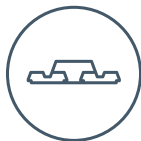


LIGHT FOR INDUSTRIAL AND
URBAN SPACES

Product Data Sheets

Technological solutions
for industrial and urban
lighting applications.

INDUSTRY



STARK



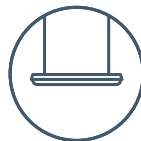
ATLAS



ORBITER



SALUCA



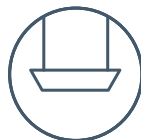
BURAN



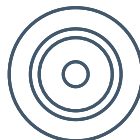
ITAN



VIRGO



SPIRIT



HELIOS



BUXUS

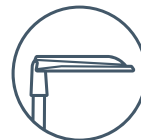
URBAN



NOESI



TALEDE PLUS



MAXIMO



THEMIS



HEMERA



KOINÈ



KIT RETROFIT

Light as a Value

This is the key principle that leads our commitment in the design and implementation of cutting-edge solutions.

For 40 years we have cultivated a deep-rooted innovation culture that guides us towards investments in energies and resources.

We are constantly evolving to **ensure value, quality and durability** of our solutions.



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8	Light for industrial spaces	82	Light for urban spaces
10	Operation and safety	84	Visual comfort
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Light for industrial spaces

- _ Operation and safety
- _ Connectivity
- _ Turnkey solutions



Smart and safe light

GDS Lighting designs and develops products and solutions in which the adaptability of vision is pivotal for industrial applications.

In such contexts, lighting must be functional to the operation:

- _ performance and visual comfort for entrance, reception and office areas
- _ safety and focus for work and production areas
- _ efficiency for storage spaces
- _ safety and robustness for external and passage areas.

Our solutions combine energy efficiency with the comfort and well-being of people; with advanced connectivity systems we adjust the use and characteristics of light according to the context conditions.





Our remote-control solutions manage the luminaires in an intelligent and dynamic way, calibrating the required amount of light according to the context situation.

The sensors detect ambient light and the presence of operators and adjust the luminous flux accordingly. In this way, it is possible to maximize the expected energy savings, even in production areas.

We analyze the situation of each plant together with our customers, to design the most suitable solution for the specific context.



Project management

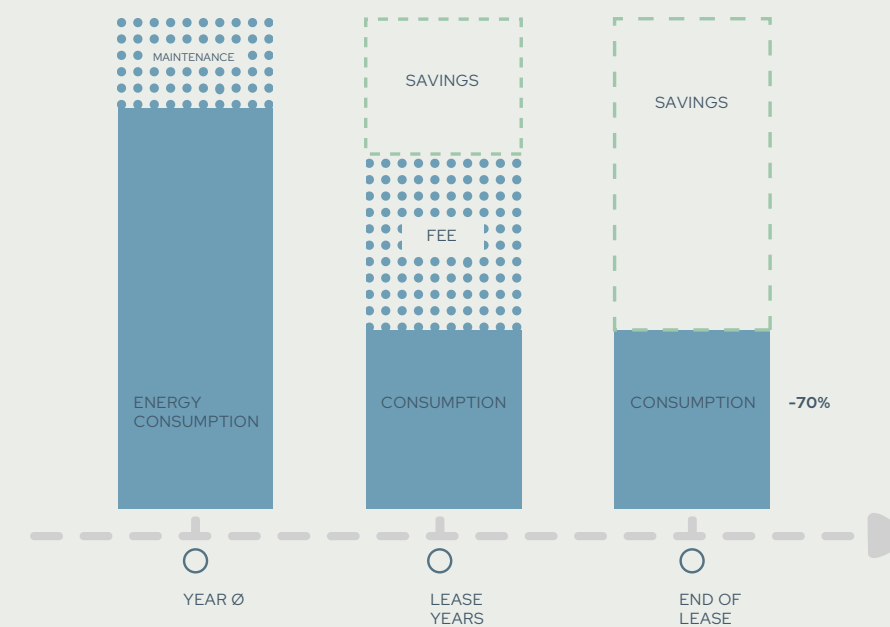


Our long-term experience in LED lighting and system commissioning worldwide allows us to handle projects with all-round project management skills.

We take care of every single installation, analyze its features, define and guarantee the expected savings, design the best solution and are responsible for the implementation - to deliver to the customer a system ready to be switched on.



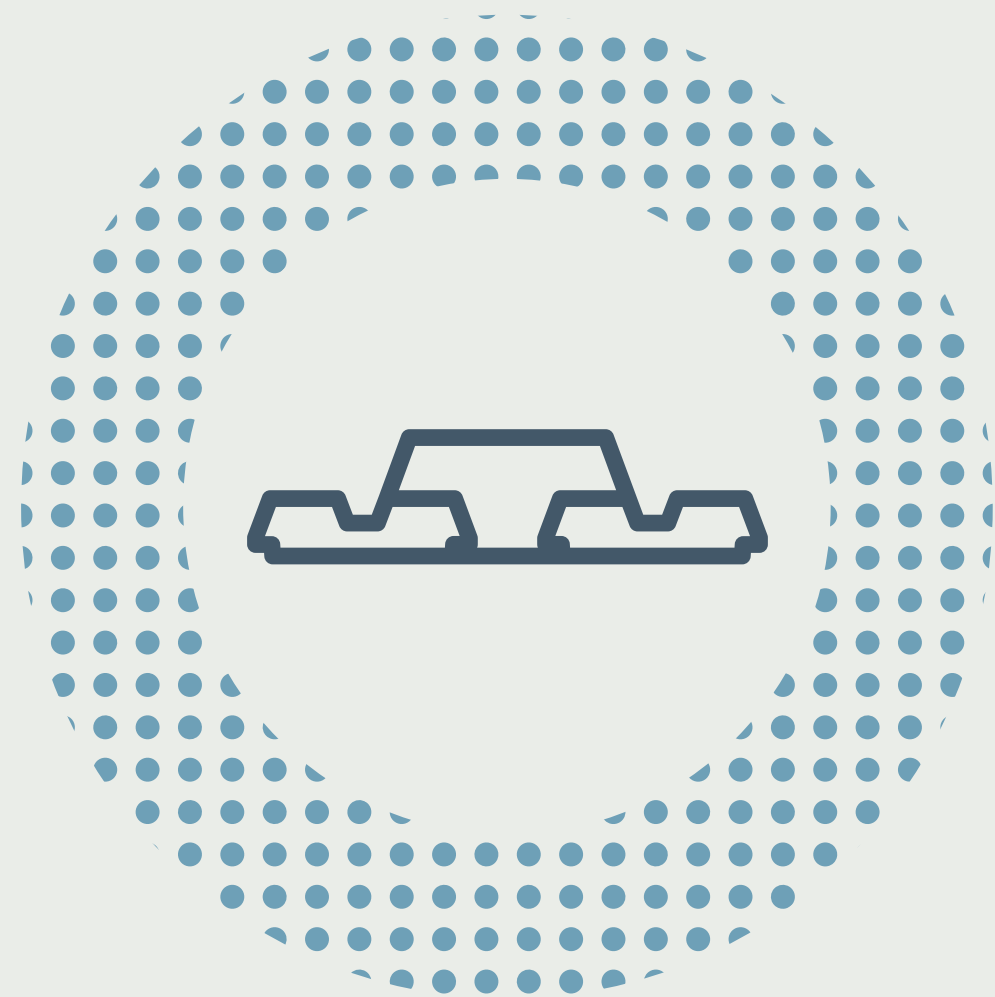
**-70%
OF ENERGY
CONSUMPTION**

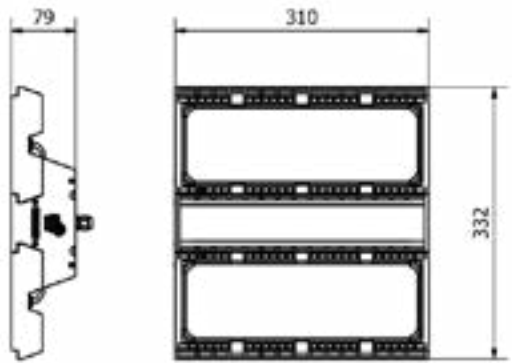


In addition to **direct energy savings** (about 70% less than traditional systems), **LED systems also guarantee reduced CO2 emissions**, extended lifespan (up to 15 years), **visual comfort**, **minimum maintenance costs** and the **possibility of control**.

Thanks to the immediate reduction in consumption and management costs, the return on investment is already guaranteed after 1.5 years from installation. Moreover, our customized financing formulas, as an alternative to purchasing, avoid extra initial costs.

Stark

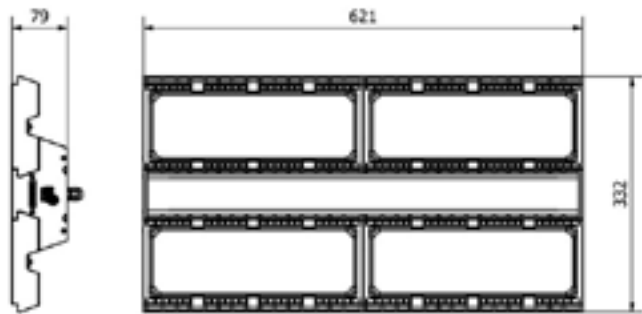




IP65

STARK 2 GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	WN: Wide; ON: Asymmetric; WG: Wide + Glass; OG: Asymmetric + Glass;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK04 (IK08 with protective glass)
IP Grade	IP65
Wiring	Removable, no tools required
Dimensions	310 x 322 x 78.5 mm
Weight	2.6 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-277V 50/60Hz su richiesta
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Operating temperature	-20°C +40°C
Network connection	1.5 m cable with free terminals
Optical unit life (Ta from -10°C to 45°C)	L80 B10 > 100.000 hr L70 B10 > 100.000 hr (Stark 2 4 120W)
MATERIALS	
Fixing	By means of steel hooks; optional accessories on request
Heatsink	Die-cast aluminium painted RAL 9003
Frame	Die-cast aluminium painted RAL 9003
Optics	Optical PMMA with high temperature and UV resistance
Screen	In glass on request

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



STARK 4 GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	WN: Wide; ON: Asymmetric; WG: Wide + Glass; OG: Asymmetric + Glass;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	>80 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK04 (IK08 with protective glass)
IP Grade	IP65
Wiring	Removable, no tools required
Dimensions	621 x 322 x 78.5 mm
Weight	5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-277V 50/60Hz su richiesta
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Network connection	1.5 m cable with free terminals
Optical unit life (Ta from -10°C to 45°C)	L80 B10 > 100.000 hr
MATERIALS	
Fixing	By means of steel hooks; optional accessories on request
Heatsink	Die-cast aluminium painted RAL 9003
Frame	Die-cast aluminium painted RAL 9003
Optics	Optical PMMA with high temperature and UV resistance
Screen	In glass on request

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

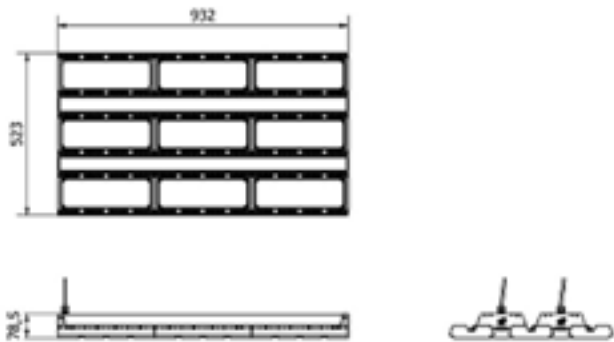


STARK 6 GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	OG: Asymmetric + Glass; ON: Asymmetric; WG: Wide + Glass; WN: Wide;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80, on request 90 (LED type: B; flux multiplier 0.8) Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I , Class II upon request
Degree of protection	IK04 (IK08 with protective glass)
IP Grade	IP65
Wiring	Removable, no tools required
Dimensions	621 x 523 x 78.5 mm
Weight	7.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-277V 50/60Hz su richiesta
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Network connection	Cable with free terminals
Optical unit life (Ta from -10°C to 45°C)	L80 B10 > 100.000 hr
MATERIALS	
Fixing	By means of steel hooks; optional accessories on request
Heatsink	Die-cast aluminium painted RAL 9003
Frame	Die-cast aluminium painted RAL 9003
Optics	Optical PMMA with high temperature and UV resistance
Screen	In glass on request

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Stark 6 1	190 W	31920 lm
Stark 6 2	258 W	42544 lm
Stark 6 3	315 W	50652 lm
EMERGENCY KIT		
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838		
Instant intervention		
Single battery systems 1 h and 3 h		
Emitted lumens 750		
Self-diagnosis system available (MAT2)		
DALI remote control system available (MAT3)		

CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
ST6	1	A	OG	10	0	1
	2	B	ON		D	2
	8		WG		C	3
			WN		E	
					W	
					X	

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



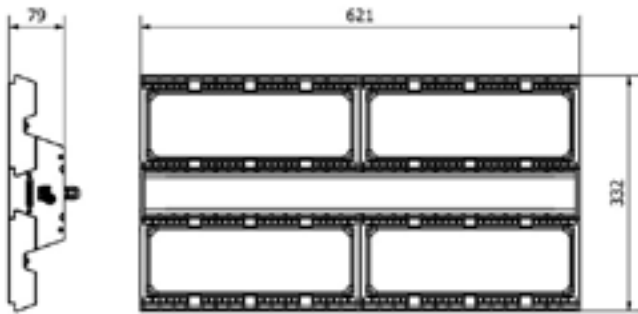
STARK 9 GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	OG: Asymmetric + Glass; ON: Asymmetric; WG: Wide + Glass; WN: Wide;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80, on request 90 (LED type: B; flux multiplier 0.8) Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK04 (IK08 with protective glass)
IP Grade	IP65
Wiring	Removable, no tools required
Dimensions	932 x 523 x 78.5 mm
Weight	11 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-277V 50/60Hz su richiesta
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Network connection	Cable with free terminals
Optical unit life (Ta from -10°C to 45°C)	L80 B10 > 100.000 hr
MATERIALS	
Fixing	By means of steel hooks; optional accessories on request
Heatsink	Die-cast aluminium painted RAL 9003
Frame	Die-cast aluminium painted RAL 9003
Optics	Optical PMMA with high temperature and UV resistance
Screen	In glass on request

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Stark 9 1	387 W	63274 lm
Stark 9 2	472 W	76369 lm

EMERGENCY KIT	
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838	
Instant intervention	
Single battery systems 1 h and 3 h	
Emitted lumens 750	
Self-diagnosis system available (MAT2)	
DALI remote control system available (MAT3)	

CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
ST9	1	A	OG	10	0	1
	2	B	ON		D	2
	8		WG		E	
			WN		C	
					W	
					X	

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



Atlas

STARK HT GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	OG: Asymmetric + Glass; ON: Asymmetric; WG: Wide + Glass; WN: Wide;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	>80 Min. > 80, on request 90 (LED type: B; flux multiplier 0.8)
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK04 (IK08 with protective glass)
IP Grade	IP65
Wiring	Removable, no tools required
Dimensions	621 x 322 x 78.5 mm
Weight	5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Network connection	1.5 m cable with free terminals
Optical unit life (Ta from -10°C to 45°C)	L80 (Tq = 70°C) = 50.000 hr
MATERIALS	
Fixing	By means of steel hooks; optional accessories on request
Heatsink	Die-cast aluminium painted RAL 9003
Frame	Die-cast aluminium painted RAL 9003
Optics	Optical PMMA with high temperature and UV resistance
Screen	In glass on request

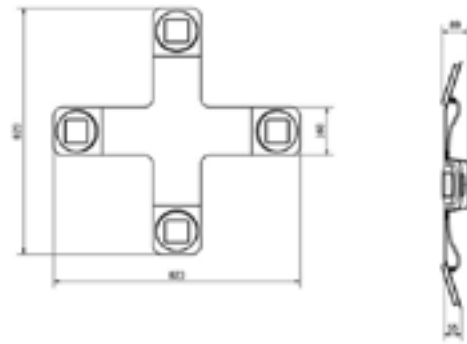
POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Stark HT 1	108 W	17572 lm
Stark HT 2	140 W	22719 lm

CODING					
	LED colour	LED type	Optics Type	Finishes	Options Power
STH	1	A	OG	10	0 1
	2	B	ON		D 2
	8		WG		E
			WN		C W X



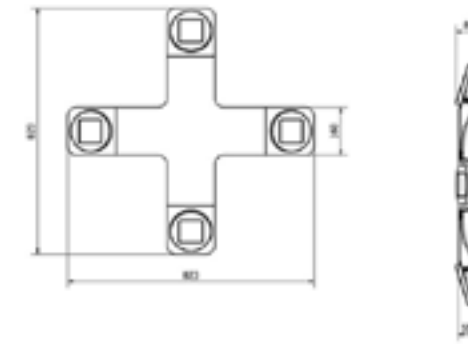
The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.





ATLAS 75 GENERAL CHARACTERISTICS	
Applications	Industrial and commercial lighting
Optics	40: Symmetrical optics with 40° aperture; 60: Wide optics;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	Optical group IP65
Wiring	Removable, no tools required
Dimensions	823 x 823 x 89 mm
Weight	5.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	120-270 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Network connection	Neoprene cable 1 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr @ tA max 50 °C
MATERIALS	
Fixing	By means of galvanized steel brackets
Heatsink	Painted aluminium
Frame	Painted aluminium
Optics	Optical PMMA with high temperature and UV resistance
Screen	PMMA thickness 4 mm

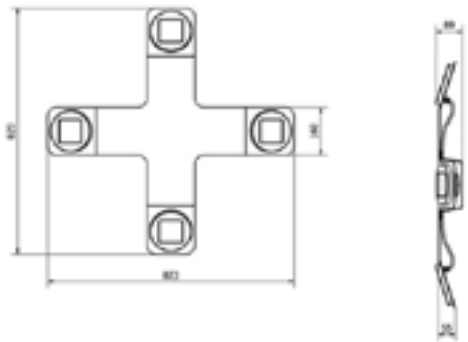
The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



ATLAS 100 GENERAL CHARACTERISTICS	
Applications	Industrial and commercial lighting
Optics	40: Symmetrical optics with 40° aperture; 60: Wide optics;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	Optical group IP65
Wiring	Removable, no tools required
Dimensions	823 x 823 x 89 mm
Weight	5.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	120-270 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Network connection	Neoprene cable 1 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr @ tA max 50 °C Vita alimentazione Ta Max 50° 65.000 hr
MATERIALS	
Fixing	By means of galvanized steel brackets
Heatsink	Painted aluminium
Frame	Painted aluminium
Optics	Optical PMMA with high temperature and UV resistance
Screen	PMMA thickness 4 mm

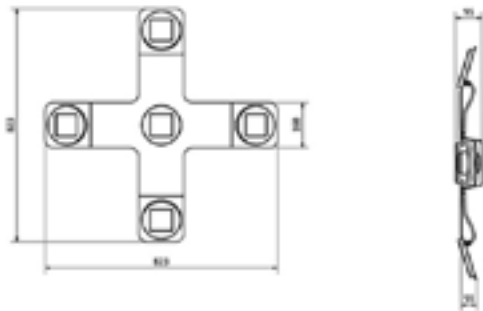
POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)						
Atlas 100 2		121 W		14731 lm		
CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
ATU	1	C	40	12	0	2
	2	N	60		D	
	8					

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



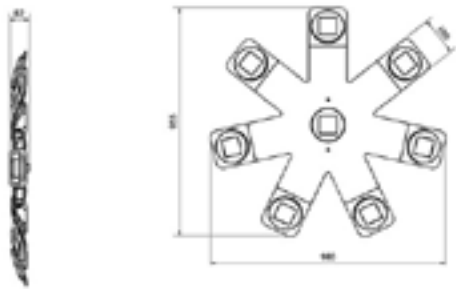
ATLAS 125 GENERAL CHARACTERISTICS	
Applications	Industrial and commercial lighting
Optics	40: Symmetrical optics with 40° aperture; 60: Wide optics;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	Optical group IP65
Wiring	Removable, no tools required
Dimensions	823 x 823 x 89 mm
Weight	5.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	120-270 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Network connection	Neoprene cable 1 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr Vita alimentazione Ta Max 50° 65.000 hr
MATERIALS	
Fixing	By means of galvanized steel brackets
Heatsink	Painted aluminium
Frame	Painted aluminium
Optics	Optical PMMA with high temperature and UV resistance
Screen	PMMA thickness 4 mm

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



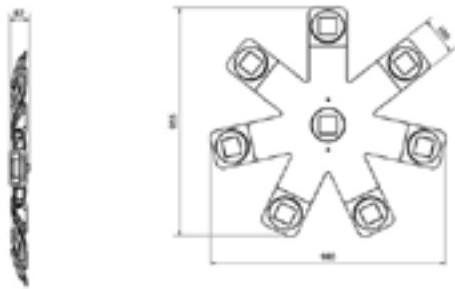
ATLAS 150 GENERAL CHARACTERISTICS	
Applications	Industrial and commercial lighting
Optics	40: Symmetrical optics with 40° aperture; 60: Wide optics;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	Optical group IP65
Wiring	Removable, no tools required
Dimensions	823 x 823 x 95 mm
Weight	5.7 kg
ELECTRICAL CHARACTERISTICS	
Power supply	120-270 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Network connection	Neoprene cable 1 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr @ tA max 50 °C Vita alimentazione Ta Max 50° 65.000 hr
MATERIALS	
Fixing	By means of galvanized steel brackets
Heatsink	Painted aluminium
Frame	Painted aluminium
Optics	Optical PMMA with high temperature and UV resistance
Screen	PMMA thickness 4 mm

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



ATLAS 200 GENERAL CHARACTERISTICS	
Applications	Industrial and commercial lighting
Optics	40: Symmetrical optics with 40° aperture; 60: Wide optics;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	Optical group IP65
Wiring	Removable, no tools required
Dimensions	980 x 955 x 82 mm
Weight	9.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	120-270 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Network connection	Neoprene cable 1 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr Vita alimentazione Ta Max 50° 65.000 hr
MATERIALS	
Fixing	By means of galvanized steel brackets
Heatsink	Painted aluminium
Frame	Painted aluminium
Optics	Optical PMMA with high temperature and UV resistance
Screen	PMMA thickness 4 mm

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

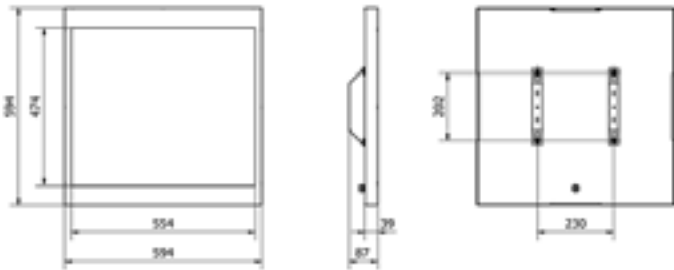


ATLAS 225 GENERAL CHARACTERISTICS	
Applications	Industrial and commercial lighting
Optics	40: Symmetrical optics with 40° aperture; 60: Wide optics;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	Optical group IP65
Wiring	Removable, no tools required
Dimensions	980 x 955 x 82 mm
Weight	9.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	120-270 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Network connection	Neoprene cable 1 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr Vita alimentazione Ta Max 50° 65.000 hr
MATERIALS	
Fixing	By means of galvanized steel brackets
Heatsink	Painted aluminium
Frame	Painted aluminium
Optics	Optical PMMA with high temperature and UV resistance
Screen	PMMA thickness 4 mm

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

Orbiter





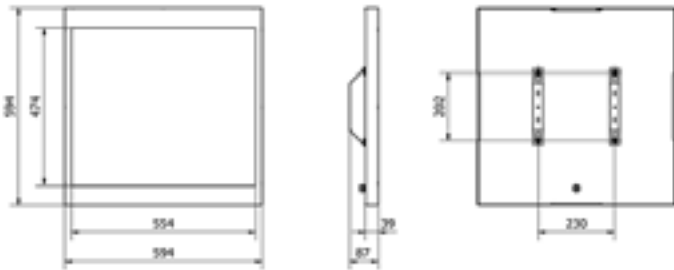
ORBITER MP HE GENERAL CHARACTERISTICS	
Applications	Industrial and commercial lighting
Optics	00: Symmetrical Diffuse Optics;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IP65
Wiring	Removable, no tools required
Dimensions	594 x 594 x 39 mm
Weight	5.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	DALI ballasts on request and Wireless
Network connection	3-pole terminal block
Optical unit life (Ta from -10°C to 45°C)	L70 B20 > 50.000 hr
MATERIALS	
Fixing	Ceiling installation by means of screws and dowels or suspension by means of steel cable
Heatsink	Frame powder-coated white; painted RAL 9003
Frame	Frame powder-coated white; painted RAL 9003
Optics	N.a.
Screen	Flat PMMA 3 mm thick with double optical UV treatment

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Orbiter MP HE 0	70 W	10520 lm
Orbiter MP HE 1	96 W	14237 lm
Orbiter MP HE 2	114 W	16530 lm
Orbiter MP HE 3	126 W	18303 lm
Orbiter MP HE 4	153 W	21672 lm

EMERGENCY KIT	
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838	
Instant intervention	
Single battery systems 1 h and 3 h	
Emitted lumens 750	
Self-diagnosis system available (MAT2)	
DALI remote control system available (MAT3)	

CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
OHR	1	A	00	10	0	0
	2	B			D	1
	8				E	2
					W	3
						4

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



ORBITER I HT GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	00: Symmetrical Diffuse Optics;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IP65
Wiring	Quick plug-in IP65 connector
Dimensions	594 x 594 x 39 mm
Weight	5.5 kg

ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	1-10 V or Dali on request
Network connection	3-pole terminal block
Optical unit life (Ta from -10°C to 45°C)	L80 B20 > 50.000 hr @ Ta Max 70°C Vita alimentazione @ Ta Max 70°C 65.000 hr*

MATERIALS	
Fixing	Ceiling installation by means of screws and dowels or suspension by means of steel cable
Heatsink	Frame powder-coated white; painted RAL 9003
Frame	Frame powder-coated white; painted RAL 9003
Optics	N.a.
Screen	Flat PMMA 3 mm thick with double optical UV treatment

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Orbiter I HT 1	78 W	8970 lm
Orbiter I HT 3	118 W	13548 lm

CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
OHT	1	N	00	10	0	1
	2					3
	8					

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

Saluca





SALUCA MP HE GENERAL CHARACTERISTICS	
Applications	Industrial and commercial lighting
Optics	44: Acid etched glass;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	>80 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK08
IP Grade	IP66
Wiring	Quick plug-in IP66 connector
Dimensions	1305 x 192 x 90 mm
Weight	5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Network connection	Quick plug-in IP65 connector
Optical unit life (Ta from -10°C to 45°C)	L70 B20 > 70.000 hr
MATERIALS	
Fixing	Suspension installation by steel cable
Heatsink	Steel plate
Frame	Powder coated steel RAL9003
Optics	N.a.
Screen	Flat tempered glass 5 mm thick, resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



SALUCA MP HT GENERAL CHARACTERISTICS	
Applications	Industrial
Optics	44: Acid etched glass;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	>80 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK08
IP Grade	IP66
Wiring	Quick plug-in IP66 connector
Dimensions	1305 x 192 x 90 mm
Weight	5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	> 0.9 (at full load)
Operating temperature	Fino a 70° C
Network connection	Quick plug-in IP65 connector
Optical unit life (Ta from -10°C to 45°C)	L70 B20 > 70.000 hr
MATERIALS	
Fixing	Suspension installation by steel cable
Heatsink	Steel plate
Frame	Powder coated steel RAL9003
Optics	N.a.
Screen	Flat tempered glass 5 mm thick, resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Saluca MP HE 1	50 W	6925 lm
Saluca MP HE 2	74 W	9684 lm
Saluca MP HE 3	108 W	13094 lm

EMERGENCY KIT	
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838	
Instant intervention	
Single battery systems 1 h and 3 h	
Emitted lumens 750	
Self-diagnosis system available (MAT2)	
DALI remote control system available (MAT3)	

CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
SAH	1	A	44	V	0	1
	2	B			D	2
	8				E	3
					C	

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Saluca MP HT 1	50 W	6925 lm
Saluca MP HT 2	74 W	9684 lm

CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
SHT	1	A	44	V	0	1
	2	B			D	2
	8					

Buran





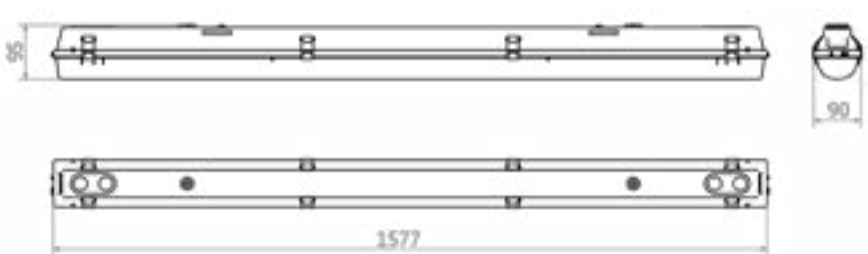
BURAN HE M GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	D: Symmetrical diffused PMMA;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IP65
Wiring	Quick plug-in connector IP65 - through-wiring version on request (P)
Dimensions	1277 x 95 x 90 mm
Weight	2 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Operating temperature	-20°C +40°C
Network connection	Through quick connector
Optical unit life (Ta from -10°C to 45°C)	L70 B20 > 70.000 hr L80 B20 > 70.000 hr mod. 2 pot.29w
MATERIALS	
Fixing	By means of galvanized steel brackets
Heatsink	N.a.
Frame	Grey polyester reinforced with glass fibre
Optics	N.a.
Screen	UV stabilized, high efficiency opal PMMA

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)			
Buran HE M 2	29 W	4357 lm	
Buran HE M 3	43 W	6367 lm	
Buran HE M 4	54 W	7719 lm	

EMERGENCY KIT	
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838	
Instant intervention	
Single battery systems 1 h and 3 h	
Emitted lumens 750	
Self-diagnosis system available (MAT2)	
DALI remote control system available (MAT3)	

CODING					
	LED colour	Optics Type	Finishes	Options	Power
BHEM	1	D	16	0	2
	2			D	3
	8			E	4
				C	
				P	

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



BURAN HE L GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	D: Symmetrical diffused PMMA;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IP65
Dimensions	1577 x 95 x 90 mm
Weight	2.4 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Operating temperature	-20°C +40°C
Network connection	Through quick connector
Optical unit life (Ta from -10°C to 45°C)	L70 B20 > 70.000 hr
MATERIALS	
Fixing	By means of galvanized steel brackets
Heatsink	N.a.

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Buran HE L 1	44 W	6713 lm
Buran HE L 2	57 W	8425 lm
Buran HE L 3	68 W	9722 lm

EMERGENCY KIT	
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838	
Instant intervention	
Single battery systems 1 h and 3 h	
Emitted lumens 750	
Self-diagnosis system available (MAT2)	
DALI remote control system available (MAT3)	

CODING					
	LED colour	Optics Type	Finishes	Options	Power
BHEL	1	D	16	0	1
	2			D	2
	8			E	3
				C	
				P	

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



BURAN ECO GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	D: Symmetrical diffused PMMA;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IP65
Wiring	Quick plug-in connector IP65 - through-wiring version on request (P)
Dimensions	1277 x 95 x 90 mm
Weight	2 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Operating temperature	-20°C +40°C
Network connection	Through quick connector
Optical unit life (Ta from -10°C to 45°C)	L70 B20 > 50.000 hr
MATERIALS	
Fixing	By means of galvanized steel brackets
Heatsink	N.a.
Frame	Grey polyester reinforced with glass fibre
Optics	N.a.
Screen	UV stabilized, high efficiency opal PMMA

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Buran ECO 1	19 W	2624 lm
Buran ECO 2	24 W	3227 lm
Buran ECO 3	38 W	5068 lm
Buran ECO 4	51 W	6766 lm

EMERGENCY KIT	
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838	
Instant intervention	
Single battery systems 1 h and 3 h	
Emitted lumens 750	
Self-diagnosis system available (MAT2)	
DALI remote control system available (MAT3)	

CODING					
	LED colour	Optics Type	Finishes	Options	Power
BECO	1	D	16	0	1
	2			D	2
	8			E	3
				C	4
				P	

Itan



The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



ITAN M GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	W: BBT lens;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80, on request 90 (LED type: B; flux multiplier 0.8) Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK07
IP Grade	IP65
Wiring	Quick plug-in connector IP65 - through-wiring version on request (P)
Dimensions	1040 x 83 x 83 mm
Weight	2.6 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Network connection	Through quick connector
Optical unit life (Ta from -10°C to 45°C)	L80 B10 > 100.000 hr
MATERIALS	
Fixing	By means of stainless steel brackets
Heatsink	Extruded aluminium
Frame	Painted extruded aluminium; painted die-cast aluminium end caps
Optics	Optical PMMA with high temperature and UV resistance
Screen	N.a.

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Itan M 1	27 W	4158 lm
Itan M 2	45 W	6615 lm
Itan M 3	52 W	7488 lm
EMERGENCY KIT		
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838		
Instant intervention		
Single battery systems 1 h and 3 h		
Emitted lumens 750		
Self-diagnosis system available (MAT2)		
DALI remote control system available (MAT3)		

CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
ITNM	1	A	W	10	0	1
	2	B		12	D	2
	8				E	3
					C	
					P	

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

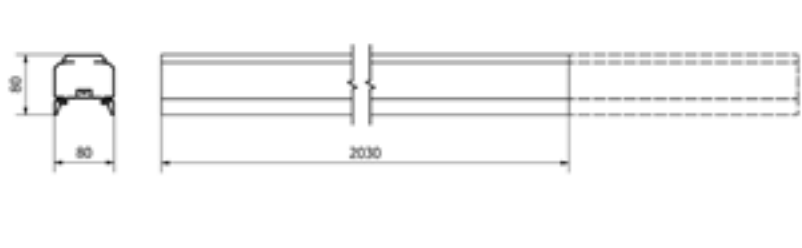


ITAN L GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	W: BBT lens;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80, on request 90 (LED type: B; flux multiplier 0.8) Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK07
IP Grade	IP65
Wiring	Quick plug-in connector IP65 - through-wiring version on request (P)
Dimensions	1378 x 83 x 83 mm
Weight	3.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Network connection	Through quick connector
Optical unit life (Ta from -10°C to 45°C)	L80 B10 > 100.000 hr
MATERIALS	
Fixing	By means of stainless steel brackets
Heatsink	Extruded aluminium
Frame	Painted extruded aluminium; painted die-cast aluminium end caps
Optics	Optical PMMA with high temperature and UV resistance
Screen	N.a.

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Itan L 1	36 W	5544 lm
Itan L 2	60 W	8820 lm
Itan L 3	70 W	9984 lm
EMERGENCY KIT		
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838		
Instant intervention		
Single battery systems 1 h and 3 h		
Emitted lumens 750		
Self-diagnosis system available (MAT2)		
DALI remote control system available (MAT3)		

CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
ITNL	1	A	W	10	0	1
	2	B		12	D	2
	8				E	3
					C	
					P	

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



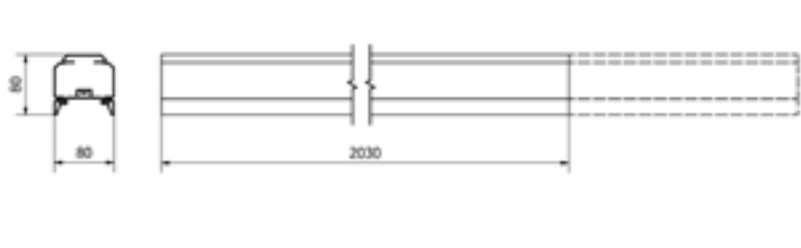
ITANC S GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	W : BBT lens;
Colour temperature	1 : Cool White 5,500K; 2 : Warm White 3,000K; 8 : Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80, on request 90 (LED type: B; flux multiplier 0.8) Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK07
IP Grade	IP20
Wiring	Removable, no tools required
Dimensions	1016 x 80 x 80 mm
Weight	3 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Operating temperature	-20°C +40°C
Network connection	Through quick connector
Optical unit life (Ta from -10°C to 45°C)	L80 B10 > 100.000 hr
MATERIALS	
Fixing	By means of stainless steel brackets
Heatsink	Extruded aluminium
Frame	Painted extruded aluminium; painted die-cast aluminium end caps
Optics	Optical PMMA with high temperature and UV resistance
Screen	N.a.

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
ItanC S 2	27 W	4158 lm
ItanC S 3	36 W	5436 lm
ItanC S 4	45 W	6615 lm
ItanC S 5	52 W	7488 lm

EMERGENCY KIT	
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838	
Instant intervention	
Single battery systems 1 h and 3 h	
Emitted lumens 750	
Self-diagnosis system available (MAT2)	
DALI remote control system available (MAT3)	

CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
ITCS	1	A	W	12	0	2
	2	B			D	3
	8				E	4
					C	5

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



ITAN C L GENERAL CHARACTERISTICS	
Applications	Industrial lighting
Optics	W : BBT lens;
Colour temperature	2 : Warm White 3,000K; 8 : Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80, on request 90 (LED type: B; flux multiplier 0.8) Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK07
IP Grade	IP20
Wiring	Removable, no tools required
Dimensions	2030 x 80 x 80 mm
Weight	4 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI input
Operating temperature	-20°C +40°C
Network connection	Through quick connector
Optical unit life (Ta from -10°C to 45°C)	L80 B10 > 100.000 hr
MATERIALS	
Fixing	By means of stainless steel brackets
Heatsink	Extruded aluminium
Frame	Painted extruded aluminium; painted die-cast aluminium end caps
Optics	Optical PMMA with high temperature and UV resistance
Screen	N.a.

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Itan C L 2	54 W	8316 lm
Itan C L 3	72 W	10872 lm
Itan C L 4	90 W	13230 lm
Itan C L 5	104 W	14976 lm

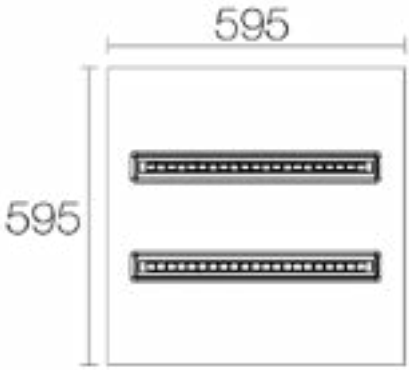
EMERGENCY KIT	
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838	
Instant intervention	
Single battery systems 1 h and 3 h	
Emitted lumens 750	
Self-diagnosis system available (MAT2)	
DALI remote control system available (MAT3)	

CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
ITCL	2	A	W	10	0	2
	8	B		12	D	3
					E	4
					C	5

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

Virgo





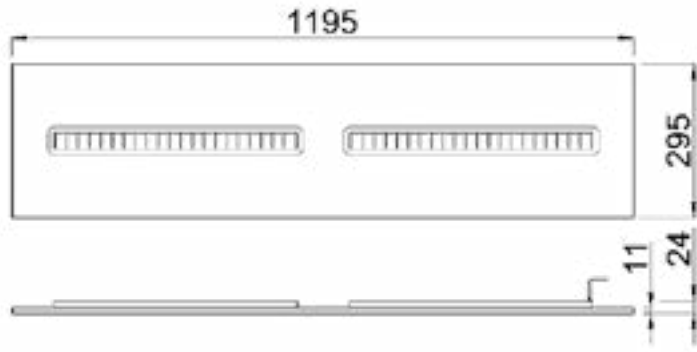
VIRGO Q GENERAL CHARACTERISTICS	
Applications	Office lighting
Optics	DL: Dark Light;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80 / Min. > 90 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
IP Grade	IP20
Wiring	Quick connect connector
Dimensions	595 x 595 x 38 mm
Weight	4.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 50 Hz
Power factor	> 0,95 (at full load)
Control system	Optional power supplies with DALI input
Operating temperature	-20°C +40°C
Network connection	3-pole terminal block
Optical unit life (Ta from -10°C to 45°C)	L80 B20 > 50.000 hr
MATERIALS	
Fixing	Recessed for false ceilings in panels with visible load-bearing structure 15/24 mm
Heatsink	Frame powder-coated white; painted RAL 9003
Frame	Frame powder-coated white; painted RAL 9003
Optics	Dark Light Lenticular Optics

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)			
Virgo Q 1	20 W	2666 lm	
Virgo Q 2	30 W	3800 lm	
Virgo Q 3	40 W	4880 lm	

EMERGENCY KIT	
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838	
Instant intervention	
Single battery systems 1 h and 3 h	
Emitted lumens 750	
Self-diagnosis system available (MAT2)	
DALI remote control system available (MAT3)	

CODING					
	LED colour	LED type	Optics Type	Options	Power
VGQ	2	N	DL	0	1
	8			D	2
					3

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



VIRGO R GENERAL CHARACTERISTICS	
Applications	Office lighting
Optics	DL: Dark Light;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80 / Min. > 90 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
IP Grade	IP20
Wiring	Quick connect connector
Dimensions	1195 x 295 x 26 mm
Weight	5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 50 Hz
Power factor	> 0,95 (at full load)
Control system	Optional power supplies with DALI input
Operating temperature	-20°C +40°C
Network connection	3-pole terminal block
MATERIALS	
Fixing	Recessed for false ceilings in panels with visible load-bearing structure 15/24 mm
Heatsink	Frame powder-coated white; painted RAL 9003
Frame	Frame powder-coated white; painted RAL 9003
Optics	Dark Light Lenticular Optics

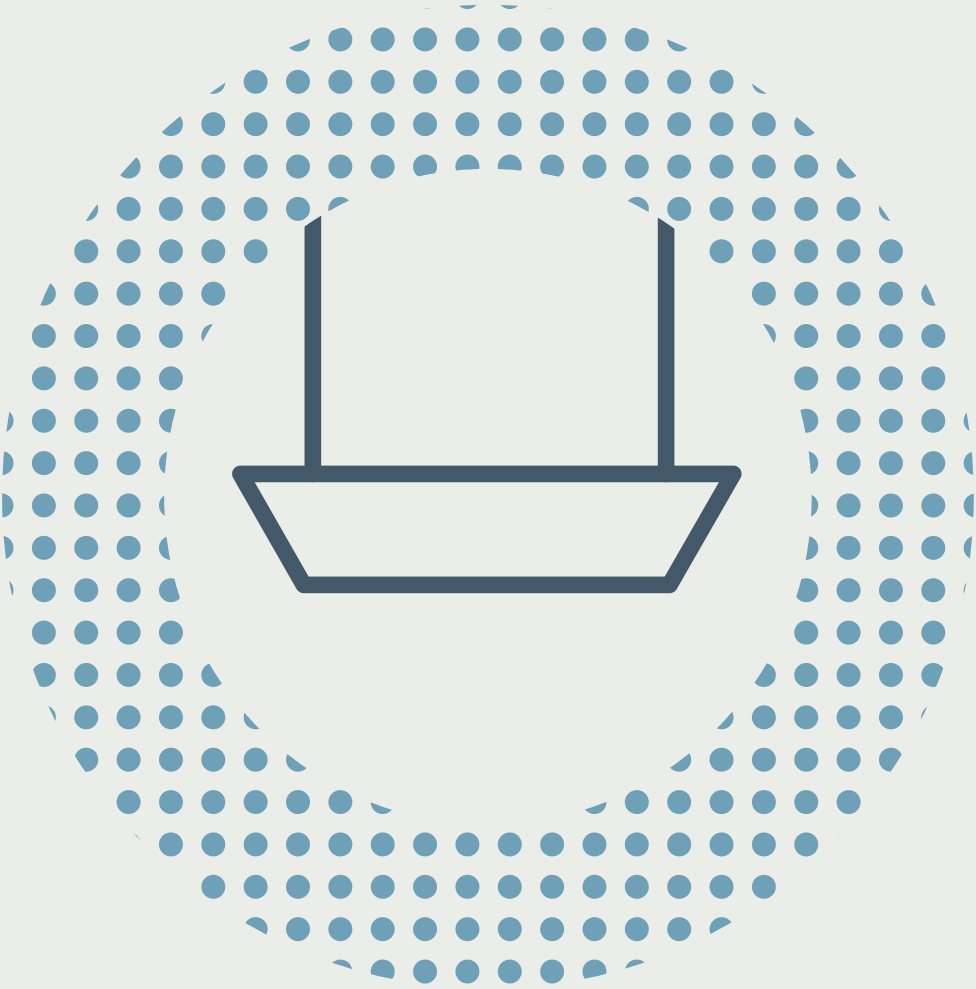
POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Virgo R 1	20 W	2666 lm
Virgo R 2	30 W	3800 lm
Virgo R 3	40 W	4880 lm
Virgo R 4	60 W	7600 lm

EMERGENCY KIT	
Self-contained emergency luminaire with permanent illumination for "escape route", "wide area" and "enhanced illumination" lighting according to EN 1838	
Instant intervention	
Single battery systems 1 h and 3 h	
Emitted lumens 750	
Self-diagnosis system available (MAT2)	
DALI remote control system available (MAT3)	

CODING					
	LED colour	LED type	Optics Type	Options	Power
VGR	2	N	DL	0	1
	8			D	2
					3
					4

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

Spirit





SPIRIT Q GENERAL CHARACTERISTICS	
Applications	Commercial lighting
Optics	D: Symmetrical diffused PMMA; U: UGR<19;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K; 4: Neutral White 4,000K CRI 90; 7: Warm White 3,000K CRI 90;
CRI and color tolerance (SDCM)	CRI 80 / CRI 90 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
IP Grade	IP20, IP40
Wiring	Quick connect connector
Dimensions	596 x 596 x 10.5 mm
Weight	3.1 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI/0-10v input
Operating temperature	-20°C +40°C
Network connection	3-pole terminal block
Optical unit life (Ta from -10°C to 45°C)	L70 B50 > 30.000 hr
MATERIALS	
Fixing	Recessed for false ceilings in panels with visible load-bearing structure 15/24 mm
Heatsink	Painted aluminium
Frame	Painted aluminium
Optics	U: version UGR<19; D: version UGR<22 opal
Screen	Flat polycarbonate

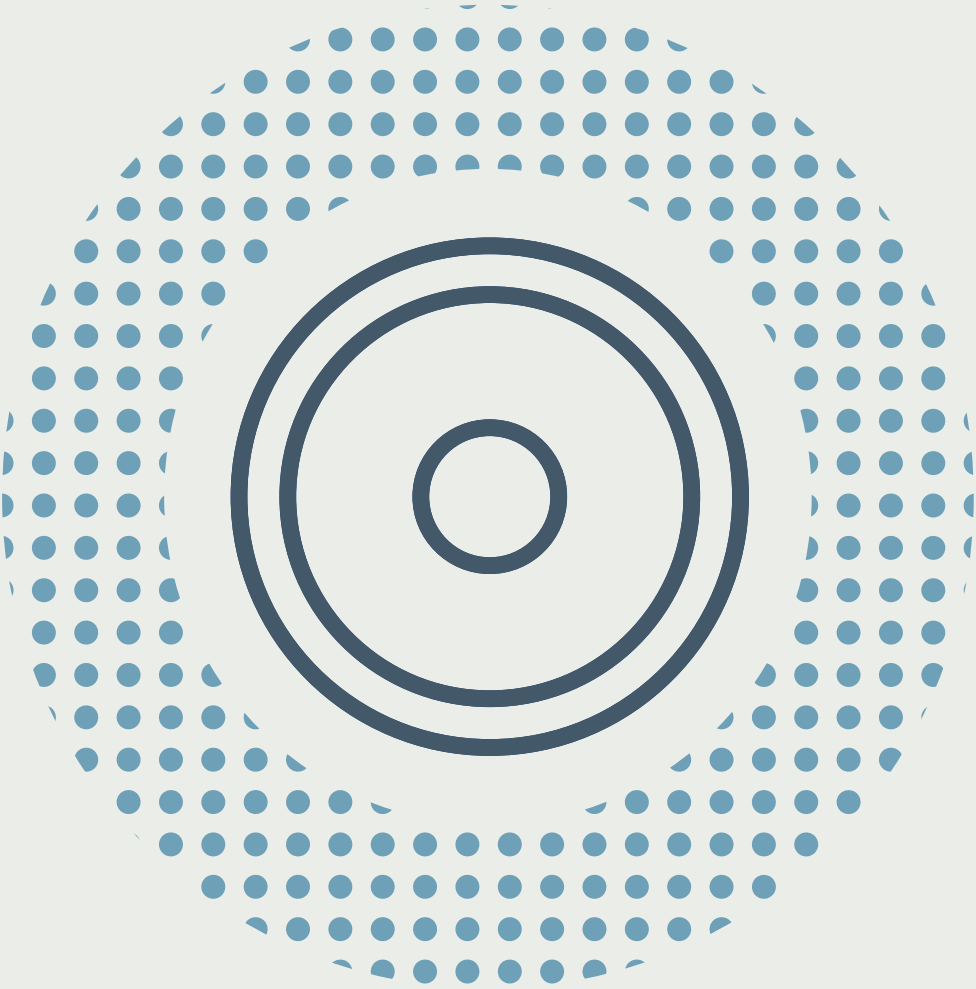
The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

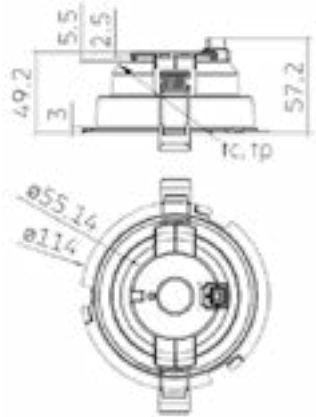


SPIRIT R GENERAL CHARACTERISTICS	
Applications	Commercial lighting
Optics	D: Symmetrical diffused PMMA; U: UGR<19;
Colour temperature	8: Neutral White 4,000K; 4: Neutral White 4,000K CRI 90;
CRI and color tolerance (SDCM)	CRI 80 / CRI 90 Colour tolerance between several luminaires Max. 5 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
IP Grade	IP20, IP40
Wiring	Quick connect connector
Dimensions	1195 x 295 x 10 mm
Weight	3.1 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional power supplies with DALI/0-10v input
Operating temperature	-20°C +40°C
Network connection	3-pole terminal block
Optical unit life (Ta from -10°C to 45°C)	L70 B50 > 30.000 hr
MATERIALS	
Fixing	Recessed installation, accessory for suspension and ceiling installation available
Heatsink	Painted aluminium
Frame	Painted aluminium
Optics	U: version UGR<19; D: version UGR<22 opal
Screen	Flat polycarbonate

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

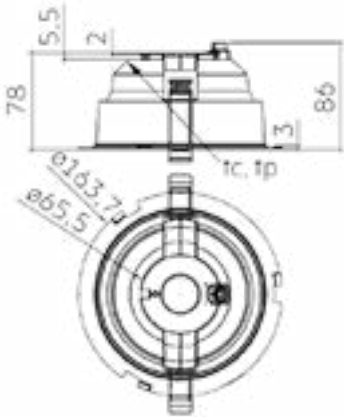
Helios





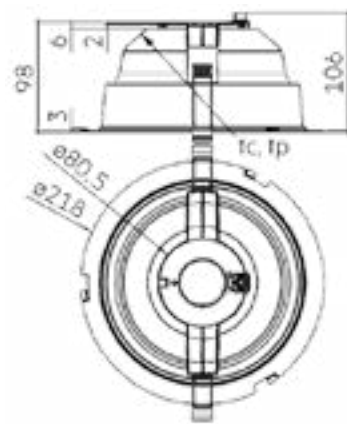
HELIOS S GENERAL CHARACTERISTICS	
Applications	Commercial lighting
Optics	60: UGR<19; 90: UGR<22;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
IP Grade	IP20
Wiring	Removable
Dimensions	diam 114 x 50 mm Recess hole 100 mm
Weight	1 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional with additional external power supply
Operating temperature	-20°C +40°C
Network connection	Protected terminal block
Optical unit life (Ta from -10°C to 45°C)	L70 B50 > 50.000 hr
MATERIALS	
Fixing	By means of springs
Heatsink	Aluminium
Frame	High efficiency aluminised reflector
Optics	High efficiency aluminised reflector

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



HELIOS M GENERAL CHARACTERISTICS	
Applications	Commercial lighting
Optics	60: UGR<19; 90: UGR<22;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
IP Grade	IP20
Wiring	Removable
Dimensions	diam 163 x 78 mm Recess hole 150 mm
Weight	1 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional with additional external power supply
Operating temperature	-20°C +40°C
Optical unit life (Ta from -10°C to 45°C)	L70 B50 > 50.000 hr
MATERIALS	
Fixing	By means of springs
Heatsink	Aluminium
Optics	High efficiency aluminised reflector

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



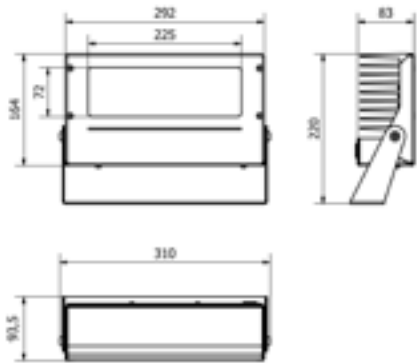
HELIOS L GENERAL CHARACTERISTICS	
Applications	Commercial lighting
Optics	60: UGR<19; 90: UGR<22;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	80 Colour tolerance between several luminaires Max. 3 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class I
IP Grade	IP20
Wiring	Removable
Dimensions	diam 218 x 98 mm Recess hole 200 mm
Weight	1 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Optional with additional external power supply
Operating temperature	-20°C +40°C
Network connection	Protected terminal block
Optical unit life (Ta from -10°C to 45°C)	L70 B50 > 50.000 hr
MATERIALS	
Fixing	By means of springs
Heatsink	Aluminium
Frame	High efficiency aluminised reflector
Optics	High efficiency aluminised reflector

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)		
Helios L 01	20 W	2250 lm
Helios L 02	20 W	3180 lm

	CODING			
	LED colour	Optics Type	Finishes	Power
HLL	2	60	B	01
	8	90		02

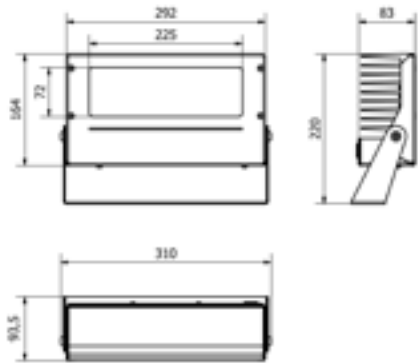


The characteristics of the product are subject to change and will be confirmed when the order is placed.
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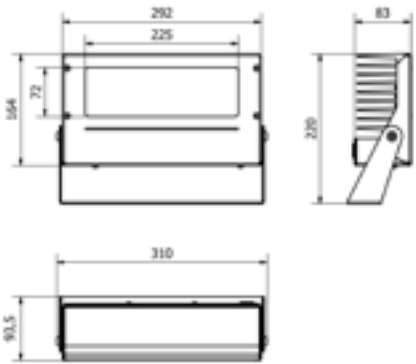
BUXUS 50 GENERAL CHARACTERISTICS	
Applications	Industrial and outdoor lighting
Optics	13: Rotosymmetric 13°; 25: Rotosymmetric 25°; AS: Asymmetric; A2: Asymmetrical 2; 40: Rotosymmetric 40°;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK08
IP Grade	IP66
Wiring	Quick plug-in IP65 connector
Dimensions	310 x 220 x 93.5 mm
Weight	5.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Operating temperature	-20°C +40°C
Network connection	Neoprene cable 0.3 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 90.000 hr
MATERIALS	
Fixing	By means of black painted steel bracket
Heatsink	Black anodized aluminium
Frame	Black painted steel; painted RAL 9005
Optics	Version 13/25/40°/AS Optical PMMA with high temperature and UV resistance
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



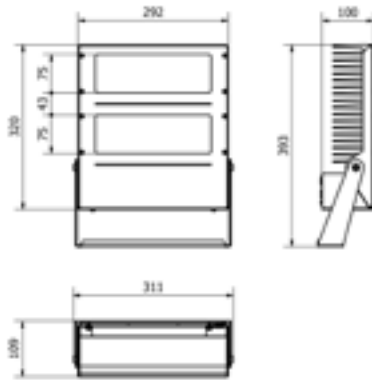
BUXUS 75 GENERAL CHARACTERISTICS	
Applications	Industrial and outdoor lighting
Optics	13: Rotosymmetric 13°; 25: Rotosymmetric 25°; AS: Asymmetric; A2: Asymmetrical 2; 40: Rotosymmetric 40°;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK08
IP Grade	IP66
Wiring	Quick plug-in IP65 connector
Dimensions	310 x 220 x 93.5 mm
Weight	5.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Operating temperature	-20°C +40°C
Network connection	Neoprene cable 0.3 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 90.000 hr
MATERIALS	
Fixing	By means of black painted steel bracket
Heatsink	Black anodized aluminium
Frame	Black painted steel; painted RAL 9005
Optics	Version 13/25/40°/AS Optical PMMA with high temperature and UV resistance
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



BUXUS 125 GENERAL CHARACTERISTICS	
Applications	Industrial and outdoor lighting
Optics	13: Rotosymmetric 13°; 25: Rotosymmetric 25°; AS: Asymmetric; A2: Asymmetrical 2; 40: Rotosymmetric 40°;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK08
IP Grade	IP66
Wiring	Quick plug-in IP65 connector
Dimensions	310 x 220 x 93.5 mm
Weight	5.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Operating temperature	-20°C +40°C
Network connection	Neoprene cable 0.3 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 90.000 hr
MATERIALS	
Fixing	By means of black painted steel bracket
Heatsink	Black anodized aluminium
Frame	Black painted steel; painted RAL 9005
Optics	Version 13/25/40°/AS Optical PMMA with high temperature and UV resistance
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



BUXUS 200 GENERAL CHARACTERISTICS	
Applications	Industrial and outdoor lighting
Optics	13: Rotosymmetric 13°; 25: Rotosymmetric 25°; AS: Asymmetric; A2: Asymmetrical 2; 40: Rotosymmetric 40°;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK08
IP Grade	IP66
Wiring	Quick plug-in IP65 connector
Dimensions	311 x 393 x 109 mm
Weight	10.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Operating temperature	-20°C +40°C
Network connection	Neoprene cable 0.3 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 90.000 hr
MATERIALS	
Fixing	By means of black painted steel bracket
Heatsink	Black anodized aluminium
Frame	Black painted steel; painted RAL 9005
Optics	Version 13/25/40°/AS Optical PMMA with high temperature and UV resistance
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

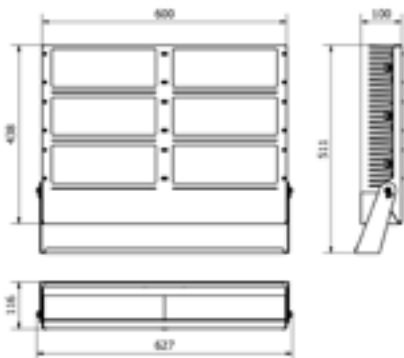
POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)							
Buxus 125 3			150 W		19800 lm		
CODING							
	LED colour	LED type	Optics Type	Finishes	Options	Power	
BUH	1	C	13	11	0	3	
	2		25		D		
	8		AS				
			A2				
			40				

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)						
Buxus 200 5			300 W		39600 lm	
CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
BUH	1	C	13	11	0	5
	2		25		D	
	8		AS			
			A2			
			40			



BUXUS 400 GENERAL CHARACTERISTICS	
Applications	Industrial and outdoor lighting
Optics	13: Rotosymmetric 13°; 25: Rotosymmetric 25°; AS: Asymmetric; A2: Asymmetrical 2; 40: Rotosymmetric 40°;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK08
IP Grade	IP66
Wiring	IP65 quick connector / Four IP65 quick connectors
Dimensions	627 x 393 x 11.6 mm
Weight	21 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Operating temperature	-20°C +40°C
Network connection	Neoprene cable 0.3 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 90.000 hr
MATERIALS	
Fixing	By means of black painted steel bracket
Heatsink	Black anodized aluminium
Frame	Black painted steel; painted RAL 9005
Optics	Version 13/25/40°/AS Optical PMMA with high temperature and UV resistance

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



BUXUS 600 GENERAL CHARACTERISTICS	
Applications	Industrial and outdoor lighting
Optics	13: Rotosymmetric 13°; 25: Rotosymmetric 25°; AS: Asymmetric; A2: Asymmetrical 2; 40: Rotosymmetric 40°;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Medium 75 on request Min. > 80 Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class I
Degree of protection	IK08
IP Grade	IP66
Wiring	IP65 quick connector / Four IP65 quick connectors
Dimensions	627 x 436 x 11.6 mm
Weight	30 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0.9 (at full load)
Control system	Power supplies with 1-10V dimming line or DALI on request
Operating temperature	-20°C +40°C
Network connection	Neoprene cable 0.3 m
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 90.000 hr
MATERIALS	
Fixing	By means of black painted steel bracket
Heatsink	Black anodized aluminium
Frame	Black painted steel; painted RAL 9005
Optics	Version 13/25/40°/AS Optical PMMA with high temperature and UV resistance
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

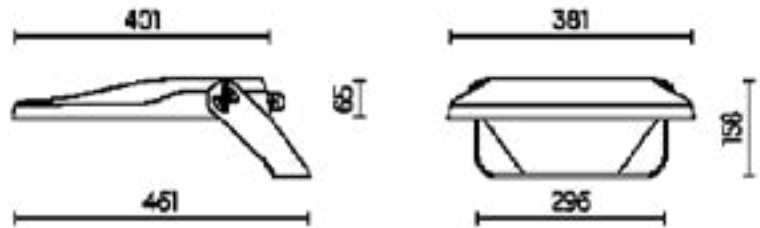
The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)						
Buxus 400 6			600 W		79200 lm	
CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
BUH	1	C	13	11	0	6
	2		25		D	
	8		AS			
			A2			
			40			

POWER AND FLUX* LUMINAIRE (T _{AMB} =25°C, T _C =4000K)						
Buxus 600 7			900 W		118800 lm	
CODING						
	LED colour	LED type	Optics Type	Finishes	Options	Power
BUH	1	C	13	11	0	7
	2		25		D	
	8		AS			
			A2			
			40			

Noesi





NOESI M GENERAL CHARACTERISTICS	
Applications	Outdoor lighting
Optics	E: Forward Wide E-L01; U: Roto-Wide U-V04; F: Front-Back V10; H: Asymmetric H-L12; 13: Rotosymmetric 13°; 25: Rotosymmetric 25°; 40: Rotosymmetric 40°;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80, on request 90 (LED type: B; flux multiplier 0.8) Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK09
IP Grade	IP66
Wiring	Quick plug-in IP65 connector
Dimensions	461 x 381 x 158 mm
Weight	6 kg
ELECTRICAL CHARACTERISTICS	
Power supply	120-270 V 50/60 Hz, 220-270 V su richiesta
Power factor	> 0,97 (at full load)
Control system	1-10V, "virtual midnight" automatic dimming system up to 5 steps, CLO and DALI-2 function; Zhaga 18 on request
Operating temperature	-20°C +50°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr @ tA max 50 °C
MATERIALS	
Fixing	By means of an aluminium bracket
Heatsink	Die-cast aluminium
Frame	Die-cast aluminium
Optics	Multi-layer PMMA lenses
Screen	Flat tempered glass 5 mm thick, resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



POWER AND OPTICAL FLUX E (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
NOMA_ _012_ _	61,6	8.906	145	61,6	8.563	139
NOMA_ _022_ _	94,0	13.094	139	94,0	12.589	134
NOMA_ _032_ _	137,0	18.078	132	137,0	17.382	127
POWER AND OPTICAL FLUX U (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
NOMA_ _012_ _	61,6	10.540	171	61,6	10.134	165
NOMA_ _022_ _	94,0	15.496	165	94,0	14.899	159
NOMA_ _032_ _	137,0	21.396	156	137,0	20.571	150
POWER AND OPTICAL FLUX F (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
NOMA_ _012_ _	61,6	9.950	162	61,6	9.566	155
NOMA_ _022_ _	94,0	14.627	156	94,0	14.064	150
NOMA_ _032_ _	137,0	20.196	147	137,0	19.418	142
POWER AND OPTICAL FLUX H (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
NOMA_ _012_ _	61,6	10.215	166	61,6	9.821	159
NOMA_ _022_ _	94,0	15.017	160	94,0	14.439	154
NOMA_ _032_ _	137,0	20.735	151	137,0	19.936	146
POWER AND OPTICAL FLUX 13 (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
NOMA_ _012_ _	61,6	8.562	139	61,6	8.049	131
NOMA_ _022_ _	94,0	13.066	139	94,0	12.282	131
NOMA_ _032_ _	137,0	19.043	139	137,0	17.900	131
POWER AND OPTICAL FLUX 25 (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
NOMA_ _012_ _	61,6	8.421	137	61,6	7.915	128
NOMA_ _022_ _	94,0	12.850	137	94,0	12.079	129
NOMA_ _032_ _	137,0	18.728	137	137,0	17.604	128

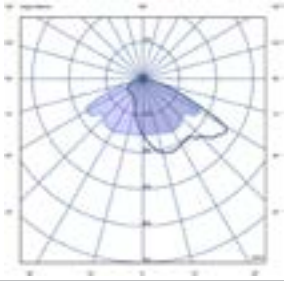
** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

POWER AND OPTICAL FLUX I 40 (T _{amb} =25°C)						
CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	
NOMA_ _012_ _	61,6	7.885		128	61,6	120
NOMA_ _022_ _	94,0	12.032		128	94,0	120
NOMA_ _032_ _	137,0	17.536		128	137,0	120

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

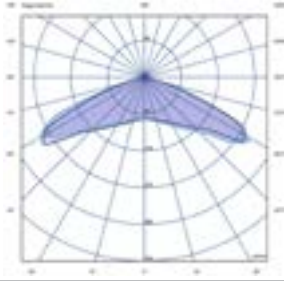
OPTICS

Forward Wide E-L01



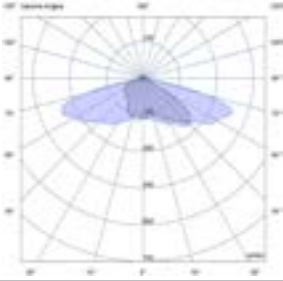
Asymmetrical optics - Very wide beam
L / H = 1,5-2,0

Roto-Wide U-V04



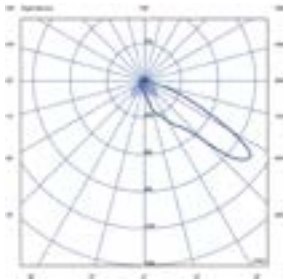
Rotosymmetrical road optics - Wide beam

Front-Back V10

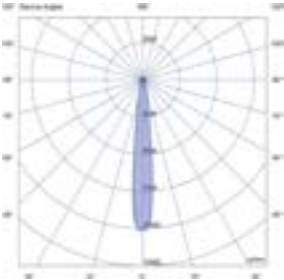


Asymmetrical Street Optics - Front-Back
L / H = 1,2 ÷ 1,5

Asymmetric H-L12

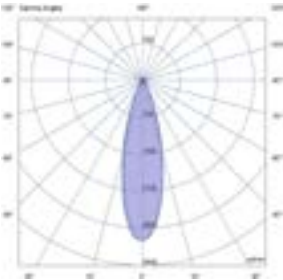


Rotosymmetric 13°



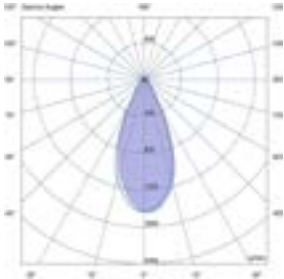
13° Rotosymmetrical Optics

Rotosymmetric 25°



25° Rotosymmetrical Optics

Rotosymmetric 40°



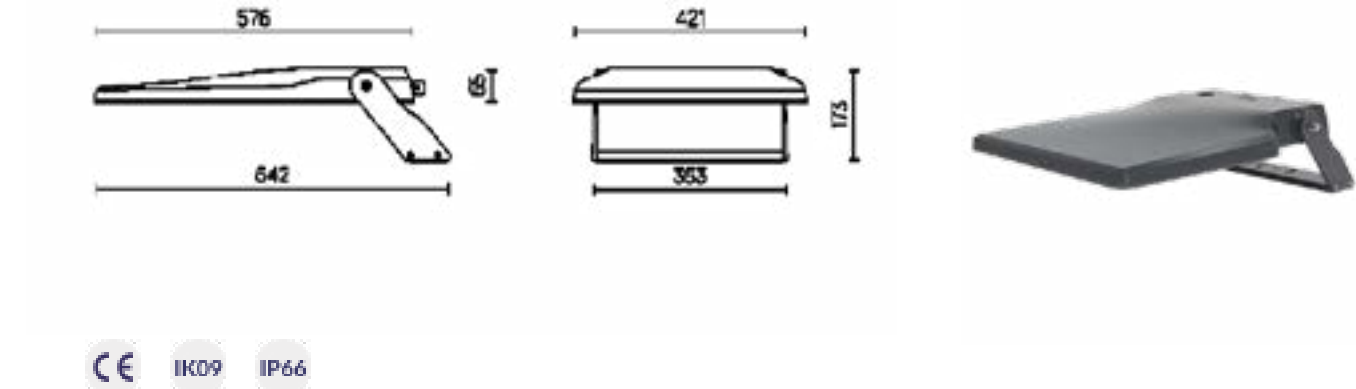
40° Rotosymmetrical Optics

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



CODING						
	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
NOM	R	8	XX	2	N	A
	E Forward Wide E-L01	2 Warm White 3,000K	01 61.6	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	U Roto-Wide U-V04	8 Neutral White 4,000K	02 94	Versions available on request	M Virtual Midnight**	B Extra Suppressor
	F Front-Back V10	Versions available on request	03 137		L Zhaga 18 + Virtual Midnight**	
	H Asymmetric H-L12				Y Zhaga 18 + Virtual Midnight** + CLO	
	13 Rotosymmetric 13°	1 Cool White 5,500K		1 Class I (120-270V)	Z Virtual Midnight** + CLO	
	25 Rotosymmetric 25°	9 Extra Warm White 2,200K				
	40 Rotosymmetric 40°					

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



NOESI L GENERAL CHARACTERISTICS	
Applications	Outdoor lighting
Optics	E: Forward Wide E-L01; U: Roto-Wide U-V04; F: Front-Back V10; H: Asymmetric H-L12; 13: Rotosymmetric 13°; 25: Rotosymmetric 25°; 40: Rotosymmetric 40°;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Min. > 80, on request 90 (LED type: B; flux multiplier 0.8) Colour tolerance between several luminaires Max. 5 MacAdam steps; on request 3 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK09
IP Grade	IP66
Wiring	Quick plug-in IP65 connector
Dimensions	642 x 421 x 173 mm
Weight	10 kg
ELECTRICAL CHARACTERISTICS	
Power supply	120-270 V 50/60 Hz, 220-270 V su richiesta
Power factor	> 0,97 (at full load)
Control system	1-10V, "virtual midnight" automatic dimming system up to 5 steps, CLO and DALI-2 function; Zhaga 18 on request
Operating temperature	-20°C +50°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr @ tA max 50 °C
MATERIALS	
Fixing	By means of an aluminium bracket
Heatsink	Die-cast aluminium
Frame	Die-cast aluminium
Optics	Multi-layer PMMA lenses
Screen	Flat tempered glass 5 mm thick, resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



Product Data Sheet

Outdoor lighting

POWER AND OPTICAL FLUX I E (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOLA_ _012_ _	172,0	24.127	140	172,0	23.197	135
NOLA_ _022_ _	239,0	32.228	135	239,0	30.987	130
NOLA_ _032_ _	291,0	38.092	131	291,0	36.624	126
POWER AND OPTICAL FLUX I U (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOLA_ _012_ _	172,0	28.554	166	172,0	27.454	160
NOLA_ _022_ _	239,0	38.141	160	239,0	36.672	153
NOLA_ _032_ _	291,0	45.081	155	291,0	43.344	149
POWER AND OPTICAL FLUX I F (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOLA_ _012_ _	172,0	26.953	157	172,0	25.914	151
NOLA_ _022_ _	239,0	36.003	151	239,0	34.616	145
NOLA_ _032_ _	291,0	42.554	146	291,0	40.914	141
POWER AND OPTICAL FLUX I H (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOLA_ _012_ _	172,0	27.671	161	172,0	26.605	155
NOLA_ _022_ _	239,0	36.963	155	239,0	35.539	149
NOLA_ _032_ _	291,0	43.688	150	291,0	42.005	144
POWER AND OPTICAL FLUX I 13 (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOLA_ _012_ _	172,0	23.908	139	172,0	22.474	131
NOLA_ _022_ _	239,0	33.221	139	239,0	31.228	131
NOLA_ _032_ _	291,0	40.449	139	291,0	38.022	131
POWER AND OPTICAL FLUX I 25 (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOLA_ _012_ _	172,0	23.512	137	172,0	22.102	129
NOLA_ _022_ _	239,0	32.671	137	239,0	30.711	128
NOLA_ _032_ _	291,0	39.780	137	291,0	37.393	128

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



Product Data Sheet

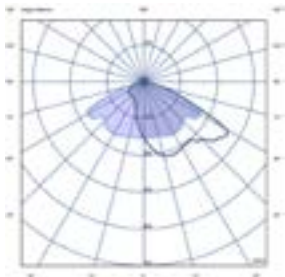
Outdoor lighting

POWER AND OPTICAL FLUX I 40 (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
NOLA_ _012_ _	172,0	22.016	128	172,0	20.695	120
NOLA_ _022_ _	239,0	30.592	128	239,0	28.756	120
NOLA_ _032_ _	291,0	37.248	128	291,0	35.013	120

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

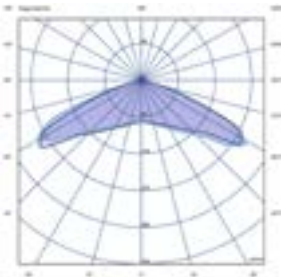
OPTICS

Forward Wide E-L01



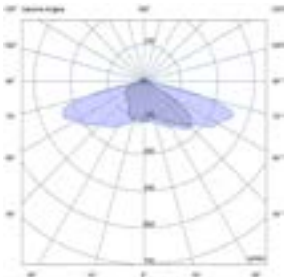
Asymmetrical optics - Very wide beam
L / H = 1,5-2,0

Roto-Wide U-V04



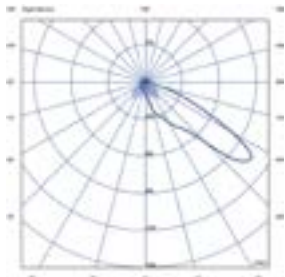
Rotosymmetrical road optics - Wide beam

Front-Back V10

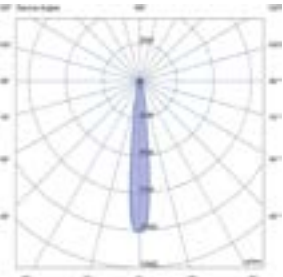


Asymmetrical Street Optics - Front-Back
L / H = 1,2 ÷ 1,5

Asymmetric H-L12

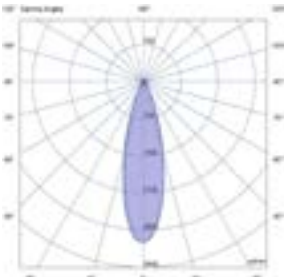


Rotosymmetrical 13°



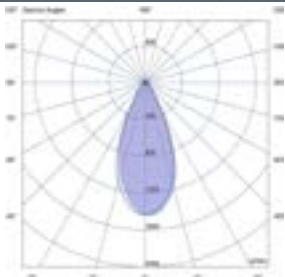
13° Rotosymmetrical Optics

Rotosymmetrical 25°



25° Rotosymmetrical Optics

Rotosymmetrical 40°



40° Rotosymmetrical Optics

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

CODING

	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
NOL	R	8	XX	2	N	A
	E Forward Wide E-L01	2 Warm White 3,000K	01 172	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	U Roto-Wide U-V04	8 Neutral White 4,000K	02 239	Versions available on request	M Virtual Midnight**	B Extra Suppressor
	F Front-Back V10	Versions available on request	03 291		Y Zhaga 18 + Virtual Midnight** + CLO	
	H Asymmetric H-L12	1 Cool White 5,500K		1 Class I (120-270V)	L Zhaga 18 + Virtual Midnight**	
	13 Rotosymmetrical 13°	9 Extra Warm White 2,200K			Z Virtual Midnight** + CLO	
	25 Rotosymmetrical 25°					
	40 Rotosymmetrical 40°					

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

Light for urban spaces

- _ Visual comfort
- _ Endless combinations



Light as a social experience

At GDS Lighting we explore and develop solutions and products that put the **adaptability of vision at the heart of public applications.**

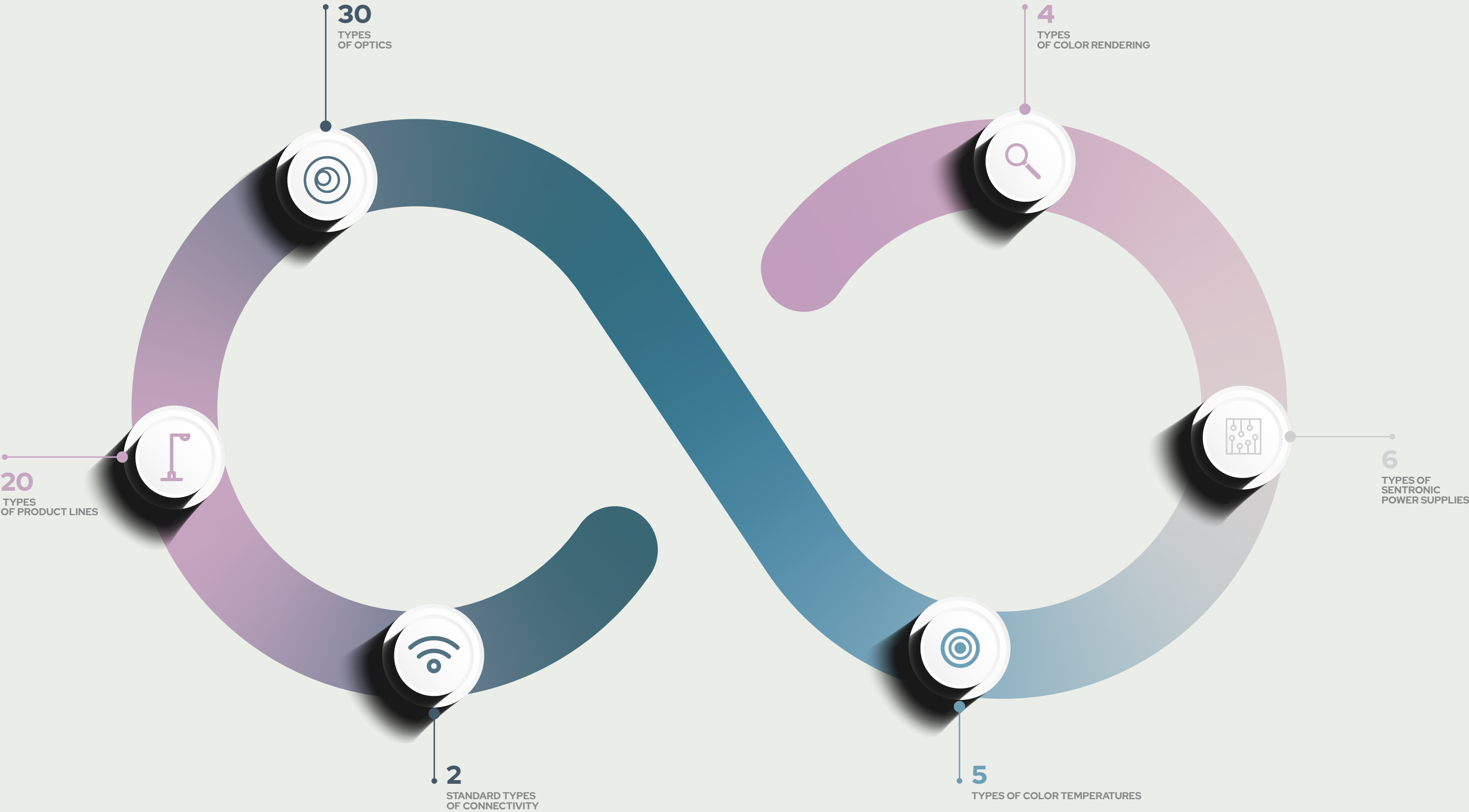
Advanced connectivity systems regulate the use and characteristics of light according to context conditions.

In this way, we can combine the needs of **energy efficiency** and **service to the community** with the comfort and well-being of people, while taking into account environmental conditions and social events.



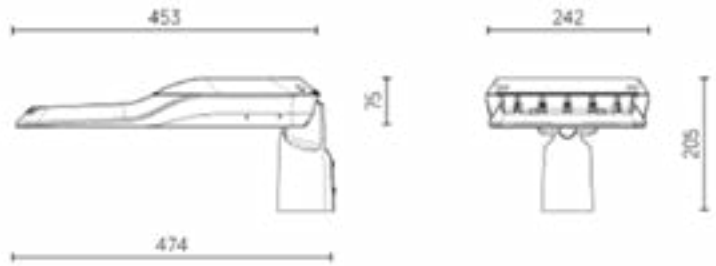
A solution for every need

Our **product range is wide and versatile** and enables us to create tailor-made solutions for each customer, because every project needs **flexibility and precision**.



Talede Plus





SLCS TALEDE PLUS GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	N: Narrow V14; R: Regular V25; W: Wide W-V07; D: Extra Wide V20; A: Regular Comfort A-V05; S: Symmetric S-SW07; E: Forward Wide E-L01; F: Front-Back V10; B: Wide B-V08;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K; 5: Warm White 2,700K; 9: Extra Warm White 2,200K; 1: Cool White 5,500K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires Max. 4 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK08
IP Grade	IP66
Wiring	Internal connections - tool-free access on request
Dimensions	480 x 243 x 203 mm
Weight	4.5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0,97 (at full load)
Control system	Automatic dimming system of the 'virtual midnight' type with up to 5 steps, CLO function. 1-10, DALI-2, Zhaga 18 on request
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr
MATERIALS	
Fixing	Post top and bracket mounting Suitable for 40 to 76 mm diameter poles Head/pole for vertical or horizontal poles, adjustable from -15° to +20°
Heatsink	Die-cast aluminium painted RAL 9007
Frame	Die-cast aluminium; Paint finish RAL 9007
Optics	Multi-layer PMMA lenses
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



POWER AND OPTICAL FLUX I N (T _{amb} =25°C)						
CODE	Power (W)	4000K Flux (lm)	Efficiency	Power (W)	3000K Flux (lm)	Efficiency
SLCSG_ _392_ _	13,1	1.980	151	13,2	1.892	143
SLCSG_ _402_ _	14,9	2.253	151	14,9	2.154	145
SLCSG_ _412_ _	17,7	2.610	147	17,7	2.519	142
SLCSG_ _422_ _	19,3	2.840	147	19,3	2.741	142
SLCSG_ _432_ _	21,4	3.115	146	21,3	3.006	141
SLCSG_ _442_ _	20,2	3.074	152	20,2	2.913	144
SLCSG_ _452_ _	24,7	3.729	151	24,7	3.533	143
SLCSG_ _462_ _	28,3	4.231	150	28,3	4.009	142
SLCSG_ _472_ _	32,1	4.736	148	32,1	4.487	140
SLCSG_ _482_ _	35,8	5.211	146	35,8	4.937	138
SLCSG_ _492_ _	37,8	5.466	145	37,8	5.180	137
SLCSG_ _502_ _	40,2	5.753	143	40,2	5.451	136
SLCSG_ _512_ _	34,4	5.169	150	34,4	4.927	143
SLCSG_ _522_ _	39,3	5.876	150	39,3	5.601	143
SLCSG_ _532_ _	46,3	6.836	148	46,3	6.516	141
SLCSG_ _542_ _	51,6	7.547	146	51,6	7.193	139
SLCSG_ _552_ _	57,7	8.316	144	57,7	7.927	137
SLCSG_ _562_ _	63,2	8.923	141	62,9	8.505	135

POWER AND OPTICAL FLUX I R (T _{amb} =25°C)						
CODE	Power (W)	4000K Flux (lm)	Efficiency	Power (W)	3000K Flux (lm)	Efficiency
SLCSG_ _392_ _	13,1	1.961	150	13,2	1.873	142
SLCSG_ _402_ _	14,9	2.231	150	14,9	2.133	143
SLCSG_ _412_ _	17,7	2.585	146	17,7	2.494	141
SLCSG_ _422_ _	19,3	2.813	146	19,3	2.715	141
SLCSG_ _432_ _	21,4	3.085	144	21,3	2.977	140
SLCSG_ _442_ _	20,2	3.042	151	20,2	2.908	144
SLCSG_ _452_ _	24,7	3.689	149	24,7	3.527	143
SLCSG_ _462_ _	28,3	4.186	148	28,3	4.001	141
SLCSG_ _472_ _	32,1	4.686	146	32,1	4.479	140
SLCSG_ _482_ _	35,8	5.155	144	35,8	4.928	138
SLCSG_ _492_ _	37,8	5.409	143	37,8	5.170	137
SLCSG_ _502_ _	40,2	5.692	142	40,2	5.441	135
SLCSG_ _512_ _	34,4	5.152	150	34,4	4.954	144
SLCSG_ _522_ _	39,3	5.857	149	39,3	5.632	143
SLCSG_ _532_ _	46,3	6.814	147	46,3	6.552	142
SLCSG_ _542_ _	51,6	7.522	146	51,6	7.233	140
SLCSG_ _552_ _	57,7	8.289	144	57,7	7.970	138
SLCSG_ _562_ _	63,2	8.894	141	62,9	8.552	136

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



Product Data Sheet

Street lighting

POWER AND OPTICAL FLUX I W (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
SLCSG_ _392_ _	13,1	1.982	151	13,2	1.894	143
SLCSG_ _402_ _	14,9	2.255	151	14,9	2.157	145
SLCSG_ _412_ _	17,7	2.613	148	17,7	2.522	142
SLCSG_ _422_ _	19,3	2.843	147	19,3	2.745	142
SLCSG_ _432_ _	21,4	3.118	146	21,3	3.010	141
SLCSG_ _442_ _	20,2	3.081	153	20,2	2.916	144
SLCSG_ _452_ _	24,7	3.737	151	24,7	3.536	143
SLCSG_ _462_ _	28,3	4.239	150	28,3	4.012	142
SLCSG_ _472_ _	32,1	4.746	148	32,1	4.491	140
SLCSG_ _482_ _	35,8	5.221	146	35,8	4.942	138
SLCSG_ _492_ _	37,8	5.478	145	37,8	5.184	137
SLCSG_ _502_ _	40,2	5.765	143	40,2	5.456	136
SLCSG_ _512_ _	34,4	5.177	150	34,4	4.987	145
SLCSG_ _522_ _	39,3	5.885	150	39,3	5.669	144
SLCSG_ _532_ _	46,3	6.847	148	46,3	6.596	142
SLCSG_ _542_ _	51,6	7.559	146	51,6	7.281	141
SLCSG_ _552_ _	57,7	8.329	144	57,7	8.024	139
SLCSG_ _562_ _	63,2	8.937	141	62,9	8.609	137
POWER AND OPTICAL FLUX I D (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
SLCSG_ _392_ _	13,1	1.974	151	13,2	1.876	142
SLCSG_ _402_ _	14,9	2.246	151	14,9	2.136	143
SLCSG_ _412_ _	17,7	2.602	147	17,7	2.498	141
SLCSG_ _422_ _	19,3	2.831	147	19,3	2.718	141
SLCSG_ _432_ _	21,4	3.105	145	21,3	2.981	140
SLCSG_ _442_ _	20,2	3.059	151	20,2	2.900	144
SLCSG_ _452_ _	24,7	3.710	150	24,7	3.518	142
SLCSG_ _462_ _	28,3	4.209	149	28,3	3.991	141
SLCSG_ _472_ _	32,1	4.712	147	32,1	4.467	139
SLCSG_ _482_ _	35,8	5.184	145	35,8	4.915	137
SLCSG_ _492_ _	37,8	5.439	144	37,8	5.157	136
SLCSG_ _502_ _	40,2	5.724	142	40,2	5.427	135
SLCSG_ _512_ _	34,4	5.128	149	34,4	4.935	143
SLCSG_ _522_ _	39,3	5.829	148	39,3	5.610	143
SLCSG_ _532_ _	46,3	6.782	146	46,3	6.527	141
SLCSG_ _542_ _	51,6	7.487	145	51,6	7.205	140
SLCSG_ _552_ _	57,7	8.250	143	57,7	7.940	138
SLCSG_ _562_ _	63,2	8.852	140	62,9	8.519	135

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



Product Data Sheet

Street lighting

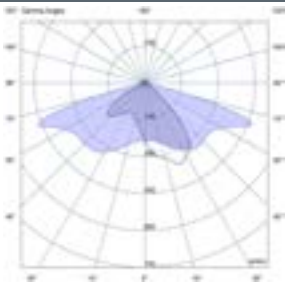
POWER AND OPTICAL FLUX I A (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
SLCSG_ _412_ _	17,7	2.613	148	17,7	2.515	142
SLCSG_ _422_ _	19,3	2.843	147	19,3	2.737	142
SLCSG_ _432_ _	21,4	3.118	146	21,3	3.002	141
SLCSG_ _442_ _	20,2	3.077	152	20,2	2.916	144
SLCSG_ _452_ _	24,7	3.732	151	24,7	3.537	143
SLCSG_ _462_ _	28,3	4.234	150	28,3	4.013	142
SLCSG_ _472_ _	32,1	4.740	148	32,1	4.492	140
SLCSG_ _482_ _	35,8	5.215	146	35,8	4.942	138
SLCSG_ _492_ _	37,8	5.471	145	37,8	5.185	137
SLCSG_ _502_ _	40,2	5.758	143	40,2	5.457	136
SLCSG_ _512_ _	34,4	5.170	150	34,4	4.967	144
SLCSG_ _522_ _	39,3	5.877	150	39,3	5.647	144
SLCSG_ _532_ _	46,3	6.838	148	46,3	6.570	142
SLCSG_ _542_ _	51,6	7.548	146	51,6	7.252	141
SLCSG_ _552_ _	57,7	8.318	144	57,7	7.992	139
SLCSG_ _562_ _	63,2	8.925	141	62,9	8.575	136
POWER AND OPTICAL FLUX I S (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
SLCSG_ _412_ _	17,7	2.665	151	17,7	2.557	144
SLCSG_ _422_ _	19,3	2.900	150	19,3	2.783	144
SLCSG_ _432_ _	21,4	3.180	149	21,3	3.052	143
SLCSG_ _442_ _	20,2	3.140	155	20,2	2.973	147
SLCSG_ _452_ _	24,7	3.808	154	24,7	3.606	146
SLCSG_ _462_ _	28,3	4.320	153	28,3	4.092	145
SLCSG_ _472_ _	32,1	4.836	151	32,1	4.580	143
SLCSG_ _482_ _	35,8	5.321	149	35,8	5.039	141
SLCSG_ _492_ _	37,8	5.582	148	37,8	5.287	140
SLCSG_ _502_ _	40,2	5.875	146	40,2	5.564	138
SLCSG_ _512_ _	34,4	5.275	153	34,4	5.063	147
SLCSG_ _522_ _	39,3	5.997	153	39,3	5.756	146
SLCSG_ _532_ _	46,3	6.976	151	46,3	6.696	145
SLCSG_ _542_ _	51,6	7.702	149	51,6	7.392	143
SLCSG_ _552_ _	57,7	8.487	147	57,7	8.146	141
SLCSG_ _562_ _	63,2	9.106	144	62,9	8.740	139

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



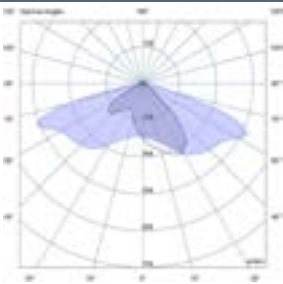
OPTICS

Narrow V14



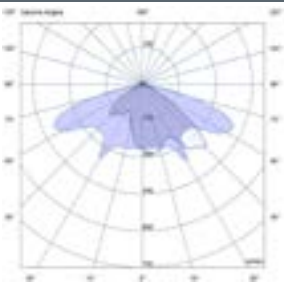
Asymmetrical street optics - Narrow beam
L / H = 0,5 ÷ 0,9

Regular V25



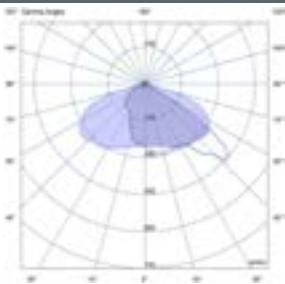
Asymmetrical street optics - Medium beam
L / H = 0,9 ÷ 1,1

Wide W-V07



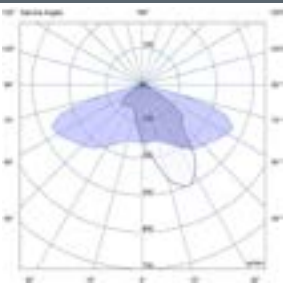
Asymmetrical street optics - Wide beam
L / H = 1,1 ÷ 1,3

Extra Wide V20



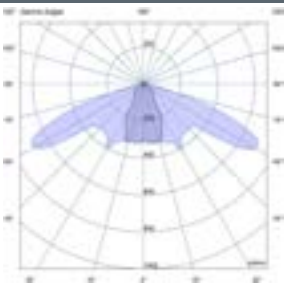
Asymmetrical optics - Very wide beam
L / H = 1,3 ÷ 1,6

Regular Comfort A-V05



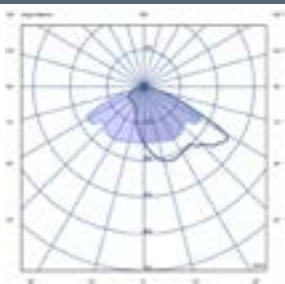
Asymmetrical Optics - Comfort
L / H = 1,0

Symmetic S-SW07



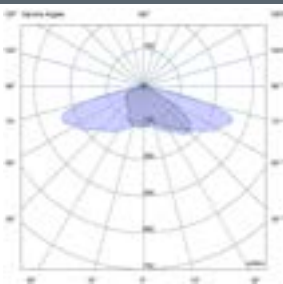
Symmetrical Optics
L / H = 1,0

Forward Wide E-L01



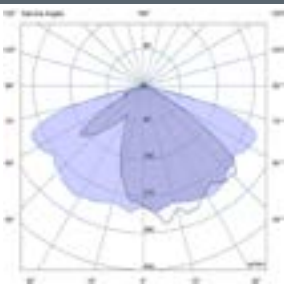
Asymmetrical optics - Very wide beam
L / H = 1,5-2,0

Front-Back V10



Asymmetrical Street Optics - Front-Back
L / H = 1,2 ÷ 1,5

Wide B-V08

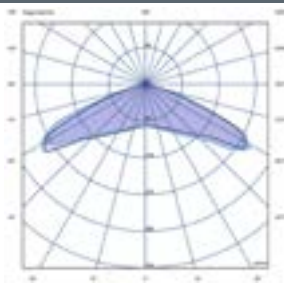


Asymmetrical street optics - Wide beam
L / H = 1,2 ÷ 1,5

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

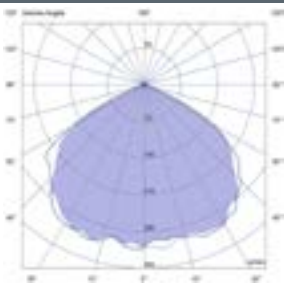


Roto-Wide U-V04



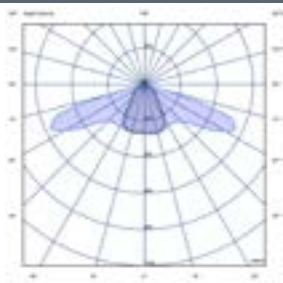
Rotosymmetrical road optics - Wide beam

Rotosimmetric C-V03



Rotosymmetrical road optics - Medium beam

Symmetric Z-L04



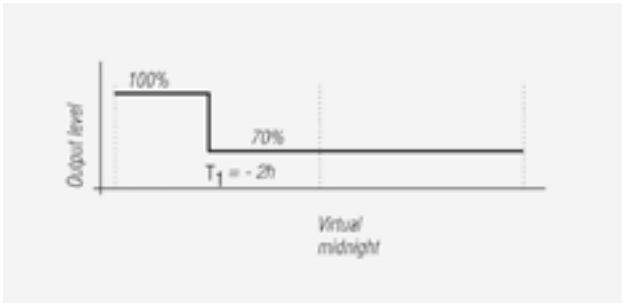
Symmetrical street optics - Medium beam
L / H = 1,2

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



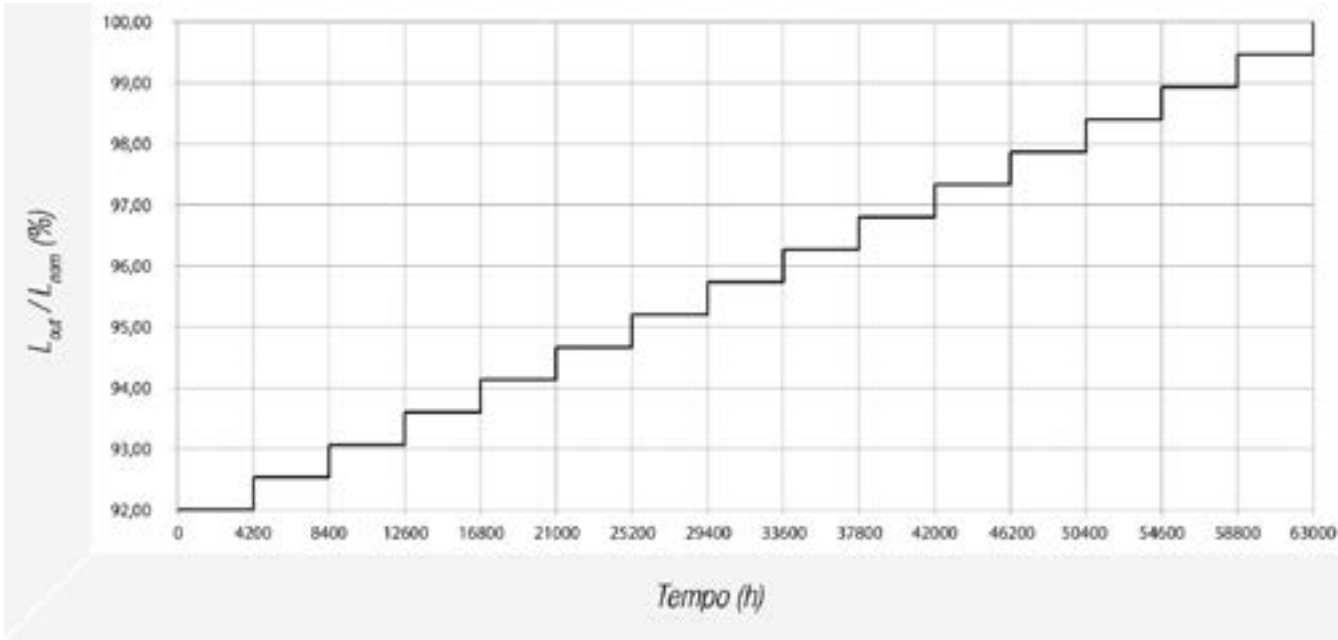
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please contact the sales department.

STANDARD CLO PROFILE



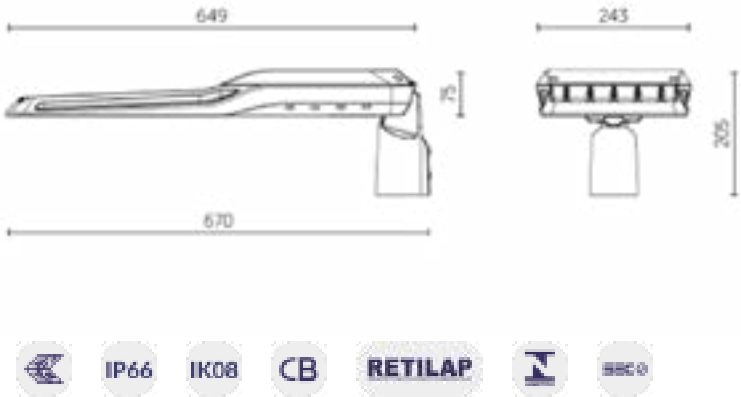
** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



CODING

	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
SLCSG	R	8	XX	2	N	A
	N Narrow V14	2 Warm White 3,000K	39 13.1	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	R Regular V25	8 Neutral White 4,000K	40 14.9		M Virtual Midnight**	B Extra Suppressor
	W Wide W-V07	5 Warm White 2,700K	41 17.7		Z Virtual Midnight** + CLO	L Standard Surge Protection
	D Extra Wide V20	9 Extra Warm White 2,200K	42 19.3		L Zhaga 18 + Virtual Midnight**	
	A Regular Comfort A-V05	1 Cool White 5,500K	43 21.4		Y Zhaga 18 + Virtual Midnight** + CLO	
	S Symmetric S-SW07		44 20.2			
	E Forward Wide E-L01		45 24.7			
	F Front-Back V10		46 28.3			
	B Wide B-V08		47 32.1			
			48 35.8			
			49 37.8			
			50 40.2			
			51 34.4			
			52 39.3			
			53 46.3			
			54 51.6			
			55 57.7			
			56 63.2			

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



SLCM | TALEDE PLUS
GENERAL CHARACTERISTICS

Applications	Street lighting
Optics	A: Regular Comfort A-V05; D: Extra Wide V20; N: Narrow V14; R: Regular V25; S: Symmetric S-SW07; W: Wide W-V07;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires Max. 4 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK08
IP Grade	IP66
Wiring	Internal connections - tool-free access on request
Dimensions	676 x 244 x 204 mm
Weight	6.8 kg

ELECTRICAL CHARACTERISTICS

Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0,97 (at full load)
Control system	Automatic dimming system of the 'virtual midnight' type with up to 5 steps, CLO function. 1-10, DALI-2, Zhaga 18 on request
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr

MATERIALS

Fixing	Post top and bracket mounting Suitable for 40 to 76 mm diameter poles Head/pole for vertical or horizontal poles, adjustable from -15° to +20°
Heatsink	Die-cast aluminium painted RAL 9007
Frame	Die-cast aluminium; Paint finish RAL 9007
Optics	Multi-layer PMMA lenses
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



POWER AND OPTICAL FLUX I A
(T_{amb}=25°C)

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
SLCMG_ _012_ _	53,8	8.163	152	54,0	7.835	145
SLCMG_ _022_ _	61,8	9.259	150	61,9	8.887	144
SLCMG_ _032_ _	68,2	9.856	145	68,3	9.460	139
SLCMG_ _042_ _	75,9	10.864	143	76,0	10.428	137
SLCMG_ _052_ _	82,4	11.687	142	82,5	11.217	136
SLCMG_ _062_ _	92,1	12.864	140	92,1	12.347	134
SLCMG_ _072_ _	85,8	12.716	148	86,0	12.173	142
SLCMG_ _082_ _	96,0	14.042	146	96,0	13.442	140
SLCMG_ _092_ _	101,1	14.706	145	101,2	14.078	139
SLCMG_ _102_ _	111,0	16.052	145	110,7	15.367	139

POWER AND OPTICAL FLUX I D
(T_{amb}=25°C)

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
SLCMG_ _012_ _	53,8	8.160	152	54,0	7.818	145
SLCMG_ _022_ _	61,8	9.257	150	61,9	8.868	143
SLCMG_ _032_ _	68,2	9.853	144	68,3	9.439	138
SLCMG_ _042_ _	75,9	10.861	143	76,0	10.405	137
SLCMG_ _052_ _	82,4	11.683	142	82,5	11.193	136
SLCMG_ _062_ _	92,1	12.860	140	92,1	12.320	134
SLCMG_ _072_ _	85,8	12.739	148	86,0	12.178	142
SLCMG_ _082_ _	96,0	14.067	147	96,0	13.448	140
SLCMG_ _092_ _	101,1	14.732	146	101,2	14.084	139
SLCMG_ _102_ _	111,0	16.081	145	110,7	15.373	139

POWER AND OPTICAL FLUX I N
(T_{amb}=25°C)

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
SLCMG_ _012_ _	53,8	8.135	151	54,0	7.816	145
SLCMG_ _032_ _	68,2	9.822	144	68,3	9.437	138
SLCMG_ _042_ _	75,9	10.827	143	76,0	10.402	137
SLCMG_ _052_ _	82,4	11.647	141	82,5	11.190	136
SLCMG_ _062_ _	92,1	12.820	139	92,1	12.317	134
SLCMG_ _072_ _	85,8	12.690	148	86,0	12.083	141
SLCMG_ _082_ _	96,0	14.014	146	96,0	13.343	139
SLCMG_ _092_ _	101,1	14.677	145	101,2	13.974	138
SLCMG_ _102_ _	111,0	16.020	144	110,7	15.253	138

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



POWER AND OPTICAL FLUX I R
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	
SLCMG_ _012_ _	53,8	8.202		152	54,0	146
SLCMG_ _022_ _	61,8	9.299		150	61,9	144
SLCMG_ _032_ _	68,2	9.898		145	68,3	139
SLCMG_ _042_ _	75,9	10.911		144	76,0	138
SLCMG_ _052_ _	82,4	11.737		142	82,5	137
SLCMG_ _062_ _	92,1	12.919		140	92,1	135
SLCMG_ _072_ _	85,8	12.843		150	86,0	143
SLCMG_ _082_ _	96,0	14.182		148	96,0	142
SLCMG_ _092_ _	101,1	14.853		147	101,2	141
SLCMG_ _102_ _	111,0	16.213		146	110,7	140

POWER AND OPTICAL FLUX I S
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	
SLCMG_ _012_ _	53,8	8.288		154	54,0	148
SLCMG_ _022_ _	61,8	9.401		152	61,9	146
SLCMG_ _032_ _	68,2	10.007		147	68,3	141
SLCMG_ _042_ _	75,9	11.031		145	76,0	140
SLCMG_ _052_ _	82,4	11.866		144	82,5	138
SLCMG_ _062_ _	92,1	13.061		142	92,1	136
SLCMG_ _072_ _	85,8	12.955		151	86,0	144
SLCMG_ _082_ _	96,0	14.306		149	96,0	143
SLCMG_ _092_ _	101,1	14.983		148	101,2	142
SLCMG_ _102_ _	111,0	16.354		147	110,7	141

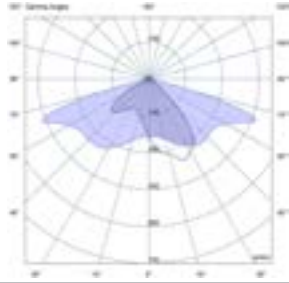
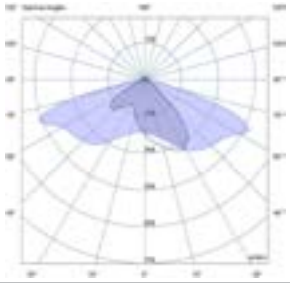
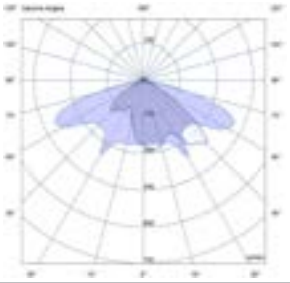
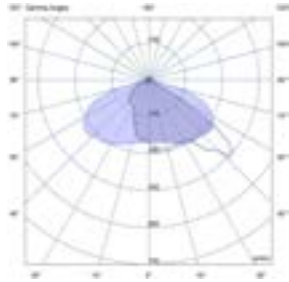
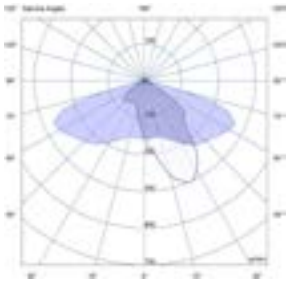
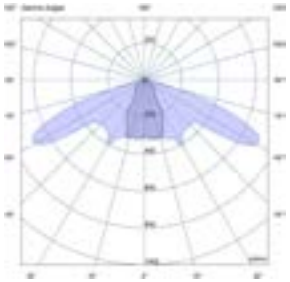
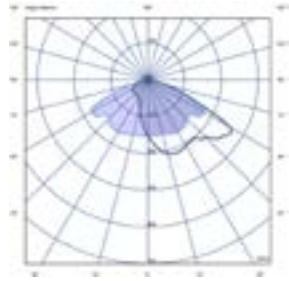
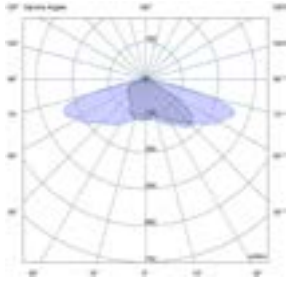
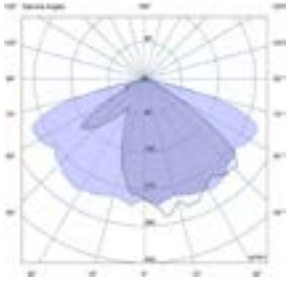
POWER AND OPTICAL FLUX I W
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	
SLCMG_ _012_ _	53,8	8.208		153	54,0	146
SLCMG_ _022_ _	61,8	9.310		151	61,9	144
SLCMG_ _032_ _	68,2	9.910		145	68,3	139
SLCMG_ _042_ _	75,9	10.924		144	76,0	138
SLCMG_ _052_ _	82,4	11.751		143	82,5	137
SLCMG_ _062_ _	92,1	12.935		140	92,1	135
SLCMG_ _072_ _	85,8	12.836		150	86,0	143
SLCMG_ _082_ _	96,0	14.175		148	96,0	141
SLCMG_ _092_ _	101,1	14.845		147	101,2	140
SLCMG_ _102_ _	111,0	16.204		146	110,7	140

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



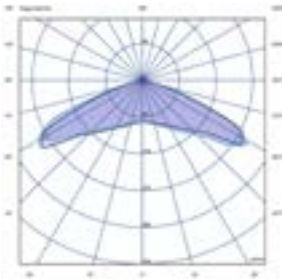
OPTICS

Narrow V14   Asymmetrical street optics - Narrow beam L / H = 0,5 ÷ 0,9	Regular V25   Asymmetrical street optics - Medium beam L / H = 0,9 ÷ 1,1	Wide W-V07   Asymmetrical street optics - Wide beam L / H = 1,1 ÷ 1,3
Extra Wide V20   Asymmetrical optics - Very wide beam L / H = 1,3 ÷ 1,6	Regular Comfort A-V05   Asymmetrical Optics - Comfort L / H = 1,0	Symmetric S-SW07   Symmetrical Optics L / H = 1,0
Forward Wide E-L01   Asymmetrical optics - Very wide beam L / H = 1,5-2,0	Front-Back V10   Asymmetrical Street Optics - Front-Back L / H = 1,2 ÷ 1,5	Wide B-V08   Asymmetrical street optics - Wide beam L / H = 1,2 ÷ 1,5

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

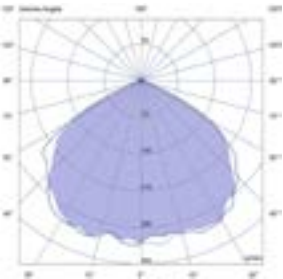


Roto-Wide U-V04



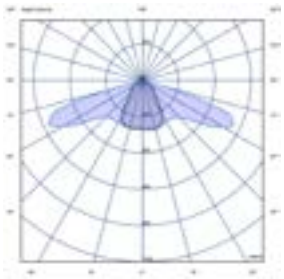
Rotosymmetrical road optics - Wide beam

Rotosymmetric C-V03



Rotosymmetrical road optics - Medium beam

Symmetric Z-L04



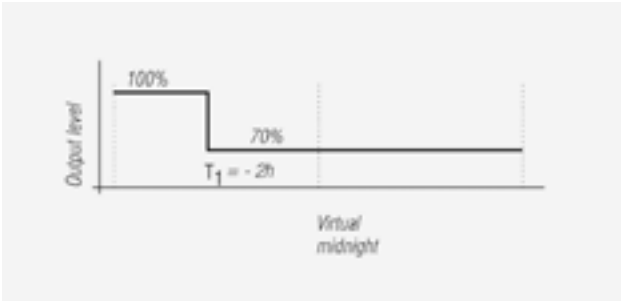
Symmetrical street optics - Medium beam
L / H = 1,2

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



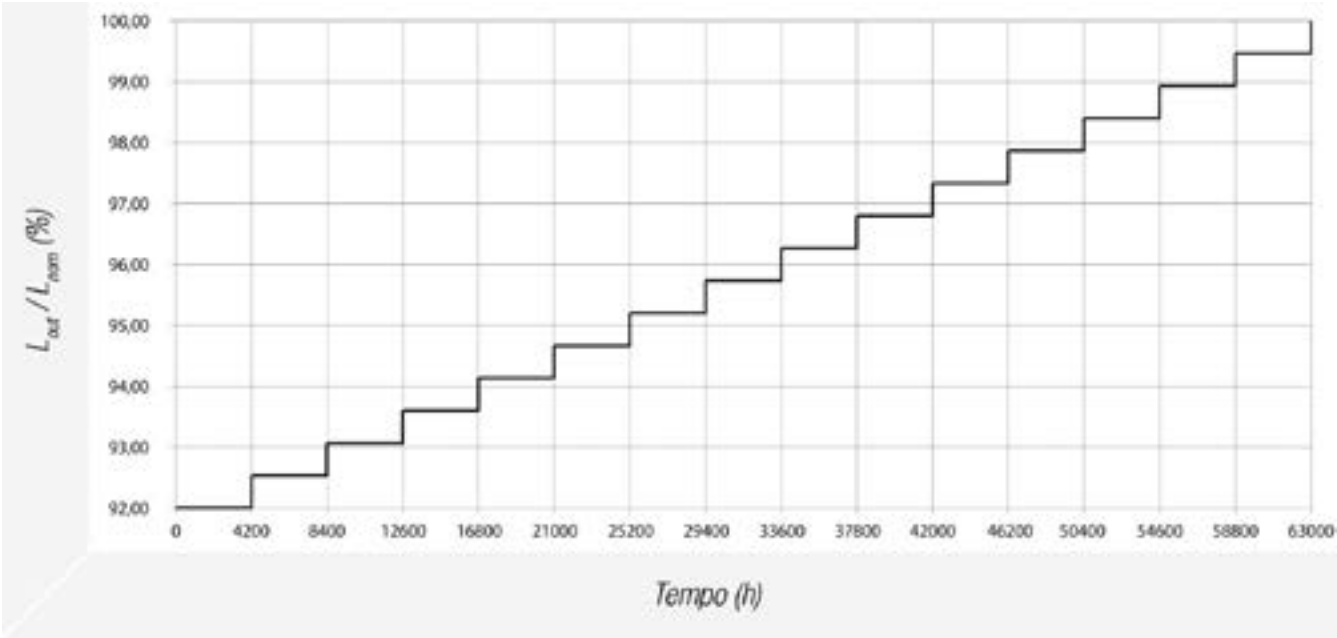
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please
contact the sales department.

STANDARD CLO PROFILE



** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



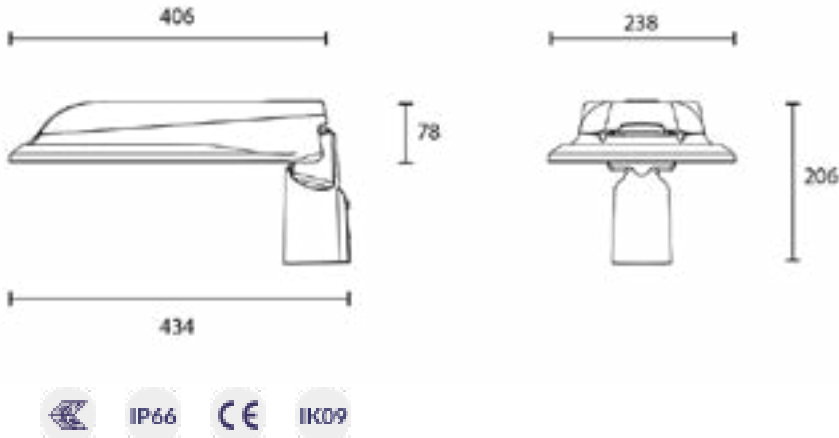
CODING							
	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various	
SLCMG	R	8	XX	2	N	A	
	A Regular Comfort A-V05	2 Warm White 3,000K	01 53.8	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection	
	D Extra Wide V20	8 Neutral White 4,000K	02 61.8	Versions available on request 1 Class I (120-270V)	M Virtual Midnight**	B Extra Suppressor	
	N Narrow V14	Versions available on request	03 68.2		Z Virtual Midnight** + CLO	L Standard Surge Protection	
	R Regular V25		04 75.9		L Zhaga 18 + Virtual Midnight**		
	S Symmetric S-SW07		05 82.4		Y Zhaga 18 + Virtual Midnight** + CLO		
	W Wide W-V07		06 92.1				
		07 85.8					
		08 96					
		9 Extra Warm White 2,200K	09 101.1				
			10 111				

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



MaXimo





MAXIMO S GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	N: Narrow V14; R: Regular V25; W: Wide W-V07; D: Extra Wide V20; A: Regular Comfort A-V05; S: Symmetric S-SW07; E: Forward Wide E-L01; F: Front-Back V10; B: Wide B-V08; U: Roto-Wide U-V04; C: Rotosymmetric C-V03; Z: Symmetric Z-L04; M: M-L10;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires Max. 4 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK09
IP Grade	IP66
Wiring	Internal connections - accessibility without tools
Dimensions	434 x 238 x 206 mm
Weight	4 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0.98 (full load)
Control system	Automatic dimming system of the 'virtual midnight' type with up to 5 steps, CLO function. 1-10, DALI-2, Zhaga 18 on request
Overvoltage protection	12kV differential mode, 12kV common mode, SPD 5kA on request
Operating temperature	-20°C +50°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr
MATERIALS	
Fixing	Suitable for 40 to 76 mm diameter poles
Heatsink	Die-cast aluminum; painted RAL 9007
Frame	Die-cast aluminum; painted RAL 9007
Optics	Multi-layer PMMA lenses
Screen	Flat tempered glass 5 mm thick, resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



POWER AND OPTICAL FLUX I N (T _{amb} =25°C)						
		4000K		3000K		
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
MXSG_ _012_ _	12,9	1.964	152	12,9	1.886	146
MXSG_ _022_ _	15,4	2.384	155	15,4	2.288	149
MXSG_ _032_ _	17,6	2.714	154	17,6	2.606	148
MXSG_ _042_ _	20,6	3.257	158	20,6	3.023	147
MXSG_ _052_ _	23,8	3.775	159	23,8	3.518	148
MXSG_ _062_ _	27,4	4.345	159	27,4	4.049	148
MXSG_ _072_ _	31,7	5.006	158	31,7	4.629	146
MXSG_ _082_ _	35,4	5.567	157	35,4	5.188	147
MXSG_ _092_ _	39,4	6.123	155	39,4	5.707	145
MXSG_ _102_ _	44,8	6.922	155	44,8	6.451	144
MXSG_ _B02_ _	49,3	7.575	154	49,3	7.109	144
MXSG_ _112_ _	53,6	8.198	153	53,6	7.747	145

POWER AND OPTICAL FLUX I R (T _{amb} =25°C)						
		4000K		3000K		
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
MXSG_ _012_ _	12,9	1.958	152	12,9	1.881	146
MXSG_ _022_ _	15,4	2.377	154	15,4	2.281	148
MXSG_ _032_ _	17,6	2.706	154	17,6	2.599	148
MXSG_ _042_ _	20,6	3.228	157	20,6	3.006	146
MXSG_ _052_ _	23,8	3.741	157	23,8	3.499	147
MXSG_ _062_ _	27,4	4.305	157	27,4	4.027	147
MXSG_ _072_ _	31,7	4.961	156	31,7	4.604	145
MXSG_ _082_ _	35,4	5.517	156	35,4	5.160	146
MXSG_ _092_ _	39,4	6.068	154	39,4	5.676	144
MXSG_ _102_ _	44,8	6.859	153	44,8	6.416	143
MXSG_ _B02_ _	49,3	7.507	152	49,3	7.070	143
MXSG_ _112_ _	53,6	8.124	152	53,6	7.705	144

POWER AND OPTICAL FLUX I W (T _{amb} =25°C)						
		4000K		3000K		
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
MXSG_ _012_ _	12,9	1.990	154	12,9	1.912	148
MXSG_ _022_ _	15,4	2.416	157	15,4	2.319	151
MXSG_ _032_ _	17,6	2.750	156	17,6	2.642	150
MXSG_ _042_ _	20,6	3.268	159	20,6	3.045	148
MXSG_ _052_ _	23,8	3.787	159	23,8	3.545	149
MXSG_ _062_ _	27,4	4.359	159	27,4	4.080	149
MXSG_ _072_ _	31,7	5.024	158	31,7	4.665	147
MXSG_ _082_ _	35,4	5.586	158	35,4	5.229	148
MXSG_ _092_ _	39,4	6.143	156	39,4	5.751	146
MXSG_ _102_ _	44,8	6.945	155	44,8	6.501	145
MXSG_ _B02_ _	49,3	7.600	154	49,3	7.164	145
MXSG_ _112_ _	53,6	8.225	153	53,6	7.807	146

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



Product Data Sheet

Street lighting

Product Data Sheet

Street lighting

POWER AND OPTICAL FLUX I D
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
MXSG_ _012_ _	12,9	1.985	154	12,9	1.908	148	
MXSG_ _022_ _	15,4	2.410	156	15,4	2.312	150	
MXSG_ _032_ _	17,6	2.744	156	17,6	2.635	150	
MXSG_ _042_ _	20,6	3.263	158	20,6	3.035	147	
MXSG_ _052_ _	23,8	3.781	159	23,8	3.532	148	
MXSG_ _062_ _	27,4	4.352	159	27,4	4.066	148	
MXSG_ _072_ _	31,7	5.015	158	31,7	4.648	147	
MXSG_ _082_ _	35,4	5.577	158	35,4	5.210	147	
MXSG_ _092_ _	39,4	6.133	156	39,4	5.730	145	
MXSG_ _102_ _	44,8	6.933	155	44,8	6.477	145	
MXSG_ _B02_ _	49,3	7.587	154	49,3	7.138	145	
MXSG_ _112_ _	53,6	8.211	153	53,6	7.780	145	

POWER AND OPTICAL FLUX I A
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
MXSG_ _012_ _	12,9	2.004	155	12,9	1.925	149	
MXSG_ _022_ _	15,4	2.432	158	15,4	2.335	152	
MXSG_ _032_ _	17,6	2.770	157	17,6	2.660	151	
MXSG_ _042_ _	20,6	3.303	160	20,6	3.075	149	
MXSG_ _052_ _	23,8	3.828	161	23,8	3.579	150	
MXSG_ _062_ _	27,4	4.406	161	27,4	4.119	150	
MXSG_ _072_ _	31,7	5.077	160	31,7	4.710	149	
MXSG_ _082_ _	35,4	5.646	159	35,4	5.279	149	
MXSG_ _092_ _	39,4	6.209	158	39,4	5.806	147	
MXSG_ _102_ _	44,8	7.019	157	44,8	6.563	146	
MXSG_ _B02_ _	49,3	7.682	156	49,3	7.233	147	
MXSG_ _112_ _	53,6	8.313	155	53,6	7.882	147	

POWER AND OPTICAL FLUX I S
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
MXSG_ _012_ _	12,9	1.968	153	12,9	1.890	147	
MXSG_ _022_ _	15,4	2.389	155	15,4	2.292	149	
MXSG_ _032_ _	17,6	2.720	155	17,6	2.612	148	
MXSG_ _042_ _	20,6	3.244	157	20,6	3.021	147	
MXSG_ _052_ _	23,8	3.760	158	23,8	3.516	148	
MXSG_ _062_ _	27,4	4.327	158	27,4	4.047	148	
MXSG_ _072_ _	31,7	4.986	157	31,7	4.627	146	
MXSG_ _082_ _	35,4	5.545	157	35,4	5.186	146	
MXSG_ _092_ _	39,4	6.098	155	39,4	5.704	145	
MXSG_ _102_ _	44,8	6.893	154	44,8	6.448	144	
MXSG_ _B02_ _	49,3	7.544	153	49,3	7.106	144	
MXSG_ _112_ _	53,6	8.165	152	53,6	7.743	144	

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

POWER AND OPTICAL FLUX I E
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
MXSG_ _012_ _	12,9	1.909	148	12,9	1.834	142	
MXSG_ _022_ _	15,4	2.318	151	15,4	2.224	144	
MXSG_ _032_ _	17,6	2.638	150	17,6	2.534	144	
MXSG_ _042_ _	20,6	3.147	153	20,6	2.930	142	
MXSG_ _052_ _	23,8	3.647	153	23,8	3.412	143	
MXSG_ _062_ _	27,4	4.197	153	27,4	3.926	143	
MXSG_ _072_ _	31,7	4.837	153	31,7	4.489	142	
MXSG_ _082_ _	35,4	5.379	152	35,4	5.031	142	
MXSG_ _092_ _	39,4	5.916	150	39,4	5.534	140	
MXSG_ _102_ _	44,8	6.688	149	44,8	6.256	140	
MXSG_ _B02_ _	49,3	7.319	148	49,3	6.894	140	
MXSG_ _112_ _	53,6	7.921	148	53,6	7.512	140	

POWER AND OPTICAL FLUX I F
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
MXSG_ _012_ _	12,9	1.982	154	12,9	1.905	148	
MXSG_ _022_ _	15,4	2.407	156	15,4	2.309	150	
MXSG_ _032_ _	17,6	2.740	156	17,6	2.631	149	
MXSG_ _042_ _	20,6	3.223	156	20,6	3.040	148	
MXSG_ _052_ _	23,8	3.734	157	23,8	3.538	149	
MXSG_ _062_ _	27,4	4.298	157	27,4	4.073	149	
MXSG_ _072_ _	31,7	4.953	156	31,7	4.656	147	
MXSG_ _082_ _	35,4	5.508	156	35,4	5.219	147	
MXSG_ _092_ _	39,4	6.058	154	39,4	5.740	146	
MXSG_ _102_ _	44,8	6.848	153	44,8	6.488	145	
MXSG_ _B02_ _	49,3	7.495	152	49,3	7.150	145	
MXSG_ _112_ _	53,6	8.111	151	53,6	7.793	145	

POWER AND OPTICAL FLUX I B
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
MXSG_ _012_ _	12,9	1.957	152	12,9	1.880	146	
MXSG_ _022_ _	15,4	2.376	154	15,4	2.279	148	
MXSG_ _032_ _	17,6	2.704	154	17,6	2.597	148	
MXSG_ _042_ _	20,6	3.226	157	20,6	3.004	146	
MXSG_ _052_ _	23,8	3.739	157	23,8	3.497	147	
MXSG_ _062_ _	27,4	4.302	157	27,4	4.025	147	
MXSG_ _072_ _	31,7	4.958	156	31,7	4.601	145	
MXSG_ _082_ _	35,4	5.514	156	35,4	5.157	146	
MXSG_ _092_ _	39,4	6.064	154	39,4	5.673	144	
MXSG_ _102_ _	44,8	6.855	153	44,8	6.412	143	
MXSG_ _B02_ _	49,3	7.502	152	49,3	7.066	143	
MXSG_ _112_ _	53,6	8.119	151	53,6	7.700	144	

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



Product Data Sheet

Street lighting

POWER AND OPTICAL FLUX I U
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
MXSG_ _012_ _	12,9	2.003	155	12,9	1.924	149	
MXSG_ _022_ _	15,4	2.432	158	15,4	2.333	151	
MXSG_ _032_ _	17,6	2.768	157	17,6	2.658	151	
MXSG_ _042_ _	20,6	3.302	160	20,6	3.075	149	
MXSG_ _052_ _	23,8	3.827	161	23,8	3.579	150	
MXSG_ _062_ _	27,4	4.404	161	27,4	4.120	150	
MXSG_ _072_ _	31,7	5.075	160	31,7	4.710	149	
MXSG_ _082_ _	35,4	5.644	159	35,4	5.279	149	
MXSG_ _092_ _	39,4	6.208	158	39,4	5.806	147	
MXSG_ _102_ _	44,8	7.017	157	44,8	6.564	147	
MXSG_ _B02_ _	49,3	7.679	156	49,3	7.233	147	
MXSG_ _112_ _	53,6	8.311	155	53,6	7.882	147	

POWER AND OPTICAL FLUX I C
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
MXSG_ _012_ _	12,9	2.016	156	12,9	1.937	150	
MXSG_ _022_ _	15,4	2.448	159	15,4	2.349	153	
MXSG_ _032_ _	17,6	2.786	158	17,6	2.676	152	
MXSG_ _042_ _	20,6	3.324	161	20,6	3.095	150	
MXSG_ _052_ _	23,8	3.852	162	23,8	3.603	151	
MXSG_ _062_ _	27,4	4.433	162	27,4	4.147	151	
MXSG_ _072_ _	31,7	5.108	161	31,7	4.741	150	
MXSG_ _082_ _	35,4	5.681	160	35,4	5.313	150	
MXSG_ _092_ _	39,4	6.248	159	39,4	5.845	148	
MXSG_ _102_ _	44,8	7.063	158	44,8	6.606	147	
MXSG_ _B02_ _	49,3	7.730	157	49,3	7.280	148	
MXSG_ _112_ _	53,6	8.365	156	53,6	7.933	148	

POWER AND OPTICAL FLUX I Z
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
MXSG_ _012_ _	12,9	2.028	157	12,9	1.948	151	
MXSG_ _022_ _	15,4	2.462	160	15,4	2.362	153	
MXSG_ _032_ _	17,6	2.802	159	17,6	2.691	153	
MXSG_ _042_ _	20,6	3.343	162	20,6	3.113	151	
MXSG_ _052_ _	23,8	3.874	163	23,8	3.624	152	
MXSG_ _062_ _	27,4	4.458	163	27,4	4.171	152	
MXSG_ _072_ _	31,7	5.138	162	31,7	4.768	150	
MXSG_ _082_ _	35,4	5.714	161	35,4	5.344	151	
MXSG_ _092_ _	39,4	6.284	159	39,4	5.878	149	
MXSG_ _102_ _	44,8	7.104	159	44,8	6.645	148	
MXSG_ _B02_ _	49,3	7.774	158	49,3	7.322	149	
MXSG_ _112_ _	53,6	8.414	157	53,6	7.979	149	

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

Product Data Sheet

Street lighting

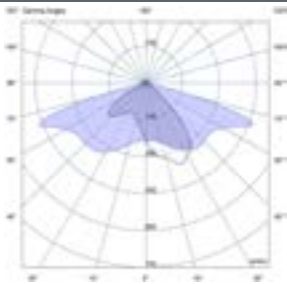
POWER AND OPTICAL FLUX I M
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
MXSG_ _012_ _	12,9	1.943	151	12,9	1.865	145	
MXSG_ _022_ _	15,4	2.372	154	15,4	2.277	148	
MXSG_ _032_ _	17,6	2.710	154	17,6	2.602	148	
MXSG_ _042_ _	20,6	3.229	157	20,6	3.100	150	
MXSG_ _052_ _	23,8	3.713	156	23,8	3.564	150	
MXSG_ _062_ _	27,4	4.247	155	27,4	4.077	149	
MXSG_ _072_ _	31,7	4.914	155	31,7	4.717	149	
MXSG_ _082_ _	35,4	5.735	162	35,4	5.506	156	
MXSG_ _092_ _	39,4	6.383	162	39,4	6.128	156	
MXSG_ _102_ _	44,8	7.213	161	44,8	6.924	155	
MXSG_ _B02_ _	49,3	7.913	161	49,3	7.596	154	
MXSG_ _112_ _	53,6	8.576	160	53,6	8.233	154	

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

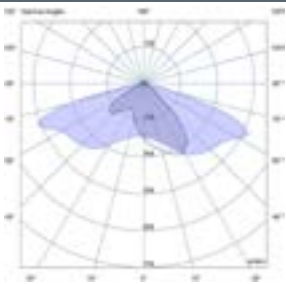
OPTICS

Narrow V14



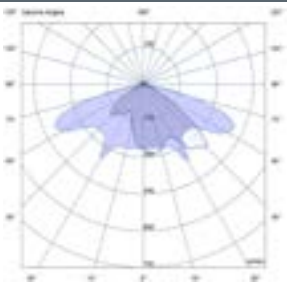
Asymmetrical street optics - Narrow beam
L / H = 0,5 ÷ 0,9

Regular V25



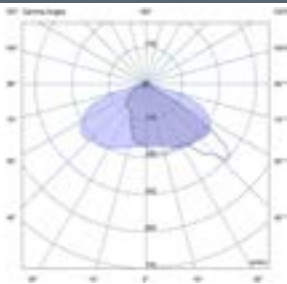
Asymmetrical street optics - Medium beam
L / H = 0,9 ÷ 1,1

Wide W-V07



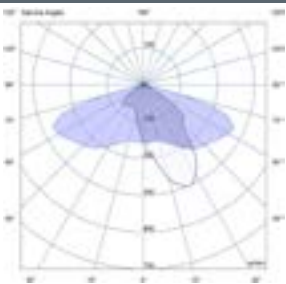
Asymmetrical street optics - Wide beam
L / H = 1,1 ÷ 1,3

Extra Wide V20



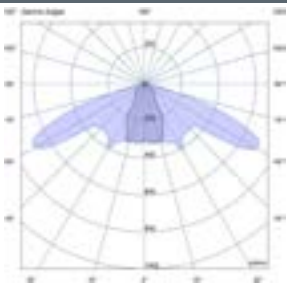
Asymmetrical optics - Very wide beam
L / H = 1,3 ÷ 1,6

Regular Comfort A-V05



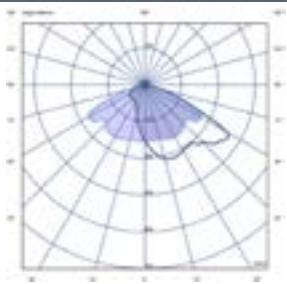
Asymmetrical Optics - Comfort
L / H = 1,0

Symmetric S-SW07



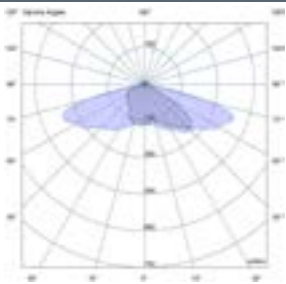
Symmetrical Optics
L / H = 1,0

Forward Wide E-L01



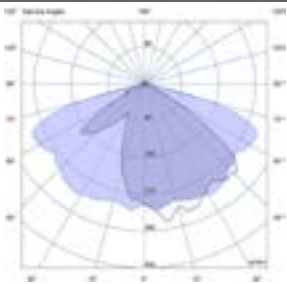
Asymmetrical optics - Very wide beam
L / H = 1,5-2,0

Front-Back V10



Asymmetrical Street Optics - Front-Back
L / H = 1,2 ÷ 1,5

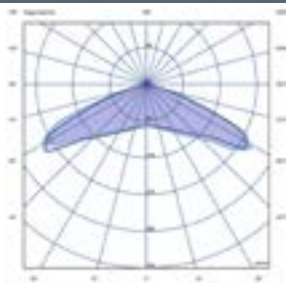
Wide B-V08



Asymmetrical street optics - Wide beam
L / H = 1,2 ÷ 1,5

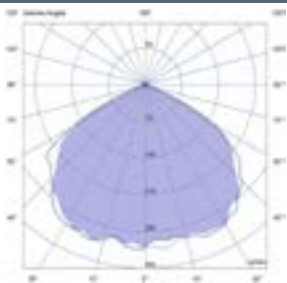
** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

Roto-Wide U-V04



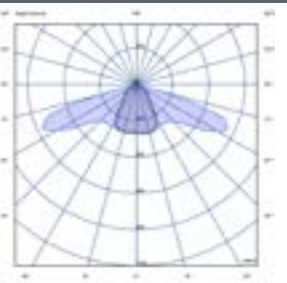
Rotosymmetrical road optics - Wide beam

Rotosimmetric C-V03



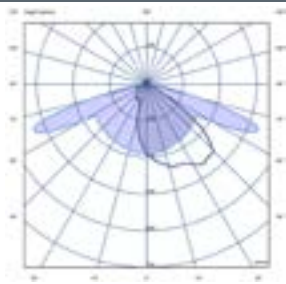
Rotosymmetrical road optics - Medium beam

Symmetric Z-L04



Symmetrical street optics - Medium beam
L / H = 1,2

M-L10



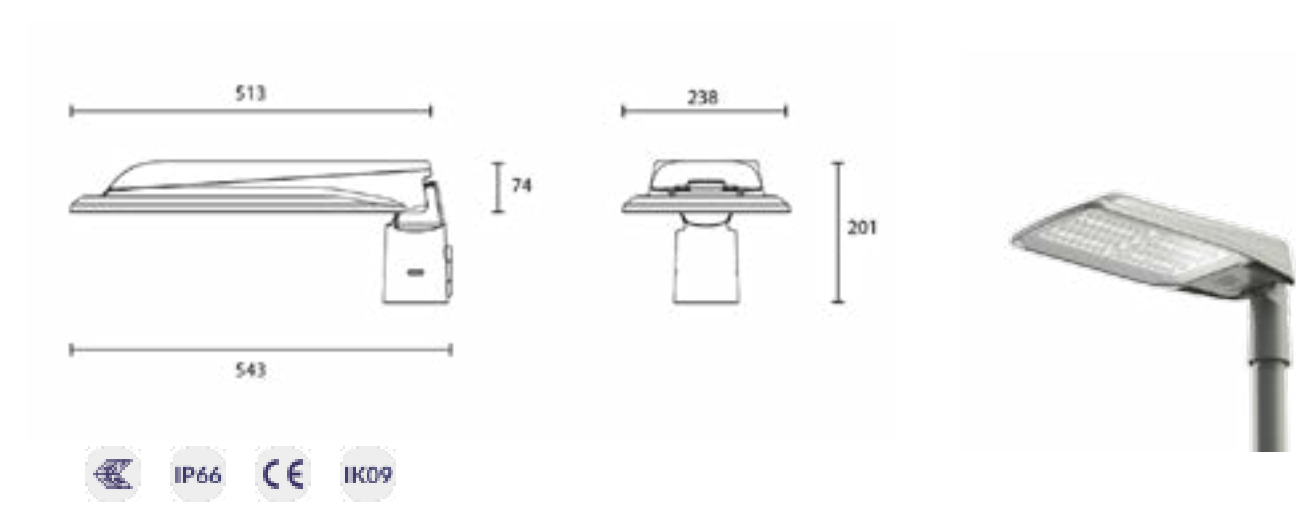
L / H = 1,0

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



CODING						
	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
MXSG	R	8	XX	2	N	A
	N Narrow V14	2 Warm White 3,000K	01 12.9	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	R Regular V25	8 Neutral White 4,000K	02 15.4	Versions available on request	M Virtual Midnight**	B Extra Suppressor
	W Wide W-V07	Versions available on request	03 17.6		Z Virtual Midnight** + CLO	
	D Extra Wide V20		04 20.6	1 Class I (120-270V)	L Zhaga 18 + Virtual Midnight**	
	A Regular Comfort A-V05	1 Cool White 5,500K	05 23.8		Y Zhaga 18 + Virtual Midnight** + CLO	
	S Symmetric S-SW07	5 Warm White 2,700K	06 27.4			
	E Forward Wide E-L01	Extra Warm White 2,200K	07 31.7			
	F Front-Back V10		08 35.4			
	B Wide B-V08		09 39.4			
	U Roto-Wide U-V04		10 44.8			
	C Rotosymmetric C-V03		B0 49.3			
	Z Symmetric Z-L04		11 53.6			
	M M-L10					

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



MAXIMO M GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	N: Narrow V14; R: Regular V25; W: Wide W-V07; D: Extra Wide V20; A: Regular Comfort A-V05; S: Symmetric S-SW07; E: Forward Wide E-L01; F: Front-Back V10; B: Wide B-V08; U: Roto-Wide U-V04; C: Rotosymmetric C-V03; Z: Symmetric Z-L04;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires Max. 4 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK09
IP Grade	IP66
Wiring	Internal connections - accessibility without tools
Dimensions	543 x 238 x 201 mm
Weight	5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0.98 (full load)
Control system	Automatic dimming system of the 'virtual midnight' type with up to 5 steps, CLO function. 1-10, DALI-2, Zhaga 18 on request
Overvoltage protection	12kV differential mode, 12kV common mode, SPD 5kA on request
Operating temperature	-20°C +50°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr
MATERIALS	
Fixing	Suitable for 40 to 76 mm diameter poles Head/pole for vertical or horizontal poles, adjustable from -15° to +20°
Heatsink	Die-cast aluminum; painted RAL 9007
Frame	Die-cast aluminum; painted RAL 9007
Optics	Multi-layer PMMA lenses
Screen	Flat tempered glass 5 mm thick, resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



Product Data Sheet

Street lighting

POWER AND OPTICAL FLUX I N (T _{amb} =25°C)						
CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
MXMG_ _012_ _	12,9	1.964	152		13,0	145
MXMG_ _022_ _	15,4	2.384	155		15,6	147
MXMG_ _032_ _	17,6	2.714	154		17,8	146
MXMG_ _042_ _	20,6	3.257	158		20,5	147
MXMG_ _052_ _	23,8	3.775	159		23,7	148
MXMG_ _062_ _	27,4	4.345	159		27,4	148
MXMG_ _072_ _	31,7	5.006	158		31,4	147
MXMG_ _082_ _	35,4	5.567	157		35,4	147
MXMG_ _092_ _	39,4	6.123	155		39,4	145
MXMG_ _102_ _	44,8	6.922	155		44,8	144
MXMG_ _112_ _	53,6	8.198	153		53,9	144
MXMG_ _122_ _	60,9	9.402	154		61,2	144
MXMG_ _132_ _	68,1	10.487	154		68,2	144
MXMG_ _142_ _	75,7	11.595	153		75,7	143
MXMG_ _152_ _	84,4	12.691	150		84,3	140
POWER AND OPTICAL FLUX I R (T _{amb} =25°C)						
CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
MXMG_ _012_ _	12,9	1.958	152		13,0	145
MXMG_ _022_ _	15,4	2.377	154		15,6	146
MXMG_ _032_ _	17,6	2.706	154		17,8	146
MXMG_ _042_ _	20,6	3.228	157		20,5	147
MXMG_ _052_ _	23,8	3.741	157		23,7	148
MXMG_ _062_ _	27,4	4.305	157		27,4	147
MXMG_ _072_ _	31,7	4.961	156		31,4	147
MXMG_ _082_ _	35,4	5.517	156		35,4	146
MXMG_ _092_ _	39,4	6.068	154		39,4	144
MXMG_ _102_ _	44,8	6.859	153		44,8	143
MXMG_ _112_ _	53,6	8.124	152		53,9	143
MXMG_ _122_ _	60,9	9.298	153		61,2	145
MXMG_ _132_ _	68,1	10.372	152		68,2	145
MXMG_ _142_ _	75,7	11.467	151		75,7	144
MXMG_ _152_ _	84,4	12.550	149		84,3	141

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



Product Data Sheet

Street lighting

POWER AND OPTICAL FLUX I W (T _{amb} =25°C)						
CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
MXMG_ _012_ _	12,9	1.990	154		13,0	147
MXMG_ _022_ _	15,4	2.416	157		15,6	149
MXMG_ _032_ _	17,6	2.750	156		17,8	148
MXMG_ _042_ _	20,6	3.268	159		20,5	149
MXMG_ _052_ _	23,8	3.787	159		23,7	150
MXMG_ _062_ _	27,4	4.359	159		27,4	149
MXMG_ _072_ _	31,7	5.024	158		31,4	149
MXMG_ _082_ _	35,4	5.586	158		35,4	148
MXMG_ _092_ _	39,4	6.143	156		39,4	146
MXMG_ _102_ _	44,8	6.945	155		44,8	145
MXMG_ _112_ _	53,6	8.225	153		53,9	145
MXMG_ _122_ _	60,9	9.457	155		61,2	145
MXMG_ _132_ _	68,1	10.548	155		68,2	145
MXMG_ _142_ _	75,7	11.663	154		75,7	143
MXMG_ _152_ _	84,4	12.766	151		84,3	141
POWER AND OPTICAL FLUX I D (T _{amb} =25°C)						
CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
MXMG_ _012_ _	12,9	1.985	154		13,0	147
MXMG_ _022_ _	15,4	2.410	156		15,6	148
MXMG_ _032_ _	17,6	2.744	156		17,8	148
MXMG_ _042_ _	20,6	3.263	158		20,5	148
MXMG_ _052_ _	23,8	3.781	159		23,7	149
MXMG_ _062_ _	27,4	4.352	159		27,4	148
MXMG_ _072_ _	31,7	5.015	158		31,4	148
MXMG_ _082_ _	35,4	5.577	158		35,4	147
MXMG_ _092_ _	39,4	6.133	156		39,4	145
MXMG_ _102_ _	44,8	6.933	155		44,8	145
MXMG_ _112_ _	53,6	8.211	153		53,9	144
MXMG_ _122_ _	60,9	9.426	155		61,2	145
MXMG_ _132_ _	68,1	10.513	154		68,2	144
MXMG_ _142_ _	75,7	11.624	154		75,7	143
MXMG_ _152_ _	84,4	12.722	151		84,3	140

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

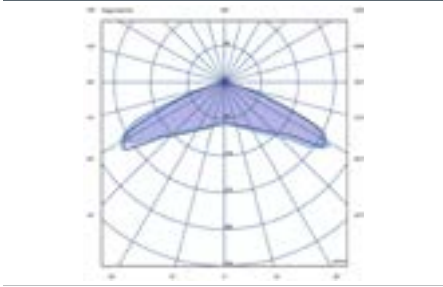
POWER AND OPTICAL FLUX I A (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
MXMG_012_	12,9	2.004	155	13,0	1.925	148
MXMG_022_	15,4	2.432	158	15,6	2.335	150
MXMG_032_	17,6	2.770	157	17,8	2.660	149
MXMG_042_	20,6	3.303	160	20,5	3.075	150
MXMG_052_	23,8	3.828	161	23,7	3.579	151
MXMG_062_	27,4	4.406	161	27,4	4.119	150
MXMG_072_	31,7	5.077	160	31,4	4.710	150
MXMG_082_	35,4	5.646	159	35,4	5.279	149
MXMG_092_	39,4	6.209	158	39,4	5.806	147
MXMG_102_	44,8	7.019	157	44,8	6.563	146
MXMG_112_	53,6	8.313	155	53,9	7.882	146
MXMG_122_	60,9	9.560	157	61,2	8.981	147
MXMG_132_	68,1	10.663	157	68,2	9.975	146
MXMG_142_	75,7	11.790	156	75,7	10.974	145
MXMG_152_	84,4	12.904	153	84,3	12.010	142
POWER AND OPTICAL FLUX I F (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
MXMG_012_	12,9	1.982	154	13,0	1.905	147
MXMG_022_	15,4	2.407	156	15,6	2.309	148
MXMG_032_	17,6	2.740	156	17,8	2.631	148
MXMG_042_	20,6	3.223	156	20,5	3.040	148
MXMG_052_	23,8	3.734	157	23,7	3.538	149
MXMG_062_	27,4	4.298	157	27,4	4.073	149
MXMG_072_	31,7	4.953	156	31,4	4.656	148
MXMG_082_	35,4	5.508	156	35,4	5.219	147
MXMG_092_	39,4	6.058	154	39,4	5.740	146
MXMG_102_	44,8	6.848	153	44,8	6.488	145
MXMG_112_	53,6	8.111	151	53,9	7.793	145
MXMG_122_	60,9	9.443	155	61,2	8.870	145
MXMG_132_	68,1	10.532	155	68,2	9.853	144
MXMG_142_	75,7	11.645	154	75,7	10.839	143
MXMG_152_	84,4	12.745	151	84,3	11.862	141

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

OPTICS		
Narrow V14 Asymmetrical street optics - Narrow beam L / H = 0,5 ÷ 0,9	Regular V25 Asymmetrical street optics - Medium beam L / H = 0,9 ÷ 1,1	Wide W-V07 Asymmetrical street optics - Wide beam L / H = 1,1 ÷ 1,3
Extra Wide V20 Asymmetrical optics - Very wide beam L / H = 1,3 ÷ 1,6	Regular Comfort A-V05 Asymmetrical Optics - Comfort L / H = 1,0	Symmetric S-SW07 Symmetrical Optics L / H = 1,0
Forward Wide E-L01 Asymmetrical optics - Very wide beam L / H = 1,5-2,0	Front-Back V10 Asymmetrical Street Optics - Front-Back L / H = 1,2 ÷ 1,5	Wide B-V08 Asymmetrical street optics - Wide beam L / H = 1,2 ÷ 1,5

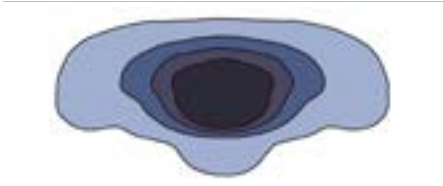
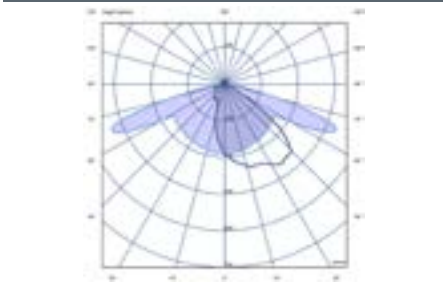
** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

Roto-Wide U-V04



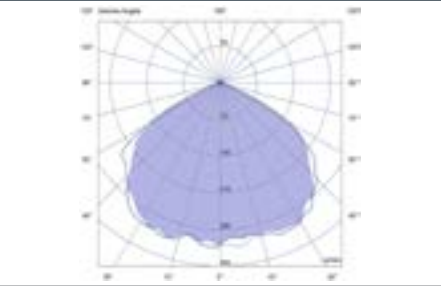
Rotosymmetrical road optics - Wide beam

M-L10



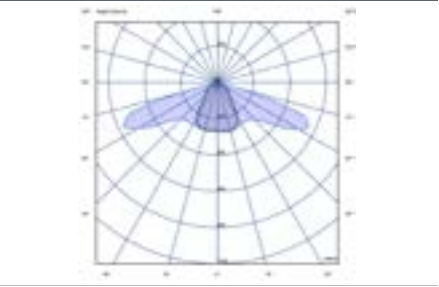
L / H = 1.0

Rotosymmetric C-V03



Rotosymmetrical road optics - Medium beam

Symmetric Z-L04

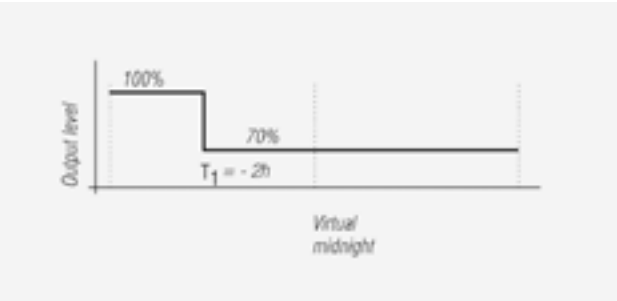


Symmetrical street optics - Medium beam
L / H = 1,2

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

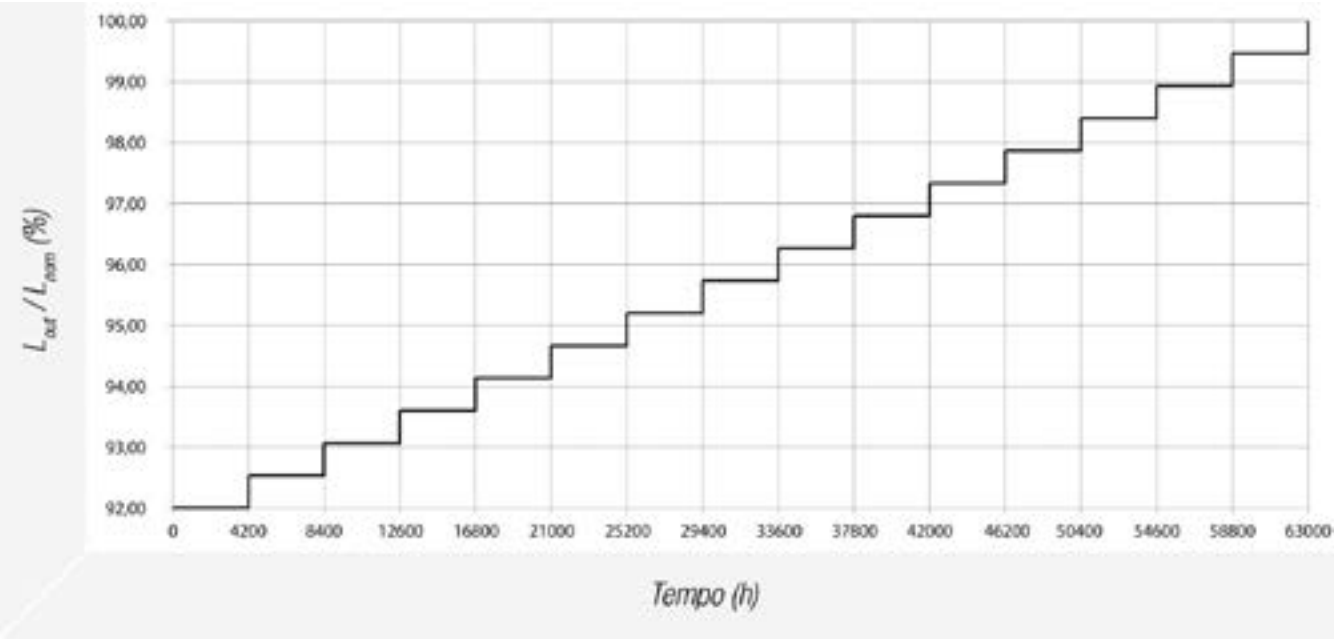
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please
contact the sales department.

STANDARD CLO PROFILE

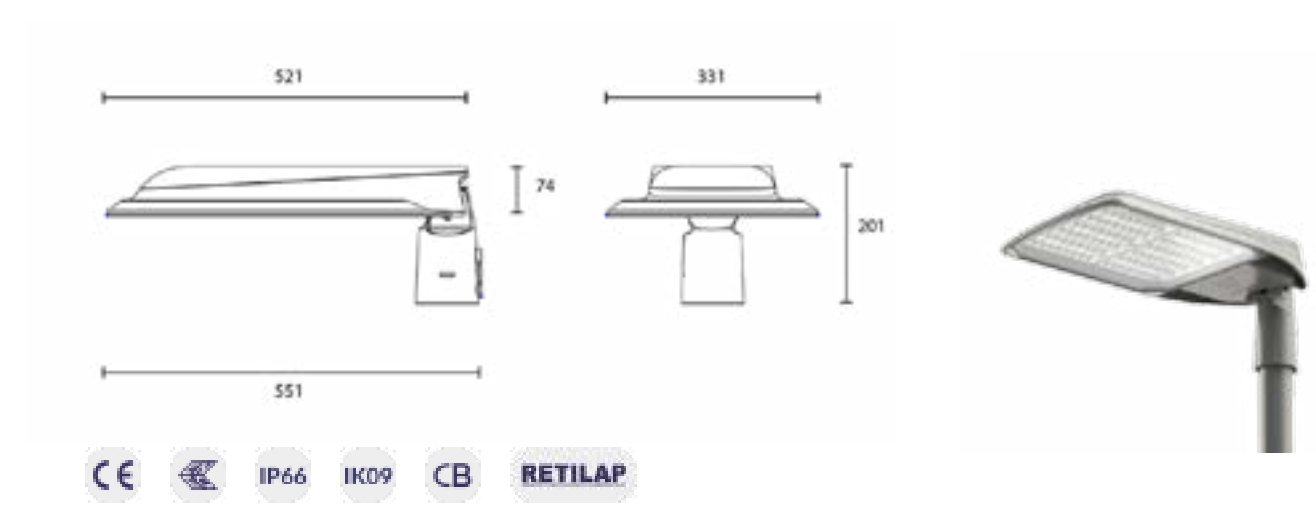


** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



CODING						
	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
MXMG	R	8	XX	2	N	A
	N Narrow V14	2 Warm White 3,000K	01 12.9	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	R Regular V25	8 Neutral White 4,000K	02 15.4	Versions available on request	M Virtual Midnight**	B Extra Suppressor
	W Wide W-V07	Versions available on request	03 17.6		Z Virtual Midnight** + CLO	
	D Extra Wide V20		04 20.6	1 Class I (120-270V)	L Zhaga 18 + Virtual Midnight**	
	A Regular Comfort A-V05	1 Cool White 5,500K	05 23.8		Y Zhaga 18 + Virtual Midnight** + CLO	
	S Symmetric S-SW07	5 Warm White 2,700K	06 27.4			
	E Forward Wide E-L01	9 Extra Warm White 2,200K	07 31.7			
	F Front-Back V10		08 35.4			
	B Wide B-V08		09 39.4			
	U Roto-Wide U-V04		10 44.8			
	C Rotosimmetric C-V03		11 53.6			
	Z Symmetric Z-L04		12 60.9			
			13 68.1			
			14 75.7			
			15 84.4			
			16 90			
			17 94.2			

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



MAXIMO L GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	R: Regular V25; W: Wide W-V07; D: Extra Wide V20; A: Regular Comfort A-V05; F: Front-Back V10; B: Wide B-V08; N: Narrow V14; E: Forward Wide E-L01;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires Max. 4 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK09
IP Grade	IP66
Wiring	Internal connections - accessibility without tools
Dimensions	553 x 311 x 221 mm
Weight	7 kg

ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0,98 (at full load)
Control system	Automatic dimming system of the 'virtual midnight' type with up to 5 steps, CLO function. 1-10, DALI-2, Zhaga 18 on request
Overvoltage protection	12kV differential mode, 12kV common mode, SPD 5kA on request
Operating temperature	-20°C +50°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr

MATERIALS	
Fixing	Suitable for 40 to 76 mm diameter poles Head/pole for vertical or horizontal poles, adjustable from -15° to +20°
Heatsink	Die-cast aluminium; Paint finish RAL 9007
Frame	Die-cast aluminium; Paint finish RAL 9007
Optics	Multi-layer PMMA lenses
Screen	Flat tempered glass 5 mm thick, resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



Product Data Sheet

Street lighting

POWER AND OPTICAL FLUX I R (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
MXLG_ _022_ _	93,0	14.382	155	92,9	13.252	143
MXLG_ _042_ _	102,5	15.808	154	102,2	14.597	143
MXLG_ _062_ _	111,3	16.926	152	110,9	15.639	141
MXLG_ _082_ _	124,3	18.698	150	124,1	17.661	142
MXLG_ _102_ _	132,0	19.971	151	132,1	18.950	143
MXLG_ _122_ _	144,1	21.451	149	144,4	20.373	141
MXLG_ _142_ _	157,4	23.139	147	157,3	21.639	138
POWER AND OPTICAL FLUX I W (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
MXLG_ _022_ _	93,0	14.517	156	92,9	13.463	145
MXLG_ _042_ _	102,5	15.956	156	102,2	14.829	145
MXLG_ _062_ _	111,3	17.085	154	110,9	15.889	143
MXLG_ _082_ _	124,3	19.032	153	124,1	17.817	144
MXLG_ _102_ _	132,0	20.328	154	132,1	19.118	145
MXLG_ _122_ _	144,1	21.835	152	144,4	20.553	142
MXLG_ _142_ _	157,4	23.553	150	157,3	21.976	140
POWER AND OPTICAL FLUX I D (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
MXLG_ _022_ _	93,0	14.336	154	92,9	13.389	144
MXLG_ _042_ _	102,5	15.758	154	102,2	14.747	144
MXLG_ _062_ _	111,3	16.872	152	110,9	15.801	142
MXLG_ _082_ _	124,3	18.924	152	124,1	17.788	143
MXLG_ _102_ _	132,0	20.213	153	132,1	19.086	144
MXLG_ _122_ _	144,1	21.711	151	144,4	20.519	142
MXLG_ _142_ _	157,4	23.419	149	157,3	21.940	139
POWER AND OPTICAL FLUX I A (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
MXLG_ _022_ _	93,0	14.610	157	92,9	13.594	146
MXLG_ _042_ _	102,5	16.033	156	102,2	14.973	147
MXLG_ _062_ _	111,3	17.167	154	110,9	16.043	145
MXLG_ _082_ _	124,3	19.090	154	124,1	17.912	144
MXLG_ _102_ _	132,0	20.390	154	132,1	19.219	145
MXLG_ _122_ _	144,1	21.901	152	144,4	20.661	143
MXLG_ _142_ _	157,4	23.624	150	157,3	22.092	140

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



Product Data Sheet

Street lighting

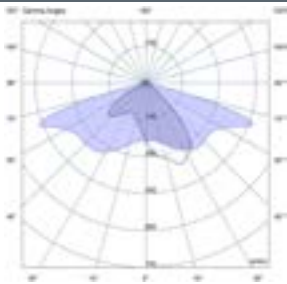
POWER AND OPTICAL FLUX I F (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
MXLG_ _022_ _	93,0	14.027	151	92,9	13.066	141
MXLG_ _042_ _	102,5	15.418	150	102,2	14.392	141
MXLG_ _062_ _	111,3	16.509	148	110,9	15.420	139
MXLG_ _082_ _	124,3	18.852	152	124,1	17.753	143
MXLG_ _102_ _	132,0	20.135	153	132,1	19.049	144
MXLG_ _122_ _	144,1	21.628	150	144,4	20.478	142
MXLG_ _142_ _	157,4	23.330	148	157,3	21.897	139
POWER AND OPTICAL FLUX I N (T _{amb} =25°C)						
4000K			3000K			
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
MXLG_ _022_ _	93,0	14.228	153	92,9	13.371	144
MXLG_ _042_ _	102,5	15.639	153	102,2	14.728	144
MXLG_ _062_ _	111,3	16.745	150	110,9	15.780	142
MXLG_ _082_ _	124,3	18.753	151	124,1	17.594	142
MXLG_ _102_ _	132,0	20.031	152	132,1	18.878	143
MXLG_ _122_ _	144,1	21.515	149	144,4	20.294	141
MXLG_ _142_ _	157,4	23.208	147	157,3	21.700	138

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



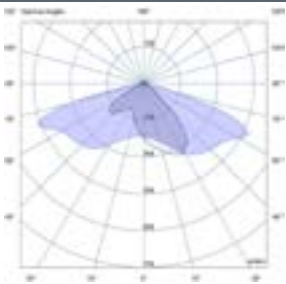
OPTICS

Narrow V14



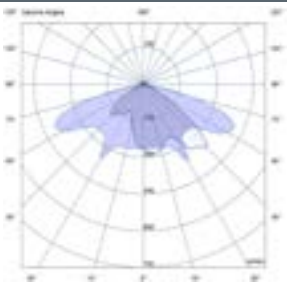
Asymmetrical street optics - Narrow beam
L / H = 0,5 ÷ 0,9

Regular V25



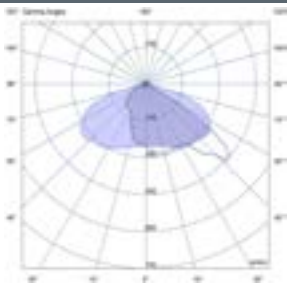
Asymmetrical street optics - Medium beam
L / H = 0,9 ÷ 1,1

Wide W-V07



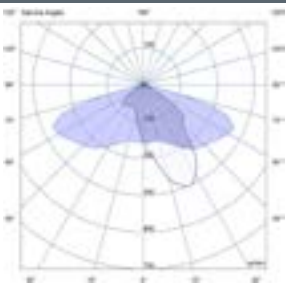
Asymmetrical street optics - Wide beam
L / H = 1,1 ÷ 1,3

Extra Wide V20



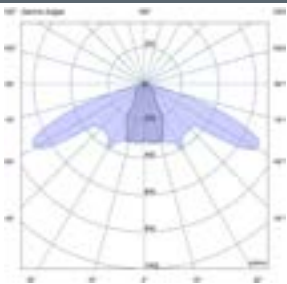
Asymmetrical optics - Very wide beam
L / H = 1,3 ÷ 1,6

Regular Comfort A-V05



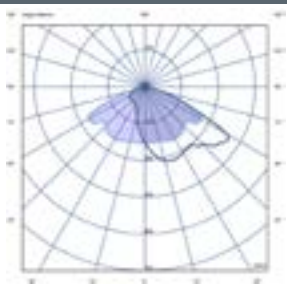
Asymmetrical Optics - Comfort
L / H = 1,0

Symmetric S-SW07



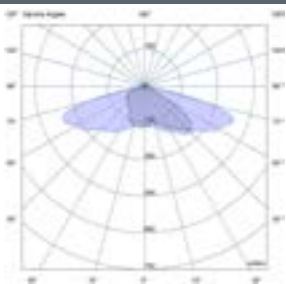
Symmetrical Optics
L / H = 1,0

Forward Wide E-L01



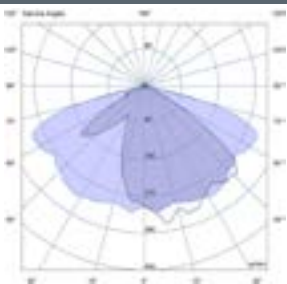
Asymmetrical optics - Very wide beam
L / H = 1,5-2,0

Front-Back V10



Asymmetrical Street Optics - Front-Back
L / H = 1,2 ÷ 1,5

Wide B-V08

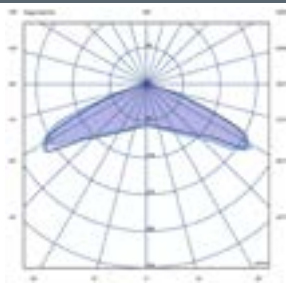


Asymmetrical street optics - Wide beam
L / H = 1,2 ÷ 1,5

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

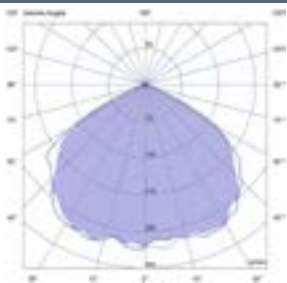


Roto-Wide U-V04



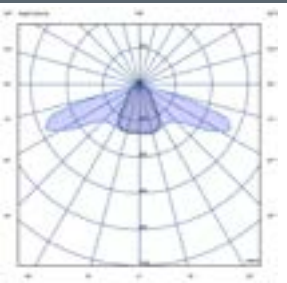
Rotosymmetrical road optics - Wide beam

Rotosimmetric C-V03



Rotosymmetrical road optics - Medium beam

Symmetric Z-L04



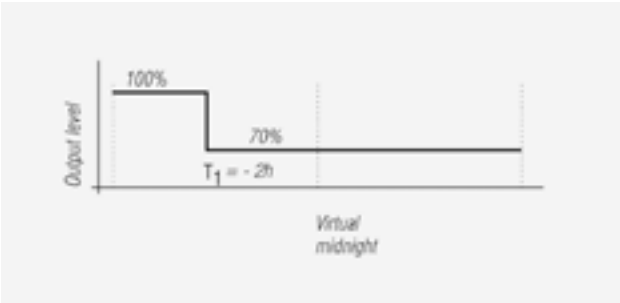
Symmetrical street optics - Medium beam
L / H = 1,2

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



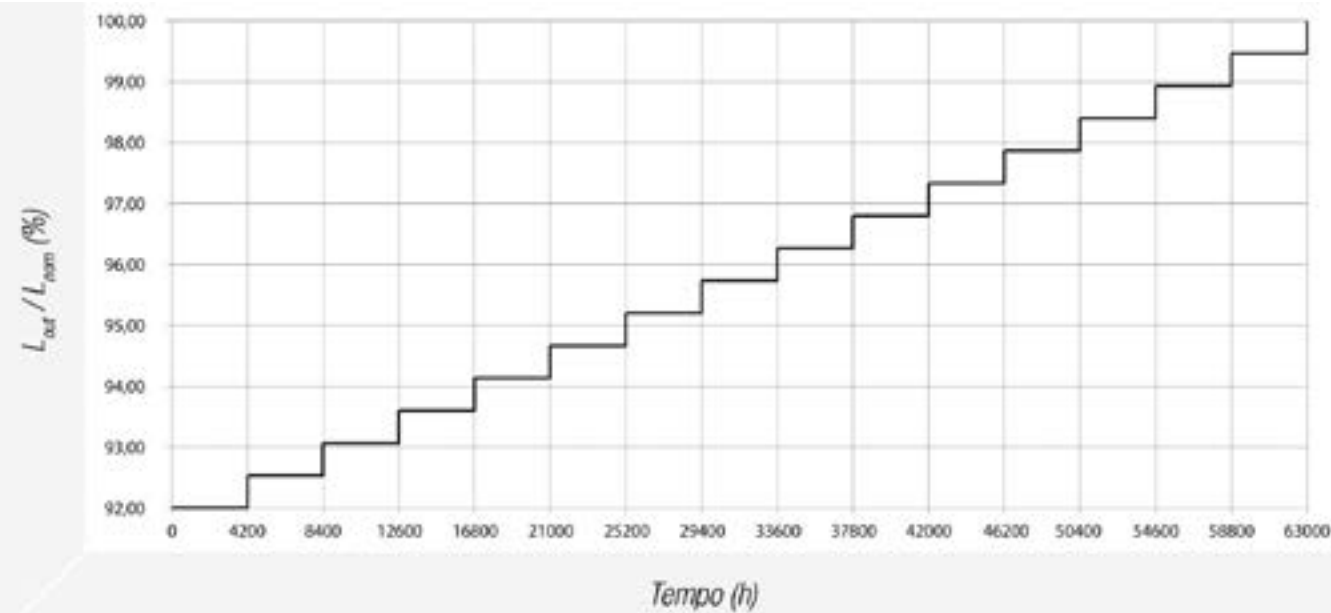
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please contact the sales department.

STANDARD CLO PROFILE



** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



CODING

	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
MXLG	R	8	XX	2	N	A
	R Regular V25	2 Warm White 3,000K	02 93	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	W Wide W-V07	8 Neutral White 4,000K	04 102.5	Versions available on request	M Virtual Midnight**	B Extra Suppressor
	D Extra Wide V20	Versions available on request	06 111.3		Z Virtual Midnight** + CLO	
	A Regular Comfort A-V05	1 Cool White 5,500K	08 124.32	1 Class I (120-270V)	L Zhaga 18 + Virtual Midnight**	
	F Front-Back V10	5 Warm White 2,700K	10 132		Y Zhaga 18 + Virtual Midnight** + CLO	
	B Wide B-V08	9 Extra Warm White 2,200K	12 144.1			
	N Narrow V14		14 157.4			
	E Forward Wide E-L01					

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



Themis





THEMIS PT GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	D: Extra Wide V20; E: Forward Wide E-L01; C: Rotosymmetric C-V03; U: Rotosymmetric Wide U-V04; W: Wide W-V07; F: V10 Front-Back; R: Regular V25;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires Max. 4 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK09
IP Grade	IP66
Wiring	Internal connections - accessibility without tools
Dimensions	diam 488 x 671 mm
Weight	10 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0,97 (at full load)
Control system	Automatic "virtual midnight" dimming system with up to 3 steps and CLO function; DALI; remote control based on lumawise system
Overvoltage protection	12kV differential mode, 12kV common mode, SPD 5kA on request
Operating temperature	-20°C +40°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr
MATERIALS	
Fixing	Post top mounting Suitable for 40 to 76 mm diameter poles
Heatsink	Die-cast aluminium; painted "Dark Coal"
Frame	Die-cast aluminium; painted "Dark Coal"
Optics	Multi-layer PMMA lenses
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



POWER AND OPTICAL FLUX I D (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
THPB__012__	13,0	1.819	140	13,0	1.765	136
THPB__022__	15,1	2.122	141	15,0	2.044	136
THPB__032__	17,7	2.483	140	17,6	2.406	137
THPB__042__	21,1	2.951	140	21,0	2.856	136
THPB__052__	28,0	3.886	139	28,0	3.768	135
THPB__062__	35,7	4.863	136	35,6	4.674	131
THPB__072__	40,2	5.434	135	40,2	5.215	130
THPB__082__	46,3	6.036	130	46,3	5.778	125
THPB__092__	51,6	6.617	128	51,6	6.340	123
THPB__102__	63,1	7.902	125	63,1	7.556	120
POWER AND OPTICAL FLUX I E (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
THPB__012__	13,0	1.839	141	13,0	1.785	137
THPB__022__	15,1	2.145	142	15,0	2.066	138
THPB__032__	17,7	2.510	142	17,6	2.432	138
THPB__042__	21,1	2.984	141	21,0	2.887	137
THPB__052__	28,0	3.928	140	28,0	3.810	136
THPB__062__	35,7	4.916	138	35,6	4.725	133
THPB__072__	40,2	5.493	137	40,2	5.273	131
THPB__082__	46,3	6.201	134	46,3	5.979	129
THPB__092__	51,6	6.798	132	51,6	6.560	127
THPB__102__	63,1	8.118	129	63,1	7.819	124
POWER AND OPTICAL FLUX I C (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
THPB__012__	13,0	1.915	147	13,0	1.862	143
THPB__022__	15,1	2.234	148	15,0	2.156	144
THPB__032__	17,7	2.614	148	17,6	2.537	144
THPB__042__	21,1	3.107	147	21,0	3.012	143
THPB__052__	28,0	4.091	146	28,0	3.974	142
THPB__062__	35,7	5.120	143	35,6	4.929	138
THPB__072__	40,2	5.721	142	40,2	5.500	137
THPB__082__	46,3	6.264	135	46,3	6.031	130
THPB__092__	51,6	6.866	133	51,6	6.617	128
THPB__102__	63,1	8.200	130	63,1	7.886	125

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



POWER AND OPTICAL FLUX I U
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
THPB_ _012_ _	13,0	1.893	146	13,0	1.828	141	
THPB_ _022_ _	15,1	2.208	146	15,0	2.116	141	
THPB_ _032_ _	17,7	2.584	146	17,6	2.491	142	
THPB_ _042_ _	21,1	3.071	146	21,0	2.957	141	
THPB_ _052_ _	28,0	4.043	144	28,0	3.902	139	
THPB_ _062_ _	35,7	5.060	142	35,6	4.840	136	
THPB_ _072_ _	40,2	5.654	141	40,2	5.400	134	
THPB_ _082_ _	46,3	6.299	136	46,3	6.063	131	
THPB_ _092_ _	51,6	6.905	134	51,6	6.653	129	
THPB_ _102_ _	63,1	8.246	131	63,1	7.929	126	

POWER AND OPTICAL FLUX I W
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
THPB_ _012_ _	13,0	1.808	139	13,0	1.753	135	
THPB_ _022_ _	15,1	2.109	140	15,0	2.030	135	
THPB_ _032_ _	17,7	2.468	139	17,6	2.389	136	
THPB_ _042_ _	21,1	2.933	139	21,0	2.836	135	
THPB_ _052_ _	28,0	3.861	138	28,0	3.743	134	
THPB_ _062_ _	35,7	4.833	135	35,6	4.642	130	
THPB_ _072_ _	40,2	5.400	134	40,2	5.179	129	
THPB_ _082_ _	46,3	6.024	130	46,3	5.847	126	
THPB_ _092_ _	51,6	6.603	128	51,6	6.416	124	
THPB_ _102_ _	63,1	7.885	125	63,1	7.647	121	

POWER AND OPTICAL FLUX I F
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
THPB_ _012_ _	13,0	1.815	140	13,0	1.762	136	
THPB_ _022_ _	15,1	2.117	140	15,0	2.040	136	
THPB_ _032_ _	17,7	2.477	140	17,6	2.401	136	
THPB_ _042_ _	21,1	2.945	140	21,0	2.850	136	
THPB_ _052_ _	28,0	3.877	138	28,0	3.761	134	
THPB_ _062_ _	35,7	4.852	136	35,6	4.665	131	
THPB_ _072_ _	40,2	5.421	135	40,2	5.205	129	
THPB_ _082_ _	46,3	6.077	131	46,3	5.768	125	
THPB_ _092_ _	51,6	6.661	129	51,6	6.329	123	
THPB_ _102_ _	63,1	7.955	126	63,1	7.543	120	

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



POWER AND OPTICAL FLUX I R
(T_{amb}=25°C)

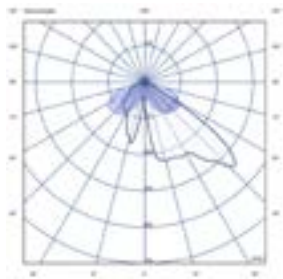
		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
THPB_ _012_ _	13,0	1.825	140	13,0	1.762	136	
THPB_ _022_ _	15,1	2.129	141	15,0	2.041	136	
THPB_ _032_ _	17,7	2.491	141	17,6	2.402	136	
THPB_ _042_ _	21,1	2.962	140	21,0	2.852	136	
THPB_ _052_ _	28,0	3.899	139	28,0	3.763	134	
THPB_ _062_ _	35,7	4.879	137	35,6	4.666	131	
THPB_ _072_ _	40,2	5.452	136	40,2	5.207	130	
THPB_ _082_ _	46,3	6.074	131	46,3	5.846	126	
THPB_ _092_ _	51,6	6.658	129	51,6	6.415	124	
THPB_ _102_ _	63,1	7.951	126	63,1	7.645	121	

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



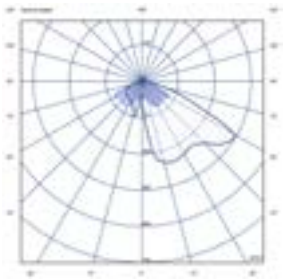
OPTICS

Extra Wide V20



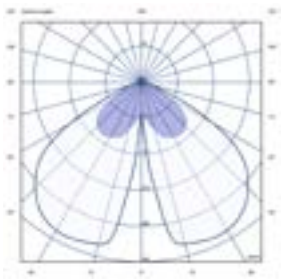
Asymmetrical Optics - Very Wide Beam PT
L / H = 1,3 ÷ 1,6

Forward Wide E-L01



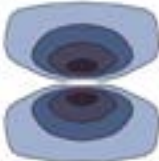
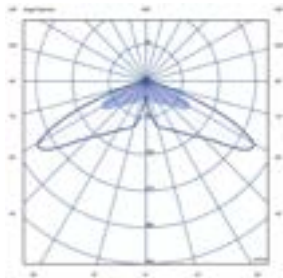
Asymmetrical Front Optics
L / H = 1.6 ÷ 2.0

Rotosymmetrical C-V03



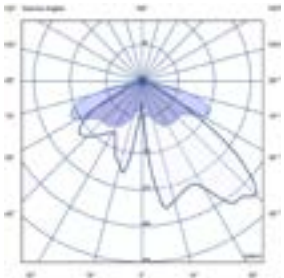
Rotosymmetrical Optics

Rotosymmetrical Wide U-V04



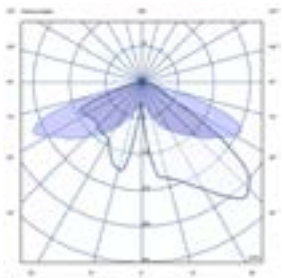
Wide Rotosymmetrical Lens

Wide W-V07



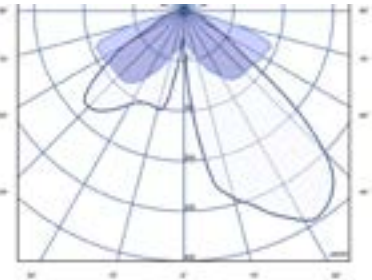
Asymmetrical street optics - Wide beam

V10 Front-Back



Asymmetrical Street Optics - Front-Back
L / H = 1,2 ÷ 1,5

Regular V25



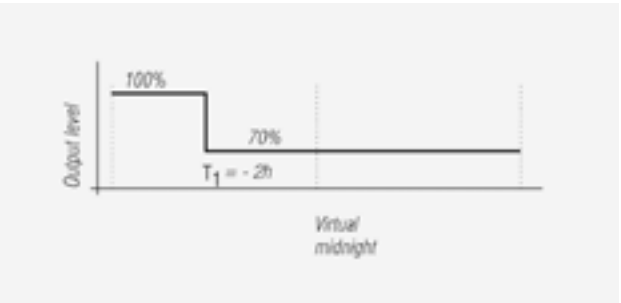
Asymmetrical street optics - Medium beam
L / H = 0,9 ÷ 1,1

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



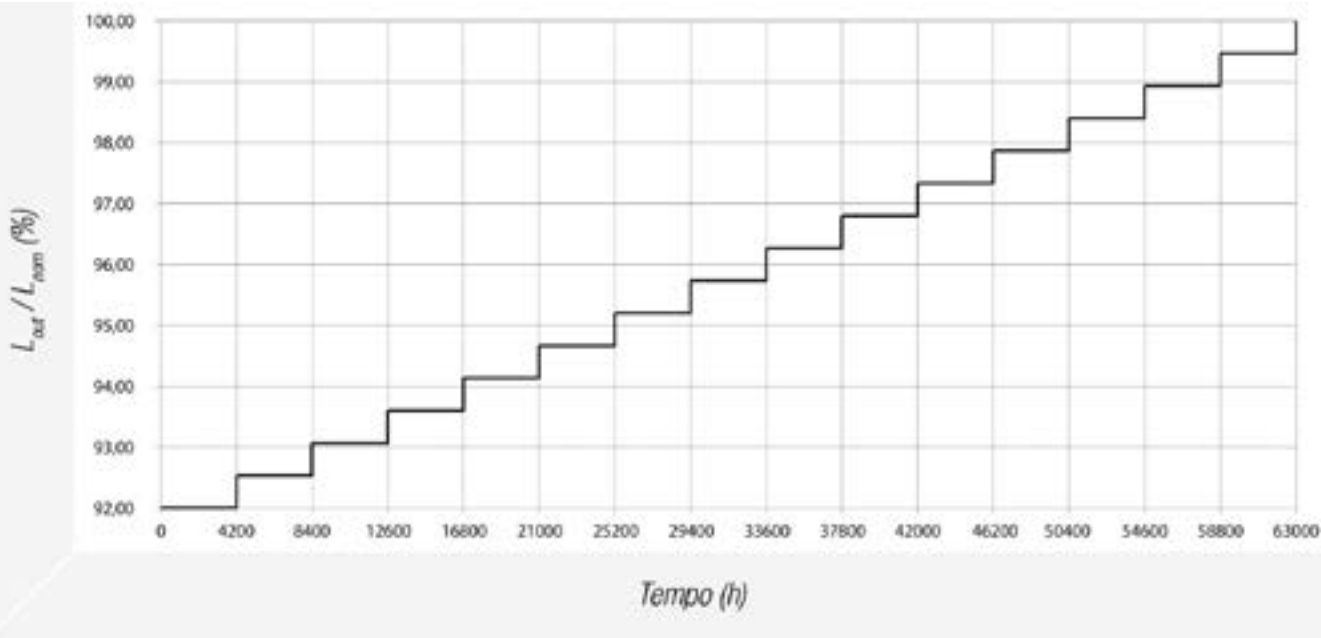
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please
contact the sales department.

STANDARD CLO PROFILE

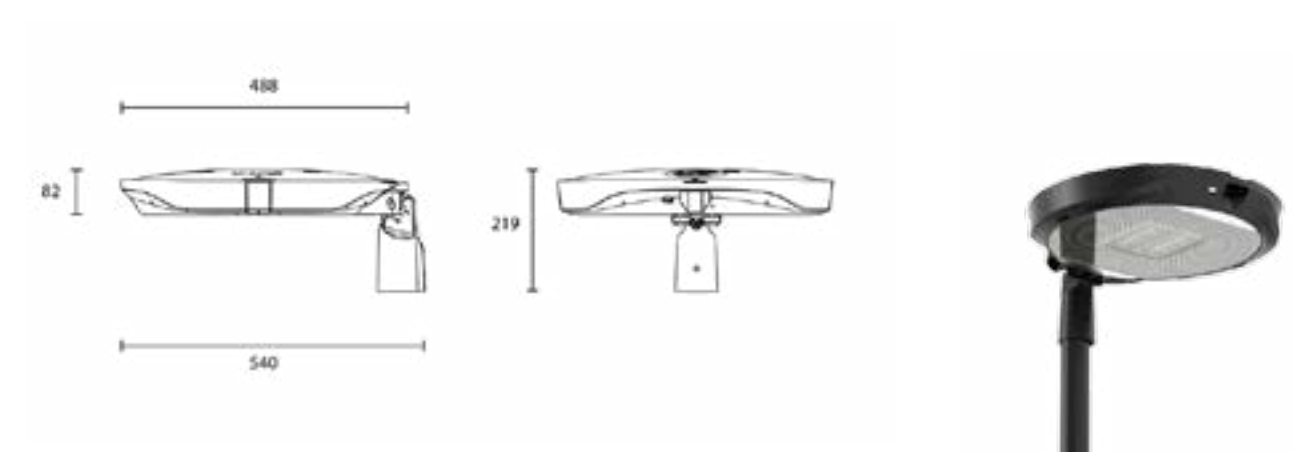


** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



CODING						
	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
THPB	R	8	XX	2	N	A
	D Extra Wide V20	2 Warm White 3,000K	01 13	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	E Forward Wide E-L01	8 Neutral White 4,000K	02 15.1	Versions available on request 1 Class I (120-270V)	M Virtual Midnight**	B Extra Suppressor
	C Rotosymmetric C-V03	Versions available on request	03 17.7		Z Virtual Midnight** + CLO	L Standard Surge Protection
	U Rotosymmetric Wide U-V04		04 21.1		L Zhaga 18 + Virtual Midnight**	
	W Wide W-V07	1 Cool White 5,500K	05 28		Y Zhaga 18 + Virtual Midnight** + CLO	
	F V10 Front-Back	5 Warm White 2,700K	06 35.7			
	R Regular V25	9 Extra Warm White 2,200K	07 40.2			
			08 46.3			
			09 51.6			
			10 63.1			

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



THEMIS L GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	N: Narrow V14; R: Regular V25; A: Regular Comfort A-V05; W: Wide W-V07; D: Extra Wide V20; F: Front-Back V10; B: Wide B-V08; E: Forward Wide E-L01;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires typical 4 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK09
IP Grade	IP66
Wiring	Internal connections
Dimensions	diam 540 x 219 mm
Weight	10 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0,97 (at full load)
Control system	Automatic "virtual midnight" dimming system with up to 3 steps and CLO function; DALI; remote control based on lumawise system
Overvoltage protection	12kV differential mode, 12kV common mode, SPD 5kA on request
Operating temperature	-20°C +40°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr
MATERIALS	
Fixing	Post top mounting Suitable for 40 to 76 mm diameter poles
Heatsink	Die-cast aluminium
Frame	Die-cast aluminium; painted "Dark Coal"
Optics	Multi-layer PMMA lenses
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



POWER AND OPTICAL FLUX I N (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
THLB_ _012_ _	12,9	1.964	152	12,9	1.886	146
THLB_ _022_ _	15,4	2.384	155	15,4	2.288	149
THLB_ _032_ _	17,6	2.714	154	17,6	2.606	148
THLB_ _042_ _	20,6	3.257	158	20,6	3.023	147
THLB_ _052_ _	23,8	3.775	159	23,8	3.518	148
THLB_ _062_ _	27,4	4.345	159	27,4	4.049	148
THLB_ _072_ _	31,7	5.006	158	31,7	4.629	146
THLB_ _082_ _	35,4	5.567	157	35,4	5.188	147
THLB_ _092_ _	39,4	6.123	155	39,4	5.707	145
THLB_ _102_ _	44,8	6.922	155	44,8	6.451	144
THLB_ _112_ _	53,6	8.198	153	53,6	7.747	145
THLB_ _122_ _	61,8	9.458	153	61,8	9.087	147
THLB_ _132_ _	68,2	10.068	148	68,2	9.673	142
THLB_ _142_ _	75,9	11.098	146	75,9	10.662	140
THLB_ _152_ _	82,4	11.938	145	82,4	11.470	139
THLB_ _162_ _	92,1	13.141	143	92,1	12.625	137
POWER AND OPTICAL FLUX I R (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
THLB_ _012_ _	12,9	1.958	152	12,9	1.881	146
THLB_ _022_ _	15,4	2.377	154	15,4	2.281	148
THLB_ _032_ _	17,6	2.706	154	17,6	2.599	148
THLB_ _042_ _	20,6	3.228	157	20,6	3.006	146
THLB_ _052_ _	23,8	3.741	157	23,8	3.499	147
THLB_ _062_ _	27,4	4.305	157	27,4	4.027	147
THLB_ _072_ _	31,7	4.961	156	31,7	4.604	145
THLB_ _082_ _	35,4	5.517	156	35,4	5.160	146
THLB_ _092_ _	39,4	6.068	154	39,4	5.676	144
THLB_ _102_ _	44,8	6.859	153	44,8	6.416	143
THLB_ _112_ _	53,6	8.124	152	53,6	7.705	144
THLB_ _122_ _	61,8	9.531	154	61,8	9.154	148
THLB_ _132_ _	68,2	10.146	149	68,2	9.743	143
THLB_ _142_ _	75,9	11.183	147	75,9	10.740	142
THLB_ _152_ _	82,4	12.030	146	82,4	11.553	140
THLB_ _162_ _	92,1	13.242	144	92,1	12.717	138

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



POWER AND OPTICAL FLUX I A (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
THLB_ _012_ _	12,9	2.004	155	12,9	1.925	149
THLB_ _022_ _	15,4	2.432	158	15,4	2.335	152
THLB_ _032_ _	17,6	2.770	157	17,6	2.660	151
THLB_ _042_ _	20,6	3.303	160	20,6	3.075	149
THLB_ _052_ _	23,8	3.828	161	23,8	3.579	150
THLB_ _062_ _	27,4	4.406	161	27,4	4.119	150
THLB_ _072_ _	31,7	5.077	160	31,7	4.710	149
THLB_ _082_ _	35,4	5.646	159	35,4	5.279	149
THLB_ _092_ _	39,4	6.209	158	39,4	5.806	147
THLB_ _102_ _	44,8	7.019	157	44,8	6.563	146
THLB_ _112_ _	53,6	8.313	155	53,6	7.882	147
THLB_ _122_ _	61,8	9.491	154	61,8	9.109	147
THLB_ _132_ _	68,2	10.102	148	68,2	9.696	142
THLB_ _142_ _	75,9	11.136	147	75,9	10.688	141
THLB_ _152_ _	82,4	11.979	145	82,4	11.498	140
THLB_ _162_ _	92,1	13.186	143	92,1	12.656	137
POWER AND OPTICAL FLUX I W (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
THLB_ _012_ _	12,9	1.990	154	12,9	1.912	148
THLB_ _022_ _	15,4	2.416	157	15,4	2.319	151
THLB_ _032_ _	17,6	2.750	156	17,6	2.642	150
THLB_ _042_ _	20,6	3.268	159	20,6	3.045	148
THLB_ _052_ _	23,8	3.787	159	23,8	3.545	149
THLB_ _062_ _	27,4	4.359	159	27,4	4.080	149
THLB_ _072_ _	31,7	5.024	158	31,7	4.665	147
THLB_ _082_ _	35,4	5.586	158	35,4	5.229	148
THLB_ _092_ _	39,4	6.143	156	39,4	5.751	146
THLB_ _102_ _	44,8	6.945	155	44,8	6.501	145
THLB_ _112_ _	53,6	8.225	153	53,6	7.807	146
THLB_ _122_ _	61,8	9.543	154	61,8	9.149	148
THLB_ _132_ _	68,2	10.158	149	68,2	9.739	143
THLB_ _142_ _	75,9	11.197	148	75,9	10.735	141
THLB_ _152_ _	82,4	12.045	146	82,4	11.548	140
THLB_ _162_ _	92,1	13.258	144	92,1	12.711	138

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



POWER AND OPTICAL FLUX I D
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	Efficiency
THLB_ _012_ _	12,9	1.985		154	12,9	1.908
THLB_ _022_ _	15,4	2.410		156	15,4	2.312
THLB_ _032_ _	17,6	2.744		156	17,6	2.635
THLB_ _042_ _	20,6	3.263		158	20,6	3.035
THLB_ _052_ _	23,8	3.781		159	23,8	3.532
THLB_ _062_ _	27,4	4.352		159	27,4	4.066
THLB_ _072_ _	31,7	5.015		158	31,7	4.648
THLB_ _082_ _	35,4	5.577		158	35,4	5.210
THLB_ _092_ _	39,4	6.133		156	39,4	5.730
THLB_ _102_ _	44,8	6.933		155	44,8	6.477
THLB_ _112_ _	53,6	8.211		153	53,6	7.780
THLB_ _122_ _	61,8	9.488		154	61,8	9.090
THLB_ _132_ _	68,2	10.099		148	68,2	9.675
THLB_ _142_ _	75,9	11.132		147	75,9	10.665
THLB_ _152_ _	82,4	11.975		145	82,4	11.472
THLB_ _162_ _	92,1	13.182		143	92,1	12.628

POWER AND OPTICAL FLUX I F
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	Efficiency
THLB_ _012_ _	12,9	1.982		154	12,9	1.905
THLB_ _022_ _	15,4	2.407		156	15,4	2.309
THLB_ _032_ _	17,6	2.740		156	17,6	2.631
THLB_ _042_ _	20,6	3.223		156	20,6	3.040
THLB_ _052_ _	23,8	3.734		157	23,8	3.538
THLB_ _062_ _	27,4	4.298		157	27,4	4.073
THLB_ _072_ _	31,7	4.953		156	31,7	4.656
THLB_ _082_ _	35,4	5.508		156	35,4	5.219
THLB_ _092_ _	39,4	6.058		154	39,4	5.740
THLB_ _102_ _	44,8	6.848		153	44,8	6.488
THLB_ _112_ _	53,6	8.111		151	53,6	7.793
THLB_ _122_ _	61,8	9.543		154	61,8	9.165
THLB_ _132_ _	68,2	10.158		149	68,2	9.755
THLB_ _142_ _	75,9	11.197		148	75,9	10.753
THLB_ _152_ _	82,4	12.045		146	82,4	11.567
THLB_ _162_ _	92,1	13.258		144	92,1	12.732

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



POWER AND OPTICAL FLUX I B
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	Efficiency
THLB_ _012_ _	12,9	1.957		152	12,9	1.880
THLB_ _022_ _	15,4	2.376		154	15,4	2.279
THLB_ _032_ _	17,6	2.704		154	17,6	2.597
THLB_ _042_ _	20,6	3.226		157	20,6	3.004
THLB_ _052_ _	23,8	3.739		157	23,8	3.497
THLB_ _062_ _	27,4	4.302		157	27,4	4.025
THLB_ _072_ _	31,7	4.958		156	31,7	4.601
THLB_ _082_ _	35,4	5.514		156	35,4	5.157
THLB_ _092_ _	39,4	6.064		154	39,4	5.673
THLB_ _102_ _	44,8	6.855		153	44,8	6.412
THLB_ _112_ _	53,6	8.119		151	53,6	7.700
THLB_ _122_ _	61,8	9.531		154	61,8	9.154
THLB_ _132_ _	68,2	10.146		149	68,2	9.743
THLB_ _142_ _	75,9	11.183		147	75,9	10.740
THLB_ _152_ _	82,4	12.030		146	82,4	11.553
THLB_ _162_ _	92,1	13.242		144	92,1	12.717

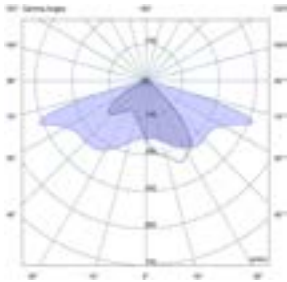
POWER AND OPTICAL FLUX I E
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	Efficiency
THLB_ _012_ _	12,9	1.909		148	12,9	1.834
THLB_ _022_ _	15,4	2.318		151	15,4	2.224
THLB_ _032_ _	17,6	2.638		150	17,6	2.534
THLB_ _042_ _	20,6	3.147		153	20,6	2.930
THLB_ _052_ _	23,8	3.647		153	23,8	3.412
THLB_ _062_ _	27,4	4.197		153	27,4	3.926
THLB_ _072_ _	31,7	4.837		153	31,7	4.489
THLB_ _082_ _	35,4	5.379		152	35,4	5.031
THLB_ _092_ _	39,4	5.916		150	39,4	5.534
THLB_ _102_ _	44,8	6.688		149	44,8	6.256
THLB_ _112_ _	53,6	7.921		148	53,6	7.512
THLB_ _122_ _	61,8	9.293		150	61,8	8.925
THLB_ _132_ _	68,2	9.892		145	68,2	9.500
THLB_ _142_ _	75,9	10.904		144	75,9	10.472
THLB_ _152_ _	82,4	11.729		142	82,4	11.265
THLB_ _162_ _	92,1	12.911		140	92,1	12.399

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

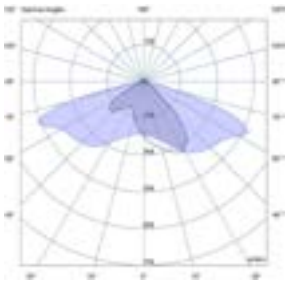
OPTICS

Narrow V14



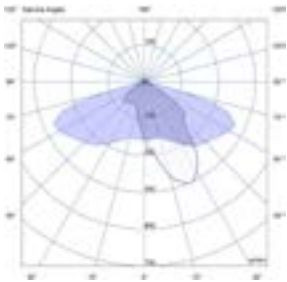
Asymmetrical street optics - Narrow beam
 $L / H = 0,5 \div 0,9$

Regular V25



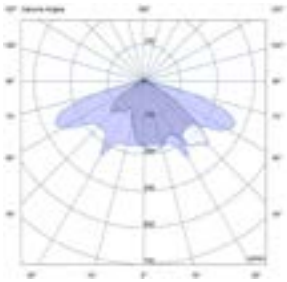
Asymmetrical street optics - Medium beam
 $L / H = 0,9 \div 1,1$

Regular Comfort A-V05



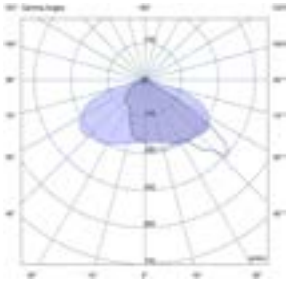
Asymmetrical Optics - Comfort
 $L / H = 1,0$

Wide W-V07



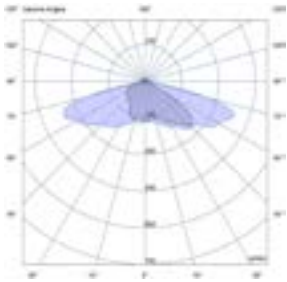
Asymmetrical street optics - Wide beam
 $L / H = 1,1 \div 1,3$

Extra Wide V20



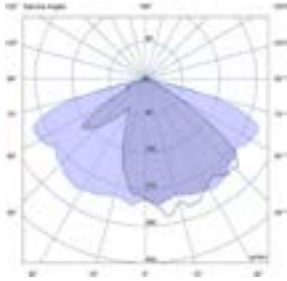
Asymmetrical optics - Very wide beam
 $L / H = 1,3 \div 1,6$

Front-Back V10



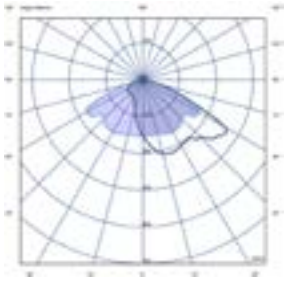
Asymmetrical Street Optics - Front-Back
 $L / H = 1,2 \div 1,5$

Wide B-V08



Asymmetrical street optics - Wide beam
 $L / H = 1,2 \div 1,5$

Forward Wide E-L01

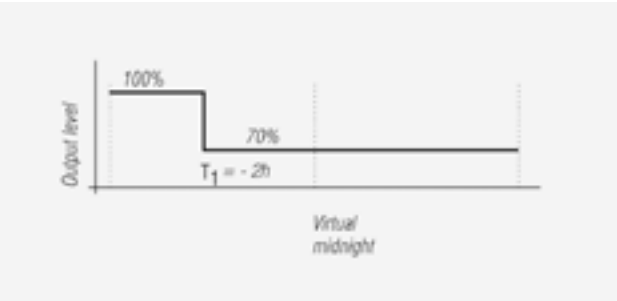


Asymmetrical optics - Very wide beam
 $L / H = 1,5-2,0$

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

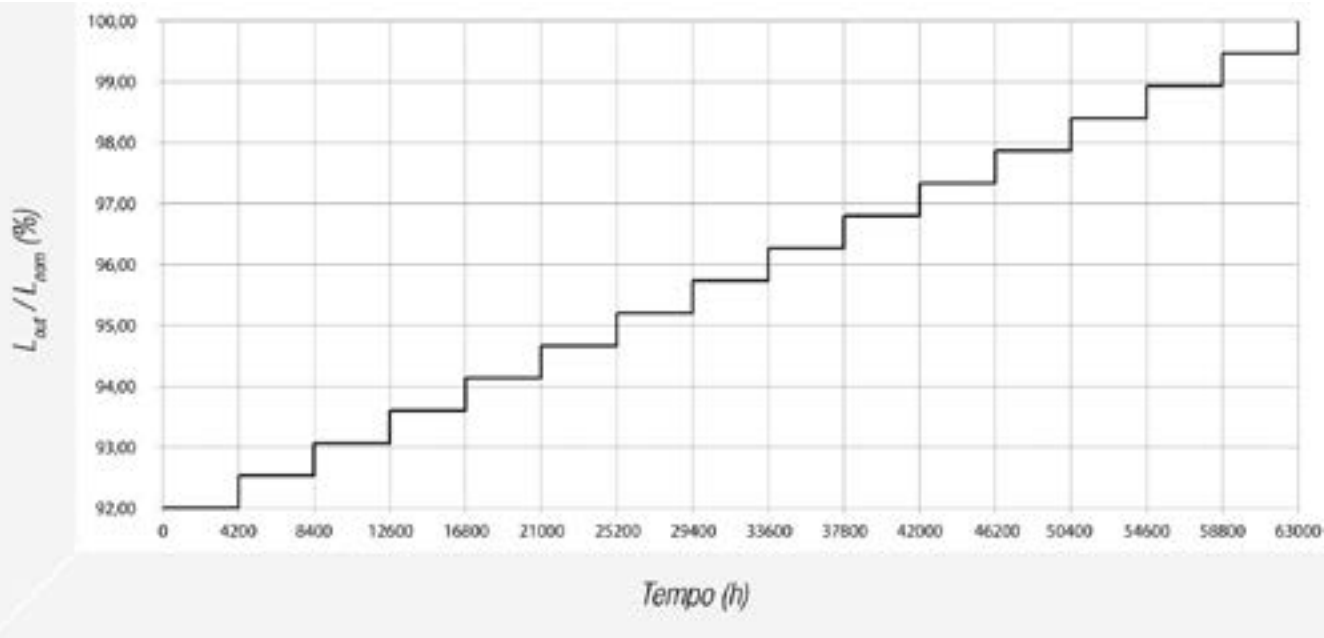
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please
contact the sales department.

STANDARD CLO PROFILE



** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

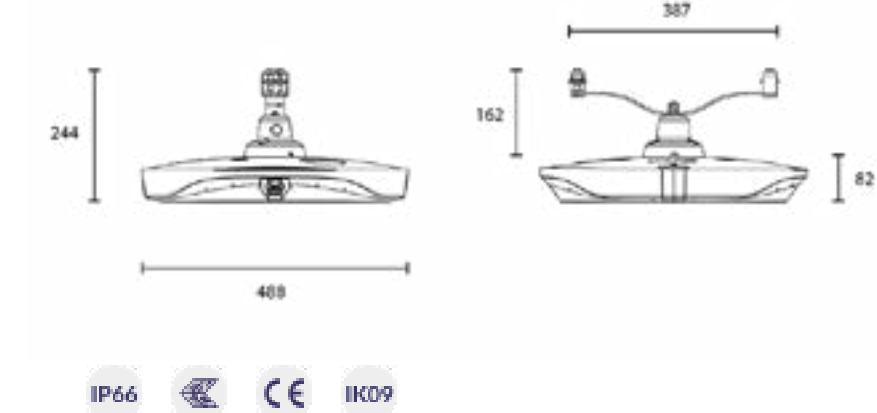


CODING						
	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
THLB	R	8	XX	2	N	A
	N Narrow V14	1 Cool White 5,500K	01 12.9	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	R Regular V25	2 Warm White 3,000K	02 15.4	Versions available on request	M Virtual Midnight**	B Extra Suppressor
	A Regular Comfort A-V05	8 Neutral White 4,000K	03 17.6		Z Virtual Midnight** + CLO	L Standard Surge Protection
	W Wide W-V07	Versions available on request	04 20.6	1 Class I (120-270V)	L Zhaga 18 + Virtual Midnight**	
	D Extra Wide V20		05 23.8			
	F Front-Back V10	5 Warm White 2,700K	06 27.4		Y Zhaga 18 + Virtual Midnight** + CLO	
	B Wide B-V08	9 Extra Warm White 2,200K	07 31.7			
	E Forward Wide E-L01		08 35.4			
			09 39.4			
			10 44.8			
			11 53.6			
			12 61.8			
			13 68.2			
			14 75.9			
			15 82.4			
			16 92.1			

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



THEMIS C GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	S: Symmetric S-SW07; U: Roto-Wide U-V04; C: Rotosimmetric C-V03; Z: Symmetric Z-L04;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires Max. 4 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK09
IP Grade	IP66
Wiring	Internal connections - accessibility without tools
Dimensions	diam 488 x 225 mm
Weight	7 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0,97 (at full load)
Control system	Automatic "virtual midnight" dimming system with up to 3 steps and CLO function; DALI; remote control based on lumawise system
Overvoltage protection	12kV differential mode, 12kV common mode, SPD 5kA on request
Operating temperature	-20°C +40°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr
MATERIALS	
Fixing	Suspension
Heatsink	Die-cast aluminium; painted "Dark Coal"
Frame	Die-cast aluminium; painted "Dark Coal"
Optics	Multi-layer PMMA lenses
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact



The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

POWER AND OPTICAL FLUX I S
(T_{amb}=25°C)

CODE	Power (W)	4000K		3000K	
		Flux (lm)	Efficiency	Flux (lm)	Efficiency
THCB_ _022_ _	15,0	2.377	158	15,0	156
THCB_ _042_ _	21,0	3.448	164	21,0	156
THCB_ _062_ _	35,3	5.600	159	35,3	152
THCB_ _082_ _	46,2	7.092	154	46,2	147
THCB_ _102_ _	63,6	9.092	143	63,6	140
THCB_ _112_ _	79,0	11.134	141	79,0	135

POWER AND OPTICAL FLUX I U
(T_{amb}=25°C)

CODE	Power (W)	4000K		3000K	
		Flux (lm)	Efficiency	Flux (lm)	Efficiency
THCB_ _022_ _	15,0	2.420	161	15,0	158
THCB_ _042_ _	21,0	3.510	167	21,0	158
THCB_ _062_ _	35,3	5.700	161	35,3	155
THCB_ _082_ _	46,2	7.219	156	46,2	150
THCB_ _102_ _	63,6	9.254	146	63,6	143
THCB_ _112_ _	79,0	11.333	143	79,0	137

POWER AND OPTICAL FLUX I C
(T_{amb}=25°C)

CODE	Power (W)	4000K		3000K	
		Flux (lm)	Efficiency	Flux (lm)	Efficiency
THCB_ _022_ _	15,0	2.418	161	15,0	159
THCB_ _042_ _	21,0	3.508	167	21,0	159
THCB_ _062_ _	35,3	5.697	161	35,3	155
THCB_ _082_ _	46,2	7.245	157	46,2	150
THCB_ _102_ _	63,6	9.288	146	63,6	143
THCB_ _112_ _	79,0	11.373	144	79,0	137

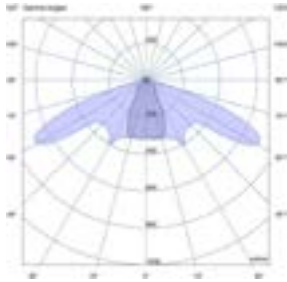
POWER AND OPTICAL FLUX I Z
(T_{amb}=25°C)

CODE	Power (W)	4000K		3000K	
		Flux (lm)	Efficiency	Flux (lm)	Efficiency
THCB_ _022_ _	15,0	2.449	163	15,0	160
THCB_ _042_ _	21,0	3.553	169	21,0	160
THCB_ _062_ _	35,3	5.770	163	35,3	157
THCB_ _082_ _	46,2	7.308	158	46,2	152
THCB_ _102_ _	63,6	9.369	147	63,6	144
THCB_ _112_ _	79,0	11.473	145	79,0	139

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

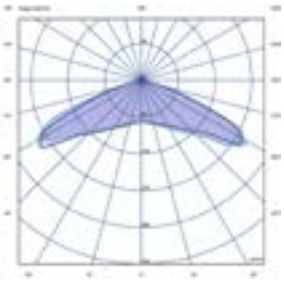
OPTICS

Symmetric S-SW07



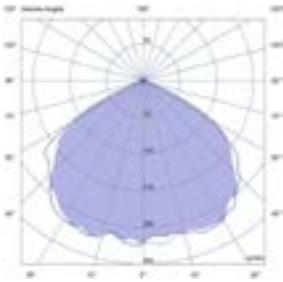
Symmetrical Optics
L / H = 1,0

Roto-Wide U-V04



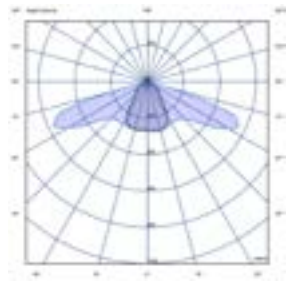
Rotosymmetrical road optics - Wide beam

Rotosimmetric C-V03



Rotosymmetrical road optics - Medium beam

Symmetric Z-L04



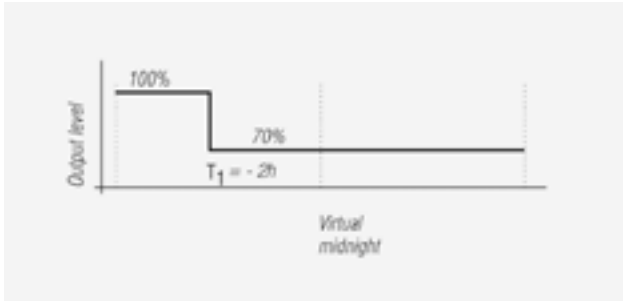
Symmetrical street optics - Medium beam
L / H = 1,2

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



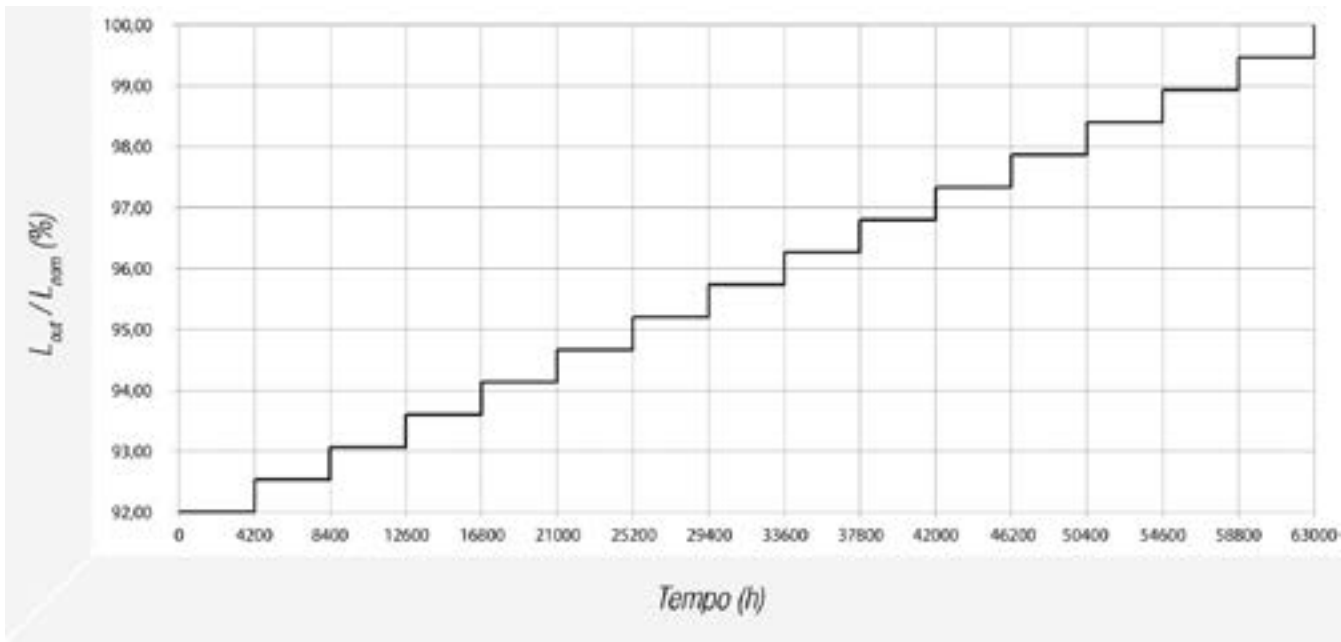
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please contact the sales department.

STANDARD CLO PROFILE



** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



CODING

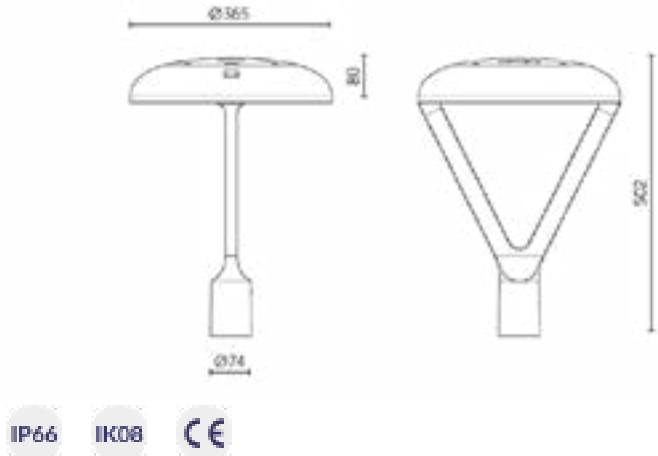
	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
THCB	R	8	XX	2	N	A
	S Symmetric S-SW07	2 Warm White 3,000K	02 15	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	U Roto-Wide U-V04	8 Neutral White 4,000K	04 21	Versions available on request 1 Class I (120-270V)	M Virtual Midnight**	B Extra Suppressor
	C Rotosymmetric C-V03	Versions available on request	06 35.3		Z Virtual Midnight** + CLO	L Standard Surge Protection
	Z Symmetric Z-L04		08 46.2		L Zhaga 18 + Virtual Midnight**	
		1 Cool White 5,500K	10 63.6		Y Zhaga 18 + Virtual Midnight** + CLO	
		5 Warm White 2,700K	11 79			
		9 Extra Warm White 2,200K				

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



Hêmera





HEMERA PT PRO
GENERAL CHARACTERISTICS

Applications	Street lighting
Optics	N: Narrow V14; D: Extra Wide V20; R: Regular V25; E: Forward Wide E-L01; F: Front-Back V10; U: Rotosymmetric Wide U-V04; C: Rotosimmetric C-V03; T: Forward Wide TT4;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires Max. 4 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK08
IP Grade	IP66
Wiring	Internal connections
Dimensions	diam 365 x 502 mm
Weight	5 kg

ELECTRICAL CHARACTERISTICS

Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0,95 (at full load)
Control system	Automatic "virtual midnight" dimming system with up to 3 steps and CLO function; DALI; remote control based on lumawise system
Overvoltage protection	10kV differential mode, 10kV common mode, SPD 5kA on request
Operating temperature	-30°C +50°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr

MATERIALS

Fixing	Post top mounting Suitable for 46 to 60 mm diameter poles
Heatsink	Die-cast aluminium; painted "Dark Coal"
Frame	Die-cast aluminium; painted "Dark Coal"
Optics	Multi-layer PMMA lenses
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



POWER AND OPTICAL FLUX I N
(Tamb=25°C)

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
HEPB__002__	13,0	1.713	132	13,0	1.647	127
HEPB__012__	16,0	2.108	132	16,0	2.027	127
HEPB__022__	19,5	2.598	133	19,5	2.497	128
HEPB__032__	23,0	3.057	133	23,0	2.940	128
HEPB__042__	26,0	3.439	132	26,0	3.306	127
HEPB__052__	29,0	3.829	132	29,0	3.681	127
HEPB__062__	36,0	4.815	134	36,0	4.629	129
HEPB__072__	42,0	5.553	132	42,0	5.339	127
HEPB__082__	49,0	6.327	129	49,0	6.084	124
HEPB__092__	55,0	7.020	128	55,0	6.749	123

POWER AND OPTICAL FLUX I D
(Tamb=25°C)

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
HEPB__002__	13,0	1.745	134	13,0	1.678	129
HEPB__012__	16,0	2.148	134	16,0	2.065	129
HEPB__022__	19,5	2.646	136	19,5	2.544	130
HEPB__032__	23,0	3.115	135	23,0	2.995	130
HEPB__042__	26,0	3.503	135	26,0	3.368	130
HEPB__052__	29,0	3.901	135	29,0	3.751	129
HEPB__062__	36,0	4.905	136	36,0	4.716	131
HEPB__072__	42,0	5.658	135	42,0	5.440	130
HEPB__082__	49,0	6.446	132	49,0	6.198	126
HEPB__092__	55,0	7.152	130	55,0	6.981	127

POWER AND OPTICAL FLUX I R
(Tamb=25°C)

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
HEPB__002__	13,0	1.713	132	13,0	1.647	127
HEPB__012__	16,0	2.109	132	16,0	2.027	127
HEPB__022__	19,5	2.598	133	19,5	2.498	128
HEPB__032__	23,0	3.058	133	23,0	2.940	128
HEPB__042__	26,0	3.439	132	26,0	3.307	127
HEPB__052__	29,0	3.830	132	29,0	3.682	127
HEPB__062__	36,0	4.816	134	36,0	4.630	129
HEPB__072__	42,0	5.554	132	42,0	5.340	127
HEPB__082__	49,0	6.328	129	49,0	6.085	124
HEPB__092__	55,0	7.021	128	55,0	6.751	123

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



POWER AND OPTICAL FLUX I E
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	Efficiency
HEPB_ _002_ _	13,0	1.750		135	13,0	129
HEPB_ _012_ _	16,0	2.154		135	16,0	129
HEPB_ _022_ _	19,5	2.654		136	19,5	131
HEPB_ _032_ _	23,0	3.123		136	23,0	131
HEPB_ _042_ _	26,0	3.513		135	26,0	130
HEPB_ _052_ _	29,0	3.912		135	29,0	130
HEPB_ _062_ _	36,0	4.919		137	36,0	131
HEPB_ _072_ _	42,0	5.673		135	42,0	130
HEPB_ _082_ _	49,0	6.464		132	49,0	127
HEPB_ _092_ _	55,0	7.171		130	55,0	125

POWER AND OPTICAL FLUX I F
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	Efficiency
HEPB_ _002_ _	13,0	1.754		135	13,0	130
HEPB_ _012_ _	16,0	2.159		135	16,0	130
HEPB_ _022_ _	19,5	2.660		136	19,5	131
HEPB_ _032_ _	23,0	3.131		136	23,0	131
HEPB_ _042_ _	26,0	3.521		135	26,0	130
HEPB_ _052_ _	29,0	3.921		135	29,0	130
HEPB_ _062_ _	36,0	4.930		137	36,0	132
HEPB_ _072_ _	42,0	5.686		135	42,0	130
HEPB_ _082_ _	49,0	6.479		132	49,0	127
HEPB_ _092_ _	55,0	7.188		131	55,0	126

POWER AND OPTICAL FLUX I U
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	Efficiency
HEPB_ _002_ _	13,0	1.804		139	13,0	133
HEPB_ _012_ _	16,0	2.220		139	16,0	133
HEPB_ _022_ _	19,5	2.735		140	19,5	135
HEPB_ _032_ _	23,0	3.219		140	23,0	135
HEPB_ _042_ _	26,0	3.620		139	26,0	134
HEPB_ _052_ _	29,0	4.031		139	29,0	134
HEPB_ _062_ _	36,0	5.069		141	36,0	135
HEPB_ _072_ _	42,0	5.847		139	42,0	134
HEPB_ _082_ _	49,0	6.662		136	49,0	131
HEPB_ _092_ _	55,0	7.391		134	55,0	129

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



POWER AND OPTICAL FLUX I C
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	Efficiency
HEPB_ _002_ _	13,0	1.878		144	13,0	139
HEPB_ _012_ _	16,0	2.311		144	16,0	139
HEPB_ _022_ _	19,5	2.847		146	19,5	140
HEPB_ _032_ _	23,0	3.352		146	23,0	140
HEPB_ _042_ _	26,0	3.769		145	26,0	139
HEPB_ _052_ _	29,0	4.197		145	29,0	139
HEPB_ _062_ _	36,0	5.278		147	36,0	141
HEPB_ _072_ _	42,0	6.087		145	42,0	139
HEPB_ _082_ _	49,0	6.936		142	49,0	136
HEPB_ _092_ _	55,0	7.695		140	55,0	135

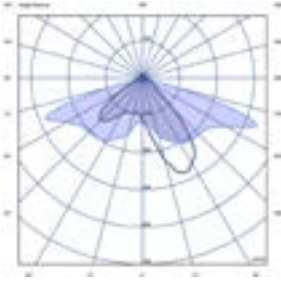
POWER AND OPTICAL FLUX I T
(T_{amb}=25°C)

CODE	Power (W)	4000K		Efficiency	3000K	
		Flux (lm)			Flux (lm)	Efficiency
HEPB_ _002_ _	13,0	1.658		128	13,0	123
HEPB_ _012_ _	16,0	2.040		128	16,0	123
HEPB_ _022_ _	19,5	2.513		129	19,5	124
HEPB_ _032_ _	23,0	2.958		129	23,0	124
HEPB_ _042_ _	26,0	3.327		128	26,0	123
HEPB_ _052_ _	29,0	3.705		128	29,0	123
HEPB_ _062_ _	36,0	4.658		129	36,0	124
HEPB_ _072_ _	42,0	5.373		128	42,0	123
HEPB_ _082_ _	49,0	6.122		125	49,0	120
HEPB_ _092_ _	55,0	6.792		123	55,0	119

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

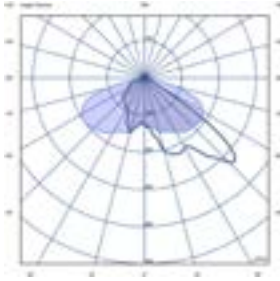
OPTICS

Narrow V14



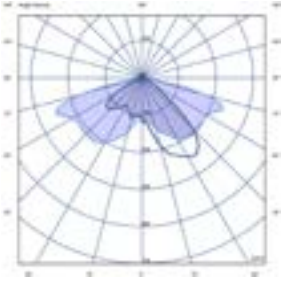
Asymmetrical street optics - Narrow beam
 $L/H = 0,5 \div 0,9$

Extra Wide V20



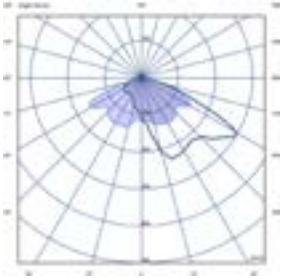
Asymmetrical optics - Very wide beam
 $L/H = 1,3 \div 1,6$

Regular V25



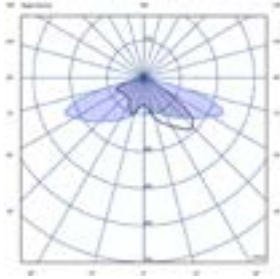
Asymmetrical street optics - Medium beam
 $L/H = 0,9 \div 1,1$

Forward Wide E-L01



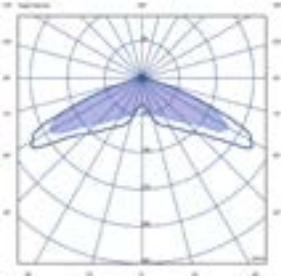
$L/H = 1,6-2,0$

Front-Back V10



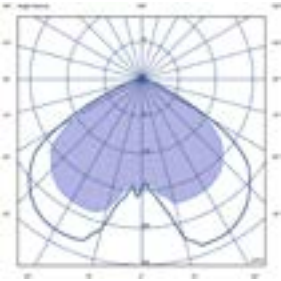
Asymmetrical Street Optics - Front-Back
 $L/H = 1,2 \div 1,5$

Rotosymmetic Wide U-V04



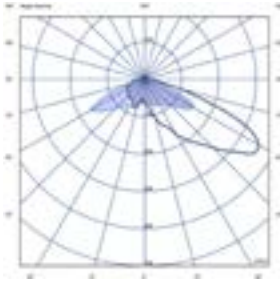
Wide Rotosymmetrical Optics

Rotosimmetric C-V03



Rotosymmetrical road optics - Medium beam

Forward Wide TT4

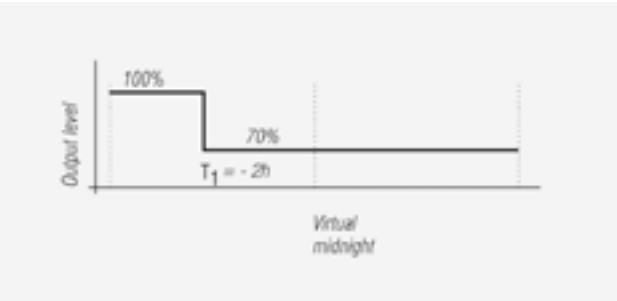


$L/H = 1,6-2,0$

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

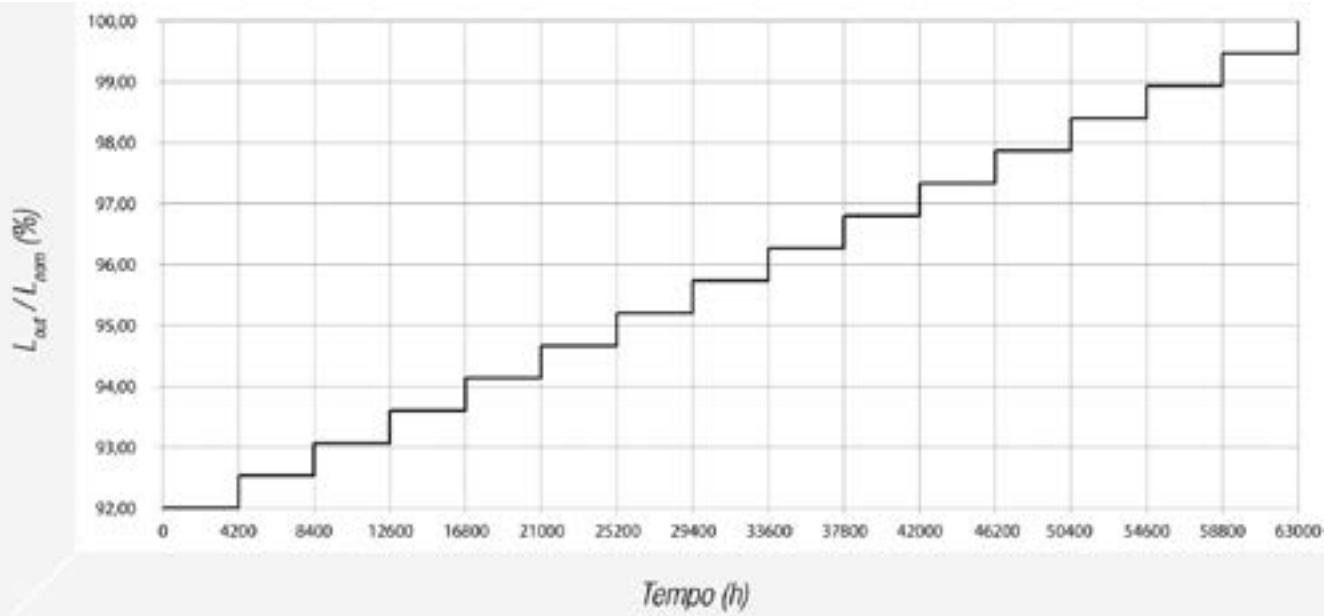
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please
contact the sales department.

STANDARD CLO PROFILE

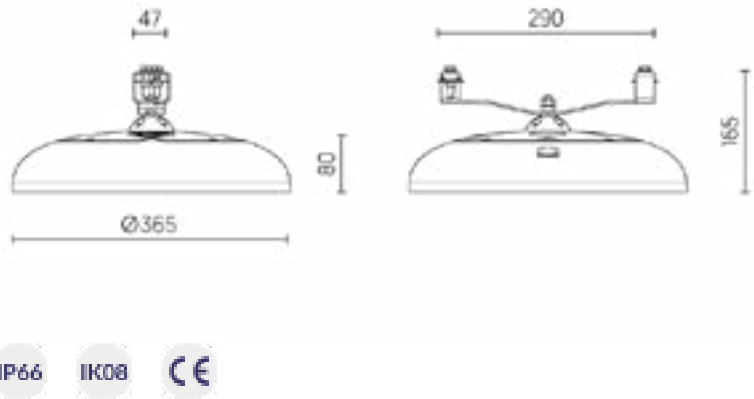


** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



CODING						
	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
HEPB	R	8	XX	2	N	A
	N Narrow V14	1 Cool White 5,500K	00 13	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	D Extra Wide V20	2 Warm White 3,000K	01 16	Versions available on request	M Virtual Midnight**	B Extra Suppressor
	R Regular V25	8 Neutral White 4,000K	02 19.5		Z Virtual Midnight** + CLO	L Standard Surge Protection
	E Forward Wide E-L01	Versions available on request	03 23	1 Class I (120-270V)	L Zhaga 18 + Virtual Midnight**	
	F Front-Back V10		04 26		Y Zhaga 18 + Virtual Midnight** + CLO	
	U Rotosymmetric Wide U-V04	5 Warm White 2,700K	05 29			
	C Rotosymmetric C-V03	9 Extra Warm White 2,200K	06 36			
	T Forward Wide TT4		07 42			
			08 49			
			09 55			

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



HEMERA C PRO GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	S: Symmetric S-SW07; U: Roto-Wide U-V04; C: Rotosimmetric C-V03; Z: Symmetric Z-L04;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires typical 4 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK08
IP Grade	IP66
Wiring	Internal connections
Dimensions	diam 365 x 80 mm
Weight	5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0,95 (at full load)
Control system	Automatic "virtual midnight" dimming system with up to 3 steps and CLO function; DALI; remote control based on lumawise system
Overvoltage protection	10kV differential mode, 10kV common mode, SPD 5kA on request
Operating temperature	-30°C +50°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr
MATERIALS	
Fixing	Suspension
Heatsink	Die-cast aluminium
Frame	Die-cast aluminium; painted "Dark Coal"
Optics	Multi-layer PMMA lenses
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



POWER AND OPTICAL FLUX I S
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
HECB_ _002_ _	13,0	1.996	154	13,0	1.919	148	
HECB_ _012_ _	16,0	2.456	154	16,0	2.361	148	
HECB_ _022_ _	19,5	3.026	155	19,5	2.909	149	
HECB_ _032_ _	23,0	3.561	155	23,0	3.424	149	
HECB_ _042_ _	26,0	4.005	154	26,0	3.851	148	
HECB_ _052_ _	29,0	4.460	154	29,0	4.288	148	
HECB_ _062_ _	36,0	5.608	156	36,0	5.392	150	
HECB_ _072_ _	42,0	6.468	154	42,0	6.219	148	
HECB_ _082_ _	49,0	7.370	150	49,0	7.086	145	
HECB_ _092_ _	55,0	8.177	149	55,0	7.862	143	

POWER AND OPTICAL FLUX I U
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
HECB_ _002_ _	13,0	1.917	147	13,0	1.844	142	
HECB_ _012_ _	16,0	2.360	148	16,0	2.269	142	
HECB_ _022_ _	19,5	2.907	149	19,5	2.795	143	
HECB_ _032_ _	23,0	3.422	149	23,0	3.290	143	
HECB_ _042_ _	26,0	3.849	148	26,0	3.700	142	
HECB_ _052_ _	29,0	4.286	148	29,0	4.120	142	
HECB_ _062_ _	36,0	5.389	150	36,0	5.181	144	
HECB_ _072_ _	42,0	6.215	148	42,0	5.976	142	
HECB_ _082_ _	49,0	7.082	145	49,0	6.809	139	
HECB_ _092_ _	55,0	7.857	143	55,0	7.554	137	

POWER AND OPTICAL FLUX I C
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
HECB_ _002_ _	13,0	2.031	156	13,0	1.953	150	
HECB_ _012_ _	16,0	2.500	156	16,0	2.403	150	
HECB_ _022_ _	19,5	3.080	158	19,5	2.961	152	
HECB_ _032_ _	23,0	3.625	158	23,0	3.485	152	
HECB_ _042_ _	26,0	4.077	157	26,0	3.920	151	
HECB_ _052_ _	29,0	4.540	157	29,0	4.365	151	
HECB_ _062_ _	36,0	5.709	159	36,0	5.489	152	
HECB_ _072_ _	42,0	6.584	157	42,0	6.330	151	
HECB_ _082_ _	49,0	7.502	153	49,0	7.213	147	
HECB_ _092_ _	55,0	8.323	151	55,0	8.003	146	

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



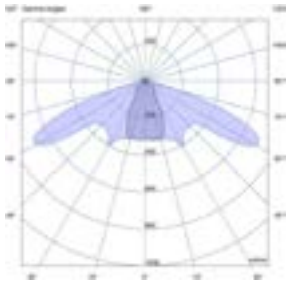
POWER AND OPTICAL FLUX I Z
(T_{amb}=25°C)

		4000K				3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency	
HECB_ _002_ _	13,0	2.056	158	13,0	1.977	152	
HECB_ _012_ _	16,0	2.531	158	16,0	2.433	152	
HECB_ _022_ _	19,5	3.118	160	19,5	2.998	154	
HECB_ _032_ _	23,0	3.670	160	23,0	3.529	153	
HECB_ _042_ _	26,0	4.128	159	26,0	3.968	153	
HECB_ _052_ _	29,0	4.596	158	29,0	4.419	152	
HECB_ _062_ _	36,0	5.780	161	36,0	5.557	154	
HECB_ _072_ _	42,0	6.666	159	42,0	6.409	153	
HECB_ _082_ _	49,0	7.595	155	49,0	7.302	149	
HECB_ _092_ _	55,0	8.427	153	55,0	8.102	147	

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

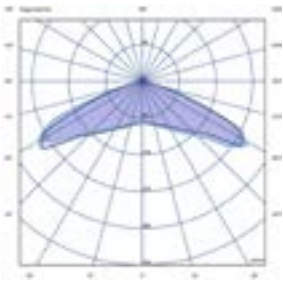
OPTICS

Symmetric S-SW07



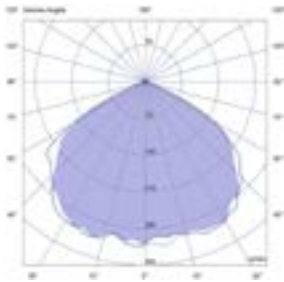
Symmetrical Optics
L / H = 1,0

Roto-Wide U-V04



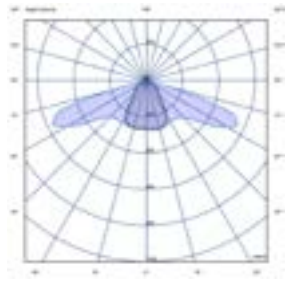
Rotosymmetrical road optics - Wide beam

Rotosymmetric C-V03



Rotosymmetrical road optics - Medium beam

Symmetric Z-L04

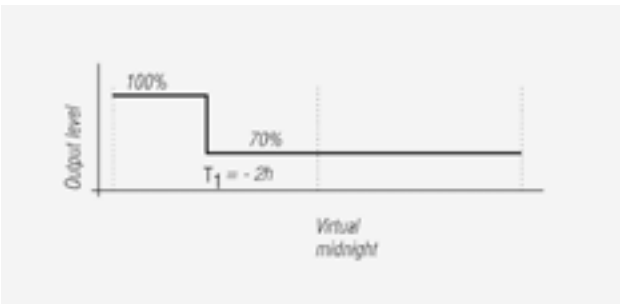


Symmetrical street optics - Medium beam
L / H = 1,2

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

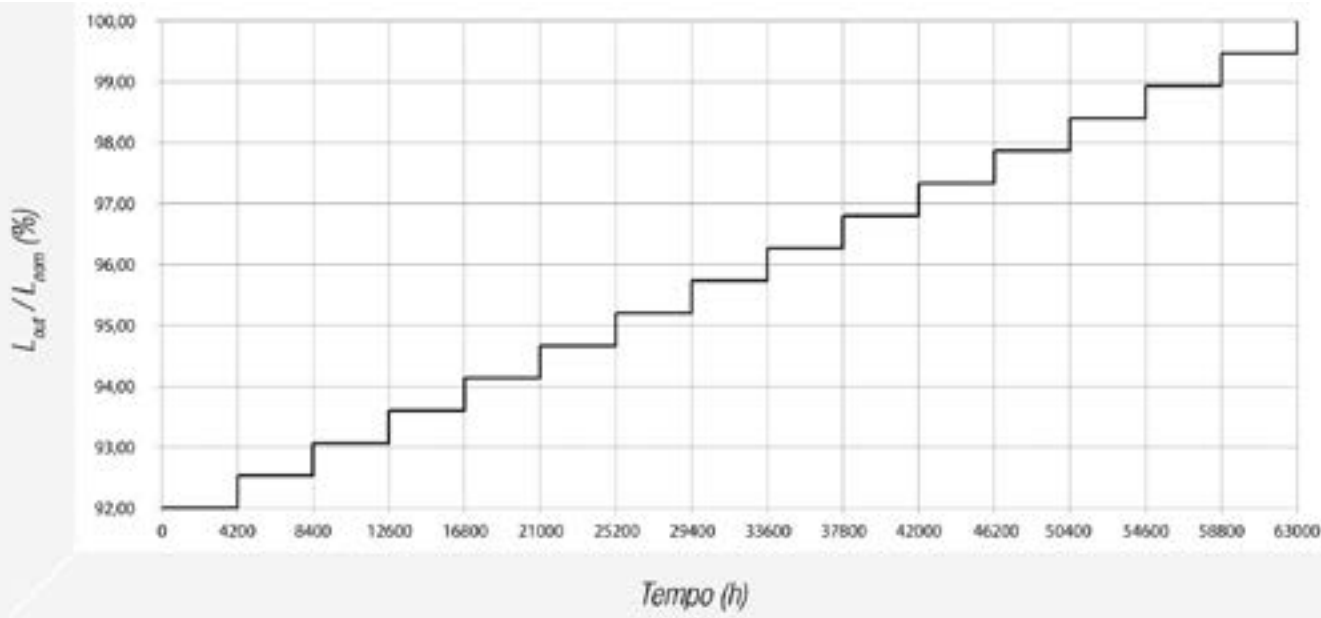
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please
contact the sales department.

STANDARD CLO PROFILE



** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



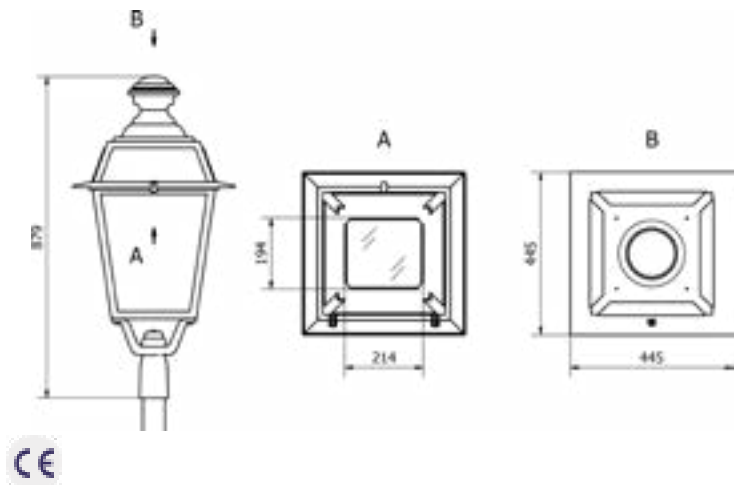
CODING						
	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
HECB	R	8	XX	2	N	A
	S Symmetric S-SW07	1 Cool White 5,500K	00 13	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	U Roto-Wide U-V04	2 Warm White 3,000K	01 16	Versions available on request 1 Class I (120-270V)	M Virtual Midnight**	B Extra Suppressor
	C Rotosimmetric C-V03	8 Neutral White 4,000K	02 19.5		Z Virtual Midnight** + CLO	
	Z Symmetric Z-L04	Versions available on request 5 Warm White 2,700K 9 Extra Warm White 2,200K	03 23		L Zhaga 18 + Virtual Midnight**	
			04 26		Y Zhaga 18 + Virtual Midnight** + CLO	
			05 29			
			06 36			
			07 42			
			08 49			
			09 55			

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



Koinè





Koinè GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires typical 4 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK08
IP Grade	IP66
Wiring	Internal connections
Dimensions	445 x 445 x 879 mm
Weight	10 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz
Power factor	> 0,97 (at full load)
Control system	Automatic "virtual midnight" dimming system with up to 3 steps and CLO function; DALI; remote control based on lumawise system
Overvoltage protection	10kV differential mode, 10kV common mode, SPD 5kA on request
Operating temperature	-20°C +40°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr
MATERIALS	
Fixing	Post top mounting Suitable for 40 to 76 mm diameter poles
Heatsink	Die-cast aluminium;
Frame	Die-cast aluminium; Painted RAL 9005
Optics	Multi-layer PMMA lenses
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

POWER AND FLUX* LUMINAIRE
(T_{AMB}=25°C, T_C=4000K)

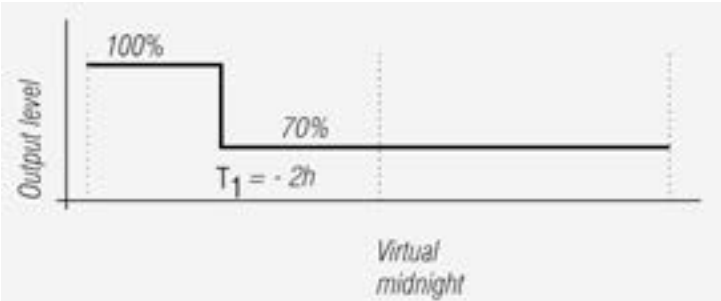
Koin	CODING	
	LED colour	Power
	2	
	8	

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



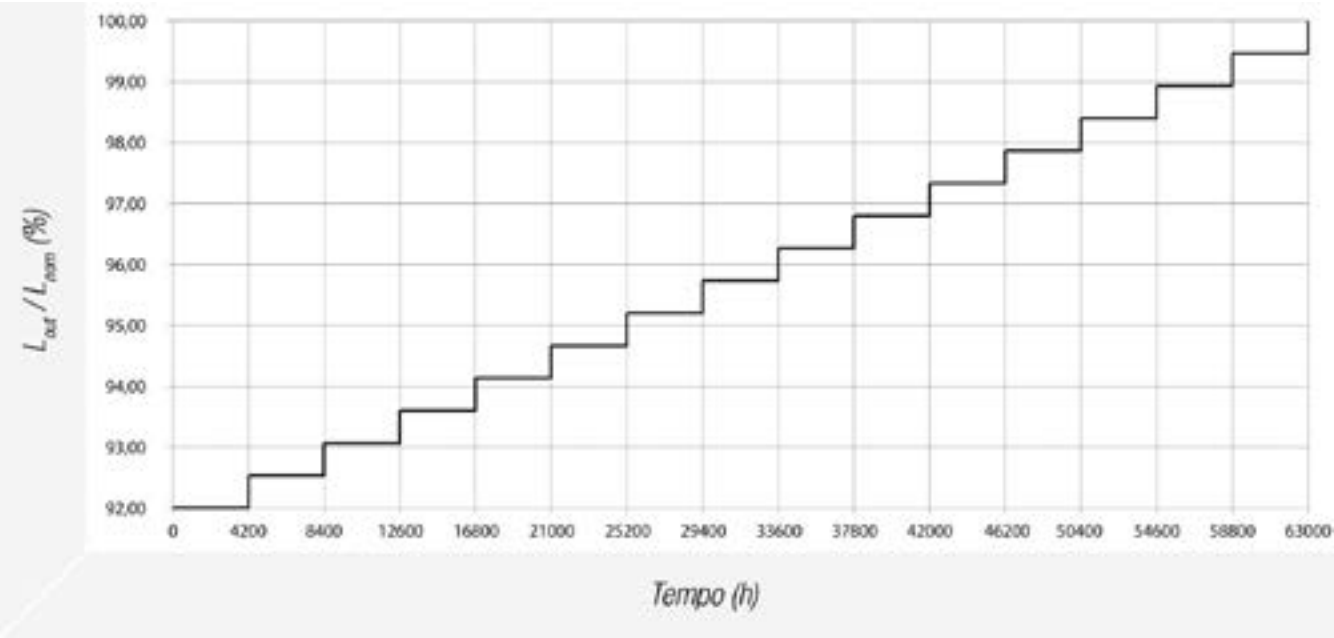
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please contact the sales department.

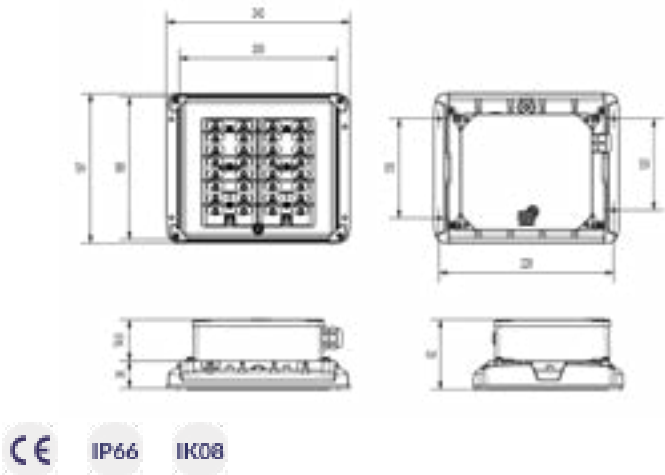
STANDARD CLO PROFILE



The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

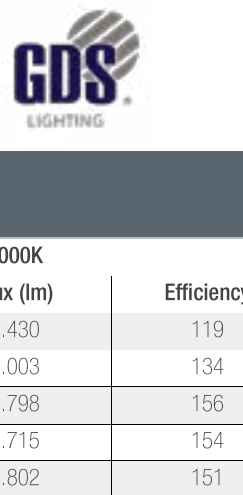
Kit Retrofit





KIT RETROFIT GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	R: Regular V25; D: Extra Wide V20; F: Front-Back V10; B: Wide B-V08; C: Rotosimmetric C-V03;
Colour temperature	2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires typical 4 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK08
IP Grade	IP66
Wiring	Internal connections
Dimensions	208 x 188 x 92 mm
Weight	2.2 kg
ELECTRICAL CHARACTERISTICS	
Power supply	230 V 50/60 Hz
Power factor	> 0,97 (at full load)
Control system	Automatic "virtual midnight" dimming system with up to 3 steps and CLO function; DALI; remote control based on lumawise system
Overvoltage protection	12kV differential mode, 12kV common mode, SPD 5kA on request
Operating temperature	-20°C +40°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr
MATERIALS	
Fixing	Custom on specific lamp body
Heatsink	Die-cast aluminium
Frame	Die-cast aluminium
Optics	Multi-layer PMMA lenses
Screen	Transparent toughened glass, 4 mm thick (C). Satin-finished glass on request (S)

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.



POWER AND OPTICAL FLUX I R (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
KN_ _A2_NAXXX	12,0	1.501	125	12,0	1.430	119
KN_ _02_NAXXX	15,0	2.102	140	15,0	2.003	134
KN_ _12_NAXXX	17,9	2.937	164	17,9	2.798	156
KN_ _22_NAXXX	24,1	3.899	162	24,1	3.715	154
KN_ _32_NAXXX	31,8	5.040	158	31,8	4.802	151
KN_ _42_NAXXX	37,5	5.817	155	37,5	5.542	148
KN_ _52_NAXXX	45,4	6.849	151	45,4	6.525	144
KN_ _62_NAXXX	49,4	7.309	148	49,4	6.964	141
POWER AND OPTICAL FLUX I D (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
KN_ _A2_NAXXX	12,0	1.495	125	12,0	1.430	119
KN_ _02_NAXXX	15,0	2.094	140	15,0	2.003	134
KN_ _12_NAXXX	17,9	2.926	163	17,9	2.798	156
KN_ _22_NAXXX	24,1	3.885	161	24,1	3.716	154
KN_ _32_NAXXX	31,8	5.022	158	31,8	4.803	151
KN_ _42_NAXXX	37,5	5.796	155	37,5	5.543	148
KN_ _52_NAXXX	45,4	6.824	150	45,4	6.526	144
KN_ _62_NAXXX	49,4	7.283	147	49,4	6.965	141
POWER AND OPTICAL FLUX I F (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
KN_ _A2_NAXXX	12,0	1.516	126	12,0	1.444	120
KN_ _02_NAXXX	15,0	2.123	142	15,0	2.022	135
KN_ _12_NAXXX	17,9	2.967	166	17,9	2.825	158
KN_ _22_NAXXX	24,1	3.940	163	24,1	3.751	156
KN_ _32_NAXXX	31,8	5.093	160	31,8	4.848	152
KN_ _42_NAXXX	37,5	5.878	157	37,5	5.596	149
KN_ _52_NAXXX	45,4	6.921	152	45,4	6.588	145
KN_ _62_NAXXX	49,4	7.386	150	49,4	7.031	142
POWER AND OPTICAL FLUX I B (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
KN_ _A2_NAXXX	12,0	1.499	125	12,0	1.432	119
KN_ _02_NAXXX	15,0	2.099	140	15,0	2.006	134
KN_ _12_NAXXX	17,9	2.933	164	17,9	2.802	157
KN_ _22_NAXXX	24,1	3.894	162	24,1	3.721	154
KN_ _32_NAXXX	31,8	5.034	158	31,8	4.809	151
KN_ _42_NAXXX	37,5	5.810	155	37,5	5.550	148
KN_ _52_NAXXX	45,4	6.840	151	45,4	6.535	144
KN_ _62_NAXXX	49,4	7.300	148	49,4	6.974	141

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

POWER AND OPTICAL FLUX I C (T _{amb} =25°C)						
CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
KN_ _A2_NAXXX	12,0	1.545	129	12,0	1.473	123
KN_ _02_NAXXX	15,0	2.164	144	15,0	2.063	138
KN_ _12_NAXXX	17,9	3.024	169	17,9	2.882	161
KN_ _22_NAXXX	24,1	4.015	167	24,1	3.827	159
KN_ _32_NAXXX	31,8	5.190	163	31,8	4.947	156
KN_ _42_NAXXX	37,5	5.990	160	37,5	5.710	152
KN_ _52_NAXXX	45,4	7.052	155	45,4	6.722	148
KN_ _62_NAXXX	49,4	7.526	152	49,4	7.174	145

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.

OPTICS

Regular V25

Asymmetrical street optics - Medium beam
L / H = 0,9 ÷ 1,1

Extra Wide V20

Asymmetrical optics - Very wide beam
L / H = 1,3 ÷ 1,6

Front-Back V10

Asymmetrical Street Optics - Front-Back
L / H = 1,2 ÷ 1,5

Wide B-V08

Asymmetrical street optics - Wide beam
L / H = 1,2 ÷ 1,5

Rotosimmetric C-V03

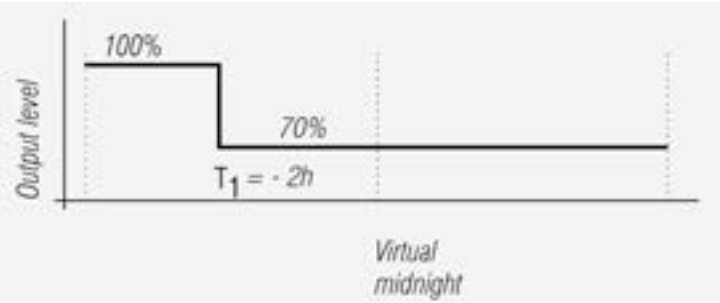
Rotosymmetrical road optics - Medium beam

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



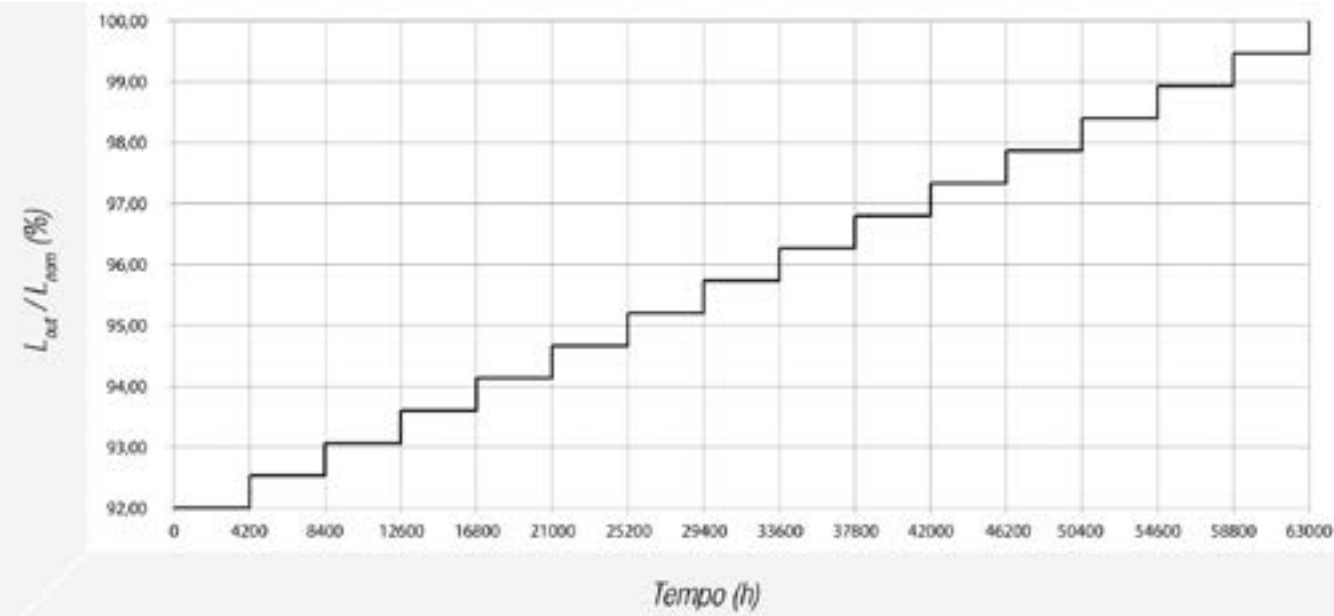
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please contact the sales department.

STANDARD CLO PROFILE



** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



CODING

	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
KN	R	8	XX	2	N	A
	R Regular V25	2 Warm White 3,000K	12	2 Class II (220-240V)	N No Dimming	A Standard Surge Protection
	D Extra Wide V20	8 Neutral White 4,000K	15	Versions available on request 1 Class I (120-270V)	M Virtual Midnight**	
	F Front-Back V10	Versions available on request	17.9		Z Virtual Midnight** + CLO	
	B Wide B-V08		24.1		L Zhaga 18 + Virtual Midnight**	
	C Rotosimmetric C-V03		31.8		Y Zhaga 18 + Virtual Midnight** + CLO	
		1 Cool White 5,500K	37.5			
		5 Warm White 2,700K	45.4			
		9 Extra Warm White 2,200K	49.4			

** Flux tolerance +/- 5%.
Other powers and flows on request.
External connections on request.



Authorised Distributor

LUCIDA S.E.A PTE LTD

83 Genting Lane, #07-03

Genting Building Singapore 349568

Email: kohlp@lucida.com.sg

HP: +65-97958960



www.gdslighting.com