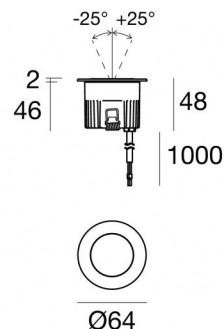


Uplights | 1 x powerLED 4 W DC 350 mA | CRI 80  
81199M15



Technical data	
Type	Walk Over
Installation position	Floor
Installation environment	Outdoor
Light Source	LED
Circuit structure	powerLED
Optics	Spot
Light emission direction	upward
Nominal power	4 W DC
Source lumens	490 lm
Input voltage range	350mA
CCT / Tone	2700 K
Colour rendering index	80 Ra
C.C. / C.V.	CC
Safety class	3
IP	IP68
Installation limitations	Not for underwater use
IK	IK10
Glow wire test	850°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
Driver included	No
Dimmable article	DALI - 1-10V
Directional	No
Tilting	Yes
total angle (vertical plane)	50 °
Walk-over	Yes
Drive-over	2000 Kg
Cable included	Yes
Cable length	1 m
Resin potting	Yes
Type of light emission	Single emission
Net weight	0.2 Kg
Electrostatic discharge protection	No
Surge protection	No
Product technological characteristics	Acquastop - TVS

#### Finishing casing

Material	Die-cast Aluminium EN AB - 46100
Colour	black
Processing	Open pore anodizing + Powder Coating

#### Finishing diffuser

Material	Extra clear glass - Tempered
Colour	transparent

#### Finishing flange

Material	AISI 316L steel
Colour	steel
Processing	Brushing

#### Electronics



89421  
On/Off Driver 198~264V AC / 176~275V DC (1 art.)



C-E200006  
On/Off Driver 198~264V AC / 180~275V DC (1 - 3 art.)



## Uplights | 1 x powerLED 4 W DC 350 mA | CRI 80 | Base 81199M15

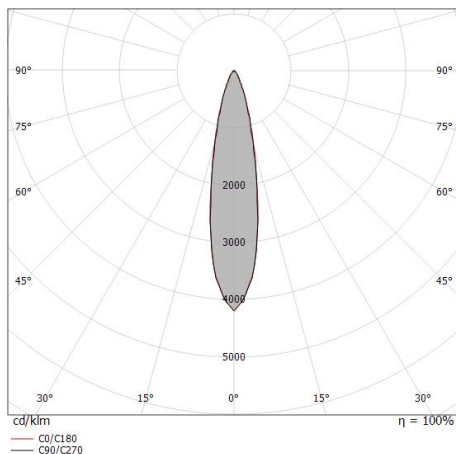
Single emission uplights for outdoor application. The super warm white LED light source with a spot light distribution is composed of 1 powered LEDs with CCT of 2700 K and a CRI 80; the source luminous flux is 490 lm, with a 122.5 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a black finish, processed by means of open pore anodizing + powder coating; the diffuser is made of extra clear glass - tempered. The ingress protection degree is IP68; the total weight is of 0.2 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 4 W. The power supply cable is included and features a 1 m length.

The device features protection class III and can be floor-mounted with an outer casing, code 99650(for concrete or masonry).

Compliant with the EN 60598-1 standard and its specific provisions.



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	0.19 0.20	E(0°) 5143 E(C90) 11.0° 2452 E(C0) 11.1° 2434
1.0	0.39 0.39	E(0°) 1286 E(C90) 11.0° 613 E(C0) 11.1° 608
1.5	0.58 0.59	E(0°) 571 E(C90) 11.0° 272 E(C0) 11.1° 270
2.0	0.78 0.78	E(0°) 321 E(C90) 11.0° 153 E(C0) 11.1° 152
2.5	0.97 0.98	E(0°) 206 E(C90) 11.0° 98 E(C0) 11.1° 97
3.0	1.17 1.18	E(0°) 143 E(C90) 11.0° 68 E(C0) 11.1° 68

— C0/C180 (Half-peak divergence: 22.2°)  
— C90/C270 (Half-peak divergence: 22.0°)

### Energy efficiency class

This product contains a light source of energy efficiency class E.

### Illuminotechnical Features

Light Output Ratio (LOR)	62 %
Source lumens	490 lm
Delivered lumens	307 lm
Consumption	4 W
Luminaire efficacy	76 lm/W
Colour temperature	2700 K
Standard Deviation of Colour Matching	3 Step MacAdam
Colour rendering index	80 Ra
Black Body Locus	On
Standard Operating Ambient Temperature	-20 / +50°C
Ordinary temperature on the glass	40°C

### LED Life / Failure Ratio

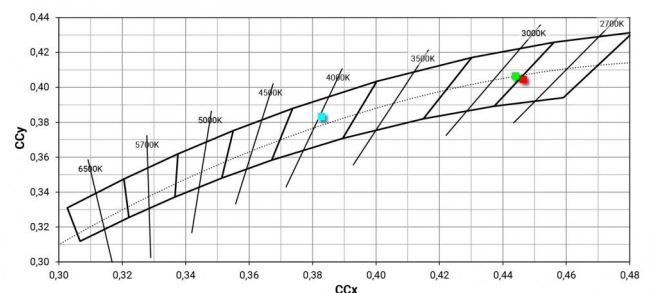
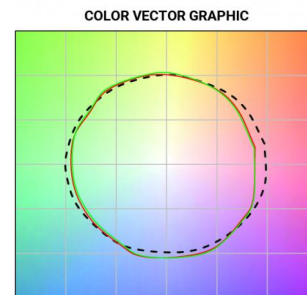
L70 B10 C0 247450h (at Tj 60 Ta 25 )

### UGR

UGR axial	15.6
UGR transversal	15.6
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

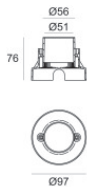
### OPTICAL

C0/C180 optics	22°
Light distribution simmetry	Symmetrical





Orma\_IJ | Uplights | Accessories  
**81199M15**



Outer casing

installation position: floor, land; type of installation: masonry L=97mm, H=76mm, D=97mm.

Material:ABS Plastic, colour:black.

**Code**

99650