

PRAGA

M PRO / M BASIC

ISTANIUM®

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



Streets



Pedestrian streets



Commercial areas



Parks / gardens



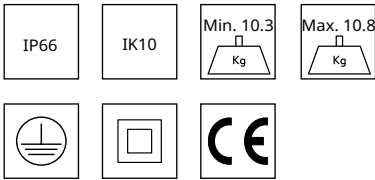
Squares



PRAGA M PRO

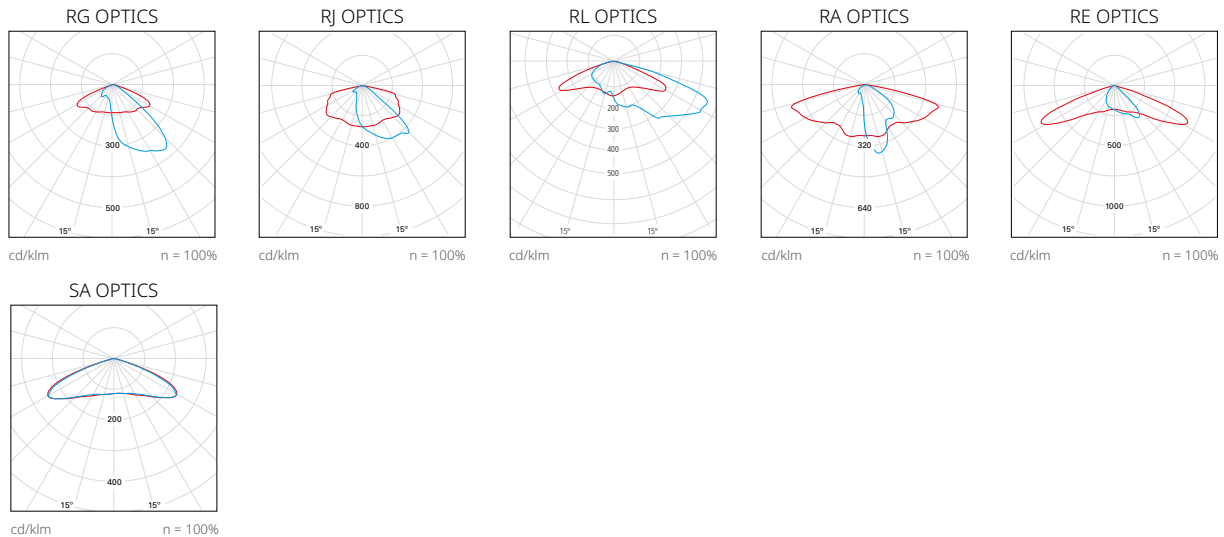
ISTANIUM[®] LED

AMBIENT PERIOD 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 (ULOR):
 <2.5% with flat transparent tempered glass diffuser
 <5% with flat four-sided transparent PMMA diffuser
 <15% with flat four-sided opal PMMA diffuser
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h

* Upon request ** Value may change depending on the optics



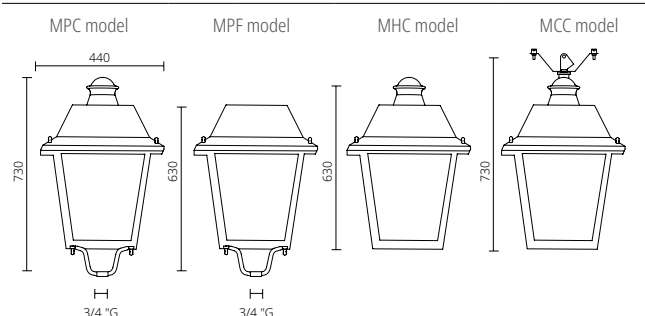
— C0 - C180 — C90 - C270

Rear hemisphere flux control visors available for RJ, RL, RE and SA optics (see page 488 for more information).

Check other photometric distributions.

Simon **PRAGA LED** ambient period luminaire, size M, PRO model, in 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 **IK08** impact resistance rating. No pre-wiring. Option of 5 m wiring. Possibility of mounting up to eleven multi-array optics. Possibility of four colour temperatures in white light, as well as PCA (Phosphor Converted Amber) for specially protected areas. Service life of LED **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 (**ULOR**) less than **1%** for models without four-sided diffusers, Upward Light Output Ratio (**ULOR**) of less than **5%** for flat four-sided transparent diffuser and Upward Light Output Ratio (**ULOR**) of less than **15%** for flat four-sided opal diffuser. With **Class I** and **Class II** electronic control gear with 230 V_{AC} / 50-60 Hz supply voltage and **Class III** with 12/24 VDC 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-, 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 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. 10.8 kg Min. 10.3 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	Painted in BKCLAS colour (Standard Paint) Simon Colours (Standard Paint / Seafrent Paint) RAL chart colours (Standard Paint / Seafrent Paint)
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ELECTRICAL PARAMETERS* AND CONNECTIVITY

Temp.	-20 °C... +35 °C			
Dimming**	2N- Without control line Dxxx Without custom programmed 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			
	Possibility of activating the CLO function, which allows the depreciation of the light emitted by the LEDs to be compensated by gradually increasing the supply current to them.			
	Luminaires supplied by electrical grid		Luminaires supplied by solar lighting point	
Supply voltage	220-240 V _{AC}		12/24 V _{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	
Optical group power by model***	12 LEDs	24 LEDs	36 LEDs	48 LEDs
Supply current	1 module	2 module	3 module	4 module
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 PRAGA M PRO LUMINAIRE

Model	Diffuser	Wire	Optics	Colour Temp.	Optical group power	Team	Dimming	Protection	Finish	Description
PRGMPP										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 fastening, tapered cover
PRGMCC										Simon PRAGA M PRO Istanium® LED, size M, suspended 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
			RL_							L type front road light optics
			RA_							A Type Extended 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
				<input type="radio"/> XDL						Extra warm daylight – 2,200 K
					_12W350					12 W 350 mA 1,670 lm to 3,000 K 12 LEDs
					_24W700					24 W 700 mA 3,190 lm to 3,000 K 12 LEDs
					_36W530					36 W 530 mA 4,720 lm to 3,000 K 24 LEDs
					_49W700					49 W 700 mA 6,030 lm to 3,000 K 24 LEDs
					_54W530					54 W 530 mA 7,030 lm to 3,000 K 36 LEDs
					_73W700					73 W 700 mA 8,850 lm to 3,000 K 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
						IA12_				Electronic control gear at 12/24 V _{dc} C3 (solar). Only admits up to 36W 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 1-10V input protocol
						DALI				Dimming through DALI input protocol
						DXXX				Dimming without control line (custom program)
							C1			Class I luminaire electrical protection
							C2			Class II luminaire electrical protection
							C3			Class III luminaire electrical protection
								BKCLAS		Standard finish in Simon Forged Sand Blasted Black
								xxxxxx		Finish in Simon colours
								xxxxxx		Finish in Simon RAL classic chart colours
								CMxxxx		Seafront Paint Finish

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	PRGMPFGTFORJ_WDL_12W350IA23_1N_C1BKCLAS	319-000762014
24 W	12	700 mA	PRGMPFGTFORJ_WDL_24W700IA23_1N_C1BKCLAS	319-000759014
36 W	24	530 mA	PRGMPFGTFORJ_WDL_36W530IA23_1N_C1BKCLAS	319-000597014
49 W	24	700 mA	PRGMPFGTFORJ_WDL_49W700IA23_1N_C1BKCLAS	319-000479014
54 W	36	530 mA	PRGMPFGTFORJ_WDL_54W530IA23_1N_C1BKCLAS	319-000761014
73 W	36	700 mA	PRGMPFGTFORJ_WDL_73W700IA23_1N_C1BKCLAS	319-000675014

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.



AMBIENT PERIOD

PRAGA M PRO

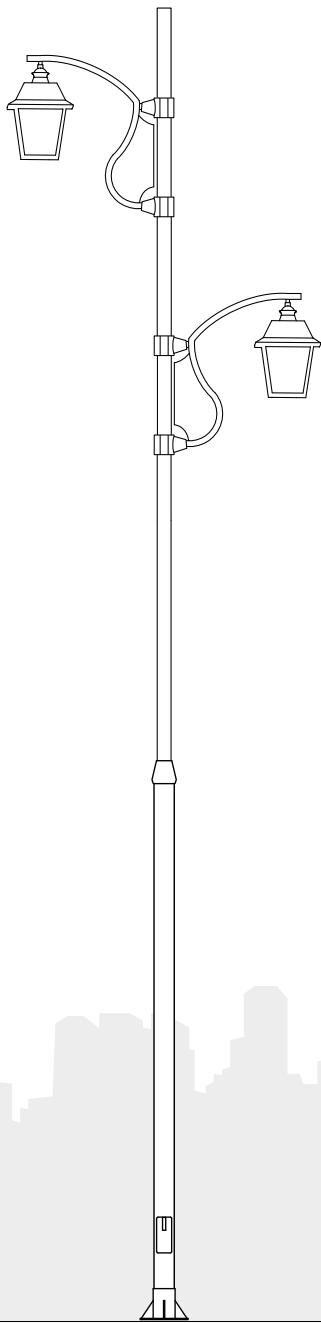
COMBINE YOUR PRAGA M PRO LUMINAIRE WITH:

DECORATIVE POLES:

AMBIENT PERIOD

PRAGA M PRO

8 M
7 M
6 M
5 M
4 M
3 M
2 M
1 M

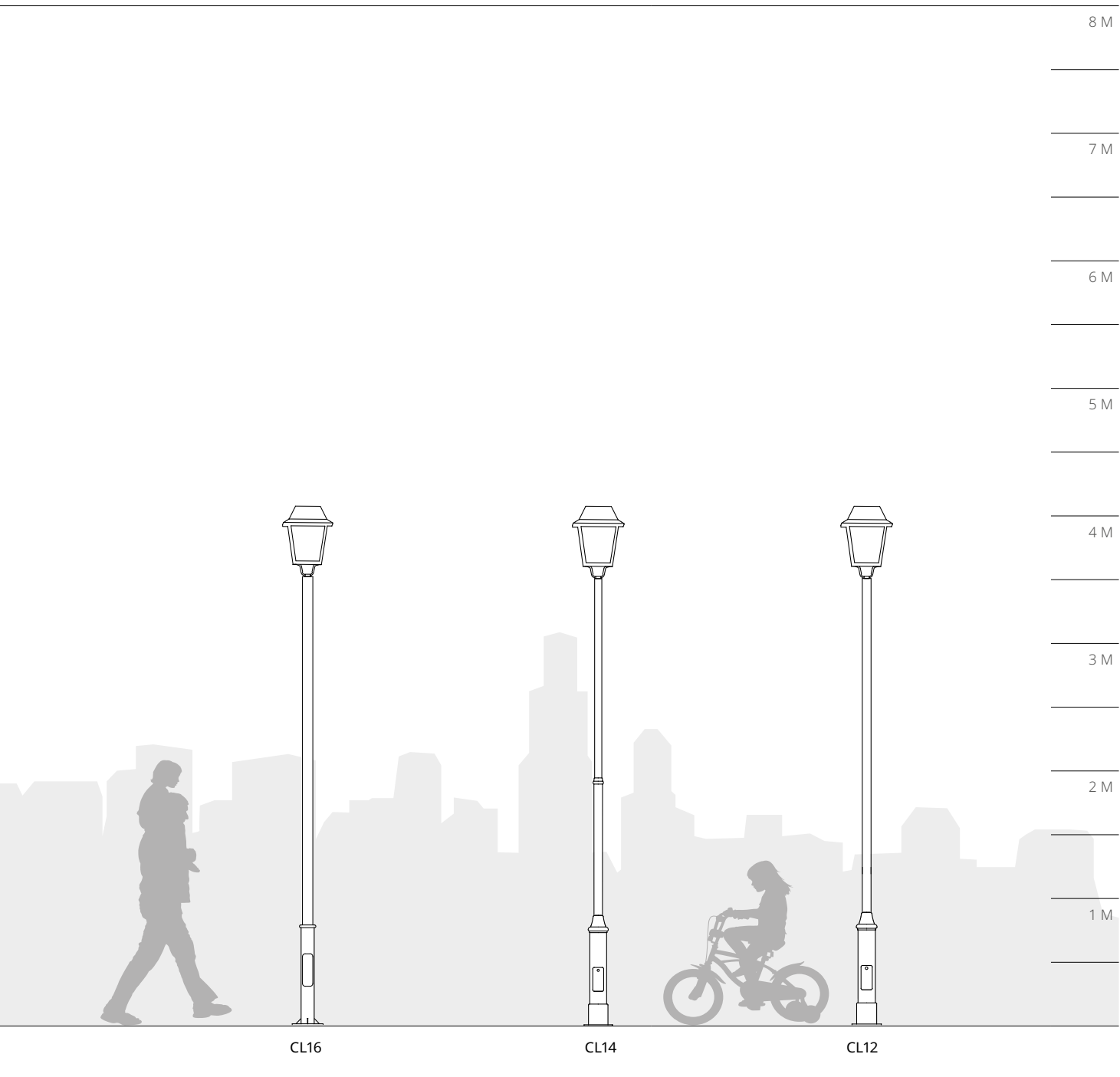


LINK CLASSIC



CL22





ACCESSORIES / REPLACEMENTS

Description	Order code
¾" 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



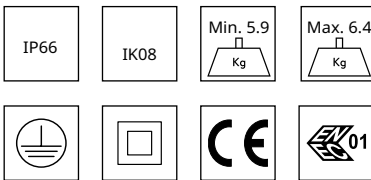
PRAGA M BASIC



PRAGA M BASIC

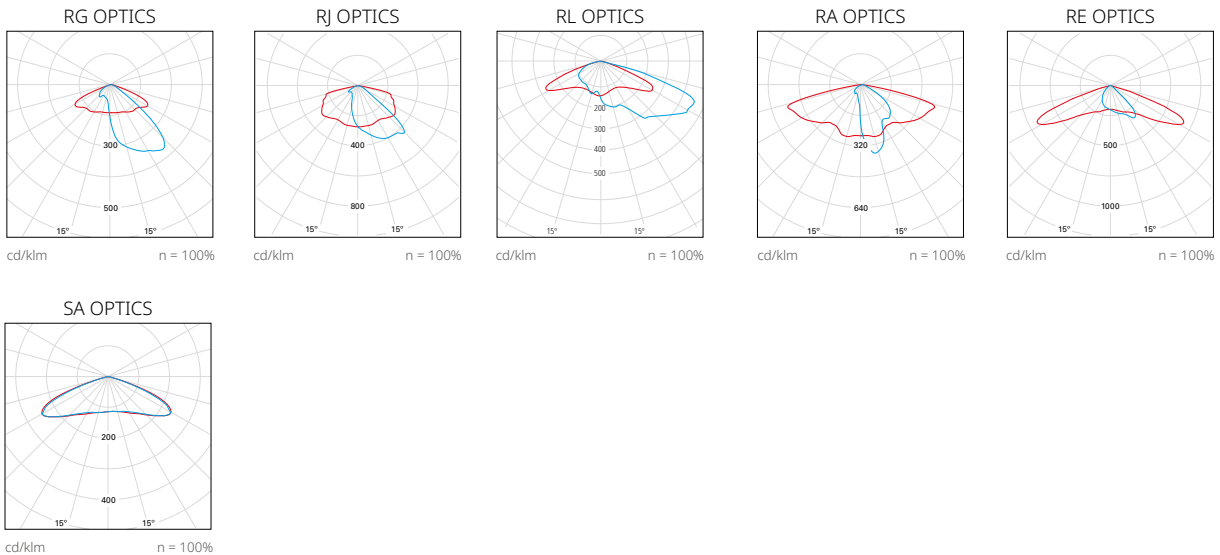
ISTANIUM [®]

AMBIENT PERIOD 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 (ULOR): <2.5 %**
 LED DURATION (L90 B10 AT T_a=25 °C AND T_j=95 °C): 100,000 h

* Upon request ** Value may change depending on the optics



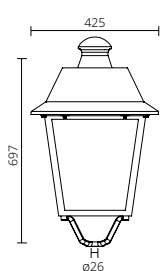
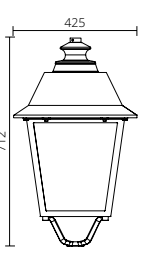
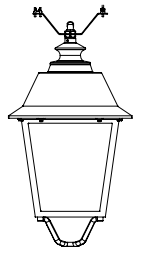
— C0 - C180 — C90 - C270

Rear hemisphere flux control visors available for RJ, RL, RE and SA optics (see page 488 for more information).

Check other photometric distributions.

Simon **PRAGA LED** classic luminaire, size M, BASIC model, in die-cast aluminium. Post-top fixation 3/4" G. Adaptation to Ø60 mm fastenings via an adapter. Tapered cover with trim. Internal refrigeration system through fins. Possibility of fitting an **upper Zhaga/NEMA** connector. 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 nine 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. Service life of LED **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 (**ULOR**) less than **2.5%**. With **Class I** and **Class II** electronic control gear with 230 V_{AC} / 50-60 Hz 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-, 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. Possibility of Simon and RAL finishes, as well as Seafront paint for corrosive environments with high durability in a **C5M** environment. Dimensions 425x698x425 mm. **ENEC** certified luminaire, compatible with **Zhaga-D4i**.

DIMENSIONS AND FASTENING SYSTEMS

MPB model	MHB model	MCB model
		
Post-top fastening	Fastening to 3/4" G x 50 mm threaded tube (MBP)	
Suspended fastening	Fastening to 3/4" G x 50 mm threaded tube (MHB)	
Catenary fastening	Fastening part with wire grip (MCB)	
Surface exposed to the wind	0.18 m ²	
Weight	Max. 6.4 kg Min. 5.9 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	Painted in BKTECH colour (Standard Paint) Simon Colours (Standard Paint / Seafront Paint) RAL chart colours (Standard Paint / Seafront Paint)
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ELECTRICAL PARAMETERS* AND CONNECTIVITY

Temp.	-20 °C... +35 °C
Dimming**	2N- Without control line Dxxx Without custom programmed 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
	Possibility of activating the CLO function, which allows the depreciation of the light emitted by the LEDs to be compensated by gradually increasing the supply current to them.
	Possibility of fitting a Zhaga / NEMA connector to the top of the luminaire according to Zhaga Consortium Book 18 for model MPB. The assembly of this connector entails disassembling the upper trim. Not valid for models MHB and MCB.

	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		
Optical group power by model***	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.	Optical group power	Team	Dimming	Protection	Finish	Description
PRGMPB										Simon PRAGA M BASIC Istanium® LED, size M, post-top fastening, flat cover
PRGMHB										Simon PRAGA M BASIC Istanium® LED, size M, ¾" G suspended fastening, tapered cover
PRGMCB										Simon PRAGA M BASIC Istanium® LED, size M, suspended catenary fastening, tapered 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
			RL_							L type front road light optics
			RA_							A Type Extended 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
				<input type="radio"/> XDL						Extra warm daylight - 2,200 K
					_12W350					12 W 350 mA 1,670 lm to 3,000 K 12 LEDs
					_24W700					24 W 700 mA 3,190 lm to 3,000 K 12 LEDs
					_36W530					36 W 530 mA 4,720 lm to 3,000 K 24 LEDs
					_49W700					49 W 700 mA 6,030 lm to 3,000 K 24 LEDs
					_54W530					54 W 530 mA 7,030 lm to 3,000 K 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 1-10V input protocol
						DALI				Dimming through DALI input protocol
						DXXX				Dimming without control line (custom program)
							C1			Class I luminaire electrical protection
							C2			Class II luminaire electrical protection
								BKTECH		Standard finish in Simon Technical Black
								xxxxxx		Finish in Simon colours
								xxxxxx		Finish in Simon RAL classic chart colours
								CMxxxx		Seafront Paint Finish

BASE REFERENCES

Power	No. of LEDs	Current	Configuration	Order code
12 W	12	350 mA	PRGMPBGTFORJ_WDL_12W350IA23_1N__C1BKTECH	341-000762015
24 W	12	700 mA	PRGMPBGTFORJ_WDL_24W700IA23_1N__C1BKTECH	341-000759015
36 W	24	530 mA	PRGMPBGTFORJ_WDL_36W530IA23_1N__C1BKTECH	341-000597015
49 W	24	700 mA	PRGMPBGTFORJ_WDL_49W700IA23_1N__C1BKTECH	341-000479015
54 W	36	530 mA	PRGMPBITFORJ_WDL_54W530IA23_1N__C1BKTECH	341-000761015

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.



AMBIENT PERIOD

PRAGA M BASIC

COMBINE YOUR PRAGA M BASIC LUMINAIRE WITH:

DECORATIVE POLES:

6 M

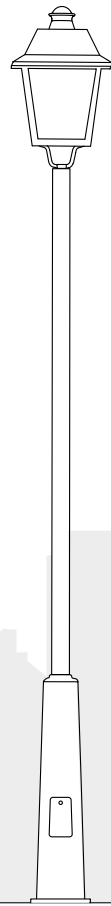
5 M

4 M

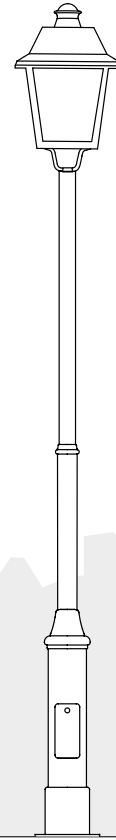
3 M

2 M

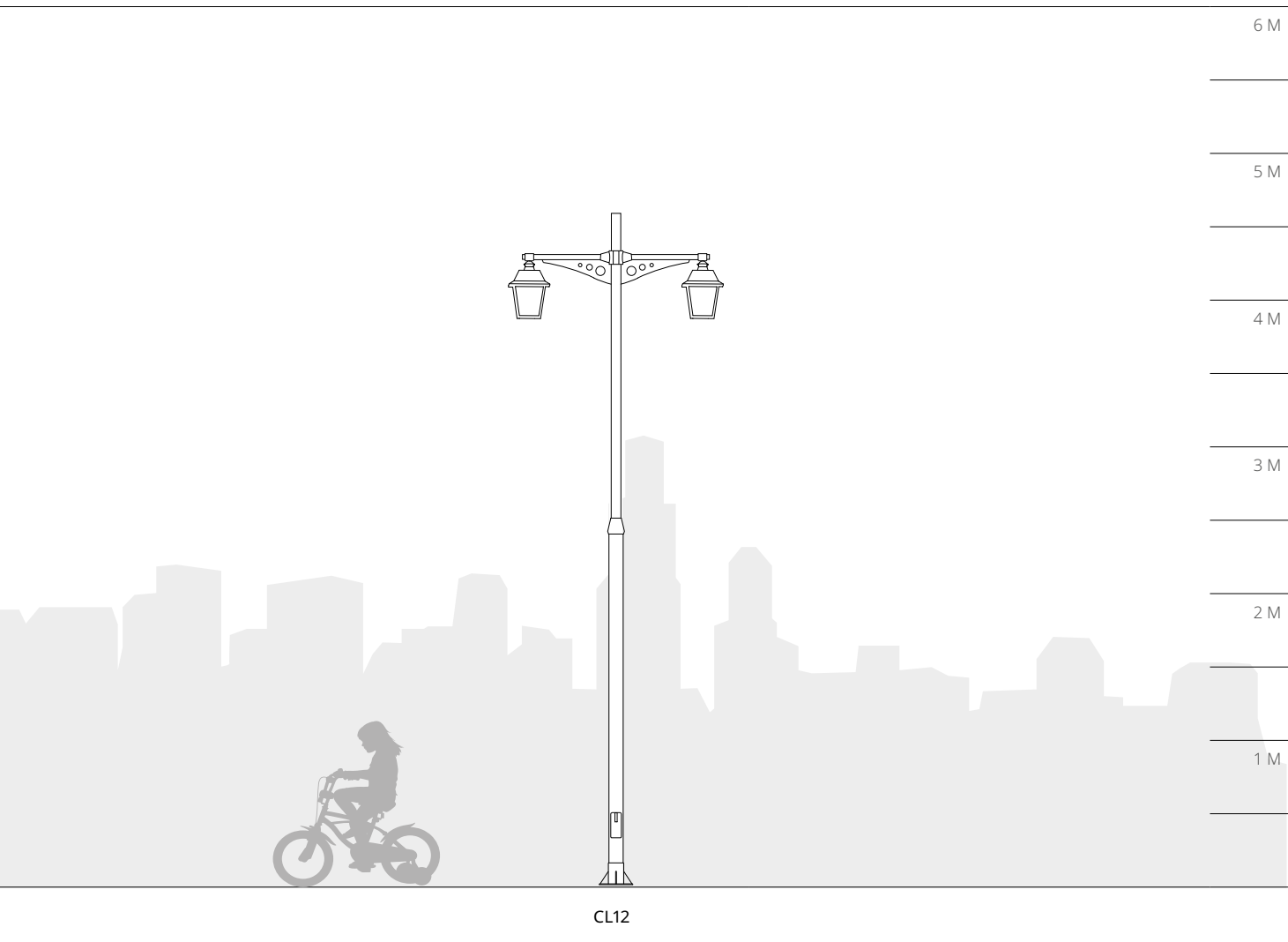
1 M




CL22



CL14



ACCESSORIES / REPLACEMENTS

Description	Order code
 ¾" G fastening adaptor to Ø60 in BKTECH	5-531881

OTHER LUMINAIRES IN THE COLLECTION



PRAGA M PRO