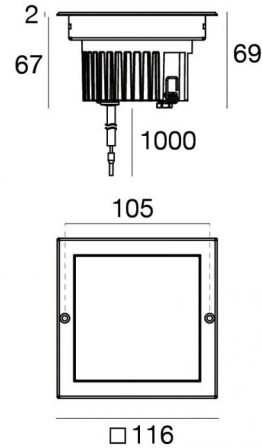


Uplights | 1 arrayLED 8 W DC 24 V | CRI 80  
77312N60



Technical data	
Type	Walk Over
Installation position	Floor
Installation environment	Outdoor
Light Source	LED
Circuit structure	arrayLED
Optics	Medium Wide Flood
Light emission direction	upward
Nominal power	8 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	No
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	0.9 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

#### Finishing flange

Material	AISI 316 steel
Colour	steel
Processing	Brushing

#### Electronics



89179  
On/Off Driver 198~264V AC 24 W (1 - 3 art.)



89359  
On/Off Driver 198~264V AC / 180~275V DC 48 W (1 - 6 art.)



99331  
On/Off Driver 198~264V AC / 176~275V DC 150 W (1 - 18 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 8 W DC 24 V | CRI 80 | Base 77312N60

Single emission uplights for outdoor application. The natural white LED light source with a medium wide flood 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 148.5 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 with a silk-screening treatment. The ingress protection degree is IP67; the total weight is of 0.9 kg.

The total absorbed power is 8 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 83410(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)	42 %
Source lumens	1188 lm
Delivered lumens	506 lm
Consumption	9 W
Luminaire efficacy	56 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

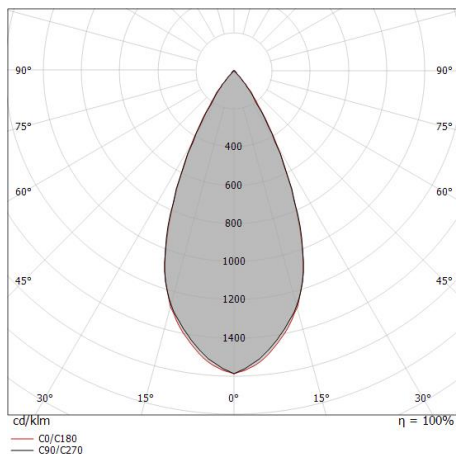
L70 B10 C0 252000h (at Tj 65 Ta 25 )

### UGR

UGR axial	12.4
UGR transversal	12.9
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

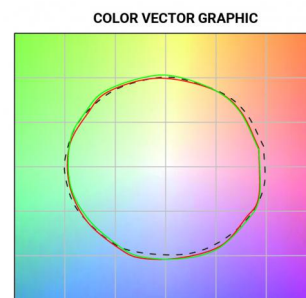
### OPTICAL

C0/C180 optics	48°
Light distribution simmetry	Symmetrical



Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)
0.5	0.45	3209	1223	1227
1.0	0.90	802	306	307
1.5	1.35	357	136	136
2.0	1.81	201	76	77
2.5	2.26	128	49	49
3.0	2.71	89	34	34

— C0/C180 (Half-peak divergence: 48.4°)  
— C90/C270 (Half-peak divergence: 48.6°)





Orma\_Q | Uplights | Accessories  
**77312N60**



Outer casing

installation position: floor, land; type of installation: masonry L=114mm, H=93mm,  
D=114mm.

Material:ABS Plastic, colour:black.

**Code**

83410