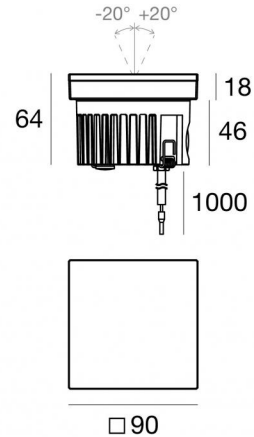




Uplights | 1 arrayLED 9 W DC 24 V | CRI 80  
77321N15



Technical data	
Type	Walk Over
Installation position	Floor
Installation environment	Outdoor
Light Source	LED
Circuit structure	arrayLED
Optics	Spot
Light emission direction	upward
Nominal power	9 W DC
Source lumens	1188 lm
Input voltage range	24 V
CCT / Tone	4000 K
Colour rendering index	80 Ra
C.C. / C.V.	CV
Safety class	3
IP	IP67
IK	IK10
Glow wire test	850°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
Driver included	No
C.V. - C.C. Converter	Converter 24V included
Dimmable article	DALI - 1-10V
Directional	No
Tilting	Yes
total angle (vertical plane)	40 °
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	0.65 Kg
Electrostatic discharge protection	No
Surge protection	No
Optics technology	Honey comb
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
Processing	Silk-screening


### Electronics

 89179  
On/Off Driver 198~264V AC 24 W (1 - 2 art.)

 89359  
On/Off Driver 198~264V AC / 180~275V DC 48 W (1 - 5 art.)

 99331  
On/Off Driver 198~264V AC / 180~275V DC 150 W (1 - 16 art.)

 99660  
DALI - 1-10V Controller 24V DC 216 W (- art.)

 C-E500023  
DALI - 1-10V - Push and Simply Dim Controller 8~53V DC 576 W (- art.)

### Cables Electrification

Cable connector	No
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## Uplights | 1 arrayLED 9 W DC 24 V | CRI 80 | Base 77321N15

Single emission uplights for outdoor application. The natural white LED light source with a spot light distribution is composed of 1 arrayed LEDs with CCT of 4000 K and a CRI 80; the source luminous flux is 1188 lm, with a 132.0 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 with a silk-screening treatment. The ingress protection degree is IP67; the total weight is of 0.65 kg.

The total absorbed power is 9 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 C-C100003(for concrete or masonry).

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

### Energy efficiency class

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

### Illuminotechnical Features

Light Output Ratio (LOR)	53 %
Source lumens	1188 lm
Delivered lumens	633 lm
Consumption	9 W
Luminaire efficacy	70 lm/W
Colour temperature	4000 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	80 Ra
Black Body Locus	On

Standard Operating Ambient Temperature	-20 / +50°C
Ordinary temperature on the glass	50°C

### LED Life / Failure Ratio

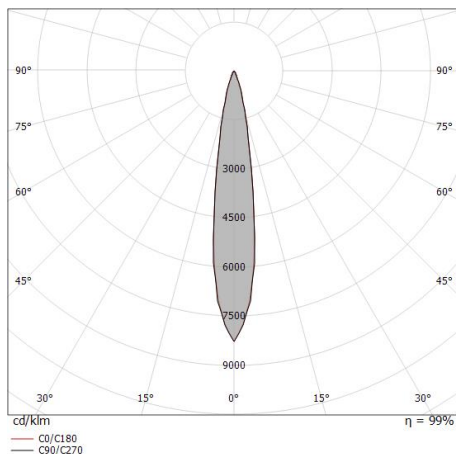
L70 B10 C0 252000h (at Tj 65 Ta 25 )

### UGR

UGR axial	7.6
UGR transversal	7.5
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

### OPTICAL

C0/C180 optics	17°
Light distribution simmetry	Symmetrical



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	0.15 0.15	E(0°) 20916 E(C90) 8.4° 10203 E(C0) 8.3° 10300
1.0	0.30 0.29	E(0°) 5229 E(C90) 8.4° 2551 E(C0) 8.3° 2575
1.5	0.44 0.44	E(0°) 2324 E(C90) 8.4° 1134 E(C0) 8.3° 1144
2.0	0.59 0.58	E(0°) 1307 E(C90) 8.4° 638 E(C0) 8.3° 644
2.5	0.74 0.73	E(0°) 837 E(C90) 8.4° 408 E(C0) 8.3° 412
3.0	0.89 0.88	E(0°) 581 E(C90) 8.4° 283 E(C0) 8.3° 286

— C0/C180 (Half-peak divergence: 16.6°)  
— C90/C270 (Half-peak divergence: 16.8°)





Orma\_QFJ | Uplights | Accessories  
**77321N15**



Tool - Suction cup for product extraction  
Material:plastic, colour:orange, processing:Coating.

**Code**  
83235



Outer casing  
installation position: floor, land; type of installation: masonry L=114mm, H=93mm,  
D=114mm.  
Material:ABS Plastic, colour:black.

**Code**  
C-C100003