

# BO 45 semi-recessed

049-6130517V 002-90726



Project / Type

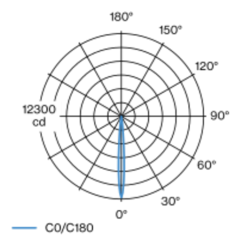
Notes

Count / Date



Cylindrical spotlight in aluminium; surface traffic white powder coated; 350° rotatable and 90° tiltable; recessed version with trim; suitable for ceiling thickness of 2-25 mm; passive cooling of the LEDs through improved heat sink geometry; with high power LED for maximum efficiency; no appearance of multiple shadows; light colour 3000 K; binning initial MacAdam  $\leq 3$  SDCM; CRI  $\geq 90$ ; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality lens system; precise radiation characteristic with 8° beam; good glare control through recessed light point level; optical attachment available as accessory; accessories are listed separately; degree of protection IP20; PC2; 220-240 V; incl. converter, non dimmable; external converter for ceiling insertion, through-wiring suitable; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

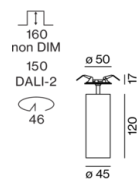
## Light distribution



super spot 8°

| h (m) | E0° (lx) | ø (m) |
|-------|----------|-------|
| 1     | 12100    | 0.14  |
| 2     | 3000     | 0.28  |
| 3     | 1300     | 0.41  |
| 4     | 800      | 0.55  |
| 5     | 500      | 0.69  |

## Product drawing



## General

Ceiling | Semi-Recessed

tilt max 90°

rotation 350°

traffic white | RAL 9016

IP20

346 lm

fixture 50 lm/W <sup>1</sup>

## LED

3000 K

CRI  $\geq 90$

L85 / 50000 h

initial MacAdam  $\leq 3$  SDCM

R<sub>g</sub>: 98 | R<sub>r</sub>: 91 | R<sub>(1-15)</sub>: 89

MR 0.6 | MDER 0.55

## Optical

super spot | beam angle 8°

PstLM  $\leq 1.0$  <sup>2</sup> | SVM  $\leq 0.4$  <sup>2</sup>

## Electrical

non DIM

PC2 | 220-240 V

system 9.3 W | fixture 6.9 W

11 Vf | 600 mA

## Physical

diameter 45 mm | height 149 mm

0.4 kg

## Cutout

diameter 46 mm

min. ceiling thickness 2 mm | max. ceiling thickness 25 mm

recessed depth 160 mm

<sup>1</sup> incl. consideration of optical losses & internal control unit losses  
<sup>2</sup> Value of containing product at full load (undimmed)

## Installation instructions



## Lighting calculator



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## Maintenance Factors

| Operating Time [h] | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF               | 0.98   | 0.95   | 0.92   | 0.89   | 0.86   |
| LSF                | 1      | 1      | 1      | 1      | 1      |

MF

MF

LMF<sup>a</sup>

LMF × RSMF × LLMF × LSF

Maintenance Factor

Luminaire Maintenance Factor

RSMF<sup>a</sup>

LLMF

LSF

Room Surface Maintenance Factor

Lamp Lumens Maintenance Factor

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.

## Components

### POWER SUPPLY

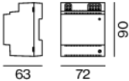
|            |                   |
|------------|-------------------|
| L-W-H (MM) | ARTICLE NUMBER(S) |
| 180-30-21  | 002-90726         |



## Optional electrical accessories

### DIN RAIL POWER SUPPLY

|            |                   |
|------------|-------------------|
| L-W-H (MM) | ARTICLE NUMBER(S) |
| 72-90-63   | 005-6520210       |



### DIN RAIL LED DRIVER

|            |                   |
|------------|-------------------|
| L-W-H (MM) | ARTICLE NUMBER(S) |
| 36-88-59   | 005-6121030       |



## Optical accessories

### HONEYCOMB LOUVER

|   |           |        |                   |
|---|-----------|--------|-------------------|
| TYPE  | COLOUR    | Ø (MM) | ARTICLE NUMBER(S) |
| for BO 45   JUST 45   MOVE IN 45   TARO 45   TULA micro | jet black | 42     | 007-1965188       |



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## Optical accessories

### OVAL LENS

| TYPE                                | Ø (MM) | ARTICLE NUMBER(S) |
|-------------------------------------|--------|-------------------|
| for BO 45   MOVE IN 45   TULA micro | 42     | 007-1965880       |



### SOFT LENS

| TYPE                                      | Ø (MM) | ARTICLE NUMBER(S) |
|---|--------|-------------------|
| for ARY   BO 45   MOVE IN 45   TULA micro | 42     | 007-1965980       |

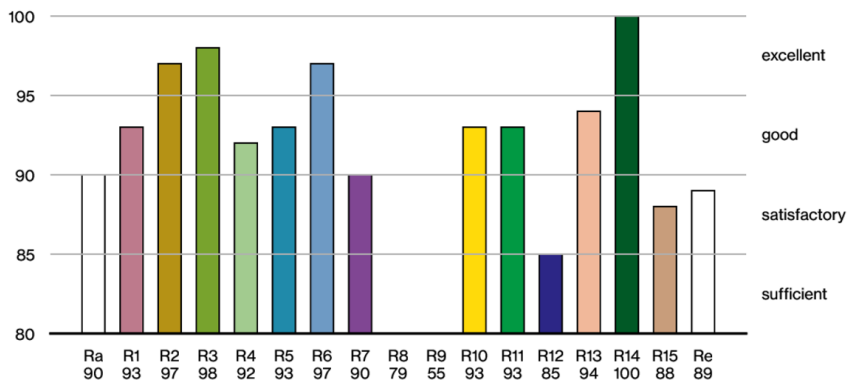
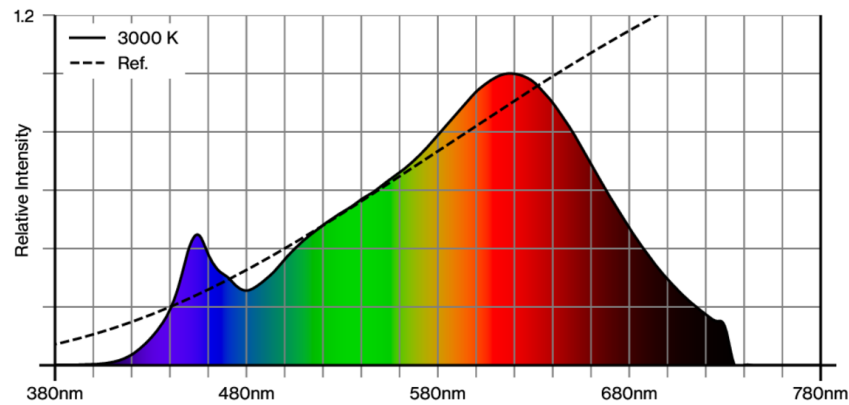


### WALLWASHER LENS

| TYPE                                      | Ø (MM) | ARTICLE NUMBER(S) |
|---|--------|-------------------|
| for ARY   BO 45   MOVE IN 45   TULA micro | 42     | 007-1965780       |



## Colour rendering



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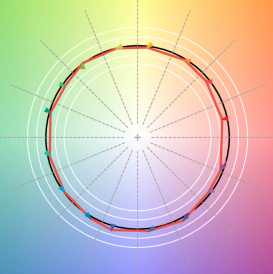


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## TM30 colour vector graphic



The black line represents the black body reference. The red line indicates the results of the test light source. The deviation from the test light source to the reference is shown and is marked by arrows. The shorter the arrows, the higher the color rendering.

