



KELP

WALL ARM

ISTANIUM^{LED}



Parking areas



Avenues



Streets



Pedestrian streets



Commercial areas



Parks / Gardens



Squares



Roundabouts /
Intersections



Large areas

ISTANIUM^{LED}®

Check other photometric distributions

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 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 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 disconnector for automatic disconnection and a three-guide alignment system to avoid incorrect assemblies, according to luminaire model. Possibility of fitting an upper Zhaga/NEMA connector for MERAK and ALTAIR luminaires, and a lower Zhaga connector for MERAK luminaires. 6 mm thick flat transparent tempered glass diffuser to facilitate cleaning and avoid UV radiation on the optics. **IP66** protection rating for the complete luminaire, with **pressure relief valve** to keep the pressure constant and prevent moisture from entering, and up to **IK10** impact resistance rating. 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) equal to 0% (verify according to optics used). With **Class I** and **Class II** electronic equipment with 230 V AC/50 Hz supply voltage. Possibility of including 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, 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 finishes, as well as Seafrost paint for corrosive environments with high durability in a **C5M** environment. Dimensions 425x63x425 mm for MERAK luminaire and 425x63x220 mm for ALTAIR luminaire. **ENEC+** and **Zhaga-D4i** certified MERAK luminaire. ALTAIR **ENEC** certified luminaire, compatible with **Zhaga-D4i**.

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

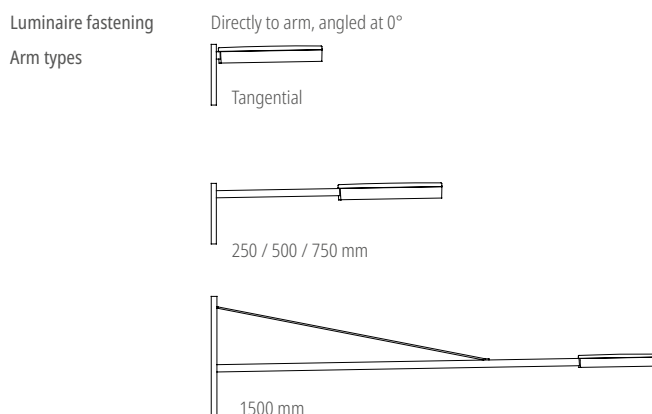
ELECTRICAL PARAMETERS * AND CONNECTIVITY

Temp.	-20 °C... +35 °C			
Dimming**	MERAK luminaire		ALTAIR luminaire	
	2N- Without control line		2N- Without control line	
	Dxxx Without custom programmed control line		Dxxx Without custom programmed control line	
	2N+ With control line		CAD Cabinet amplitude dimming	
	CAD Cabinet amplitude dimming		1N (100%) Without dimming	
	1N (100%) Without dimming		1.10V Dimming through 1.10V input protocol	
	1.10V Dimming through 1.10V input protocol		DALI Dimming through DALI 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 on the top of the MERAK or ALTAIR luminaire and a Zhaga connector on the bottom of the MERAK luminaire according to Zhaga Consortium Book 18.			
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 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



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 / Seafrost Paint) RAL chart colours (Standard Paint / Seafrost Paint)
Luminaires	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%.

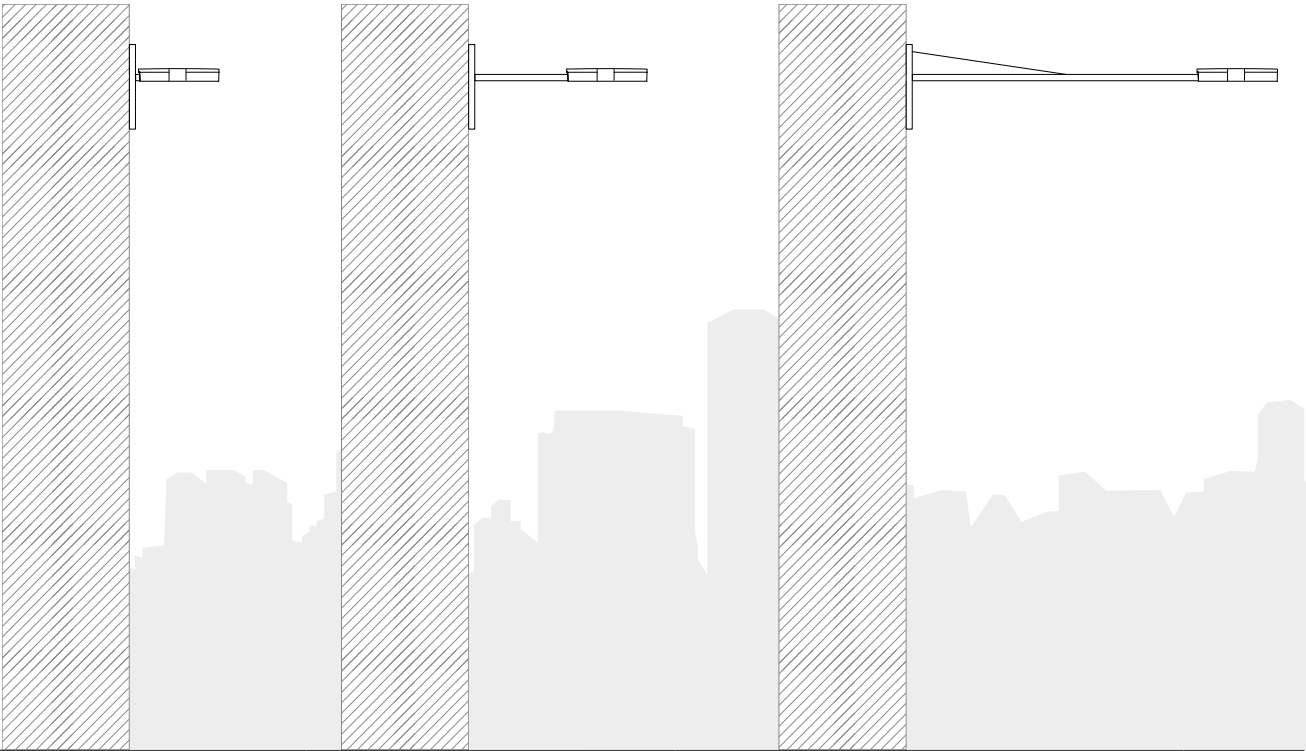


CONFIGURE YOUR KELP WALL ARM

Model	Arm	Arm length	Optics	Colour Temp.	Flux	Team	Dimming	Protection	Finishes	Description
KEG KEB										Simon MERAK / ALTAIR luminaire for KELP, with IK10 protection Simon MERAK / 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_							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
				☐ NDL ☐ WDL ☐ SDL ☐ XDL						Neutral daylight - 4,000 K Warm daylight – 3,000 K Soft daylight - 2,700 K Extra warm daylight – 2,200 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,
TANGENTIAL

KELP MERAK WALL ARM 500 MM

KELP MERAK WALL ARM 1500 MM

