



OUTDOOR
LIGHTING

simon

LIGHT UP EMOTIONS

Emotions are what transforms a space into a specific place.

At Simon we know that spaces are the centre of all our experiences, and being able to fill them with nuances and different intensities is vital for us to fully enjoy spaces instead of just living in them.

This publication brings together a portfolio of solutions that allow light to be integrated into outdoor environments to create unique spaces adapted to people's needs.



INNOVATION AND DESIGN

After more than 100 years of history, we have built up a solid industrial know-how and international presence thanks to two key elements: R&D and design.

Design is an essential part of our products. Attractive designs that are reliable and durable, making them easier to use and install, and simplifying their recycling process. And paying attention to design has won us international awards like the IF Design Award, Reddot Award, X Plus Award, Delta Awards...

Constantly innovating and applying the latest people-focused technologies allows us to transform all the knowledge and experience we've gained into long-lasting, unique solutions.



ADVICE FOR YOUR PROJECTS

We work with everyone involved in lighting projects, in both public and private spaces, offering personalized consulting in all phases of the process, from the creative and design phase to installation and start-up.

We work in outdoor environment lighting. From small towns to large cities, in their buildings, façades, gardens, patios, streets, pedestrian areas, squares, parks, walking and bike paths, highways, tunnels...

Our complete knowledge of the current regulations, as well as applied light technology, allows us to advise and inspire lighting professionals.



FEEL THE OUTDOORS

We walk, stroll, drive, play sports, rest, play, work, relate to each other... in short, live and enjoy many experiences outdoors.

Lighting in outdoor spaces must be adjusted to the needs of the people who will be enjoying them, regardless of the day, season, use or activity.

We propose environments with customized lighting that inspires moods, highlights architecture and creates unique environments, generating atmospheres of well-being.



LIGHT FOR...

We offer designers tools that address outdoor lighting needs, both public and private spaces, to create attractive, comfortable, safe and sustainable environments.

Light to highlight architecture and outdoor landscapes so that the community, managers, designers, technicians, installers or planners can enjoy the lighting as professionals and as people who use the space.

ROAD LIGHTING

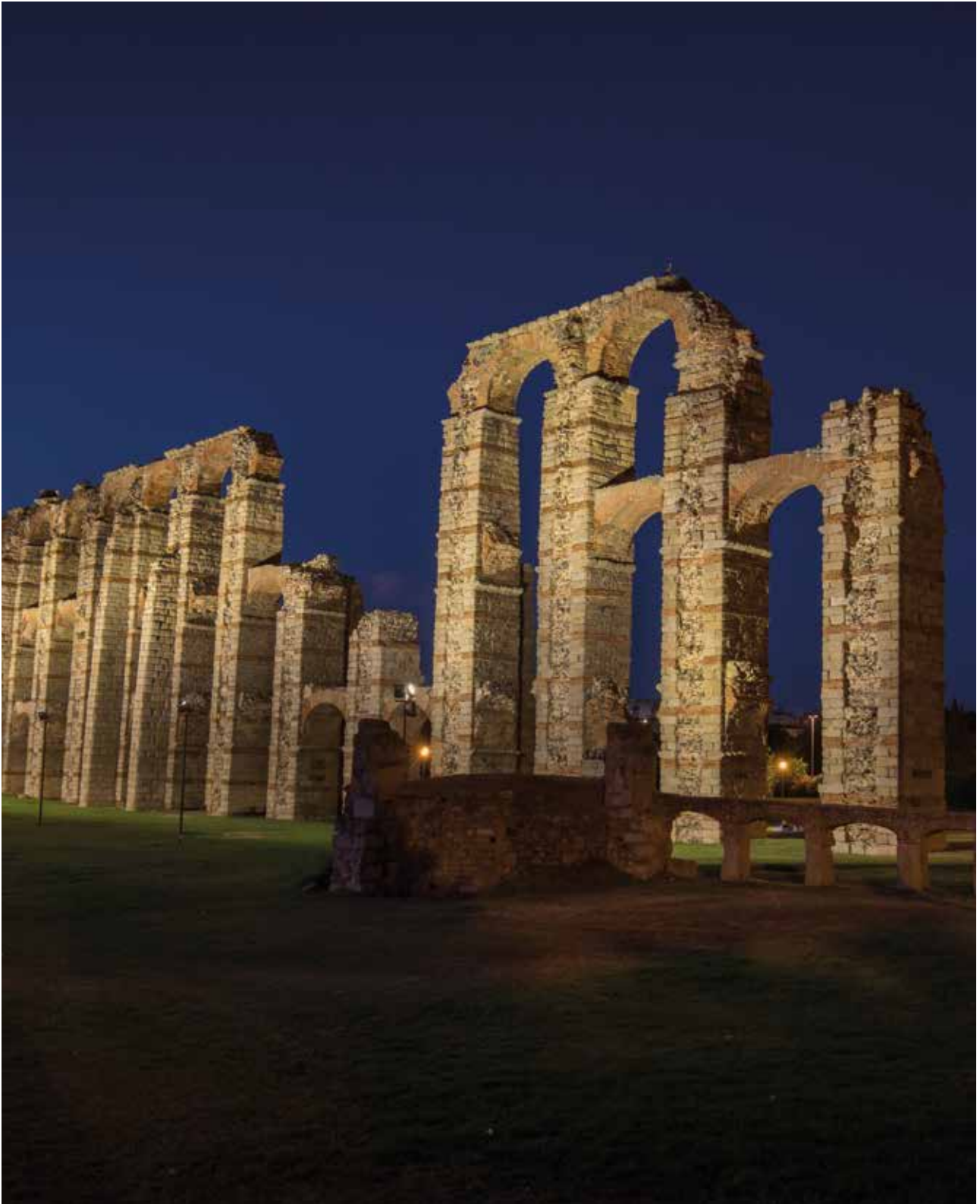
Light to promote the safety, sustainability and functionality required for vehicles and people to move around on any type of road.



URBAN LIGHTING

Light to embellish and humanise the city, helping create its light identity and shape the urban space.

LIGHT FOR...



SPOTLIGHT

Directed light that creates the perfect effect and sets the scene, highlighting the architectural elements we want to emphasise.



SIGNALLING AND BEACON

Light to guide and direct users through the space.

Light to create atmospheres and landscapes, while protecting the night sky from light pollution.

THE CITY'S IDENTITY

Lighting is one of the biggest determining factors for modelling different areas in the urban space.

Our solutions are integrated into the urban morphology, adapting to its constant evolution, participating in creating the city's identity, reflecting its values and allowing it to differentiate itself and highlight what's attractive about it, improving the environment and the inhabitants' quality of life.





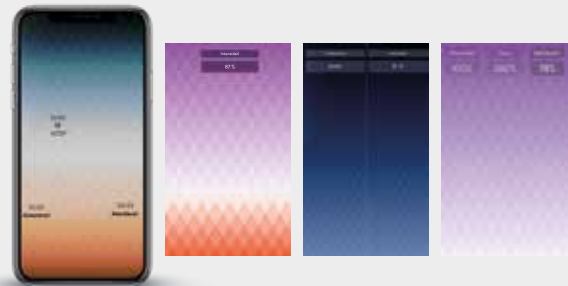
PRECISE LIGHT CONTROL

Lighting control allows us to personalize and adapt the light according to users' needs, the time of day, the amount of natural light, the desired experience, the atmosphere we want to create, the emotion we want to be felt...and also to achieve energy savings by being able to manage energy efficiently, using only the amount of light necessary.



Scena is Simon's professional solution for controlling and dimming light, allowing the integration of all customisable functions and the incorporation of new features for creating emotions. You can create unlimited effects by adjusting and configuring all the shades of light, including colour temperature, intensity and saturation, and create or predefine static or dynamic lighting scenes.

Simon's control solutions adapt to all kinds of spaces and allow intuitive interaction through multiple interfaces or the Simon smartphone app, so it works for all kinds of users and use cases.



DIGITAL LIGHT: CONNECTED SMART CITIES

Simon luminaires allow for easy and simple smart lighting control.

With our systems you will be able to manage your lighting network to achieve maximum efficiency and energy savings.

Technology lets us connect urban spaces with people.

Smart sensors, intensity regulation systems... automatically adapt light to the real needs of every space, based on pre-established factors, such as presence detection, the time of day or the weather.



ISTANIUM LED TECHNOLOGY

High-performance Istanium LED technology provides high-quality LED light and makes our solutions environmentally friendly and people friendly, by ensuring lighting quality over time.

PRECISE LIGHT FLUX CONTROL

A special optic design allows for precise light flux control, reducing upward light pollution as much as possible.

Our optic systems focus light in the desired area by directing the light flux wherever it is needed.

ENERGY EFFICIENCY

The combination of the number of LEDs, the adjusted supply current and the various dimming protocols allow each luminaire's consumption to be precisely modulated, resulting in an energy-efficient installation.

LIGHT FLUX STABILITY

We minimise annoying glare to provide people with greater visual comfort without sacrificing adequate lighting levels.

VISUAL COMFORT

Istanium LEDs maintain the light flux while ensuring uniform start levels throughout a luminaire's service life. We offer a full optic portfolio for all types of projects.



GUARANTEED PERFORMANCE AND TRACEABILITY: ENEC / ENEC+



Simon has various production centres around the world, equipped with advanced measurement systems that allow us to perform demanding tests and checks, during both the development and production phases, which guarantees the quality of all our products.

The main ranges within our portfolio have achieved the ENEC / ENEC+ certification. This seal requires the manufacturer to verify the proper operation of 100% of the production process, perform a full visual inspection, and measure and record certain electrical parameters.

WHY ENEC / ENEC+?

- The ENEC / ENEC+ certification is a symbol of product quality and safety, backed by an independent third party.
- The certification is recognised by public and private organisations.
- The manufacturer voluntarily submits its product to full testing by independent organisations and specialists in order to objectively ensure that the product meets established quality requirements. This includes complying with corresponding standards and being subject to periodic production centre inspections.
- All luminaires produced under ENEC / ENEC+ certification have a unique serial number for traceability.
- For more information, see www.aenor.es

WHAT CHECKS ARE PERFORMED FOR ENEC?

- Visual inspection of entire production process.
- Operating test.
- Ground continuity test.
- Dielectric strength or insulation test.

WHAT DOES ENEC+ INVOLVE?

- Power cannot exceed 10% of that declared by the manufacturer.
- Initial light flux cannot be less than 90% of that declared by the manufacturer.
- CTT colour temperature and CRI Colour Rendering Index are not different to those reported by the manufacturer.



COLOUR CHART

Simon's colour chart was created to visually integrate our luminaires and poles into the environment and day-time landscapes.

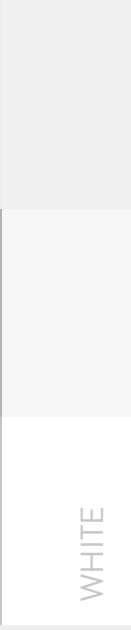
The colour of our products can be customized to adapt to all types of spaces and aesthetic requirements.

We also offer the possibility of applying any other colour from the classic RAL chart.

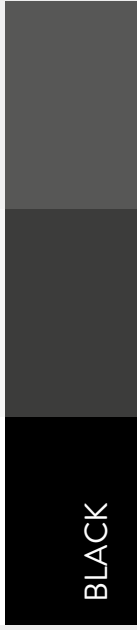
URBAN COLOURS



GREY



WHITE



BLACK



TERRAN



GARDEN



MARINE



PROTECTIVE ELEMENTS THAT LAST AND RESIST

The coatings on our luminaires and supports adequately integrate into any environment and maintain their quality and durability over time, protecting them from corrosion caused by bad weather and the passage of time.

Simon manufactures its poles and supports according to the specifications of the EU Construction Products Regulation No. 305/2011 and UNE-EN 40-5:2003 standard, with AENOR-certified constancy of performance.



FINISHES

GALVANISED

The galvanising process protects steel from corrosion. The hot-dip galvanising process consists of inserting steel parts into molten zinc at an approximate temperature of 450 °C, until a thick enough coating is achieved for the piece, based on the UNE EN ISO 1461 standard.

STANDARD PAINT

The painting process consists of applying a coat of paint with polyester powder resins to the surface of the previously treated support, in a continuous layer with uniform thickness. The application process is divided into different stages: surface preparation, pre-treatment with chemical action, oven drying, paint application and polymerisation to reticulate the powder paint in 3D. The painting process for the luminaires is similar to that described, except the base surface is aluminium.

SEAFRONT AND MARINE PAINT

Protection against extremely corrosive environments is used when poles are exposed to extreme environmental conditions classified as C5M-grade according to ISO Standard 12994 (marine paint). This coating is used to resist corrosion in various settings: exposure to harsh environments, on buried or submerged structures, etc. The organic coating contains anticorrosive pigments that actively protect the metallic substrate, serving as a protective barrier against water, oxygen and ions. The application process is divided into different stages: surface preparation, pre-treatment with chemical action, oven drying, primer application, oven drying, paint application and polymerisation to reticulate the powder paint in 3D. We offer a painting process for seafront luminaires.

SPECIAL PROTECTION FOR POLES



DRAW-LESS

This is an additional anti-graffiti coating. The Draw-less treatment provides a smooth and transparent finish.



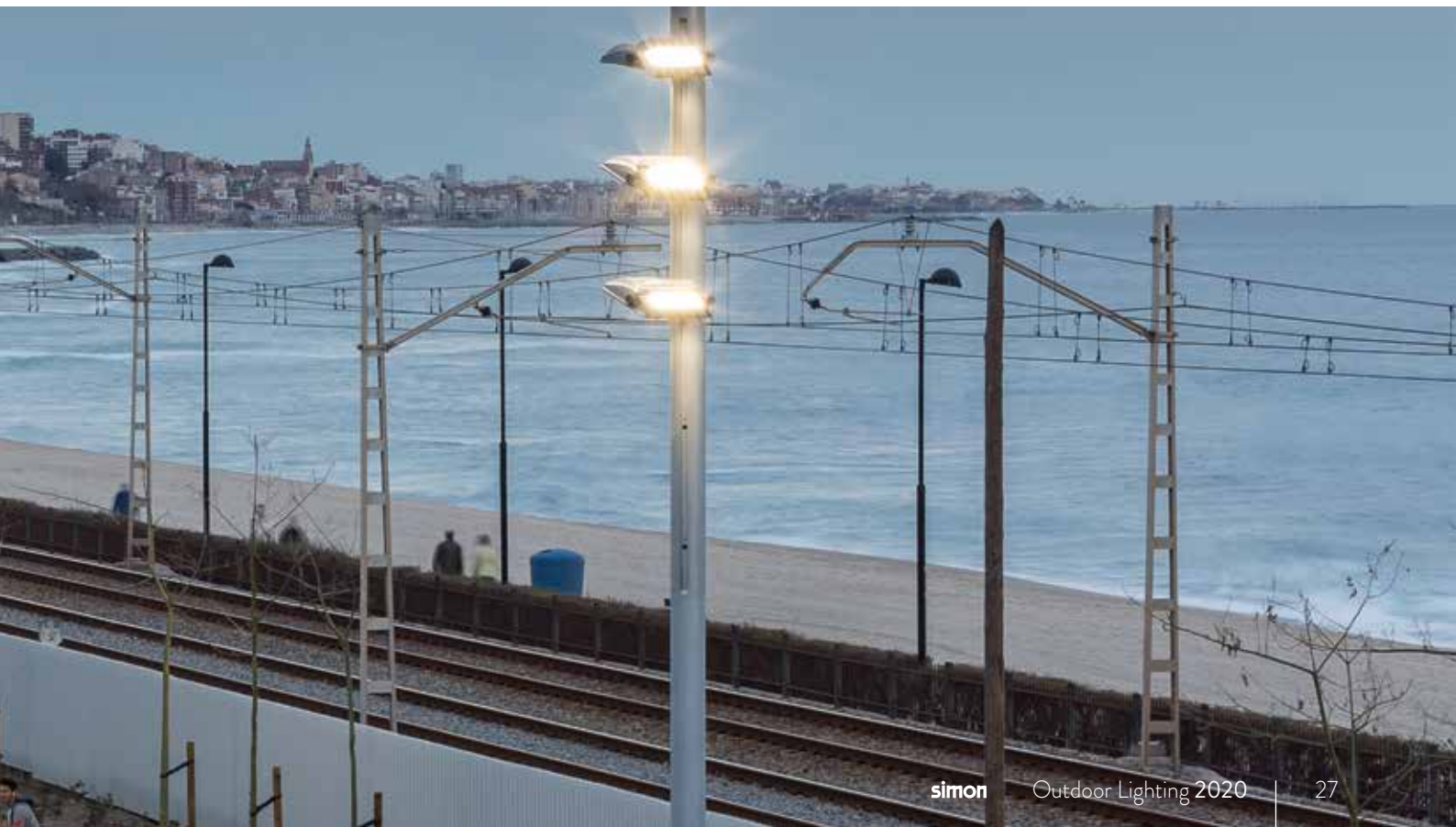
ACID-LESS

The anti-acid coating is a synthetic thermoplastic polyamide powder that is applied to the base of supports to improve their resistance to corrosion, knocks, scratches, wear, abrasion, chemical agents and solvents.



STICK-LESS

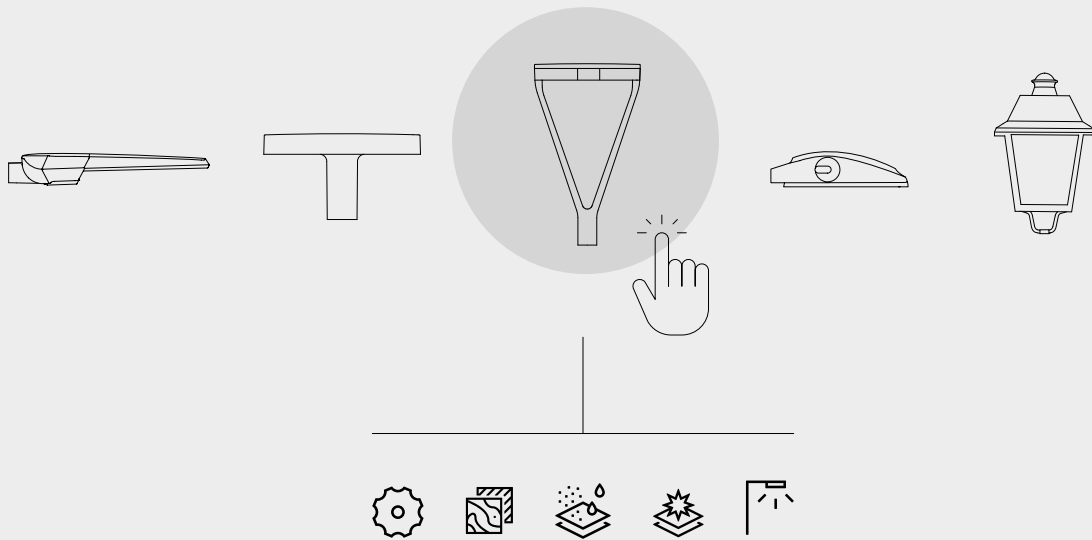
This is an additional anti-adhesive coating. The Stick-less treatment provides a coarse and satin finish.



LIGHT À LA CARTE CUSTOMIZED LUMINAIRES

Our solutions can be configured, offering several different customized lighting options with the same appearance.

Based on the various elements that every model is constructed upon, you will have the opportunity to choose among different options: the optics type, light engine type, light colour temperature, finish type... to create personalized luminaires adapted to your project's specific needs.



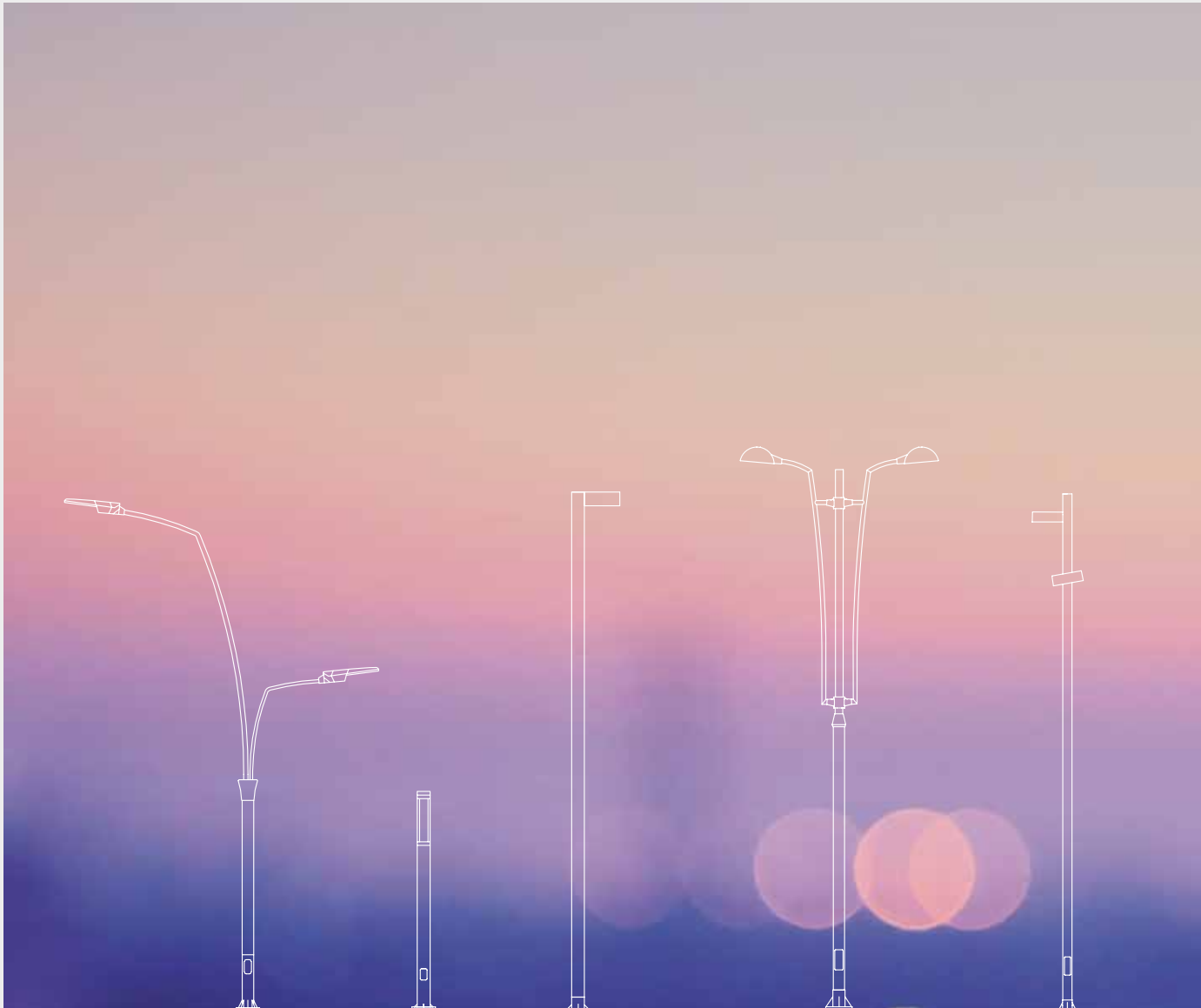
MERAK SYF

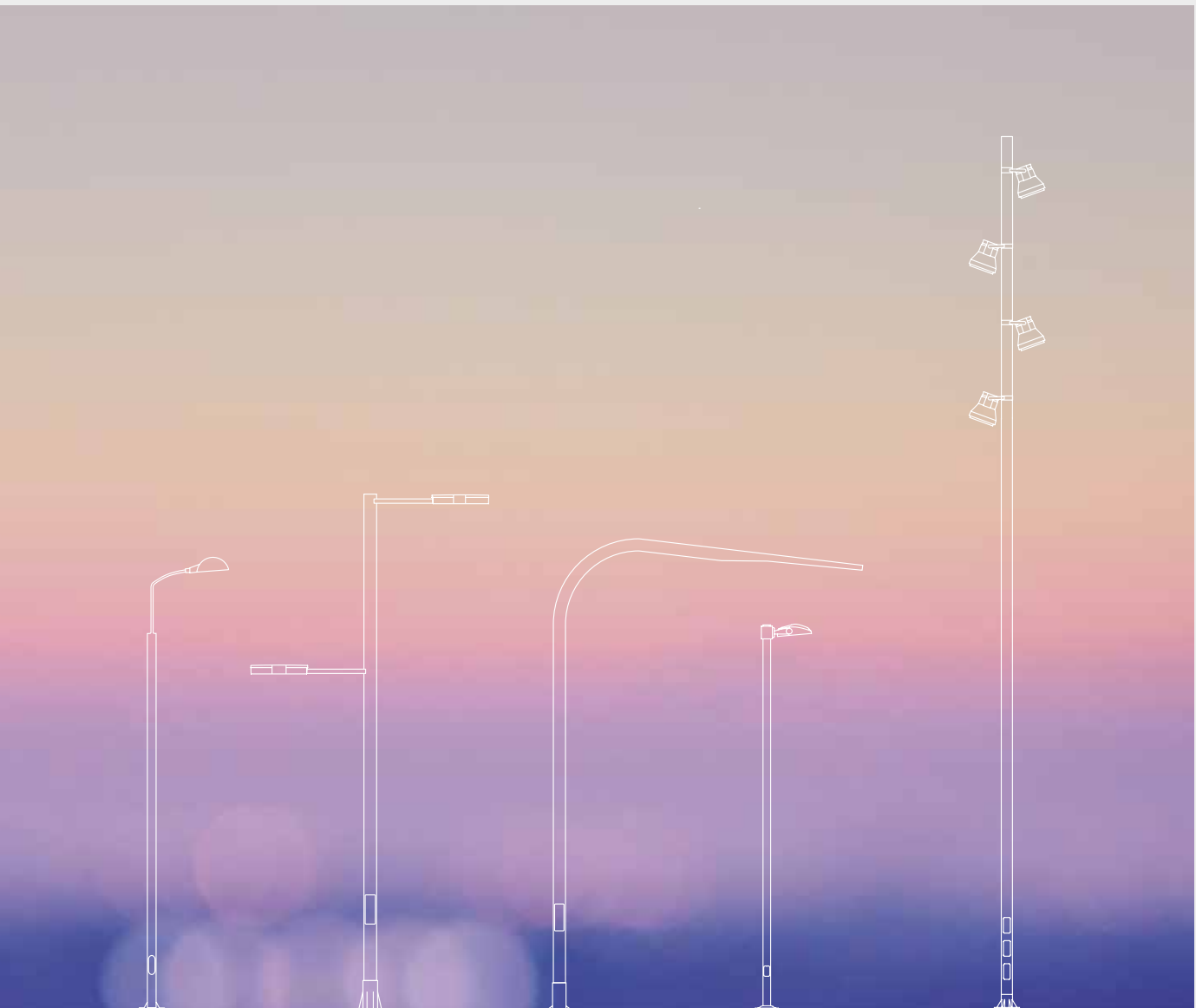


reddot award 2018
winner

PRODUCT CONFIGURATOR

The various options allow you to select the appropriate solution for each application, offering maximum flexibility. Choose from various functional parameters, like photometric distribution, supply current, performance, etc.





INDEX OF
URBAN
 ISTANIUM[®]



ROAD

NATH
 S / M / L
 P.45



ALTAIR
 IXF
 P.67



MERAK
 SXF
 P.77



LIGHTS

ALTAIR
 IYF
 P.89



MERAK
 SYF
 P.99



SKAT
 S / M
 NEW
 P.109



ALYA
 P.125



MIZAR
 P.133



HYDRA
 P.141



KUMA
 P.147



CLASSIC

PRAGA
 M PRO /
 M BASIC / S FC6
 P.159



BERLIN
 P.179



BORA
 P.187





SPOTLIGHT

KOS
NEW
P.197



FOGO
RGB
P.205



DEMON
S / M
P.217



MILOS
S / M
P.225



LORE
P.241



LOREGON
P.249



IRIS LED
P.255



SIGNALLING AND BEACON

JR1
P.265



NYX
P.269



SU
2 / 3
P.273

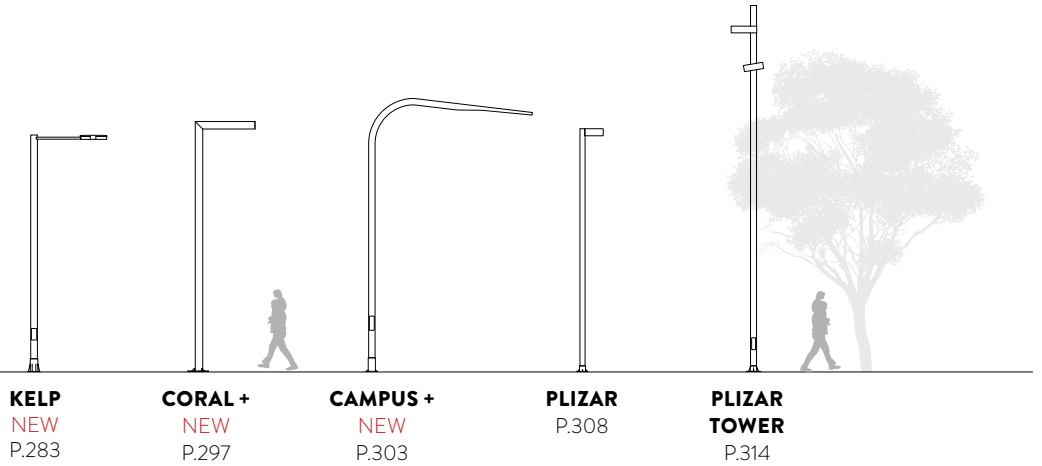


SU
7
P.277

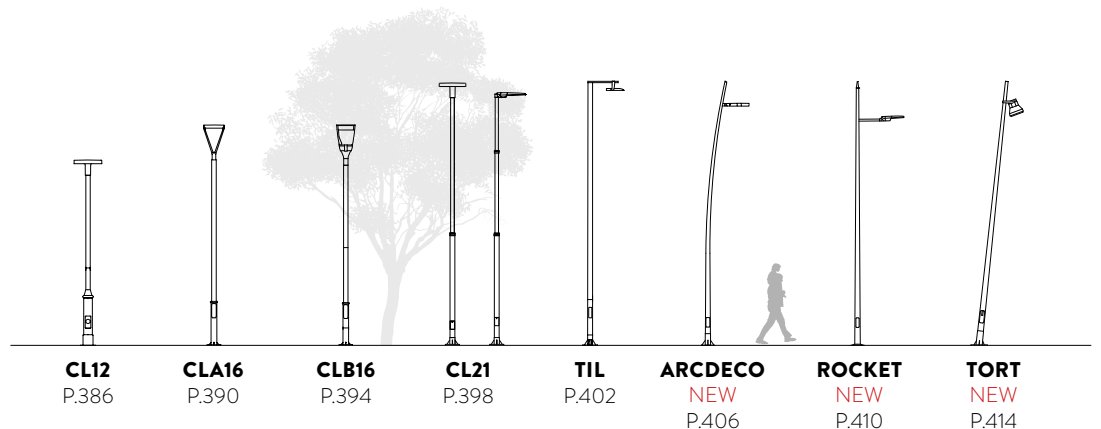
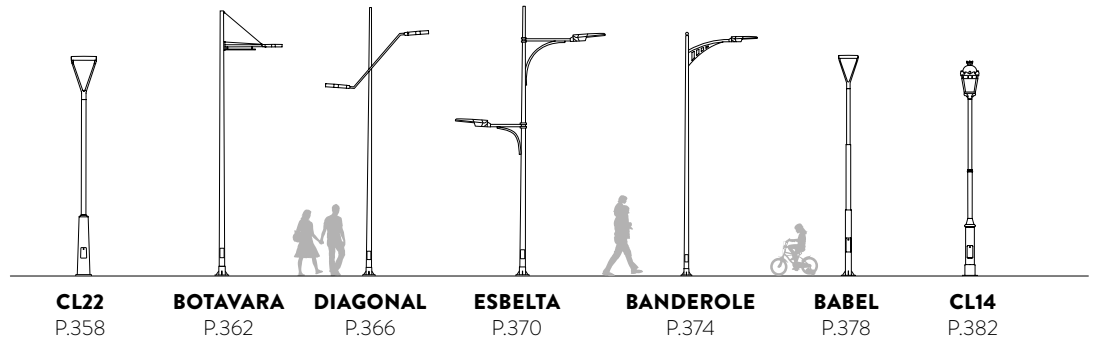
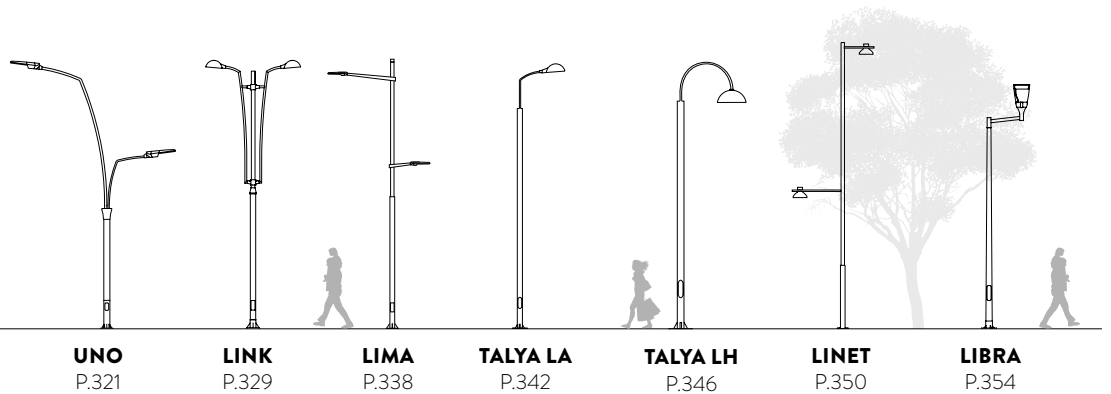


INDEX OF POLES AND LIGHTING POINTS

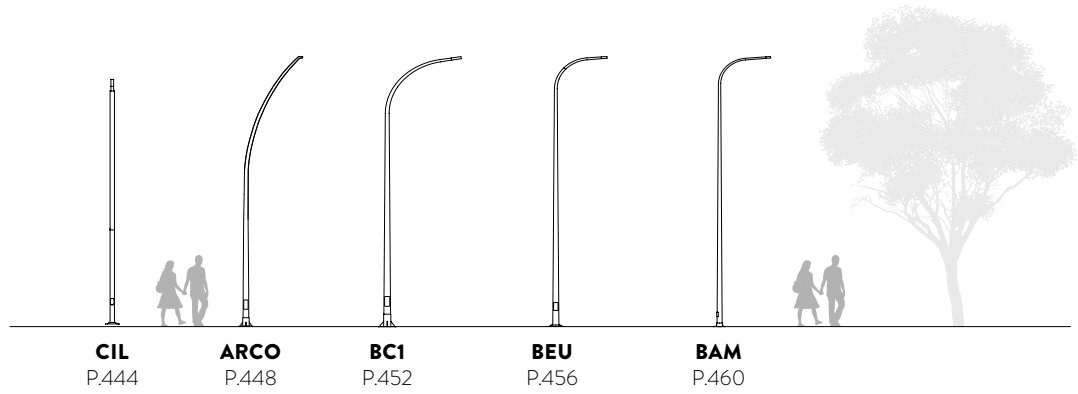
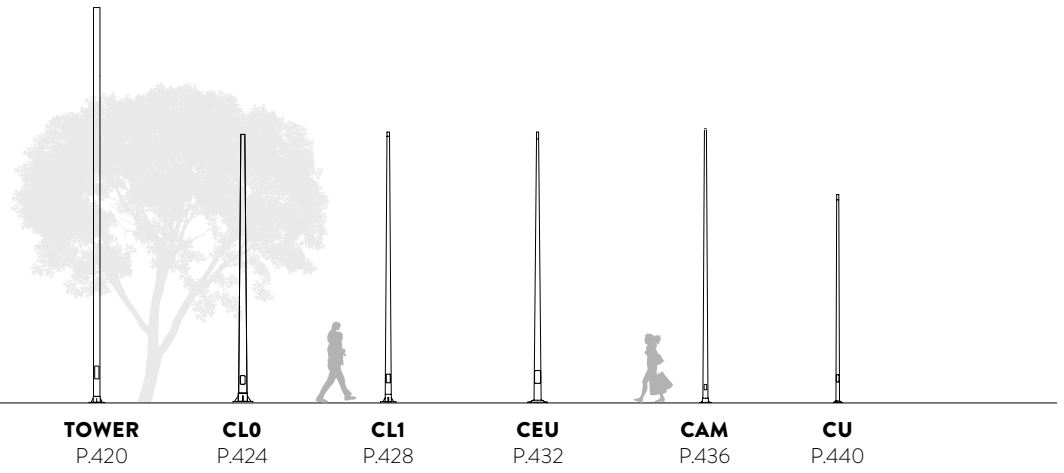
LIGHTING POINTS



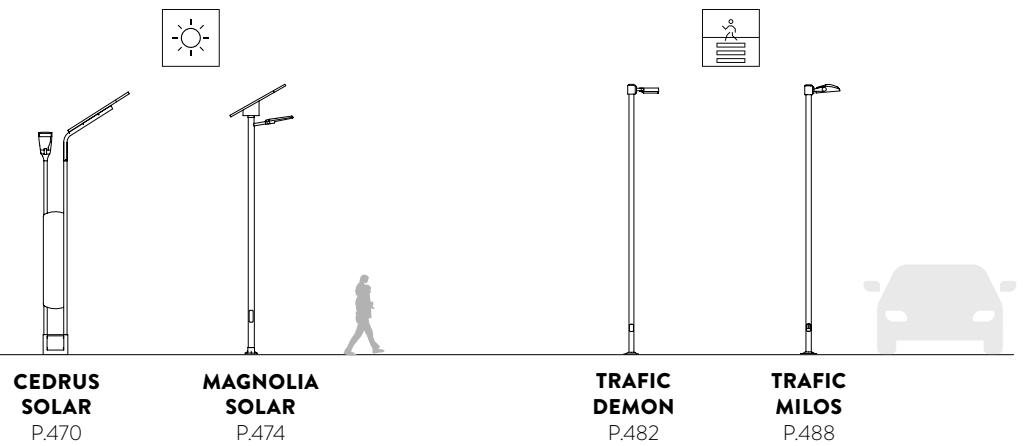
DECORATIVE POLES



FUNCTIONAL POLES



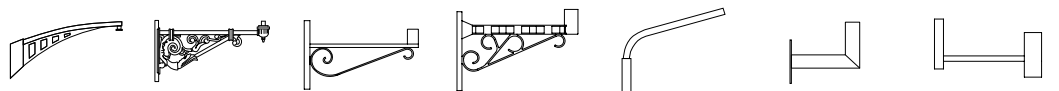
CUSTOM SOLUTIONS



ARMS AND OTHER ACCESSORIES

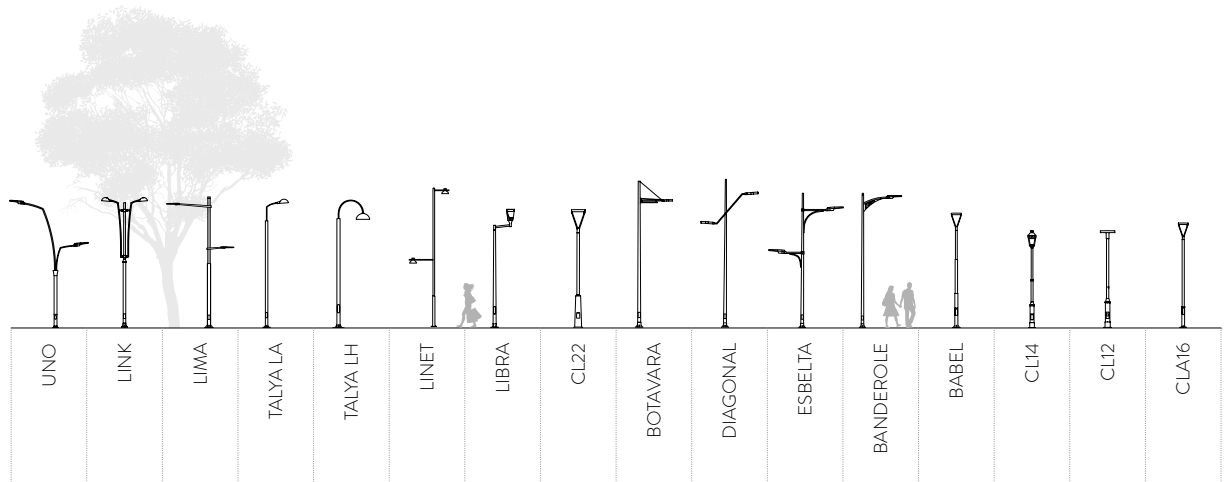


ALF1 P.496 **ALF2** P.498 **ALF3** P.499 **CROSSPIECES** P.500 **CR1** P.501 **CR2** P.502 **CR3** P.503



BM1 P.504 **BM13** P.505 **BM10** P.506 **BM11** P.507 **BM2** P.508 **BM5** P.509 **BM9** P.509

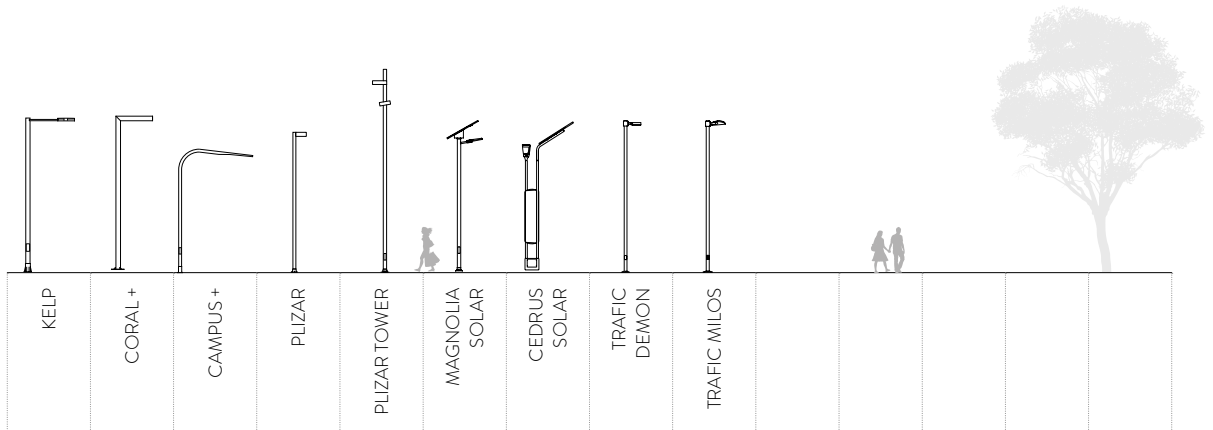
LUMINAIRE INDEX ACCORDING TO POLE TYPE



	UNO	LINK	LIMA	TALYA LA	TALYA LH	LINET	LIBRA	CL22	BOTAVARA	DIAGONAL	ESBELTA	BANDEROLE	BABEL	CLI4	CLI2	CL416
NATH S	●	●	●	●			●		●	●	●	●				
NATH M	●	●	●	●			●		●	●	●	●				
NATH L	●	●	●	●			●		●	●	●	●				
ALTAIR IXF	●	●	●	●			●	●	●	●	●	●				●
MERAK SXF	●	●	●	●			●	●	●	●	●	●				●
ALTAIR IYF							●	●					●	●	●	●
MERAK SYF							●	●					●	●	●	●
SKAT S / M							●						●	●	●	●
ALYA	●	●	●	●	●			●	●	●	●	●				
MIZAR																
HYDRA							●						●	●	●	●
KUMA	Specific luminaire included															
PRAGA M PRO		●						●	●		●	●		●	●	
PRAGA M BASIC								●						●	●	
PRAGA S FC6														●	●	
BERLIN								●						●	●	
BORA		●			●				●		●	●				
KOS																
FOGO																
DEMON																
MILOS S																
MILOS M																
LORE						●										
LOREGON	Poleless luminaire															
IRIS LED	Poleless luminaire															

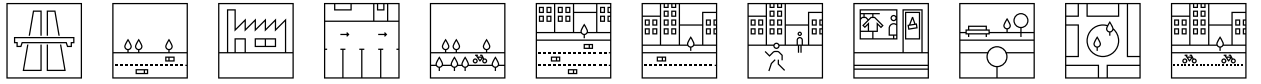
CLB16	CLZ1	TIL	ARCDECO	ROCKET	TORT	TOWER	CL1	CEU	CAM	CU	CIL	ARCO	BC1	BEU	BAM	
	●		●	●			●	●	●	●	●	●	●	●	●	NATH S
	●		●	●			●	●	●	●	●	●	●	●	●	NATH M
	●		●	●			●	●	●	●	●	●	●	●	●	NATH L
●	●		●	●			●	●	●	●	●	●	●	●	●	ALTAIR IXF
●	●		●	●			●	●	●	●	●	●	●	●	●	MERAK SXF
●							●	●	●	●	●					ALTAIR IYF
●							●	●	●	●	●					MERAK SYF
●							●	●	●	●	●					SKAT
			●	●								●	●	●	●	ALYA
																MIZAR
●								●	●	●	●					HYDRA
																KUMA
																PRAGA M PRO
																PRAGA M BASIC
																PRAGA S FC6
																BERLIN
																BORA
		●			●	●										KOS
		●			●	●										FOGO
		●			●	●										DEMON
		●			●	●										MILOS S
		●			●	●										MILOS M
		●			●	●										LORE
																LOREGON
																IRIS LED

LUMINAIRE INDEX ACCORDING TO TYPE OF LIGHTING POINTS AND CUSTOM SOLUTIONS



	KELP	CORAL +	CAMPUS +	PLIZAR	PLIZAR TOWER	MAGNOLIA SOLAR	CEDRUS SOLAR	TRAFIC DEMON	TRAFIC MILOS										
NATH S						●	●												
NATH M						●													
NATH L																			
ALTAIR IXF	●																		
MERAK SXF	●																		
ALTAIR IYF																			
MERAK SYF																			
SKAT S / M																			
ALYA																			
MIZAR				●	●														
HYDRA							●												
KUMA																			
PRAGA M PRO																			
PRAGA M BASIC																			
PRAGA S FC6																			
BERLIN																			
BORA																			
KOS					●														
FOGO					●														
DEMON					●	●	●	●											
MILOS S					●	●	●			●									
MILOS M					●					●									
LORE					●														
LOREGON	Poleless luminaire																		
IRIS LED	Poleless luminaire																		

INDEX ACCORDING TO LUMINAIRE APPLICATION



	MOTORWAY / HIGHWAYS	MAIN ROADS	INDUSTRIAL SPACES	PARKING AREAS	GREEN TRAILS	AVENUES	STREET	PEDESTRIAN STREET	COMMERCIAL AREAS	PARK / GARDEN	SQUARES	URBAN CYCLE PATH
--	---------------------	------------	-------------------	---------------	--------------	---------	--------	-------------------	------------------	---------------	---------	------------------

NATH S	●	●	●	●	●	●	●	●	●			●
NATH M	●	●	●	●		●	●		●			●
NATH L	●		●	●		●						
ALTAIR IXF				●			●	●	●	●	●	
MERAK SXF				●		●	●	●	●	●	●	
ALTAIR IYF							●	●	●	●	●	
MERAK SYF							●	●	●	●	●	
SKAT							●	●	●	●	●	
ALYA				●		●	●	●	●	●	●	
MIZAR				●		●	●	●	●	●	●	
HYDRA							●	●	●	●	●	
KUMA							●	●	●	●	●	
PRAGA M PRO						●	●	●	●	●	●	
PRAGA M BASIC						●	●	●	●	●	●	
PRAGA S FC6							●	●	●	●	●	
BERLIN						●	●	●	●	●	●	
BORA						●	●	●	●	●	●	
KOS												
FOGO				●			●	●	●	●	●	●
DEMON		●	●	●	●		●	●	●	●	●	●
MILOS S		●	●	●	●		●	●	●	●	●	●
MILOS M		●	●	●	●	●	●	●	●	●	●	●
LORE				●	●	●	●	●	●	●	●	●
LOREGON			●	●	●	●	●	●	●	●	●	●
IRIS LED												
JR1												
NYX												
SU												
CEDRUS		●		●		●		●		●	●	
MAGNOLIA		●		●	●	●		●		●	●	●
TRAFIC DEMON						●			●			
TRAFIC MILOS						●			●			
KELP				●		●	●	●	●	●	●	
CORAL +							●	●	●	●	●	
CAMPUS +							●	●	●	●	●	
PLIZAR				●		●	●	●	●	●	●	
PLIZAR TOWER				●		●	●	●	●	●	●	



ROUNDABOUTS / INTERSECTIONS	ZEBRA CROSSING	TUNNEL	UNDERPASSES	MONUMENTS	BRIDGE	FAÇADE	SPORTS FACILITIES	LARGE AREA	SIGNALLING	SUBMERSIBLE	
●											NATH S
●											NATH M
●								●			NATH L
●											ALTAIR IXF
●											MERAK SXF
●											ALTAIR IYF
●											MERAK SYF
											SKAT
●											ALYA
●											MIZAR
											HYDRA
											KUMA
											PRAGA M PRO
											PRAGA M BASIC
											PRAGA S FC6
											BERLIN
											BORA
		●		●	●	●	●	●			KOS
●				●	●	●		●			FOGO
●	●	●	●	●	●	●					DEMON
●		●		●	●	●					MILOS S
●	●	●	●	●	●	●	●	●			MILOS M
●				●				●			LORE
●											LOREGON
				●	●	●			●		IRIS LED
									●		JR1
				●							NYX
										●	SU
●											CEDRUS
●											MAGNOLIA
	●										TRAFIC DEMON
	●										TRAFIC MILOS
●								●			KELP
●											CORAL +
●											CAMPUS +
●											PLIZAR
●											PLIZAR TOWER



LUMINAIRES
ROAD LIGHTS
ISTANIUM^{LED}

NATH
S/M/L



ALTAIR
IXF



MERAK
SXF



Simon's comprehensive high-performance road lighting solution, with an innovative design and an advanced thermal dissipation system and multiple lighting distributions to complete highly efficient and precise lighting projects.





NATH

S / M / L

ISTANIUM^{LED}®

Functional road light luminaire,
ideal for the intensive
introduction of LED technology

The aim of Simon's NATH Istanium^{LED} collection is
to provide necessary public lighting with
maximum energy efficiency.

Light flux greater than 34,200^{lm}
Savings up to 65%
Efficiency up to 152^{lm/W}
Advanced thermal management



Motorways /
highways
S / M / L



Main roads
S / M



Industrial spaces
S / M / L



Parking areas
S / M / L



Green trails
S



Avenues
S / M / L



Streets
S / M



Pedestrian streets
S



Commercial areas
S / M



Urban
cycle paths
S / M



Roundabouts /
Intersections
S / M / L



Large areas
L

NATH FEATURES

COLLECTION



Size S



Size M



Size L

ATTRIBUTES (NATH S / L MODELS ONLY)



Tool-free opening

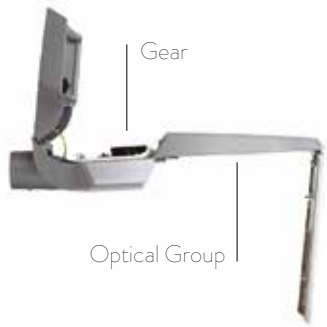
Optional automatic disconnection

Cooling system without visible dissipation fins



Built-in level

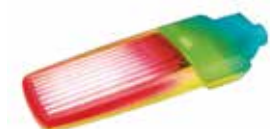
The gear and the LED light group are housed in a single body with two individual compartments



Gear

Optical Group

ADVANCED DESIGN



New refrigeration system with fins that cannot be seen from below, which increases LED performance at high supply currents.



Replacement and update of Istanium® LED lighting groups while the luminaire is installed, extending its service life. Numerous different lighting packages are available, thanks to its modular LED system.



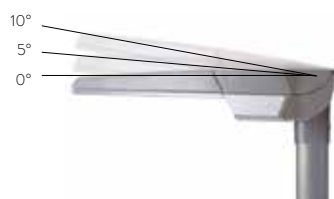
Self-cleaning system using rain water. The water escapes without dirtying the luminaire and lighting performance is not affected over time.

LATERAL FASTENING SYSTEM



Arm lateral fastening accessory from 48 mm to 60 mm.

POST-TOP FASTENING SYSTEM





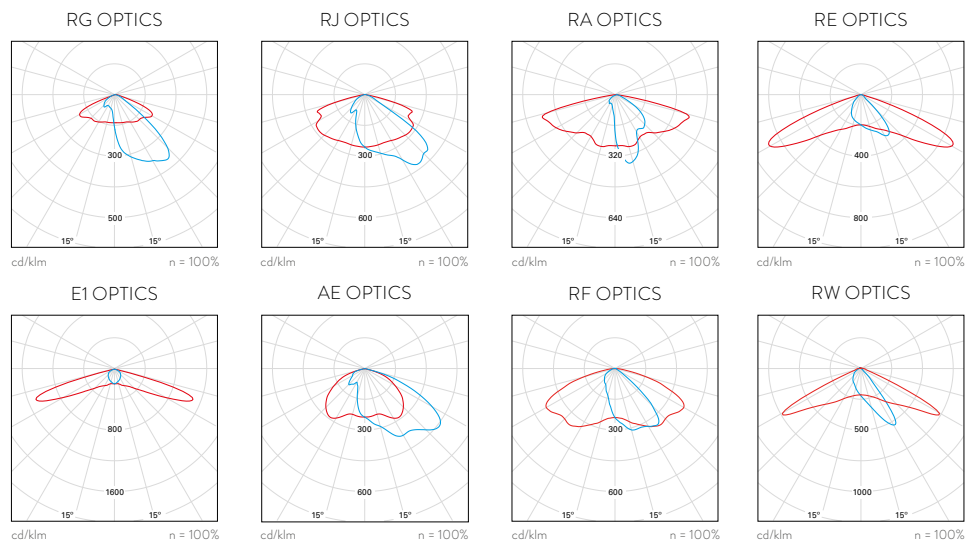
NATH S

ISTANIUM[®]

ROAD LIGHT LED LUMINAIRE

IP66 IP65	IK08 IK09 IK10	Min. 6 Kg	Max. 6.6 Kg

COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **NATH LED** luminaire, size **S**, made of die-cast aluminium. Adjustable lateral fastening from -5° to $+10^{\circ}$ and adjustable post-top fastening from 0° to $+10^{\circ}$ by changing the piece's position.

Adaptation to fastenings from $\varnothing 34$ mm to $\varnothing 76$ mm depending on the adaptor, with negative compensation on poles and wall arms.

Flat cover with non-visible cooling fins in installed position. Self-cleaning system by means of rainwater, which allows its correct evacuation without dirtying the luminaire, preventing the lighting performance from being affected over time. Single body luminaire with two independent volumes of thermal separation for optical group and for electrical group, with self-levelling device. Access to gear and maintenance from the top with lever opening, without tools.

Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection index for the Istanium LED optical group, with a pressure relief valve to keep the pressure constant and prevent moisture from entering, and impact resistance index from **IK08** to **IK10**.

Possibility of mounting up to eleven multi-array optics, to guarantee the homogeneity of the photometry. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

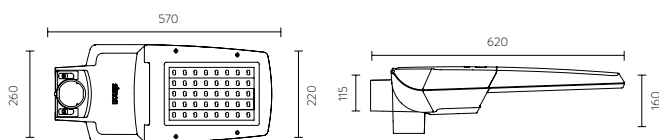
With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage and **Class III** with 12 / 24V DC supply voltage. Possibility of including additional protection against surges of 10 kV/10 kA and automatic disconnection when opening the gear compartment.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GY9007 colour. Possibility of Simon and RAL chart finishes. Dimensions 570x260x160 mm.

ENEC+ certified luminaire.

DIMENSIONS AND FASTENING SYSTEMS



Lateral fastening	$\varnothing 60$ mm, 100 mm long, -5° , 0° , $+5^{\circ}$, $+10^{\circ}$ inclination Optional accessory 50-73277, $\varnothing 48$ mm, 100 mm long, -5° , 0° , $+5^{\circ}$, $+10^{\circ}$ inclination
Post-top fastening	$\varnothing 60$ mm, 100 mm long, 0° , $+5^{\circ}$, $+10^{\circ}$ inclination
Surface exposed to the wind	0.047 m ²
Weight	Max. 6.6 kg Min. 6 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66 / IP65
IK	From IK08 to IK10
Body	Die-cast aluminium
Closure system	Stainless steel lever, tool-free opening
Fastening system	Die-cast aluminium
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
Closure	Stainless steel

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of $\pm 7\%$. **** 800 mA

ELECTRICAL PARAMETERS *

Temp.	$-20^{\circ}\text{C} \dots +35^{\circ}\text{C}$
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol

	Luminaires supplied by electrical grid	Luminaires supplied by sunlight		
Supply voltage	220-240V AC	12/24V DC		
Frequency	50 / 60 Hz	-		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)	-		
Power factor (cos φ at max. charge)	≥ 0.95	-		
Luminaire electrical protection	Class I or Class II	Class III		
Power according to models***	16 LEDs	24 LEDs	32 LED	40 LEDs
Supply current				
HIGH EFFICIENCY	16 W	24 W	31W	39 W
HIGH BALANCE	24 W	36 W	47W	60W
HIGH FLUX	32 W	49 W	63W	81W
VERY HIGH FLUX	50W	75W	94W	94W****



CONFIGURE YOUR NATH S LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
NATSXF										Simon NATH Istanium® LED, size S, Ø60 mm post-top and lateral fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser
		0								Without installation wire (0 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			E1_							1 Type Front Road Light Optics
			AE_							E Type Asymmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
				<input type="radio"/> NDL						Neutral daylight - 4,000 K
				<input type="radio"/> WDL						Warm daylight - 3,000 K
				<input type="radio"/> SDL						Soft daylight - 2,700 K
					_16W350					16 W 350 mA 2,580 lm @ 4,000K 16 LEDs
					_24W530					24 W 530 mA 3,590 lm @ 4,000K 16 LEDs
					_32W700					32 W 700 mA 4,620 lm @ 4,000K 16 LEDs
					_36W530					36 W 530 mA 5,320 lm @ 4,000K 24 LEDs*
					_47W530					47 W 530 mA 7,180 lm @ 4,000K 32 LEDs
					_49W700					49 W 700 mA 6,820 lm @ 4,000K 24 LEDs*
					_50W_1K					50 W 1,050 mA 6,290 lm @ 4,000K 16 LEDs
					_60W530					60 W 530 mA 8,560 lm @ 4,000K 40 LEDs*
					_63W700					63 W 700 mA 9,240 lm @ 4,000K 32 LEDs
					_75W_1K					75 W 1050 mA 9,130 lm @ 4,000K 24 LEDs*
					_81W700					81 W 700 mA 10,720 lm @ 4,000K 40 LEDs*
					_94W_1K					94 W 1,050 mA 12,580 lm @ 4,000K 32 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
						IA12_				Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming
							2N-_			Dimming without control line (self-dimming)
							2N+_			Dimming with control line
							1N_			Without dimming (on/off)
							CAD_			Cabinet amplitude dimming (electrical box dimmer)
							1-10			Dimming through 1.10 V input protocol
							DALI			Dimming through DALI input protocol
								C1		Class 1 Luminaire electrical protection
								C2		Class 2 Luminaire electrical protection
								C3		Class 3 (DC exclusive)
									GY9007	Standard finish in RAL GY9007
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL Classic chart colours

BASE REFERENCES

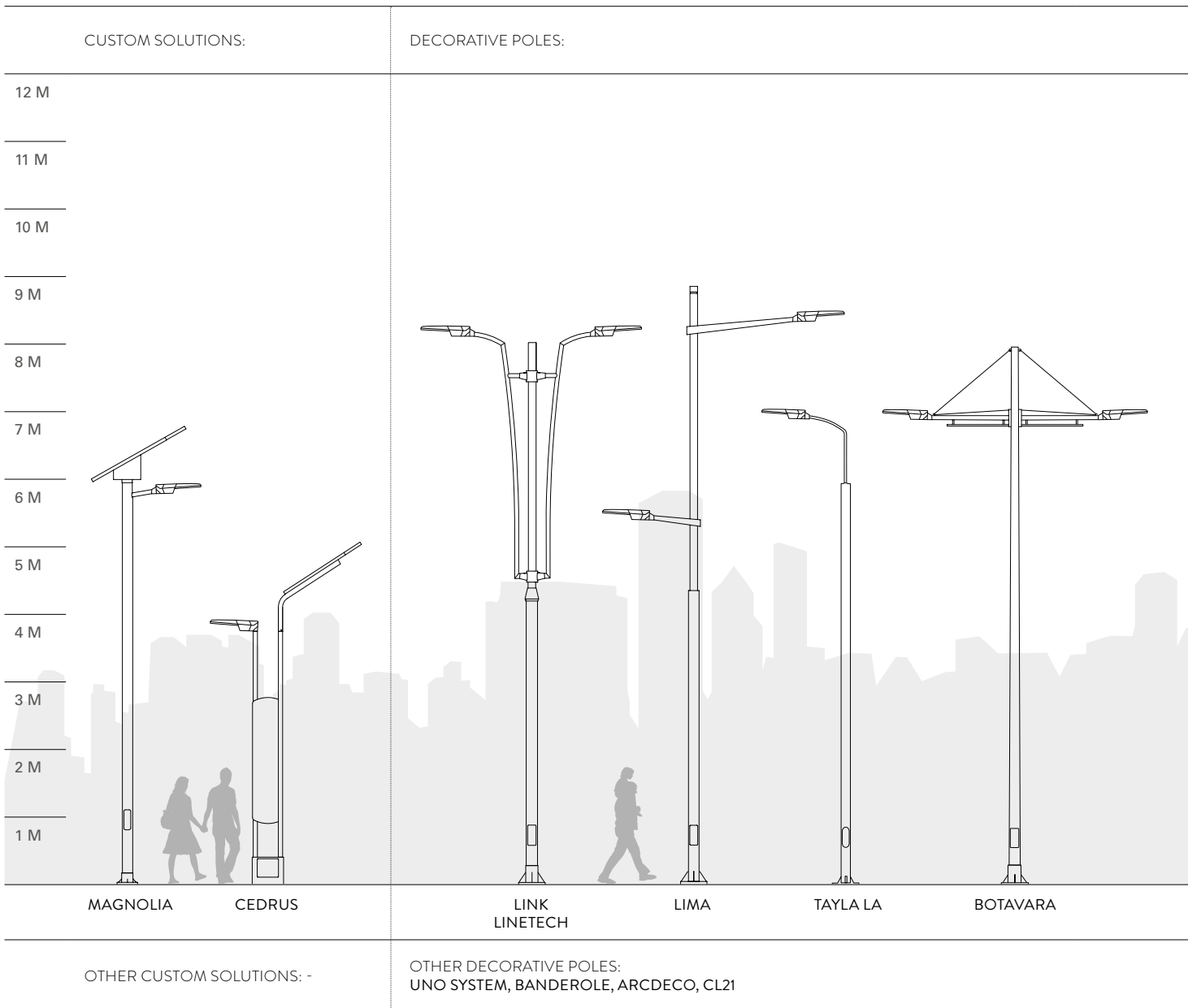
Power	No. of LEDs	Current	Configuration	Order code
16 W	16	350 mA	NATSXFGTF0RJ_NDL_16W350IA23_1N__C1GY9007	103-000222016
24 W	16	530 mA	NATSXFGTF0RJ_NDL_24W530IA23_1N__C1GY9007	103-000220016
32 W	16	700 mA	NATSXFGTF0RJ_NDL_32W700IA23_1N__C1GY9007	103-000183016
36 W	24	530 mA	NATSXFGTF0RJ_NDL_36W530IA23_1N__C1GY9007	103-000219016
47 W	32	530 mA	NATSXFGTF0RJ_NDL_47W530IA23_1N__C1GY9007	103-002727016
49 W	24	700 mA	NATSXFGTF0RJ_NDL_49W700IA23_1N__C1GY9007	103-000186016
50 W	16	1,050 mA	NATSXFGTF0RJ_NDL_50W_1KIA23_1N__C1GY9007	103-000439016
60 W	40	530 mA	NATSXFGTF0RJ_NDL_60W530IA23_1N__C1GY9007	103-000218016
63 W	32	700 mA	NATSXFGTF0RJ_NDL_63W700IA23_1N__C1GY9007	103-002729016
75 W	24	1,050 mA	NATSXFGTF0RJ_NDL_75W_1KIA23_1N__C1GY9007	103-000441016
81 W	40	700 mA	NATSXFGTF0RJ_NDL_81W700IA23_1N__C1GY9007	103-000371016
94 W	32	1,050 mA	NATSXFGTF0RJ_NDL_94W_1KIA23_1N__C1GY9007	103-002730016

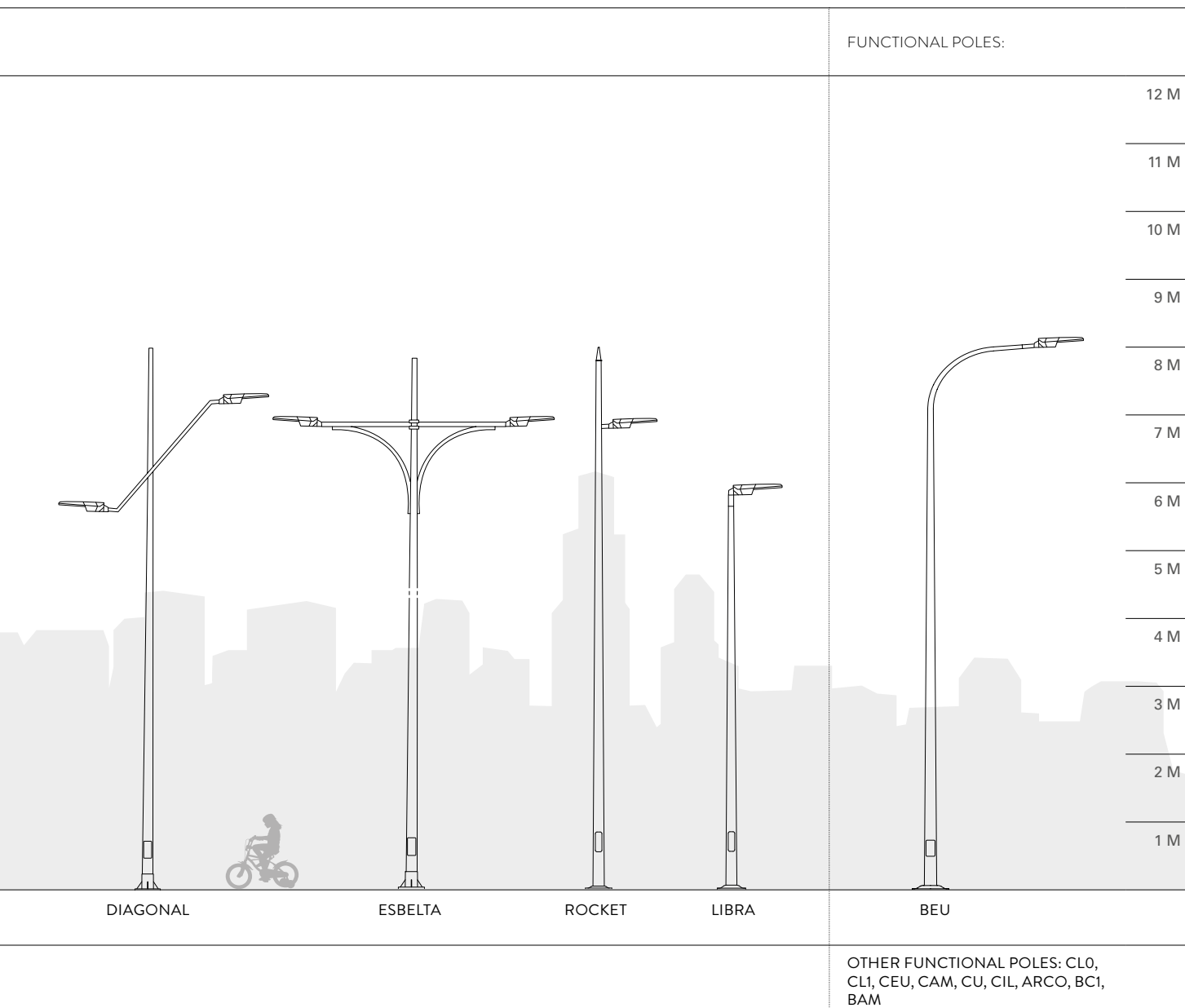
* Models available only with RJ and RE optics.

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes.
The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



COMBINE YOUR NATH S LUMINAIRE WITH:





ACCESSORIES / REPLACEMENTS

Description	Order code
 Reducing accessory for lateral fastening to Ø48 mm arm	50-73277
 Fastening accessory for Ø76 mm mount	50-88540
 Fastening accessory for Ø76 mm mount, GY9007 finish	50-88540-016
 Reducing accessory for lateral fastening to Ø42 mm arm	5-531785
 Reducing accessory for lateral fastening to Ø34 mm arm	5-531818

OTHER LUMINAIRES IN THE COLLECTION



NATH M



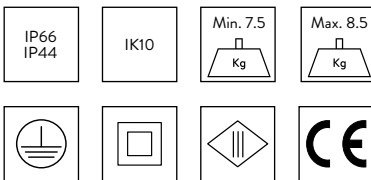
NATH L



NATH M

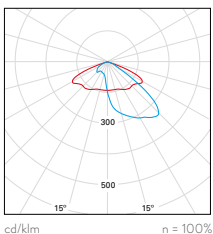
ISTANIUM[®]

ROAD LIGHT LED LUMINAIRE



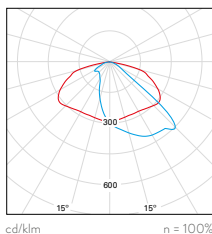
COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)
 LED DURATION (L90 B10 AT $T_a=25^\circ\text{C}$ AND $T_j=95^\circ\text{C}$): 100,000h

RG OPTICS



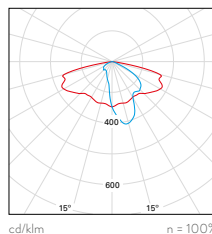
cd/klm n = 100%

RJ OPTICS



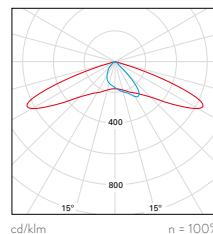
cd/klm n = 100%

RA OPTICS



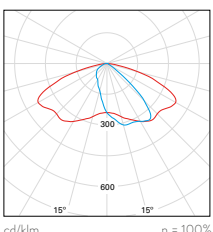
cd/klm n = 100%

RE OPTICS



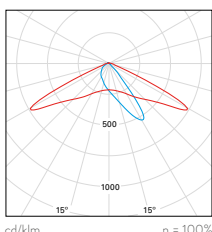
cd/klm n = 100%

RF OPTICS



cd/klm n = 100%

RW OPTICS



cd/klm n = 100%

— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **NATH LED** road light luminaire, size **M**, made of die-cast aluminium. Lateral fastening angled at 5° and post-top fastening by changing the position of the part itself.

Adaptation to fastenings from Ø34 mm to Ø76 mm depending on the adaptor.

Flat cover. Internal refrigeration system through fins. Luminaire with self-levelling device. Access to gear and maintenance from the top with lever opening, without tools.

Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection rating for the Istanium LED optical group and **IK10** impact resistance rating.

Possibility of mounting up to eleven multi-array optics. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

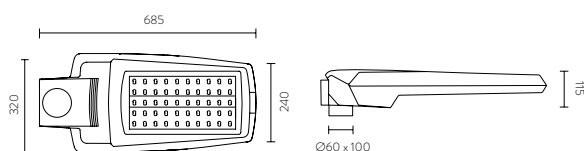
LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage and **Class III** with 12 / 24V DC supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V input, DALI or MOV movement detector. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GY9007 colour. Possibility of Simon and RAL chart finishes. Dimensions 685x115x320 mm.

DIMENSIONS AND FASTENING SYSTEMS



Lateral fastening	Ø60 mm, 100 mm long, 5° angle
Post-top fastening	Ø60 mm, 100 mm long
Surface exposed to the wind	0.05 m ²
Weight	Max. 8.5 kg Min. 7.5 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66 / IP44
IK	IK10
Body	Die-cast aluminium
Closure system	Stainless steel lever, tool-free opening
Fastening system	Die-cast aluminium
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
Closure	Stainless steel

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol MOV Pedestrian movement detection

	Luminaires supplied by electrical grid			Luminaires supplied by sunlight		
Supply voltage	220-240V AC			12/24V DC		
Frequency	50 / 60 Hz			-		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)			-		
Power factor (cos φ at max. charge)	≥ 0.95			-		
Luminaire electrical protection	Class I or Class II			Class III		
Power according to models***	12 LEDs	24 LEDs	36 LEDs	48 LEDs	60 LEDs	72 LEDs
Supply current	1 module	2 module	3 module	4 module	5 module	6 module
HIGH EFFICIENCY	12 W	24 W	35 W	47 W	59 W	71 W
HIGH BALANCE	18 W	36 W	54 W	73 W	91 W	109 W
HIGH FLUX	24 W	49 W	73 W	-	-	-
VERY HIGH FLUX	-	-	-	-	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 5 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.



CONFIGURE YOUR NATH M LUMINAIRE

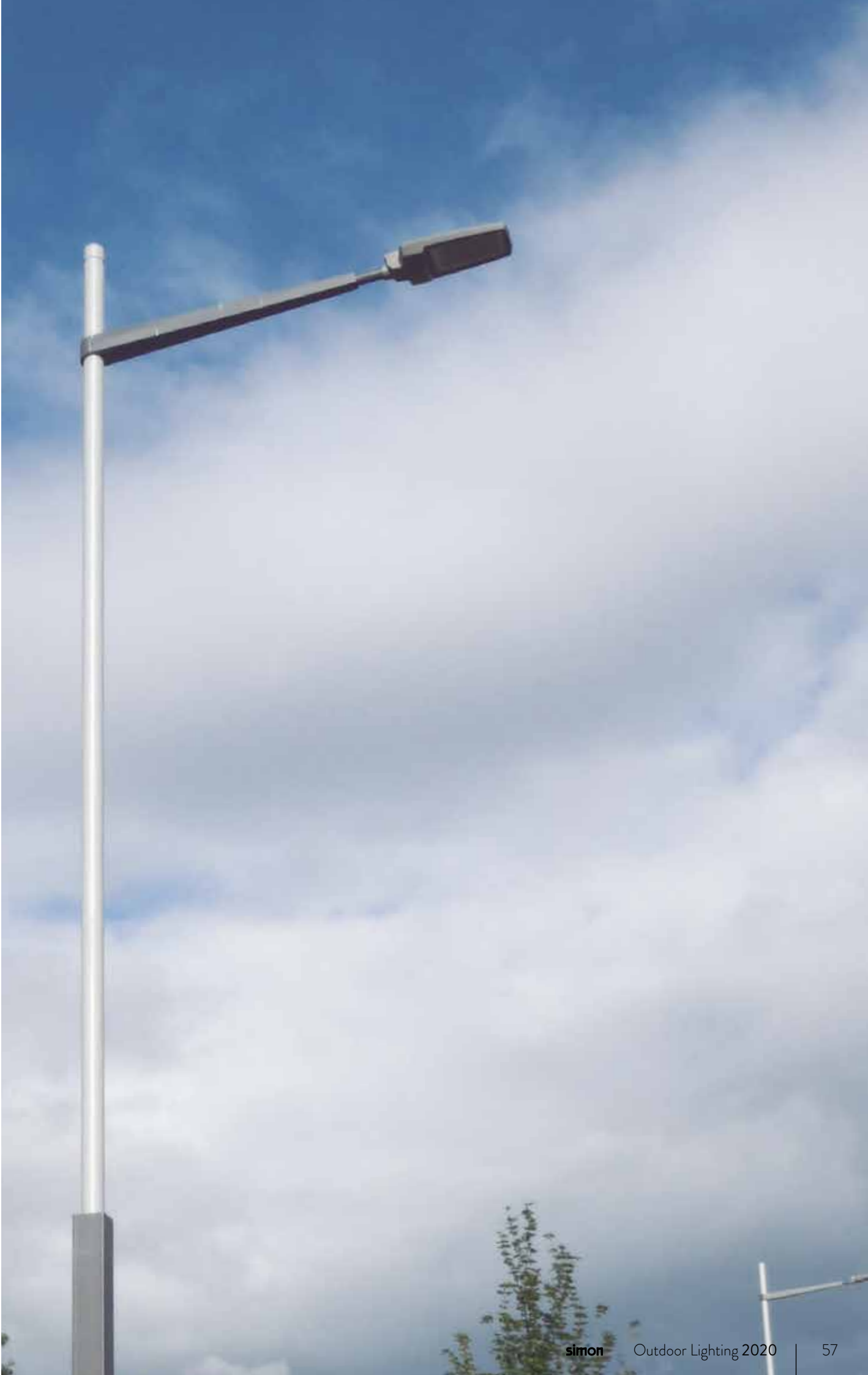
Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
NATMXF										Simon NATH Istanium® LED, size M, Ø60 mm post-top and lateral fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser
		0								Without installation wire (0 m)
			RG_ RJ_ RA_ RE_ RF_ RW_							G Type Front Road Light Optics J Type Front Road Light Optics A Type Extended Road Light Optics Extended Road Light Optics F Type Front Road Light Optics Wide Road Light Optics
			<input type="radio"/> NDL <input type="radio"/> WDL <input type="radio"/> SDL							Neutral daylight - 4,000 K Warm daylight – 3,000 K Soft daylight - 2,700 K
					_12W350 _24W700 _36W530 _49W700 _54W530 _73W700 _91W530 109W530					12 W 350 mA 24 W 700 mA 36 W 530 mA 49 W 700 mA 54 W 530 mA 73 W 700 mA 91 W 530 mA 109 W 530 mA
										1,760 lm @ 4,000 K 3,360 lm @ 4,000 K 4,960 lm @ 4,000 K 6,330 lm @ 4,000 K 7,390 lm @ 4,000 K 9,300 lm @ 4,000 K 12,340 lm @ 4,000 K 14,590 lm @ 4,000 K
										12 LEDs 12 LEDs 24 LEDs 24 LEDs 36 LEDs 36 LEDs 60 LEDs 72 LEDs
						IA23_ IA23S IA12_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2 N- dimming
						2N_ 2N+ 1N_ CAD_ 1-10 DALI MOV				Dimming without control line (self-dimming) Dimming with control line Without dimming (on/off) Cabinet amplitude dimming (electrical box dimmer) Dimming through 1.10 V input protocol Dimming through DALI input protocol Pedestrian movement detection
						C1 C2 C3				Class 1 Luminaire electrical protection Class 2 Luminaire electrical protection Class 3 (DC exclusive)
						GY9007 ***** *****				Standard finish in RAL GY9007 Finish in Simon colours (see page 514) Finish in RAL Classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	NATMXFGTFORJ_NDL_12W350IA23_1N_C1GY9007	101-000380016
24 W	12	700 mA	NATMXFGTFORJ_NDL_24W700IA23_1N_C1GY9007	101-000378016
36 W	24	530 mA	NATMXFGTFORJ_NDL_36W530IA23_1N_C1GY9007	101-000219016
49 W	24	700 mA	NATMXFGTFORJ_NDL_49W700IA23_1N_C1GY9007	101-000186016
54 W	36	530 mA	NATMXFGTFORJ_NDL_54W530IA23_1N_C1GY9007	101-000375016
73 W	48	700 mA	NATMXFGTFORJ_NDL_73W700IA23_1N_C1GY9007	101-000371016
91 W	60	530 mA	NATMXFGTFORJ_NDL_91W530IA23_1N_C1GY9007	101-000369016
109 W	72	530 mA	NATMXFGTFORJ_NDL109W530IA23_1N_C1GY9007	101-000367016

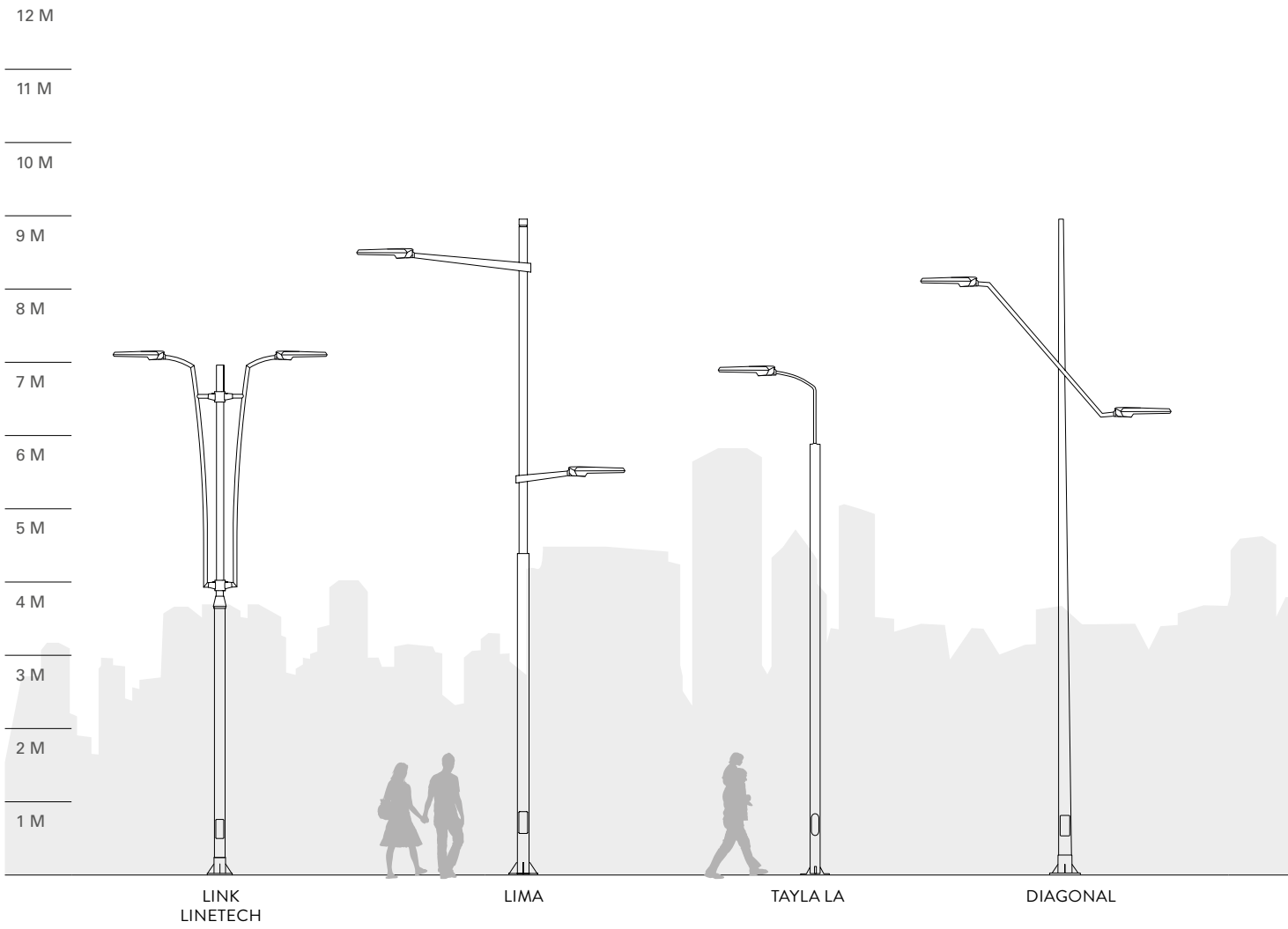
* Models available only with RJ and RE optics.

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes.
The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



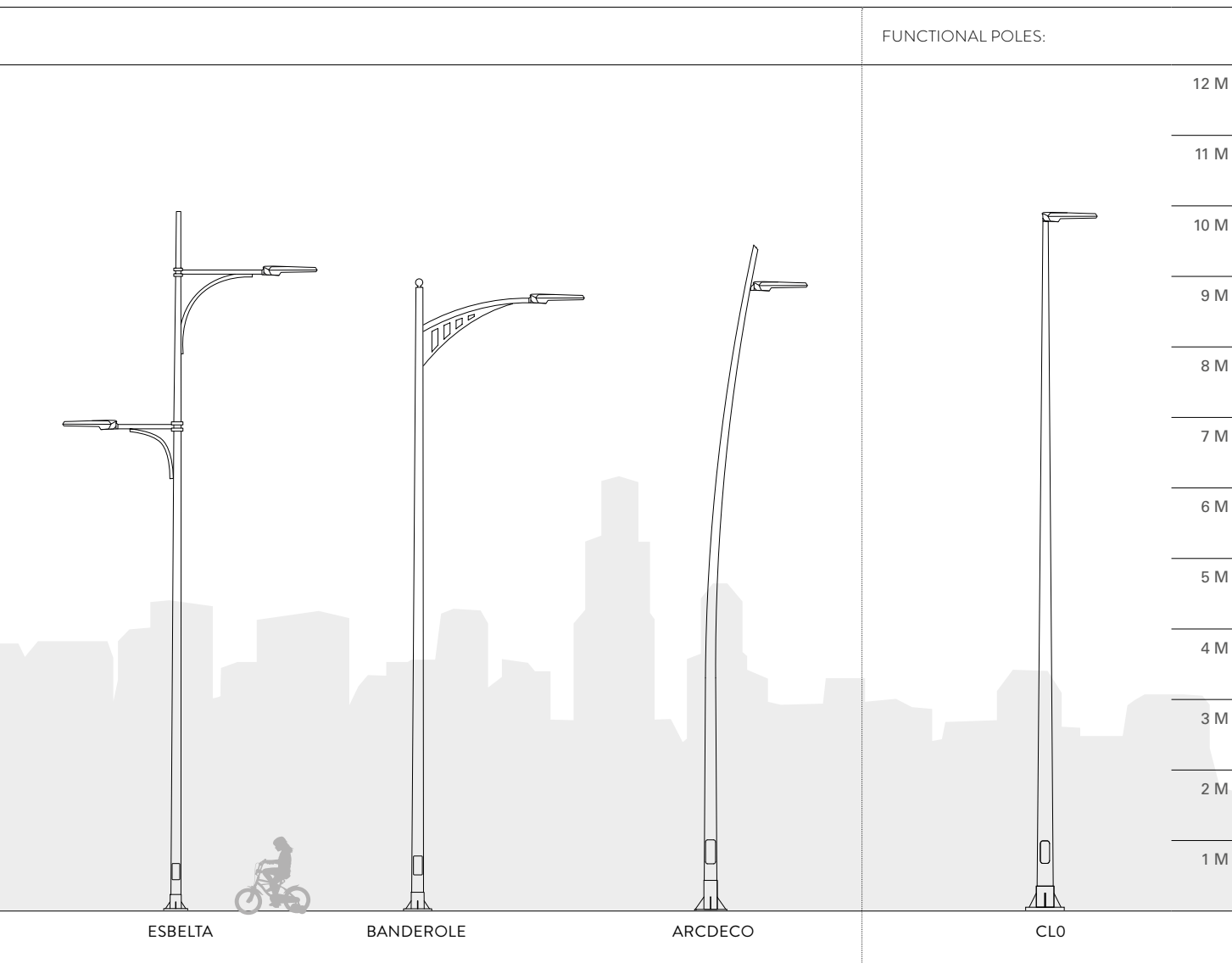
COMBINE YOUR NATH M LUMINAIRE WITH:

DECORATIVE POLES:







OTHER CUSTOM SOLUTIONS:
MAGNOLIA

OTHER DECORATIVE POLES:
UNO SYSTEM, BOTAVARA, ROCKET, LIBRA, CL21



OTHER FUNCTIONAL POLES: CL1, CEU, CAM, CU, CIL, ARCO, BC1, BEU, BAM

ACCESSORIES / REPLACEMENTS

	Description	Order code
	Fastening accessory for Ø76 mm mount	50-88540
	Fastening accessory for Ø76 mm mount, GY9007 finish	50-88540-016
	Reducing accessory for lateral fastening to Ø42 mm arm	5-531785
	Reducing accessory for lateral fastening to Ø34 mm arm	5-531818

OTHER LUMINAIRES IN THE COLLECTION



NATH S



NATH L



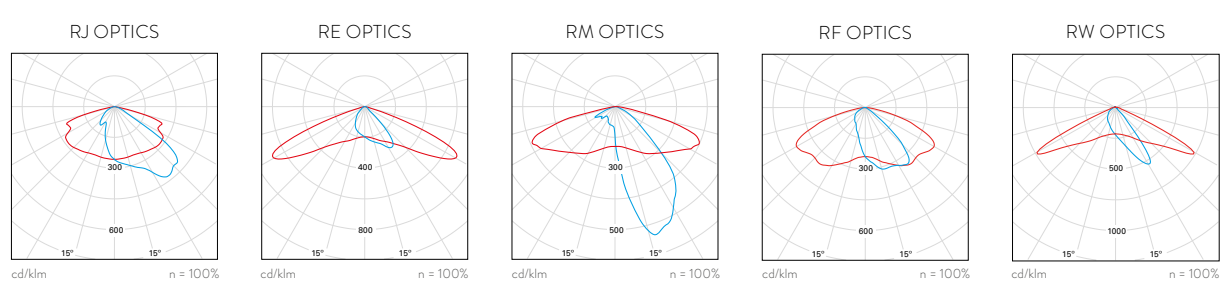
NATH L

ISTANIUM^{LED}

ROAD LIGHT LED LUMINAIRE

IP66 IP65	IK08	Min. 13 Kg	Max. 14.5 Kg
		CE	

COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

* Upon request

Simon **NATH LED** luminaire, size **L**, made of die-cast aluminium. Adjustable lateral fastening from -5° to $+10^{\circ}$ and adjustable post-top fastening from 0° to $+10^{\circ}$ by changing the piece's position.

Adaptation to fastenings from $\varnothing 34$ mm to $\varnothing 76$ mm depending on the adaptor, with negative compensation on poles and wall arms.

Flat cover with non-visible cooling fins in installed position. Self-cleaning system by means of rainwater, which allows its correct evacuation without dirtying the luminaire, preventing the lighting performance from being affected over time. Single body luminaire with two independent volumes of thermal separation for optical group and for electrical group, with self-levelling device. Access to gear and maintenance from the top with lever opening, without tools. Possibility of closing with two upper security screws.

Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** index for the Istanium LED optical group, with a pressure relief valve to keep the pressure constant and prevent moisture from entering, and an impact resistance index of **IK08**.

Possibility of mounting up to five multi-array optics, to guarantee the homogeneity of the photometry. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

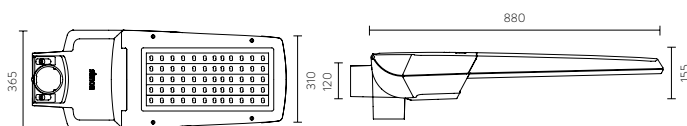
With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage. Possibility of including additional protection against surges of 10 kV/10 kA and automatic disconnection when opening the gear compartment.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GY9007 colour. Possibility of Simon and RAL chart finishes. Dimensions 880x365x155 mm.

ENEC+ certified luminaire.

DIMENSIONS AND FASTENING SYSTEMS



Lateral fastening	$\varnothing 60$ mm, 100 mm long, -5° , 0° , $+5^{\circ}$, $+10^{\circ}$ inclination
Post-top fastening	$\varnothing 60$ mm, 100 mm long, 0° , $+5^{\circ}$, $+10^{\circ}$ inclination
Surface exposed to the wind	0.073 m ²
Weight	Max. 14.5 kg Min. 13 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66 / IP65
IK	IK08
Body	Die-cast aluminium
Closure system	Stainless steel lever, tool-free opening
Fastening system	Die-cast aluminium
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
Closure	Stainless steel

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of $\pm 7\%$.

ELECTRICAL PARAMETERS *

Temp.	$-20^{\circ}\text{C} \dots +35^{\circ}\text{C}$	
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol	
Supply voltage	220-240V AC	
Frequency	50 / 60 Hz	
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)	
Power factor (cos ϕ at max. charge)	≥ 0.95	
Luminaire electrical protection	Class I or Class II	
Power according to models***	64 LEDs	128 LEDs
Supply current		
HIGH EFFICIENCY	63 W	125 W
HIGH BALANCE	97 W	193 W
HIGH FLUX	130 W	260 W
VERY HIGH FLUX	200 W	-



CONFIGURE YOUR NATH L LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
NATLXF										Simon NATH Istanium® LED, size L, Ø60 mm post-top and lateral fastening, flat cover
	GTF									Flat transparent shatter-proof glass diffuser
		0								Without installation wire (0 m)
			RJ_							J Type Front Road Light Optics
			RE_							E Type Extended Road Light Optics
			RM_							Class M Road Light Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
				<input type="radio"/> NDL						Neutral daylight - 4,000 K
				<input type="radio"/> WDL						Warm daylight – 3,000 K
				<input type="radio"/> SDL						Soft daylight - 2,700 K
					_63W350					63 W 350 mA 10,040 lumen @ 4000 K 64 LEDs
					_97W530					97 W 530 mA 14,240 lumen @ 4000 K 64 LEDs
					130W700					130W 700 mA 17,670 lumen @ 4000 K 64 LEDs
					200W_1K					200 W 1,050 mA 23,000 lumen @ 4000 K 64 LEDs
					193W530					193 W 530 mA 27,630 lumen @ 4000 K 128 LEDs
					260W700					260 W 700 mA 34,240 lumen @ 4000 K 128 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
							2N_-			Dimming without control line (self-dimming)
							2N+ _			Dimming with control line
							1N_			Without dimming (on/off)
							CAD_			Cabinet amplitude dimming (electrical box dimmer)
							1-10			Dimming through 1.10 V input protocol
							DALI			Dimming through DALI input protocol
								C1		Class 1 Luminaire electrical protection
								C2		Class 2 Luminaire electrical protection
									GY9007	Standard finish in RAL GY9007
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL classic chart colours

BASE REFERENCES

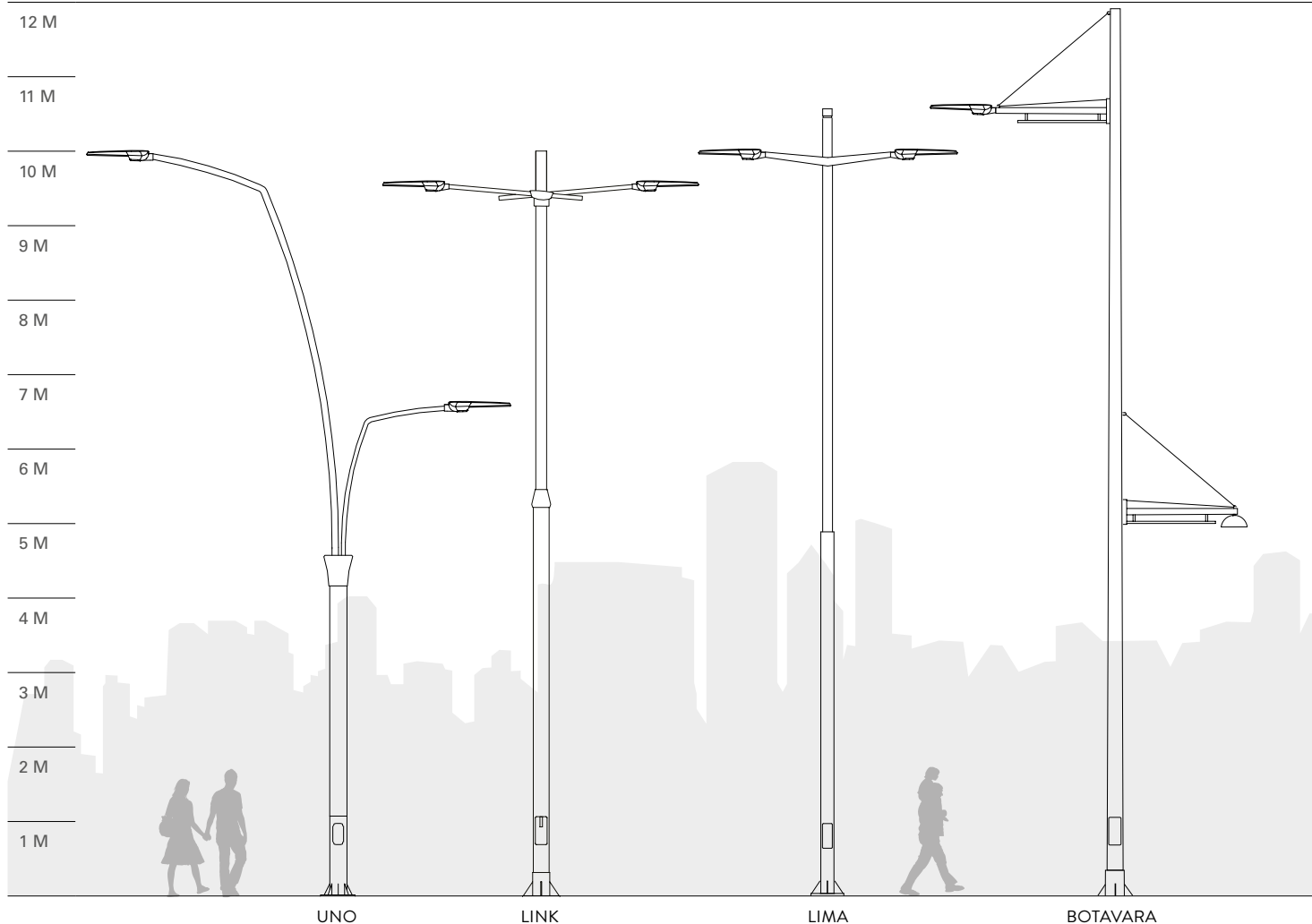
Power	No. of LEDs	Current	Configuration	Order code
63 W	64	350 mA	NATLXFGTFORJ_NDL_63W350IA23_1N__C1GY9007	104-000227016
97 W	64	530 mA	NATLXFGTFORJ_NDL_97W530IA23_1N__C1GY9007	104-000225016
130 W	64	700 mA	NATLXFGTFORJ_NDL130W700IA23_1N__C1GY9007	104-000192016
193 W	128	530 mA	NATLXFGTFORJ_NDL193W530IA23_1N__C1GY9007	104-000194016
200 W	64	1,050 mA	NATLXFGTFORJ_NDL200W_1KIA23_1N__C1GY9007	104-000445016
260 W	128	700 mA	NATLXFGTFORJ_NDL260W700IA23_1N__C1GY9007	104-000195016

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes.
The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.

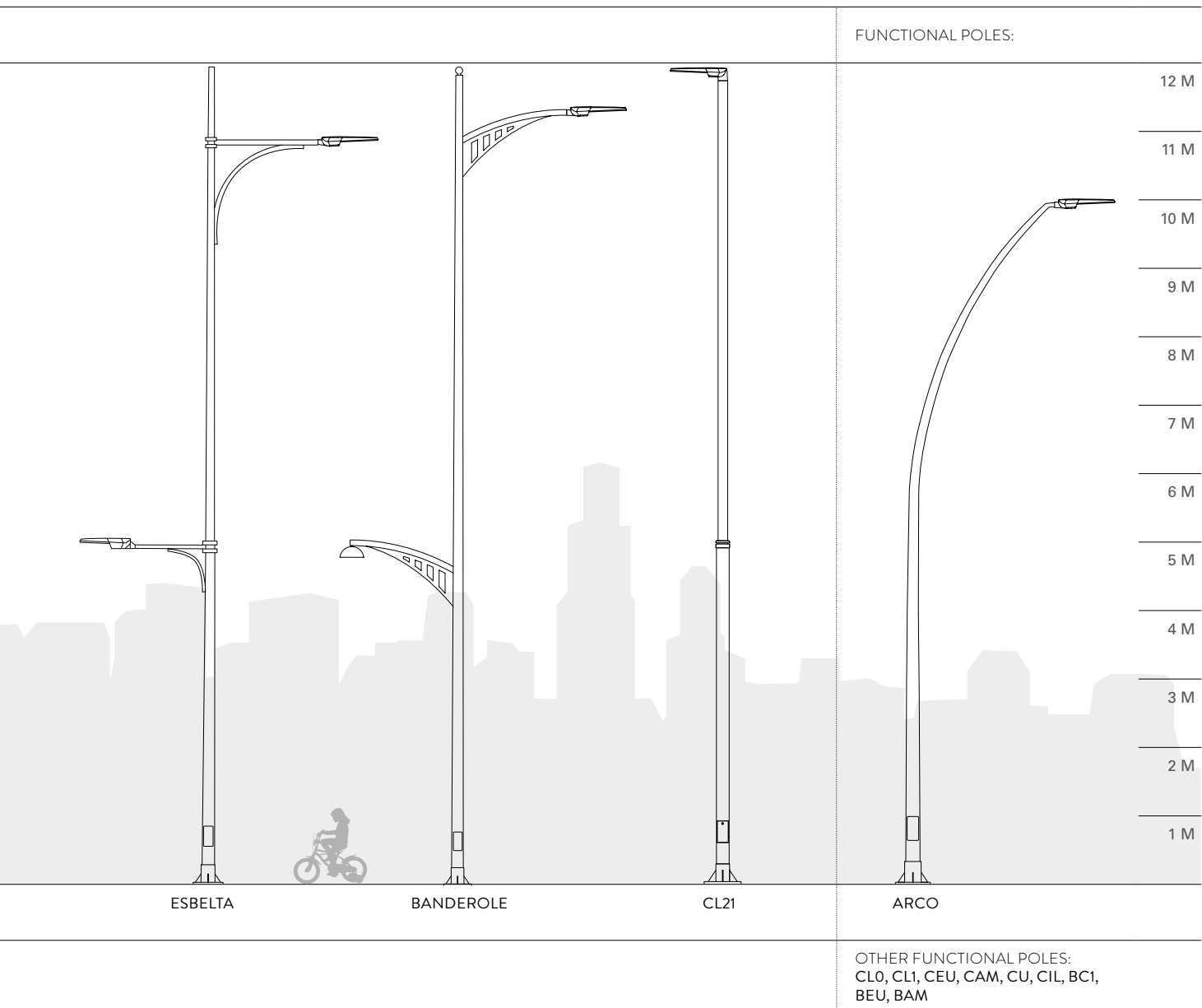


COMBINE YOUR NATH L LUMINAIRE WITH:



DECORATIVE POLES:



OTHER DECORATIVE POLES:
TALYA LA, DIAGONAL, ARCDECO, ROCKET, LIBRA



ACCESSORIES / REPLACEMENTS

	Description	Order code
	Fastening accessory for Ø76mm mount	50-88540
	Fastening accessory for Ø76mm mount, GY9007 finish	50-88540-016

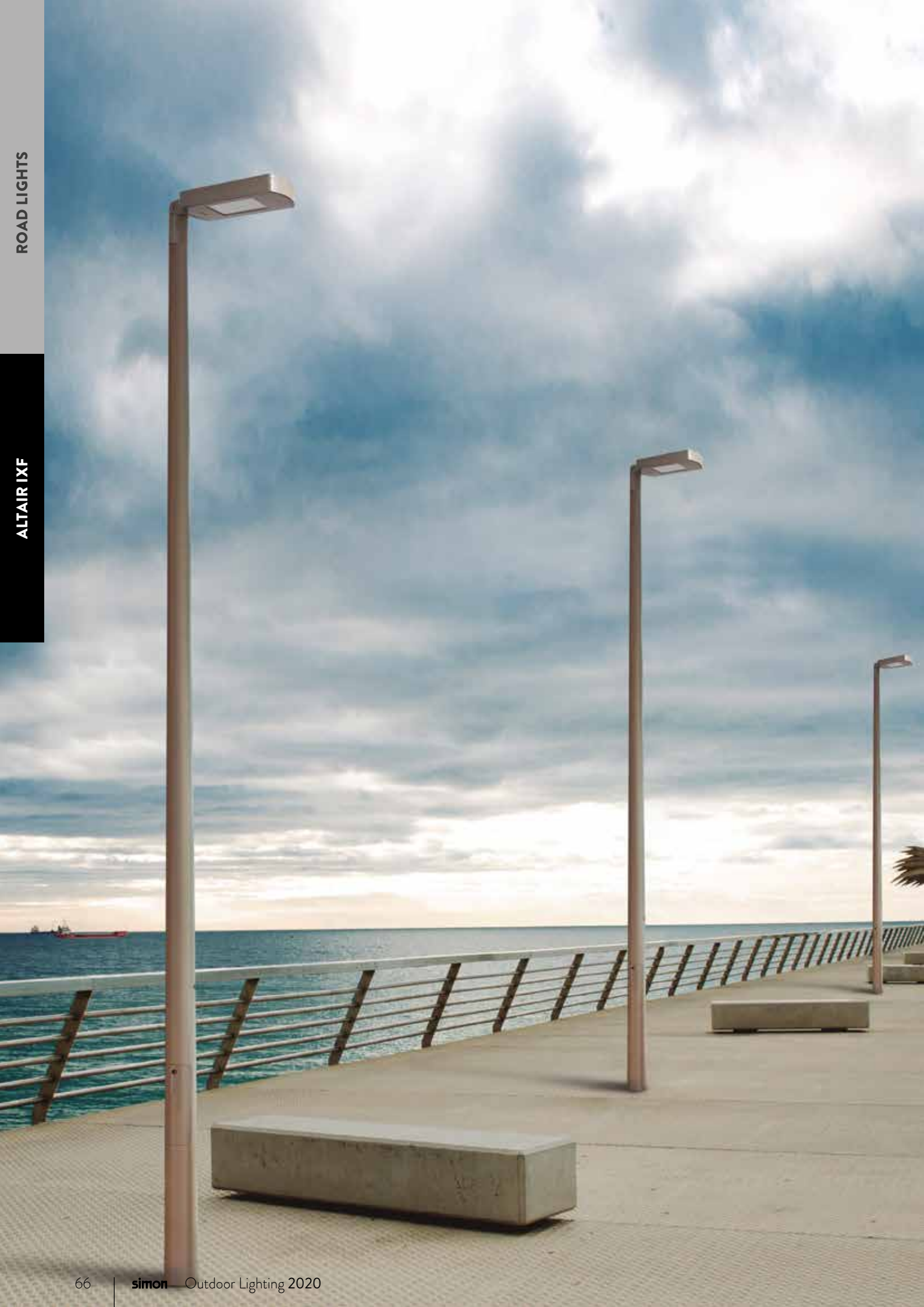
OTHER LUMINAIRES IN THE COLLECTION



NATH S



NATH M





ALTAIR

IXF

ISTANIUM^{LED}®

Functional road light luminaire,
ideal for the intensive
introduction of LED technology

During the luminaire's 25-year service life, it is only necessary to replace the light engine to ensure maximum energy efficiency. Reduce costs by reusing the body of the luminaire and only updating the light source. Guaranteed driver and light source updates.



Parking areas



Streets



Pedestrian streets



Commercial areas



Parks / gardens



Squares



Roundabouts /
intersections

ALTAIR IXF

FEATURES

DESIGN

Compact luminaire with a flat cover and an internal LED cooling system with a honeycomb design and no visible fins.

Flat tempered glass closure that prevents dirt from accumulating on the optics.

Minimal light pollution (ULOR < 1%) for E1 zones

EASY TO UPGRADE



The electro - optic group is removable and upgradeable by means of a single piece, with a disconnection mechanism for automatic disconnection.

WATERTIGHTNESS

Depressor that allows high dust and water resistance – IP66



SECURITY

Automatic electrical disconnection when opening the luminaire. Possibility of incorporating surge protection for surges up to 10 kV



ORIENTATION



Adjustable lateral fastening from -10° to $+15^{\circ}$



Adjustable post-top fastening from 0° to $+10^{\circ}$ by changing the position of the piece itself



Adaptable for fastenings of different diameters (from $\text{Ø}34$ mm to $\text{Ø}76$ mm) with negative compensation in curved poles and wall arms

TECHNICAL QUALITY



Simon has various production centres, both in Spain and around the world. All are equipped with advanced technology that allows us to maintain another of our basic principles for success: performing demanding tests and controls to guarantee the quality of all our products



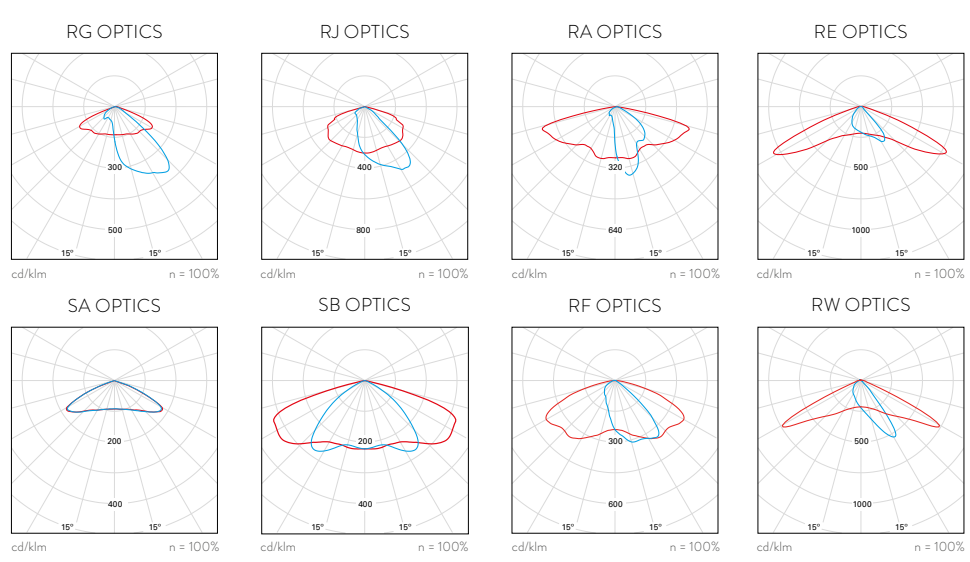
ALTAIR IXF

ISTANIUM^{LED}®

DECORATIVE ROAD LIGHT LED LUMINAIRE

IP66	IK09 IK10	Min. 5 Kg	Max. 6 Kg
		CE	

COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **ALTAIR LED** luminaire, size **I**, made of die - cast aluminium. Adjustable lateral fastening from -10° to $+15^{\circ}$ and adjustable post - top fastening from 0° to $+10^{\circ}$ by changing the position of the piece itself.

Adaptation to fastenings from $\varnothing 34$ mm to $\varnothing 76$ mm depending on the adaptor, with negative compensation on poles and wall arms.

Flat cover with internal honeycomb LED cooling system, no visible fins. Access to the electrical - optical group and maintenance via the top part, fastened with four captive screws that are invisible when installed.

6 mm thick flat transparent tempered glass diffuser to facilitate cleaning and avoid UV radiation on the optics. **IP66** protection index for the complete luminaire, with a pressure relief valve to keep the pressure constant and prevent moisture from entering, and an impact resistance index up to **IK10**.

Possibility of mounting up to eight multi - array optics, to guarantee the homogeneity of the photometry. Anti - glare, truncated pyramid - shaped reflector, matt with light flux recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

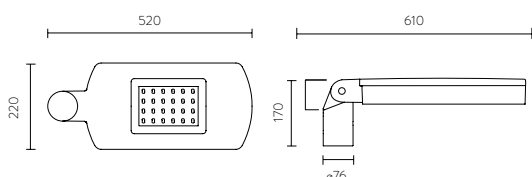
With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA. With automatic disconnection when opening the gear compartment.

Optional dimming without control line (self - dimming) 2N - . Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYDECO colour. Possibility of Simon and RAL chart finishes. Dimensions 520x170x220 mm.

ENEC certified luminaire.

DIMENSIONS AND FASTENING SYSTEMS



Lateral fastening	$\varnothing 60$ mm, 100 mm long, -10° , -5° , 0° , $+5^{\circ}$, $+10^{\circ}$, $+15^{\circ}$ inclination Optional accessory 50-73277, $\varnothing 48$ mm, 100 mm long, -10° , -5° , 0° , $+5^{\circ}$, $+10^{\circ}$, $+15^{\circ}$ inclination
Post-top fastening	$\varnothing 60$ mm, 100 mm long, 0° , $+5^{\circ}$, $+10^{\circ}$ inclination. Optional accessory 50-73277, $\varnothing 48$ mm, 100 mm long, 0° , $+5^{\circ}$, $+10^{\circ}$ inclination
Surface exposed to the wind	0.066 m ²
Weight	Max. 6 kg Min. 5 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	From IK09 to IK10
Body	Die-cast aluminium
Cover	Die-cast aluminium
Closure system	Stainless steel screws
Fastening system	Die-cast aluminium
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
-------------	------------------------------------

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of $\pm 7\%$.

ELECTRICAL PARAMETERS *

Temp.	$-20^{\circ}\text{C} \dots +35^{\circ}\text{C}$		
Dimming**	2N - Without control line 1N (100%) Without dimming		
Luminaires supplied by electrical grid			
Supply voltage	220-240V AC		
Frequency	50 / 60 Hz		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)		
Power factor (cos ϕ at max. charge)	≥ 0.95		
Luminaire electrical protection	Class I or Class II		
Power according to models***	12 LEDs	16 LEDs	24 LEDs
Supply current			
HIGH EFFICIENCY	12 W	16 W	24 W
HIGH BALANCE	18 W	24 W	36 W
HIGH FLUX	24 W	32 W	49 W
VERY HIGH FLUX	37 W	50 W	75 W



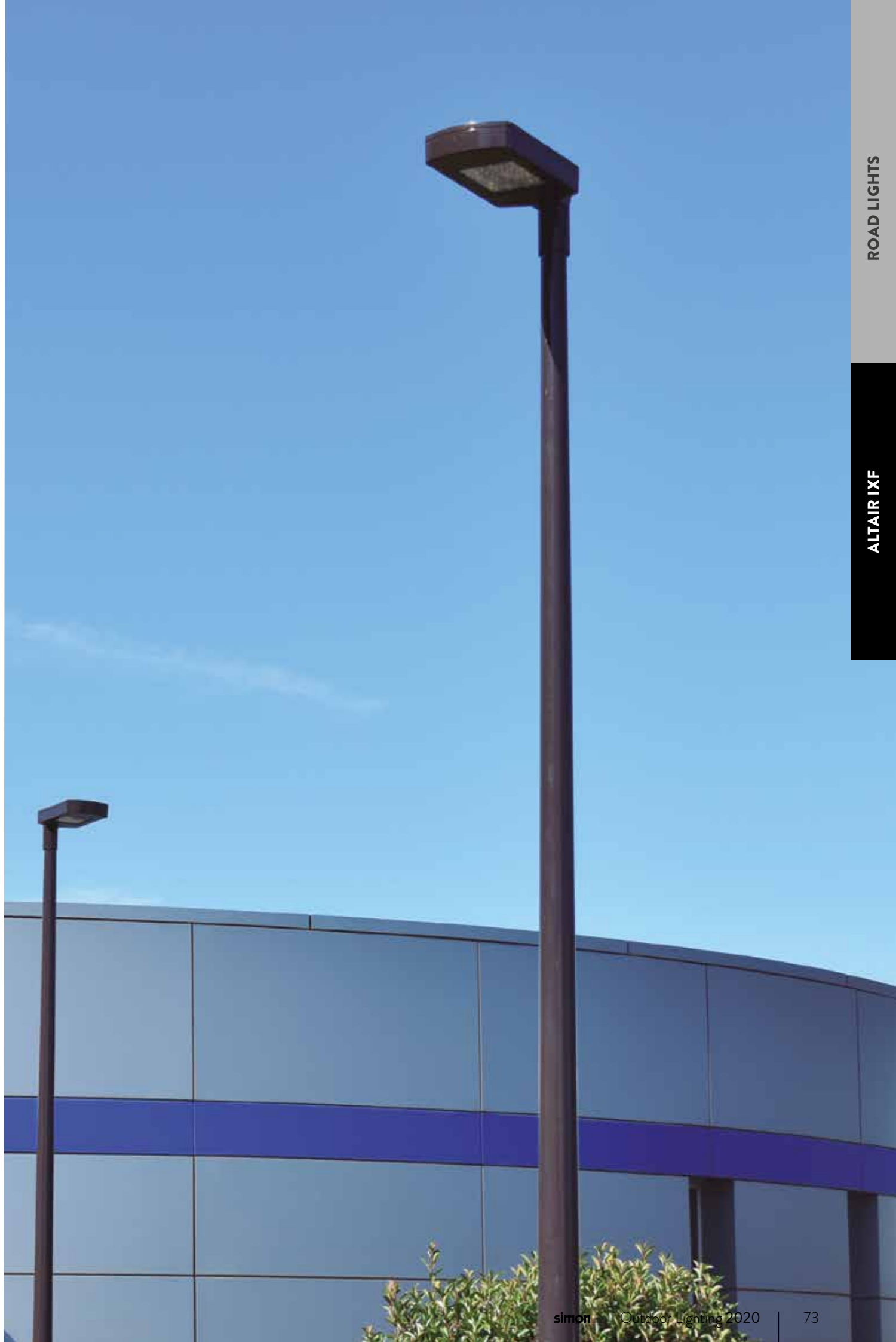
CONFIGURE YOUR ALTAIR IXF LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
ALTIXF										Simon ALTAIR Istanium® LED, size I, ø60 mm post-top and lateral fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser IK09
	BTF									Flat transparent shatter-proof tempered glass diffuser IK10, maximum impact resistance
		0								Without installation wire (0 m)
		5								With installation wire (5 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			SA_							A Type Symmetric Optics
			SB_							B Type Symmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
									<input type="radio"/> NDL	Neutral daylight - 4,000 K
									<input type="radio"/> WDL	Warm daylight - 3,000 K
									<input type="radio"/> SDL	Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,970 lm @ 4,000 K 12 LEDs
					_18W530					18 W 530 mA 2,790 lm @ 4,000 K 16 LEDs
					_24W700					24 W 700 mA 3,530 lm @ 4,000 K 12 LEDs
					_32W700					32 W 700 mA 4,560 lm @ 4,000 K 16 LEDs
					_37W_1K					37 W 1,050 mA 4,870 lm @ 4,000 K 12 LEDs
					_50W_1K					50 W 1,050 mA 6,110 lm @ 4,000 K 16 LEDs
					_75W_1K					75 W 1,050 mA 8,590 lm @ 4,000 K 24 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
							2N_			Dimming without control line (self-dimming)
							1N_			Without dimming (on/off)
								C1		Class 1 Luminaire electrical protection
								C2		Class 2 Luminaire electrical protection
									GYDECO	Standard finish in Simon Decorative Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL Classic chart colours

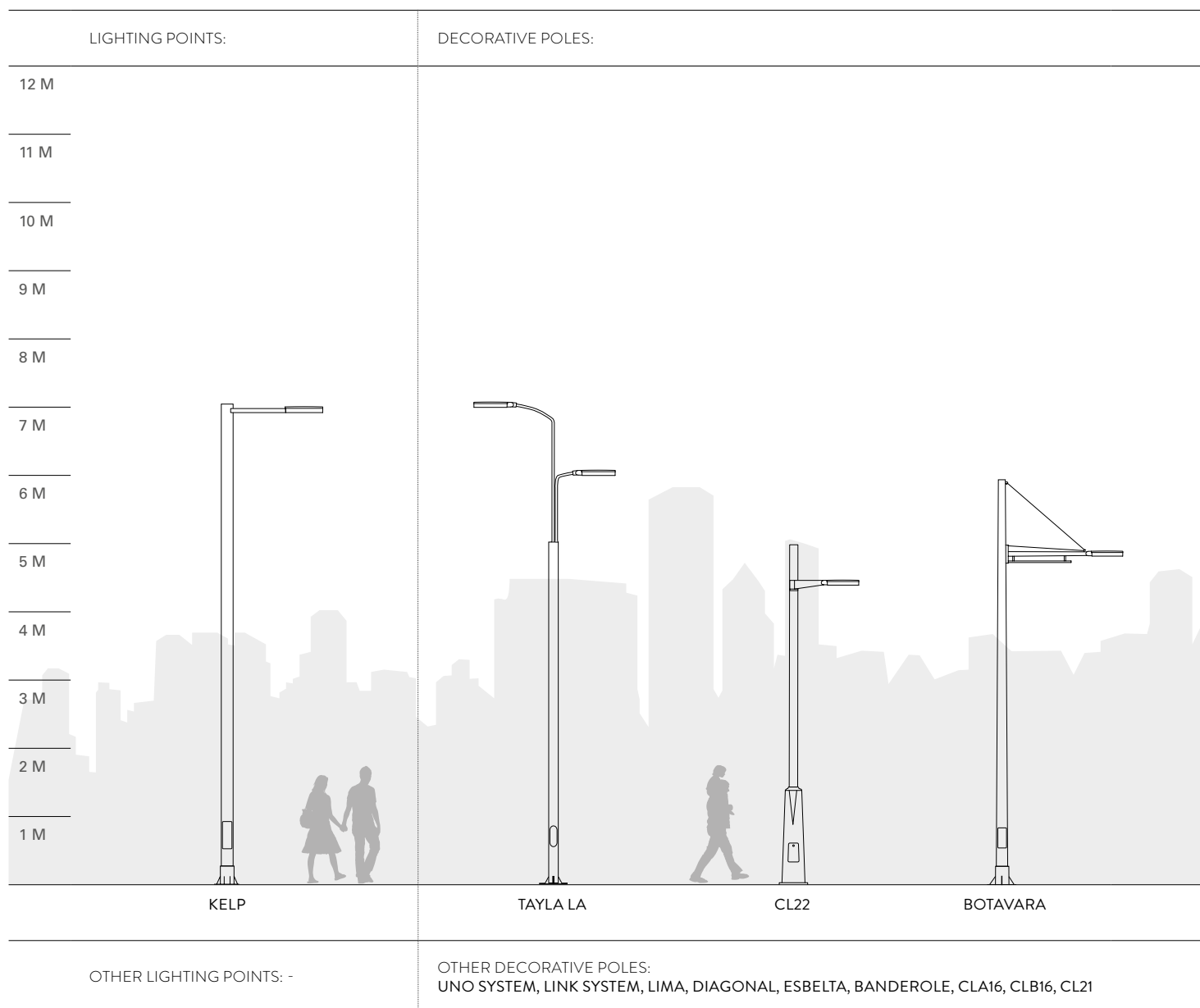
BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	ALTIXBTF0RJ_NDL_12W350IA23_1N_C1GYDECO	249-000380013
18 W	12	530 mA	ALTIXBTF0RJ_NDL_18W530IA23_1N_C1GYDECO	249-000379013
24 W	12	700 mA	ALTIXBTF0RJ_NDL_24W700IA23_1N_C1GYDECO	249-000378013
32 W	16	700 mA	ALTIXBTF0RJ_NDL_32W700IA23_1N_C1GYDECO	249-000183013
37 W	12	1,050 mA	ALTIXBTF0RJ_NDL_37W_1KIA23_1N_C1GYDECO	249-001170013
50 W	16	1,050 mA	ALTIXBTF0RJ_NDL_50W_1KIA23_1N_C1GYDECO	249-000439013
75 W	24	1,050 mA	ALTIXBTF0RJ_NDL_75W_1KIA23_1N_C1GYDECO	249-000441013

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.




COMBINE YOUR ALTAIR IXF LUMINAIRE WITH:



			FUNCTIONAL POLES:
			12 M
			11 M
			10 M
			9 M
			8 M
			7 M
			6 M
			5 M
			4 M
			3 M
			2 M
			1 M
ARCDECO	ROCKET	LIBRA	CL0
OTHER FUNCTIONAL POLES: CL1, CEU, CAM, CU, CIL, ARCO, BC1, BEU, BAM			

ACCESSORIES / REPLACEMENTS

	Description	Order code
	Reducing accessory for lateral fastening to Ø60 mm arm	50-73277
	Reducing accessory for lateral fastening to Ø42 mm arm	5-531785
	Reducing accessory for lateral fastening to Ø34 mm arm	5-531818
	Replacement diffuser glass for ALTAIR IK10	50-73598
	Fastening system replacement	50-73617

OTHER LUMINAIRES IN THE COLLECTION



ALTAIR IYF



MERAk

SXF

ISTANIUM^{LED}®

Functional road light luminaire,
ideal for the intensive
introduction of LED technology

During the luminaire's 25-year service life, it is only necessary to
replace the light engine to ensure maximum energy efficiency.
Tool-less installation.

Reduce costs by reusing the body of the luminaire and
only updating the light source.

Guaranteed driver and light source updates.



Parking areas



Avenues



Streets



Pedestrian streets



Commercial areas



Parks / gardens



Squares



Roundabouts /
intersections

MERAK SXF

FEATURES

DESIGN

Compact luminaire with a flat cover and an internal LED cooling system with a honeycomb design and no visible fins

Flat tempered glass closure that prevents dirt from accumulating on the optics.

Minimal light pollution (ULOR<1%) for E1 zones

EASY TO UPGRADE

The electro-optic group is removable and upgradeable by means of a single piece, with a disconnection mechanism for automatic disconnection.



Tool-free opening



Automatic electric disconnection



Depressor that allows high dust and water resistance - IP66

SECURITY

Automatic electrical disconnection when opening the luminaire. Possibility of incorporating surge protection for surges up to 10 kV



THERMAL MANAGEMENT

Internal refrigeration system to dissipate heat from the honeycomb LEDs, without fins, guaranteeing the service life of the LED and its optimal performance at high supply currents.



ORIENTATION



Adjustable lateral fastening from -10° to $+15^{\circ}$



Adjustable post-top fastening from 0° to $+10^{\circ}$ by changing the position of the part itself

Adaptable for fastenings of different diameters (from $\text{Ø}34$ mm to $\text{Ø}76$ mm) with negative compensation in curved poles and wall arms

TECHNICAL QUALITY



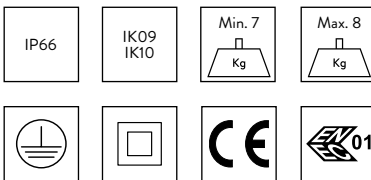
Simon has various production centres, both in Spain and around the world. All are equipped with advanced technology that allows us to maintain another of our basic principles for success: performing demanding tests and controls to guarantee the quality of all our products.



MERAK SXF

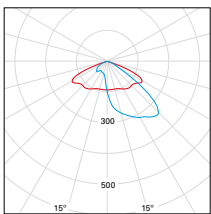
ISTANIUM[®] LED

DECORATIVE ROAD LIGHT LED LUMINAIRE



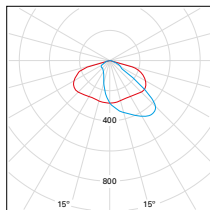
COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)
 LED DURATION (L90 B10 AT $T_a=25^\circ\text{C}$ AND $T_j=95^\circ\text{C}$): 100,000 h

RG OPTICS



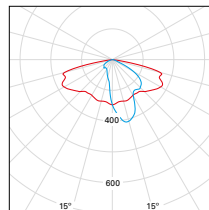
cd/klm n = 100%

RJ OPTICS



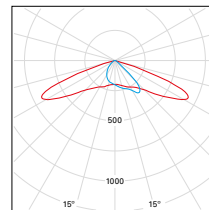
cd/klm n = 100%

RA OPTICS



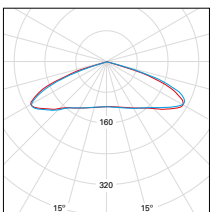
cd/klm n = 100%

RE OPTICS



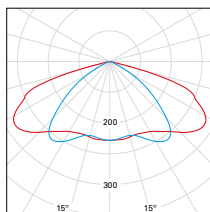
cd/klm n = 100%

SA OPTICS



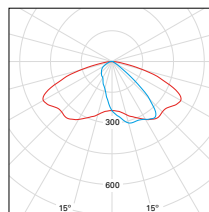
cd/klm n = 100%

SB OPTICS



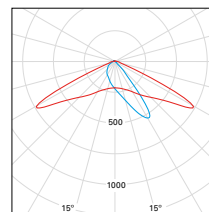
cd/klm n = 100%

RF OPTICS



cd/klm n = 100%

RW OPTICS



cd/klm n = 100%

— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **MERAK LED** luminaire, size **S**, made of die-cast aluminium. Adjustable lateral fastening from -10° to $+15^{\circ}$ and adjustable post-top fastening from 0° to $+10^{\circ}$ by changing the position of the piece itself.

Adaptation to fastenings from $\varnothing 34$ mm to $\varnothing 76$ mm depending on the adaptor, with negative compensation on poles and wall arms.

Flat cover with internal honeycomb LED cooling system, no visible fins. Access to the electro-optical group and maintenance from the upper part with opening by means of two levers, without tools. The electro-optical group is removable and upgradeable in a single piece, with a disconnecter for automatic disconnection and a three-guide alignment system to avoid incorrect assemblies.

6 mm thick flat transparent tempered glass diffuser to facilitate cleaning and avoid UV radiation on the optics. **IP66** protection index for the complete luminaire, with pressure relief valve to keep the pressure constant and prevent moisture from entering, and an impact resistance rating of up to **IK10**.

Possibility of mounting up to ten multi-array optics, to guarantee the homogeneity of the photometry. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

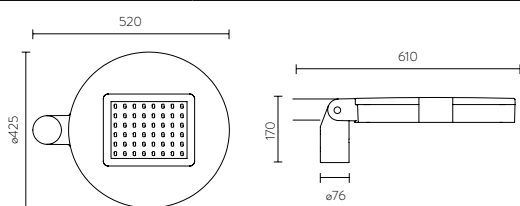
With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA. With automatic disconnection when opening the gear compartment.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, by telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYDECO colour. Possibility of Simon and RAL chart finishes. Dimensions 520x170x425 mm.

ENEC certified luminaire.

DIMENSIONS AND FASTENING SYSTEMS



Lateral fastening	$\varnothing 60$ mm, 100 mm long, -10° , -5° , 0° , $+5^{\circ}$, $+10^{\circ}$, $+15^{\circ}$ inclination Optional accessory 50-73277, $\varnothing 48$ mm, 100 mm long, -10° , -5° , 0° , $+5^{\circ}$, $+10^{\circ}$, $+15^{\circ}$ inclination
Post-top fastening	$\varnothing 60$ mm, 100 mm long, 0° , $+5^{\circ}$, $+10^{\circ}$ inclination
Surface exposed to the wind	0.066 m ²
Weight	Min. 7 kg Max. 8 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	From IK09 to IK10
Body	Die-cast aluminium
Cover	Die-cast aluminium
Closure system	Levers made of die-cast aluminium, tool-free opening
Fastening system	Die-cast aluminium
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
-------------	------------------------------------

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of $\pm 7\%$.

ELECTRICAL PARAMETERS *

Temp.	$-20^{\circ}\text{C} \dots +35^{\circ}\text{C}$
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol

Luminaires supplied by electrical grid

Supply voltage	220-240V AC			
Frequency	50 / 60 Hz			
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)			
Power factor (cos ϕ at max. charge)	≥ 0.95			
Luminaire electrical protection	Class I or Class II			
Power according to models***	16 LEDs	24 LEDs	40 LEDs	48 LEDs
Supply current				
HIGH EFFICIENCY	16 W	24 W	39 W	47 W
HIGH BALANCE	24 W	36 W	60 W	73 W
HIGH FLUX	32 W	49 W	81 W	97 W
VERY HIGH FLUX	50 W	75 W	-	-



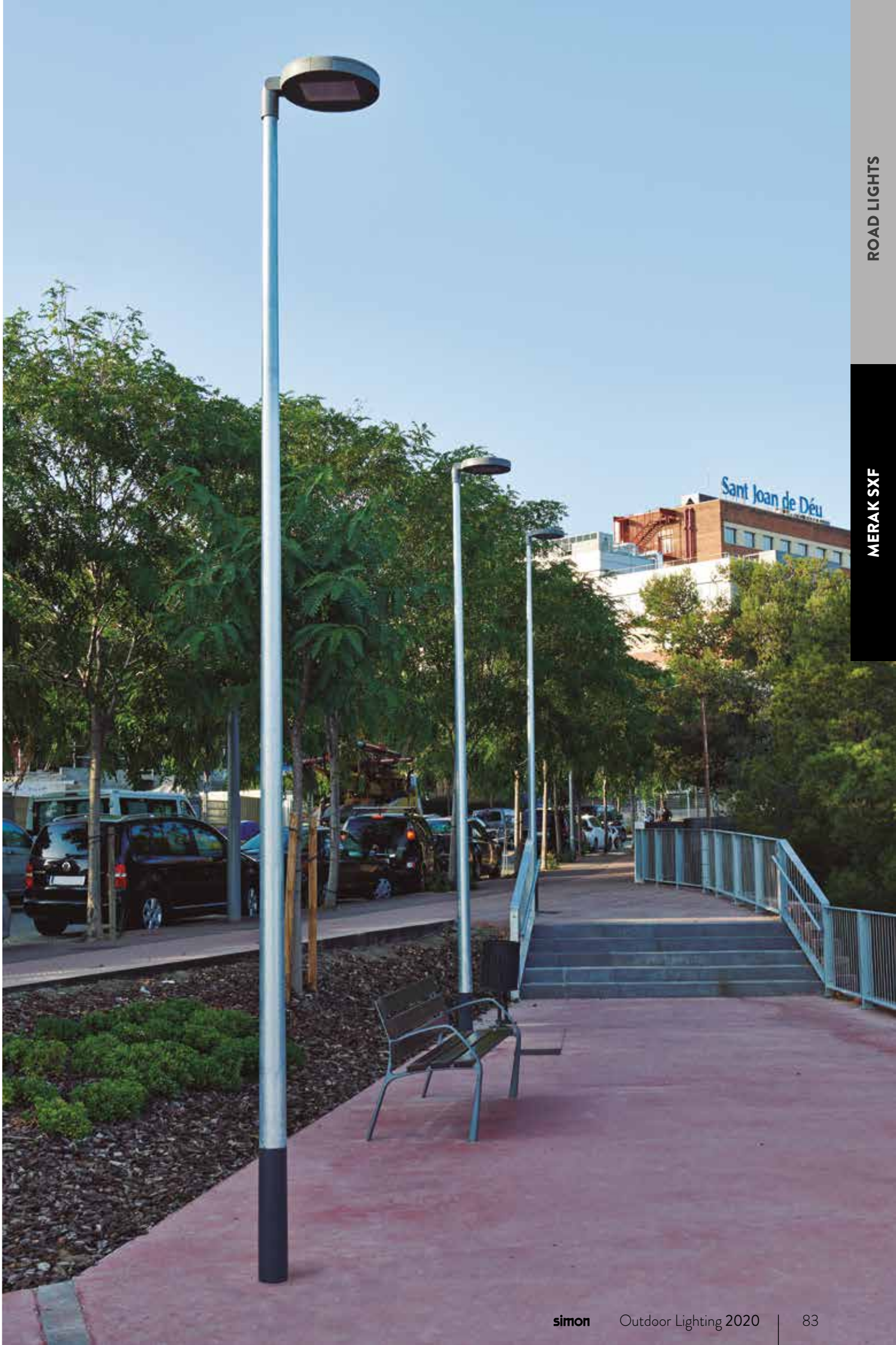
CONFIGURE YOUR MERAK SXF LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
MERSXF										Simon MERAK Istanium® LED, size S, ø60 mm post-top and lateral fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser IK09
	BTF									Flat transparent shatter-proof tempered glass diffuser IK10 maximum impact resistance
		0								Without installation wire (0 m)
		5								With installation wire (5 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			SA_							A Type Symmetric Optics
			SB_							B Type Symmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
									<input type="radio"/> NDL	Neutral daylight - 4,000 K
									<input type="radio"/> WDL	Warm daylight – 3,000 K
									<input type="radio"/> SDL	Soft daylight - 2,700 K
					_16W350					16 W 350 mA 2,550 lm @ 4,000 K 16 LEDs
					_24W530					24 W 530 mA 3,630 lm @ 4,000 K 16 LEDs
					_32W700					32 W 700 mA 4,520 lm @ 4,000 K 16 LEDs
					_36W530					36 W 530 mA 5,300 lm @ 4,000 K 24 LEDs
					_49W700					49 W 700 mA 6,560 lm @ 4,000 K 24 LEDs
					_75W_1K					75 W 1,050 mA 8,730 lm @ 4,000 K 24 LEDs
					_81W700					81 W 700 mA 10,650 lm @ 4,000 K 40 LEDs
					_97W700					97 W 700 mA 12,690 lm @ 4,000 K 48 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
							2N_-			Dimming without control line (self-dimming)
							2N+_			Dimming with control line
							1N_			Without dimming (on/off)
							CAD_			Cabinet amplitude dimming (electrical box dimmer)
							1-10			Dimming through 1.10 V input protocol
							DALI			Dimming through DALI input protocol
								C1		Class 1 Luminaire electrical protection
								C2		Class 2 Luminaire electrical protection
									GYDECO	Standard finish in Simon Decorative Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL Classic chart colours

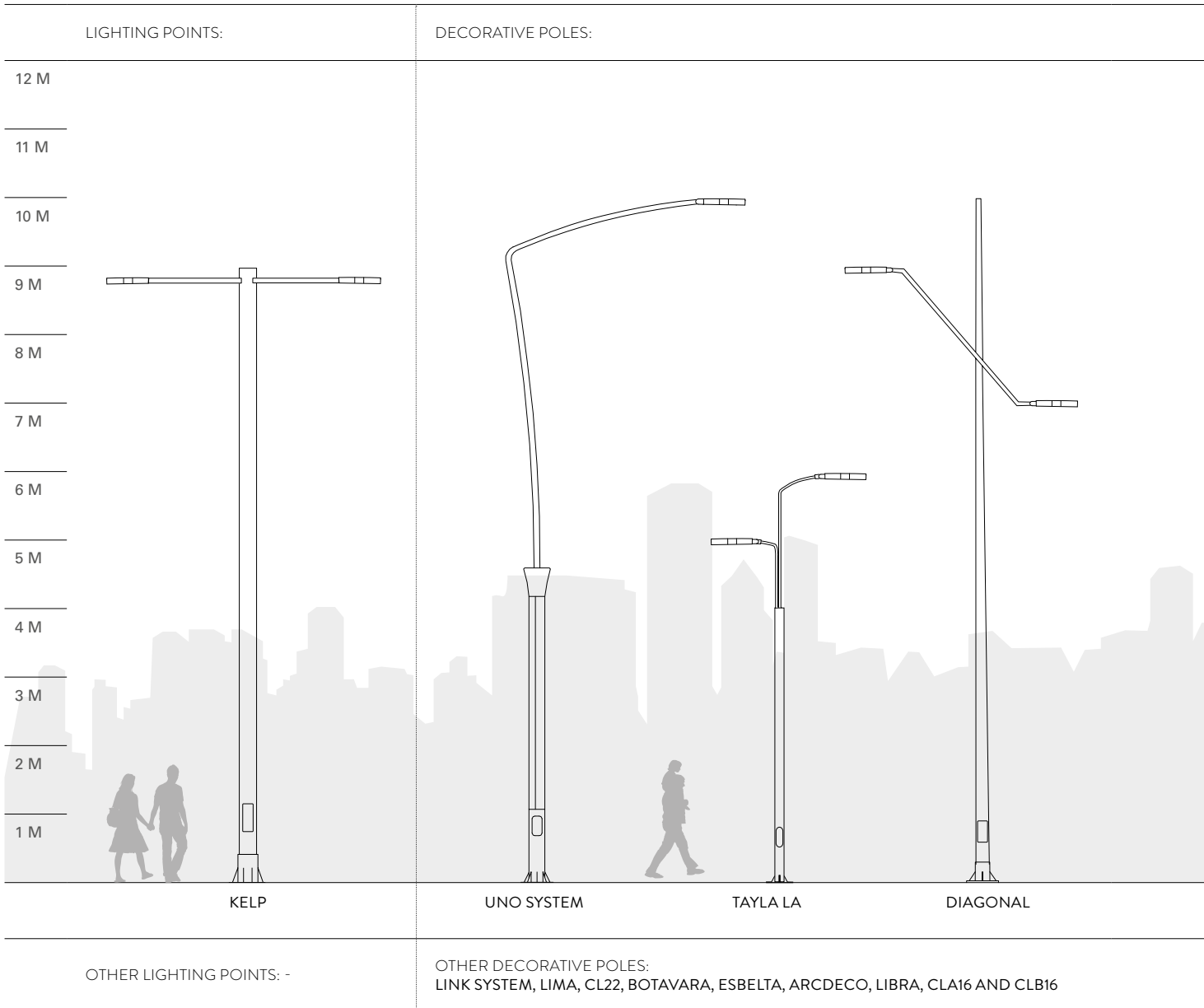
BASE REFERENCES

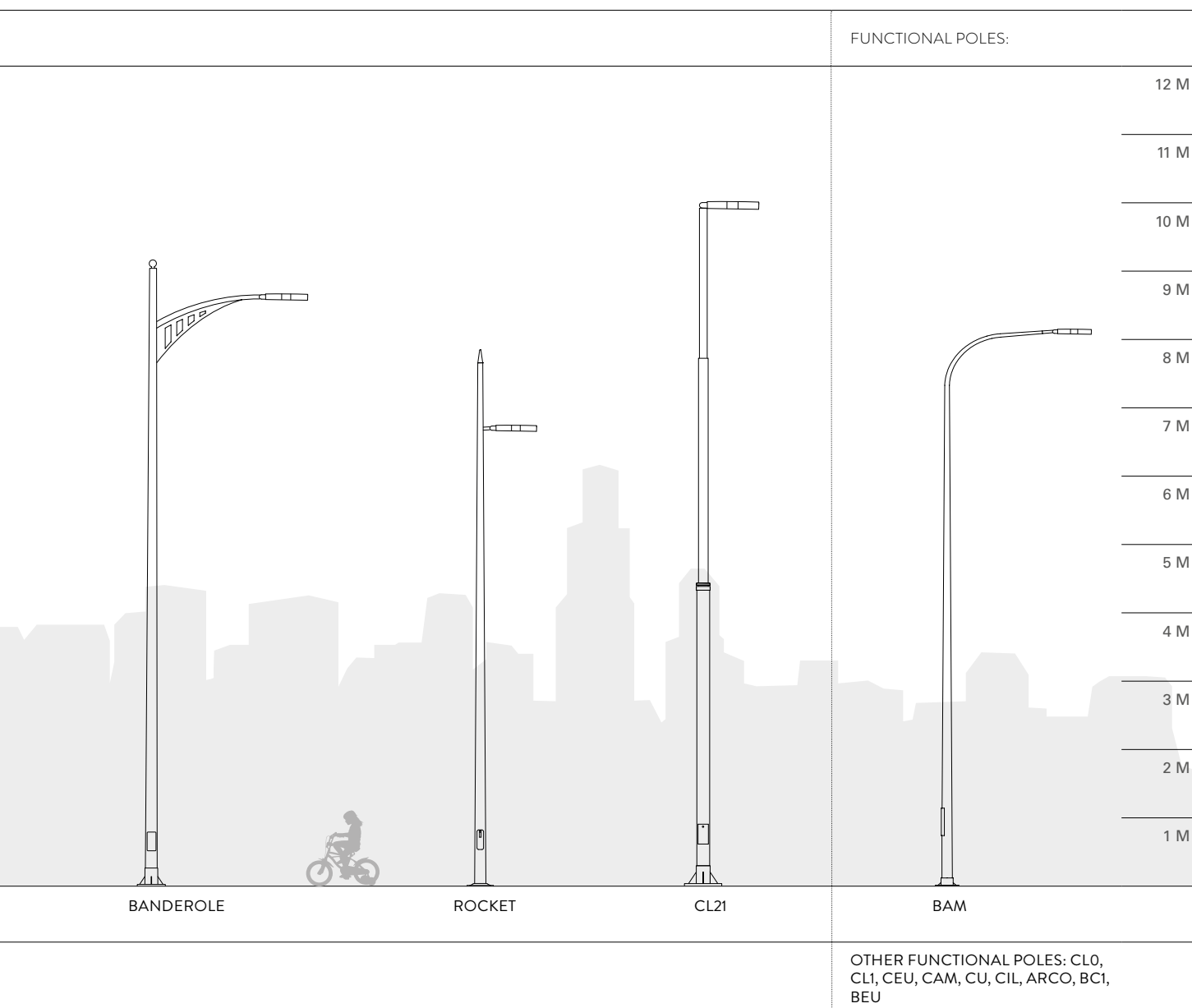
Power	No. of LEDs	Current	Configuration	Order code
16 W	16	350 mA	MERSXFBTF0RJ_NDL_16W350IA23_1N_C1GYDECO	243-000222013
24 W	16	530 mA	MERSXFBTF0RJ_NDL_24W530IA23_1N_C1GYDECO	243-000220013
32 W	16	700 mA	MERSXFBTF0RJ_NDL_32W700IA23_1N_C1GYDECO	243-000183013
36 W	24	530 mA	MERSXFBTF0RJ_NDL_36W530IA23_1N_C1GYDECO	243-000219013
49 W	24	700 mA	MERSXFBTF0RJ_NDL_49W700IA23_1N_C1GYDECO	243-000186013
75 W	24	1,050 mA	MERSXFBTF0RJ_NDL_75W_1KIA23_1N_C1GYDECO	243-000441013
81 W	40	700 mA	MERSXFBTF0RJ_NDL_81W700IA23_1N_C1GYDECO	243-000189013
97 W	48	700 mA	MERSXFBTF0RJ_NDL_97W700IA23_1N_C1GYDECO	243-000963013

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.






COMBINE YOUR MERAK SXF LUMINAIRE WITH:





ACCESSORIES / REPLACEMENTS

	Description	Order code
	Fastening accessory for Ø76 mm mount	50-88540
	Fastening accessory for Ø76 mm mount, GY9007 finish	50-88540-013
	Reducing accessory for lateral fastening to Ø48 mm arm	50-73277
	Reducing accessory for lateral fastening to Ø42 mm arm	5-531785
	Reducing accessory for lateral fastening to Ø34 mm arm	5-531818
	Fastening system replacement	50-73617

OTHER LUMINAIRES IN THE COLLECTION



MERAK SYF



LUMINAIRES
URBAN

ISTANIUM^{LED}®

ALTAIR
 IYF



MERAK
 SYF



SKAT
 S / M



ALYA



MIZAR



HYDRA



KUMA



The decorative urban lighting solutions fulfil the need to illuminate various public spaces in urban areas, while also stylistically enhancing the environment.



ALTAIR

IYF

ISTANIUM^{LED}®

Decorative luminaire, ideal for intensive introduction of LED technology

Decorative urban luminaire, die-cast aluminium, Y-shaped post-top fastening. It provides necessary public lighting with maximum efficiency.



Streets



Pedestrian streets



Commercial areas



Parks / gardens



Squares



Roundabouts / Intersections



ALTAIR IYF

FEATURES

DESIGN

Compact luminaire with a flat cover and an internal LED cooling system with a honeycomb design and no visible fins.

Flat tempered glass closure that prevents dirt from accumulating on the optics.

SECURITY

Automatic electrical disconnection when opening the luminaire.
Possibility of incorporating surge protection for surges up to 10 kV.

**EASY TO UPGRADE**

The electro-optic group is removable and upgradeable by means of a single piece, with a disconnection mechanism for automatic disconnection.



ORIENTATION

Post-top fastening with two Y-shaped arms constructed as a single injection-moulded part and with the possibility of feeding wiring through both arms.

Adaptable for fastenings of different diameters (from Ø34 mm to Ø76 mm)



TECHNICAL QUALITY

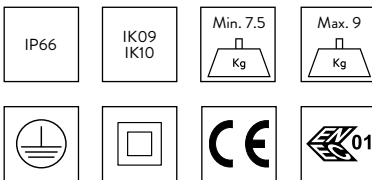
Simon has various production centres, both in Spain and around the world. All are equipped with advanced technology that allows us to maintain another of our basic principles for success: performing demanding tests and controls to guarantee the quality of all our products.

ALTAIR IYF

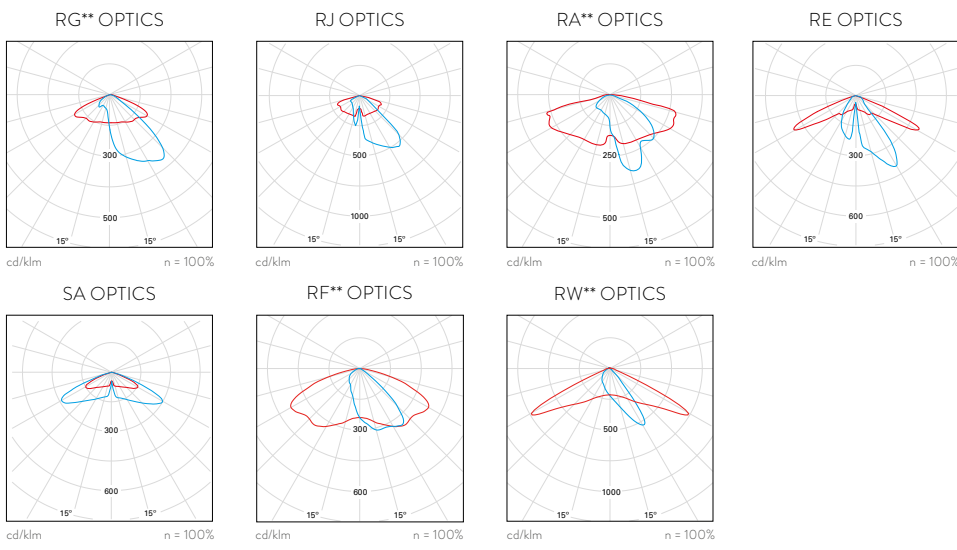
ISTANIUM[®]



LED DECORATIVE URBAN LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <5 % (E2 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

** Generic optics polar curve.

Simon **ALTAIR LED** luminaire, size **I**, made of die - cast aluminium. Post - top fastening with two Y-shaped arms constructed as a single injection - moulded part and with the possibility of feeding wiring through both arms.

Adaptation to fastenings from Ø34 mm to Ø76 mm depending on the adaptor.

Flat cover with internal honeycomb LED cooling system, no visible fins. Access to the electrical - optical group and maintenance via the top part, fastened with four captive screws that are invisible when installed.

6mm thick flat transparent tempered glass diffuser to facilitate cleaning and avoid UV radiation on the optics. **IP66** protection index for the complete luminaire, with pressure relief valve to keep the pressure constant and prevent moisture from entering, and an impact resistance index up to **IK10**.

Possibility of mounting up to seven multi - array optics, to guarantee the homogeneity of the photometry. Anti - glare, truncated pyramid - shaped reflector, matt with light flux recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 5%.

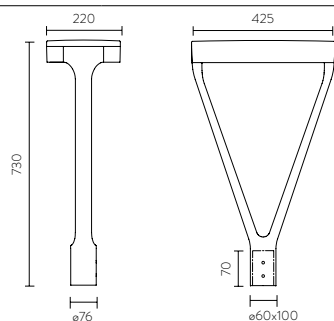
With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA. With automatic disconnection when opening the gear compartment.

Optional dimming without control line (self - dimming) 2N - . Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYDECO colour. Possibility of Simon and RAL chart finishes. Dimensions 425x730x220 mm.

ENEC certified luminaire.

DIMENSIONS AND FASTENING SYSTEMS



Post-top fastening	Ø60 mm, 100 mm long, With optional accessory from Ø34 mm to Ø76 mm
Surface exposed to the wind	0.066 m ²
Weight	Max. 9 kg Min. 7.5 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	From IK09 to IK10
Body	Die-cast aluminium
Cover	Die-cast aluminium
Closure system	Stainless steel screws
Fastening system	Die-cast aluminium
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
-------------	------------------------------------

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C		
Dimming**	2N - Without control line 1N (100%) Without dimming		
Luminaires supplied by electrical grid			
Supply voltage	220-240V AC		
Frequency	50 / 60 Hz		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)		
Power factor (cos φ at max. charge)	≥ 0.95		
Luminaire electrical protection	Class I or Class II		
Power according to models***	12 LEDs	16 LEDs	24 LEDs
Supply current			
HIGH EFFICIENCY	12 W	16 W	24 W
HIGH BALANCE	18 W	24 W	36 W
HIGH FLUX	24 W	32 W	49 W
VERY HIGH FLUX	37 W	50 W	75 W



CONFIGURE YOUR ALTAIR IYF LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
ALTIYF										Simon ALTAIR Istanium® LED, size I, Y-shaped arm post-top fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser IK09
	BTF									Flat transparent shatter-proof tempered glass diffuser IK10 maximum impact resistance
		0								Without installation wire (0 m)
		5								With installation wire (5 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			SA_							A Type Symmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
									<input type="radio"/> NDL	Neutral daylight - 4,000 K
									<input type="radio"/> WDL	Warm daylight – 3,000 K
									<input type="radio"/> SDL	Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,830 lm @ 4,000 K 12 LEDs
					_18W530					18 W 530 mA 2,760 lm @ 4,000 K 16 LEDs
					_24W700					24 W 700 mA 3,460 lm @ 4,000 K 12 LEDs
					_32W700					32 W 700 mA 4,280 lm @ 4,000 K 16 LEDs
					_37W_1K					37 W 1,050 mA 4,820 lm @ 4,000 K 12 LEDs
					_50W_1K					50 W 1,050 mA 5,800 lm @ 4,000 K 16 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
							2N_			Dimming without control line (self-dimming)
							1N_			Without dimming (on/off)
								C1		Class 1 Luminaire electrical protection
								C2		Class 2 Luminaire electrical protection
									GYDECO	Standard finish in Simon Decorative Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL Classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	ALTIYBTF0RJ_NDL_12W350IA23_1N_C1GYDECO	248-000380013
18 W	12	530 mA	ALTIYBTF0RJ_NDL_18W530IA23_1N_C1GYDECO	248-000379013
24 W	12	700 mA	ALTIYBTF0RJ_NDL_24W700IA23_1N_C1GYDECO	248-000378013
32 W	16	700 mA	ALTIYBTF0RJ_NDL_32W700IA23_1N_C1GYDECO	248-000183013
37 W	12	1,050 mA	ALTIYBTF0RJ_NDL_37W_1KIA23_1N_C1GYDECO	248-001170013
50 W	16	1,050 mA	ALTIYBTF0RJ_NDL_50W_1KIA23_1N_C1GYDECO	248-000439013

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



URBAN

ALTAIR IYF

COMBINE YOUR ALTAIR IYF LUMINAIRE WITH:

DECORATIVE POLES:

6 M

5 M

4 M

3 M

2 M

1 M

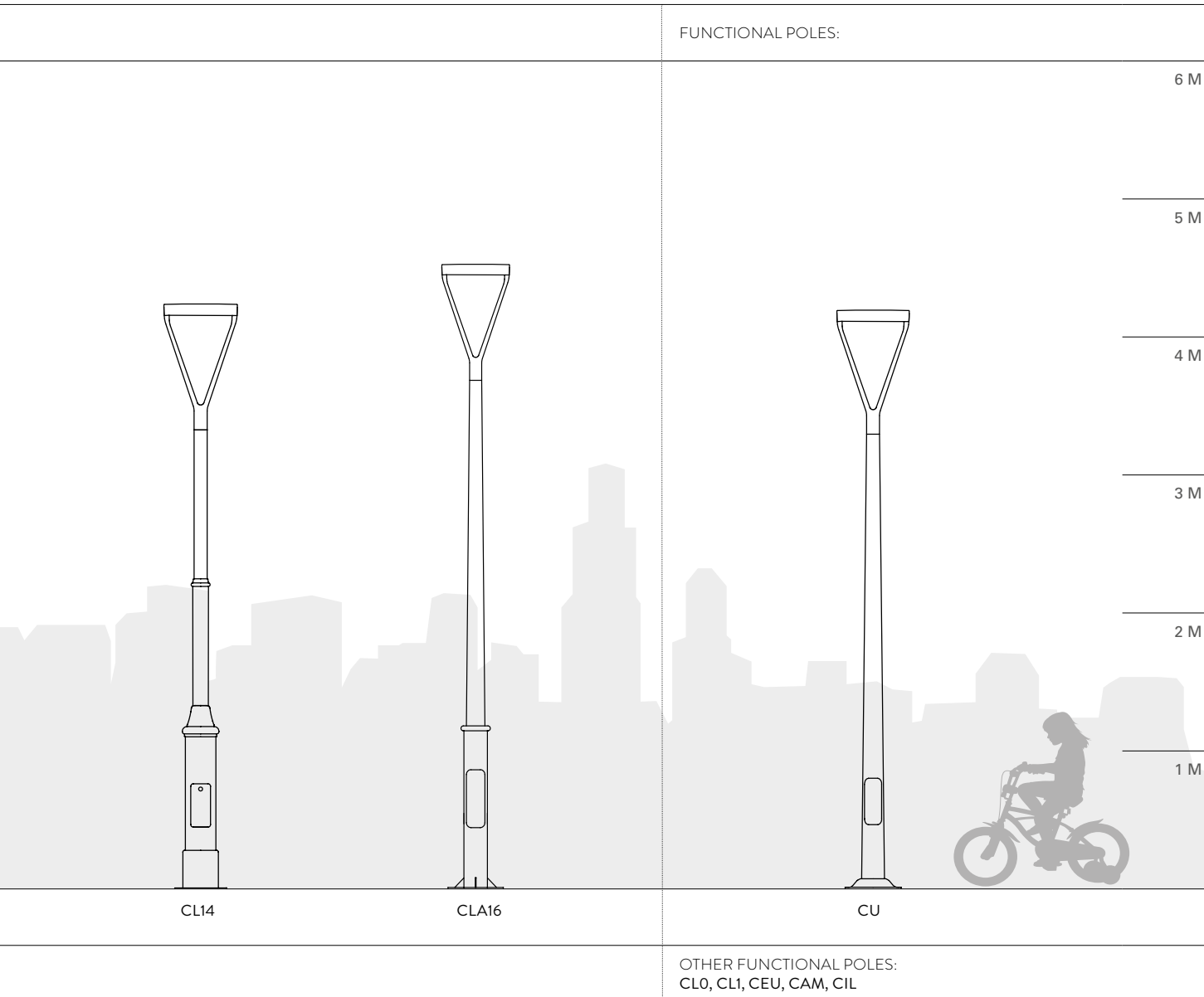


LIBRA

CL22

BABEL

OTHER DECORATIVE POLES:
CL12, LIBRA, CLB16



ACCESSORIES / REPLACEMENTS

	Description	Order code
	Lateral fastening accessory for Ø76 mm mount	50-88540
	Lateral fastening accessory for Ø76 mm mount, GYDECO finish	50-88540-013
	Replacement diffuser glass for ALTAIR IK10	50-73598

OTHER LUMINAIRES IN THE COLLECTION



ALTAIR IXF

URBAN

MERAK SYF



MERAK

SYF
ISTANIUM^{LED}®

Decorative luminaire, ideal
for intensive introduction
of LED technology

With a circular body and Y-shaped arms, it incorporates technical
innovations that allow instant technology updates.



Streets



Pedestrian streets



Commercial areas



Parks / gardens



Squares



Roundabouts / Intersections



MERA SYF

FEATURES

EASY TO UPGRADE

The electro-optic group is removable and upgradeable by means of a single piece, with a disconnection mechanism for automatic disconnection.



Tool-free opening



Automatic electric disconnection

DESIGN

Compact luminaire with a flat cover and an internal LED cooling system with a honeycomb design and no visible fins.



Depressor that allows high dust and water resistance - IP66

SECURITY

Automatic electrical disconnection when opening the luminaire. Possibility of incorporating surge protection for surges up to 10 kV



THERMAL MANAGEMENT

Internal refrigeration system to dissipate heat from the honeycomb LEDs, without fins, guaranteeing the service life of the LED and its optimal performance at high supply currents.



ORIENTATION

Post-top fastening with two Y-shaped arms constructed as a single injection-moulded part and with the possibility of feeding wiring through both arms.

Adaptable for fastenings of different diameters (from Ø34 mm to Ø76 mm)



TECHNICAL QUALITY

Simon has various production centres, both in Spain and around the world. All are equipped with advanced technology that allows us to maintain another of our basic principles for success: performing demanding tests and controls to guarantee the quality of all our products.



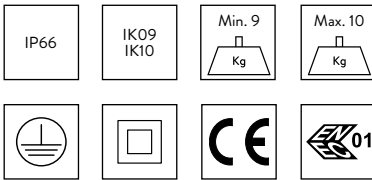
reddot award 2018
winner

MERAK SYF

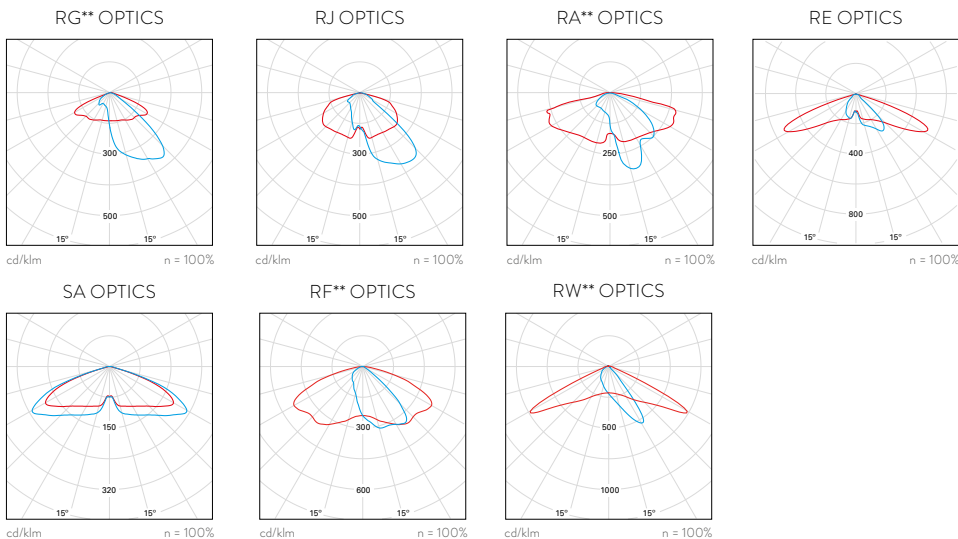
ISTANIUM[®]



LED DECORATIVE URBAN LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <5 % (E2 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

** Generic optics polar curve.

Simon **MERAK LED** luminaire, size **S**, made of die-cast aluminium. Post-top fastening with two Y-shaped arms constructed as a single injection-moulded part and with the possibility of feeding wiring through both arms.

Adaptation to fastenings from Ø34 mm to Ø76 mm depending on the adaptor.

Flat cover with internal honeycomb LED cooling system, no visible fins. Access to the electro-optical group and maintenance from the upper part with opening by means of two levers, without tools. The electro-optical group is removable and upgradeable in a single piece, with a disconnecter for automatic disconnection and a three-guide alignment system to avoid incorrect assemblies.

6 mm thick flat transparent tempered glass diffuser to facilitate cleaning and avoid UV radiation on the optics. **IP66** protection index for the complete luminaire, with pressure relief valve to keep the pressure constant and prevent moisture from entering, and an impact resistance rating of up to **IK10**.

Possibility of mounting up to ten multi-array optics, to guarantee the homogeneity of the photometry. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 5%.

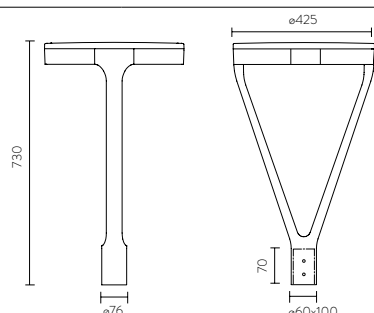
With **Class I** and **Class II** electronic control gear with 230 / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA. With automatic disconnection when opening the gear compartment.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, by telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYDECO colour. Possibility of Simon and RAL chart finishes. Dimensions 425x730x425 mm.

ENEC certified luminaire.

DIMENSIONS AND FASTENING SYSTEMS



Post-top fastening	Ø60 mm, 100 mm long With optional accessory from Ø34 mm to Ø76 mm
Surface exposed to the wind	0.066 m ²
Weight	Max. 10 kg Min. 9 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	From IK09 to IK10
Body	Die-cast aluminium
Cover	Die-cast aluminium
Closure system	Levers made of die-cast aluminium, tool-free opening
Fastening system	Die-cast aluminium
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
-------------	------------------------------------

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C			
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol			
	Luminaires supplied by electrical grid			
Supply voltage	220-240V AC			
Frequency	50 / 60 Hz			
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)			
Power factor (cos φ at max. charge)	≥ 0.95			
Luminaire electrical protection	Class I or Class II			
Power according to models***	16 LEDs	24 LEDs	40 LEDs	48 LEDs
Supply current				
HIGH EFFICIENCY	16 W	24 W	39 W	47 W
HIGH BALANCE	24 W	36 W	60 W	73 W
HIGH FLUX	32 W	49 W	81 W	97 W
VERY HIGH FLUX	50 W	75 W	-	-



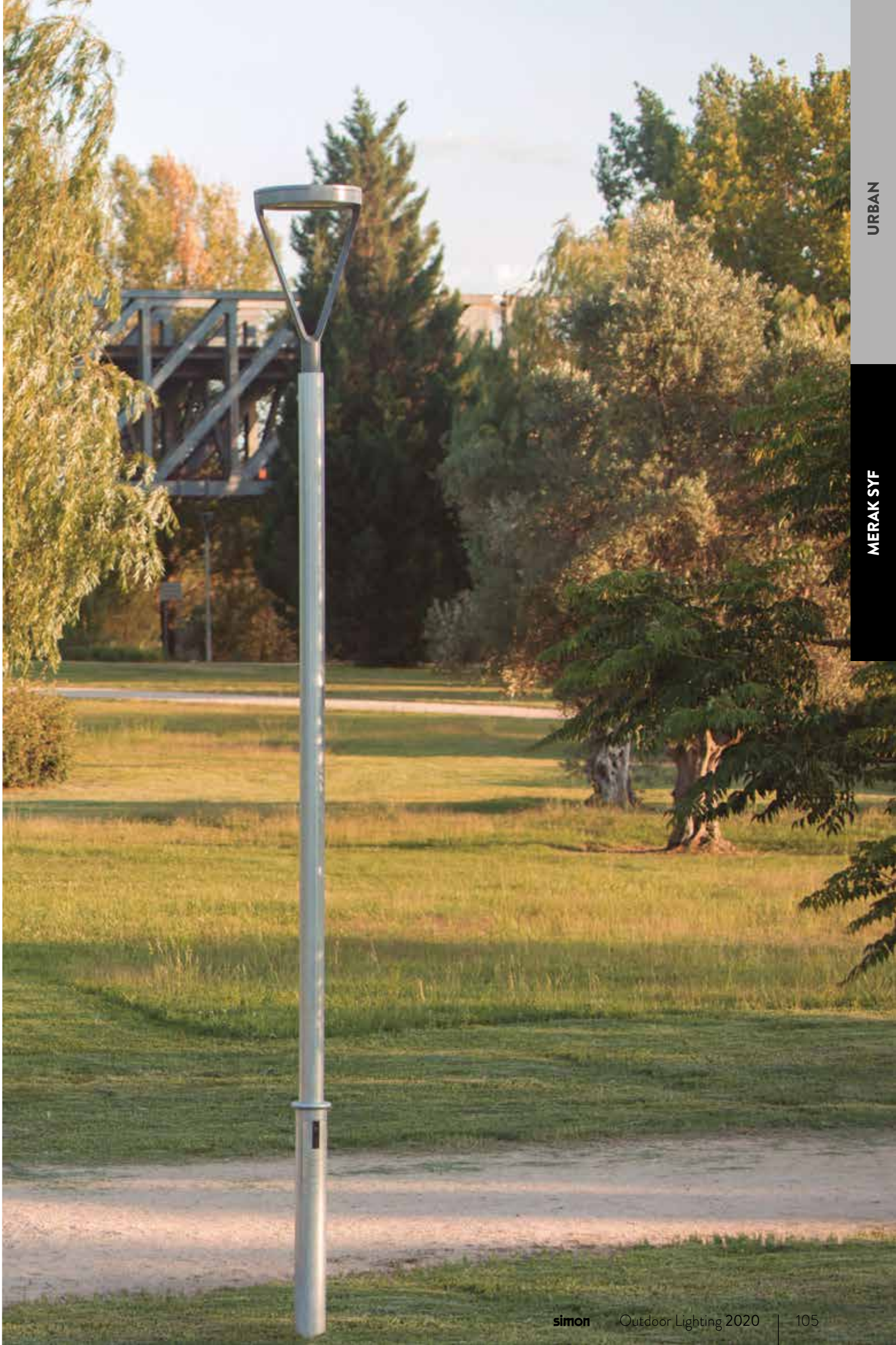
CONFIGURE YOUR MERAK SYF LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
MERSYF										Simon MERAK Istanium® LED, size S, Y-shaped arm post-top fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser IK09
	BTF									Flat transparent shatter-proof tempered glass diffuser IK10 maximum impact resistance
		0								Without installation wire (0 m)
		5								With installation wire (5 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			SA_							A Type Symmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
									<input type="radio"/> NDL	Neutral daylight - 4,000 K
									<input type="radio"/> WDL	Warm daylight – 3,000 K
									<input type="radio"/> SDL	Soft daylight - 2,700 K
					_16W350					16 W 350 mA
					_24W530					24 W 530 mA
					_32W700					32 W 700 mA
					_36W530					36 W 530 mA
					_49W700					49 W 700 mA
										2,500 lm @ 4,000 K
										3,550 lm @ 4,000 K
										4,430 lm @ 4,000 K
										5,150 lm @ 4,000 K
										6,380 lm @ 4,000 K
										16 LEDs
										16 LEDs
										16 LEDs
										24 LEDs
										24 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
						2N_				Dimming without control line (self-dimming)
						2N+				Dimming with control line
						1N_				Without dimming (on/off)
						CAD_				Cabinet amplitude dimming (electrical box dimmer)
						1-10				Dimming through 1.10 V input protocol
						DALI				Dimming through DALI input protocol
									C1	Class 1 Luminaire electrical protection
									C2	Class 2 Luminaire electrical protection
									GYDECO	Standard finish in Simon Decorative Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL Classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
16 W	16	350 mA	MERSYFBTF0RJ_NDL_16W350IA23_1N_C1GYDECO	244-000222013
24 W	16	530 mA	MERSYFBTF0RJ_NDL_24W530IA23_1N_C1GYDECO	244-000220013
32 W	16	700 mA	MERSYFBTF0RJ_NDL_32W700IA23_1N_C1GYDECO	244-000183013
36 W	24	530 mA	MERSYFBTF0RJ_NDL_36W530IA23_1N_C1GYDECO	244-000219013
49 W	24	700 mA	MERSYFBTF0RJ_NDL_49W700IA23_1N_C1GYDECO	244-000186013

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



URBAN

MERAK SYF

COMBINE YOUR MERAK SYF LUMINAIRE WITH:

DECORATIVE POLES:

6 M

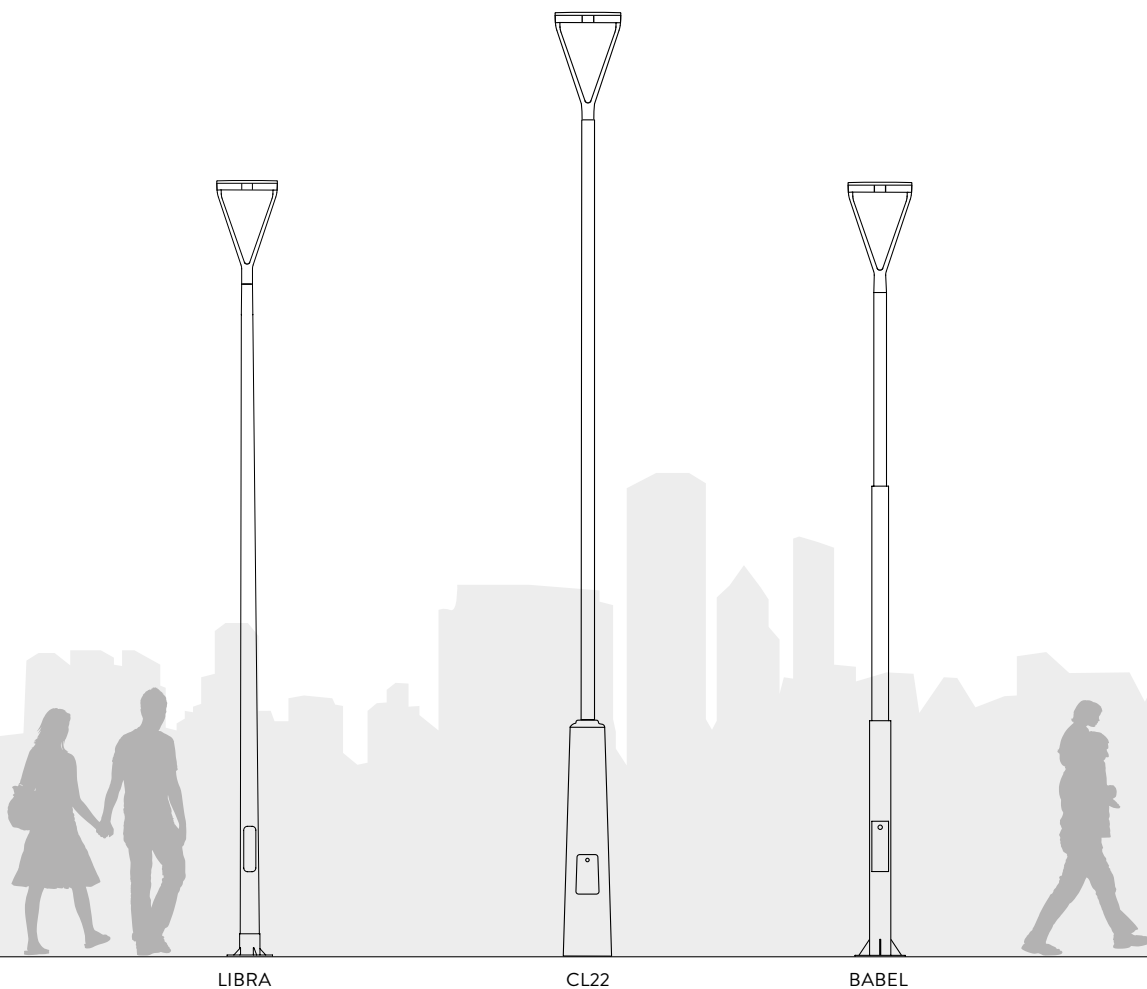
5 M

4 M

3 M

2 M

1 M



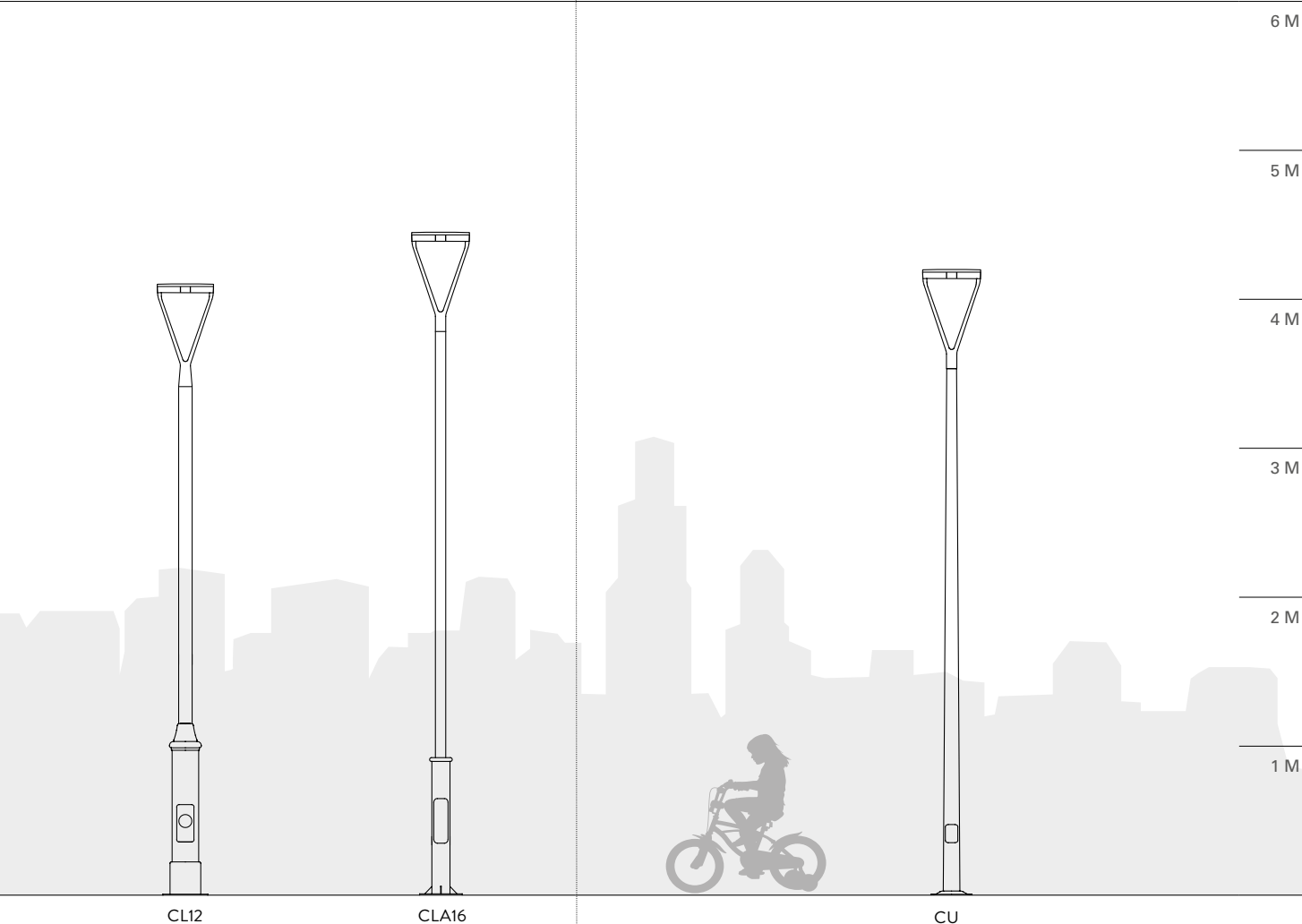
LIBRA

CL22

BABEL



OTHER DECORATIVE POLES:
CL14, LIBRA, CLB21, CLB16

FUNCTIONAL POLES:



OTHER FUNCTIONAL POLES:
CL0, CL1, CEU, CAM, CIL

ACCESSORIES / REPLACEMENTS

	Description	Order code
	Fastening accessory for Ø76 mm mount	50-88540
	Fastening accessory for Ø76 mm mount, GYDECO finish	50-88540-013

OTHER LUMINAIRES IN THE COLLECTION



MERAK SXF

URBAN

SKAT



SKAT

S / M

ISTANIUM^{LED}®

Simon's SKAT decorative urban luminaire shows a strong commitment to elegance without neglecting the highest technological standards

From latest range of decorative LED luminaires. It is impact resistant and has a cooling system, a diffuser for high visual comfort, and other advanced features.



Streets



Pedestrian streets



Commercial areas



Parks / gardens



Squares



SKAT

FEATURES

DESIGN

Decorative luminaire that applies innovative technical concepts to offer excellent lighting flexibility, allowing it to be used in multiple urban and private environments.

There are two models: Skat S and Skat M.

COLLECTION



Skat M

Skat S



OPTICS AND LIGHTING SOLUTIONS

The wide variety of optics allows the optimization and precise direction of light flux, adapting it to the needs of each project.

LIGHTING VERSATILITY

A VERSATILE luminaire ideal for the most demanding environments where EFFICIENCY is key, or whenever greater VISUAL COMFORT is needed.

ASSEMBLY

Ø60 mm post-top fastening. Adaptable for fastenings of different diameters (from Ø34 mm to Ø76 mm)



TECHNICAL QUALITY

Simon has various production centres, both in Spain and around the world. All are equipped with advanced technology that allows us to maintain another of our basic principles for success: performing demanding tests and controls to guarantee the quality of all our products.



SKAT S

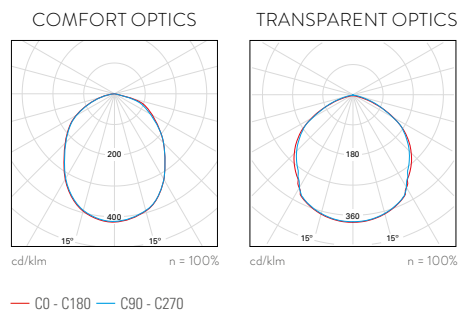
ISTANIUM^{LED}®



LED DECORATIVE URBAN LUMINAIRE

IP66	IK08	Min. 4.5 Kg	Max. 5 Kg

COLOUR TEMP.: ND 4000 K | WDL 3000 K
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 50,000 h



Simon **SKAT LED** decorative luminaire, size **S**, made of die-cast aluminium. Post-top fastening.

Adaptation to fastenings from $\varnothing 34$ mm to $\varnothing 76$ mm depending on the adaptor.

Flat covering with internal LED cooling system, without visible fins. Access to the gear and maintenance via the top part, fastened with six stainless steel screws that are invisible when installed.

Transparent PMMA high-impact resistant (HIR) diffuser to facilitate cleaning and prevent UV radiation in the optics, option of high impact resistance opal "comfort" PMMA diffuser. **IP66** protection rating for the complete luminaire, with safety valve to keep the pressure constant and prevent moisture entry, and impact resistance rating of **IK08**.

With pre-wiring of 10 cm and IP67 connector.

May be installed in one photometric distribution.

Possibility of two colour temperatures in white light.

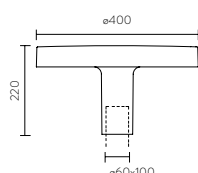
LED service life L90 B10 50,000 hours. Instantaneous LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Upward Light Output Ratio (inst. ULOR) of less than 1%.

With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming without control line (self-dimming) 2N-.

Standard finish in Simon GYDECO colour. Possibility of Simon and RAL chart finishes. Dimensions 400x220x400 mm.

DIMENSIONS AND FASTENING SYSTEMS



Post-top fastening	$\varnothing 60$ mm, 100 mm long
Surface exposed to the wind	0.034 m ²
Weight	Max. 5 kg Min. 4.5 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08
Body	Die-cast aluminium
Closure system	With 6 stainless steel screws
Fastening system	Die-cast aluminium
Diffuser	ATF: Transparent PMMA with high impact resistance (HIR) AOF: Opal PMMA with high impact resistance

FINISHES

Body	Simon Colours RAL chart colours
-------------	------------------------------------

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 1N (100%) Without dimming
	Luminaires supplied by electrical grid
Supply voltage	220-240V AC
Frequency	50 / 60 Hz
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)
Power factor (cos ϕ at max. charge)	≥ 0.95
Luminaire electrical protection	Class I or Class II
Power according to models***	60 LEDs
Supply current	
HIGH EFFICIENCY	25 W
HIGH BALANCE	38 W
HIGH FLUX	-
VERY HIGH FLUX	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 5 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** The luminaire power can vary around $\pm 7\%$ regarding those published according to environmental condition and/or the constant progress that technology undergoes.



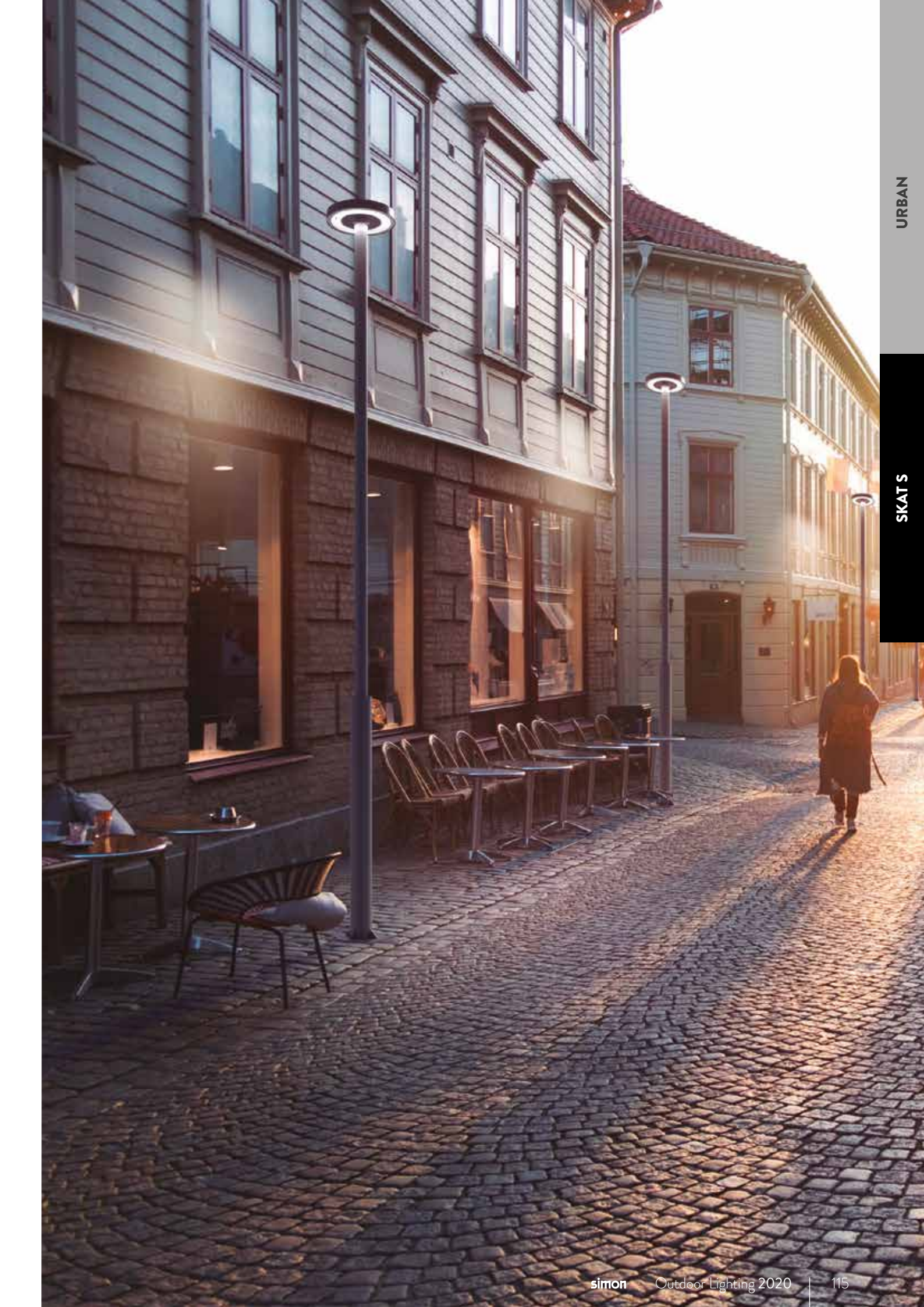
CONFIGURE YOUR SKAT S LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
SKASPF										Simon SKAT Istanium® LED, size S, Ø60 mm post-top fastening, flat cover
	ATF									Flat transparent PMMA high-impact resistant diffuser
	AOF									Flat opal PMMA high-impact resistant diffuser
		P								With 10-cm pre-wiring and IP67 connector
			WB							Extensive symmetrical distribution
				<input type="radio"/> NDL						Neutral daylight - 4,000 K
				<input type="radio"/> WDL						Warm daylight – 3,000 K
					_25W350					25 W 350 mA
					_38W530					38 W 530 mA
										3,560 lm @ 4,000 K (ATF diffuser) 60 LEDs
										5,000 lm @ 4,000 K (ATF diffuser) 60 LEDs
										3,080 lm @ 4,000 K (AOF diffuser) 60 LEDs
						IM23				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IM23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
							2N			Dimming without control line (self-dimming)
							1N			Without dimming (on/off)
								C1		Class 1 Luminaire electrical protection
								C2		Class 2 Luminaire electrical protection
									GYDECO	Standard finish in Simon Decorative Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL Classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
25 W	60	350 mA	SKASPFATFPWB_NDL_25W350IM23_1N__C1GYDECO	286-002274013
38 W	60	530 mA	SKASPFATFPWB_NDL_38W530IM23_1N__C1GYDECO	286-001433013

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



COMBINE YOUR SKAT S LUMINAIRE WITH:

DECORATIVE POLES:

6 M

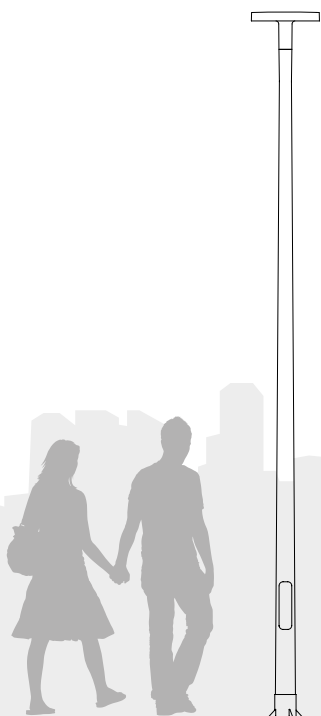
5 M

4 M

3 M

2 M

1 M

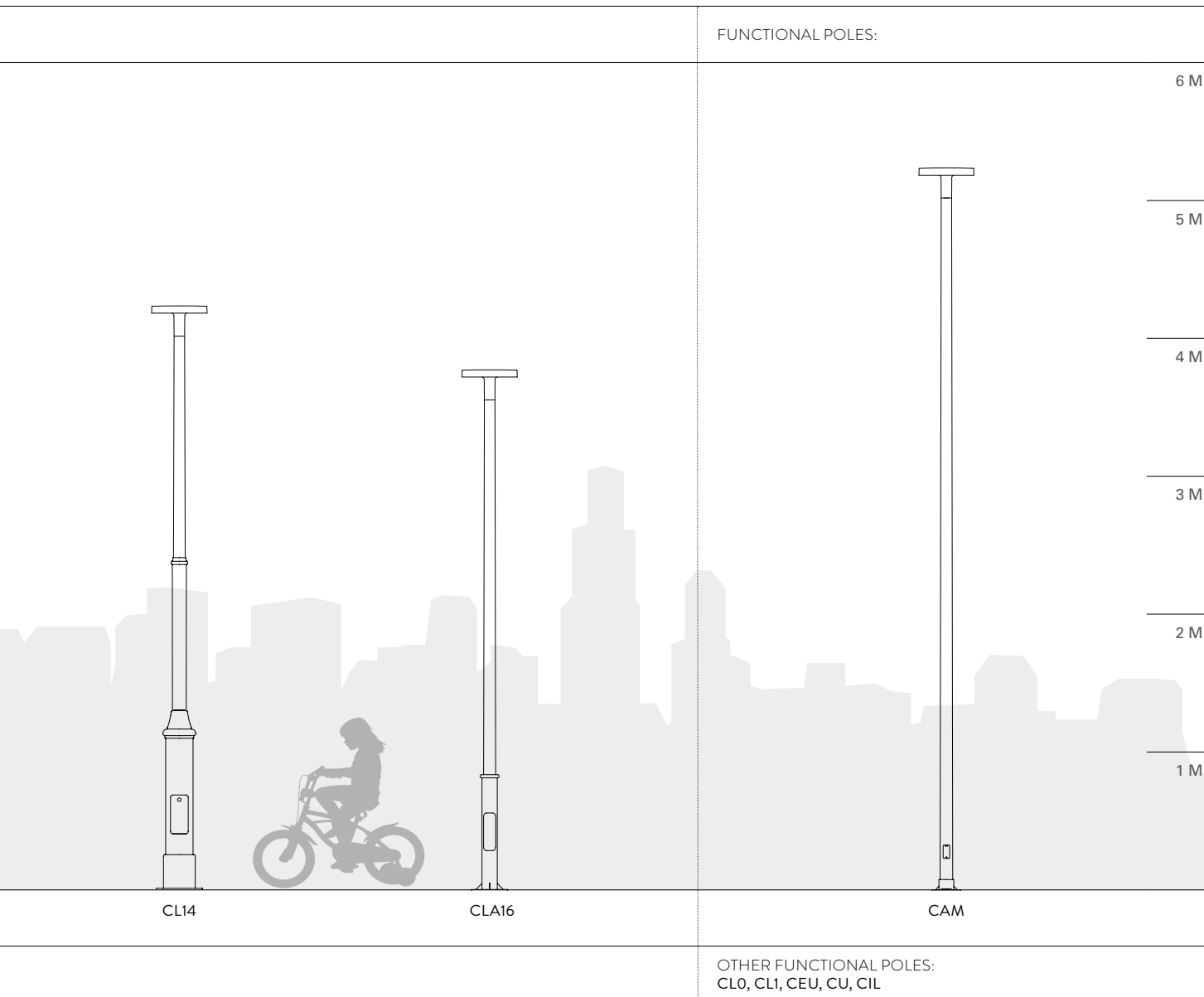


LIBRA





BABEL

OTHER DECORATIVE POLES:
CL12, CLB16



ACCESSORIES / REPLACEMENTS

	Description	Order code
	Fastening accessory for Ø76 mm mount	50-88540
	Fastening accessory for Ø76 mm mount, GYDECO finish	50-88540-013

OTHER LUMINAIRES IN THE COLLECTION



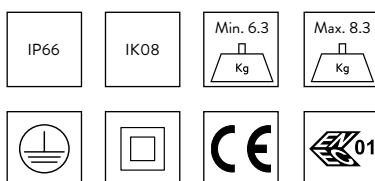
SKAT M

SKAT M

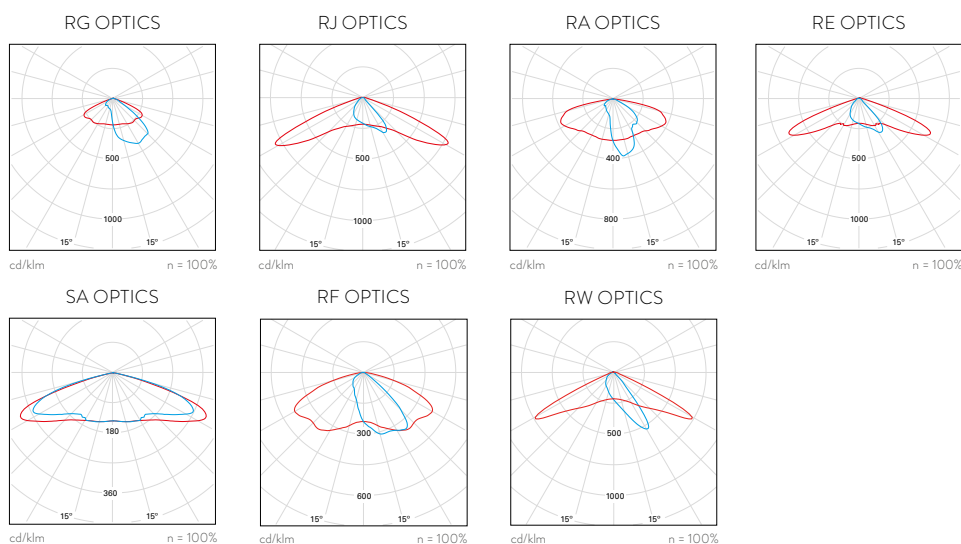
ISTANIUM^{LED}®



LED DECORATIVE URBAN LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **SKAT LED** decorative luminaire, size **M**, made of die - cast aluminium. Post - top fastening.

Adaptation to fastenings from Ø34 mm to Ø76 mm depending on the adaptor.

Flat covering with internal LED cooling system, without visible fins. Access to the gear and maintenance via the top part, fastened with six stainless steel screws that are invisible when installed.

Transparent PMMA high - impact resistant (HIR) diffuser to facilitate cleaning and prevent UV radiation in the optics. **IP66** protection rating for the complete luminaire, with safety valve to keep the pressure constant and prevent moisture entry, and impact resistance rating of **IK08**

With pre - wiring of 10 cm and IP67 connector.

Capacity of up to ten multi - array optics and fourteen photometric distributions. Anti - glare, truncated cone - shaped reflector, matt with light - flow recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

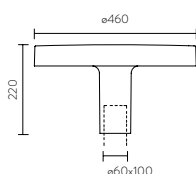
LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

With **Class I** and **Class II** electronic control gear with 230V AC/50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming without control line (Self - dimming) 2N - and by remote management with 1.10V or DALI input. Custom programming and optional constant output flow maintenance ().

Standard finish in Simon GYDECO colour. Possibility of Simon and RAL chart finishes. Dimensions 460x220x460 mm.

DIMENSIONS AND FASTENING SYSTEMS



Post-top fastening	Ø60 mm, 100 mm long
Surface exposed to the wind	0.037 m ²
Weight	Max. 8.3 kg Min. 6.3 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08
Body	Die-cast aluminium
Closure system	With 6 stainless steel screws
Fastening system	Die-cast aluminium
Diffuser	Transparent PMMA with high impact resistance (HIR)

FINISHES

Body	Simon Colours RAL chart colours
-------------	------------------------------------

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N - Without control line 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol

Luminaires supplied by electrical grid

Supply voltage	220-240V AC		
Frequency	50 / 60 Hz		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)		
Power factor (cos φ at max. charge)	≥ 0.95		
Luminaire electrical protection	Class I or Class II		
Power according to models***	12 LEDs	16 LEDs	24 LEDs
Supply current			
HIGH EFFICIENCY	12W	16 W	24 W
HIGH BALANCE	18 W	24 W	36 W
HIGH FLUX	24 W	32 W	49 W
VERY HIGH FLUX	-	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 5 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



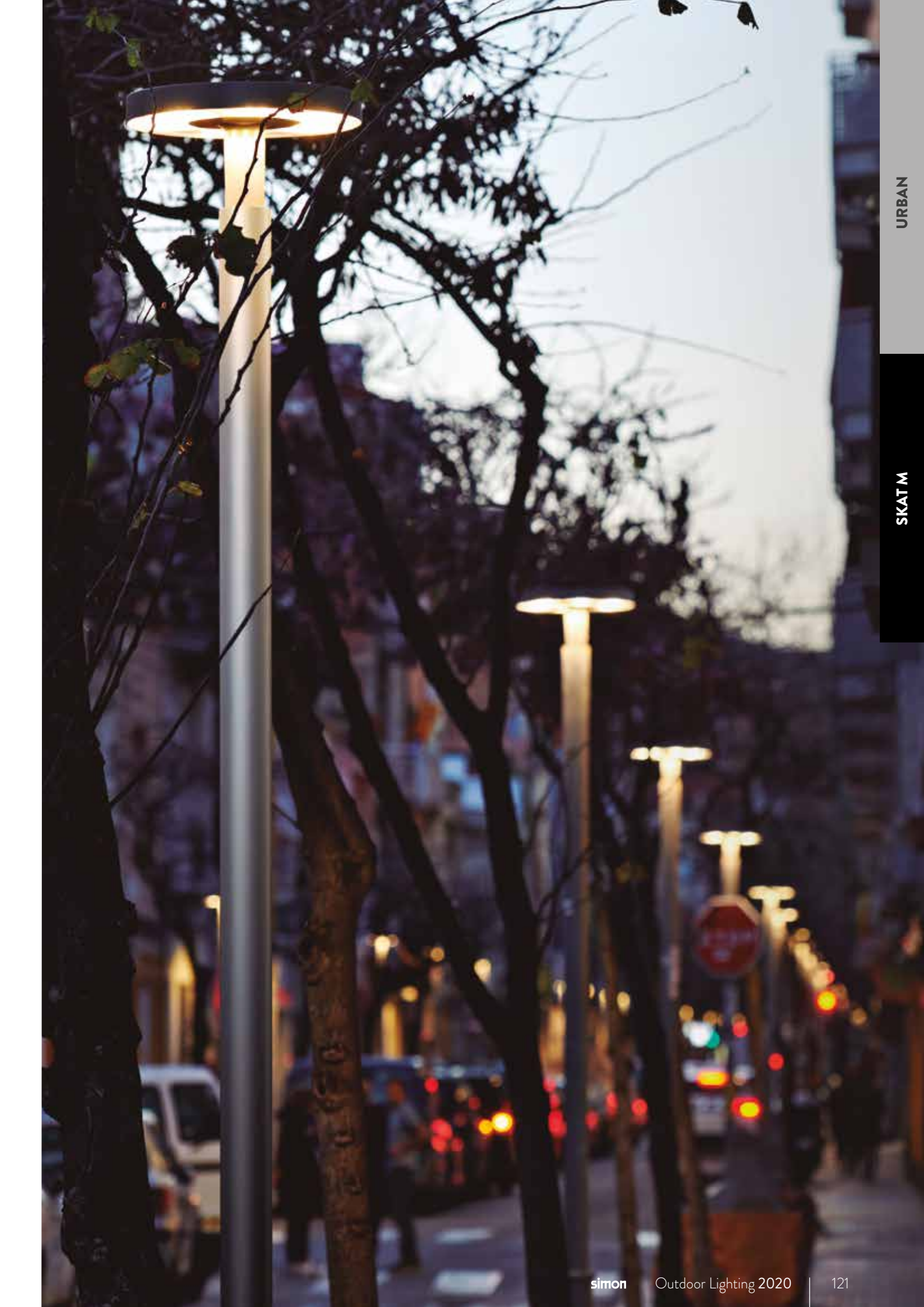
CONFIGURE YOUR SKAT M LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
SKAMPF										Simon SKAT Istanium® LED, size M, Ø60 mm post-top fastening, flat cover
	ATF									Flat transparent PMMA high-impact resistant diffuser
		P								With 10-cm pre-wiring and IP67 connector
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			SA_							A Type Symmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
									<input type="radio"/> NDL	Neutral daylight - 4,000 K
									<input type="radio"/> WDL	Warm daylight – 3,000 K
									<input type="radio"/> SDL	Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,690 lm @ 4,000 K 12 LEDs
					_18W530					18 W 530 mA 2,400 lm @ 4,000 K 12 LEDs
					_24W700					24 W 700 mA 2,980 lm @ 4,000 K 12 LEDs
					_32W700					32 W 700 mA 4,010 lm @ 4,000 K 16 LEDs
					_36W530					36 W 530 mA 4,760 lm @ 4,000 K 24 LEDs
					_49W700					49 W 700 mA 5,950 lm @ 4,000 K 24 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
							2N-_			Dimming without control line (self-dimming)
							1N_			Without dimming (on/off)
							1-10			Dimming through 1.10 V input protocol
							DALI			Dimming through DALI input protocol
								C1		Class 1 Luminaire electrical protection
								C2		Class 2 Luminaire electrical protection
									GYDECO	Standard finish in Simon Decorative Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL Classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	SKAMPFATFPRJ_NDL_12W350IA23_1N_C1GYDECO	284-000380013
18 W	12	530 mA	SKAMPFATFPRJ_NDL_18W530IA23_1N_C1GYDECO	284-000379013
24 W	24	700 mA	SKAMPFATFPRJ_NDL_24W700IA23_1N_C1GYDECO	284-000378013
32 W	16	700 mA	SKAMPFATFPRJ_NDL_32W700IA23_1N_C1GYDECO	284-000183013
36 W	24	530 mA	SKAMPFATFPRJ_NDL_36W530IA23_1N_C1GYDECO	284-000219013
49 W	24	700 mA	SKAMPFATFPRJ_NDL_49W700IA23_1N_C1GYDECO	284-000186013

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



URBAN

SKAT M

COMBINE YOUR SKAT M LUMINAIRE WITH:

DECORATIVE POLES:

6 M

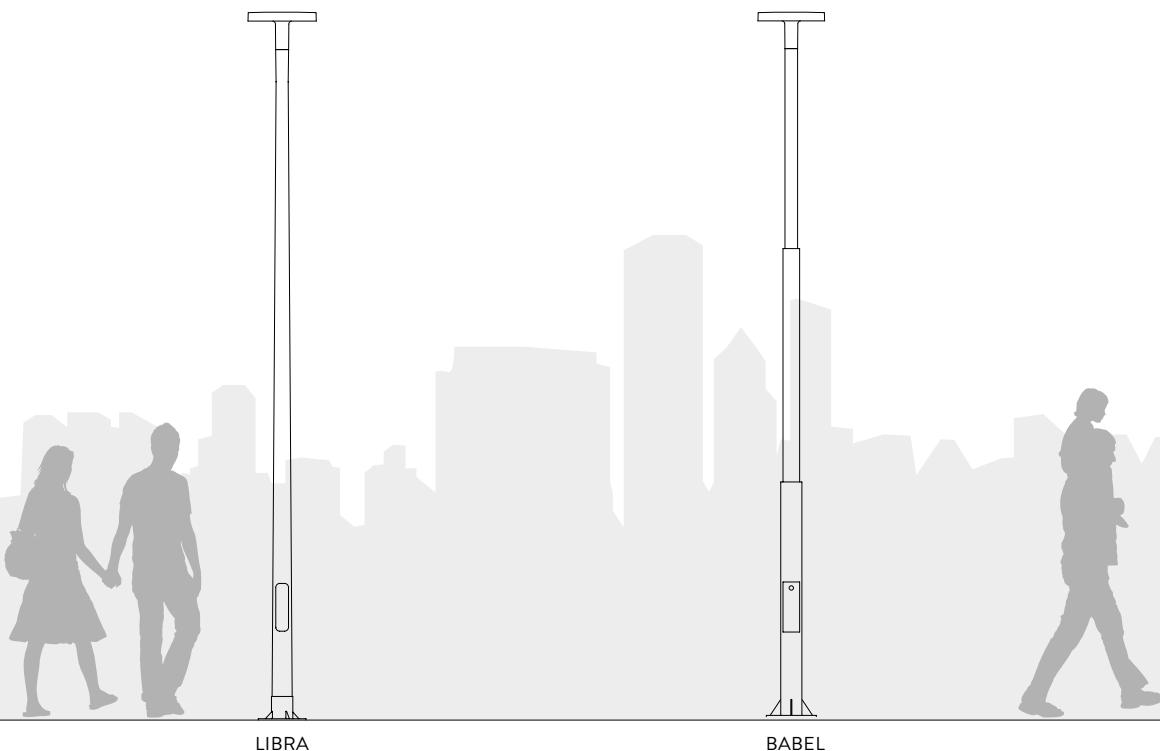
5 M

4 M

3 M

2 M

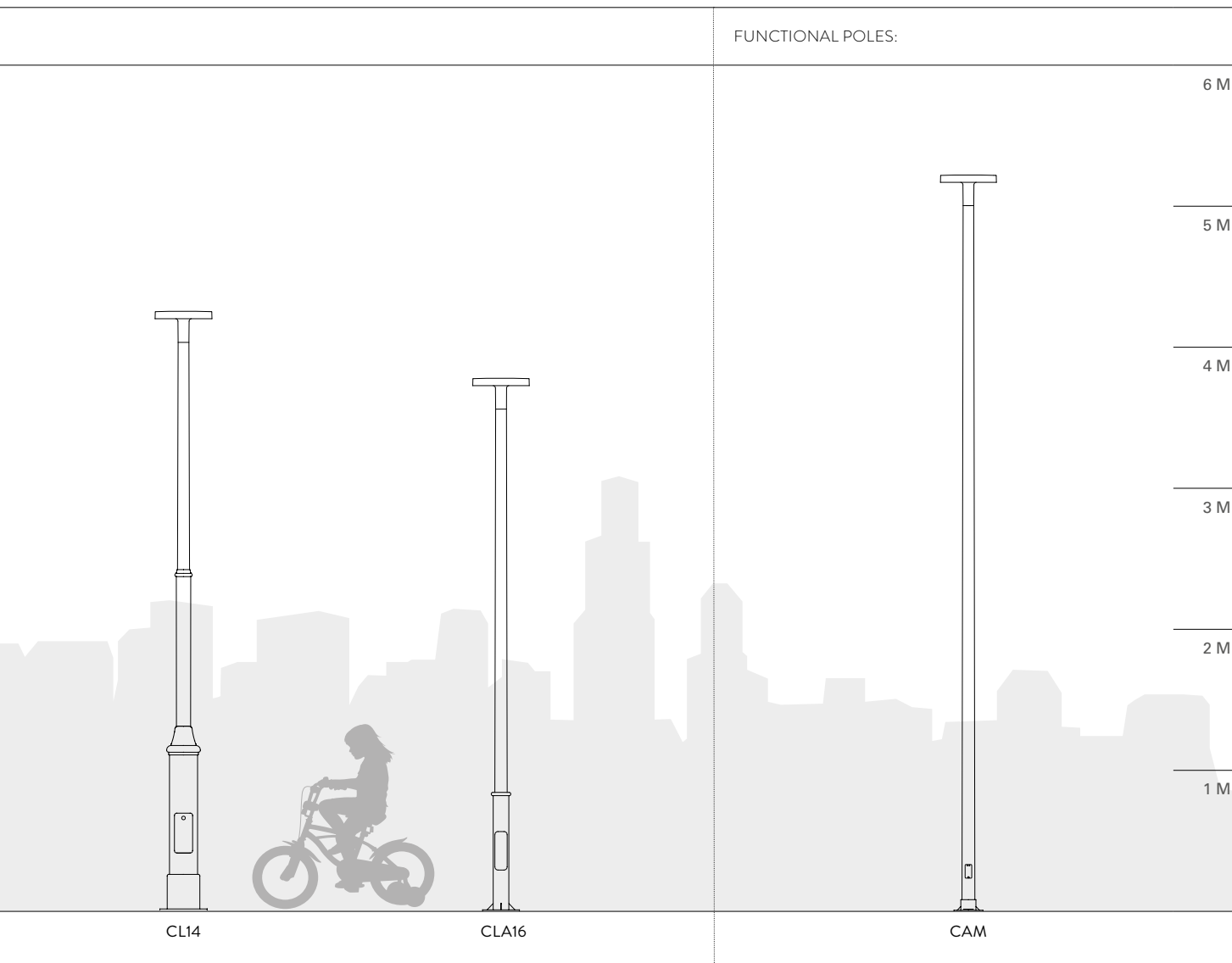
1 M



LIBRA

BABEL



OTHER DECORATIVE POLES:
CL12, CLB16



FUNCTIONAL POLES:

OTHER FUNCTIONAL POLES:
CL0, CL1, CEU, CU, CIL

ACCESSORIES / REPLACEMENTS

	Description	Order code
	Fastening accessory for Ø76 mm mount	50-88540
	Fastening accessory for Ø76 mm mount, GYDECO finish	50-88540-013

OTHER LUMINAIRES IN THE COLLECTION



SKAT S

URBAN

ALYA





ALYA

ISTANIUM^{LED}®

Decorative luminaire, ideal for intensive introduction of LED technology

Simon ALYA Istanium LED urban decorative luminaire made of die-cast aluminium, with lateral or suspended fastening. It provides necessary public lighting with maximum energy efficiency.



Parking areas



Avenues



Streets



Pedestrian streets



Commercial areas



Parks / gardens



Squares



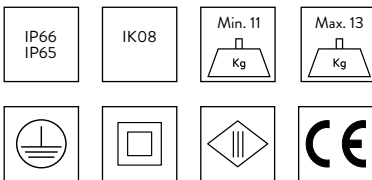
Roundabouts / Intersections



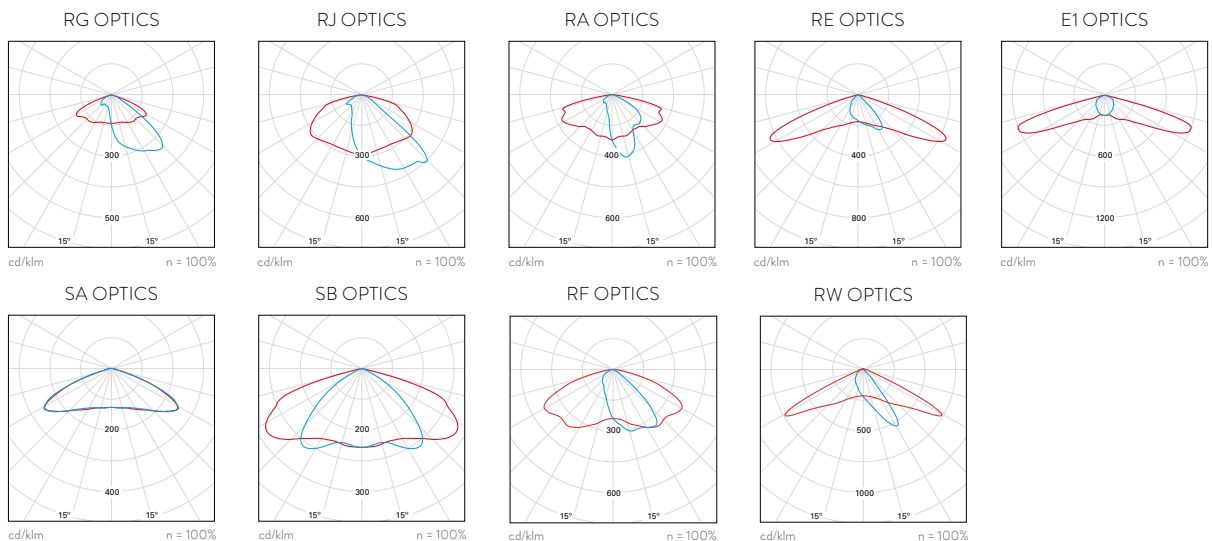
ALYA

ISTANIUM[®]

LED DECORATIVE URBAN LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **ALYA LED** luminaire, size L, made of die-cast aluminium. Ø60 x 100 mm lateral fastening, or suspended fastening by means of a ¾" G x 50 mm threaded coupling, or fastening to catenary by means of wire grip.

Adaptation to fastenings from Ø34 mm to Ø76 mm depending on the adaptor for the lateral fastening model.

Spherical cover. Internal refrigeration fins. Access to the gear and maintenance from the bottom with opening through two stainless steel Allen M8 screws on the top. Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. Protection rating for the Istanium LED optical group and **IK08** impact resistance rating.

Possibility of mounting up to ten multi-array optics. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery.

Possibility of three colour temperatures in white light and PCA (Phosphor Converted Amber) for specially protected areas.

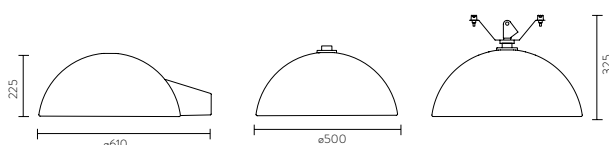
LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

With Class I and Class II electronic control gear with 230V AC/ 50 Hz supply voltage and Class III with A 12/24V AC supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, by telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYDECO colour and trim ring in Simon BKTECH colour. Dimensions 610x225x500 mm for lateral fastening model, 500x225x500 mm for suspended fastening model and 500x325x500 mm for catenary fastening model.

DIMENSIONS AND FASTENING SYSTEMS



Lateral fastening	Ø60 mm, 100 mm long, 5° angle
Suspended fastening	¾" G threaded coupling, 50 mm long
Catenary fastening	Fastening part with wire grip
Surface exposed to the wind	0.10 m²
Weight	Min. 11 kg Max. 13 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66 / IP65
IK	IK08
Body	Die-cast aluminium
Closure system	With stainless steel screws
Lateral fastening system	Die-cast aluminium
Catenary fastening system	Galvanised steel sheet
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
Trim ring	BKTECH

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C					
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol					
Supply voltage	Luminaires supplied by electrical grid			Luminaires supplied by solar lighting points		
	220-240V AC			12 / 24V DC		
Frequency	50 / 60 Hz			-		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)			-		
Power factor (cos φ at max. charge)	≥ 0.95			-		
Luminaire electrical protection	Class I or Class II			Class III		
Power according to models***	12 LEDs	24 LEDs	36 LEDs	48 LEDs	60 LEDs	72 LEDs
Supply current	1 module	2 module	3 module	4 module	5 module	6 module
HIGH EFFICIENCY	12 W	24 W	35 W	47 W	59 W	71 W
HIGH BALANCE	18 W	36 W	54 W	73 W	91 W	109 W
HIGH FLUX	24 W	49 W	73 W	-	-	-
VERY HIGH FLUX	-	-	-	-	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 5 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



CONFIGURE YOUR ALYA LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
ALYLHS										Simon ALYA Istanium® LED luminaire, size L, ¾ " G suspended fastening, spherical cover
ALYLAS										Simon ALYA Istanium® LED, size L, Ø60 mm lateral fastening, spherical cover
ALYLCS										Simon ALYA Istanium® LED, size L, catenary fastening, spherical cover
	GTF									Flat transparent shatter-proof tempered glass diffuser
		0								Without installation wire (0 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			E1_							1 Type Elliptical Road Light Optics*
			SA_							A Type Symmetric Optics
			SB_							B Type Symmetric Optics*
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
				<input type="radio"/> NDL						Neutral daylight - 4,000 K
				<input type="radio"/> WDL						Warm daylight – 3,000 K
				<input type="radio"/> SDL						Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,760 lm @ 4,000 K 12 LEDs
					_24W700					24 W 700 mA 3,360 lm @ 4,000 K 12 LEDs
					_36W530					36 W 530 mA 4,960 lm @ 4,000 K 24 LEDs
					_49W700					49 W 700 mA 6,330 lm @ 4,000 K 24 LEDs
					_54W530					54 W 530 mA 7,390 lm @ 4,000 K 36 LEDs
					_73W700					73 W 700 mA 9,300 lm @ 4,000 K 36 LEDs
					_91W530					91 W 530 mA 12,340 lm @ 4,000 K 60 LEDs
					109W530					109 W 530 mA 14,590 lm @ 4,000 K 72 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
						IA12_				Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming
						2N_-				Dimming without control line (self-dimming)
						2N+				Dimming with control line
						1N_				Without dimming (on/off)
						CAD_				Cabinet amplitude dimming (electrical box dimmer)
						1-10				Dimming through 1.10 V input protocol
						DALI				Dimming through DALI input protocol
						C1				Class 1 Luminaire electrical protection
						C2				Class 2 Luminaire electrical protection
						C3				Class 3 (DC exclusive)
									GYDECO	Standard finish in Simon Decorative Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL Classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	ALYLASGTFORJ_NDL_12W350IA23_1N__C1GYDECO	209-000380013
12 W	12	350 mA	ALYLHSGTFORJ_NDL_12W350IA23_1N__C1GYDECO	208-000380013
24 W	12	700 mA	ALYLASGTFORJ_NDL_24W700IA23_1N__C1GYDECO	209-000378013
24 W	12	700 mA	ALYLHSGTFORJ_NDL_24W700IA23_1N__C1GYDECO	208-000378013
36 W	24	530 mA	ALYLASGTFORJ_NDL_36W530IA23_1N__C1GYDECO	209-000219013
36 W	24	530 mA	ALYLHSGTFORJ_NDL_36W530IA23_1N__C1GYDECO	208-000219013
49 W	24	700 mA	ALYLASGTFORJ_NDL_49W700IA23_1N__C1GYDECO	209-000186013
49 W	24	700 mA	ALYLHSGTFORJ_NDL_49W700IA23_1N__C1GYDECO	208-000186013
54 W	36	530 mA	ALYLASGTFORJ_NDL_54W530IA23_1N__C1GYDECO	209-000375013
54 W	36	530 mA	ALYLHSGTFORJ_NDL_54W530IA23_1N__C1GYDECO	208-000375013
73 W	36	700 mA	ALYLASGTFORJ_NDL_73W700IA23_1N__C1GYDECO	209-000371013
73 W	36	700 mA	ALYLHSGTFORJ_NDL_73W700IA23_1N__C1GYDECO	208-000371013
91 W	60	530 mA	ALYLASGTFORJ_NDL_91W530IA23_1N__C1GYDECO	209-000369013
91 W	60	530 mA	ALYLHSGTFORJ_NDL_91W530IA23_1N__C1GYDECO	208-000369013
109 W	72	530 mA	ALYLASGTFORJ_NDL109W530IA23_1N__C1GYDECO	209-000367013
109 W	72	530 mA	ALYLHSGTFORJ_NDL109W530IA23_1N__C1GYDECO	208-000367013

* Available with ALYLCS model

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



URBAN

ALYA

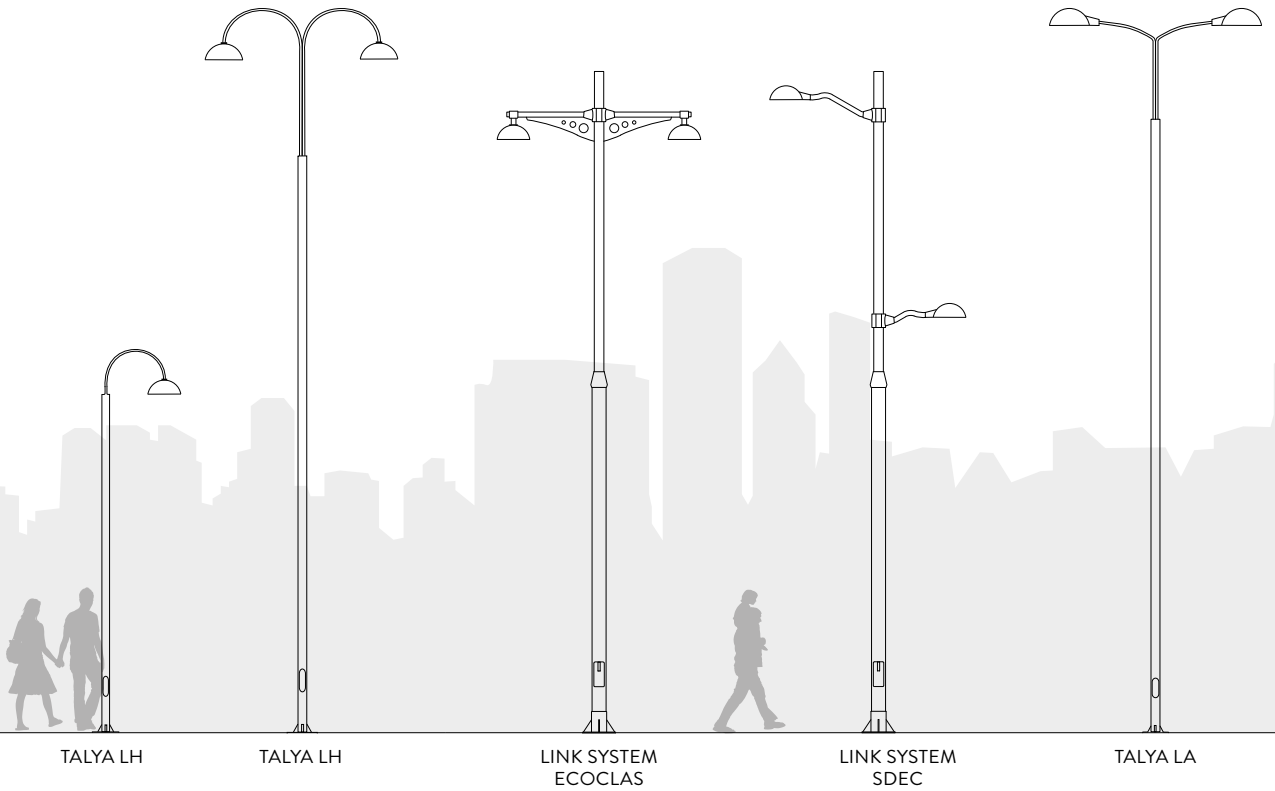
COMBINE YOUR ALYA LUMINAIRE WITH:

DECORATIVE POLES:

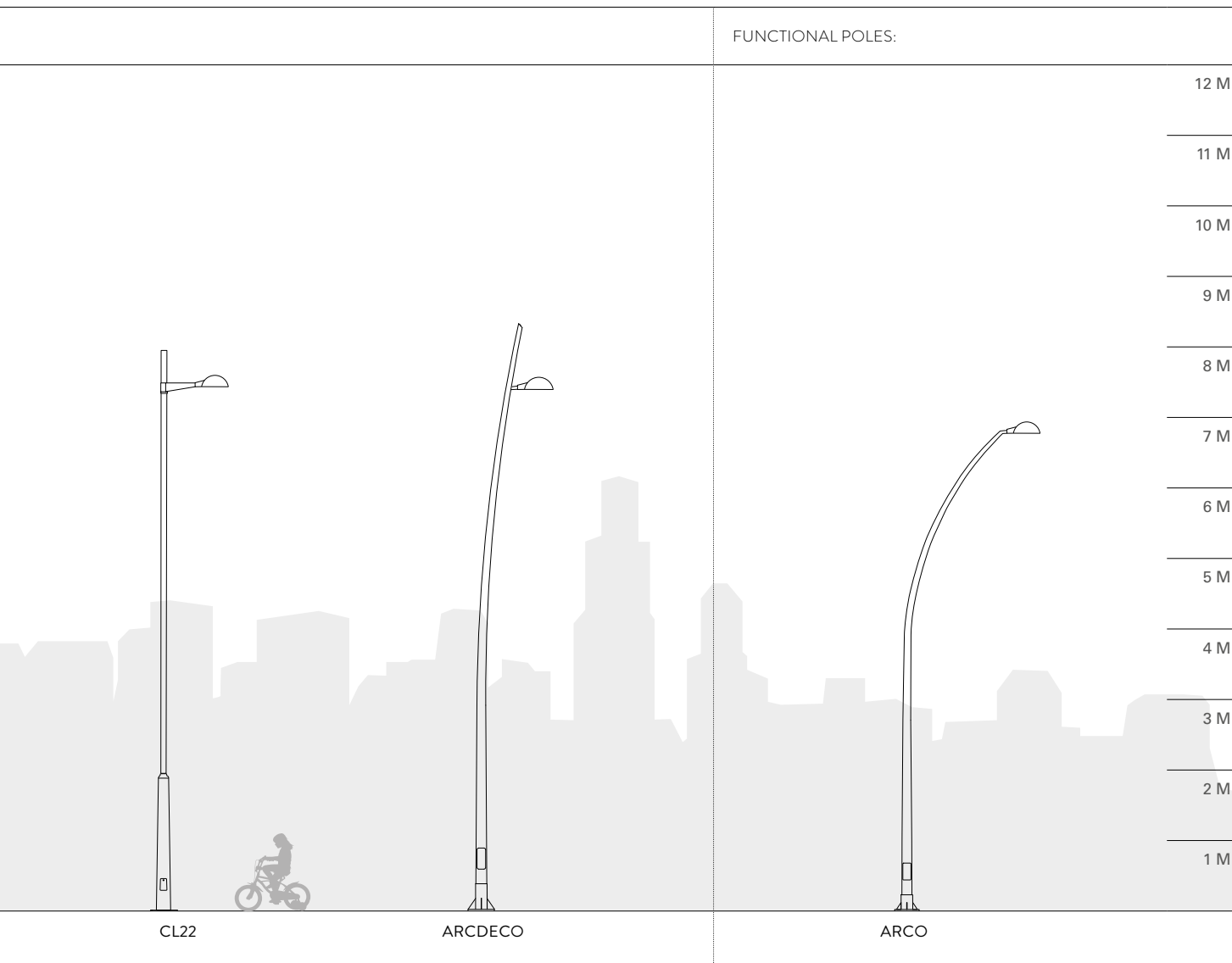


URBAN

ALYA



OTHER DECORATIVE POLES:
UNO SYSTEM, LIMA, DIAGONAL, ESBELTA, BANDEROLE, BABEL, ROCKET, ARCDECO



OTHER FUNCTIONAL POLES:
BC1, BEU, BAM

ACCESSORIES / REPLACEMENTS

Description	Order code
Fastening accessory for Ø76 mm mount	50-88540
Fastening accessory for Ø48 mm mount	5-531784

ACCESSORIES / REPLACEMENTS

Description	Order code
Diffusor, gasket and ring set replacement.	50-73349

URBAN

MIZAR





MIZAR

ISTANIUM^{LED}®

Decorative luminaire with minimalist design and cylindrical shapes

Decorative luminaire with minimalist design, cylindrical shapes with tangent lateral fastening and die-cast aluminium.



Parking areas



Avenues



Streets



Pedestrian streets



Commercial areas



Parks / gardens



Squares



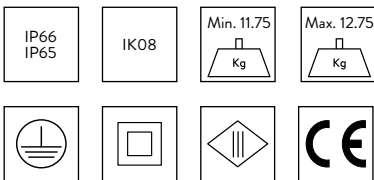
Roundabouts / Intersections



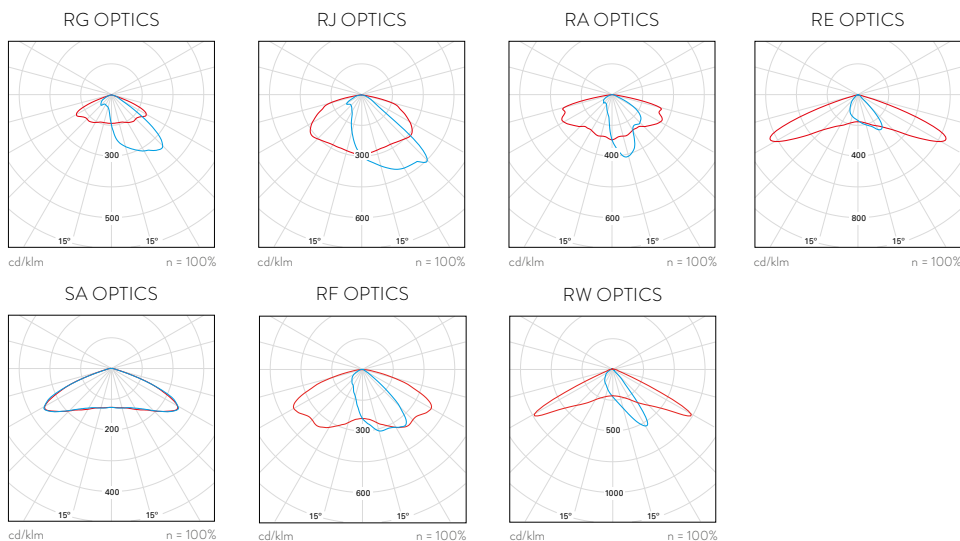
MIZAR

ISTANIUM [®]

LED DECORATIVE URBAN LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



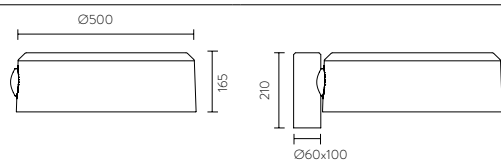
— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **MIZAR LED** luminaire, size **M**, made of die-cast aluminium. Tangent cylindrical lateral fastening by means of a ¾"G x 50 mm. threaded coupling. Adaptation to Ø60 mm fastenings by means of an adaptor. Bevelled flat cover. Internal refrigeration fins. Access to the gear and maintenance from the bottom with opening through two stainless steel Allen M8 screws on the top. Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection rating for the Istanium LED optical group and **IK08** impact resistance rating. Possibility of mounting up to ten multi-array optics, to guarantee the homogeneity of the photometry. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery. Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas. LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%. With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage and **Class III** with 12 / 24V DC supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA. Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, by telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO). Standard finish in Simon GYTECH colour and trim ring in Simon BKTECH colour. Dimensions 500x165x500 mm.

DIMENSIONS AND FASTENING SYSTEMS



Luminaire with post-top fastening accessory

Lateral fastening	To ¾"G x 50 mm threaded tube, directional
Post-top fastening	Using accessories
Surface exposed to the wind	0.08 m ²
Weight	Max. 12.75 kg Min. 11.75 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66 / IP65
IK	IK08
Body	Die-cast aluminium
Closure system	With stainless steel screws
Fastening system	Die-cast aluminium
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
Trim ring	BKTECH

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C					
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol					
Supply voltage	Luminaires supplied by electrical grid			Luminaires supplied by solar lighting points		
Supply voltage	220-240V AC			12 / 24V DC		
Frequency	50 / 60 Hz			-		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)			-		
Power factor (cos φ at max. charge)	≥ 0.95			-		
Luminaire electrical protection	Class I or Class II			Class III		
Power according to models***	12 LEDs	24 LEDs	36 LEDs	48 LEDs	60 LEDs	72 LEDs
Supply current	1 module	2 module	3 module	4 module	5 module	6 module
HIGH EFFICIENCY	12 W	24 W	35 W	47 W	59 W	71 W
HIGH BALANCE	18 W	36 W	54 W	73 W	91 W	109 W
HIGH FLUX	24 W	49 W	73 W	-	-	-
VERY HIGH FLUX	-	-	-	-	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 5 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



CONFIGURE YOUR MIZAR LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description																																
MIZMAF										Simon MIZAR Istanium® LED luminaire, size M, ¾ " G lateral fastening, flat cover																																
	GTF									Flat transparent shatter-proof tempered glass diffuser																																
		0								Without installation wire (0 m)																																
			RG_ RJ_ RA_ RE_ SA_ RF_ RW_							G Type Front Road Light Optics J Type Front Road Light Optics A Type Extended Road Light Optics E Type Extended Road Light Optics A Type Symmetric Optics F Type Front Road Light Optics Wide Road Light Optics																																
										<input type="radio"/> NDL <input type="radio"/> WDL <input type="radio"/> SDL																																
										Neutral daylight - 4,000 K Warm daylight – 3,000 K Soft daylight - 2,700 K																																
										<table border="1"> <tr> <td>_12W350</td> <td>12 W 350 mA</td> <td>1,760 lm @ 4,000 K</td> <td>12 LEDs</td> </tr> <tr> <td>_24W700</td> <td>24 W 700 mA</td> <td>3,360 lm @ 4,000 K</td> <td>12 LEDs</td> </tr> <tr> <td>_36W530</td> <td>36 W 530 mA</td> <td>4,960 lm @ 4,000 K</td> <td>24 LEDs</td> </tr> <tr> <td>_49W700</td> <td>49 W 700 mA</td> <td>6,330 lm @ 4,000 K</td> <td>24 LEDs</td> </tr> <tr> <td>_54W530</td> <td>54 W 530 mA</td> <td>7,390 lm @ 4,000 K</td> <td>36 LEDs</td> </tr> <tr> <td>_73W700</td> <td>73 W 700 mA</td> <td>9,300 lm @ 4,000 K</td> <td>36 LEDs</td> </tr> <tr> <td>_91W530</td> <td>91 W 530 mA</td> <td>12,340 lm @ 4,000 K</td> <td>60 LEDs</td> </tr> <tr> <td>109W530</td> <td>109 W 530 mA</td> <td>14,590 lm @ 4,000 K</td> <td>72 LEDs</td> </tr> </table>	_12W350	12 W 350 mA	1,760 lm @ 4,000 K	12 LEDs	_24W700	24 W 700 mA	3,360 lm @ 4,000 K	12 LEDs	_36W530	36 W 530 mA	4,960 lm @ 4,000 K	24 LEDs	_49W700	49 W 700 mA	6,330 lm @ 4,000 K	24 LEDs	_54W530	54 W 530 mA	7,390 lm @ 4,000 K	36 LEDs	_73W700	73 W 700 mA	9,300 lm @ 4,000 K	36 LEDs	_91W530	91 W 530 mA	12,340 lm @ 4,000 K	60 LEDs	109W530	109 W 530 mA	14,590 lm @ 4,000 K	72 LEDs
_12W350	12 W 350 mA	1,760 lm @ 4,000 K	12 LEDs																																							
_24W700	24 W 700 mA	3,360 lm @ 4,000 K	12 LEDs																																							
_36W530	36 W 530 mA	4,960 lm @ 4,000 K	24 LEDs																																							
_49W700	49 W 700 mA	6,330 lm @ 4,000 K	24 LEDs																																							
_54W530	54 W 530 mA	7,390 lm @ 4,000 K	36 LEDs																																							
_73W700	73 W 700 mA	9,300 lm @ 4,000 K	36 LEDs																																							
_91W530	91 W 530 mA	12,340 lm @ 4,000 K	60 LEDs																																							
109W530	109 W 530 mA	14,590 lm @ 4,000 K	72 LEDs																																							
										<table border="1"> <tr> <td>IA23_</td> <td>Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges</td> </tr> <tr> <td>IA23S</td> <td>Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges</td> </tr> <tr> <td>IA12_</td> <td>Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming</td> </tr> </table>	IA23_	Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges	IA23S	Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges	IA12_	Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming																										
IA23_	Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges																																									
IA23S	Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges																																									
IA12_	Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming																																									
										<table border="1"> <tr> <td>2N_</td> <td>Dimming without control line (self-dimming)</td> </tr> <tr> <td>2N+_</td> <td>Dimming with control line</td> </tr> <tr> <td>1N_</td> <td>Without dimming (on/off)</td> </tr> <tr> <td>CAD_</td> <td>Cabinet amplitude dimming (electrical box dimmer)</td> </tr> <tr> <td>1-10</td> <td>Dimming through 1.10 V input protocol</td> </tr> <tr> <td>DALI</td> <td>Dimming through DALI input protocol</td> </tr> </table>	2N_	Dimming without control line (self-dimming)	2N+_	Dimming with control line	1N_	Without dimming (on/off)	CAD_	Cabinet amplitude dimming (electrical box dimmer)	1-10	Dimming through 1.10 V input protocol	DALI	Dimming through DALI input protocol																				
2N_	Dimming without control line (self-dimming)																																									
2N+_	Dimming with control line																																									
1N_	Without dimming (on/off)																																									
CAD_	Cabinet amplitude dimming (electrical box dimmer)																																									
1-10	Dimming through 1.10 V input protocol																																									
DALI	Dimming through DALI input protocol																																									
										<table border="1"> <tr> <td>C1</td> <td>Class 1 Luminaire electrical protection</td> </tr> <tr> <td>C2</td> <td>Class 2 Luminaire electrical protection</td> </tr> <tr> <td>C3</td> <td>Class 3 (DC exclusive)</td> </tr> </table>	C1	Class 1 Luminaire electrical protection	C2	Class 2 Luminaire electrical protection	C3	Class 3 (DC exclusive)																										
C1	Class 1 Luminaire electrical protection																																									
C2	Class 2 Luminaire electrical protection																																									
C3	Class 3 (DC exclusive)																																									
										<table border="1"> <tr> <td>GYTECH</td> <td>Standard finish in Simon Technical Grey</td> </tr> <tr> <td>*****</td> <td>Finish in Simon colours (see page 514)</td> </tr> <tr> <td>*****</td> <td>Finish in RAL classic chart colours</td> </tr> </table>	GYTECH	Standard finish in Simon Technical Grey	*****	Finish in Simon colours (see page 514)	*****	Finish in RAL classic chart colours																										
GYTECH	Standard finish in Simon Technical Grey																																									
*****	Finish in Simon colours (see page 514)																																									
*****	Finish in RAL classic chart colours																																									

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	MIZMAFGTFORJ_NDL_12W350IA23_1N_C1GYTECH	207-000380012
24 W	12	700 mA	MIZMAFGTFORJ_NDL_24W700IA23_1N_C1GYTECH	207-000378012
36 W	24	530 mA	MIZMAFGTFORJ_NDL_36W530IA23_1N_C1GYTECH	207-000219012
49 W	24	700 mA	MIZMAFGTFORJ_NDL_49W700IA23_1N_C1GYTECH	207-000186012
54 W	36	530 mA	MIZMAFGTFORJ_NDL_54W530IA23_1N_C1GYTECH	207-000375012
73 W	36	700 mA	MIZMAFGTFORJ_NDL_73W700IA23_1N_C1GYTECH	207-000371012
91 W	60	530 mA	MIZMAFGTFORJ_NDL_91W530IA23_1N_C1GYTECH	207-000369012
109 W	72	530 mA	MIZMAFGTFORJ_NDL109W530IA23_1N_C1GYTECH	207-000367012

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



COMBINE YOUR MIZAR LUMINAIRE WITH:

LIGHTING POINTS:

12 M

11 M

10 M

9 M

8 M

7 M

6 M

5 M

4 M

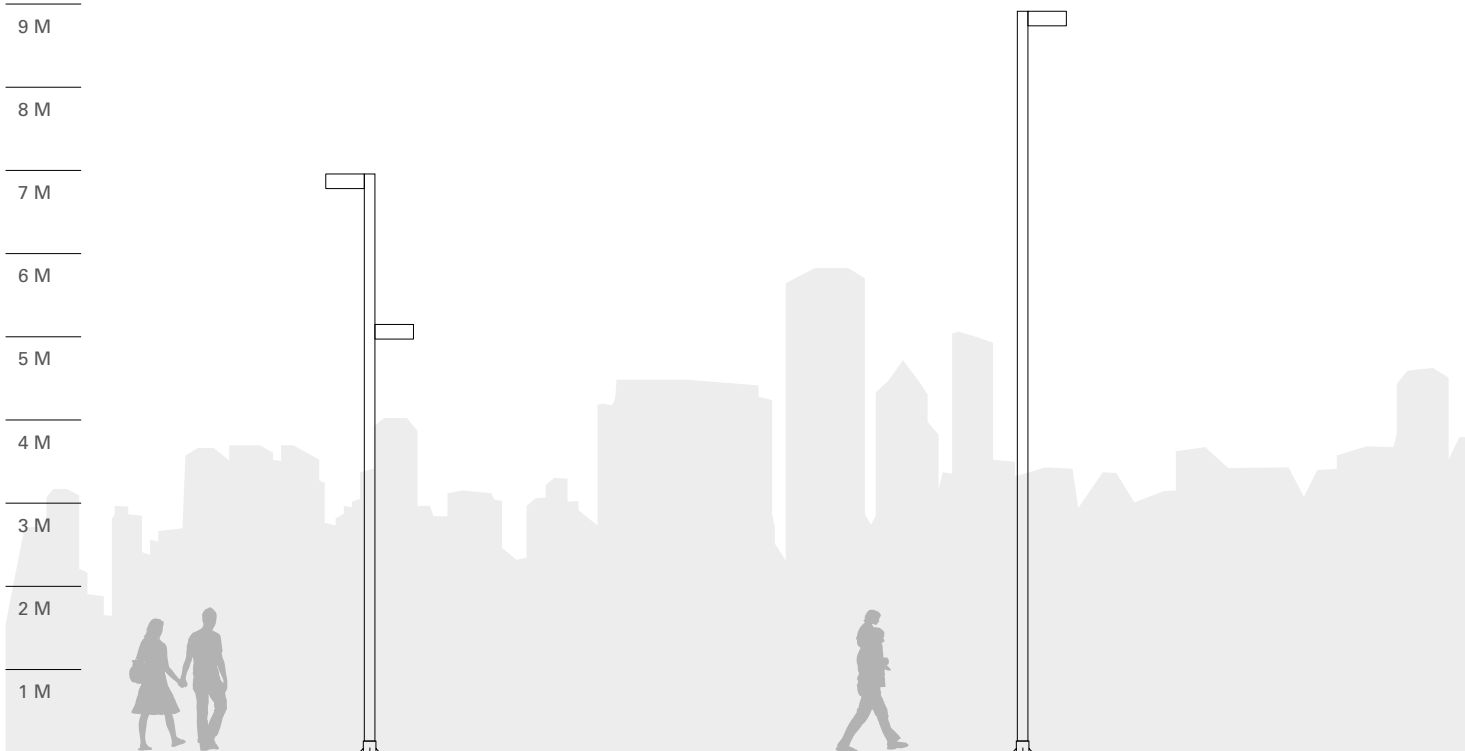
3 M

2 M

1 M

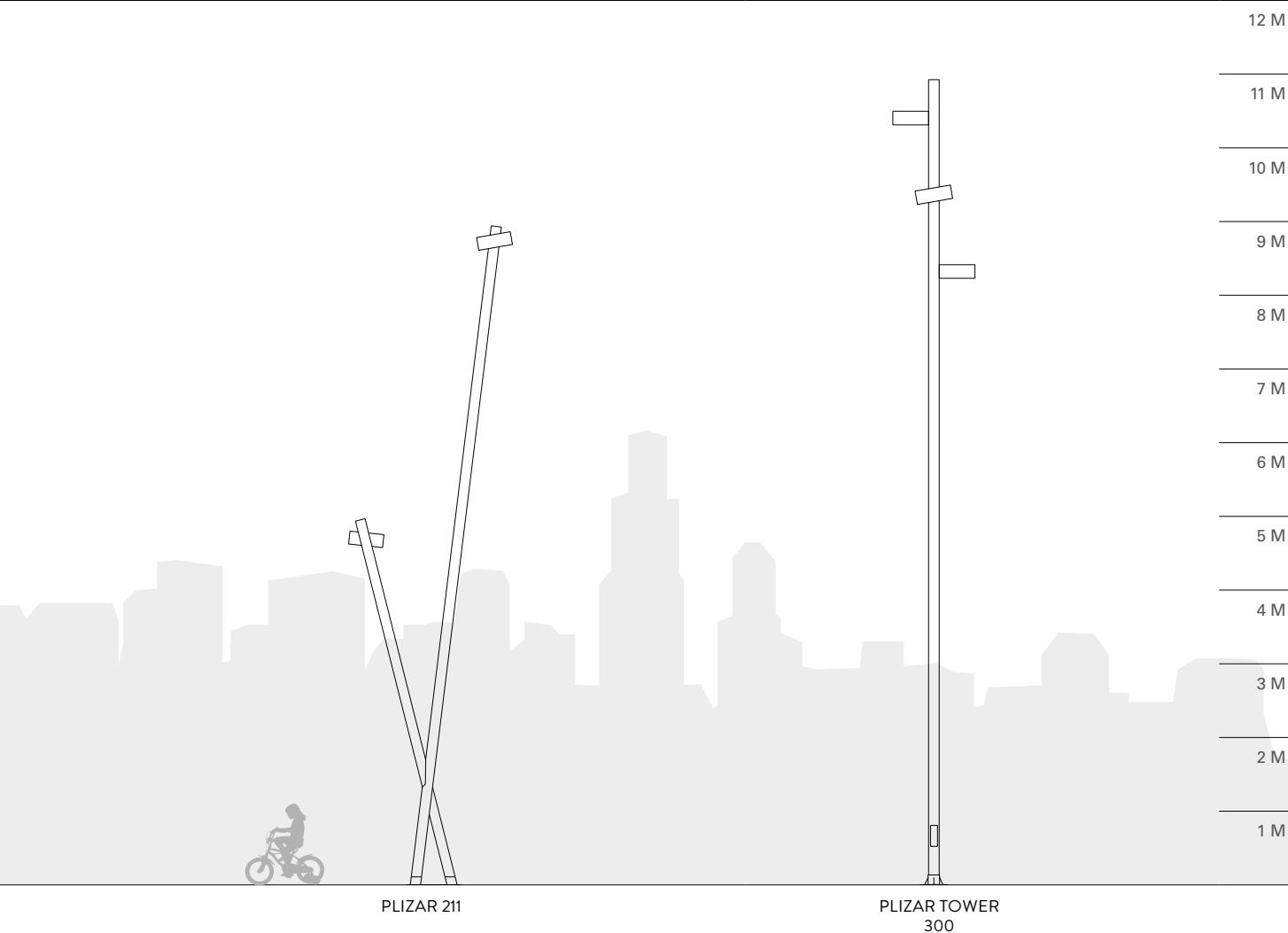
URBAN

MIZAR



PLIZAR 210

PLIZAR 100



ACCESSORIES / REPLACEMENTS

Description	Order code
Wall arm for Simon Mizar Istanium LED luminaire. GYTECH finish.	5-533178
Ø60 x 100 mm to ¾" G adaptor for pole. Galvanised finish.	50-88500
Ø60 x 100 mm to ¾" G adaptor for pole. GYTECH finish.	50-88500-012



HYDRA

ISTANIUM^{LED}®

Decorative luminaire, ideal
for intensive introduction
of LED technology

With a tapered shape and flat cover. It incorporates
decorative elements that give it personality without taking
away from its impressive technical performance.



Streets



Pedestrian streets



Commercial areas



Parks / gardens



Squares



HYDRA

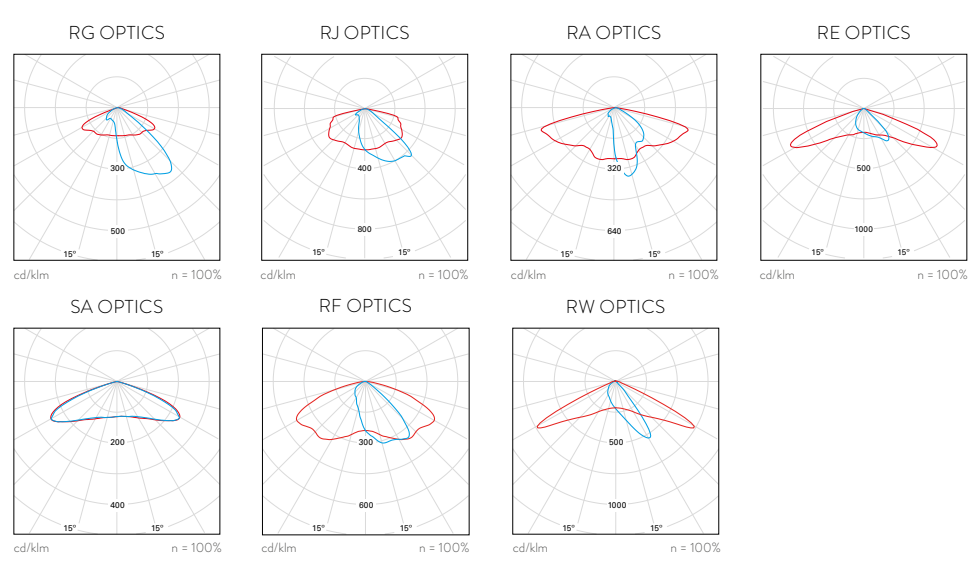
ISTANIUM^{LED}®



LED DECORATIVE URBAN LUMINAIRE

IP66	IK08	Min. 8 Kg	Max. 8.3 Kg

COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <5 % (E2 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **HYDRA LED** luminaire, size **M**, made of die-cast aluminium. Post-top fastening.

Adaptation to fastenings from Ø34 mm to Ø76 mm depending on the adaptor.

Ø322 mm flat cover, with the option of Ø700 mm flat cover. Internal refrigeration system through fins. Single body luminaire with two independent compartments for thermal separation, for the optical group and for the electric group. Access to gear and maintenance from the top with 2-lever opening, without tools.

Curved transparent PMMA high-impact resistant (HIR) diffuser to facilitate cleaning and prevent UV radiation in the optics. **IP66** protection rating for luminaire, and **IK08** impact resistance rating.

Option of 5 m wiring.

Possibility of mounting up to ten multi-array optics, to guarantee the homogeneity of the photometry.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

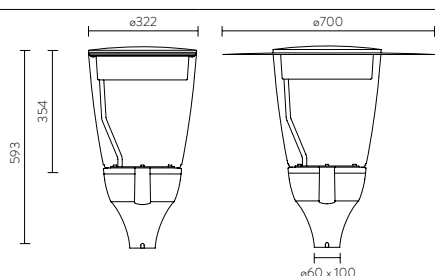
LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 5%.

With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage and **Class III** with 12/24 V DC supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish for in Simon GYDECO colour and aluminium top guard. Possibility of Simon and RAL chart finishes. Dimensions: 322x593x322 mm for Ø322-mm diffuser model and 700x593x700 mm for Ø700-mm diffuser model.

DIMENSIONS AND FASTENING SYSTEMS



Post-top fastening	Ø60 mm, 100 mm long
Surface exposed to the wind	0.14 m ²
Weight	Max. 8.3 kg Min. 8 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08
Body	Die-cast aluminium
Closure system	Die-cast aluminium lever
Fastening system	Die-cast aluminium
Diffuser	High-strength transparent PMMA

FINISHES

Body	Simon Colours RAL chart colours
Top guard	Aluminium

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C		
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol		
	Luminaires supplied by electrical grid	Luminaires supplied by solar lighting points	
Supply voltage	220-240V AC	12 / 24V DC	
Frequency	50 / 60 Hz	-	
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)	-	
Power factor (cos φ at max. charge)	≥ 0.95	-	
Luminaire electrical protection	Class I or Class II	Class III	
Power according to models***	12 LEDs	24 LEDs	36 LEDs
Supply current	1 module	2 module	3 module
HIGH EFFICIENCY	12 W	24 W	35 W
HIGH BALANCE	18 W	36 W	54 W
HIGH FLUX	-	-	-
VERY HIGH FLUX	-	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 5 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



CONFIGURE YOUR HYDRA LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
HYDMPF										Simon HYDRA Istanium® LED, size M, Ø60 mm post-top fastening, Ø322 mm flat cover
HYDMPB										Simon HYDRA Istanium® LED, size M, Ø60 mm post-top fastening, Ø700 mm beret cover
		ATB								Curved transparent high resistance PMMA
										Without installation wire (0 m)
										With installation wire (5 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			SA_							A Type Symmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
									<input type="radio"/> NDL	Neutral daylight - 4,000 K
									<input type="radio"/> WDL	Warm daylight – 3,000 K
									<input type="radio"/> SDL	Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,760 lm @ 4,000 K 12 LEDs
					_18W530					18 W 530 mA 2,590 lm @ 4,000 K 12 LEDs
					_36W530					36 W 530 mA 4,960 lm @ 4,000 K 24 LEDs
					_54W530					54 W 530 mA 7,390 lm @ 4,000 K 36 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
						IA12_				Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming
						2N-_				Dimming without control line (self-dimming)
						2N+_				Dimming with control line
						1N_				Without dimming (on/off)
						CAD_				Cabinet amplitude dimming (electrical box dimmer)
						1-10				Dimming through 1.10 V input protocol
						DALI				Dimming through DALI input protocol
									C1	Class 1 Luminaire electrical protection
									C2	Class 2 Luminaire electrical protection
									C3	Class 3 (DC exclusive)
									GYDECO	Standard finish in Simon Decorative Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL Classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	HYDMPFATBORJ_NDL_12W350IA23_1N_C1GYDECO	220-000380013
18 W	12	530 mA	HYDMPFATBORJ_NDL_18W530IA23_1N_C1GYDECO	220-000379013
36 W	24	530 mA	HYDMPFATBORJ_NDL_36W530IA23_1N_C1GYDECO	220-000219013
54 W	36	530 mA	HYDMPFATBORJ_NDL_54W530IA23_1N_C1GYDECO	220-000375013

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



URBAN

HYDRA

COMBINE YOUR HYDRA LUMINAIRE WITH:

CUSTOM SOLUTIONS:

DECORATIVE POLES:

6 M

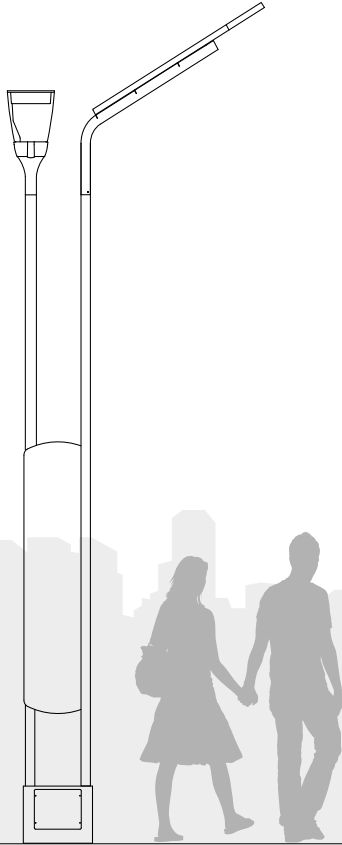
5 M

4 M

3 M

2 M

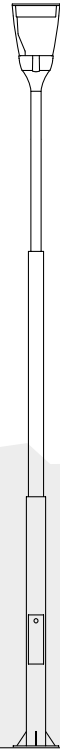
1 M



CEDRUS



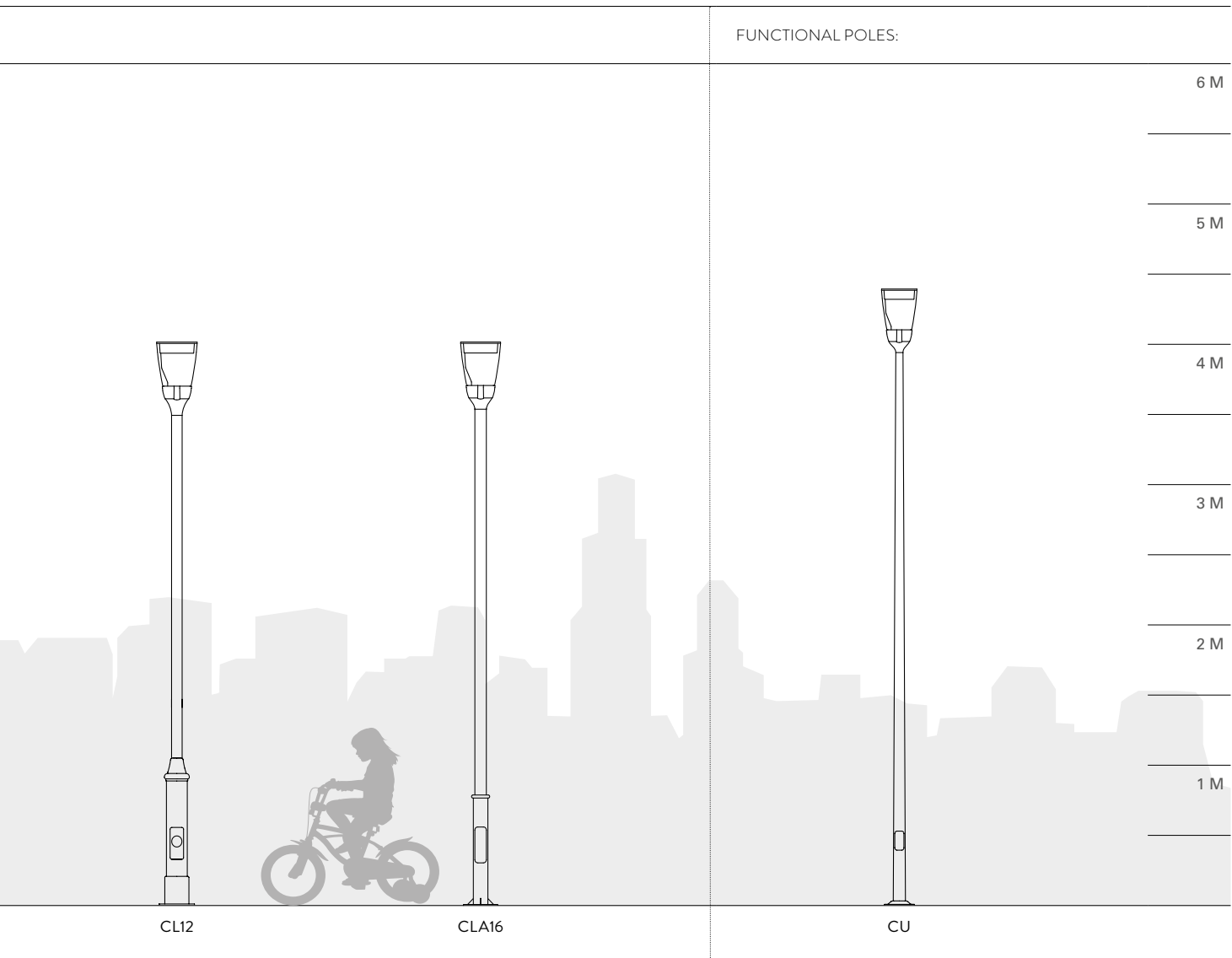
LIBRA



BABEL

CUSTOM SOLUTIONS: -

OTHER DECORATIVE POLES:
CL14, CLB16



FUNCTIONAL POLES:

6 M

5 M

4 M

3 M

2 M

1 M

CL12

CLA16

CU

FUNCTIONAL POLES:
CL0, CEU, CAM, CIL

ACCESSORIES / REPLACEMENTS

Description	Order code
Airtight cap. Prevents moisture from condensing inside the diffuser that may enter through the pole by means of the water tightness reinforcement at the base.	50-73364

URBAN

KUMA



KUMA

ISTANIUM^{LED}®

Decorative luminaire, ideal for intensive introduction of LED technology

Futuristic design and advanced features for the KUMA lighting point, with a rectangular body and decorative arms.



Streets



Pedestrian streets



Commercial areas



Parks / gardens



Squares



KUMA

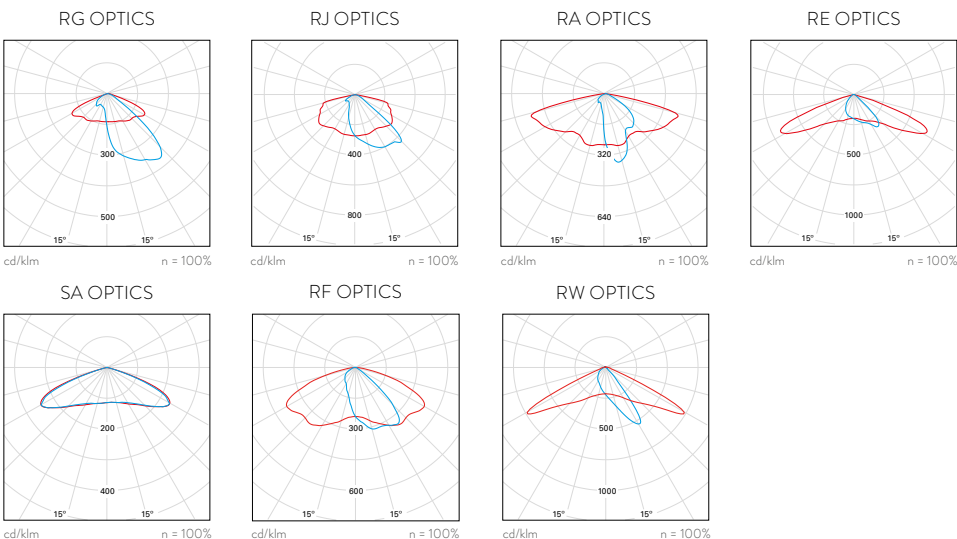
ISTANIUM^{LED}®



DECORATIVE URBAN LED POINT

IP66 IP44	IK08	GV 73 Kg	AS 38 Kg	SS 54 Kg

COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <5 % (E2 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Complete Simon **KUMA** lighting point, with die-cast aluminium light group and stainless steel support for the SS model, extruded aluminium in the AS model and painted galvanised steel in the DGCLAS model.

Floor fastening plate, side measures 400 mm and distance between bolts is 285 mm.

Flat cover. Internal refrigeration system through fins. Access to the gear and maintenance by disassembling top light group. Trapdoor opening with Ø10-mm triangular key.

Curved transparent PMMA high-impact resistant (HIR) diffuser to facilitate cleaning and prevent UV radiation in the optics. Possibility of diffuser with louvre at 180° and opal PMMA diffuser. **IP66** protection rating for light group and **IK08** impact resistance rating.

Possibility of mounting up to ten multi-array optics, to guarantee the homogeneity of the photometry.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

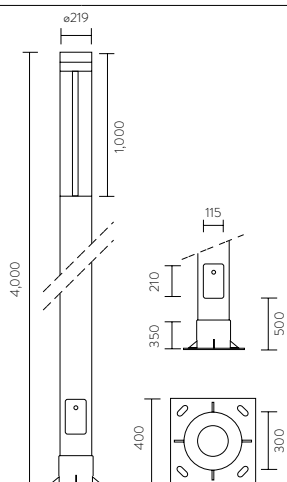
LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 5%.

With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard stainless steel finish and trim in Simon DGCLAS colour for SS model, extruded aluminium and trim in Simon GY9006 colour for AS model, and DGCLAS colour and trim in Simon GY9006 colour for DGCLAS model. Possibility of Simon and RAL chart finishes. Dimensions 219x4000x219 mm.

DIMENSIONS AND FASTENING SYSTEMS



Floor fastening	Plate with gussets, bolts: M22x600 mm
Surface exposed to the wind	4 m: 0.88 m ²
Weight	GV 73 kg AS 38 kg SS 54 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08
Shaft	Painted galvanised steel, AISI 316 stainless steel or extruded aluminium
Light group closure	Die-cast aluminium
Fastening system	Die-cast aluminium
Diffuser	Transparent PMMA with high impact resistance Opal PMMA

FINISHES

Stainless steel	SS shaft / DGCLAS decorative rings
Extruded aluminium	AS shaft / GY9006 decorative rings
Galvanised and Painted Steel	Simon Colours or RAL chart colours shaft / GY9006 decorative rings

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581
Support according to: EN 40-5 (according to model)

Warranty	5 years.
Supply and packaging	Luminaire packed in recycled cardboard with an identifying label to protect the product during transport and storage. Pole packed with foam reel protector and plate base with foam protector on edges.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C	
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol	
	Luminaires supplied by electrical grid	
Supply voltage	220-240V AC	
Frequency	50 / 60 Hz	
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)	
Power factor (cos φ at max. charge)	≥ 0.95	
Luminaire electrical protection	Class I or Class II	
Power according to models***	12 LEDs	24 LEDs
Supply current	1 module	2 module
HIGH EFFICIENCY	12 W	24 W
HIGH BALANCE	18 W	36 W
HIGH FLUX	24 W	49 W
VERY HIGH FLUX	-	-



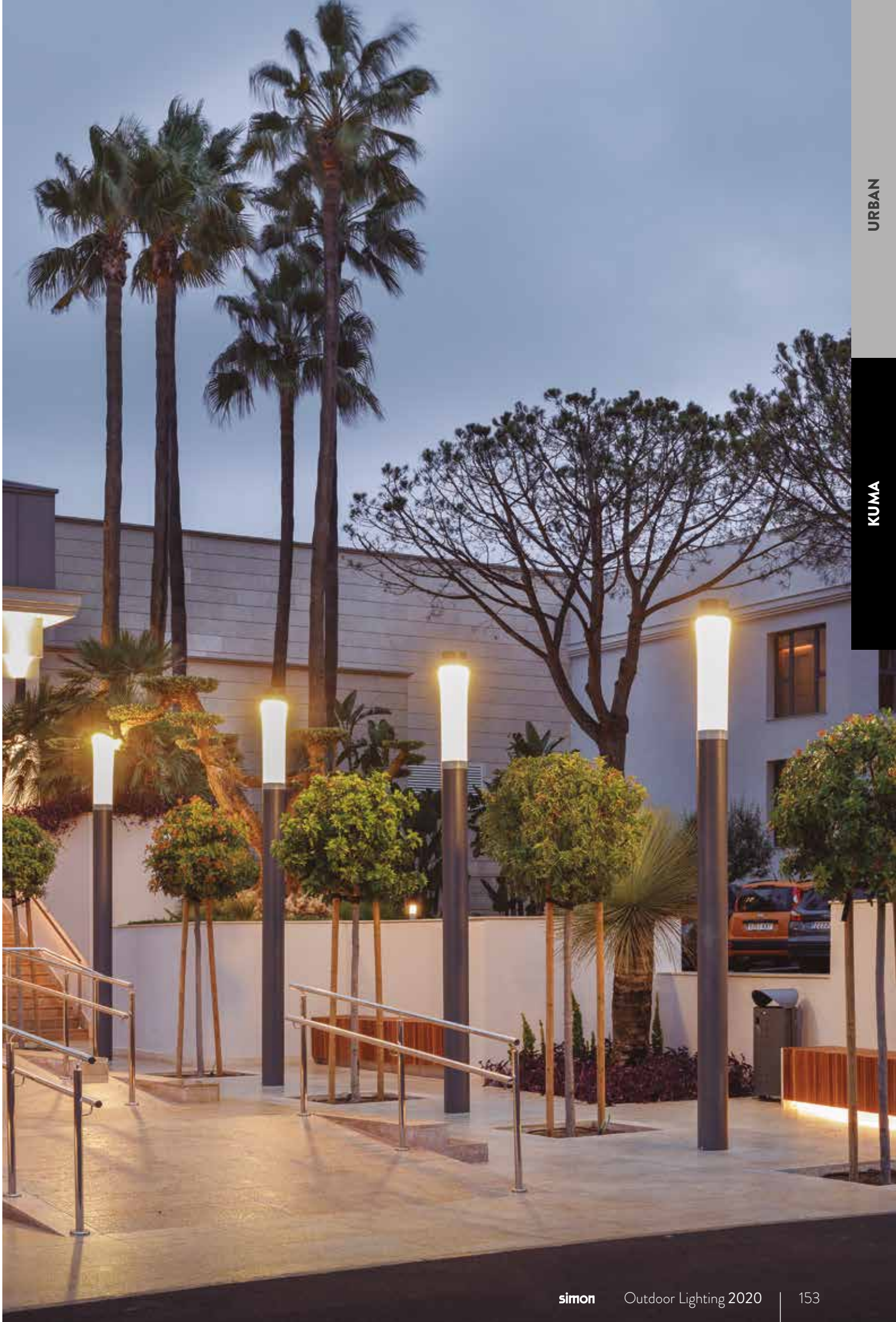
CONFIGURE YOUR KUMA LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
KUMSPF										Simon KUMA Istanium® LED, fastening plate and door according to measurements, flat cover
	ATH									Cylindrical Transparent High Resistance PMMA with louvre at 180°
	ATC									Cylindrical Transparent High Resistance PMMA
	MOC									Cylindrical Opal PMMA
		0								Without installation wire (0 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							Extended Road Light Optics
			SA_							A Type Symmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
				<input type="radio"/> NDL						Neutral daylight - 4,000 K
				<input type="radio"/> WDL						Warm daylight – 3,000 K
				<input type="radio"/> SDL						Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,760 lm @ 4,000 K 12 LEDs
					_24W700					24 W 700 mA 3,360 lm @ 4,000 K 12 LEDs
					_36W530					36 W 530 mA 4,960 lm @ 4,000 K 24 LEDs
					_49W700					49 W 700 mA 6,330 lm @ 4,000 K 24 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
							2N_			Dimming without control line (self-dimming)
							2N+_			Dimming with control line
							1N_			Without dimming (on/off)
							CAD_			Cabinet amplitude dimming (electrical box dimmer)
							1-10			Dimming through 1.10 V input protocol
							DALI			Dimming through DALI input protocol
								C1		Class 1 Luminaire electrical protection
								C2		Class 2 Luminaire electrical protection
									SS_	Stainless Steel Shaft, DGCLAS decorative rings
									AS_	Extruded Aluminium Shaft, GY9006 decorative rings
									DGCLAS	Forged Sand Blasted Dark Grey Finish. GY9006 decorative rings
									*****	Finish in Simon colours (see page 514). GY9006 decorative rings
									*****	Finish in RAL Classic chart colours. GY9006 decorative rings

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	KUMSPFATCORJ_NDL_12W350IA23_1N_C1SS_	202-000380009
12 W	12	350 mA	KUMSPFATCORJ_NDL_12W350IA23_1N_C1AS_	202-000380004
12 W	12	350 mA	KUMSPFATCORJ_NDL_12W350IA23_1N_C1DGCLAS	202-000380029
24 W	12	700 mA	KUMSPFATCORJ_NDL_24W700IA23_1N_C1SS_	202-000378009
24 W	12	700 mA	KUMSPFATCORJ_NDL_24W700IA23_1N_C1AS_	202-000378004
24 W	12	700 mA	KUMSPFATCORJ_NDL_24W700IA23_1N_C1DGCLAS	202-000219029
36 W	24	530 mA	KUMSPFATCORJ_NDL_36W530IA23_1N_C1SS_	202-000219009
36 W	24	530 mA	KUMSPFATCORJ_NDL_36W530IA23_1N_C1AS_	202-000219004
36 W	24	530 mA	KUMSPFATCORJ_NDL_36W530IA23_1N_C1DGCLAS	202-000219029
49 W	24	700 mA	KUMSPFATCORJ_NDL_49W700IA23_1N_C1SS_	202-000186009
49 W	24	700 mA	KUMSPFATCORJ_NDL_49W700IA23_1N_C1AS_	202-000186004
49 W	24	700 mA	KUMSPFATCORJ_NDL_49W700IA23_1N_C1DGCLAS	202-000186029

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



URBAN

KUMA

YOUR KUMA LUMINAIRE:

6 M

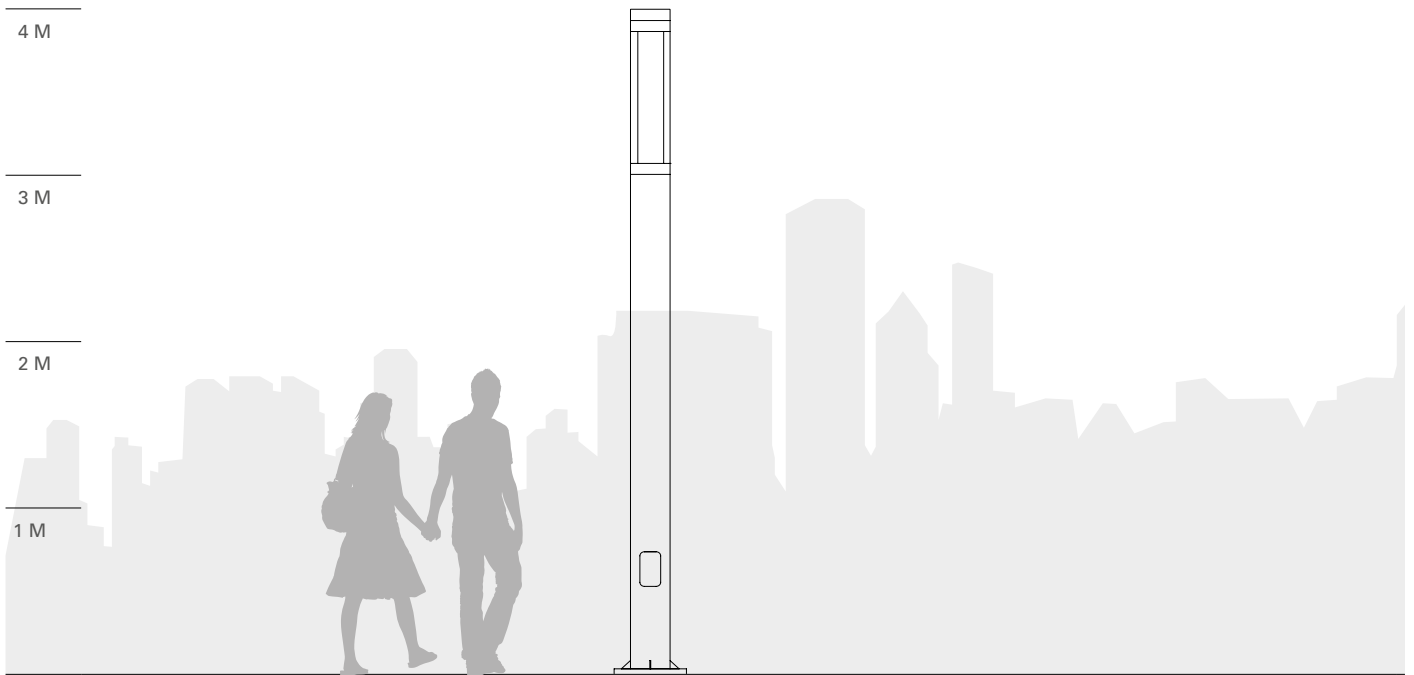
5 M

4 M

3 M



2 M

1 M



KUMA

ACCESSORIES / REPLACEMENTS

	Description	Order code
	Decorative ring for Stainless steel post base	50-88802
	Decorative ring for Extruded aluminium post base	50-88803
	Decorative ring for DGCLAS painted galvanised steel post base	50-88801
	Replacement PMMA diffuser, high-resistance, transparent cylindrical (ATB)	50-88058
	Replacement opal cylindrical PMMA diffuser (MOC)	50-88059
	Stainless steel door	50-70913
	Extruded aluminium door	50-70914
	DGCLAS painted galvanised steel door	50-70912



URBAN

KUJMA



LUMINAIRES
CLASSIC

PRAGA

M PRO / M BASIC / S FC6



BERLIN



BORA



Choose our classic lighting solutions that can transport you to another era, which are suitable for urban environments with a historical flavour.

CLASSIC

PRAGA





PRAGA

M PRO / M BASIC / S FC6

ISTANIUM^{LED}®

The four-sided luminaires from the PRAGA collection are especially designed to blend into the urban landscape of historic centres. They use the most efficient technology and respect the personality of each space.



Avenues
M PRO / M BASIC



Streets
M PRO / M BASIC /
S FC6



Pedestrian streets
M PRO / M BASIC /
S FC6



Commercial areas
M PRO / M BASIC /
S FC6



Parks / gardens
M PRO / M BASIC /
S FC6



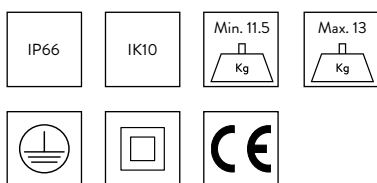
Squares
M PRO / M BASIC /
S FC6



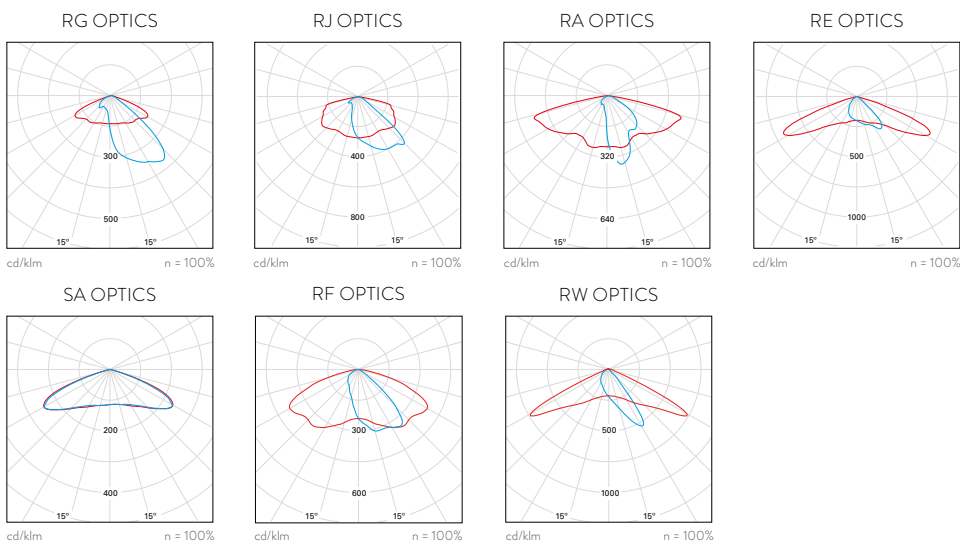
PRAGA M PRO

ISTANIUM [®]

CLASSIC LED LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR):
 <1% (E1 areas) with flat transparent tempered glass diffuser
 <5% (E2 areas) with flat four-sided transparent PMMA diffuser
 <15% (E3 areas) with flat four-sided opal PMMA diffuser
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **PRAGA LED** luminaire, size **M, PRO** model, made of die-cast aluminium. 3/4" G post-top fastening, or suspended fastening by means of a 3/4" G x 50 mm threaded coupling, or fastening to catenary by means of wire grip.

Adaptation to Ø60 mm fastenings by means of an adaptor for post-top fastening model.

Flat cover or tapered cover with trim. Internal refrigeration system through fins. Access to gear and maintenance from the top with stainless steel screw opening.

Easy-clean transparent flat tempered glass optical group diffuser to prevent UV radiation in the optics. Option of flat four-sided transparent PMMA or flat four-sided opal PMMA luminaire diffuser. **IP66** protection rating for the Istantium LED optical group and **IK10** impact resistance rating.

No pre-wiring. Option of 5 m wiring.

Possibility of mounting up to ten multi-array optics, to guarantee the homogeneity of the photometry.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

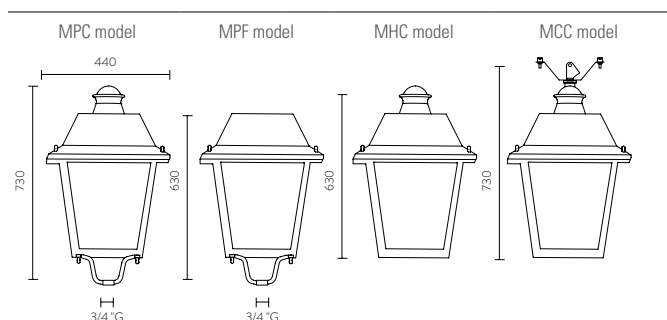
LED service life L90 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1% for models without four-sided diffusers, Upward Light Output Ratio (inst. ULOR) of less than 5% for flat four-sided transparent diffuser and Upward Light Output Ratio (inst. ULOR) of less than 15% for flat four-sided opal diffuser.

With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage and **Class III** with 12 / 24V DC supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming, with control line 2N+, without control line (self-dimming) 2N-, cabinet amplitude dimming CAD, for telemanagement with 1-10 input or DALI. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon BKCLAS colour. Possibility of Simon and RAL chart finishes. Dimensions 440x730x440 mm for post-top models with trim and fastening with a catenary. Dimensions 440x630x440 mm for post-top models without trim and suspended fastening.

DIMENSIONS AND FASTENING SYSTEMS



Post-top fastening	Fastening to 3/4" G x 50 mm threaded tube (MPF and MPC)
Suspended fastening	Fastening to 3/4" G x 50 mm threaded tube (MHC)
Catenary fastening	Fastening part with wire grip (MCC)
Surface exposed to the wind	0.18 m ²
Weight	Max. 13 kg Min. 11.5 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66 / IP65
IK	IK10
Body	Die-cast aluminium
Closure system	With stainless steel screws
Fastening system	Die-cast aluminium
Diffuser	GTF: Flat transparent shatter-proof tempered glass MTT: Four-sided transparent PMMA MOT: Engraved opal PMMA

FINISHES

Body	Simon Colours RAL chart colours
-------------	------------------------------------

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.



CONFIGURE YOUR PRAGA M PRO LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
PRGMPF										Simon PRAGA M PRO Istanium® LED, size M, ¾" G post-top fastening, flat cover
PRGMPC										Simon PRAGA M PRO Istanium® LED, size M, ¾" G post-top fastening, tapered cover
PRGMHC										Simon PRAGA M PRO Istanium® LED luminaire, size M, ¾" G suspended upper fastening, tapered cover
PRGMCC										Simon PRAGA M PRO Istanium® LED, size M, upper catenary fastening, tapered cover
	GTF									Flat transparent shatter-proof tempered glass diffuser
	MTT									4-Sided Transparent PMMA Diffuser
	MOT									4-Sided Opal PMMA Diffuser
		0								Without installation wire (0 m)
		5								With installation wire (5 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			SA_							A Type Symmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
				<input type="radio"/> NDL						Neutral daylight - 4,000 K
				<input type="radio"/> WDL						Warm daylight - 3,000 K
				<input type="radio"/> SDL						Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,760 lm @ 4,000 K 12 LEDs
					_24W700					24 W 700 mA 3,360 lm @ 4,000 K 12 LEDs
					_36W530					36 W 530 mA 4,960 lm @ 4,000 K 24 LEDs
					_49W700					49 W 700 mA 6,330 lm @ 4,000 K 24 LEDs
					_54W530					54 W 530 mA 7,390 lm @ 4,000 K 36 LEDs
					_73W700					73 W 700 mA 9,300 lm @ 4,000 K 36 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
						IA12_				Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming
						2N-_				Dimming without control line (self-dimming)
						2N+_				Dimming with control line
						1N_				Without dimming (on/off)
						CAD_				Cabinet amplitude dimming (electrical box dimmer)
						1-10				Dimming through 1.10 V input protocol
						DALI				Dimming through DALI input protocol
						C1				Class 1 Luminaire electrical protection
						C2				Class 2 Luminaire electrical protection
						C3				Class 3 (DC exclusive)
									BKCLAS	Standard finish in Simon Forged Sand Blasted Black
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	PRGMPFGTFORJ_NDL_12W350IA23_1N_C1BKCLAS	319-000380014
24 W	12	700 mA	PRGMPFGTFORJ_NDL_24W700IA23_1N_C1BKCLAS	319-000378014
36 W	24	530 mA	PRGMPFGTFORJ_NDL_36W530IA23_1N_C1BKCLAS	319-000219014
49 W	24	700 mA	PRGMPFGTFORJ_NDL_49W700IA23_1N_C1BKCLAS	319-000186014
54 W	36	530 mA	PRGMPFGTFORJ_NDL_54W530IA23_1N_C1BKCLAS	319-000375014
73 W	36	700 mA	PRGMPFGTFORJ_NDL_73W700IA23_1N_C1BKCLAS	319-000371014

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



CLASSIC

PRAG M PRO

COMBINE YOUR PRAGA M PRO LUMINAIRE WITH:

DECORATIVE POLES:



CLASSIC

PRAGA M PRO



ACCESSORIES / REPLACEMENTS

Description	Order code
3/4" G fastening adaptor to Ø60 support in BKCLAS	50-73542
4-sided transparent PMMA diffuser tray replacement.	50-73396
4-sided opal PMMA diffuser tray replacement.	50-73470

OTHER LUMINAIRES IN THE COLLECTION



PRAGA M BASIC



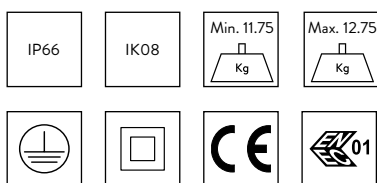
PRAGA S FC6



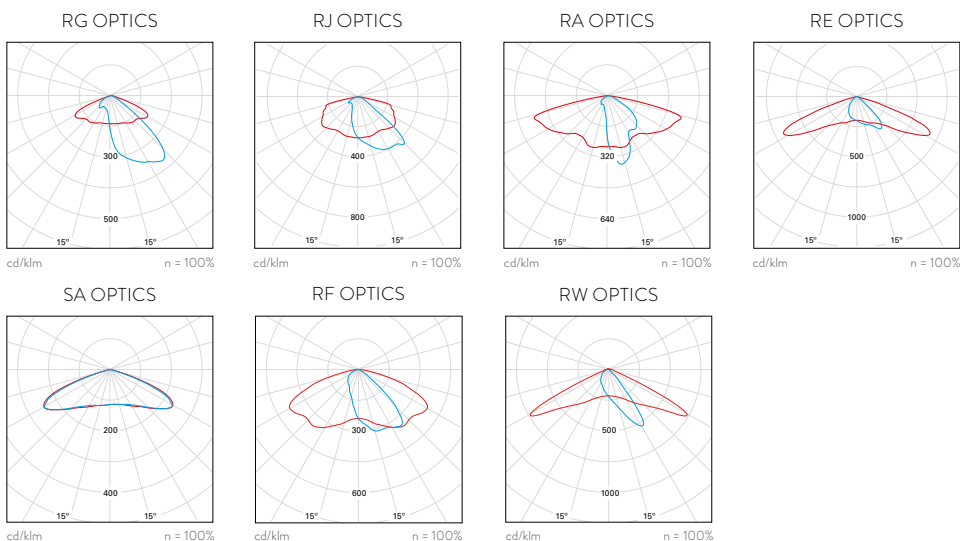
PRAGA M BASIC

ISTANIUM[®]

CLASSIC LED LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1 % (E1 zones) LED
 DURATION (L90 B10 AT TEMP=25 °C AND TEMP_j=95 °C): 100,000h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **PRAGA LED** luminaire, size **M, BASIC** model, made of die-cast aluminium. 3/4 "G post-top fastening.

Adaptation to Ø60 mm fastenings by means of an adaptor.

Tapered cover with trim. Internal refrigeration system through fins. Access to gear and maintenance from the top with stainless steel screw opening.

Easy-clean transparent flat glass diffuser to prevent UV radiation in the optics for 12 and 24-LED models. Transparent PMMA high-impact resistant (HIR) diffuser to facilitate cleaning and prevent UV radiation in the optics for 36-LED models. **IP66** protection rating for the complete luminaire, with safety valve in the optical group to keep the pressure constant and prevent moisture entry, and an impact resistance rating of **IK08**.

Possibility of mounting up to ten multi-array optics, to guarantee the homogeneity of the photometry. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

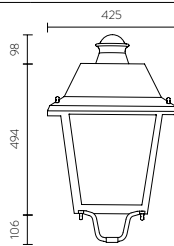
With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming, with control line 2N+, without control line (self-dimming) 2N-, cabinet amplitude dimming CAD, for telemanagement with 1-10 input or DALI. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon BKTECH colour. Dimensions 425x698x425 mm.

ENEC certified luminaire.

DIMENSIONS AND FASTENING SYSTEMS



Post-top fastening	Fastening to threaded tube 3/4" G x 50 mm
Surface exposed to the wind	0.18 m ²
Weight	Max. 12.75 kg Min. 11.75 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08
Body	Die-cast aluminium
Closure system	With stainless steel screws
Fastening system	Die-cast aluminium
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	BKTECH
-------------	--------

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol

Luminaires supplied by electrical grid

Supply voltage	220-240V AC		
Frequency	50 / 60 Hz		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)		
Power factor (cos φ at max. charge)	≥0.95		
Luminaire electrical protection	Class I or Class II		
Power according to models***	12 LEDs	24 LEDs	36 LEDs
Supply current	1 module	2 module	3 module
HIGH EFFICIENCY	12 W	24 W	35 W
HIGH BALANCE	18 W	36 W	54 W
HIGH FLUX	24 W	49 W	-
VERY HIGH FLUX	-	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 5 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.



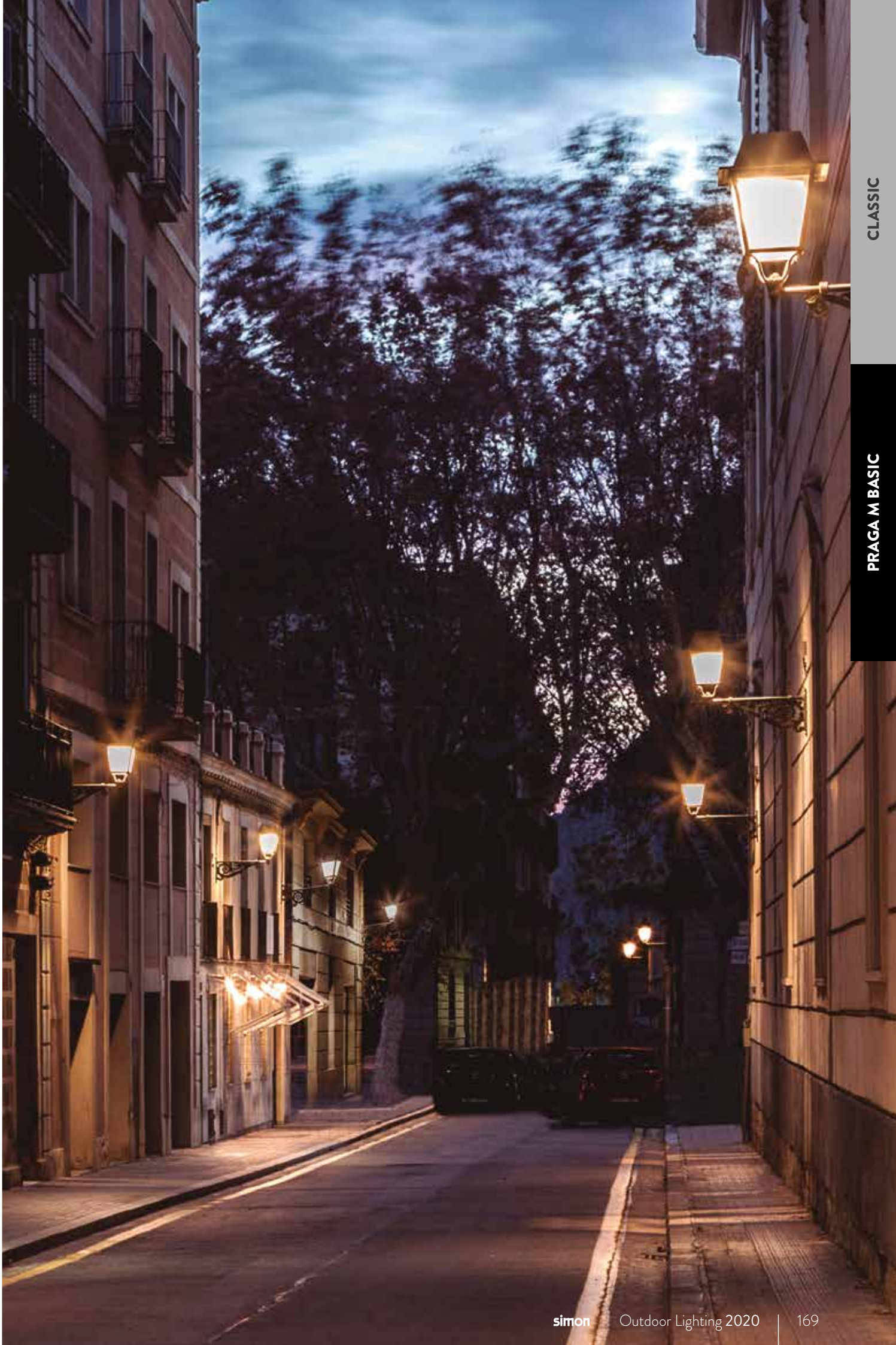
CONFIGURE YOUR PRAGA M BASIC LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
PRGMGPB										Simon PRAGA M BASIC Istanium® LED, size M, post-top fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser
	ITF									Flat transparent PMMA high-impact resistant encapsulation, 36-LED models
		0								Without installation wire (0 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			SA_							A Type Symmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
				<input type="radio"/> NDL						Neutral daylight - 4,000 K
				<input type="radio"/> WDL						Warm daylight – 3,000 K
				<input type="radio"/> SDL						Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,760 lm @ 4,000 K 12 LEDs
					_24W700					24 W 700 mA 3,360 lm @ 4,000 K 12 LEDs
					_36W530					36 W 530 mA 4,960 lm @ 4,000 K 24 LEDs
					_49W700					49 W 700 mA 6,330 lm @ 4,000 K 24 LEDs
					_54W530					54 W 530 mA 7,390 lm @ 4,000 K 36 LEDs
						IA23				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
							2N-			Dimming without control line (self-dimming)
							2N+			Dimming with control line
							1N			Without dimming (on/off)
							CAD			Cabinet amplitude dimming (electrical box dimmer)
							1-10			Dimming through 1.10 V input protocol
							DALI			Dimming through DALI input protocol
								C1		Class 1 Luminaire electrical protection
								C2		Class 2 Luminaire electrical protection
									BKTECH	Standard finish in Simon Technical Black

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	PRGMPBGTFORJ_NDL_12W350IA23_1N_C1BKTECH	341-000380015
24 W	12	700 mA	PRGMPBGTFORJ_NDL_24W700IA23_1N_C1BKTECH	341-000378015
36 W	24	530 mA	PRGMPBGTFORJ_NDL_36W530IA23_1N_C1BKTECH	341-000219015
49 W	24	700 mA	PRGMPBGTFORJ_NDL_49W700IA23_1N_C1BKTECH	341-000186015
54 W	36	530 mA	PRGMPBITFORJ_NDL_54W530IA23_1N_C1BKTECH	341-000375015

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



CLASSIC

PRAGA M BASIC

COMBINE YOUR PRAGA M BASIC LUMINAIRE WITH:

DECORATIVE POLES:

6 M

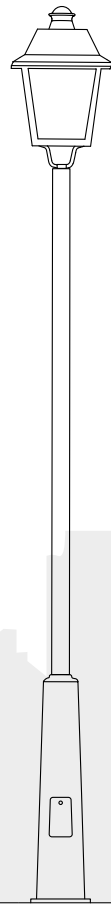
5 M

4 M

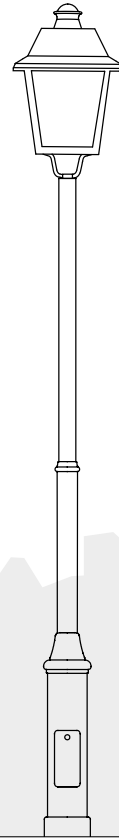
3 M

2 M

1 M



CL22




CL14



CL12

ACCESSORIES / REPLACEMENTS

	Description	Order code
	3/4" G fastening adaptor to Ø60 in BKTECH	5-531881

OTHER LUMINAIRES IN THE COLLECTION



PRAGA M PRO



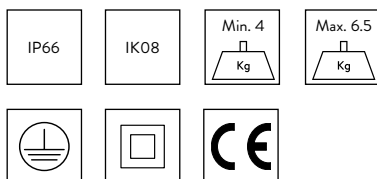
PRAGA S FC6



PRAGA S FC6

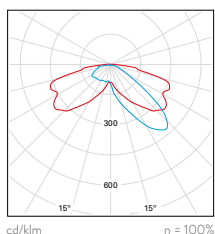
ISTANIUM[®]

CLASSIC LED LUMINAIRE

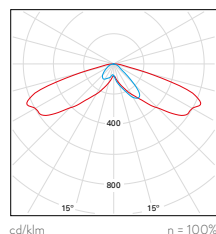


COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <15 % (E3 areas)
 LED DURATION (L90 B10 AT $T_a=25\text{ °C}$ AND $T_j=95\text{ °C}$): 100,000h

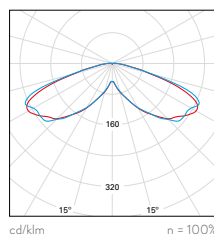
RJ OPTICS



RE OPTICS



SA OPTICS



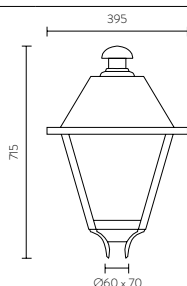
— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **PRAGA LED** classic luminaire, size **S**, model **FC6**, made of UV-stabilised engineering polymer. Post-top fastening. Adaptation to fastenings from Ø34 mm to Ø76 mm depending on the adaptor. Tapered cover with trim. Internal refrigeration system through fins. Access to gear and maintenance from the top with stainless steel screw opening. Flat transparent PMMA high-impact resistant optical group diffuser and flat four-sided prismatic PMMA luminaire diffuser. **IP66** protection rating and **IK08** impact resistance rating for the Istantium LED optical group. Possibility of mounting up to eight multi-array optics. Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas. LED service life L90 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA. Optional dimming, with control line 2N+, without control line (self-dimming) 2N-, cabinet amplitude dimming CAD, for telemanagement with 1-10V input or DALI. Optional custom programming and maintenance of constant light output (CLO). Standard finish in Simon BK9005 colour. Maximum dimensions 395x715x395 mm.

DIMENSIONS AND FASTENING SYSTEMS



Post-top fastening	Ø60 mm, 70 mm long
Surface exposed to the wind	0.12 m ²
Weight	Max. 6.5 kg Min. 4 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66 (optical group)
IK	IK08
Body	Technical polymer
Closure system	With stainless steel screws
Fastening system	Technical polymer
Optical group diffuser	Transparent PMMA with high impact resistance
Luminaire diffuser	Four-sided prismatic PMMA

FINISHES

Body	BK9005
-------------	--------

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol

Luminaires supplied by electrical grid

Supply voltage	220-240V AC
Frequency	50 / 60 Hz
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)
Power factor (cos φ at max. charge)	≥0.95
Luminaire electrical protection	Class I or Class II
Power according to models***	24 LEDs
Supply current	2 module
HIGH EFFICIENCY	24 W
HIGH BALANCE	36 W
HIGH FLUX	-
VERY HIGH FLUX	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.



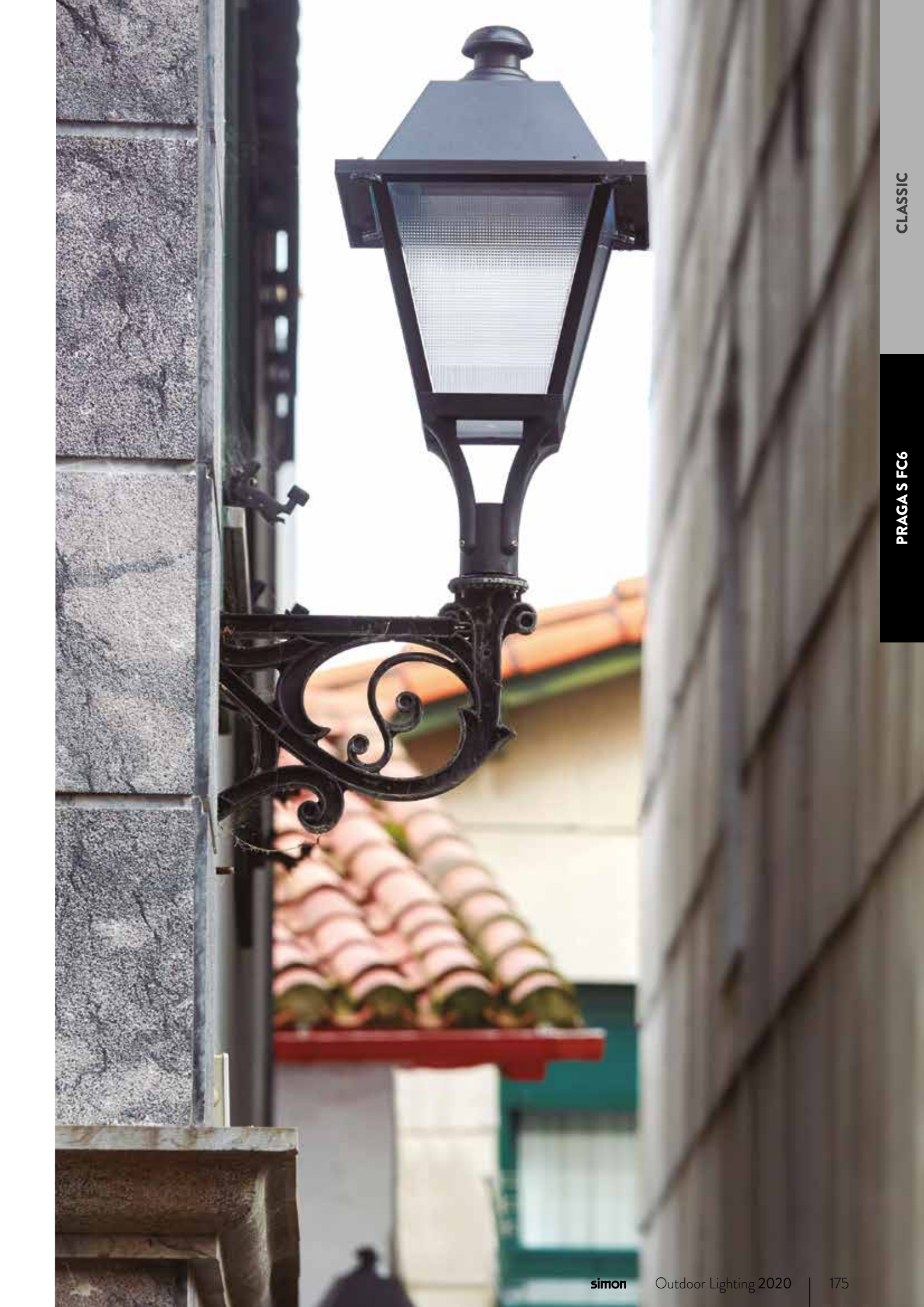
CONFIGURE YOUR PRAGA S FC6 LUMINAIRE:

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description	
FC6SPC										Simon PRAGA S FC6 Istanium® LED, size S, Ø60 mm post-top fastening, 70 mm long, tapered cover	
	MPT									Prismatic PMMA	
		0								Without installation wire (0 m)	
			RJ_							J Type Front Road Light Optics	
			RE_							E Type Extended Road Light Optics	
			SA_							A Type Symmetric Optics	
				<input type="radio"/> NDL							Neutral daylight - 4,000 K
				<input type="radio"/> WDL							Warm daylight – 3,000 K
				<input type="radio"/> SDL							Soft daylight - 2,700 K
						_24W350					24 W 350 mA 2,980 lm @ 4,000 K 24 LEDs
						_36W530					36 W 530 mA 4,060 lm @ 4,000 K 24 LEDs
							IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
							IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
						2N-_				Dimming without control line (self-dimming)	
						2N+_				Dimming with control line	
						1N_				Without dimming (on/off)	
						CAD_				Cabinet amplitude dimming (electrical box dimmer)	
						1-10				Dimming through 1.10 V input protocol	
						DALI				Dimming through DALI input protocol	
								C1		Class 1 Luminaire electrical protection	
								C2		Class 2 Luminaire electrical protection	
									BK9005	Standard finish in Simon RAL BK9005	

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
24 W	24	350 mA	FC6SPCATORJ_NDL_24W350IA23_1N__C1BK9005	340-000360018
36 W	24	530 mA	FC6SPCATORJ_NDL_36W530IA23_1N__C1BK9005	340-000219018

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



CLASSIC

PRAGA S FC6

COMBINE YOUR PRAGA S FC6 LUMINAIRE WITH:

DECORATIVE POLES:

6 M

5 M

4 M

3 M

2 M

1 M

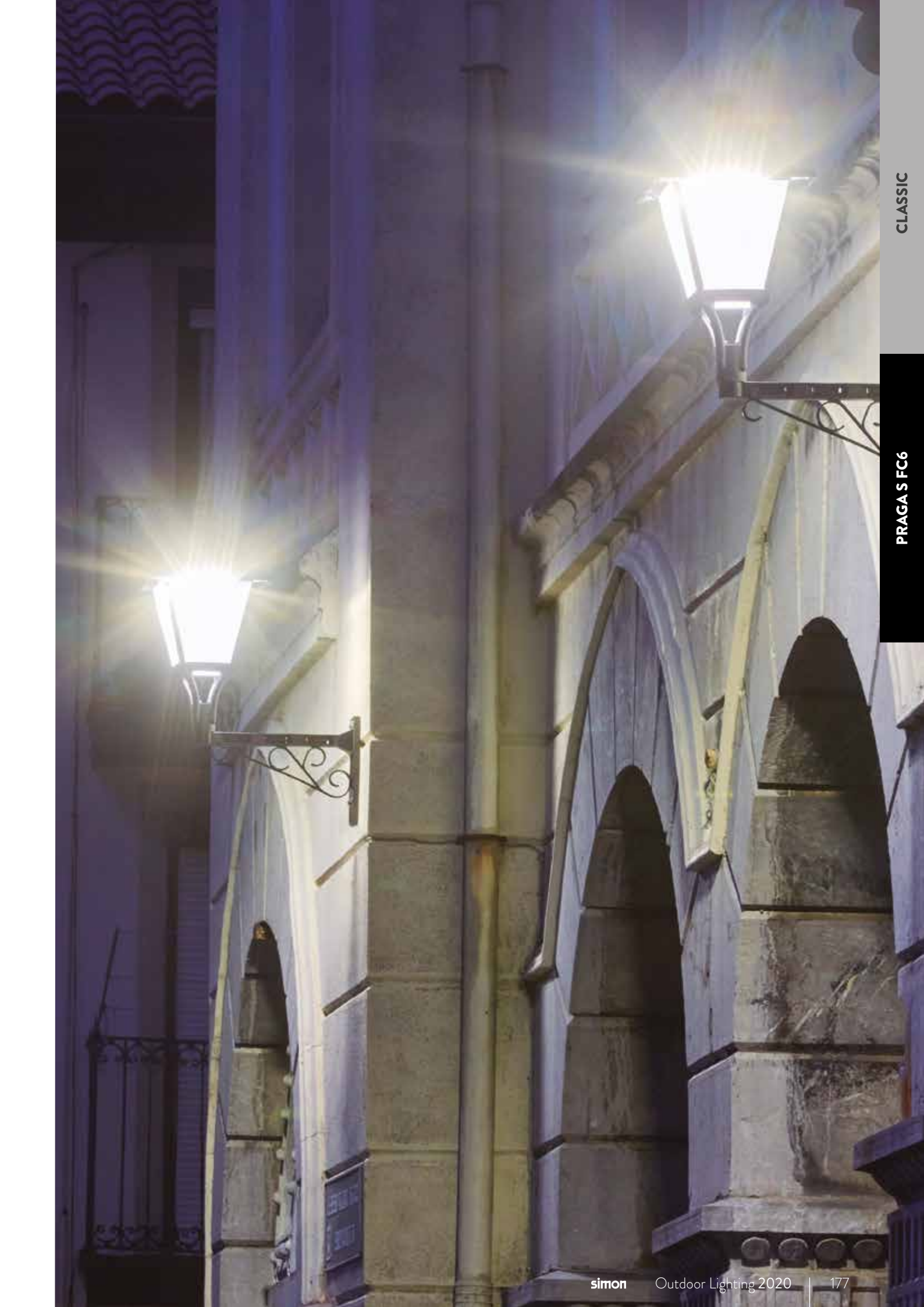


CL12

CL14

ACCESSORIES / REPLACEMENTS

Description	Order code
Overwall fastening accessory, BK9005 finish	50-33507
Fastening accessory for 3/4" G mount, BK9005 finish	50-33044
Fastening accessory for Ø48 mount, BK9005 finish	50-86819
Transparent prismatic diffuser replacement	50-86854
FC6 luminaire cover replacement in BK9005 finish	50-73121



CLASSIC

PRAGA S FC6

CLASSIC

BERLIN



BERLIN

ISTANIUM®

Simon Berlin Istanium LED® luminaire, size M, made of die-cast aluminium. Adaptation to Ø60`mm fastenings with an adaptor. It provides necessary public lighting with maximum efficiency.



Avenues



Streets



Pedestrian streets



Commercial areas



Parks / gardens



Squares

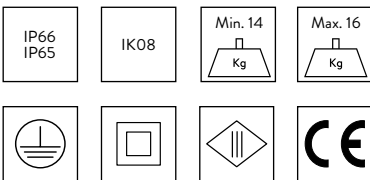




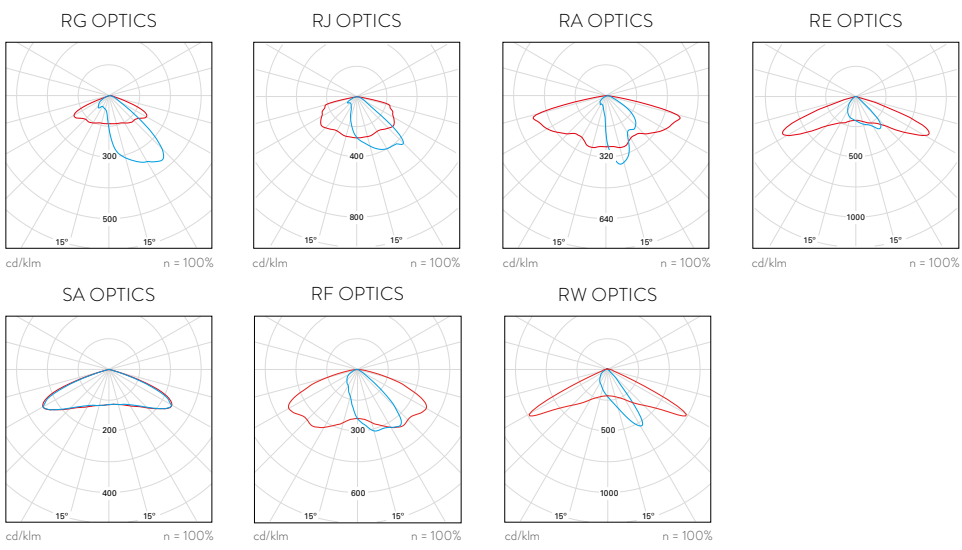
BERLIN

ISTANIUM^{LED}

CLASSIC LED LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <5 % (E2 zones) LED
 DURATION (L90 B10 AT TEMP=25 °C AND TEMP_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **BERLIN LED** luminaire, size **M**, made of die-cast aluminium. ¾" G post-top fastening.

Adaptation to Ø60 mm fastenings by means of an adaptor.

Tapered cover with crown. Internal refrigeration system through fins. Access to gear and maintenance from the top with stainless steel screw opening.

Easy-clean transparent flat tempered glass optical group diffuser to prevent UV radiation in the optics. Curved transparent PMMA, curved opal PMMA or curved engraved PMMA luminaire diffuser. **IP66** protection rating for the Istanium LED optical group and **IK08** impact resistance rating.

No pre-wiring. Option of 5 m wiring.

Possibility of mounting up to ten multi-array optics, to guarantee the homogeneity of the photometry.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

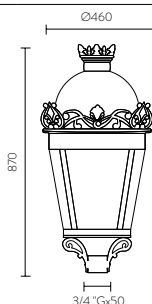
LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 5% with curved transparent diffuser.

With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage and **Class III** with 12 / 24V DC supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon BKTECH colour. Possibility of Simon and RAL chart finishes. Dimensions 460x860x460 mm.

DIMENSIONS AND FASTENING SYSTEMS



Post-top fastening	Fastening to threaded tube ¾" G x 50 mm
Surface exposed to the wind	0.23 m ²
Weight	Max. 16 kg Min. 14 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66 (Optical group includes tempered glass)
IK	IK08
Body	Die-cast aluminium
Closure system	With stainless steel screws
Fastening system	Die-cast aluminium
Diffuser	MTB: Curved transparent PMMA MOB: Curved opal PMMA MEB: Curved engraved PMMA

FINISHES

Body	Simon Colours RAL chart colours
-------------	------------------------------------

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C			
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol			
	Luminaires supplied by electrical grid	Luminaires supplied by solar lighting points		
Supply voltage	220-240V AC	12 / 24V DC		
Frequency	50 / 60 Hz	-		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)			
Power factor (cos φ at max. charge)	≥0.95			
Luminaire electrical protection	Class I or Class II		Class III	
Power according to models***	12 LEDs	24 LEDs	36 LEDs	48 LEDs
Supply current	1mod.	2mod.	3mod.	4mod.
HIGH EFFICIENCY	12 W	24 W	35 W	47 W
HIGH BALANCE	18 W	36 W	54 W	73 W
HIGH FLUX	24 W	49 W	73 W	-
VERY HIGH FLUX	-	-	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 5 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.



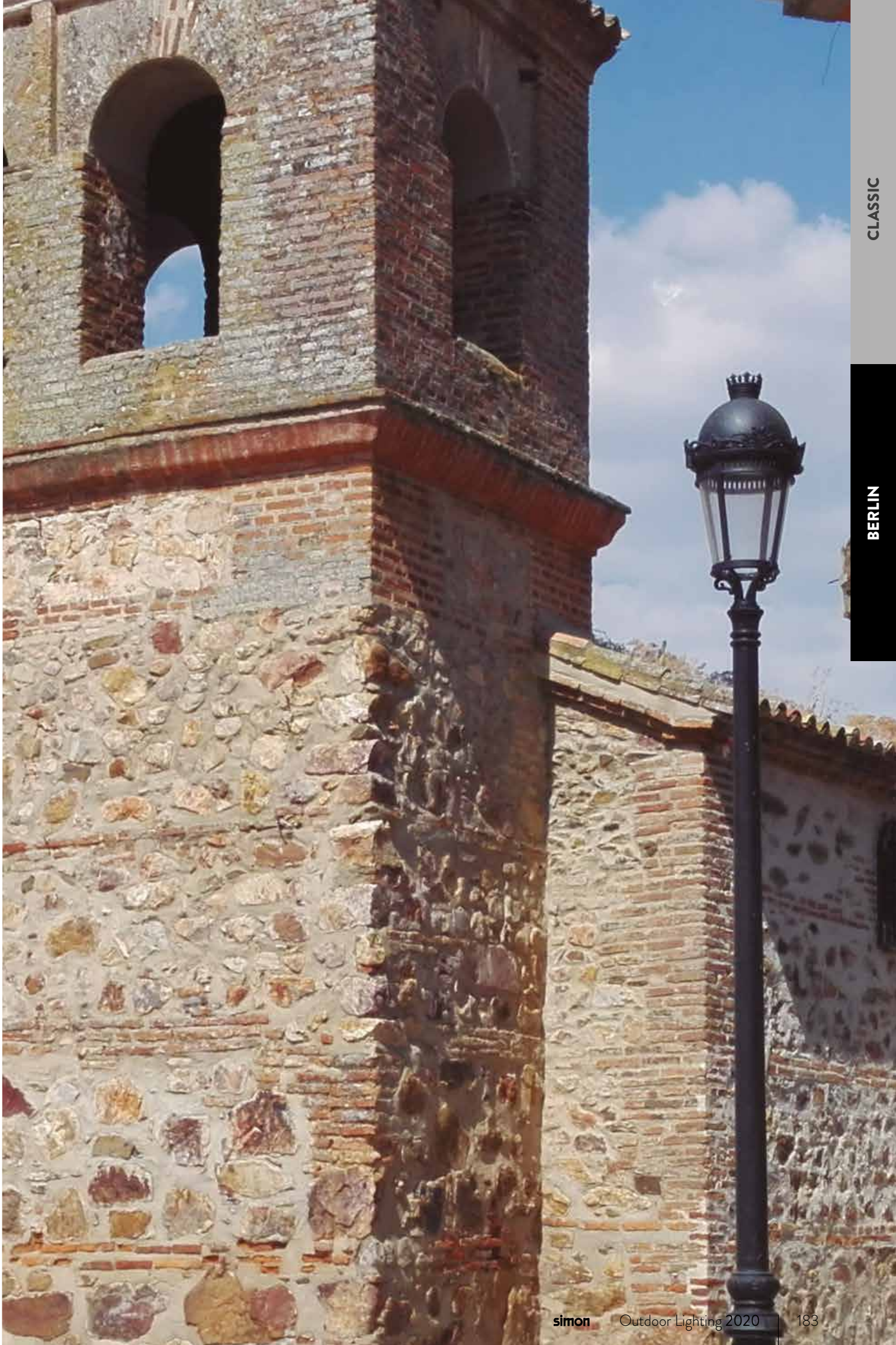
CONFIGURE YOUR BERLIN LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
BERMPC										Simon BERLIN Istanium® LED, size M, ¾" G post-top fastening, tapered cover with crown
	MTB									Curved Transparent PMMA Diffuser
	MOB									Curved Opal PMMA Diffuser
	MEB									Curved Engraved PMMA Diffuser
		0								Without installation wire (0 m)
		5								With installation wire (5 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			SA_							A Type Symmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
									<input type="radio"/> NDL	Neutral daylight - 4,000 K
									<input type="radio"/> WDL	Warm daylight – 3,000 K
									<input type="radio"/> SDL	Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,760 lm @ 4,000 K 12 LEDs
					_24W700					24 W 700 mA 3,360 lm @ 4,000 K 12 LEDs
					_36W530					36 W 530 mA 4,960 lm @ 4,000 K 24 LEDs
					_49W700					49 W 700 mA 6,330 lm @ 4,000 K 24 LEDs
					_54W530					54 W 530 mA 7,390 lm @ 4,000 K 36 LEDs
					_73W700					73 W 700 mA 9,300 lm @ 4,000 K 36 LEDs
									IA23_	Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
									IA23S	Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
									IA12_	Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming
									2N-_	Dimming without control line (self-dimming)
									2N+_	Dimming with control line
									1N_	Without dimming (on/off)
									CAD_	Cabinet amplitude dimming (electrical box dimmer)
									1-10	Dimming through 1.10 V input protocol
									DALI	Dimming through DALI input protocol
									C1	Class 1 Luminaire electrical protection
									C2	Class 2 Luminaire electrical protection
									C3	Class 3 (DC exclusive)
									BKCLAS	Standard finish in Simon Forged Sand Blasted Black
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL Classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	BERMPCMTB0RJ_NDL_12W350IA23_1N__C1BKCLAS	302-000380014
24 W	12	700 mA	BERMPCMTB0RJ_NDL_24W700IA23_1N__C1BKCLAS	302-000378014
36 W	24	530 mA	BERMPCMTB0RJ_NDL_36W530IA23_1N__C1BKCLAS	302-000219014
49 W	24	700 mA	BERMPCMTB0RJ_NDL_49W700IA23_1N__C1BKCLAS	302-000186014
54 W	36	530 mA	BERMPCMTB0RJ_NDL_54W530IA23_1N__C1BKCLAS	302-000375014
73 W	36	700 mA	BERMPCMTB0RJ_NDL_73W700IA23_1N__C1BKCLAS	302-000371014

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



CLASSIC

BERLIN

COMBINE YOUR BERLIN LUMINAIRE WITH:



DECORATIVE POLES:

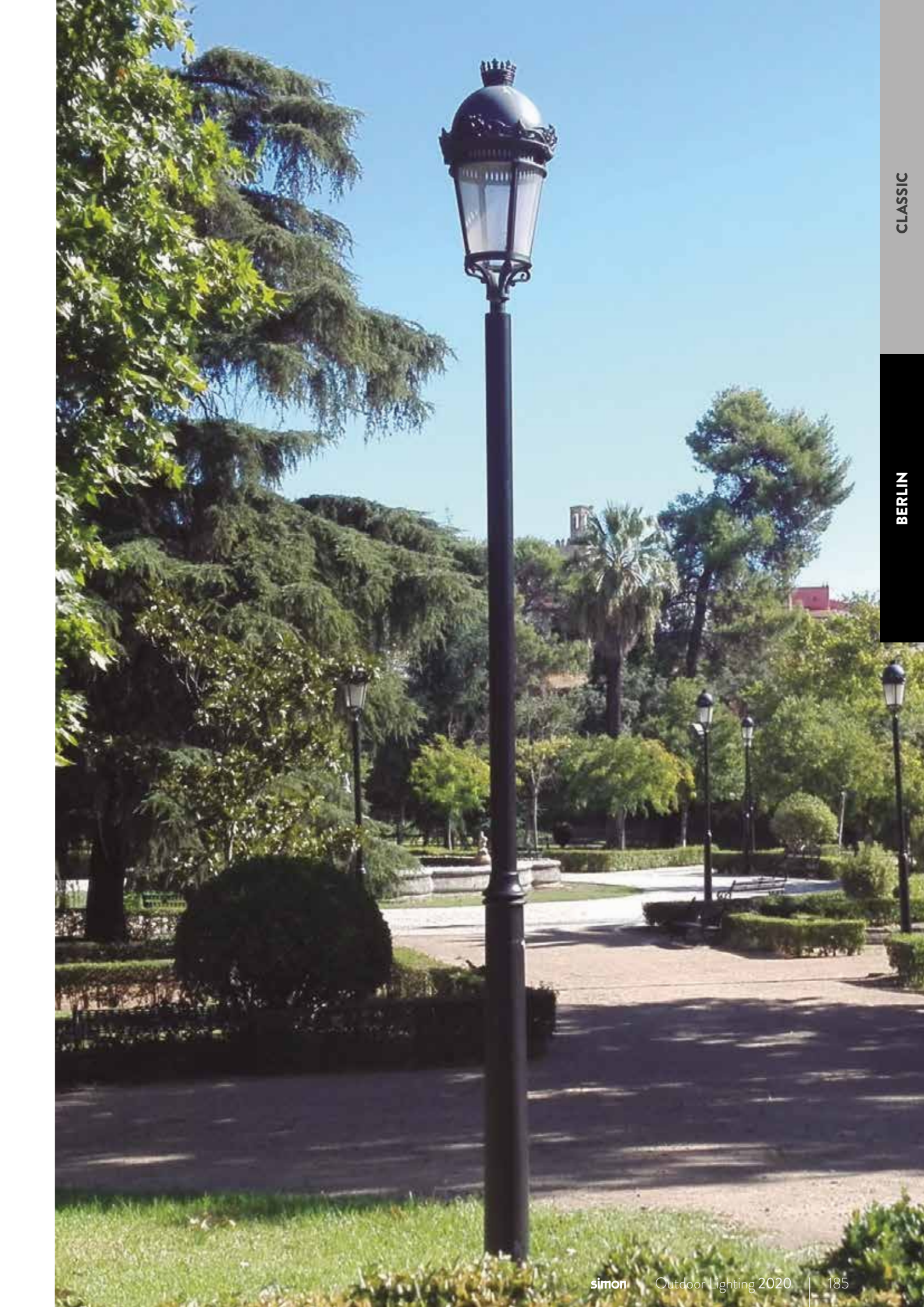


CLASSIC

BERLIN

ACCESSORIES / REPLACEMENTS

	Description	Order code
	3/4" G fastening adaptor to Ø60 in BKCLAS	50-73542
	Curved Transparent (MTB)	50-73054
	Curved Opal PMMA Diffuser (MEB)	50-73056
	Curved Engraved PMMA Diffuser (MOB)	50-73055

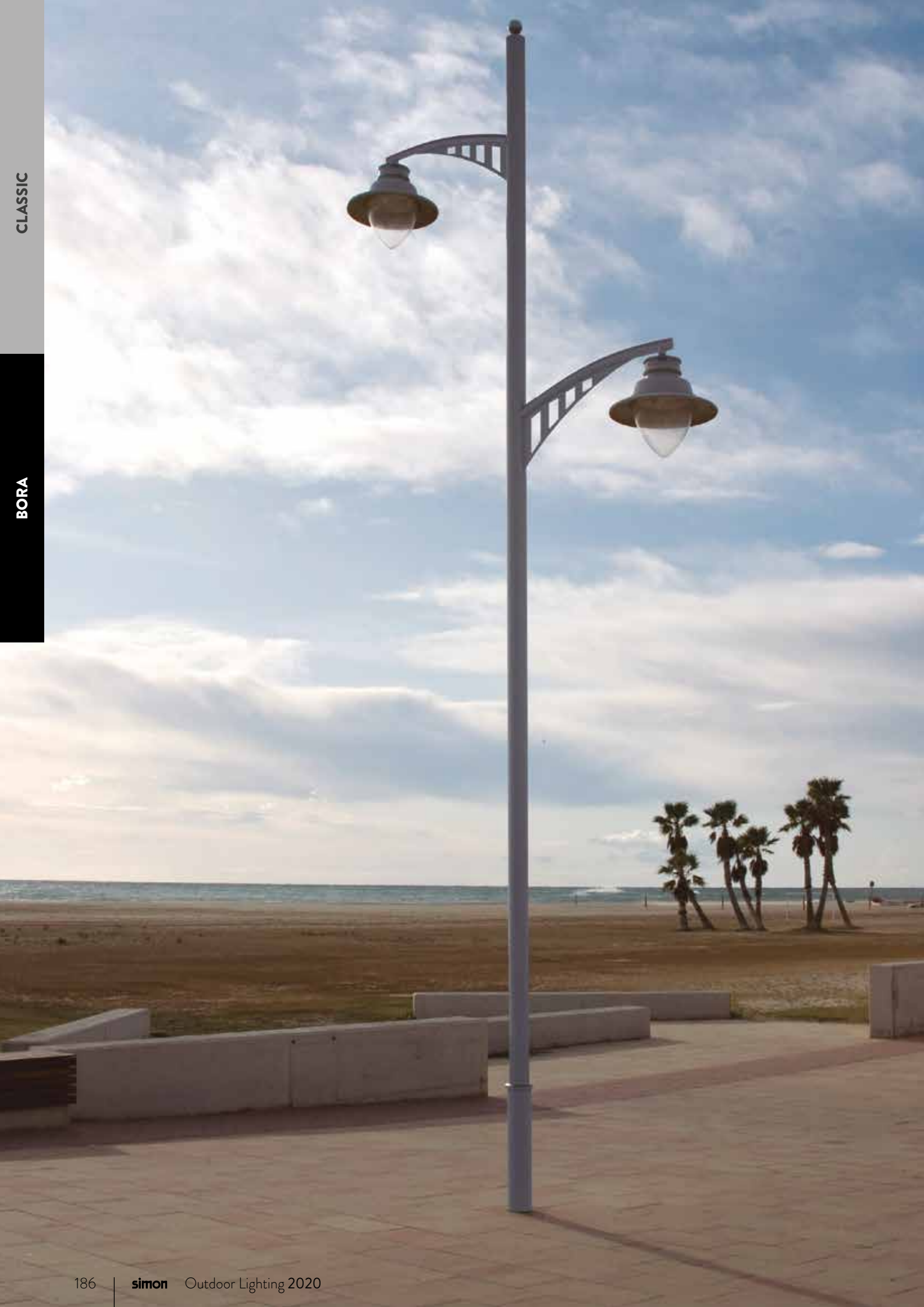


CLASSIC

BERLIN

CLASSIC

BORA





BORA

ISTANIUM^{LED}®

Simon BORA Istanium LED® classic decorative urban luminaire in spin-formed aluminium with suspended fastening and die-cast aluminium fastening system. Tapered cover design and refrigeration system through fins. Lenticular (ATL) or acorn (ATB) transparent PMMA diffuser.



Avenues



Streets



Pedestrian streets



Commercial areas



Parks / gardens



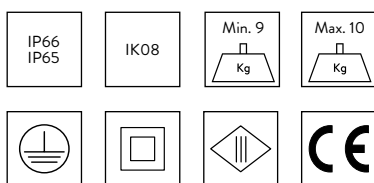
Squares



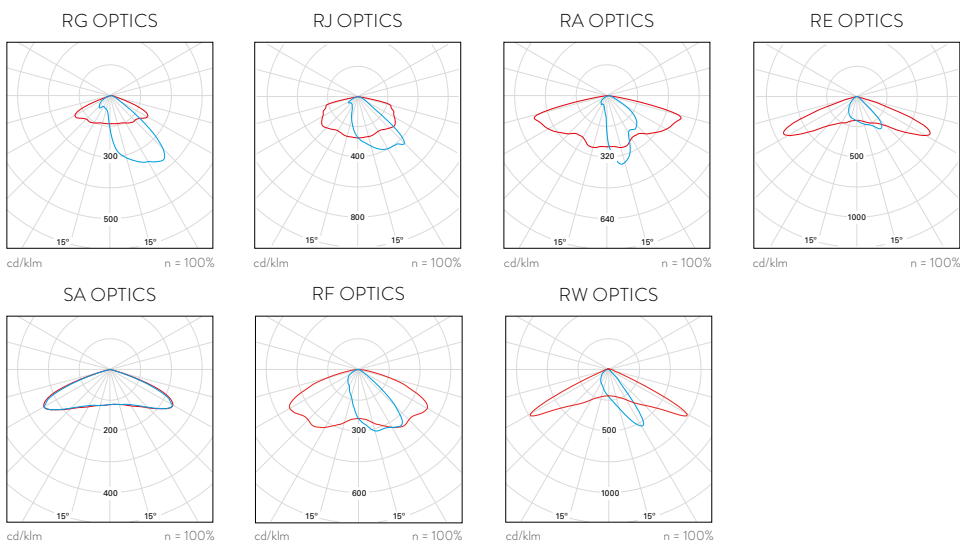
BORA

ISTANIUM^{LED}®

CLASSIC LED LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR):
 <1 % (E1 areas), with lenticular transparent PMMA diffuser
 <5 % (E2 areas) with curved transparent PMMA diffuser
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000^h



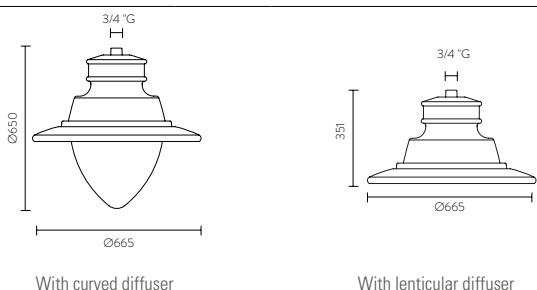
— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

Simon **BORA LED** classic luminaire, size **M**, with spin-formed aluminium body and die-cast aluminium fastening system. 3/4" G suspended fastening. Tapered cover. Internal refrigeration system through fins. Access to gear and maintenance from the bottom with stainless steel screw opening. Curved transparent PMMA high-impact resistant (HIR) diffuser or lenticular transparent PMMA high-impact resistant (HIR) diffuser to facilitate cleaning and prevent UV radiation in the optics. **IP66** protection rating for the Istantium LED optical group and **IK08** impact resistance rating. Possibility of mounting up to ten multi-array optics, to guarantee the homogeneity of the photometry. Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas. LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 5% for the curved diffuser and of less than 1% for the lenticular diffuser. With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage and **Class III** with 12 / 24V DC supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA. Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO). Standard finish in Simon DGCLAS colour. Possibility of Simon and RAL chart finishes. Dimensions 665x650x665 mm with curved diffuser and 665x351x665 with lenticular diffuser.

DIMENSIONS AND FASTENING SYSTEMS



Suspended fastening	Fastening to threaded tube of 3/4" G x 50 mm
Surface exposed to the wind	0.18 m ²
Weight	Max. 10 kg Min. 9 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66 / IP65
IK	IK08
Body	Spin-formed aluminium
Closure system	Stainless steel screws
Fastening system	Die-cast aluminium
Diffuser	Transparent PMMA with high impact resistance (HIR)

FINISHES

Body	Simon Colours RAL chart colours
-------------	------------------------------------

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol

	Luminaires supplied by electrical grid	Luminaires supplied by solar lighting points	
Supply voltage	220-240V AC	12 / 24V DC	
Frequency	50 / 60 Hz	-	
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)	-	
Power factor (cos φ at max. charge)	≥0.95	-	
Luminaire electrical protection	Class I or Class II	Class III	
Power according to models***	12 LEDs	24 LEDs	36 LEDs
Supply current	1mod.	2mod.	3mod.
HIGH EFFICIENCY	12 W	24 W	35 W
HIGH BALANCE	18 W	36 W	54 W
HIGH FLUX	24 W	49 W	73 W
VERY HIGH FLUX	-	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.



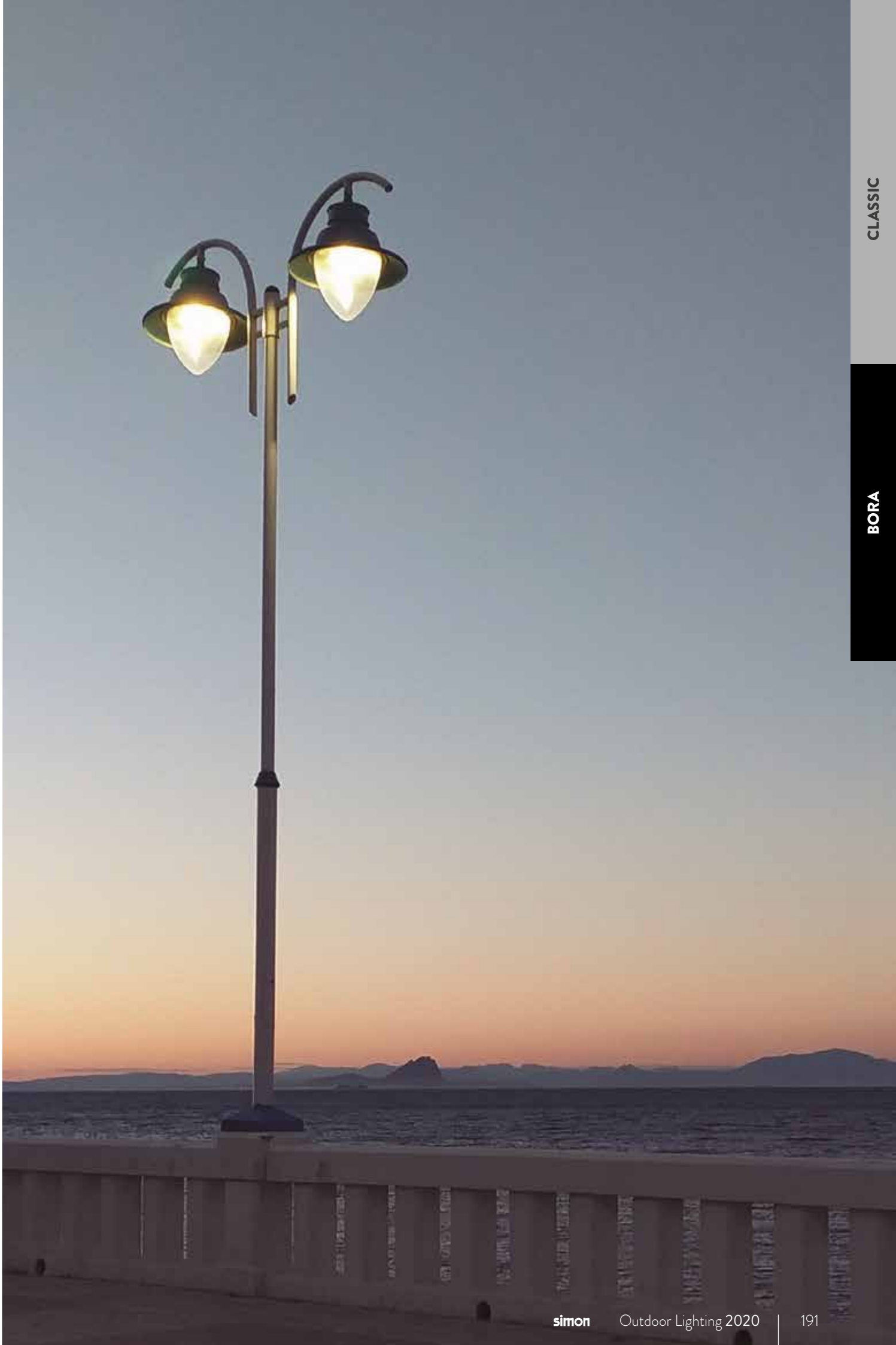
CONFIGURE YOUR BORA LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
BORMHC										Simon BORA Istanium® LED luminaire, size M, suspended fastening, tapered cover
	ATB									Curved Transparent PMMA High-Impact Resistant Diffuser
	ATL									Lenticular Transparent PMMA High-Impact Resistant Diffuser
		0								Without installation wire (0 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			SA_							A Type Symmetric Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
									<input type="radio"/> NDL	Neutral daylight - 4,000 K
									<input type="radio"/> WDL	Warm daylight – 3,000 K
									<input type="radio"/> SDL	Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,760 lm @ 4,000 K 12 LEDs
					_24W700					24 W 700 mA 3,360 lm @ 4,000 K 12 LEDs
					_36W530					36 W 530 mA 4,960 lm @ 4,000 K 24 LEDs
					_49W700					49 W 700 mA 6,330 lm @ 4,000 K 24 LEDs
					_54W530					54 W 530 mA 7,390 lm @ 4,000 K 36 LEDs
					_73W700					73 W 700 mA 9,300 lm @ 4,000 K 36 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
						IA12_				Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming
						2N-_				Dimming without control line (self-dimming)
						2N+_				Dimming with control line
						1N_				Without dimming (on/off)
						CAD_				Cabinet amplitude dimming (electrical box dimmer)
						1-10				Dimming through 1.10 V input protocol
						DALI				Dimming through DALI input protocol
						C1				Class 1 Luminaire electrical protection
						C2				Class 2 Luminaire electrical protection
						C3				Class 3 (DC exclusive)
									DGCLAS	Standard finish in Simon Forged Sand Blasted Dark Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL Classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	BORMHCATB0RJ_NDL_12W350IA23_1N__C1DGCLAS	301-000380029
12 W	12	350 mA	BORMHCATL0RJ_NDL_12W350IA23_1N__C1DGCLAS	338-000380029
24 W	12	700 mA	BORMHCATB0RJ_NDL_24W700IA23_1N__C1DGCLAS	301-000378029
24 W	12	700 mA	BORMHCATL0RJ_NDL_24W700IA23_1N__C1DGCLAS	338-000378029
36 W	24	530 mA	BORMHCATB0RJ_NDL_36W530IA23_1N__C1DGCLAS	301-000219029
36 W	24	530 mA	BORMHCATL0RJ_NDL_36W530IA23_1N__C1DGCLAS	338-000219029
49 W	24	700 mA	BORMHCATB0RJ_NDL_49W700IA23_1N__C1DGCLAS	301-000186029
49 W	24	700 mA	BORMHCATL0RJ_NDL_49W700IA23_1N__C1DGCLAS	338-000186029
54 W	36	530 mA	BORMHCATB0RJ_NDL_54W530IA23_1N__C1DGCLAS	301-000375029
54 W	36	530 mA	BORMHCATL0RJ_NDL_54W530IA23_1N__C1DGCLAS	338-000375029
73 W	36	700 mA	BORMHCATB0RJ_NDL_73W700IA23_1N__C1DGCLAS	301-000371029
73 W	36	700 mA	BORMHCATL0RJ_NDL_73W700IA23_1N__C1DGCLAS	338-000371029

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



CLASSIC

BORA

COMBINE YOUR BORA LUMINAIRE WITH:

DECORATIVE POLES:

8 M

7 M

6 M

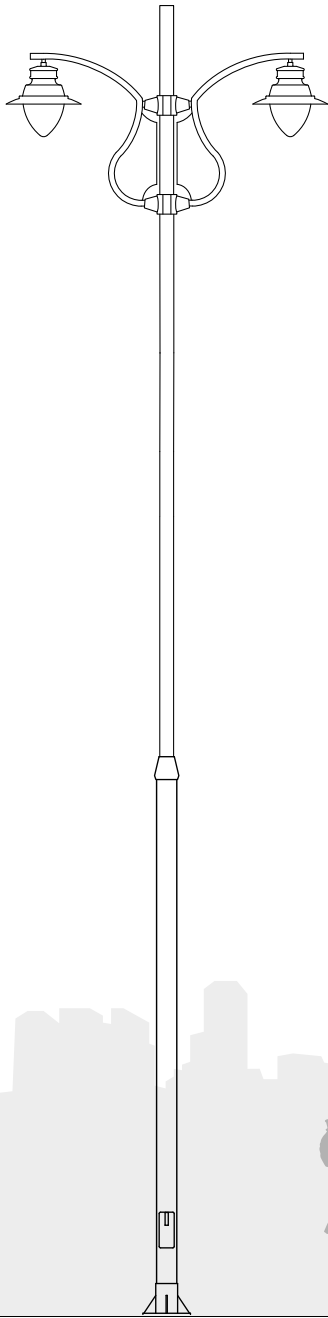
5 M

4 M

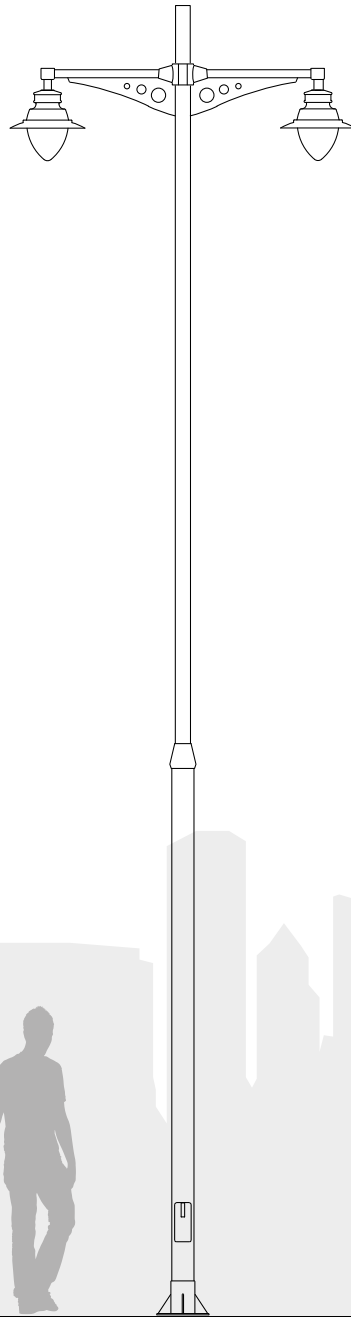
3 M

2 M

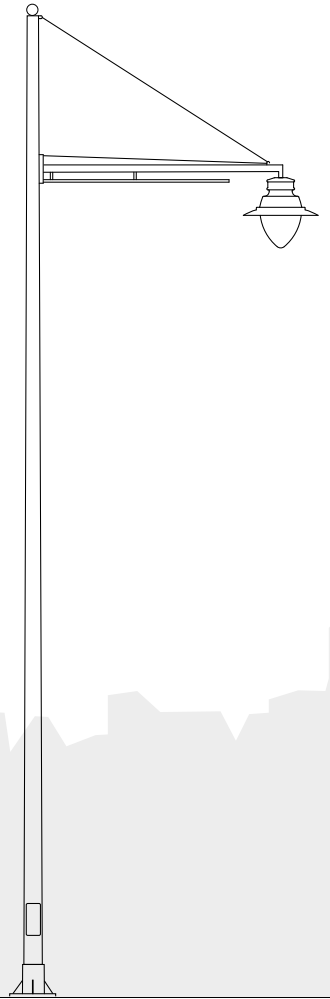
1 M



LINK SYSTEM
CLASSIC



LINK SYSTEM
ECOCLAS



BOTAVARA

OTHER DECORATIVE POLES: TALYA LH



ACCESSORIES / REPLACEMENTS

Description	Order code
Curved transparent PMMA with high-impact resistance diffuser replacement (ATB)	50-71246



LUMINAIRES

SPOTLIGHT

KOS
NEW**FOGO****DEMON****MILOS**
M/S**LORE****LOREGON****IRIS LED**

Spotlight lighting allows us to precisely direct light where we want to highlight architectural elements or emphasise areas of interest.

SPOTLIGHT

KOS





KOS

ISTANIUM^{LED}®

Functional spotlight, ideal
for the intensive introduction
of LED technology



Tunnels



Monuments



Bridges



Façades



Sports facilities



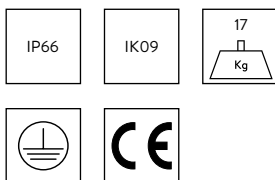
Large areas



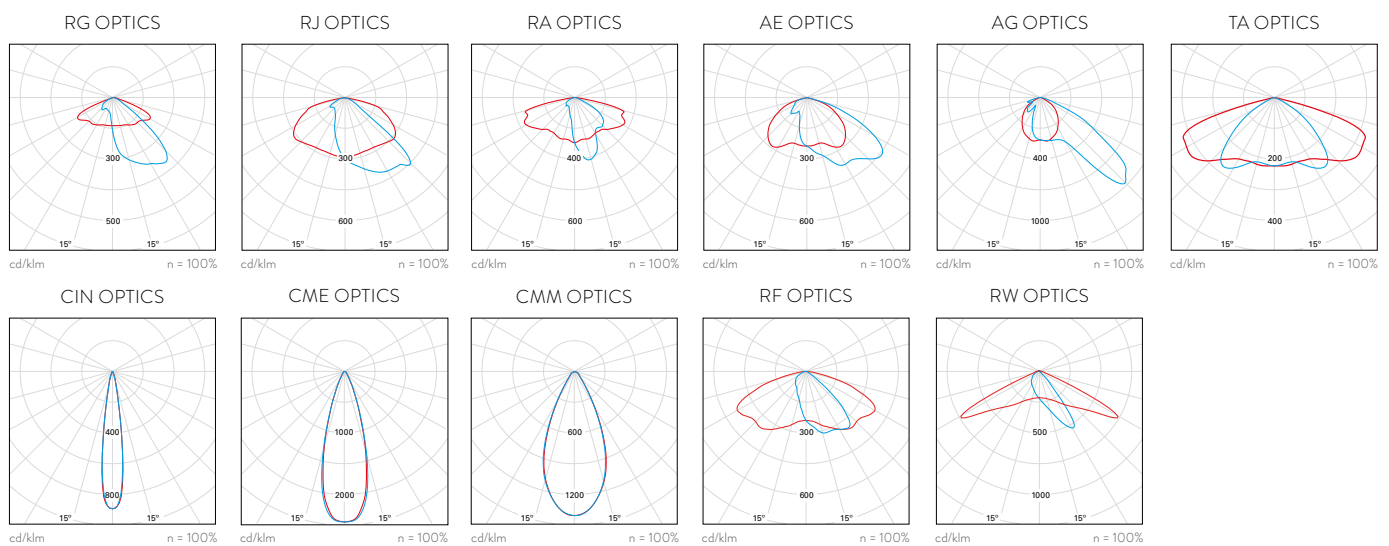
KOS

ISTANIUM^{LED}®

SPOTLIGHT LED LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)**
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000`h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

** Orientation between 0° and 5°

Simon **KOS LED** luminaire, size **L**, made of die - cast aluminium. Bracket fastening.

Flat cover with non-visible cooling fins in installed position. Self-cleaning system by means of rainwater, which allows its correct evacuation without dirtying the luminaire, preventing the lighting performance from being affected over time.

Easy - clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. IP66 protection index for the Istanium LED optical group, with a pressure relief valve to keep the pressure constant and prevent moisture from entering, and an impact resistance index of IK09.

With pre-wiring of 20 cm and IP67 connector.

Possibility of mounting up to fifteen multi-array optics, to guarantee the homogeneity of the photometry. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

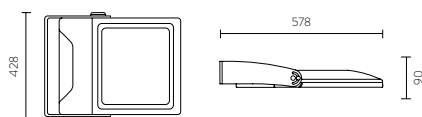
LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1% with an angle of 0° to ± 5°.

With **Class I** electronic control gear with 230V AC / 50 Hz power supply. Possibility of including additional protection against surges of 10 kV/10 kA and automatic disconnection when opening the gear compartment.

Optional dimming without control line (Self-dimming) 2N-, through telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GY9007 colour. Possibility of Simon and RAL chart finishes. Dimensions 428x578x90 mm.

DIMENSIONS AND FASTENING SYSTEMS



Fastening	Bracket, Ø13 mm, Ø15 mm, Ø13 mm fastening holes. Downward focus, maximum 15° angle
Wire inlet	IP67 external connector
Surface exposed to the wind	0.03 m ² 0.21 m ²
Weight	17 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK09
Body	Die-cast aluminium
Closure system	With stainless steel screws
Fastening system	Painted galvanised sheet steel
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
-------------	------------------------------------

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol
Luminaires supplied by electrical grid	
Supply voltage	220-240V AC
Frequency	50 / 60 Hz
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)
Power factor (cos φ at max. charge)	≥0.95
Luminaire electrical protection	Class I
Power according to models***	100 LEDs
Supply current	
HIGH EFFICIENCY	98 W
HIGH BALANCE	151 W
HIGH FLUX	203 W
VERY HIGH FLUX	292 W****

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-5 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7% ****980 mA.



CONFIGURE YOUR KOS LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
KOSLXF										Simon KOS Istanium® LED Luminaire, size L, bracket fastening
	GTF									Flat transparent shatter-proof tempered glass diffuser
		P								With installation wiring (0.2 m) and IP67 watertight connector
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			AE_							E Type Asymmetric Optics
			AG_							G Type Asymmetric Optics
			TA_							Overhead Tunnel Optics
			CIN							Intensive Tapered Optics
			CME							E Type Medium Tapered Optics
			CMM							M Type Medium Tapered Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
				<input type="radio"/>	NDL					Neutral daylight - 4,000 K
				<input type="radio"/>	WDL					Warm daylight – 3,000 K
				<input type="radio"/>	SDL					Soft daylight - 2,700 K
					_98W350					98 W 350 mA 15,960 lm @ 4,000K 100 LEDs
					151W530					151 W 530 mA 22,410 lm @ 4,000K 100 LEDs
					203W700					203 W 700 mA 28,580 lm @ 4,000K 100 LEDs
					292W980					292 W 980 mA 36,150 lm @ 4,000K 100 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
							2N_			Dimming without control line (self-dimming)
							1N_			Without dimming (on/off)
							1-10			Dimming through 1.10 V input protocol
							DALI			Dimming through DALI input protocol
								C1		Class 1 Luminaire electrical protection
									GY9007	Standard finish in Simon RAL GY9007
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL classic chart colours

BASE REFERENCES

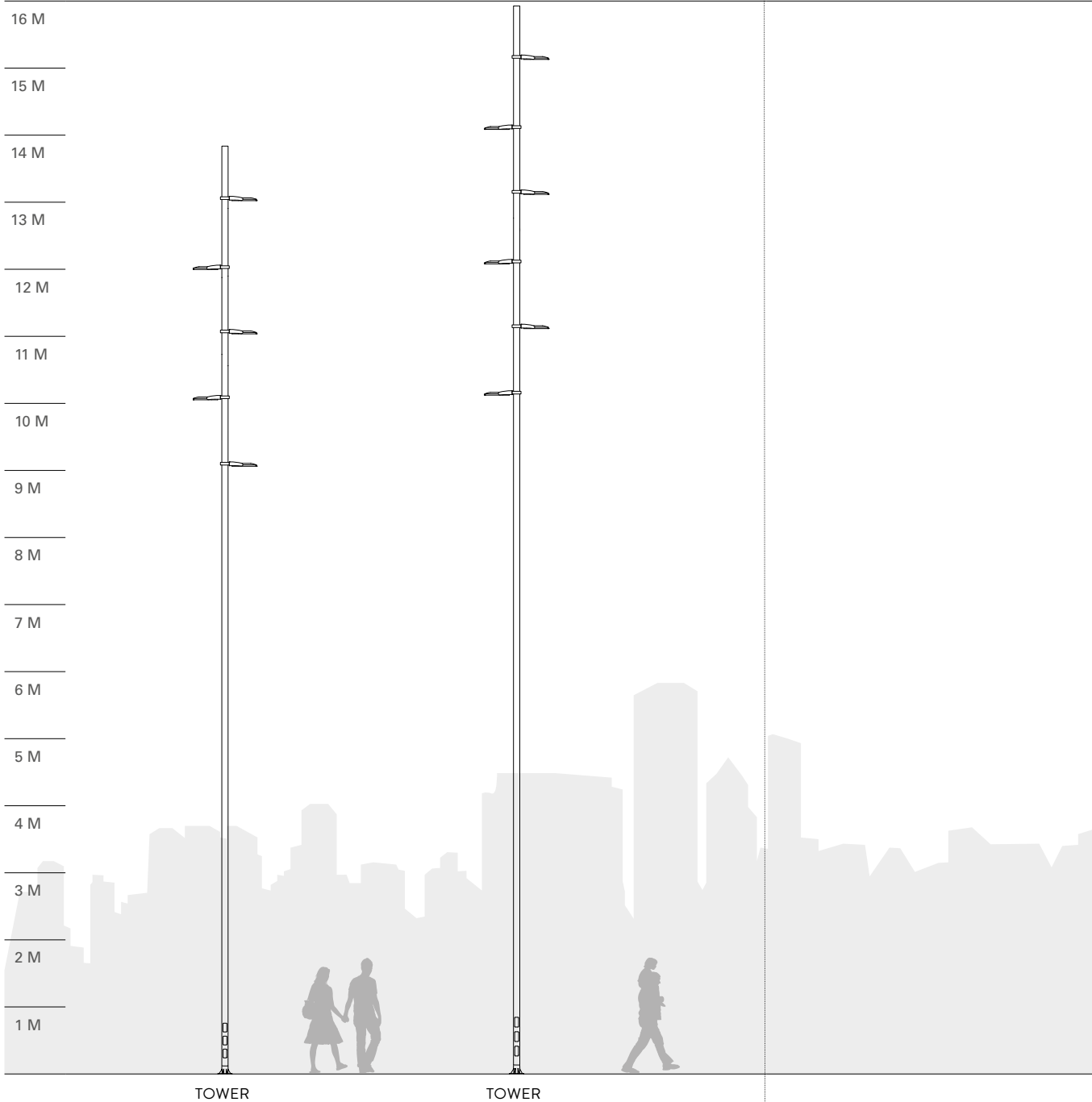
Power	No. of LEDs	Current	Configuration	Order code
98 W	100	350 mA	KOSLXFGTFPAG_NDL_98W350IA23_1N_C1GY9007	412-002349016
151 W	100	530 mA	KOSLXFGTFPAG_NDL151W530IA23_1N_C1GY9007	412-002348016
203 W	100	700 mA	KOSLXFGTFPAG_NDL203W700IA23_1N_C1GY9007	412-002347016
292 W	100	980 mA	KOSLXFGTFPAG_NDL292W980IA23_1N_C1GY9007	412-002346016

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



COMBINE YOUR KOS LUMINAIRE WITH:

FUNCTIONAL POLES:



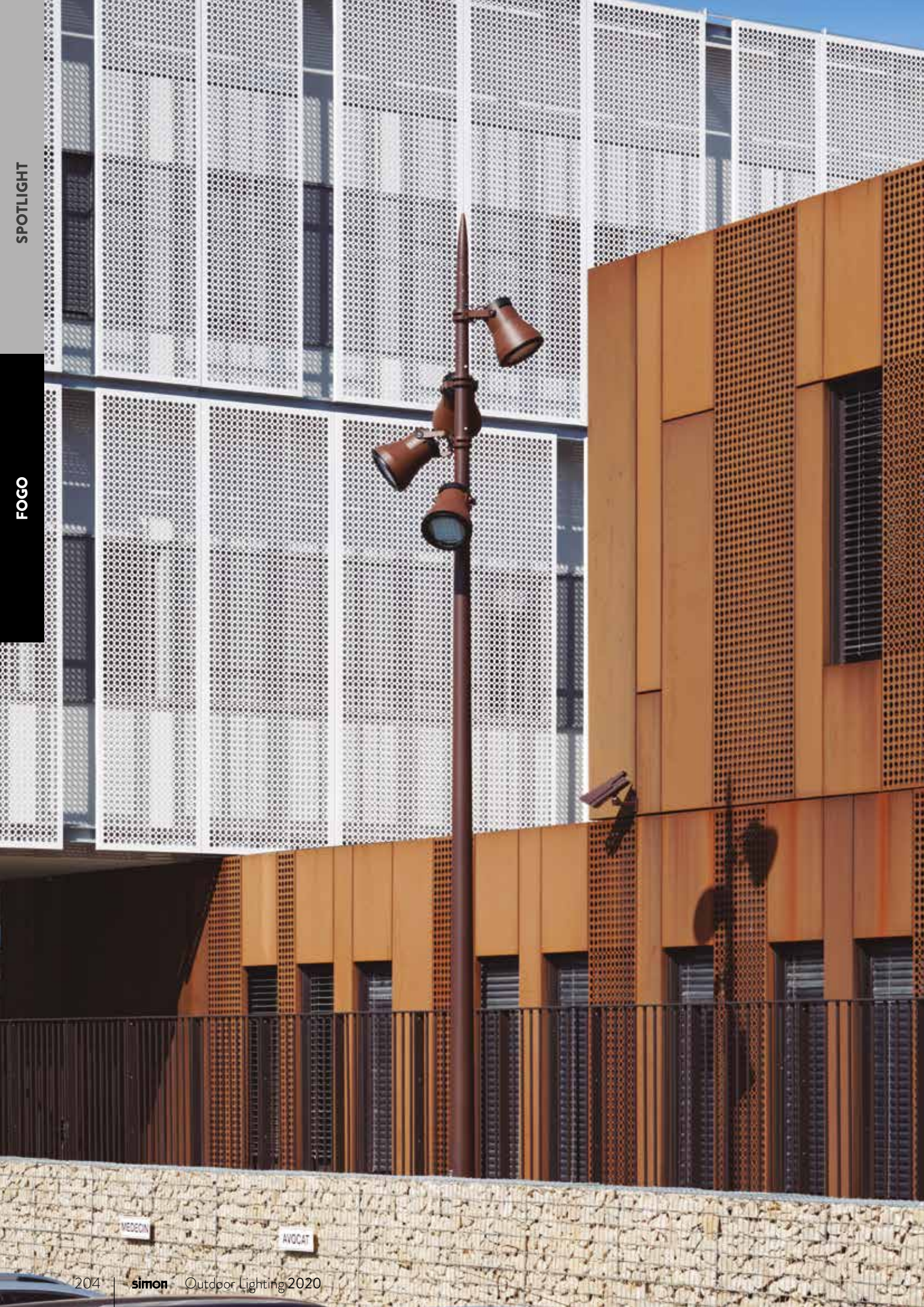
OTHER DECORATIVE POLES:
TORT, TIL

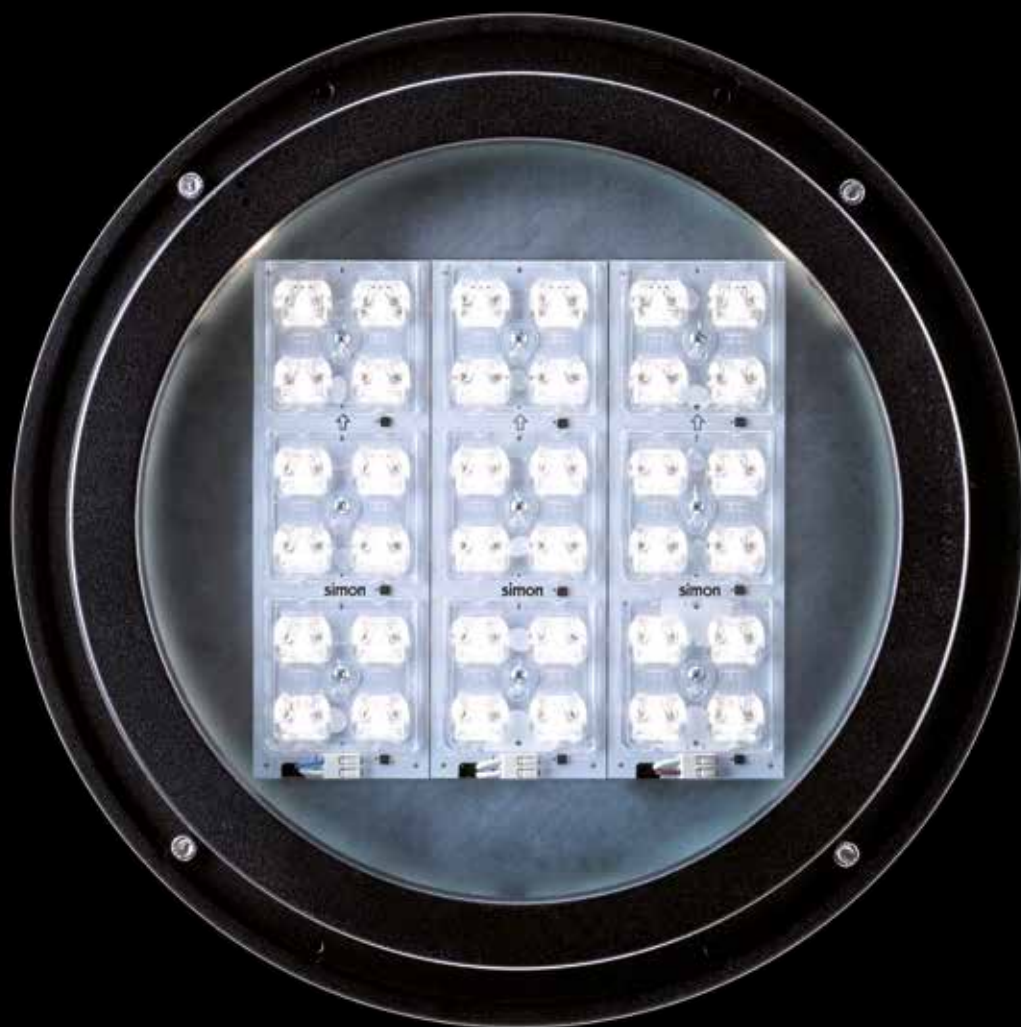
SPOTLIGHT

KOS

SPOTLIGHT

FOGO





FOGO

ISTANIUM^{LED}®

Functional spotlight, ideal
for the intensive introduction
of LED technology



Parking areas



Streets



Pedestrian streets



Commercial areas



Parks / Gardens



Squares



Urban cycle path



Roundabouts / Intersections



Monuments



Bridges



Façades



Large areas



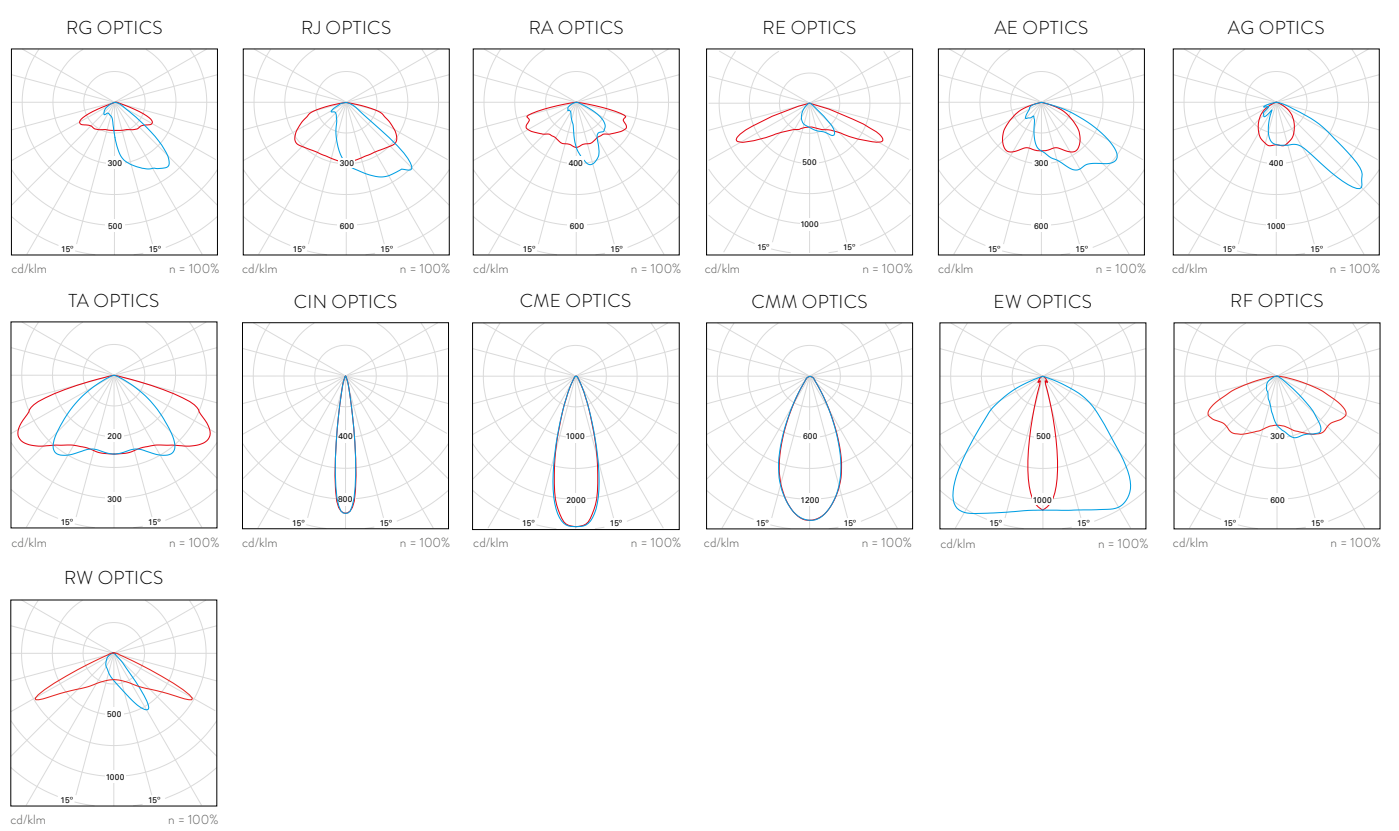
FOGO

ISTANIUM^{LED}

SPOTLIGHT LED LUMINAIRE

IP66	IK08 IK10	Min. 12.25 Kg	Max. 12.50 Kg

COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)**
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

** Orientation between 0° and 5°

Simon **FOGO LED** spotlight, size **S**, made of die-cast aluminium. Bracket fastening.

Flat cover. Internal refrigeration system through fins. Access to gear and maintenance from the back with four-screw opening. Access to optical group from the front with four-screw opening.

Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection rating for full spotlight and **IK08** impact resistance rating, or **IK10** with protective grille accessory.

Possibility of mounting up to fifteen multi-array optics.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

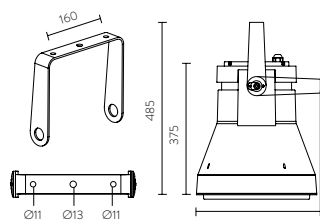
LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1% with an angle of 0° to ± 5°.

With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage and Class III with 12 / 24V DC supply voltage. Possibility of including additional protection against surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYTECH colour, and bracket trim, front trim ring and back cover in Simon BKTECH colour. Possibility of Simon and RAL chart finishes. Dimensions 329x485x329 mm.

DIMENSIONS AND FASTENING SYSTEMS



Fastening Bracket, Ø11 mm, Ø13 mm, Ø11 mm fastening holes

Wire inlet Compression seal fittings Pg 13.5 (M20)

Distance of illuminated objects 1m

Surface exposed to the wind  0.085 m²

 0.098 m²

Weight Max. 12.50 kg Min. 12.25 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08 IK10 (with protective grille)
Base	Die-cast aluminium
Closure system	With stainless steel screws
Fastening system	Painted galvanised sheet steel
Diffuser	Flat, transparent, tempered glass

FINISHES

Body and bracket	Simon Colours RAL chart colours
Bracket trim, front trim ring and back cover	BKTECH

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-5 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 5 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol

	Luminaires supplied by electrical grid	Luminaires supplied by solar lighting points
--	--	--

Supply voltage 220-240V AC 12-24V DC

Frequency 50 / 60 Hz -

Protection against power surge 6 kV (Possibility of increasing to 10 kV / 10 kA upon request) -

Power factor (cos φ at max. charge) ≥0.95 -

Luminaire electrical protection Class I or Class II Class III

Power according to models*** 12 LEDs 24 LEDs 36 LEDs

Supply current 1mod. 2mod. 3mod.

HIGH EFFICIENCY 12 W 24 W 35 W

HIGH BALANCE 18 W 36 W 54 W

HIGH FLUX 24 W 49 W 73 W

VERY HIGH FLUX - - -



CONFIGURE YOUR FOGO LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
FOGSXF										Simon FOGO Istanium® LED, size S, bracket fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser
		0								Without installation wire (0 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			AE_							E Type Asymmetric Optics
			AG_							G Type Asymmetric Optics
			TA_							Overhead Tunnel Optics
			CIN							Intensive Tapered Optics
			CME							E Type Medium Tapered Optics
			CMM							M Type Medium Tapered Optics
			EW_							Wide Elliptical Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
				<input type="radio"/>	NDL					Neutral daylight - 4,000 K
				<input type="radio"/>	WDL					Warm daylight – 3,000 K
				<input type="radio"/>	SDL					Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,760 lm @ 4,000 K 12 LEDs
					_24W700					24 W 700 mA 3,360 lm @ 4,000 K 12 LEDs
					_36W530					36 W 530 mA 4,960 lm @ 4,000 K 24 LEDs
					_49W700					49 W 700 mA 6,330 lm @ 4,000 K 24 LEDs
					_54W530					54 W 530 mA 7,390 lm @ 4,000 K 36 LEDs
					_73W700					73 W 700 mA 9,300 lm @ 4,000 K 36 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
						IA12_				Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming
						2N_				Dimming without control line (self-dimming)
						2N+				Dimming with control line
						1N_				Without dimming (on/off)
						CAD_				Cabinet amplitude dimming (electrical box dimmer)
						1-10				Dimming through 1.10 V input protocol
						DALI				Dimming through DALI input protocol
							C1			Class 1 Luminaire electrical protection
							C2			Class 2 Luminaire electrical protection
							C3			Class 3 (DC exclusive)
								GYTECH		Standard finish in Simon Technical Grey
								*****		Finish in Simon colours (see page 514)
								*****		Finish in AL classic chart colours

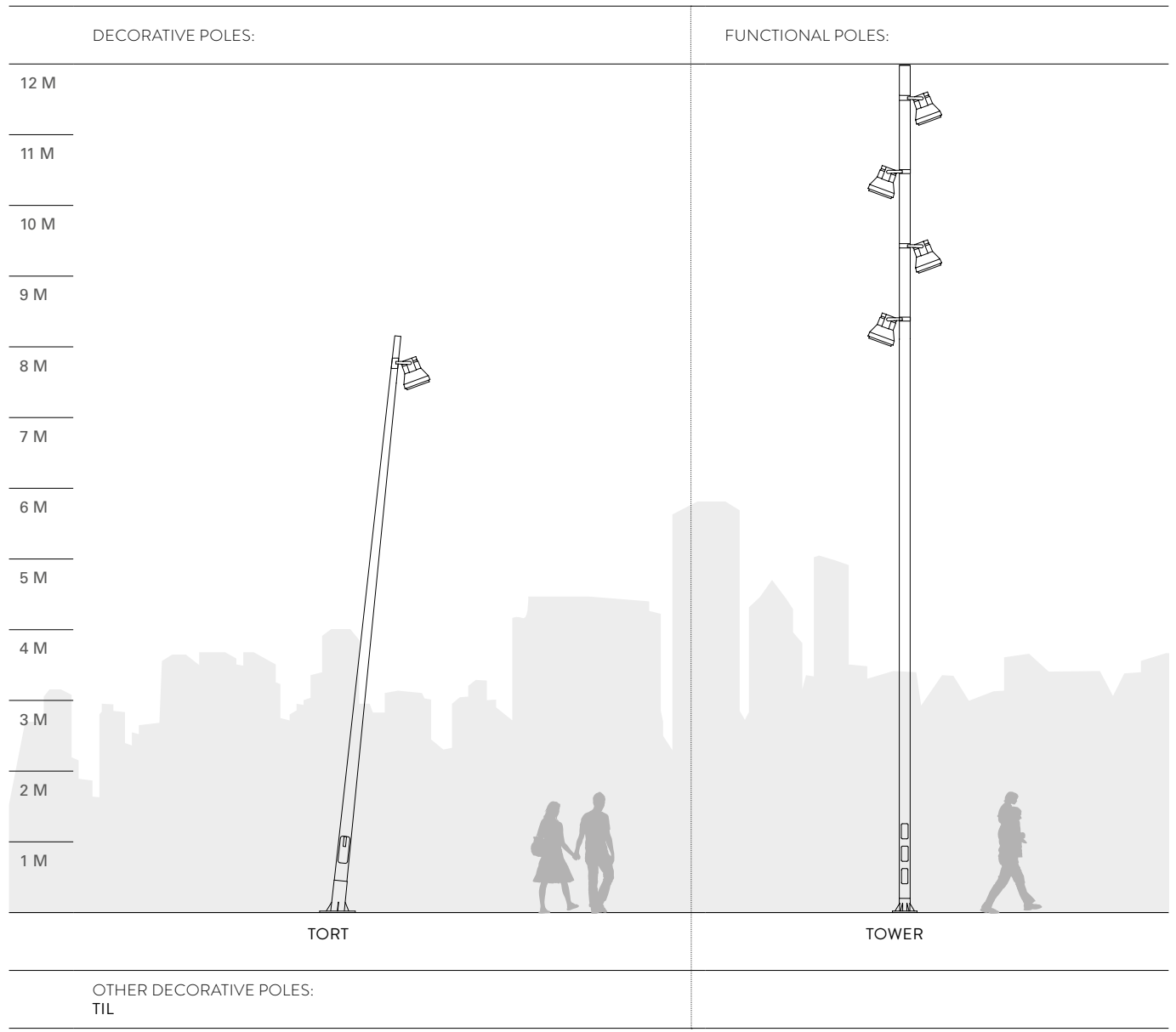
BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	FOGSXFGTFORJ_NDL_12W350IA23_1N_C1GYTECH	408-000380012
24 W	12	700 mA	FOGSXFGTFORJ_NDL_24W700IA23_1N_C1GYTECH	408-000378012
36 W	24	530 mA	FOGSXFGTFORJ_NDL_36W530IA23_1N_C1GYTECH	408-000219012
49 W	24	700 mA	FOGSXFGTFORJ_NDL_49W700IA23_1N_C1GYTECH	408-000186012
54 W	36	530 mA	FOGSXFGTFORJ_NDL_54W530IA23_1N_C1GYTECH	408-000375012
73 W	36	700 mA	FOGSXFGTFORJ_NDL_73W700IA23_1N_C1GYTECH	408-000371012






The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes



COMBINE YOUR FOGO LUMINAIRE:



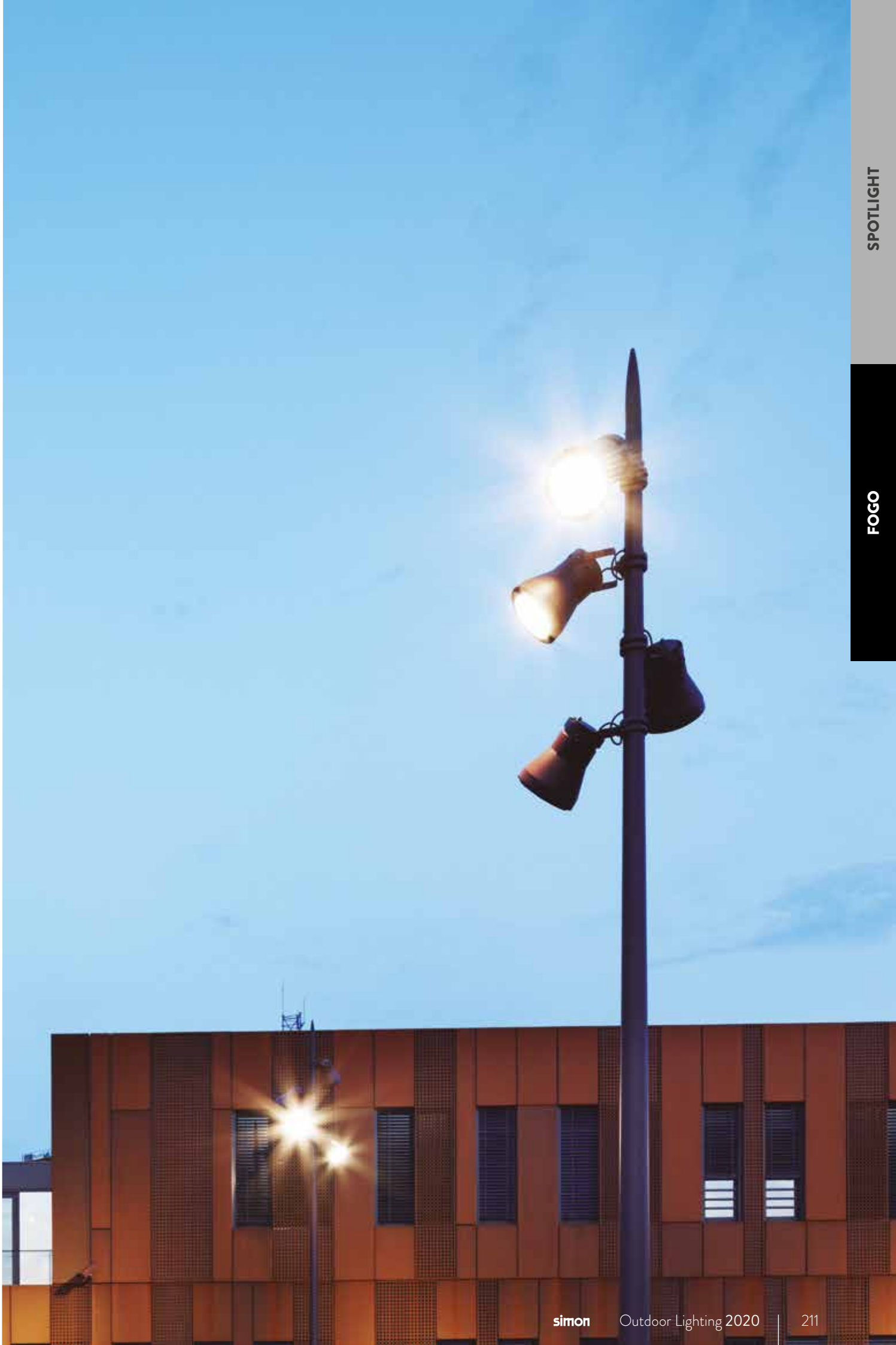
ACCESSORIES / REPLACEMENTS

Description	Finish	Order code
 Simple arm for flush spotlight	Galvanised	5-531830
	GYTECH	5-531830-012
	GYDECO	5-531830-013
 Simple arm for spotlight, 200 mm length	Galvanised	5-531838
	GYTECH	5-531838-012
	GYDECO	5-531838-013
 Double arm for spotlight, 200 mm length	Galvanised	5-531839
	GYTECH	5-531839-012
	GYDECO	5-531839-013
 Anti-vandalism protective grille	GY9006	50-74603
 Concentric anti-glare grille	Matt Black	50-74605

LUMINAIRES IN THE COLLECTION



FOGO RGB

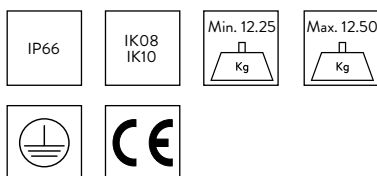




FOGO RGB

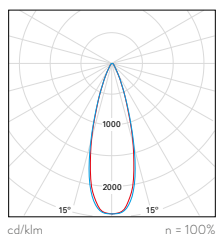
ISTANIUM^{LED}®

DECORATIVE SPOTLIGHT LED LUMINAIRE



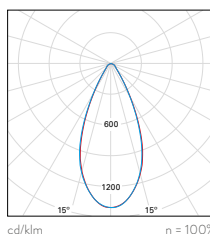
COLOUR TEMP.: RGB
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)*
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000^h

CME OPTICS



cd/klm n = 100%

CMM OPTICS



cd/klm n = 100%

— C0 - C180 — C90 - C270

Check other photometric distributions

* Orientation between 0° and 5°

Simon **FOGO RGB LED** spotlight, size **S**, made of die-cast aluminium. Bracket fastening.

Flat cover. Internal refrigeration system through fins. Access to gear and maintenance from the back with four-screw opening. Access to optical group from the front with four-screw opening.

Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection rating for full spotlight and **IK08** impact resistance rating, or **IK10** with protective grille accessory.

Possibility of mounting two multi-array optics.

LED service life L90 B10 100,000 hours. Instantaneous LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1% with an angle of 0° to ± 5°.

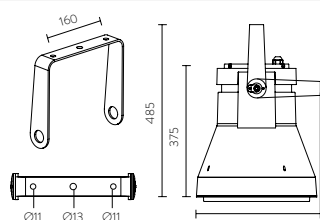
With **Class I** and **Class II** electronic equipment with 230V AC/50 Hz supply voltage. Possibility of including additional protection against surges of 10 kV/10 kA.

Dimming through DMX protocol.

Standard finish in Simon GYTECH colour, and bracket trim, front trim ring and back cover in Simon BKTECH colour. Possibility of Simon and RAL chart finishes.

Dimensions 329x485x329 mm.

DIMENSIONS AND FASTENING SYSTEMS



Fastening Bracket, Ø11 mm, Ø13 mm, Ø11 mm

Distance of illuminated objects 1 m

Surface exposed to the wind  0.085 m²

 0.098 m²

Weight Max. 12.50 kg Min. 12.25 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	K08 IK10 (with protective grille)
Base	Die-cast aluminium
Closure system	With stainless steel screws
Fastening system	Painted galvanised sheet steel
Diffuser	Flat, transparent, tempered glass

FINISHES

Body and bracket	Simon Colours RAL chart colours
Bracket trim, upper ring and lower ring	BKTECH

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-5 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 5 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%

ELECTRICAL PARAMETERS *

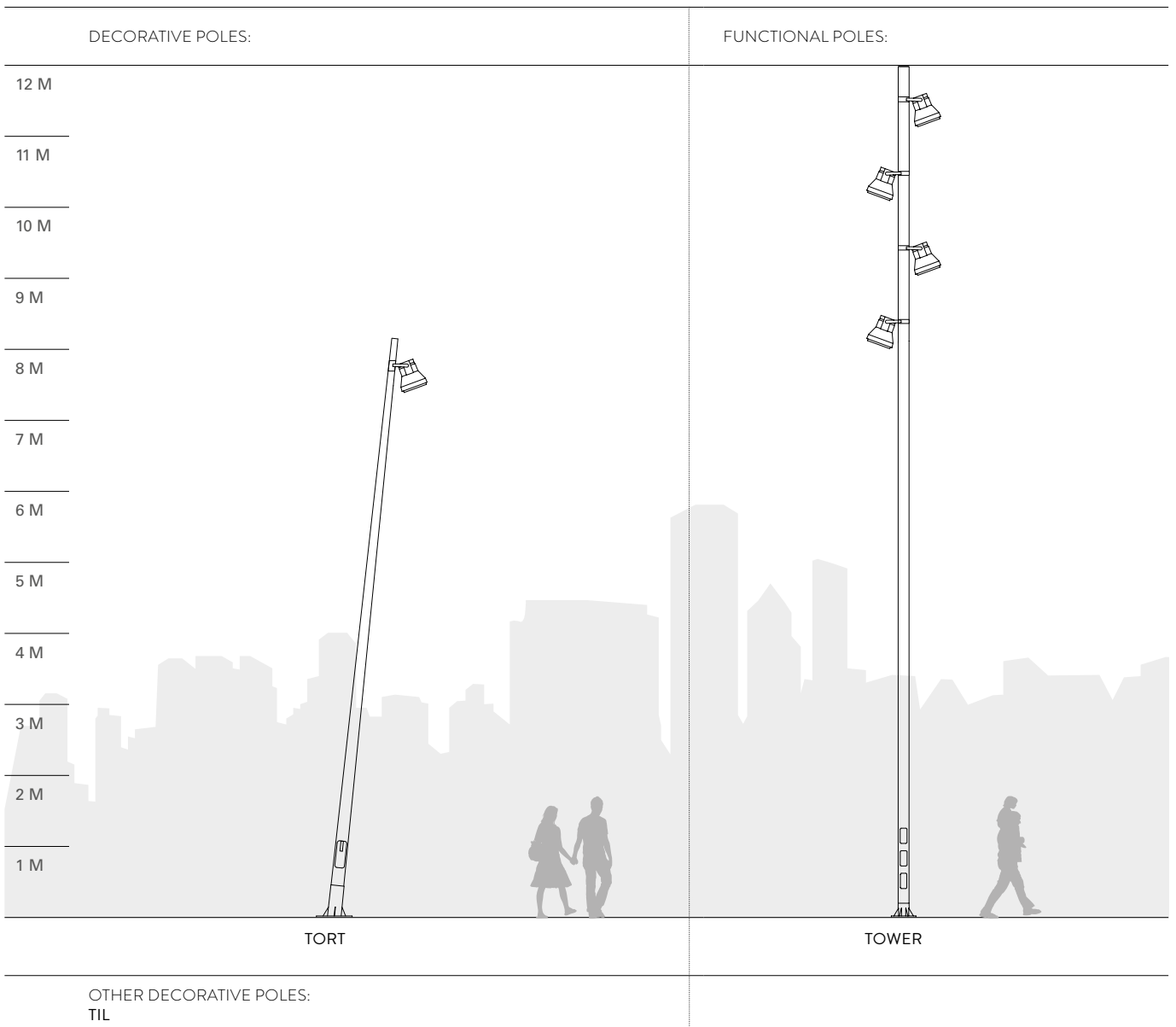
Temp.	-20 °C ... +35 °C
Dimming**	DMX _Dimming through DMX input protocol
	Luminaires supplied by electrical grid
Supply voltage	220-240V AC
Frequency	50 / 60 Hz
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)
Power factor (cos φ at max. charge)	≥0.95
Luminaire electrical protection	Class I
Power according to models***	36 LEDs
Supply current	
HIGH EFFICIENCY	-
HIGH BALANCE	54 W
HIGH FLUX	73 W
VERY HIGH FLUX	-



CONFIGURE YOUR FOGO RGB LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
FOGSXF										Simon FOGO Istanium® LED, size S, bracket fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser
		0								Without installation wire (0 m)
			CME							E Type Medium Tapered Optics
			CMM							M Type Medium Tapered Optics
				RGB						Red, Green, Blue
					_54W530					54 W 530 mA - 36 LEDs
					_73W700					73 W 700 mA - 36 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
							DMX_			Dimming through DMX input protocol
								C1		Class 1 Luminaire electrical protection
									GYTECH	Standard finish in Simon Technical Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL classic chart colours

COMBINE YOUR FOGO LUMINAIRE:



The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes



SPOTLIGHT



FOGO RGB



SPOTLIGHT

DEMON





DEMON

ISTANIUM^{LED}®

Functional spotlight, ideal
for the intensive introduction
of LED technology



Main roads



Industrial spaces



Parking areas



Green trails



Streets



Pedestrian streets



Commercial areas



Parks / Gardens



Squares



Urban cycle paths



Roundabouts / Intersections



Zebra crossings



Tunnels



Underpasses



Monuments



Bridges



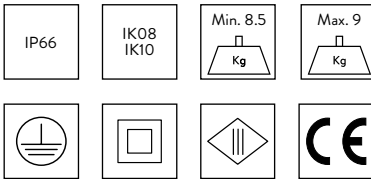
Façades



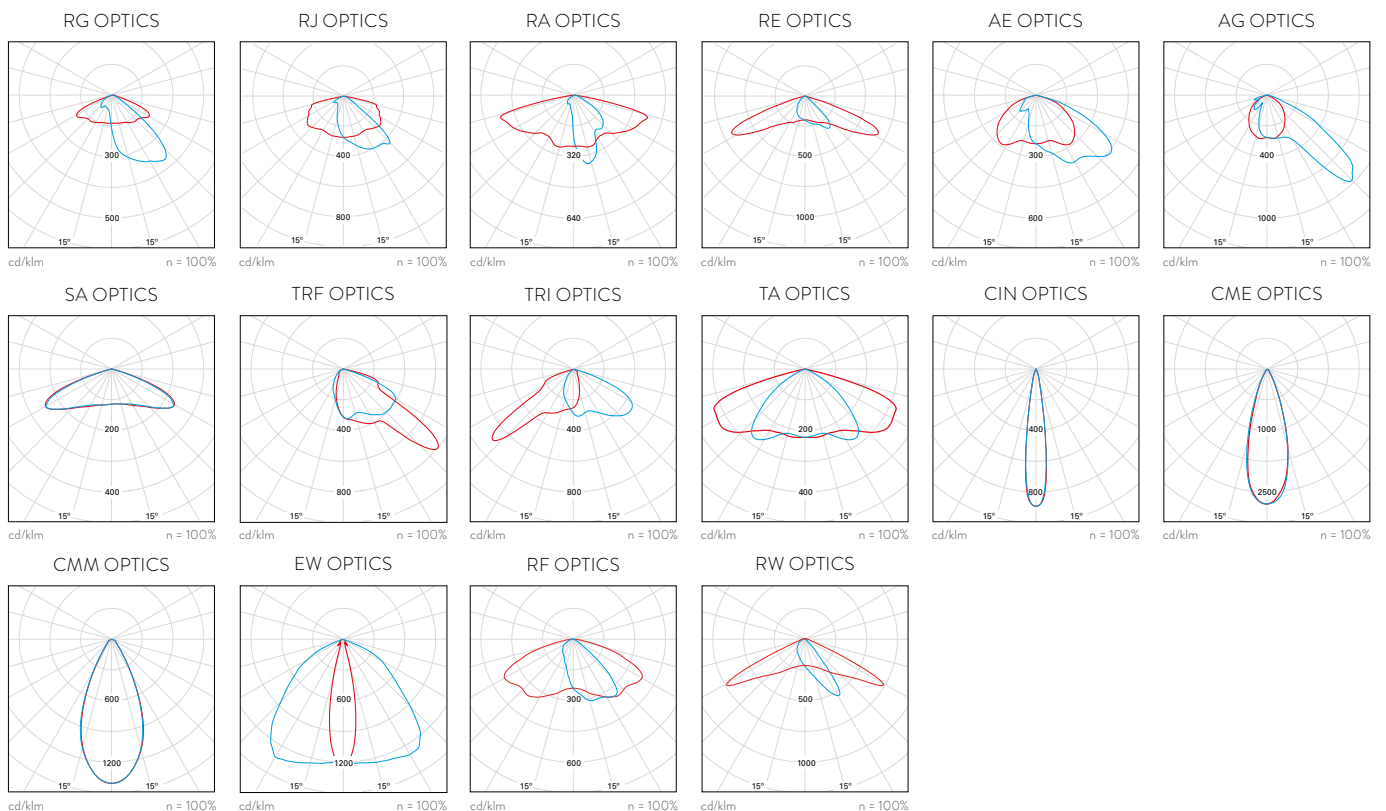
DEMON

ISTANIUM^{LED}®

SPOTLIGHT LED LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)**
 LED DURATION (L90 B10 AT $T_a=25^\circ\text{C}$ AND $T_j=95^\circ\text{C}$): 100,000 h



— C0 - C180 — C90 - C270

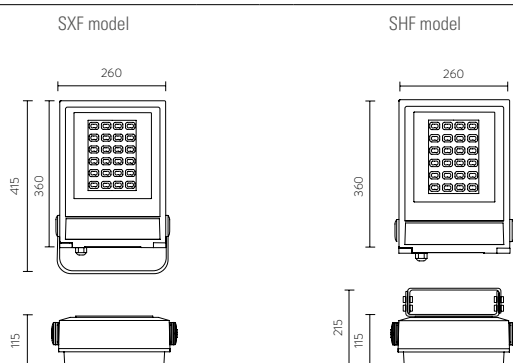
Check other photometric distributions



* Upon request

** Orientation between 0° and 5°

Simon **DEMON LED** spotlight, size **S**, made of die-cast aluminium. Back bracket fastening or suspended bracket fastening. Flat cover. Internal refrigeration system through fins. Access to gear and maintenance from the front with four-screw opening. Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection rating for full spotlight and **IK08** impact resistance rating, or **IK10** with protective grille accessory. Possibility of mounting up to seventeen multi-array optics. Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas. LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1% with an angle of 0° to ± 5°. With **Class I** and **Class II** electronic control gear with 230 V_{AC} / 50 Hz supply voltage and Class III with 12 / 24V DC supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA. Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V input, DALI or MOV movement detector. Optional custom programming and maintenance of constant light output (CLO). Standard finish in Simon GYTECH colour and bracket trim in Simon BKTECH colour. Possibility of Simon and RAL chart finishes. Dimensions 260x415x115 mm for back bracket model and 260x360x215 mm for suspended bracket model.

DIMENSIONS AND FASTENING SYSTEMS



Fastening	Bracket, Ø11 mm, Ø13 mm, Ø11 mm fastening holes
Wire inlet	Compression seal fittings Pg 13.5 (M20)
Distance of illuminated objects	1 m
Surface exposed to the wind	 0.041 m ²  0.110 m ²
Weight	Max. 9 kg Min. 8.5 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08 IK10 (with protective grille)
Body	Die-cast aluminium
Closure system	With stainless steel screws
Fastening system	Galvanised steel sheet
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
Bracket	SXF: Same colour as body SHF: Anodised aluminium
Bracket trim	BKTECH

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C		
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol MOV Movement detector		
	Luminaires supplied by electrical grid	Luminaires supplied by sunlight	
Supply voltage	220-240V AC	12/24V DC	
Frequency	50 / 60 Hz	-	
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)	-	
Power factor (cos φ at max. charge)	≥0.95	-	
Luminaire electrical protection	Class I or Class II	Class III	
Power according to models***	12 LEDs	24 LEDs	36 LEDs
Supply current	1mod.	2mod.	3mod.
HIGH EFFICIENCY	12 W	24 W	35 W
HIGH BALANCE	18 W	36 W	54 W
HIGH FLUX	24 W	49 W	73 W
VERY HIGH FLUX	-	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-5 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%



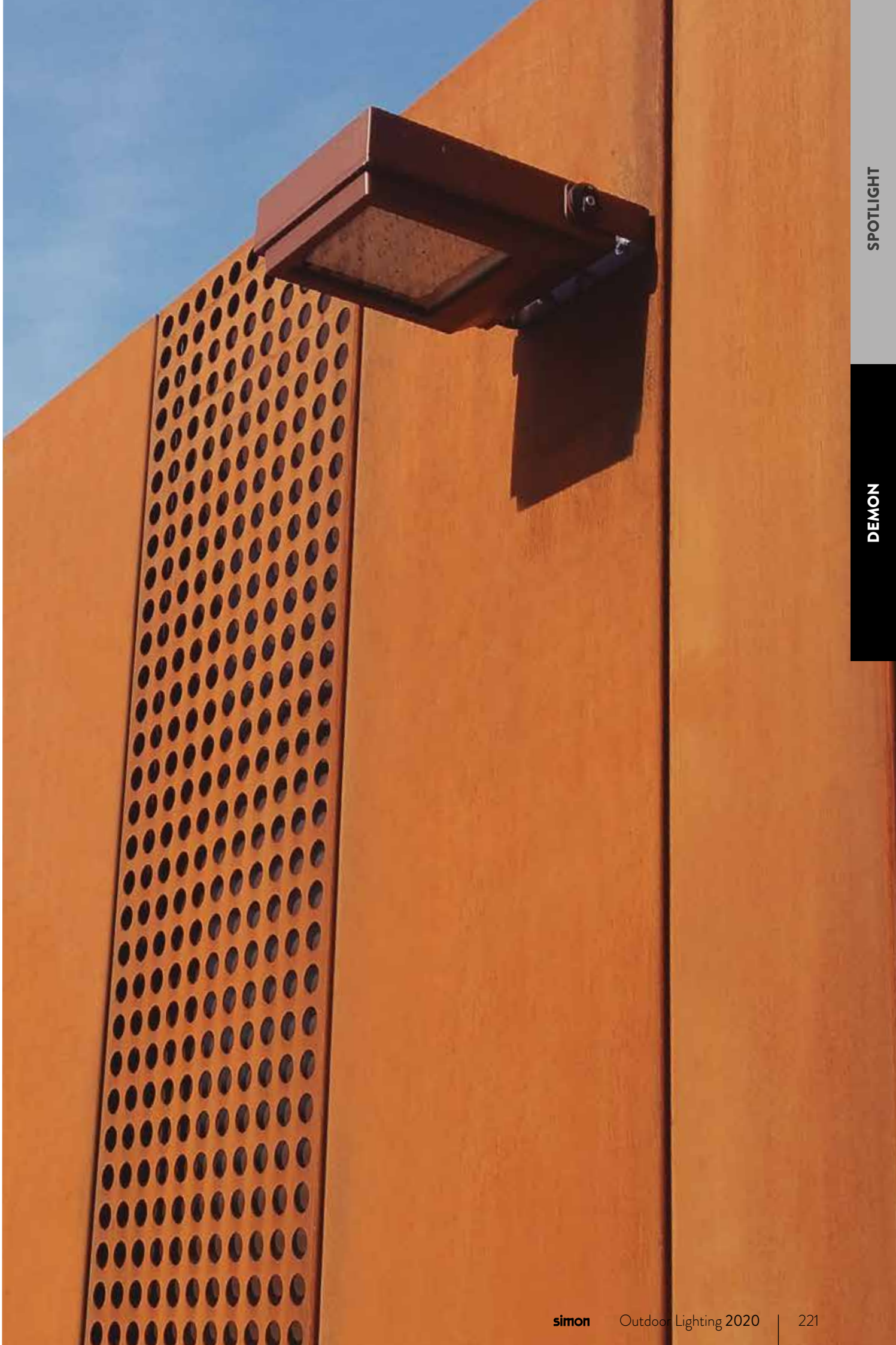
CONFIGURE YOUR DEMON LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
DEMSXF										Simon DEMON Istanium® LED, size S, bracket fastening, flat cover
DEMSHF										Simon DEMON Istanium® LED, size S, suspended bracket fastening, flat cover
GTF										Flat transparent shatter-proof tempered glass diffuser
	0									Without installation wire (0 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			AE_							E Type Asymmetric Optics
			AG_							G Type Asymmetric Optics
			SA_							A Type Symmetric Optics
			TRF							Traffic Optics
			TRI							Reverse Traffic Optics
			TA_							Overhead Tunnel Optics
			CIN							Intensive Tapered Optics
			CME							E Type Medium Tapered Optics
			CMM							M Type Medium Tapered Optics
			EW_							Wide Elliptical Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
			<input type="radio"/> NDL							Neutral daylight - 4,000 K
			<input type="radio"/> WDL							Warm daylight – 3,000 K
			<input checked="" type="radio"/> SDL							Soft daylight - 2,700 K
					_12W350					12 W 350 mA
					_24W700					24 W 700 mA
					_36W530					36 W 530 mA
					_49W700					49 W 700 mA
					_54W530					54 W 530 mA
					_73W700					73 W 700 mA
										1,760 lm @ 4,000 K
										3,360 lm @ 4,000 K
										4,960 lm @ 4,000 K
										6,330 lm @ 4,000 K
										7,390 lm @ 4,000 K
										9,300 lm @ 4,000 K
										12 LEDs
										12 LEDs
										24 LEDs
										24 LEDs
										36 LEDs
										36 LEDs
										Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
										Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
										Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming
										Dimming without control line (self-dimming)
										Dimming with control line
										Without dimming (on/off)
										Cabinet amplitude dimming (electrical box dimmer)
										Dimming through 1.10 V input protocol
										Dimming through DALI input protocol
										Movement detector
										Class 1 Luminaire electrical protection
										Class 2 Luminaire electrical protection
										Class 3 (DC exclusive)
										GYTECH
										Standard finish in Simon Technical Grey
										***** Finish in Simon colours (see page 514)
										***** Finish in RAL classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	DEMSXFGTFORJ_NDL_12W350IA23_1N_C1GYTECH	405-000380012
24 W	12	700 mA	DEMSXFGTFORJ_NDL_24W700IA23_1N_C1GYTECH	405-000378012
36 W	24	530 mA	DEMSXFGTFORJ_NDL_36W530IA23_1N_C1GYTECH	405-000219012
49 W	24	700 mA	DEMSXFGTFORJ_NDL_49W700IA23_1N_C1GYTECH	405-000186012
54 W	36	530 mA	DEMSXFGTFORJ_NDL_54W530IA23_1N_C1GYTECH	405-000375012
73 W	36	700 mA	DEMSXFGTFORJ_NDL_73W700IA23_1N_C1GYTECH	405-000371012

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



COMBINE YOUR DEMON LUMINAIRE WITH:

CUSTOM SOLUTIONS:

7 M

6 M

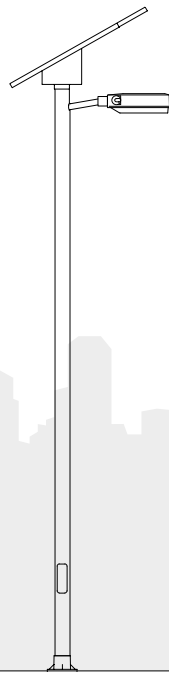
5 M

4 M

3 M

2 M

1 M

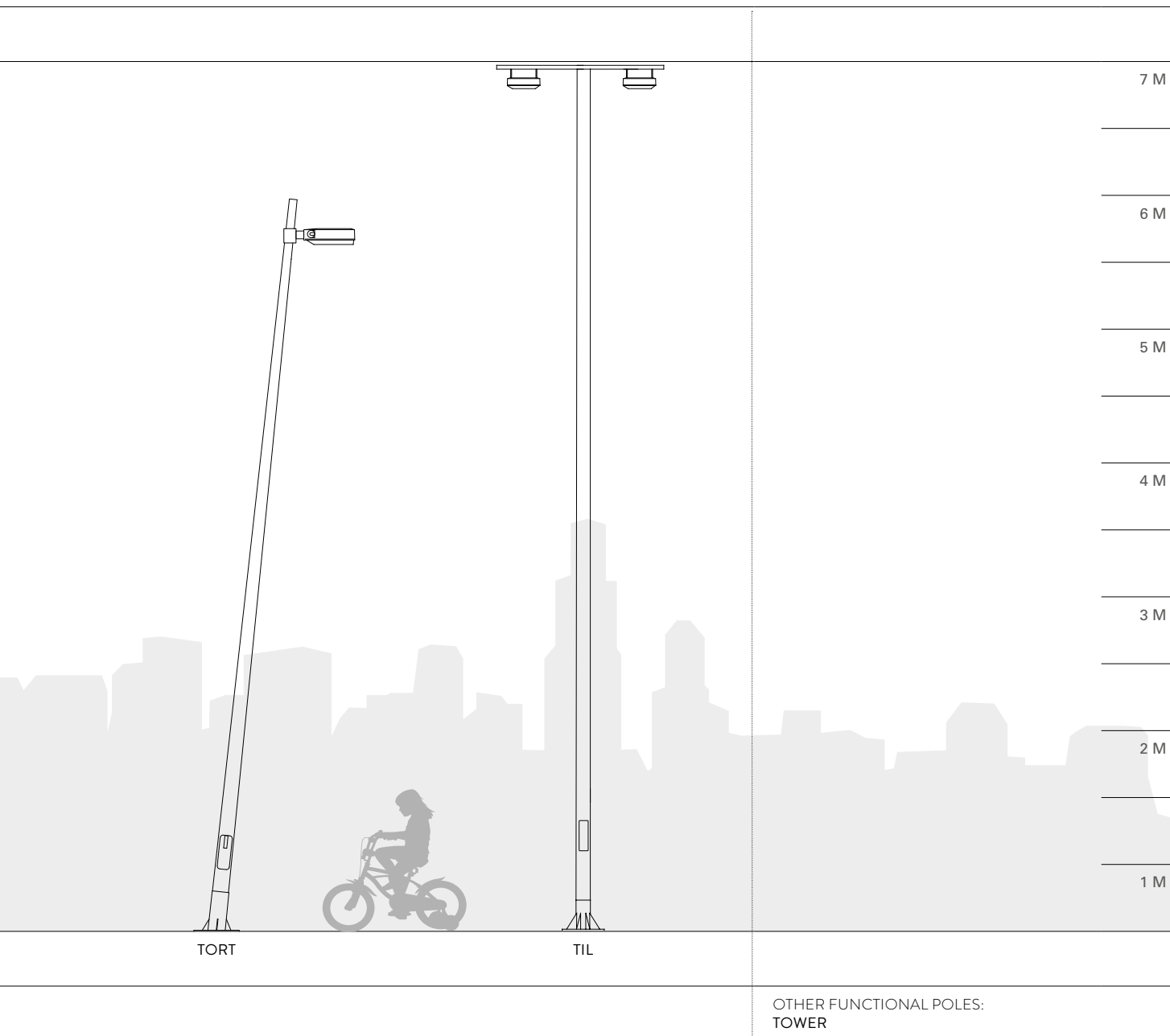


MAGNOLIA



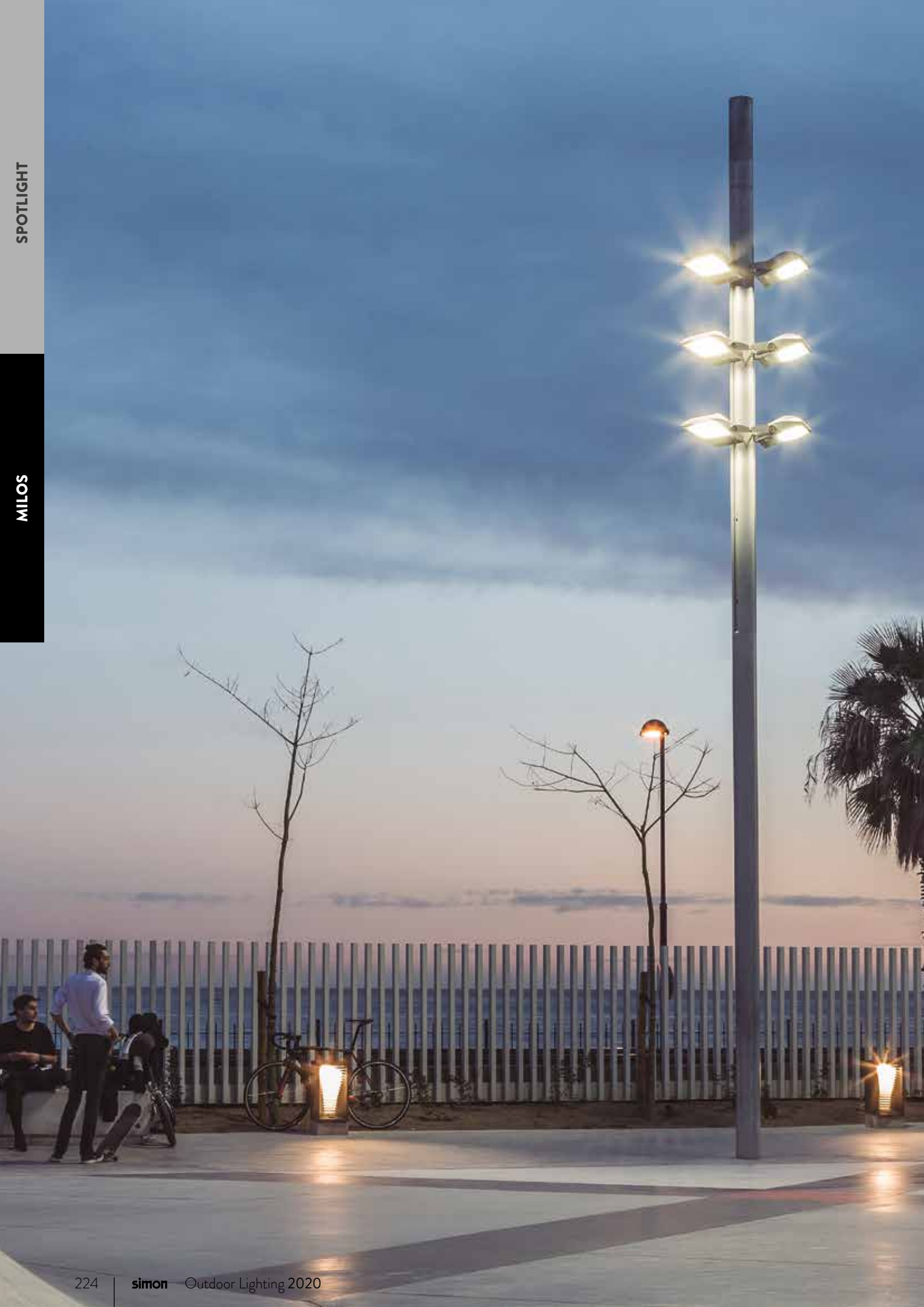
TRAFIC
DEMON

OTHER CUSTOM SOLUTIONS:
CEDRUS



ACCESSORIES / REPLACEMENTS

	Description	Finish	Order code
	Simple arm for flush DEMON SXF spotlight	Galvanised	5-531830
		GYTECH	5-531830-012
		GYDECO	5-531830-013
	Simple arm for DEMON SXF spotlight, 200 mm length	Galvanised	5-531838
		GYTECH	5-531838-012
		GYDECO	5-531838-013
	Double arm for DEMON SXF spotlight, 200 mm length	Galvanised	5-531839
		GYTECH	5-531839-012
		GYDECO	5-531839-013
	IK10 anti-vandalism protective grille	GY9006	50-74603





MILOS

S / M

ISTANIUM^{LED}®

Ideal functional spotlight for
the intensive introduction
of LED technology



Main roads
S / M



Industrial spaces
S / M



Parking areas
S / M



Green trails
S / M



Avenues
M



Streets
S / M



Pedestrian streets
S / M



Commercial areas
S / M



Parks / Gardens
S / M



Squares
S / M



Urban cycle paths
S / M



Roundabouts / Intersections
S / M



Zebra crossings
M



Tunnels
S / M



Underpasses
M



Monuments
S / M



Bridges
S / M



Façades
S / M



Sports facilities
M



Large areas
M



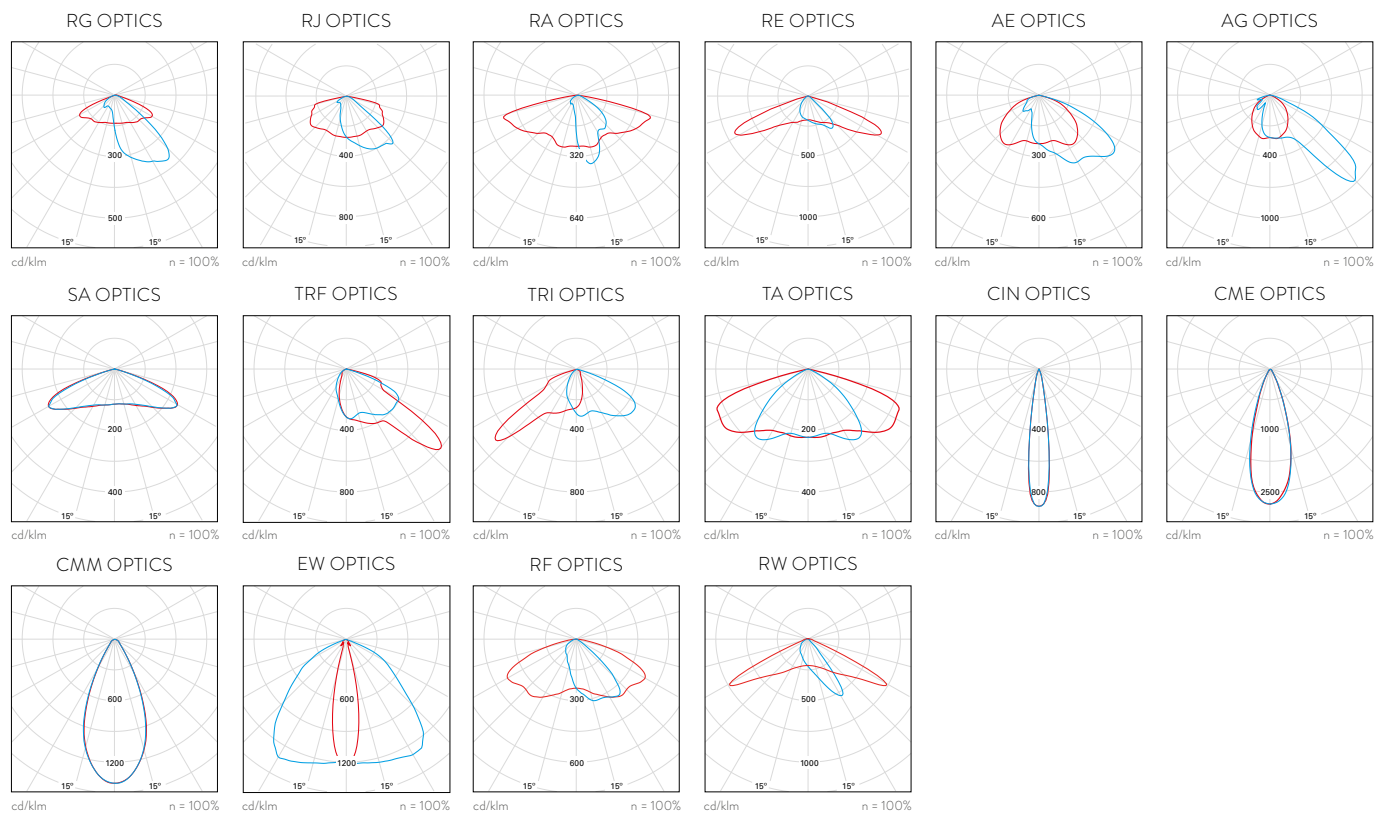
MILOS S

ISTANIUM^{LED}

SPOTLIGHT LED LUMINAIRE

IP66	IK08	Min. 5.7 Kg	Max. 6.2 Kg

COLOUR TEMP.: ND L 4000 K | WDL 3000 K | SDL 2700 K* | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)**
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

** Orientation between 0° and 5°

Simon **MILOS LED** luminaire, size **S**, made of die-cast aluminium. Bracket fastening.

Flat cover. Internal refrigeration system through fins. Access to gear and maintenance from the bottom with front lever opening, without tools.

Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection rating for the Istanium LED optical group and **IK08** impact resistance rating.

Possibility of mounting up to seventeen multi-array optics, to guarantee the homogeneity of the photometry.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

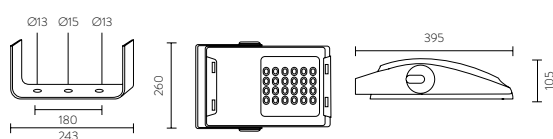
LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.



With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage and **Class III** with 12 / 24V DC supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYTECH colour. Possibility of Simon and RAL chart finishes. Dimensions 260x395x105 mm.

DIMENSIONS AND FASTENING SYSTEMS



Fastening	Bracket, Ø13 mm, Ø15 mm, Ø13 mm fastening holes
Wire inlet	Compression seal fittings Pg 13.5 (M20)
Distance of illuminated objects	1 m
Surface exposed to the wind	 0.03 m ²  0.08 m ²
Weight	Max. 6.2 kg Min. 5.7 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08
Body	Die-cast aluminium
Closure system	Painted die-cast aluminium lever
Fastening system	Painted galvanised sheet steel
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
Closure	Dark Grey

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-5 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol

	Luminaires supplied by electrical grid	Luminaires supplied by sunlight
Supply voltage	220-240V AC	12/24V DC
Frequency	50 / 60 Hz	-
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)	-
Power factor (cos φ at max. charge)	≥0.95	-
Luminaire electrical protection	Class I or Class II	Class III
Power according to models***	12 LEDs	24 LEDs
Supply current	1mod.	2mod.
HIGH EFFICIENCY	12 W	24 W
HIGH BALANCE	18 W	36 W
HIGH FLUX	24 W	49 W
VERY HIGH FLUX	-	-



CONFIGURE YOUR MILOS S LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
MILSXF										Simon MILOS Istanium® LED, size S, bracket fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser
		0								Without installation wire (0 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			AE_							E Type Asymmetric Optics
			AG_							G Type Asymmetric Optics
			SA_							A Type Symmetric Optics
			TRF							Traffic Optics
			TRI							Reverse Traffic Optics
			TA_							Overhead Tunnel Optics
			CIN							Intensive Tapered Optics
			CME							E Type Medium Tapered Optics
			CMM							M Type Medium Tapered Optics
			EW_							Wide Elliptical Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
				<input type="radio"/> NDL						Neutral daylight - 4,000 K
				<input type="radio"/> WDL						Warm daylight – 3,000 K
				<input checked="" type="radio"/> SDL						Soft daylight - 2,700 K
					_12W350					12 W 350 mA
					_24W700					24 W 700 mA
					_36W530					36 W 530 mA
					_49W700					49 W 700 mA
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
						IA12_				Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming
						2N_				Dimming without control line (self-dimming)
						2N+				Dimming with control line
						1N_				Without dimming (on/off)
						CAD_				Cabinet amplitude dimming (electrical box dimmer)
						1-10				Dimming through 1.10 V input protocol
						DALI				Dimming through DALI input protocol
						C1				Class 1 Luminaire electrical protection
						C2				Class 2 Luminaire electrical protection
						C3				Class 3 (DC exclusive)
									GYTECH	Standard finish in Simon Technical Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	MILSXFGTFORJ_NDL_12W350IA23_1N__C1GYTECH	406-000380012
24 W	12	700 mA	MILSXFGTFORJ_NDL_24W700IA23_1N__C1GYTECH	406-000378012
36 W	24	530 mA	MILSXFGTFORJ_NDL_36W530IA23_1N__C1GYTECH	406-000219012
49 W	24	700 mA	MILSXFGTFORJ_NDL_49W700IA23_1N__C1GYTECH	406-000186012

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



COMBINE YOUR MILOS S LUMINAIRE WITH:

CUSTOM SOLUTIONS:

6 M

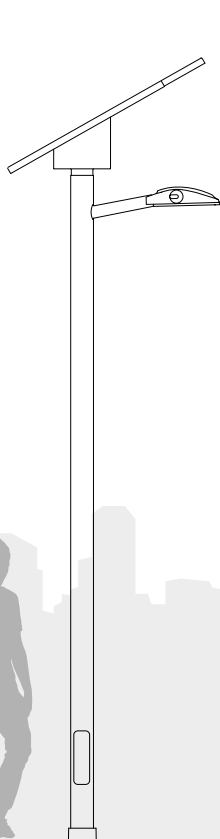
5 M

4 M

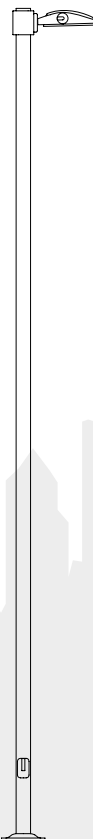
3 M

2 M

1 M

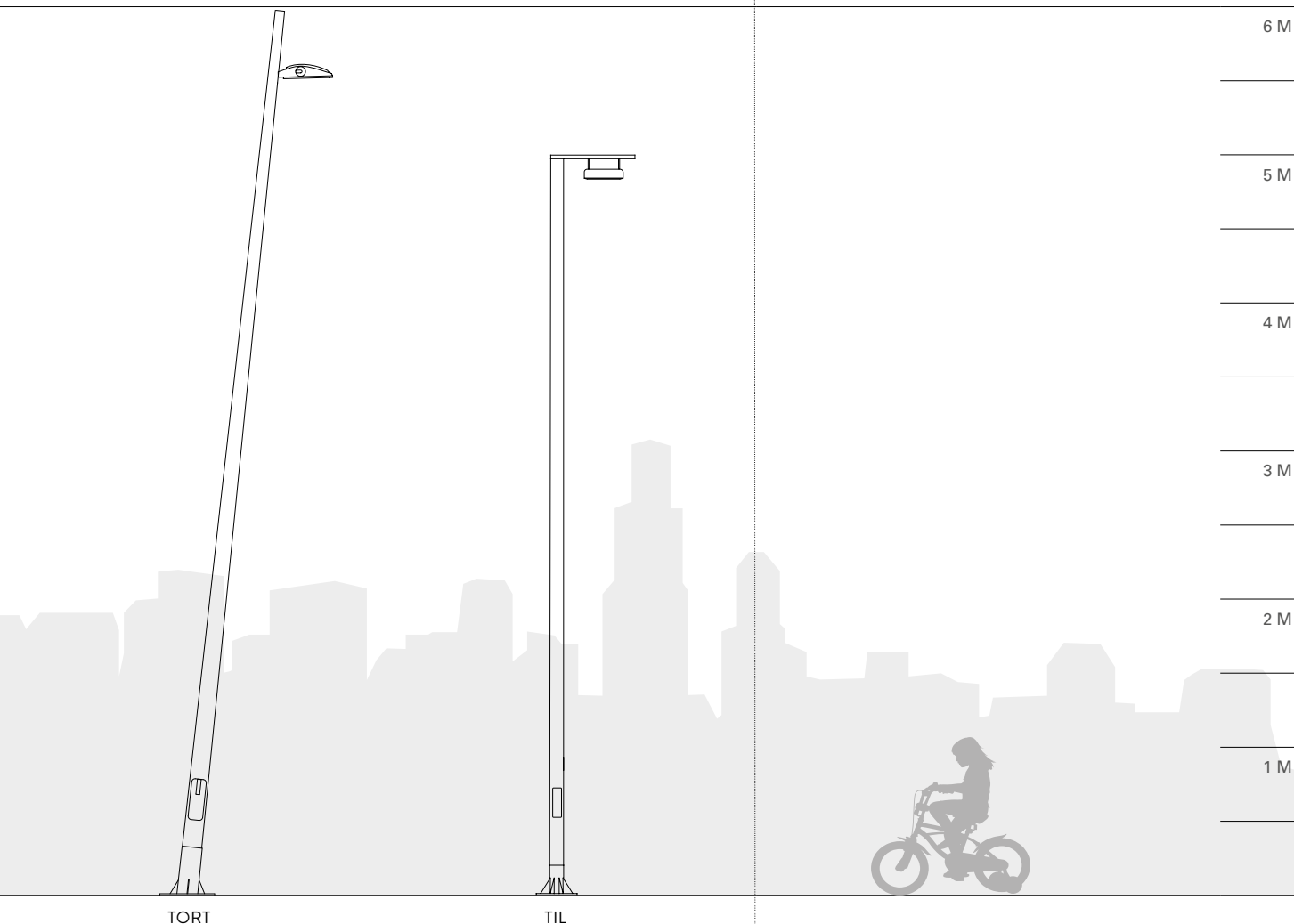


MAGNOLIA



TRAFIC
MILOS S

OTHER CUSTOM SOLUTIONS:
CEDRUS




TORT

TIL

OTHER FUNCTIONAL POLES:
TOWER

ACCESSORIES / REPLACEMENTS

	Description	Finish	Order code
	Simple arm for flush spotlight	Galvanised GYTECH GYDECO	5-531830 5-531830-012 5-531830-013
	Simple arm for spotlight, 200 mm length	Galvanised GYTECH GYDECO	5-531838 5-531838-012 5-531838-013
	Double arm for spotlight, 200 mm length	Galvanised GYTECH GYDECO	5-531839 5-531839-012 5-531839-013
	Flat transparent glass (GTF) replacement. Milos S model up to 24 LEDs 54W		50-73321

OTHER LUMINAIRES IN THE COLLECTION



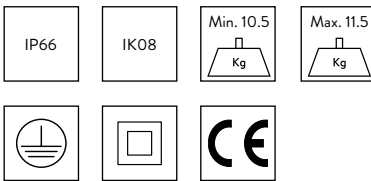
MILOS M



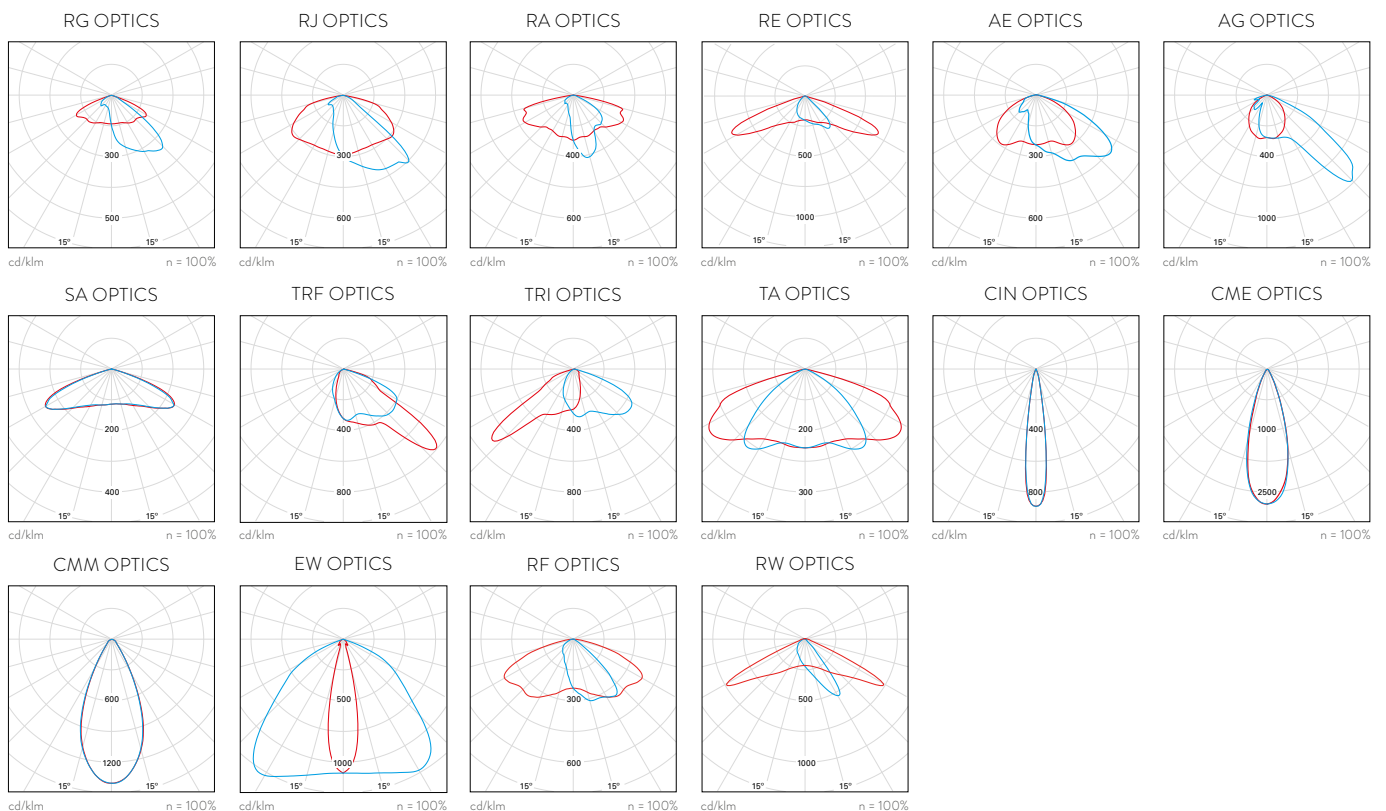
MILOS M

ISTANIUM^{LED}®

SPOTLIGHT LED LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)**
 LED DURATION (L90 B10 AT $T_a=25\text{ °C}$ AND $T_j=95\text{ °C}$): 100,000^h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

** Orientation between 0° and 5°

Simon **MILOS LED** luminaire, size **M**, made of die - cast aluminium. Bracket fastening.

Flat cover. Internal refrigeration system through fins. Access to gear and maintenance from the bottom with front lever opening, without tools.

Easy - clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection rating for the Istanium LED optical group and **IK08** impact resistance rating.

Possibility of mounting up to seventeen multi - array optics, to guarantee the homogeneity of the photometry.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

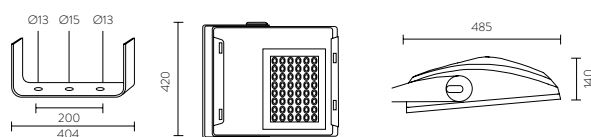
LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYTECH colour. Possibility of Simon and RAL chart finishes. Dimensions 420x485x140 mm.

DIMENSIONS AND FASTENING SYSTEMS



Fastening	Bracket, Ø13 mm, Ø15 mm, Ø13 mm fastening holes
Wire inlet	Compression seal fittings Pg 13.5 (M20)
Distance of illuminated objects	1 m
Surface exposed to the wind	0.05 m ² 0.17 m ²
Weight	Max. 11.5 kg Min. 10.5 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08
Body	Die-cast aluminium
Closure system	Painted die-cast aluminium lever
Fastening system	Painted galvanised sheet steel
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
Bracket trim	Dark Grey

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-5 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol
	Luminaires supplied by electrical grid
Supply voltage	220-240V AC
Frequency	50 / 60 Hz
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)
Power factor (cos φ at max. charge)	≥0.95
Luminaire electrical protection	Class I or Class II
Power according to models***	12 LEDs 24 LEDs 36 LEDs 48 LEDs 60 LEDs 72 LEDs
Supply current	1mod. 2mod. 3mod. 4mod. 5mod. 6mod.
HIGH EFFICIENCY	12 W 24 W 35 W 47 W 59 W 71 W
HIGH BALANCE	18 W 36 W 54 W 73 W 91 W 109 W
HIGH FLUX	24 W 49 W 73 W - - -
VERY HIGH FLUX	- - - - -



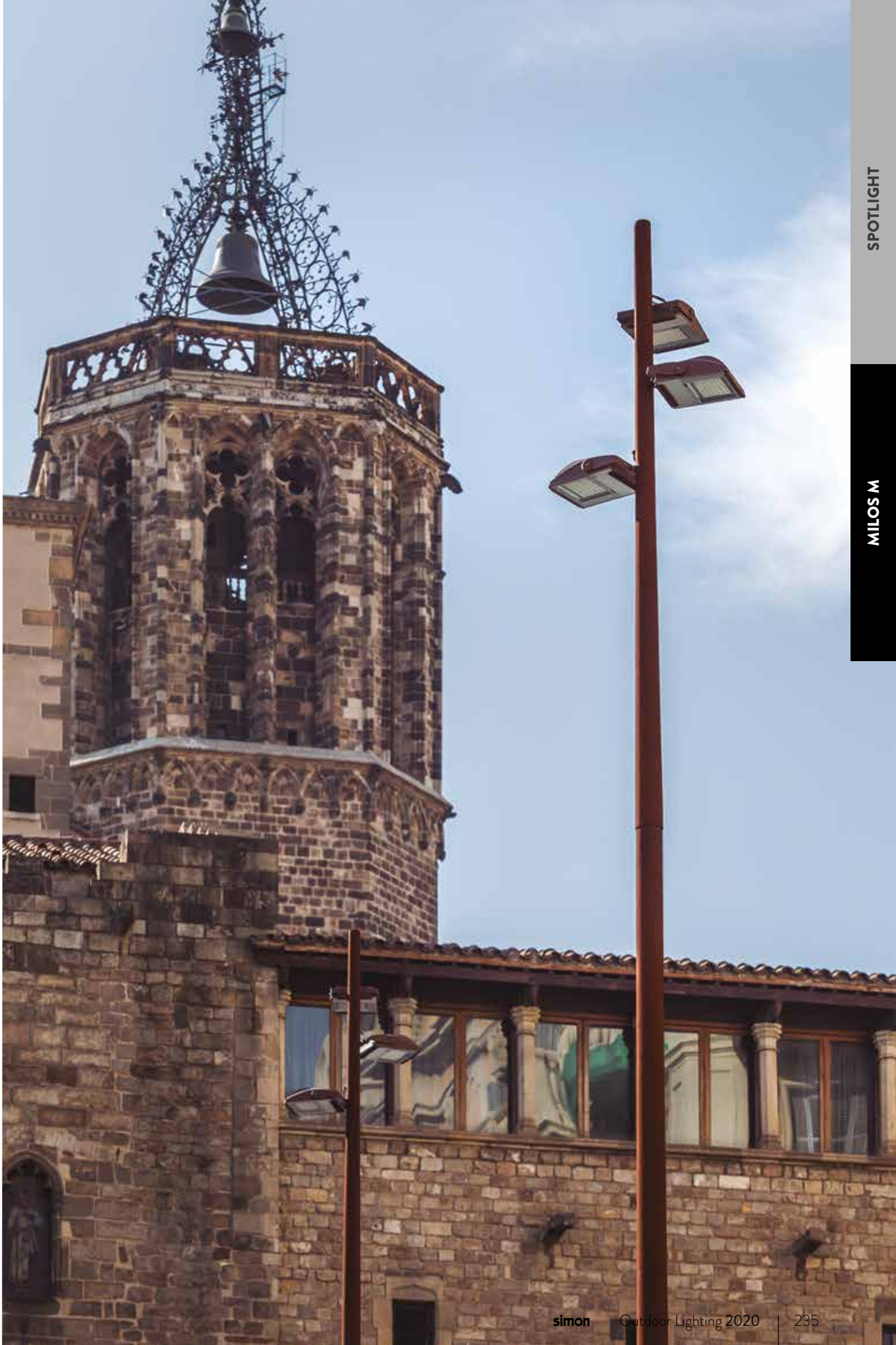
CONFIGURE YOUR MILOS M LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
MILMXF										Simon MILOS Istanium® LED, size M, bracket fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser
		0								Without installation wire (0 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			AE_							E Type Asymmetric Optics
			AG_							G Type Asymmetric Optics
			SA_							A Type Symmetric Optics
			TRF							Traffic Optics
			TRI							Reverse Traffic Optics
			TA_							Overhead Tunnel Optics
			CIN							Intensive Tapered Optics
			CME							E Type Medium Tapered Optics
			CMM							M Type Medium Tapered Optics
			EW_							Wide Elliptical Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
				<input type="radio"/> NDL						Neutral daylight - 4,000 K
				<input type="radio"/> WDL						Warm daylight – 3,000 K
				<input type="radio"/> SDL						Soft daylight - 2,700 K
					_54W530					54 W 530 mA 7,390 lm @ 4,000 K 36 LEDs
					_73W700					73 W 700 mA 9,300 lm @ 4,000 K 36 LEDs
					_91W530					91 W 530 mA 12,340 lm @ 4,000 K 60 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
							2N_			Dimming without control line (self-dimming)
							2N+			Dimming with control line
							1N_			Without dimming (on/off)
							CAD_			Cabinet amplitude dimming (electrical box dimmer)
							1-10			Dimming through 1.10 V input protocol
							DALI			Dimming through DALI input protocol
								C1		Class 1 Luminaire electrical protection
								C2		Class 2 Luminaire electrical protection
									GYTECH	Standard finish in Simon Technical Grey
									*****	Finish in Simon colours (see page 514)
									*****	Finish in RAL classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
54 W	36	530 mA	MILMXFGTFORJ_NDL_54W530IA23_1N_C1GYTECH	407-000375012
73 W	36	700 mA	MILMXFGTFORJ_NDL_73W700IA23_1N_C1GYTECH	407-000371012
91 W	60	530 mA	MILMXFGTFORJ_NDL_91W530IA23_1N_C1GYTECH	407-000369012

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



COMBINE YOUR MILOS M LUMINAIRE WITH:

CUSTOM SOLUTIONS:

DECORATIVE POLES:

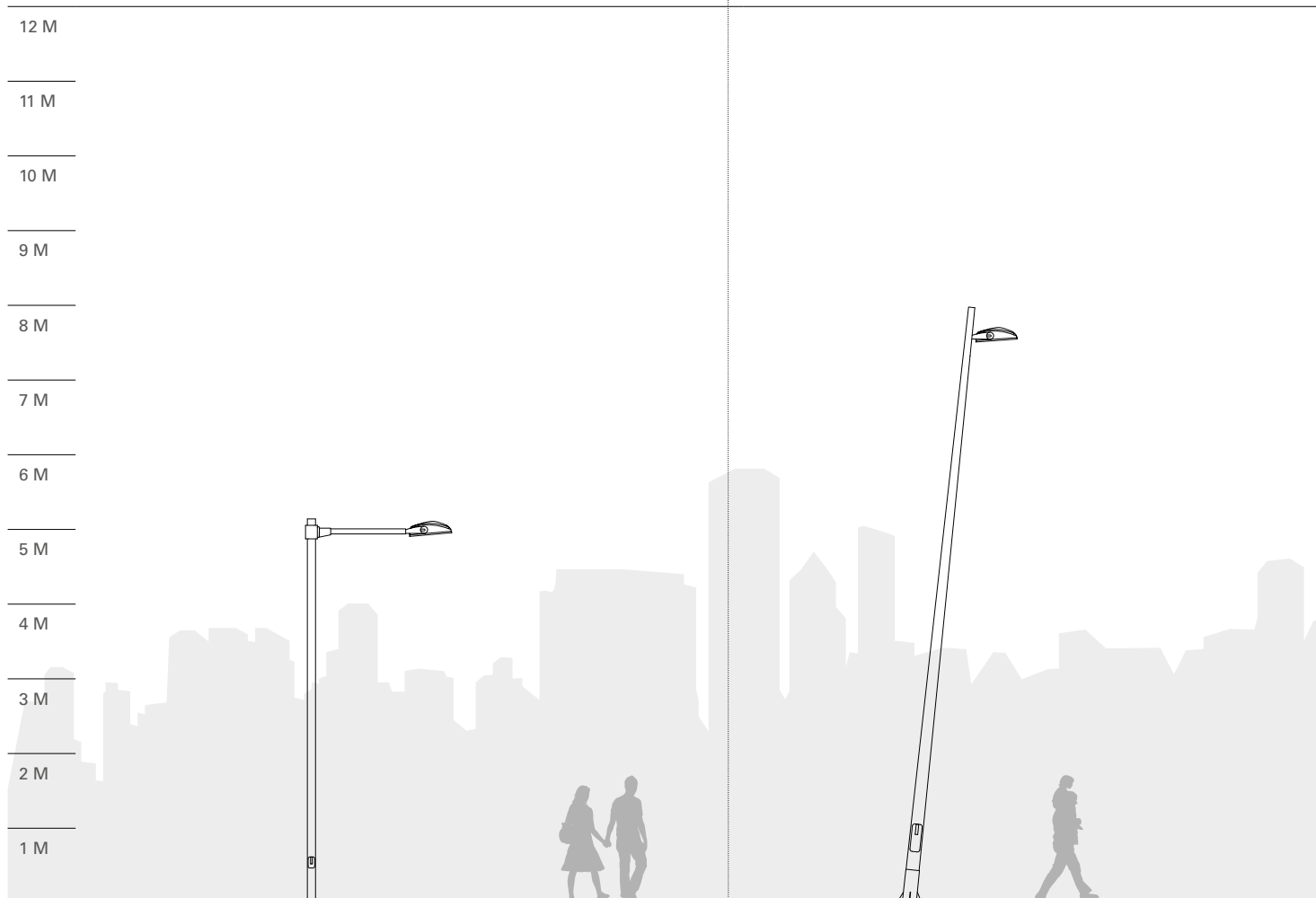
- 12 M
- 11 M
- 10 M
- 9 M
- 8 M
- 7 M
- 6 M
- 5 M
- 4 M
- 3 M
- 2 M
- 1 M

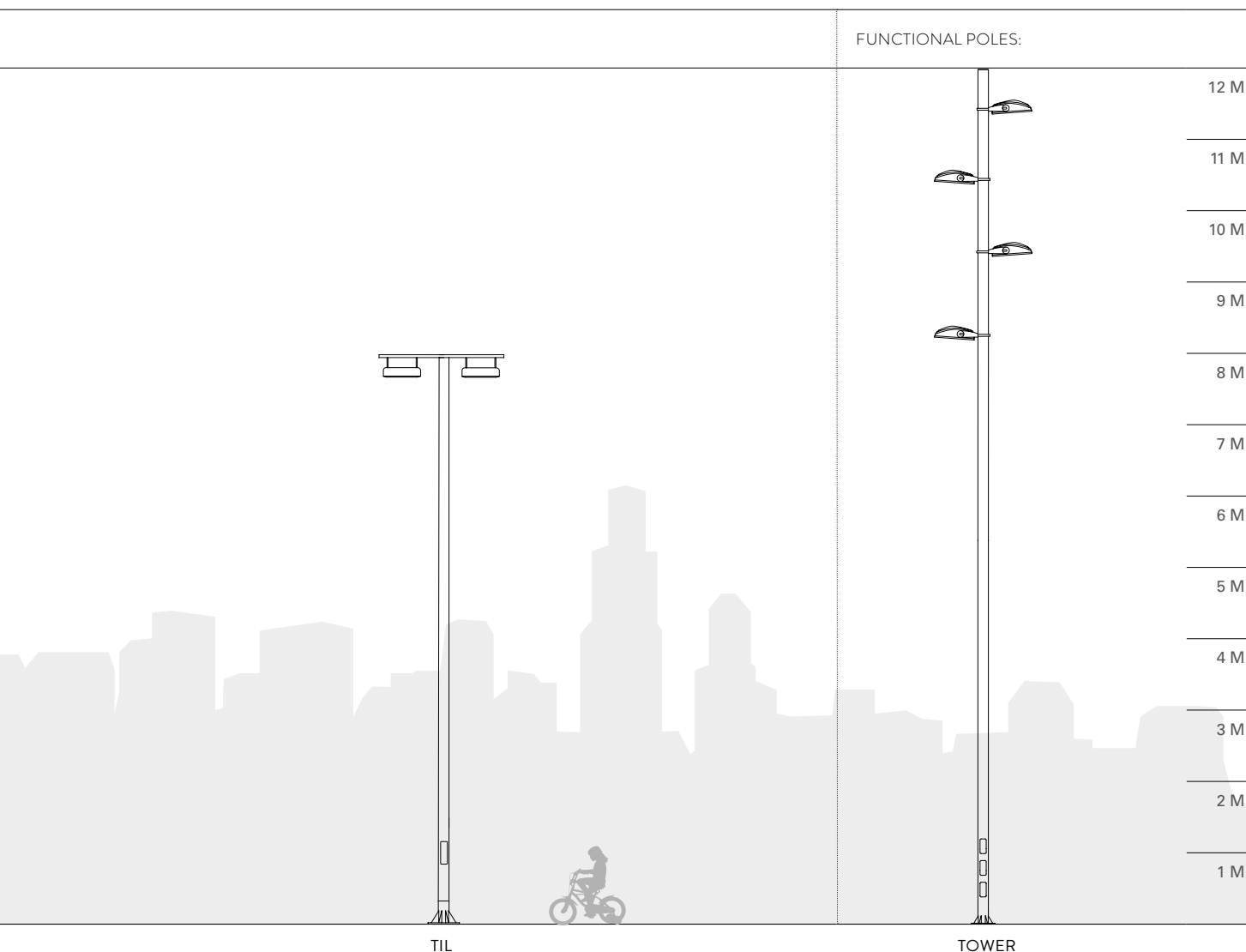
TRAFIC MILOS

TORT

SPOTLIGHT

MILOS M





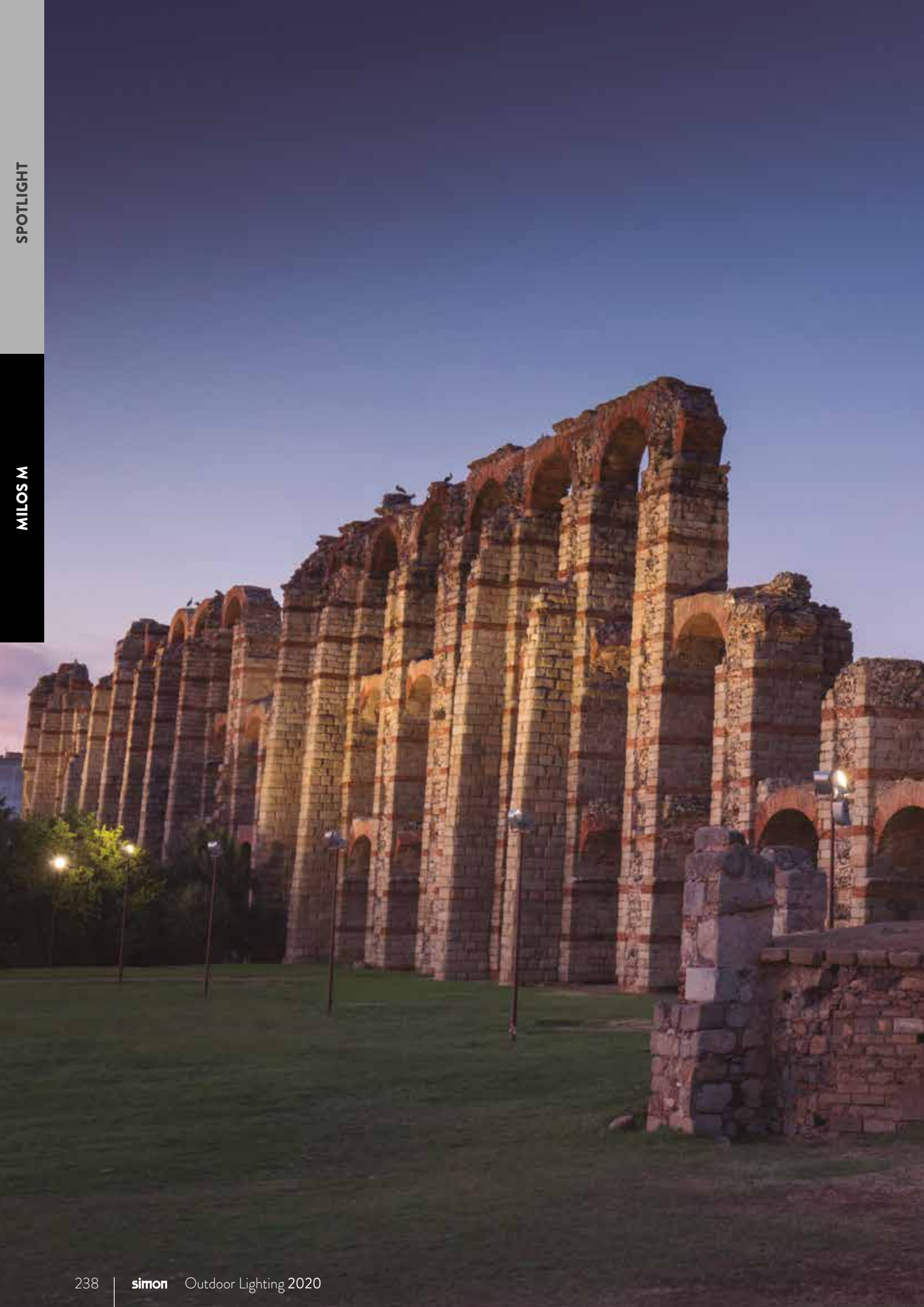
ACCESSORIES / REPLACEMENTS

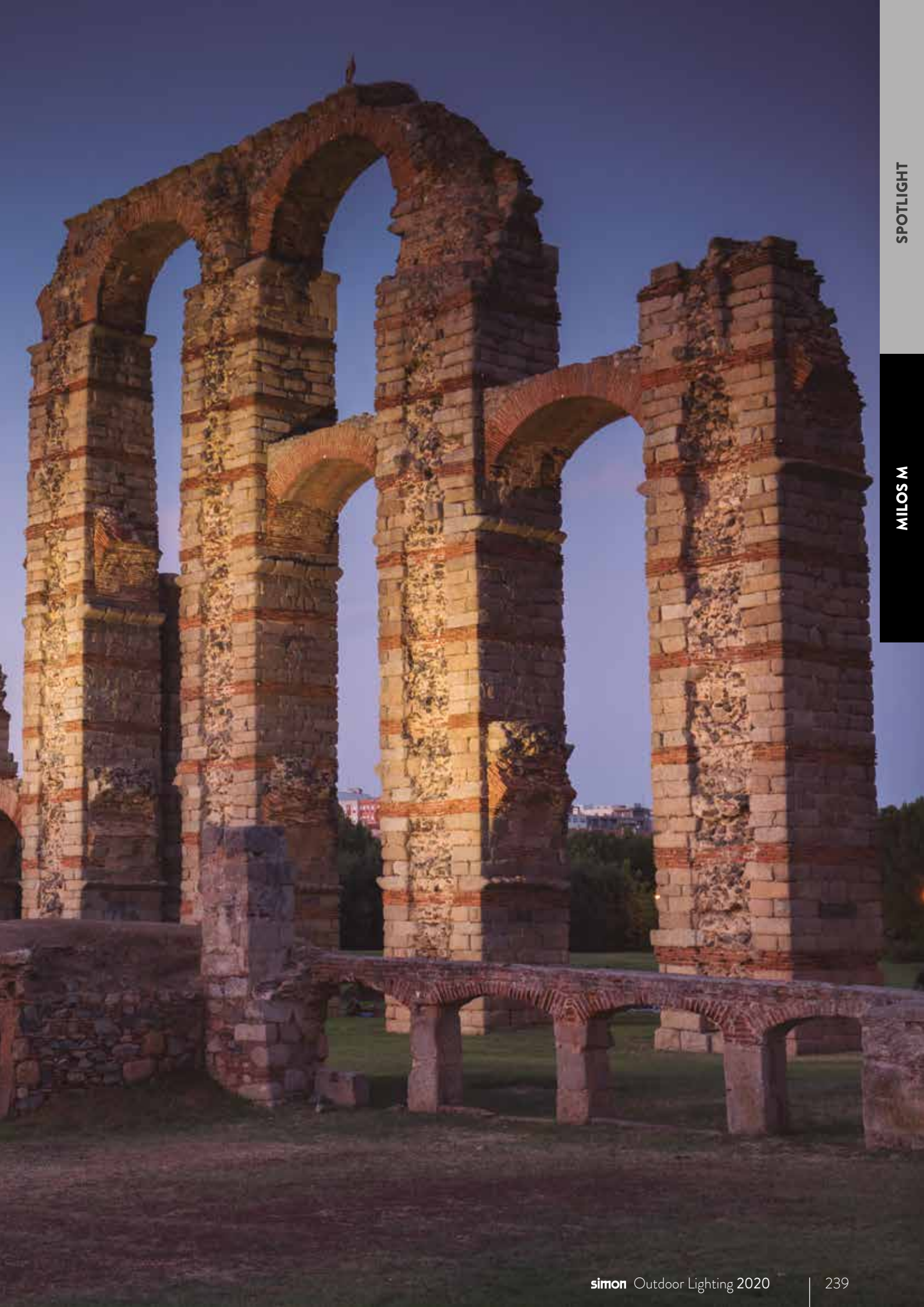
Description	Order code
Simple arm for spotlight, 150 mm length, fastening to Ø60 mm pole. Galvanised finish	5-531857
Double arm for spotlight, 150 mm length, fastening to Ø60 mm pole. Galvanised finish	5-531858
Flat transparent glass (GTF) replacement. Milos M model up to 60 LEDs 96 W	50-73293

OTHER LUMINAIRES IN THE COLLECTION



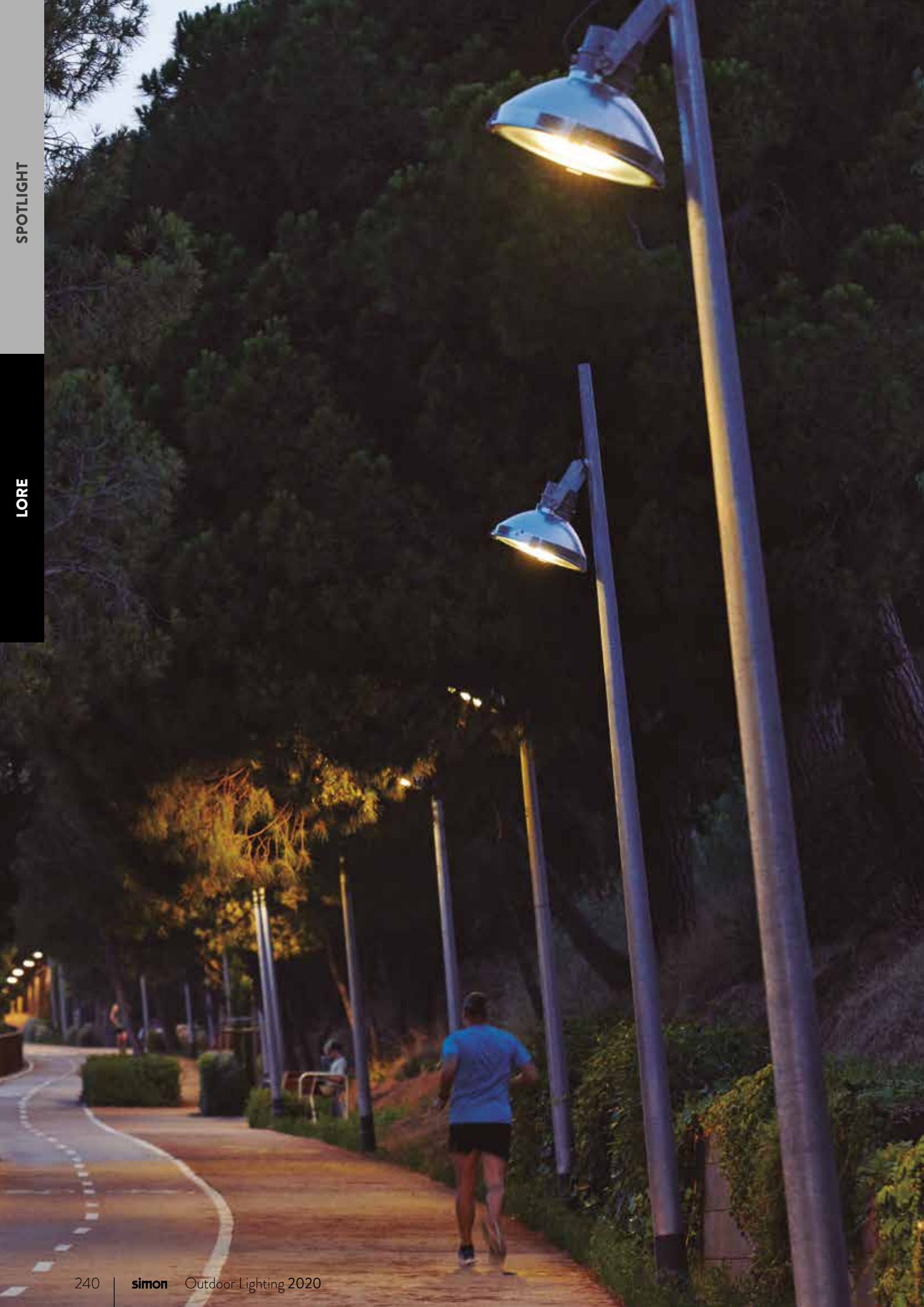
MILOS S





SPOTLIGHT

MILOS M



SPOTLIGHT

LORE

LORE

ISTANIUM^{LED}®

LED spotlight that stands out for its industrial appearance, tapered shapes and superior functionality.



Parking areas



Green trails



Avenues



Streets



Pedestrian streets



Commercial areas



Parks / Gardens



Squares



Urban cycle path



Roundabouts / Intersections



Monuments



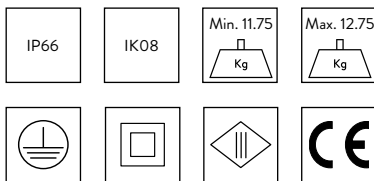
Large areas



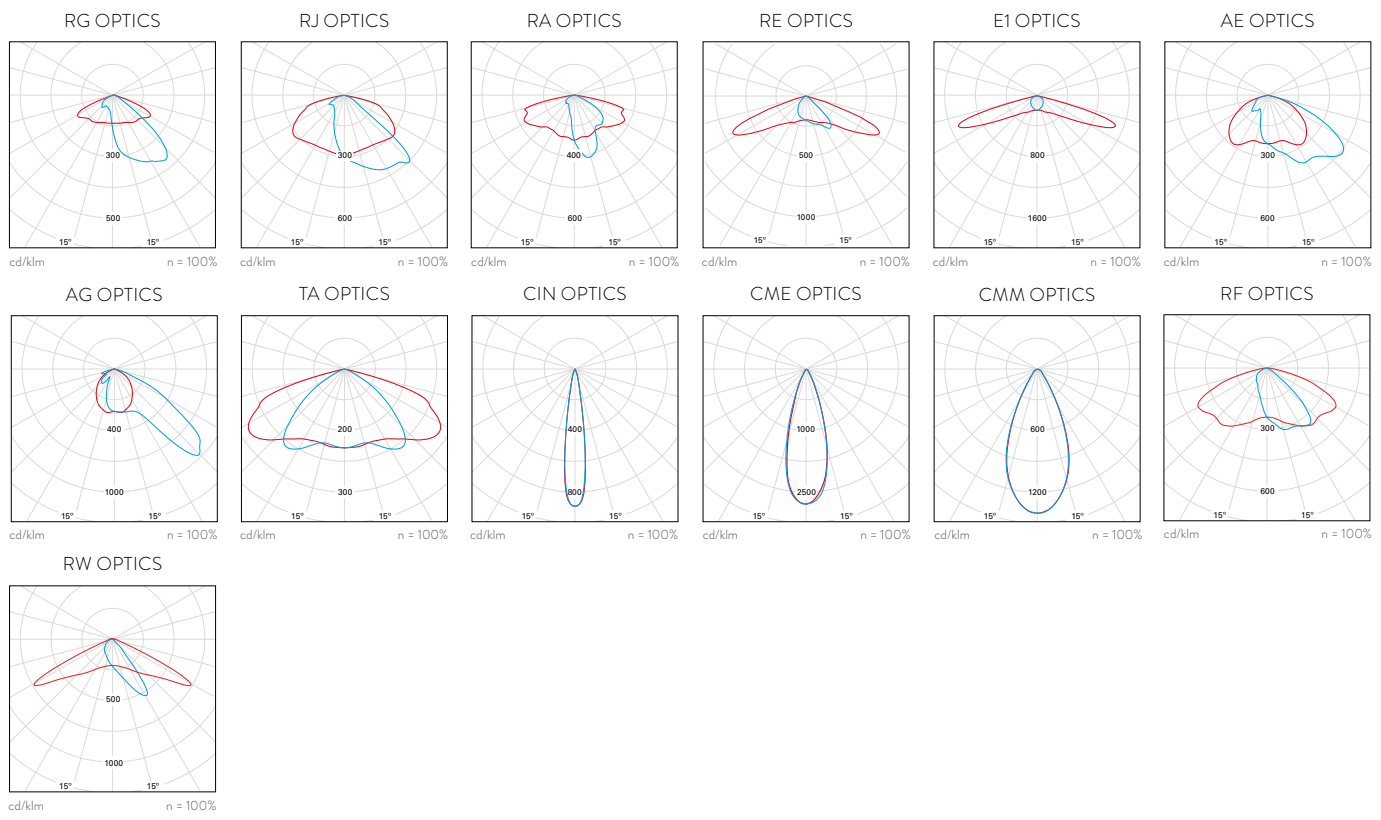
LORE

ISTANIUM^{LED}®

SPOTLIGHT LED LUMINAIRE



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)**
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

** Orientation between 0° and 5°

Simon **LORE LED** spotlight, size **M**, made of die-cast aluminium and anodised aluminium. Bracket fastening, or catenary fastening through double wire grip with angle compensator.

Flat cover. Internal refrigeration system through fins. Access to gear and maintenance through the back with two levers for tool-free opening. Access to the optical group and maintenance from the front with three levers for tool-free opening.

Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection rating for the Istanium LED optical group and **IK08** impact resistance rating.

Possibility of mounting up to fifteen multi-array optics.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

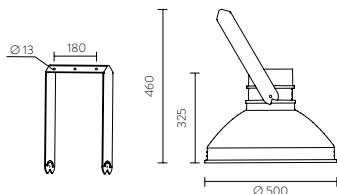
LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1% with an angle of 0° to ± 5°.

With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage and **Class III** with 12 / 24V DC supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish on body and closures in Simon GY9006 colour, bracket with galvanised finish and reflector with anodised finish. Possibility of Simon and RAL chart finishes. Dimensions 500x460x500 mm.

DIMENSIONS AND FASTENING SYSTEMS



Fastening	Bracket, Ø13 mm, Ø13 mm, Ø13 mm fastening holes Downward focus, maximum 15° angle
Catenary fastening	Fastening part with double wire grip Ø5 – 12 mm, with ±30° angle compensator.
Wire inlet	Compression seal fittings Pg 13.5 (M20)
Distance of illuminated objects	1 m
Surface exposed to the wind	0.19 m ²
Weight	Max. 12.75 kg Min. 11.75 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08
Body	Die-cast aluminium
Reflector	Anodised aluminium
Closure system	Die-cast aluminium levers
Fastening system	Galvanised steel sheet
Catenary fastening system	Galvanised steel sheet
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
Fastening system	Galvanised steel
Reflector	Anodised aluminium
Reflector closures	GY9006

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-5 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C					
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol					
Supply voltage	Luminaires supplied by electrical grid			Luminaires supplied by solar lighting points		
Supply voltage	220-240V AC			12-24V DC		
Frequency	50 / 60 Hz			-		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)			-		
Power factor (cos φ at max. charge)	≥0.95			-		
Luminaire electrical protection	Class I or Class II			Class III		
Power according to models***	12 LEDs	24 LEDs	36 LEDs	48 LEDs	60 LEDs	72 LEDs
Supply current	1 module	2 module	3 module	4 module	5 module	6 module
HIGH EFFICIENCY	12 W	24 W	35 W	47 W	59 W	71 W
HIGH BALANCE	18 W	36 W	54 W	73 W	91 W	109 W
HIGH FLUX	24 W	49 W	73 W	-	-	-
VERY HIGH FLUX	-	-	-	-	-	-



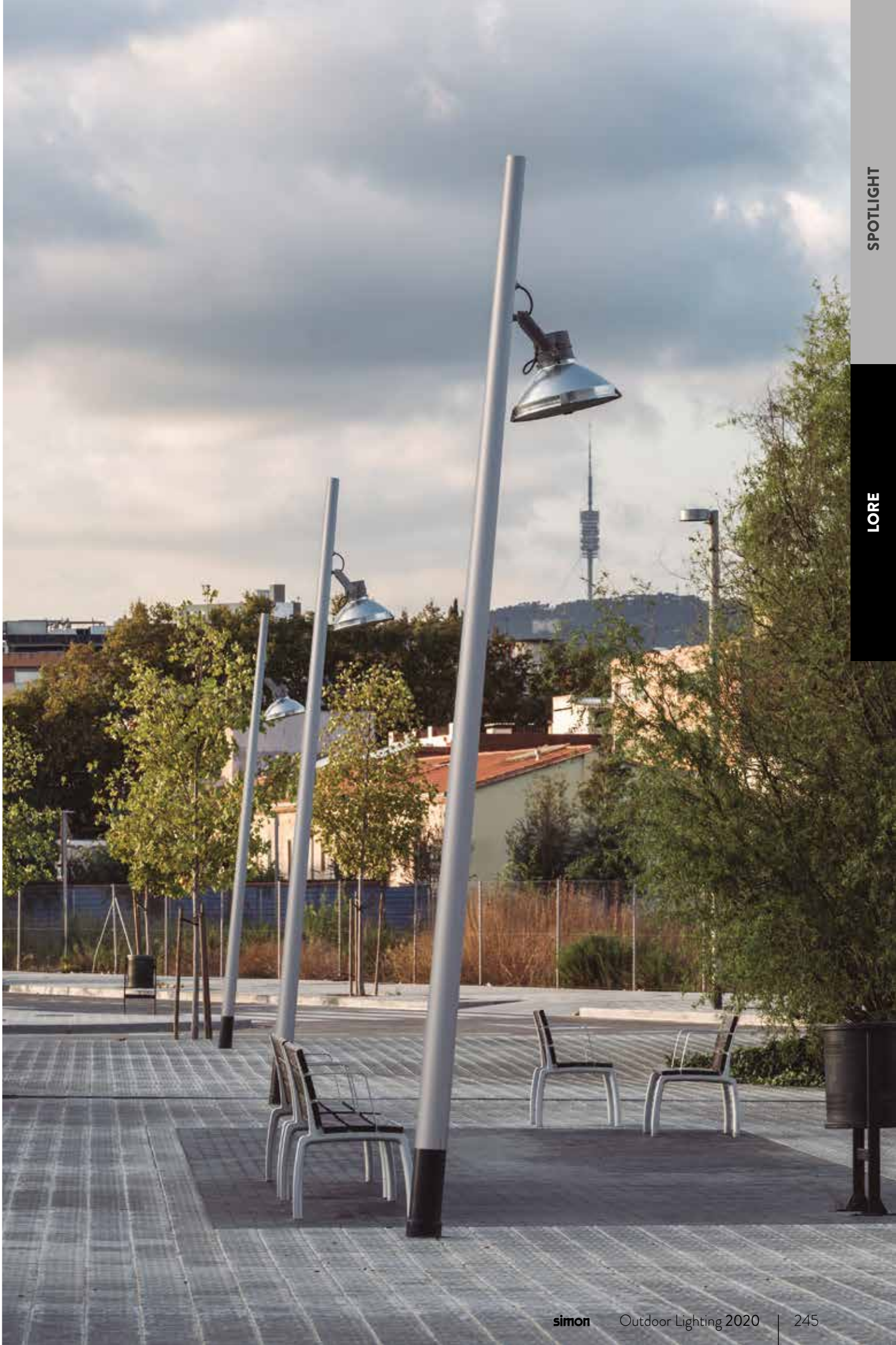
CONFIGURE YOUR LORE LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
LORMXF										Simon LORE Istanium® LED, size M, bracket fastening, flat cover
LORMCF										Simon LORE Istanium® LED, size M, catenary fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser
		0								Without installation wire (0 m)
			RG_							G Type Front Road Light Optics
			RJ_							J Type Front Road Light Optics
			RA_							A Type Extended Road Light Optics
			RE_							E Type Extended Road Light Optics
			E1_							1 Type Front Road Light Optics
			AE_							E Type Asymmetric Optics
			AG_							G Type Asymmetric Optics
			TA_							Overhead Tunnel Optics
			CIN							Intensive Tapered Optics
			CME							E Type Medium Tapered Optics
			CMM							M Type Medium Tapered Optics
			RF_							F Type Front Road Light Optics
			RW_							Wide Road Light Optics
				<input type="radio"/> NDL						Neutral daylight - 4,000 K
				<input type="radio"/> WDL						Warm daylight – 3,000 K
				<input type="radio"/> SDL						Soft daylight - 2,700 K
					_12W350					12 W 350 mA 1,760 lm @ 4,000 K 12 LEDs
					_24W700					24 W 700 mA 3,360 lm @ 4,000 K 12 LEDs
					_36W530					36 W 530 mA 4,960 lm @ 4,000 K 24 LEDs
					_49W700					49 W 700 mA 6,330 lm @ 4,000 K 24 LEDs
					_54W530					54 W 530 mA 7,390 lm @ 4,000 K 36 LEDs
					_73W700					73 W 700 mA 9,300 lm @ 4,000 K 36 LEDs
					_91W530					91 W 530 mA 12,340 lm @ 4,000 K 60 LEDs
					109W530					109 W 530 mA 14,590 lm @ 4,000 K 72 LEDs
						IA23_				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges
						IA23S				Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
						IA12_				Electronic control gear at 12 / 24V DC C3 (solar). Only admits up to 36 W and 1N and 2N- dimming
						2N_-				Dimming without control line (self-dimming)
						2N+				Dimming with control line
						1N_				Without dimming (on/off)
						CAD_				Cabinet amplitude dimming (electrical box dimmer)
						1-10				Dimming through 1.10 V input protocol
						DALI				Dimming through DALI input protocol
							C1			Class 1 Luminaire electrical protection
							C2			Class 2 Luminaire electrical protection
							C3			Class 3 (DC exclusive)
								GY9006		Standard finish in Simon Technical Grey
								*****		Finish in Simon colours (see page 514)
								*****		Finish in RAL classic chart colours

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	LORMXFGTFORJ_NDL_12W350IA23_1N_C1GY9006	409-000380017
24 W	12	700 mA	LORMXFGTFORJ_NDL_24W700IA23_1N_C1GY9006	409-000378017
36 W	24	530 mA	LORMXFGTFORJ_NDL_36W530IA23_1N_C1GY9006	409-000219017
49 W	24	700 mA	LORMXFGTFORJ_NDL_49W700IA23_1N_C1GY9006	409-000186017
54 W	36	530 mA	LORMXFGTFORJ_NDL_54W530IA23_1N_C1GY9006	409-000375017
73 W	48	700 mA	LORMXFGTFORJ_NDL_73W700IA23_1N_C1GY9006	409-000371017
91 W	60	530 mA	LORMXFGTFORJ_NDL_91W530IA23_1N_C1GY9006	409-000369017
109 W	72	530 mA	LORMXFGTFORJ_NDL109W530IA23_1N_C1GY9006	409-000367017

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



COMBINE YOUR LORE LUMINAIRE WITH:

DECORATIVE POLES:

16 M

15 M

14 M

13 M

12 M

11 M

10 M

9 M

8 M

7 M

6 M

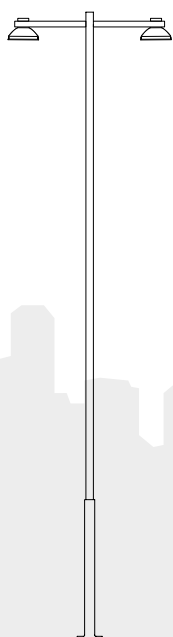
5 M

4 M

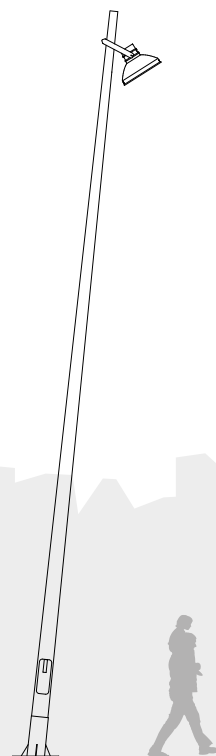
3 M

2 M

1 M



LINET



TORT

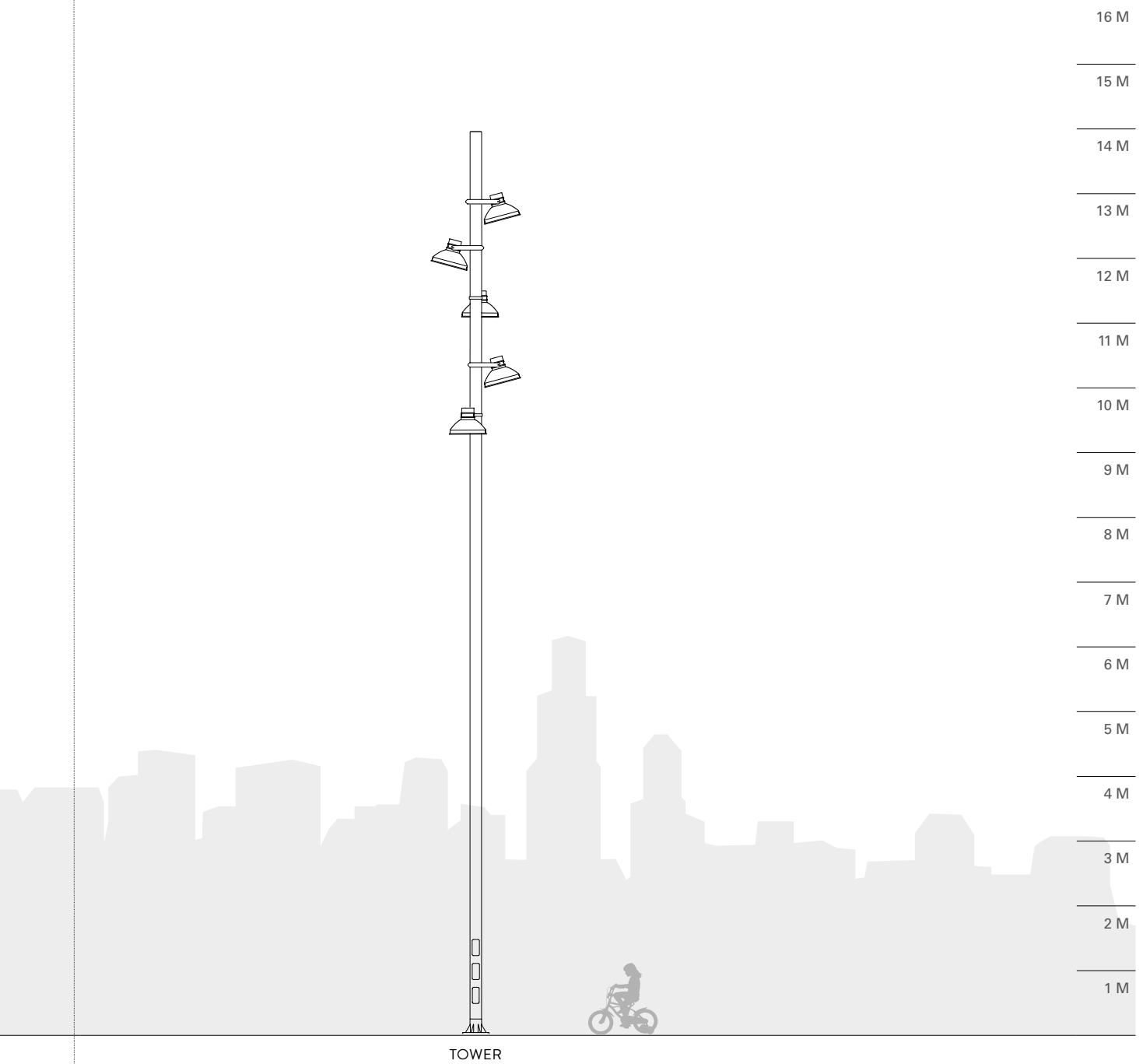
OTHER DECORATIVE POLES:

TIL

SPOTLIGHT

LORE

FUNCTIONAL POLES:



SPOTLIGHT

LORE

ACCESSORIES / REPLACEMENTS

Description	Order code
Flat transparent glass replacement	50-73486
Assembly bracket with 0° angle in vertical wall installation	50-73599

SPOTLIGHT

LOREGON



LOREGON

ISTANIUM^{LED}®

Industrial and original appearance:
Simon's suspended LED
luminaire.



Commercial areas



Large areas



Industrial spaces



Sports facilities



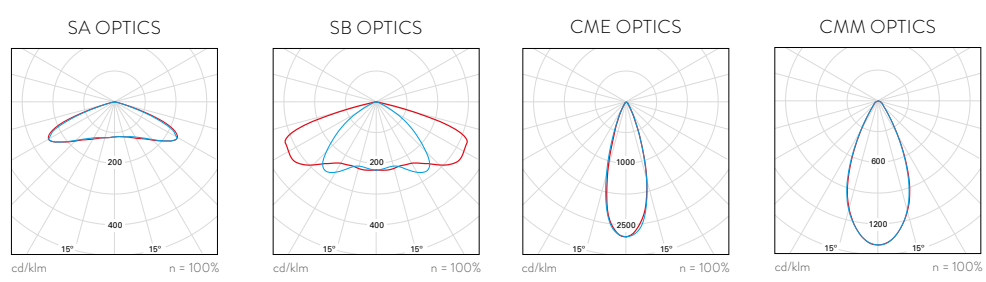
LOREGON

ISTANIUM^{LED}

SPOTLIGHT LED LUMINAIRE

IP66	IK08 IK09	Max. 12 Kg	Min. 11 Kg

COLOURTEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)**
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000h



— C0 - C180 — C90 - C270

Check other photometric distributions

* Upon request

** Orientation between 0° and 5°

Simon **LOREGON LED** spotlight, size **M**, made of die-cast aluminium and anodised aluminium sheet. Suspended fastening through die-cast steel eyebolt, or bracket fastening.

Flat cover. Internal refrigeration system through fins. Access to gear from the middle section through side closure opening, without tools. Access to the optical group from the bottom through side closure opening, without tools.

Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection rating for complete luminaire and impact resistance rating from **IK08** to **IK09**.

Possibility of mounting up to four multi-array optics.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

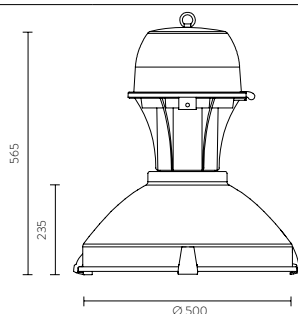
LED service life L90 B10 100,000 hours. Instant LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1% with an angle of 0° to ± 5°.

With **Class I** and **Class II** electronic control gear with 230V AC / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GY9006 colour. Possibility of Simon and RAL chart finishes. Dimensions 500x565x500 mm.

DIMENSIONS AND FASTENING SYSTEMS



Fastening	Ø20 mm eyebolt Optional bracket, Ø13 mm, Ø13 mm, Ø13 mm fastening holes
Wire inlet	Compression seal fittings Pg 13.5 (M20)
Surface exposed to the wind	0.16 m ²
Weight	Max. 12 kg Min. 11 kg

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	From IK08 to IK09
Top	Die-cast aluminium
Bottom	Anodised aluminium sheet
Closure system	Painted die-cast aluminium lever
Fastening system	Die-cast steel eyebolt. Painted galvanised steel sheet bracket
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Body	Simon Colours RAL chart colours
Closure	Dark Grey

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-5 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology ** Power values have a tolerance of ±7%

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol
Luminaires supplied by electrical grid	
Supply voltage	220-240V AC
Frequency	50 / 60 Hz
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)
Power factor (cos φ at max. charge)	≥0.95
Luminaire electrical protection	Class I or Class II
Power according to models**	12 LEDs 24 LEDs 36 LEDs 48 LEDs 60 LEDs 72 LEDs
Supply current	1mod. 2mod. 3mod. 4mod. 5mod. 6mod.
HIGH EFFICIENCY	12 W 24 W 35 W 47 W 59 W 71 W
HIGH BALANCE	18 W 36 W 54 W 73 W 91 W 109 W
HIGH FLUX	24 W 49 W 73 W - - -
VERY HIGH FLUX	- - - - - -



CONFIGURE YOUR LOREGON LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
LGOMDF										Simon LOREGON Istanium® LED, size M, eyebolt fastening, flat cover
LGOMXF										Simon LOREGON Istanium® LED, size M, bracket fastening, flat cover
	GTF									Flat transparent shatter-proof tempered glass diffuser
		0								Without installation wire (0 m)
			SA_ SB_ CME CMM							A Type Symmetric Optics B Type Symmetric Optics E Type Medium Tapered Optics M Type Medium Tapered Optics
			<input type="radio"/> NDL <input type="radio"/> WDL <input type="radio"/> SDL							Neutral daylight - 4,000 K Warm daylight – 3,000 K Soft daylight - 2,700 K
					_12W350 _24W700 _36W530 _49W700 _54W530 _73W700 _91W530 109W530					12 W 350 mA 1,760 lm @ 4,000 K 12 LEDs 24 W 700 mA 3,360 lm @ 4,000 K 12 LEDs 36 W 530 mA 4,960 lm @ 4,000 K 24 LEDs 49 W 700 mA 6,330 lm @ 4,000 K 24 LEDs 54 W 530 mA 7,390 lm @ 4,000 K 36 LEDs 73 W 700 mA 9,300 lm @ 4,000 K 36 LEDs 91 W 530 mA 12,340 lm @ 4,000 K 60 LEDs 109 W 530 mA 14,590 lm @ 4,000 K 72 LEDs
						IA23_ IA23S				Electronic control gear at 230V AC 50/60 Hz, standard protection against 6 kV power surges Electronic control gear at 230V AC 50/60 Hz, additional protection against 10 kV power surges
						2N_- 2N+_- 1N_- CAD_- 1-10 DALI				Dimming without control line (self-dimming) Dimming with control line Without dimming (on/off) Cabinet amplitude dimming (electrical box dimmer) Dimming through 1.10 V input protocol Dimming through DALI input protocol
							C1 C2			Class 1 Luminaire electrical protection Class 2 Luminaire electrical protection
									GY9006 ***** *****	Standard finish in Simon Technical Grey Finish in Simon colours (see page 514) Finish in RAL classic chart colours

BASE REFERENCES

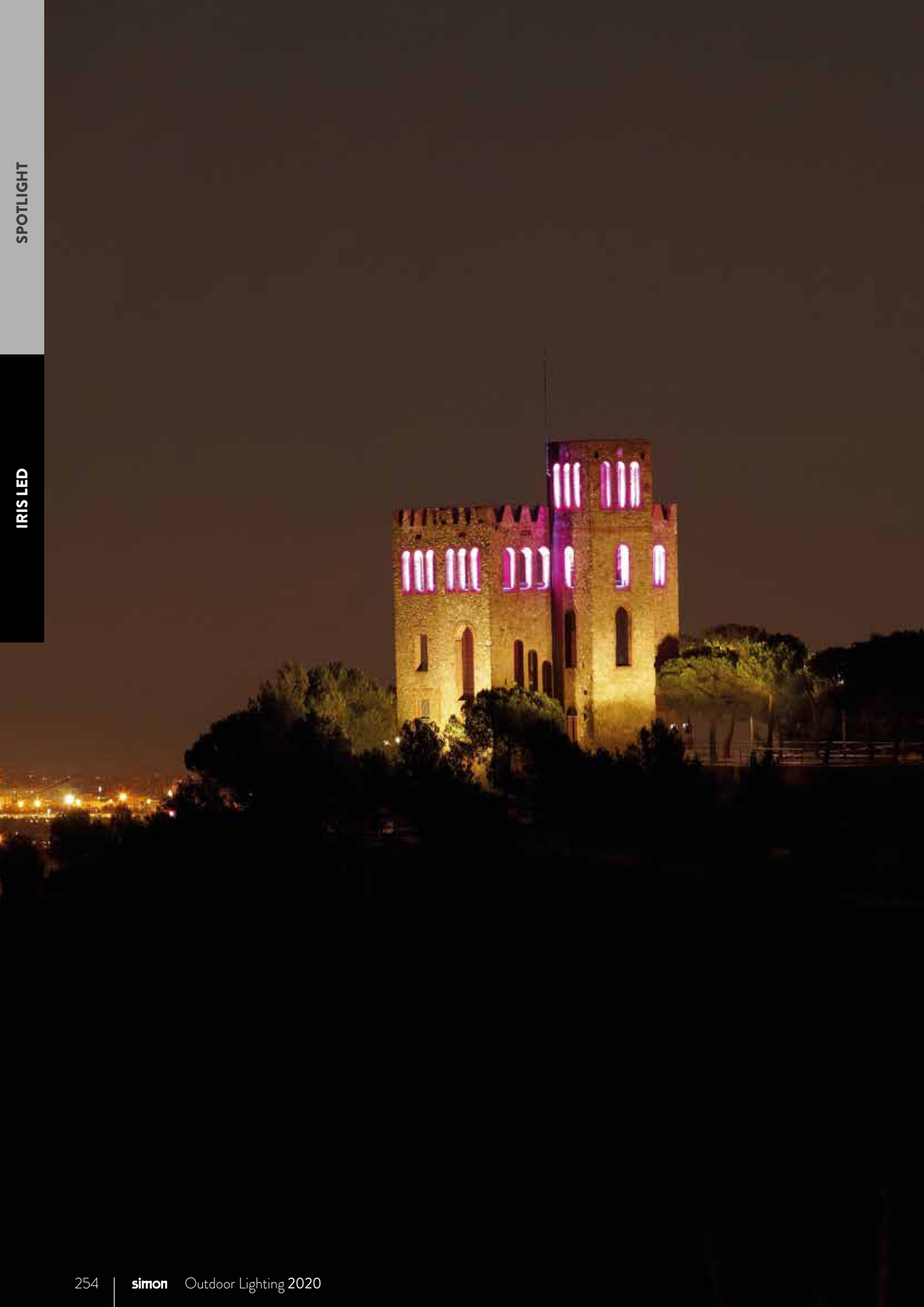
Power	No. of LEDs	Current	Configuration	Order code
49 W	24	700 mA	LGOMDFGTF0CMMWDL_49W700IA23_1N__C1GY9006	50-90946
54 W	36	530 mA	LGOMDFGTF0CMMWDL_54W530IA23_1N__C1GY9006	50-91157

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



SPOTLIGHT

LOREGON



IRIS LED

Simon linear-type spotlight for architectural lighting, which can be installed in three colour temperatures, as well as RGB and dynamic light combinations and several opening optics.



Monuments



Bridges



Façades



Signalling

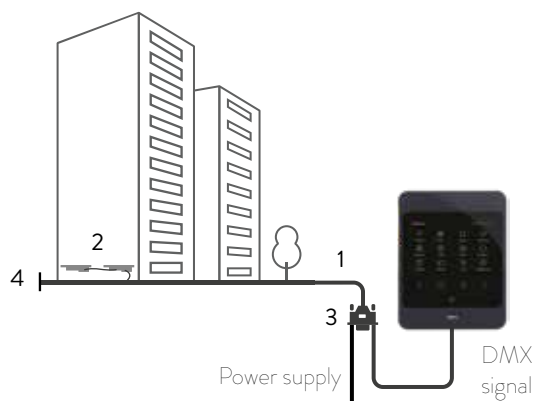




IRIS LED FEATURES

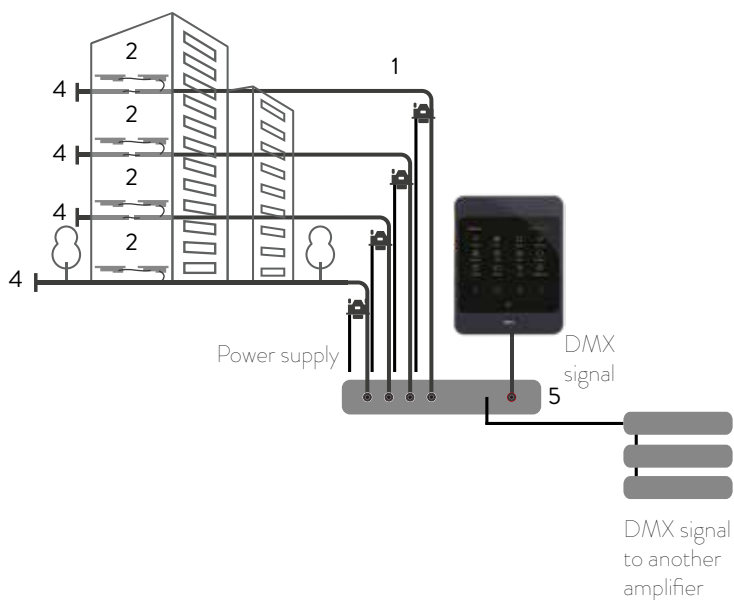
CONNECTIONS DIAGRAM

Installation with maximum 15 Luminaires



1. Power cable 11-9010-030
2. Extension cable, see codes according to length needed
3. 5-pole connector 11-9060-900. In installations without DMX, use 5-pole connector 11-9060-901
4. IP68 end cap with 120 Ω resistance 11-9050-200

Installation with maximum 15 Luminaires



1. Power cable 11-9010-030
2. Extension cable, see codes according to length needed
3. 5-pole connector 11-9060-901. In installations without DMX, use 5-pole connector 11-9060-901
4. IP68 end cap with 120 Ω resistance 11-9050-200
5. DMX amplifier 11-9112-100

TECHNICAL DATA *

Power cable: 3x1.5 mm² H07rn-F type

DMX signal wire: Belden 3105 A type

Maximum distance from DMX controller to last luminaire 100 m

Maximum distance from DMX controller to amplifier 100 m

Maximum distance from DMX amplifier to last luminaire 100 m

Maximum 15 luminaires per DMX output

For DALI installation, continue the connection with a maximum of 15 luminaires

SCENA LIGHTING CONTROL SYSTEMS



Scena is Simon's professional solution for controlling and dimming light, allowing the integration of all customisable functions and the incorporation of new features for creating emotions.

With Scena, you can create unlimited effects by adjusting and configuring all the shades of light, including colour temperature, intensity and saturation, and also create or predefine static or dynamic lighting scenes.

A UNIVERSAL SYSTEM

Scena is compatible with most existing control protocols, which lets it interact with DMX, DALI, 1-10 V, PWM... systems.

EASY CONFIGURATION

Allows easy and intuitive direct programming from the screen. It also has USB input for software updates, as well as new programming and functions.

FAST AND INTUITIVE

Through multiple interfaces that allow continued access and control of all functions.

UNLIMITED APPLICATIONS

It offers virtually unlimited applications in different environments: residential, workspaces, hotels, hospitals... allowing their lighting to be moulded and adapted to all the activities that take place there.

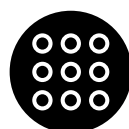
TOTAL LIGHTING CONTROL



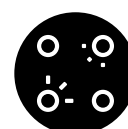
Dimming



Colour



Groups



Scenes



Sequences



Constant lighting control



Calendar



Occupation

* Note: Non-compliance with these restrictions can cause the installation to malfunction.

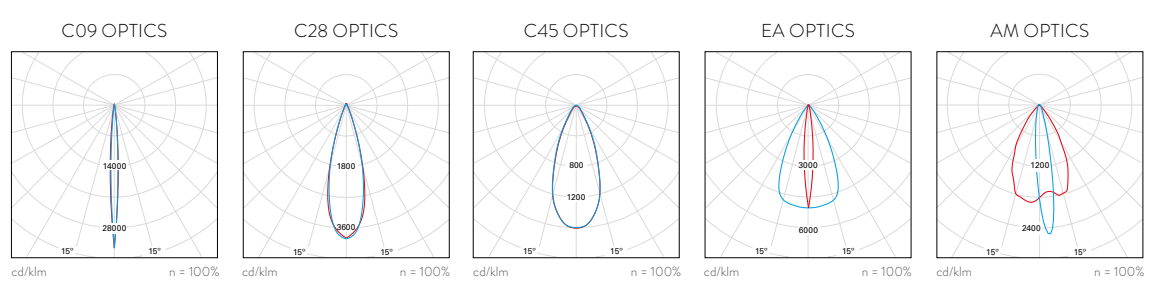


IRIS LED

LED LINEAR SPOTLIGHT

IP66	IK08	4.5 Kg	Max. 4.5 Kg	Min. 1.2 Kg

COLOUR TEMP.: CDL 6000 K | ND L 4000 K | WDL 2800 K | DDL (2800 K – 6000 K) | BL Blue | RGB | R3W (RGB + ND L)
 COLOUR RENDERING INDEX: >80
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)**
 DURATION OF THE LEDS (L70 B10 AT 25 °C): 50,000h



— C0 - C180 — C90 - C270

Check other photometric distributions

** Orientation between 0° and 5°

IRIS LED linear spotlight, available in four different sizes, with aluminium body and fastening system. Lateral surface - mounted fastening with 110° rotation radius, or high central surface - mount fastening with 95° rotation radius.

Flat cover.

Easy - clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection rating for complete luminaire and **IK08** impact resistance rating.

Hose wiring system between luminaires with five - pin connectors, upon request according to installation.

Possibility of mounting up to five optics.

Possibility of three colour temperatures in white light, dynamic white, RGB, as well as RGB plus white light.

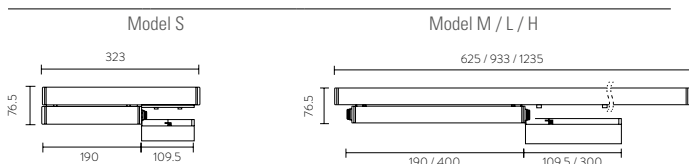
LED service life L70B10 50,000 hours. Upward Light Output Ratio (inst. ULOR) of less than 1% with an angle of 0° to ± 5°.

With **Class I** electronic control gear with 100 - 277V AC / 50 Hz power supply.

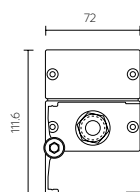
Optional dimming with DMX 512 - A and DALI for models with dynamic white light, RGB and RGB plus white light.

Standard finish in AS colour (aluminium). Possibility of finishes in Simon BK9005 or WH9003 colour. Dimensions for lateral fastening models of 72x112x323 mm for size S, 72x112x625 mm for size M, 72x112x933 mm for size L and 72x112x1235 mm for size H.

DIMENSIONS AND FASTENING SYSTEMS

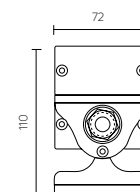


Lateral fastening



Surface-mounted, dimmable, with wide rotation radius for light flux orientation (110°). Large luminaire measurements (high). System recommended for bathing walls from top to bottom, by fastening the luminaire on the surface of the wall itself

Central Fastening High



Surface-mounted, dimmable, with reduced rotation radius for light flux orientation (95°). Reduced luminaire height. System recommended for lighting objects such as monuments, large objects, etc.

Weight Min. 1.2 kg – 300 mm model
Max. 4.5 kg – 1,200 mm model

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08
Base	Aluminium
Body	Aluminium
Diffuser	Flat transparent tempered glass

FINISHES

Body	AS (aluminium) BK9005 WH9003
-------------	------------------------------------

REGULATIONS AND CERTIFICATES



Luminaire according to: 60598-2-5 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 2 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked over time. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to ensure proper dissipation and not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** The luminaire power can vary by around ± 7%.

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +50 °C
Dimming*	1N (100%) Without dimming for monocolour light models DALI For dynamic white light, RGB and RGB plus white light models DMX 512-A For models with dynamic white light, RGB and RGB plus white light
	Luminaires supplied by electrical grid
Supply voltage	100-277V AC
Frequency	50 Hz
Protection against power surge	-
Power factor (cos φ at max. charge)	≥0.95
Luminaire electrical protection	Electronic - Class I
Power according to models**	12 LEDs 24 LEDs 36 LEDs 48 LEDs 18 W 30 W 43 W 55 W
Supply current	350mA



CONFIGURE YOUR IRIS LED LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
IRISLF										IRIS Istanium® LED, S (300 mm), lateral fastening, flat lateral covers with 110° rotation angle
IRIMLF										IRIS Istanium® LED, size M (600 mm), lateral fastening, flat lateral covers with 110° rotation angle
IRILLF										IRIS Istanium® LED, size L (900 mm), lateral fastening, flat lateral covers with 110° rotation angle
IRIHLF										IRIS Istanium® LED, size H (1200 mm), lateral fastening, flat lateral covers with 110° rotation angle
IRISTF										IRIS Istanium® LED, size S (300 mm), high central fastening, flat lateral covers with 95° rotation angle
IRIMTF										IRIS Istanium® LED, size M (600 mm), high central fastening, flat lateral covers with 95° rotation angle
IRILTF										IRIS Istanium® LED, size L (900 mm), high central fastening, flat lateral covers with 95° rotation angle
IRIHTF										IRIS Istanium® LED, size H (1200 mm), high central fastening, flat lateral covers with 95° rotation angle
	GTF									Flat transparent shatter-proof tempered glass diffuser
		0								Without installation wire (0 m)
			C09							9° tapered optics
			C28							28° tapered optics
			C45							45° tapered optics
			EA_							10x50° elliptical optics
			AM_							16x60° asymmetric optics
			CDL							Cold daylight – 6,000 K
			<input type="radio"/> NDL							Neutral daylight - 4,000 K
			<input type="radio"/> WDL							Warm daylight – 2,800 K
			DDL							Dynamic daylight (with DMX / DALI dimming)
			RGB							RGB (with DMX / DALI dimming)
			R3W							RGB + NDL (with DMX / DALI dimming)
				_18W350						18 W 350 mA 1,015 lm @ 4000 K 12 LEDs Size 300 mm
				_30W350						30 W 350 mA 2,029 lm @ 4000 K 24 LEDs Size 600mm
				_43W350						43 W 350 mA 3,044 lm @ 4000 K 36 LEDs Size 900mm
				_55W350						55 W 350 mA 4,058 lm @ 4000 K 48 LEDs Size 1200mm
					MA23					Electronic control gear at 230V AC 50 Hz
						1N_				Without dimming (on/off)
						DMX_				Dimming through DMX 512-A protocol
						DALI				Dimming through DALI protocol
							C1			Class 1 Luminaire electrical protection
								AS		Anodised Aluminium
								BK9005		Black RAL9005
								WH9003		White RAL9003

BASE REFERENCES

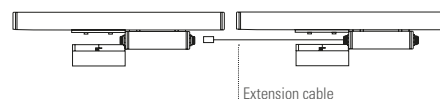
Power	No. of LEDs	Current	Configuration	Order code
18 W	12	350 mA	IRISLFGTFC09NDL_18W350MA23_1N__C1AS____	11-0111-241
18 W	12	350 mA	IRISLFGTFOEA_NDL_18W350MA23_1N__C1AS____	11-0111-242
18 W	12	350 mA	IRISLFGTFOEA_RGB_18W350MA23_DMX_C1AS____	11-0111-512
30 W	24	350 mA	IRIMLFGTFC09NDL_30W350MA23_1N__C1AS____	11-0211-241
30 W	24	350 mA	IRIMLFGTFOEA_NDL_30W350MA23_1N__C1AS____	11-0211-242
30 W	24	350 mA	IRIMLFGTFOEA_RGB_30W350MA23_DMX_C1AS____	11-0211-512
43 W	36	350 mA	IRILLFGTFC09NDL_43W350MA23_1N__C1AS____	11-0311-241
43 W	36	350 mA	IRILLFGTFOEA_NDL_43W350MA23_1N__C1AS____	11-0311-242
43 W	36	350 mA	IRILLFGTFOEA_RGB_43W350MA23_DMX_C1AS____	11-0311-512
55 W	48	350 mA	IRIHLFGTFC09NDL_55W350MA23_1N__C1AS____	11-0411-241
55 W	48	350 mA	IRIHLFGTFOEA_NDL_55W350MA23_1N__C1AS____	11-0411-242
55 W	48	350 mA	IRIHLFGTFOEA_RGB_55W350MA23_DMX_C1AS____	11-0411-512

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



INTERCONNECTION

From / To	300 mm IRIS	600 mm IRIS	900 mm IRIS	1200 mm IRIS
300 mm IRIS				
600 mm IRIS	11-9020-104	11-9020-106	11-9020-106	11-9020-109
900 mm IRIS	11-9020-104	11-9020-106	11-9020-106	11-9020-109
1200 mm IRIS	11-9020-104	11-9020-106	11-9020-109	11-9020-109



ACCESSORIES / REPLACEMENTS

Description	Order code
5-Pole 2 m power cable	11-9010-030
0.4 m extension cable with IP68 connectors	11-9020-104
0.6m extension cable with IP68 connectors	11-9020-106
0.9m extension cable with IP68 connectors	11-9020-109
1.5m extension cable with IP68 connectors	11-9020-115
Extension cable for IP68 overhead connectors 1 m (connectors not included)	11-9080-001
IP68 5-pole male overhead connector. Allows for customisable extension cables	11-9060-700
IP68 5-pole female overhead connector. Allows for customisable extension cables	11-9060-800

ACCESSORIES / REPLACEMENTS

Description	Order code
IP68 end cap with 120 Ω resistance, terminal luminaire required for installations with DMX 512-A	11-9050-200
IP68 end cap, terminal luminaire	11-9050-100
IP68 5-pole "I" connector without CPU	11-9060-901
IP68 5-pole "Y" connector without CPU	11-9060-900
DMX router	11-9102-000
RACK format 4-output amplifier	11-9112-100
Show / scene scheduling service	See



LUMINAIRES

SIGNALLING
AND BEACON**JR1****NYX****SU**

2 / 3

**SU**

7



Providing orientation lighting helps us to locate ourselves in space and also offers users an interesting nocturnal landscape. Discover our signalling and beacon range, including submersible luminaires.



JR1

Simon JR1 LED beacon luminaire, size S, made of die-cast aluminium. Above the floor installation or recessed installation in the floor.



Pedestrian streets



Commercial areas



Parks / gardens



Monuments



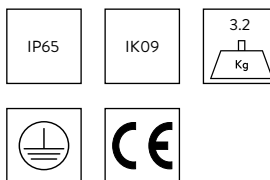
Signalling



JR1

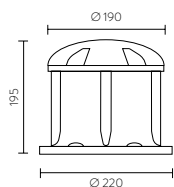


Simon **JR1 LED** beacon luminaire, size **S**, made of die-cast aluminium. Above the floor installation or recessed installation in the floor.
 An anchoring tube may be used to facilitate recessed installation in the floor.
 Lenticular cover with diffuser glass and protective structure.
 Opal tempered glass lenticular diffuser. **IP65** protection rating and **IK09** impact resistance rating.
 May be installed in one photometric distribution.
 Possibility of one colour temperature in white light.
 LED service life L70 B10 50,000 hours. With **Class I** electronic control gear with 230 VAC / 50 Hz power supply. Standard finish in Simon DGCLAS colour. Dimensions: 220 x 195 x 220 mm for over the floor fastening and 210 x 160 x 210 mm for recessed installation in the floor model.

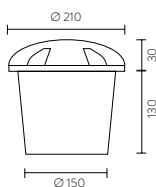


COLOUR TEMP.: CDL 5600 K
COLOUR RENDERING INDEX: >80
DURATION OF THE LEDS (L70 B10 AT 25°C) 50,000 h

DIMENSIONS AND FASTENING SYSTEMS



Floor beacon



Recessed beacon

Diffuser beacon fastening	On floor with four M8 screws (not supplied)
Recessed beacon fastening	Inground upright. Requires anchoring tube code 50-18801 for assembly on ground or cement/concrete: (See diagrams on following page)
Wire inlet	Seal fittings M25
Weight	3.2 kg

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming	1N (100%) Without dimming

Luminaires supplied by electrical grid

Supply voltage	120-277 Vac
Frequency	50 / 60 Hz
Power factor (cos φ at max. charge)	≥0.9
Luminaire electrical protection	Class I
Number of LEDs	24 LEDs
Rated power	7 W

PHYSICAL FEATURES AND MATERIALS

IP	IP65
IK	IK09
Body	Die-cast aluminium
Closure system	With stainless steel screws
Diffuser	Opal lenticular shatter-proof tempered glass

FINISHES

Body	DGCLAS
-------------	--------

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-1 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty	5 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.



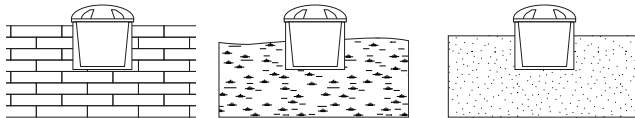
CONFIGURE YOUR JR1 LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
JR1SRB										Simon JR1 LED, size S, floor fastening, lenticular cover
JR1SGB										Simon JR1 LED, size S, inground uplight fastening, lenticular cover
	GOL									Opal lenticular shatter-proof tempered glass diffuser
		0								Without installation wire (0 m)
			WB_							Extensive symmetrical distribution
				CDL						Cold daylight – 5600 K
					_7W_30					7 W 30 mA 24 LEDs
						IA23_				Electronic control gear at 230 Vac 50 / 60 Hz
							1N_			Without dimming (on/off)
								C1		Class 1 Luminaire electrical protection
									DGCLAS	Forged Sand Blasted Dark Grey Finish

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
7 W	24	30 mA	JR1SRBGOL0WB_CD_L_7W_30IA23_1N_C1DGCLAS	50-18617
7 W	24	30 mA	JR1SGBGOL0WB_CD_L_7W_30IA23_1N_C1DGCLAS	50-18618

RECESSED MODELS




On floor,
without anchoring tube

Directly on the ground,
with anchoring tube

In concrete,
with anchoring tube

Drainage must be taken into account for proper installation of recessed models

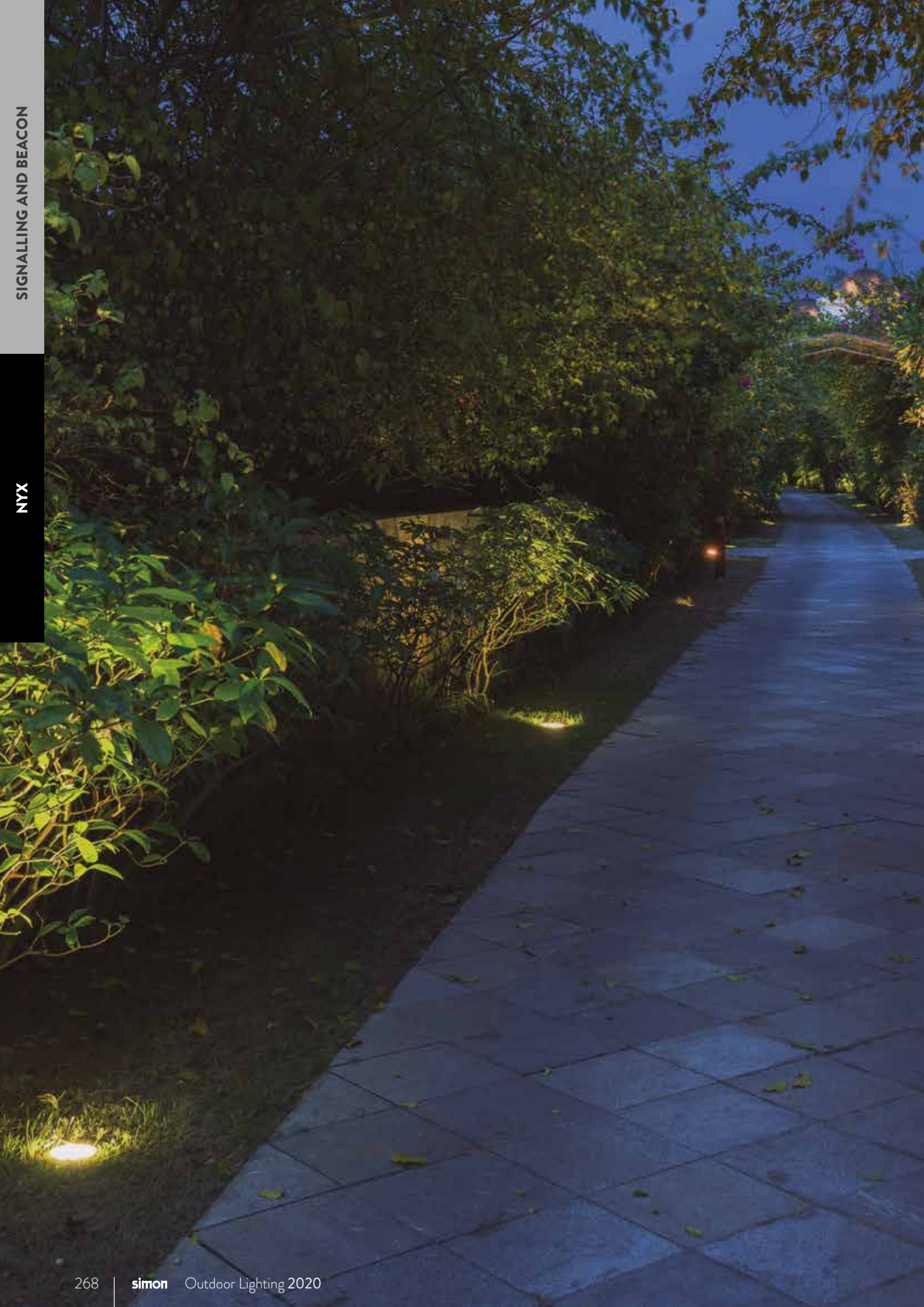
ACCESSORIES / REPLACEMENTS

Description	Order code
 Anchoring tube for inground uplight model. Height 220 mm, outer Ø180 mm, inner Ø162 mm.	50-18801
Upper cover replacement with light group	50-71227

OTHER LUMINAIRES IN THE COLLECTION



NYX



NYX

Simon NYX LED spotlight, size S,
ABS/polyamide body and stainless steel ring.
Recessed installation in the floor.



Pedestrian streets



Commercial areas



Parks / gardens



Monuments



Signalling

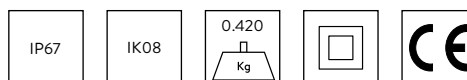




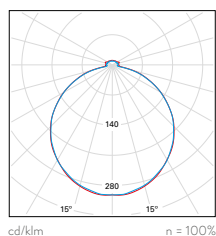
NYX

Simon **NYX LED** recessed spotlight, size **S**, ABS/polyamide body and stainless steel ring. Recessed installation in the floor.
 Option of box installation in cement/concrete to facilitate assembly. Flat cover with diffuser glass and trim ring.
 Flat opal tempered glass diffuser to facilitate cleaning. **IP67** protection rating and **IK08** impact resistance rating.
 May be installed with up to three optics.
 Possibility of two colour temperatures in white light, as well as blue light.
 LED service life L70 B10 50,000 hours.
 With **Class II** electronic control gear with 230 VAC / 50Hz power supply.
 SS (stainless steel) trim ring finish.
 Dimensions 95x179x95 mm.

COLOUR TEMP.: CDL 5500 K | WDL 2800 K | BL Blue
COLOUR RENDERING INDEX: >70 (CDL) | >80 (WDL)
DURATION OF THE LEDS (L70B10 AT 25°C): 50,000 h

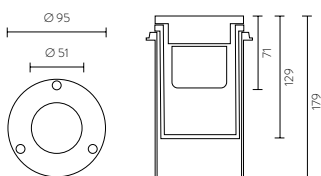


WB OPTICS



— C0 - C180 — C90 - C270

DIMENSIONS AND FASTENING SYSTEMS



Fastening Inground uplight. Requires installation box code 11-1040-000 for cement/concrete assembly.

PHYSICAL FEATURES AND MATERIALS

IP	IP67
IK	IK08
Body	ABS/Polyamide
Diffuser	Flat opal glass
Trim ring	Stainless steel

FINISHES

Trim ring	SS (Stainless steel)
------------------	----------------------

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-13 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581

Warranty 2 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Power values have a tolerance of ±7%




CONFIGURE YOUR NYX LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Power	Gear	Dimming	Protection	Finish	Description
NYXSGF										Simon NYX LED, size S, recessed in floor, flat cover
	GOF									Flat opal glass diffuser
		0								Without installation wire (0 m)
			WB_							Extensive symmetrical distribution
				CDL WDL _BL						Cold daylight – 5,500 K Warm daylight – 2,800 K Blue
					_3W350					3 W 350 mA 79 lm @ 5,500 K 3 LEDs
						MA23_				Electronic control gear at 230 VAc 50 Hz
							1N_			Without dimming (on/off)
								C2		Class 2 Luminaire electrical protection
									SS_	Stainless steel finish

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
3 W	12	350 mA	NYXSGFGOF0WB_CD_3W350MA23_1N_C2SS_	11-1044-145
3 W	12	350 mA	NYXSGFGOF0WB_WDL_3W350MA23_1N_C2SS_	11-1044-345
3 W	12	350 mA	NYXSGFGOF0WB_BL_3W350MA23_1N_C2SS_	11-1044-945

ACCESSORIES / REPLACEMENTS

Description	Order code
 Installation box in cement/concrete	11-1040-000



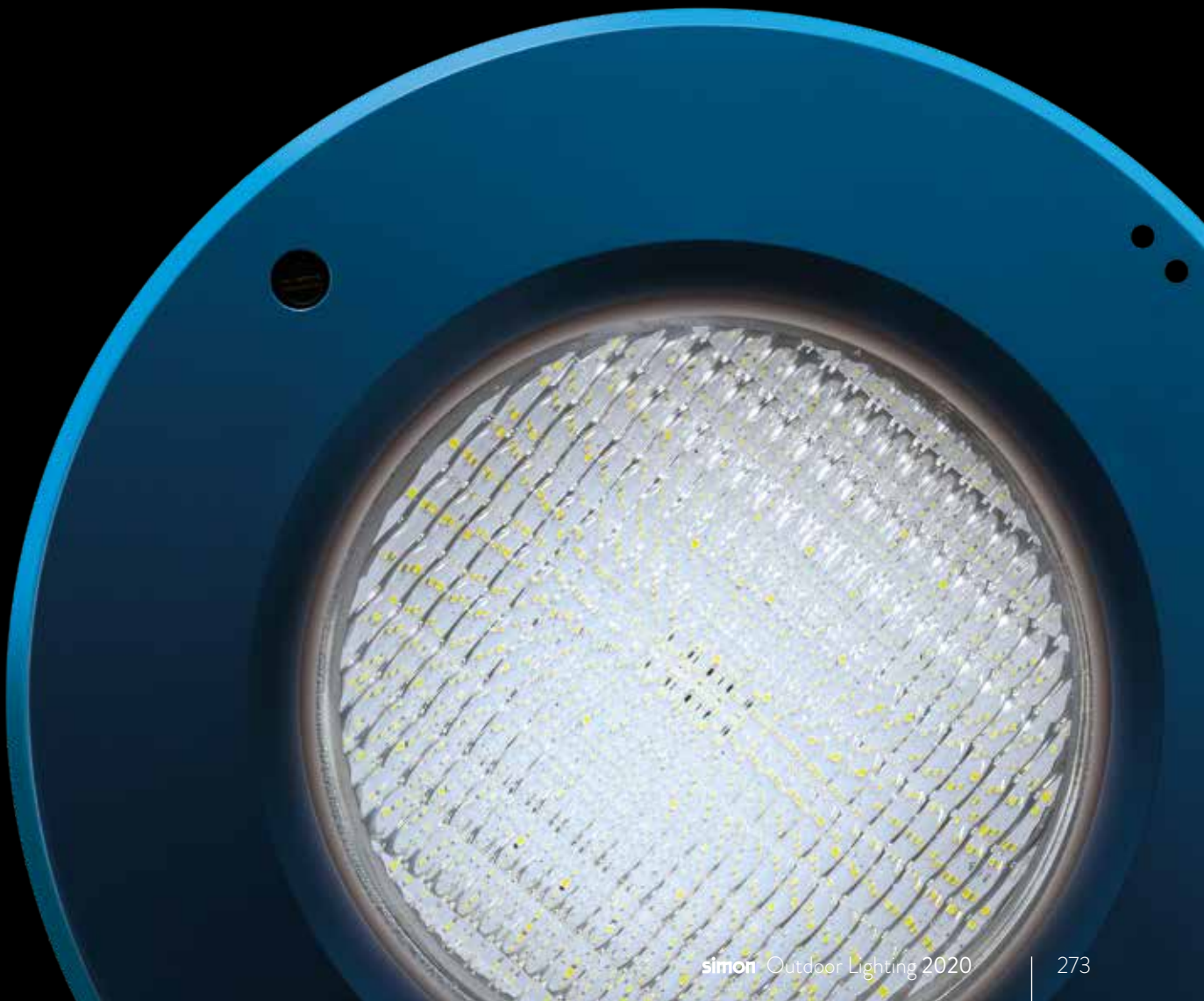
SU

2 / 3

Simon SU2 / SU3 submersible spotlight,
technical polymer. Wall fastening.



Submersible



SU 2 / 3

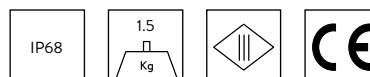


Simon **SU2** submersible spotlight, technical polymer. Wall fastening. Suitable for **concrete pools**

IP68 protection rating. Suitable for PAR 56 lamps up to 300 W at 12 VAC. Lamp not included. **Class III**. Transformer not included. Standard finish in Simon WH9010 or Simon BL5015 colour. Dimensions 292x154x292 mm.

Simon **SU3** submersible spotlight, technical polymer. Wall fastening. Suitable for **prefabricated fibreglass or polyester swimming pools**.

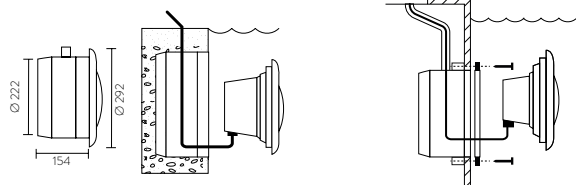
IP68 protection rating. Suitable for PAR 56 lamps up to 300 W at 12 VAC. Supplied without lamp. **Class III**. Transformer not included. Standard finish in Simon WH9010 or Simon BL5015 colour. Dimensions 292x154x292 mm.



DIMENSIONS AND FASTENING SYSTEMS

SU 2 model

SU 3 model



Fastening	Wall
Wire inlet	Seal fittings Pg 16 (for wires with a 2 x 6 mm ² section)
Weight	1.5 kg
Notes	Supplied with recessed box

PHYSICAL FEATURES AND MATERIALS

IP	IP68 (1.5 m category C)
Body	Technical polymer

FINISHES

Standard	WH9010 - White RAL9010 BL5015 - Blue RAL5015
-----------------	---

REGULATIONS AND CERTIFICATES



Conforms to standard EN-60598-1 & 2-18

Warranty 2 years.

Supply and packaging Packed in recycled cardboard with an identifying label to protect the product during transport and storage.

Maintenance Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked over time. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to ensure proper dissipation and to not lose light flux without shortening the life of the LEDs.

ELECTRICAL PARAMETERS

Temp.	Submerged (only works when submerged)
Installation	Inlet for 2 x 6 mm ² cables under rubber seal fitting. Wall installation in concrete walls (SU2 model) Wall installation for prefabricated fibreglass or polyester swimming pools (SU3 model)
	Luminaires supplied by electrical grid
Supply voltage	12 VAC. Transformer not included. Request separately.
Luminaire electrical protection	Class III
Power according to lamp	up to 300 W
Lamps	PAR 56 (Up to 300 W - 12 Vac). Lamp with GX16d. Lamp not included.

MODEL BASE REFERENCES

Model	For Lamp (W)	Holder	Finish	UV	UP	Description	Code*
SU 2	PAR 56 300W - 12 VAC	GX16d	Blue BL5015	12	4	SU2SGNDDDD0RRRR1NG00WGX16dNP_DDDDC3BL5015	50-23051
			White WH9010	20	4	SU2SGNDDDD0RRRR1NG00WGX16dNP_DDDDC3WH9010	50-23061
SU 3	PAR 56 300W - 12 VAC	GX16d	Blue BL5015	12	4	SU3SGNDDDD0RRRR1NG00WGX16dNP_DDDDC3BL5015	50-23053
			White WH9010	20	4	SU3SGNDDDD0RRRR1NG00WGX16dNP_DDDDC3WH9010	50-23063

TRANSFORMER BASE REFERENCES

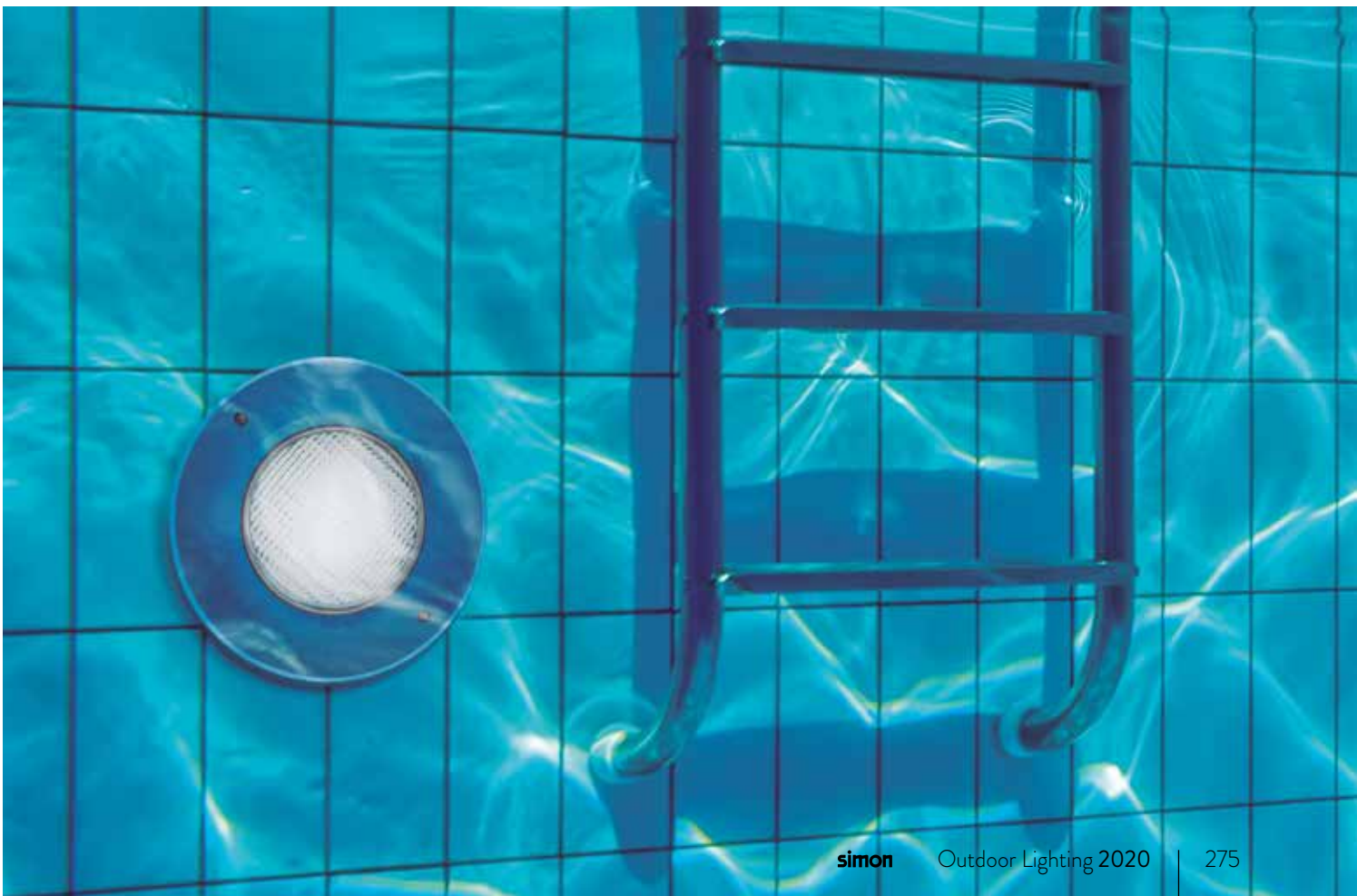
Model	Transformer	Enclosure	Protection	Dimensions	Description	Code
SU 2	Reducer Max. 300 W	-	IP20	120 x 158 x 94	ZZ TRANSFORMER IP20 SU	50-23050
		Polymer box	IP65	155 x 175 x 110	ZZ TRANSFORMER IP65 SU	50-23005
SU 3	Reducer Max. 300 W	-	IP20	120 x 158 x 94	ZZ TRANSFORMER IP20 SU	50-23050
		Polymer box	IP65	155 x 175 x 110	ZZ TRANSFORMER IP65 SU	50-23005

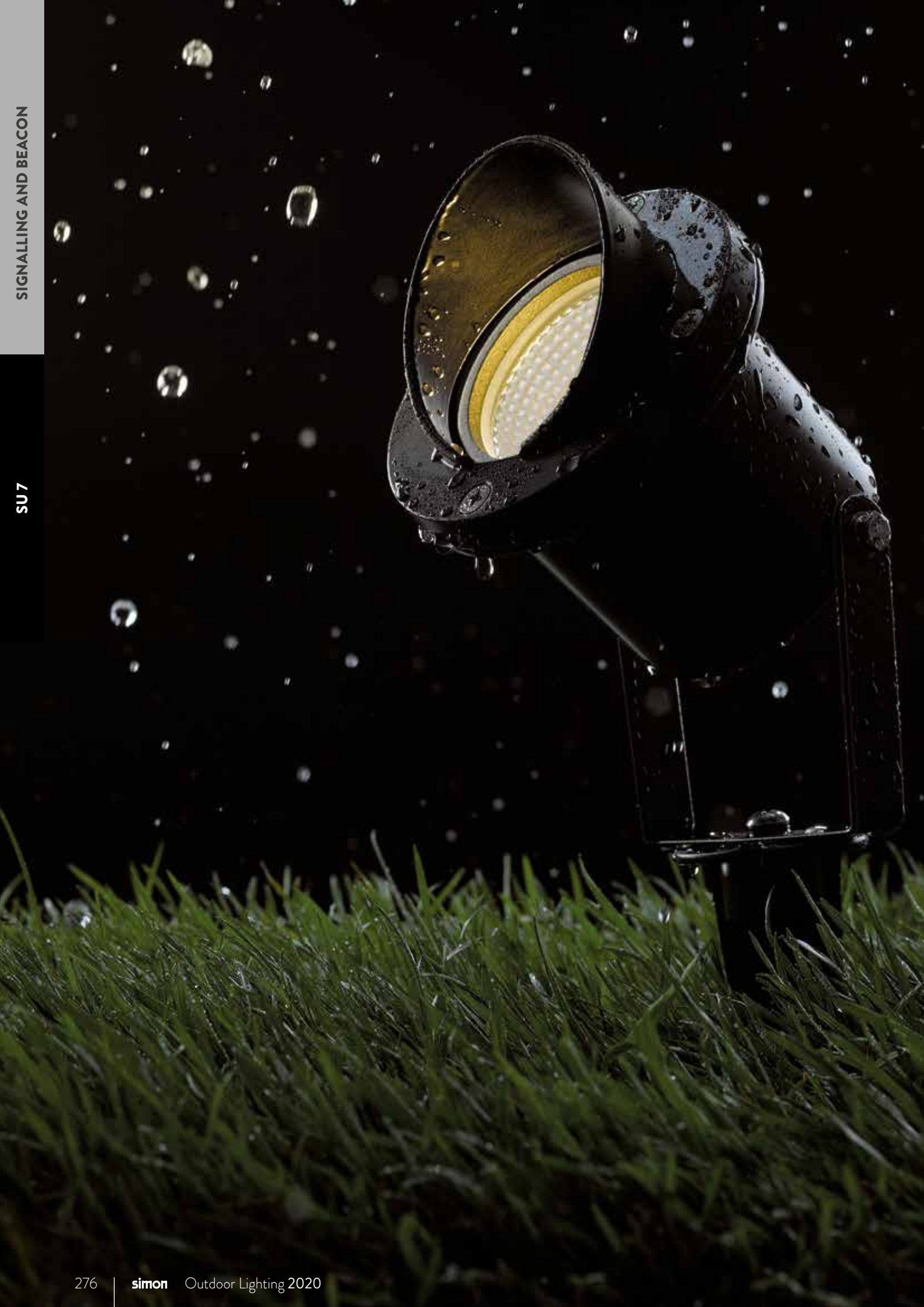
For **SU 2** single-rail reducing transformers with separate circuits and ground connection, to supply a subaquatic spotlight with PAR 56 300 W - 12 VAC lamp with 3 different inlets to compensate for voltage dips according to the installation distance. Input voltage 230 VAC - 50 Hz. Power 350 VA. No built-in fuse or power cable between transformer and lamp. Complies with M.I.B.T. 035 instruction from R.E.B.T.

For **SU 3** single-rail reducing transformers with separate circuits and ground connection, to supply a subaquatic spotlight with PAR 56 300 W - 12 VAC lamp with 3 different inlets to compensate for voltage dips according to the installation distance. Input voltage 230 VAC - 50 Hz. Power 350 VA. No built-in fuse or power cable between transformer and lamp. Complies with M.I.B.T. 035 instruction from R.E.B.T.

ACCESSORIES / REPLACEMENTS SU 2 + SU 3

Description	Order code
Lamp seal replacement	50-86856
Blue ring BL5015	50-23904
White ring WH9010	50-23902





SU

7

Simon SU 7 submersible spotlight,
technical polymer. Wall fastening.



Submersible





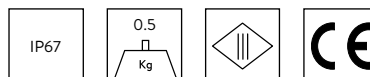
SU 7

Simon **SU 7** spotlight for fountains and ponds, made of die-cast aluminium. Bracket fastening. Optional dirt floor fastening using a die-cast aluminium stake. Flat transparent tempered glass diffuser to facilitate cleaning. **IP67** protection rating.

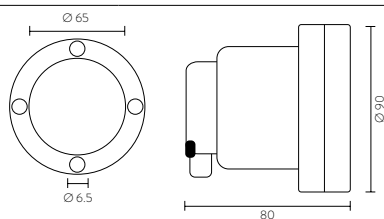
Suitable for 50 W MR16 lamps at 12 VAC. Lamp not included.

Class III. Transformer not included.

Standard finish in Simon BK9005 colour. Dimensions 90x80x90 mm.



DIMENSIONS AND FASTENING SYSTEMS



Fastening	Bracket, Ø6.5 mm fastening holes or stake
Wire inlet	Seal fitting inlet, admits maximum Ø8 mm (2 x 1.5 mm ² section) cable hose
Weight	0.5 kg
Notes	Can be used both submerged or outdoors. Check R.E.B.T.

PHYSICAL FEATURES AND MATERIALS

IP	IP67
Body	Die-cast aluminium
Fastening system	Painted galvanised steel sheet
Diffuser	Flat transparent shatter-proof tempered glass

FINISHES

Standard	BK9005 - Black RAL9005
-----------------	------------------------

ELECTRICAL PARAMETERS *

Installation	Maximum Ø8 mm (2 x 1.5 mm ² section) cable hose inlet
	Luminaires supplied by electrical grid
Supply voltage	12 VAC. Transformer not included. Request separately.
Luminaire electrical protection	Class III
Power according to models**	up to 50 W
Lamps	MR16 (maximum 50 W - 12 VAC) for submerged use. MR16 (maximum 35 W - 12 VAC) for outdoor use. Lamp holders: GU 5.3. Lamp not included.

REGULATIONS AND CERTIFICATES



Conforms to standard EN-60598-1 & 2-18

Warranty	2 years.
Supply and packaging	Packed in recycled cardboard with an identifying label to protect the product during transport and storage.
Maintenance	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to not lose light flux without shortening the life of the LEDs.

MODEL BASE REFERENCES

Model	For Lamp (W)	Holder	Finish	UV	UP	Description	Code*
SU 7	MR16 Max. 50 W - 12 V _{AC}	GU 5.3	Black BK9005	20	10	SU7SXNGTF0RRRR1NG00WGU3__NP_DDDDC3BK9005	50-23402

TRANSFORMER BASE REFERENCES

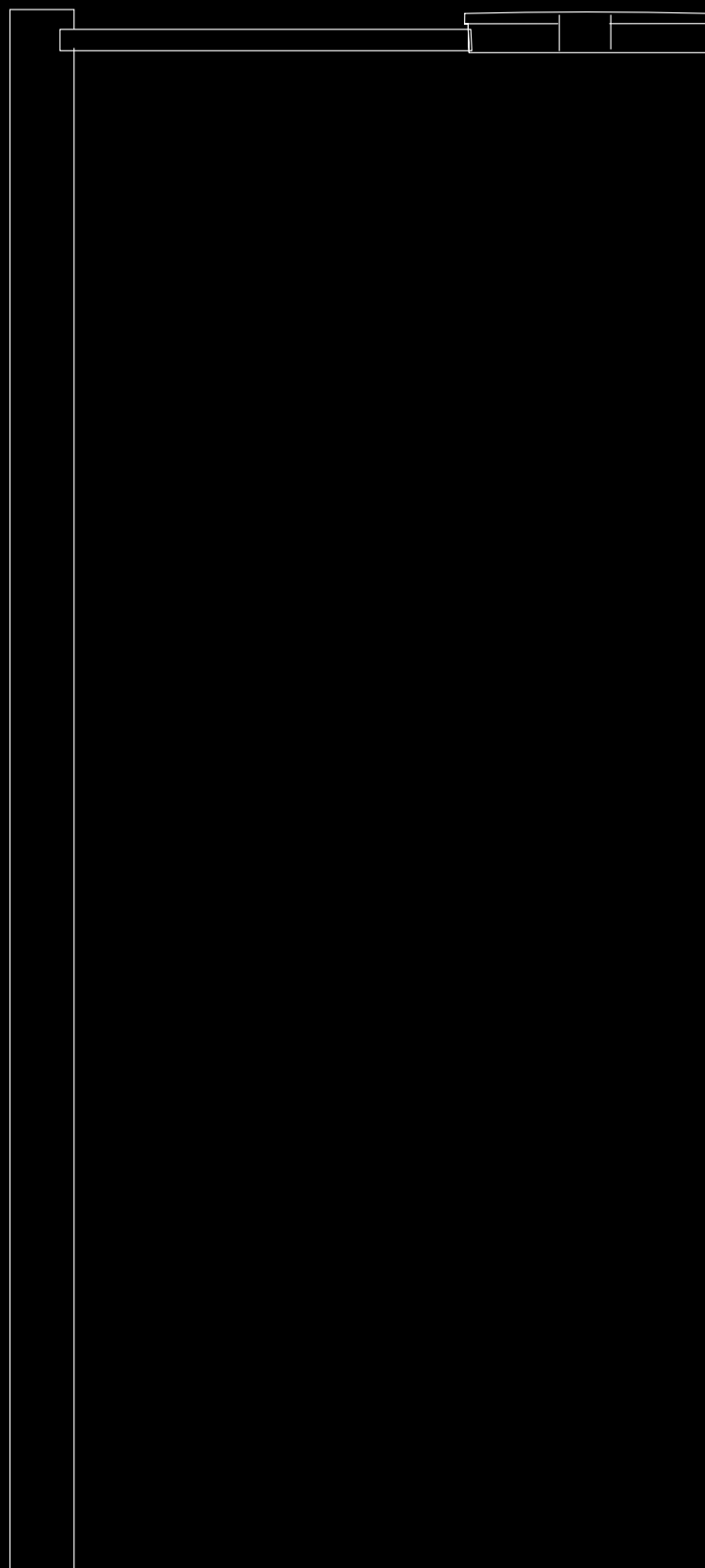
Model	Transformer	Enclosure	Protection	Dimensions	Description	Code
SU 7	Reducer Max. 50 W		IP20	43x175x37	ZZ TRANSFORMER IP20 SU	50-23420

For **SU7** single-rail reducing transformer with separate circuits and ground connection. To supply lamps placed on model 50-23402. Input voltage 230 V_{AC} – 50 Hz. Output voltage: 11.5 V_{AC} – 50 Hz. Maximum admissible power of 50 W. Indoor use, Class I. Not watertight.

ACCESSORIES / REPLACEMENTS SU 7

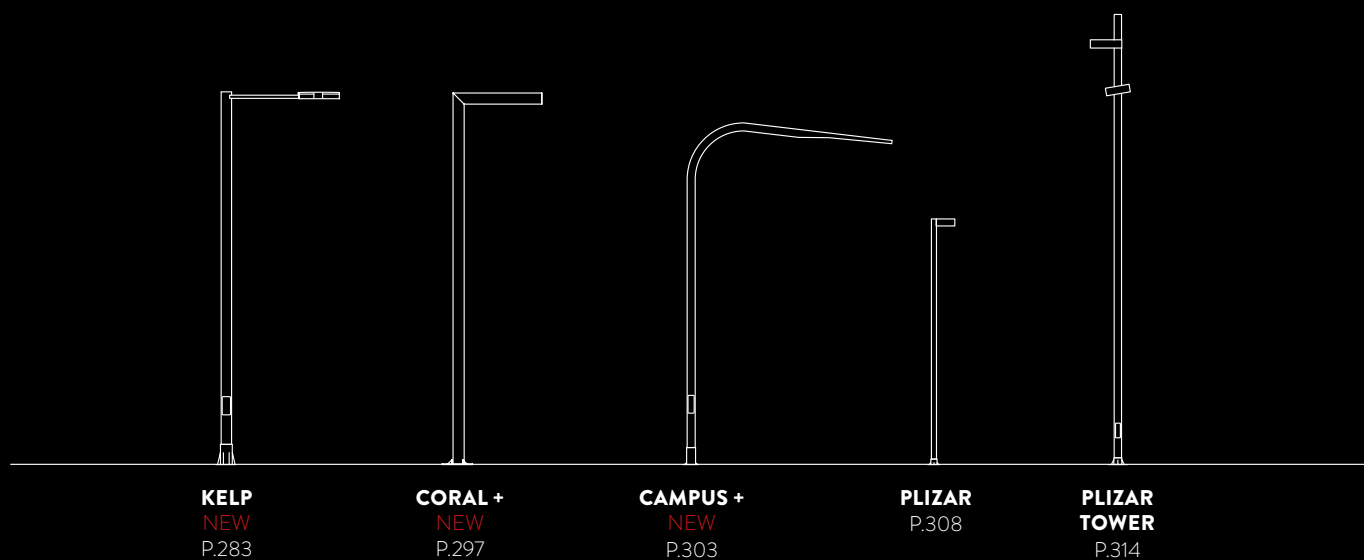
Description	Order code
Ring with die-cast aluminium upper cap	50-23406
Ring with die-cast aluminium protective grille	50-23408
Die-cast aluminium fastening stake	50-23404

* Lamp and transformer not included.

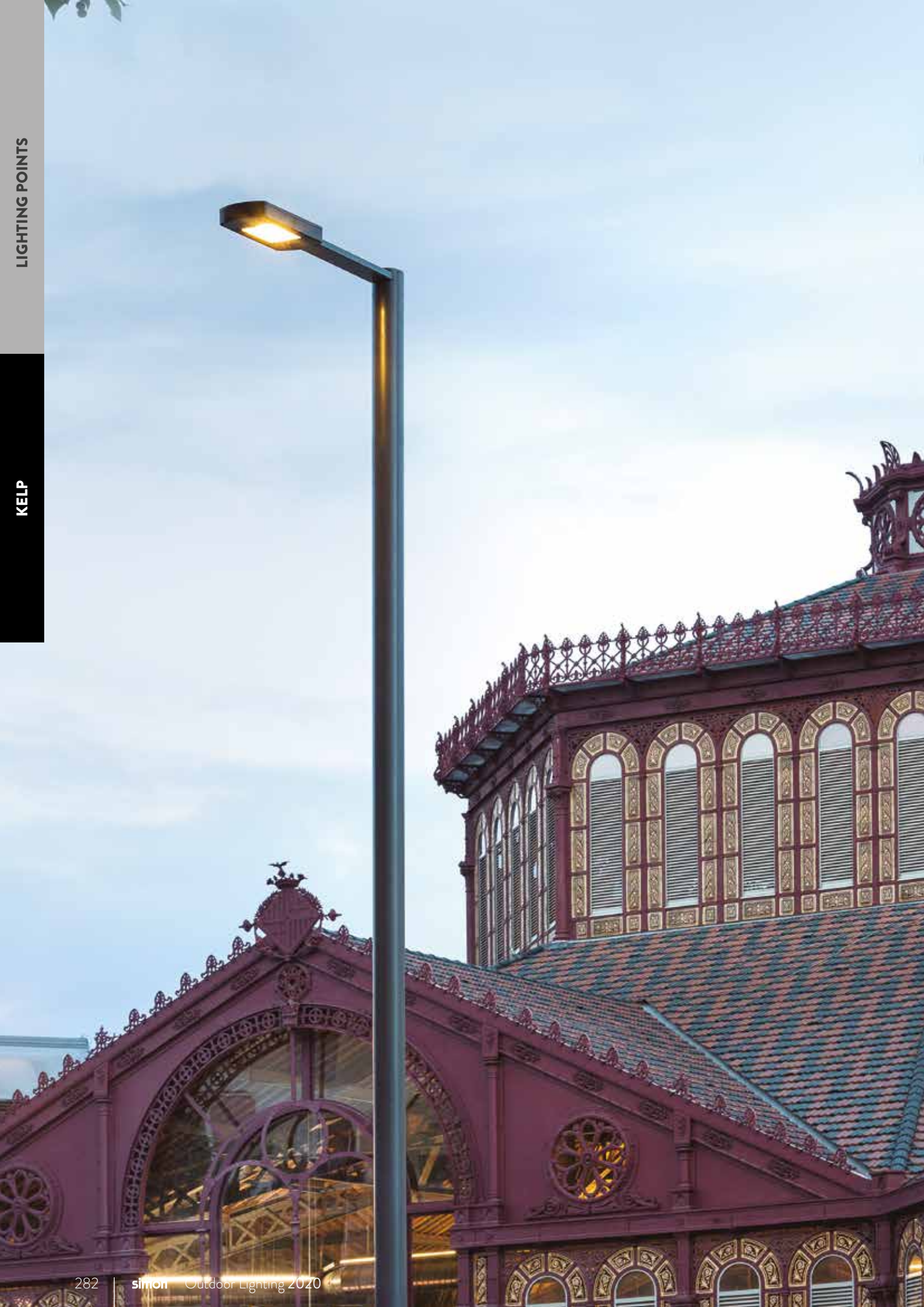


LIGHTING POINTS

ISTANIUM[®]



Simon's full high-performance urban proposal, with an innovative design and equipped with an advanced thermal dissipation system, offering multiple photometric distributions for the development of highly efficient and precise lighting projects.



KELP

MERAK / ALTAIR / WALL ARM

ISTANIUM^{LED}®

Complete the Merak and Altair Istanium LED ranges with the Kelp lighting point:

Direct arm-luminaire fastening system.
Integration into any type of urban environment.
Adaptable and updatable light group.
Systems for steel support protection.



Parking areas



Avenues



Streets



Pedestrian streets



Commercial areas



Parks / Gardens



Squares



Roundabouts / Intersections



Large areas

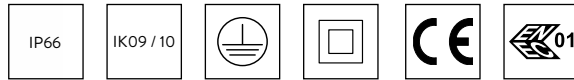


KELP MERAK / ALTAIR

ISTANIUM[®]

Simon KELP decorative lighting point, up to 9 m high, with cylindrical shaft and lateral luminaire fastening on arms up to 0.75 m long.

Luminaires:



Support:

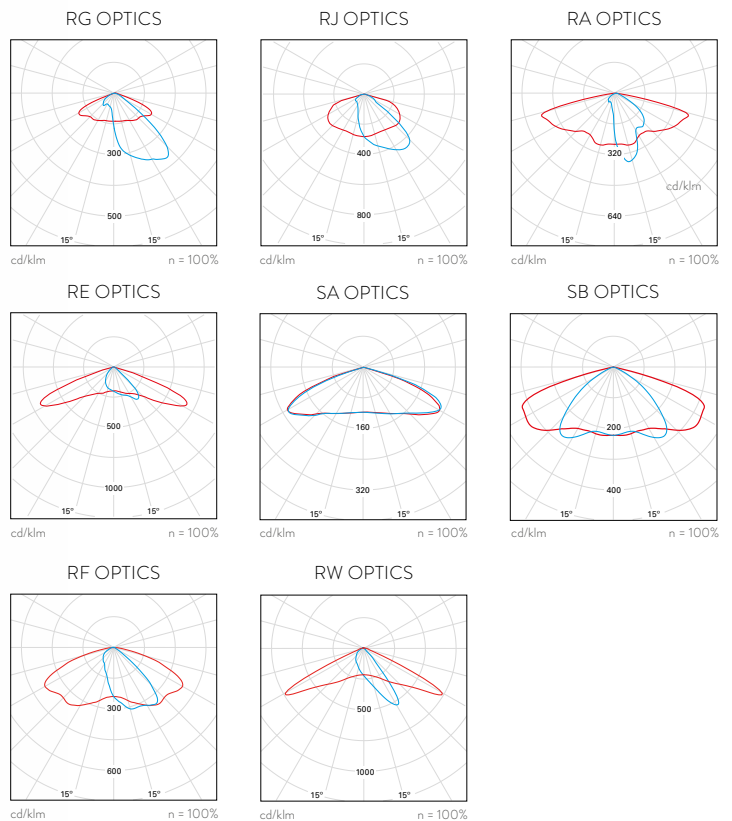


COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*

COLOUR RENDERING INDEX: >70

UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)

LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



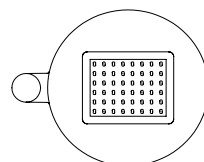
— C0 - C180 — C90 - C270

* Upon request ** Check other photometric distributions

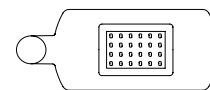
KELP FEATURES

MERAK / ALTAIR LUMINAIRE I STANIUM^{LED}

Configure your **KELP** lighting point with the con **Merak SXF** or **Altair IXF** Istanium LED road light luminaire. High-performance luminaires, with an innovative design and equipped with an advanced thermal dissipation system, offering multiple photometric distributions for the development of highly efficient and precise lighting projects.



MERAK



ALTAIR

SUPPORT

Supported by a flat flange plate with reinforcing ring and gusset, shaft and arm(s) made of S235JR-quality sheet carbon steel.

Flush trapdoor with interior reinforcement.

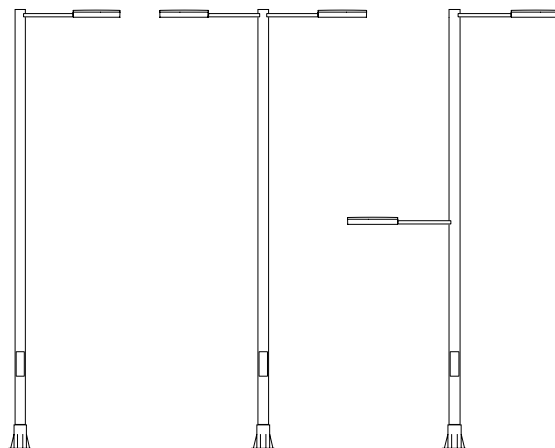
Lateral luminaire fastening via direct anchoring on the body, without coupling, Ø60 mm.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish and painted in Simon GYDECO colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.



model 100

model 200

model 210

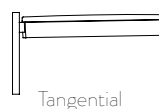
WALL ARM I STANIUM^{LED}

Simon KELP decorative wall arm, up to 1.5 m long, rectangular section, and lateral luminaire fastening.

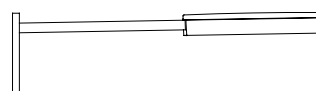
Support with wall fastening plate, arm and rod (according to model) made of S235JR quality carbon steel sheet.

Lateral luminaire fastening via direct anchoring on the body, without coupling, Ø60 mm.

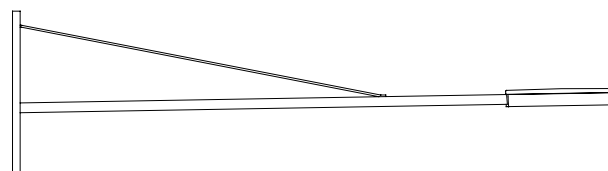
Hot dip galvanised finish and painted in Simon GYDECO colour. Allows Simon and RAL chart finishes, as well as other protective finishes.



Tangential



100 / 250 / 500 / 750 mm



1000 / 1500 mm

KELP MERAK ISTANIUM

Simon **KELP** decorative lighting point, up to 9 m high, with cylindrical shaft and lateral luminaire fastening on arms up to 0.75 m long. Supported by a flat flange plate with reinforcing ring and gusset, shaft and arm(s) made of S235JR-quality sheet carbon steel.

Flush trapdoor with interior reinforcement.

Lateral luminaire fastening via direct anchoring on the body, without coupling, Ø60 mm.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish and painted in Simon GYDECO colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Specific Simon MERAK LED decorative luminaire, size S, made of die-cast aluminium.

Flat cover with internal honeycomb LED cooling system, no visible fins. Access to the electro-optical group and maintenance from the upper part with opening by means of two levers, without tools. The electro-optical group is removable and upgradeable in a single piece, with a disconnecter for automatic disconnection and a three-guide alignment system to avoid incorrect assemblies.

6 mm thick flat transparent tempered glass diffuser to facilitate cleaning and avoid UV radiation on the optics. IP66 protection index for the complete luminaire, with pressure relief valve to keep the pressure constant and prevent moisture from entering, and an impact resistance rating of up to IK10.

Possibility of mounting up to ten multi-array optics. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

With **Class I** and **Class II** electronic control gear with 230 Vac / 50 Hz supply voltage. Allows additional protection against surges of 10 kV / 10 kA. With automatic disconnection when opening the gear compartment.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, by telemanagement with 1.10V or DALI input. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYDECO colour. Possibility of Simon and RAL chart finishes. Dimensions 425x63x425 mm.

ENEC certified luminaire.

LUMINAIRE

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	From IK09 to IK10
Body	Die-cast aluminium
Cover	Die-cast aluminium
Closure system	Levers made of die-cast aluminium, tool-free opening
Diffuser	Flat transparent shatter-proof tempered glass

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol

Luminaires supplied by electrical grid

Supply voltage	220-240 Vac			
Frequency	50 / 60 Hz			
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)			
Power factor (cos φ at max. charge)	≥0.95			
Luminaire electrical protection	Class I or Class II			
Power according to models***	16 LEDs	24 LEDs	40 LEDs	48 LEDs
Supply current				
HIGH EFFICIENCY	16 W	24 W	39 W	47 W
HIGH BALANCE	24 W	36 W	60 W	73 W
HIGH FLUX	32 W	49 W	81 W	97 W
VERY HIGH FLUX	50 W	75 W	-	-

FINISHES

Luminaire	Painted in GYDECO colour (Standard Paint) Simon Colours RAL chart colours
------------------	---

SUPPORT

FASTENING SYSTEMS

Luminaire fastening	Directly to arm, angled at 0°
Notes	Anchoring bolts and template provided

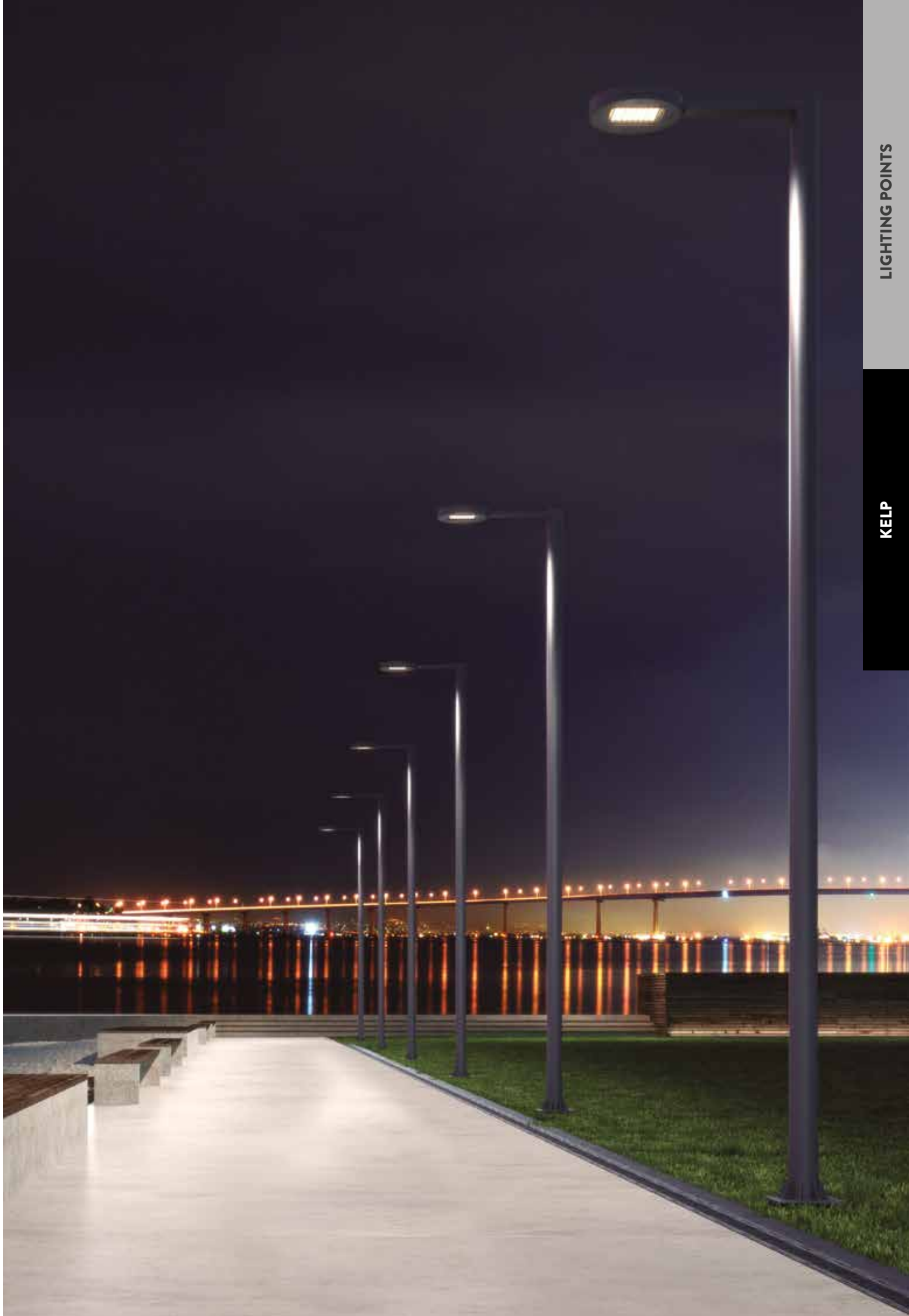
PHYSICAL FEATURES AND MATERIALS

IP	To achieve IP44, it is necessary to use the internal junction box with IP44 (not supplied with the pole).
Construction	Support manufactured in a single section
Shaft	Cylindrical
Arm	Rectangular section
Trapdoor	Flush
Arm	Structural steel sheet, S235JR quality
Arm trim	Die-cast aluminium
Shaft	Structural steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

FINISHES

Support	Galvanised and painted in GYDECO colour (Standard Paint) Simon Colours (Standard Paint / Seafrost Paint) RAL chart colours (Standard Paint / Seafrost Paint)
----------------	--

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.



KELP

KELP ALTAIR ISTANIUM®

Simon **KELP** decorative lighting point, up to 9 m high, with cylindrical shaft and lateral luminaire fastening on arms up to 0.75 m long. Supported by a flat flange plate with reinforcing ring and gusset, shaft and arm(s) made of S235JR-quality sheet carbon steel. Flush trapdoor with interior reinforcement.

Lateral luminaire fastening via direct anchoring on the body, without coupling, Ø60 mm.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish and painted in Simon GYDECO colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Specific Simon ALTAIR LED decorative luminaire, size I, made of die-cast aluminium.

Flat cover with internal honeycomb LED cooling system, no visible fins. Access to the electrical-optical group and maintenance via the top part, fastened with four captive screws that are invisible when installed. The electro-optic group is removable and upgradeable by means of a single piece, with a disconnection mechanism for automatic disconnection.

6 mm thick flat transparent tempered glass diffuser to facilitate cleaning and avoid UV radiation on the optics. IP66 protection index for the complete luminaire, with pressure relief valve to keep the pressure constant and prevent moisture from entering, and an impact resistance rating of up to IK10.

Possibility of mounting up to ten multi-array optics. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

With **Class I** and **Class II** electronic control gear with 230 Vac / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA. With automatic disconnection when opening the gear compartment.

Optional dimming without control line (self-dimming) 2N-. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYDECO colour. Possibility of Simon and RAL chart finishes. Dimensions 425x63x220 mm.

ENEC certified luminaire.

LUMINAIRE

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	From IK09 to IK10
Body	Die-cast aluminium
Cover	Die-cast aluminium
Closure system	Stainless steel screws
Diffuser	Flat transparent shatter-proof tempered glass

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C		
Dimming**	2N- Without control line 1N (100%) Without dimming		
	Luminaires supplied by electrical grid		
Supply voltage	220-240 Vac		
Frequency	50 / 60 Hz		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)		
Power factor (cos φ at max. charge)	≥0.95		
Luminaire electrical protection	Class I or Class II		
Power according to models***	12 LEDs	16 LEDs	24 LEDs
Supply current			
HIGH EFFICIENCY	12 W	16 W	24 W
HIGH BALANCE	18 W	24 W	36 W
HIGH FLUX	24 W	32 W	49 W
VERY HIGH FLUX	37 W	50 W	75 W

FINISHES

Luminaire	Painted in GYDECO colour (Standard Paint) Simon Colours RAL chart colours
------------------	---

SUPPORT

FASTENING SYSTEMS

Luminaire fastening	Directly to arm, angled at 0°
Notes	Anchoring bolts and template provided

PHYSICAL FEATURES AND MATERIALS

IP	To achieve IP44, it is necessary to use the internal junction box with IP44 (not supplied with the pole).
Construction	Support manufactured in a single section
Arm	Rectangular section
Shaft	Cylindrical
Trapdoor	Flush
Arm	Structural steel sheet, S235JR quality
Arm trim	Die-cast aluminium
Shaft	Structural steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

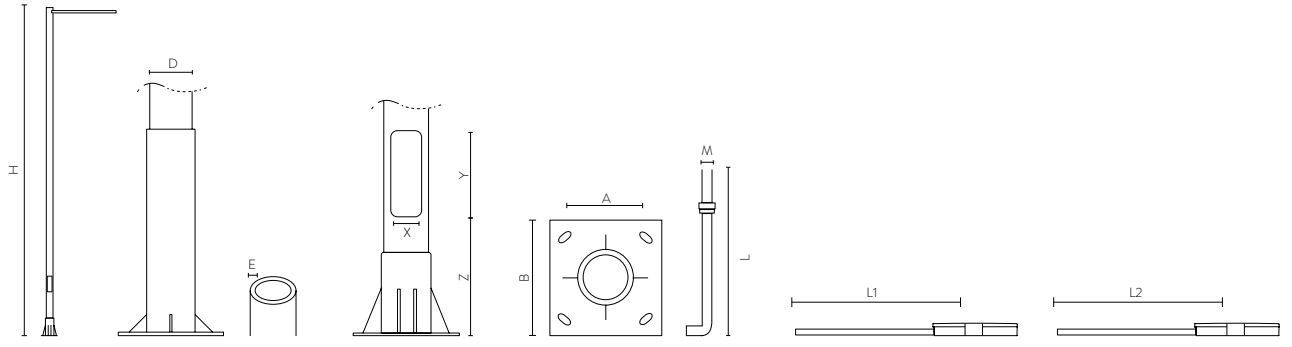
FINISHES

Support	Galvanised and painted in GYDECO colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)
----------------	--

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.



TECHNICAL INFORMATION (Units in mm)



Model	Height	Base	Thick-ness	Door			Flange plate		Bolts	1 st Arm		2 nd Arm	
	H	∅ D	E	X	Y	Z	A	B	M x L	H1	L1	H2	L2
100	4,000	127	3	100	300	700	210	300	M20 x 500	4,000	Tangential 250 / 500 / 750	-	-
	5,000	127	3	100	300	700	210	300	M20 x 500	5,000	Tangential 250 / 500 / 750	-	-
	6,000	127	3	100	300	700	300	400	M22 x 600	6,000	Tangential 250 / 500 / 750	-	-
	7,000	127	3	100	300	700	300	400	M22 x 600	7,000	Tangential 250 / 500 / 750	-	-
	8,000	152	4	100	300	700	300	400	M22 x 600	8,000	Tangential 250 / 500 / 750	-	-
	9,000	152	4	100	300	700	300	400	M22 x 600	9,000	Tangential 250 / 500 / 750	-	-
200	4,000	127	3	100	300	700	210	300	M20 x 500	4,000	Tangential 250 / 500 / 750	4,000	Tangential 250 / 500 / 750
	5,000	127	3	100	300	700	210	300	M20 x 500	5,000	Tangential 250 / 500 / 750	5,000	Tangential 250 / 500 / 750
	6,000	127	3	100	300	700	300	400	M22 x 600	6,000	Tangential 250 / 500 / 750	6,000	Tangential 250 / 500 / 750
	7,000	127	3	100	300	700	300	400	M22 x 600	7,000	Tangential 250 / 500 / 750	7,000	Tangential 250 / 500 / 750
	8,000	152	4	100	300	700	300	400	M22 x 600	8,000	Tangential 250 / 500 / 750	8,000	Tangential 250 / 500 / 750
	9,000	152	4	100	300	700	300	400	M22 x 600	9,000	Tangential 250 / 500 / 750	9,000	Tangential 250 / 500 / 750
210	5,000	127	3	100	300	700	210	300	M20 x 500	4,000	Tangential 250 / 500 / 750	5,000	Tangential 250 / 500 / 750
	6,000	127	3	100	300	700	300	400	M22 x 600	4,000 / 5,000	Tangential 250 / 500 / 750	6,000	Tangential 250 / 500 / 750
	7,000	127	3	100	300	700	300	400	M22 x 600	4,000 / 5,000 / 6,000	Tangential 250 / 500 / 750	7,000	Tangential 250 / 500 / 750
	8,000	152	4	100	300	700	300	400	M22 x 600	4,000 / 5,000 / 6,000 / 7,000	Tangential 250 / 500 / 750	8,000	Tangential 250 / 500 / 750
	9,000	152	4	100	300	700	300	400	M22 x 600	4,000 / 5,000 / 6,000 / 7,000 / 8,000	Tangential 250 / 500 / 750	9,000	Tangential 250 / 500 / 750

REGULATIONS AND CERTIFICATES



Light group according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581
Support according to: EN 40-5

Warranty

5 years for luminaires and light groups.

Supply and packaging

Pole and arms packed with foam reel protector and plate base with foam protector on edges

Maintenance luminaire

Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent.
Lubricate the sealing gaskets and replace them when they are cracked over time. Lubricate the closures and/or hinges of the moving parts.
Keep the thermal radiation surface clean to ensure proper dissipation and to not lose light flux without shortening the life of the LEDs.

WALL ARM

Simon **KELP** decorative wall arm, up to 1.5 m long, rectangular section, and lateral luminaire fastening. Support with wall fastening plate, arm and rod (according to model) made of S235JR quality carbon steel sheet. Lateral luminaire fastening via direct anchoring on the body, without coupling, Ø60 mm. Hot dip galvanised finish and painted in Simon GYDECO colour. Allows Simon and RAL chart finishes, as well as other protective finishes. Specific decorative luminaires: Simon MERAK LED, size S, and Simon ALTAIR LED, size L, made of die-cast aluminium. Flat cover with internal honeycomb LED cooling system, no visible fins. Access to the electrical-optical group and maintenance via the top part with opening by means of two levers, without tools, or fastened with four captive screws that are invisible when installed, according to luminaire model. The electro-optical group is removable and upgradeable in a single piece, with a disconnecter for automatic disconnection and a three-guide alignment system to avoid incorrect assemblies, according to luminaire model. 6 mm thick flat transparent tempered glass diffuser to facilitate cleaning and avoid UV radiation on the optics. IP66 protection index for the complete luminaire, with pressure relief valve to keep the pressure constant and prevent moisture from entering, and an impact resistance rating of up to IK10. Possibility of mounting up to ten multi-array optics. Anti-glare, truncated pyramid-shaped reflector, matt with light flux recovery. Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas. LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%. With **Class I** and **Class II** electronic control gear with 230 Vac / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA. With automatic disconnection when opening the gear compartment. Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input, according to luminaire model. Optional custom programming and maintenance of constant light output (CLO). Standard finish in Simon GYDECO colour. Possibility of Simon and RAL chart finishes. Dimensions 425x63x425 mm for MERAK luminaire and 425x63x220 mm for ALTAIR luminaire. ENEC certified luminaires.

LUMINAIRE

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	From IK09 to IK10
Body	Die-cast aluminium
Cover	Die-cast aluminium
Closure system	Levers made of die-cast aluminium, tool-free opening / Stainless steel screws
Diffuser	Flat transparent shatter-proof tempered glass

ELECTRICAL PARAMETERS *

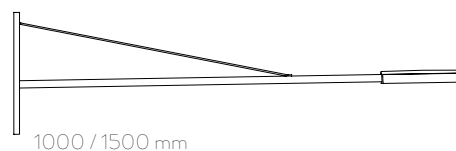
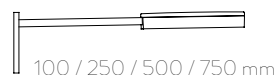
Temp.	-20 °C ... +35 °C			
	MERAK luminaire	ALTAIR luminaire		
Dimming**	2N- Without control line	2N- Without control line		
	2N+ With control line	1N (100%) Without dimming		
	CAD Cabinet amplitude dimming	1N (100%) Without dimming		
	1N (100%) Without dimming	1.10V Dimming through 1.10V input protocol		
	DALI Dimming through DALI input protocol			
	Luminaires supplied by electrical grid			
Supply voltage	220-240 Vac			
Frequency	50 / 60 Hz			
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)			
Power factor (cos φ at max. charge)	≥0.95			
Luminaire electrical protection	Class I or Class II			
Power according to models for MERAK luminaire***	16 LEDs	24 LEDs	40 LEDs	48 LEDs
Supply current				
HIGH EFFICIENCY	16 W	24 W	39 W	47 W
HIGH BALANCE	24 W	36 W	60 W	73 W
HIGH FLUX	32 W	49 W	81 W	97 W
VERY HIGH FLUX	50 W	75 W	-	-
Power according to models for ALTAIR luminaire***	12 LEDs	16 LEDs	24 LEDs	
Supply current				
HIGH EFFICIENCY	12 W	16 W	24 W	
HIGH BALANCE	18 W	24 W	36 W	
HIGH FLUX	24 W	32 W	49 W	
VERY HIGH FLUX	37 W	50 W	75 W	

SUPPORT

DIMENSIONS AND FASTENING SYSTEMS

Luminaire fastening Directly to arm, angled at 0°

Arm types



PHYSICAL FEATURES AND MATERIALS

Arm	Structural steel sheet, S235JR quality
Arm trim	Die-cast aluminium
Rod	Structural steel, S235JR quality
Fastening plate	Structural steel sheet, S235JR quality

FINISHES

Wall arm	Galvanised and painted in GYDECO colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)
Luminaires	Simon Colours RAL chart colours

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.

SUPPORT

Model	Pole height	Arm length	Arm assembly height	Description	L1	L2
100				Simon KELP lighting point with one arm, located at the top of the shaft		
200				Simon KELP lighting point with 2 arms, located at the top of the shaft, at the same height, opposite at 180°		
210				Simon KELP lighting point with 2 arms, the top arm located at the top of the shaft and the bottom arm mid-height, opposite at 180°		
04SP				4 m height, flat base plate with reinforcing ring and flush trapdoor according to measurements		
05SP				5 m height, flat base plate with reinforcing ring and flush trapdoor according to measurements		
06SP				6 m height, flat base plate with reinforcing ring and flush trapdoor according to measurements		
07SP				7 m height, flat base plate with reinforcing ring and flush trapdoor according to measurements		
08SP				8 m height, flat base plate with reinforcing ring and flush trapdoor according to measurements		
09SP				9 m height, flat base plate with reinforcing ring and flush trapdoor according to measurements		
		T		Tangential arm		
		R		Reduced arm 250 mm long		
		S		Short arm 500 mm long		
		M		Medium arm 750 mm long		
			4M	Arm 4 m high		
			5M	Arm 5 m high		
			6M	Arm 6 m high		
			7M	Arm 7 m high		
			8M	Arm 8 m high		
			9M	Arm 9 m high		

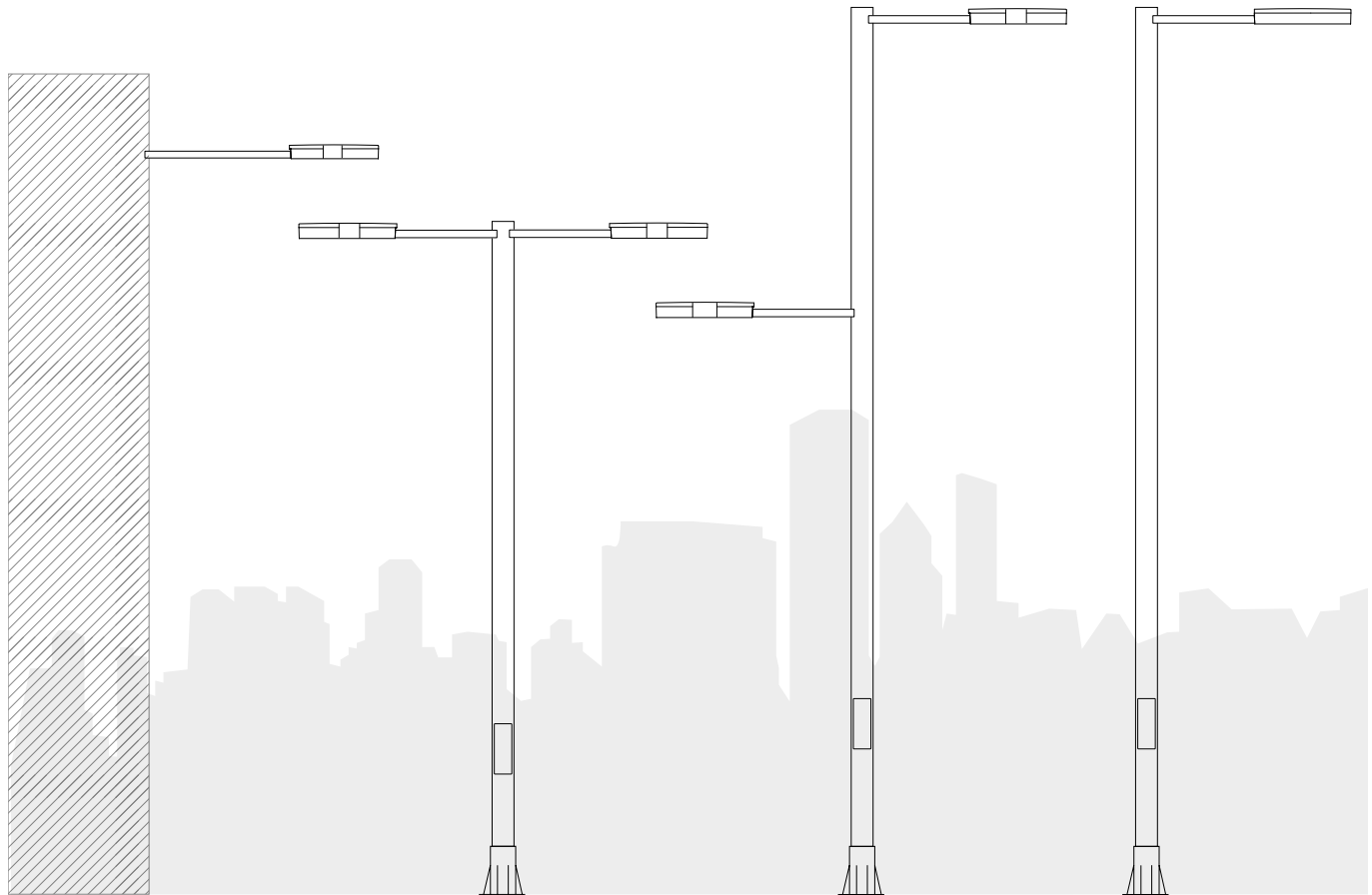
LUMINAIRE

Model	Optics	Colour Temp.	Flux	Gear	Dimming	Protection	Finish	Description	L1	L2
ALB								Simon ALTAIR luminaire for KELP, with IK10 protection		
ALG								Simon ALTAIR luminaire for KELP, with IK09 protection		
MEB								Simon MERAK luminaire for KELP, with IK10 protection		
MEG								Simon MERAK luminaire for KELP, with IK09 protection		
	RG_							G Type Front Road Light Optics		
	RJ_							J Type Front Road Light Optics		
	RA_							A Type Extended Road Light Optics		
	RE_							E Type Extended Road Light Optics		
	SA_							A Type Symmetric Optics		
	SB_							B Type Symmetric Optics		
	RF_							F Type Front Road Light Optics		
	RW_							Wide Road Light Optics		
	<input type="radio"/> NDL							Neutral daylight - 4000 K		
	<input type="radio"/> WDL							Warm daylight - 3000 K		
	<input type="radio"/> SDL							Soft daylight - 2700 K		
		_12W350						12 W 350 mA 1,970 lm @ 4,000 K 12 LEDs ALTAIR Istanium® LED luminaire		
		_16W350						16 W 350 mA 2,550 lm @ 4,000 K 16 LEDs MERAK Istanium® LED luminaire		
		_18W530						18 W 530 mA 2,790 lm @ 4,000 K 16 LEDs ALTAIR Istanium® LED luminaire		
		_24W530						24 W 530 mA 3,630 lm @ 4,000 K 16 LEDs MERAK Istanium® LED luminaire		
		_24W700						24 W 700 mA 3,530 lm @ 4,000 K 12 LEDs ALTAIR Istanium® LED luminaire		
		_32W700						32 W 700 mA 4,520 lm @ 4,000 K 16 LEDs MERAK Istanium® LED luminaire		
		_32W700						32 W 700 mA 4,560 lm @ 4,000 K 16 LEDs ALTAIR Istanium® LED luminaire		
		_36W530						36 W 530 mA 5,300 lm @ 4,000 K 24 LEDs MERAK Istanium® LED luminaire		
		_37W_1K						37 W 1050 mA 4,870 lm @ 4,000 K 12 LEDs ALTAIR Istanium® LED luminaire		
		_49W700						49 W 700 mA 6,560 lm @ 4,000 K 24 LEDs MERAK Istanium® LED luminaire		
		_50W_1K						50 W 1,050 mA 6,110 lm @ 4,000 K 16 LEDs ALTAIR Istanium® LED luminaire		
		_75W_1K						75 W 1,050 mA 8,730 lm @ 4,000 K 24 LEDs MERAK Istanium® LED luminaire		
		_81W700						81 W 700 mA 10,650 lm @ 4,000 K 40 LEDs MERAK Istanium® LED luminaire		
		_97W700						97 W 700 mA 12,690 lm @ 4,000 K 48 LEDs MERAK Istanium® LED luminaire		
				IA23_				Electronic control gear at 230 V _{AC} 50/60 Hz, standard protection against 6 kV power surges		
				IA23S				Electronic control gear at 230 V _{AC} 50/60 Hz, additional protection against 10 kV power surges		
					2N_			Dimming without control line (self-dimming)		
					2N+			Dimming with control line*		
					1N_			Without dimming (on/off)		
					CAD_			Cabinet amplitude dimming (electrical box dimmer)*		
					1-10			Dimming through 1.10 V input protocol*		
					DALI			Dimming through DALI input protocol*		
						C1		Class 1 Luminaire electrical protection		
						C2		Class 2 Luminaire electrical protection		
						GYDECO		Standard finish in Simon Decorative Grey		
						*****		Finish in Simon colours (see page 514)		
						*****		Finish in RAL classic chart colours		

 CONFIGURE YOUR KELP WALL ARM

Model	Arm	Arm length	Optics	Colour Temp.	Flux	Gear	Dimming	Protection	Finishes	Description
KEG KEB										Simon ALTAIR luminaire for KELP, with IK10 protection
										Simon ALTAIR luminaire for KELP, with IK09 protection
	MWA AWA									Simon MERAK Istanium® LED luminaire, size S, flat cover
										Simon ALTAIR Istanium® LED luminaire, size I, flat cover
		TA_ 25_ 50_ 75_ A5_								Tangential arm Arm 250 mm long Arm 500 mm long Arm 750 mm long Arm 1500 mm long with rod
			RG_ RJ_ RA_ RE_ SA_ SB_ RF_ RW_							G Type Front Road Light Optics J Type Front Road Light Optics A Type Extended Road Light Optics, E Type Extended Road Light Optics A Type Symmetric Optics, B Type Symmetric Optics F Type Front Road Light Optics Wide Road Light Optics
				<input type="radio"/> NDL <input type="radio"/> WDL <input type="radio"/> SDL						Neutral daylight - 4,000 K Warm daylight – 3,000 K Soft daylight - 2,700 K
					_12W350 _16W350 _18W530 _24W530 _24W700 _32W700 _36W530 _37W_1K _49W700 _50W_1K _75W_1K _81W700 _97W700					12 W 350 mA 1,970 lm @ 4,000 K 12 LEDs ALTAIR Istanium® LED luminaire 16 W 350 mA 2,550 lm @ 4,000 K 16 LEDs MERAK Istanium® LED luminaire 18 W 530 mA 2,790 lm @ 4,000 K 16 LEDs ALTAIR Istanium® LED luminaire 24 W 530 mA 3,630 lm @ 4,000 K 16 LEDs MERAK Istanium® LED luminaire 24 W 700 mA 3,530 lm @ 4,000 K 12 LEDs ALTAIR Istanium® LED luminaire 32 W 700 mA 4,520 lm @ 4,000 K 16 LEDs MERAK Istanium® LED luminaire 32 W 700 mA 4,560 lm @ 4,000 K 16 LEDs ALTAIR Istanium® LED luminaire 36 W 530 mA 5,300 lm @ 4,000 K 24 LEDs MERAK Istanium® LED luminaire 37 W 1050 mA 4,870 lm @ 4,000 K 12 LEDs ALTAIR Istanium® LED luminaire 49 W 700 mA 6,560 lm @ 4,000 K 24 LEDs MERAK Istanium® LED luminaire 50 W 1,050 mA 6,110 lm @ 4,000 K 16 LEDs ALTAIR Istanium® LED luminaire 75 W 1,050 mA 8,730 lm @ 4,000 K 24 LEDs MERAK Istanium® LED luminaire 81 W 700 mA 10,650 lm @ 4,000 K 40 LEDs MERAK Istanium® LED luminaire 97 W 700 mA 12,690 lm @ 4,000 K 48 LEDs MERAK Istanium® LED luminaire
										IA23_ IA23S
										Electronic control gear at 230 Vac 50/60 Hz, standard protection against 6 kV power surges Electronic control gear at 230 Vac 50/60 Hz, additional protection against 10 kV power surges
							2N_ 2N+_ 1N_ CAD_ 1-10 DALI			Dimming without control line (self-dimming) Dimming with control line* Without dimming (on/off) Cabinet amplitude dimming (electrical box dimmer)* Dimming through 1.10 V input protocol* Dimming through DALI input protocol*
								C1 C2		Class 1 Luminaire electrical protection Class 2 Luminaire electrical protection
									GYDECO ***** *****	Standard finish in Simon Decorative Grey Finish in Simon colours (see page 514) Finish in RAL classic chart colours

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.
* Model only available with MERAK Istanium® LED luminaire.



KELP MERAK WALL ARM

KELP MERAK 200




KELP MERAK 210

KELP ALTAIR 100

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

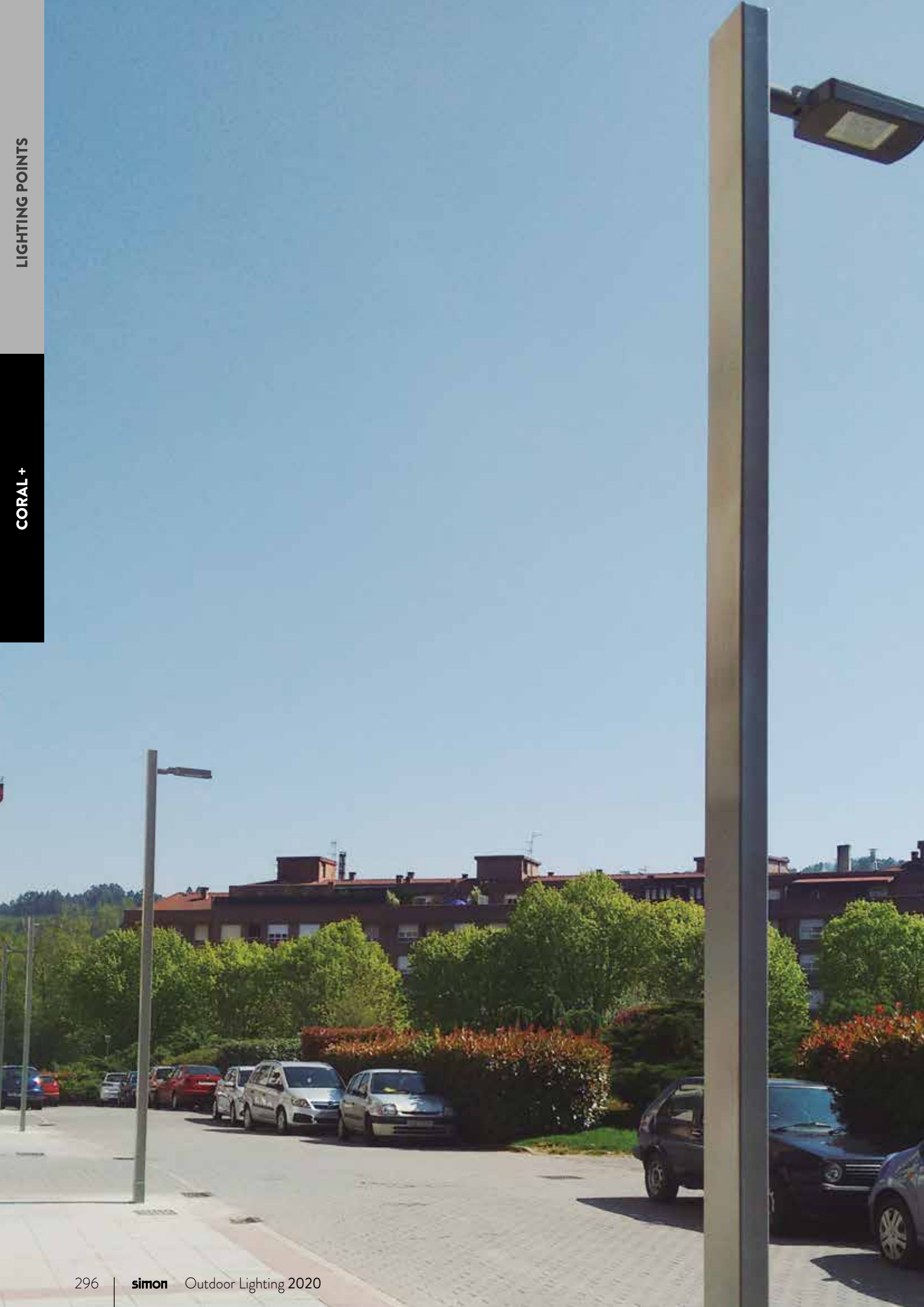
Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard Paint Finish: hot dip galvanised** and painted Average durability in corrosive environment C4.	✓	✓	✓
Seafrost Paint Finish: hot dip galvanised** and painted High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively





CORAL +

ISTANIUM^{LED}®

Simon CORAL+ LED decorative lighting point, up to 6 m high, with rectangular shaft and lateral luminaire fastening for arm(s) up to 1.2 m long, with integrated light group.



Streets



Pedestrian streets



Commercial areas



Parks / Gardens



Squares



Roundabouts / Intersections

CORAL +

ISTANIUM[®]

Simon CORAL+ LED decorative lighting point, up to 6 m high, with rectangular shaft and lateral luminaire fastening for arm(s) up to 1.2 m long, with integrated light group.

Light group:

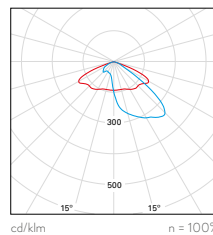


Support:

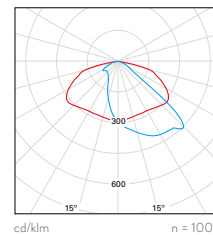


COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h

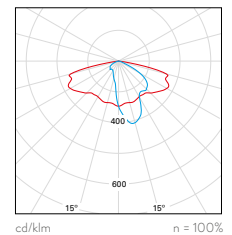
RG OPTICS



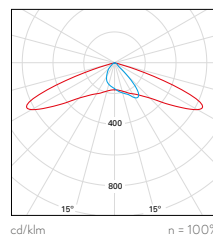
RJ OPTICS



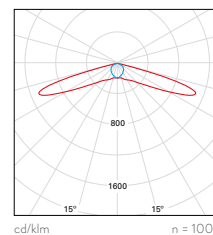
RA OPTICS



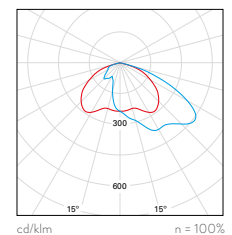
RE OPTICS



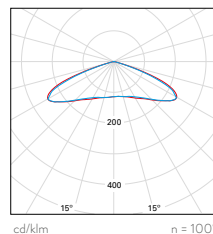
E1 OPTICS



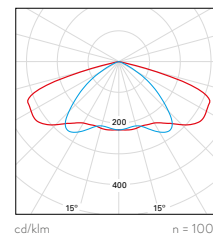
AE OPTICS



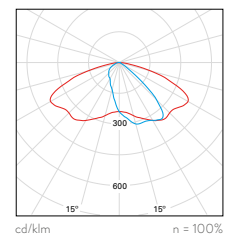
SA OPTICS



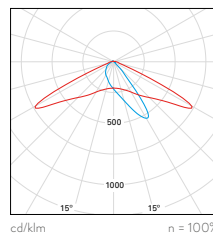
SB OPTICS



RF OPTICS



RW OPTICS



— C0 - C180 — C90 - C270

* Upon request

** Check other photometric distributions

Simon **CORAL+ LED** decorative lighting point, up to 6 m high, with rectangular shaft and lateral luminaire fastening for arm(s) up to 1.2 m long, with integrated light group.

Supported by a flat flange plate gussets, shaft and arm(s) made of S235JR- quality carbon steel sheet.

Flush trapdoor with interior reinforcement.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish and painted in Simon CGCLAS colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base.

Pole with CE- certified constancy of performance.

Specific light group integrated into S235JR- quality carbon steel arm.

Internal refrigeration system through fins.

High resistance flat transparent PMMA diffuser to facilitate cleaning and avoid UV radiation on the optics. **IP66** protection rating for the Istanium LED optical group and **IK09** impact resistance rating.

Possibility of mounting up to ten multi- array optics.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the light group is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1%.

With **Class I** and **Class II** electronic control gear with 230 V_{ac} / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input, according to luminaire model. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon CGCLAS colour.

LIGHT GROUP

PHYSICAL FEATURES AND MATERIALS

IP	Optical group IP66 Electric group IP44
IK	IK09
Closure system	With stainless steel screws
Diffuser	Flat PMMA with high impact resistance

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C			
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol			
	Luminaires supplied by electrical grid			
Supply voltage	220-240 V _{ac}			
Frequency	50 / 60 Hz			
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)			
Power factor (cos φ at max. charge)	≥0.95			
Luminaire electrical protection	Class I or Class II			
Power according to models***	24 LEDs	36 LEDs	48 LEDs	60 LEDs
Supply current	2 module	3 module	4 module	5 module
HIGH EFFICIENCY	24 W	35 W	47 W	59 W
HIGH BALANCE	36 W	54 W	73 W	91 W
HIGH FLUX	49 W	73 W	-	-

REGULATIONS AND CERTIFICATES



Light group according to: EN 62031 / EN 62471
Support according to: EN 40-5

Warranty 5 years for luminaires and light groups.

Supply and packaging Pole and arms packed with foam reel protector and plate base with foam protector on edges

Maintenance luminaire Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent.
Lubricate the sealing gaskets and replace them when they are cracked over time. Lubricate the closures and/or hinges of the moving parts.
Keep the thermal radiation surface clean to ensure proper dissipation and to not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.

SUPPORT

FASTENING SYSTEMS

Luminaire fastening	Integrated into arm, angled at 0°
Notes	Anchoring bolts and template provided

PHYSICAL FEATURES AND MATERIALS

IP	To achieve IP44, it is necessary to use the internal junction box with IP44 (not supplied with the pole).
Construction	Made up of shaft and arm(s)
Arm	Rectangular section
Shaft	Rectangular section
Trapdoor	Flush
Arm	Structural steel sheet, S235JR quality
Shaft	Structural steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality and gussets

FINISHES

Arm	Galvanised and painted in CGCLAS (Standard Paint)
Shaft	Galvanised and painted in CGCLAS (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

SUPPORT

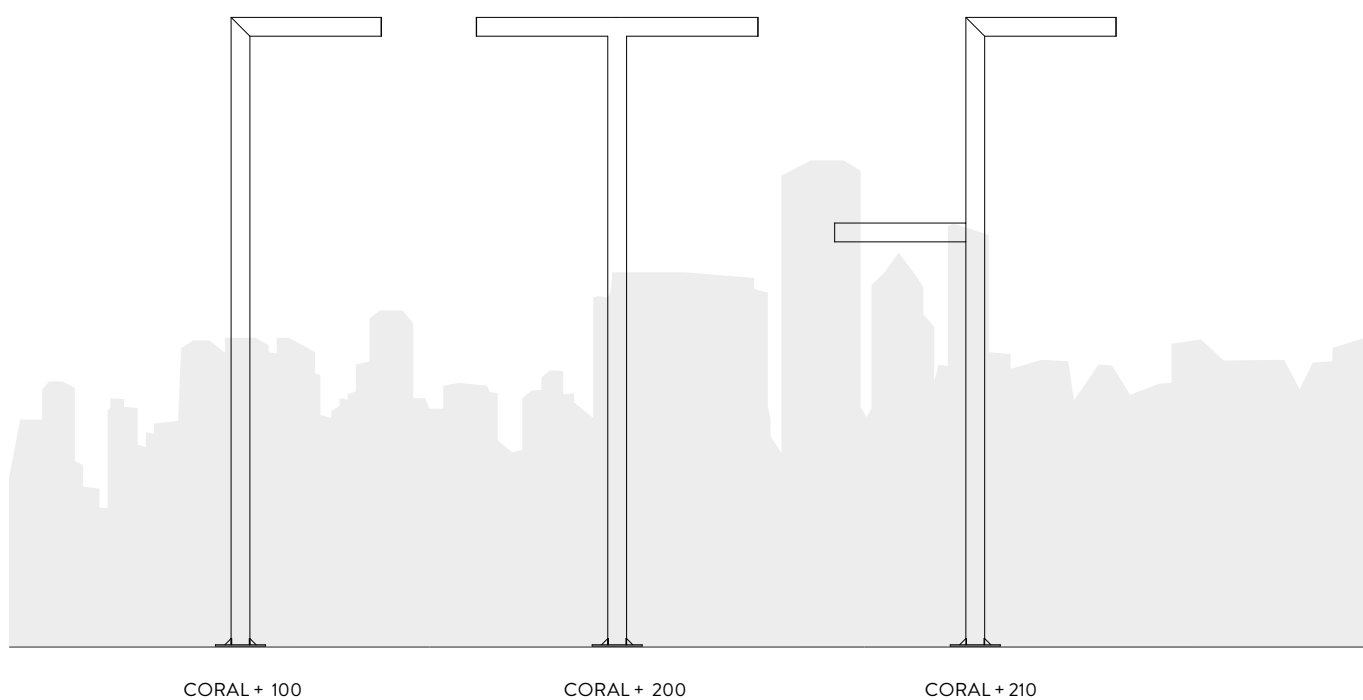
Model	Pole height*	Arm assembly height	Description	L1	L2
100			SIMON CORAL+ lighting point with one arm, located at the top of the shaft		
200			SIMON CORAL+ lighting point with two arms, located at the top of the shaft, at the same height, opposite at 180°		
210			SIMON CORAL+ lighting point with two arms, the top arm located at the top of the shaft and the bottom arm mid-height, opposite at 180°		
	04SP		4 m height, flat base plate and flush trapdoor according to measurements		
	05SP		5 m height, flat base plate and flush trapdoor according to measurements		
	06SP		6 m height, flat base plate and flush trapdoor according to measurements		
		4M	Arm 4 m high		
		5M	Arm 5 m high		
		6M	Arm 6 m high		

LIGHT GROUP

Optics	Colour Temp.	Flux*	Gear	Dimming*	Protection	Finish	Description	L1	L2
RG_							G Type Front Road Light Optics		
RJ_							J Type Front Road Light Optics		
RA_							A Type Extended Road Light Optics		
RE_							E Type Extended Road Light Optics		
E1							1 Type Front Road Light Optics		
AE							E Type Asymmetric Optics		
SA_							A Type Symmetric Optics		
SB_							B Type Symmetric Optics		
RF_							F Type Front Road Light Optics		
RW_							Wide Road Light Optics		
<input type="radio"/>	NDL						Neutral daylight - 4,000 K		
<input type="radio"/>	WDL						Warm daylight – 3,000 K		
<input type="radio"/>	SDL						Soft daylight - 2,700 K		
		_24W350					24 W 350 mA	3,540 lm @ 4,000 K	24 LEDs
		_36W530					36 W 530 mA	4,960 lm @ 4,000 K	24 LEDs
		_49W700					49 W 700 mA	6,330 lm @ 4,000 K	24 LEDs
		_54W530					54 W 530 mA	7,390 lm @ 4,000 K	36 LEDs
		_73W700					73 W 700 mA	9,300 lm @ 4,000 K	36 LEDs
		_91W530					91 W 530 mA	12,340 lm @ 4,000 K	60 LEDs
			IA23_				Electronic control gear at 230 V _{ac} 50/60 Hz, standard protection against 6 kV power surges		
			IA23S				Electronic control gear at 230 V _{ac} 50/60 Hz, additional protection against 10 kV power surges		
				2N-			Dimming without control line (self-dimming)		
				2N+			Dimming with control line		
				1N_			Without dimming (on/off)		
				CAD_			Cabinet amplitude dimming (electrical box dimmer)		
				1-10			Dimming through 1.10 V input protocol		
				DALI			Dimming through DALI input protocol		
					C1		Class 1 Luminaire electrical protection		
					C2		Class 2 Luminaire electrical protection		
						CGCLAS	Standard finish in Simon Forged Sand Blasted Light Grey		
						*****	Finish in Simon colours (see page 514)		
						*****	Finish in RAL classic chart colours		

* Check other options.

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



CORAL + 100

CORAL + 200

CORAL + 210

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*	Acid-less protection	Stick-less protection	Draw-less protection	
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944. ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



CAMPUS +

ISTANIUM^{LED}®

Simon CAMPUS+ LED decorative lighting point, up to 7.5 m high, with circular shaft and lateral luminaire fastening for arm with an overhang of up to 4.7 m, with integrated light group.



Streets



Pedestrian streets



Commercial areas



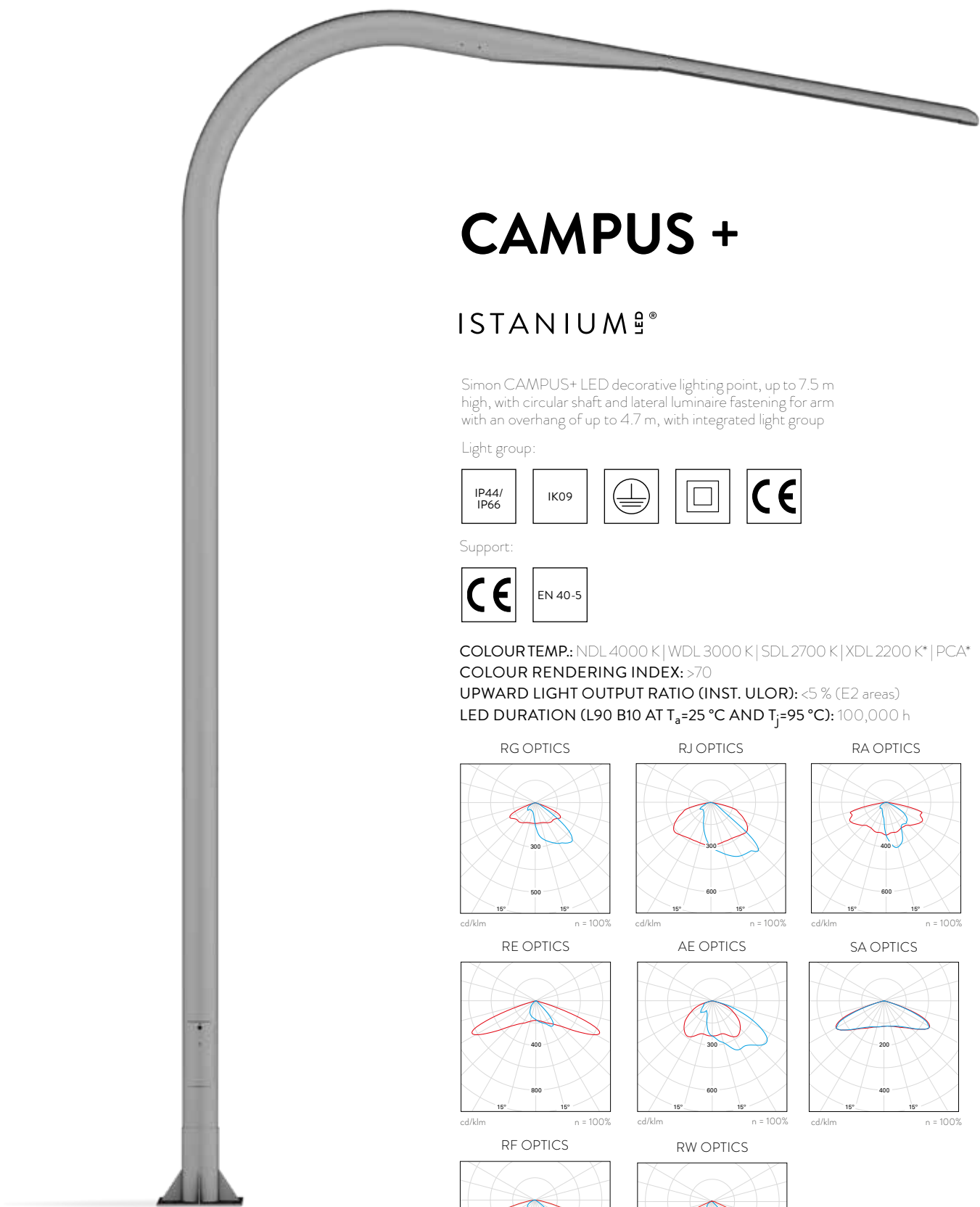
Parks / Gardens



Squares



Roundabouts / Intersections



CAMPUS +

ISTANIUM[®]

Simon CAMPUS+ LED decorative lighting point, up to 7.5 m high, with circular shaft and lateral luminaire fastening for arm with an overhang of up to 4.7 m, with integrated light group

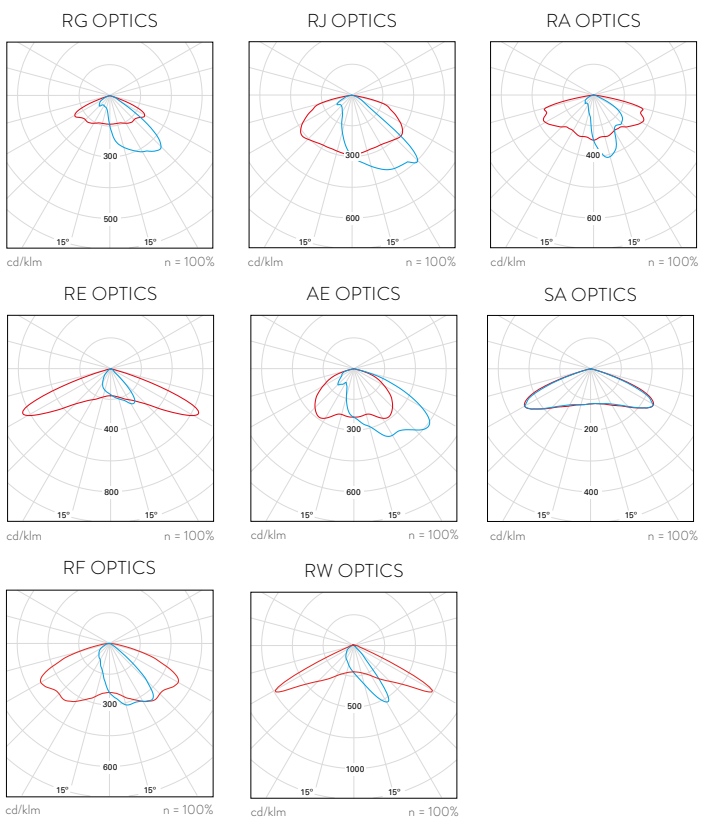
Light group:



Support:



COLOUR TEMP.: ND L 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <5 % (E2 areas)
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270

* Upon request ** Check other photometric distributions

Simon **CAMPUS+ LED** decorative lighting point, up to 7.5 m high, with circular shaft and lateral luminaire fastening for arm with an overhang of up to 4.7 m, with integrated light group.

Supported by a flat flange plate with reinforcing ring and gusset, shaft and arm made of S235JR-quality sheet carbon steel.

Flush trapdoor with interior reinforcement.

Light group lateral fastening directly to arm angled at -10° .

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish and painted in Simon CGCLAS colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base.

Pole with CE-certified constancy of performance.

Specific S235JR-quality carbon steel light group.

Internal refrigeration system through fins.

High resistance flat transparent PMMA diffuser to facilitate cleaning and avoid UV radiation on the optics. **IP66** protection rating for the Istanium LED optical group and **IK09** impact resistance rating.

Possibility of mounting up to ten multi-array optics.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the light group is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 5%.

With **Class I** and **Class II** electronic control gear with 230 VAC / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input, according to luminaire model. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon CGCLAS colour and lower trim in Simon GY7035 colour.

LIGHT GROUP

PHYSICAL FEATURES AND MATERIALS

IP	Optical group IP66 Electric group IP44
IK	IK09
Body	Carbon steel sheet, S235JR quality
Closure system	With stainless steel screws
Diffuser	High-strength flat transparent PMMA

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol
	Luminaires supplied by electrical grid
Supply voltage	220-240 VAC
Frequency	50 / 60 Hz
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)
Power factor (cos φ at max. charge)	≥0.95
Luminaire electrical protection	Class I or Class II
Power according to models***	72 LEDs
Supply current	7 module
HIGH EFFICIENCY	71 W
HIGH BALANCE	109 W
HIGH FLUX	-

REGULATIONS AND CERTIFICATES



Light group according to: EN 62031 / EN 62471
Support according to: EN 40-5

Warranty 5 years for luminaires and light groups.

Supply and packaging Luminaire packed with bubble wrap. Pole packed with foam reel protector and base plate with foam protector on edges.

Maintenance luminaire Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent.

Lubricate the sealing gaskets and replace them when they are cracked over time. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to ensure proper dissipation and not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** Power values have a tolerance of ±7%.

SUPPORT

FASTENING SYSTEMS

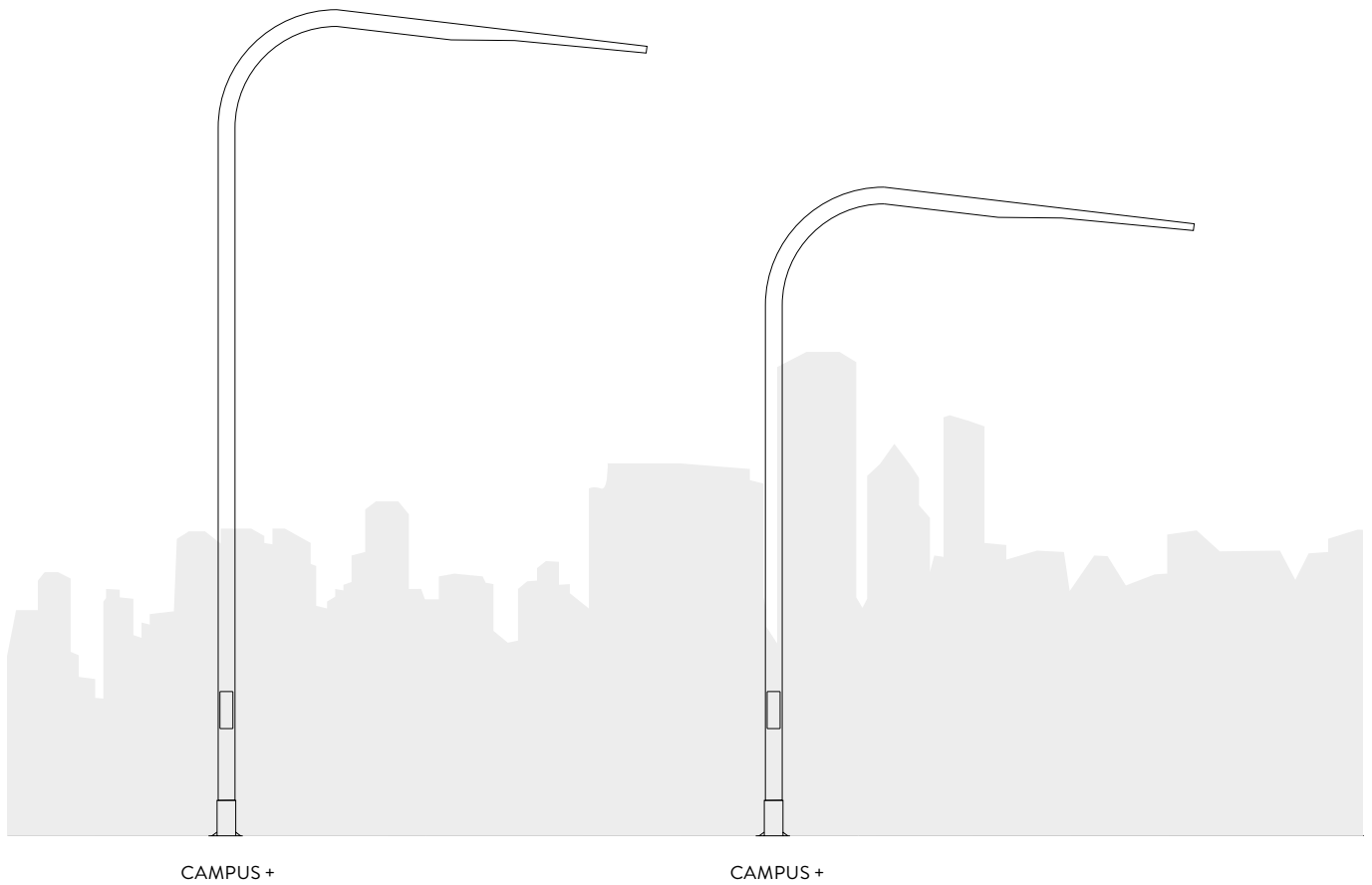
Luminaire fastening	Lateral fastening through arm and angled at -10°
Notes	Anchoring bolts and template provided

PHYSICAL FEATURES AND MATERIALS

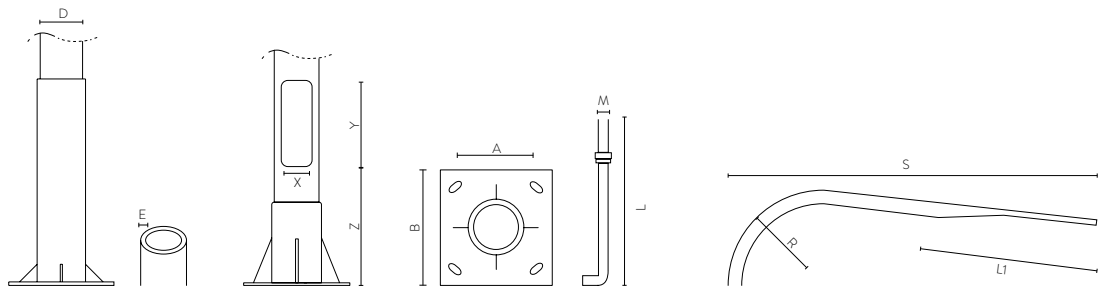
IP	To achieve IP44, it is necessary to use the internal junction box with IP44 (not supplied with the pole).
Construction	Made up of shaft and arm
Shaft	Cylindrical
Trapdoor	Flush
Arm	Structural steel sheet, S235JR quality
Shaft	Structural steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

FINISHES

Light group	Galvanised and painted in CGCLAS / GY7035(Standard Paint)
Support	Galvanised and painted in CGCLAS / GY7035(Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)






TECHNICAL INFORMATION (Units in mm)



Model	Height	Base	Thickness	Door			Flange plate		Bolts	Arm			
	H	∅ D		E	X	Y	Z	A		B	M x L	H1	L1
100	5,700	168	4	120	300	550	300	400	M22 x 600	5,700	2,000	3,300	1,000
	7,500	168	4	120	300	550	300	400	M22 x 600	7,500	2,500	4,700	1,400

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*		 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafrost Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



CONFIGURE YOUR CAMPUS+ LIGHTING POINT

Model	Optics	Colour Temp.	Flux	Gear	Dimming	Protection	Finish	Description
CMP10								Simon CAMPUS+ Istanium® LED lighting point, 5.7 m high, trapdoor and flat base plate with gussets according to measurements
CMP10075SP								Simon CAMPUS+ Istanium® LED lighting point, 7.5 m high, trapdoor and flat base plate with gussets according to measurements
	RG_ RJ_ RA_ RE_ AE_ SA_ RF_ RW_							G Type Front Road Light Optics J Type Front Road Light Optics A Type Extended Road Light Optics E Type Extended Road Light Optics E Type Asymmetric Optics A Type Symmetric Optics F Type Front Road Light Optics Wide Road Light Optics
	<input type="radio"/> NDL <input type="radio"/> WDL <input type="radio"/> SDL							Neutral daylight - 4,000 K Warm daylight – 3,000 K Soft daylight - 2,700 K
			_71W350 109W530					71 W 350 mA 10,610 lm @ 4,000K 72 LEDs 109 W 530 mA 14,590 lm @ 4,000K 72 LEDs
				IA23 IA23S				Electronic control gear at 230 Vac 50/60 Hz, standard protection against 6 kV power surges Electronic control gear at 230 Vac 50/60 Hz, additional protection against 10 kV power surges
					2N- 2N+ 1N CAD 1-10 DALI			Dimming without control line (self-dimming) Dimming with control line* Without dimming (on/off) Cabinet amplitude dimming (electrical box dimmer)* Dimming through 1.10 V input protocol Dimming through DALI input protocol
						C1 C2		Class 1 Luminaire electrical protection Class 2 Luminaire electrical protection
							CGCLAS ***** *****	Forged Sand Blasted Light Grey Finish Finish in Simon Lighting colours Finish in RAL classic chart colours

BASE REFERENCES

Height	Power	Current	Configuration	Order code
5.7m	71 W	350 mA	CMP10057SPRJ_NDL_71W350IA23_1N_C1CGCLAS	5-653001-028
5.7m	109 W	530 mA	CMP10057SPRJ_NDL109W530IA23_1N_C1CGCLAS	5-653002-028
7.5m	71 W	350 mA	CMP10075SPRJ_NDL_71W350IA23_1N_C1CGCLAS	5-653003-028
7.5m	109 W	530 mA	CMP10075SPRJ_NDL109W530IA23_1N_C1CGCLAS	5-653004-028

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265

The light group flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



PLIZAR

ISTANIUM [®]

Simon PLIZAR decorative lighting point, up to 9 m high, with vertical cylindrical shaft and lateral fastening. Possibility of mounting two MIZAR luminaires, angled pole or two crossed angled poles

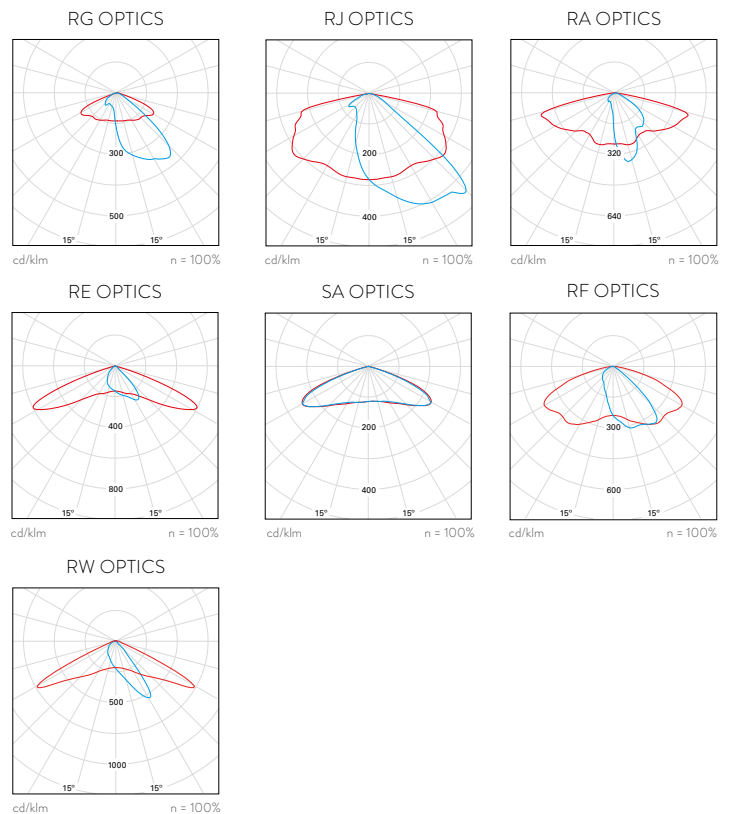
Luminaires:



Support:



COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)***
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h



— C0 - C180 — C90 - C270 *Upon request ** Check other photometric distributions *** Orientation between 0° and 5°

Simon **PLIZAR** decorative lighting point, up to 9 m high, with angled vertical cylindrical shaft, or double crossed angled shaft, and tangential lateral luminaire fastening. Supported by a flat flange plate with reinforcing ring and gussets and shaft made of S235JR - quality sheet carbon steel.

Flush trapdoor with interior reinforcement.

Tangential lateral luminaire fastening through $\frac{3}{4}$ " G x 50 mm screw on side of shaft, in horizontal position. Luminaire fastened on the side of the body, allowing it to be angled towards the front or back.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish and painted in Simon GYTECH colour. Possibility of Simon and RAL chart finishes, as well as other protective finishes. Supplied with anchoring bolts, template and double nut to level the base.

Pole with CE - certified constancy of performance.

Specific Simon MIZAR LED decorative luminaire, size M, made of die - cast aluminium.

Bevelled flat cover. Internal refrigeration system through fins. Access to the gear and maintenance from the bottom with opening through two stainless steel Allen M8 screws on the top.

Easy - clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. IP66 protection rating for the Istanium LED optical group and IK08 impact resistance rating.

Possibility of mounting up to ten multi - array optics. Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas. LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1% with an angle of 0° to ± 5°.

With **Class I** and **Class II** electronic control gear with 230 Vac / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input, according to luminaire model. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYTECH colour and trim ring in Simon BKTECH colour. Dimensions 500x165x500 mm.

LUMINAIRE

PHYSICAL FEATURES AND MATERIALS

IP	IP66 / IP65
IK	IK08
Body	Die-cast aluminium
Closure system	With stainless steel screws
Diffuser	Flat transparent shatter-proof tempered glass

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C					
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol					
	Luminaires supplied by electrical grid					
Supply voltage	220-240 Vac					
Frequency	50 / 60 Hz					
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)					
Power factor (cos φ at max. charge)	≥0.95					
Luminaire electrical protection	Class I or Class II					
Power according to models***	12 LEDs	24 LEDs	36 LEDs	48 LEDs	60 LEDs	72 LEDs
Supply current	1 module	2 module	3 module	4 module	5 module	6 module
HIGH EFFICIENCY	12 W	24 W	35 W	47 W	59 W	71 W
HIGH BALANCE	18 W	36 W	54 W	73 W	91 W	109W
HIGH FLUX	24 W	49 W	73 W	-	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581
Support according to: EN 40-5

Warranty

5 years for luminaires and light groups.

Supply and packaging

Luminaire packed in recyclable cardboard to protect the product during transport and storage. Pole packed with foam reel protector and plate base with foam protector on edges.

Maintenance luminaire

Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked over time. Lubricate the closures and/or hinges of the moving parts.

Keep the thermal radiation surface clean to ensure proper dissipation and not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.

SUPPORT

FASTENING SYSTEMS

Luminaire fastening	Tangential lateral luminaire fastening by means of clamp with $\frac{3}{4}$ " G x 50 mm screw, in horizontal position, directional 360° on vertical and horizontal axes
Notes	Anchoring bolts and template provided

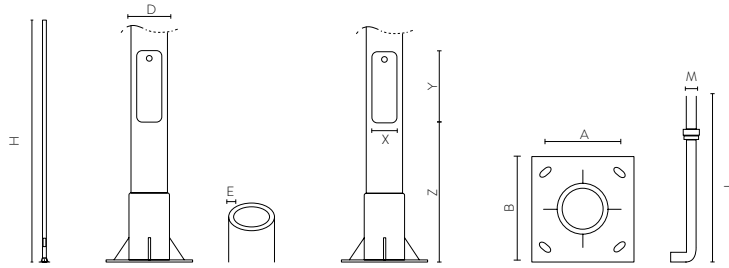
PHYSICAL FEATURES AND MATERIALS

IP	To achieve IP44, it is necessary to use the internal junction box with IP44 (not supplied with the pole).
Construction	Support manufactured in a single section. Support manufactured in a single section and crossed.
Shaft	Cylindrical
Trapdoor	Flush
Fastening system	Die-cast aluminium
Shaft	Structural steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

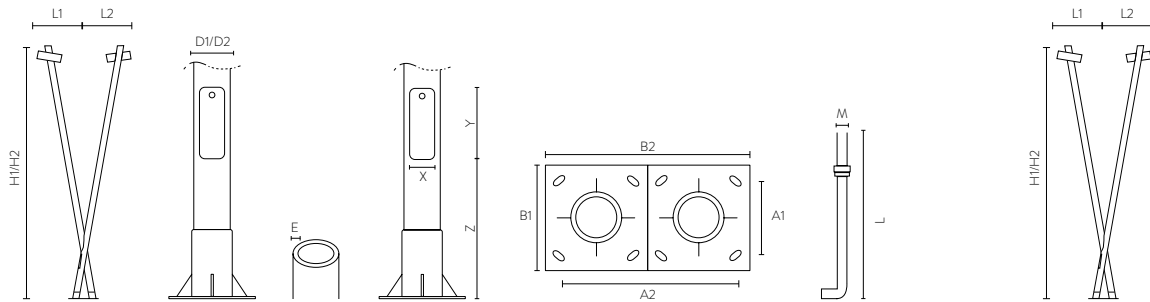
FINISHES

Luminaire	Body: Painted in GYTECH colour (Standard Paint) Trim ring: Painted in BKTECH colour (Standard Paint)
Support	Galvanised and painted in GYTECH colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

TECHNICAL INFORMATION (Units in mm)

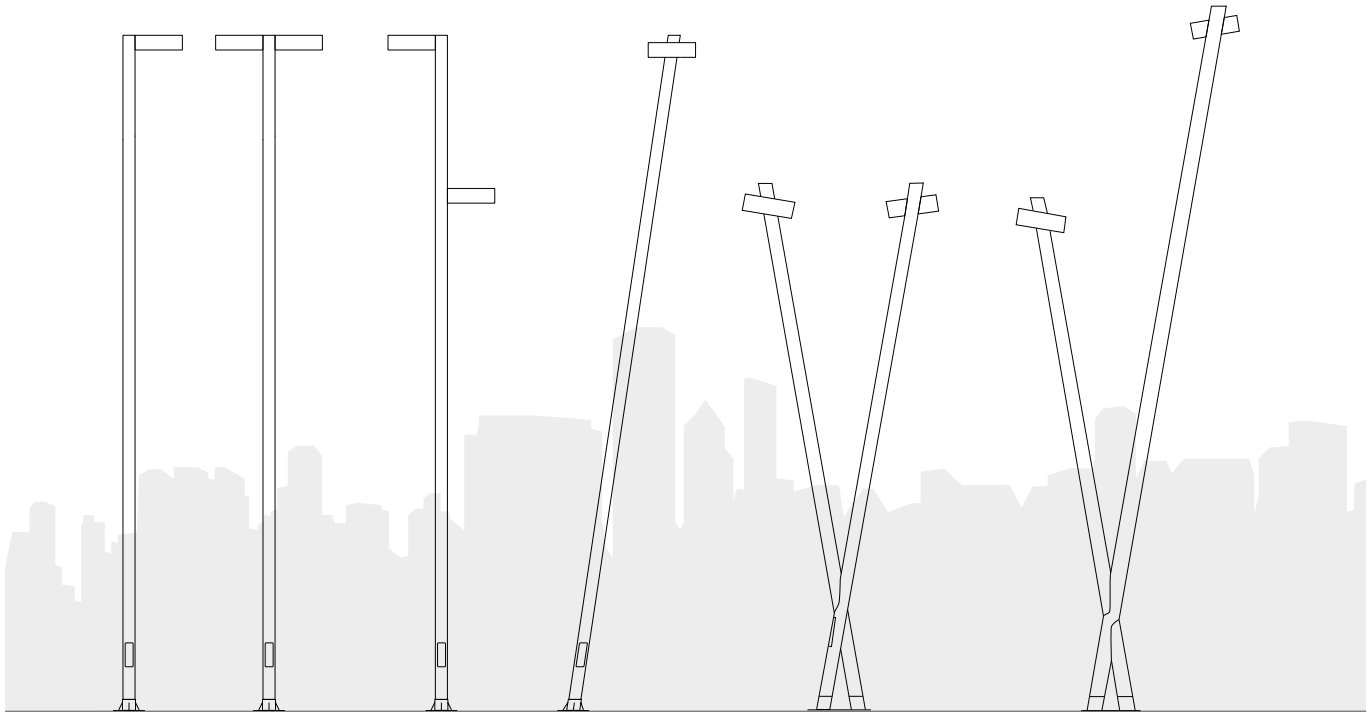


Model	Height	Base	Thickness	Door			Flange plate		Bolts	1 st luminaire		2 nd luminaire	
	H	∅ D	E	X	Y	Z	A	B	M x L	H1	L1	H2	L2
100	4,000	127	3	100	300	550	215	300	M18 x 500	4,000	-	-	-
	5,000	127	3	100	300	550	215	300	M18 x 500	5,000	-	-	-
	6,000	127	3	100	300	550	285	400	M22 x 600	6,000	-	-	-
	7,000	127	3	100	300	550	285	400	M22 x 600	7,000	-	-	-
	8,000	152	4	100	300	550	285	400	M22 x 600	8,000	-	-	-
	9,000	152	4	100	300	550	285	400	M22 x 600	9,000	-	-	-
200	4,000	127	3	100	300	550	215	300	M18 x 500	4,000	-	4,000	-
	5,000	127	3	100	300	550	215	300	M18 x 500	5,000	-	5,000	-
	6,000	127	3	100	300	550	285	400	M22 x 600	6,000	-	6,000	-
	7,000	127	3	100	300	550	285	400	M22 x 600	7,000	-	7,000	-
	8,000	152	4	100	300	550	285	400	M22 x 600	8,000	-	8,000	-
	9,000	152	4	100	300	550	285	400	M22 x 600	9,000	-	9,000	-
210	5,000	127	3	100	300	550	215	300	M18 x 500	4,000	-	5,000	-
	6,000	127	3	100	300	550	285	400	M22 x 600	4,000 / 5,000	-	6,000	-
	7,000	127	3	100	300	550	285	400	M22 x 600	4,000 / 5,000 / 6,000	-	7,000	-
	8,000	152	4	100	300	550	285	400	M22 x 600	4,000 / 5,000 / 6,000 / 7,000	-	8,000	-
	9,000	152	4	100	300	550	285	400	M22 x 600	4,000 / 5,000 / 6,000 / 7,000 / 8,000	-	9,000	-
	101	4,000	127	3	100	300	550	215	300	M18 x 500	4,000	750	-
5,000		127	3	100	300	550	215	300	M18 x 500	5,000	900	-	-
6,000		127	3	100	300	550	285	400	M22 x 600	6,000	1,050	-	-
7,000		127	3	100	300	550	285	400	M22 x 600	7,000	1,250	-	-
8,000		152	4	100	300	550	285	400	M22 x 600	8,000	1,350	-	-
9,000		152	4	100	300	550	285	400	M22 x 600	9,000	1500	-	-



Model	H1	H2	D1	D2	Thickness	Door			Flange plate				Bolts	H1	L1	H2	L2
	H1	H2	D1	D2	E	X	Y	Z	A1	A2	B1	B2		M x L	H1	L1	H2
201	5,000	5,000	127	127	4	100	300	550	285	600	400	700	M22 x 600	5,000	900	5,000	900
211	6,000	5,000	152	127	4	100	300	550	285	600	400	700	M22 x 600	5,000	900	6,000	1,050
	7,000	5,000	152	127	4	100	300	550	285	600	400	700	M22 x 600	5,000	900	7,000	1,250
	8,000	5,000	152	127	4	100	300	550	285	600	400	700	M22 x 600	5,000	900	8,000	1,350
	9,000	5,000	152	127	4	100	300	550	285	600	400	700	M22 x 600	5,000	900	9,000	1,500

LIGHTING POINT EXAMPLES



PLIZAR 100

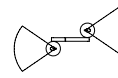
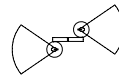
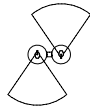
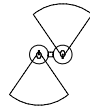
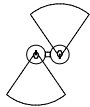
PLIZAR 200

PLIZAR 210

PLIZAR 101

PLIZAR 201

PLIZAR 211



ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*	Acid-less protection	Stick-less protection	Draw-less protection
Standard Paint Finish: hot dip galvanised** and painted Average durability in corrosive environment C4.	✓	✓	✓
Seafrost Paint Finish: hot dip galvanised** and painted High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively

SUPPORT

Model	Pole height	Description	L1	L2
100		SIMON PLIZAR lighting point, with vertical shaft and one luminaire		
200		SIMON PLIZAR lighting point, with vertical shaft and two luminaires at the same height, opposite at 180°		
210		SIMON PLIZAR lighting point, with vertical shaft and two luminaires at different heights, opposite at 180°		
101		SIMON PLIZAR lighting point, with shaft angled at 10° and one luminaire		
201		SIMON PLIZAR lighting point, with two crossed angled shafts at 1 m high, at 10° and -10°, and two luminaires at the same height, opposite at 180° **		
211		SIMON PLIZAR lighting point, with two crossed angled shafts at 1 m high, at 10° and -10°, and two luminaires at different heights, opposite at 180° **		
	04SP	4 m height, luminaire assembly height, flat base plate with reinforcing ring and flush trapdoor according to measurements		
	05SP	5 m height, luminaire assembly height, flat base plate with reinforcing ring and flush trapdoor according to measurements		
	06SP	6 m height, luminaire assembly height, flat base plate with reinforcing ring and flush trapdoor according to measurements		
	07SP	7 m height, luminaire assembly height, flat base plate with reinforcing ring and flush trapdoor according to measurements		
	08SP	8 m height, luminaire assembly height, flat base plate with reinforcing ring and flush trapdoor according to measurements		
	09SP	9 m height, luminaire assembly height, flat base plate with reinforcing ring and flush trapdoor according to measurements		

LUMINAIRE

Optics	Colour Temp.	Flux	Gear	Dimming	Protection	Finish	Description	L1	L2
RG_							G Type Front Road Light Optics		
RJ_							J Type Front Road Light Optics		
RA_							A Type Extended Road Light Optics		
RE_							E Type Extended Road Light Optics		
SA_							A Type Symmetric Optics		
RF_							F Type Front Road Light Optics		
RW_							Wide Road Light Optics		
	<input type="radio"/> NDL						Neutral daylight - 4,000 K		
	<input type="radio"/> WDL						Warm daylight - 3,000 K		
	<input type="radio"/> SDL						Soft daylight - 2,700 K		
		_12W350					12 W 350 mA	1,760 lm @ 4,000 K	12 LEDs
		_24W700					24 W 700 mA	3,360 lm @ 4,000 K	12 LEDs
		_36W530					36 W 530 mA	4,960 lm @ 4,000 K	24 LEDs
		_49W700					49 W 700 mA	6,330 lm @ 4,000 K	24 LEDs
		_54W530					54 W 530 mA	7,390 lm @ 4,000 K	36 LEDs
		_73W700					73 W 700 mA	9,300 lm @ 4,000 K	36 LEDs
		_91W530					91 W 530 mA	12,340 lm @ 4,000 K	60 LEDs
		109W530					109 W 530 mA	14,590 lm @ 4,000 K	72 LEDs
			IA23_				Electronic control gear at 230 V _{ac} 50/60 Hz, standard protection against 6 kV power surges		
			IA23S				Electronic control gear at 230 V _{ac} 50/60 Hz, additional protection against 10 kV power surges		
				2N_-			Dimming without control line (self-dimming)		
				2N+			Dimming with control line		
				1N_			Without dimming (on/off)		
				CAD_			Cabinet amplitude dimming (electrical box dimmer)		
				1-10			Dimming through 1.10 V input protocol		
				DALI			Dimming through DALI input protocol		
					C1		Class 1 Luminaire electrical protection		
					C2		Class 2 Luminaire electrical protection		
						GYTECH	Simon Technical Grey		
						*****	Finish in Simon Lighting colours		
						*****	Finish in RAL classic chart colours		

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.

* Model available only with Luminaire 1 and Luminaire 2 at a height of 5 m.

* Model available only with Luminaire 1 at a height of 5 m.



PLIZAR TOWER

ISTANIUM[®]

Simon PLIZAR TOWER decorative lighting point, up to 10.5 m high, with vertical cylindrical shaft, and directional tangential lateral luminaire fastening.

Luminaires:



Support:



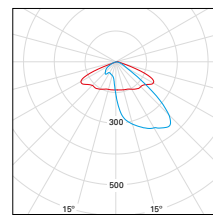
COLOUR TEMP.: ND L 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*

COLOUR RENDERING INDEX: >70

UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 areas)***

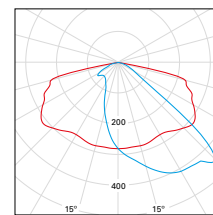
LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h

RG OPTICS



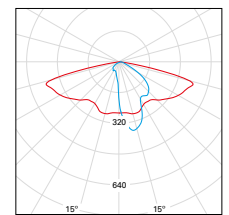
cd/klm n = 100%

RJ OPTICS



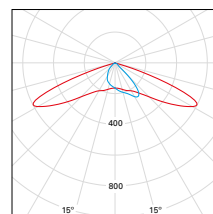
cd/klm n = 100%

RA OPTICS



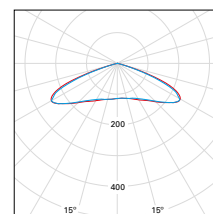
cd/klm n = 100%

RE OPTICS



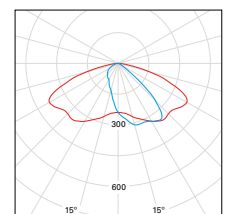
cd/klm n = 100%

SA OPTICS



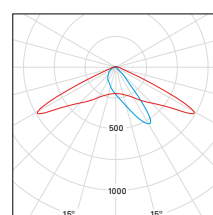
cd/klm n = 100%

RF OPTICS



cd/klm n = 100%

RW OPTICS



cd/klm n = 100%

— C0 - C180 — C90 - C270 *Upon request ** Check other photometric distributions *** Orientation between 0° and 5°

Simon **PLIZAR TOWER** decorative lighting point, up to 10.5 m high, with cylindrical shaft, and directional tangential lateral luminaire fastening.

Supported by a flat flange plate with reinforcing ring and gusset, shaft and clamp made of S235JR - quality sheet carbon steel.

Flush trapdoor(s) with interior reinforcement.

Tangential lateral luminaire fastening by means of clamp with $\frac{3}{4}$ " G x 50 mm screw, in horizontal position, directional on the vertical axis of the support. Luminaire fastened on the side of the body, allowing it to be angled towards the front or back.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish and painted in Simon GYTECH colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base.

Pole with CE - certified constancy of performance.

Suitable decorative luminaires: Simon MIZAR LED, size M, made of die-cast aluminium.

Bevelled flat cover. Internal refrigeration system through fins. Access to the gear and maintenance from the bottom with opening through two stainless steel Allen M8 screws on the top.

Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. **IP66** protection rating for the Istanium LED optical group and **IK08** impact resistance rating.

Possibility of mounting up to ten multi-array optics.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istanium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1% with an angle of 0° to ± 5°.

With **Class I** and **Class II** electronic control gear with 230 Vac / 50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA.

Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input, according to luminaire model. Optional custom programming and maintenance of constant light output (CLO).

Standard finish in Simon GYTECH colour and trim ring in Simon BKTECH colour. Dimensions 500x165x500 mm.

LUMINAIRE

PHYSICAL FEATURES AND MATERIALS

IP	IP66 / IP65
IK	IK08
Body	Die-cast aluminium
Closure system	With stainless steel screws
Diffuser	Flat transparent shatter-proof tempered glass

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C					
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol					
	Luminaires supplied by electrical grid					
Supply voltage	220-240 Vac					
Frequency	50 / 60 Hz					
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)					
Power factor (cos φ at max. charge)	≥ 0.95					
Luminaire electrical protection	Class I or Class II					
Power according to models***	12 LEDs	24 LEDs	36 LEDs	48 LEDs	60 LEDs	72 LEDs
Supply current	1 module	2 module	3 module	4 module	5 module	6 module
HIGH EFFICIENCY	12 W	24 W	35 W	47 W	59 W	71 W
HIGH BALANCE	18 W	36 W	54 W	73 W	91 W	109W
HIGH FLUX	24 W	49 W	73 W	-	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581
Support according to: EN 40-5

Warranty

5 years for luminaires and light groups.

Supply and packaging

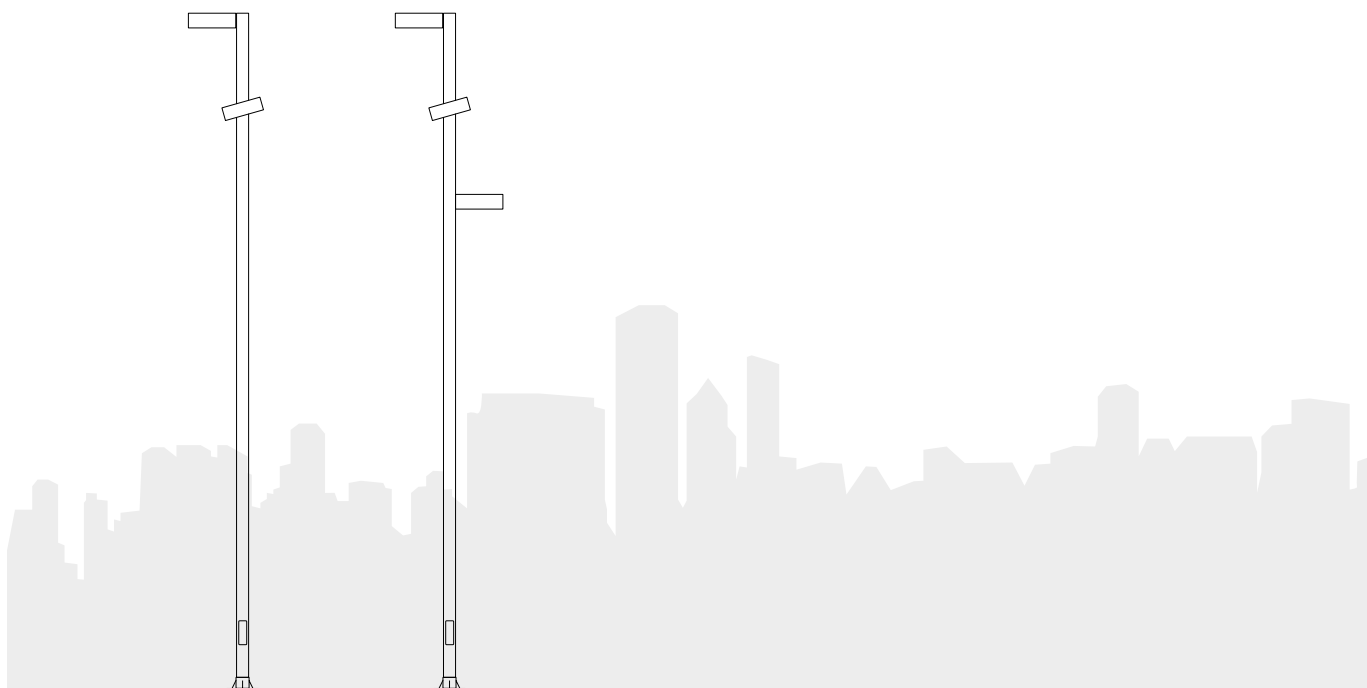
Luminaire packed in recyclable cardboard to protect the product during transport and storage. Pole packed with foam reel protector and plate base with foam protector on edges.

Maintenance luminaire

Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked over time. Lubricate the closures and/or hinges of the moving parts.

Keep the thermal radiation surface clean to ensure proper dissipation and not lose light flux without shortening the life of the LEDs.

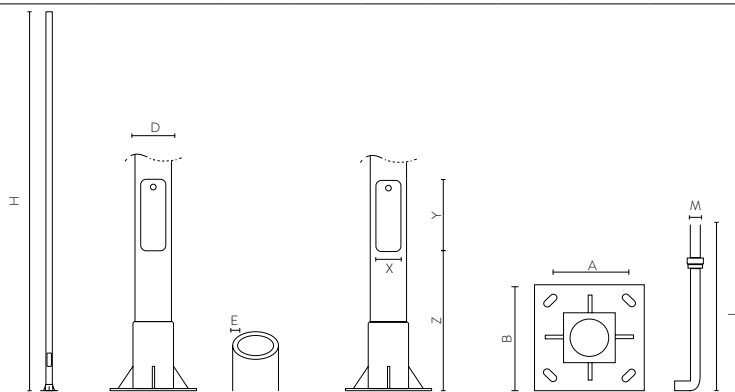
* Values corresponding to the current state of technology. ** Check other regulations. *** The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.



PLIZAR TOWER 210

PLIZAR TOWER 310

TECHNICAL INFORMATION (Units in mm)



Model	Height	Base	Thickness	Door			Flange plate		Bolts	Luminaire height			
	H			X	Y	Z	A	B		M x L	H1	H2	H3
210	8,500	152	4	100	300	550	285	400	M22 x 600	7,000	8,000	-	Tangential
	10,500	168	4	100	300	550	285	400	M22 x 600	9,000	10,000	-	Tangential
310	8,500	152	4	100	300	550	285	400	M22 x 600	6,000	7,000	8,000	Tangential
	10,500	168	4	100	300	550	285	400	M22 x 600	8,000	9,000	10,000	Tangential

ACCESSORIES / REPLACEMENTS

Description Order code

Triangular 10 mm key to close trapdoor

50-73265

SUPPORT




Model	Pole height	Description	L1	L2	L3
210		SIMON PLIZAR TOWER lighting point with two clamps for luminaire fastening at different heights			
310		SIMON PLIZAR TOWER lighting point with three clamps for luminaire fastening at different heights			
	08.5SP	8.5 m height, luminaire assembly height, flat base plate with reinforcing ring and flush trapdoor according to measurements			
	10.5SP	10.5 m height, luminaire assembly height, flat base plate with reinforcing ring and flush trapdoor according to measurements			

LUMINAIRES

Optics	Colour Temp.	Flux	Gear	Dimming	Protection	Finish	Description	L1	L2	L3
RG_							G Type Front Road Light Optics			
RJ_							J Type Front Road Light Optics			
RA_							A Type Extended Road Light Optics			
RE_							E Type Extended Road Light Optics			
SA_							A Type Symmetric Optics			
RF_							F Type Front Road Light Optics			
RW_							Wide Road Light Optics			
<input type="radio"/>	NDL						Neutral daylight - 4,000 K			
<input type="radio"/>	WDL						Warm daylight – 3,000 K			
<input type="radio"/>	SDL						Soft daylight - 2,700 K			
	_12W350						12 W 350 mA 1,760 lm @ 4,000 K 12 LEDs			
	_24W700						24 W 700 mA 3,360 lm @ 4,000 K 12 LEDs			
	_36W530						36 W 530 mA 4,960 lm @ 4,000 K 24 LEDs			
	_49W700						49 W 700 mA 6,330 lm @ 4,000 K 24 LEDs			
	_54W530						54 W 530 mA 7,390 lm @ 4,000 K 36 LEDs			
	_73W700						73 W 700 mA 9,300 lm @ 4,000 K 36 LEDs			
	_91W530						91 W 530 mA 12,340 lm @ 4,000 K 60 LEDs			
	109W530						109 W 530 mA 14,590 lm @ 4,000 K 72 LEDs			
	IA23_						Electronic control gear at 230 Vac 50/60 Hz, standard protection against 6 kV power surges			
	IA23S						Electronic control gear at 230 Vac 50/60 Hz, additional protection against 10 kV power surges			
	2N_						Dimming without control line (self-dimming)			
	2N+						Dimming with control line			
	1N_						Without dimming (on/off)			
	CAD_						Cabinet amplitude dimming (electrical box dimmer)			
	1-10						Dimming through 1.10 V input protocol			
	DALI						Dimming through DALI input protocol			
	C1						Class 1 Luminaire electrical protection			
	C2						Class 2 Luminaire electrical protection			
	GYTECH						Finish in Technical Grey			
	*****						Finish in Simon Lighting colours			
	*****						Finish in RAL classic chart colours			

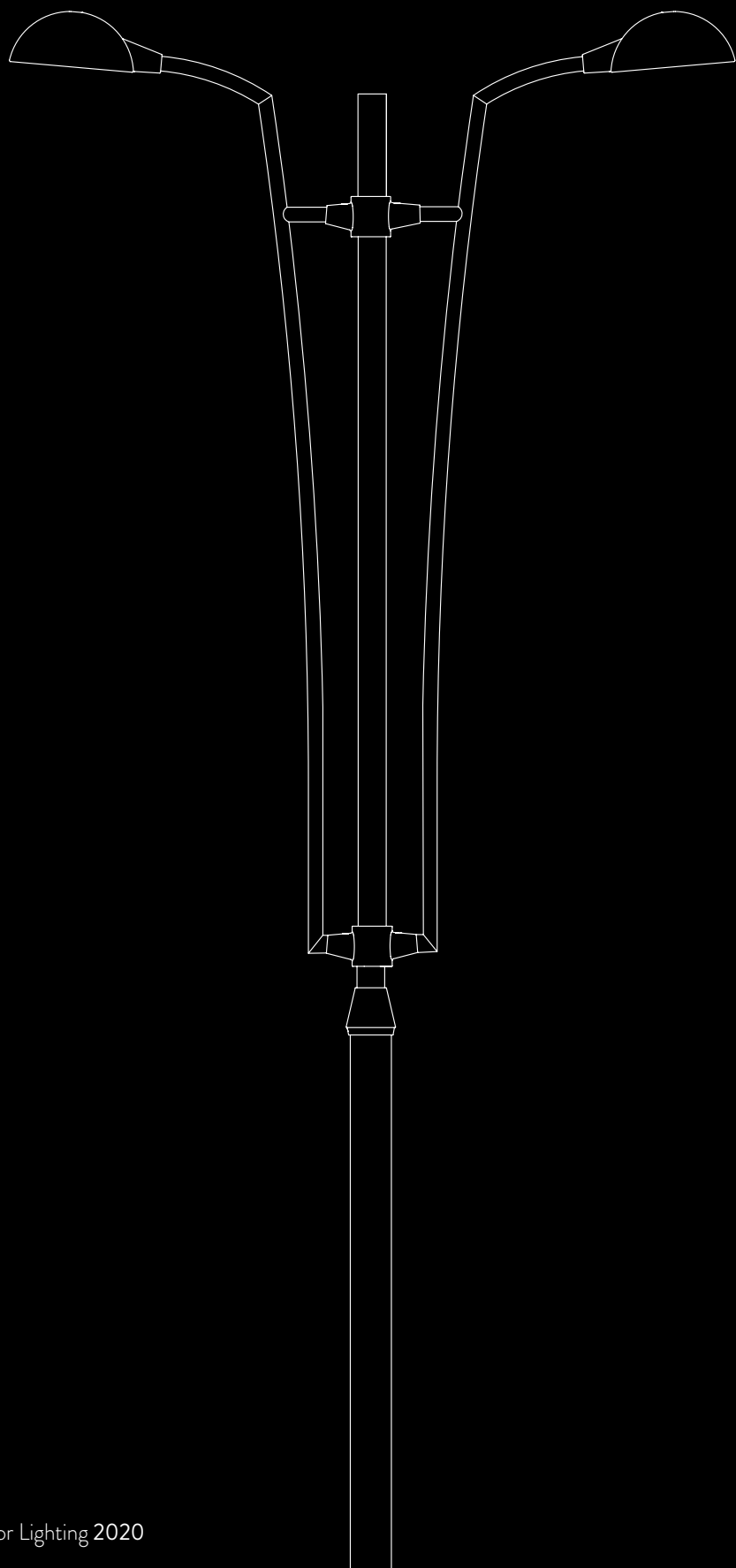
The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

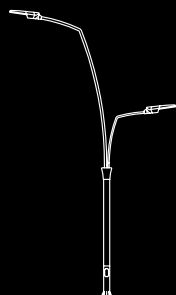
Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard Paint Finish: hot dip galvanised** and painted Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

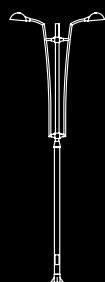
See expanded information on protection systems and finishes on pages 28 and 514 respectively



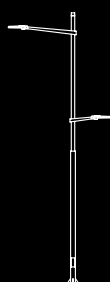
DECORATIVE POLES



UNO
P.321



LINK
P.329



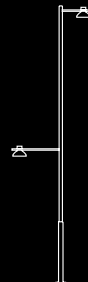
LIMA
P.338



TALYA LA
P.342



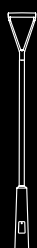
TALYA LH
P.346



LINET
P.350



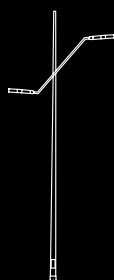
LIBRA
P.354



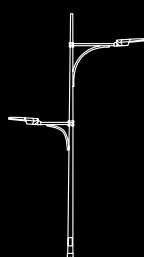
CL22
P.358



BOTAVARA
P.362



DIAGONAL
P.366



ESBELTA
P.370



BANDEROLE
P.374



BABEL
P.378



CL14
P.382



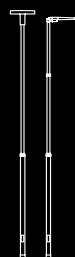
CL12
P.386



CLA16
P.390



CLB16
P.394



CL21
P.398



TIL
P.402



ARCDECO
NEW
P.406



ROCKET
NEW
P.410



TORT
NEW
P.414



UNO SYSTEM

Lighting point up to 10 m high with different arm configurations for luminaires. Possibility of adding traffic light arms, road signalling and communication.

UNO SYSTEM

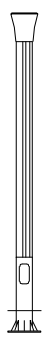
FEATURES

SHAFT

Each UNO SYSTEM -300 or 244- shaft model allows for the assembly of a limited number of different -sized tubes, as indicated in the Shafts table.

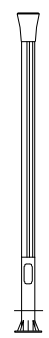
Furthermore, each arm type -A10, B10, C10, A6, S4, 2S4, 2S5 and 3S5- consists of one or several different -sized tubes: large or small, as indicated in the Arms table.

To determine the different arm combinations available for each shaft, the number of arm tubes mounted must not exceed the shaft's capacity.



UNO SYSTEM 300
Ø300
holds:

- 1 large tube
- 1 small tube
- 2 large tubes
- 1 large tube + 1 small tube
- 2 small tubes
- 3 large tubes
- 2 large tubes + 1 small tube
- 1 large tube + 2 small tubes
- 3 small tubes

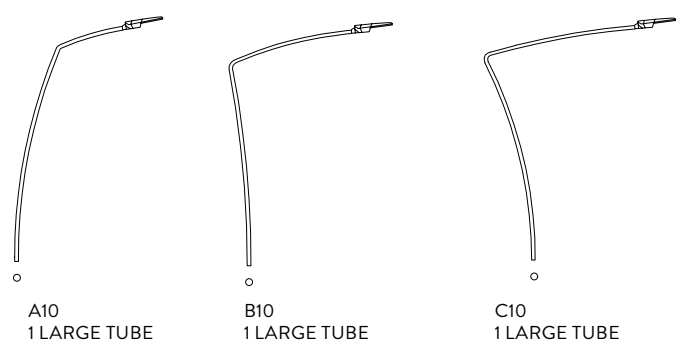


UNO SYSTEM 244
Ø244
holds:

- 1 large tube
- 1 small tube
- 2 large tubes
- 1 large tube + 1 small tube
- 2 small tubes
- 1 large tube + 2 small tubes
- 3 small tubes

HIGH ARMS

10M HIGH ARMS (2500 OVERHANG)

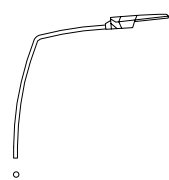


A10
1 LARGE TUBE

B10
1 LARGE TUBE

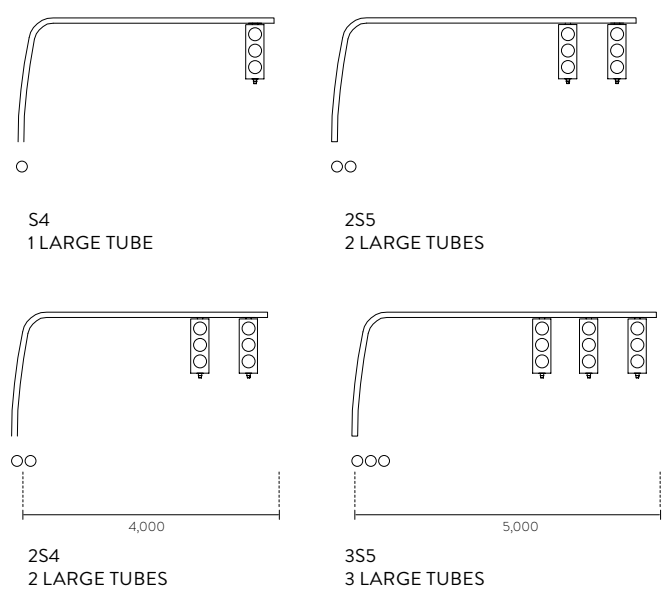
C10
1 LARGE TUBE

6M HIGH ARMS (1500 OVERHANG)



A6
1 SMALL TUBE

TRAFFIC LIGHT ARMS (6700 HEIGHT)



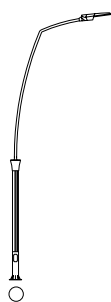
S4
1 LARGE TUBE

2S5
2 LARGE TUBES

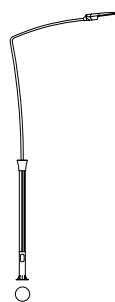
2S4
2 LARGE TUBES

3S5
3 LARGE TUBES

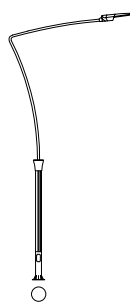
CONFIGURATION EXAMPLES



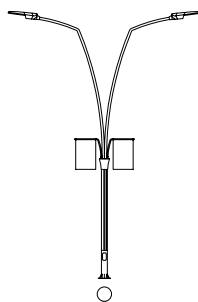
A10



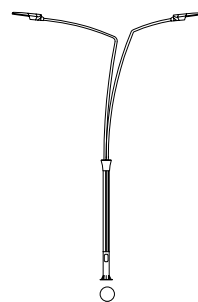
B10



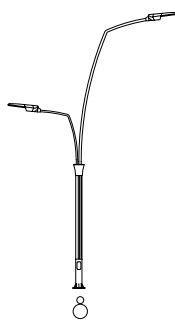
C10



A10 WITH BANDEROLE



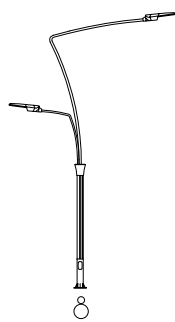
C10 WITH A10



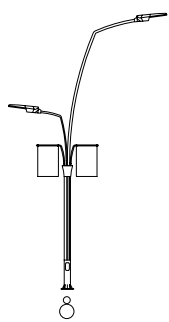
A10 WITH A6



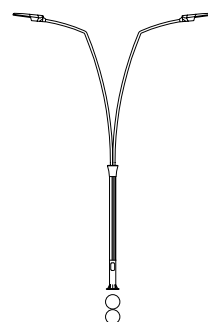
B10 WITH A6



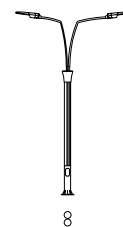
C10 WITH A6



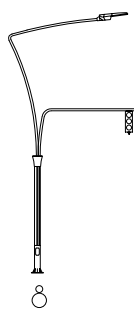
A10 A6 WITH BANDEROLE



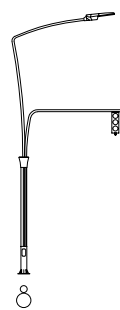
A10



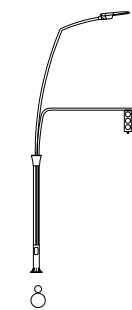
8
A6



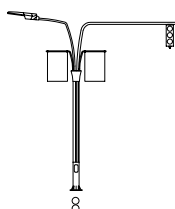
C10 S4



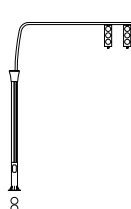
B10 S4



A10 S4



8
A6 S4 WITH BANDEROLE



8
A6 2S5



UNO SYSTEM

SIMON UNO SYSTEM decorative pole, up to 10 m high, with cylindrical shaft with outdoor coating and capital, and lateral fastening for luminaires, traffic lights, road communication and urban communication by means of different - sized arms and supports.



Simon **UNO SYSTEM** decorative pole, up to 10 m high, with cylindrical shaft with outdoor coating and capital, and lateral fastening for luminaires, traffic lights, road communication and urban communication by means of different - sized arms and supports.
 Flat flange plate with reinforcing ring and gussets, base, arm(s) and support(s) made of S235JR- quality sheet carbon steel. Aluminium extrusion profile base coating. Die - cast aluminium capital.
 Flush trapdoor with interior reinforcement.
 Lateral luminaire fastening through Ø60 mm x 100 mm coupling at end of arm, angled at 5°.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Hot dip galvanised and painted finish for steel components, and painted finish for aluminium components. Shaft with outdoor coating, capital, arm(s) and support(s) painted in Simon GY9006 colour. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.
 Pole with CE - certified constancy of performance.
 Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF and ALYA.

FASTENING SYSTEMS

Luminaire fastening	Lateral fastening through Ø60 mm x 100 mm coupling at 5° angle
Traffic light fastening	Upper or suspended fastening with supports in different lengths
Road communication fastening	Two-point fastening with supports with different orientations
Urban communication fastening	Suspended fastening with lateral supports
Notes	Anchoring bolts and template provided Luminaires not included

PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).
Arm	Carbon steel sheet, S235JR quality
Support for other elements	Carbon steel sheet, S235JR quality
Capital	Die-cast aluminium
Shaft outdoor coating	Aluminium extrusion profile
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcement and gussets

PHYSICAL FEATURES AND MATERIALS

Construction	Made up of shaft, outdoor coating, capital, arm(s) and support(s)
Arm	Cylindrical, two sections
Shaft	Cylindrical
Trapdoor	Flush with interior reinforcement

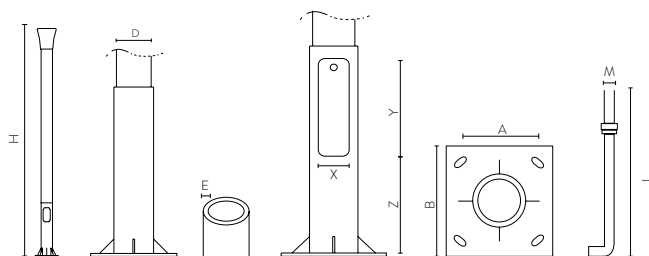
FINISHES

Arm	Galvanised and painted in GY90006 colour (Standard Paint)
Support for other elements	Galvanised and painted in GY9006 colour (Standard Paint) / Zinc-coated
Capital	Painted GY90006 colour (Standard Paint)
Outdoor shaft coating	Painted GY90006 colour (Standard Paint)
Shaft	Galvanised and painted in GY90006 colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

REGULATIONS AND CERTIFICATES

Support according to: REGULATION EN 40-5

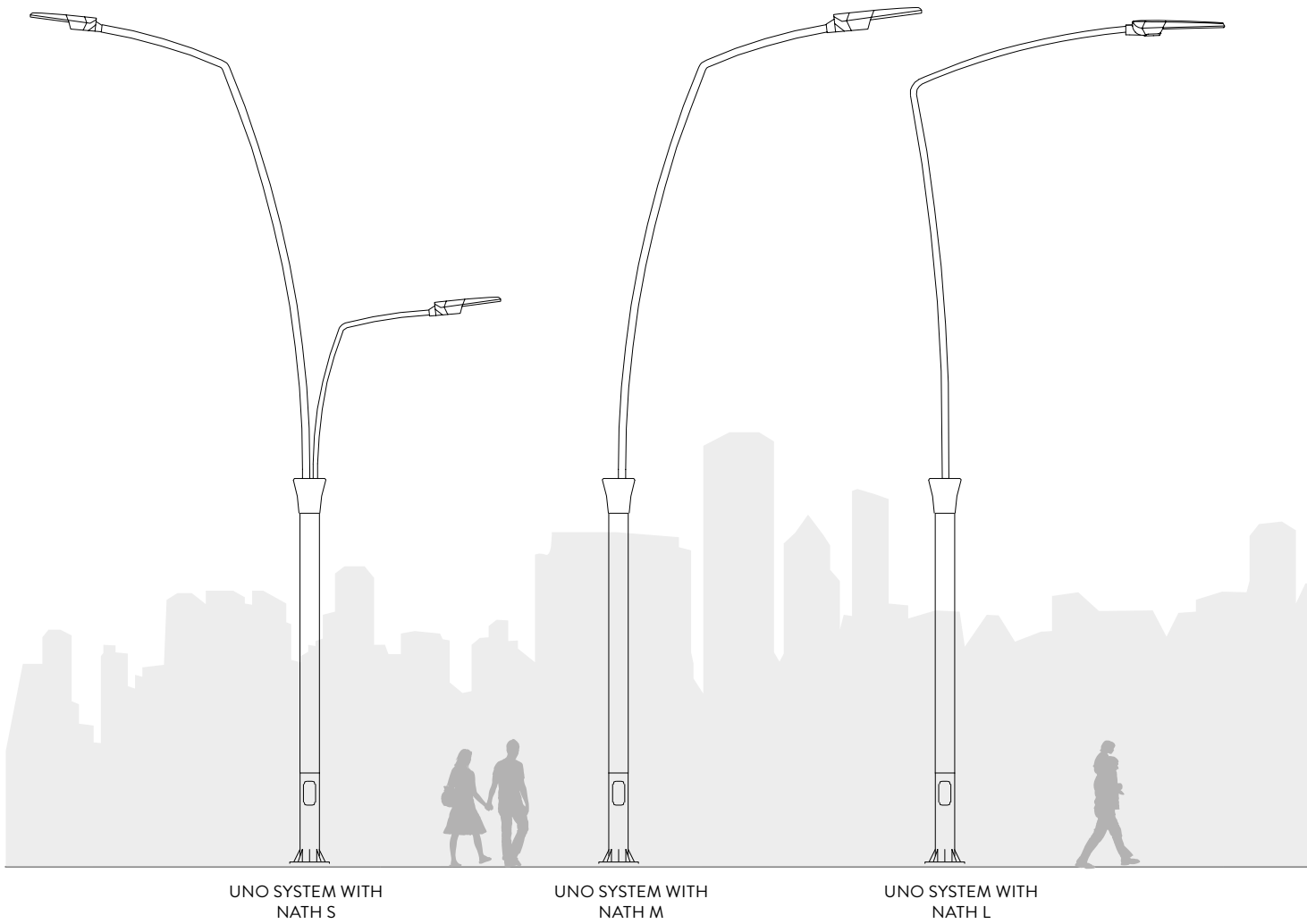
TECHNICAL INFORMATION* (Units in mm)






Model	Height	Base	Thickness	Door			Flange plate		Bolts	Arms	Orientation	1 st Arm	2 nd Arm	3 rd Arm	Code
	H	∅ D		E	X	Y	Z	A							
244	4,750	244	4	144	300	550	350	500	M24 x 800	2	120°	A6	A10	-	5-473058
	4,750	244	4	144	300	550	350	500	M24 x 800	3	180°	A6	A6	B10	5-473070
	4,750	244	4	144	300	550	350	500	M24 x 800	1	-	2S4	-	-	5-473074
300	4,750	300	5.5	144	300	550	350	500	M24 x 800	3	120°	A10	A10	A10	5-473016
	4,750	300	5.5	144	300	550	350	500	M24 x 800	2	180°	A6	2S5	-	5-473034
	4,750	300	5.5	144	300	550	350	500	M24 x 800	3	120°	2S4	A10	A10	5-473040

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)

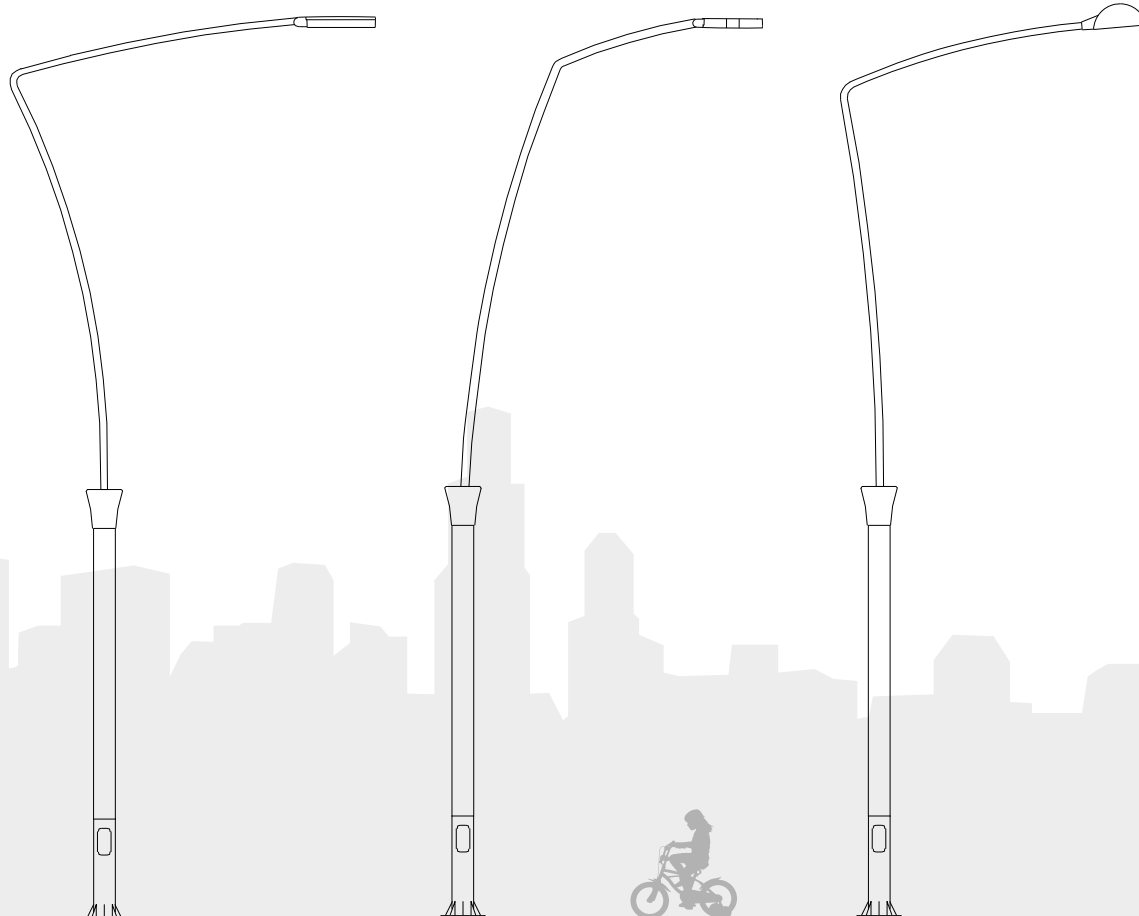


SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



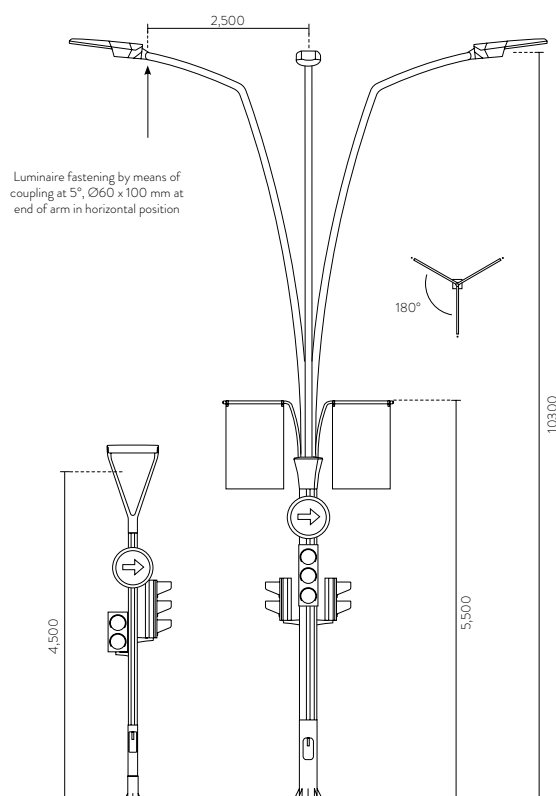
UNO SYSTEM WITH
ALTAIR IXF

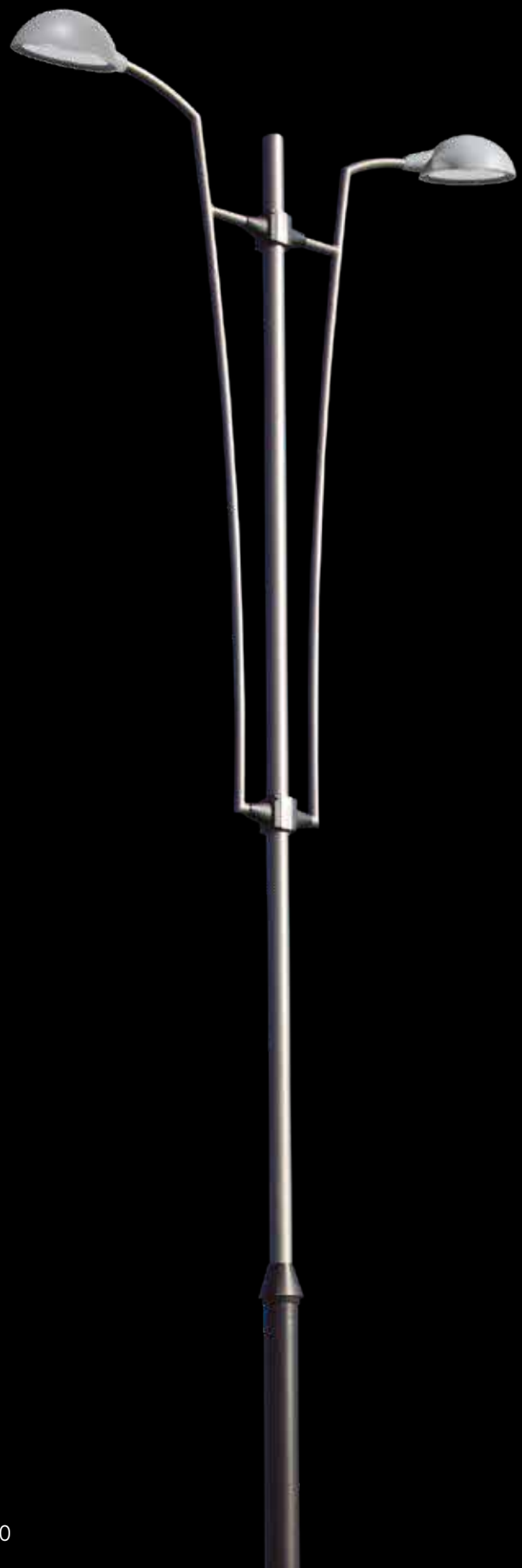
UNO SYSTEM WITH
MERAK SXF

UNO SYSTEM WITH
ALYA

ACCESSORIES / REPLACEMENTS

Description	Finish	Order code
Triangular 10 mm key to close trapdoor		50-73265
Support for 244 Uno system simple banderole	GY9006	5-473106
Support for 244 Uno system double banderole	GY9006	5-473107
Support for 300 Uno system simple banderole	GY9006	5-473037
Support for 300 Uno system double banderole	GY9006	5-473036
Support for centred signal	-	5070862
Support for lateral signal	-	50-70863
Support for offset signal	-	50-70864
Support for centred directional signal	-	50-70866
Support for displaced directional signal	-	50-70867
Support for 265 mm traffic light	GY9006	50-70868
Support for 170 mm traffic light	GY9006	50-70869
Support for 103 mm traffic light	GY9006	50-70946
Support for 550 mm downward traffic light	GY9006	50-70905





LINK SYSTEM

Lighting point up to 10m high made of telescopic pole and different arm models with fastening clamps

The arm design determines the ideal lighting point model for each setting:
Minimalist TECH, so it integrates into the architecture
CLAS designed for historic areas
DEC a touch of design for the urban landscape

LINK SYSTEM

FEATURES

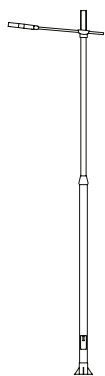
CONFIGURATION EXAMPLES

TECH SERIES (technical)

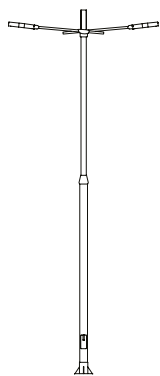
Minimalist appearance, so it integrates into the architecture.
It consists of arms: Qtech and Linetech.

CLAS SERIES (classic)

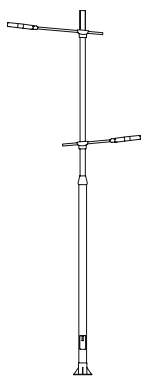
Designed for historic areas.
It consists of arms: Ecoclas and Classic.



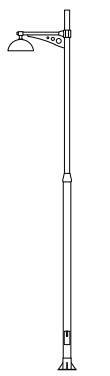
QTECH
100/101



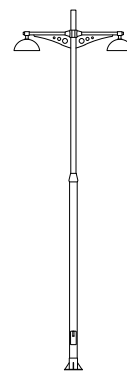
QTECH
200



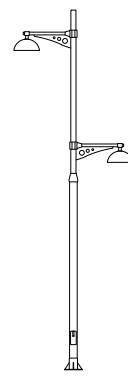
QTECH
210/211



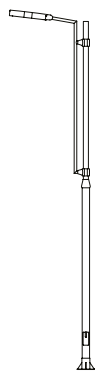
ECOCLAS
100



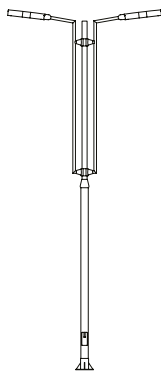
ECOCLAS
200



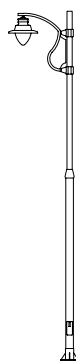
ECOCLAS
210



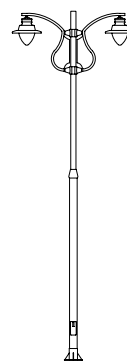
LINETECH
100



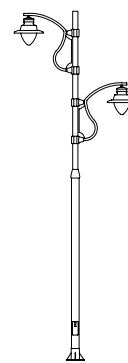
LINETECH
200



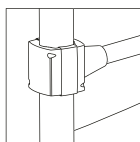
CLASSIC
100



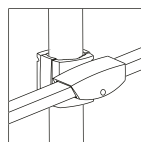
CLASSIC
200



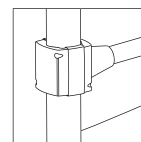
CLASSIC
210



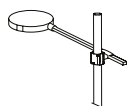
FRONT CLAMP



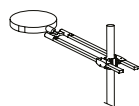
LATERAL CLAMP



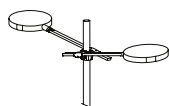
FRONT CLAMP



QTECH 100 / 210



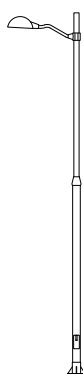
QTECH 101 / 211



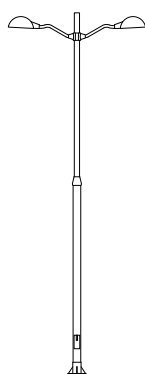
QTECH 200

DEC SERIES (decorative)

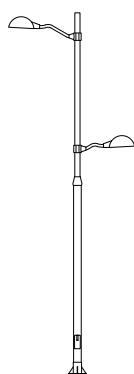
A touch of design for the urban landscape.
It consists of arms: Ecodec, Sdec and Rdec.



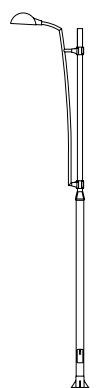
SDEC
100



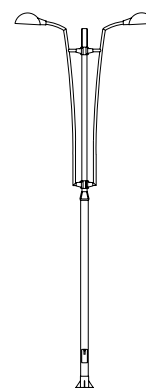
SDEC
200



SDEC
210



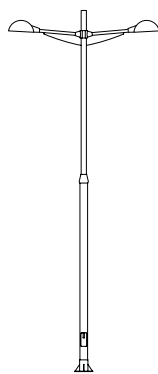
RDEC
100



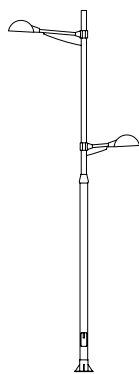
RDEC
210



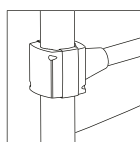
ECODEC
100



ECODEC
200



ECODEC
210



FRONT CLAMP



LINK SYSTEM

Simon LINK decorative pole, up to 10 m high, cylindrical base, telescopic cylindrical shaft and lateral or suspended luminaire fastening with arms.



Simon **LINK** decorative pole, up to 10 m high, cylindrical base, telescopic cylindrical shaft and lateral or suspended luminaire fastening with arms. Flat flange plate with reinforcing ring and gussets, base and shaft made of S235JR - quality carbon steel sheet, arm(s) made of S235JR - quality carbon steel sheet or extruded aluminium, and arm - pole fastening clamp(s) made of die - cast aluminium.

Flush trapdoor with interior reinforcement.

Allows lateral luminaire fastening through Ø60 mm x 120 mm coupling and arm angled between 0°, 5° or 10°, or lateral luminaire fastening through Ø60 mm x 120 mm coupling and 10° angle at end of arm, or lateral luminaire fastening through Ø60 mm x 100 mm coupling and 5° angle at end of arm, or lateral luminaire fastening through Ø60 mm x 120 mm coupling and 5° angle at end of arm, or suspended luminaire fastening by means of 3/4 "G screw.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised and painted finish. Allows base and clamp(s) painted in Simon BKTECH colour and shaft and arm(s) painted in Simon GYTECH colour, or base, shaft, clamp(s) and arm(s) painted in Simon BKCLAS colour, or base and clamp(s) painted in Simon BKCLAS colour and Shaft and arms painted in Simon GYDECO colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE - certified constancy of performance.

Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF, ALYA, BORA and PRAGA M PRO.

FASTENING SYSTEMS

Qttech model	Lateral fastening through Ø60 mm x 120 mm coupling, and 0° / 5° / 10° arm angle
Linetech model	Lateral fastening through Ø60 mm arm and angled at 10°
Ecoclas model	Suspended fastening by means of 3/4 "G screw in vertical position
Classic model	Suspended fastening by means of 3/4 "G screw in vertical position
Sdec model	Lateral fastening through Ø60 mm x 120 mm coupling at 5° angle
Ecodec model	Lateral fastening through Ø60 mm x 120 mm arm and 0° / 5° angle
Rdec model	Lateral fastening through Ø60 mm x 120 mm arm at 5° angle
Notes	Anchoring bolts and template provided. Luminaires not included.

PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To get IP44, an internal connection box with IP44 is needed (not supplied with pole).
Shaft	Telescopic cylindrical
Base	Cylindrical
Trapdoor	Flush with interior reinforcement
Construction	Made up of base, shaft and arm(s)
Arm	Carbon steel sheet, S235JR quality, or extruded aluminium.
Clamp	Die-cast aluminium
Shaft	Carbon steel sheet, S235JR quality
Base	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

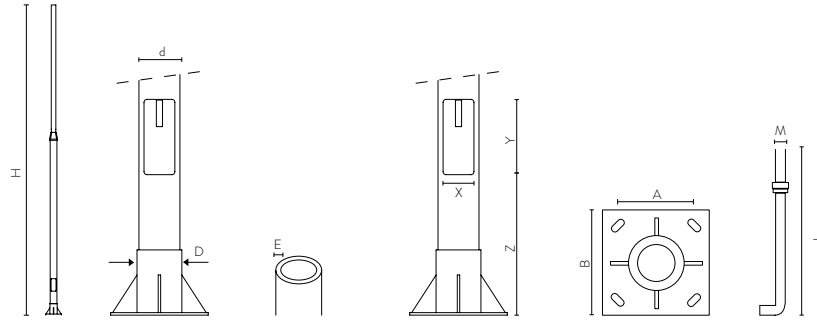
FINISHES

	Arm	Clamp	Shaft	Base
Qttech+ model	Galvanised and painted in GYTECH colour (Standard Paint)	Painted in BKTECH colour	Galvanised and painted in GYTECH colour (Standard Paint)	Galvanised and painted in GYTECH colour (Standard Paint)
Linetech model				
Ecoclas model	Painted in BKCLAS colour (Standard Paint)	Painted in BKCLAS colour	Galvanised and painted in BKCLAS colour (Standard Paint)	Galvanised and painted in BKCLAS colour (Standard Paint)
Classic model	Galvanised and painted in BKCLAS colour (Standard Paint)	Painted in BKCLAS colour	Galvanised and painted in BKCLAS colour (Standard Paint)	Galvanised and painted in BKCLAS colour (Standard Paint)
Sdec model	Galvanised and painted in GYDECO colour (Standard Paint)	Painted in BKCLAS colour	Galvanised and painted in GYDECO colour (Standard Paint)	Galvanised and painted in BKCLAS colour (Standard Paint)
Ecodec model	Painted in GYDECO colour (Standard Paint)	Painted in BKCLAS colour	Galvanised and painted in GYDECO colour (Standard Paint)	Galvanised and painted in BKCLAS colour (Standard Paint)
Rdec model	Galvanised and painted in GYDECO colour (Standard Paint)	Painted in BKCLAS colour	Galvanised and painted in GYDECO colour (Standard Paint)	Galvanised and painted in BKCLAS colour (Standard Paint)

Simon Colours (Standard Paint / Seafront Paint)
RAL chart colours (Standard Paint / Seafront Paint)

REGULATIONS AND CERTIFICATES

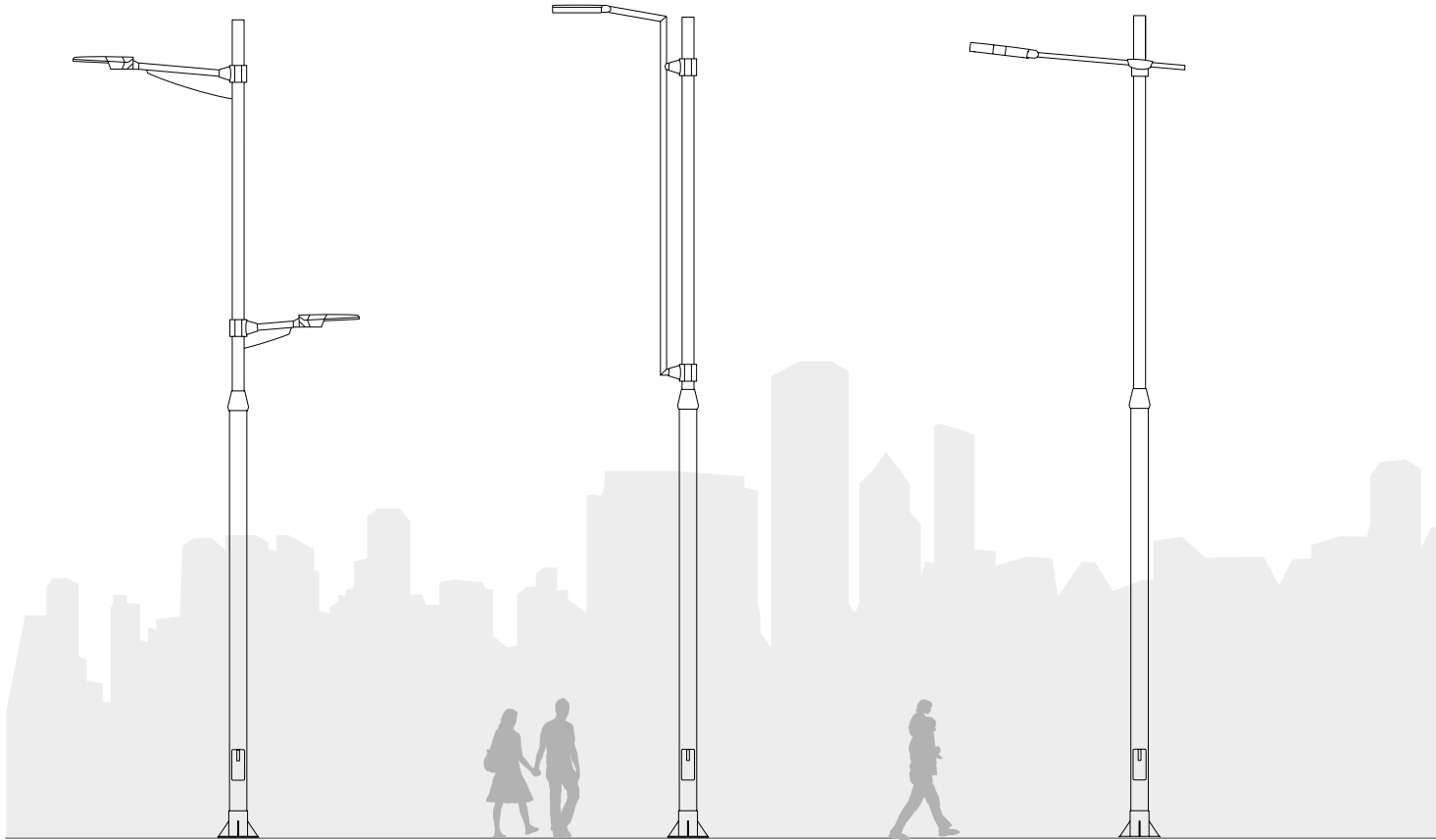
Support according to REGULATION EN 40-5



Model	Height	Base		Thickness	Door			Flange plate		Bolts	1 st Arm		2 nd Arm		Code
	H	∅ D	∅ d	Base / Shaft	X	Y	Z	A	B	M x L	H1	L1	H2	L2	
Qttech 100	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	7,500	1,400	-	-	5-640001-051
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	9,500	1,400	-	-	5-640006-051
Qttech 210	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	5,000	1,000	7,500	1,400	5-640002-051
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	5,000	1,000	9,500	1,400	5-640007-051
Qttech 200	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	7,500	1,400	7,500	1,400	5-640003-051
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	9,500	1,400	9,500	1,400	5-640008-051
Qttech 101	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	7,500	1,400	-	-	5-640004-051
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	9,500	1,400	-	-	5-640009-051
Qttech 211	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	5,000	1,000	7,500	1,400	5-640005-051
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	5,000	1,000	9,500	1,400	5-640010-051
Linetech 100	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	8,100	1,300	-	-	5-640027-051
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	10100	1,300	-	-	5-640029-051
Linetech 200	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	8,100	1,300	8,100	1,300	5-640028-051
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	10100	1,300	10100	1,300	5-640030-051
Ecoclas 100	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	7,500	1,000	-	-	5-640031-014
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	9,500	1,000	-	-	5-640034-014
Ecoclas 200	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	7,500	1,000	7,500	1,000	5-640033-014
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	9,500	1,000	9,500	1,000	5-640036-014
Ecoclas 210	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	5,000	1,000	7,500	1,000	5-640032-014
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	5,000	1,000	9,500	1,000	5-640035-014
Classic 100	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	7,500	1,000	-	-	5-640037-014
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	9,500	1,000	-	-	5-640040-014
Classic 200	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	7,500	1,000	7,500	1,000	5-640039-014
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	9,500	1,000	9,500	1,000	5-640042-014
Classic 210	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	6,000	1,000	7,500	1,000	5-640038-014
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	6,000	1,000	9,500	1,000	5-640041-014
Sdec 100	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	7,500	1,200	-	-	5-640011-061
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	9,500	1,200	-	-	5-640014-061
Sdec 200	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	7,500	1,200	7,500	1,200	5-640013-061
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	9,500	1,200	9,500	1,200	5-640016-061
Sdec 210	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	5,000	1,000	7,500	1,200	5-640012-061
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	5,000	1,000	9,500	1,200	5-640015-061
Ecodec 100	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	7,500	1,400	-	-	5-640017-061
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	9,500	1,400	-	-	5-640020-061
Ecodec 200	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	7,500	1,400	7,500	1,400	5-640019-061
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	9,500	1,400	9,500	1,400	5-640022-061
Ecodec 210	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	5,000	1,000	7,500	1,400	5-640018-061
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	5,000	1,000	9,500	1,400	5-640021-061
Rdec 100	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	8,100	1,300	-	-	5-640023-061
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	10100	1,300	-	-	5-640024-061
Rdec 200	8,000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	8,100	1,300	8,100	1,300	5-640024-061
	10000	168	115	3.6 / 4	137	310	545	285	400	M22 x 600	10100	1,300	10100	1,300	5-640026-061



RECOMMENDED LUMINAIRES (NOT INCLUDED)






ECODEC 210 WITH
NATH S / M / L

LINETECH 100 WITH
ALTAIR IXF

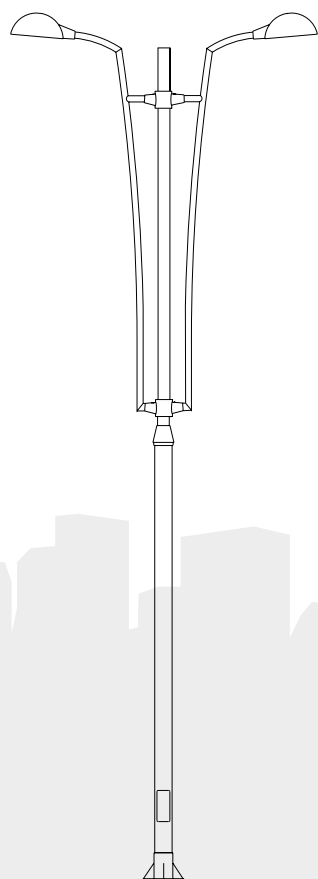
QTECH 100 / 101 WITH
MERAK SXF

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

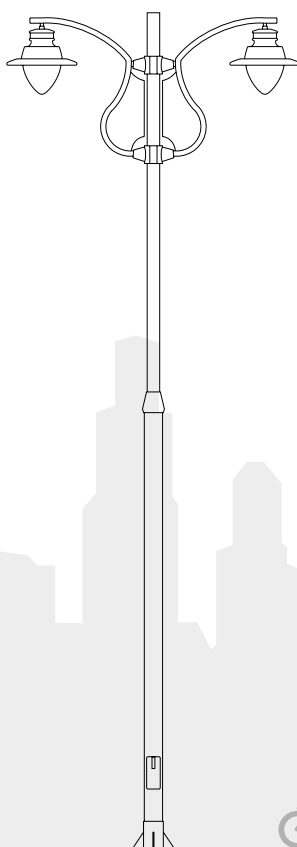
Type of durability / atmospheric corrosion category*		 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

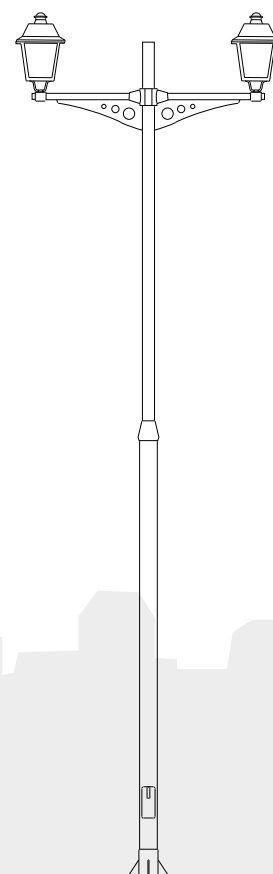
See expanded information on protection systems and finishes on pages 28 and 514 respectively



LINETECH 200
WITH ALYA



CLASSIC 200
WITH BORA



ECOCLASS 200 WITH
PRAGA M PRO

ACCESSORIES / REPLACEMENTS

Description	Finish	Order code
Triangular 10 mm key to close trapdoor	-	50-73265
Link banderole 200 d76-115 BKTECH	BKTECH	5-630102
Link banderole 200 d76-115 BKCLAS	BKCLAS	5-630202



LIMA

Simon LIMA decorative pole, up to 10.5 m high, square base, cylindrical shaft and lateral luminaire fastening with arms



Simon **LIMA** decorative pole, up to 10.5 m high, prismatic square base, cylindrical shaft and lateral luminaire fastening with arms.
 Flat flange plate with reinforcing ring and gussets, base, shaft and arm(s) made of S235JR- quality carbon steel sheet.

Flush trapdoor with interior reinforcement.

Lateral luminaire fastening through Ø60 mm x 250 mm cylindrical coupling, and 5° angle at end of arm.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised and painted finish. Base and arm(s) painted in Simon DGCLAS colour. Shaft painted in Simon GY9006 colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE- certified constancy of performance.

Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF and ALYA.

FASTENING SYSTEMS

Luminaire fastening Lateral fastening through Ø60 mm x 250 mm coupling, and 5° angle

Notes Anchoring bolts and template provided.
Luminaires not included.

FINISHES

Arm Galvanised and painted in DGCLAS colour (Standard Paint)

Shaft Galvanised and painted in GY9006 colour (Standard Paint)

Base Galvanised and painted in DGCLAS colour (Standard Paint)

Simon Colours (Standard Paint / Seafont Paint)

RAL chart colours (Standard Paint / Seafont Paint)

PHYSICAL FEATURES AND MATERIALS

IP IP3X. To get IP44, an internal connection box with IP44 is needed (not supplied with pole).

Shaft Cylindrical

Base Prismatic square

Trapdoor Flush with interior reinforcement

Construction Made up of base, shaft and arm(s)

Arm Carbon steel sheet, S235JR quality

Shaft Carbon steel sheet, S235JR quality

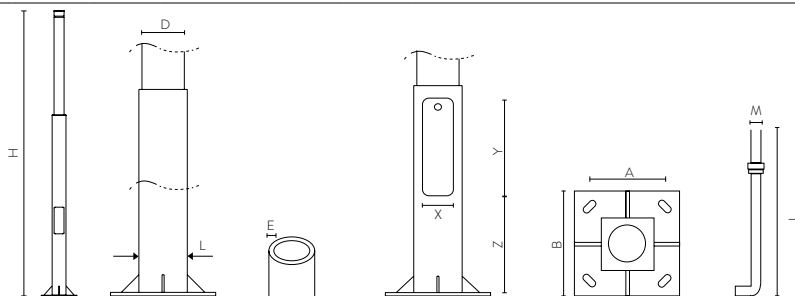
Base Carbon steel sheet, S235JR quality

Flange plate Flat steel sheet, S235JR quality, with reinforcing ring and gussets.

REGULATIONS AND CERTIFICATES

Support according to REGULATION EN 40-5

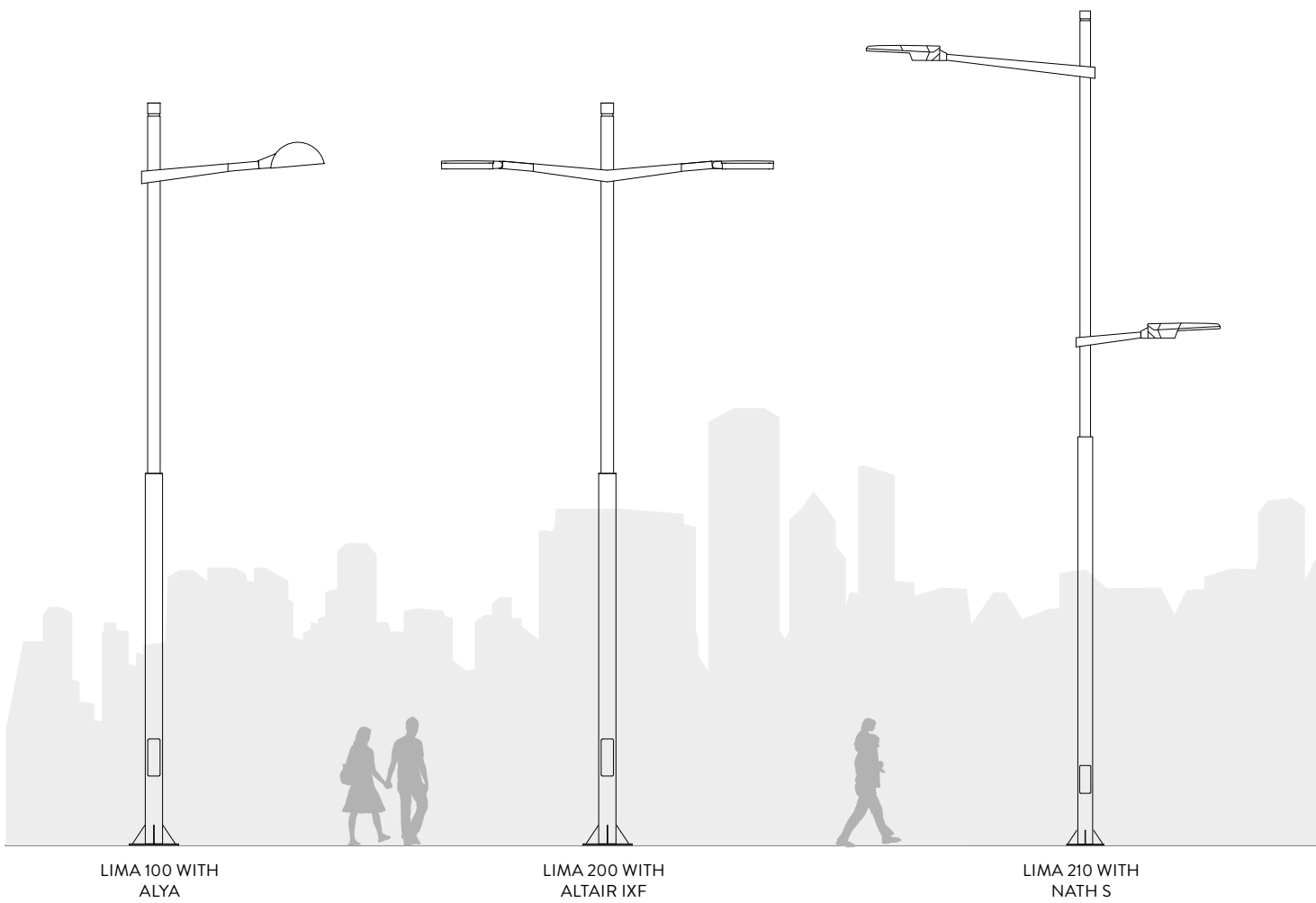
TECHNICAL INFORMATION* (Units in mm)



Model	Height	Base		Thickness	Door			Flange plate		Bolts	1 st Arm		2 nd Arm		Code
	H	∅ D	L	Base / Shaft	X	Y	Z	A	B	M x L	H1	L1	H2	L2	
100	6,000	100	140	4 / 3	100	300	550	285	400	M22 x 600	5,500	600	-	-	5-511821
	9,000	114	160	4 / 3	120	300	550	285	400	M22 x 600	8,500	1,500	-	-	5-511824
200	6,000	100	140	4 / 3	100	300	550	285	400	M22 x 600	5,500	600	5,500	600	5-511822
	10,500	140	175	4 / 3	130	300	550	350	500	M24 x 800	10,000	1,500	10,000	1,500	5-511825
210	8,500	114	160	4 / 3	120	300	550	285	400	M22 x 600	5,500	600	8,000	1,500	5-511823

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






LIMA 100 WITH ALYA

LIMA 200 WITH ALTAIR IXF

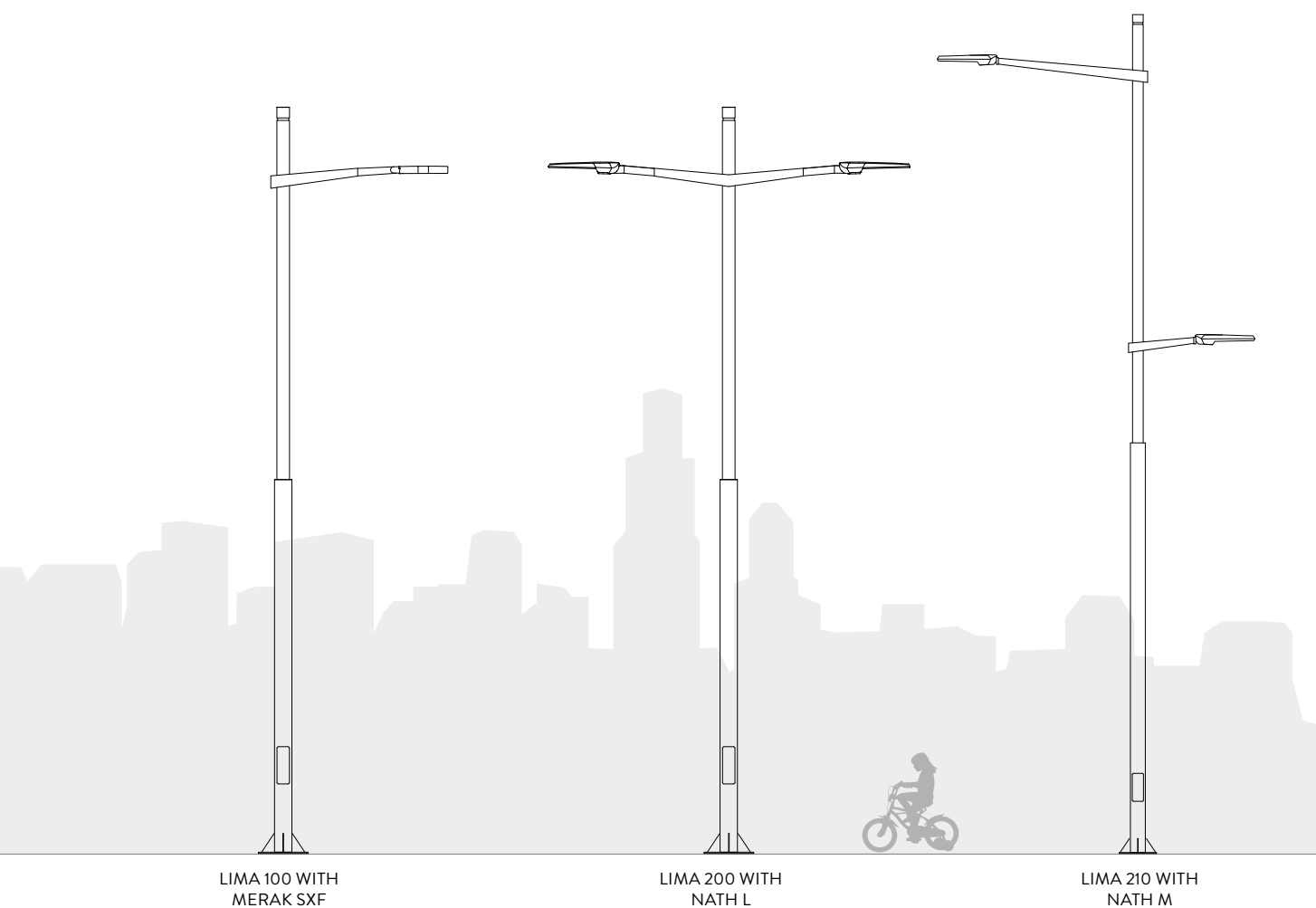
LIMA 210 WITH NATH S

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*		 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafrost Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



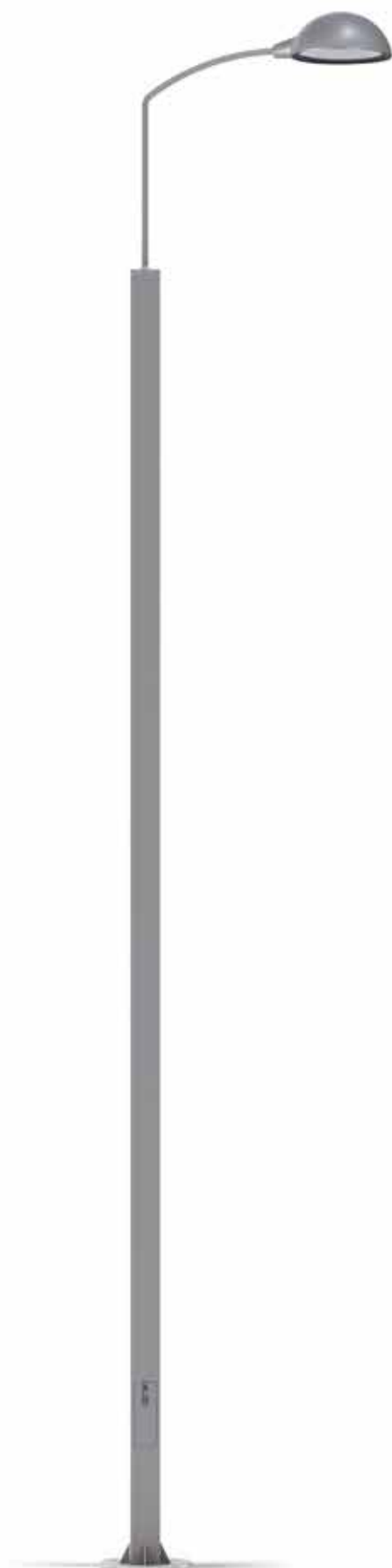
LIMA 100 WITH
MERAK SXF

LIMA 200 WITH
NATH L

LIMA 210 WITH
NATH M

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



TALYA LA

Decorative pole up to 7 m high, with prismatic square shaft and lateral luminaire fastening by means of rectangular 2-section arms.



Simon **TALYA LA** decorative pole, up to 7 m high, with prismatic square shaft and lateral luminaire fastening by means of rectangular 2-section arms. Flat flange plate with reinforcement and gussets, shaft and arm(s) made of S235JR-quality carbon steel sheet. Flush trapdoor with interior reinforcement. Lateral luminaire fastening through Ø60 mm x 120 mm cylindrical coupling at end of arm, angled at 5°. IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied. Hot dip galvanised and painted finish. Base and arm(s) painted in Simon GYDECO colour. Allows Simon and RAL chart finishes, as well as other protective finishes. Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included. Pole with CE-certified constancy of performance. Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF and ALYA.

FASTENING SYSTEMS

Luminaire fastening	Lateral fastening through Ø60 mm x 120 mm coupling, and 5° angle
Notes	Anchoring bolts and template provided. Luminaires not included.

FINISHES

Arm	Galvanised and painted in GYDECO colour (Standard Paint)
Shaft	Galvanised and painted in GYDECO colour (Standard Paint)
	Simon Colours (Standard Paint / Seafront Paint)
	RAL chart colours (Standard Paint / Seafront Paint)

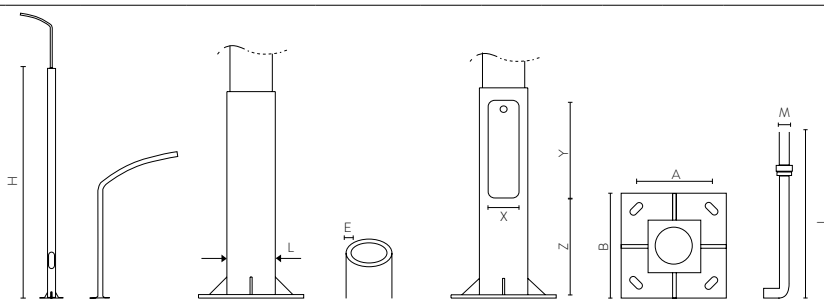
PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).
Arm	Rectangular section
Shaft	Prismatic square
Trapdoor	Flush with interior reinforcement
Construction	Made up of base, shaft and arm(s)
Arm	Carbon steel sheet, S235JR quality
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

REGULATIONS AND CERTIFICATES

Support according to:	REGULATION EN 40-5
------------------------------	--------------------

TECHNICAL INFORMATION* (Units in mm)



Model	Height	Arm section	Shaft	Thickness	Door			Flange plate		Bolts	1 st Arm		2 nd Arm		Code
	H				X	Y	Z	A	B		M x L	H1	L1	H2	
100	4,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	5,000	1,000	-	-	5-640730-013
	6,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	7,000	1,000	-	-	5-640731-013
101	4,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	5,000	1,500	-	-	5-640732-013
	6,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	7,000	1,500	-	-	5-640733-013
200	4,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	5,000	1,000	5,000	1,000	5-640750-013
	6,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	7,000	1,000	7,000	1,000	5-640751-013
201	4,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	5,000	1,000	5,000	1,500	5-640750-013
	6,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	7,000	1,000	7,000	1,500	5-640751-013
210	4,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	5,000	700	6,000	1,000	5-640740-013
	5,000	30x80	140x140	3	100	300	550	285	400	M18 x 600	6,000	700	7,000	1,000	5-640741-013
211	4,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	5,000	1,000	6,000	1,500	5-640742-013
	5,000	30x80	140x140	3	100	300	550	285	400	M18 x 600	6,000	1,000	7,000	1,500	5-640743-013

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






TALYA LA 100 WITH NATH S

TALYA LA 101 WITH NATH M

TALYA LA 200 WITH NATH L

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

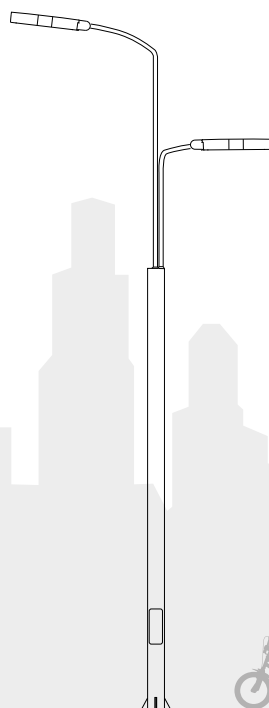
Type of durability / atmospheric corrosion category*		 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

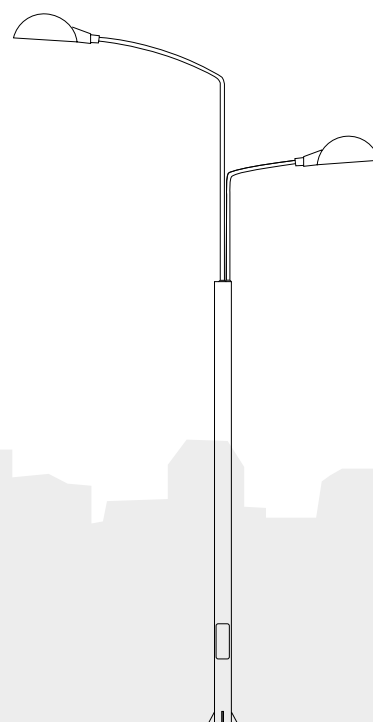
See expanded information on protection systems and finishes on pages 28 and 514 respectively



TALYA LA 201 WITH
ALTAIR IXF



TALYA LA 210 WITH
MERAK SXF



TALYA LA 211 WITH
ALYA



ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



TALYA LH

Decorative pole with arm up to 8 m high, with prismatic square shaft and suspended luminaire fastening by means of rectangular section semi-circular arms.



Simon **TALYA LH** decorative pole, up to 8 m high arm, with prismatic square shaft and suspended luminaire fastening by means of rectangular section semi-circular arms.

Flat flange plate with reinforcement and gussets, base and arm(s) made of S235JR-quality carbon steel sheet.

Flush trapdoor with interior reinforcement.

Suspended luminaire fastening by means of 3/4 "G screw at end of arm, in vertical position.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised and painted finish. Shaft painted in Simon BKTECH colour and arms painted in Simon WH9010 colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Recommended luminaires: ALYA and BORA.

FASTENING SYSTEMS

Luminaire fastening	Suspended fastening by means of 3/4 "G screw in vertical position
Notes	Anchoring bolts and template provided. Luminaires not included.

FINISHES

Arm	Galvanised and painted in WH9010 colour (Standard Paint)
Shaft	Galvanised and painted in BKTECH colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

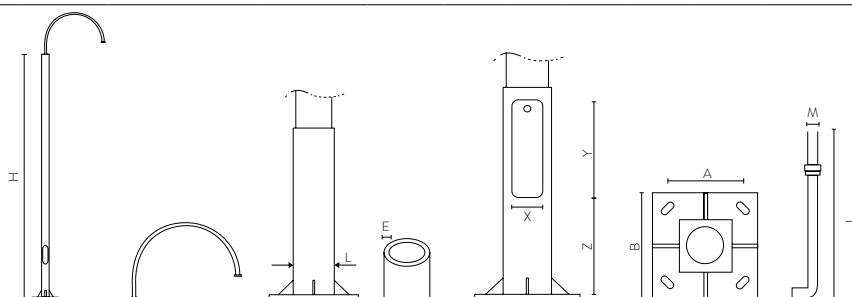
PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied on the pole).
Arm	Rectangular section
Shaft	Prismatic square
Trapdoor	Flush with interior reinforcement
Construction	Made up of shaft and arm(s)
Arm	Carbon steel sheet, S235JR quality
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

REGULATIONS AND CERTIFICATES

Support according to:	REGULATION EN 40-5
------------------------------	--------------------

TECHNICAL INFORMATION* (Units in mm)



Model	Height	Arm section	Shaft	Thickness	Door			Flange plate		Bolts	1 st Arm		2 nd Arm		Code
	H				L	E	X	Y	Z		A	B	M x L	H1	
100	4,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	4,000	1,000	-	-	5-640710-052
	5,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	5,000	1,000	-	-	5-640718-052
	6,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	6,000	1,000	-	-	5-640719-052
101	4,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	5,000	1,500	-	-	5-640711-052
	5,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	6,000	1,500	-	-	5-640720-052
	6,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	7,000	1,500	-	-	5-640712-052
200	4,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	4,000	1,000	4,000	1,000	5-640715-052
	5,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	5,000	1,000	5,000	1,000	5-640721-052
	6,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	6,000	1,000	6,000	1,000	5-640722-052
201	4,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	5,000	1,500	5,000	1,500	5-640716-052
	5,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	6,000	1,500	6,000	1,500	5-640723-052
	6,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	7,000	1,500	7,000	1,500	5-640717-052
201	4,000	30x80	140x140	3	100	300	550	215	300	M18 x 500	4,000	1,000	5,000	1,500	5-640713-052
	5,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	5,000	1,000	6,000	1,500	5-640724-052
	6,000	30x80	140x140	3	100	300	550	285	400	M22 x 600	6,000	1,000	7,000	1,500	5-640714-052

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






TALYA LH 100 WITH ALYA

TALYA LH 101 WITH ALYA

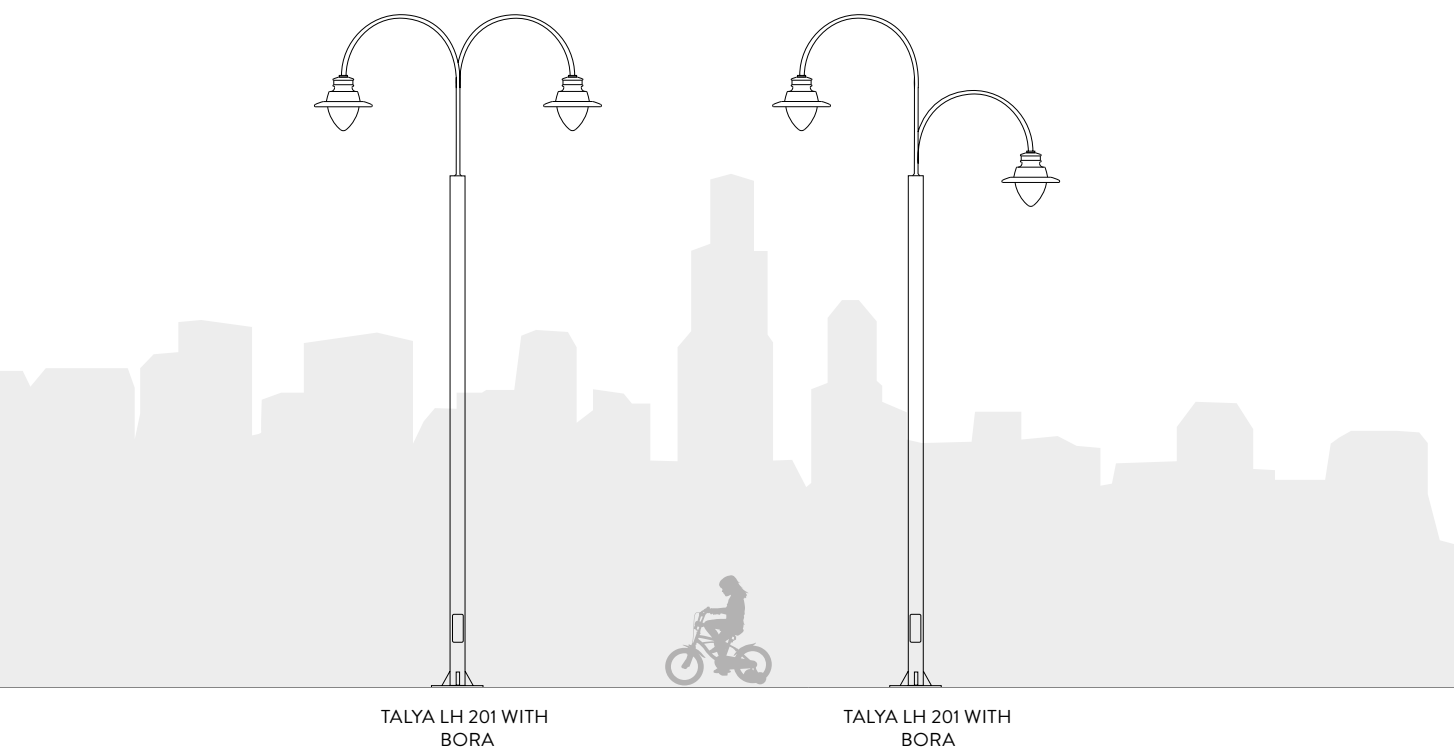
TALYA LH 200 WITH ALYA

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*		 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafrost Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



TALYA LH 201 WITH BORA

TALYA LH 201 WITH BORA

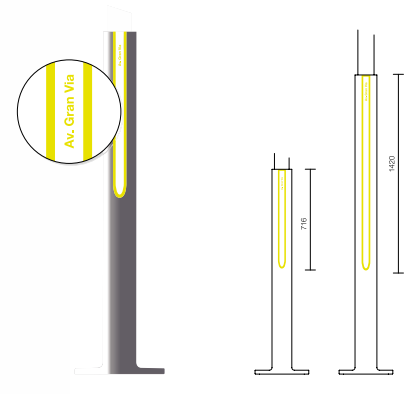
ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



LINET

Simon LINET decorative pole, up to 10 m high, customisable cylindrical base, cylindrical shaft and suspended luminaire fastening with arms.



Simon **LINET** decorative pole, up to 10 m high, customisable cylindrical base, cylindrical shaft and suspended luminaire fastening with arms.
 Flat flange plate made of die-cast aluminium with opal PMMA customisable and backlit area with AISI 316L stainless steel trim. Shaft manufactured in aluminium extrusion moulding. Arm(s) manufactured in aluminium.
 Flush trapdoor.
 Lateral luminaire fastening through arm.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Base finish painted in Simon ALOS colour. Base and arm(s) finish painted in SIMON GYTECH colour. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.
 Recommended luminaires: LORE.

FASTENING SYSTEMS

Luminaire fastening	Suspended fastening with specific piece for LORE luminaire
Notes	Anchoring bolts and template provided
Customisation	The LINET lighting point base has a specific area for client customisation. This area allows labelling as well as backlighting with LED technology. Available colours: daylight (5000 K), soft daylight (2700 K), red, green, blue and amber.

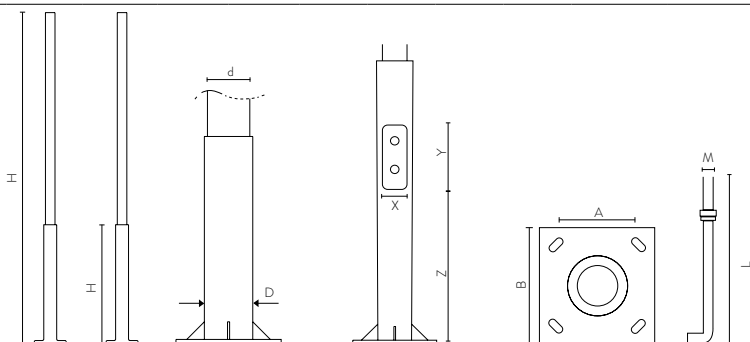
FINISHES

Arm	Painted in ALOS colour (Standard Paint)
Shaft	Painted in GYTECH colour (Standard Paint)
Base	Painted in ALOS colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied on the pole).
Arm	Prismatic square
Shaft	Semi-cylindrical
Base	Semi-cylindrical with customisation area
Trapdoor	Flush
Construction	Made up of base, shaft and arm(s)
Arm	Aluminium
Shaft	High-resistance extruded aluminium
Base with flange plate	Die-cast aluminium

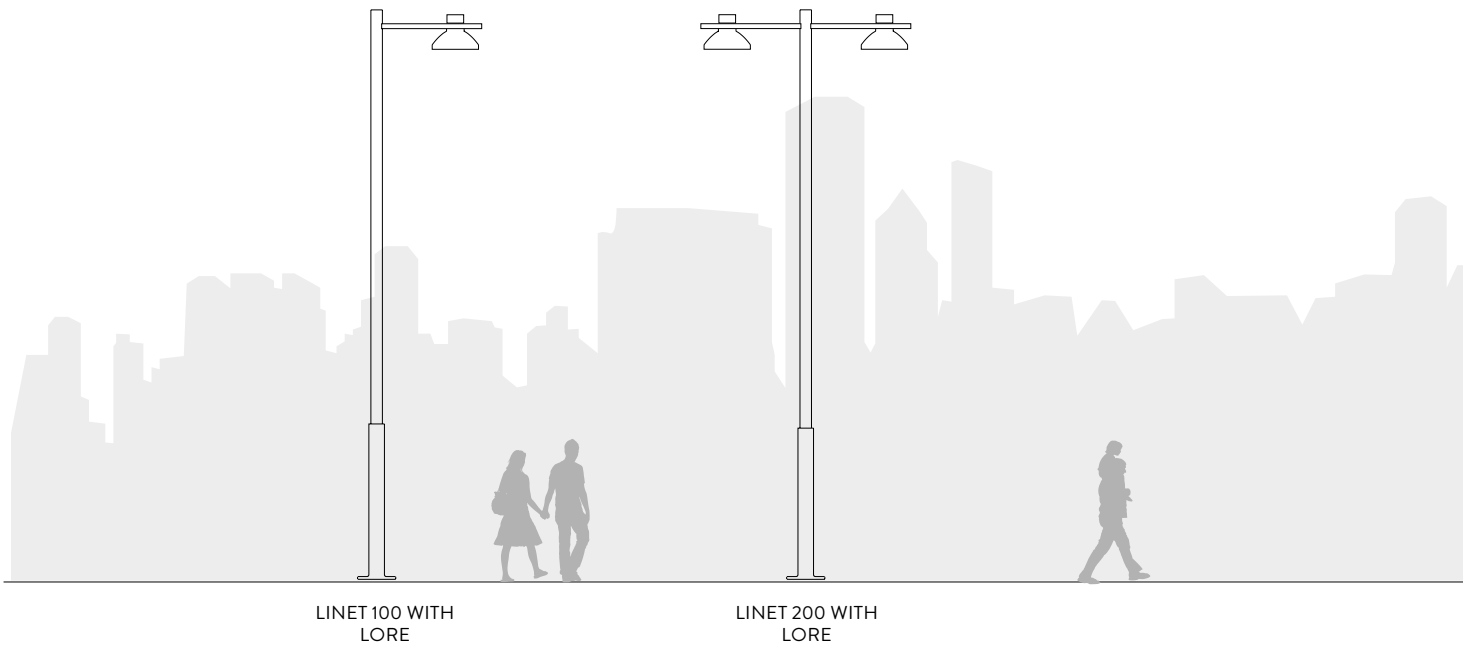
TECHNICAL INFORMATION* (Units in mm)



Model	Height		Base		Diameter			Door			Flange plate		Bolts		1 st Arm		2 nd Arm		Code
	H	H	H	H	∅ d	∅ D	X	Y	Z	A	B	M x L	H1	L1	H2	L2			
100	5,000	1,500	82	115	85	211	566	300	400	M22x600	5000	560	-	-	5-630872-051				
	7,500	2,200	82	127	85	211	566	300	400	M22x600	7500	810	-	-	5-630873-051				
	10,000	2,200	82	127	85	211	566	300	400	M22x600	10000	810	-	-	5-630874-051				
101	7,500	2,200	82	127	85	211	566	300	400	M22x600	7500	1150	-	-	5-630876-051				
	10,000	2,200	82	127	85	211	566	300	400	M22x600	10000	1150	-	-	5-630877-051				
200	5,000	1,500	82	115	85	211	566	300	400	M22x600	5000	560	5000	560	5-630892-051				
	7,500	2,200	82	127	85	211	566	300	400	M22x600	7500	810	7500	810	5-630893-051				
	10,000	2,200	82	127	85	211	566	300	400	M22x600	10000	810	10000	810	5-630894-051				
210	10,000	2,200	82	127	85	211	566	300	400	M22x600	5000	560	10000	810	5-630897-051				

* Check other measurements or configurations




RECOMMENDED LUMINAIRES (NOT INCLUDED)



LINET 100 WITH LORE

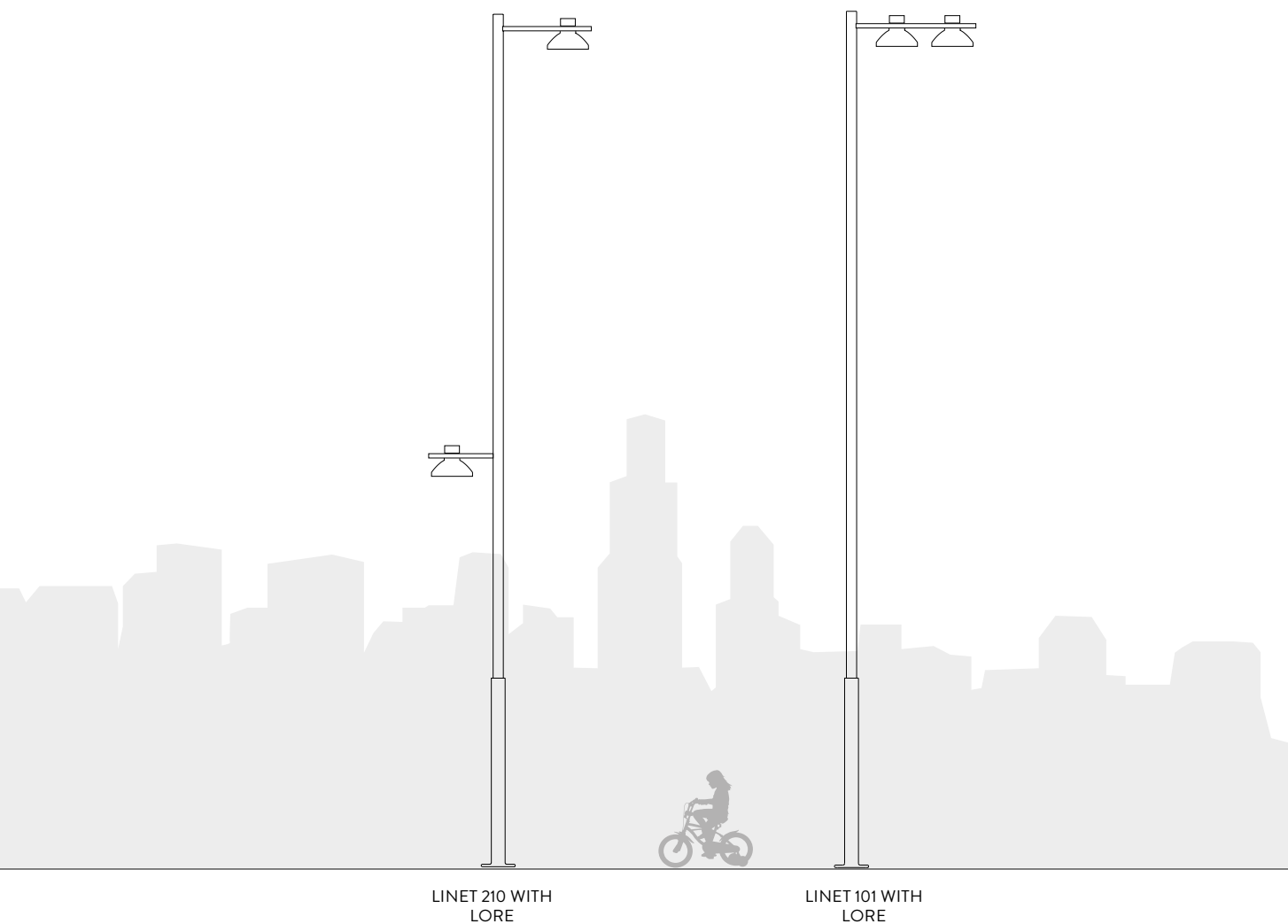
LINET 200 WITH LORE

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard Paint Finish	Average durability in corrosive environment C4.	✓	✓	✓
Seafront And Marine Paint Finish	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

See expanded information on protection systems and finishes on pages 28 and 514 respectively



LINET 210 WITH
LORE

LINET 101 WITH
LORE

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



LIBRA

Simon LIBRA decorative pole, up to 8 m high, conical tapering, and post top or arm luminaire fastening.



Simon **LIBRA** decorative pole, up to 8 m high, conical tapering, and post top or arm luminaire fastening.
 Flat flange plate with reinforcing ring and gussets, shaft and arm made of S235JR - quality carbon steel sheet.
 Flush trapdoor with interior reinforcement.

Post-top luminaire fastening through Ø60 mm x 100 mm cylindrical coupling on Ø76 mm tapered pole tip, or arm tip fastening through Ø60 mm x 100 mm cylindrical coupling in vertical position.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish. Base and arm(s) painted in Simon GY9007, GYDECO or GYTECH colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, ALTAIR IYF, MERAK SXF, MERAK SYF, HYDRA AND SKAT.

FASTENING SYSTEMS

Luminaire fastening	Post-top luminaire fastening through Ø60 mm x 100 mm coupling in vertical position
Notes	Anchoring bolts and template provided Luminaires not included

FINISHES

Arm	Galvanised and painted in GYDECO, GY9007 or GYTECH colour (Standard Paint)
Shaft	Galvanised and painted in GYDECO, GY9007 or GYTECH colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

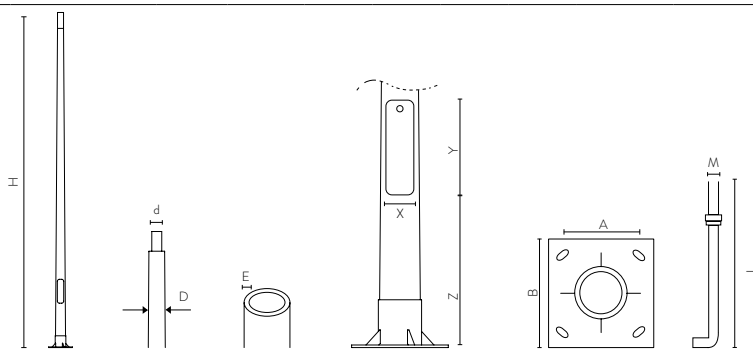
PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied on the pole).
Arm	Structural cylindrical tube
Shaft	Conical tapering
Trapdoor	Flush with interior reinforcement
Construction	Support manufactured in a single section (TOP model) Support manufactured in a single section and arm(s) (100 and 200 model)
Arm	Carbon steel sheet, S235JR quality
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Square flat steel sheet, S235JR quality, with reinforcing ring and gussets

REGULATIONS AND CERTIFICATES

Support according to: REGULATION EN 40-5

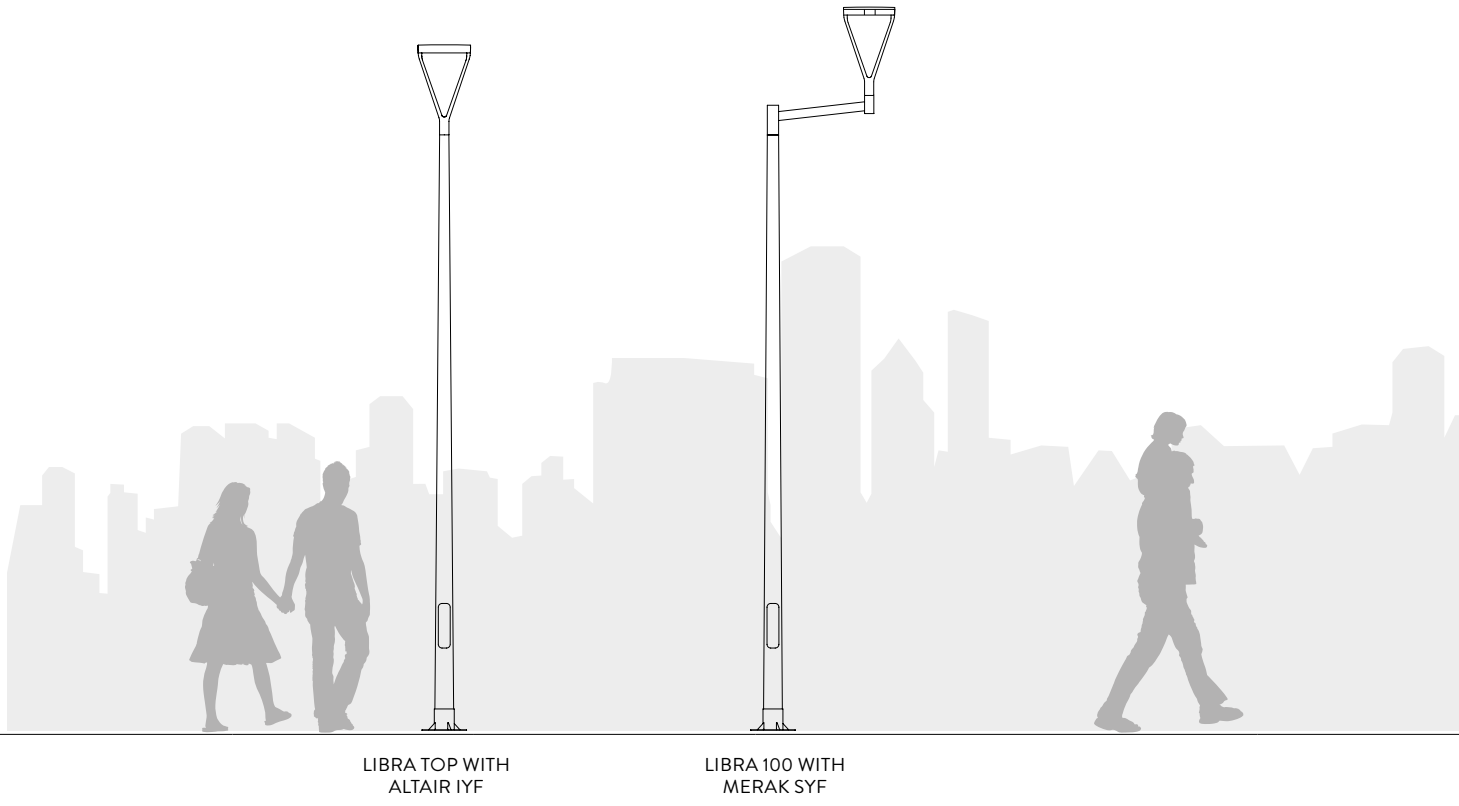
TECHNICAL INFORMATION* (Units in mm)



Model	Height H	Base		Thickness E	Door			Flange plate		Bolts M x L	1 st Arm		2 nd Arm		Finish	Code
		∅ d	∅ D		X	Y	Z	A	B		H1	L1	H2	L2		
TOP	4,000	60	76	3	100	300	550	215	300	M18x500	-	-	-	-	GYDECO	5-640501-013
	5,000	60	76	3	105	300	550	215	300	M18x500	-	-	-	-	GYDECO	5-640502-013
	6,000	60	76	3	105	300	550	215	300	M18x500	-	-	-	-	GYDECO	5-640503-013
	7,000	60	76	3	110	300	550	285	400	M22x600	-	-	-	-	GYDECO	5-640504-013
	8,000	60	76	3	125	300	550	285	400	M22x600	-	-	-	-	GYDECO	5-640505-013
100	4,000	60	76	3	100	300	550	215	300	M18x500	250	650	-	-	GYDECO	5-640511-013
	5,000	60	76	3	105	300	550	215	300	M18x500	250	650	-	-	GYDECO	5-640512-013
	6,000	60	76	3	105	300	550	215	300	M18x500	250	650	-	-	GYDECO	5-640513-013
	7,000	60	76	3	110	300	550	285	400	M22x600	250	650	-	-	GYDECO	5-640514-013
	8,000	60	76	3	125	300	550	285	400	M22x600	250	650	-	-	GYDECO	5-640515-013
200	4,000	60	76	3	100	300	550	215	300	M18x500	250	650	250	650	GYDECO	5-640530-013
	5,000	60	76	3	105	300	550	215	300	M18x500	250	650	250	650	GYDECO	5-640531-013
	6,000	60	76	3	105	300	550	215	300	M18x500	250	650	250	650	GYDECO	5-640532-013
	7,000	60	76	3	110	300	550	285	400	M22x600	250	650	250	650	GYDECO	5-640533-013
	8,000	60	76	3	125	300	550	285	400	M22x600	250	650	250	650	GYDECO	5-640534-013
Wall arm											250	650			GYDECO	5-640570-013

* Check other measurements or configurations

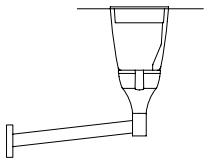
RECOMMENDED LUMINAIRES (NOT INCLUDED)



LIBRA TOP WITH
ALTAIR IYF

LIBRA 100 WITH
MERAQ SYF

WALL ARM:



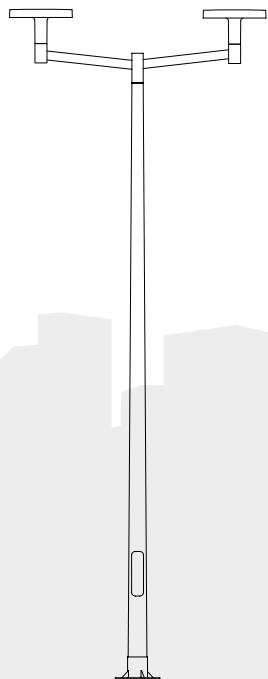
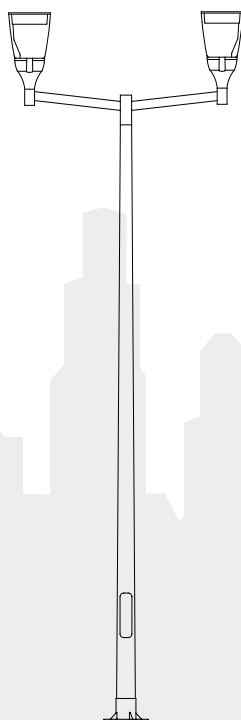
LIBRA
WITH HYDRA MPB

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection	Stick-less protection	Draw-less protection
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafrost Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively

LIBRA 200 WITH
SKATLIBRA 200 WITH
HYDRA

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



CL22

Simon CL22 decorative pole, up to 10 m high, with die-cast base of different heights, cylindrical shaft, and post-top luminaire fastening, or lateral luminaire fastening with arms.



Simon **CL22** decorative pole, up to 10 m high, with die-cast base of different heights, cylindrical shaft, and post-top luminaire fastening, or lateral luminaire fastening with arms.

Base with flange plate made of die-cast iron. Shaft and arm(s) made of S235JR-quality carbon steel sheet.

Flush trapdoor.

Lateral luminaire fastening through Ø60 mm x 90 mm cylindrical coupling in horizontal position at end of arm, or post-top fastening through Ø60 mm x 100 mm cylindrical coupling or 3/4" G screw.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Finish for base painted in Simon DGCLAS, GY9007, GYDECO, BKCLAS, BKTECH or BK9005 colour. Finish for shaft and arm(s) hot dip galvanised and painted in Simon DGCLAS, GY9007, GYDECO, BKCLAS, BKTECH or BK9005 colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, ALTAIR IYF, MERAK SXF, MERAK SYF, ALYA, BERLIN, PRAGA M PRO and PRAGA M BASIC."

FASTENING SYSTEMS

Luminaire fastening	Post-top luminaire fastening through Ø60 mm x 100 mm coupling or 3/4" G screw in vertical position Arm(s): Lateral fastening through Ø60 mm x 90 mm coupling in horizontal position
Notes	Anchoring bolts and template provided Luminaires not included

FINISHES

Arm	Galvanised and painted in DGCLAS, GY9007, GYDECO, BKCLAS, BKTECH or BK9005 colour (Standard Paint)
Shaft	Galvanised and painted in DGCLAS, GY9007, GYDECO, BKCLAS, BKTECH or BK9005 colour (Standard Paint)
Base	Painted in DGCLAS, GY9007, GYDECO, BKCLAS, BKTECH or BK9005 colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

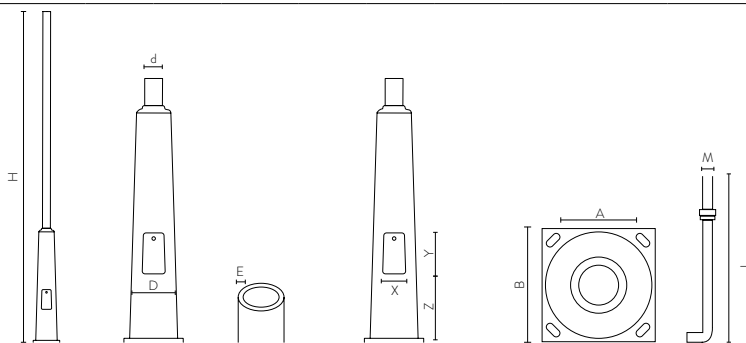
PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	Cylindrical
Trapdoor	850 mm base: flush on plate vertex 1320 mm base: flush on side of plate 2000 mm base: flush on side of plate
Construction	Cylindrical die-cast base assembly through stainless steel screws
Arm	Carbon steel sheet, S235JR quality
Shaft	Carbon steel sheet, S235JR quality
Base	Die-cast iron
Flange plate	Die-cast iron

REGULATIONS AND CERTIFICATES

Support according to: -

TECHNICAL INFORMATION* (Units in mm)






Model	Height	Base		Thickness	Door			Flange plate		Bolts	1 st Arm		2 nd Arm		Finish	Code
	H	∅ d	∅ D		E	X	Y	Z	A		B	M x L	H1	L1		
850 mm base	3,500	60	100	3	137	225	392	260	312	M18x500	-	-	-	-	DGCLAS	S-590926
	3,500	¾"G	100	3	137	225	392	260	312	M18x500	-	-	-	-	DGCLAS	S-591001
	3,500	-	100	3	137	225	392	260	312	M18x500	3,100	400	-	-	DGCLAS	S-590915
	3,500	-	100	3	137	225	392	260	312	M18x500	3,100	400	3,100	400	DGCLAS	S-590918
	4,000	60	100	3	137	225	392	260	312	M18x500	-	-	-	-	DGCLAS	S-590927
	4,000	¾"G	100	3	137	225	392	260	312	M18x500	-	-	-	-	DGCLAS	S-591002
	4,000	-	100	3	137	225	392	260	312	M18x500	3,600	400	-	-	DGCLAS	S-590916
	4,000	-	100	3	137	225	392	260	312	M18x500	3,600	400	3,600	400	DGCLAS	S-590919
	4,500	60	100	3	137	225	392	260	312	M18x500	-	-	-	-	DGCLAS	S-590928
	4,500	¾"G	100	3	137	225	392	260	312	M18x500	-	-	-	-	DGCLAS	S-591003
	4,500	-	100	3	137	225	392	260	312	M18x500	4,100	400	-	-	DGCLAS	S-590917
	4,500	-	100	3	137	225	392	260	312	M18x500	4,100	400	4,100	400	DGCLAS	S-590920

* Check other measurements or configurations

1320 mm base	3,500	60	100	3	151	240	400	260	312	M18x500	-	-	-	-	DGCLAS	S-590922
	3,500	¾"G	100	3	151	240	400	260	312	M18x500	-	-	-	-	DGCLAS	S-591011
	3,500	-	100	3	151	240	400	260	312	M18x500	3,100	400	-	-	DGCLAS	S-590908
	3,500	-	100	3	151	240	400	260	312	M18x500	3,100	400	3,100	400	DGCLAS	S-590911
	4,000	60	100	3	151	240	400	260	312	M18x500	-	-	-	-	DGCLAS	S-590923
	4,000	¾"G	100	3	151	240	400	260	312	M18x500	-	-	-	-	DGCLAS	S-591012
	4,000	-	100	3	151	240	400	260	312	M18x500	3,600	400	-	-	DGCLAS	S-590923
	4,000	-	100	3	151	240	400	260	312	M18x500	3,600	400	3,600	400	DGCLAS	S-590909
	4,500	60	100	3	151	240	400	260	312	M18x500	-	-	-	-	DGCLAS	S-590924
	4,500	¾"G	100	3	151	240	400	260	312	M18x500	-	-	-	-	DGCLAS	S-591013
	4,500	-	100	3	151	240	400	260	312	M18x500	4,100	400	-	-	DGCLAS	S-590910
	4,500	-	100	3	151	240	400	260	312	M18x500	4,100	400	4,100	400	DGCLAS	S-590913
	5,000	60	100	3	151	240	400	260	312	M18x500	-	-	-	-	DGCLAS	S-590925
	5,000	¾"G	100	3	151	240	400	260	312	M18x500	-	-	-	-	DGCLAS	S-591014
	5,000	-	100	3	151	240	400	260	312	M18x500	4,600	400	-	-	DGCLAS	S-590921
	5,000	-	100	3	151	240	400	260	312	M18x500	4,600	400	4,600	400	DGCLAS	S-590914
	2000 mm base	5,500	60	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS
5,500		¾"G	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-591021
5,500		-	133	3	150	350	520	300	400	M22x600	5,100	400	-	-	DGCLAS	S-590982
5,500		-	133	3	150	350	520	300	400	M22x600	5,100	400	5,100	400	DGCLAS	S-590992
6,000		60	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-590973
6,000		¾"G	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-591022
6,000		-	133	3	150	350	520	300	400	M22x600	5,600	400	-	-	DGCLAS	S-590983
6,000		-	133	3	150	350	520	300	400	M22x600	5,600	400	5,600	400	DGCLAS	S-590993
6,500		60	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-590974
6,500		¾"G	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-591023
6,500		-	133	3	150	350	520	300	400	M22x600	6,100	400	-	-	DGCLAS	S-590984
6,500		-	133	3	150	350	520	300	400	M22x600	6,100	400	6,100	400	DGCLAS	S-590994
7,000		60	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-590975
7,000		¾"G	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-591024
7,000		-	133	3	150	350	520	300	400	M22x600	6,600	400	-	-	DGCLAS	S-590985
7,000		-	133	3	150	350	520	300	400	M22x600	6,600	400	6,600	400	DGCLAS	S-590995
7,500		¾"G	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-591025
7,500		-	133	3	150	350	520	300	400	M22x600	7,100	400	-	-	DGCLAS	S-590986
7,500		-	133	3	150	350	520	300	400	M22x600	7,100	400	7,100	400	DGCLAS	S-590996
8,000		60	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-590977
8,000		¾"G	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-591026
8,000		-	133	3	150	350	520	300	400	M22x600	7,600	400	-	-	DGCLAS	S-590987
8,000		-	133	3	150	350	520	300	400	M22x600	7,600	400	7,600	400	DGCLAS	S-590997
9,000		60	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-590978
9,000		¾"G	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-591027
9,000		-	133	3	150	350	520	300	400	M22x600	8,600	400	-	-	DGCLAS	S-590988
9,000		-	133	3	150	350	520	300	400	M22x600	8,600	400	8,600	400	DGCLAS	S-590998
10,000		60	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-590979
10,000		¾"G	133	3	150	350	520	300	400	M22x600	-	-	-	-	DGCLAS	S-591028
10,000		-	133	3	150	350	520	300	400	M22x600	9,600	400	-	-	DGCLAS	S-590989
10,000	-	133	3	150	350	520	300	400	M22x600	9,600	400	9,600	400	DGCLAS	S-590999	

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

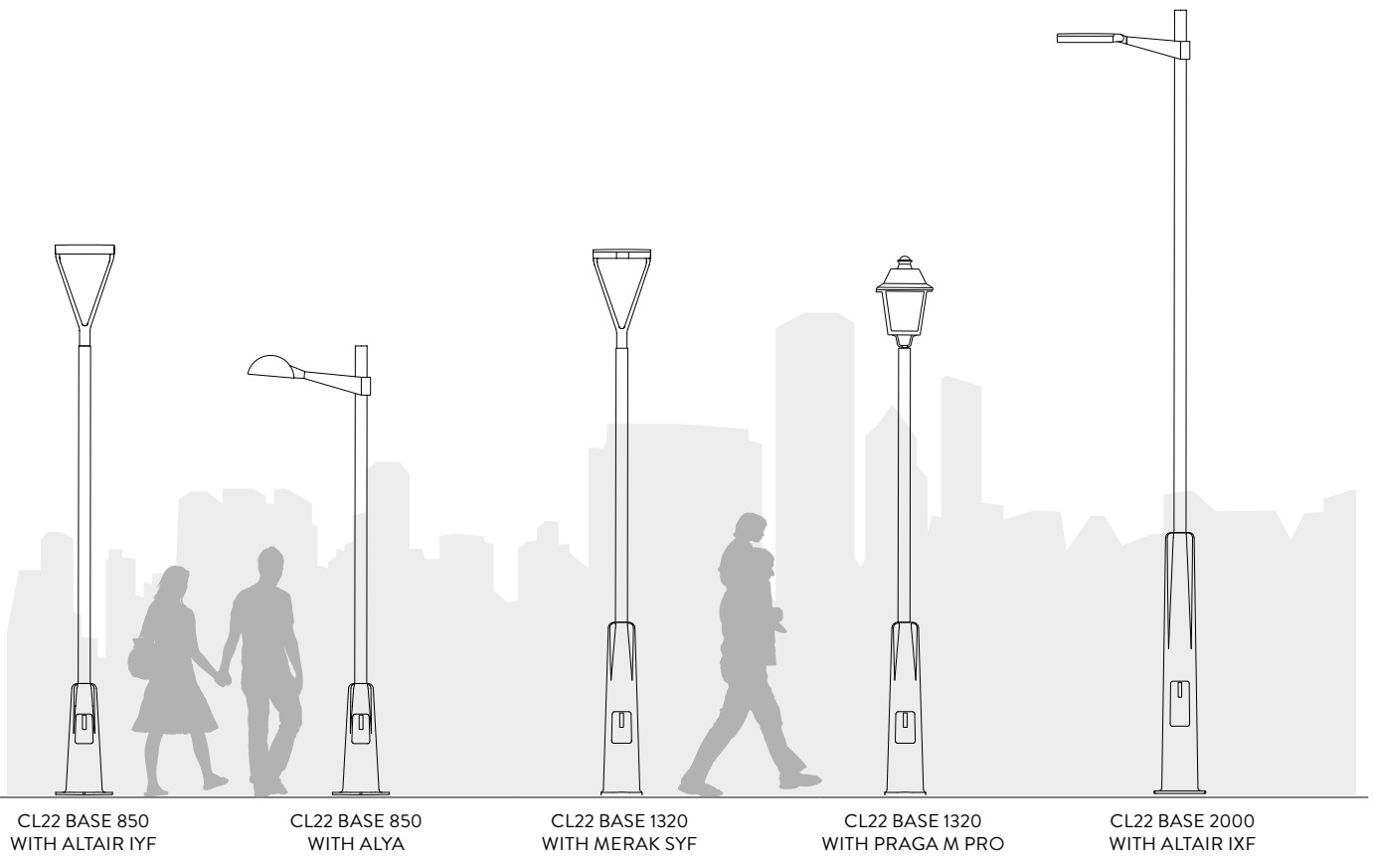
Type of durability / atmospheric corrosion category*		 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafrost Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

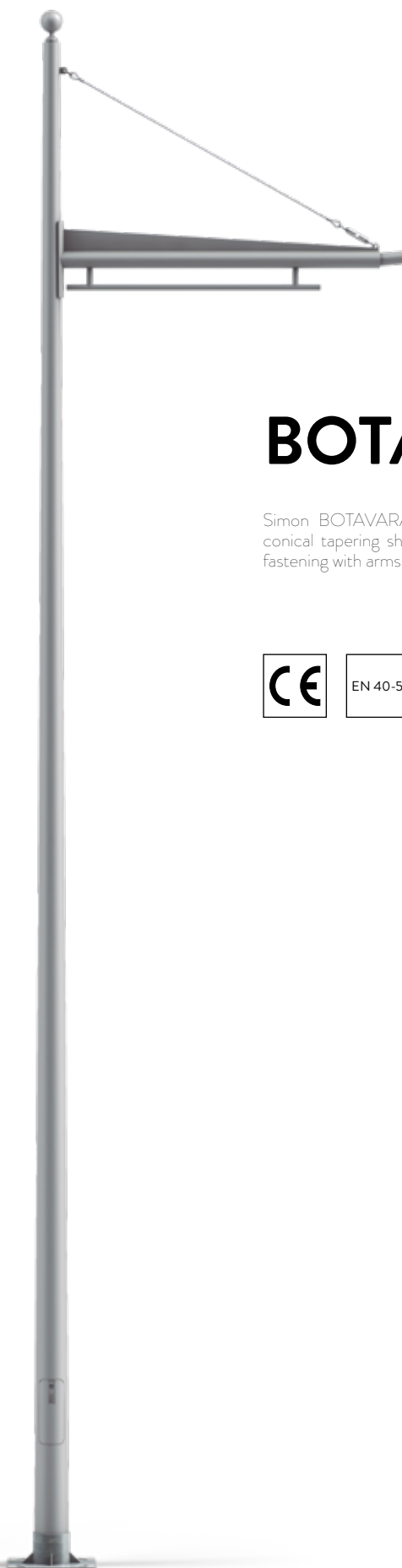
See expanded information on protection systems and finishes on pages 28 and 514 respectively

RECOMMENDED LUMINAIRES (NOT INCLUDED)



ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



BOTAVARA

Simon BOTAVARA decorative pole, up to 12 m high, conical tapering shaft and lateral or suspended luminaire fastening with arms with rod.



Simon **BOTAVARA** decorative pole, up to 12 m high, conical tapering shaft and lateral or suspended luminaire fastening with arms with rod.
 Flat flange plate with reinforcing ring and gussets, shaft and arm(s) made of S235JR - quality carbon steel sheet.
 Flush trapdoor with interior reinforcement.
 Lateral luminaire fastening through Ø60 mm x 120 mm cylindrical coupling, and 5° angle at end of arm, or suspended fastening by means of 3/4 "G screw at end of arm.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.
 Pole with CE - certified constancy of performance.
 Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF, ALYA, BORA and PRAGA M PRO.

FASTENING SYSTEMS

Luminaire fastening	E: lateral fastening through Ø60 mm x 120 mm coupling at 5° angle F: suspended fastening by means of 3/4 "G screw in vertical position
Notes	Anchoring bolts and template provided Luminaires not included

FINISHES

Arm	Galvanised
Shaft	Galvanised
	Simon chart colours (Standard Paint / Seafront Paint)
	RAL chart colours (Standard Paint / Seafront Paint)

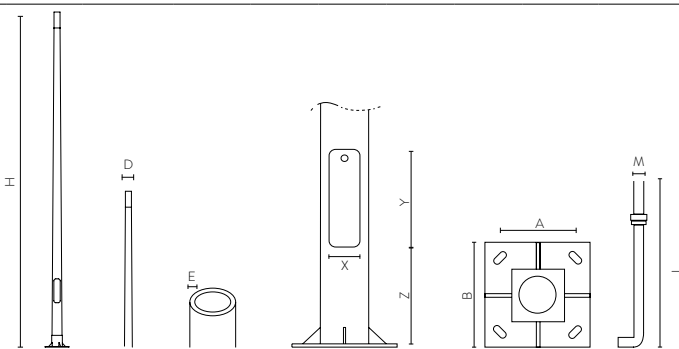
PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	Conical tapering
Trapdoor	Flush with interior reinforcement
Construction	Support manufactured in a single section and arm(s) with rod
Rod	Stainless steel
Arm	Carbon steel sheet, S235JR quality
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

REGULATIONS AND CERTIFICATES

Support according to: REGULATION EN 40-5

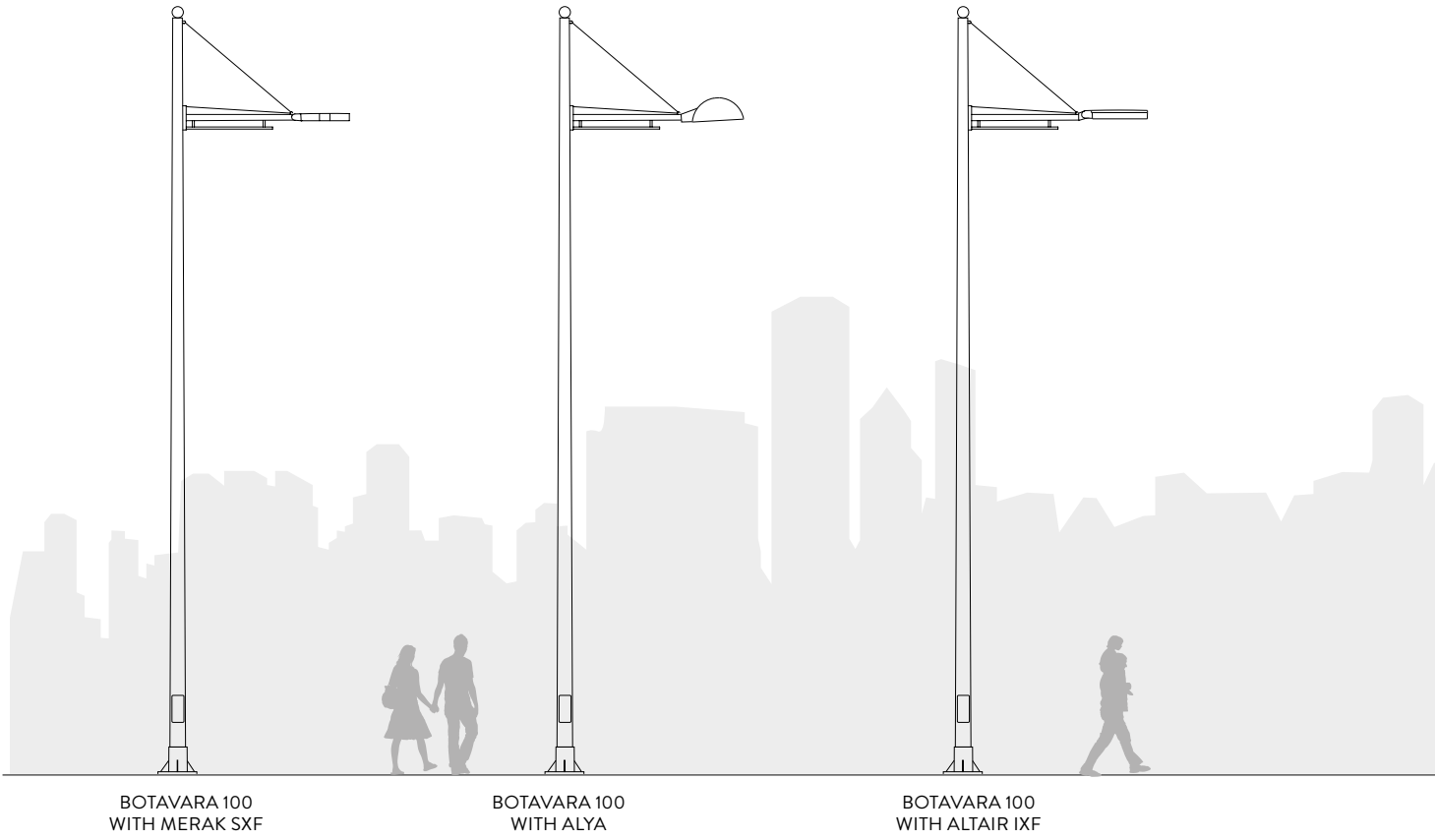
TECHNICAL INFORMATION* (Units in mm)



Model	Height	Diameter	Thickness	Door			Flange plate		Bolts	1 st Arm			2 nd Arm			End	Code
	H	Ø D	E	X	Y	Z	A	B	M x L	H1	L1	ORI.	H2	L2	ORI.		
100	5,000	76	3	95	300	550	215	300	M18 x 500	4,000	1,500	F	-	-	-	ball	S-557105
	6,000	76	3	110	300	550	215	300	M18 x 500	5,000	1,500	F	-	-	-	ball	S-557106
	7,000	76	3	115	300	550	285	400	M22 x 600	6,000	1,500	E	-	-	-	ball	S-557107
	8,000	76	3	120	300	550	285	400	M22 x 600	7,000	1,500	E	-	-	-	ball	S-557108
	9,000	76	3	125	300	550	285	400	M22 x 600	8,000	1,500	E	-	-	-	ball	S-557109
	10,000	76	4	130	300	550	285	400	M22 x 600	9,000	1,500	E	-	-	-	ball	S-557110
200	7,000	76	3	115	300	550	285	400	M22 x 600	6,000	1,500	E	6,000	1,500	E	ball	S-557107
	8,000	76	3	120	300	550	285	400	M22 x 600	7,000	1,500	E	7,000	1,500	E	ball	S-557108
210	7,000	76	3	115	300	550	285	400	M22 x 600	4,000	1,500	F	6,000	1,500	E	ball	S-557307
	8,000	76	3	120	300	550	285	400	M22 x 600	4,000	1,500	F	7,000	1,500	E	ball	S-557308
	9,000	76	4	125	300	550	285	400	M22 x 600	4,000	1,500	F	8,000	1,500	E	ball	S-557309
	10,000	76	4	130	300	550	285	400	M22 x 600	5,000	1,500	F	9,000	1,500	E	ball	S-557310
	12,000	88	4	140	300	550	285	400	M22 x 600	5,000	1,500	F	11,000	1,500	E	ball	S-557312

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






BOTAVARA 100 WITH MERAK SXF

BOTAVARA 100 WITH ALYA

BOTAVARA 100 WITH ALTAIR IXF

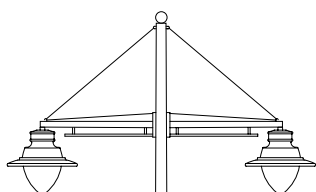
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

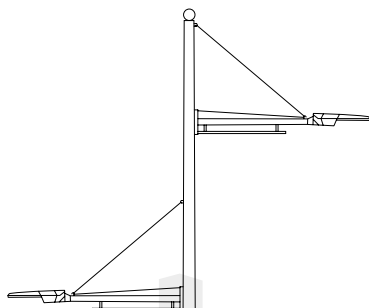
* According to EN ISO 12944

** According to EN ISO 1461

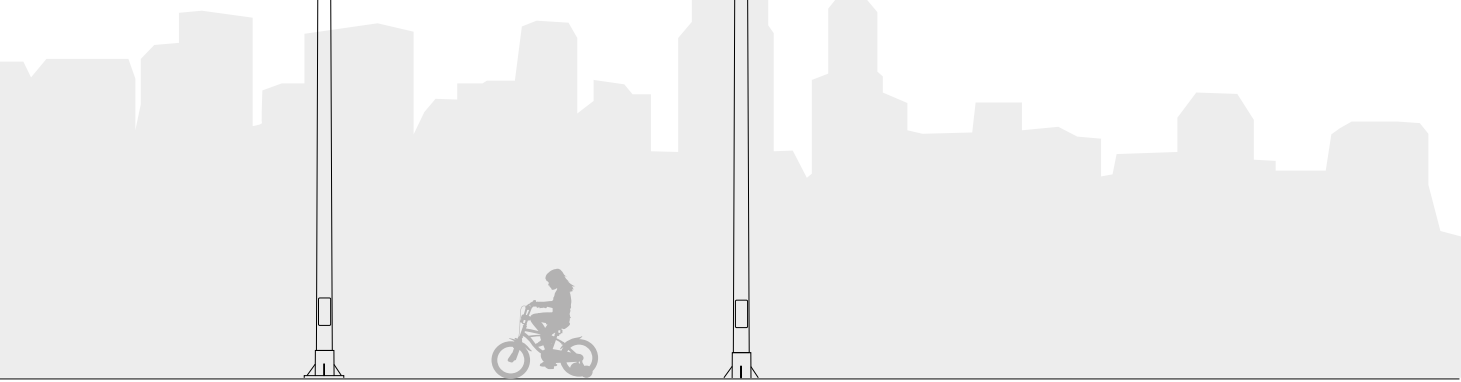
See expanded information on protection systems and finishes on pages 28 and 514 respectively



BOTAVARA 200
WITH BORA



BOTAVARA 210
WITH NATH S



ACCESSORIES / REPLACEMENTS

Description

Order code

Triangular 10 mm key to close trapdoor

50-73265



DIAGONAL

Simon DIAGONAL decorative pole, up to 10 m high, conical tapering shaft and lateral luminaire fastening with arms.



Simon **DIAGONAL** decorative pole, up to 10 m high, conical tapering shaft and lateral luminaire fastening with arms. Flat flange plate with reinforcing ring and gussets, shaft and arm(s) made of S235JR-quality carbon steel sheet. Flush trapdoor with interior reinforcement. Lateral luminaire fastening through Ø60 mm x 250 mm cylindrical coupling, and 5° angle at end of arm. IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied. Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes. Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included. Pole with CE-certified constancy of performance. Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF and ALYA.

FASTENING SYSTEMS

Luminaire fastening E: lateral fastening through Ø60 mm x 250 mm coupling at 5° angle

Notes Anchoring bolts and template provided
Luminaires not included

FINISHES

Arm Galvanised
Shaft Galvanised
Simon Colours (Standard Paint / Seafront Paint)
RAL chart colours (Standard Paint / Seafront Paint)

PHYSICAL FEATURES AND MATERIALS

IP IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)

Shaft Conical tapering

Trapdoor Flush with interior reinforcement

Construction Support manufactured in a single section and arm(s)

Arm Carbon steel sheet, S235JR quality

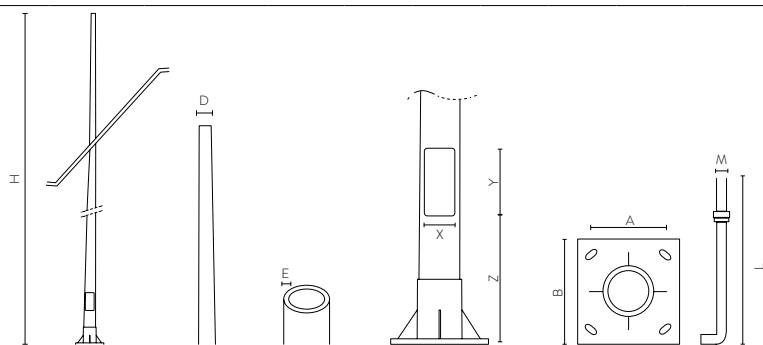
Shaft Carbon steel sheet, S235JR quality

Flange plate Flat steel sheet, S235JR quality, with reinforcing ring and gussets

REGULATIONS AND CERTIFICATES

Support according to: REGULATION EN 40-5

TECHNICAL INFORMATION* (Units in mm)






Model	Height	Diameter	Thickness	Door			Flange plate		Bolts	1 st Arm			2 nd Arm			Code
	H			X	Y	Z	A	B		M x L	H1	L1	ORI.	H2	L2	
100	8,000	76	3	120	300	550	285	400	M22 x 600	7,000	1,400	E	-	-	-	S-468108
	9,000	76	3	125	300	550	285	400	M22 x 600	8,000	1,400	E	-	-	-	S-468109
	10,000	76	4	130	300	550	285	400	M22 x 600	9,000	1,400	E	-	-	-	S-468110
200	8,000	76	3	120	300	550	285	400	M22 x 600	5,000	870	E	7,000	1,400	E	S-468208
	9,000	76	3	125	300	550	285	400	M22 x 600	6,000	870	E	8,000	1,400	E	S-468209
	10,000	76	4	130	300	550	285	400	M22 x 600	7,000	870	E	9,000	1,400	E	S-468210

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)



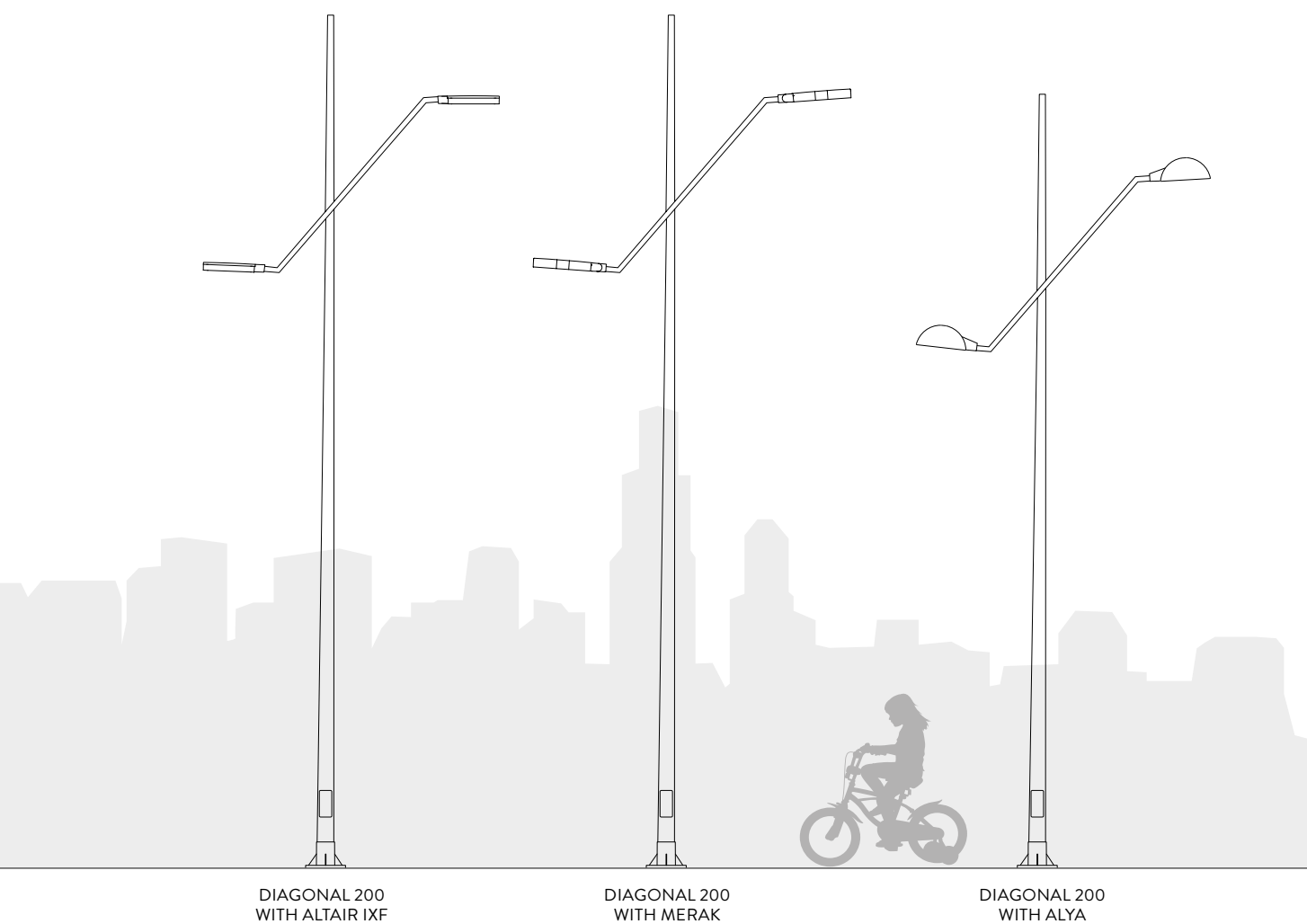
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



DIAGONAL 200
WITH ALTAIR IXF

DIAGONAL 200
WITH MERAK

DIAGONAL 200
WITH ALYA

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



ESBELTA

Simon ESBELTA decorative pole, up to 12 m high, conical tapering shaft, and lateral or suspended luminaire fastening with arms.



Simon **ESBELTA** decorative pole, up to 12 m high, conical tapering shaft, and lateral or suspended luminaire fastening with arms.

Flat flange plate with reinforcing ring and gussets, shaft and arm(s) made of S235JR - quality carbon steel sheet.

Flush trapdoor with interior reinforcement.

Lateral luminaire fastening through Ø60 mm x 180 mm cylindrical coupling, and 5° angle at end of arm, or suspended fastening by means of 3/4 "G screw at end of arm.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE - certified constancy of performance.

Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF, ALYA, BORA and PRAGA M PRO.

FASTENING SYSTEMS

Luminaire fastening	E: lateral fastening through Ø60 mm x 180 mm coupling at 5° angle. F: suspended fastening by means of 3/4 "G screw in vertical position.
Notes	Anchoring bolts and template provided Luminaires not included

FINISHES

Arm	Galvanised
Shaft	Galvanised
	Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

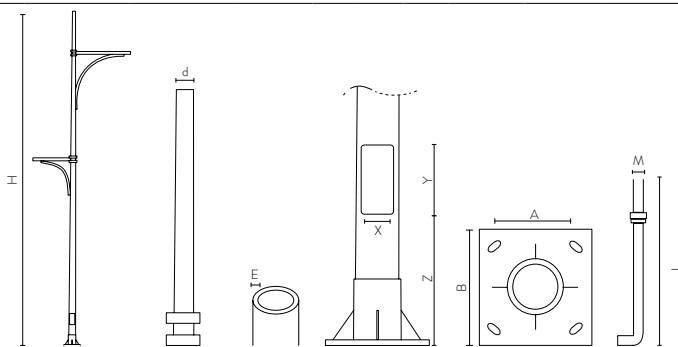
PHYSICAL FEATURES AND MATERIALS

IP	IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	Conical tapering
Trapdoor	Flush with interior reinforcement
Construction	Support manufactured in a single section and arm(s)
Arm	Carbon steel sheet, S235JR quality
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

REGULATIONS AND CERTIFICATES

Support according to: REGULATION EN 40-5

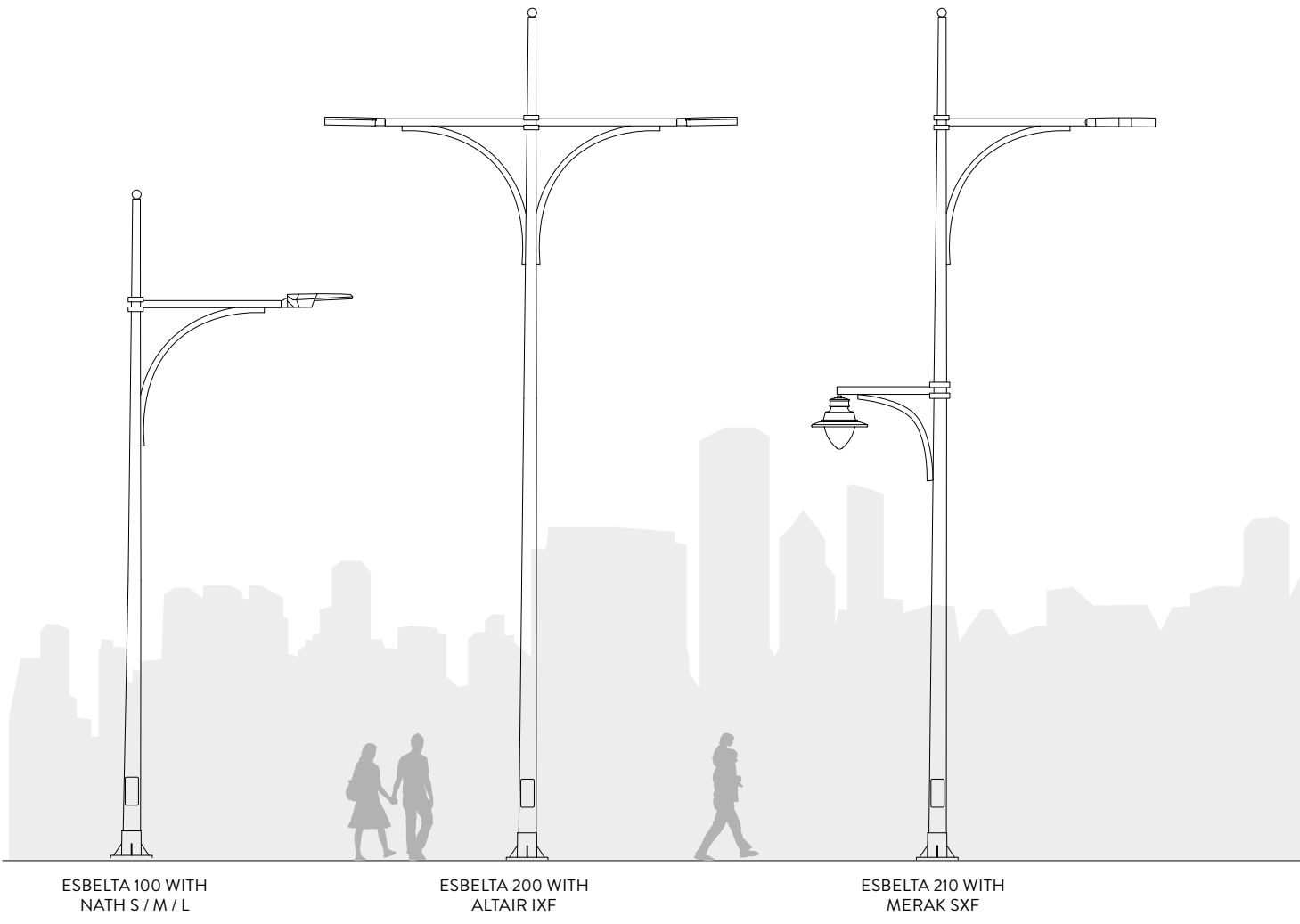
TECHNICAL INFORMATION* (Units in mm)



Model	Height	Shaft Ø d	Thickness E	Door			Flange plate		Bolts M x L	1 st Arm			2 nd Arm			End	Code
	H			X	Y	Z	A	B		H1	L1	Orientation	H2	L2	Orientation		
100	5,000	60	3	95	300	550	215	300	M18x500	4,000	1,000	F	-	-	-	ball	S-488105
	7,000	76	3	115	300	550	285	400	M22x600	6,000	1,500	E	-	-	-	ball	S-488107
	8,000	76	3	120	300	550	285	400	M22x600	7,000	1,500	E	-	-	-	ball	S-488108
	9,000	76	3	125	300	550	285	400	M22x600	8,000	1,500	E	-	-	-	ball	S-488109
	10,000	76	4	130	300	550	285	400	M22x600	9,000	1,500	E	-	-	-	ball	S-488110
200	7,000	76	3	115	300	550	285	400	M22x600	6,000	1,500	E	6,000	1,500	E	ball	S-488207
	8,000	76	3	120	300	550	285	400	M22x600	7,000	1,500	E	7,000	1,500	E	ball	S-488208
210	7,000	76	3	115	300	550	285	400	M22x600	4,000	750	F	6,000	1,500	E	ball	S-488307
	8,000	76	3	120	300	550	285	400	M22x600	4,000	1,000	F	7,000	1,500	E	ball	S-488308
	9,000	76	4	125	300	550	285	400	M22x600	4,000	1,000	F	8,000	1,500	E	ball	S-488309
	10,000	76	4	130	300	550	285	400	M22x600	4,000	1,000	F	9,000	1,500	E	ball	S-488310
	12,000	88	4	140	300	550	285	400	M22x600	5,000	1,500	F	11,000	1,500	E	ball	S-488312

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)



ESBELTA 100 WITH NATH S / M / L

ESBELTA 200 WITH ALTAIR IXF

ESBELTA 210 WITH MERAK SXF

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*	Acid-less protection	Stick-less protection	Draw-less protection
Standard finish: hot dip galvanised**	✓		
Standard Paint Finish: hot dip galvanised** and painted Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



ESBELTA 100 WITH ALYA

ESBELTA 200 WITH BORA

ESBELTA 210 WITH NATH M

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



BANDEROLE

Simon BANDEROLE CL16 decorative pole, up to 3.9 m high, with cylindrical base and cylindrical shaft, and suspended luminaire fastening with arms.

Simon BANDEROLE CL0 decorative pole, up to 12 m high, with conical tapering shaft, lateral or suspended luminaire fastening with arms, and post-top luminaire fastening.



Simon **BANDEROLE CLO** decorative pole, up to 12 m high, with conical tapering shaft, lateral or suspended luminaire fastening with arms, and post-top luminaire fastening. Flat flange plate with reinforcing ring and gussets, shaft and arm(s) made of S235JR-quality carbon steel sheet. Flush trapdoor with interior reinforcement. Lateral luminaire fastening through Ø60 mm x 120 mm cylindrical coupling, and 5° angle at end of arm, or suspended fastening by means of 3/4 "G screw at end of arm, or post top fastening through Ø60 mm x 110 mm coupling on Ø76 mm conical tip of pole. IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied. Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes. Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included. Pole with CE-certified constancy of performance. Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF, ALYA, BORA and PRAGA M PRO. Simon **BANDEROLE CLA16** decorative pole, up to 3.9 m high, with cylindrical base and cylindrical shaft, and suspended luminaire fastening with arms. Flat flange plate with gussets, base, trim, shaft and arm(s) made of S235JR-quality carbon steel sheet. Flush trapdoor with interior reinforcement. Suspended luminaire fastening by means of 3/4 "G screw at end of arm, in vertical position. IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied. Hot dip galvanised finish and painted in Simon DGCLAS, GYDECO or BKCLAS colour. Possibility of Simon and RAL chart finishes, as well as other protective finishes. Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included. Pole with CE-certified constancy of performance. Recommended luminaires: ALYA, BORA and PRAGA M PRO.

FASTENING SYSTEMS

Luminaire fastening Banderole CLA16	F: suspended fastening by means of ¾"G screw at end of arm in vertical position
Luminaire fastening Banderole CLO	E: lateral fastening through Ø60 mm x 120 mm coupling at 5° angle F: suspended fastening by means of ¾" G screw in vertical position Post-top fastening through Ø60 mm x 110 mm coupling
Notes	Anchoring bolts and template provided Luminaires not included

PHYSICAL FEATURES AND MATERIALS

IP	IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	CLO: Conical tapering CL16: Cylindrical
Base	CL16: Cylindrical
Trapdoor	Flush with interior reinforcement
Construction	CLO: Support manufactured in a single section and arm(s) CL16: Two cylindrical sections and arm(s)
Arm	Carbon steel sheet, S235JR quality
Shaft	Carbon steel sheet, S235JR quality
Base	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

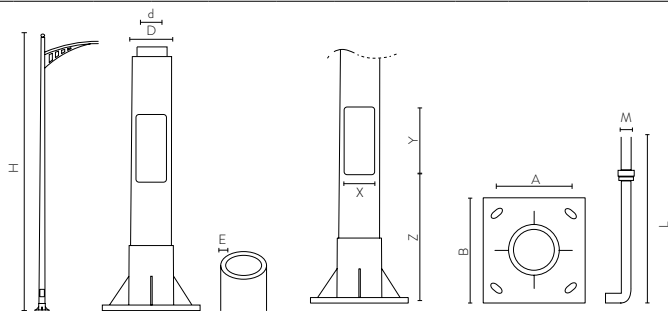
FINISHES

	CLA16 type	CLO type
Arm	Galvanised and painted in DGCLAS, GYDECO or BKCLAS colour (Standard Paint)	Galvanised
Shaft	Galvanised and painted in DGCLAS, GYDECO or BKCLAS colour (Standard Paint)	Galvanised
Base	Galvanised and painted in DGCLAS, GYDECO or BKCLAS colour (Standard Paint)	-
	Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)	

REGULATIONS AND CERTIFICATES

Support according to: REGULATION EN 40-5

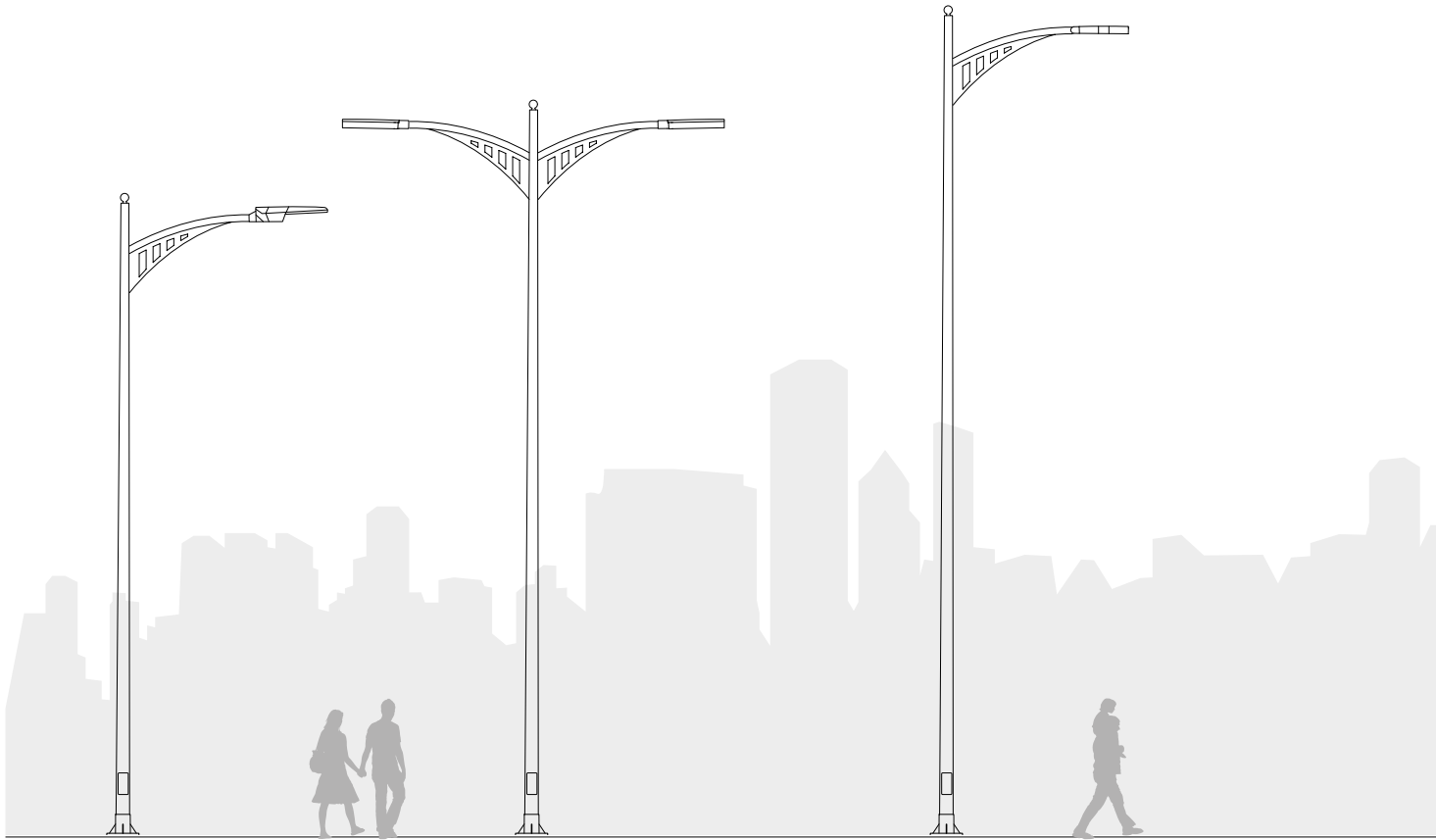
TECHNICAL INFORMATION* (Units in mm)



Model	Height	Base		Thickness	Door			Flange plate		Bolts	1 st Arm		2 nd Arm		End	Finish	Code		
		Ø D	Ø d		E	X	Y	Z	A		B	M x L	H1	L1				ORI.	H2
CLA16 101	3,600	127	100	3	100	300	650	215	300	M18x500	3,000	1,150	F	-	-	-	ball	DGCLAS	S-478135
	3,900	127	100	3	100	300	650	215	300	M18x500	3,500	1,150	F	-	-	-	ball	DGCLAS	S-478104
CLA16 201	3,600	127	100	3	100	300	650	215	300	M18x500	3,000	1,150	F	3,000	1,150	F	ball	DGCLAS	S-478235
	3,900	127	100	3	100	300	650	215	300	M18x500	3,500	1,150	F	3,500	1,150	F	ball	DGCLAS	S-478204
CLO 100	5,000	-	60	3	95	300	550	215	300	M18x500	4500	1150	F	-	-	-	ball	-	S-477105
	6,000	-	60	3	110	300	550	215	300	M18x500	5500	1150	F	-	-	-	ball	-	S-477106
	7,000	-	76	3	115	300	550	285	400	M22x600	6500	1150	E	-	-	-	ball	-	S-477107
	8,000	-	76	3	120	300	550	285	400	M22x600	7500	1150	E	-	-	-	ball	-	S-477108
	9,000	-	76	3	125	300	550	285	400	M22x600	8500	1150	E	-	-	-	ball	-	S-477109
CLO 110	7,000	-	76	3	-	300	550	285	400	M22x600	4000	1150	F	-	-	-	Ø60	-	S-477307
	8,000	-	76	3	-	300	550	285	400	M22x600	4000	1150	F	-	-	-	Ø60	-	S-477308
	9,000	-	76	3	-	300	550	285	400	M22x600	4000	1150	F	-	-	-	Ø60	-	S-477309
CLO 200	5,000	-	76	3	95	300	550	215	300	M18x500	4500	1150	F	4500	1150	F	ball	-	S-477205
	6,000	-	76	3	110	300	550	215	300	M18x500	5500	1150	F	5500	1150	F	ball	-	S-477206
CLO 210	7,000	-	76	3	115	300	550	285	400	M22x600	4000	1150	F	6500	1150	E	ball	-	S-477407
	8,000	-	76	3	120	300	550	285	400	M22x600	4000	1150	F	7500	1150	E	ball	-	S-477408
	9,000	-	76	4	125	300	550	285	400	M22x600	4000	1150	F	8500	1150	E	ball	-	S-477409
	10,000	-	76	4	130	300	550	285	400	M22x600	5000	1150	F	9500	1150	E	ball	-	S-477410
	12,000	-	88	4	140	300	550	285	400	M22x600	5000	1150	F	11500	1150	E	ball	-	S-477412

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






BANDEROLE CL0 101
WITH NATH S / M / L

BANDEROLE CL0 201
WITH ALTAIR IXF

BANDEROLE CL0 100
WITH MERAK SXF

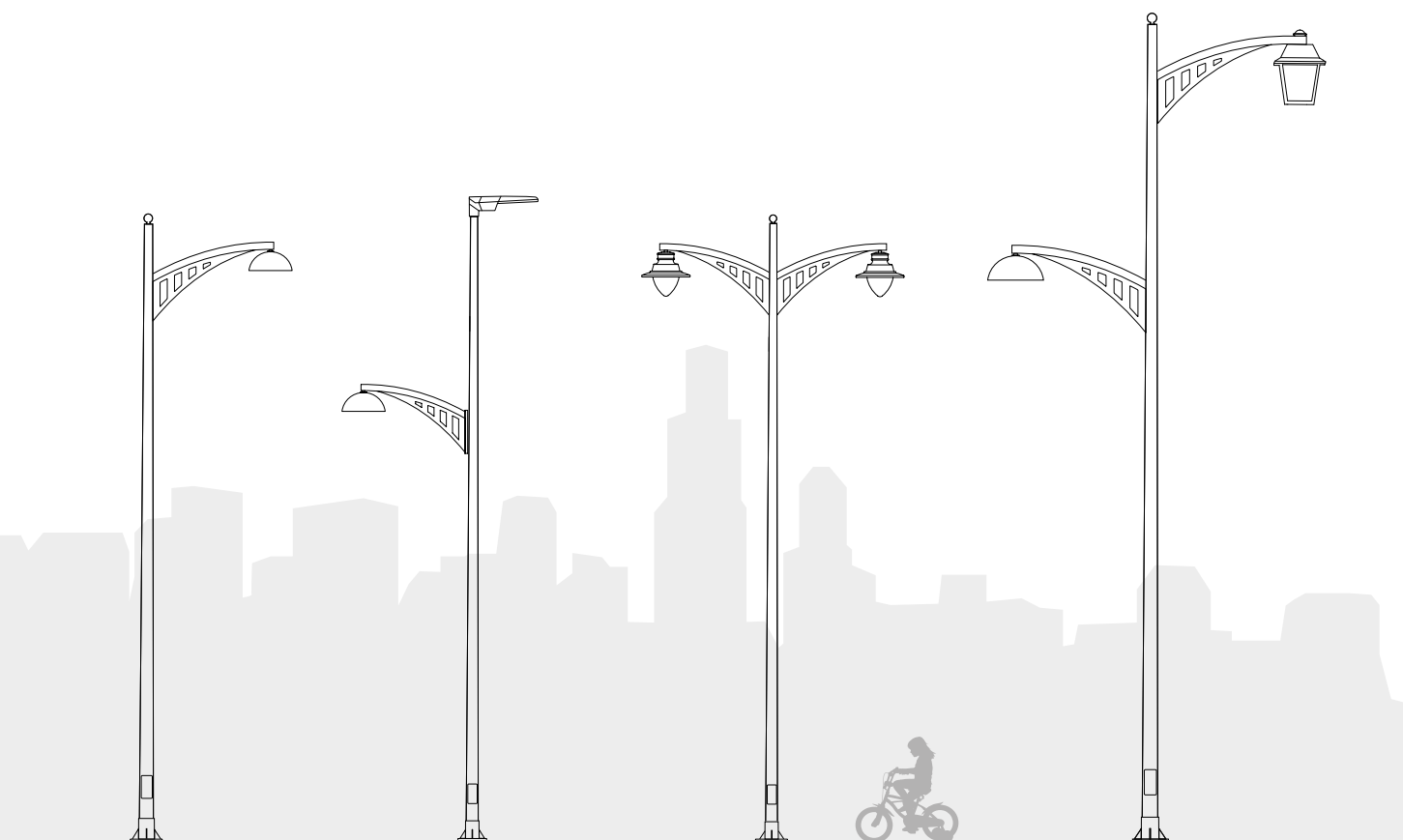
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



BANDEROLE CL0 100
WITH ALYA

BANDEROLE CL0 110
WITH ALYA AND NATH

BANDEROLE CL0 201
WITH BORA

BANDEROLE CL0 210
WITH PRAGA M PRO

ACCESSORIES / REPLACEMENTS

Description

Order code

Triangular 10 mm key to close trapdoor

50-73265



BABEL

Simon BABEL decorative pole, up to 4 m high, with cylindrical base, telescopic cylindrical shaft with 2 sections, and post-top luminaire fastening.



Simon **BABEL** decorative pole, up to 4 m high, with cylindrical base, telescopic cylindrical shaft with 2 sections, and post-top luminaire fastening.
 Flat flange plate with gussets, base and shaft made of S235JR - quality carbon steel sheet.
 Flush trapdoor with interior reinforcement.
 Post-top luminaire fastening through Ø60 mm x 150 mm cylindrical coupling.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Hot dip galvanised finish and painted in Simon DGCLAS and GYDECO colour. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.
 Pole with CE-certified constancy of performance.
 Recommended luminaires: ALTAIR IYF, MERAK SYF, HYDRA and SKAT.

FASTENING SYSTEMS

Luminaire fastening	Post top through Ø60 mm x 150 mm coupling
Notes	Anchoring bolts and template provided Luminaires not included

PHYSICAL FEATURES AND MATERIALS

IP	IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	Structural cylindrical tube
Base	Structural cylindrical tube
Trapdoor	Flush with interior reinforcement
Construction	Three cylindrical sections
Shaft	Carbon steel sheet, S235JR quality
Base	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality with gussets

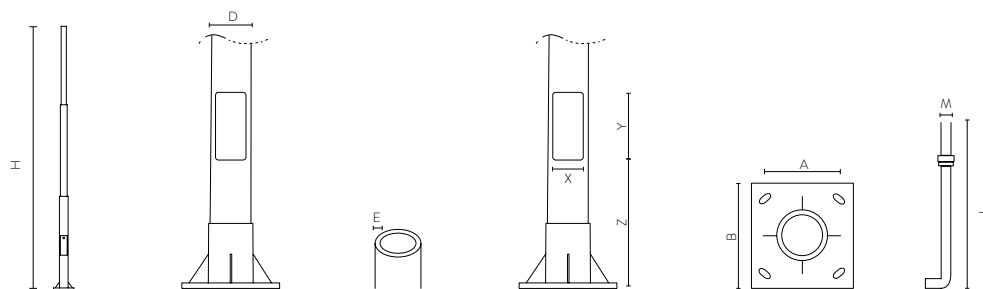
FINISHES

Shaft	Galvanised and painted in DGCLAS or GYDECO colour (Standard Paint)
Base	Galvanised and painted in DGCLAS or GYDECO colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

REGULATIONS AND CERTIFICATES

Support according to:	REGULATION EN 40-5
------------------------------	--------------------

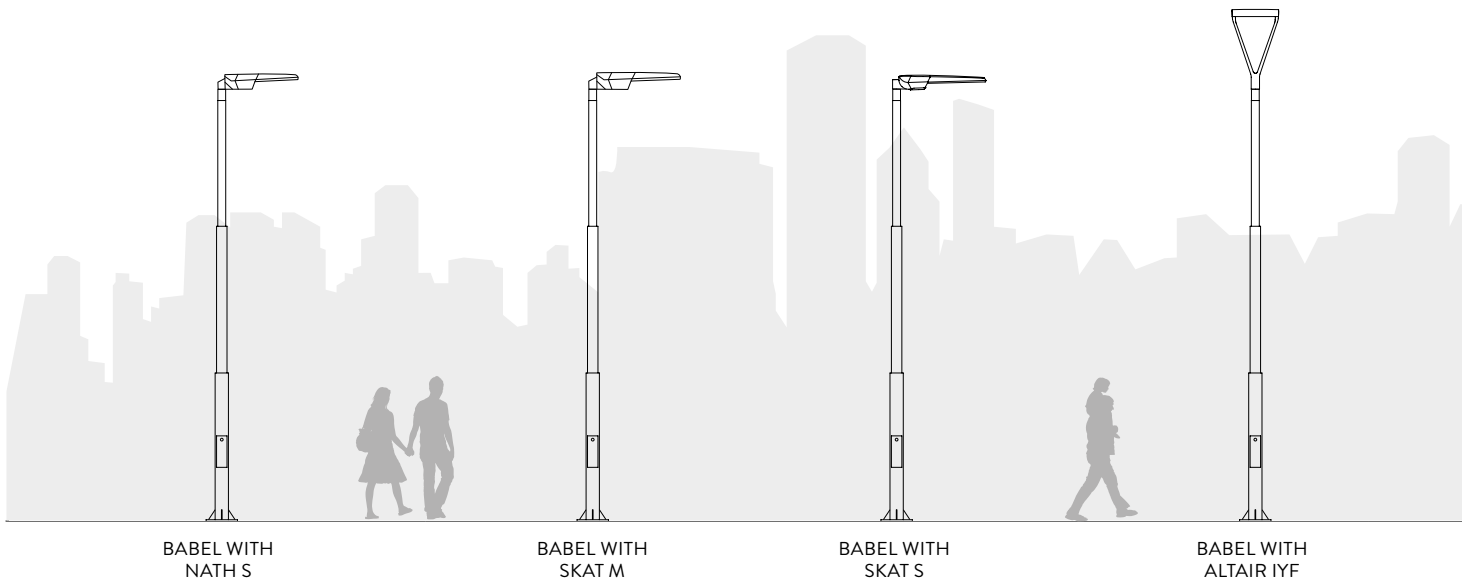
TECHNICAL INFORMATION* (Units in mm)






Height	Base			Thickness	Door			Flange plate		Bolts	Finish	Code
	Ø D1	Ø D2	Ø D3		E	X	Y	Z	A			
H				E	X	Y	Z	A	B	M x L		
4,000	127	100	76	3	100	300	500	215	300	M18x500	DGCLAS	S-511283
4,000	127	100	76	3	100	300	500	215	300	M18x500	GYDECO	5-514499

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)

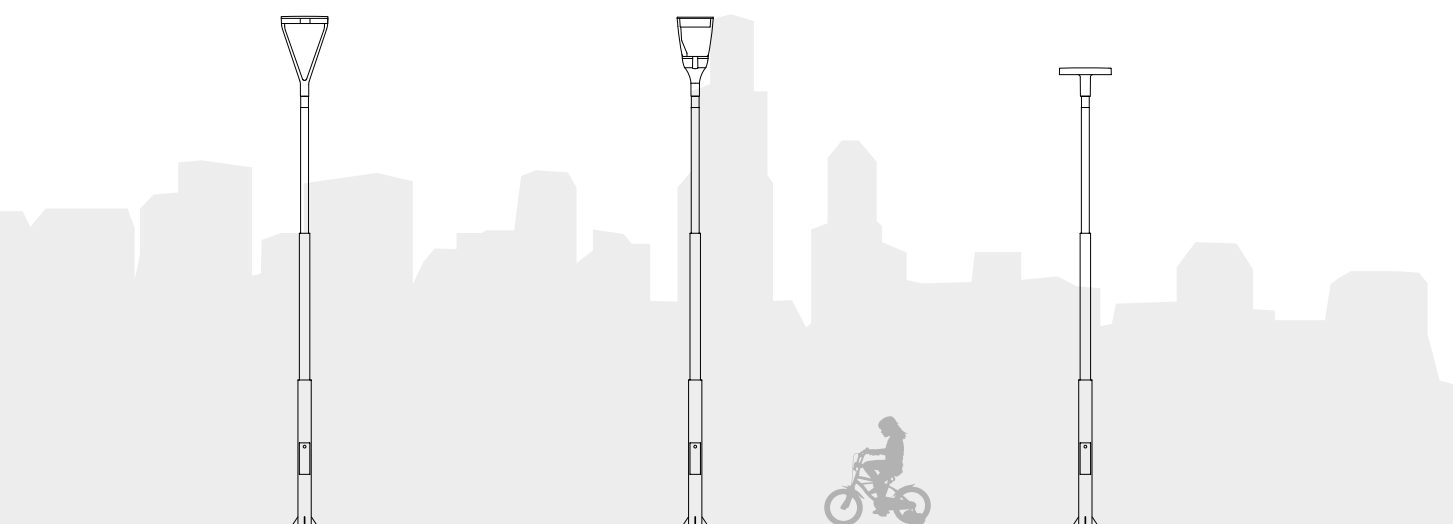


SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafrost Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively

BABEL WITH
MERAK SYFBABEL WITH
HYDRA

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



CL14

Simon CL14 decorative pole, up to 4 m high, with cylindrical base, cylindrical shaft with two or three sections, and post-top luminaire fastening.



Simon **CL14** decorative pole, up to 4 m high, with cylindrical base, cylindrical shaft with one or two sections, and post-top luminaire fastening.
 Flat flange plate with reinforcing ring, base and shaft, with two or three sections, made of S235JR-quality sheet carbon steel. Trim manufactured in die-cast aluminium.
 Flush trapdoor with interior reinforcement.
 Post-top luminaire fastening through Ø60 mm x 100 mm cylindrical coupling, Ø60 mm shaft or 3/4 "G screw.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Hot dip galvanised finish and painted in Simon GYDECO, BKCLAS, BKTECH or BK9005 colour. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.
 Pole with CE-certified constancy of performance.
 Recommended luminaires: ALTAIR IYF, MERAK SYF, HYDRA, SKAT, BERLIN, PRAGA M PRO, PRAGA M BASIC and PRAGA S FC6.

FASTENING SYSTEMS

Luminaire fastening	Post-top through Ø60 mm x 100 mm cylindrical coupling, Ø60 mm shaft or 3/4 "G screw in vertical position.
Notes	Anchoring bolts and template provided Luminaires not included

PHYSICAL FEATURES AND MATERIALS

IP	IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	Cylindrical with two or three sections
Base	Cylindrical
Trapdoor	Flush with interior reinforcement
Construction	Models with two or three cylindrical sections
Shaft	Carbon steel sheet, S235JR quality
Trim	Die-cast aluminium
Base	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring.

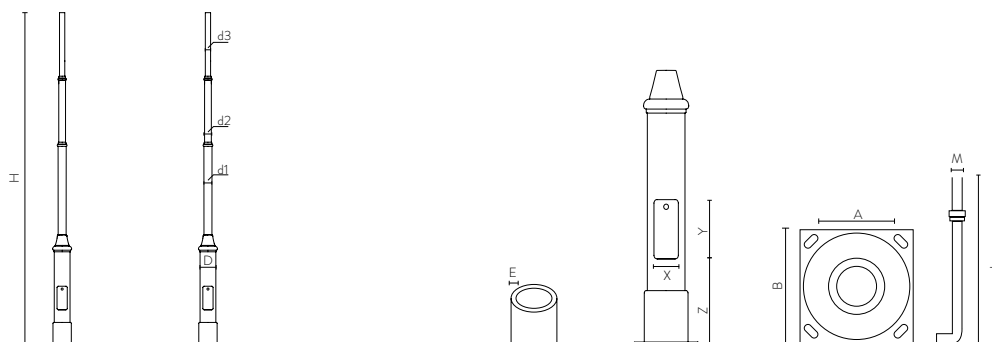
FINISHES

Shaft	Galvanised and painted in GYDECO, BKCLAS, BKTECH or BK9005 colour (Standard Paint)
Base	Galvanised and painted in GYDECO, BKCLAS, BKTECH or BK9005 colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

REGULATIONS AND CERTIFICATES

Support according to: REGULATION EN 40-5

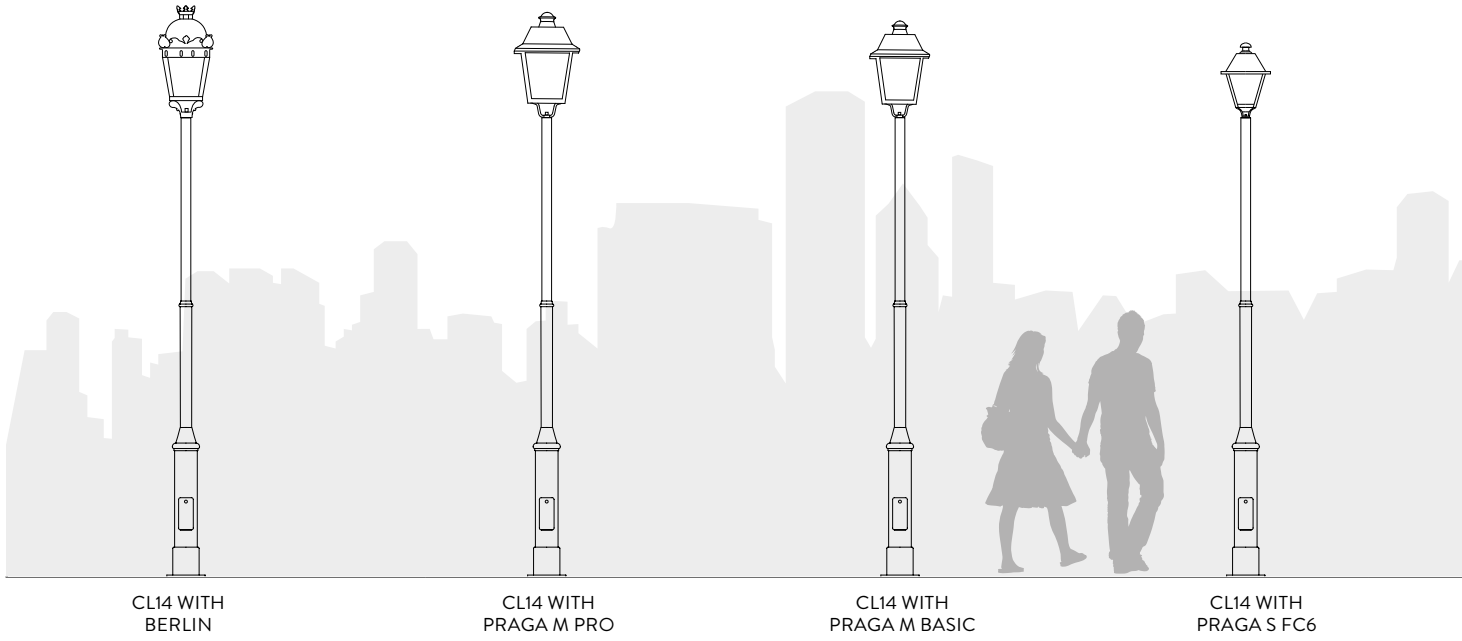
TECHNICAL INFORMATION* (Units in mm)



Model	Height	Base				Luminaire fastening	Thickness	Door			Flange plate		Bolts	Finish	Code
		Ø D	Ø d1	Ø d2	Ø d3			E	X	Y	Z	A			
Shaft with 2 sections	3,000	178	90	76	-	Ø60 coupling	3	115	250	350	215	300	M18x500	BK9005	N-469300
	3,500	178	90	76	-	Ø60 coupling	3	115	250	350	215	300	M18x500	BK9005	N-469350
	4,000	178	90	76	-	Ø60 coupling	3	115	250	350	215	300	M18x500	BK9005	N-469400
Shaft with 3 sections	3,500	178	90	76	60	Ø60	3	115	250	350	215	300	M18x500	BK9005	N-479350
	4,000	178	90	76	60	Ø60	3	115	250	350	215	300	M18x500	BK9005	N-479400

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






CL14 WITH BERLIN

CL14 WITH PRAGA M PRO

CL14 WITH PRAGA M BASIC

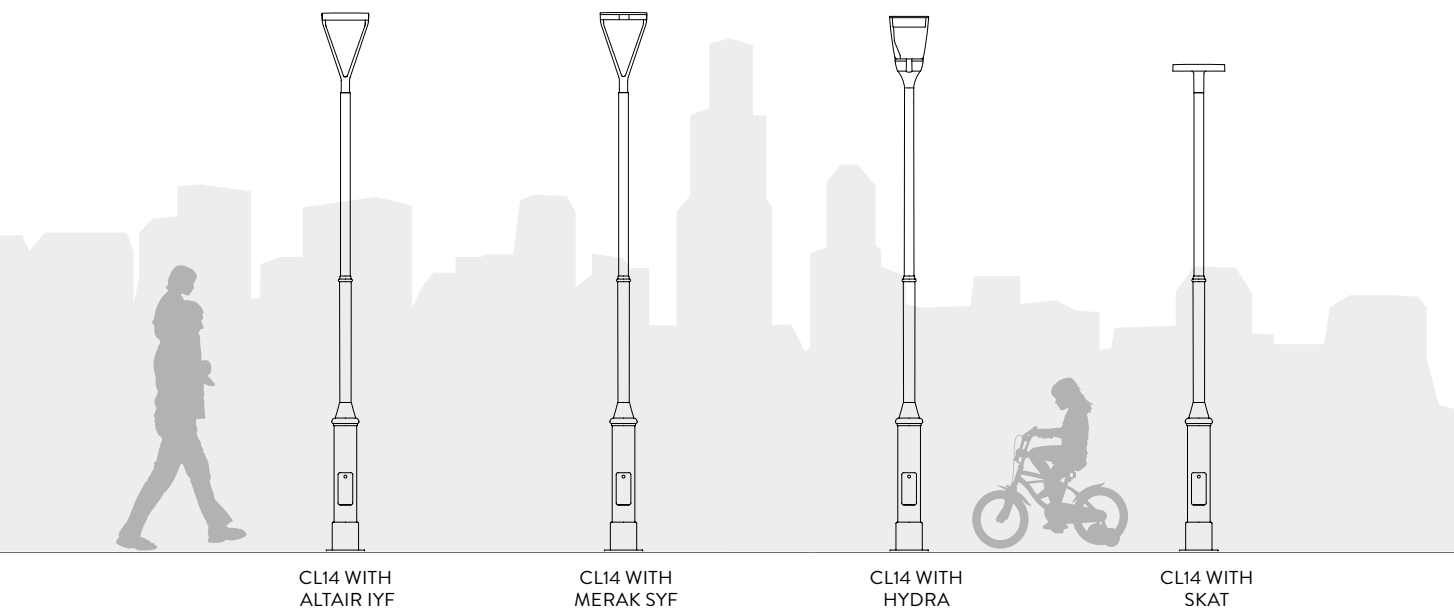
CL14 WITH PRAGA S FC6

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafrost Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



CL12

Simon CL12 decorative pole, up to 3.5 m high, cylindrical base and shaft and post-top luminaire fastening.



Simon **CL12** decorative pole, up to 3.5 m high, cylindrical base and shaft and post-top luminaire fastening.
 Flat flange plate with reinforcing ring, base and shaft made of S235JR-quality sheet carbon steel. Trim manufactured in die-cast aluminium.
 Flush trapdoor with interior reinforcement.
 Post-top luminaire fastening through Ø60 mm x 100 mm cylindrical coupling or 3/4 "G screw.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Hot dip galvanised finish and painted in Simon GYDECO, BKCLAS, BKTECH or BK9005 colour. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.
 Pole with CE-certified constancy of performance.
 Recommended luminaires: ALTAIR IYF, MERAK SYF, HYDRA, SKAT, BERLIN, PRAGA M PRO, PRAGA M BASIC and PRAGA S FC6.

FASTENING SYSTEMS

Luminaire fastening	Post top through Ø60 mm x 100 mm cylindrical coupling or 3/4 "G screw in vertical position.
Notes	Anchoring bolts and template provided Luminaires not included

PHYSICAL FEATURES AND MATERIALS

IP	IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	Cylindrical
Base	Cylindrical
Trapdoor	Flush with interior reinforcement
Construction	Two cylindrical sections in different diameters
Shaft	Carbon steel sheet, S235JR quality
Trim	Die-cast aluminium
Base	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring.
Trim	Gravity die-cast aluminium

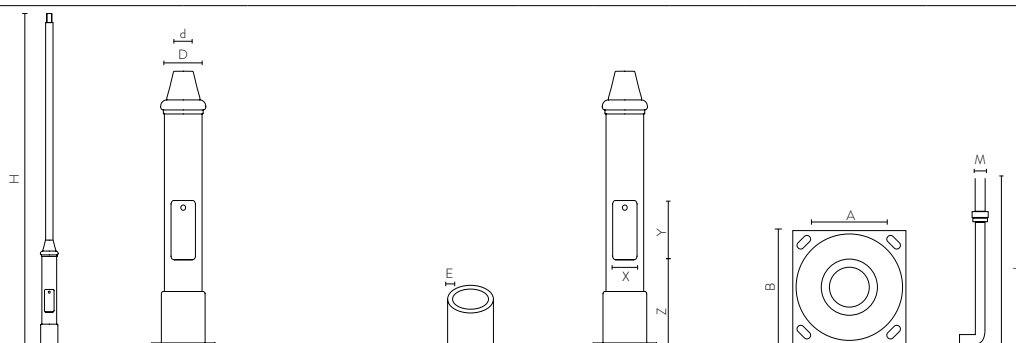
FINISHES

Arm	Galvanised and painted in GYDECO, BKCLAS, BKTECH or BK9005 colour (Standard Paint)
Shaft	Galvanised and painted in GYDECO, BKCLAS, BKTECH or BK9005 colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

REGULATIONS AND CERTIFICATES

Support according to: REGULATION EN 40-5

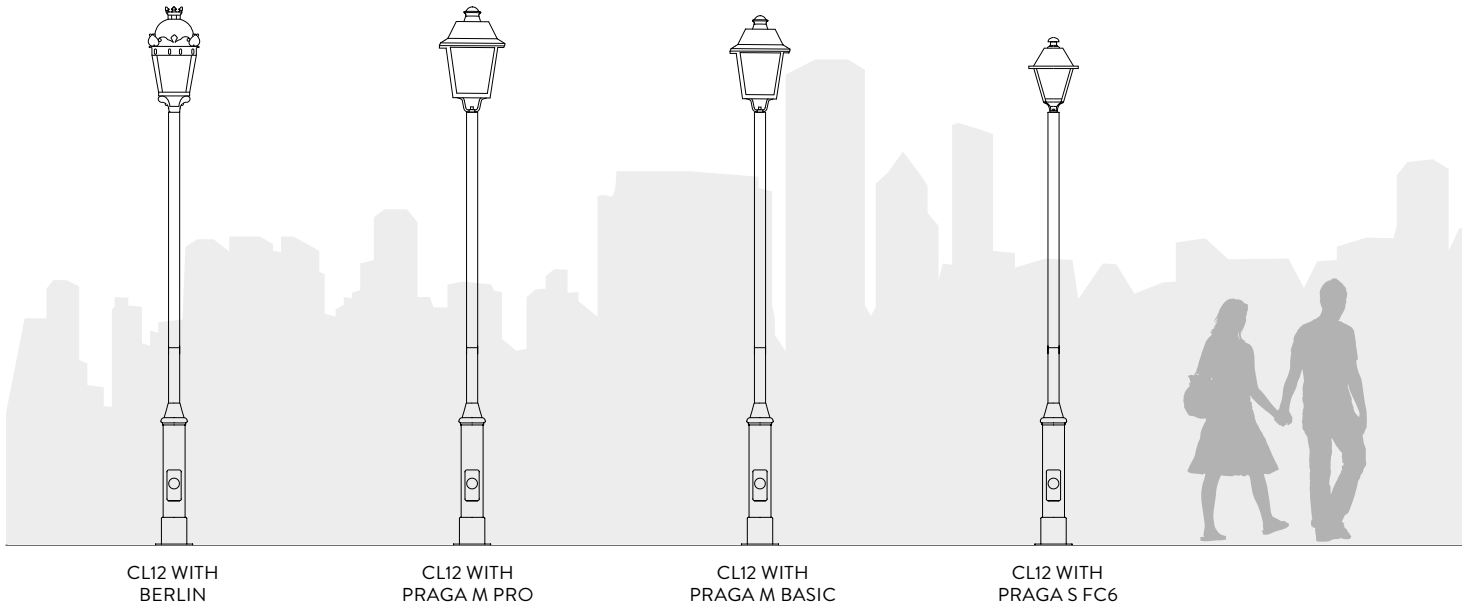
TECHNICAL INFORMATION* (Units in mm)



Height	Base		Luminaire fastening	Thickness	Door			Flange plate		Bolts	Finish	Code
H	∅ D	∅ d		E	X	Y	Z	A	B	M x L		
3,000	178	90	Ø60 coupling	3	115	250	350	215	300	M18x500	BK9005	N-486300
3,500	178	90	Ø60 coupling	3	115	250	350	215	300	M18x500	BK9005	N-486350

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






CL12 WITH BERLIN

CL12 WITH PRAGA M PRO

CL12 WITH PRAGA M BASIC

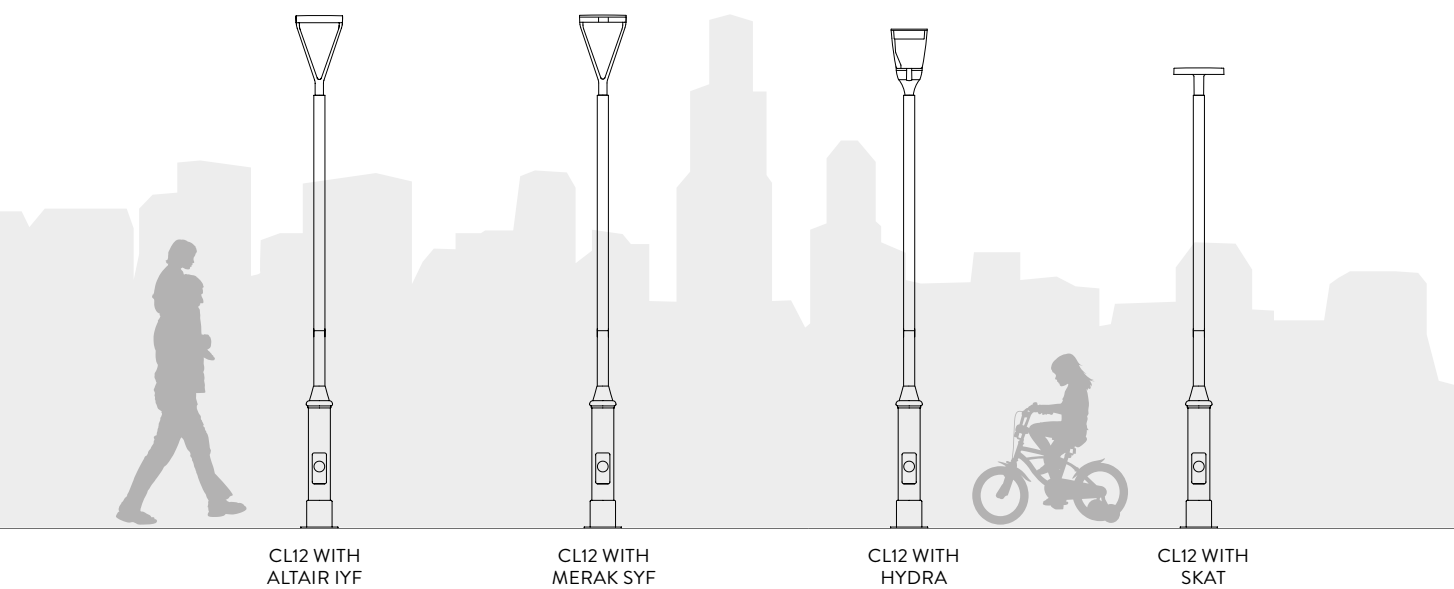
CL12 WITH PRAGA S FC6

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard Paint Finish: hot dip galvanised** and painted Average durability in corrosive environment C4.	✓	✓	✓
Seafrost Paint Finish: hot dip galvanised** and painted High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



CLA16

Simon CLA16 decorative pole, up to 3.9 m high, cylindrical base and cylindrical shaft, and post-top luminaire fastening.



Simon **CLA16** decorative pole, up to 3.9 m high, cylindrical base and cylindrical shaft, and post-top luminaire fastening.
 Flat flange plate with gussets, base, trim and shaft made of S235JR-quality carbon steel sheet.
 Flush trapdoor with interior reinforcement.
 Post-top luminaire fastening through Ø60 mm x 100 mm cylindrical coupling or 3/4 "G screw.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.
 Pole with CE-certified constancy of performance.
 Recommended luminaires: ALTAIR IXF, ALTAIR IYF, MERAK SXF, MERAK SYF, HYDRA and SKAT.

FASTENING SYSTEMS

Luminaire fastening	Post-top through Ø60 mm x 100 mm cylindrical coupling or 3/4 "G screw in vertical position.
Notes	Anchoring bolts and template provided Luminaires not included

FINISHES

Arm	Galvanised
Shaft	Galvanised Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

PHYSICAL FEATURES AND MATERIALS

IP	IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	Cylindrical
Base	Cylindrical
Trapdoor	Flush with interior reinforcement
Construction	Two cylindrical sections in different diameters
Shaft	Carbon steel sheet, S235JR quality
Base	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality with gussets

REGULATIONS AND CERTIFICATES

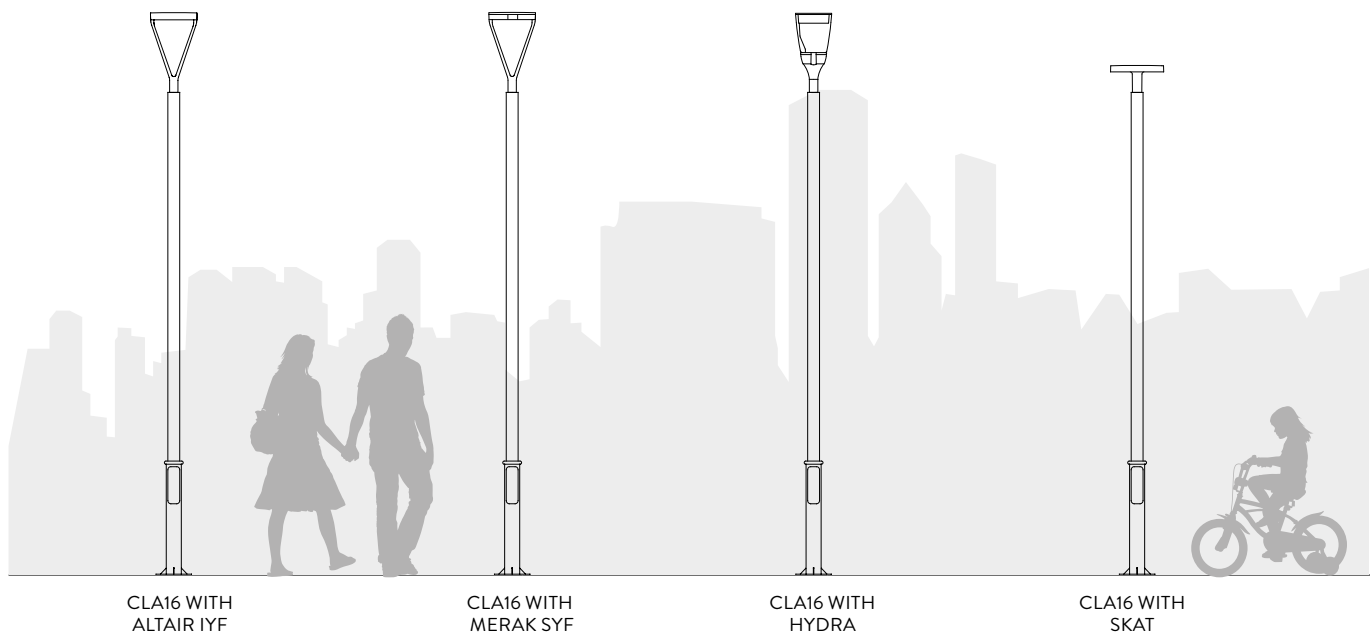
Support according to: REGULATION EN 40-5

TECHNICAL INFORMATION* (Units in mm)

Height	Base		Luminaire fastening	Thickness		Door		Flange plate		Bolts	Code
H	Ø D	Ø d		E	X	Y	Z	A	B	M x L	
3,600	127	100	Ø60 coupling	3	100	300	650	215	300	M18x500	D-480036
3,600	127	100	3/4 "G	3	100	300	650	215	300	M18x500	5-512752
3,900	127	100	Ø60 coupling	3	100	300	650	215	300	M18x500	D-480039
3,900	127	100	3/4 "G	3	100	300	650	215	300	M18x500	5-512753

* Check other measurements or configurations




RECOMMENDED LUMINAIRES (NOT INCLUDED)



ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265
Flush door replacement, up to 4 m pole height, galvanised finish.	5-531790

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



CLB16

Simon CLB16 decorative pole, up to 3.9 m high, cylindrical base and cylindrical shaft, and post-top luminaire fastening.



Simon **CLB16** decorative pole, up to 3.9 m high, cylindrical base and cylindrical shaft, and post-top luminaire fastening. Flat flange plate with reinforcement and gussets, base, trim and shaft made of S235JR-quality carbon steel sheet. Flush trapdoor with interior reinforcement. Post-top luminaire fastening through Ø60 mm x 80 mm cylindrical coupling. IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied. Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes. Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included. Pole with CE-certified constancy of performance. Pole meets City of Barcelona product specifications. Recommended luminaires: ALTAIR IXF, ALTAIR IYF, MERAK SXF, MERAK SYF, HYDRA and SKAT.

FASTENING SYSTEMS

Luminaire fastening Post top through Ø60 mm x 80 mm cylindrical coupling

Notes Anchoring bolts and template provided
Luminaires not included

PHYSICAL FEATURES AND MATERIALS

IP IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)

Shaft Cylindrical

Base Cylindrical

Trapdoor Flush with interior reinforcement

Construction Two cylindrical sections in different diameters

Shaft Carbon steel sheet, S235JR quality

Base Carbon steel sheet, S235JR quality

Flange plate Flat steel sheet, S235JR quality, with reinforcing ring and gussets

FINISHES

Arm Galvanised

Shaft Galvanised

Simon Colours (Standard Paint / Seafront Paint)

RAL chart colours (Standard Paint / Seafront Paint)

REGULATIONS AND CERTIFICATES

Support according to: REGULATION EN 40-5

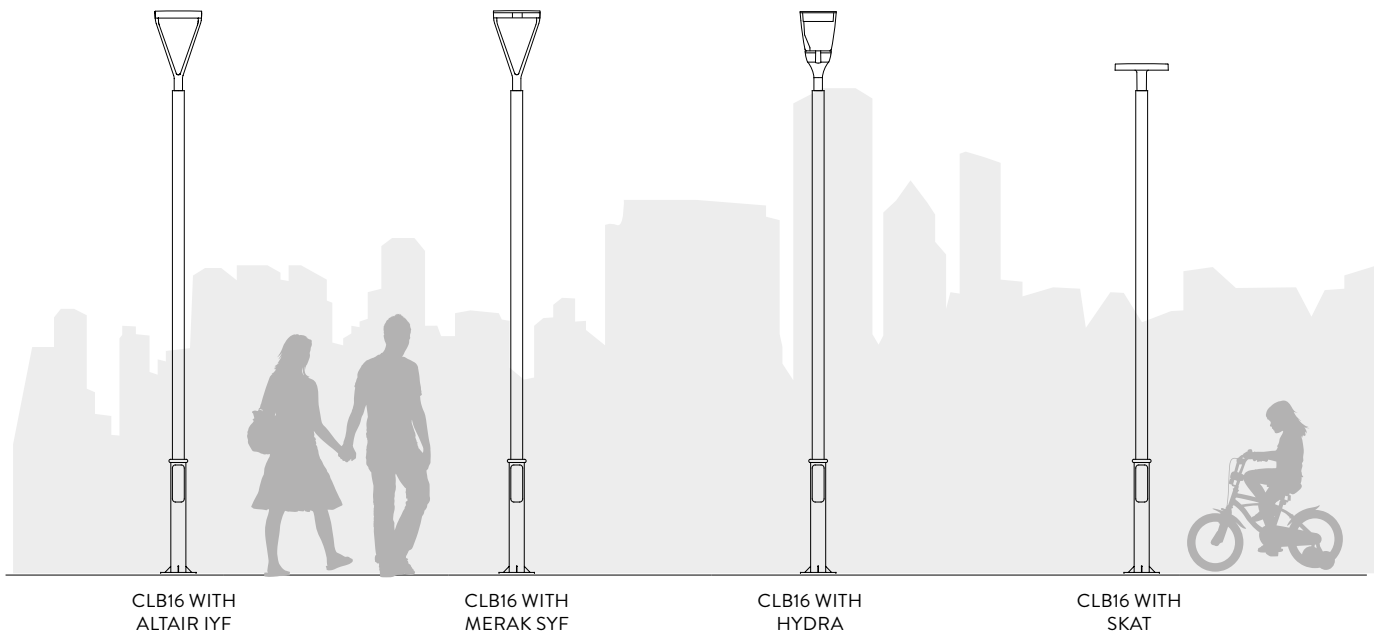
Barcelona City Hall Conditions

TECHNICAL INFORMATION* (Units in mm)

Height	Base		Luminaire fastening	Thickness	Door			Flange plate		Bolts	Code
H	∅ D	∅ d		E	X	Y	Z	A	B	M x L	
3,600	127	100	Ø60 coupling	3	100	300	550	210	300	M20x500	S-480936
3,900	127	100	Ø60 coupling	3	100	300	550	210	300	M20x500	S-480939

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)



ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265
Flush door replacement, up to 4 m pole height, galvanised finish.	5-531790

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*	Acid-less protection	Stick-less protection	Draw-less protection
Standard finish: hot dip galvanised**	✓		
Standard Paint Finish: hot dip galvanised** and painted Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



CL21

Simon CL21 decorative pole, up to 12 m high, with cylindrical base, telescopic cylindrical shaft with 1 or 2 sections, and post-top luminaire fastening.



Simon **CL21** decorative pole, up to 12 m high, with cylindrical base, telescopic cylindrical shaft with 1 or 2 sections, and post-top luminaire fastening.
 Flat flange plate with reinforcing ring and gussets, base and shaft made of S235JR - quality sheet carbon steel. Decorative rings manufactured in gravity die-cast aluminium.
 Flush trapdoor with interior reinforcement.
 Post-top luminaire fastening through Ø60 mm x 100 mm cylindrical coupling.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.
 Pole with CE-certified constancy of performance.
 Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF and MERAK SXF.

FASTENING SYSTEMS

Luminaire fastening	Post-top fastening through Ø60 mm x 100 mm coupling
Notes	Anchoring bolts and template provided Luminaires not included

PHYSICAL FEATURES AND MATERIALS

IP	IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	Telescopic cylindrical in one or two sections
Base	Cylindrical
Trapdoor	Flush with interior reinforcement
Construction	Models with two or three cylindrical sections
Shaft	Carbon steel sheet, S235JR quality
Rings	Die-cast aluminium
Base	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

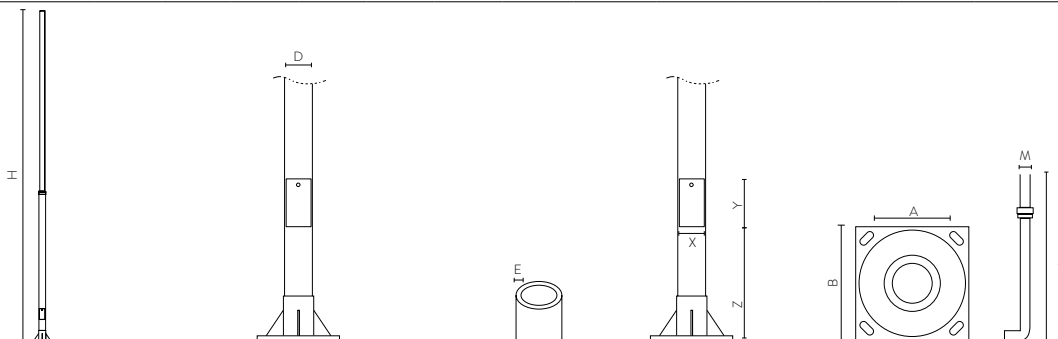
FINISHES

Shaft	Galvanised
Base	Galvanised Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

REGULATIONS AND CERTIFICATES

Support according to: REGULATION EN 40-5

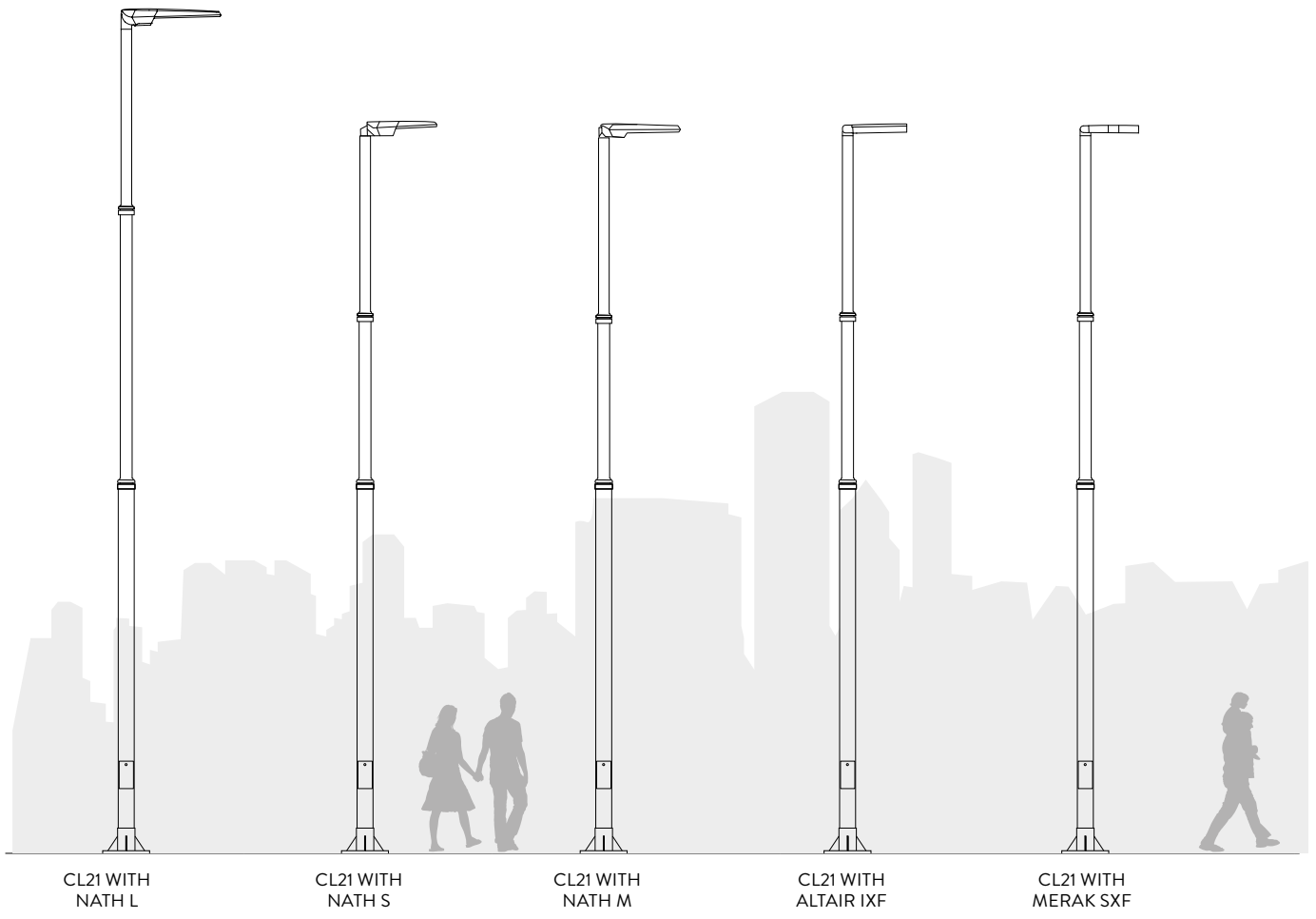
TECHNICAL INFORMATION* (Units in mm)



Model	Height H	Base						Thickness E	Door			Flange plate		Bolts M x L	Code
		Ø D1	H1	Ø D2	H2	Ø D3	H3		X	Y	Z	A	B		
2 Sections	7,000	168	3,000	115	4,000	-	-	3	125	300	550	285	400	M22x600	S-582207
	8,000	168	4,000	115	4,000	-	-	3	125	300	550	285	400	M22x600	S-582208
3 Sections	9,000	168	4,000	127	3,000	100	2,000	3	125	300	550	285	400	M22x600	S-582309
	10,000	219	4,500	168	3,500	115	2,000	4	134	300	550	285	400	M22x600	S-582310
	12,000	219	5,000	168	4,000	115	3,000	4	134	300	550	285	400	M22x600	S-582312

* Check other measurements or configurations




RECOMMENDED LUMINAIRES (NOT INCLUDED)



ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



TIL

Simon TIL decorative pole, up to 9 m high, cylindrical, and suspended fastening for spotlights with arms.



Simon **TIL** decorative pole, up to 9 m high, cylindrical, and suspended fastening for spotlights with arms.
 Flat flange plate with reinforcing ring and gussets, shaft and arm(s) made of S235JR - quality carbon steel sheet.
 Flush trapdoor with interior reinforcement.
 Suspended fastening for spotlight through three holes of Ø11 mm, Ø18 mm y Ø11 mm in the arm.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.
 Pole with CE-certified constancy of performance. Pole meets City of Barcelona product specifications.
 Recommended luminaires: DEMON, MILOS MXF, MILOS SXF, FOGO, LORE and KOS.

FASTENING SYSTEMS

Luminaire fastening	Suspended fastening through three holes of Ø11 mm, Ø18 mm y Ø11 mm in the arm
Notes	Anchoring bolts and template provided Luminaires not included

PHYSICAL FEATURES AND MATERIALS

IP	IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	Cylindrical
Trapdoor	Flush with interior reinforcement
Construction	Made up of shaft and arm(s)
Arm	Carbon steel sheet, S235JR quality
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

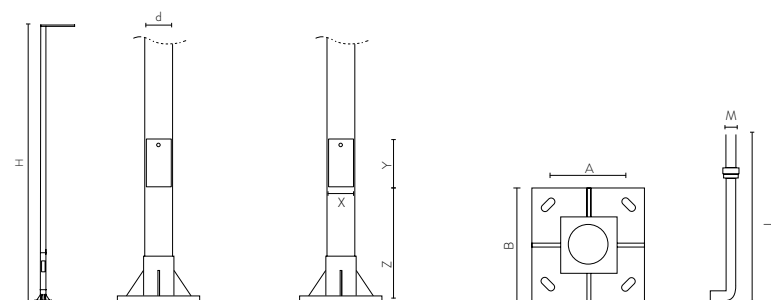
FINISHES

Arm	Galvanised
Shaft	Galvanised Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

REGULATIONS AND CERTIFICATES

Support according to:	REGULATION EN 40-5 Barcelona City Hall Conditions
------------------------------	--

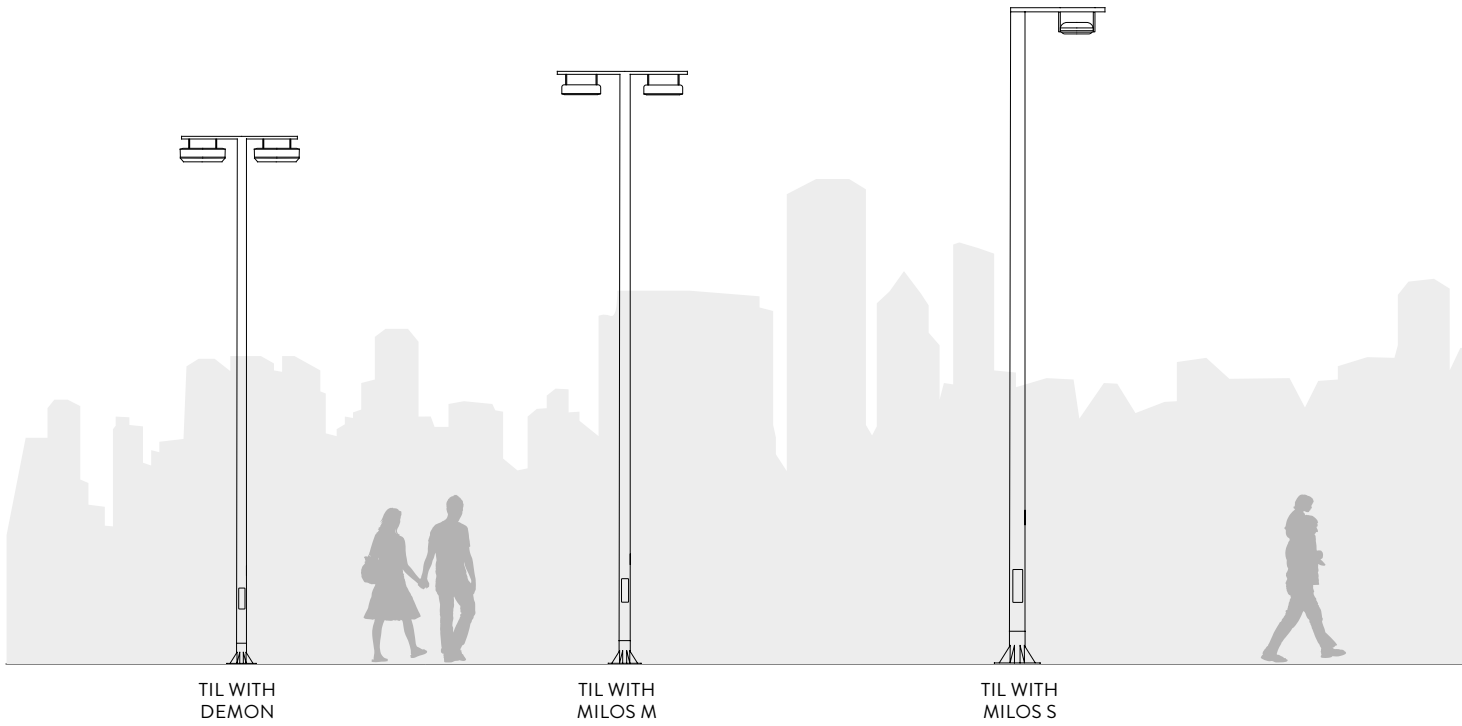
TECHNICAL INFORMATION* (Units in mm)






Height	Base	Door			Flange plate		Bolts	1 st Arm		2 nd Arm		Code
		X	Y	Z	A	B		H1	L1	H2	L2	
4,000	127	100	300	700	210	300	M20 x 500	4,000	770	-	-	S-592140
4,000	127	100	300	700	210	300	M20 x 500	4,000	770	4,000	770	S-592240
4,500	127	100	300	700	210	300	M20 x 500	4,500	770	-	-	S-592145
4,500	127	100	300	700	210	300	M20 x 500	4,500	770	4,500	770	S-592245
5,000	127	100	300	700	210	300	M20 x 500	5,000	770	-	-	S-592150
5,000	127	100	300	700	210	300	M20 x 500	5,000	770	5,000	770	S-592250
5,500	127	100	300	700	210	300	M20 x 500	5,500	770	-	-	S-592155
5,500	127	100	300	700	210	300	M20 x 500	5,500	770	5,500	770	S-592255
6,000	127	100	300	700	300	400	M22 x 600	6,000	770	-	-	S-592160
6,000	127	100	300	700	300	400	M22 x 600	6,000	770	6,000	770	S-592260
6,500	127	100	300	700	300	400	M22 x 600	6,500	770	-	-	S-592165
6,500	127	100	300	700	300	400	M22 x 600	6,500	770	6,500	770	S-592265
7,000	127	100	300	700	300	400	M22 x 600	7,000	770	-	-	S-592171
7,000	127	100	300	700	300	400	M22 x 600	7,000	770	7,000	770	S-592271
7,500	127	100	300	700	300	400	M22 x 600	7,500	770	-	-	S-592176
7,500	127	100	300	700	300	400	M22 x 600	7,500	770	7,500	770	S-592276
8,000	152	100	300	700	300	400	M22 x 600	8,000	770	-	-	S-592180
8,000	152	100	300	700	300	400	M22 x 600	8,000	770	8,000	770	S-592280
8,500	152	100	300	700	300	400	M22 x 600	8,500	770	-	-	S-592185
8,500	152	100	300	700	300	400	M22 x 600	8,500	770	8,500	770	S-592285
9,000	152	100	300	700	300	400	M22 x 600	9,000	770	-	-	S-592190
9,000	152	100	300	700	300	400	M22 x 600	9,000	770	9,000	770	S-592290

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)



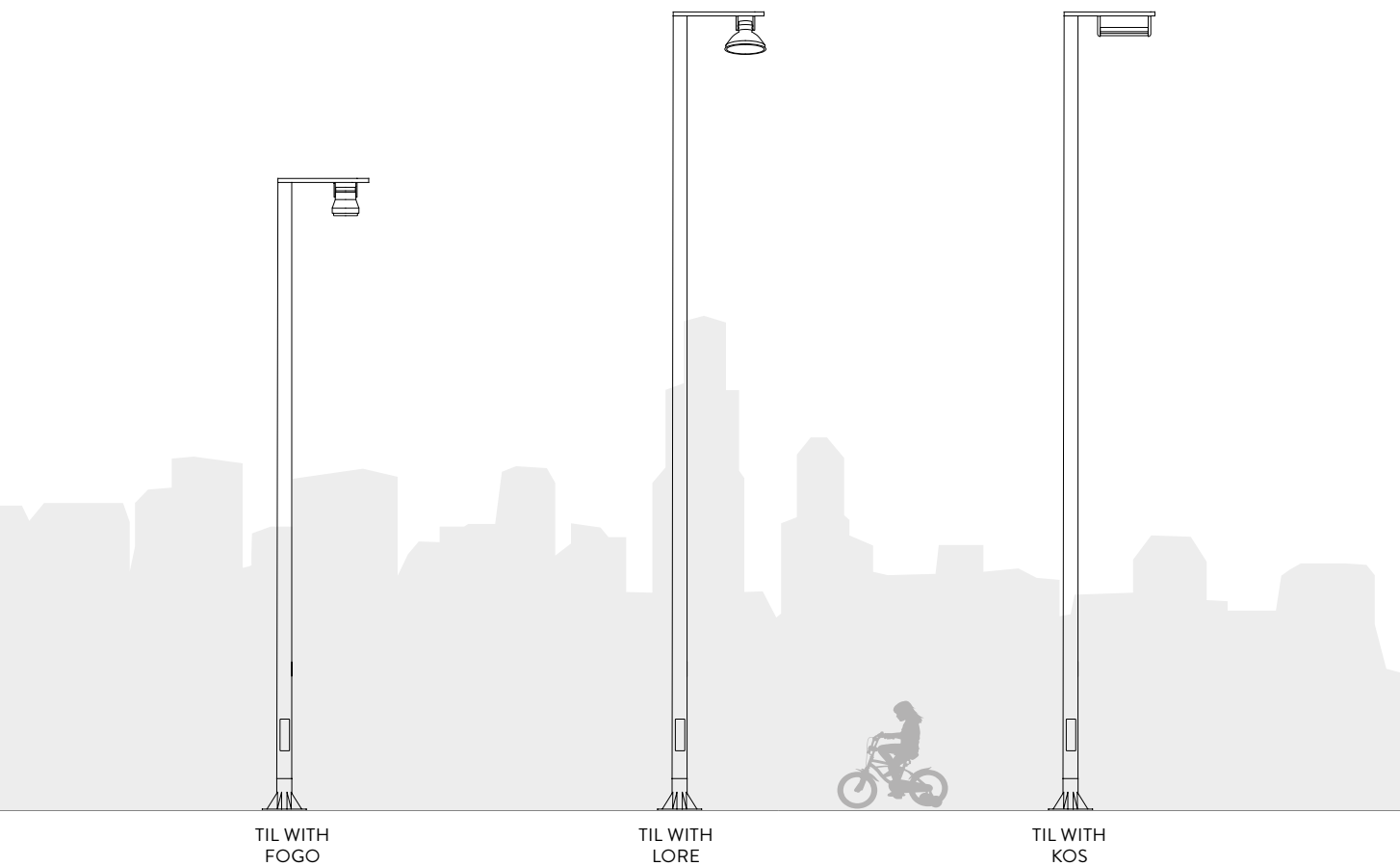
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



TIL WITH FOGO

TIL WITH LORE

TIL WITH KOS

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



ARCDECO

Simon ArcDeco decorative curved pole, up to 11 m high, conical tapering, large bending radius, lateral luminaire fastening through coupling, and bevelled post-top finish.



Simon **ArcDeco** decorative curved pole, up to 11 m high, conical tapering, large bending radius, lateral luminaire fastening through coupling, and bevelled post-top finish.

Flat flange plate with reinforcing ring and gussets, shaft and coupling made of S235JR- quality carbon steel sheet.

Flush trapdoor with interior reinforcement.

Lateral luminaire fastening through Ø60 mm x 250 mm coupling, and 3° angle, placed on the inside of the curve 500 mm under the top.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE- certified constancy of performance.

Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF and ALYA.

FASTENING SYSTEMS

Luminaire fastening	Lateral fastening through Ø60 mm x 110 mm coupling at 3° angle
Notes	Anchoring bolts and template provided Luminaires not included

PHYSICAL FEATURES AND MATERIALS

IP	IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	Conical tapering
Trapdoor	Flush with interior reinforcement
Construction	Support manufactured in a single section
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

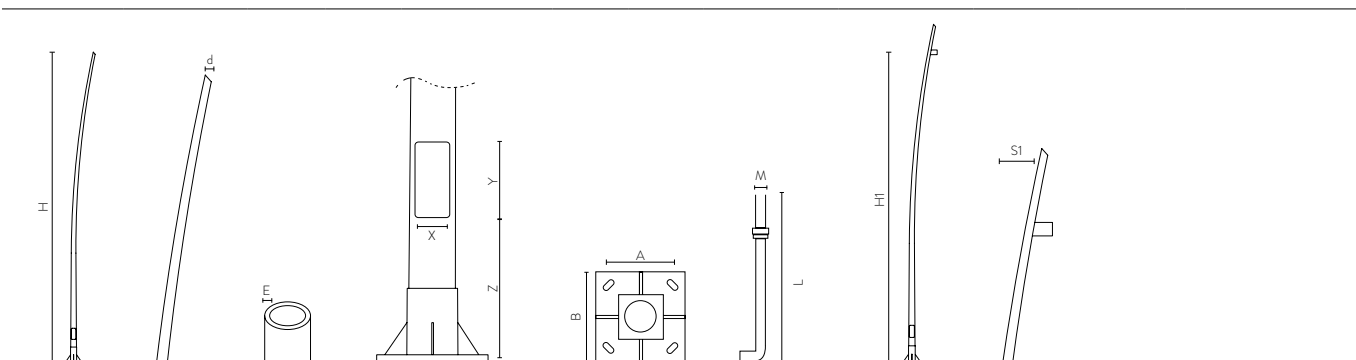
FINISHES

Shaft	Galvanised and painted in GY9007 or GYDECO colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)
--------------	--

REGULATIONS AND CERTIFICATES

Support according to: REGULATION EN 40-5

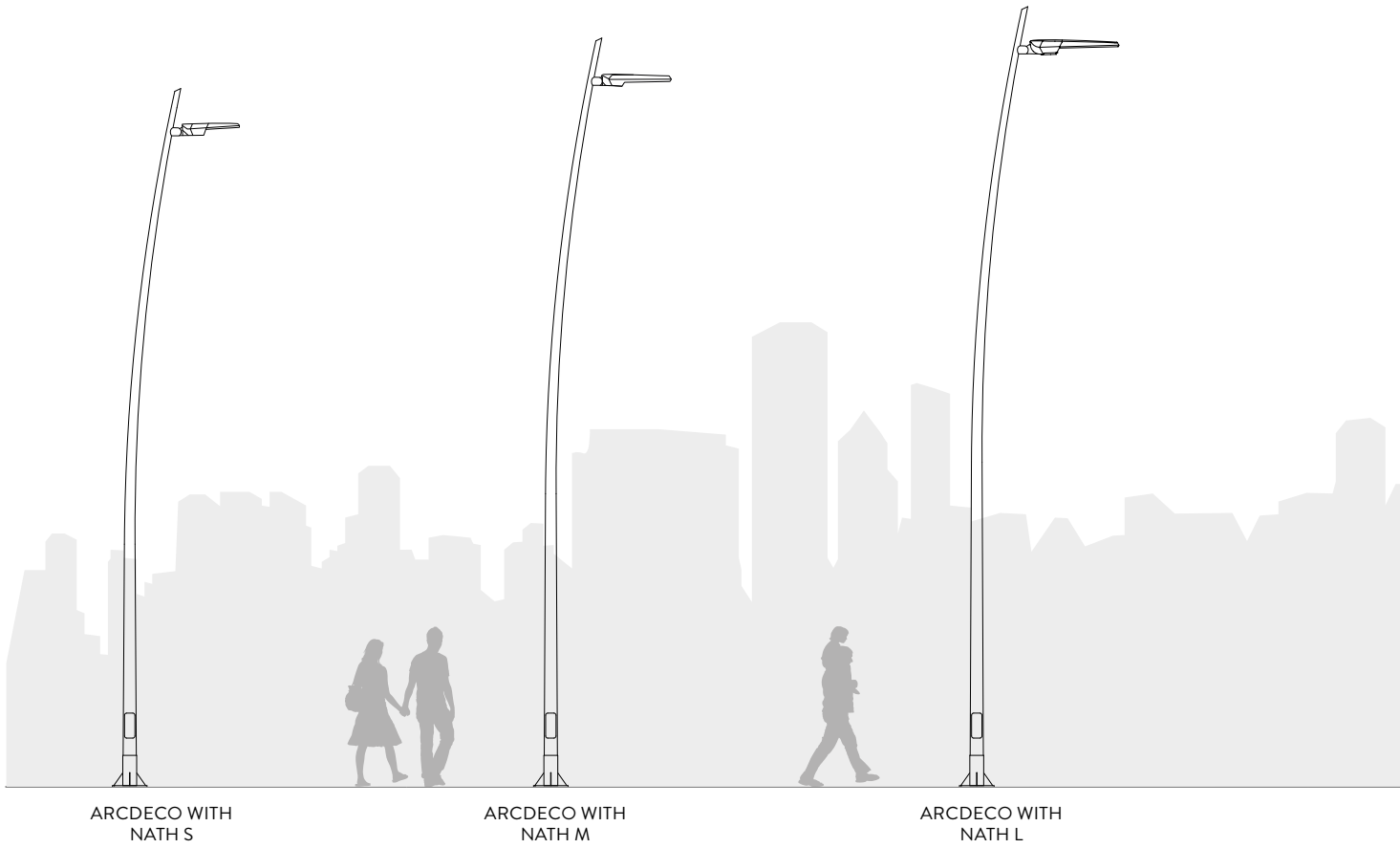
TECHNICAL INFORMATION* (Units in mm)



Height	Diameter	Thickness	Door			Flange plate		Bolts	H1	S1	Finish	Code
H	Ø d	E	X	Y	Z	A	B	M x L				
6,000	60	3	115	300	550	285	400	M22X600	5,500	300	GYDECO	S-587106-013
7,000	60	3	120	300	550	285	400	M22X600	6,500	400	GYDECO	S-587107-013
8,000	60	3	120	300	550	285	400	M22X600	7,500	550	GYDECO	S-587108-013
9,000	60	3	125	300	550	285	400	M22X600	8,500	850	GYDECO	S-587109-013
10,000	60	4	130	300	550	285	400	M22X600	9,500	1,000	GYDECO	S-587110-013
11,000	60	4	135	300	550	285	400	M22X600	10,500	1,050	GYDECO	S-587111-013

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






ARCDECO WITH NATH S

ARCDECO WITH NATH M

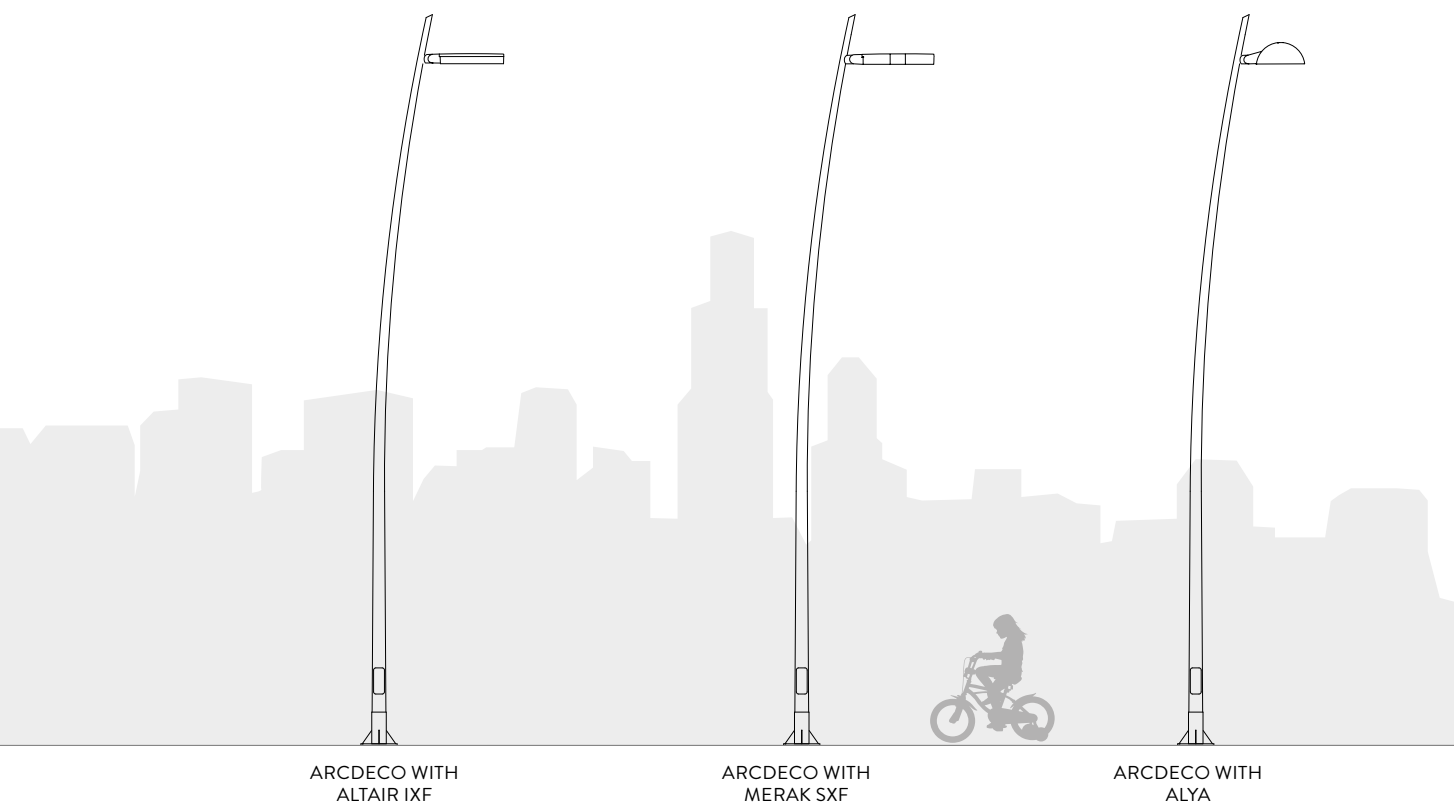
ARCDECO WITH NATH L

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



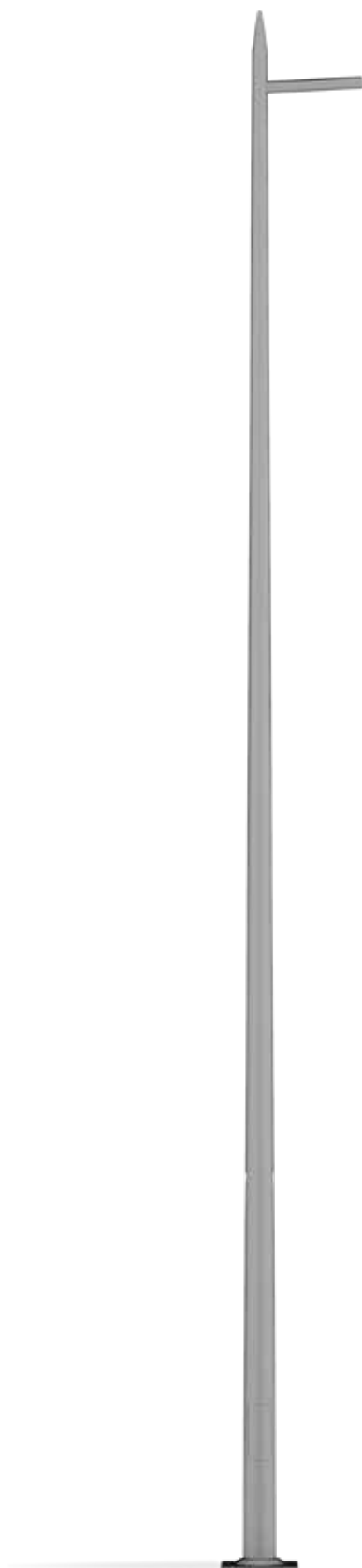
ARCDECO WITH
ALTAIR IXF

ARCDECO WITH
MERAK SXF

ARCDECO WITH
ALYA

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



ROCKET

Simon ROCKET decorative pole, up to 12 m high, conical tapering, lateral luminaire fastening through coupling, and tapered post-top finish.



Simon **ROCKET** decorative pole, up to 12 m high, conical tapering, lateral luminaire fastening through coupling, and tapered post-top finish.
 Recessed flange plate and shaft made of S235JR - quality sheet carbon steel.
 Flush trapdoor with interior reinforcement.
 Lateral luminaire fastening through Ø60 mm cylindrical coupling, 3° angle and different lengths.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Hot dip galvanised finish and painted in Simon GY9007 or GYDECO colour. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.
 Pole with CE-certified constancy of performance.
 Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF and MERAK SXF.

FASTENING SYSTEMS

Luminaire fastening	Lateral fastening through Ø60 mm coupling of different lengths, and 3° angle
Notes	Anchoring bolts and template provided. Luminaires not included

FINISHES

Shaft	Galvanised and painted in GY9007 or GYDECO colour (Standard Paint)
	Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)

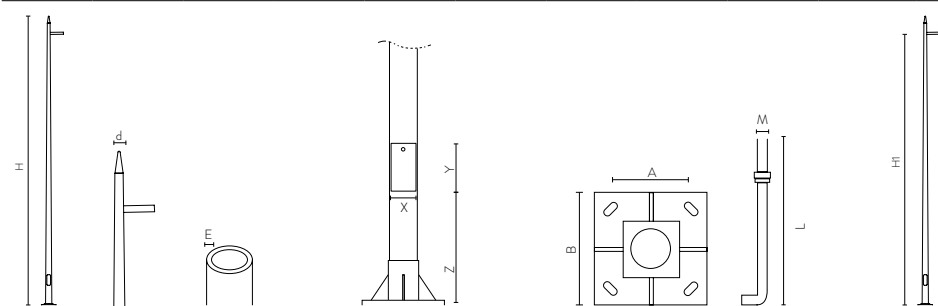
PHYSICAL FEATURES AND MATERIALS

IP	IP3x. To achieve IP44, it is necessary to use an internal junction box with IP44 (not supplied with the pole)
Shaft	Conical tapering
Trapdoor	Flush with interior reinforcement
Construction	Support manufactured in a single section
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, recessed

REGULATIONS AND CERTIFICATES

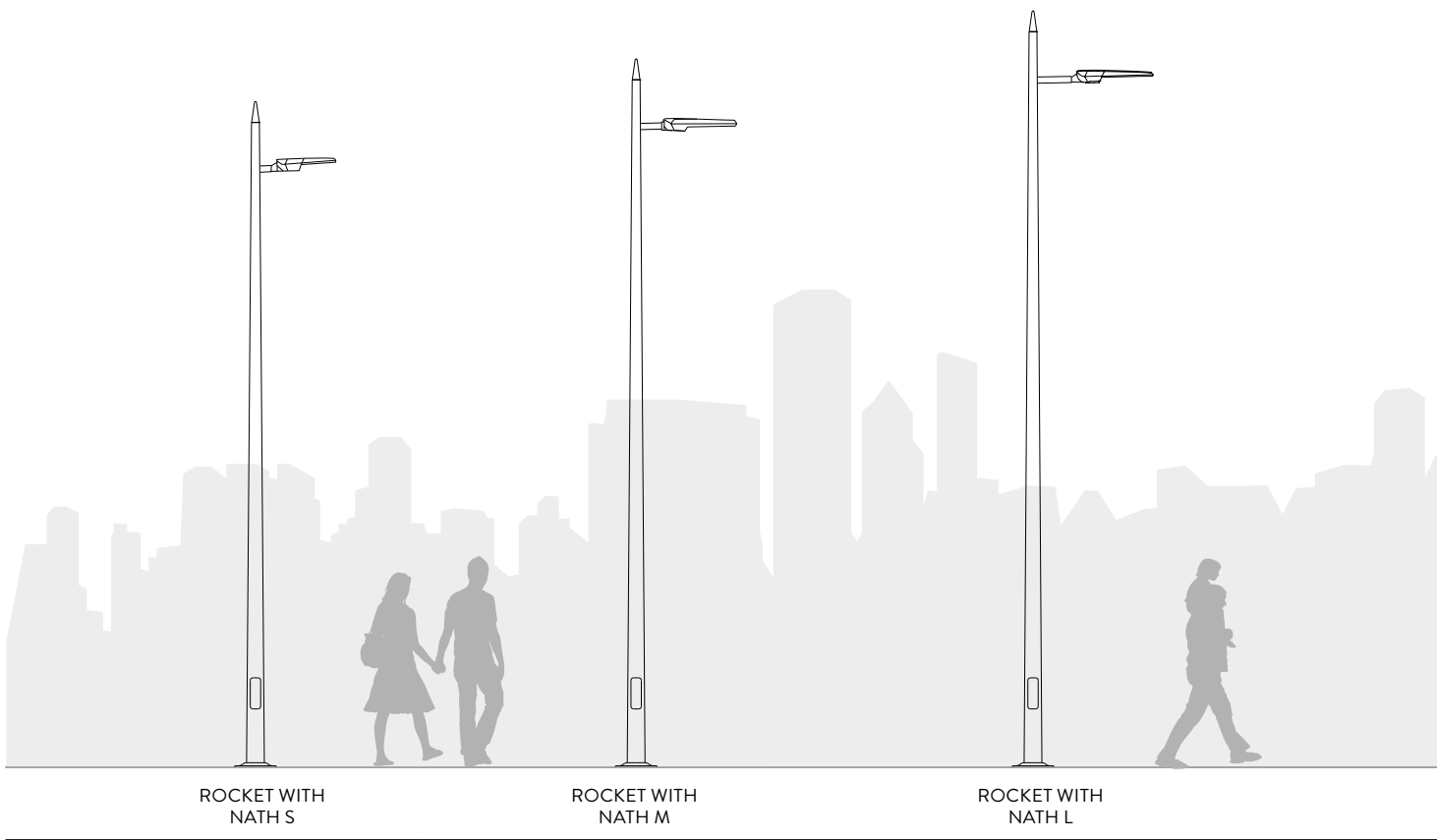
Support according to:	REGULATION EN 40-5
------------------------------	--------------------

TECHNICAL INFORMATION* (Units in mm)



Height	Base	Thickness	Door			Flange plate		Bolts	Luminaire fastening		End	Finish	Code
H	∅ d	E	X	Y	Z	A	B	M x L	H1	L1			
4,000	76	3	90	300	550	215	300	M16x500	3,800	200	Tapered	GY9007	S-481304-016
5,000	76	3	100	300	550	215	300	M16x500	4,800	300	Tapered	GY9007	S-481305-016
6,000	76	3	105	300	550	215	300	M18x500	5,800	400	Tapered	GY9007	S-481306-016
7,000	76	3	115	300	550	285	400	M20x500	6,800	500	Tapered	GY9007	S-481307-016
8,000	76	3	120	300	550	285	400	M20x500	7,800	500	Tapered	GY9007	S-481308-016
8,000	76	4	120	300	550	285	400	M20x500	7,800	500	Tapered	GY9007	S-481408-016
9,000	76	3	125	300	550	285	400	M20x500	8,800	500	Tapered	GY9007	S-481309-016
9,000	76	4	125	300	550	285	400	M20x500	8,800	500	Tapered	GY9007	S-481409-016
10,000	76	4	125	300	550	285	400	M22x600	9,800	750	Tapered	GY9007	S-481410-016
12,000	76	4	130	300	550	285	400	M22x600	11,800	750	Tapered	GY9007	S-481412-016

* Check other measurements or configurations

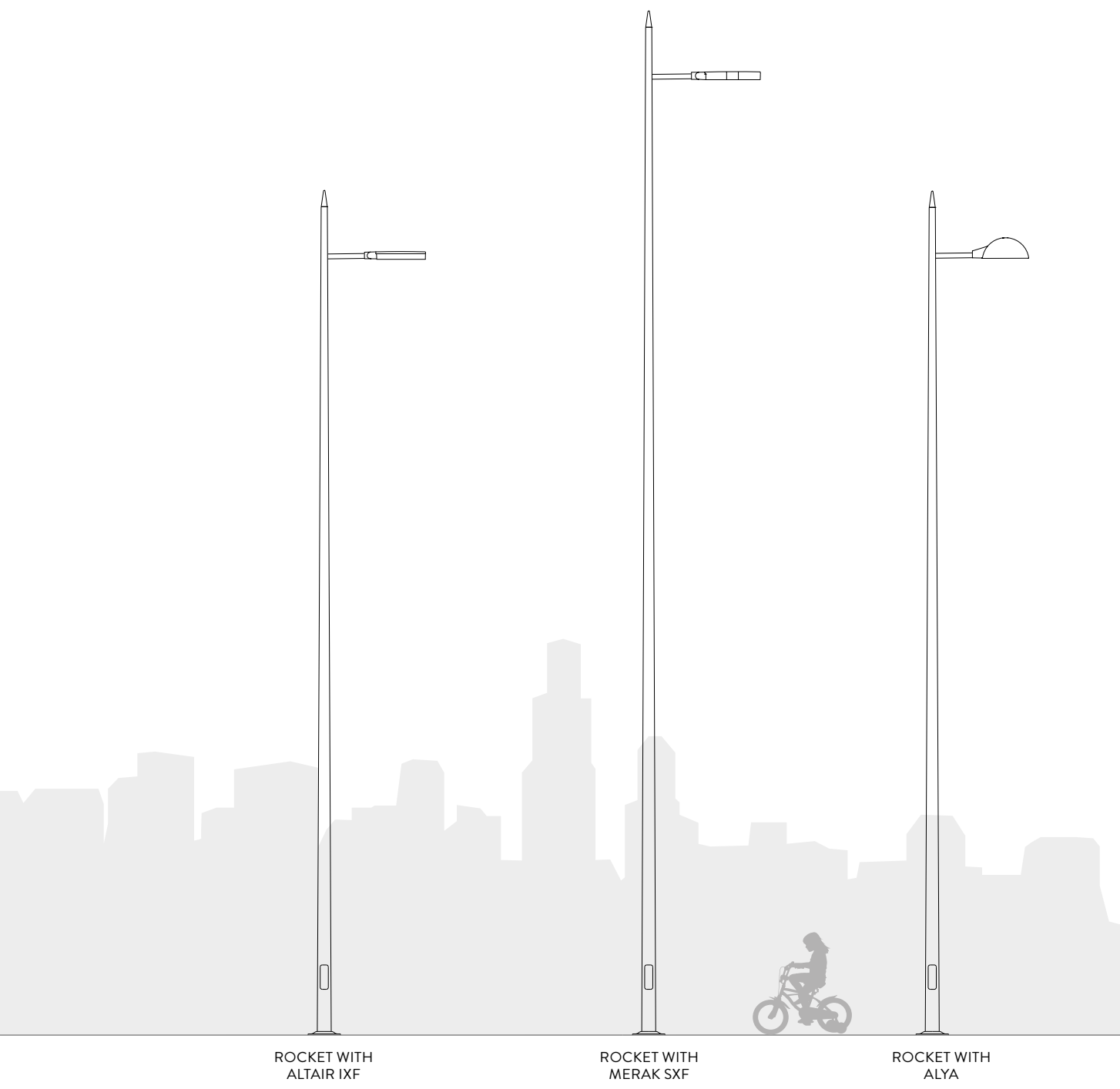


SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*	Acid-less protection	Stick-less protection	Draw-less protection
Standard Paint Finish: hot dip galvanised** and painted Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



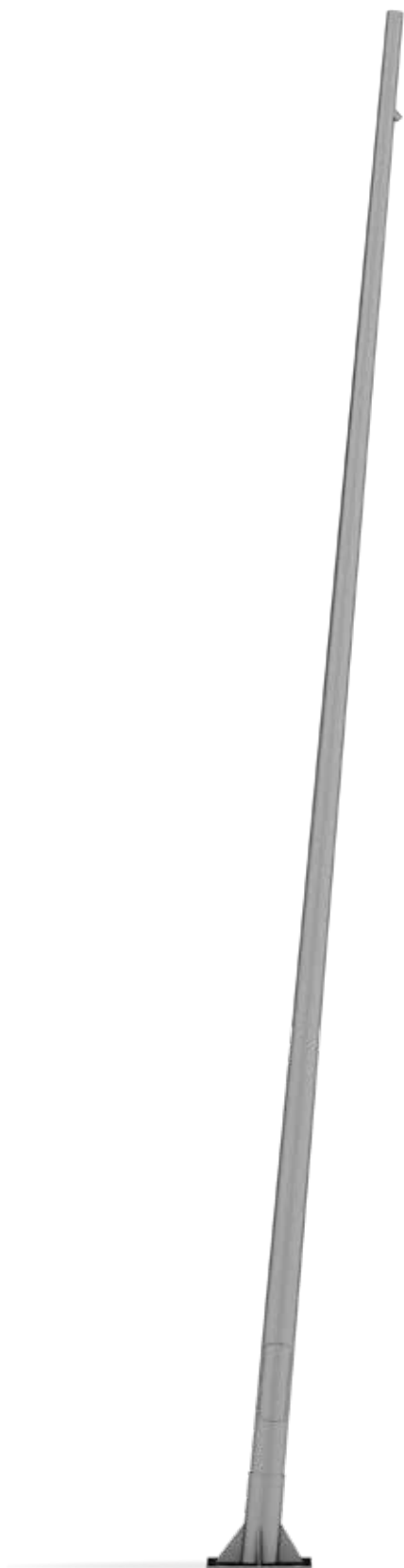
ROCKET WITH
ALTAIR IXF

ROCKET WITH
MERAK SXF

ROCKET WITH
ALYA

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265



TORT

Simon TORT decorative pole, up to 9 m high, conical tapering, 5° angle to vertical axis, and lateral fastening for spotlights.



Simon **TORT** decorative pole, up to 9 m high, conical tapering, 5° angle to vertical axis, and lateral fastening for spotlights.
 Flange plate with reinforcing ring and gussets, and shaft made of S235JR- quality carbon steel sheet.
 Flush trapdoor with interior reinforcement and interior sleeve.
 Lateral fastening for spotlights through M12 screw terminals on falling part of angle, 500 mm under the top.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Hot dip galvanised and painted finish. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base, as well as screws for spotlight fastening. Luminaires not included.
 Pole with CE-certified constancy of performance. Pole meets City of Barcelona product specifications.
 Recommended luminaires: DEMON, MILOS MXF, MILOS SXF, FOGO, LORE and KOS.

FASTENING SYSTEMS

Luminaire fastening	Lateral fastening through M12 screw terminal 500 mm under the top and wire outlet
Notes	Anchoring bolts and template provided Supplied with spotlight fastening screw and nut Luminaires not included

FINISHES

Shaft	Galvanised Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)
--------------	--

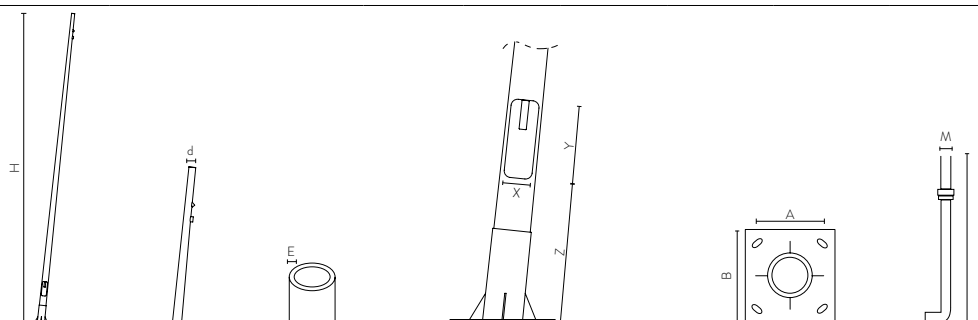
PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).
Shaft	Conical tapering
Trapdoor	Flush with interior reinforcement and interior sleeve.
Construction	Support manufactured in a single section
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Carbon steel sheet, S235JR quality

REGULATIONS AND CERTIFICATES

Support according to	REGULATION EN 40-5
-----------------------------	--------------------

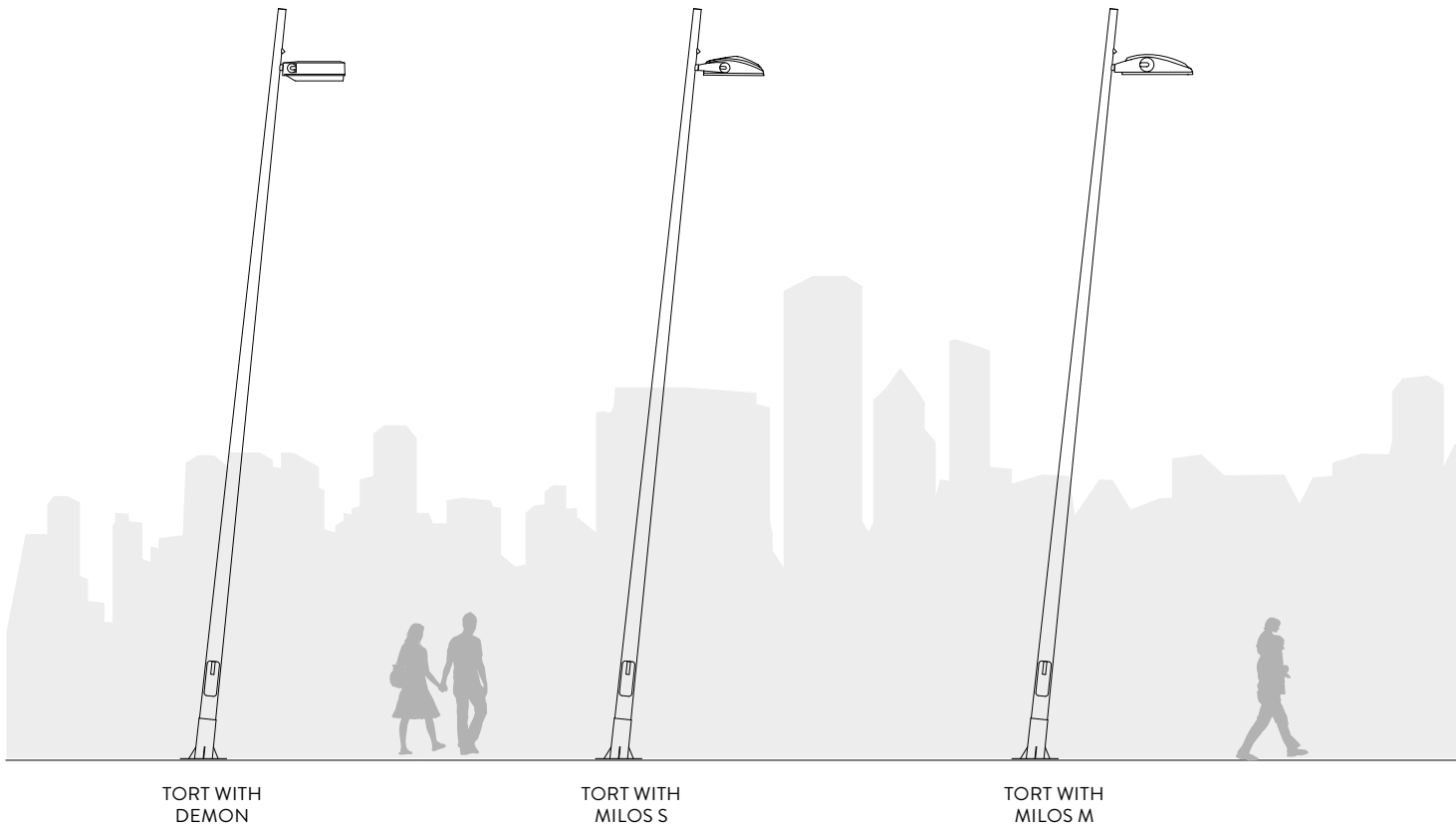
TECHNICAL INFORMATION* (Units in mm)



Model	Height	Diameter	Thickness	Door			Flange plate		Bolts	Code
	H			∅ d	E	X	Y	Z		
100	5,000	60	4	95	300	550	210	300	M20 x 500	S-586005
	6,000	60	4	110	300	550	300	400	M22 x 600	S-586006
	7,000	60	4	115	300	550	300	400	M22 x 600	S-586007
	8,000	76	4	120	300	550	300	400	M22 x 600	S-586008
	9,000	76	4	125	300	550	300	400	M22 x 600	S-586009
	10,000	76	4	130	300	550	350	500	M24 x 800	S-586010

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






TORT WITH DEMON

TORT WITH MILOS S

TORT WITH MILOS M

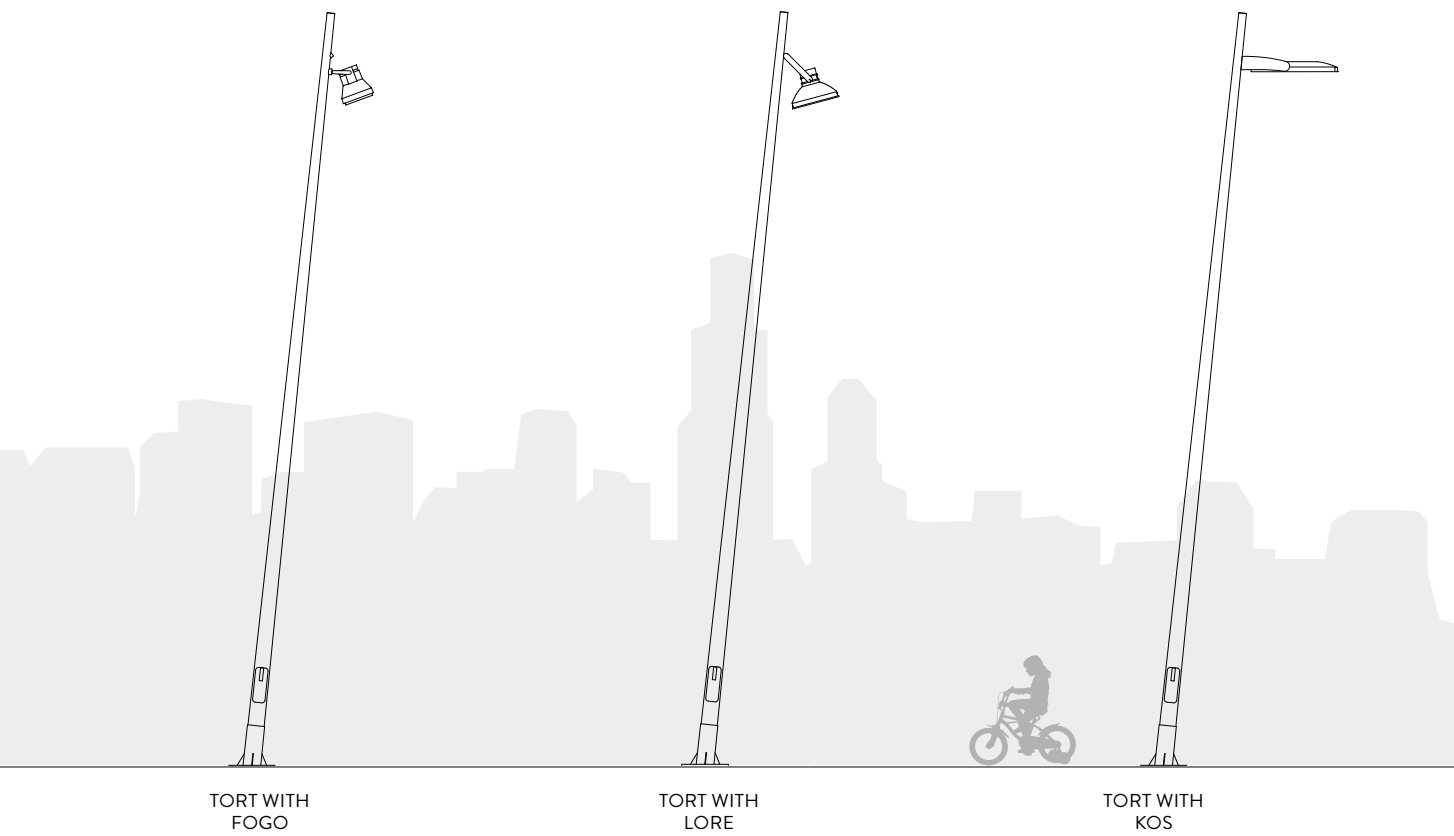
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



TORT WITH
FOGO

TORT WITH
LORE

TORT WITH
KOS

ACCESSORIES / REPLACEMENTS

Description

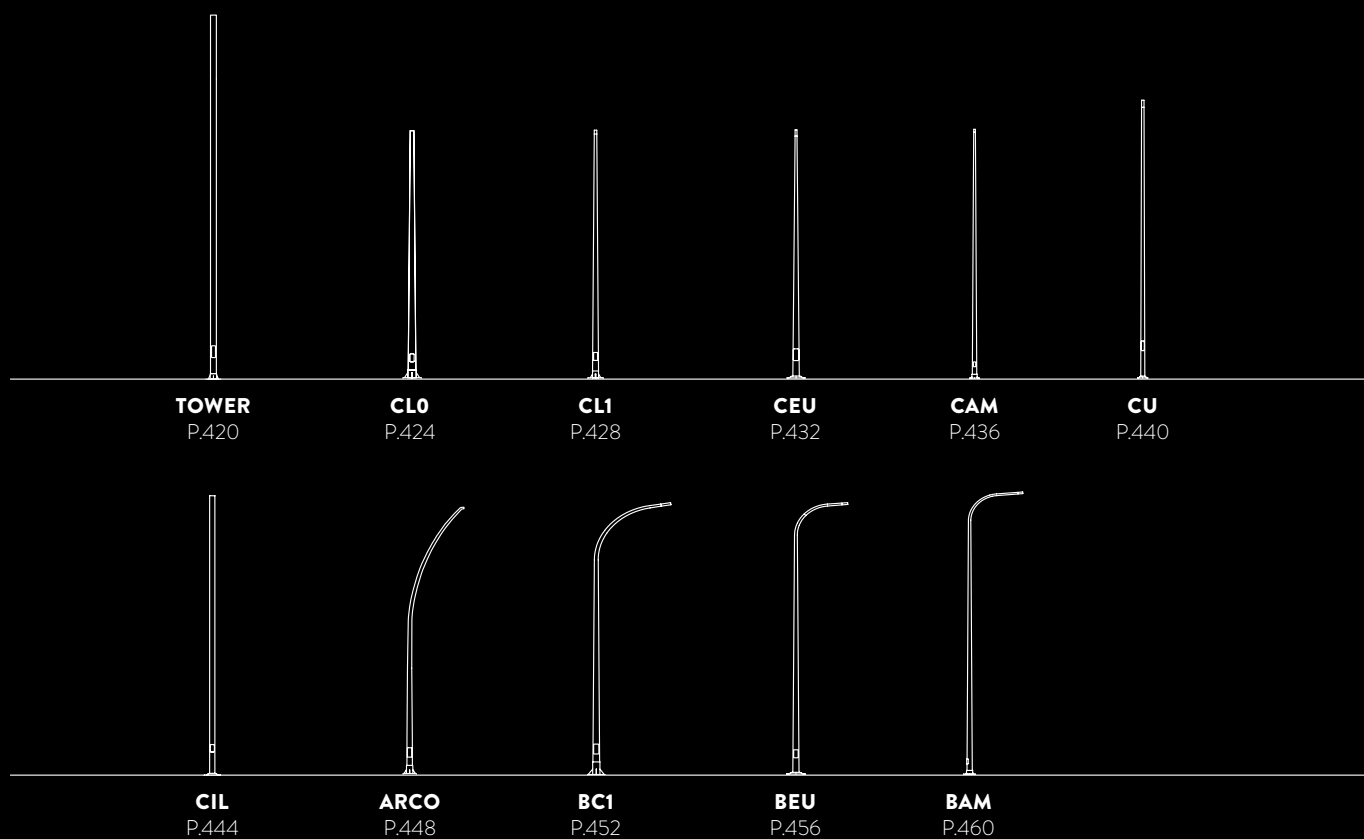
Order code

Triangular 10 mm key to close trapdoor

50-73265



FUNCTIONAL POLES



Simon's full high-performance road light proposal, with an innovative design and equipped with an advanced patented thermal dissipation system, offering multiple lighting distributions for the development of highly efficient and precise lighting projects.



TOWER

Simon TOWER decorative pole, up to 16 m high, cylindrical, lateral fastening for spotlights.



Simon **TOWER** decorative pole, up to 16 m high, cylindrical, lateral fastening for spotlights.

Flat flange plate with reinforcing ring and gussets, shaft and fastening rings made of S235JR - quality sheet carbon steel.

Three flush trapdoors with interior reinforcement.

Lateral spotlight fastening with rings, with three M12 screw terminals located at 120°, with various ring orientations.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Recommended luminaires: DEMON, MILOS MXF, MILOS SXF, FOGO, LORE and KOS.

FASTENING SYSTEMS

Luminaire fastening Lateral fastening through separate rings with three M12 screw terminals placed at 120°

Notes 14 and 16 m models are supplied disassembled
Anchoring bolts and template provided
Luminaires not included

FINISHES

Shaft Galvanised
Simon Colours (Standard Paint / Seafront Paint)
RAL chart colours (Standard Paint / Seafront Paint)

PHYSICAL FEATURES AND MATERIALS

IP IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).

Shaft Cylindrical

Trapdoor Three flush doors with interior reinforcement

Construction Support manufactured in one or two sections

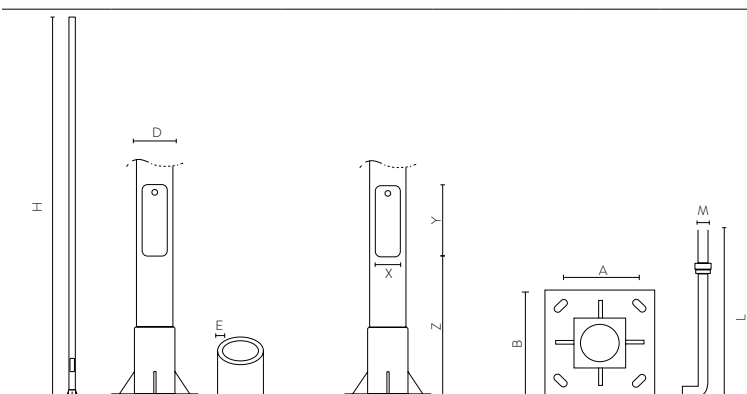
Shaft Carbon steel sheet, S235JR quality

Flange plate Recessed steel sheet, S235JR quality

REGULATIONS AND CERTIFICATES

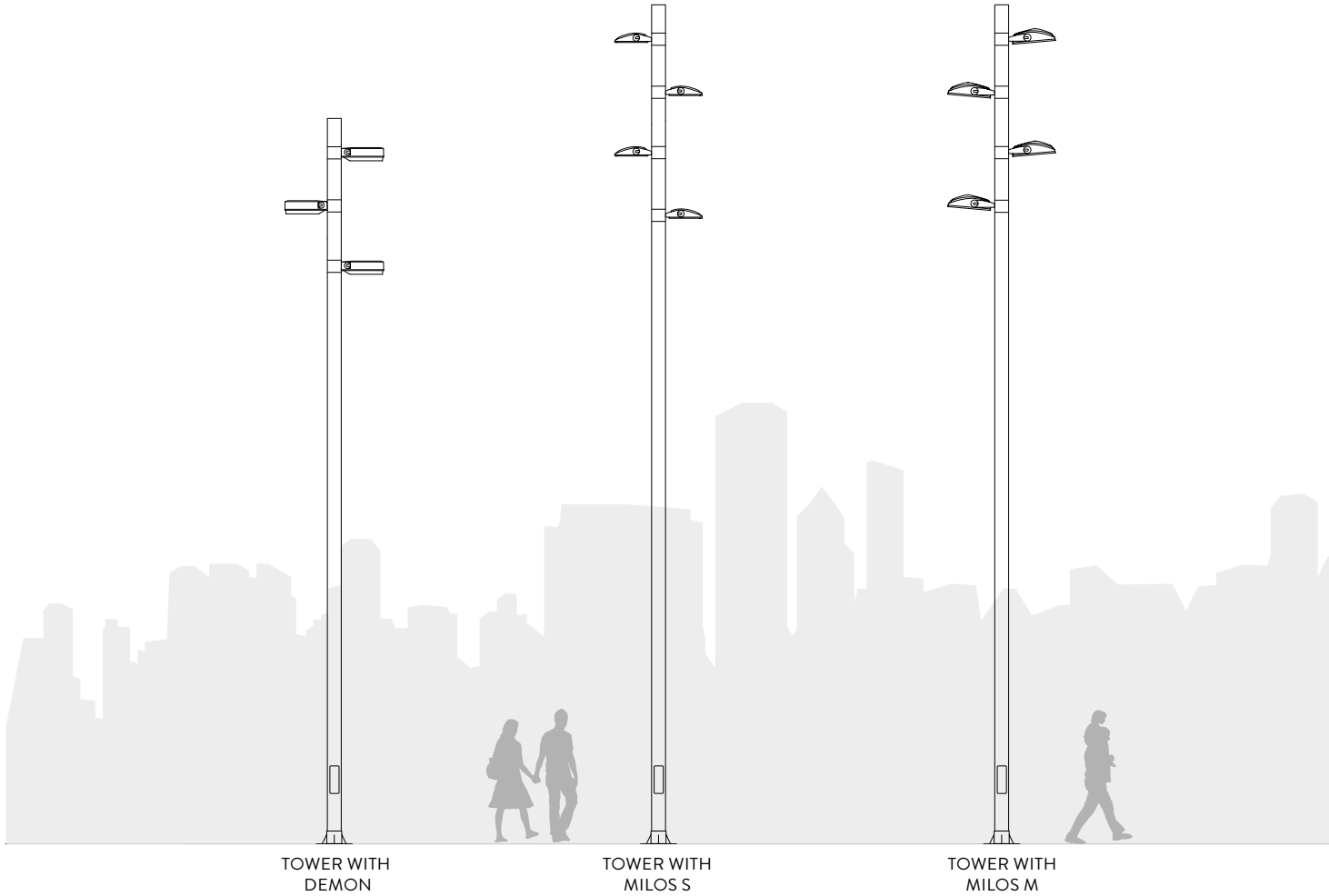
Support according to REGULATION EN 40-5

TECHNICAL INFORMATION* (Units in mm)



Height	Diameter	Thickness	Door			Flange plate		Bolts	H1	H2	H3	H4	H5	H6	Code
H	∅ D	E	X	Y	Z	A	B	M x L							
9,000	219	4	140	300	550	350	500	M24x800	6,200	7,250	8,300				S-580009
12,000	219	4	140	300	550	350	500	M24x800	8,300	9,300	10,300	11,300			S-580012
14,000	219	8	140	300	550	350	500	M24x800	9,300	10,300	11,300	12,300	13,300		S-580014
16,000	244	8	140	300	550	350	500	M24x800	10,300	11,300	12,300	13,300	14,300	15,300	S-580016

* Check other measurements or configurations



TOWER WITH DEMON

TOWER WITH MILOS S

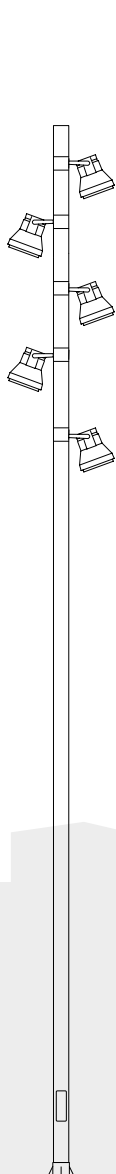
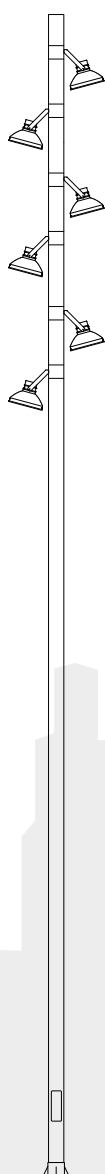
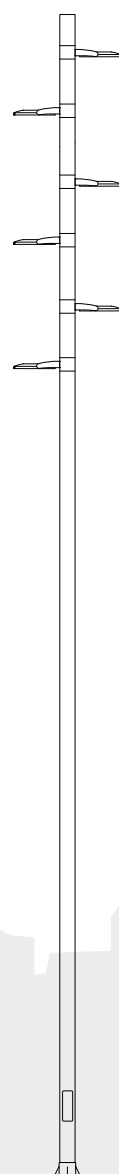
TOWER WITH MILOS M

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*	Acid-less protection	Stick-less protection	Draw-less protection
Standard finish: hot dip galvanised**	✓		
Standard Paint Finish: hot dip galvanised** and painted	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively

TOWER WITH
FOGOTOWER WITH
LORETOWER WITH
KOS

ACCESSORIES / REPLACEMENTS

Description	Order code
-------------	------------

Triangular 10 mm key to close trapdoor	50-73265
--	----------



CLO

Simon CLO functional pole, up to 12 m high, conical tapering and post-top luminaire fastening.



Simon **CLO** functional pole, up to 12 m high, conical tapering and post-top luminaire fastening.
Flat flange plate with reinforcing ring and gussets and shaft made of S235JR-quality sheet carbon steel.
Flush trapdoor with interior reinforcement.

Post-top luminaire fastening using $\varnothing 60$ mm x 100 mm or $\varnothing 76$ mm x 100 mm cylindrical terminal, and using conical finish for tops with larger diameters.
IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, ALTAIR IYF, MERAK SXF, MERAK SYF, HYDRA and SKAT.

FASTENING SYSTEMS

Luminaire fastening Post top through $\varnothing 60$ mm x 100 mm or $\varnothing 76$ mm x 100 mm cylindrical terminal. Tapered finish for larger diameters.

Notes Anchoring bolts and template provided.
Luminaires not included.

PHYSICAL FEATURES AND MATERIALS

IP IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).

Shaft Conical tapering

Trapdoor Flush with interior reinforcement

Construction Support manufactured in a single section

Shaft Carbon steel sheet, S235JR quality

Flange plate Flat steel sheet, S235JR quality, with reinforcing ring and gussets

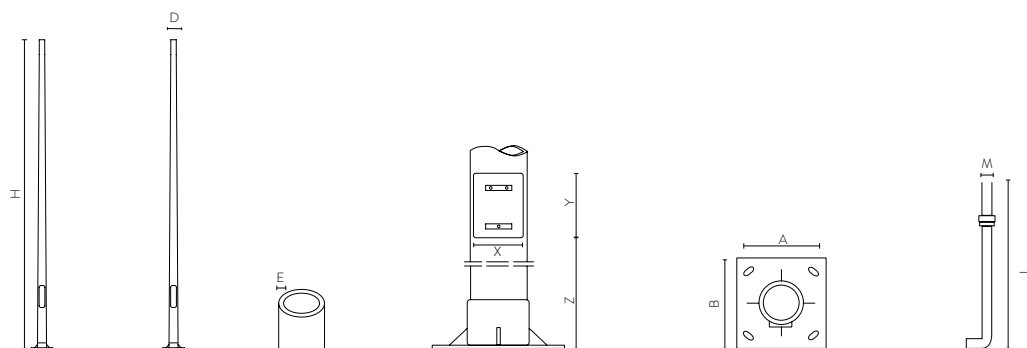
FINISHES

Shaft Galvanised
Simon Colours (Standard Paint / Seafront Paint)
RAL chart colours (Standard Paint / Seafront Paint)

REGULATIONS AND CERTIFICATES

Support according to REGULATION EN 40-5

TECHNICAL INFORMATION* (Units in mm)



Height	Diameter	Thickness	Door			Flange plate		Bolts	Code
H	$\varnothing D$	E	X	Y	Z	A	B	M x L	
3,500	60	3	75	135	385	175	250	M14x350	S-553335
4,000	60	3	75	135	550	215	300	M18x500	S-553304
5,000	60	3	95	300	550	215	300	M18x500	S-553305
6,000	60	3	110	300	550	215	300	M18x500	S-553306
7,000	60	3	115	300	550	285	400	M22x600	S-553307
8,000	60	3	120	300	550	285	400	M22x600	S-553308
8,000	76	3	120	300	550	285	400	M22x600	S-554308
9,000	60	3	125	300	550	285	400	M22x600	S-553309
9,000	76	4	125	300	550	285	400	M22x600	S-554409
10,000	60	4	130	300	550	285	400	M22x600	S-553410
10,000	76	4	130	300	550	285	400	M22x600	S-554410
10,000	88	4	130	300	550	285	400	M22x600	S-555410
12,000	60	4	140	300	550	285	400	M22x600	S-553412
12,000	76	4	140	300	550	285	400	M22x600	S-554412
12,000	88	4	140	300	550	285	400	M22x600	S-555412

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)



CLO WITH NATH S




CLO WITH NATH M

CLO WITH NATH L

CLO WITH ALTAIR IXF

CLO WITH ALTAIR IYF

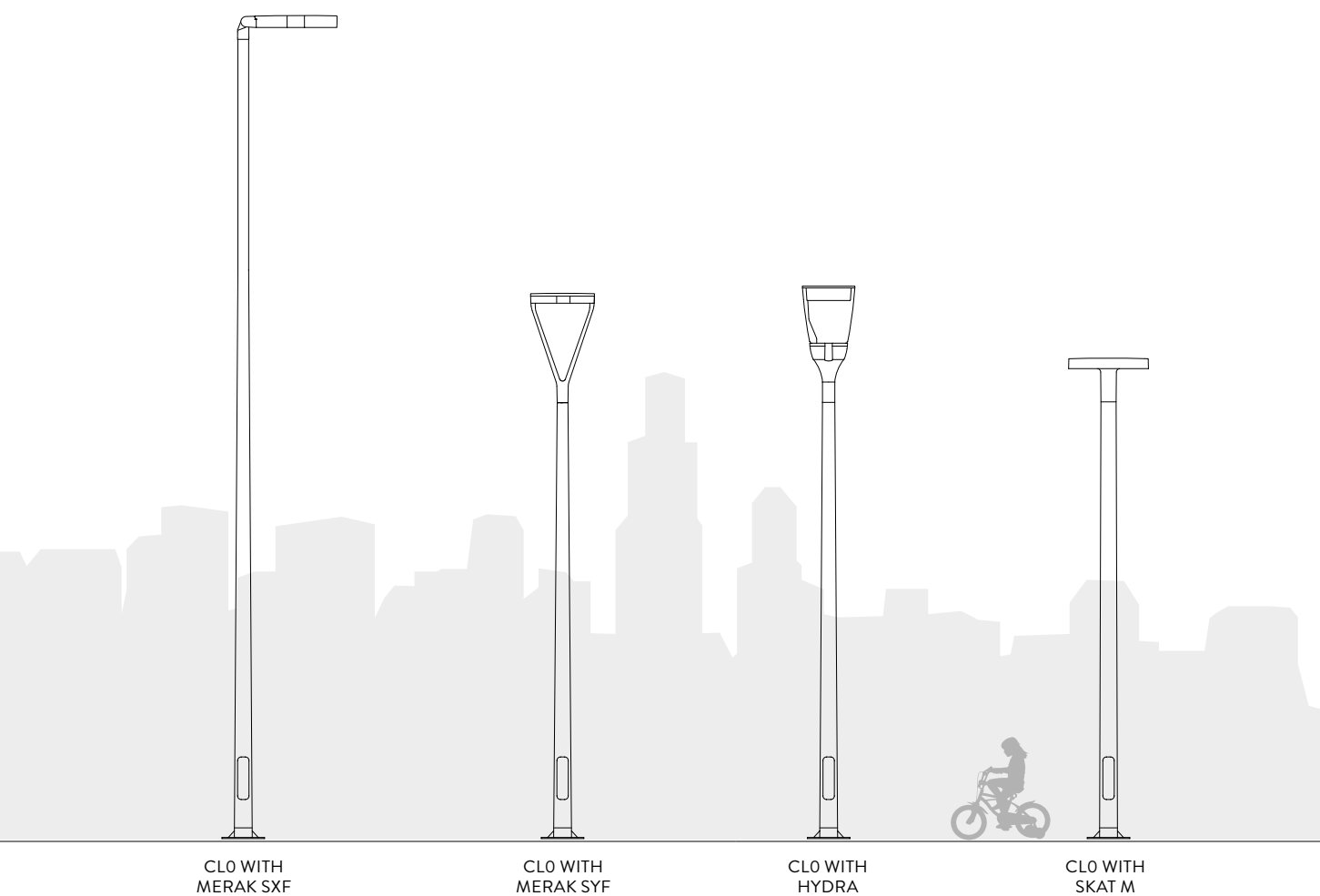
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively

CLO WITH
MERAK SXFCLO WITH
MERAK SYFCLO WITH
HYDRACLO WITH
SKAT M

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265
Flush door replacement, 3.5 m pole height, 60 mm post-top diameter, galvanised finish	S-550356
Flush door replacement, 4 m pole height, 60 mm post-top diameter, galvanised finish	S-550406
Flush door replacement, 5 m pole height, 60 mm post-top diameter, galvanised finish	S-550507
Flush door replacement, 6 and 7 m pole height, 60 mm post-top diameter, galvanised finish	S-550606
Flush door replacement, 8 m pole height, 60 mm post-top diameter, galvanised finish	S-550806
Flush door replacement, 8 m pole height, 76 mm post-top diameter, galvanised finish	S-550807
Flush door replacement, 9 m pole height, 60 mm post-top diameter, galvanised finish	S-550906

ACCESSORIES / REPLACEMENTS

Description	Order code
Flush door replacement, 9 m pole height, 76 mm post-top diameter, galvanised finish	S-550907
Flush door replacement, 10 m pole height, 60 mm post-top diameter, galvanised finish	S-551006
Flush door replacement, 10 m pole height, 76 mm post-top diameter, galvanised finish	S-551007
Flush door replacement, 10 m pole height, 88 mm post-top diameter, galvanised finish	S-551008
Flush door replacement, 12 m pole height, 60 mm post-top diameter, galvanised finish	S-551206
Flush door replacement, 12 m pole height, 76 mm post-top diameter, galvanised finish	S-551207
Flush door replacement, 12 m pole height, 88 mm post-top diameter, galvanised finish	S-551208



CL1

Simon CL1 functional pole, up to 12 m high, conical tapering and post-top luminaire fastening.



Simon **CL1** functional pole, up to 12 m high, conical tapering, and post-top luminaire fastening.
 Flat flange plate with reinforcing ring and gussets and shaft made of S235JR-quality sheet carbon steel.
 Flush trapdoor with interior reinforcement and interior sleeve.
 Post-top luminaire fastening using Ø60 mm x 100 mm or Ø76 mm x 100 mm cylindrical terminal, or using conical finish for tops with larger diameters.
 IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.
 Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.
 Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.
 Pole with CE-certified constancy of performance. Pole meets City of Barcelona product specifications.
 Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, ALTAIR IYF, MERAK SXF, MERAK SYF and SKAT.

FASTENING SYSTEMS

Luminaire fastening	Post top through Ø60 mm x 100 mm or Ø76 mm x 100 mm cylindrical terminal. Tapered finish for larger diameters.
Notes	Anchoring bolts and template provided. Luminaires not included.

FINISHES

Shaft	Galvanised Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)
--------------	--

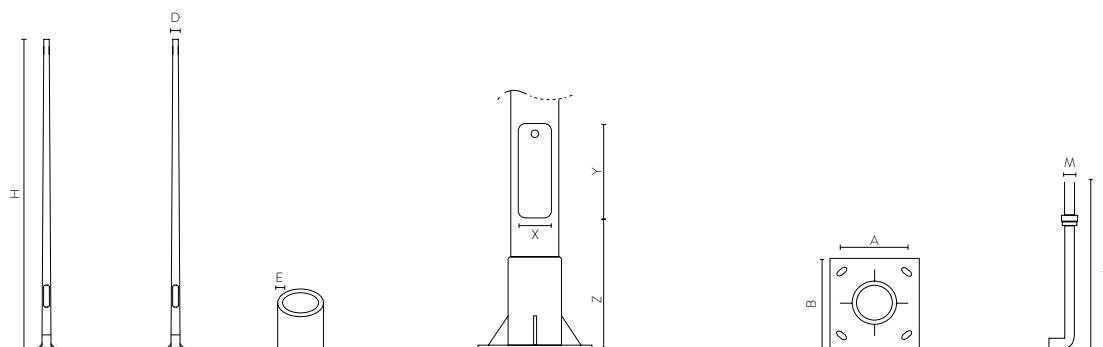
PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).
Shaft	Conical tapering
Trapdoor	Flush with interior reinforcement and interior sleeve
Construction	Support manufactured in a single section
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Carbon steel sheet, S235JR quality

REGULATIONS AND CERTIFICATES

Support according to	REGULATION EN 40-5
-----------------------------	--------------------

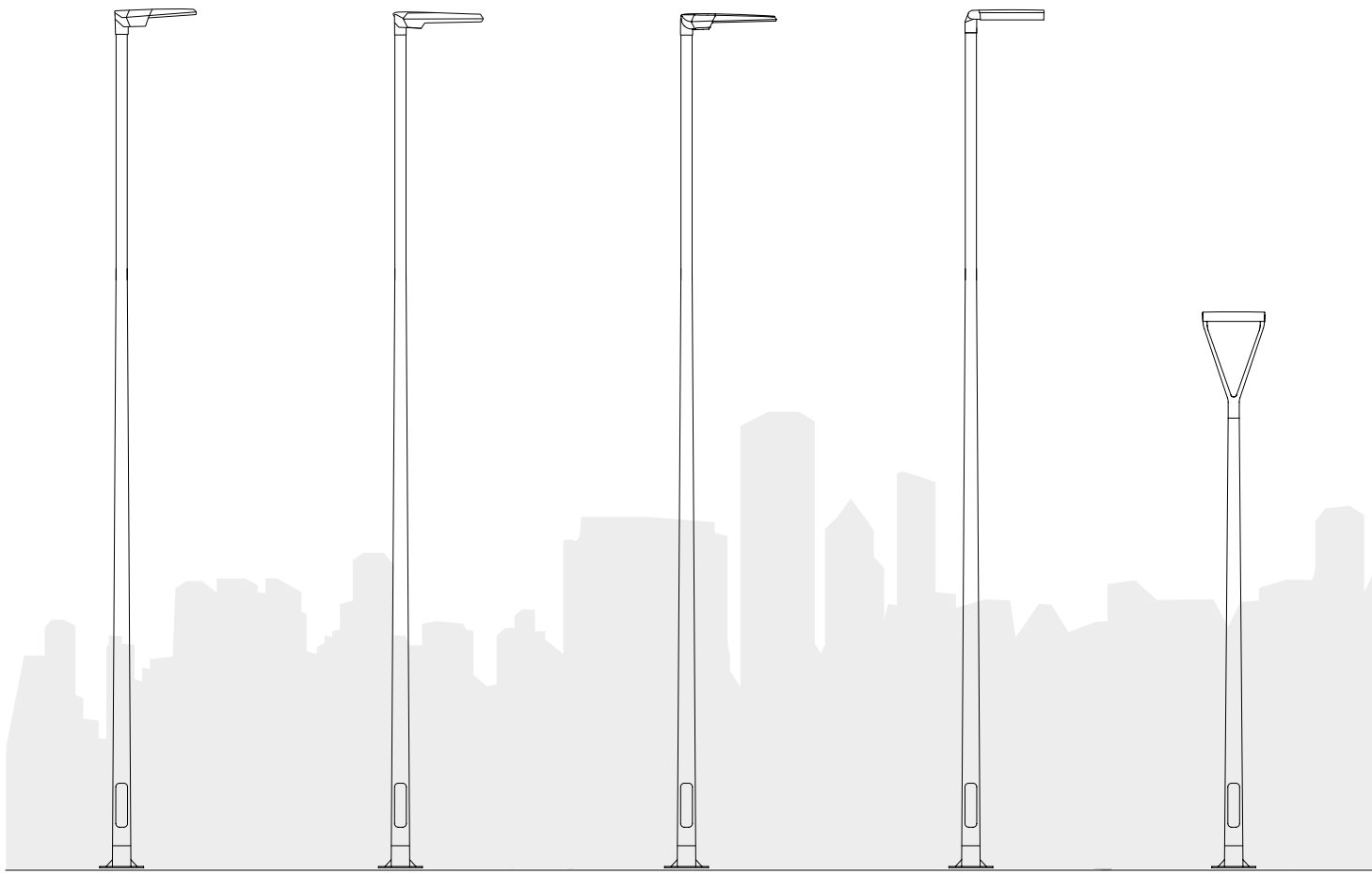
TECHNICAL INFORMATION* (Units in mm)



Height	Diameter	Thickness	Door			Flange plate		Bolts	Code
H	Ø D	E	X	Y	Z	A	B	M x L	
5,000	60	3	95	300	550	210	300	M20x500	S-583005
6,000	60	3	110	300	550	300	400	M22x600	S-583006
7,000	60	3	115	300	550	300	400	M22x600	S-583007
7,500	60	3	120	300	550	300	400	M22x600	S-583075
8,000	60	3	120	300	550	300	400	M22x600	S-583008
9,000	60	3	125	300	550	300	400	M22x600	S-583009
9,000	76	3	125	300	550	300	400	M22x600	S-584009
10,000	60	4	130	300	550	350	500	M24x800	S-583010
10,000	76	4	130	300	550	350	500	M24x800	S-584010
11,000	60	4	135	300	550	350	500	M24x800	S-583011
11,000	76	4	135	300	550	350	500	M24x800	S-584011
12,000	60	4	140	300	550	350	500	M24x800	S-583012
12,000	76	4	140	300	550	350	500	M24x800	S-584012

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)



CL1 WITH NATH S




CL1 WITH NATH M

CL1 WITH NATH L

CL1 WITH ALTAIR IXF

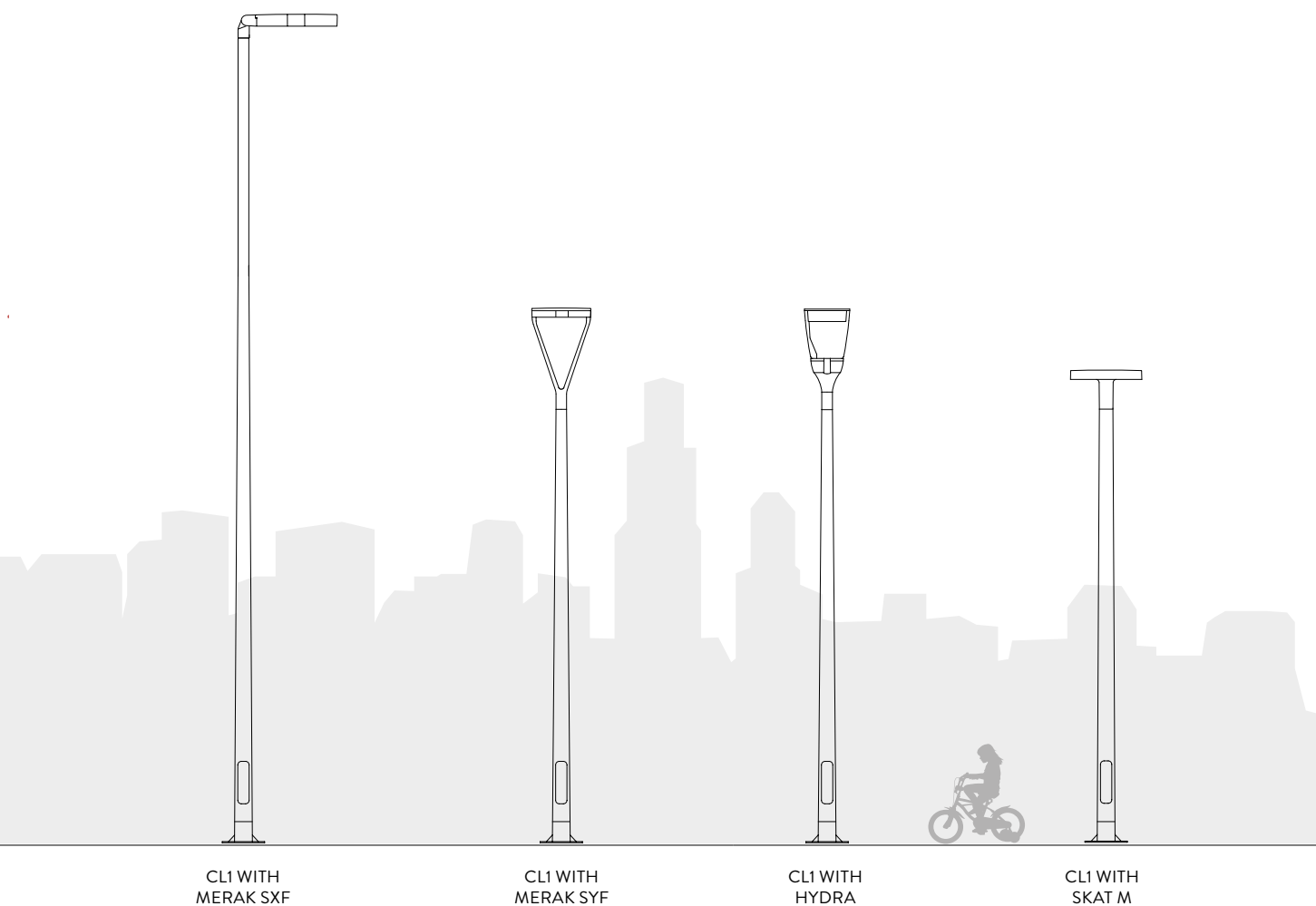
CL1 WITH ALTAIR IYF

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively

CL1 WITH
MERAK SXFCL1 WITH
MERAK SYFCL1 WITH
HYDRACL1 WITH
SKAT M

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265
Flush door replacement, 5 m pole height, 60 mm post-top diameter, galvanised finish	S-550406
Flush door replacement, 6 m pole height, 60 mm post-top diameter, galvanised finish	S-550507
Flush door replacement, 7 m pole height, 60 mm post-top diameter, galvanised finish	S-550606
Flush door replacement, 7.5 m pole height, 60 mm post-top diameter, galvanised finish	S-550756
Flush door replacement, 8 m pole height, 60 mm post-top diameter, galvanised finish	S-550806
Flush door replacement, 9 m pole height, 60 mm post-top diameter, galvanised finish	S-550906

ACCESSORIES / REPLACEMENTS

Description	Order code
Flush door replacement, 9 m pole height, 76 mm post-top diameter, galvanised finish	S-550907
Flush door replacement, 10 m pole height, 60 mm post-top diameter, galvanised finish	S-551006
Flush door replacement, 10 m pole height, 76 mm post-top diameter, galvanised finish	S-551007
Flush door replacement, 11 m pole height, 60 mm post-top diameter, galvanised finish	S-551106
Flush door replacement, 11 m pole height, 76 mm post-top diameter, galvanised finish	S-551107
Flush door replacement, 12 m pole height, 60 mm post-top diameter, galvanised finish	S-551206
Flush door replacement, 12 m pole height, 76 mm post-top diameter, galvanised finish	S-551207



CEU

Simon CEU functional pole, up to 12 m high, conical tapering, and post-top luminaire fastening.



Simon **CEU** functional pole, up to 12 m high, conical tapering, and post-top luminaire fastening.

Recessed flange plate and shaft made of S235JR - quality sheet carbon steel.

Flush trapdoor with interior reinforcement.

Post-top luminaire fastening using Ø60 mm x 100 mm or Ø76 mm x 100 mm cylindrical terminal, and using conical finish for tops with larger diameters.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, ALTAIR IYF, MERAK SXF, MERAK SYF, HYDRA and SKAT.

FASTENING SYSTEMS

Luminaire fastening	Post top through Ø60 mm x 100 mm or Ø76 mm x 100 mm cylindrical terminal. Tapered finish for larger diameters.
Notes	Anchoring bolts and template provided. Luminaires not included.

PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).
Shaft	Conical tapering
Trapdoor	Flush with interior reinforcement
Construction	Support manufactured in a single section
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, recessed

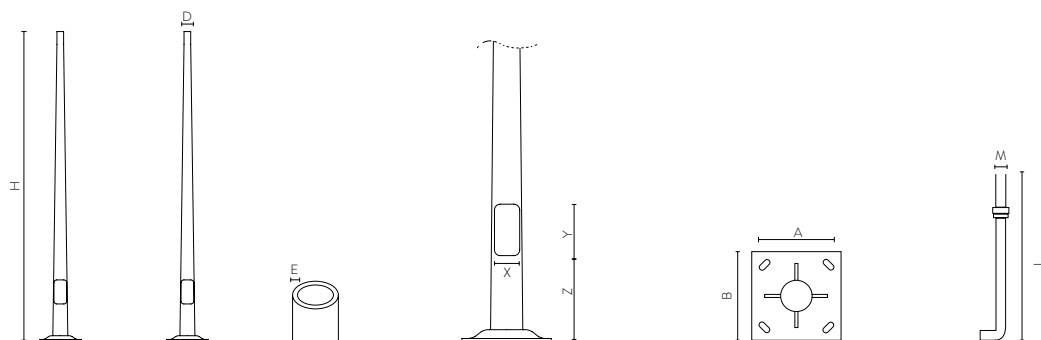
FINISHES

Shaft	Galvanised Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)
--------------	--

REGULATIONS AND CERTIFICATES

Support according to	REGULATION EN 40-5
-----------------------------	--------------------

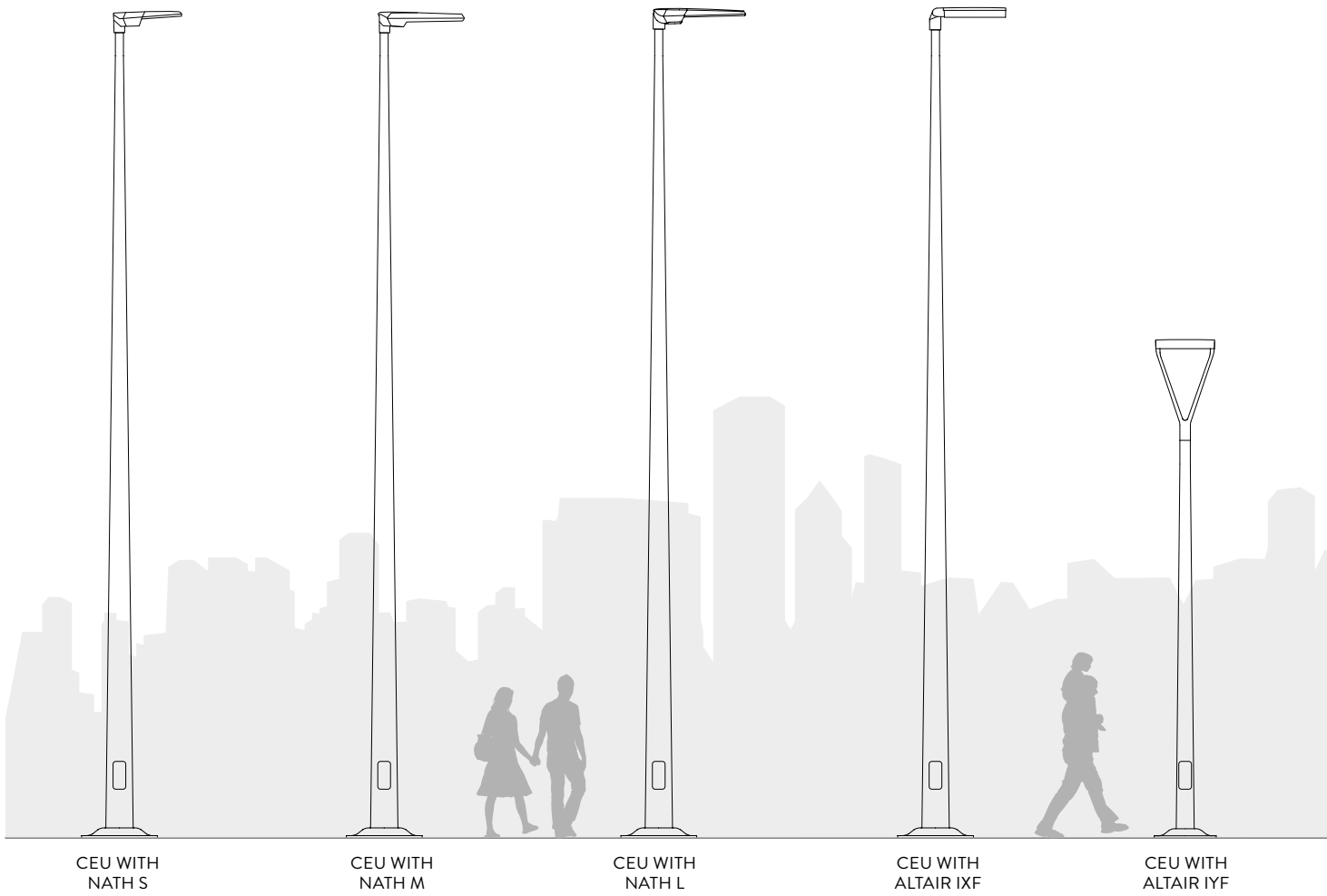
TECHNICAL INFORMATION* (Units in mm)



Height	Diameter	Thickness	Door			Flange plate		Bolts	Code
H	Ø D	E	X	Y	Z	A	B	M x L	
4,000	60	3	90	300	550	215	300	M16x500	CEU04603
5,000	60	3	100	300	550	215	300	M16x500	CEU05603
6,000	60	3	105	300	550	215	300	M18x500	CEU06603
7,000	60	3	115	300	550	285	400	M20x500	CEU07603
8,000	60	3	120	300	550	285	400	M20x500	CEU08603
8,000	60	4	120	300	550	285	400	M20x500	CEU08604
9,000	60	3	125	300	550	285	400	M20x500	CEU09603
9,000	60	4	125	300	550	285	400	M20x500	CEU09604
10,000	60	3	125	300	550	285	400	M22x600	CEU10603
10,000	60	4	125	300	550	285	400	M22x600	CEU10604
12,000	60	4	130	300	550	285	400	M22x600	CEU12604
12,000	76	4	130	300	550	285	400	M22x600	CEU12764

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)



CEU WITH NATH S




CEU WITH NATH M

CEU WITH NATH L

CEU WITH ALTAIR IXF

CEU WITH ALTAIR IYF

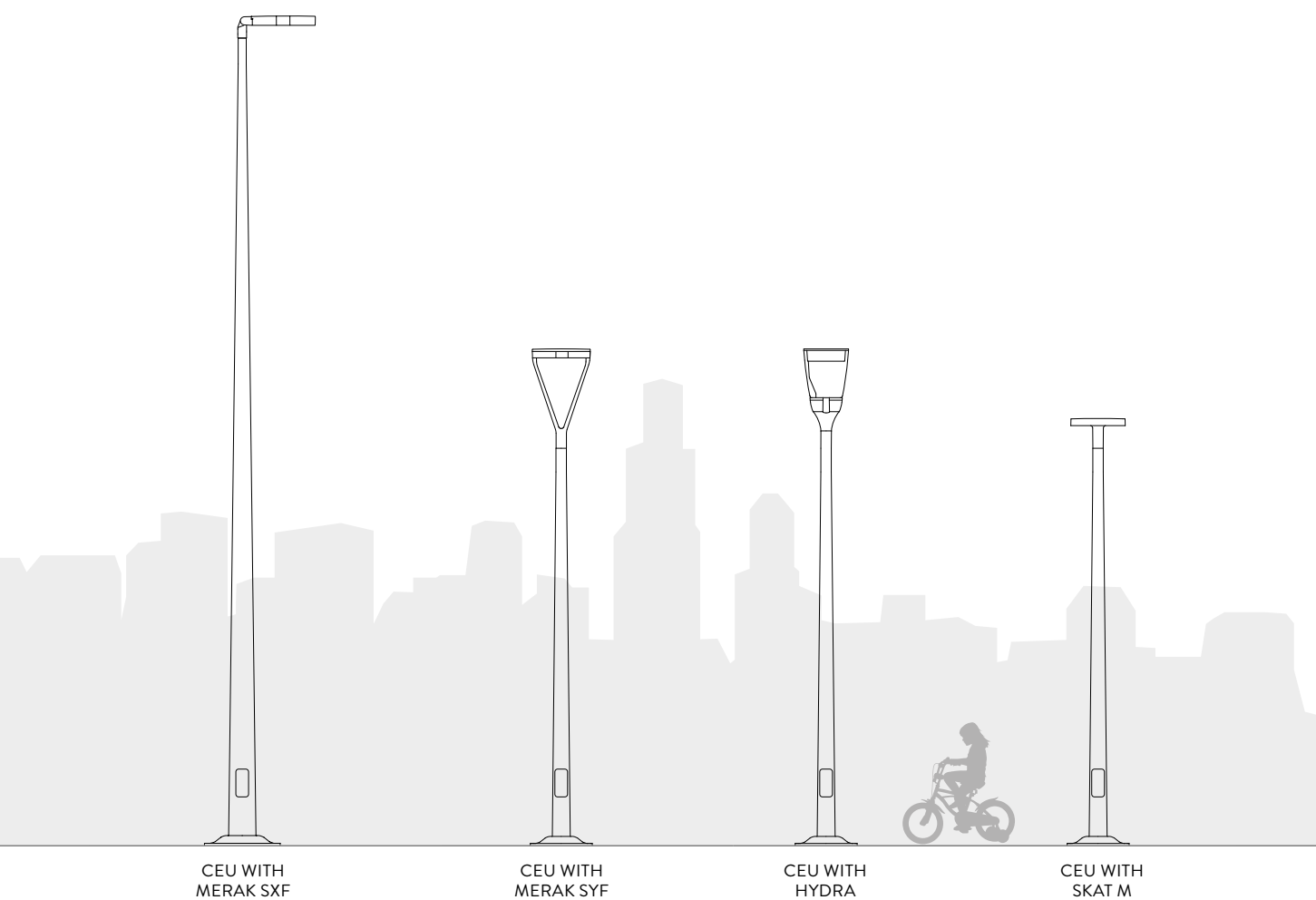
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively

CEU WITH
MERAK SXFCEU WITH
MERAK SYFCEU WITH
HYDRACEU WITH
SKAT M

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265
Flush door replacement, 4 and 5 m pole height, 60 mm post-top diameter, galvanised finish	S-550406
Flush door replacement, 6 m pole height, 60 mm post-top diameter, galvanised finish	S-550507
Flush door replacement, 7 m pole height, 60 mm post-top diameter, galvanised finish	S-550606
Flush door replacement, 7.5 m pole height, 60 mm post-top diameter, galvanised finish	S-550756
Flush door replacement, 8 m pole height, 60 mm post-top diameter, galvanised finish	S-550806

ACCESSORIES / REPLACEMENTS

Description	Order code
Flush door replacement, 9 m pole height, 60 mm post-top diameter, galvanised finish	S-550906
Flush door replacement, 10 m pole height, 60 mm post-top diameter, galvanised finish	S-551006
Flush door replacement, 11 m pole height, 60 mm post-top diameter, galvanised finish	S-551106
Flush door replacement, 12 m pole height, 60 mm post-top diameter, galvanised finish	S-551206
Flush door replacement, 12 m pole height, 76 mm post-top diameter, galvanised finish	S-551007



CAM

Simon CAM functional pole, up to 12 m high, conical tapering, and post-top luminaire fastening.



Simon **CAM** functional pole, up to 12 m high, conical tapering, and post-top luminaire fastening.
Flat flange plate with reinforcing ring and gussets and shaft made of S235JR-quality sheet carbon steel.
Flat trapdoor with exterior reinforcement frame.

Post-top luminaire fastening using $\varnothing 60$ mm x 100 mm or $\varnothing 76$ mm x 100 mm cylindrical terminal, and using conical finish for tops with larger diameters. Allows post-top fastening using a $\varnothing 50$ mm x 100 mm cylindrical terminal or $\varnothing 60$ mm x 100 mm cylindrical coupling on the pole's $\varnothing 76$ mm tapered tip.
IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, ALTAIR IYF, MERAK SXF, MERAK SYF, HYDRA and SKAT.

FASTENING SYSTEMS

Luminaire fastening Post top through $\varnothing 60$ mm x 100 mm or $\varnothing 76$ mm x 100 mm cylindrical terminal. Tapered finish for larger diameters. Models whose reference number ends in P50 are supplied with the luminaire coupling tip reduced to 50 mm. Models whose reference number ends in M60 are manufactured based on a post-top $\varnothing 76$ mm conical tapering tube with a $\varnothing 60$ mm coupling.

Notes Anchoring bolts and template provided.
Luminaires not included.

FINISHES

Shaft Galvanised
Simon Colours (Standard Paint / Seafront Paint)
RAL chart colours (Standard Paint / Seafront Paint)

REGULATIONS AND CERTIFICATES

Support according to REGULATION EN 40-5

PHYSICAL FEATURES AND MATERIALS

IP IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).

Shaft Conical tapering

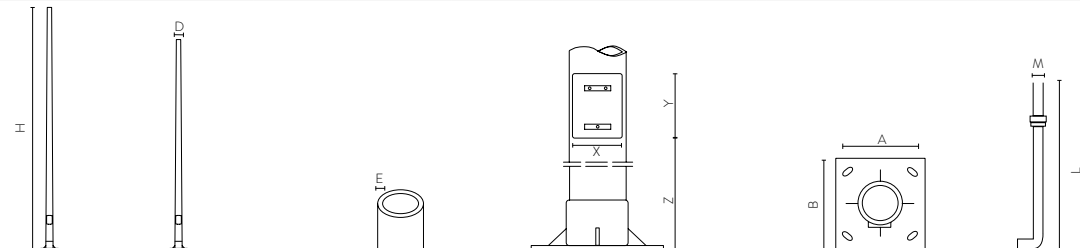
Trapdoor With exterior reinforcement frame

Construction Support manufactured in a single section

Shaft Carbon steel sheet, S235JR quality

Flange plate Flat steel sheet, S235JR quality, with reinforcing ring and gussets

TECHNICAL INFORMATION* (Units in mm)



Height	Diameter	Coupling	Thickness	Door			Flange plate		Bolts	Code
H	$\varnothing D$		E	X	Y	Z	A	B	M x L	
4,000	60	-	3	102	162	410	215	300	M16x500	CAM04603
4,000	76	60	3	102	162	410	215	300	M16x500	CAM04763M60
5,000	60	-	3	102	162	410	215	300	M16x500	CAM05603
5,000	76	60	3	102	162	410	215	300	M16x500	CAM05763M60
6,000	60	-	3	102	162	410	215	300	M18x500	CAM06603
6,000	50	50	3	102	162	410	215	300	M18x500	CAM06603P50
6,000	76	60	3	102	162	410	215	300	M18x500	CAM06763M60
7,000	60	-	3	102	162	410	285	400	M20x500	CAM07603
8,000	60	-	3	140	192	440	285	400	M20x500	CAM08603
8,000	60	-	4	140	192	440	285	400	M20x500	CAM08604
8,000	76	-	3	140	192	440	285	400	M20x500	CAM08763
8,000	76	-	4	140	192	440	285	400	M20x500	CAM08764
9,000	60	-	3	140	192	440	285	400	M20x500	CAM09603
9,000	60	-	4	140	192	440	285	400	M20x500	CAM09604
9,000	76	-	3	140	192	440	285	400	M20x500	CAM09763
9,000	76	-	4	140	192	440	285	400	M20x500	CAM09764
9,000	88	-	3	140	192	440	285	400	M20x500	CAM09883
9,000	88	-	4	140	192	440	285	400	M20x500	CAM09884
10,000	60	-	3	140	192	440	285	400	M22x600	CAM10603
10,000	60	-	4	140	192	440	285	400	M22x600	CAM10604
10,000	76	-	3	140	192	440	285	400	M22x600	CAM10763
10,000	76	-	4	140	192	440	285	400	M22x600	CAM10764
10,000	88	-	3	140	192	440	285	400	M22x600	CAM10883
10,000	88	-	4	140	192	440	285	400	M22x600	CAM10884
12,000	60	-	4	140	192	440	285	400	M22x600	CAM12604
12,000	76	-	4	140	192	440	285	400	M22x600	CAM12764
12,000	76	60	4	140	192	440	285	400	M22x600	CAM12764M60
12,000	88	-	4	140	192	440	285	400	M22x600	CAM12884

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)



CAM WITH NATH S




CAM WITH NATH M

CAM WITH NATH L

CAM WITH ALTAIR IXF

CAM WITH ALTAIR IYF

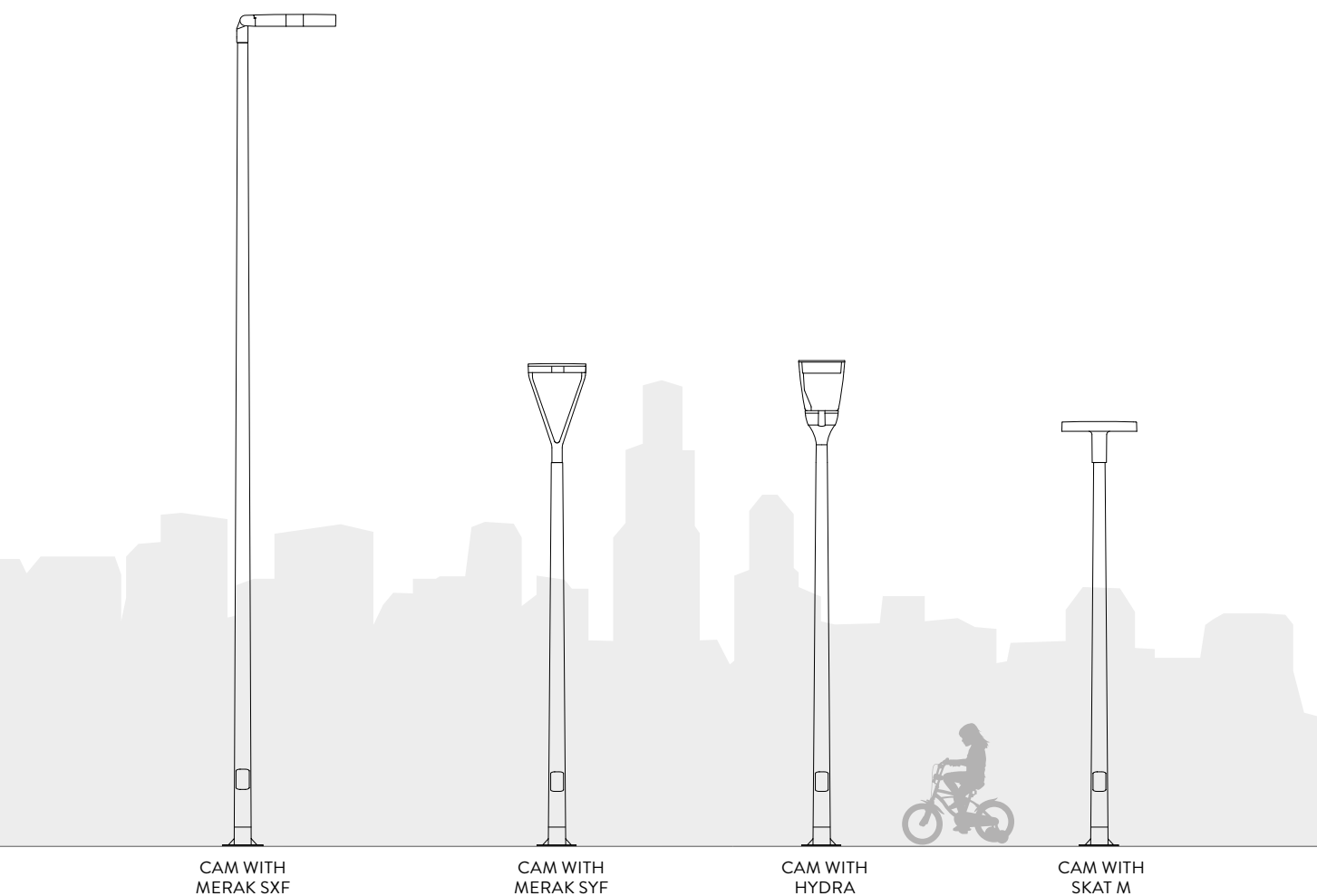
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265
Flush door replacement, 4 to 7 m pole height, galvanised finish	50-70988
Flush door replacement, 8 to 12 m pole height, galvanised finish	50-71269



CU

Simon CU functional pole, up to 3.9 m high, conical tapering, and post-top luminaire fastening.



Simon **CU** functional pole, up to 3.9 m high, conical tapering, and post-top luminaire fastening.

Recessed flange plate and shaft made of S235JR - quality sheet carbon steel.

Overlapping trapdoor with interior reinforcement.

Post-top luminaire fastening using Ø50 mm x 100 mm or Ø60 mm x 100 mm cylindrical terminal.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, ALTAIR IYF, MERAK SXF, MERAK SYF, HYDRA and SKAT.

FASTENING SYSTEMS

Luminaire fastening	Post top through Ø50 mm x 100 mm or Ø60 mm cylindrical terminal
Notes	Anchoring bolts and template provided. Luminaires not included.

FINISHES

Shaft	Galvanised Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)
--------------	--

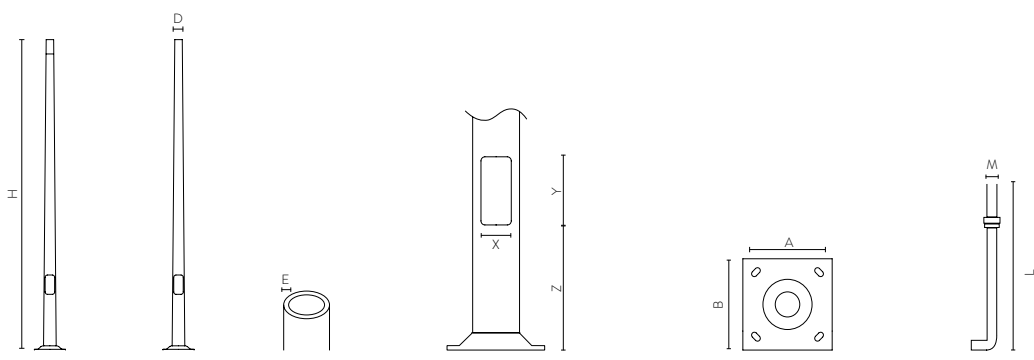
PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).
Shaft	Conical tapering
Trapdoor	Overlapping tabs with interior reinforcement
Construction	Support manufactured in a single section
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, recessed

REGULATIONS AND CERTIFICATES

Support according to	REGULATION EN 40-5
-----------------------------	--------------------

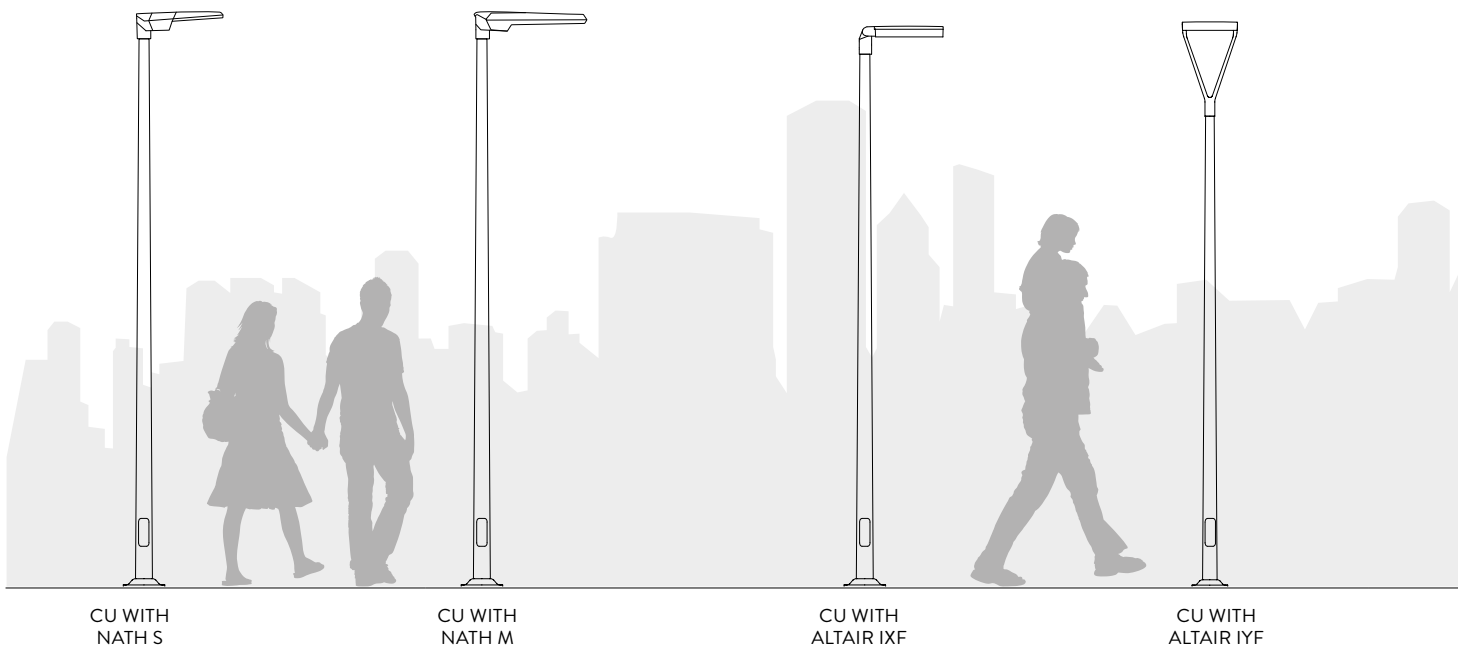
TECHNICAL INFORMATION* (Units in mm)



Height	Diameter	Thickness	Door			Flange plate		Bolts	Code
H	Ø D	E	X	Y	Z	A	B	M x L	
3,000	50	3	74	135	380	185	250	M14x350	CU30503
3,000	60	3	74	135	380	185	250	M14x350	CU30603
3,500	50	3	74	135	380	185	250	M14x350	CU35503
3,500	60	3	74	135	380	185	250	M14x350	CU35603
3,900	50	3	74	135	380	185	250	M14x350	CU39503
3,900	60	3	74	135	380	185	250	M14x350	CU39603

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






CU WITH NATH S

CU WITH NATH M

CU WITH ALTAIR IXF

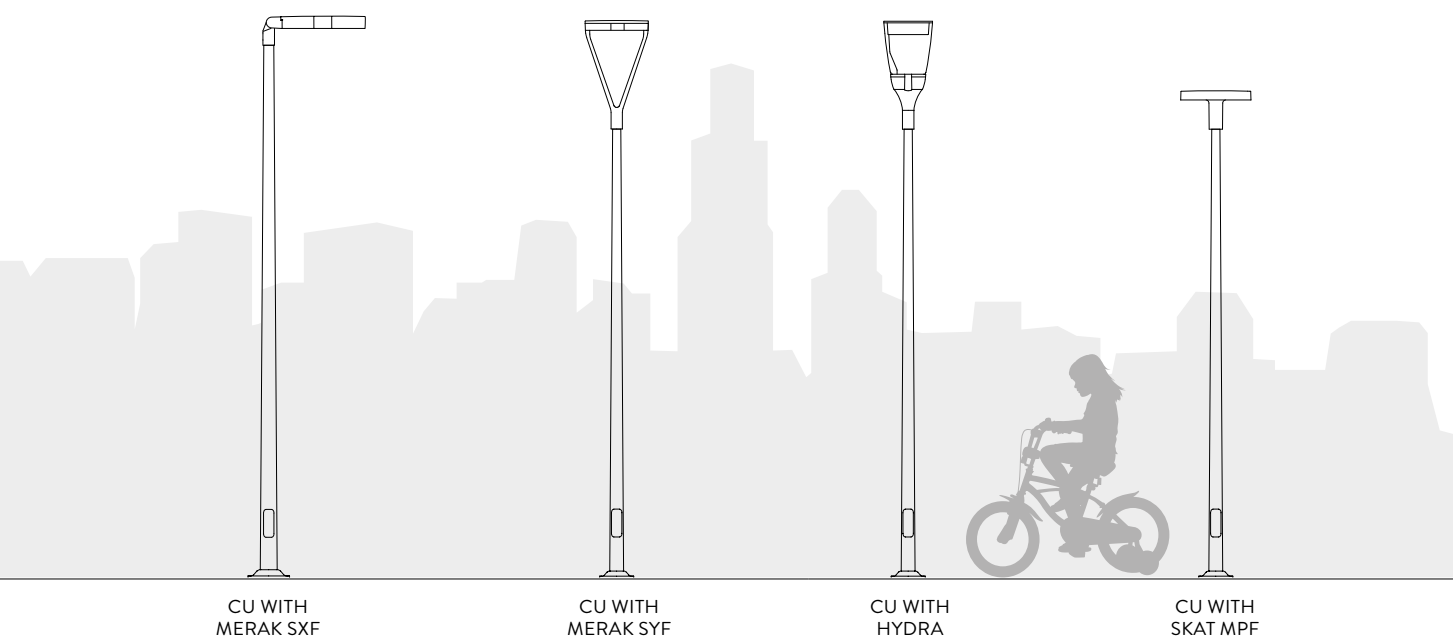
CU WITH ALTAIR IYF

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

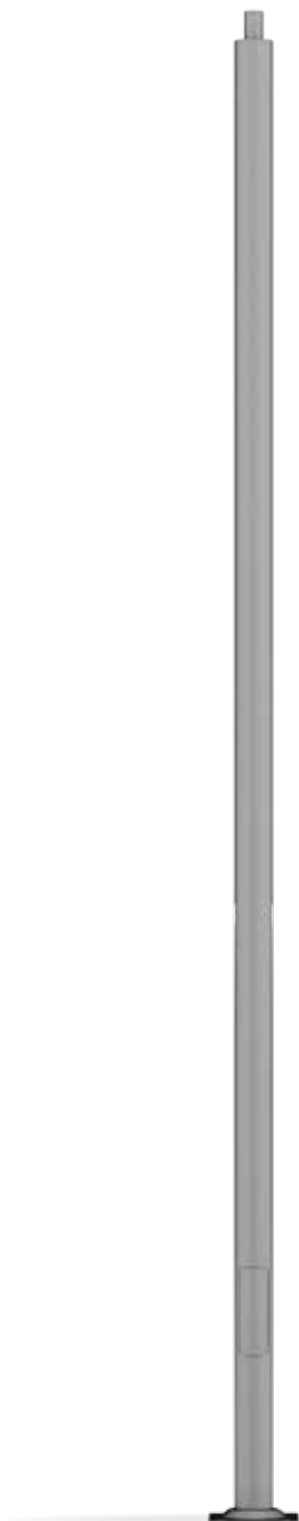
* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively

CU WITH
MERAK SXFCU WITH
MERAK SYFCU WITH
HYDRACU WITH
SKAT MPF

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265
Overlapping door replacement, 3 m pole height, 50 mm post-top diameter, galvanised finish	50-73077
Overlapping door replacement, 3 m pole height, 60 mm post-top diameter, and 3.5 m pole height, 50 mm and 60 mm post-top diameter, galvanised finish	50-73076
Overlapping door replacement, 3.9 m pole height, 50 mm and 60 mm post-top diameter, galvanised finish	50-73003



CIL

Simon CIL functional pole, up to 7 m high, cylindrical, and post-top luminaire fastening.



Simon **CIL** functional pole, up to 7 m high, cylindrical, and post-top luminaire fastening.

Recessed flange plate and shaft made of S235JR - quality sheet carbon steel.

Flush trapdoor with interior reinforcement.

Post-top luminaire fastening through $\varnothing 60$ mm x 100 mm cylindrical coupling.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, ALTAIR IYF, MERAK SXF, MERAK SYF, HYDRA and SKAT.

FASTENING SYSTEMS

Luminaire fastening Post top through $\varnothing 60$ mm x 100 mm cylindrical terminal

Notes Anchoring bolts and template provided.
Luminaires not included.

FINISHES

Shaft Galvanised
Simon Colours (Standard Paint / Seafront Paint)
RAL chart colours (Standard Paint / Seafront Paint)

PHYSICAL FEATURES AND MATERIALS

IP IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).

Shaft Cylindrical

Trapdoor Flush with interior reinforcement

Construction Support manufactured in a single section

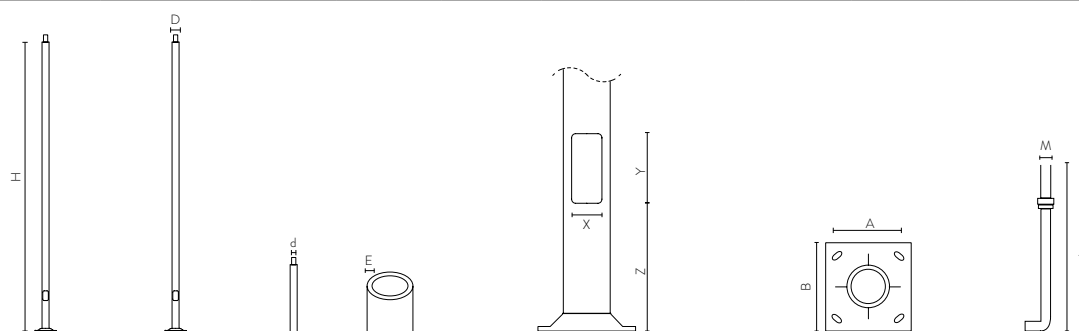
Shaft Carbon steel sheet, S235JR quality

Flange plate Flat steel sheet, S235JR quality, recessed

REGULATIONS AND CERTIFICATES

Support according to REGULATION EN 40-5

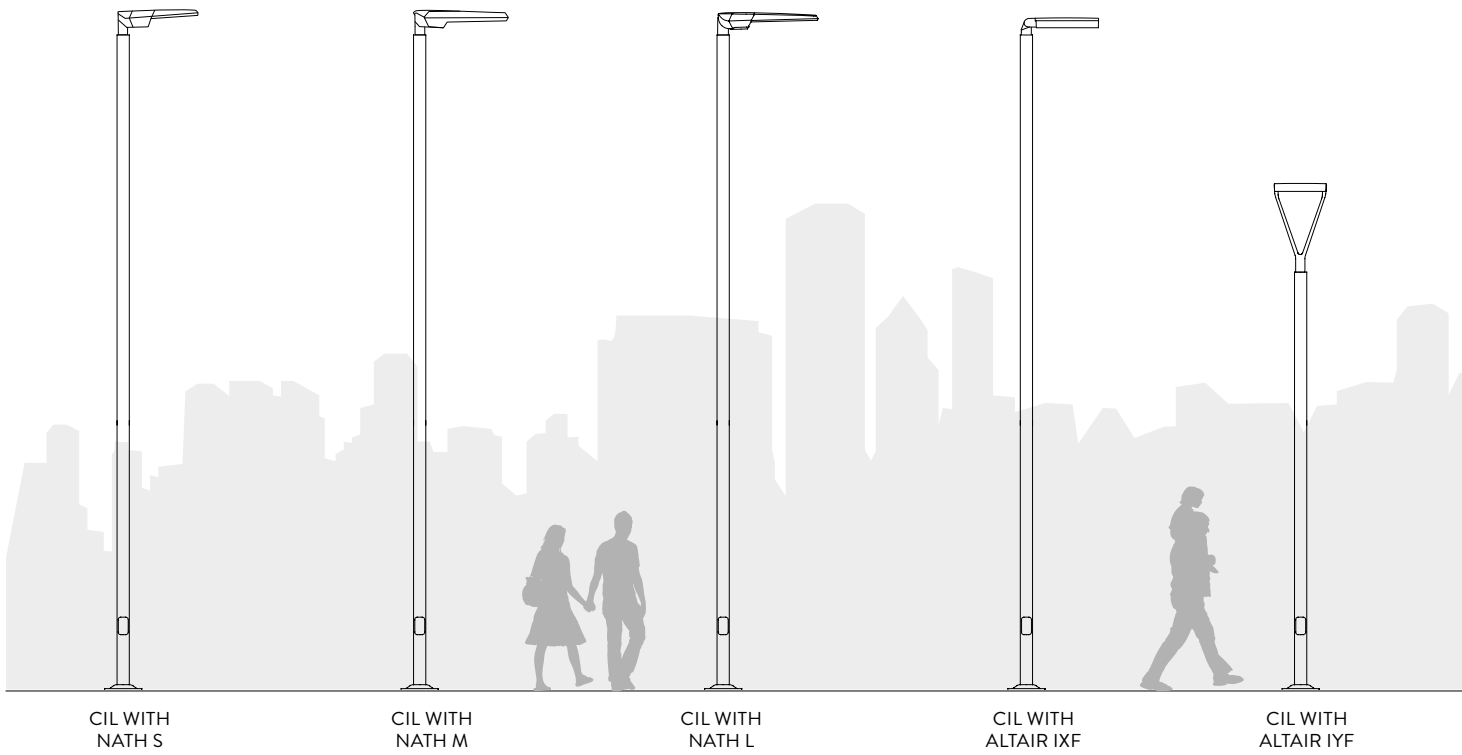
TECHNICAL INFORMATION* (Units in mm)



Height	Diameter	Coupling	Thickness	Door			Flange plate		Bolts	Code
H	$\varnothing D$	$\varnothing d$	E	X	Y	Z	A	B	M x L	
3,000	100	60	3	80	135	385	185	250	M14x350	CIL30100
3,500	100	60	3	80	135	385	185	250	M14x350	CIL35100
4,000	100	60	3	80	135	385	215	300	M16x500	CIL40100
5,000	100	60	3	80	135	385	215	300	M16x500	CIL50100
6,000	127	60	3	100	300	550	215	300	M18x500	CIL60127
7,000	127	60	3	100	300	550	285	400	M20x500	CIL70127

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)



CIL WITH NATH S




CIL WITH NATH M

CIL WITH NATH L

CIL WITH ALTAIR IXF

CIL WITH ALTAIR IYF

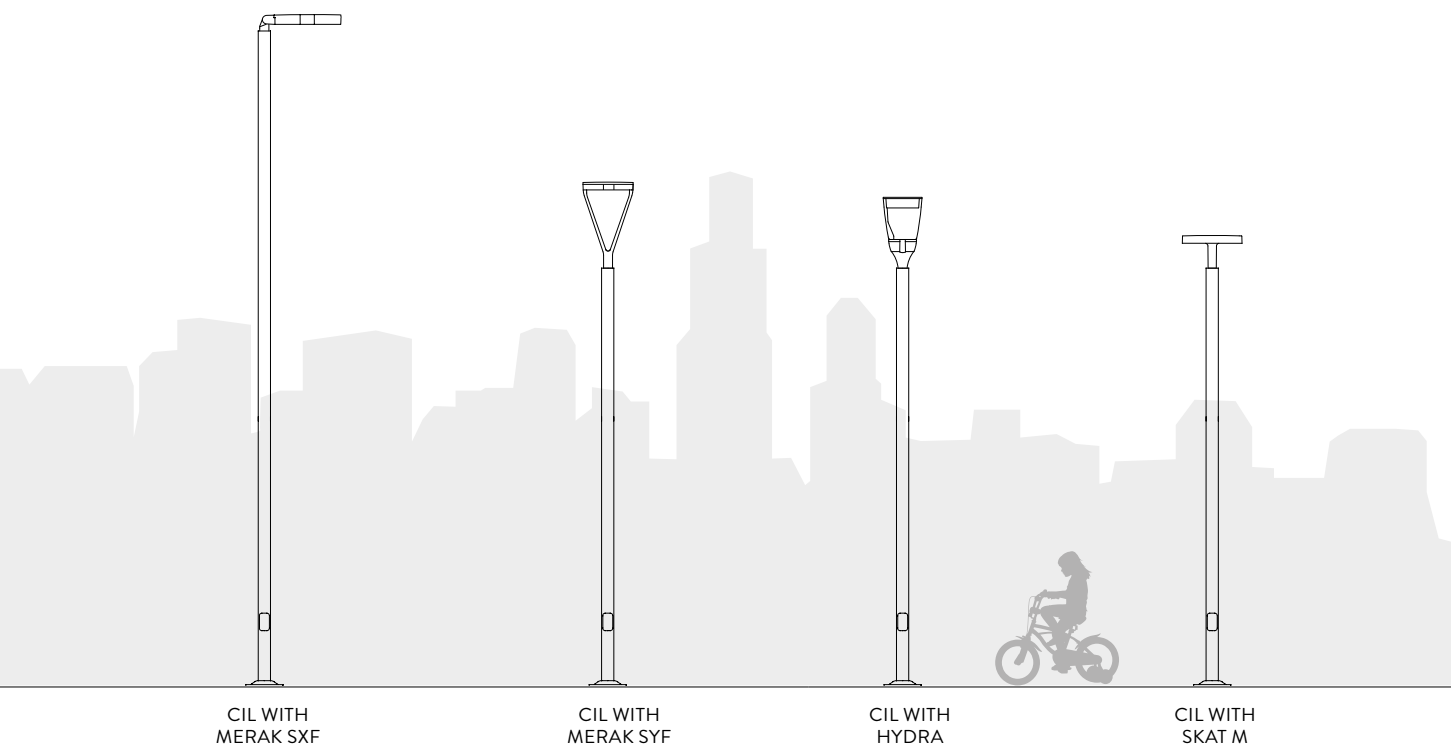
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



ACCESSORIES / REPLACEMENTS

Description	Order code
10 mm triangular closure post key	50-73265
Flush door replacement, 100 mm pole diameter, galvanised finish	50-70985
Flush door replacement, 127 mm pole diameter, galvanised finish	see



ARCO

Simon ARCO functional curved pole, up to 11 m high, three different bending radii, conical tapering, and post-top luminaire fastening using lateral coupling.



Simon **ARCO** functional curved pole, up to 11 m high, three different bending radii, conical tapering, and post-top luminaire fastening using lateral coupling. Flat flange plate with reinforcing ring and gussets and shaft made of S235JR-quality sheet carbon steel. Flush trapdoor with interior reinforcement.

Post-top luminaire lateral fastening using cylindrical coupling, Ø60 mm x 200 mm and 5° angle. IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes. Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included. Pole with CE-certified constancy of performance. Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF and ALYA.

FASTENING SYSTEMS

Luminaire fastening Lateral fastening through Ø60 mm x 200 mm coupling, and 5° angle.

Notes Anchoring bolts and template provided
Luminaires not included

FINISHES

Shaft Galvanised

Simon Colours (Standard Paint / Seafront Paint)
RAL chart colours (Standard Paint / Seafront Paint)

PHYSICAL FEATURES AND MATERIALS

IP IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).

Shaft Conical tapering

Trapdoor Flush with interior reinforcement

Construction Support manufactured in a single section

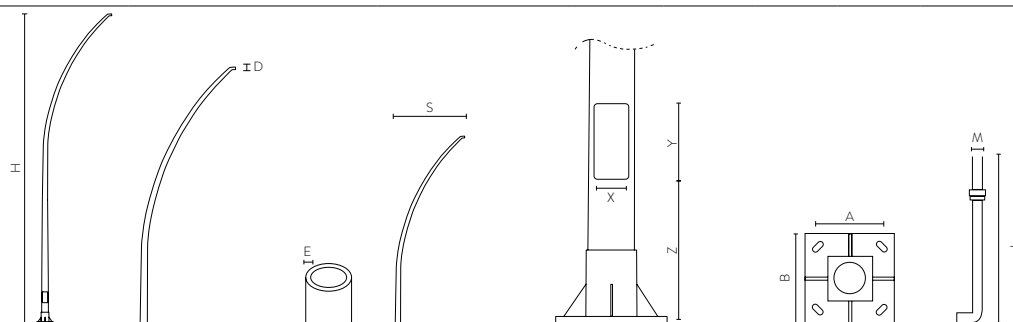
Shaft Carbon steel sheet, S235JR quality

Flange plate Flat steel sheet, S235JR quality, with reinforcing ring and gussets

REGULATIONS AND CERTIFICATES

Support according to REGULATION EN 40-5

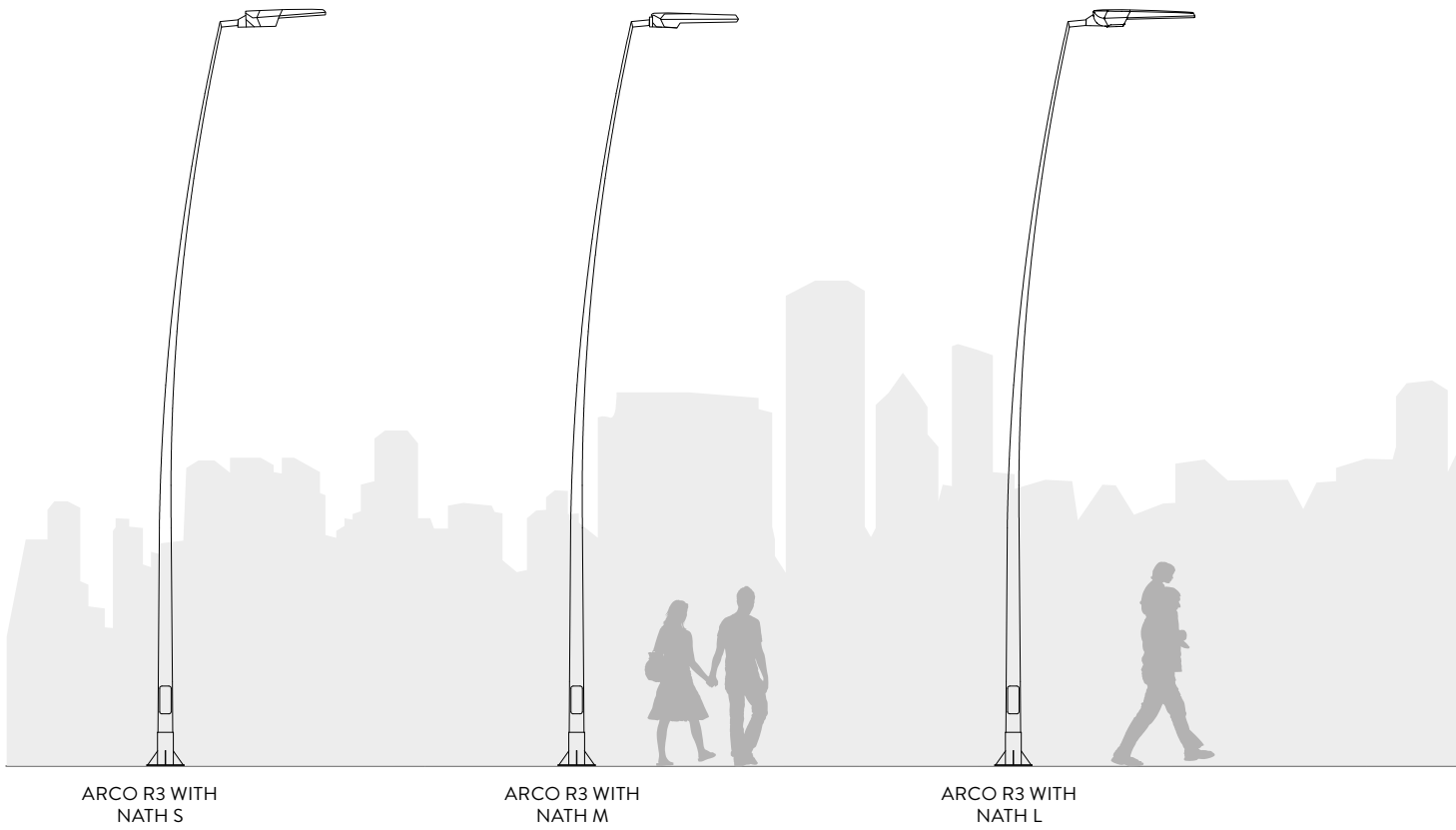
TECHNICAL INFORMATION* (Units in mm)



Model	Height	Diameter	Thickness	Overhang	Door			Flange plate		Bolts	Code
	H				X	Y	Z	A	B		
Arco R1	9,000	60	4	3,000	130	300	550	285	400	M22X600	S-581809
	10,000	60	4	3,500	135	300	550	285	400	M22X600	S-581810
	11,000	60	4	4,000	140	300	550	285	400	M22X600	S-581811
Arco R2	8,000	60	3	1,500	120	300	550	285	400	M22X600	S-581708
	9,000	60	3	1,500	125	300	550	285	400	M22X600	S-581709
	10,000	60	4	2,000	130	300	550	285	400	M22X600	S-581710
	11,000	60	4	2,000	135	300	550	285	400	M22X600	S-581711
Arco R3	8,000	60	3	550	120	300	550	285	400	M22X600	S-581608
	9,000	60	3	850	125	300	550	285	400	M22X600	S-581609
	10,000	60	4	1,000	130	300	550	285	400	M22X600	S-581610
	11,000	60	4	1,050	135	300	550	285	400	M22X600	S-581611

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






ARCO R3 WITH NATH S

ARCO R3 WITH NATH M

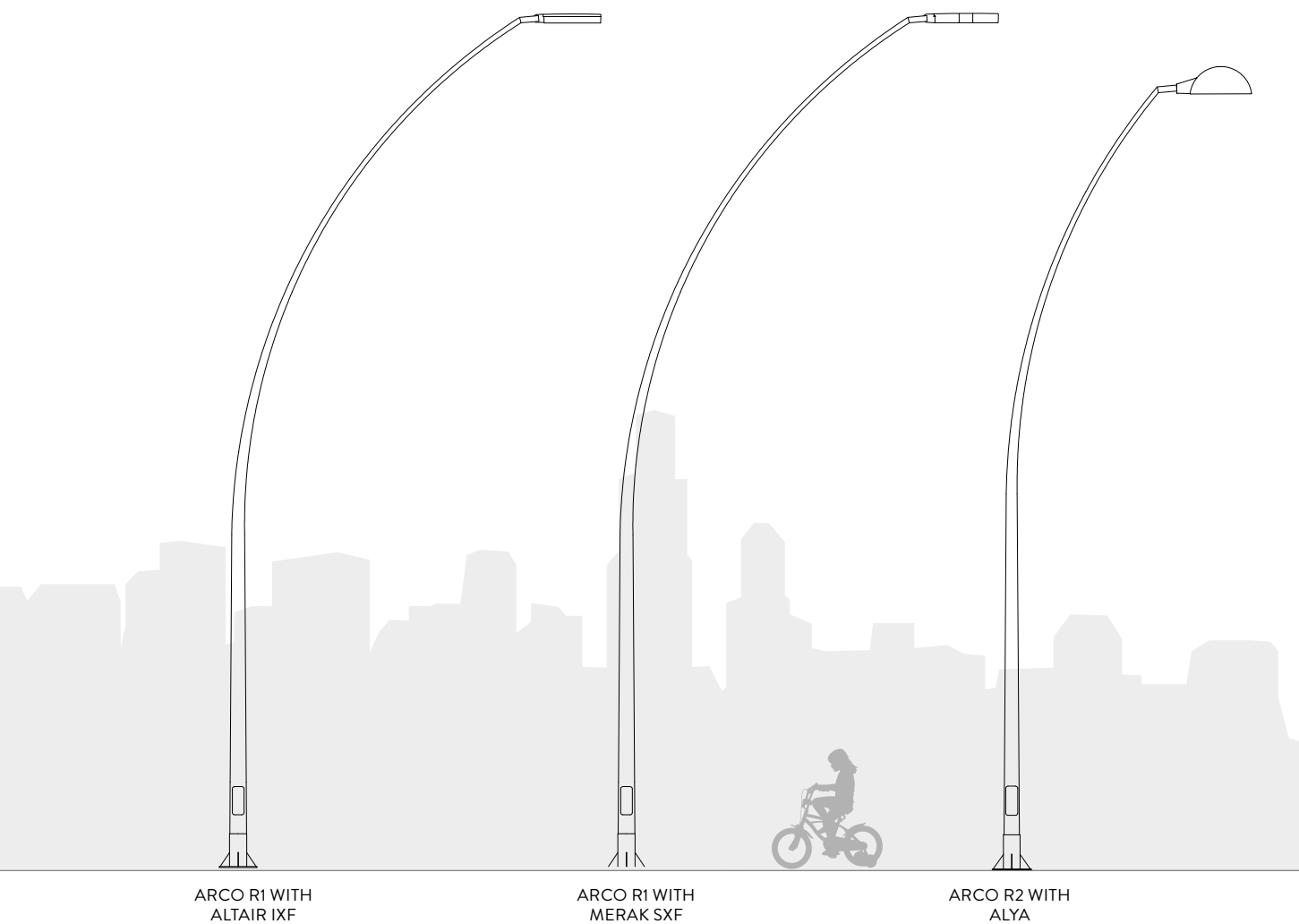
ARCO R3 WITH NATH L

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

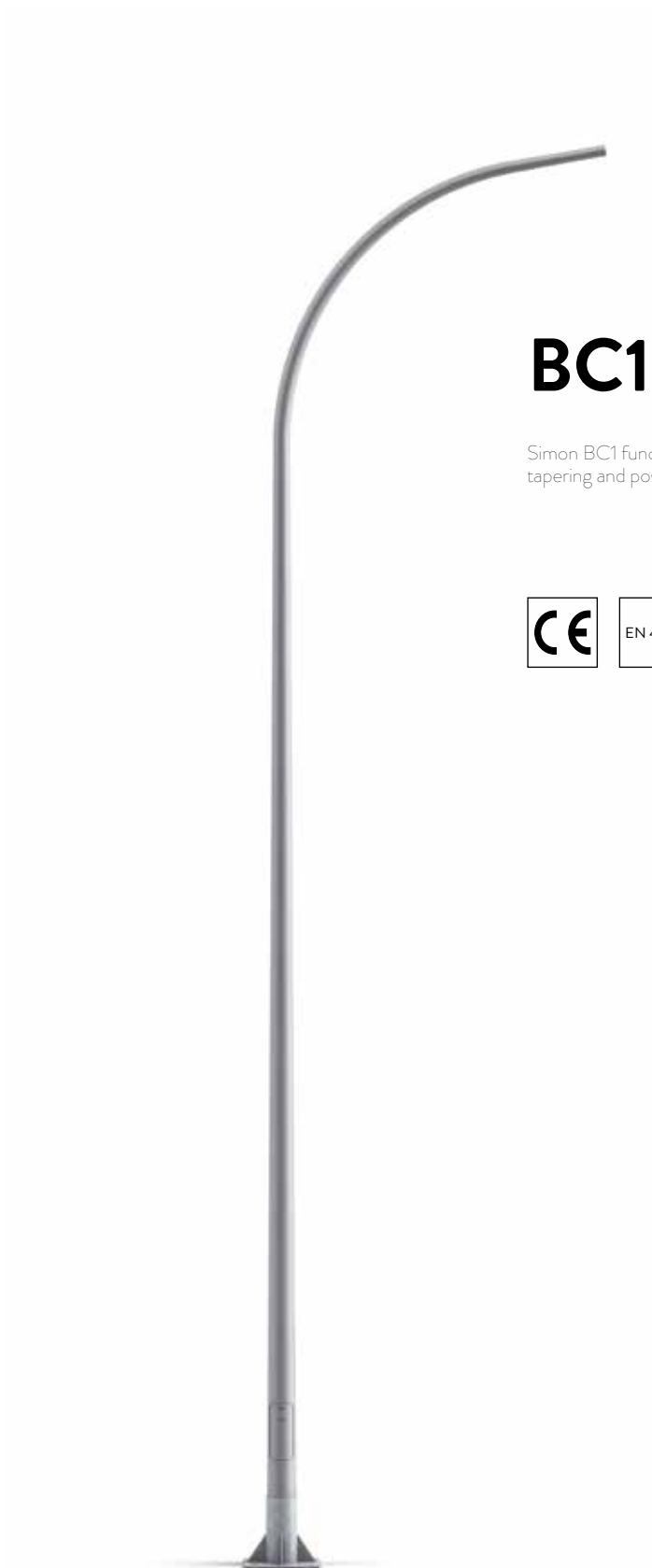
* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively

ARCO R1 WITH
ALTAIR IXFARCO R1 WITH
MERAK SXFARCO R2 WITH
ALYA

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265
Flush door replacement, 8 m curved pole height, R1 model, 60 mm post-top diameter, galvanised finish	S-551006
Flush door replacement, 10 m curved pole height, R1 model, and 11 m curved pole height, R2 and R3 model, 60 mm post-top diameter, galvanised finish	S-551156
Flush door replacement, 11 m curved pole height, R1 model, 60 mm post-top diameter, galvanised finish	S-551266
Flush door replacement, 8 m curved pole height, R2 model, 60 mm post-top diameter, galvanised finish	S-550846
Flush door replacement, 9 m curved pole height, R2 model, 60 mm post-top diameter, galvanised finish	S-550946
Flush door replacement, 10 m curved pole height, R2 and R3 model, 60 mm post-top diameter, galvanised finish	S-551056
Flush door replacement, 8 m curved pole height, R3 model, 60 mm post-top diameter, galvanised finish	S-550806
Flush door replacement, 9 m curved pole height, R3 model, 60 mm post-top diameter, galvanised finish	S-550906



BC1

Simon BC1 functional curved pole, up to 9 m high, conical tapering and post-top luminaire fastening.



Simon **BC1** functional curved pole, up to 9 m high, conical tapering and post-top luminaire fastening. Flat flange plate with reinforcing ring and gussets and shaft made of S235JR-quality sheet carbon steel. Flush trapdoor with interior reinforcement and interior sleeve. Post-top luminaire lateral fastening using cylindrical coupling, Ø60 mm x 230 mm and 10° angle. IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied. Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes. Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included. Pole with CE-certified constancy of performance. Pole meets City of Barcelona product specifications. Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF and ALYA.

FASTENING SYSTEMS

Luminaire fastening Lateral fastening through Ø60 mm x 230 mm coupling at 10° angle

Notes Anchoring bolts and template provided. Luminaires not included.

PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).
Shaft	Conical tapering
Trapdoor	Flush with reinforcement and interior sleeve
Construction	Support manufactured in a single section
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

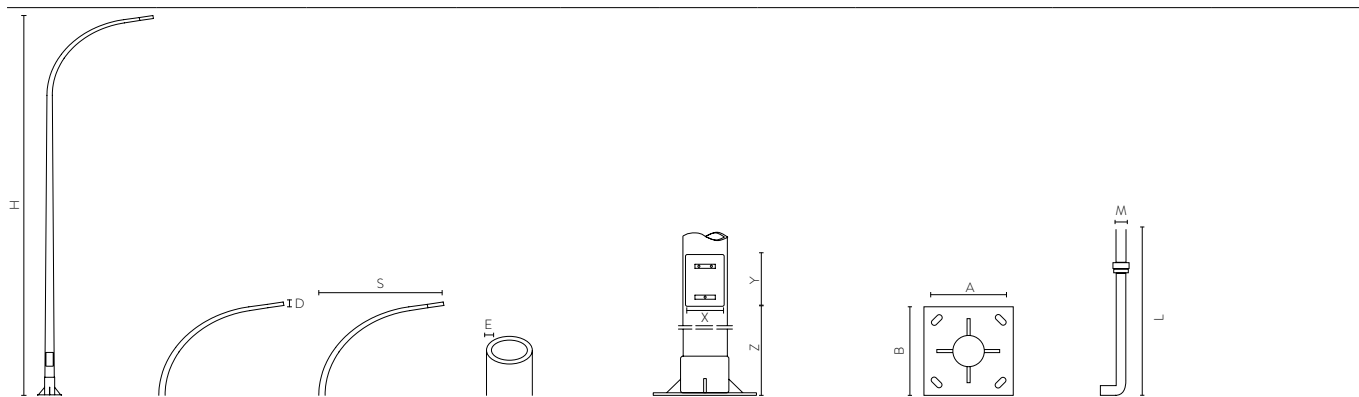
FINISHES

Shaft	Galvanised Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)
--------------	--

REGULATIONS AND CERTIFICATES

Support according to	REGULATION EN 40-5 Barcelona City Hall Conditions
-----------------------------	--

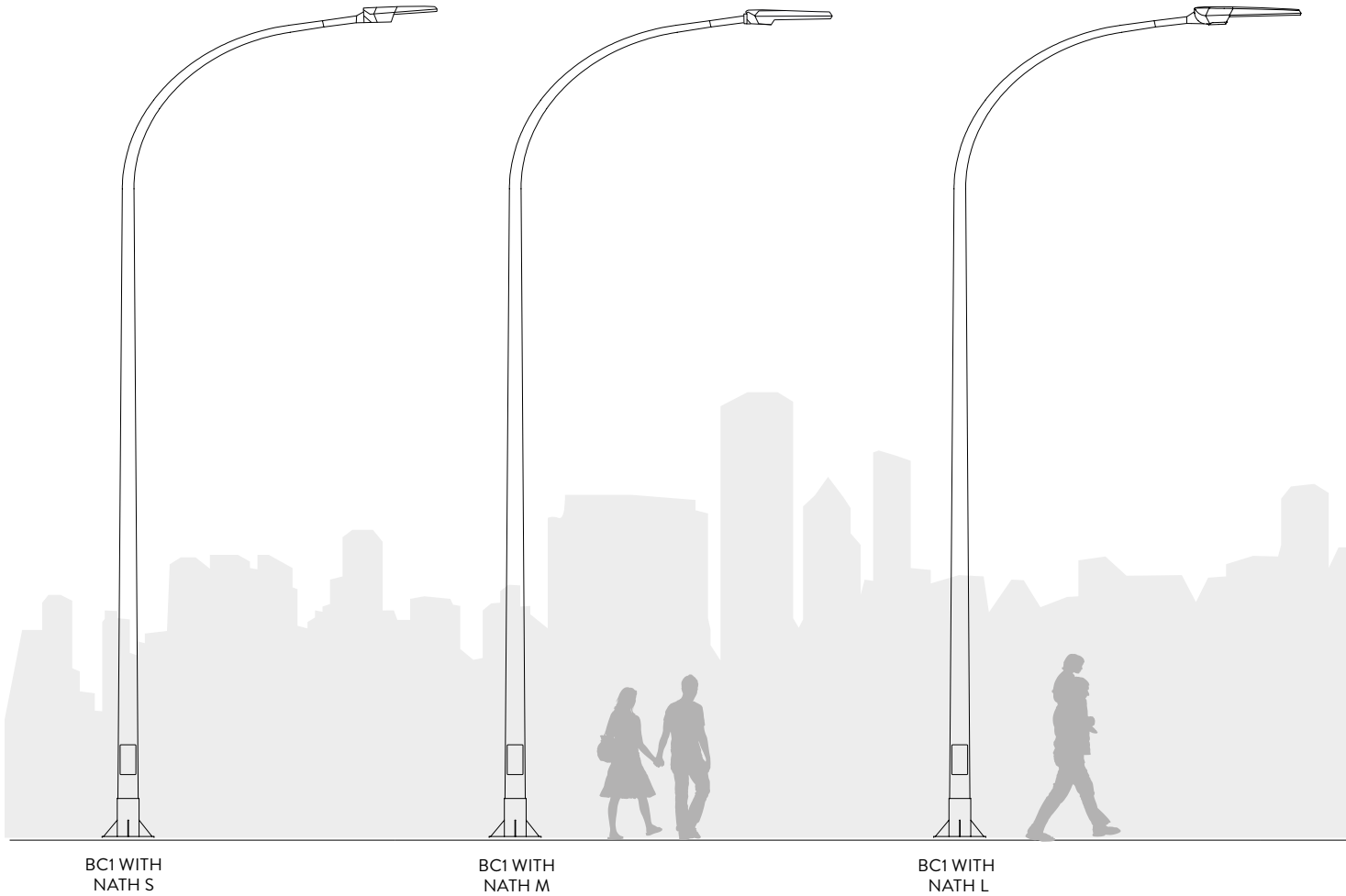
TECHNICAL INFORMATION* (Units in mm)



Height	Diameter	Overhang	Thickness	Door			Flange plate		Bolts	Code
H	∅ D	S	E	X	Y	Z	A	B	M x L	
7,500	60	1,500	3	120	300	550	300	400	M22x600	S-581575
9,000	60	1,500	3	130	300	550	300	400	M22x600	S-581509

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






BC1 WITH NATH S

BC1 WITH NATH M

BC1 WITH NATH L

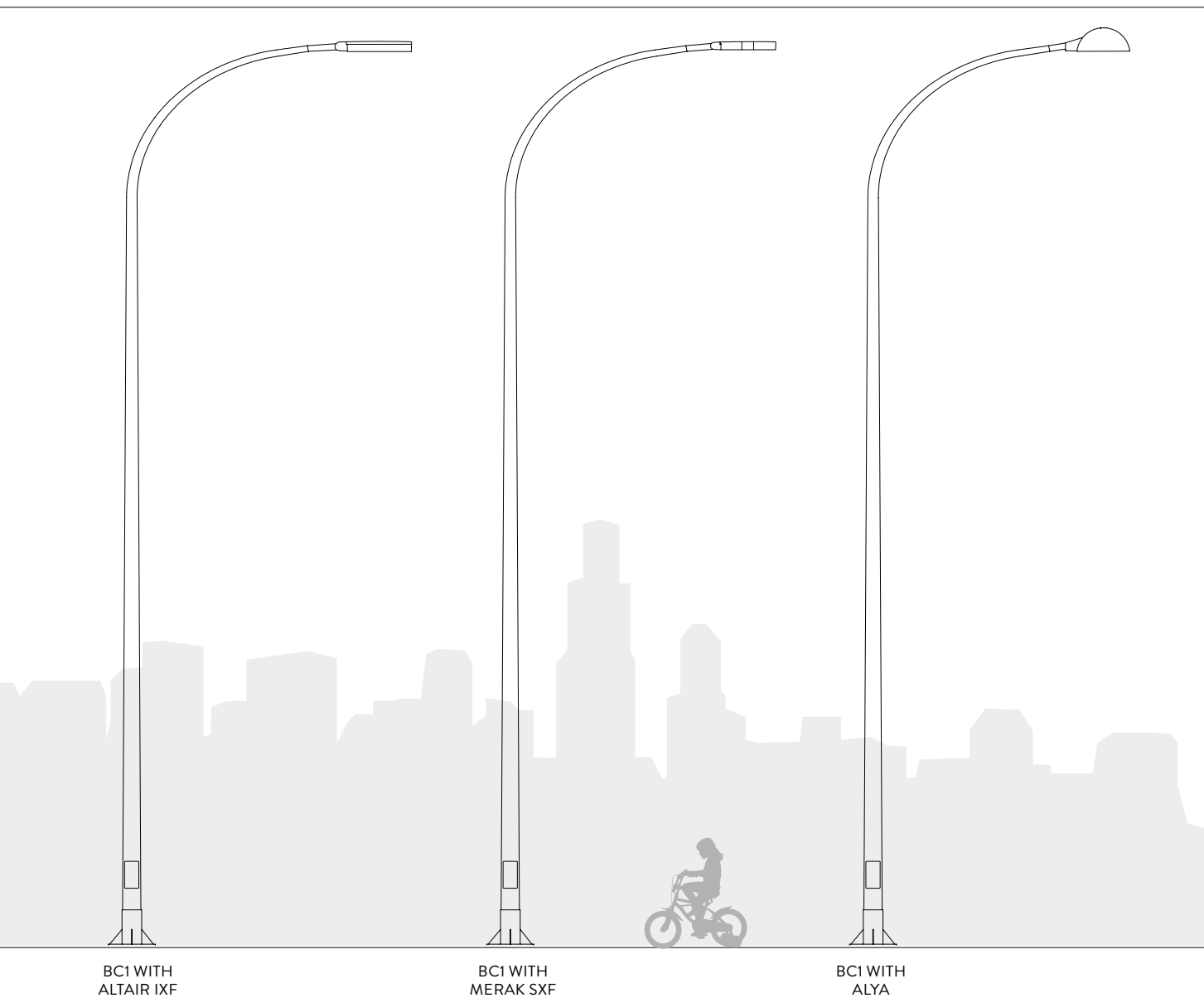
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

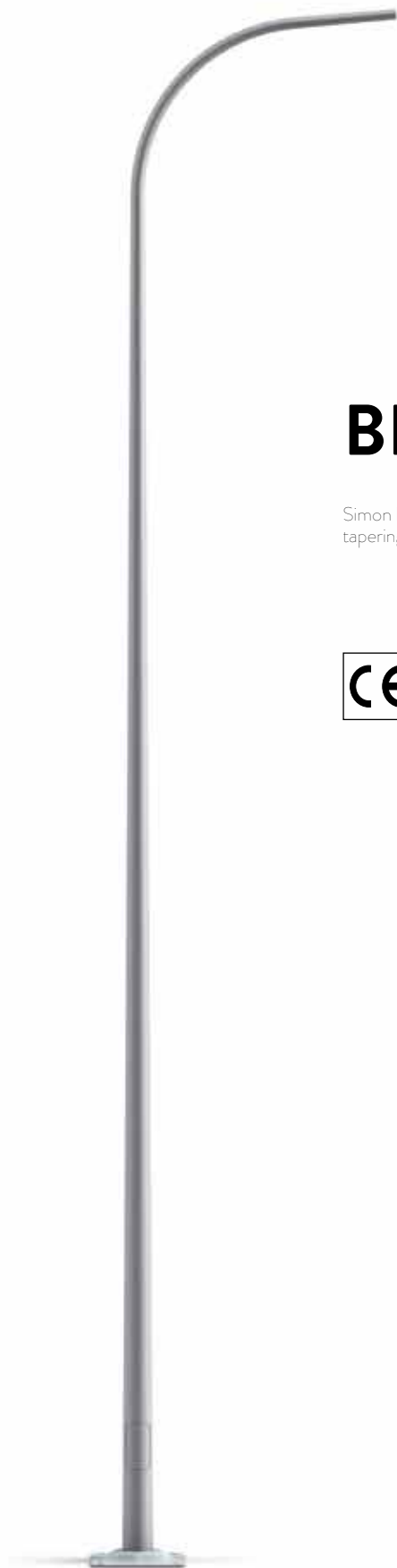
** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265
Flush door replacement, 7.5 m curved pole height, 60 mm post-top diameter, galvanised finish	See
Flush door replacement, 9 m curved pole height, 60 mm post-top diameter, galvanised finish	See



BEU

Simon BEU functional curved pole, up to 12 m high, conical tapering and post-top luminaire fastening.



Simon **BEU** functional curved pole, up to 12 m high, conical tapering and post-top luminaire fastening. Recessed flange plate and shaft made of S235JR - quality sheet carbon steel. Flush trapdoor with interior reinforcement. Post-top luminaire lateral fastening using cylindrical terminal, Ø60 mm x 100 mm and 5° angle. IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied. Hot dip galvanised finish. Allows Simon and RAL chart finishes, as well as other protective finishes. Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included. Pole with CE-certified constancy of performance. Recommended luminaires: NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF and ALYA.

FASTENING SYSTEMS

Luminaire fastening	Lateral fastening through Ø60 mm x 100 mm cylindrical terminal and 5° angle.
Notes	Anchoring bolts and template provided. Luminaires not included.

FINISHES

Shaft	Galvanised Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)
--------------	--

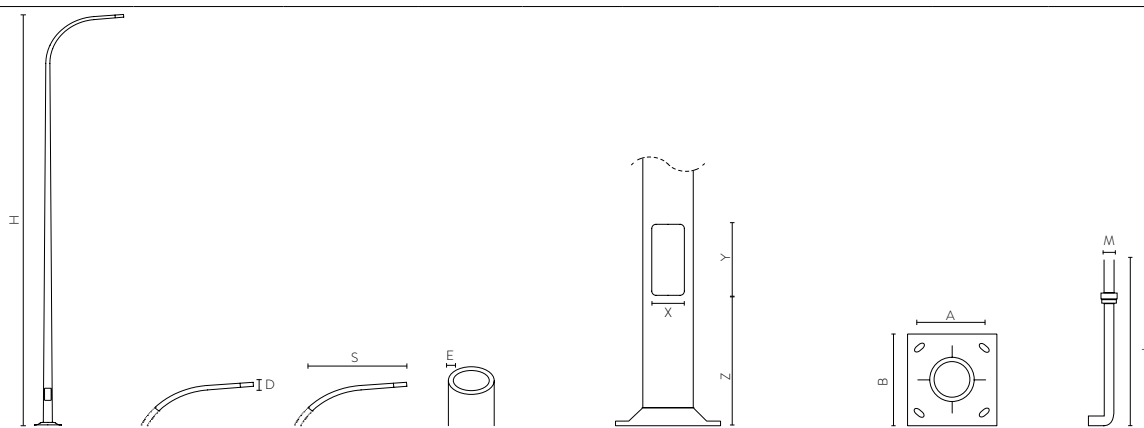
PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).
Shaft	Conical tapering
Trapdoor	Flush with interior reinforcement
Construction	Support manufactured in a single section
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, recessed

REGULATIONS AND CERTIFICATES

Support according to	REGULATION EN 40-5
-----------------------------	--------------------

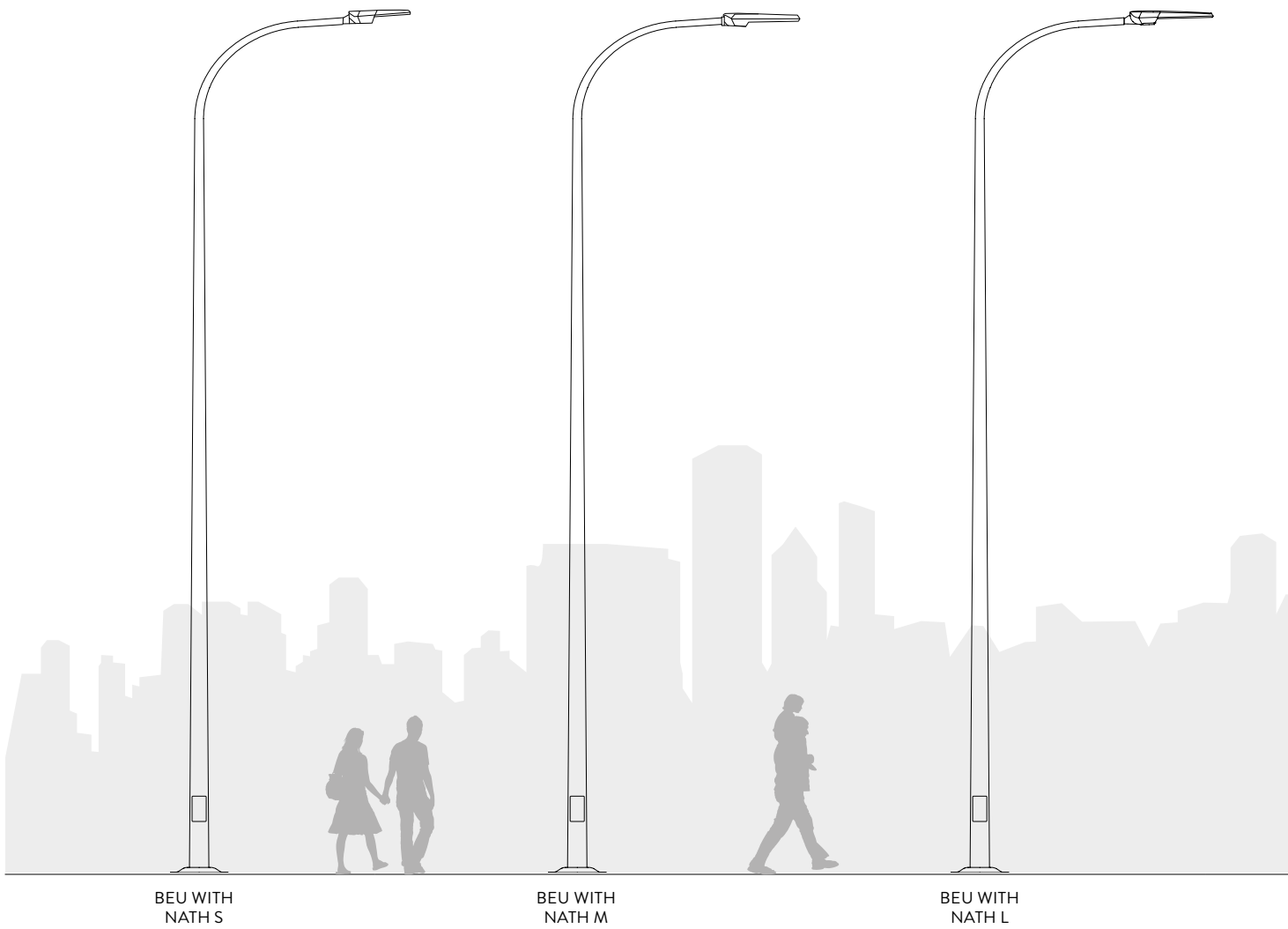
TECHNICAL INFORMATION* (Units in mm)






Height	Diameter	Overhang	Thickness	Door			Flange plate		Bolts	Code
H	∅ D	S	E	X	Y	Z	A	B	M x L	
6,000	60	1,500	3	115	300	550	285	400	M20x500	BEU06153
7,000	60	1,500	3	120	300	550	285	400	M20x500	BEU07153
8,000	60	1,500	3	125	300	550	285	400	M20x500	BEU08153
9,000	60	1,500	3	125	300	550	285	400	M22x600	BEU09153
10,000	60	1,500	3	130	300	550	285	400	M22x600	BEU10153
10,000	60	2,000	3	130	300	550	285	400	M22x600	BEU10203
12,000	60	1,500	4	130	300	550	285	400	M22x600	BEU12154
12,000	60	2,000	4	130	300	550	285	400	M22x600	BEU12204

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)



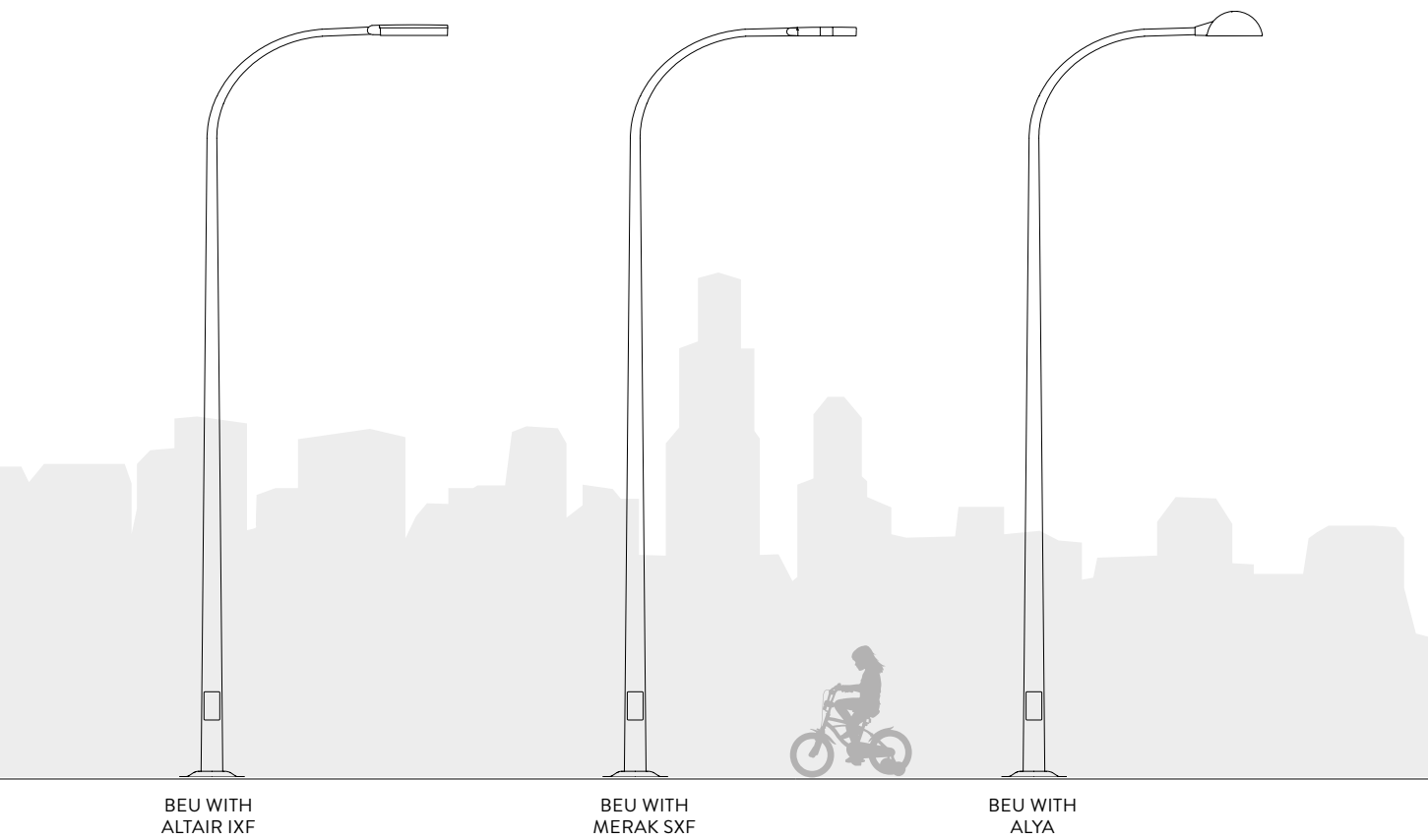
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



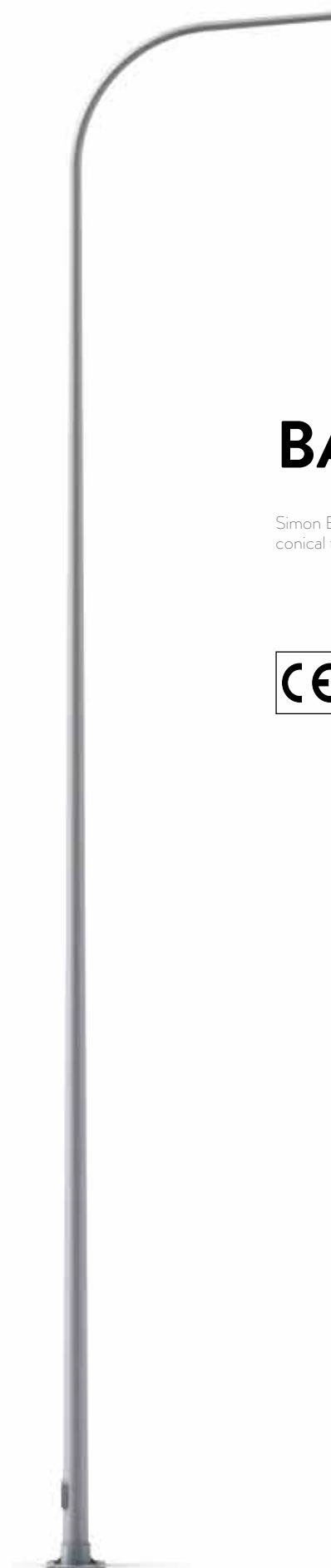
ACCESSORIES / REPLACEMENTS

Description	Order code
Flush door replacement, 6 m curved pole height, 1.5 m overhang, 60 mm post-top diameter, galvanised finish	S-550706
Flush door replacement, 7 m curved pole height, 1.5 m overhang, 60 mm post-top diameter, galvanised finish	S-550806
Flush door replacement, 8 m curved pole height, 1.5 m overhang, 60 mm post-top diameter, galvanised finish	S-550906
Flush door replacement, 9 m curved pole height, 1.5 m overhang, 60 mm post-top diameter, galvanised finish	S-551006
Flush door replacement, 10 m curved pole height, 1.5 m overhang, 60 mm post-top diameter, galvanised finish	S-551106
Flush door replacement, 10 m curved pole height, 2 m overhang, 60 mm post-top diameter, galvanised finish	S-551156
Flush door replacement, 12 m curved pole height, 1.5 m overhang, 60 mm post-top diameter, galvanised finish	see
Flush door replacement, 12 m curved pole height, 2 m overhang, 60 mm post-top diameter, galvanised finish	see

CURVED POLES WITH ARMS

BD (double arm)	BT (triple arm)	BC (quadruple arm)
 180°	 120°	 90°

The codes of curved poles with multiple arms are made by adding the suffix to the curved pole base code. Example:
BEU curved pole of 9 m , 1.5 m overhang and 4 arms
BEU09153BC



BAM

Simon BAM functional pole, up to 12 m high, square base, conical tapered shaft and post-top luminaire fastening.



Simon **BAM** functional pole, up to 12 m high, square base, conical tapered shaft and post-top luminaire fastening.

Flange plate with reinforcing ring and gussets, base and shaft made of S235JR- quality carbon steel sheet.

Trapdoor with exterior reinforcement frame.

Post-top luminaire fastening through Ø60 mm cylindrical terminal and 5° angle. Models whose reference number ends in P50 are supplied with the luminaire coupling tip reduced to 50 mm.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised and painted in forged and sand blasted dark grey. Hot dip galvanised shaft and painted in Simon RAL 9006 grey colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Recommended luminaires NATH LXF, NATH MXF, NATH SXF, ALTAIR IXF, MERAK SXF and ALYA.

FASTENING SYSTEMS

Luminaire fastening Post-top luminaire fastening through Ø60 mm cylindrical terminal and 5° angle

Notes Anchoring bolts and template provided.
Luminaires not included.

PHYSICAL FEATURES AND MATERIALS

IP IP3X. To get IP44, an internal connection box with IP44 must be used (not supplied with pole).

Shaft Carbon steel sheet

Trapdoor With reinforcing ring frame, gussets and interior reinforcement

Construction Support manufactured in a single section

Shaft Carbon steel sheet, S235JR quality

Flange plate Recessed steel sheet, S235JR quality

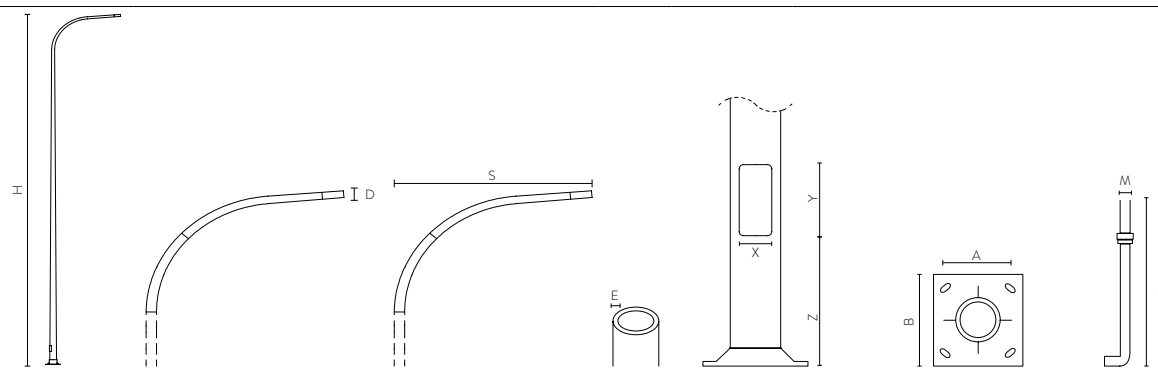
FINISHES

Shaft Galvanised
Simon Colours (Standard Paint / Seafront Paint)
RAL chart colours (Standard Paint / Seafront Paint)

REGULATIONS AND CERTIFICATES

Support according to REGULATION EN 40-5

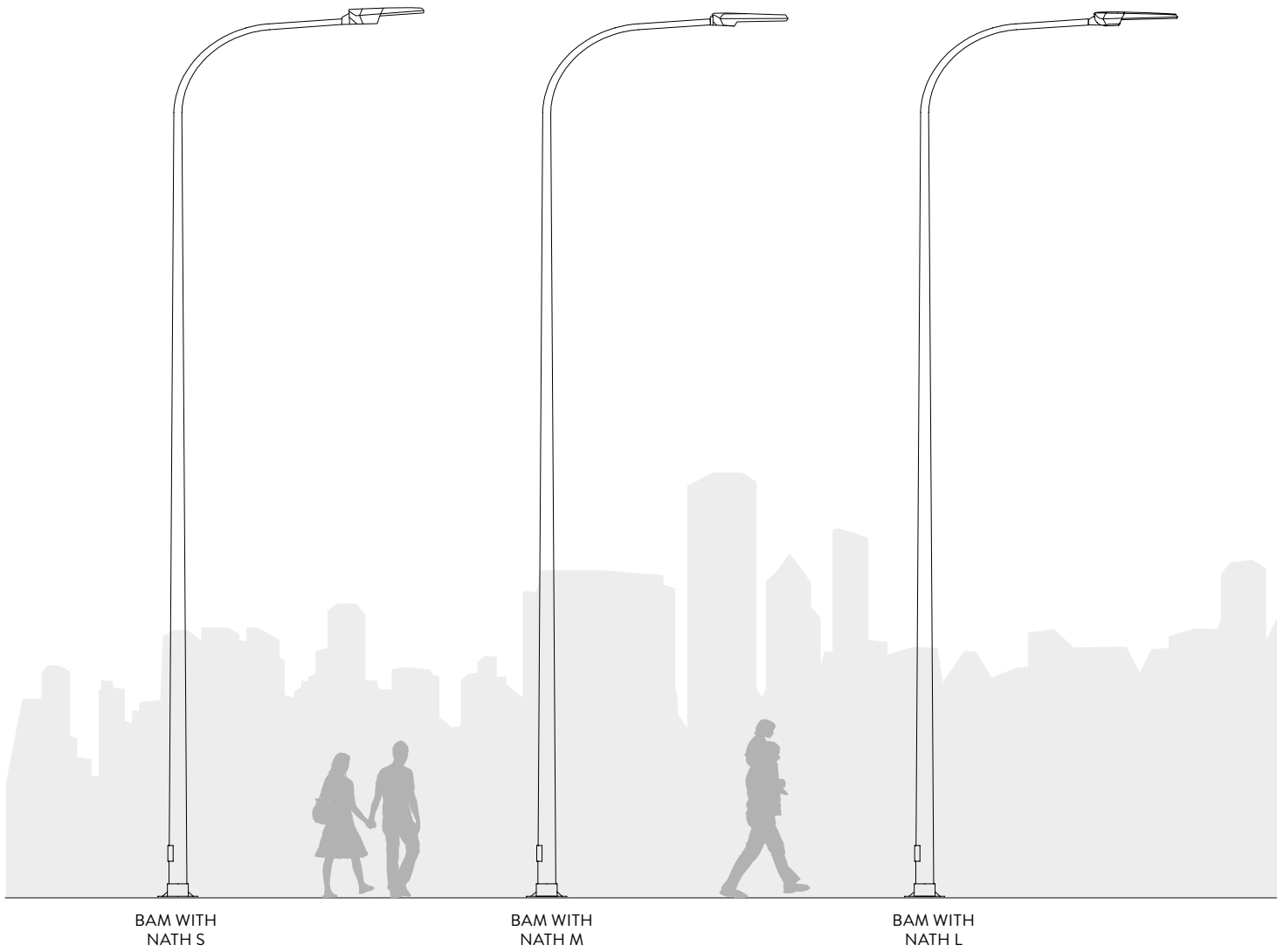
TECHNICAL INFORMATION* (Units in mm)



Height	Diameter	Overhang	Thickness	Door			Flange plate		Bolts	Code
H	∅ D	S	E	X	Y	Z	A	B	M x L	
6,000	60	1,000	3	102	162	410	285	400	M20x500	BAM06103
6,000	60	1,500	3	102	162	410	285	400	M20x500	BAM06153
7,000	60	1,000	3	140	192	410	285	400	M20x500	BAM07103
7,000	50	1,500	3	140	192	410	285	400	M20x500	BAM07153P50
7,000	60	1,500	3	140	192	410	285	400	M20x500	BAM07153
8,000	60	1,000	3	140	192	410	285	400	M20x500	BAM08103
8,000	60	1,500	3	140	192	410	285	400	M20x500	BAM08153
9,000	50	1,500	3	140	192	440	285	400	M22x600	BAM09153P50
9,000	60	1,500	3	140	192	440	285	400	M22x600	BAM09153
10,000	60	1,500	3	140	192	440	285	400	M22x600	BAM10153
10,000	60	2,000	3	140	192	440	285	400	M22x600	BAM10203
12,000	60	1,500	3	140	192	440	285	400	M22x600	BAM12154
12,000	60	2,000	3	140	192	440	285	400	M22x600	BAM12204

* Check other measurements or configurations

RECOMMENDED LUMINAIRES (NOT INCLUDED)






BAM WITH NATH S

BAM WITH NATH M

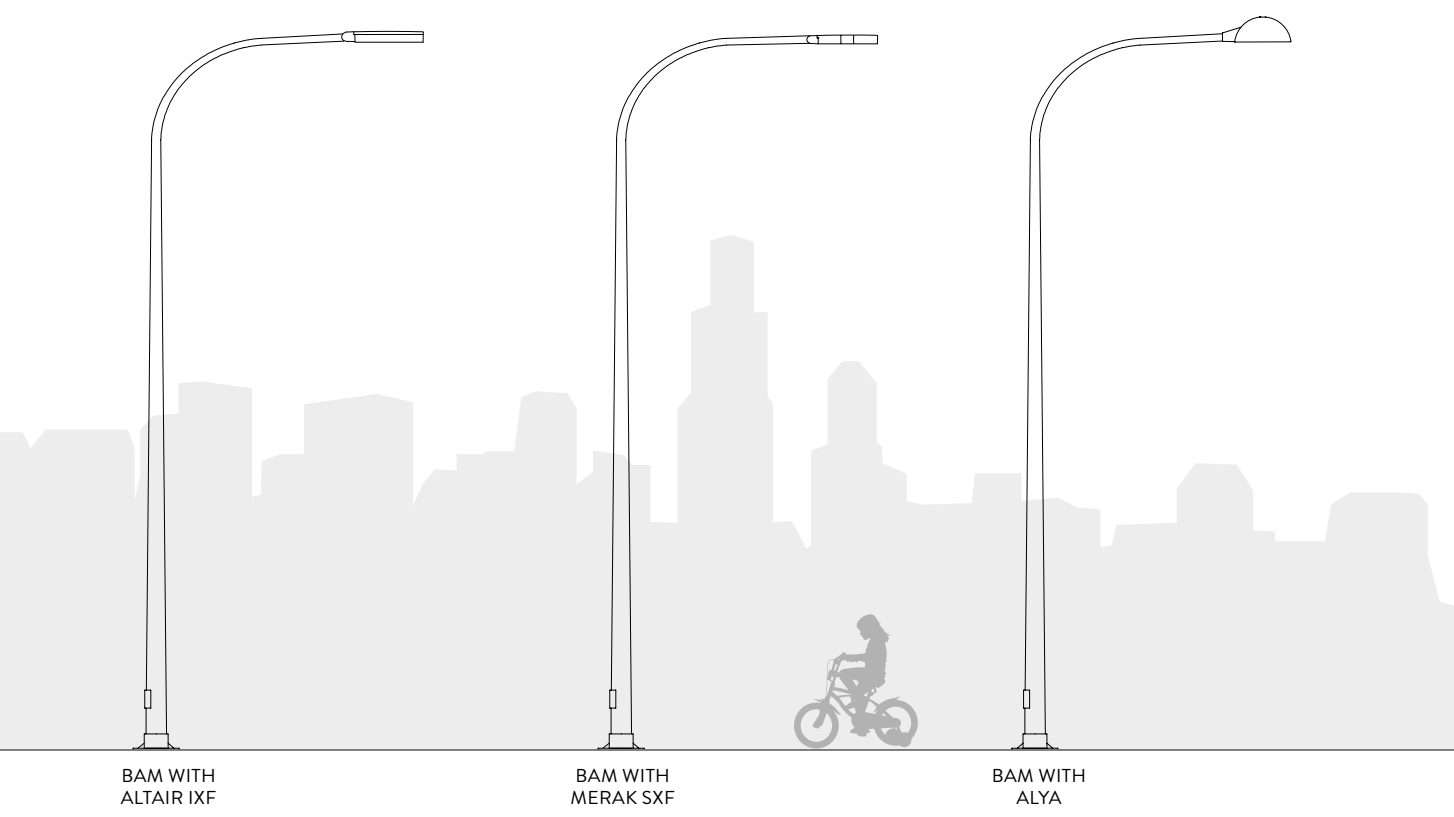
BAM WITH NATH L

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard finish: hot dip galvanised**	-	✓		
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively



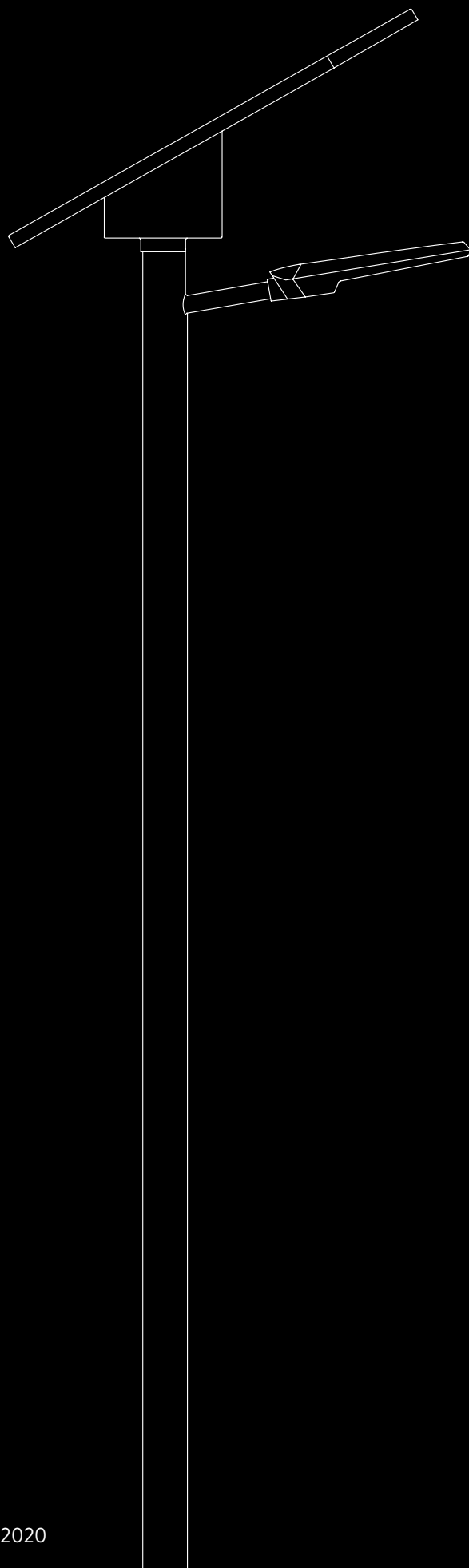
ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265
Flush door replacement, 4 to 7 m pole height, galvanised finish	50-70988
Flush door replacement, 8 to 12 m pole height, galvanised finish	50-71269

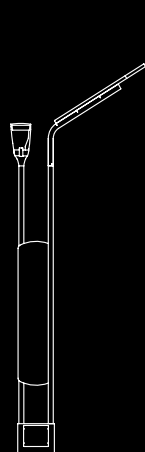
CURVED POLES WITH ARMS

BD (double arm)	BT (triple arm)	BC (quadruple arm)

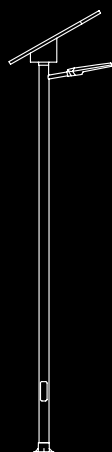
The codes of curved poles with multiple arms are made by adding the suffix to the curved pole base code. Example:
 BAM curved pole of 9 m , 1.5 m overhang and 4 arms
 BAM09153BC



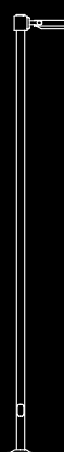
CUSTOM SOLUTIONS



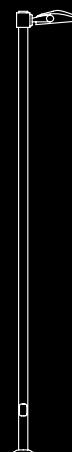
**CEDRUS
SOLAR**
P.470



**MAGNOLIA
SOLAR**
P.474



**TRAFIC
DEMON**
P.482



**TRAFIC
MILOS**
P.488

Our specific solutions are designed to fulfil a particular function, allowing vehicles and people to move around in a safe, sustainable and functional way. We offer solar solutions equipped with solar panels and solutions for pedestrian crossings with advanced technical features.



SOLAR:

CEDRUS

MAGNOLIA

Simon's solar solutions are equipped with solar panels and controllers that fulfil specific sustainability, safety and functionality purposes. Two specific models for different areas of application:
Cedrus and Magnolia



Main roads
MAGNOLIA / CEDRUS



Parking areas
MAGNOLIA / CEDRUS



Green trails
MAGNOLIA / CEDRUS



Avenues
MAGNOLIA / CEDRUS



Pedestrian streets
MAGNOLIA / CEDRUS



Parks / Gardens
MAGNOLIA / CEDRUS



Squares
MAGNOLIA / CEDRUS



Urban cycle paths
MAGNOLIA



Roundabouts / Intersections
MAGNOLIA / CEDRUS



SOLAR

FEATURES

SOLAR PANEL

CEDRUS: Monocrystalline solar panel.

60° angle to horizontal axis.

Allows the panel to be directed 360° on vertical axis.

25-year service life with 20% decrease in power.

Equipped with sealed junction box and IP66 connectors.

High quality and high transmission tempered glass top cover to provide high impact resistance and high hardness.

MAGNOLIA: Monocrystalline solar panel.

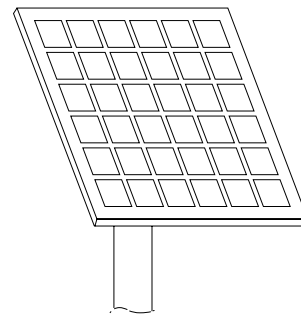
30° or 60° angle to horizontal axis.

Allows the panel to be directed 360° on vertical axis.

25-year service life with 20% decrease in power.

Equipped with sealed junction box and IP66 connectors.

High quality and high transmission tempered glass top cover to provide high impact resistance and high hardness.



SOLAR CONTROLLER

Battery status indicator with low charge alarm.

Internal temperature sensor.

Charges batteries in three phases: initial, absorption and float. This type of charging optimises battery life.

Protected against surges, short circuit and reverse polarity of solar panels and/or battery.

BATTERY

Gel battery

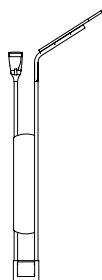
1,800 cycle service life with 30% discharges.

MAINTENANCE

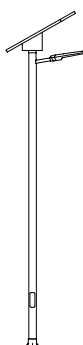
The CEDRUS and MAGNOLIA range are practically maintenance free due to the high quality of the components used. Performing the following actions is recommended at the end of the operational life of the components:

- Battery replacement: 5 years
- Solar panel replacement: 25 years

SOLAR COLLECTION



CEDRUS



MAGNOLIA

PROJECT IMPLEMENTATION

A lighting project with stand-alone solar lighting points requires two analyses:

- **Lighting Calculation** to ensure the minimum lighting levels required for the road type are met.
- **Runtime Calculation** to analyse the installation's energy viability and adequately gauge the stand-alone solar point's critical components according to lighting requirements, in order to achieve the proposed runtime.

For the SIMON Projects Department to make the calculations, it is essential to have a blueprint with information on the area that needs to be lit, the type of lighting required, etc., as with any other lighting project. Furthermore, knowing the project's exact location is necessary to obtain historical data on average solar radiation and other weather information required to make the Runtime Calculation.

CEDRUS AREAS OF APPLICATION

Due to the intrinsic features of stand-alone solar lighting points, the following areas of application are recommended:

- Environmentally friendly installations with lighting points that use solar energy to generate light at night:
 - Avenues, streets, squares and intersections
 - Parks and large green areas
- Installations that are far away from electricity grid networks, where a connected solution is not financially viable and stand-alone lighting solutions are preferable:
 - Transport links
 - Suburban bike lanes
 - Remote bus stops or train stations
 - Remote service areas

Due to the intrinsic features of this technology, its use is not recommended in areas where, due to their location and/or adjacent physical elements, shadows are cast on the solar panel, such as urban areas with buildings that are taller than the panel, areas near to trees that may cover the panel or the north face of mountains (south face in the southern hemisphere).

CLIENT DOCUMENTATION

SIMON's Projects Department gives the client the following documentation:

- **Lighting calculation** with expected levels.
- **Solar report** with an analysis of the installation's expected runtime.

The Solar Report includes the following information:

- Average solar radiation during the twelve months of the year for the installation's geographical location, which provides a forecast of the energy the solar panel will be able to absorb.
- Technical parameters of the stand-alone solar point configured specifically for the project.
- Functioning analysis of the solar point and energy balances for the months with the most and least average solar radiation.
- Energy saving scheme expected for the luminaire.
- Specific technical features of the solar point components.

MAGNOLIA AREAS OF APPLICATION

Due to the intrinsic features of stand-alone solar lighting points, the following areas of application are recommended:

- Environmentally friendly installations with lighting points that use solar energy to generate light at night:
 - Green trails
 - Avenues, streets, squares and intersections
 - Parks and large green areas
- Installations that are far away from electricity grid networks, where a connected solution is not financially viable and stand-alone lighting solutions are preferable:
 - Transport links
 - Suburban bike lanes
 - Remote bus stops or train stations
 - Remote service areas

Due to the intrinsic features of this technology, its use is not recommended in areas where, due to their location and/or adjacent physical elements, shadows are cast on the solar panel, such as urban areas with buildings that are taller than the panel, areas near to trees that may cover the panel or the north face of mountains (south face in the southern hemisphere).



CEDRUS SOLAR

Decorative support for Simon CEDRUS stand-alone solar point, 4 m high, with lower battery holder, two cylindrical shafts (one for upper luminaire fastening through coupling and another for upper solar panel fastening through support) and decorative panel between both shafts.



Decorative support for Simon **CEDRUS** stand-alone solar point, 4 m high, with lower battery holder, two cylindrical shafts (one for upper luminaire fastening through coupling and another for upper solar panel fastening through support) and decorative panel between both shafts. Flat flange plate, battery holder, shafts and solar panel support made of S235JR-quality carbon steel sheet. Laminated layered resin decorative panel. Battery/batteries and solar controller located in holder with trapdoor access. Flush trapdoor on lower battery holder closed with four security screws. Post-top luminaire fastening through Ø60 mm x 100 mm coupling on one shaft. Post-top solar panel fastening through support with four anchoring points, 30° angle, on the other shaft. IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied. Hot dip galvanised finish and painted in Simon GYDECO colour. Allows Simon and RAL chart finishes, as well as other protective finishes. Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included. Recommended luminaire: HYDRA

DIMENSIONS AND FASTENING SYSTEMS

Luminaire fastening	Post top through Ø60 mm x 100 mm coupling
Notes	Anchoring bolts and template provided Luminaires not included

PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To get IP44, an internal connection box with IP44 is needed (not supplied with pole).
Shaft	Cylindrical
Trapdoor	Flush
Construction	Double shaft for solar panel and luminaire made of steel structural tube 4 m high. Simulated wood high-pressure-laminated panel. Battery holder and dimmer in the base.
Coupling	Carbon steel sheet, S235JR quality
Battery holder and solar panel support	Carbon steel sheet, S235JR quality
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality

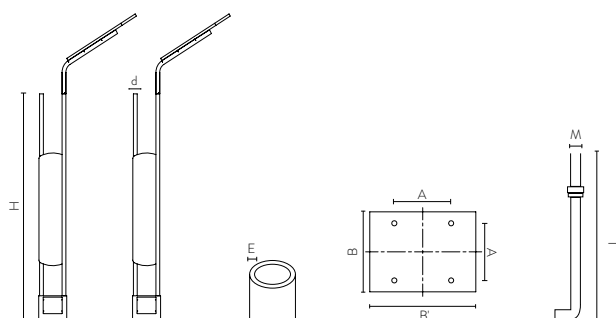
FINISHES

Coupling	Galvanised and painted in GYDECO colour (Standard Paint)
Battery holder and solar panel support	Galvanised and painted in GYDECO colour (Standard Paint)
Shaft	Galvanised and painted in GYDECO colour (Standard Paint) Simon Colours (Standard Paint / Seafrost Paint) RAL chart colours (Standard Paint / Seafrost Paint)

REGULATIONS AND CERTIFICATES

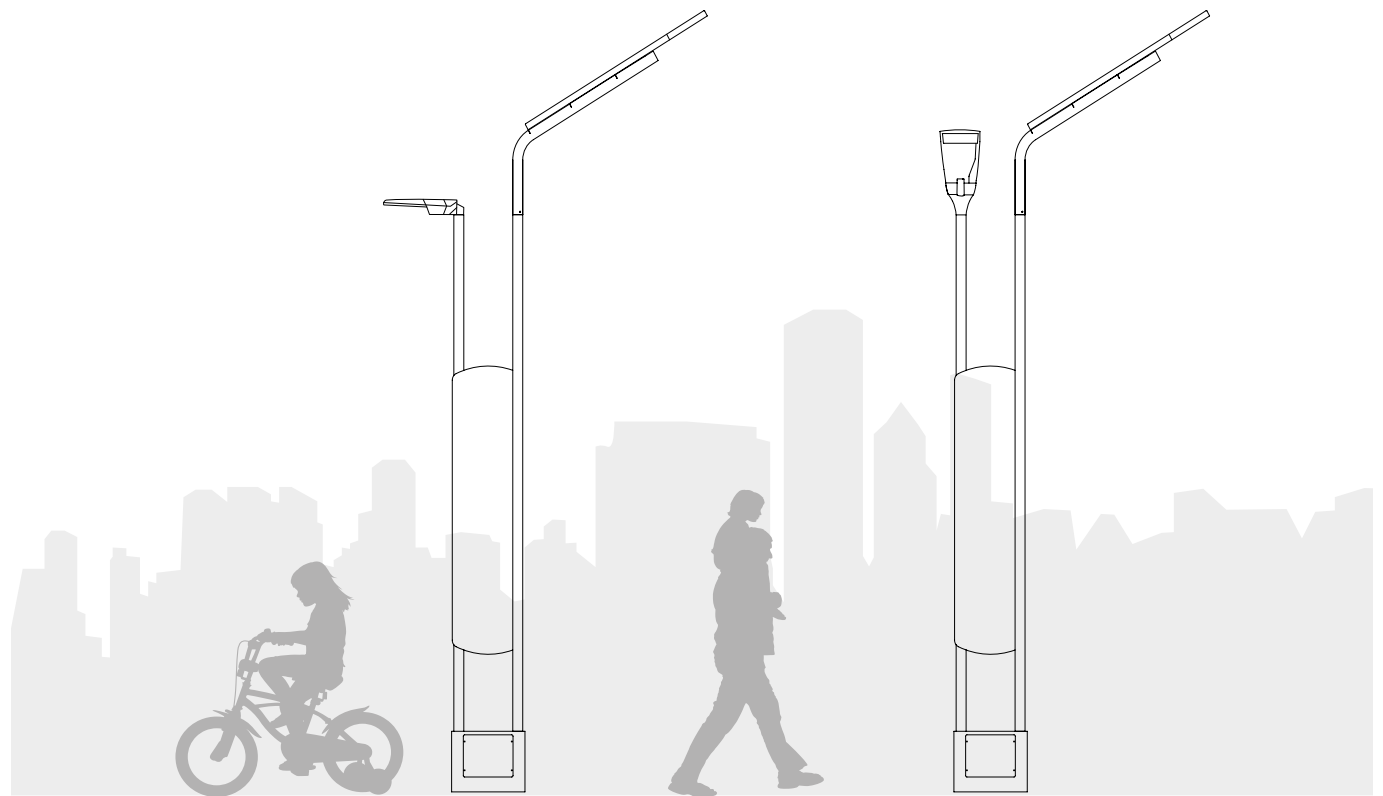
Support*	not applicable.
Solar panel according to	EN 61730 / EN IEC 63000
Solar controller according to	EN 61000-6-3 / EN 61000-6-2 / EN 61000-6-1 / EN 55014-1 / EN 55014-2 / EN 62109-1 / EN IEC 63000
Battery according to	EN 55014-1 / EN 55014-2 / EN 61000-3-3 / EN 60335-1

TECHNICAL INFORMATION** (Units in mm)



Model	Height	Diameter	Thickness	Flange plate			Bolts	Solar Panel			Batteries		Code
				A	B	B'		M x L	(Wp****)	Operating voltage (V _{DC})	Angle	No. of batt.	
Extended Battery Life Factor	4,000	76	3	300	420	560	M24 x 800	200	24	30°	2	2x90	5-630910-013
Average Battery Life Factor	4,000	76	3	300	420	560	M24 x 800	175	12	30°	1	90	5-630920-013




* The support structural calculations are made according to regulation EN 40-5 criteria. ** Check other measurements or configurations
 **** Values can vary due to the constant progress that the technology undergoes.



CEDRUS SOLAR WITH NATH SXF

CEDRUS SOLAR WITH HYDRA

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard Paint Finish: hot dip galvanised** and painted Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively

ACCESSORIES / REPLACEMENTS

Description	Order code
Gel battery, 90 Ah, 12V _{DC}	50-73447
Solar controller with assembly plate	50-73362
Monocrystalline solar panel for Extended Battery Life solar points	50-73449
Monocrystalline solar panel for Average Battery Life solar points	50-73601



MAGNOLIA SOLAR

Simon MAGNOIA stand-alone solar point, up to 8 m high, with cylindrical shaft, lateral luminaire fastening through coupling, battery holder and solar panel support.



Simon **MAGNOIA** stand-alone solar point, up to 8 m high, with cylindrical shaft, lateral luminaire fastening through coupling, battery holder and solar panel support.

Flat flange plate with reinforcing ring and gussets, shaft, coupling, battery holder and solar panel support made of S235JR-quality carbon steel sheet. Battery/batteries located in holder and solar controller located inside shaft with trapdoor access.

Flush trapdoor with interior reinforcement.

Lateral luminaire fastening through Ø60 mm x 400 mm coupling at 5° angle. Upper solar panel fastening through support with four anchoring points and discrete angles between 30° and 60°. Allows the panel to be directed 360° on vertical axis.

IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised finish and painted in Simon GY9007 colour. Allows Simon and RAL chart finishes, as well as other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base. Luminaires not included.

Pole with CE-certified constancy of performance.

Monocrystalline solar panel with power and operating voltage according to model, equipped with high-performance bypass diodes to minimise power drops caused by shadows, waterproof junction box and fast-connect IP66 connectors.

Gel battery/batteries with storage capacity according to model, with operating voltage of 12V DC, and optimal service life length in float mode and in cycles. Connections with flat copper terminals with M8 bolts to optimise contact and avoid accidental battery discharges.

Solar controller for energy flow management, with internal temperature sensor, battery charging process divided into three phases, with protection against surges, short circuits and reverse polarity of solar panel and/or battery and charging output disconnection due to low voltage.

Specific low loss wiring, with 6 mm² section, to connect the panel and battery/batteries to solar controller.

Recommended luminaire: NATH SXF.

DIMENSIONS AND FASTENING SYSTEMS

Luminaire fastening Lateral fastening through Ø60 mm x 400 mm coupling at 10° angle

Notes Anchoring bolts and template provided
Luminaires not included

PHYSICAL FEATURES AND MATERIALS

IP	IP3X. To get IP44, an internal connection box with IP44 is needed (not supplied with pole).
Shaft	Cylindrical
Trapdoor	Flush
Construction	Support manufactured in a single section with upper fastening for battery holder and solar panel support
Coupling	Carbon steel sheet, S235JR quality
Battery holder and solar panel support	Carbon steel sheet, S235JR quality
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Flat steel sheet, S235JR quality, with reinforcing ring and gussets

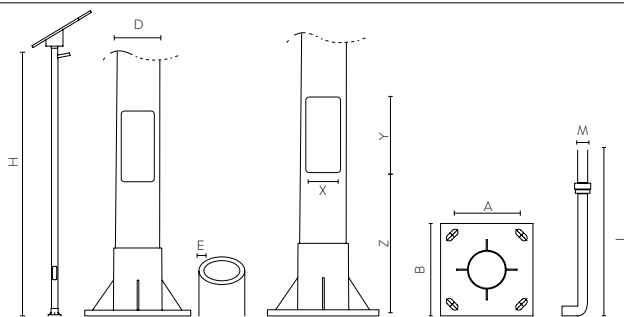
FINISHES

Coupling	Galvanised and painted in GY9007 colour (Standard Paint)
Battery holder and solar panel support	Galvanised and painted in GY9007 colour (Standard Paint)
Shaft	Galvanised and painted in GY9007 colour (Standard Paint)
Solar controller according to	Simon Colours (Standard Paint / Seafrost Paint) RAL chart colours (Standard Paint / Seafrost Paint)

REGULATIONS AND CERTIFICATES

Support*	not applicable
Solar panel according to	EN 61730 / EN IEC 63000 EN 61000-6-3 / EN 61000-6-2 / EN 61000-6-1 / EN 55014-1 / EN 55014-1 / EN 55014-2 / EN 62109-1 / EN IEC 63000
Battery according to	EN 55014-1 / EN 55014-2 / EN 61000-3-3 / EN 60335-1

TECHNICAL INFORMATION** (Units in mm)



Model	Height	Diameter	Thickness	Door			Flange plate		Bolts	Solar Panel			Batteries		Code
				X	Y	Z	A	B		(Wp***)	Operating voltage (V _{DC})	Angle	No. of batt.	Capacity (Ah)	
Extended Battery Life Factor	4,000	152	3	100	300	3,400	300	400	M24 x 800	200	24	60°	2	2x90	5-660144-016
	5,000	152	3	100	300	4,400	300	400	M24 x 800	200	24	60°	2	2x90	5-660145-016
	6,000	152	3	100	300	5,400	300	400	M24 x 800	200	24	60°	2	2x90	5-660146-016
	7,000	152	3	100	300	6,400	300	400	M24 x 800	200	24	60°	2	2x90	5-660147-016
	8,000	152	4	100	300	7,400	300	400	M24 x 800	200	24	60°	2	2x90	5-660148-016
Average Battery Life Factor	4,000	152	3	100	300	3,400	300	400	M24 x 800	175	12	60°	1	90	5-660154-016
	5,000	152	3	100	300	4,400	300	400	M24 x 800	175	12	60°	1	90	5-660155-016
	6,000	152	3	100	300	5,400	300	400	M24 x 800	175	12	60°	1	90	5-660156-016

* The support structural calculations are made according to regulation EN 40-5 criteria ** Check other measurements or configurations
*** Values can vary due to the constant progress that the technology undergoes.



MAGNOLIA SOLAR
WITH NATH S

SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*	Acid-less protection	Stick-less protection	Draw-less protection	
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265
Gel battery, 90 Ah, 12V _{DC}	50-73447
Solar controller with assembly plate	50-73362
Monocrystalline solar panel for Extended Battery Life solar points	50-73449
Monocrystalline solar panel for Average Battery Life solar points	50-73601



TRAFIC:

DEMON MILOS

ISTANIUM[®]

Simon's TRAFIC custom lighting solutions illuminate pedestrian crossings without compromising the appearance of luminaires. Equipped with advanced technical features to promote the safety of vehicles and pedestrians.



Avenues



Commercial areas



Zebra crossings



TRAFIC

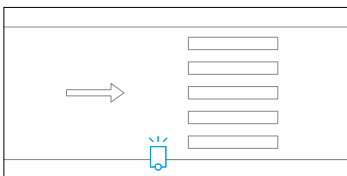
FEATURES

DESCRIPTION

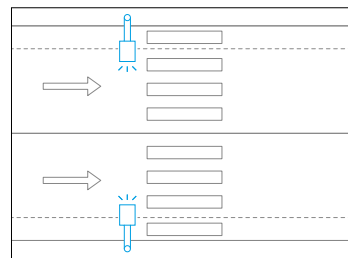
Adequately illuminate pedestrians with new TRF and TRI symmetrical optics that prevent them from remaining in semi-darkness.
 No glare for the driver since the light is focused on the pedestrian.
 Illuminates both the road and the pavement access points.
 Clearly identifies pedestrian crossings by creating greater contrast, thanks to its different warm and neutral colour temperatures.
 Ensures proper lighting for the pedestrian and access points in areas where pedestrians, bicycles and traffic converge.

ROAD TYPES

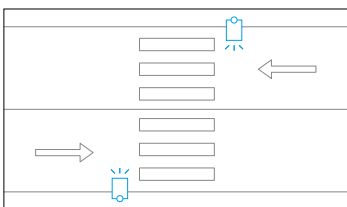
One-lane street, 3.5 m wide, one-way traffic:



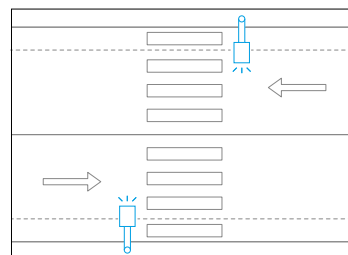
Two-lane street, 3.5 m wide, plus two parking lanes, one-way traffic, total width 11 m:



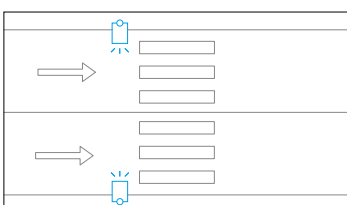
Two-lane street, 3.5 m wide, two-way traffic, total width 7 m:



Two-lane street, 3.5 m wide, plus two parking lanes, two-way traffic, total width 11 m:



Two-lane street, 3.5 m wide, one-way traffic, total width 7 m:



TRAFIC DEMON

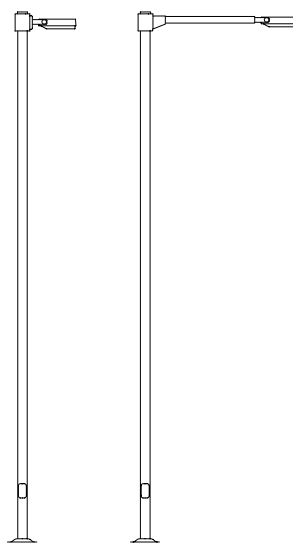
Configure your **TRAFIC** lighting point with the Simon **Demon** Istanium LED spotlight luminaire.



TRFPED finish
Trafic Peatonal



TRFSCL finish
Trafic Escolar



Tangential

1150 mm arm

TRAFIC MILOS

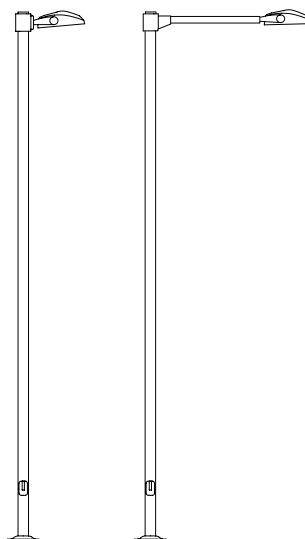
Configure your **TRAFIC** lighting point with the Simon **Milos M** Istanium LED spotlight luminaire.



TRFPED finish
Trafic Peatonal



TRFSCL finish
Trafic Escolar



Tangential

1150 mm arm



TRAFIC DEMON

ISTANIUM^{LED}®

Simon TRAFIC DEMON LED lighting point, specifically for lighting pedestrian crossings, 5 m high, with cylindrical shaft, and lateral fastening for DEMON LED spotlight through tangential clamp or clamp with 1.150 m long arm.



Support:



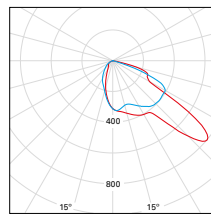
COLOUR TEMP.: NDL 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*

COLOUR RENDERING INDEX: >70

UPWARD LIGHT OUTPUT RATIO (INST. ULOR): <1% (E1 zones, 0°-5° spotlight)

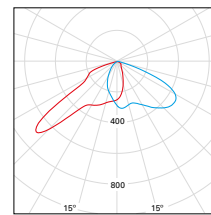
LED DURATION (L90 B10 AT TEMP=25 °C Y TEMP=95 °C): 100,000 h

TRF OPTICS



cd/klm n = 100%

TRI OPTICS



cd/klm n = 100%

— C0 - C180 — C90 - C270

* Upon request

Simon **TRAFIC DEMON LED** lighting point, specifically for lighting pedestrian crossings, 5 m high, with cylindrical shaft, and lateral fastening for DEMON LED spotlight through tangential clamp or clamp with 1.150 m long arm.

Supported by a recessed flange plate, shaft and arms made of S235JR-quality carbon steel sheet. Clamps made of die-cast aluminium. Flush trapdoor with interior reinforcement.

Lateral spotlight fastening using a clamp, with bracket anchoring using a screw, or lateral spotlight fastening using a clamp with arm, with bracket anchoring plate using screw(s). IP3X protection rating. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised and painted finish. TRAFIC PEATONAL finish: support painted in Simon RD3000 colour and clamp / arm painted in Simon WH9003 colour. TRAFIC ESCOLAR finish: support painted in Simon BL5015 colour and cable tie/arm painted in Simon WH9003 colour. Allows other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base.

Pole with CE-certified constancy of performance.

Specific Simon DEMON LED spotlight, size S, made of die-cast aluminium.

Flat cover. Internal refrigeration system through fins. Access to gear and maintenance from the front with four-screw opening.

Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. IP66 protection rating for full spotlight and IK08 impact resistance rating, or IK10 with protective grille accessory.

Possibility of mounting two double asymmetrical multi-array optics, specifically for pedestrian crossing lighting, to direct light flux by keeping the longitudinal axis of the spotlight perpendicular to the road.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1% with an angle of 0° to ± 5°.

With Class I and Class II electronic control gear with 230 VAC/50 Hz supply voltage. Possibility of including additional protection for surges of 10 kV/10 kA. Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input, according to luminaire model. Optional custom programming and maintenance of constant light output (CLO).

TRAFIC PEATONAL finish: body and bracket painted in Simon RD3000 colour and bracket trim painted in Simon WH9003 colour. TRAFIC ESCOLAR finish: body and bracket painted in Simon BL5015 colour and bracket trim painted in Simon WH9003 colour. Dimensions 260x415x115 mm.

LUMINAIRE

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08 / IK10 (with protective grille)
Body	Die-cast aluminium
Closure system	With stainless steel screws
Fastening system	Galvanised steel sheet
Diffuser	Flat transparent shatter-proof tempered glass

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C		
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol MOV Movement detector Luminaires supplied by electrical grid		
Supply voltage	220-240 V _{AC}		
Frequency	50 / 60 Hz		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)		
Power factor (cos)	≥0.95		
Luminaire electrical protection	Class I or Class II		
Power according to models***	12 LEDs	24 LEDs	36 LEDs
Supply current			
HIGH EFFICIENCY	12 W	24 W	35 W
HIGH BALANCE	18 W	36 W	54 W
HIGH FLUX	24 W	49 W	73 W

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 55147 / EN 61000-3-2 / EN 50581
Support according to: EN 40-5

Warranty 5 years for luminaires and light groups

Supply and packaging Luminaire packed in recyclable cardboard to protect the product during transport and storage. Pole packed with foam reel protector and base plate with foam protector on edges.

Maintenance luminaire Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked over time. Lubricate the closures and/or hinges of the moving parts.

Keep the thermal radiation surface clean to ensure proper dissipation and not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** The luminaire power can vary around ± 7%.

SUPPORT

DIMENSIONS AND FASTENING SYSTEMS

Luminaire fastening	Bracket, Ø11 mm, Ø13 mm, Ø11 mm
Notes	Anchoring bolts and template provided

PHYSICAL FEATURES AND MATERIALS

IP	To achieve IP44, it is necessary to use the internal junction box with IP44 (not supplied with the pole).
Shaft	Cylindrical
Trapdoor	Flush
Construction	Made up of shaft, clamp and arm (optional)
Arm	Carbon steel sheet, S235JR quality
Clamp	Die-cast aluminium
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Recessed steel sheet, S235JR quality

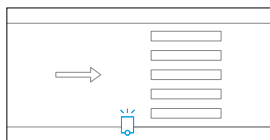
FINISHES

	TRAFIC PEATONAL	TRAFIC ESCOLAR
Spotlight Body	RD3000	BL5015
Spotlight Bracket	RD3000	BL5015
Bracket Trim	WH9003	WH9003
Arm/Clamp	WH9003 (Standard Paint)	WH9003 (Standard Paint)
Pole	RD3000 (Standard Paint)	BL5015 (Standard Paint)

TYPE EXAMPLES

A. One-lane street, 3.5 m wide, one-way traffic

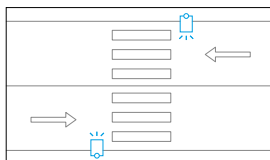
5 m high TRAFIC lighting point placed on right pavement, before reaching the pedestrian crossing following direction of traffic.



Finish	No. of lighting points	Optics	Dimming	Arm length	Description	Order code
● TRAFIC PEATONAL	1	TRF	MOV - movement detector	Tangential	TRFDES05SMTRFNDL_73W700IA23_MOV_C1TRFPED	500-000829603
● TRAFIC ESCOLAR	1	TRF	MOV - movement detector	Tangential	TRFDES05SMTRFNDL_73W700IA23_MOV_C1TRFSCCL	500-000829604

B. Two-lane street, 3.5 m wide, two-way traffic, total width 7 m

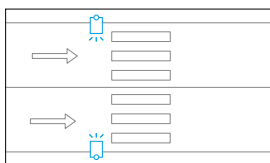
Two 5 m high TRAFIC lighting points placed on both pavements, before reaching the pedestrian crossing following direction of traffic of each lane.



Finish	No. of lighting points	Optics	Dimming	Arm length	Description	Order code
● TRAFIC PEATONAL	2	TRF	MOV - movement detector	Tangential	TRFDES05SMTRFNDL_73W700IA23_MOV_C1TRFPED	500-000829603
● TRAFIC ESCOLAR	2	TRF	MOV - movement detector	Tangential	TRFDES05SMTRFNDL_73W700IA23_MOV_C1TRFSCCL	500-000829604

C. Two-lane street, 3.5 m wide, one-way traffic, total width 7 m

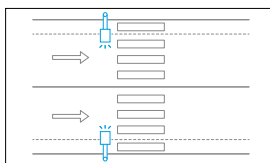
Two 5-m high TRAFIC lighting points placed on both pavements, before reaching the pedestrian crossing, TRF optics on right side and TRI optics on left side following direction of traffic.



Finish	No. of lighting points	Optics	Dimming	Arm length	Description	Order code
● TRAFIC PEATONAL	1	TRF	MOV - movement detector	Tangential	TRFDES05SMTRFNDL_73W700IA23_MOV_C1TRFPED	500-000829603
	1	TRI	MOV - movement detector	Tangential	TRFDES05SMTRINDL_73W700IA23_MOV_C1TRFPED	500-000829604
● TRAFIC ESCOLAR	1	TRF	MOV - movement detector	Tangential	TRFDES05SMTRFNDL_54W530IA23_MOV_C1TRFSCCL	500-001286604
	1	TRI	MOV - movement detector	Tangential	TRFDES05SMTRINDL_54W530IA23_MOV_C1TRFSCCL	500-001455604

D. Two-lane street, 3.5 m wide, plus two parking lanes, one-way traffic, total width 11 m

Two 5-m high TRAFIC lighting points, with 1.15-m arms, placed on both pavements, before reaching the pedestrian crossing following direction of traffic of each lane.



Finish	No. of lighting points	Optics	Dimming	Arm length	Description	Order code
● TRAFIC PEATONAL	1	TRF	MOV - movement detector	1,150 mm	TRADES05SMTRFNDL_73W700IA23_MOV_C1TRFPED	532-000829603
	1	TRI	MOV - movement detector	1,150 mm	TRADES05SMTRINDL_73W700IA23_MOV_C1TRFPED	532-001456603
● TRAFIC ESCOLAR	1	TRF	MOV - movement detector	1,150 mm	TRADES05SMTRFNDL_73W700IA23_MOV_C1TRFSCCL	532-000829604
	1	TRI	MOV - movement detector	1,150 mm	TRADES05SMTRINDL_73W700IA23_MOV_C1TRFSCCL	532-001456604



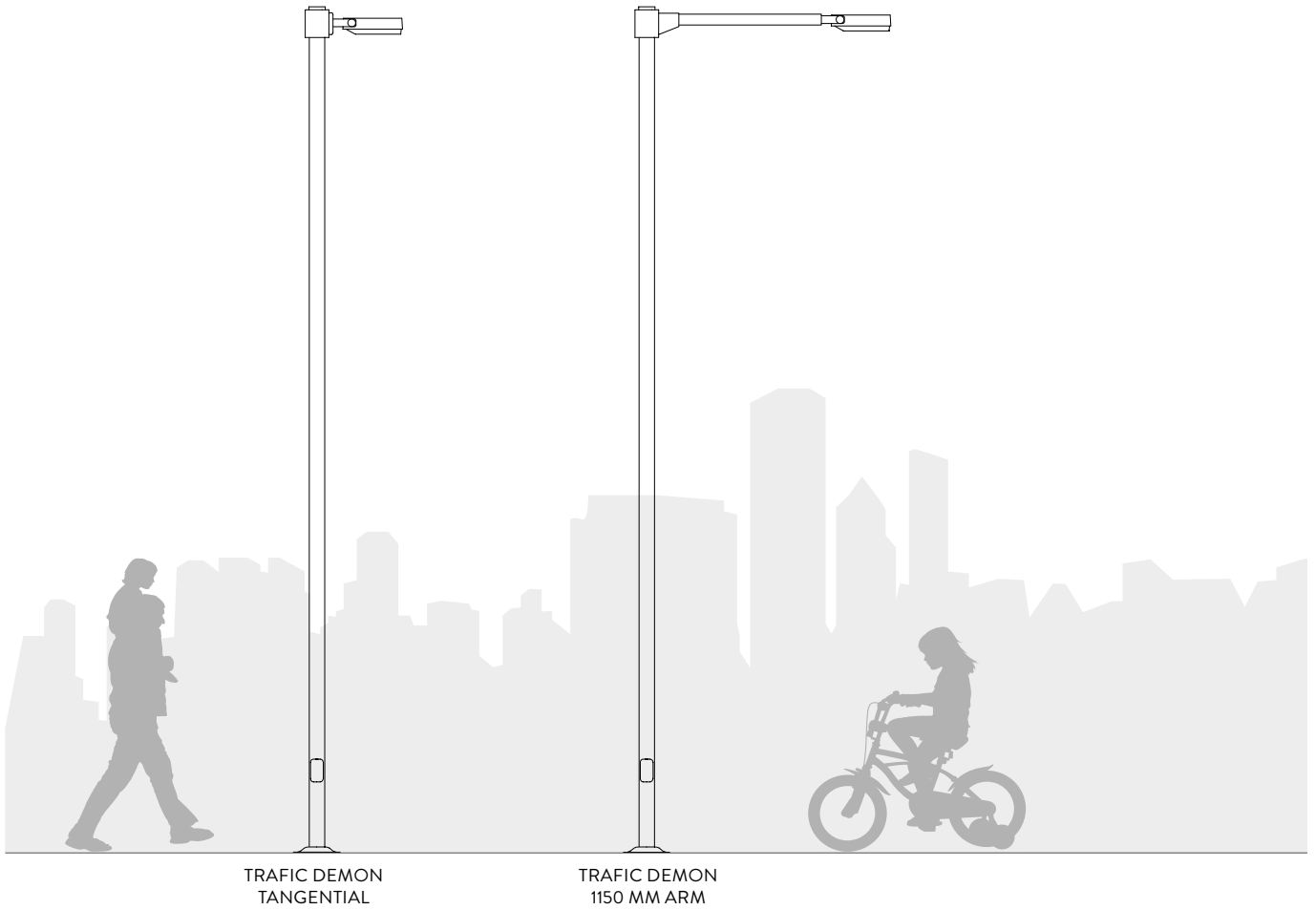
CONFIGURE YOUR TRAFIC DEMON

Model	Optics	Colour Temp.	Flux	Gear	Dimming	Protection	Finish	Description
TRFDES05SM								Simon TRAFIC DEMON Istanium® M lighting point, 5,000 mm high, trapdoor and recessed base plate according to measurements
TRADES05SM								Simon TRAFIC DEMON Istanium® M lighting point, 5,000 mm high, 1.15 m arm, trapdoor and recessed base plate according to measurements
	TRF							Trafic Optics
	TRI							Reverse Trafic Optics
		NDL						Neutral daylight - 4,000 K
		WDL						Warm daylight - 3,000 K
		SDL						Soft daylight - 2,700 K
			_54W530					54 W 530 mA
			_73W700					73 W 700 mA
								7,570 lm @ 4,000 K
								9,200 lm @ 4,000 K
								36 LEDS
								36 LEDS
				IA23_				Electronic control gear at 230 V _{AC} 50/60 Hz, standard protection against 6 kV power surges
				IA23S				Electronic control gear at 230 V _{AC} 50/60 Hz, additional protection against 10 kV power surges
				2N_				Dimming without control line (self-dimming)
				2N+				Dimming with control line
				1N_				Without dimming (on/off)
				CAD_				Cabinet amplitude dimming (electrical box dimmer)
				1-10				Dimming through 1.10 V input protocol
				DALI				Dimming through DALI input protocol
				MOV				Movement detector
					C1			Class 1 Luminaire electrical protection
					C2			Class 2 Luminaire electrical protection
							TRFPED	TRFPED finish, Trafic Peatonal
							TRFSCL	TRFSCL finish, Trafic Escolar

TECHNICAL INFORMATION (Units in mm)

Height	Diameter	Thickness	Door			Flange plate		Bolts	Arm	
H	∅ d	E	X	Y	Z	A	B	M x L	L1	Example
5,000	100	3	80	135	385	200	300	M18x500	0	A-B-C
5,000	100	3	80	135	385	200	300	M18x500	1,150	D

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.






TRAFIC DEMON
TANGENTIAL

TRAFIC DEMON
1150 MM ARM

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265

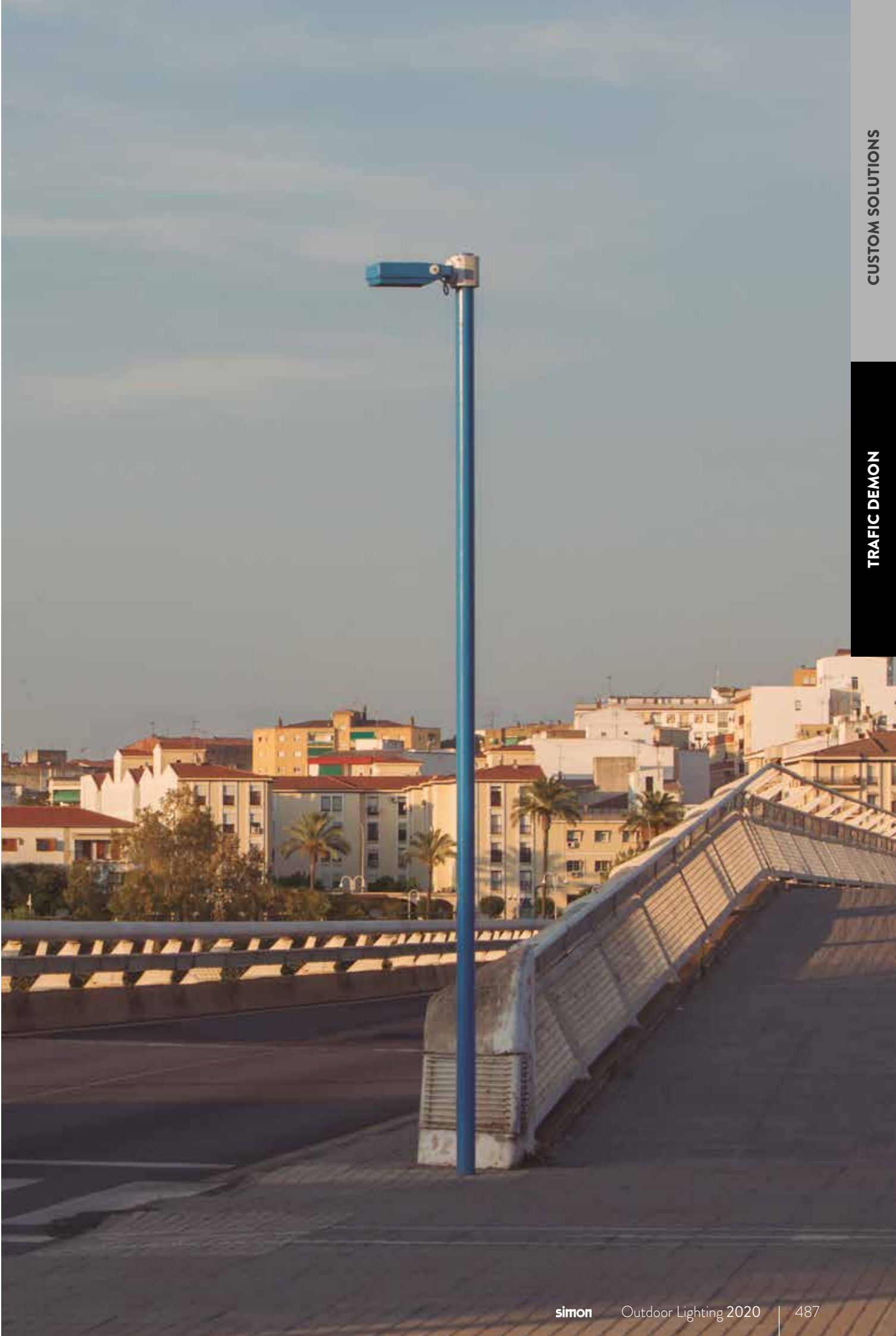
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

	Type of durability / atmospheric corrosion category*	Acid-less protection 	Stick-less protection 	Draw-less protection 
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafront Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

* According to EN ISO 12944

** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively





TRAFIC MILOS

ISTANIUM[®]

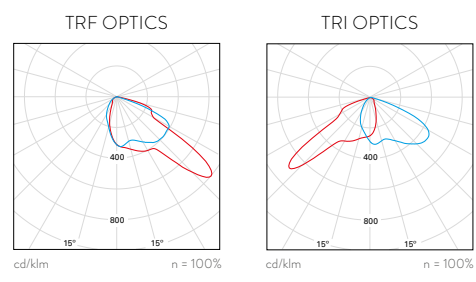
Simon TRAFIC MILOS LED lighting point, specifically for lighting pedestrian crossings, 5 m high, with cylindrical shaft, and lateral fastening for MILOS LED spotlight, size M, through tangential clamp or clamp with 1.150 m long arm.



Support:



COLOUR TEMP.: ND L 4000 K | WDL 3000 K | SDL 2700 K | XDL 2200 K* | PCA*
 COLOUR RENDERING INDEX: >70
 UPWARD LIGHT OUTPUT RATIO. (INST. ULOR): <1% (E1 zones, 0°-5° spotlight)
 LED DURATION (L90 B10 AT TEMP=25 °C Y TEMP=95 °C): 100.000h



— C0 - C180 — C90 - C270 * Upon request

Simon **TRAFIC MILOS LED** lighting point, specifically for lighting pedestrian crossings, 5 m high, with cylindrical shaft, and lateral fastening for MILOS LED spotlight, size M, through tangential clamp or clamp with 1.150 m long arm. Supported by a recessed flange plate, shaft and arms made of S235JR - quality carbon steel sheet. Clamps made of die - cast aluminium.

Flush trapdoor with interior reinforcement.

Lateral spotlight fastening using a clamp, with bracket anchoring using a screw, or lateral spotlight fastening using a clamp with arm, with bracket anchoring plate using screw. IP3X protection. To achieve IP44, it is necessary to use an internal junction box, not supplied.

Hot dip galvanised and painted finish. TRAFIC PEATONAL finish: support painted in Simon RD3000 colour and clamp / arm painted in Simon WH9003 colour.

TRAFIC ESCOLAR finish: support painted in Simon BL5015 colour and cable tie/arm painted in Simon WH9003 colour. Allows other protective finishes.

Supplied with anchoring bolts, template and double nut to level the base.

Pole with CE-certified constancy of performance.

Specific Simon MILOS LED spotlight, size M, made of die - cast aluminium.

Flat cover. Internal refrigeration system through fins. Access to gear and maintenance from the bottom with front lever opening, without tools. Easy-clean transparent flat tempered glass diffuser to prevent UV radiation in the optics. IP66 protection rating for full spotlight, and IK08 impact resistance rating.

Possibility of mounting two double asymmetrical multi - array optics, specifically for pedestrian crossing lighting, to direct light flux by keeping the longitudinal axis of the spotlight perpendicular to the road.

Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas.

LED service life L90 B10 100,000 hours. Istantium LED lighting groups can be replaced and updated even when the luminaire is installed, thereby extending its service life. Numerous different lighting packages are offered, thanks to its modular LED system. Upward Light Output Ratio (inst. ULOR) of less than 1% with an angle of 0° to ± 5°.

With Class I and Class II electronic control gear with 230 VAC / 50 Hz supply voltage. Allows additional protection against surges of 10 kV / 10 kA. Optional dimming with control line 2N+, without control line (Self-dimming) 2N-, by means of a flow dimmer from CAD cabinet amplitude dimming, for telemanagement with 1.10V or DALI input, according to luminaire model. Optional custom programming and maintenance of constant light output (CLO). TRAFIC PEATONAL finish: body and bracket painted in Simon RD3000 colour and bracket trim painted in Simon WH9003 colour. TRAFIC ESCOLAR finish: body and bracket painted in Simon BL5015 colour and bracket trim painted in Simon WH9003 colour. Dimensions 260x415x115 mm.

LUMINAIRE

PHYSICAL FEATURES AND MATERIALS

IP	IP66
IK	IK08
Body	Die-cast aluminium
Closure system	Painted die-cast aluminium lever
Fastening system	Painted galvanised sheet steel
Diffuser	Flat transparent shatter-proof tempered glass

ELECTRICAL PARAMETERS *

Temp.	-20 °C ... +35 °C		
Dimming**	2N- Without control line 2N+ With control line CAD Cabinet amplitude dimming 1N (100%) Without dimming 1.10V Dimming through 1.10V input protocol DALI Dimming through DALI input protocol		
	Luminaires supplied by electrical grid		
Supply voltage	220-240 V _{AC}		
Frequency	50 / 60 Hz		
Protection against power surge	6 kV (Possibility of increasing to 10 kV / 10 kA upon request)		
Power factor (cos)	≥0.95		
Luminaire electrical protection	Class I or Class II		
Power according to models***	36 LEDs	48 LEDs	60 LEDs
Supply current	3 mod	4 mod	5 mod
HIGH EFFICIENCY	35W	47W	59 W
HIGH BALANCE	54 W	73 W	91 W
HIGH FLUX	73 W	-	-

REGULATIONS AND CERTIFICATES



Luminaire according to: EN 60598-2-3 / EN 62493 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 50581
Support according to: EN 40-5

Warranty	5 years for luminaires and light groups
Supply and packaging	Luminaire packed in recyclable cardboard to protect the product during transport and storage. Pole packed with foam reel protector and base plate with foam protector on edges.
Maintenance luminaire	Keep the diffuser surface clean to achieve maximum light flux. Use a damp rag without any type of harsh product or detergent. Lubricate the sealing gaskets and replace them when they are cracked over time. Lubricate the closures and/or hinges of the moving parts. Keep the thermal radiation surface clean to ensure proper dissipation and not lose light flux without shortening the life of the LEDs.

* Values corresponding to the current state of technology. ** Check other regulations. *** The luminaire power can vary around ± 7%.

SUPPORT

DIMENSIONS AND FASTENING SYSTEMS

Luminaire fastening	Bracket, Ø13 mm, Ø15 mm, Ø13 mm
Notes	Anchoring bolts and template provided

PHYSICAL FEATURES AND MATERIALS

IP	To achieve IP44, it is necessary to use the internal junction box with IP44 (not supplied with the pole).
Shaft	Cylindrical
Trapdoor	Flush
Construction	Made up of shaft, clamp and arm (optional)
Arm	Carbon steel sheet, S235JR quality
Clamp	Die-cast aluminium
Shaft	Carbon steel sheet, S235JR quality
Flange plate	Recessed steel sheet, S235JR quality

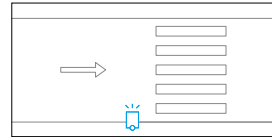
FINISHES

	TRAFIC PEATONAL	TRAFIC ESCOLAR
Spotlight Body	RD3000	BL5015
Spotlight Bracket	RD3000	BL5015
Bracket Trim	WH9003	WH9003
Arm/Clamp	WH9003 (Standard Paint)	WH9003 (Standard Paint)
Pole	RD3000 (Standard Paint)	BL5015 (Standard Paint)

TYPE EXAMPLES

A. One-lane street, 3.5 m wide, one-way traffic

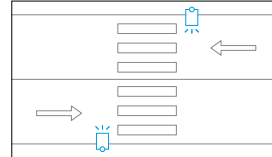
5 m high TRAFIC lighting point placed on right pavement, before reaching the pedestrian crossing following direction of traffic.



Finish	No. of lighting points	Optics	Dimming	Arm length	Description	Order code
● TRAFIC PEATONAL	1	TRF	1N - without dimming	Tangential	TRFMIM05SMTRFNDL_73W700IA23_1N__C1TRFPED	508-000831603
● TRAFIC ESCOLAR	1	TRF	1N - without dimming	Tangential	TRFMIM05SMTRFNDL_73W700IA23_1N__C1TRFSC	508-000831604

B. Two-lane street, 3.5 m wide, two-way traffic, total width 7 m

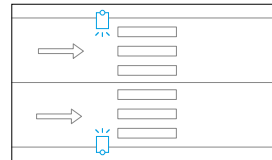
Two 5 m high TRAFIC lighting points placed on both pavements, before reaching the pedestrian crossing following direction of traffic of each lane.



Finish	No. of lighting points	Optics	Dimming	Arm length	Description	Order code
● TRAFIC PEATONAL	2	TRF	1N - without dimming	Tangential	TRFMIM05SMTRFNDL_73W700IA23_1N__C1TRFPED	508-000831603
● TRAFIC ESCOLAR	2	TRF	1N - without dimming	Tangential	TRFMIM05SMTRFNDL_73W700IA23_1N__C1TRFSC	508-000831604

C. Two-lane street, 3.5 m wide, one-way traffic, total width 7 m

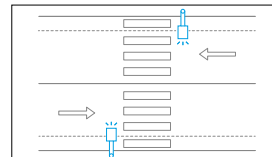
Two 5-m high TRAFIC lighting points placed on both pavements, before reaching the pedestrian crossing, TRF optics on right side and TRI optics on left side following direction of traffic.



Finish	No. of lighting points	Optics	Dimming	Arm length	Description	Order code
● TRAFIC PEATONAL	1	TRF	1N - without dimming	Tangential	TRFMIM05SMTRFNDL_54W530IA23_1N__C1TRFPED	500-000832603
	1	TRI	1N - without dimming	Tangential	TRFMIM05SMTRINDL_54W530IA23_1N__C1TRFPED	500-001457603
● TRAFIC ESCOLAR	1	TRF	1N - without dimming	Tangential	TRFMIM05SMTRFNDL_54W530IA23_1N__C1TRFSC	500-000832603
	1	TRI	1N - without dimming	Tangential	TRFMIM05SMTRINDL_54W530IA23_1N__C1TRFSC	500-001457604

D. Two-lane street, 3.5 m wide, plus two parking lanes, two-way traffic, total width 11 m

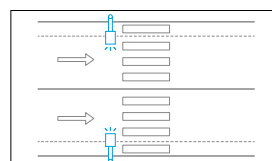
Two 5 m high TRAFIC lighting points, with 1.15 m arms, placed on both pavements, before reaching the pedestrian crossing following direction of traffic of each lane.



Finish	No. of lighting points	Optics	Dimming	Arm length	Description	Order code
● TRAFIC PEATONAL	2	TRF	1N - without dimming	1,150 mm	TRAMIM05SMTRFNDL_91W530IA23_1N__C1TRFPED	516-001065603
● TRAFIC ESCOLAR	2	TRF	1N - without dimming	1,150 mm	TRAMIM05SMTRFNDL_91W530IA23_1N__C1TRFSC	516-001065604

E. Two-lane street, 3.5 m wide, plus two parking lanes, one-way traffic, total width 11 m

Two 5 m high TRAFIC lighting points, with 1.15 m arms, placed on both pavements, before reaching the pedestrian crossing following direction of traffic of each lane.



Finish	No. of lighting points	Optics	Dimming	Arm length	Description	Order code
● TRAFIC PEATONAL	1	TRF	1N - without dimming	1,150 mm	TRAMIM05SMTRFNDL_73W700IA23_1N__C1TRFPED	516-000831603
	1	TRI	1N - without dimming	1,150 mm	TRAMIM05SMTRINDL_73W700IA23_1N__C1TRFPED	516-001458603
● TRAFIC ESCOLAR	1	TRF	1N - without dimming	1,150 mm	TRAMIM05SMTRFNDL_73W700IA23_1N__C1TRFSC	516-000831604
	1	TRI	1N - without dimming	1,150 mm	TRAMIM05SMTRINDL_73W700IA23_1N__C1TRFSC	516-001458604



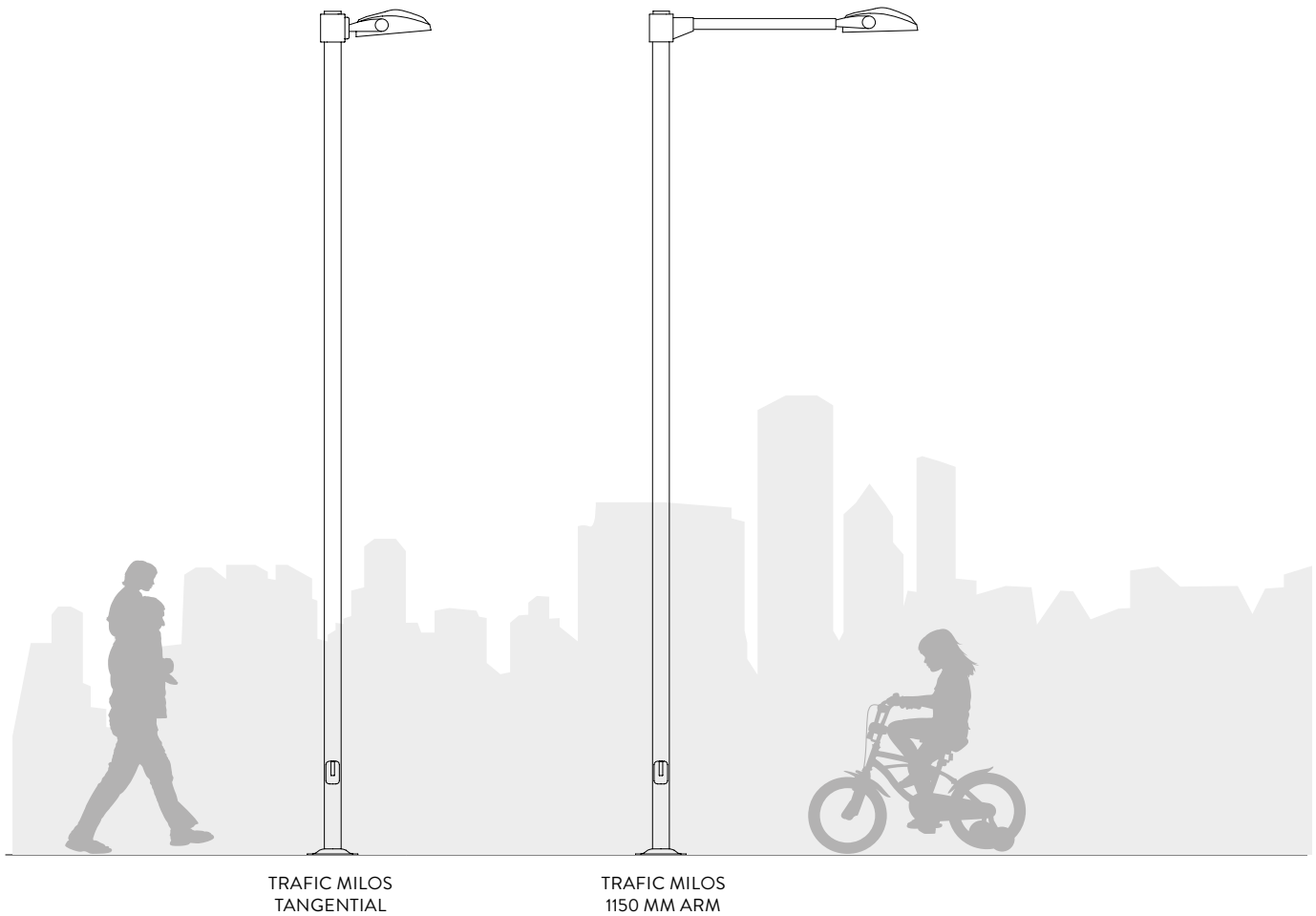
CONFIGURE YOUR TRAFIC MILOS

Model	Optics	Colour Temp.	Flux	Gear	Dimming	Protection	Finish	Description
TRFMIM05SM								Simon TRAFIC MILOS Istanium® M lighting point, 5,000 mm high, trapdoor and recessed base plate according to measurements
TRAMIM05SM								Simon TRAFIC MILOS Istanium® M lighting point, 5,000 mm high, 1.15m arm, trapdoor and recessed base plate according to measurements
	TRF							Trafic Optics
	TRI							Reverse Trafic Optics
		NDL						Neutral daylight - 4,000 K
		WDL						Warm daylight - 3,000 K
		SDL						Soft daylight - 2,700 K
			_54W530					54 W 530 mA
			_73W700					73 W 700 mA
			_91W530					91 W 530 mA
				IA23				Electronic control gear at 230 VAc 50/60 Hz, standard protection against 6 kV power surges
				IA23S				Electronic control gear at 230 VAc 50/60 Hz, additional protection against 10 kV power surges
				2N-				Dimming without control line (self-dimming)
				2N+				Dimming with control line
				1N				Without dimming (on/off)
				CAD				Cabinet amplitude dimming (electrical box dimmer)
				1-10				Dimming through 1.10 V input protocol
				DALI				Dimming through DALI input protocol
				C1				Class 1 Luminaire electrical protection
				C2				Class 2 Luminaire electrical protection
							TRFPED	TRFPED finish, Trafic Peatonal
							TRFSCS	TRFSCS finish, Trafic Escolar

TECHNICAL INFORMATION (Units in mm)

Height	Diameter	Thickness	Door			Flange plate		Bolts	Arm	
H	Ø D	E	X	Y	Z	A	B	M x L	L1	Example
5,000	100	3	80	135	385	200	300	M18x500	0	A-B-C
5,000	100	3	80	135	385	200	300	M18x500	1,150	D-E

The luminaire flow output can vary around ± 6% regarding those published according to environmental condition and/or the constant progress that LED technology undergoes. The luminaire power can vary around ± 7% regarding those published according to environmental condition and/or the constant progress that technology undergoes.






TRAFIC MILOS
TANGENTIAL

TRAFIC MILOS
1150 MM ARM

ACCESSORIES / REPLACEMENTS

Description	Order code
Triangular 10 mm key to close trapdoor	50-73265

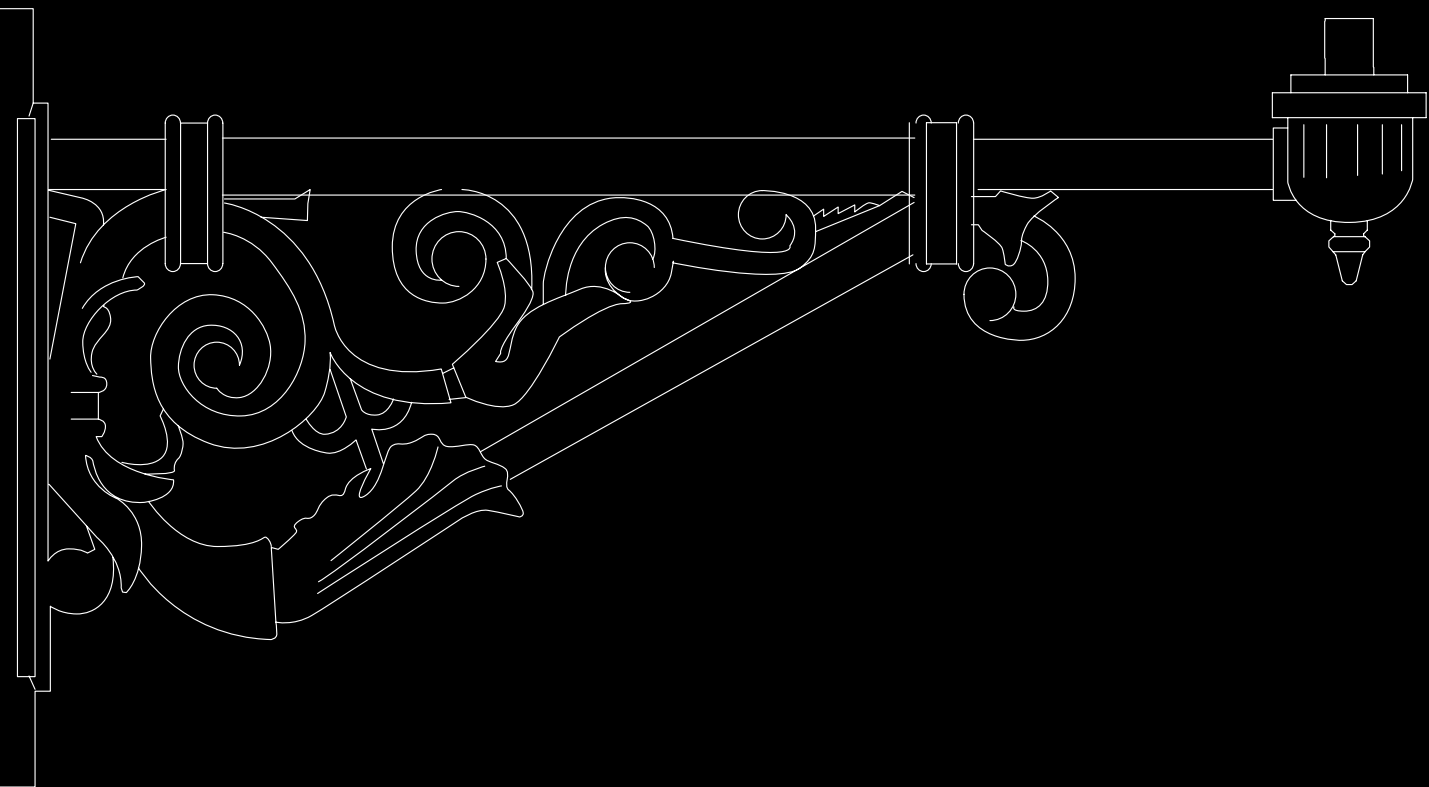
SUPPORT PROTECTIVE SYSTEMS AND FINISHES

Type of durability / atmospheric corrosion category*		 Acid-less protection	 Stick-less protection	 Draw-less protection
Standard Paint Finish: hot dip galvanised** and painted	Average durability in corrosive environment C4.	✓	✓	✓
Seafrost Paint Finish: hot dip galvanised** and painted	High durability in corrosive environment C5M.	✓	✓	✓

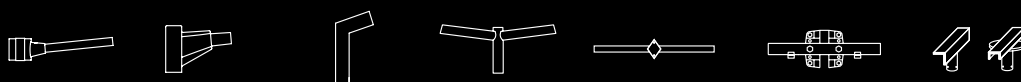
* According to EN ISO 12944 ** According to EN ISO 1461

See expanded information on protection systems and finishes on pages 28 and 514 respectively





ARMS AND OTHER ACCESSORIES



ALF1
P.496

ALF2
P.498

ALF3
P.499

CROSSPIECES
P.500

CR1
P.501

CR2
P.502

CR3
P.503



BM1
P.504

BM13
P.505

BM10
P.506

BM11
P.507

BM2
P.508

BM5
P.509

BM9
P.509

ALF1

Arm with decorative urban pole fastening clamp.
To fasten additional luminaires and spotlights
to poles and curved poles with no need for
couplings.



ALF1 for luminaires



ALF1 for spotlights

FASTENING SYSTEMS

Luminaire fastening	Lateral fastening for luminaires: Ø60 mm coupling. Lateral fastening for spotlights: M10 hole for fastening screw.
Installation	Arm to cylindrical or conical tapering pole for lateral luminaires or spotlights with bracket using clamps in two sizes. To choose proper clamp size, see attached table.
Notes	0° or 6° angle according to assembly allow the direction of luminaire light flux.
Recommendation	Not suitable for KOS or LORE spotlights.

MATERIALS

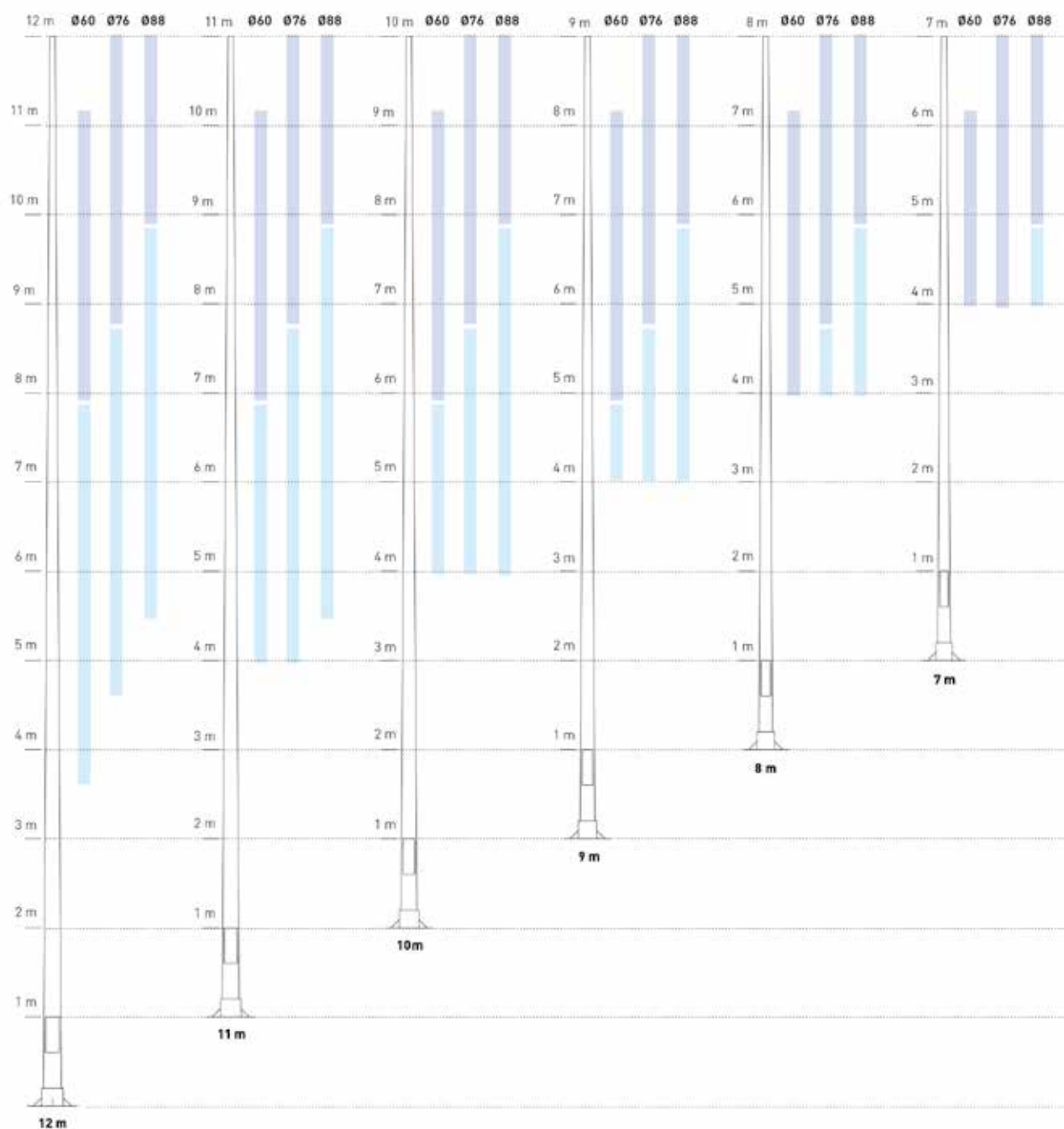
Arm	Steel tube.
Clamp	Die-cast aluminium

FINISHES

Arm	Hot dip galvanised
Clamp	Painted in GYTECH Simon Colours RAL chart colours

BASE REFERENCES (Units in mm)

Model	Fastening	Arm length (L)	D	P	Finish	Offer codes	Order code	
ALF 1 for luminaires		Lateral at 5°	350	Ø60	76-115	GYTECH/GV	ALF1C_350_L05_1D60_UT115_PCF____GYT_GV	50-33252
		Lateral at 5°	350	Ø60	115-154	GYTECH/GV	ALF1C_350_L05_1D60_UT154_PCF____GYT_GV	50-33262
		Lateral at 5°	700	Ø60	76-115	GYTECH/GV	ALF1C_700_L05_1D60_UT115_PCF____GYT_GV	50-33254
		Lateral at 5°	700	Ø60	115-154	GYTECH/GV	ALF1C_700_L05_1D60_UT154_PCF____GYT_GV	50-33264
		Lateral at 5°	1,150	Ø60	76-115	GYTECH/GV	ALF1C1150_L05_1D60_UT115_PCF____GYT_GV	50-33250
		Lateral at 5°	1,150	Ø60	115-154	GYTECH/GV	ALF1C1150_L05_1D60_UT154_PCF____GYT_GV	50-33260
		Lateral at 5°	350	Ø60	76-115	GYTECH/GV	ALF1C_350_L05_2D60_UT115_PCF____GYT_GV	50-33253
		Lateral at 5°	350	Ø60	115-154	GYTECH/GV	ALF1C_350_L05_2D60_UT154_PCF____GYT_GV	50-33263
		Lateral at 5°	700	Ø60	76-115	GYTECH/GV	ALF1C_700_L05_2D60_UT115_PCF____GYT_GV	50-33255
		Lateral at 5°	700	Ø60	115-154	GYTECH/GV	ALF1C_700_L05_2D60_UT154_PCF____GYT_GV	50-33265
		Lateral at 5°	1,150	Ø60	76-115	GYTECH/GV	ALF1C1150_L05_2D60_UT115_PCF____GYT_GV	50-33251
		Lateral at 5°	1,150	Ø60	115-154	GYTECH/GV	ALF1C1150_L05_2D60_UT154_PCF____GYT_GV	50-33261
		Lateral at 5°	1,150	Ø60	115-154	GYTECH/GV	ALF1C1150_L05_2D60_UT154_PCF____GYT_GV	50-33261
	ALF1 for spotlights		Lateral at 0°	10	1PR	76-115	GYTECH/GV	ALF1C__10_L00_1PR__UT115_PCF____GYT_GV
Lateral at 0°			10	1PR	115-154	GYTECH/GV	ALF1C__10_L00_1PR__UT154_PCF____GYT_GV	5-531846-012
		Lateral at 0°	10	2PR	76-115	GYTECH/GV	ALF1C__10_L00_2PR__UT115_PCF____GYT_GV	5-531853-012
		Lateral at 0°	10	2PR	115-154	GYTECH/GV	ALF1C__10_L00_2PR__UT154_PCF____GYT_GV	5-531851-012



CLAMP SIZE CHOICE

Appropriate clamp size choice for 12/1000 conical tapering poles:

1. Choose the post-top diameter of the pole in the configurator.
2. Choose the clamp assembly height in the configurator.
3. The configurator determines the appropriate clamp size.

Choosing the appropriate clamp for cylindrical poles:

Choose clamp size according to pole diameter:

■ from Ø76 mm to Ø115 mm, small clamp

■ from Ø115 mm to Ø154 mm, large clamp

SMALL CLAMP

	1 ARM	2 ARMS
1150 mm	50-33250	50-33251
700 mm	50-33254	50-33255
350 mm	50-33252	50-33253
Spotlight	5-531852-012	5-531853-012

LARGE CLAMP

	1 ARM	2 ARMS
1150 mm	50-33260	50-33261
700 mm	50-33264	50-33265
350 mm	50-33262	50-33263
Spotlight	5-531846-012	5-531851-012

ALF2

Accessory for luminaire fastening
at end of pole / wall adaptation,
decorative urban



Double arm at end of pole



Wall adaptation arm



Arm at end of pole

FASTENING SYSTEMS

Luminaire fastening	Lateral fastening: Ø60 mm coupling.
Installation	For ends on conical tapering or cylindrical poles, Ø60 mm or Ø76 mm.
Notes	5° angle for arms to pole.

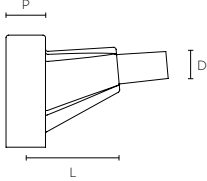
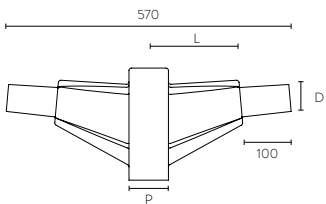
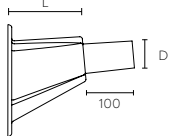
MATERIALS

Arm	Die-cast aluminium.
------------	---------------------

FINISHES

Arm	GY9007 GY9006 DGCLAS GYDECO GYTECH WH9010 Simon Colours RAL chart colours
------------	--

BASE REFERENCES (Units in mm)

	Fastening	Arm length (L)	D	P	Finish	Offer codes	Order code
Arm at end of pole 	Lateral at 5°	190	Ø60	Ø60	GY9007	ALF2C_190_L05_1D60_P60_PCF____GY9007	50-33950
	Lateral at 5°	190	Ø60	Ø76	GY9007	ALF2C_190_L05_1D60_P76_PCF____GY9007	50-33956
	Lateral at 5°	190	Ø60	Ø60	GY9006	ALF2C_190_L05_1D60_P60_PCF____GY9006	50-33960
	Lateral at 5°	190	Ø60	Ø76	GY9006	ALF2C_190_L05_1D60_P76_PCF____GY9006	50-33966
	Lateral at 5°	190	Ø60	Ø60	DGCLAS	ALF2C_190_L05_1D60_P60_PCF____DGCLAS	50-33970
	Lateral at 5°	190	Ø60	Ø76	DGCLAS	ALF2C_190_L05_1D60_P76_PCF____DGCLAS	50-33976
	Lateral at 5°	190	Ø60	Ø60	GYDECO	ALF2C_190_L05_1D60_P60_PCF____GYDECO	50-33550
	Lateral at 5°	190	Ø60	Ø76	GYDECO	ALF2C_190_L05_1D60_P76_PCF____GYDECO	50-33556
	Lateral at 5°	190	Ø60	Ø60	GYTECH	ALF2C_190_L05_1D60_P60_PCF____GYTECH	50-33560
	Lateral at 5°	190	Ø60	Ø76	GYTECH	ALF2C_190_L05_1D60_P76_PCF____GYTECH	50-33566
Double arm at end of pole 	Lateral at 5°	190	Ø60	Ø60	GY9007	ALF2C_190_L05_2D60_P60_PCF____GY9007	50-33954
	Lateral at 5°	190	Ø60	Ø76	GY9007	ALF2C_190_L05_2D60_P76_PCF____GY9007	50-33957
	Lateral at 5°	190	Ø60	Ø60	GY9006	ALF2C_190_L05_2D60_P60_PCF____GY9006	50-33964
	Lateral at 5°	190	Ø60	Ø76	GY9006	ALF2C_190_L05_2D60_P76_PCF____GY9006	50-33967
	Lateral at 5°	190	Ø60	Ø60	DGCLAS	ALF2C_190_L05_2D60_P60_PCF____DGCLAS	50-33974
	Lateral at 5°	190	Ø60	Ø76	DGCLAS	ALF2C_190_L05_2D60_P76_PCF____DGCLAS	50-33977
	Lateral at 5°	190	Ø60	Ø60	GYDECO	ALF2C_190_L05_2D60_P60_PCF____GYDECO	50-33554
	Lateral at 5°	190	Ø60	Ø76	GYDECO	ALF2C_190_L05_2D60_P76_PCF____GYDECO	50-33857
	Lateral at 5°	190	Ø60	Ø60	GYTECH	ALF2C_190_L05_2D60_P60_PCF____GYTECH	50-33564
	Lateral at 5°	190	Ø60	Ø76	GYTECH	ALF2C_190_L05_2D60_P76_PCF____GYTECH	50-33867
Wall adaptation arm 	Lateral at 5°	166	Ø60	Wall	GY9007	ALF2C_166_L05_1D60_WALL_PCF____GY9007	50-33951
	Lateral at 5°	166	Ø60	Wall	GY9006	ALF2C_166_L05_1D60_WALL_PCF____GY9006	50-33961
	Lateral at 5°	166	Ø60	Wall	DGCLAS	ALF2C_166_L05_1D60_WALL_PCF____DGCLAS	50-33971
	Lateral at 5°	166	Ø60	Wall	GYDECO	ALF2C_166_L05_1D60_WALL_PCF____GYDECO	50-33851
	Lateral at 5°	166	Ø60	Wall	GYTECH	ALF2C_166_L05_1D60_WALL_PCF____GYTECH	50-33861

ALF3

Accessory for luminaire fastening at end of pole.

FASTENING SYSTEMS

Installation	For ends on conical tapering or cylindrical poles, Ø60 mm / Ø48 mm
Notes	5°, 10° or 15° angle for arms to luminaire pole.

MATERIALS

Arm	Steel structural tube.
Fastening plate	Galvanised steel sheet.

FINISHES

Arm	Hot dip galvanised and painted according to model. Simon Colours RAL chart colours
------------	--



Accessory at end of pole



Double accessory at end of pole

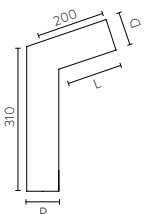
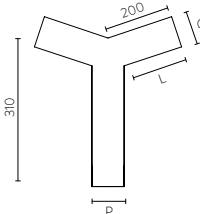





Simple arm at end of pole



Double arm at end of pole

BASE REFERENCES (Units in mm)

Model	Fastening	Arm length (L)	D	P	Finish	Offer codes	Order code
Accessory at end of pole conical tapering or cylindrical for one luminaire 	Lateral at 15°	100	Ø48	Ø48	GV	ALF3C_100_L15_1D48_P48_PCF_GV	50-33334
	Lateral at 15°	100	Ø48	Ø60	GV	ALF3C_100_L15_1D48_P60_PCF_GV	50-33335
	Lateral at 10°	129	Ø60	Ø60	GY9007	ALF3C_129_L10_1D60_P60_PCF_GY9007	5-533361
	Lateral at 10°	129	Ø60	Ø60	GY9006	ALF3C_129_L10_1D60_P60_PCF_GY9006	5-533360
	Lateral at 10°	129	Ø60	Ø60	DGCLAS	ALF3C_129_L10_1D60_P60_PCF_DGCLAS	5-533364
	Lateral at 10°	129	Ø60	Ø60	GYDECO	ALF3C_129_L10_1D60_P60_PCF_GYDECO	5-533366
	Lateral at 10°	129	Ø60	Ø60	GYTECH	ALF3C_129_L10_1D60_P60_PCF_GYTECH	5-533365
	Lateral at 5°	129	Ø60	Ø60	GY9007	ALF3C_129_L05_1D60_P60_PCF_GY9007	5-533362
	Lateral at 5°	129	Ø60	Ø60	GY9006	ALF3C_129_L05_1D60_P60_PCF_GY9006	5-533367
	Lateral at 5°	129	Ø60	Ø60	DGCLAS	ALF3C_129_L05_1D60_P60_PCF_DGCLAS	5-533368
	Lateral at 5°	129	Ø60	Ø60	GYDECO	ALF3C_129_L05_1D60_P60_PCF_GYDECO	5-533370
	Lateral at 5°	129	Ø60	Ø60	GYTECH	ALF3C_129_L05_1D60_P60_PCF_GYTECH	5-533369
	Double accessory at end of conical tapering or cylindrical pole for two luminaires 	Lateral at 5°	129	Ø60	Ø60	GY9007	ALF3C_129_L10_2D60_P60_PCF_GY9007
Lateral at 5°		129	Ø60	Ø60	GY9006	ALF3C_129_L10_2D60_P60_PCF_GY9006	5-533371
Lateral at 5°		129	Ø60	Ø60	DGCLAS	ALF3C_129_L10_2D60_P60_PCF_DGCLAS	5-533372
Lateral at 5°		129	Ø60	Ø60	GYDECO	ALF3C_129_L10_2D60_P60_PCF_GYDECO	5-533374
Lateral at 5°		129	Ø60	Ø60	GYTECH	ALF3C_129_L10_2D60_P60_PCF_GYTECH	5-533373
Simple arm at end of conical tapering or cylindrical pole for one spotlight 	Lateral at 0°	41	PR	Ø60	GV	ALF3C_41_L00_1PR_P60_PCF_GV	5-531830
	Lateral at 0°	41	PR	Ø60	GYTECH	ALF3C_41_L00_1PR_P60_PCF_GYTECH	5-531830-012
Simple arm at end of conical tapering or cylindrical pole for one spotlight 	Lateral at 0°	129	PR	Ø60	GV	ALF3C_129_L10_1PR_P60_PCF_GV	5-531838
	Lateral at 0°	129	PR	Ø60	GYTECH	ALF3C_129_L10_1PR_P60_PCF_GYTECH	5-531838-012
Double arm at end of conical tapering or cylindrical pole for two spotlights 	Lateral at 0°	129	PR	Ø60	GV	ALF3C_129_L10_2PR_P60_PCF_GV	5-531839
	Lateral at 0°	129	PR	Ø60	GYTECH	ALF3C_129_L10_2PR_P60_PCF_GYTECH	5-531839-012



CROSSPIECES

Functional support.

FASTENING SYSTEMS

Luminaire fastening	Lateral fastening: through Ø60 mm coupling in horizontal position.
Installation	Pole support for lateral luminaires.
Notes	Different measurements according to post top and luminaire coupling diameter.

MATERIALS

Arm	Steel structural tube.
------------	------------------------

FINISHES

Arm	Standard: Hot dip galvanised. Simon Colours RAL chart colours
------------	---

BASE REFERENCES (Units in mm)

Model	Fastening	Arm length (L)	D	P	Finish	Offer codes	Order code
1-arm crosspiece at end of conical tapering or cylindrical pole 	Lateral at 5°	500	Ø60	Ø60	GV	CRT_C_500_L05_1D60_P60_PCF_GV	CR16060500
	Lateral at 5°	500	Ø60	Ø76	GV	CRT_C_500_L05_1D60_P76_PCF_GV	CR17660500
	Lateral at 5°	700	Ø60	Ø60	GV	CRT_C_700_L05_1D60_P60_PCF_GV	CR16060700
	Lateral at 5°	700	Ø60	Ø76	GV	CRT_C_700_L05_1D60_P76_PCF_GV	CR17660700
	Lateral at 5°	1,000	Ø60	Ø60	GV	CRT_C1000_L05_1D60_P60_PCF_GV	CR160601000
	Lateral at 5°	1,000	Ø60	Ø76	GV	CRT_C1000_L05_1D60_P76_PCF_GV	CR176601000
	Lateral at 5°	1,500	Ø60	Ø60	GV	CRT_C1500_L05_1D60_P60_PCF_GV	CR160601500
	Lateral at 5°	1,500	Ø60	Ø76	GV	CRT_C1500_L05_1D60_P76_PCF_GV	CR176601500
2-arm crosspiece at 180°, end of conical tapering or cylindrical pole 	Lateral at 5°	500	Ø60	Ø60	GV	CRT_C_500_L05_2D60_P60_PCF_GV	CR26060500
	Lateral at 5°	500	Ø60	Ø76	GV	CRT_C_500_L05_2D60_P76_PCF_GV	CR27660500
	Lateral at 5°	700	Ø60	Ø60	GV	CRT_C_700_L05_2D60_P60_PCF_GV	CR26060700
	Lateral at 5°	700	Ø60	Ø76	GV	CRT_C_700_L05_2D60_P76_PCF_GV	CR27660700
	Lateral at 5°	1,000	Ø60	Ø60	GV	CRT_C1000_L05_2D60_P60_PCF_GV	CR260601000
	Lateral at 5°	1,000	Ø60	Ø76	GV	CRT_C1000_L05_2D60_P76_PCF_GV	CR276601000
	Lateral at 5°	1,500	Ø60	Ø60	GV	CRT_C1500_L05_2D60_P60_PCF_GV	CR260601500
	Lateral at 5°	1,500	Ø60	Ø76	GV	CRT_C1500_L05_2D60_P76_PCF_GV	CR276601500
3-arm crosspiece at 120°, end of conical tapering or cylindrical pole 	Lateral at 5°	500	Ø60	Ø60	GV	CRT_C_500_L05_3D60_P60_PCF_GV	CR36060500
	Lateral at 5°	500	Ø60	Ø76	GV	CRT_C_500_L05_3D60_P76_PCF_GV	CR37660500
	Lateral at 5°	700	Ø60	Ø60	GV	CRT_C_700_L05_3D60_P60_PCF_GV	CR36060700
	Lateral at 5°	700	Ø60	Ø76	GV	CRT_C_700_L05_3D60_P76_PCF_GV	CR37660700
	Lateral at 5°	1,000	Ø60	Ø60	GV	CRT_C1000_L05_3D60_P60_PCF_GV	CR360601000
	Lateral at 5°	1,000	Ø60	Ø76	GV	CRT_C1000_L05_3D60_P76_PCF_GV	CR376601000
	Lateral at 5°	1,500	Ø60	Ø60	GV	CRT_C1500_L05_3D60_P60_PCF_GV	CR360601500
	Lateral at 5°	1,500	Ø60	Ø76	GV	CRT_C1500_L05_3D60_P76_PCF_GV	CR376601500
4-arm crosspiece at 90°, end of conical tapering or cylindrical pole 	Lateral at 5°	500	Ø60	Ø60	GV	CRT_C_500_L05_4D60_P60_PCF_GV	CR46060500
	Lateral at 5°	500	Ø60	Ø76	GV	CRT_C_500_L05_4D60_P76_PCF_GV	CR47660500
	Lateral at 5°	700	Ø60	Ø60	GV	CRT_C_700_L05_4D60_P60_PCF_GV	CR46060700
	Lateral at 5°	700	Ø60	Ø76	GV	CRT_C_700_L05_4D60_P76_PCF_GV	CR47660700
	Lateral at 5°	1,000	Ø60	Ø60	GV	CRT_C1000_L05_4D60_P60_PCF_GV	CR460601000
	Lateral at 5°	1,000	Ø60	Ø76	GV	CRT_C1000_L05_4D60_P76_PCF_GV	CR476601000
	Lateral at 5°	1,500	Ø60	Ø60	GV	CRT_C1500_L05_4D60_P60_PCF_GV	CR460601500
	Lateral at 5°	1,500	Ø60	Ø76	GV	CRT_C1500_L05_4D60_P76_PCF_GV	CR476601500

CR1

Crosspiece for spotlights, with Ø60, 70 or 88 mm post-top pole coupling



FASTENING SYSTEMS

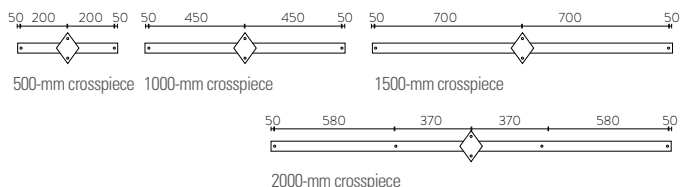
Notes	For Ø60, 76 or 88 mm pole end. Requires end coupling for assembly to pole (according to Ø). Table specifies the maximum number of spotlights.
Recommendation	Verify layout according to spotlight measurements.

MATERIALS

Arm	Steel sheet.
Screws	Zinc-coated steel.

FINISHES

Arm	Hot dip galvanised.
------------	---------------------



IMPORTANT: Verify layout according to spotlight measurements.

CROSSPIECE BASE REFERENCES (Units in mm)

Model	Arm length (L)	P	Maximum luminaires using crosspieces				Offer codes	Order code
			Milos S	Milos M Demon	Lore Fogo	Kos		
Crosspiece arm	500	60	3	2	2	1	CR1_C_500_PU0__PR__UT88__PCF____GV____	S-577278
	500	70	4	2	2	2	CR1_C_500_PU0__PR__UT88__PCF____GV____	S-577278
	500	88	4	2	2	2	CR1_C_500_PU0__PR__UT88__PCF____GV____	S-577278
	1,000	60	3	2	2	1	CR1_C1000_PU0__PR__UT88__PCF____GV____	S-577279
	1,000	70	5	3	3	2	CR1_C1000_PU0__PR__UT88__PCF____GV____	S-577279
	1,000	88	6	4	4	3	CR1_C1000_PU0__PR__UT88__PCF____GV____	S-577279
	1,500	60	3	2	2	1	CR1_C1500_PU0__PR__UT88__PCF____GV____	S-577280
	1,500	70	5	3	3	2	CR1_C1500_PU0__PR__UT88__PCF____GV____	S-577280
	1,500	88	6	4	4	3	CR1_C1500_PU0__PR__UT88__PCF____GV____	S-577280
	2,000	60	3	2	2	1	CR1_C2000_PU0__PR__UT88__PCF____GV____	S-577281
	2,000	70	5	3	3	2	CR1_C2000_PU0__PR__UT88__PCF____GV____	S-577281
	2,000	88	7	4	4	3	CR1_C2000_PU0__PR__UT88__PCF____GV____	S-577281

COUPLING BASE REFERENCES

Model	Length (L)	P2	Description	Order code
Coupling	400	76	for CR1 crosspiece on Ø60 support	5-577169
	400	88	for CR1 crosspiece on Ø76 support	5-577170
	400	100	for CR1 crosspiece on Ø88 support	5-577171

CR2

Crosspiece for spotlights, with pole coupling using a clamp. From Ø48 to 90 mm



Base for crosspiece



Clamp base for spotlight

FASTENING SYSTEMS

Notes For tube from Ø48 to 90 mm

MATERIALS

Arm Steel sheet.

Joint element Die-cast aluminium.

FINISHES

Arm Hot dip galvanised.

BASE REFERENCES (Units in mm)

Model	Arm length (L)	Maximum luminaires using crosspieces	Offer codes	Order code
Crosspiece for pole spotlights of Ø48 up to 90 mm	800	2	CR2_C_800_L00_2PR_UT90_PCF____GV____	5-577080
	1,000	-	CR2_C1000_L00_2PR_UT90_PCF____GV____	5-577083
	1,830	2	CR2_C1830_L00_2PR_UT90_PCF____GV____	5-577081
	1,830	3	CR2_C1830_L00_3PR_UT90_PCF____GV____	5-577082

BASE REFERENCES

Model	Offer description	Offer codes	Order code
Clamp	Tube fastening clamp	ZA_COL____CLMP_TUBE	50-70133

CR3

Crosspiece without drill holes for spotlights, with pole coupling.



L profile



U profile

FASTENING SYSTEMS

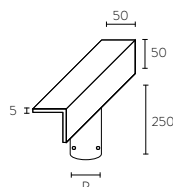
Notes No drill holes.
For Ø60, 76 or 88 mm pole end.

MATERIALS

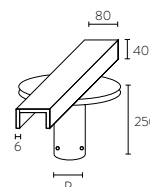
Arm Steel profile.
Cylindrical tube Steel.
Screws Steel.

FINISHES

Crosspiece Hot dip galvanised.
Simon Colours
RAL chart colours



L profile



U profile

BASE REFERENCES (Units in mm)

Model	Fastening	Arm length (L)	P	Finish	Offer codes	Order code
L profile, end of conical tapering or cylindrical pole	Lateral at 0°	500	Ø60	GV	CR3_C_500_PL0_PR_P60_PCF_GV	S-577257
	Lateral at 0°	500	Ø76	GV	CR3_C_500_PL0_PR_P76_PCF_GV	S-577258
	Lateral at 0°	500	Ø88	GV	CR3_C_500_PL0_PR_P88_PCF_GV	S-577259
	Lateral at 0°	1,000	Ø60	GV	CR3_C1000_PL0_PR_P60_PCF_GV	S-577260
	Lateral at 0°	1,000	Ø76	GV	CR3_C1000_PL0_PR_P76_PCF_GV	S-577261
	Lateral at 0°	1,000	Ø88	GV	CR3_C1000_PL0_PR_P88_PCF_GV	S-577262
	Lateral at 0°	1,500	Ø60	GV	CR3_C1500_PL0_PR_P60_PCF_GV	S-577263
	Lateral at 0°	1,500	Ø76	GV	CR3_C1500_PL0_PR_P76_PCF_GV	S-577264
	Lateral at 0°	1,500	Ø88	GV	CR3_C1500_PL0_PR_P88_PCF_GV	S-577265
U profile, end of conical tapering or cylindrical pole	Lateral at 0°	500	Ø60	GV	CR3_C_500_PU0_PR_P60_PCF_GV	S-577266
	Lateral at 0°	500	Ø76	GV	CR3_C_500_PU0_PR_P76_PCF_GV	S-577267
	Lateral at 0°	500	Ø88	GV	CR3_C_500_PU0_PR_P88_PCF_GV	S-577268
	Lateral at 0°	1,000	Ø60	GV	CR3_C1000_PU0_PR_P60_PCF_GV	S-577269
	Lateral at 0°	1,000	Ø76	GV	CR3_C1000_PU0_PR_P76_PCF_GV	S-577270
	Lateral at 0°	1,000	Ø88	GV	CR3_C1000_PU0_PR_P88_PCF_GV	S-577271
	Lateral at 0°	1,500	Ø60	GV	CR3_C1500_PU0_PR_P60_PCF_GV	S-577272
	Lateral at 0°	1,500	Ø76	GV	CR3_C1500_PU0_PR_P76_PCF_GV	S-577273
	Lateral at 0°	1,500	Ø88	GV	CR3_C1500_PU0_PR_P88_PCF_GV	S-577274
	Lateral at 0°	2,000	Ø60	GV	CR3_C2000_PU0_PR_P60_PCF_GV	S-577275
	Lateral at 0°	2,000	Ø76	GV	CR3_C2000_PU0_PR_P76_PCF_GV	S-577276
	Lateral at 0°	2,000	Ø88	GV	CR3_C2000_PU0_PR_P88_PCF_GV	S-577277

BM1

Wall arm, decorative urban



BM1 without gear holder, lateral fastening



BM1 without gear holder, suspended fastening

FASTENING SYSTEMS

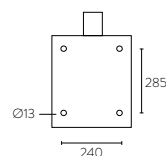
Lateral fastening	With Ø60 mm x 110 mm coupling, and 5° angle at end of arm.
Suspended fastening	3/4 "G screw at end of arm, in vertical position.
Installation	Wall arm for suspended or lateral luminaires.

MATERIALS

Arm	Steel sheet.
------------	--------------

FINISHES

Arm	GY9007 GY9006 DGCLAS GYDECO GYTECH WH9010 Simon Colours RAL chart colours
------------	--



BASE REFERENCES (Units in mm)

Model	Fastening	Arm length (L)	D	Finish	Offer codes	Order code
BM1 without gear holder, lateral fastening, Ø60	Lateral at 5°	1,300	Ø60	GY9006	BM1_W1300_L05_D60_PCF_GY9006	5-533125
	Lateral at 5°	1,300	Ø60	GY9007	BM1_W1300_L05_D60_PCF_GY9007	5-533080
	Lateral at 5°	1,300	Ø60	GN6005	BM1_W1300_L05_D60_PCF_GN6005	50-33364
	Lateral at 5°	1,300	Ø60	DGCLAS	BM1_W1300_L05_D60_PCF_DGCLAS	50-33365
	Lateral at 5°	1,300	Ø60	RD3004	BM1_W1300_L05_D60_PCF_RD3004	5-533065
	Lateral at 5°	1,300	Ø60	GY7016	BM1_W1300_L05_D60_PCF_GY7016	5-533073
BM1 without gear holder, suspended fastening, 3/4 "G	Suspended	1,150	3/4 "G	DGCLAS	BM1_W1150_H_3/4G_PCF_DGCLAS	5-531655
	Suspended	1,150	3/4 "G	GY9007	BM1_W1150_H_3/4G_PCF_GY9007	5-531789
	Suspended	1,150	3/4 "G	GY9006	BM1_W1150_H_3/4G_PCF_GY9006	5-531617
	Suspended	1,150	3/4 "G	BL5026	BM1_W1150_H_3/4G_PCF_BL5026	5-531685

BM13

Ornamental wall arm



FASTENING SYSTEMS

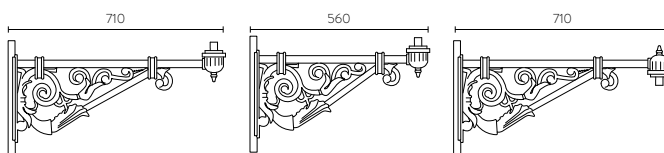
Installation	Wall arm for sustained or suspended luminaires according to reference.
Notes	Appropriate for BERLIN, PRAGA M PRO and PRAGA M BASIC models.

MATERIALS

Arm	Die-cast aluminium and galvanised steel tube.
------------	---

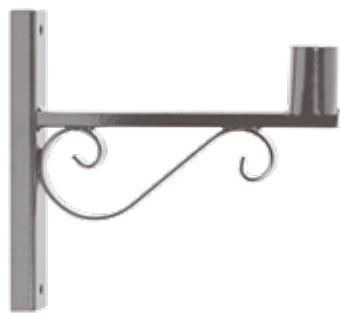
FINISHES

Arm	Standard paint: BK9005, BKCLAS, BKTECH Simon Colours RAL chart colours
------------	--

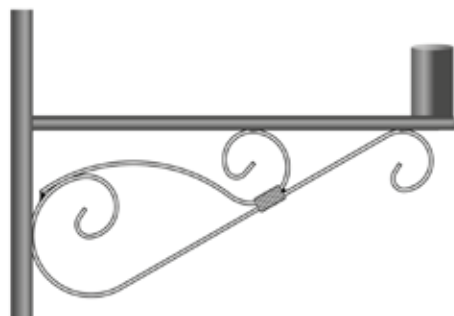


BASE REFERENCES (Units in mm)

Model	Fastening	Arm length (L)	Finish	Offer codes	Order code	
BM13 3/4 "G post-top	Post-top	560	3/4 "G	BK9005	BM13W_560_P_3/4G_PCF_BK9005	50-33480
	Post-top	710	3/4 "G	BK9005	BM13W_710_P_3/4G_PCF_BK9005	50-33484
	Post-top	560	3/4 "G	BKCLAS	BM13W_560_P_3/4G_PCF_BKCLAS	50-33490
	Post-top	710	3/4 "G	BKCLAS	BM13W_710_P_3/4G_PCF_BKCLAS	50-33494
	Post-top	560	3/4 "G	BKTECH	BM13W_560_P_3/4G_PCF_BKTECH	50-33481
	Post-top	710	3/4 "G	BKTECH	BM13W_710_P_3/4G_PCF_BKTECH	5-533197
BM13 suspended 3/4 "G	Suspended	710	3/4 "G	BKCLAS	BM13W_710_H_3/4G_PCF_BKCLAS	50-33496
	Suspended	710	3/4 "G	BK9005	BM13W_710_H_3/4G_PCF_BK9005	50-33486



BM10 Type 1



BM10 Type 2

BM10

Wall arm, decorative urban

FASTENING SYSTEMS

Installation	Wall arm for suspended luminaires.
Notes	Appropriate for PRAGA and PRAGA S FC6 models.

MATERIALS

Arm	Steel sheet.
------------	--------------

FINISHES

Arm	Hot dip galvanised and painted. Standard BK9005 Simon Colours RAL chart colours
------------	--

BASE REFERENCES (Units in mm)

Model	Fastening	Arm length (L)	D	Finish	Offer codes	Order code
BM10 type 1	Post-top	300	Ø48	BK9005	BM10W_300_P___D48_T1___PCF___BK9005	50-33916
	Post-top	500	Ø48	BK9005	BM10W_500_P___D48_T1___PCF___BK9005	50-33102
BM10 type 2	Post-top	700	3/4 "G	BK9005	BM10W_700_P___3/4G_T2___PCF___BK9005	5-531573
	Post-top	500	Ø60	BK9005	BM10W_500_P___D60_T2___PCF___BK9005	5-531468



BM11

Ornamental wall arm

FASTENING SYSTEMS

Installation Wall arm for suspended luminaires.
Notes Appropriate for spherical luminaires up to Ø 500.

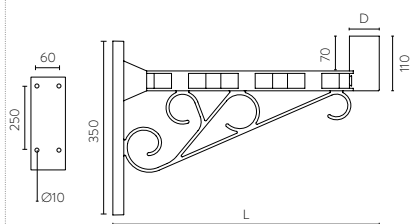
MATERIALS

Arm Technical polymer.

FINISHES

Arm Standard BK9005

BASE REFERENCES (Units in mm)



Model	Fastening	Arm length (L)	D	Finish	Offer codes	Order code
BM11 post-top fastening	Post-top	500	60	BK9005	BM11W_500_P____D60____PCF____BK9005	50-33925



BM2

Ornamental wall arm

FASTENING SYSTEMS

Installation	Wall arm for lateral fastening luminaires Ø 60 mm
Notes	5° angle.

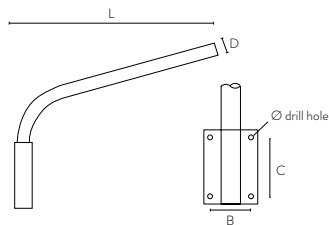
MATERIALS

Arm	Steel structural tube
------------	-----------------------

FINISHES

Arm	Hot dip galvanised. Simon Colours RAL chart colours
------------	---

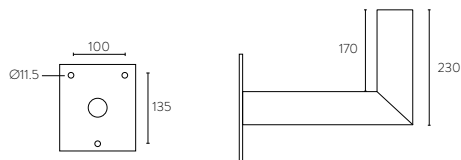
BASE REFERENCES (Units in mm)



Model	Fastening	Arm length (L)	D (Ø)	drill hole (Ø)	B	C	Finish	Offer codes	Order code
BM2	Lateral at 5°	750	60	18	136	220	GV	BM2_W_750_L05_D60____PCF____GV____	5-531907
	Lateral at 5°	1000	60	18	136	220	GV	BM2_W_1000_L05_D60____PCF____GV____	5-531869
	Lateral at 5°	1500	60	18	136	220	GV	BM2_W_1500_L05_D60____PCF____GV____	5-531915
	Lateral at 5°	2000	60	18	136	220	GV	BM2_W_2000_L05_D60____PCF____GV____	5-531920

BM5

Functional wall arm



FASTENING SYSTEMS

Installation Wall arm for suspended luminaires.

MATERIALS

Arm Steel structural tube.

FINISHES

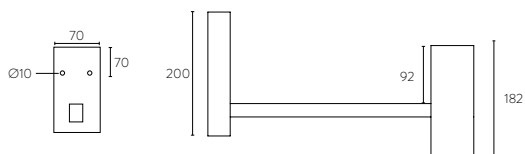
Arm Hot dip galvanised.
Simon Colours
RAL chart colours

BASE REFERENCES (Units in mm)

Model	Fastening	Arm length (L)	D	Finish	Offer codes	Order code
BM5	Post-top	270	Ø60	GV	BM5_W_270_P___D60___PCF___GV__	50-33321
	Post-top	500	Ø60	GV	BM5_W_500_P___D60___PCF___GV__	50-33341
	Post-top	270	3/4 "G	GV	BM5_W_270_P___3/4G___PCF___GV__	50-33323
	Post-top	500	3/4 "G	GV	BM5_W_500_P___3/4G___PCF___GV__	50-33343

BM9

Ornamental wall arm.



FASTENING SYSTEMS

Installation Wall arm for suspended luminaires.
Notes Appropriate for spherical luminaires up to Ø 550 mm

MATERIALS

Arm Steel structural tube.

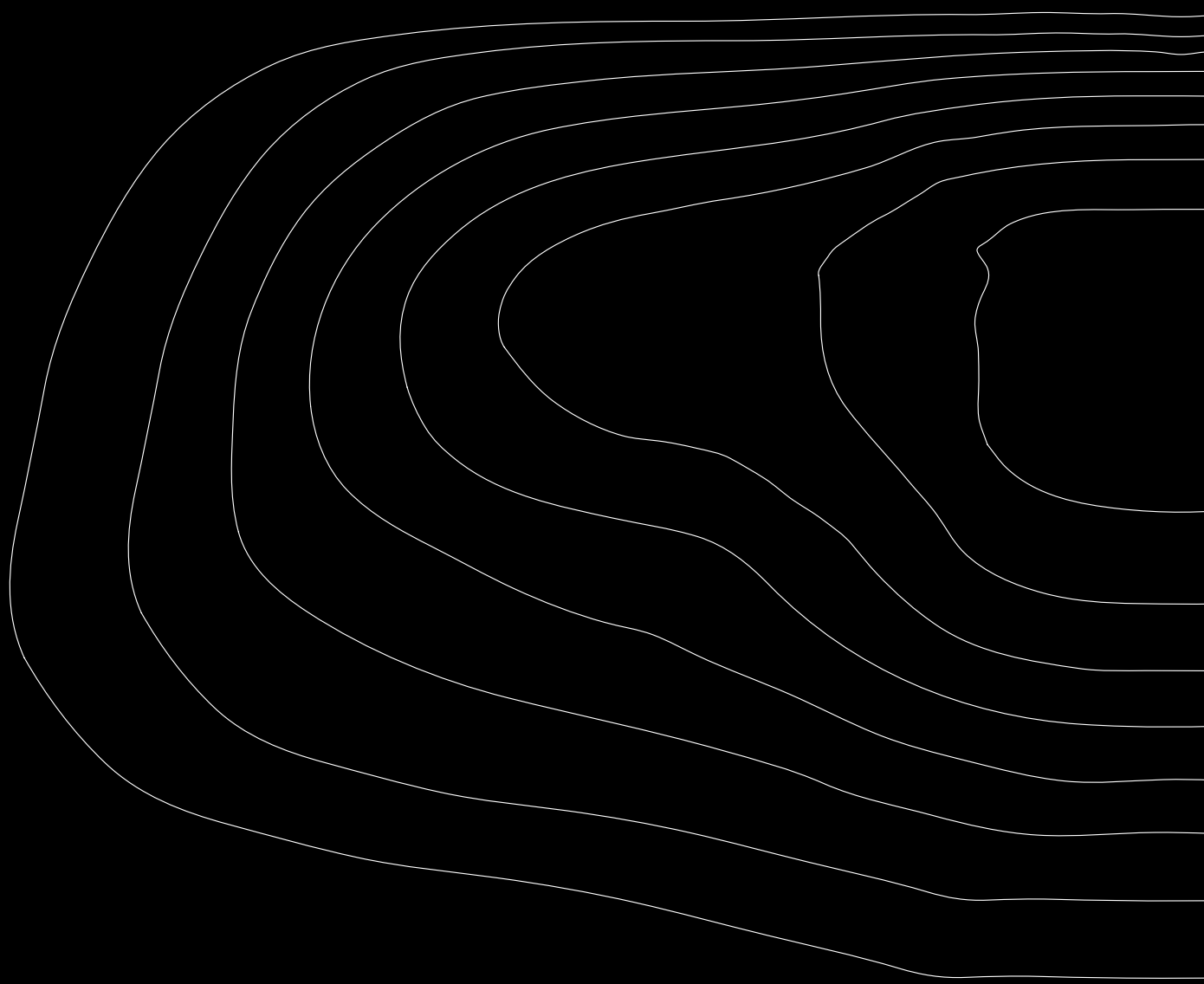
FINISHES

Arm Hot dip galvanised and painted in BK9005.
Simon Colours
RAL chart colours

BASE REFERENCES (Units in mm)

Model	Fastening	Arm length (L)	D	Finish	Offer codes	Order code
BM9	Post-top	500	Ø60	BK9005	BM9_W_500_P___D60___PCF___BK9005	50-33501

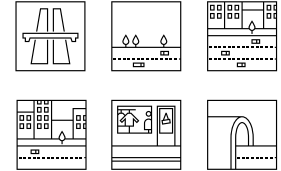
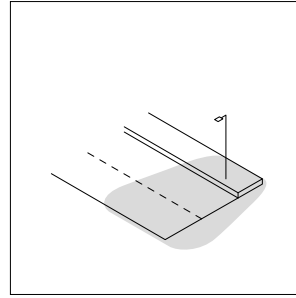
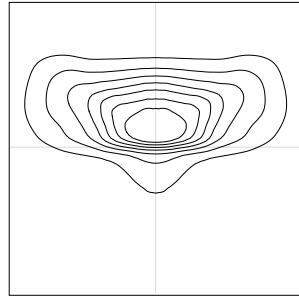
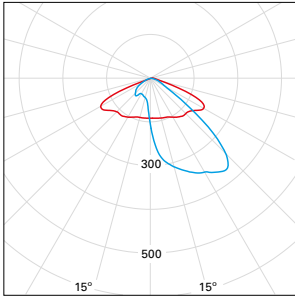
TECHNICAL INFORMATION



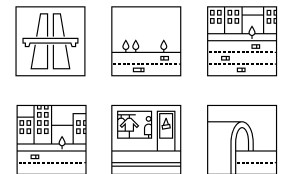
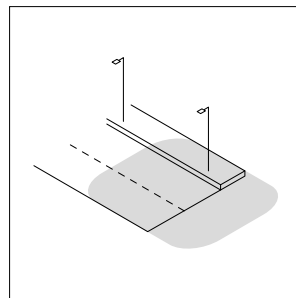
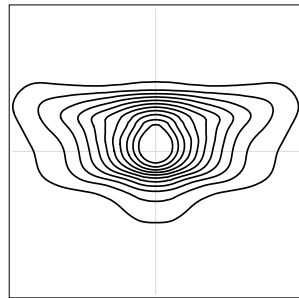
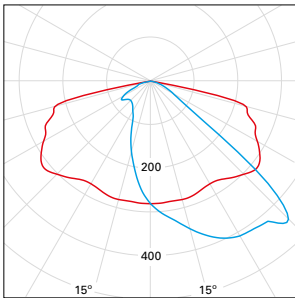
PHOTOMETRICS

ISTANIUM^{LED}®

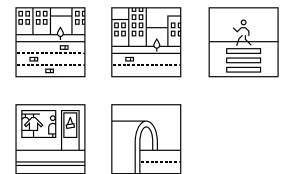
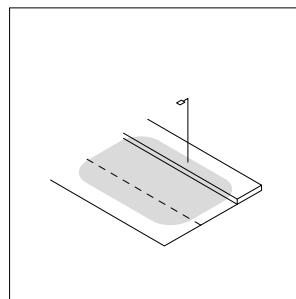
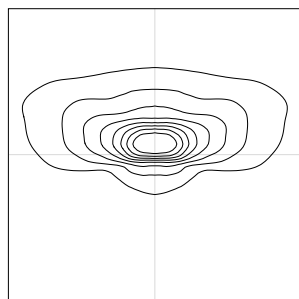
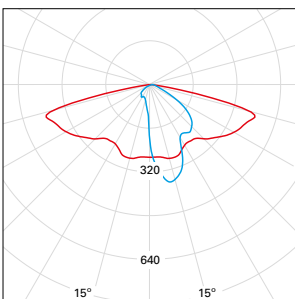
RG OPTICS - G TYPE FRONT ROAD LIGHT



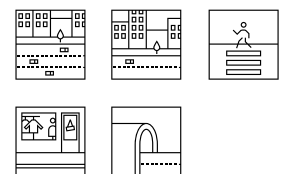
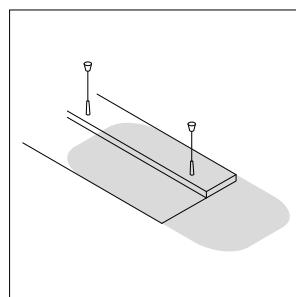
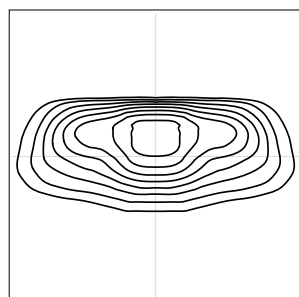
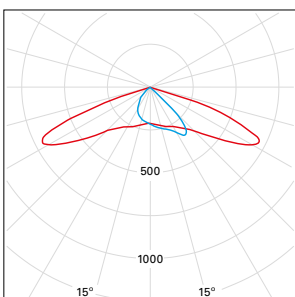
RJ OPTICS - J TYPE FRONT ROAD LIGHT



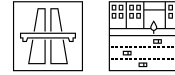
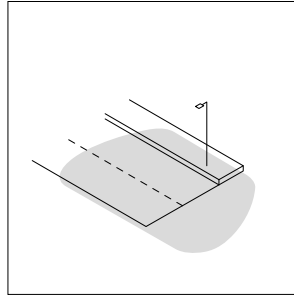
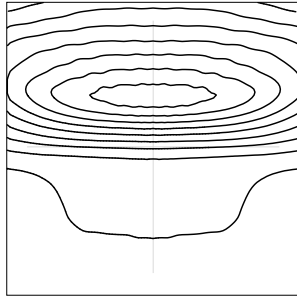
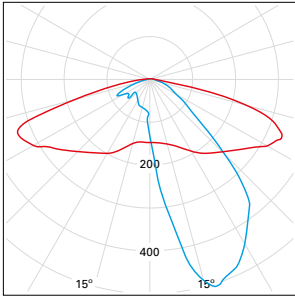
RA OPTICS - A TYPE EXTENDED ROAD LIGHT



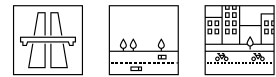
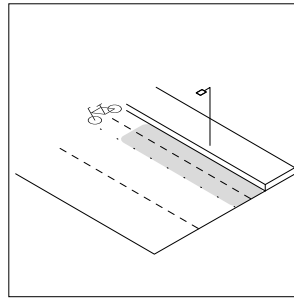
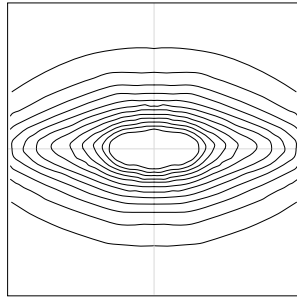
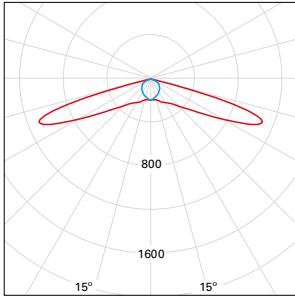
RE OPTICS - EXTENDED ROAD LIGHT



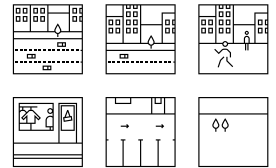
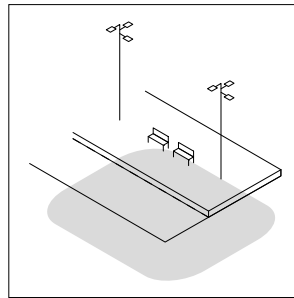
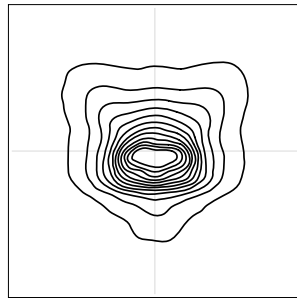
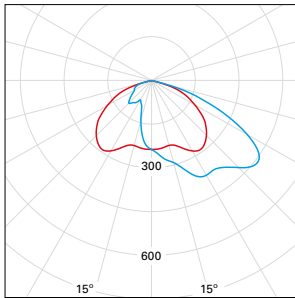
RM OPTICS



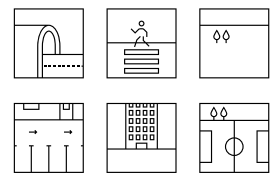
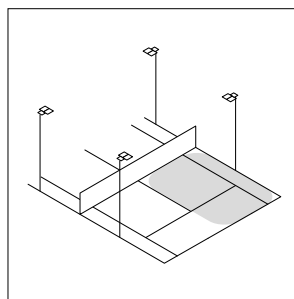
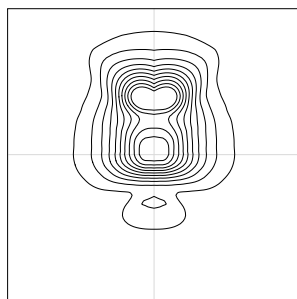
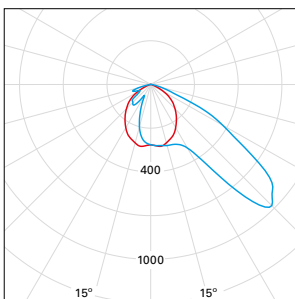
E1 OPTICS - 1 TYPE ELLIPTICAL ROAD LIGHT



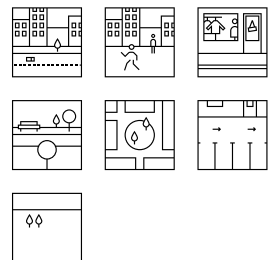
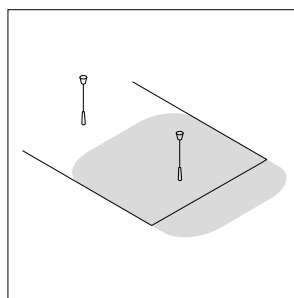
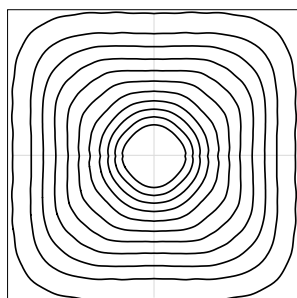
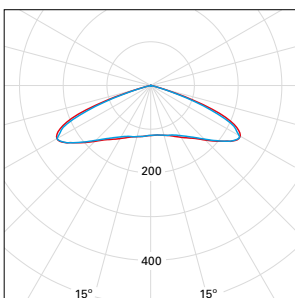
AE OPTICS - E TYPE ASYMMETRIC



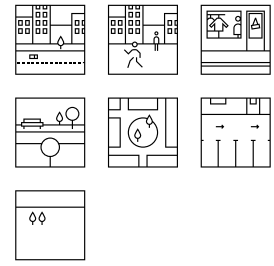
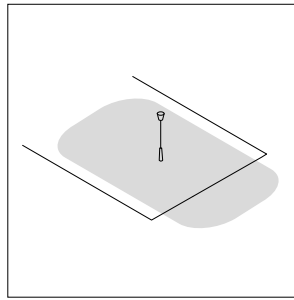
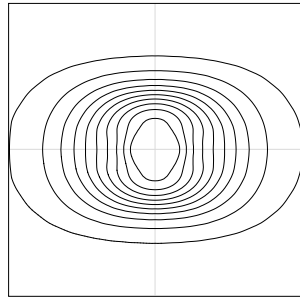
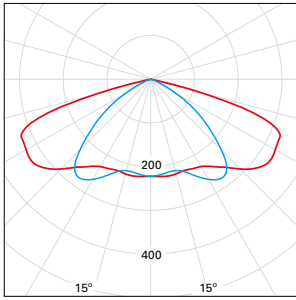
AG OPTICS - G TYPE ASYMMETRIC



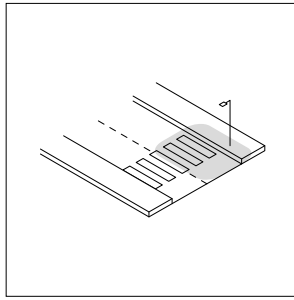
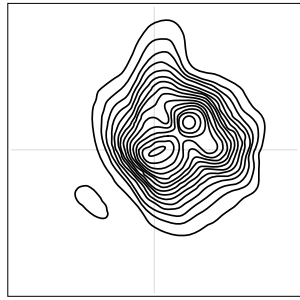
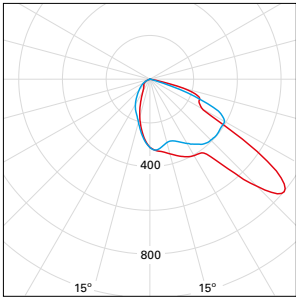
SA OPTICS - A TYPE SYMMETRIC



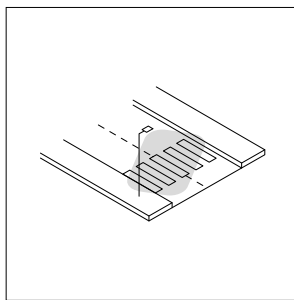
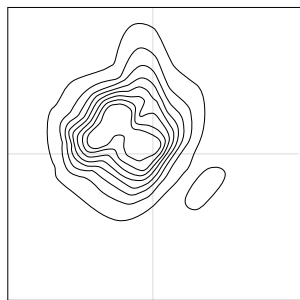
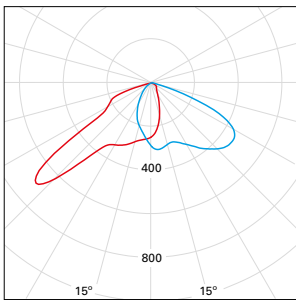
SB OPTICS - OVERHEAD TUNNEL



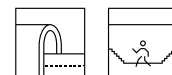
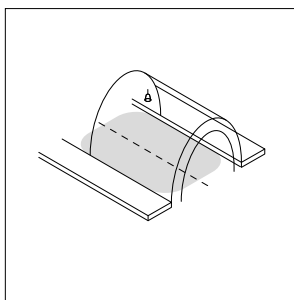
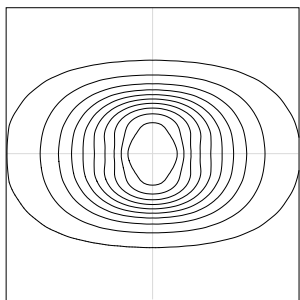
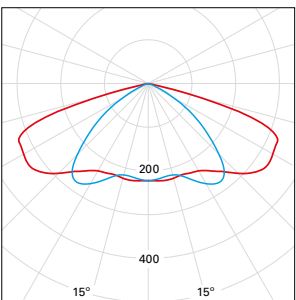
TRF OPTICS - TRAFIC



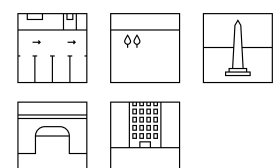
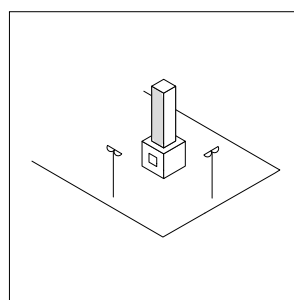
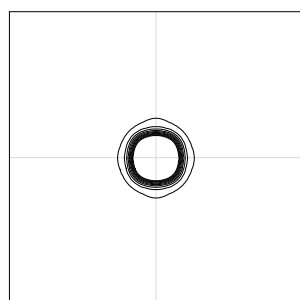
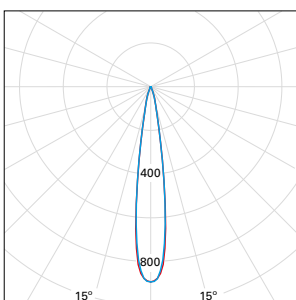
TRI OPTICS - REVERSE TRAFIC



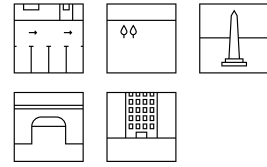
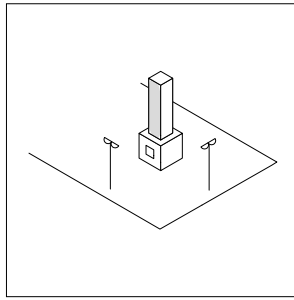
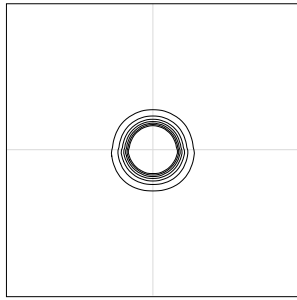
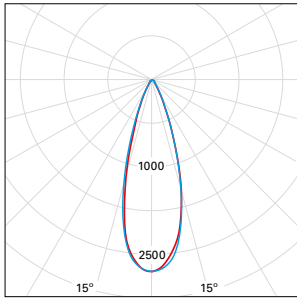
TA OPTICS - OVERHEAD TUNNEL



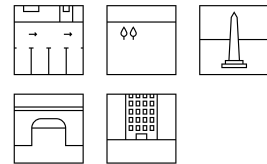
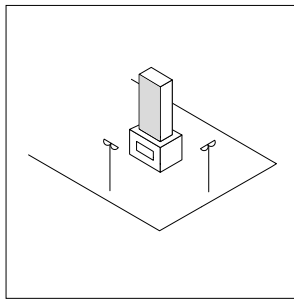
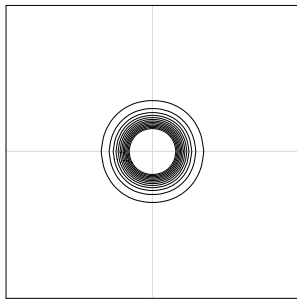
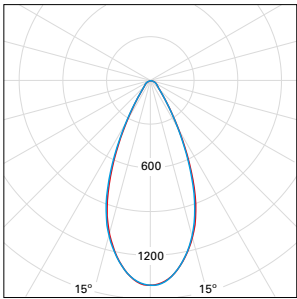
CIN OPTICS - INTENSIVE TAPERED



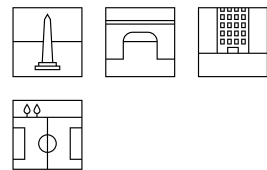
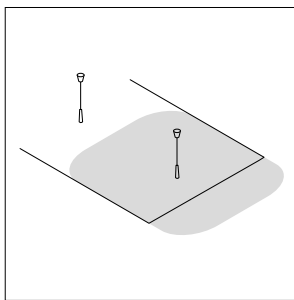
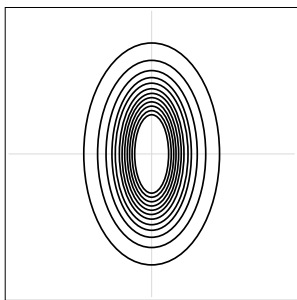
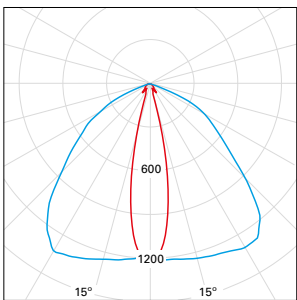
CME OPTICS - E TYPE MEDIUM TAPERED



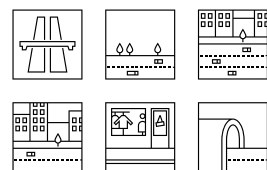
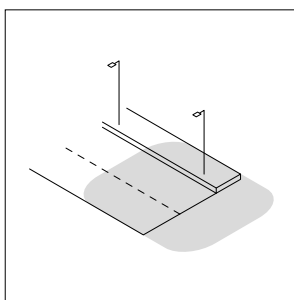
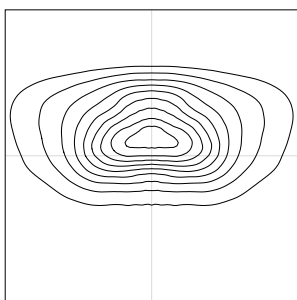
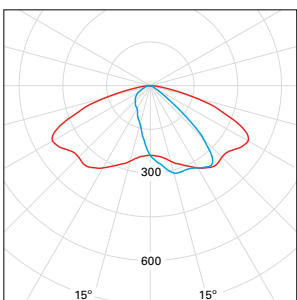
CMM OPTICS - M TYPE MEDIUM TAPERED



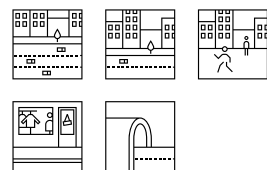
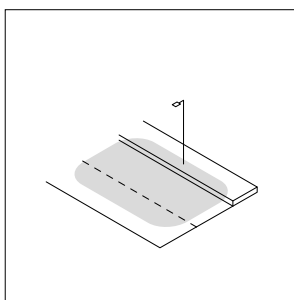
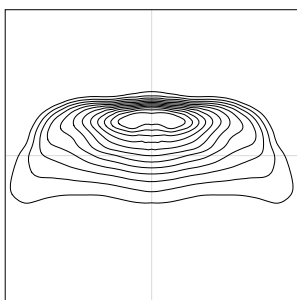
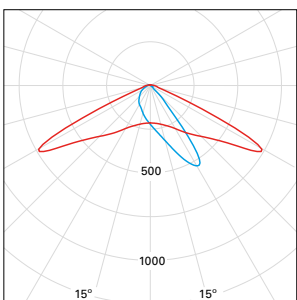
EW OPTICS - WIDE ELLIPTICAL



RF OPTICS



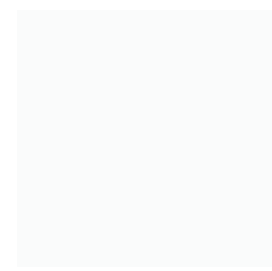
RW OPTICS



SIMON FINISHES

SIMON FINISHES*

Standard Colours:



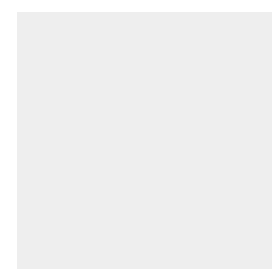
WHTECH



BKTECH



GY9007



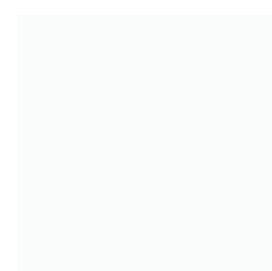
WHDUST



BKGLOS



GYDECO



WHGLOS



BKONIX

Organic Colours:



MARINE



TERRAN



GARDEN

OTHERS

RAL chart upon request.
 SIMON Colours: BKCLAS, DGCLAS,
 CGCLAS, WH9003, WH9010, GY7035,
 GY9006, GYTECH, GY7016, BK9005,
 RD3005, RD3011, RD3000, BW8017,
 ,OXICOR, BE1015, BL5003, BL5015,
 BL5024, GN6009, GN6005, GN6025

* For this type of graphics, bright colour tone is not guaranteed, it can vary due to the calibration of your monitor or printer. This table is useful for getting a general idea.

SYMBOLS

TECHNICAL SYMBOLS



Class I



Class II



Class III



Weight



European Conformity



European Product



ENEC+



High Impact Resistance



ISO 14001



UNE 170001-23

IK Impact resistance index

IP Protection rating:

FIRST NUMBER

- 0 Not protected against penetration by solid elements
- 1 Protected against solid elements over 50 mm
- 2 Protected against solid elements over 12 mm
- 3 Protected against solid elements over 2.5 mm
- 4 Protected against solid elements over 1 mm
- 5 Protected against dust
- 6 Dust tight

SECOND NUMBER

- 0 Not protected against water penetration
- 1 Protected against drops of vertically falling water
- 2 Protected against water falling at maximum 15°
- 3 Protected against rain water
- 4 Protected against water splashing
- 5 Protected against water streams
- 6 Protected against water streams of 1 kg/cm²
- 7 Protected against immersion
- 8 Protected against prolonged immersion

AREAS OF APPLICATION



Motorways and dual carriageways



Roads



Industrial Spaces



Parking areas



Avenues



Streets



Pedestrian streets



Commercial areas



Parks / Gardens



Squares



Cycle path



Zebra crossings



Tunnels



Underpasses



Monuments



Bridges



Façades



Sports facilities



Large areas



Submersible



Signalling



Roundabouts / Intersections

UPWARD LIGHT OUTPUT RATIO (INST. ULOR)

- E1 < 1%
- E2 1% - 5%
- E3 5% - 15%
- E4 15% - 25%

To control light flux emissions in undesired directions, and keep our luminaires within environmentally-friendly standards, SIMON develops lighting components according to maximum efficiency and minimum light pollution criteria. SIMON also states the inst. ULOR (Upward Light Output Ratio) of its luminaires.

DIMMING

ISTANIUM[®] LED[®]

ISTANIUM[®] LED LUMINAIRES

SUPPLIED BY PUBLIC LIGHTING NETWORKS

In these luminaires, the light source is the Istanium[®] LED modules, which are supplied by gear. They work with a nominal line voltage of 230 VAC 50/60Hz, and a defect surge protection of 4 kV/ 2kA. They are extremely efficient given that they have low insertion losses (from 1% to 3% fully charged).

ISTANIUM[®] LED 1N LUMINAIRES

(without dimming)

The electronic control gear delivers 100% of the power without a dimming option. If there is any fluctuation in the device's line voltage, the supply current of the Istanium[®] LED modules compensates to maintain the light flux (input voltage from 208 to 277 VAC). Likewise, if the electrical cabinet has a cabinet amplitude dimming device, the device will not dim the lamp (requires an Istanium[®] LED luminaire with CAD dimming).

ISTANIUM[®] LED 2N+ LUMINAIRES

(dimming with control line)

The electronic control gear has an input that connects it to the electrical cabinet. When the cabinet activates the voltage on the control line, the device delivers 100% of the nominal power to the Istanium[®] LED module. When the cabinet disconnects the control line (0 volts), the device reduces the power by half.

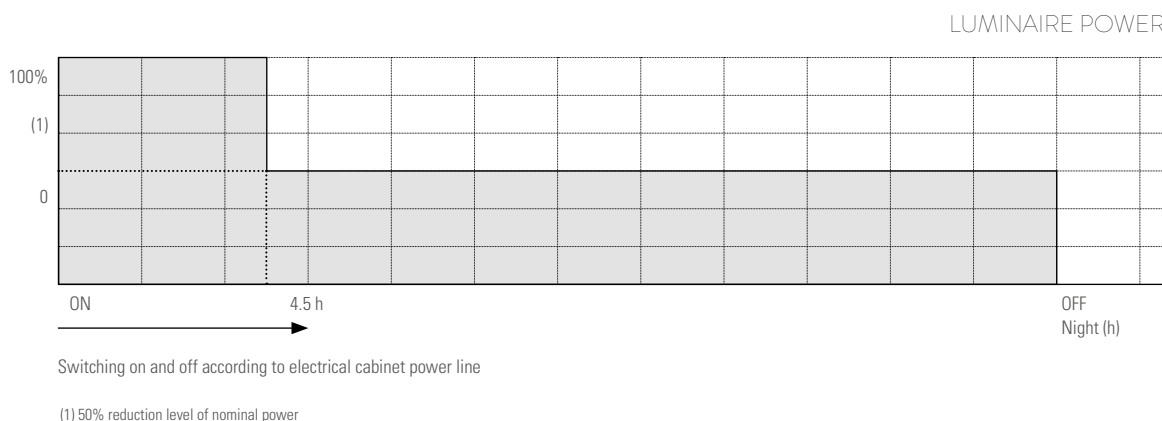


(1) 50% reduction level of nominal power

ISTANIUM® LED 2N- LUMINAIRES

(dimming without control line; self-dimming)

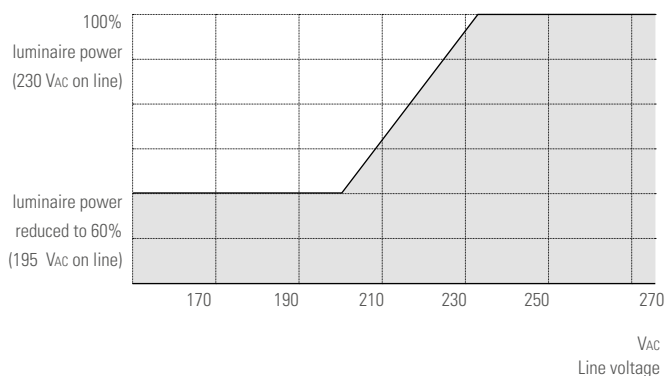
The luminaire's electronic control gear has a programmed timer that reduces the power by half 4.5 hours after it is switched on.



ISTANIUM® LED CAD LUMINAIRES

(cabinet amplitude dimming)

The luminaire's electronic control gear adapts to the supply current of the Istanium® LED modules, in proportion to the line input voltage. The amplitude dimming electrical cabinet must have a device that regulates the line voltage to reduce the light level of the luminaire. This dimming type is ideal to take advantage of installations with existing cabinet equipment installations.



ISTANIUM® LED DALI LUMINAIRES

(DALI-protocol regulated dimming)

The electronic control gear delivers the output power to the Istanium® LED modules according to the level indicated by the DALI signal (normally delivered by a telemanagement device)

ISTANIUM® LED 1-10 LUMINAIRES

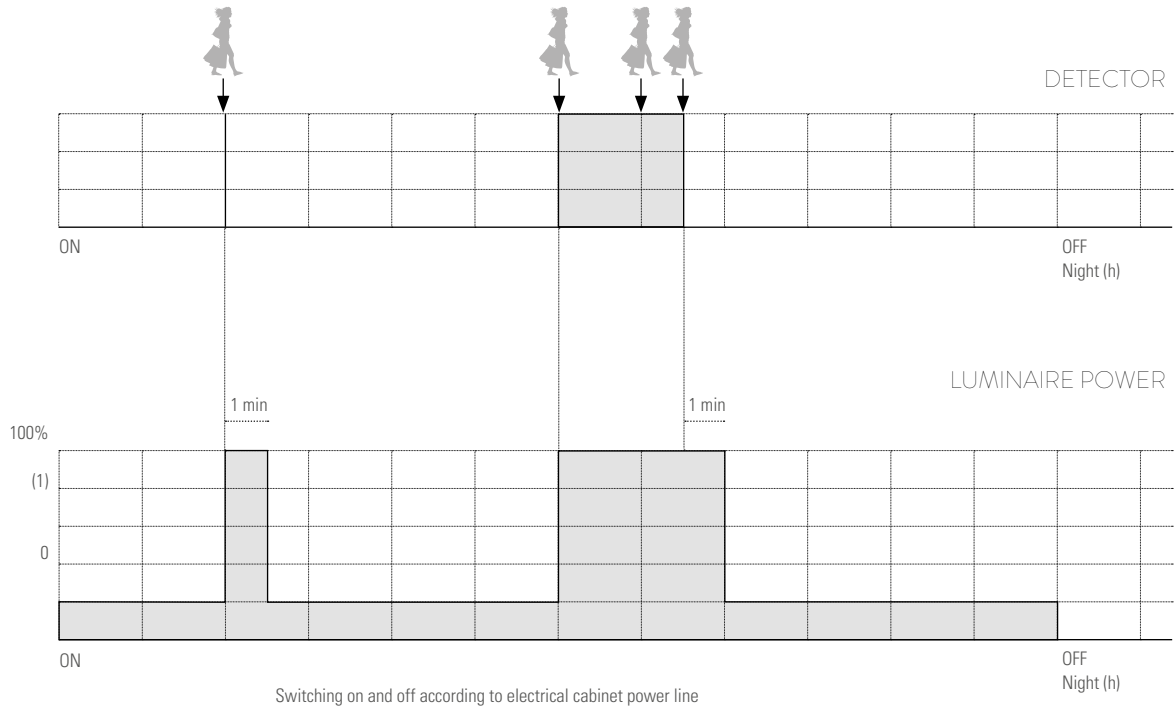
(1-10 protocol regulated dimming)

The electronic control gear delivers the output power to the Istanium® LED modules according to the level indicated by the 1-10 signal (normally delivered by a telemanagement device)

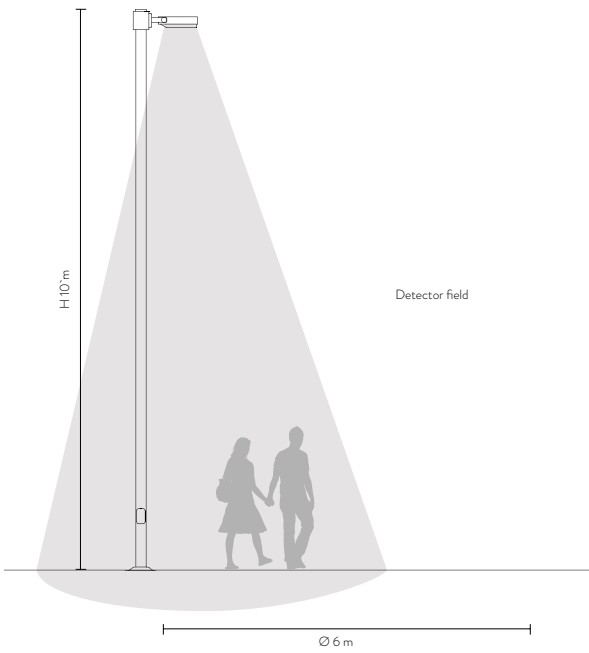
ISTANIUM® LED MOV LUMINAIRES

(motion detection dimming)

The luminaire has an integrated pedestrian detector that turns on the luminaire at maximum nominal power when it detects a person. This level is maintained for 1 minute. After this period, the luminaire reduces its light flux to 20% consumption of its nominal power.



(1) 20% reduction level of nominal power



The recommended luminaire height is 6 to 10 metres.

The detection parameters may vary depending on the changes made to the detectors.

The sensor settings are blocked for security reasons, so they cannot be manipulated.

ISTANIUM® LED LUMINAIRES

FOR SOLAR LIGHTING POINTS

In these luminaires, the light source is the Istanium® LED modules, the electronic control gear supplied by the solar lighting point battery with direct current.

Luminaire switching on and off is defined by the solar lighting point controller (generally between sunrise and sunset, but the maximum time can be limited by the controller).

ISTANIUM® LED SOLAR 1N LUMINAIRES

(without dimming)

The electronic control gear delivers 100% of the power without a dimming option.

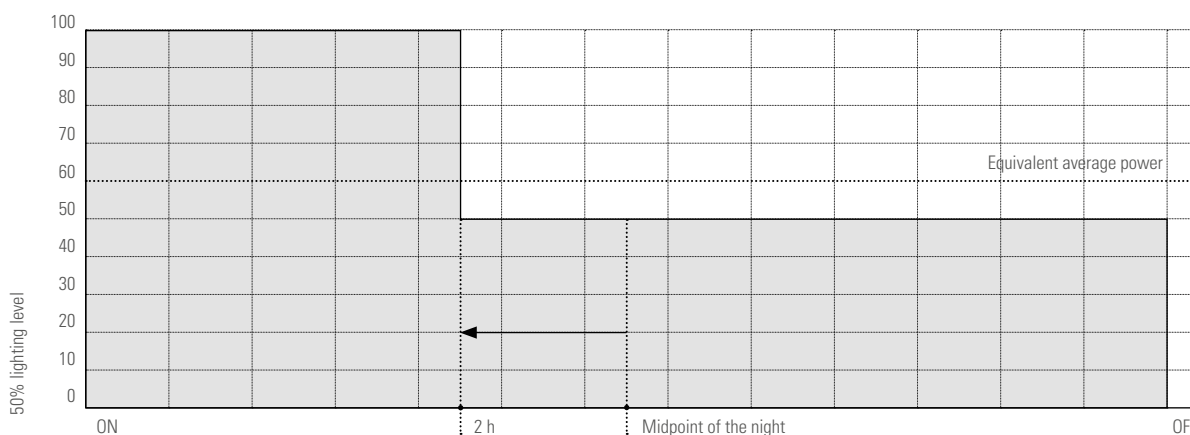
LEDs (mod.)	High flux (700mA)		High balance (530mA)		High Efficiency (350mA)	
	Power	Solar Runtime	Power	Solar Runtime	Power	Solar Runtime
48 LEDs (4 mod)	-	-	-	-	49 W	Extended Battery Life
32 LEDs (3 mod)	-	-	58 W	Extended Battery Life	37 W	Extended Battery Life
24 LEDs (2 mod)	54 W	Extended Battery Life	39 W	Extended Battery Life	25 W	Average Battery Life
12 LEDs (1 mod)	27 W	Average Battery Life	20 W	Basic Battery Life	13 W	Average Battery Life

The recommended solar unit depends on the latitude where the solar lighting point is installed and the maximum on time desired (maximum all night).

ISTANIUM® LED SOLAR 2N- LUMINAIRES

(stand-alone dimming)

The low loss electronic driver supplies 100% of nominal power when the luminaire is switched on. 2 hours before the midpoint of the night, it reduces the lighting level by 50% until the luminaire switches off.



LEDs (mod.)	HIGH FLUX (700mA)		HIGH BALANCE (530mA)		HIGH EFFICIENCY (350mA)	
	Power	Solar Runtime	Power	Solar Runtime	Power	Solar Runtime
48 LEDs (4 mod)	-	-	-	-	49 W	32 W
32 LEDs (3 mod)	-	-	58 W	38 W	37 W	24 W
24 LEDs (2 mod)	54 W	36 W	39 W	26 W	25 W	16 W
12 LEDs (1 mod)	27 W	18 W	20 W	13 W	13 W	9 W

We can estimate a 33% increase in the solar lighting points' runtime.



www.simonelectric.com



SIMON LIGHTING, S.A.U.

Diputación, 390-392
08013 Barcelona
Tel. 651 761 336

**Technical Customer
Service**

Tel. 651 761 346
E-mail: sat@simon.es

Projects Department

Tel. 651 761 346
E-mail: proyectos@simon.es

Customer Service

Tel. 651 761 314