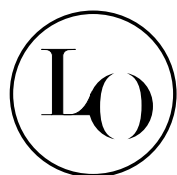


LÈVITA

design ALESSANDRO STABILE



LORELUX

LORELUX - LÈVITA DATASHEET



LORELUX - LÈVITA DATASHEET

Concept	Simple and functional design for a sustainable and resistant urban lighting with an easy maintenance.
Description	Lèvita is a LED urban luminaire suitable for illuminating parks, squares and city roads. Its lighting body is made from innovative polymeric materials that respect urban ecology and resist corrosion, extreme temperatures (from - 60°C to + 80°C) and UV discolouration thanks to the innovative Rotoskin® patented system, the self-cleaning covering providing a protective shield on all exposed surfaces of the luminaire. Lèvita includes post top and post top on arm mounting, offering a wide range of finishes and photometries, as well as remote-control devices guaranteeing further savings and road safety. In addition, the optical compartment featuring LED modules with the Zhaga Book 15 standard can be removed using captive screws.
Materials	Polyethylene containing PSV-certified plastic (Plastic Second Life) as specified below: Black: 90% Floral: 50% Coloured: 50%

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 with captive screws for upgrades and/or repairs, with a separate IP66 optical compartment, fitted with a dedicated anti-condensation valve
- Wide range of colours in 100% recyclable polyethylene
- Wide range of photometries in order to meet all lighting needs

Product's certifications



Material's certifications



Application areas

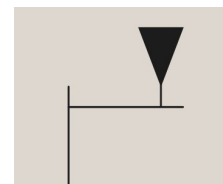


Mountings

Post top
Code **KM-LEVITA-P**



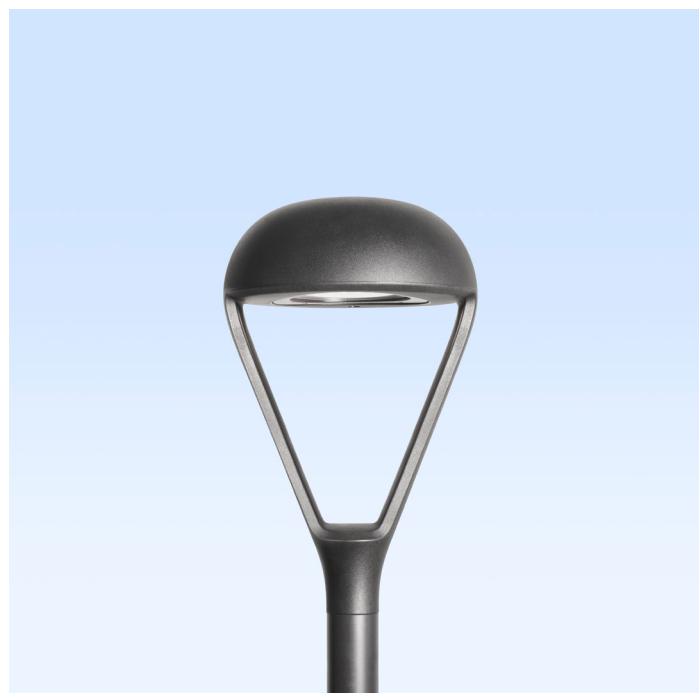
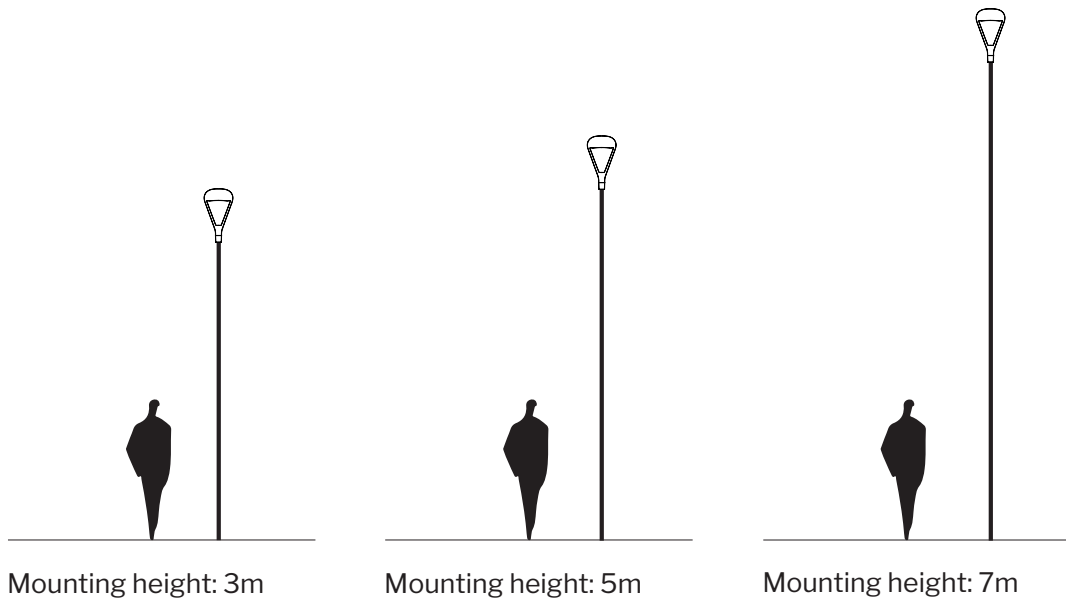
Post top on arm
Code **KM-LEVITA-P**



LORELUX - LÈVITA DATASHEET

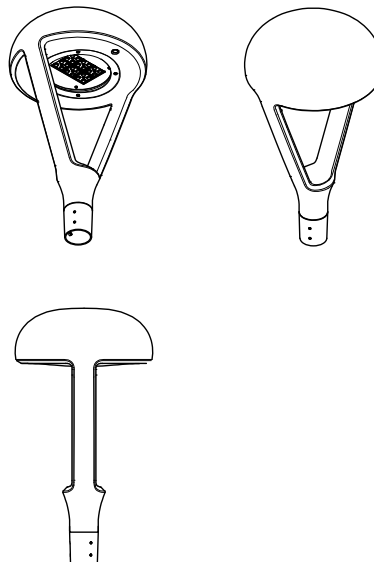
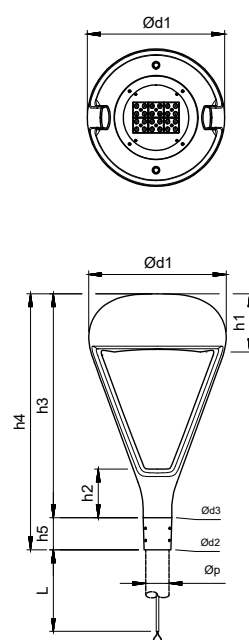


Installation examples



Technical drawing

Post top mounting



DIMENSION TABLE

$d1 = \varnothing 450$ mm
 $d2 = \varnothing 89$ mm
 $d3 = \varnothing 93$ mm
 $\varnothing p = \varnothing 76$ mm pole x 80 standard
 $\varnothing 60$ mm pole x 80 with adapter
 $\varnothing 89$ pole x 80 optional
 $h1 = 190$ mm
 $h2 = 160$ mm
 $h3 = 735$ mm
 $h4 = 840$ mm
 $h5 = 105$ mm
 Outgoing cable length: $L = 1000$ mm
 Weight = 9,0 kg
 Wind exposure: $Scx = 0,159$ m² base
 $= 0,120$ m² lateral

LORELUX - LÈVITA DATASHEET

MAIN FEATURES

Manufacturer	NITEKO S.R.L.
Brand	LORELUX®
Series	LÈVITA P model
Device type	LED urban luminaire
Application areas	Street, urban and residential lighting Historic centres, squares, car parks and green areas Pedestrian areas and cycle lanes
Mounting	Post top
Mounting accessories	Standard: KM-LEVITA-P-HUB76 (for Ø76 mm poles) Optional: · KM-LEVITA-P-RID60 (reducer for Ø60 mm poles) · KM-LEVITA-P-IN60 (male accessory for Ø60 mm poles) · KM-LEVITA-P-IN76 (male accessory for Ø76 mm poles) · KM-LEVITA-P-IN89 (male accessory for Ø89 mm poles)
Product's protection rating	External agents: IP66 Mechanical impacts: IK10 Chemical VOC Free Electrical: EOS Free SPD: MC ≤ 12 kV ; MD ≤ 12kV ; I ≤ 10kA Photobiological: RG1 (D > 1,97m)
Material's protection rating	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: 10 years
Certifications	Product: CE; RoHS; EOS free; VOC free; EPD Italy (Pending); LCA (Pending); ENEC; IEC/EN 62262; Zhaga D4i 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 Optional Tool Less Opening

LORELUX - LÈVITA DATASHEET

OPTICAL FEATURES

Light source	HI Power LED
LED modules	PCB, independent and replaceable
Optics	Independent and replaceable
Nominal luminous flux	1.421 ÷ 12.657 lm
Light source efficiency	· $\eta_{LED} > 180 \text{ lm/W}$ (CCT > 4.000 K / CRI > 70) · $\eta_{LED} > 170 \text{ lm/W}$ (CCT > 3.000 K / CRI > 70) · $\eta_{LED} > 160 \text{ lm/W}$ (CCT > 2.700 K / CRI > 70) · $\eta_{LED} > 150 \text{ lm/W}$ (CCT > 2.200 K / CRI > 70)



LORELUX - LÈVITA DATASHEET

Colour temperature	Standard CCT: 3.000K Optional CCT: 1.800K; 2.200K; 2.700K; 4.000K; 5.000K; 5.700K Colour stability: 3 Step MacAdam
Colour rendering index	Standard CRI: 70 Optional CRI: 80; 90
Photometries	Asymmetric; rotosymmetric
Optical performance	η_{OPT} : 68 ÷ 78%
Lighting fixture efficiency	η_{FIX} > 120 lm/W (CCT > 4.000 K / CRI > 70) η_{FIX} > 115 lm/W (CCT > 3.000 K / CRI > 70) η_{FIX} > 105 lm/W (CCT > 2.700 K / CRI > 70) η_{FIX} > 95 lm/W (CCT > 2.200 K / CRI > 70)
Light intensity class	$\geq G^*2$
Glare index	$\geq D.4$
ULR / ULOR	0,00%
Service life	L95 B10: > 100.000 h ($T_A = 25^\circ C$ IF $\leq 500mA$) L90 B10: > 120.000 h ($T_A = 25^\circ C$ IF $\leq 500mA$) L80 B10: > 270.000 h ($T_A = 25^\circ C$ IF $\leq 500mA$) L70 B10: > 450.000 h ($T_A = 25^\circ C$ IF $\leq 500mA$)

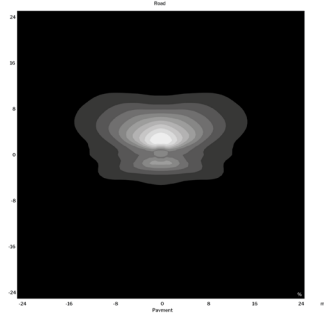
LORELUX - LÈVITA DATASHEET

CONFIGURATIONS

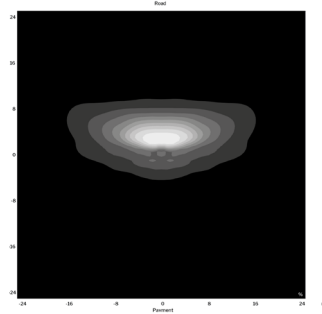
Models	Power [W]	Nominal luminous flux [lm]						
		4.000 K CRI 70 5.000 K CRI 70	5.700 K CRI 70	3.000 K CRI 70	2.700 K CRI 70 4.000 K CRI 80 5.000 K CRI 80 5.700 K CRI 80	3.000 K CRI 80	2.200 K CRI 70 2.700 K CRI 80	1.800 K CRI 70 2.700 K CRI 90
LEVITA-P 15 W	10,8	2.019	1.941	1.908	1.867	1.739	1.687	1.421
	15,7	2.873	2.766	2.718	2.657	2.477	2.403	2.025
LEVITA-P 20 W	20,7	3.710	3.577	3.512	3.431	3.201	3.105	2.618
LEVITA-P 30 W	25,7	4.667	4.506	4.421	4.317	4.030	3.909	3.295
	30,4	5.607	5.419	5.313	5.186	4.842	4.697	3.960
LEVITA-P 40 W	35,3	6.399	6.189	6.064	5.918	6.066	5.884	4.520
	38,7	6.920	6.697	6.559	6.401	5.979	5.800	4.889
LEVITA-P 50 W	20,9	4.273	4.099	4.036	3.952	3.678	3.568	3.007
	25,3	5.117	4.913	4.836	4.733	4.408	4.276	3.604
	30,4	6.091	5.854	5.760	5.634	5.521	5.093	4.293
	35,6	7.055	6.785	6.674	6.525	6.084	5.901	4.974
	40,1	7.872	7.575	7.449	7.281	6.790	6.586	5.552
	45,4	8.817	8.490	8.345	8.155	7.607	7.379	6.220
	50,8	9.752	9.396	9.232	9.020	8.415	8.163	6.881
LEVITA-P 60 W	55,1	10.253	9.835	9.689	9.483	8.832	8.567	7.223
	60,5	11.145	10.574	10.414	10.191	9.915	9.618	7.763
LEVITA-P 70 W	65,2	11.904	11.429	11.253	11.011	10.257	9.949	8.388
	70,0	12.657	12.157	11.996	11.707	10.907	10.580	8.920

PHOTOMETRIES

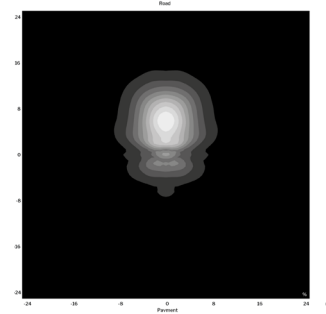
Asymmetric



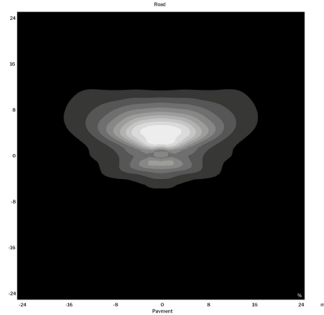
Code A1 ($\eta = 71\% \mid G^*6$)



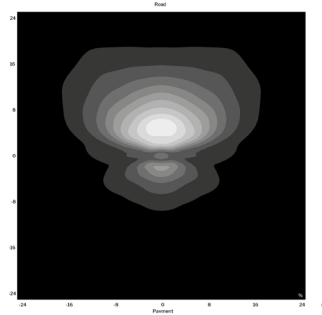
Code A2 ($\eta = 72\% \mid G^*4$)



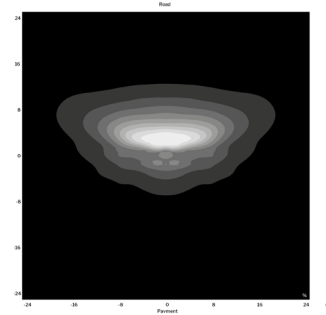
Code A3 ($\eta = 78\% \mid G^*6$)



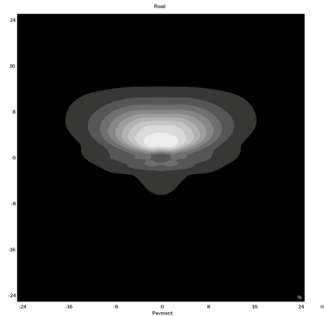
Code A4 ($\eta = 73\% \mid G^*6$)



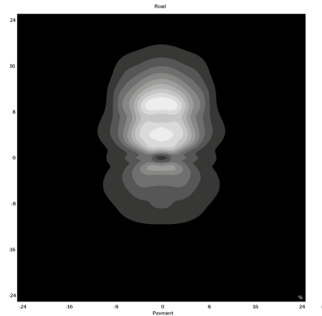
Code A7 ($\eta = 74\% \mid G^*2$)



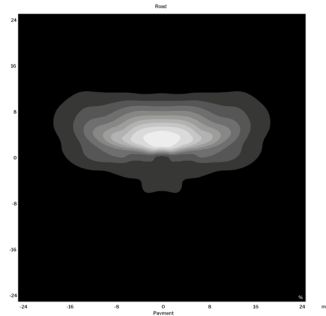
Code A8 ($\eta = 68\% \mid G^*1$)



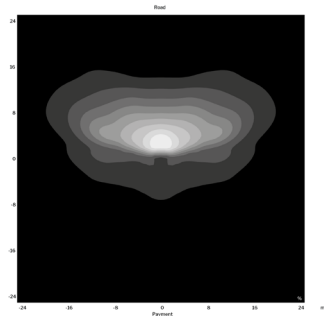
Code A9 ($\eta = 72\% \mid G^*4$)



Code A13 ($\eta = 75\% \mid G^*6$)

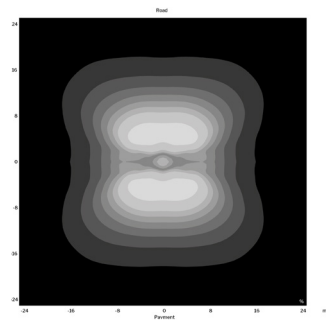


Code AB2 ($\eta = 73\% \mid G^*3$)



Code AB4 ($\eta = 74\% \mid G^*3$)

Rotosymmetric



Code R1 ($\eta = 72\%$ | G*6)

Optional

Other photometries available on request.

ELECTRICAL FEATURES

Power supply	Standard 240V AC : 175 ÷ 264 V AC; 50 / 60 Hz Optional 240V AC: 120 ÷ 277 V AC; 50 / 60 Hz Optional 12V DC: 9 ÷ 18 V DC Optional 24V DC: 18 ÷ 32 V DC
LED power current	$I_f \leq 500 \text{ mA}$
Insulation class	Standard: class II Optional: class I
Power	15 ÷ 70W
Power factor	PF > 0,97 (Active PFC)
Electrical efficiency	$\eta_{EL} : 83 \div 92 \%$
Electrical connection	External power cable (IP66 protected electrical connector). Standard length: 1,0 m Standard Cable (Class II): H07RN-F 2x1,5mmq; Optional Cable (Class I):H07RN-F 3x1,5mmq; Optional Cable (DALI): H07RN-F 5x1,5mmq;
Electrical protection	Built-in SPD: C.M. $\leq 12 \text{ kV}$; D.M. $\leq 12 \text{ kV}$; I $\leq 10 \text{ kA}$

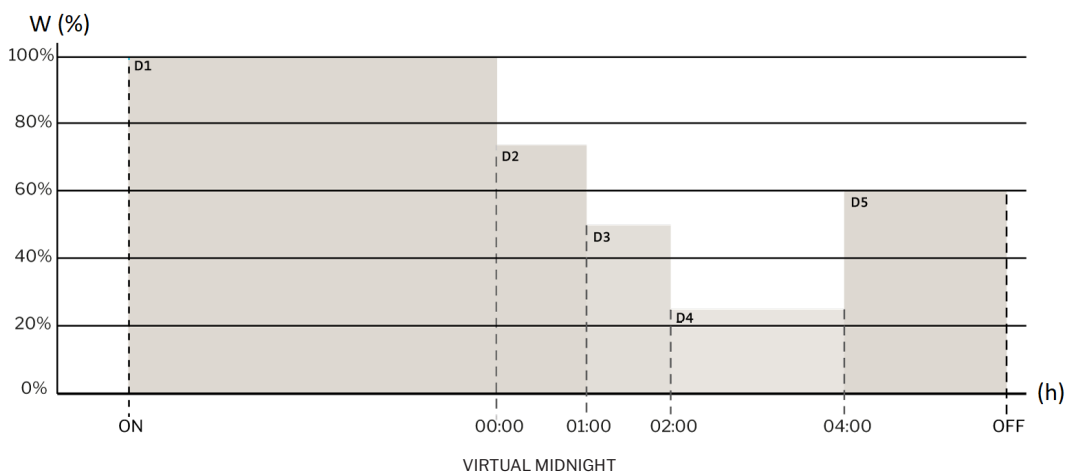


CONTROL FEATURES

Autonomous dimming	K-LEVITA-PRG5: automatic control up to 5 daily profiles
	K-LEVITA-CLO.LITE: constant lighting control during the lifetime with a single profile
	K-LEVITA-CLO.FULL: constant lighting control during the lifetime up to 20 profiles
Control cable dimming	K-LEVITA-DIM: 1-10V analogue control
	K-LEVITA-DALI: DALI digital control
	K-LEVITA-D4i: DALI 2.0 / AUX 24 V DC digital control
Power Line control dimming	K-LEVITA-PLV: Power Line Voltage control
Radio wave control	K-LEVITA-NEMASCK: control with NEMA device
	K-LEVITA-ZAGHASCK: control with ZHAGA device

CONTROL FUNCTIONS

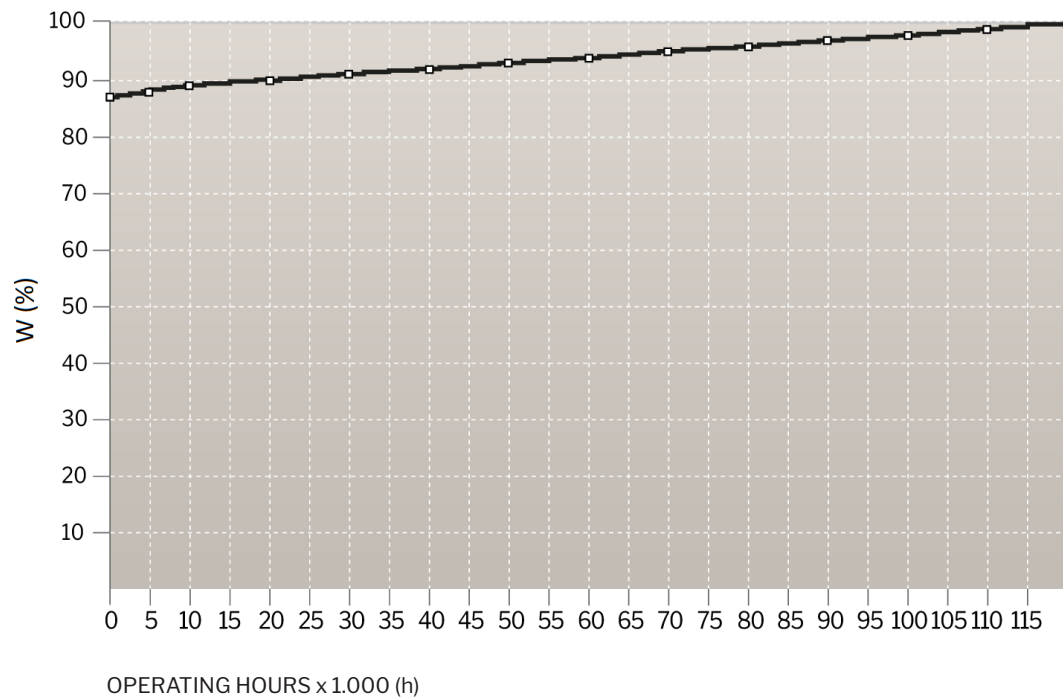
PRG5 module



The PRG module allows to control and reduce the luminous flux of the lighting fixture from 10% to 100% of the maximum value, without the use of dedicated cables

- D1: time slot ON - 23:59 → power 100%
- D2: time slot 00:00 - 00:59 → power 75%
- D3: time slot 01:00 - 01:59 → power 50%
- D4: time slot 02:00 - 03:59 → power 25%
- D5: time slot 04:00 - OFF → power 60%

CLO module

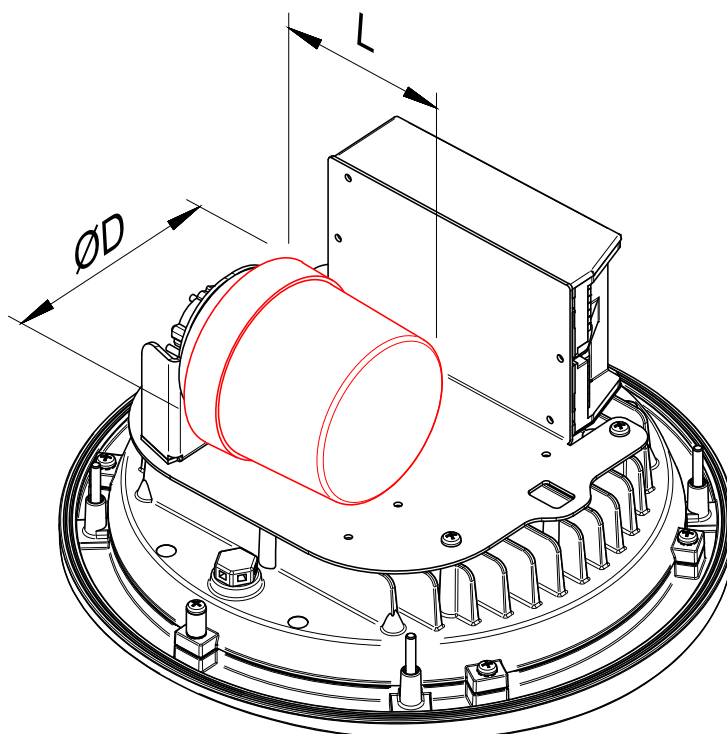
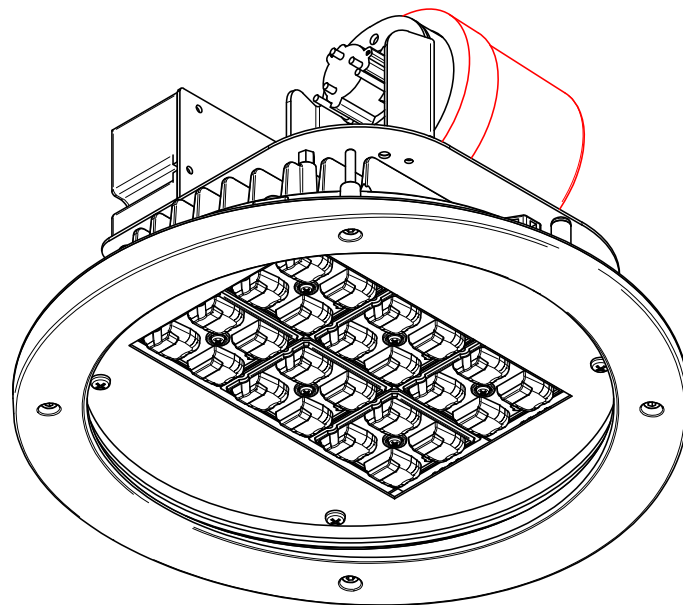


The CLO function allows to gradually increase the level of light output over time from a lower initial luminous flux up to 100%, thus compensating the luminous flux degradation of the LED module during the lighting fixture entire lifetime. It can also serve as a means to reduce energy consumption.

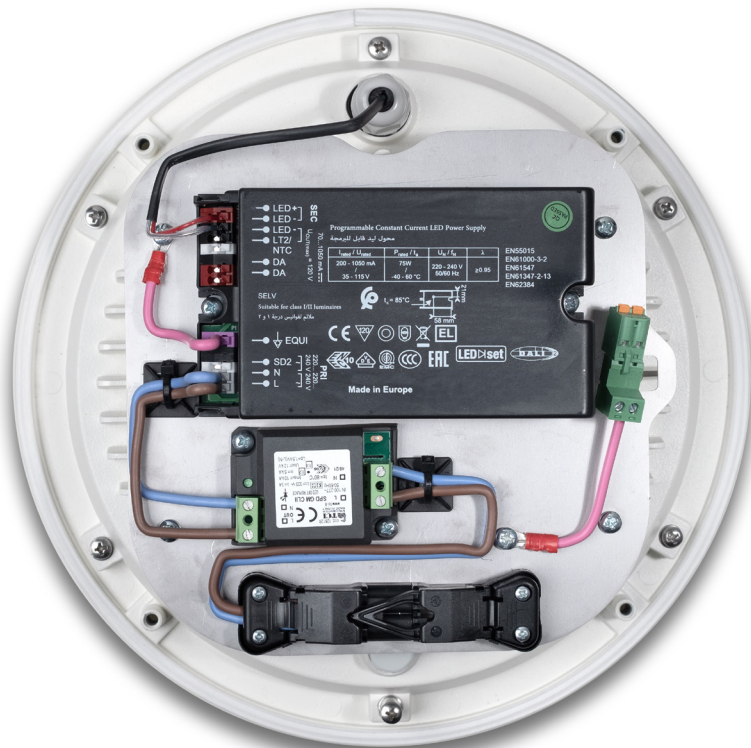
ELECTRIC COMPARTMENT

Maximum possible
dimensions [mm] for
remote-control devices:

$\varnothing D \times L = 84 \times 74$



LORELUX - LÈVITA DATASHEET



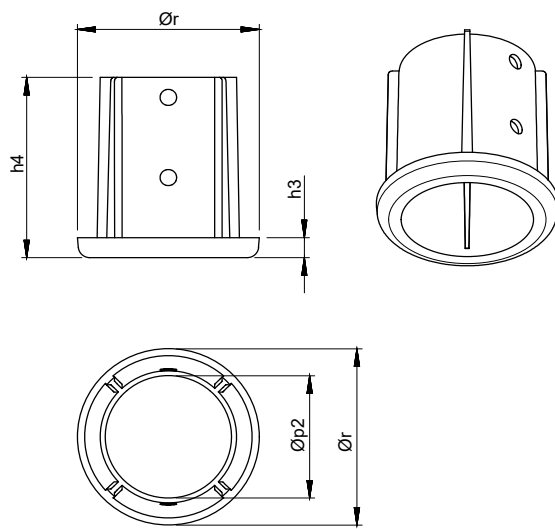
LORELUX - LÈVITA DATASHEET

MECHANICAL FEATURES

Materials	Body: UV stabilised polyethylene, self-cleaning, anti-discolouration and PSV (Plastic Second Life) certified, 5 mm minimum thickness Heat sink: die-cast aluminium LED modules: aluminium Optics: PMMA, PC Screen: tempered flat glass, 5 mm thickness Gaskets: silicone Anti-condensation valves: PA (polyamide) Accessories: stainless steel Screws: stainless steel Packaging: FSC cardboard
Recycled plastic content	Black: 90% Coloured: 50% Floral: 50%
Service life	Body: >50 years Components: >10 years
Dimensions and weight	Ø450 x h730 mm 9,00 kg
Wind exposure	Base: 0,159 mq Lateral: 0,120 mq
Packaging free from both polystyrene and internal cardboard inserts	Primary: W480 x L480 x H900 mm 10,6 kg 1 pcs / box (eco-friendly packaging) Tertiary: W1.000 x L1.200 x H2.050 mm 100,0 kg 8 pcs / pallet (eco-friendly packaging)

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

MOUNTING ACCESSORIES



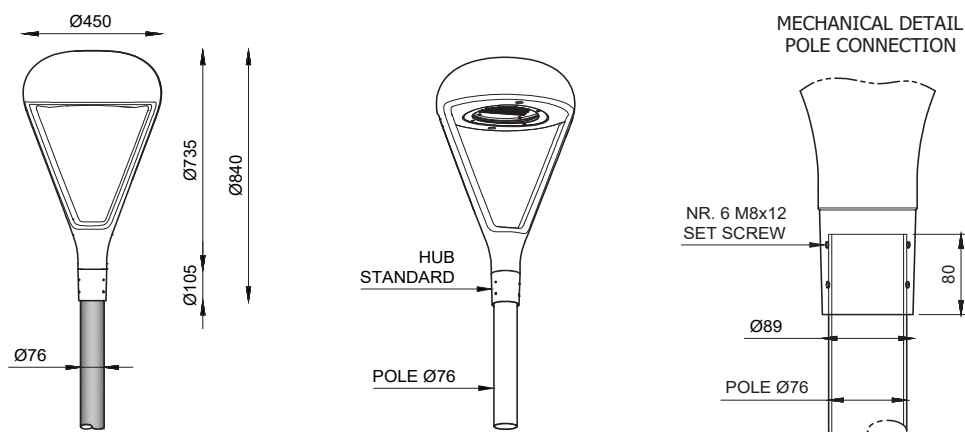
Optional:

Code **KM-LEVITA-P-RID60** (reducer for Ø60 mm poles)

Øp2 = Ø60 mm pole - 90 mm depth | Ør = 88 mm | h3 = 10 mm | h4 = 90mm | Weight = 0,18 kg

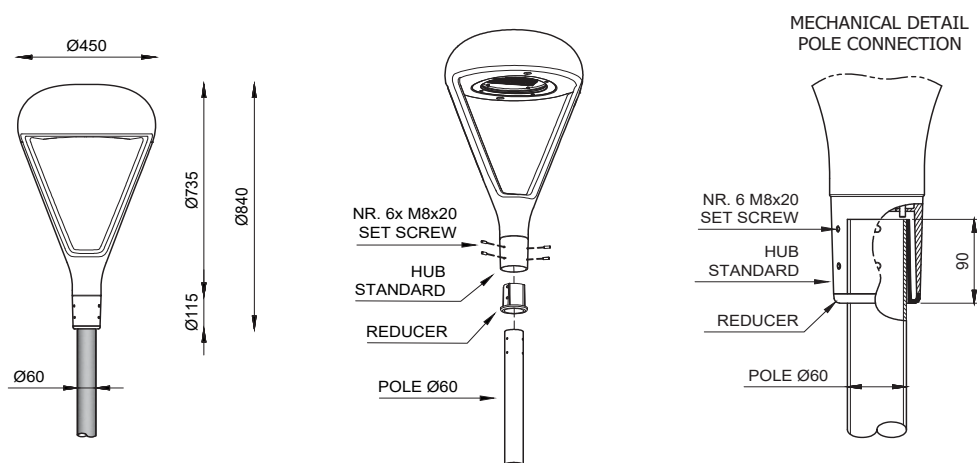
Pole connection with standard die-cast aluminium hub for Ø76 mm poles

Standard:
Code KM-LEVITA-P-HUB76
(for Ø76 mm poles)



Pole connection with standard die-cast aluminium hub and reducer for Ø60 mm poles

Standard:
Code KM-LEVITA-P-RID60
(for Ø60 mm poles)



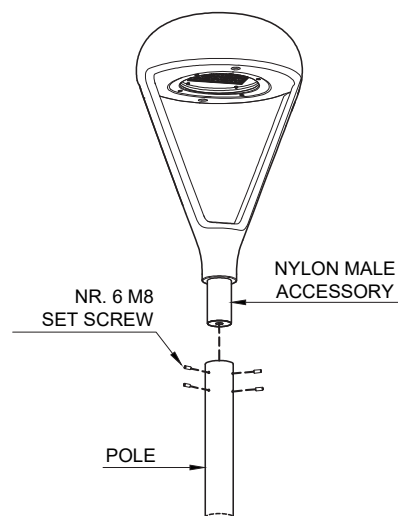
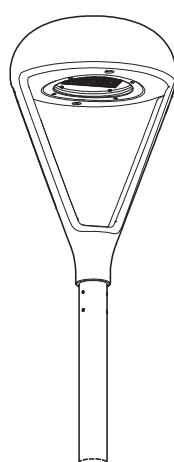
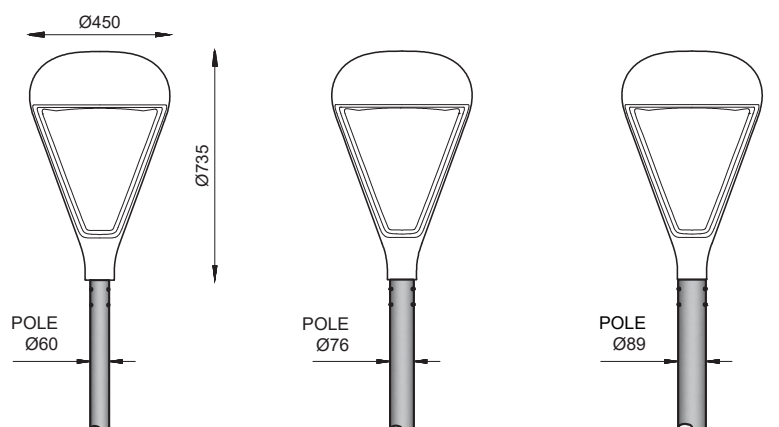
Pole connection with nylon male accessory corresponding to pole's internal diameter

Optional:

KM-LEVITA-P-IN60 (male accessory for Ø60 mm poles)

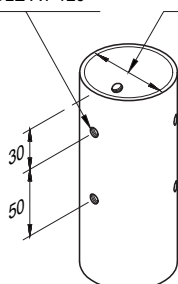
KM-LEVITA-P-IN76 (male accessory for Ø76 mm poles)

KM-LEVITA-P-IN89 (male accessory for Ø89 mm poles)

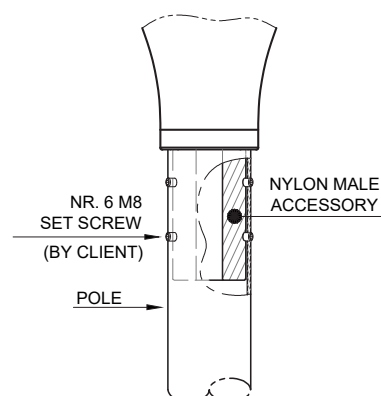


POLE END DETAIL
M8 THREADED HOLES
BY CUSTOMER

NR. 6x M8 THREADED HOLES
ON THE POLE AT 120°

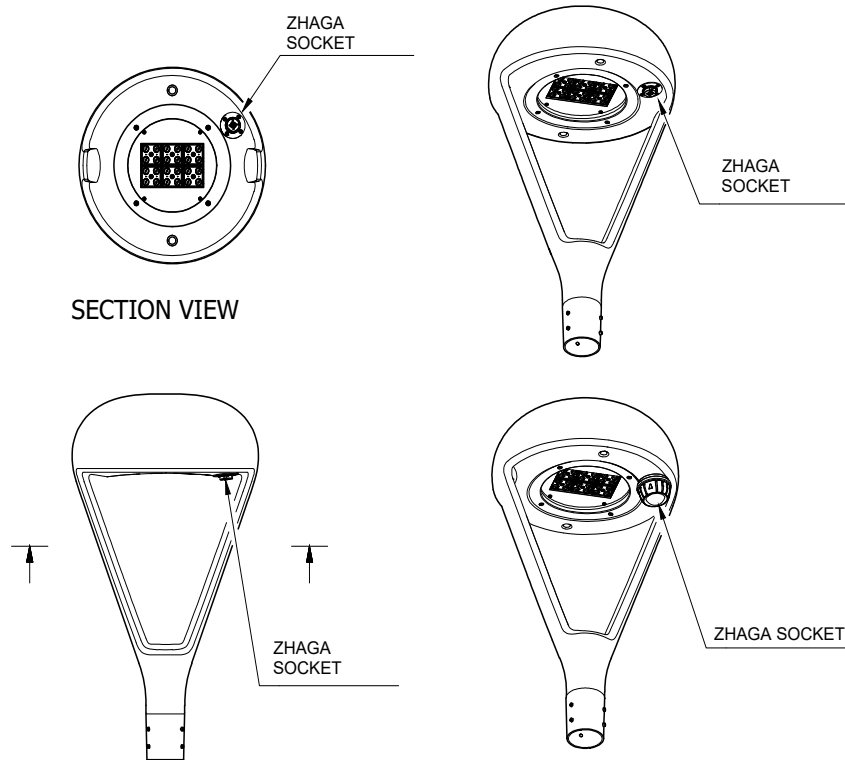


ØPOLE	ØINTERNAL MIN + MAX	Ø NYLON MALE ACC.
Ø60	Ø52 + Ø54	Ø50
Ø76	Ø68 + Ø70	Ø66
Ø89	Ø82 + Ø84	Ø80



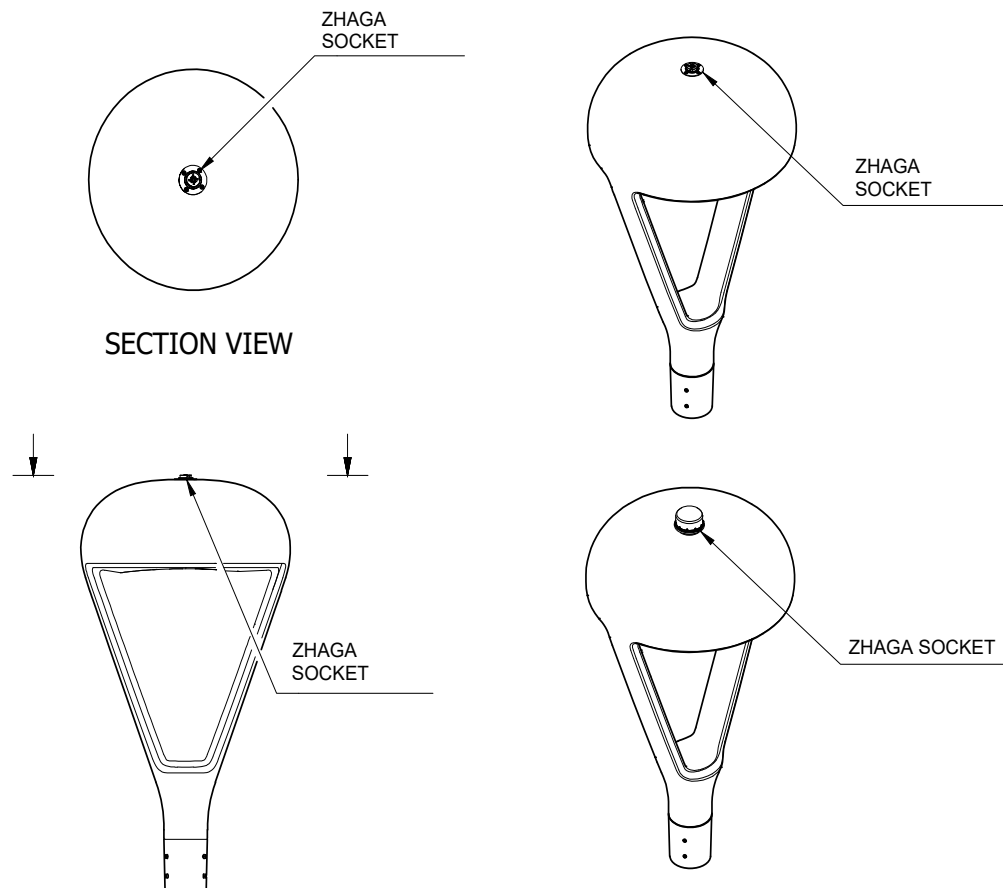
REMOTE-CONTROL DEVICES

Zhaga bottom



REMOTE-CONTROL DEVICES

Zhaga top



FINISHES

Batch-dyed colours



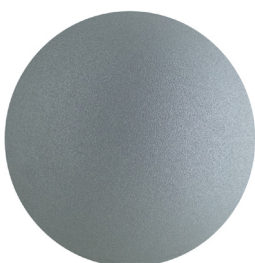
VBLK (graphite black)



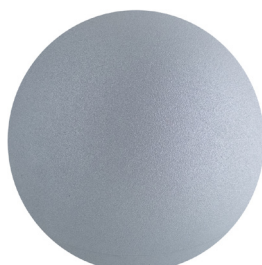
VNTH (anthracite)



VBZM (metallic bronze)



VGRM (metallic grey)



VGY1 (grey)



VWH1 (white)



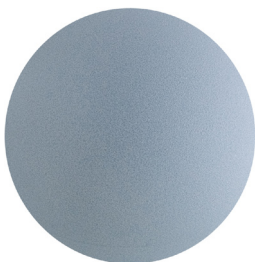
VCRT (marte)



VCR1 (venere)



VGRN (green)



VTQ1 (urano)

Floral



RTTN (antares)



RBLK (callisto)

Projects

