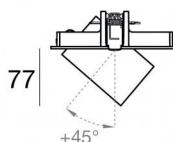
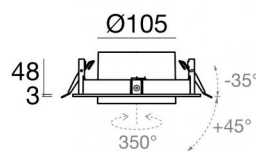
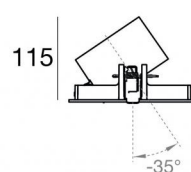
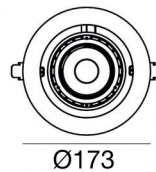




Downlights | 1 arrayLED 35 W DC 950 mA | CRI 90  
81668N60



## Technical data

Type	Encasement with flange
Installation position	Ceiling
Installation environment	Indoor
Light Source	LED
Circuit structure	arrayLED
Optics	Medium Wide Flood
Light emission direction	frontal
Nominal power	35 W DC
Source lumens	5216 lm
Input voltage range	950mA
CCT / Tone	4000 K
Colour rendering index	90 Ra
C.C. / C.V.	CC
Safety class	3
IP	IP20
Glow wire test	850°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
Driver included	No
Dimmable article	DALI - 1-10V
Directional	Extractable
total angle (vertical plane)	65 °
total angle (horizontal plane)	350 °
Tilting	No
Walk-over	No
Drive-over	No
Cable included	Yes
Cable length	0.20 m
Resin potting	No
Type of light emission	Single emission
Net weight	1.1 Kg
Electrostatic discharge protection	No
Surge protection	No

## Finishing casing

Material	Die-cast Aluminium EN AB - 46100
Colour	Black
Processing	Powder coating

## Finishing mounting frame

Material	Die-cast Aluminium EN AB - 46100
Colour	Black
Processing	Powder coating

## Electronics



99239  
On/Off Driver 198-264V AC



99345  
DALI - Push and Simply Dim Multi Power 198-264V AC / 176-275V DC



83008  
1-10V - Push and Simply Dim - DALI-2 Controller



## Downlights | 1 arrayLED 35 W DC 950 mA | CRI 90 | Base 81668N60

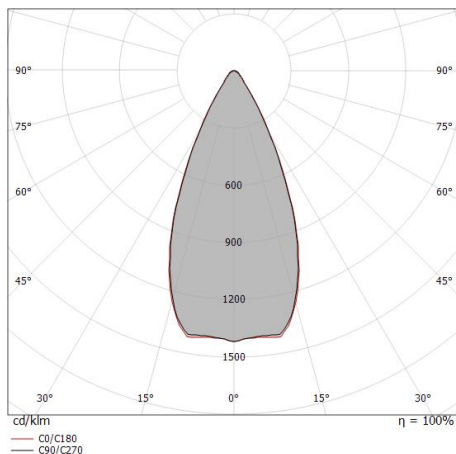
Single emission recessed downlights for indoor application. The natural white LED light source with a medium wide flood light distribution is composed of 1 arrayed LEDs with CCT of 4000 K and a CRI 90; the source luminous flux is 5216 lm, with a 149.0 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a black finish, processed by means of powder coating; the mounting frame is made of die-cast aluminium en ab - 46100, with a black finish, processed by means of powder coating. The ingress protection degree is IP20; the total weight is of 1.1 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 35 W. The power supply cable is included and features a 0.20 m length.

The device features protection class III and can be ceiling-mounted, with a 162 mm diameter hole (in plasterboard) with an outer casing, code 99479(for concrete or masonry).

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



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	0.44 0.45	E(0°) 22754 E(C90) 8699 E(C0) 8726
1.0	0.89 0.89	E(0°) 5688 E(C90) 2175 E(C0) 2182
1.5	1.33 1.34	E(0°) 2528 E(C90) 967 E(C0) 970
2.0	1.77 1.78	E(0°) 1422 E(C90) 544 E(C0) 545
2.5	2.22 2.23	E(0°) 910 E(C90) 348 E(C0) 349
3.0	2.66 2.67	E(0°) 632 E(C90) 242 E(C0) 242

— C0/C180 (Half-peak divergence: 48.0°)  
— C90/C270 (Half-peak divergence: 47.8°)

### Energy efficiency class

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

### Illuminotechnical Features

Light Output Ratio (LOR)	76 %
Source lumens	5216 lm
Delivered lumens	4006 lm
Consumption	35 W
Luminaire efficacy	114 lm/W
Colour temperature	4000 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	90 Ra
Colour Rendering Index	60 R9
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 252000h (at Tj 65 Ta 25)

### UGR

UGR axial	25.3
UGR transversal	25.4
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

### OPTICAL

C0/C180 optics	48°
Light distribution simmetry	Symmetrical

### COLOR VECTOR GRAPHIC





## Downlights | 1 arrayLED 35 W DC 950 mA | CRI 90 | Base 81668N60

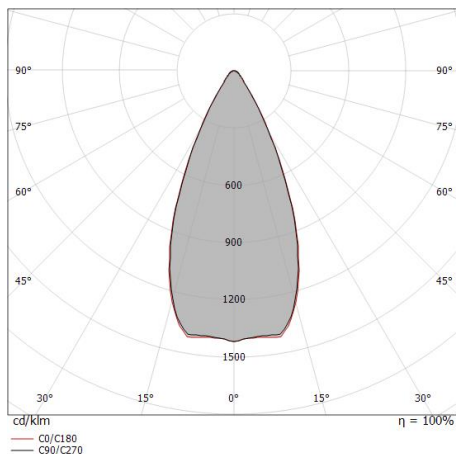
Single emission recessed downlights for indoor application. The natural white LED light source with a medium wide flood light distribution is composed of 1 arrayed LEDs with CCT of 4000 K and a CRI 90; the source luminous flux is 5216 lm, with a 149.0 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a black finish, processed by means of powder coating; the mounting frame is made of die-cast aluminium en ab - 46100, with a black finish, processed by means of powder coating. The ingress protection degree is IP20; the total weight is of 1.1 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 35 W. The power supply cable is included and features a 0.20 m length.

The device features protection class III and can be ceiling-mounted, with a 162 mm diameter hole (in plasterboard) with an outer casing, code 99479(for concrete or masonry).

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



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	0.44 0.45	E(0°) 17589 E(C90) 23.9° 6724 E(C0) 24.0° 6745
1.0	0.89 0.89	E(0°) 4397 E(C90) 23.9° 1681 E(C0) 24.0° 1686
1.5	1.33 1.34	E(0°) 1954 E(C90) 23.9° 747 E(C0) 24.0° 749
2.0	1.77 1.78	E(0°) 1099 E(C90) 23.9° 420 E(C0) 24.0° 422
2.5	2.22 2.23	E(0°) 704 E(C90) 23.9° 269 E(C0) 24.0° 270
3.0	2.66 2.67	E(0°) 489 E(C90) 23.9° 187 E(C0) 24.0° 187

— C0/C180 (Half-peak divergence: 48.0°)  
— C90/C270 (Half-peak divergence: 47.8°)

### Energy efficiency class

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

### Illuminotechnical Features

Light Output Ratio (LOR)	59 %
Source lumens	5216 lm
Delivered lumens	3097 lm
Consumption	25 W
Luminaire efficacy	123 lm/W
Colour temperature	4000 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	90 Ra
Colour Rendering Index	60 R9
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 252000h (at Tj 65 Ta 25)

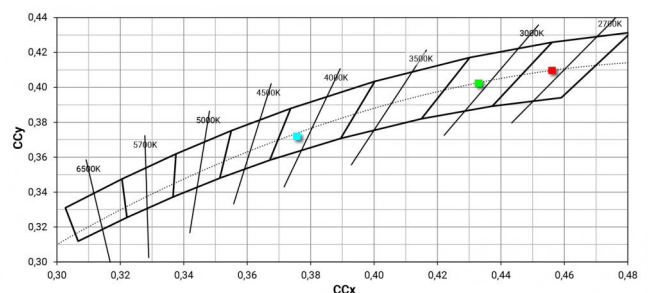
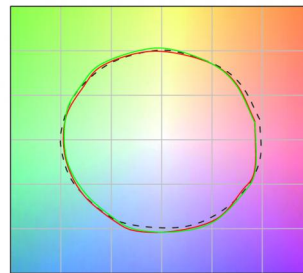
### UGR

UGR axial	24.4
UGR transversal	24.5
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

### OPTICAL

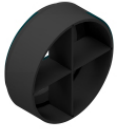
C0/C180 optics	48°
Light distribution simmetry	Symmetrical

### COLOR VECTOR GRAPHIC





	<p>Optics - SPOT Light distribution: spot,Cover material: uv resistant polycarbonate</p>	<p><b>Code</b> <u>C-U300015</u></p>
	<p>Optics - FLOOD Light distribution: flood,Cover material: uv resistant polycarbonate</p>	<p><b>Code</b> <u>C-U300016</u></p>
	<p>Optics - WIDE FLOOD Light distribution: medium flood,Cover material: uv resistant polycarbonate</p>	<p><b>Code</b> <u>C-U300017</u></p>
	<p>Anti-glare Anti-glare Type: honeycomb louvre. Material:Pom-C, colour:Black.</p>	<p><b>Code</b> <u>C-U300014</u></p>
	<p>Optics Light distribution: adjustable,Cover material: aluminium</p>	<p><b>Code</b> <u>C-U300034</u></p>
	<p>Diffuser - Not compatible with 60° optics</p>	<p><b>Code</b> <u>C-U300013</u></p>
	<p>Anti-glare Anti-glare Type: 45° cylindrical screen. Material:Pom-C, colour:Black.</p>	<p><b>Code</b> <u>C-U300030</u></p>
	<p>Anti-glare Anti-glare Type: cylindrical screen. Material:Pom-C, colour:Black.</p>	<p><b>Code</b> <u>C-U300029</u></p>



Anti-glare  
Anti-glare Type: cross louvres.  
Material:Pom-C, colour:Black.

**Code**  
C-U300031



Outer casing  
L=154mm, H=99.6mm, D=150mm.  
Material:PC, colour:black.

**Finish**      **Code**  
**Black**      99479