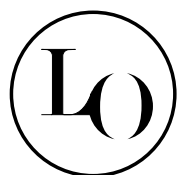


CLOCHE MINI L

design ALESSANDRO STABILE

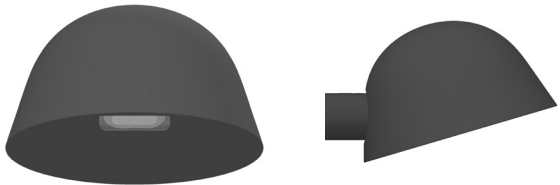


LORELUX

LORELUX - CLOCHE MINIL DATASHEET



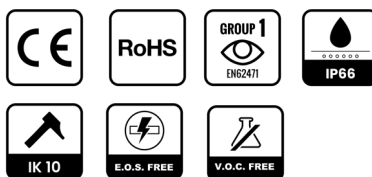
LORELUX - CLOCHE MINI DATASHEET

Concept	Outdoor lamp collection consisting of an oblique lighting head and a side mounting bracket.
Description	Cloche Mini L reinterprets the original lines of the Cloche LED urban lamp, synthesizing them into a new miniature version suitable for lighting pathways and gardens. The downward light emission ensures high visual comfort and excellent luminous efficiency. The lighting body is made of innovative polymeric materials that support urban environmental sustainability and are resistant to corrosion, extreme temperatures (from -60°C to +80°C), and UV discoloration, thanks to the patented Rotoskin® system—a self-cleaning coating that provides a protective shield over all exposed surfaces of the lamp. Cloche Mini L is available in a wide range of finishes and photometric distributions, making it ideal for grouping multiple fixtures to achieve both technical lighting performance and aesthetic appeal.
Materials	Head: polyethylene containing PSV-certified plastic (Plastic Second Life) as specified below: Black: 90% Coloured: 50% Floral: 50% Support frame and heat sink: aluminum
Product's preview	

Pluses

- Lighting body's useful service life of over 50 years
- Immunity to corrosion by atmospheric agents and pollutants
- Resistance to impacts and vandalism
- No flaking or significant discolouration over time
- Interchangeable LED engine for upgrades and/or repairs
- Wide range of finishes from polyethylene
- Wide range of photometric distributions to meet all lighting design requirements

Product's certifications



Material's certifications



Application areas



Mountings

Standard: pole side
Code **KM-CLOCHE-M-L-P60**



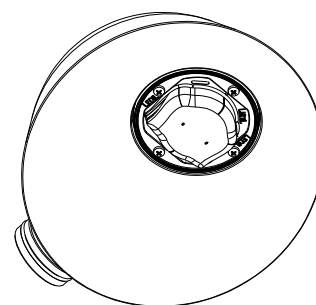
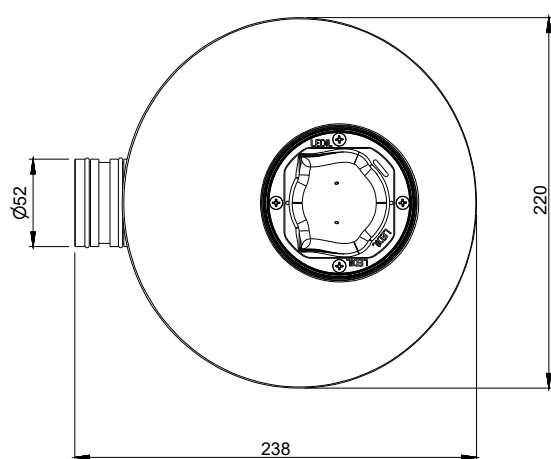
Standard: wall-mounting
Code **KM-CLOCHE-M-LW**



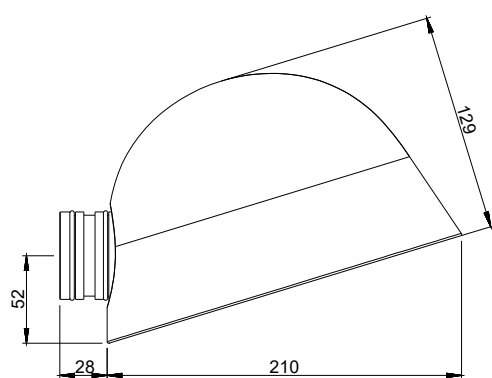
LORELUX - CLOCHE MINIL DATASHEET



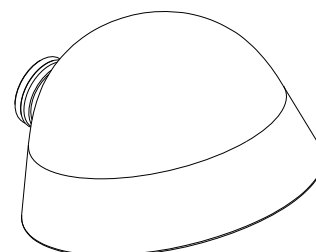
Technical drawing standard model
CLOCHE MINI L



3D VIEW
(scale 1:3)



SIDE VIEW
(scale 1:2)



LORELUX - CLOCHE MINI DATASHEET

MAIN FEATURES

Manufacturer	NITEKO S.R.L.
Brand	LORELUX®
Series	CLOCHE MINI
Device type	LED urban luminaire
Application areas	Urban and residential lighting Historic centres, squares, car parks and green areas Pedestrian areas and cycle lanes
Mounting	Pole side
Mounting accessories	Standard: · Pole side: KM-CLOCHE-M-L-P60 (for Ø60mm pole) · Wall side: KM-CLOCHE-M-LW Optional: · Pole side: KM-CLOCHE-M-L-P89 (for Ø89mm pole)
Product's protection rating	External agents: IP66 Mechanical impacts: IK10 Chemical: VOC Free Electrical: EOS Free SPD: MC ≤ 10kV ; MD ≤ 10kV ; I ≤ 10Ka
Material's protection rating: head	UV: 15 (15.000 h) Flame: HB Discolouration: max CMC 3 colour deviation for 3.000 h according to ISO 4892-2 B1 cycle
Temperature	Operating: -40°C ÷ +45°C (Control via N.T.C.) Storage: -40°C ÷ +80°C
Energy rating	>A++
Warranty	Body: 20 years Light source: 5 years
Certifications	Product: CE; RoHS; EOS free; VOC free; IEC/EN 62262 Material: UL94; ISO 4892-2; PSV (Plastic Second Life)
Optical compartment / Electric compartment	Separated Opening of the compartments after removal of the anti-fall fixing screws

LORELUX - CLOCHE MINIL DATASHEET

OPTICAL FEATURES

Light source	HI Power LED
LED modules	CoB
Optics	Independent and replaceable
Nominal luminous flux	1.515 lm ÷ 1.792 lm
Light source efficiency	· $\eta_{LED} > 165 \text{ lm/W}$ (CCT > 3.000 K / CRI > 80)
Colour temperature	Standard CCT: 3.000K Optional CCT: 2.700K; 4.000K; 5.000K Colour stability: 3 Step MacAdam
Colour rendering index	Standard CRI: 80 Optional CRI: 90
Photometries	Asymmetric; rotosymmetric
Optical performance	Standard: $\eta_{OPT} : 87 \div 90 \%$
Lighting fixture efficiency	$\eta_{FIX} > 125 \text{ lm/W}$ (CCT > 3.000 K / CRI > 80)
Light intensity class	$\geq G*2$
Glare index	$\geq D.4$
ULR / ULOR	0,00%
Service life	L90 B10: > 100.000 h (TJ = 25 ° C IF ≤ 500mA)

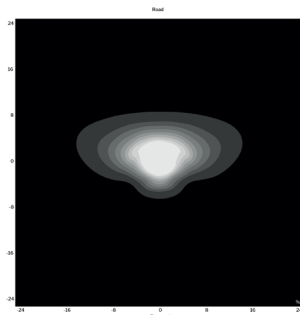
LORELUX - CLOCHE MINI DATASHEET

CONFIGURATIONS

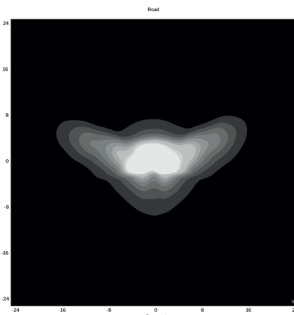
Model	Power [W]	CRI	Nominal luminous flux [lm]		
			2.700K	3.000K	4.000K 5.000K
CLOCHE M-L	12	80	1.647	1.698	1.792
CLOCHE M-L	12	90	1.515	1.562	1.650

PHOTOMETRIES

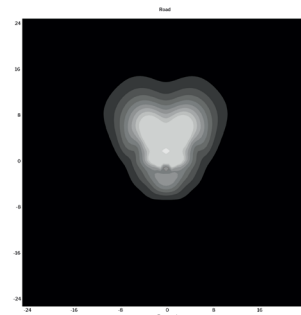
Asymmetric



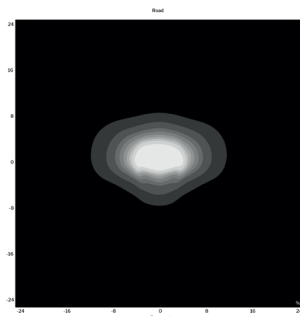
Code A1 ($\eta = 87\%$)



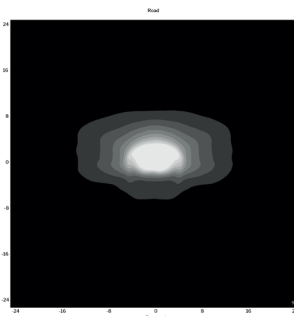
Code A2 ($\eta = 87\%$)



Code A3 ($\eta = 88\%$)

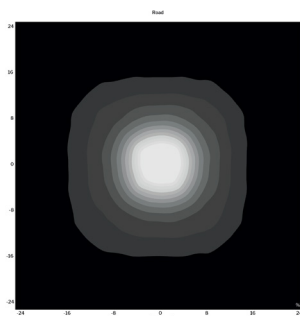


Code A4 ($\eta = 89\%$)



Code A5 ($\eta = 88\%$)

Rotosymmetric



Codice R1 ($\eta = 90\%$)

LORELUX - CLOCHE MINIL DATASHEET

ELECTRICAL FEATURES

Power supply	Standard 240V AC : 110 ÷ 277 V AC; 50 / 60 Hz
LED power current	$I_f \leq 500 \text{ mA}$
Insulation class	Standard: class II Optional: class I
Power	12W
Power factor	PF > 0,97 (Active PFC)
Electrical efficiency	$\eta_{EL} : 83 \div 92 \%$
Electrical protection	Integrated S.P.D.: MC $\leq 10 \text{ kV}$; MD $\leq 10 \text{ kV}$; I $\leq 10\text{kA}$

CONTROL FEATURES

Control cable dimming	K-CLOCHE-M-DALI2.0: DALI 2.0 digital control
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LORELUX - CLOCHE MINIL DATASHEET

MECHANICAL FEATURES

Materials	Head: : UV stabilised polyethylene, self-cleaning, anti-discolouration, minimum thickness 3mm Side accessory: powder-coated aluminum (polyester finish) Heat sink: aluminium LED modules: aluminium Optics: silicone Gaskets: closed-cell silicone Screws: stainless steel Packaging: FSC cardboard
Recycled plastic content	Black: 90% Coloured: 50% Floral: 50%
Service life	Body: >20 years Components: >5 years
Dimensions and weight	Side-mounted model: Ø 220 x h129 mm 0,9 kg

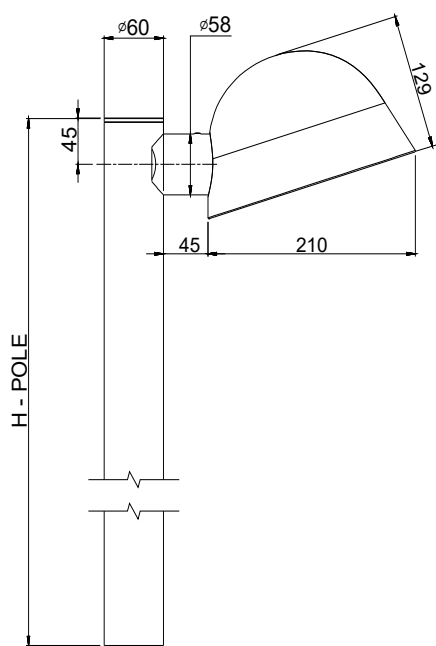
Tolerance: luminous flux +/-5%; power consumption +/- 5%; dimensions +/-1%; weight +/-3%

LORELUX - CLOCHE MINI DATASHEET

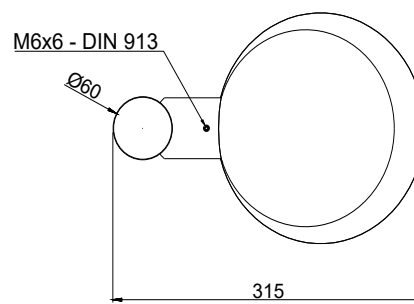
MOUNTING DIAGRAMS AND ACCESSORIES

Model: CLOCHE MINI L

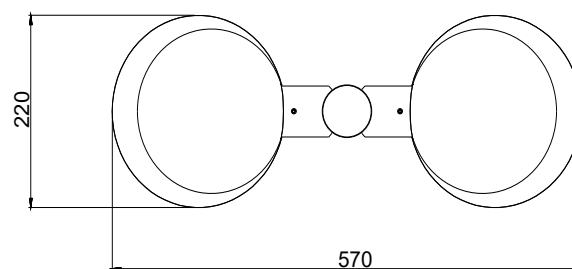
Code: KM-CLOCHE-M-L-P60 (for Ø60 mm pole)



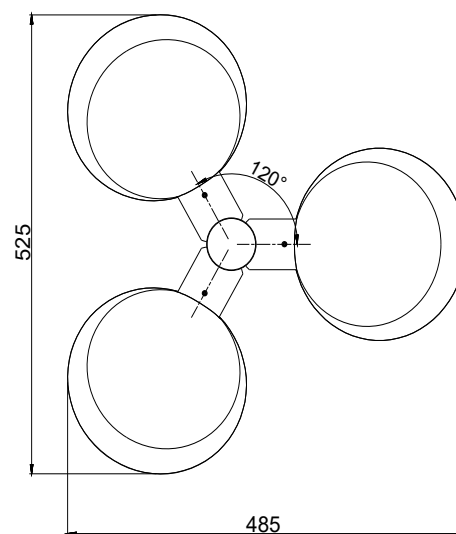
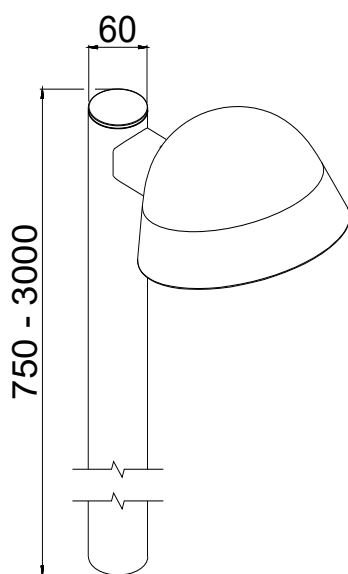
SIDE VIEW
(scale 1:5)



SINGLE HEAD CONFIGURATION
TOP VIEW
(scale 1:5)



DOUBLE HEAD CONFIGURATION
TOP VIEW
(scale 1:5)

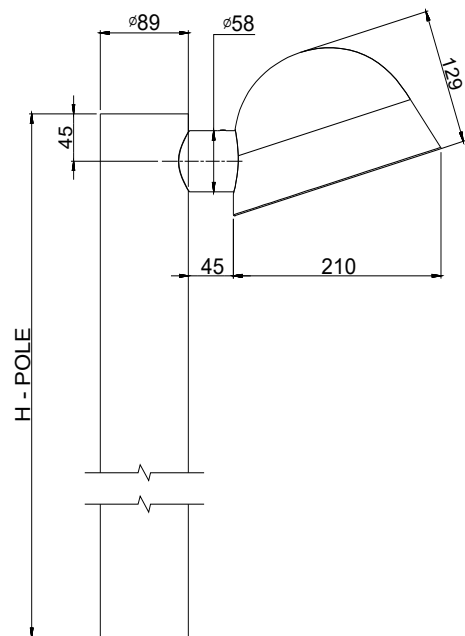


TRIPLE HEAD CONFIGURATION
TOP VIEW
(scale 1:5)

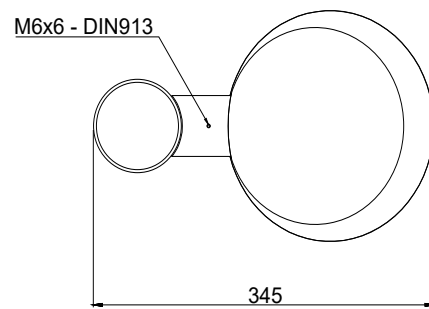
LORELUX - CLOCHE MINI L DATASHEET

MOUNTING DIAGRAMS AND ACCESSORIES

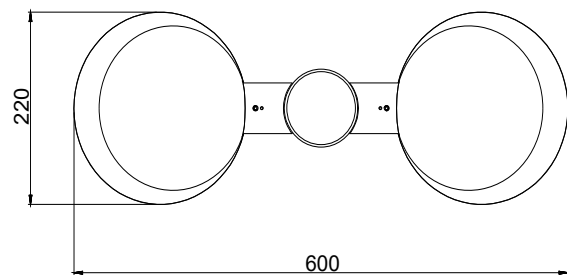
Model: CLOCHE MINI L
Code: KM-CLOCHE-M-L-P89 (for Ø89 mm pole)



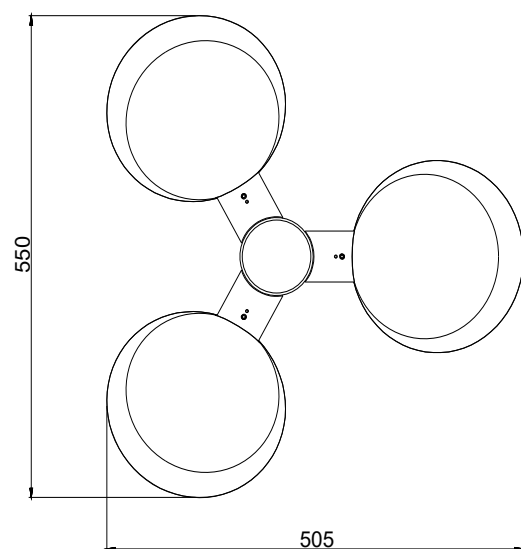
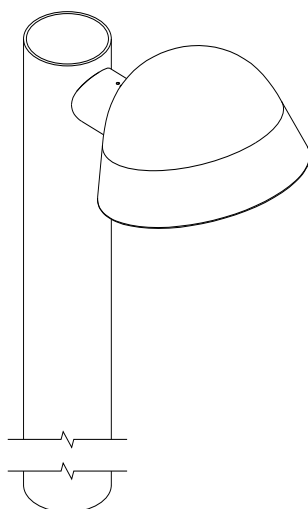
SIDE VIEW
(scale 1:5)



SINGLE HEAD CONFIGURATION
TOP VIEW
(scale 1:5)



DOUBLE HEAD CONFIGURATION
TOP VIEW
(scale 1:5)

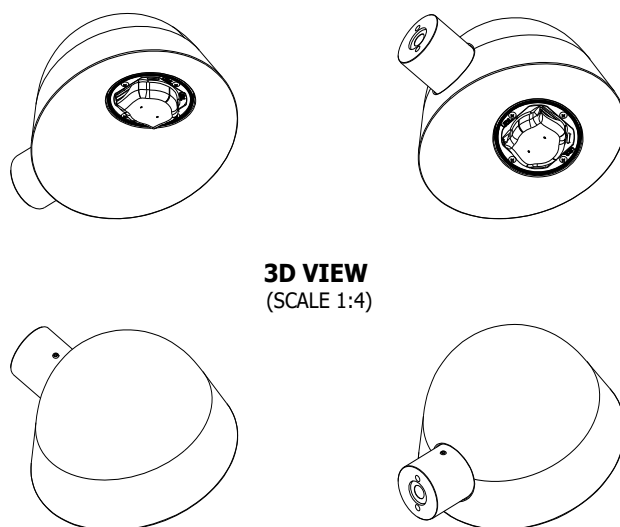
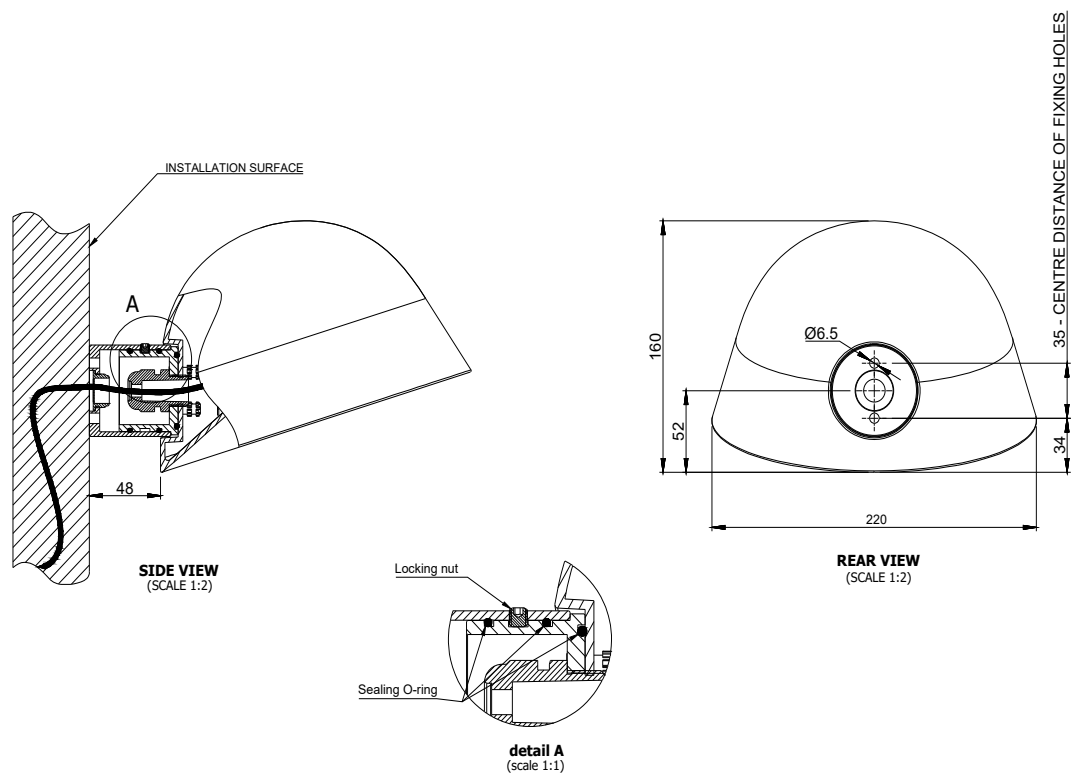


TRIPLE HEAD CONFIGURATION
TOP VIEW
(scale 1:5)

LORELUX - CLOCHE MINIL DATASHEET

MOUNTING DIAGRAMS AND ACCESSORIES

Model: KM-CLOCHE MINIL
Code: KM-CLOCHE-M-LW



FINISHES

Batch-dyed colours



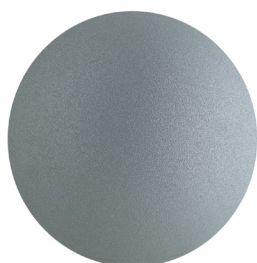
VBLK (graphite black)



VNTH (anthracite)



VBZM (metallic bronze)



VGRM (metallic grey)



VGY1 (grey)



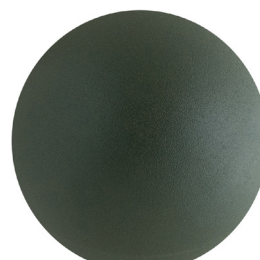
VWH1 (white)



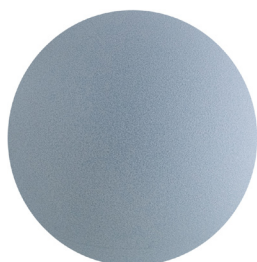
VCRT (marte)



VCR1 (venere)



VGRN (green)



VTQ1 (urano)

Floral finishes*



RTTN (antares)



RBLK (callisto)

*Available on request