



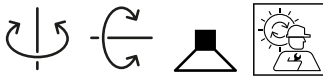
**PROJECT**

**TYPE**

**NOTES**

**QUANTITY**

**DATE**



Round ceiling recessed luminaire made from aluminium; surface Black Matt; powder coated, matt texture; RAL 9011; installation without tools using wire springs; suitable for ceiling thickness of 4-25 mm; recessed depth 90mm; with COB (Chip on Board) technology for maximum efficiency; 350/500mA; light colour 2700 K;  $\leq 2$  SDCM (initial MacAdam); CRI  $\geq 90$ ; beam angle 15°; 355° rotatable and 35° tiltable; degree of protection IP20; Class 3; driver not included; light source replaceable by Wever & Ducré or by a professional with explicit authorization;



**LUMINAIRE**

Ceiling  
Recessed  
tilt max 35 °  
rotation 355 °  
Black Matt  
RAL 9011 <sup>a</sup>  
IP20  
Interior  
605 lm / 350mA  
815 lm / 500mA

**LED MODULE**

2700 K  
CRI  $\geq 90$   
L80 / 55000h  
 $\leq 2$  SDCM (initial MacAdam)  
750 lm / 350mA  
125 lm/W <sup>b</sup>  
6 W <sup>b</sup>

**OPTICAL**

Narrow  
beam angle 15°  
CIE flux code: 87 99 100 100 100

**ELECTRICAL**

excl. driver  
17 V  
Class III

**PHYSICAL**

diameter 110 mm  
height 73 mm  
0.34 kg  
wire springs

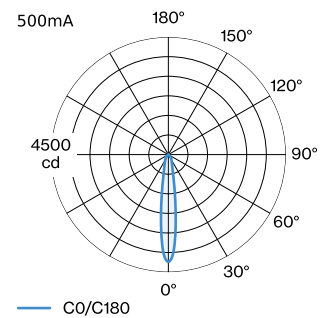
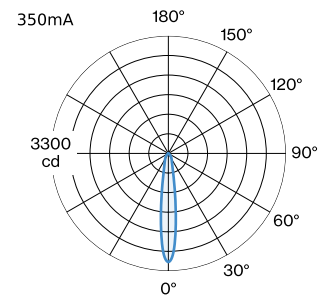
**CUTOUT**

diameter 102-104 mm  
min. ceiling thickness 4 mm  
max. ceiling thickness 25 mm  
recessed depth 90 mm

<sup>a</sup> Colour may deviate slightly due to production conditions

<sup>b</sup> Without electrical and optical losses

**LIGHT DISTRIBUTION**





## CONE DIAGRAM

| narrow 15° 350mA |          |       | narrow 15° 500mA |          |       |
|------------------|----------|-------|------------------|----------|-------|
| h (m)            | E0° (lx) | ø (m) | h (m)            | E0° (lx) | ø (m) |
| 1                | 3050     | 0.27  | 1                | 4110     | 0.27  |
| 2                | 760      | 0.54  | 2                | 1030     | 0.54  |
| 3                | 340      | 0.82  | 3                | 460      | 0.82  |
| 4                | 190      | 1.09  | 4                | 260      | 1.09  |
| 5                | 120      | 1.36  | 5                | 160      | 1.36  |

## Maintenance Factor

| Operating Time [h] | 10.000 | 20.000 | 30.000 | 40.000 | 50.000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF               | 0.99   | 0.98   | 0.97   | 0.96   | 0.95   |
| LSF                | 1      | 1      | 1      | 1      | 1      |

MF LMF × RSMF × LLMF × LSF

MF Maintenance Factor

LMF<sup>a</sup> Luminaire Maintenance Factor

RSMF<sup>a</sup> Room Surface Maintenance Factor

LLMF Lamp Lumens Maintenance Factor

LSF Lamp Survival Factor

<sup>a</sup>According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

## ELECTRICAL ACCESSORIES

### DRIVER

| TYPE                                                | COLOUR | VOLTAGE | L·W·H (MM) | ITEM NUMBER |
|-----------------------------------------------------|--------|---------|------------|-------------|
| 10W   500mA   13-20V   220-240VAC                   |        | 13-20V  | 60·39·20   | 90214406    |
| 10W   500mA   12-21V   phase-cut dim   220-240VAC   |        | 12-21V  | 115·41·25  | 90224403    |
| 15W   500mA   10-31V   DALI-2 push dim   220-240VAC |        | 10-31V  | 166·29·21  | 90244501    |