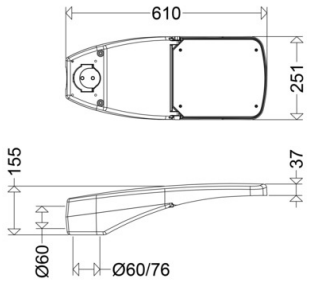
LED outdoor light fitting

CAMINO
48 2402 CL
[Item no. : 48001 0059]



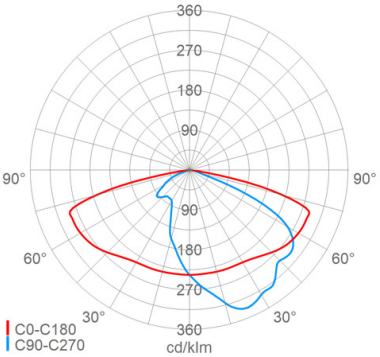
General product description

LED outdoor light fitting consisting of powder-coated die-cast aluminium housing, two-part. Upper part with ECG, LED modules, optics and frameless tempered safety glass pane, hinged and detachable from the lower part. Lower part with integrated pole mounting system, adjustable inclination, cable entry, strain relief and integrated pressure compensation system (dirt-resistant). Electro kit carrying all electrical components, completely removable by unplugging isolating plug connection. Zhaga LED modules with highly efficient optics, direct beam, Multi-Layer Technology. ECG with high surge protection, overload and short circuit protection. Universal die-cast aluminium pole mounting system for pole top Ø 60 /76 mm and pole base Ø 60 mm or Ø 42 mm with separate reducing accessories.



General product benefits

- long-lasting, corrosion-resistant die-cast aluminium housing with smooth surface without cooling fins
- perfect thermal management due to direct connection of the LED modules to the housing
- integrated pressure compensation system prevents condensation inside the light fitting
- tiltable universal pole mounting system for pole-top and side-entry mounting, no tools required
- no additional mounting adapters required
- removable upper part of the housing allows comfortable, time- and cost-saving mounting in 2 steps: 1.: Mount lower part on the pole and connect the mains - 2.: Hinge upper part, connect isolating plug and shut the housing. READY
- adjustable inclination of the light fitting, no tools required
- upgrades in regard to technical development by easy change of the upper part. After replacement of the LED modules, the upper part can be used again
- homogenous illumination due to Multi-Layer Technology
- no light emission into the upper half space. ULOR=0
- versions dimmable to 10% and with color temperature up to 3,000 K comply with Dark Sky requirements
- interchangeable components
- future proof by using standardised Zhaga LED modules



Applications

- residential streets, main and by-roads, roundabouts, walkways and cycle lanes, traffic-calmed zones, streets on factory sites, parking areas, car parks, gateways etc.

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Technical data

General

EAN/GTIN:	4041254297798

Key technical data

Light source:	LED
LED module standard:	Zhaga
Exchangeability:	light source and control gear replaceable by qualified person
Connected load:	33 W
Luminaire luminous flux:	5000 lm
Luminous efficacy:	152 lm/W
Colour temperature:	4000 K
Colour rendering (CRI):	≥ 70
Light colour:	740
Admissible ambient temperature T_a:	-40 °C to +40 °C
Control gear:	1 x ECG, Overload protection, Short circuit protection
Energy efficiency class:	B
Overvoltage protection:	10 kV
I LED max:	500 mA

Lighting control

Constant luminous flux control (CL):	Yes
Connected load (end of life) with CL:	37 W
Averaged connected load with CL:	35 W

Lighting technology

Optical system:	Lens optics
Optical system material:	PMMA
Light distribution:	asymmetrical wide beam
Photobiological safety:	RG1

Service life

Service life LED:	L95>100000 h (@ Ta max)

Electrical connection

Rated voltage:	220 - 240 V, 50/60 Hz
Terminal clamp:	Plug, Screw terminal, 3-polig, 0,75 - 2,5 mm²
Max. no. with circuit breaker B16:	23
CB B10/B13/B20:	15/19/29
CB C10/C13/C16/C20:	23/31/39/47
Cable entries:	blanking plug (1x), Plastic, 9 - 14 mm

Features/Certificates

Protection class:	II
IP rating:	IP66
IK rating:	IK09

Features/Certificates

Approval marks:	CE, VDE, ENEC

Mounting

Mounting method (accessories possibly needed):	Pole-top mounting, Side-entry mounting, Side-entry mounting Ø 42mm only with reducer Article number: 90306 0004
Operating position:	downwards radiation
Side-entry mounting:	Ø 60mm x 100mm
Pole-top mounting:	Ø 60/76mm
Inclination side-entry:	0 °, -5 °, -10 °, -15 °
Inclination pole-top:	0 °, 5 °, 10 °
Wind-exposed surface:	0.05 m²

Housing

Housing material:	Die-cast aluminium
Varnished:	Yes
Colour:	grey, DB 702

Cover

Cover type / material:	Pane (Safety glass)
Cover characteristic:	clear
Closure:	screwed

Other features

Pressure compensation system:	Yes

Product life cycle

Dismountable at end of life:	Yes
recyclable:	≥ 80 %
Construction modular:	Yes
Spareparts availability > 10 years:	Yes
luminaire is upgradeable:	Yes
Guarantee 5 years:	Yes
Packaging made of 95% recyclet paper:	Yes

Dimension/Weight

Length:	610.00 mm
Width / Diameter:	251.00 mm
Height:	155.00 mm
Net weight:	7.60 kg

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Optional accessories / spare parts

Item no.	Item name	Item description
48002 9000	ABD 48 ESGW	safety glass pane clear
90113 0002	HA 08/L25	Shielding on the house side , plastic (PC) for item name 08... and L25...
90113 0003	HA 16/L50	Shielding on the house side , plastic (PC) for item name 16... and L50...
90113 0004	HA 24/L75	Shielding on the house side , plastic (PC) for item name 24... and L75...
90113 0005	HA 32/L100	Shielding on the house side , plastic (PC) for item name 32... and L100...
90306 0004	RZ 60/42 CAMINO	reducer ø60 -> 42mm
48600 0001	4860	pole arm bracket cast aluminium ø=42mm, L=100mm
48600 0002	4861	pole arm bracket ø=60mm, L=100mm
48600 0003	4862	pole arm bracket cast aluminium ø=42mm, L=250mm
48600 0004	4863	pole arm bracket cast aluminium ø=42mm, L=400mm
48600 0005	4864	pole arm bracket cast aluminium ø=60mm, L=250mm
48700 0002	4871 RAL7035	pole arm bracket ø=60mm, L=100mm
48700 0504	4871 DB703	pole arm bracket ø=60mm, L=100mm
60099 0001	MAU 600/1	pole-top bracket for 1 light fitting ø=42mm (side-entry mounting)
60099 0002	MAU 600/2	pole-top bracket for 2 light fittings (180°) ø=42mm (side-entry mounting)
60099 0003	MAU 600/3	pole-top bracket for 3 light fittings (120°) ø=42mm (side-entry mounting)
60099 0004	MAU 600/4	pole-top bracket for 4 light fittings (90°) ø=42mm (side-entry mounting)
60199 0001	MAU 601/1	pole-top bracket for 1 light fitting ø=60mm
60199 0002	MAU 601/2	pole-top bracket for 2 light fittings ø=60mm
60199 0003	MAU 601/3	pole-top bracket for 3 light fittings ø=60mm
60199 0004	MAU 601/4	pole-top bracket for 4 light fittings ø=60mm
60699 0001	606	reducer ø48 -> 42mm L=400mm
60799 0001	607	reducer ø60 -> 42mm L=230mm
62599 0001	MAU 625/1	pole-top bracket for 1 light fitting ø=60mm
62599 0002	MAU 625/2	pole-top bracket for 2 light fittings ø=60mm
62599 0003	MAU 625/3	pole-top bracket for 3 light fittings ø=60mm
62599 0004	MAU 625/4	pole-top bracket for 4 light fittings ø=60mm