

MERTRONIC®
LIGHTING

MERTRONIC® STREETLIGHT 2018



MERKUR®
GERMAN TECHNOLOGY

MERTRONIC®
LIGHTING

MERTRONIC® Street light
LED-HPS series



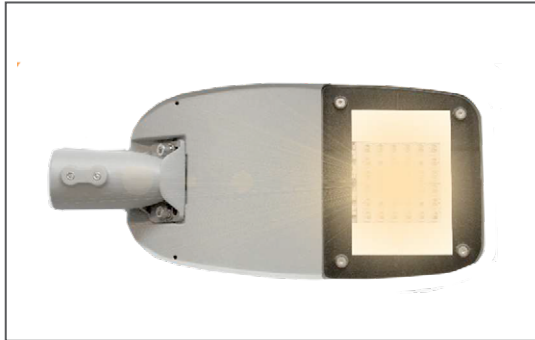
No blue light

World Innovation



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MERTRONIC® Street light LED-HPS series



MERTRONIC Street Light LED-HPS Series

MERKUR® presents the worlds first HPS imitating LED Lights with wide beam light distribution optics. The luminaires are suitable for intelligent street lighting networks. The LED-HPS Technology generates a yellow light without blue light contents by full conversion of the blue light spectrum.

With the new LED-HPS Street Lighting series we are offering a powerful high-performance solution. High quality finishing combines with versatile design! The body of the luminaire is made from Aluminium.

The LED-HPS technology generates a yellow light without blue spectrum content by full conversion of the blue light.

The new HPS imitating LED luminaires represent a powerful high-performance lighting system in a versatile and high-quality design with a body made of solid aluminium.

The unmatched light output creates upto 400lm/W. The low- and mid power LED mo-



dules are working at extremely low operating temperatures. Therefore heat is no issue in this series of luminaires resulting in an extremely high longevity of the entire system.

The optional networking, monitoring, dimming and sensor control capabilities of the lighting system ensure maximum flexibility and efficiency.

The LED system is water and dust protected according to protection class IP66. The luminaires comply with IK08 impact strength rating.

Features

- Luminous efficacy upto 400 lm/W
- No glare (no blue light)
- Low- or mid-power LED system
- Break-proof, dustproof and waterproof to IP66 (total lamp)
- Available in different versions, all with protection class IP66 and IK08
- Flexible and expandable
- Housing made of aluminum powder-coated in the color GRAY
- Available in three sizes
- 7-10 years warranty

MERTRONIC® Street light LED-HPS series

Benefits of the LED-HPS Technology:

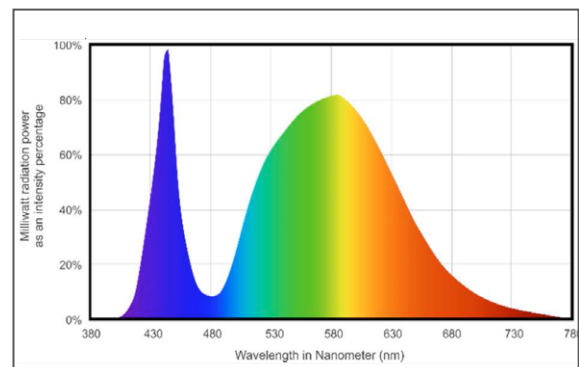
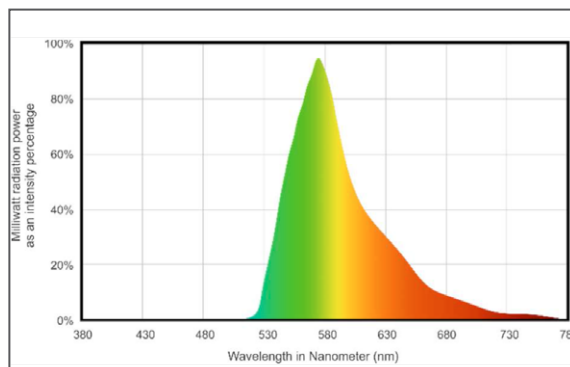
- Superior energy efficiency with system efficiencies upto 400 lm/W
- Zero blue emission
- Reduced/eliminated glare at foggy, snowy or rainy weather conditions
- Reduced impact on day & night rhythm of humans and animals
- Lower light pollution and darker skies (see below)
- Better viewing contrast at night due to increased contrast CRI



LED-HPS Technology eliminates glare at foggy, snowy or rainy weather conditions



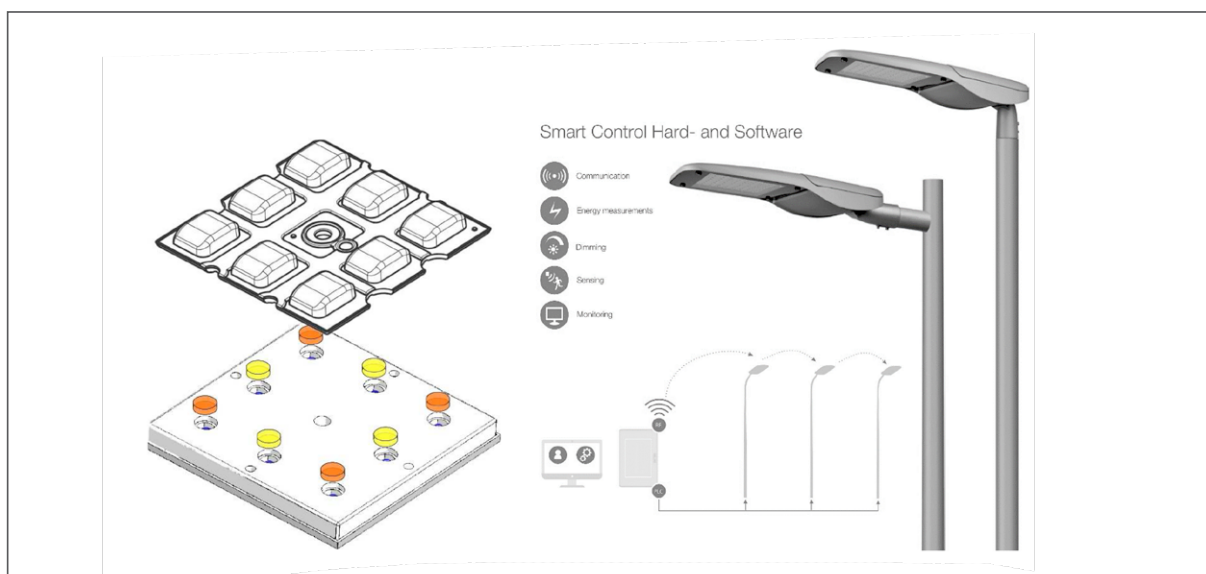
High glare with blue containing LED street lighting especially at foggy, snowy or winter conditions (3000- 6000K)



MERTRONIC® Street light LED-HPS series

Main Data

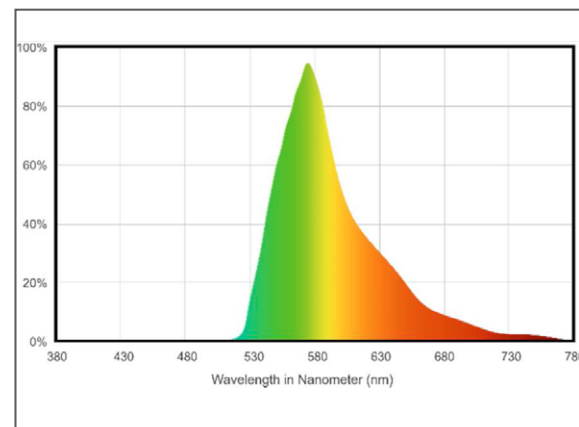
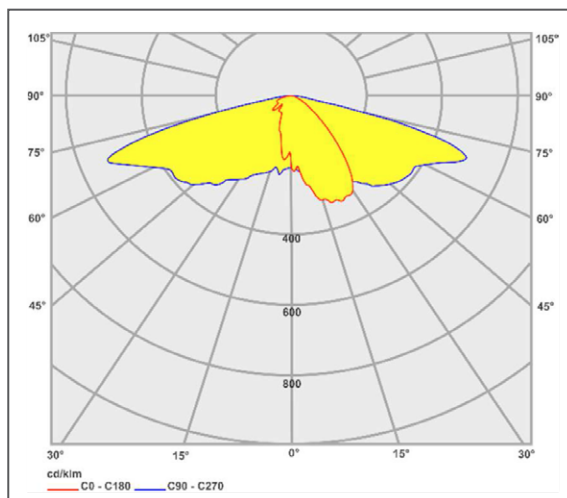
Electrical	
Lamp type	Low-power- or mid-power-led technology
Model	HPS standard
Electronic ballast	Electronically integrated into the lamp housing MeanWell HLG 60H or HLG 120H
Input voltage	90 V – 305 VA C
Protection class	SK08, IP66
System power	30 to 150 W
Option	Smart sensing, energy monitoring, remote controlling and dimming options
Lighting	
System luminous flux	Approx. 10.000, 25.000 or 40.000 lm (at 2200K)
LED technic	Cree-XP-G3 LED-Series (Blue) Carrier / converter plates and converters
Lumen depreciation	> 80 % remaining lumen after more than 80,000 hours
Color temperature	Approx. 2200 K (yellow) +/- 300 K Other HPS and neutral light colors on request
Further data EU-HPS 2200K	
Beam angle	150°
Materials	Housing made of aluminum and powder-coated. Front profile tempered glass with special optics (STRADELLA 8-T2) made of PMMA (permeability 91% / asymmetric)
Ambient temperature	From -30 °C up to +65 °C



MERTRONIC® Street light LED-HPS series

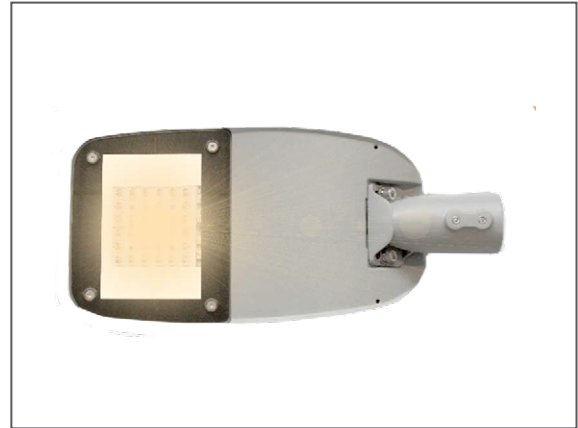
MERTRONIC® Street Light LED-HPD Series

Product Code	1021 0251 4152 6793	1021 0551 4152 6793	1021 1151 4152 6793
Matchcode	MT-LHPS-31W-240V-22K- BMMM	MT-LHPS-62W-240V-22K- BMM	MT-LHPS-124W-240V-22K- BMM
Total power consumption	31 W	62 W	124 W
System luminous flux (lm)	10.000 lm	25.000 lm	40.000 lm
Color temperature (CCT)	2200	2200	2200
CRI (Ra)	>35 ("No Blue")	>35 ("No Blue")	>35 ("No Blue")
	"Low Blue" custom color versions with CRI up to 80/85 realizable		
Dimensions mm (L x B x H)	45 x 25 x 8,5	55 x 29 x 9	70 x 32 x 10
Weight (kg) incl. driver	5,10	7.05	9,65
Typical lifetime (h)	>80.000	>80.000	>80.000
Standard warranty (y)	7	7	7



◀ Polar curve ▲ Light spectrum

MERTRONIC® Street light LED-HPS series



Technical Features

Body:	Die-cast aluminum
Optical system:	Super-white back reflector; adjustable custom light distribution lens array; clear tempered front glass
Mechanical details:	LED-Modules mounted on gear plate (galvanized steel); single button design for fast opening
Electric / Electronic:	<ul style="list-style-type: none">■ Electrical quick-fit connector■ Electronic driver integrated into lamp housing■ Operating voltage 90-305 V AC■ Surge protection up to 20 kV■ High efficiency driver with power factor $\geq 98\%$@115VAC■ Optional adds-on: smart sensing, energy monitoring, remote controlling and dimming options
Surface finishing:	Impact and corrosion resistant long life electrostatic powder coating Optional: self-cleaning non-stick Fluor-elastomer coating of front glass
Mounting height:	HPS31W 4-6m , HPS64W 5-9m , HPS124W 10-14m
Fixing:	Top or side fitting \varnothing 60 and 65 mm, Angle can be adjusted $90^\circ \pm 15^\circ$

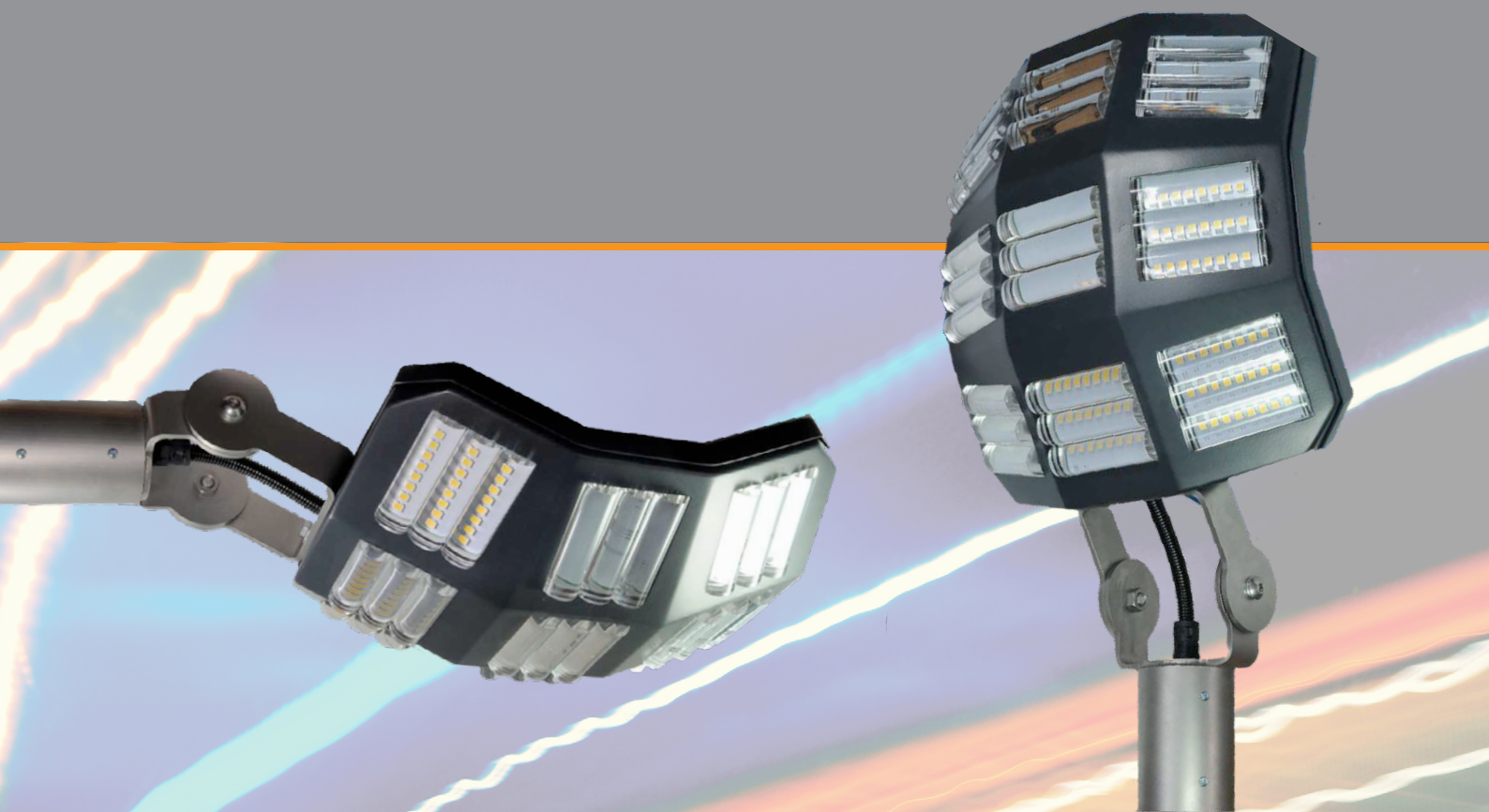
MERTRONIC® Street light LED-HPS series

Dimensions and connection dimensions



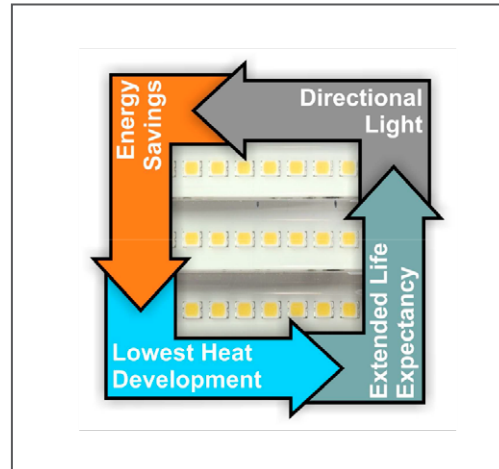
MERTRONIC®
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MERTRONIC® Outdoor light
LUX-PLUS series



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MERTRONIC® Outdoor light LUX-PLUS series



MERKUR® Lux-Plus-technology

MERKUR® LUX-PLUS is a low-power LED technology based on patented optics. The LUX-PLUS module generates, due to the special optics effect, a significant final lux gain.

The specially designed light optics enhance and raise the depth of the illumination. The low-power LED technology operates at extremely low operating temperatures offering a multitude of essential technical advantages.

The outstanding features of this quality product Made in Germany are:

- Up to 93% reduced electricity consumption compared with conventional lightings
- Up to 40% energy savings compared with standard LED systems
- Target-oriented emission of light, no light pollution
- No heat development, requiring no cooling devices
- Excellent environmental impact, reduced emissions, durable, self-cleaning.



MERTRONIC® Outdoor light LUX-PLUS series

Direct and outstanding benefits of the modular low power LED-Series Lux-Plus:

- Avoidance of light pollution in accordance with EU Directive 2017
- VDE-approved fulfillment of the Eco-Design Regulation
- Very good ecological balance
- Significant reduction of CO2 emissions
- Highest operational performance due to low operating temperature (low power - no heat)
- Low lumen depreciation (less than 20% after 50000h)

Advantages of light source and quality:

- Special optics, focusing and amplifying the emitted light
- Reduced light glare
- Partially penetrates haze, vapor and mist
- Night adaptive light
- Natural light perception
- Reduced shadowing
- No switching time (Ad-hoc light)
- Does not attract insects (no UVA or UVB emitted)

Technical, economic benefits:

- Low-power technology (low power consumption)
- No heat development, requiring no cooling devices
- Extension of life expectancy for the entire lamp and for the module in particular: Operational life time up to 20 years (100,000 hours)
- Increase of technical security
- Insensitive to environmental conditions
- Compact lightweight design
- Protection class IP65
- Different standard light colors available
- Low servicing and maintenance expenditures
- Adjustable beam angle

MERTRONIC® Outdoor light LUX-PLUS series

Outdoor Lighting System Lux-Plus 9

MERKUR® Lux-Plus 9 is composed of 9 single low power LED modules. Every module has a standard output of 5.6 Watt and is a self-contained waterproof unit (IP65). The Lux-Plus output is pre-determined by the number of modules in use. Every module, its driver or transformer is easily to be replaced. In the case of a SOL 9 the power is about 50.4 Watt. An effortless opening of the lamp housing and a replacement of modules is possible. This attribute reduces in a significant way servicing, storage and maintenance costs. The driver can be integrated in the head of the lamp or within the pole accessible for a better maintenance.

The modules of Lux-Plus have easy to maintain self-cleaning optics. Due to a durable memory effect the optics are very durable and resistant.

The special optics of Lux-Plus focuses and intensifies the emitted light. All light is only concentrated on the defined area, thus all norms concerning light pollution are complied with. This additional property of the optics significantly reduces the heat development. A use of the technology without any implementation of heat sinkers or cooling devices is made possible. Due to the low operating temperature the module replacement is possible even during operation and life expectancy of the lighting modules exceeds 50,000h.

Lux-Plus 9 products are dust proof, humidity, vibration and UV resistant.



MERTRONIC® Outdoor light LUX-PLUS series

Form factors (Standard form in stainless steel)

Lux-Plus 9



Best suited for:

- Wide streets
- Parking places
- Crossroads
- Commercial areas
- Buildings

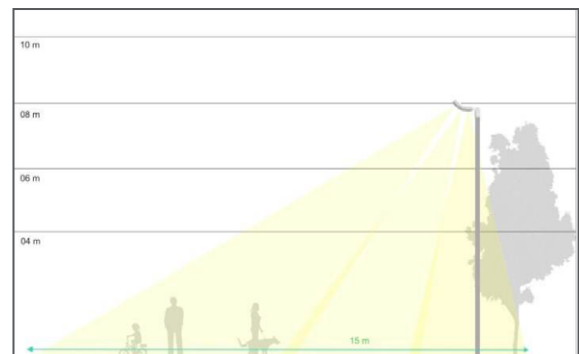
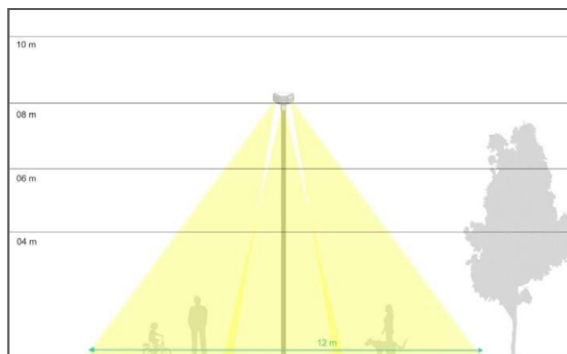
Lux-Plus 9-W



Best suited for:

- Streets
- Parking places
- Crossroads
- Commercial areas
- Buildings

Lux-Plus 9 and Lux-Plus 9-W are optimized for street applications.



MERTRONIC® Outdoor light LUX-PLUS series



Facts and Figures Lux-Plus 9

ELECTRICAL

Lamp type	9 modules with 5.6 Watt at 24 V
Electronic ballast	Electronically integrated into the lamp housing or mast
Input Voltage	100 V – 240 V / 50 – 60 Hz
Protection class	SK II, IP65 (Module)
System power	Standard: 50.4 W / 250 mA
Power Factor	≥ 0.90
Overvoltage resistance	6 kV
Current capacity	2.5 kA
Option	Dimmable or adjustable power
Cabling	Installed with connecting cables

LIGHTING

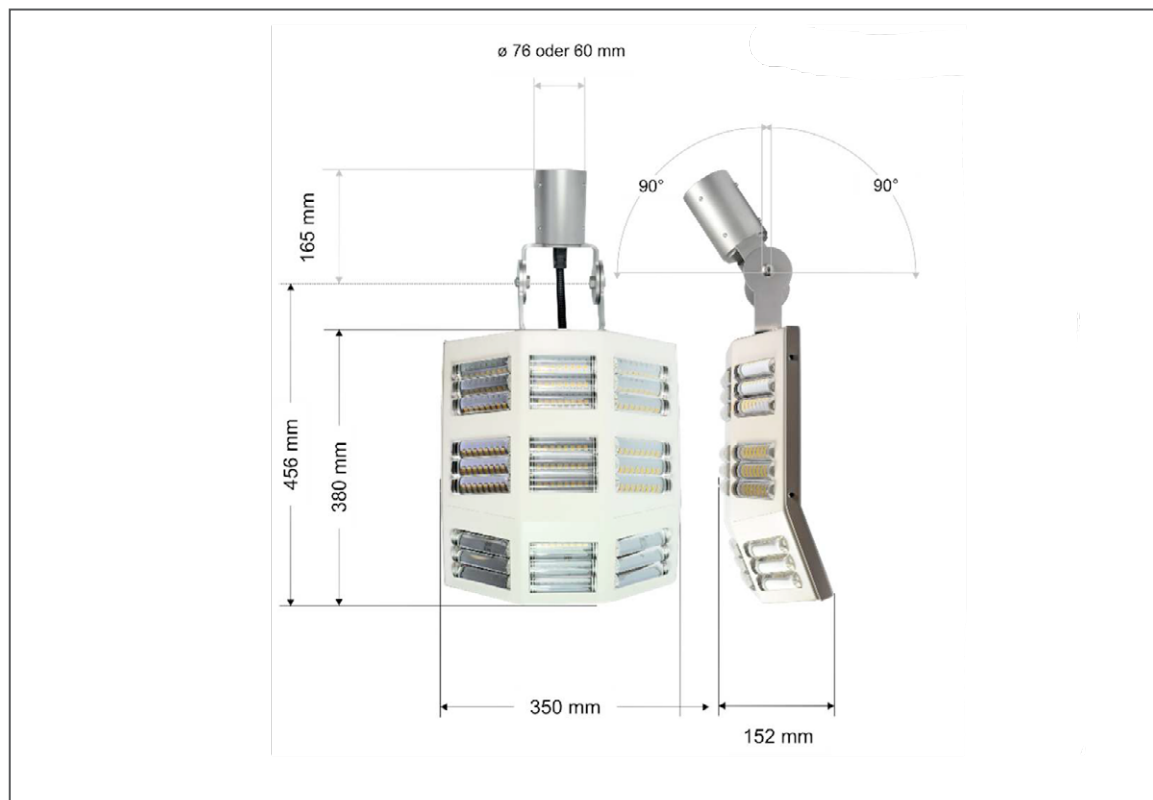
System luminous flux	> 6,200 lm
Lumen depreciation	> 80 % remaining lumen after more than 50,000 hours
Color temperature	<ul style="list-style-type: none">■ 3,000 K warm white +/- 300 K■ 4,000 K neutral white +/- 300 K■ 5,000 K cool white +/- 300 K■ Other temperatures on demand
Optics	LED optic bundles, focuses and amplifies light

MERTRONIC® Outdoor light LUX-PLUS series

Additional Data Lux-Plus 9

Dimensions	(L x W x H) 380 x 350 x 152 mm
Angle	LED 120°, Optics 90°
Weight	4.1 kg
Materials	Housing trough and base made of stainless steel, powder coated in RAL 7024 (anthracite), other colors on demand
Mast connection	60 mm or 76 mm tilt adjustable from -90° to +90°
Fixing	6 mm grub screws
Ambient temperature	from -30 °C up to +55 °C
Impact resistance	IK04, optionally IK06 and IK08
Spare parts availability (SOL-Module)	15 years

Dimensions and connection dimensions of Lux-Plus 9

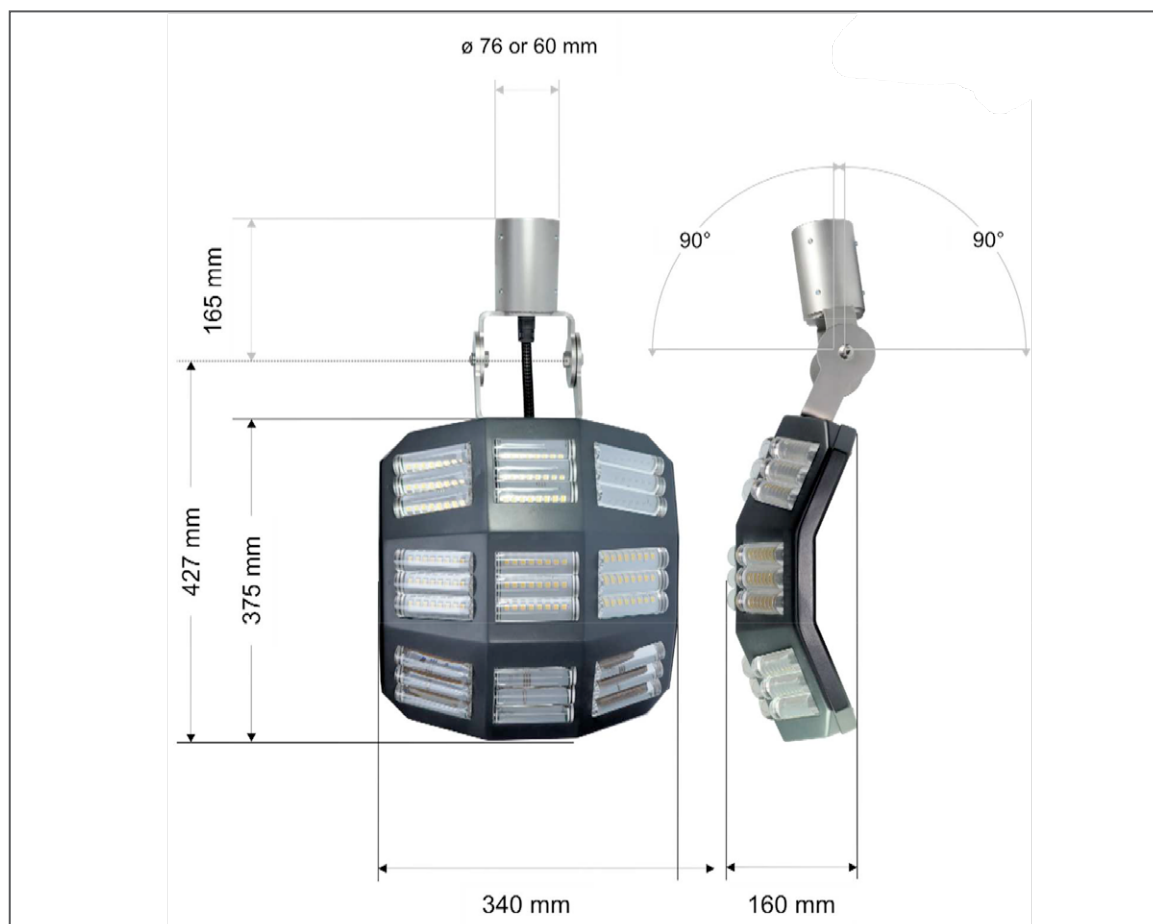


MERTRONIC® Outdoor light LUX-PLUS series

Additional Data Lux-Plus 9-W

Dimensions	(L x W x H) 375 x 340 x 160 mm
Angle	LED 120°, Optics 90°
Weight	4.1 kg
Materials	Housing trough and base made of stainless steel, powder coated in RAL 7024 (anthracite), other colors on demand
Mast connection	60 mm or 76 mm tilt adjustable from -90° to +90°
Fixing	6 mm grub screws
Ambient temperature	from -30 °C up to +55 °C
Impact resistance	IK04, optionally IK06 and IK08
Spare parts availability (SOL-Module)	15 years

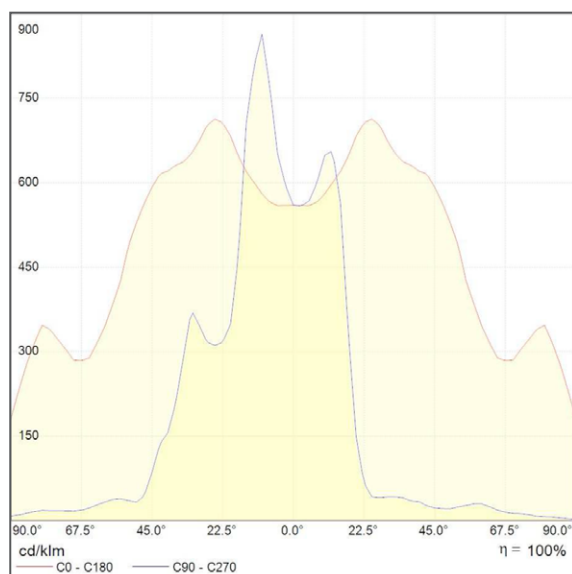
Dimensions and connection dimensions



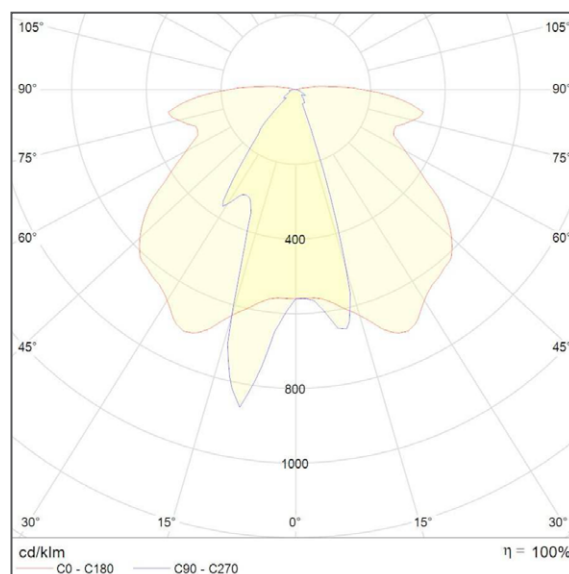
MERTRONIC® Outdoor light LUX-PLUS series

Photometry Lux-Plus 9-W

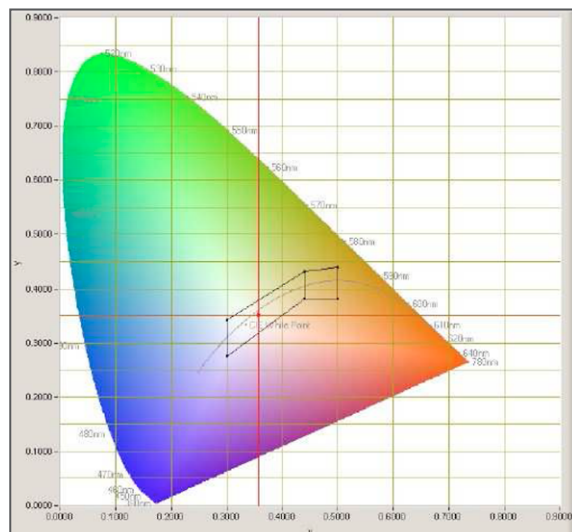
Cartesian diagram



Polar curve



Spectrum



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MERTRONIC®
Infinite LED Solar Street Lights



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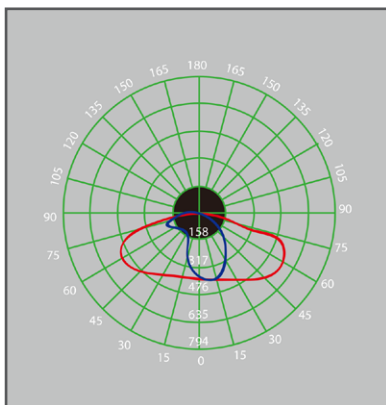
Infinite LED Solar Street Lights

MERTRONIC® Infinite LED Solar Street Lights

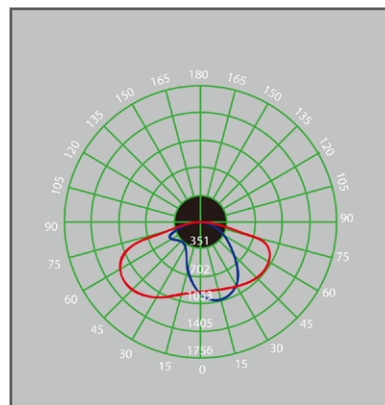
- MERKUR® FISOL® Technology
- All- in one design, aluminum alloy die-casting housing
- Long lifespan of grade A power LiFePO4 battery pack
- High efficiency 20% conversion mono crystalline solar panel
- Adjustable angle light module, efficiency 200LM/W
- High efficiency MPPT controller
- Microwave sensor, remote control by one-key dimming, automatically turning on at night and turning off upon daylight.
- Various mounting options
- Ambient temperature: -20 C° to 50 C°
- Dimming and deep discharge protection function



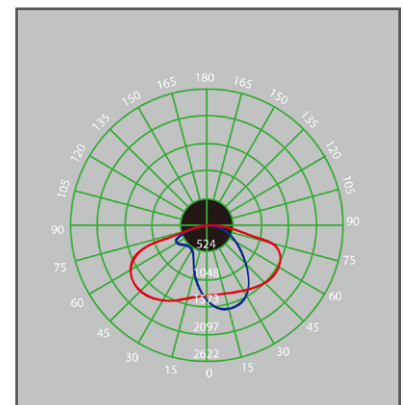
Infinite 8 W



Infinite 20 W

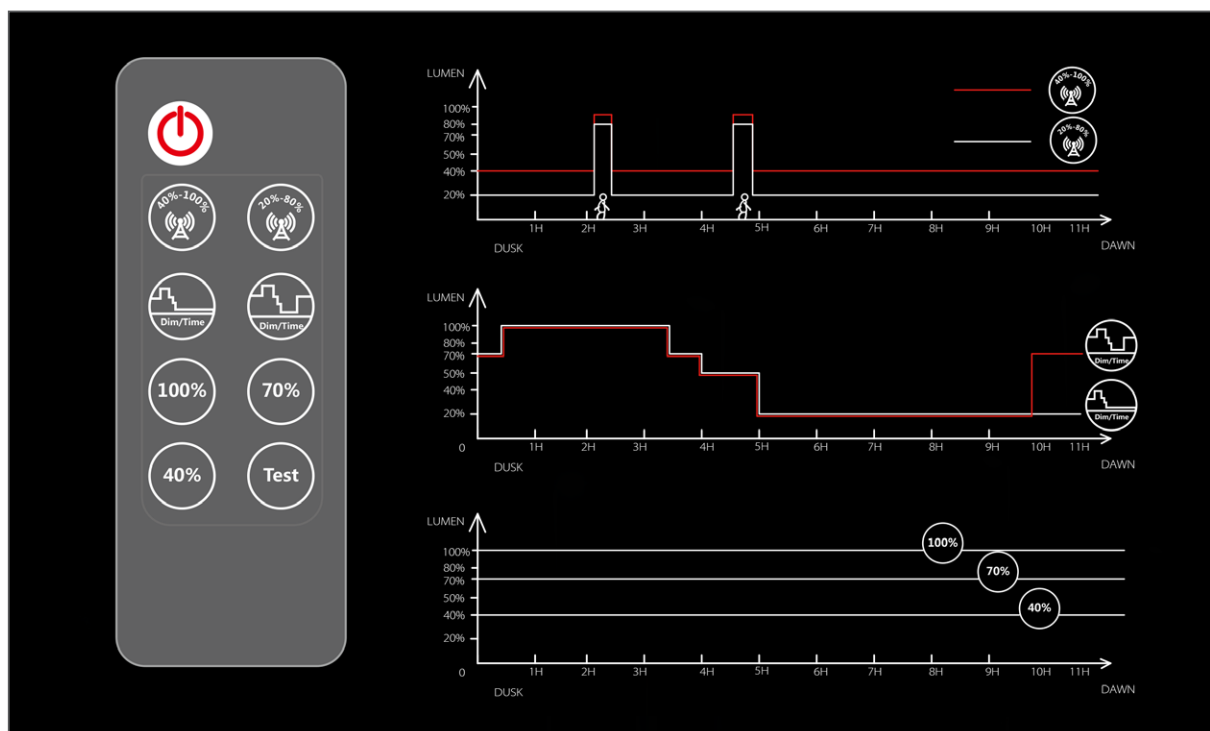


Infinite 30 W



Infinite LED Solar Street Lights

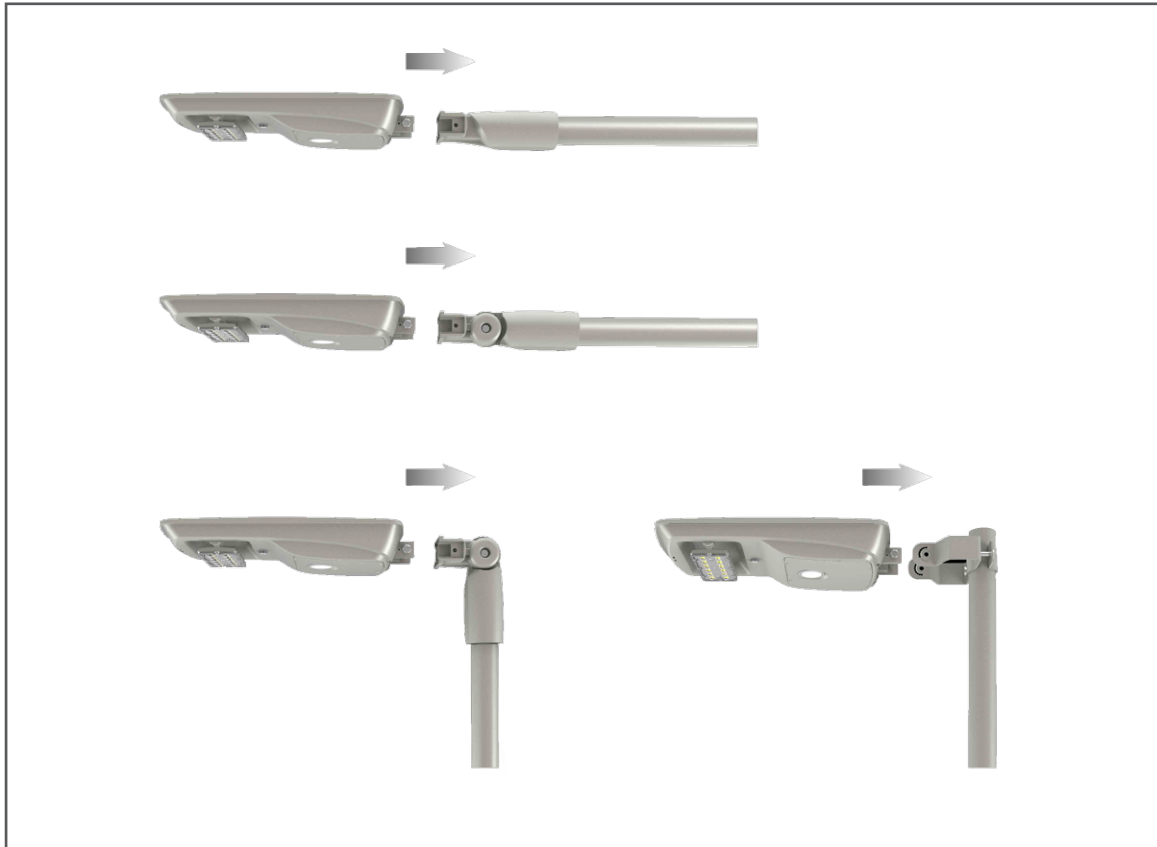
Matchcode Productcode	Dimension L/W/H mm	Watt Lumen	LED	Solar Panel	Battery	Charging Time	Full Power Op. h 100 %	Maximum Duration	Operation Mode	Weight	Installation High
MT-SLED-08W-12V-17W-UTM 1034 0101 1011 4652 2723	520/ 290/ 80	8W 1600lm	PHILIPS 5050 215lm/w CRI>70	17 W Mono crystalline solar panel	LiFePO4 Battery 12.8 V 9 AH	7 hrs	12 hrs	50 hrs	Remote control with one-key setting	5.3 kg	2 - 4 m
MT-SLED-20W-12V-36W-UTM 1034 0303 1031 4652 2723	660/ 420/ 94	20W 4000lm	PHILIPS 5050 215lm/w CRI>70	36 W Mono crystalline solar panel	LiFePO4 Battery 12.8V 20AH	7 hrs	12 hrs	50 hrs	Remote control with one-key setting	9.7 kg	3 - 5 m
MT-SLED-30W-12V-52W-UTM 1034 0405 1031 4652 2723	900/ 420/ 94	30W 6000lm	PHILIPS 5050 215lm/w CRI>70	52 W Mono crystalline solar panel	LiFePO4 Battery 12.8 V 30 AH	7 hrs	12 hrs	50 hrs	Remote control with one-key setting	13.5 kg	3 - 6 m



Select the right operating mode according to the local legislation needs and the local sunshine conditions.

Infinite LED Solar Street Lights

Mounting options



Packaging Information

Light	Master Carton Size	Q'TY/CTN	GW kg	Cubicmeter m³
8 W	665/350/160	1	6.14	0.038
20 W	825/490/165	1	6.2	0.067
30 W	1070/490/165	1	6.2	0.087

MERTRONIC® Street light
Neptune Lighting Series



Neptune Lighting Series



MERTRONIC Street Light Neptune Lighting Series

LED high-performance street lights with wide beam light distribution.

- Street lights made of aluminium alloy, Aluminium and stainless steel.
- Clear 5mm safety glass
- Silicon rubber gasket
- Swivel range with bracket 0° - 80° Mounting bracket made of steel & alumin. with electrostatic powder coating.
- Lens angle asymmetric
- Colour standard MT-X6-23
- optional RAL codes.
- LED power supply unit
- Input 100 – 305V AC 50 / 60 Hz

- Power factor > 90% full load
- Standard 6kV surge protection
- 10kV surge protection (optional)
- DALI controllable (optional)
- 0-10V / 1-10V controllable (optional) Safety class I
- Protection class IP66
- Impact strength IK08
- Operation temperature -25 °C / +55 °C Wind catching area: 0,32m²
- Weight: 11,34 kg
- EULUMDAT files available
- Complies with European standards
- EN 60598 and CE certificate
- Montage Bracket in 20° / 40° / 60° / 80

Standard colour temperature 4000 K.
Also available with 3000K on request.



Neptune Lighting Serie

Main Data

Module connected wattage	80 W
Luminaire connected wattage	100 Wh
Rated temperature	$t^{\circ} = 25^{\circ}\text{C}$
Ambient temperatur	$t^{\circ}\text{ max} = 35^{\circ}\text{C}$
If the power is reduced, the max ambient temperature will increase	min 55°C
NW	
Colour temperature	4000 K
Colour rendering index Luminaire luminous efficiency	Ra >80
Module luminous flux	14000 lm
Luminaire luminous flux	10710 lm
Luminaire luminous efficiency	119 lm/w
NVW	
Colour temperature	3000 K
Colour rendering index Luminaire luminous efficiency	Ra >80
Module luminous flux	13800 lm
Luminaire luminous flux	10350 lm
Luminaire luminous efficiency	115 lm/w



MERTRONIC® LED Solar Street Light
Independent Series



MERTRONIC Independent Series

The FISOL Concept

MERTRONIC® FISOL Fully Integrated Solar Outdoor Luminaires are designed to meet the highest aesthetical and technical standards.

Integrating highly efficient solar modules, lithium batteries of extreme longevity and heat resistance, the luminaires are of unparalleled simplicity in installation and operation.

The units come with PLC (Programmable Logic Controller) built in. The individually adaptable 4 operation modes, which can be programmed in 9 different power settings allow to reach upto 7 days backup time. The units have a revolutionary design with a fully integrated luminaire which needs no wiring for installation.

The entire power supply, control unit and solar panel are directly and fully integrated in the

luminaire itself. Just fix it on the pole, switch it on and the unit will run perfectly and persistently for many years to come.

The luminaires are as per standard warranted for 2 years. Warrantee packages up to 4 years can be put together if needed.

Features

- Highest efficiency solar modules allow aesthetic design
- Batteries of 6-9 years lifetime (also in extreme ambient temperatures +70°C)
- LED life time 12 years
- Upto 36 different light intensity levels are programmable
- Upto 7 days autonomy
- Maintenance free for long periods



FISOL 8146 LED solar street light

FISOL 8146 LED solar street light

MERTRONIC® FISOL 8146 Led solar street light is a fully integrated solar street light with anodized aluminium body, IP67.

Off grid installation, no cabling, no wiring, fully self controlled and operated.

2 years warrantee, extended warrantee packages optional.

Features

- 2 x LED Module with Bridgelux® 45 MIL LED max. 36W
- 18V 75W monocrystalline LEDs
≥ 19 % efficiency
- Lithium batteries of 6-9 years lifetime
- LED life time 12 years
- Luminous flux min 650 lm up to ≥ 4.300 lm
- Upto 7 days autonomy
- Maintenance free for long periods



anodized aluminum case with high power LEDs and easy access to PLC controller



highly efficient monocrystalline cells



ON/Off pushbutton



PLC Display clear and easy to use

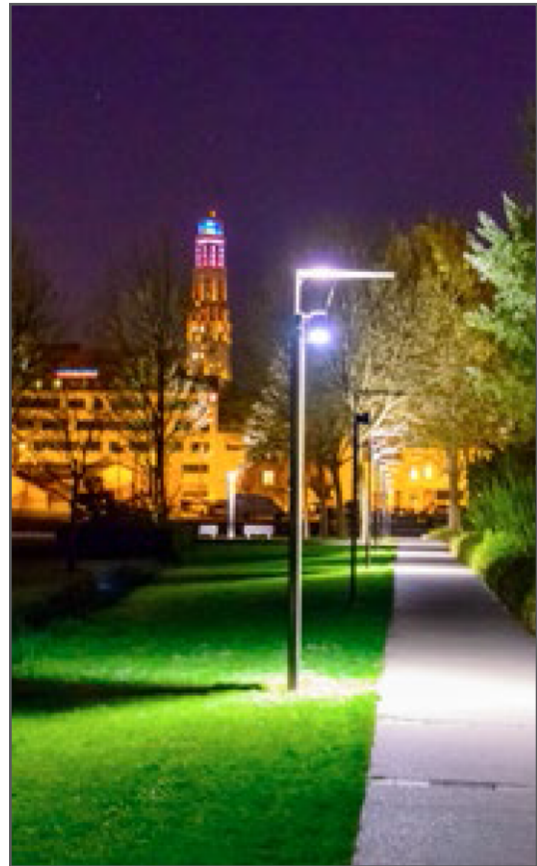
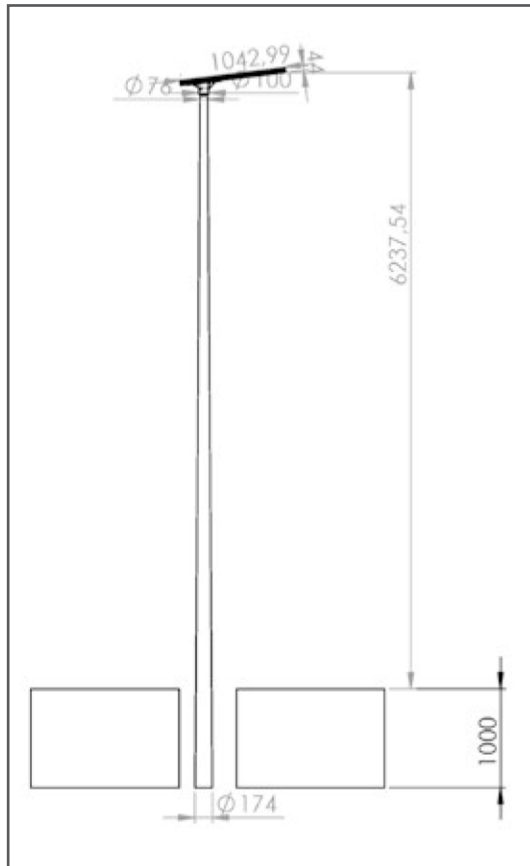
FISOL 8146 LED solar street light

FISOL 8146 LED solar street light

Matchcode	MT-SLED-36W-12V-75WPV-SBH
LED	2 x LED Module with Bridgelux® 45 MIL LED max. 36W
Solarpanel	18V 75W monocrystalline ≥ 19 % efficiency
Energy storage	Lithium Technology
Controller	SPS / PLC programmable via touch button
Charging time	≤ 6h
Dimensions	1.100 x 450 x 42 mm
Weight	13,2 kg
Certification / Protection class	CE / RoHS / * IP67
Luminous flux	up to ≥ 4.300 lm
Beam angle	120°
Color temperature	5000-5500K (default) available from 3000 to 6500K optional
Twilight value (light ON/OFF)	30 lx
Lighting time (in h / fully charged)	max. luminous intensity: ≥ 20 h min. luminous intensity: ≥ 80 h
Operational and environmental parameters	storage: 0 °C ~ 45 °C charging / daytime: -15°C ~ +70 °C discharging / night: -35 / ° C ~ +70 °C
Lighting point height	≤ 8 m
Lighting point distance (pole distance)	≤ 50 m
Diameter for pole mounting spigot (included)	76 mm

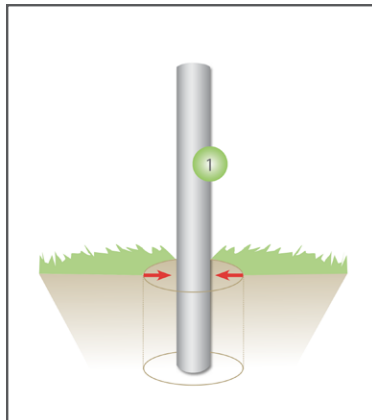


FISOL 8146 LED solar street light

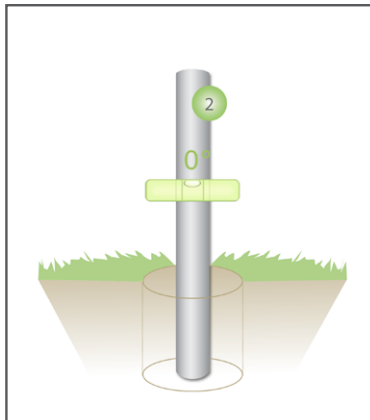


FISOL 8146 LED solar street light

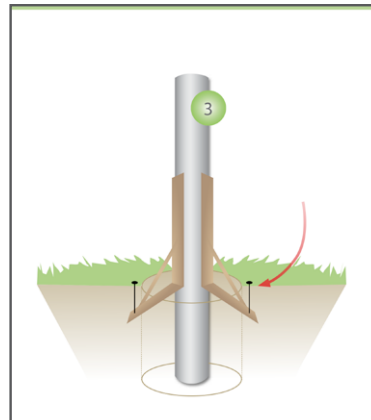
INSTALLATION



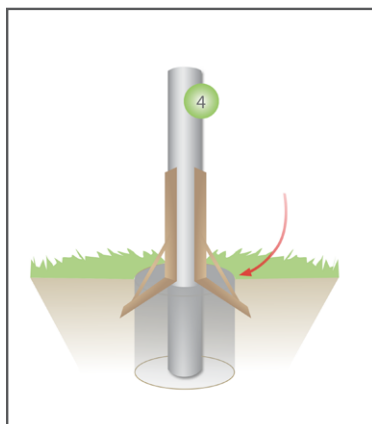
Put the pole in the center of the hole



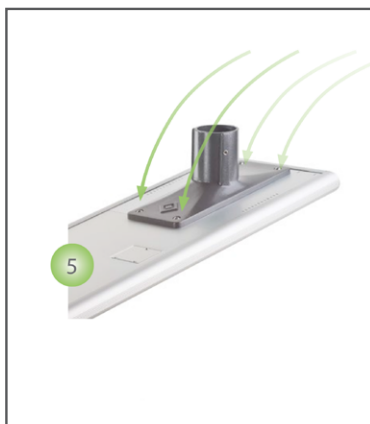
Align the pole that it is in the horizontal



Attach the supports and attach them to the pole



Concrete the pole



Screw on the mountingkit



Put on the solar light and tighten the 3 screws



Turn on the solar light

MERKUR ORION Series
LED street light



MERKUR ORION Series

Concept

The design concept of our Orion series LED street light is hommization & toolfree operation. All the light is based on the Europe outdoor lighting standard DIN13201






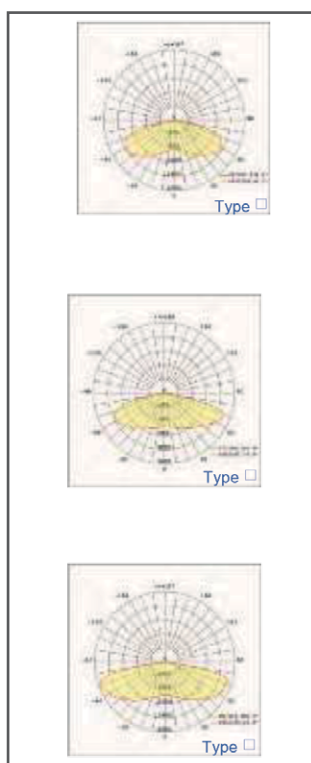
Features

- European Design
- SAMSUNG & CREE LED
- DIN 13021 Design Standard
- Class II & 0-10V Dim PSU
- Sure Arrsestor: 10kv
- IK08, IP66
- Photocell optional
- Intelligent Control System Option
- Vertical and horizontal installation



MERKUR ORION Series 100 lm/w

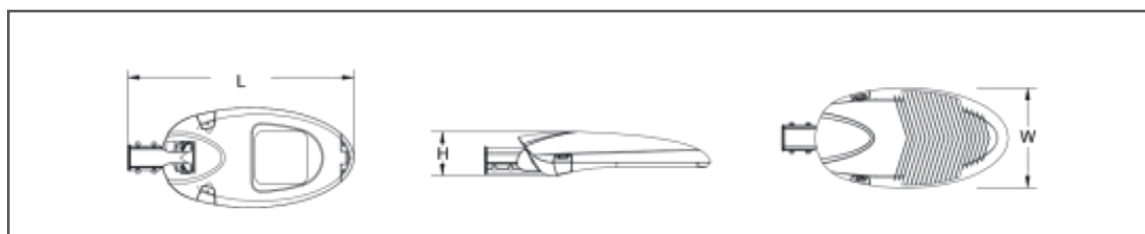
	Matchcode	Power/W	Luminous Flux	Net weight	Packing
	ME-Orion-M-35-L18CR	35	3500 LM	4.4 kg	745 x 350 x 190 mm
	ME-Orion-M-60-L36CR	60	6000 LM	4.6 kg	745 x 350 x 190 mm
	ME-Orion-MS-90-L40CR	90	9000 LM	9.0 kg	745 x 350 x 190 mm
	ME-Orion-MS-120-L54CR	120	12000 LM	9.5 kg	745 x 350 x 190 mm
	ME-Orion-MS-150-L66CR	150	15000 LM	12.0 kg	1000 x 450 x 280 mm
	ME-Orion-BO-200-L90CR	200	20000 LM	12.5 kg	1000 x 450 x 280 mm
	ME-Orion-BO-240-L108CR	240	24000 LM	13.0 kg	1000 x 450 x 280 mm





Light Distribution Parameters

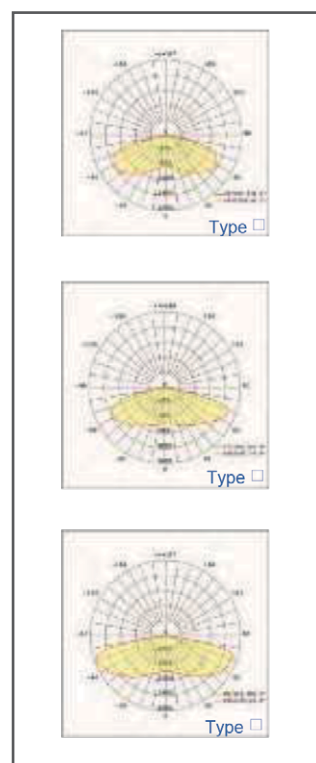
- Input Voltage AC 100-277V / 200-240V
- Frequency 50/60Hz
- Power Factor 0.95
- LED SAMSUNG/CREE
- Lamp Efficiency 100LM/W
- Color Temperature 4000K/5000K
- Color Rendering Index Ra > 70
- Beam Angle 145° X 85°
- Material AL+PMMA+GLASS
- Operating Temperature -40°C~45°C
- Operating Humidity 10~90% RH
- IP Rating IP 66
- Lifespan 50000h

	35w / 60w / 90w / 120w	150w / 200w / 240w
L	690 mm	829 mm
W	305 mm	385 mm
H	135 mm	172 mm



MERKUR ORION Series 110 lm/w

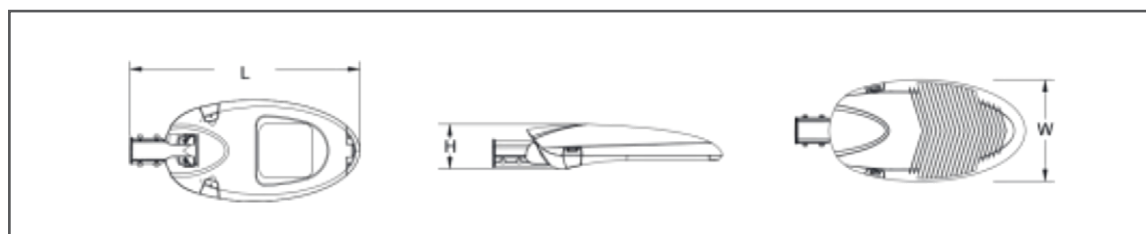
	Matchcode	Power/W	Luminous Flux	Net weight	Packing
	ME-Orion-M-35-L30CR	35	3850 LM	4.4 kg	745 x 350 x 190 mm
	ME-Orion-M-60-L52CR	60	6600 LM	4.6 kg	745 x 350 x 190 mm
	ME-Orion-MS-90-L54CR	90	9900 LM	9.0 kg	745 x 350 x 190 mm
	ME-Orion-MS-120-L72CR	110	12100 LM	9.5 kg	745 x 350 x 190 mm



Light Distribution Parameters

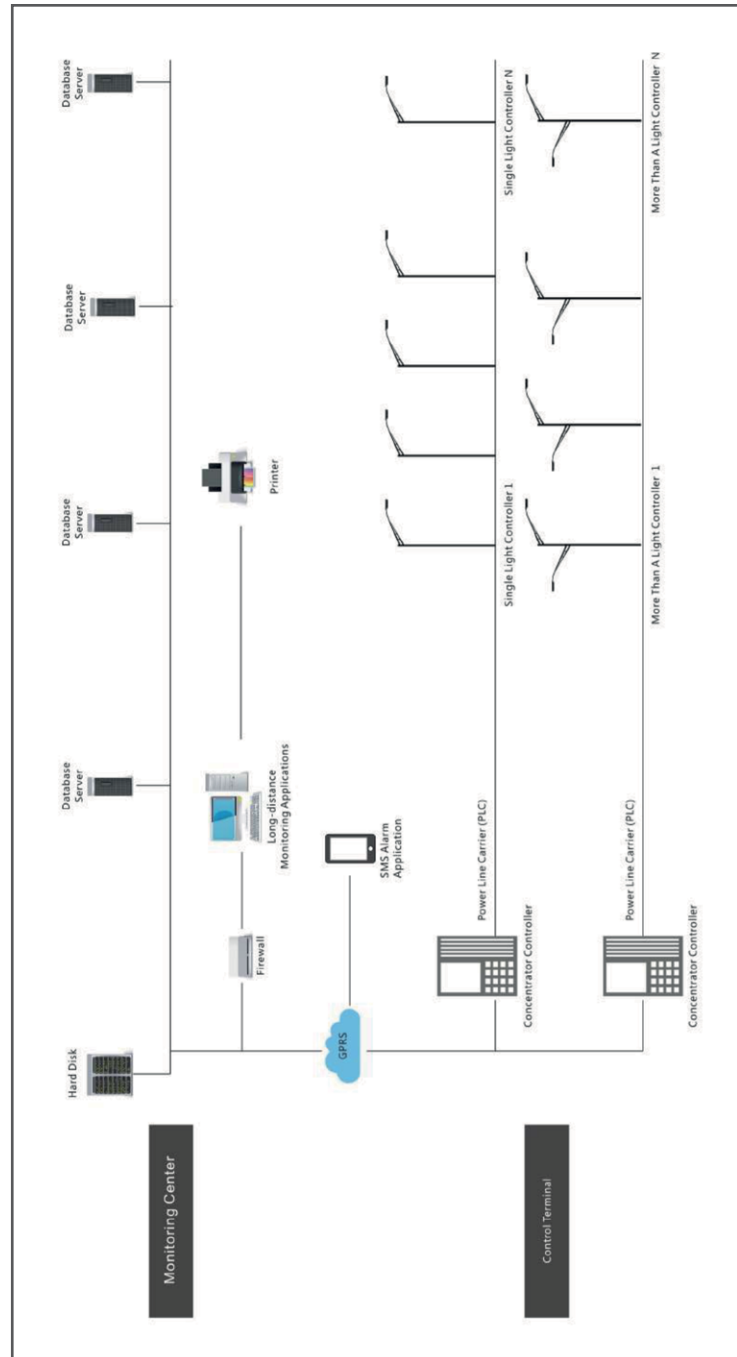
- Input Voltage AC 100-277V / 200-240V
- Frequency 50/60Hz
- Power Factor 0.95
- LED SAMSUNG/CREE
- Lamp Efficiency 110LM/W
- Color Temperature 4000K/5000K
- Color Rendering Index Ra > 70
- Beam Angle 145° X 85°
- Material AL+PMMA+GLASS
- Operating Temperature -40 °C~45 °C
- Operating Humidity 10~90% RH
- IP Rating IP 66
- Lifespan 50000h

	35w / 60w / 90w / 120w	150w / 200w / 220w
L	690 mm	829 mm
W	305 mm	385 mm
H	135 mm	172 mm



MERKUR ORION Series

Intelligent Control System Concept for Street light



MERKUR ORION Series



Orion solar light project in Austria

MERTRONIC®
LIGHTING

MERTRONIC®
AURA LED Street Light Series



MERKUR®
GERMAN TECHNOLOGY

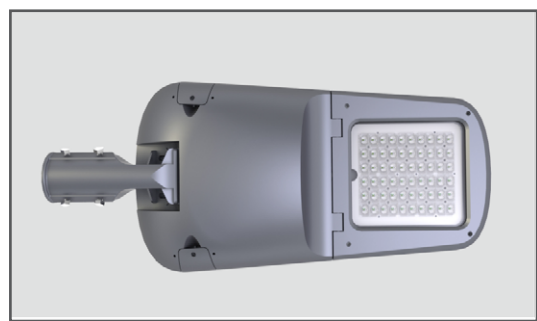
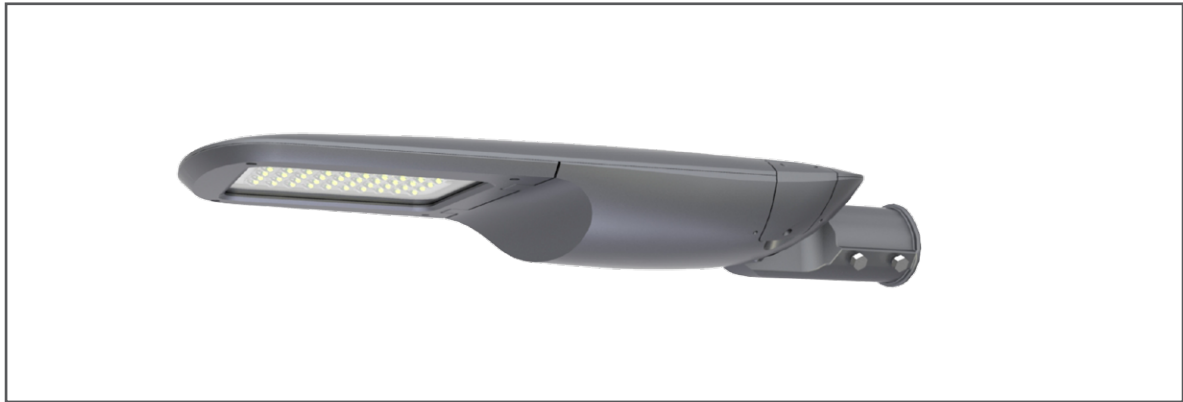
MERKUR AURA Series

Concept

The design concept of our Aura series LED street light is hommization & toolfree operation. All the light is based on the Europe outdoor lighting standard DIN13201

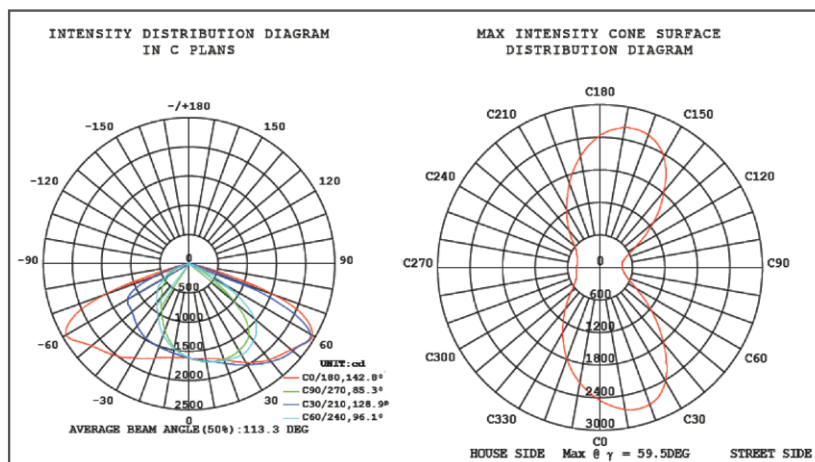
Features

- SAMSUNG, CREE, Philips, Osram LED OPTION
- Tooling free version & Standard version
- IK08, Ip66
- CLASSI & CLASSII
- Smart control system compliance photocell, zigbee, PLC
- 0-90 angle adjustable



MERKUR AURA Series

Article	ME-AU-MI-60-240-L68SM	ME-AU-MI-60-240-L68SM	ME-AU-MD-120-240-L120SM
LED Model	LED Model Samsung LH351B/Cree XPG2		
Input Voltage/Frequency	AC100-240V 50/60Hz		
Power Factor(PF)	≥0.95		
Rated Power	60 W	90 W	120 W
LED Quantity	68 pcs	92 pcs	120 pcs
Luminous Efficiency	130 lm / W	130 lm / W	130 lm / W
Luminous Flux	7800 lm	11700 lm	15600 lm
Color Temperature	3000/4000/5000/5700±300K		
Color Rendering Index	RA≥70		
Light Distribution	Type II short		
Average Beam Angle	C0/180°: 148.5°, C90/270°: 95.2°		
Operating Temperature	- 40° ~ 45° C		
Operating Humidity	10 % ~ 90 % RH		
Storage Temperature	-20° ~ 40° C		
Lifespan	50,000 Hrs		
Shell Material	Aluminum+PC		
IP Rating	IP 66		
IK Rating	IK 08		
Pole Diameter	60 mm		
Installation Height	6 - 8	8 - 10	8 - 10
Color Temperature	8 - 10	8 - 10	8 - 10
Max Projected Area	0,17 ³	0,17 ³	0,17 ³
Elevation Range	- 10° - +10°	- 10° - +10°	- 10° - +10°
Dimension	697×307×108mm	697×307×120mm	697×307×120mm
Packing	770×395×190mm	770×395×190mm	770×395×190mm
Net Weight	6.8 ± 0.2 Kg	7.3 ± 0.2 Kg	7.3 ± 0.2 Kg
Gross Weight	8.0 ± 0.2 Kg	8.5 ± 0.2 Kg	8.5 ± 0.2 Kg



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