

# BO 45 semi-recessed

049-6130517F 002-90728



Project / Type

Notes

Count / Date



|                               |
|-------------------------------|
| General                       |
| Ceiling , Semi-Recessed       |
| tilt max 90°                  |
| rotation 350°                 |
| white , RAL 9016 <sup>1</sup> |
| IP20                          |
| 1320 lm                       |
| fixture 98 lm/W <sup>2</sup>  |

|   |
|---|
| LED   |
| 3000 K  |
| CRI ≥ 90  |
| L80 / 50000 h   |
| initial MacAdam ≤ 2 SDCM  |
| R <sub>g</sub> : 100 , R <sub>f</sub> : 91 , R <sub>f(1-5)</sub> : 88 |
| MR 0.59   |
| MDER 0.53   |

|                          |
|--------------------------|
| Optical                  |
| flood                    |
| beam angle 36°           |
| PstLM ≤ 1.0 <sup>3</sup> |
| SVM ≤ 0.4 <sup>3</sup>   |

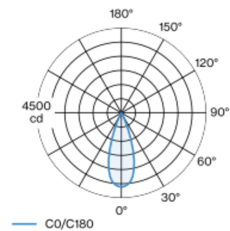
|                |
|----------------|
| Electrical     |
| DALI-2         |
| 220-240 V      |
| system 15.9 W  |
| fixture 13.5 W |
| 36 Vf          |
| 400 mA         |
| PC2            |
| 1 DALI Addr.   |

|                |
|----------------|
| Physical       |
| diameter 45 mm |
| height 149 mm  |
| 0.41 kg        |

|                              |
|------------------------------|
| Cutout                       |
| diameter 46 mm               |
| min. ceiling thickness 2 mm  |
| max. ceiling thickness 25 mm |
| recessed depth 150 mm        |

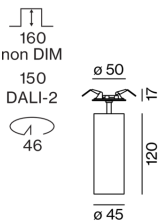
Cylindrical spotlight in aluminium; surface white powder coated; 350° rotatable and 90° tiltable; recessed version with trim; suitable for ceiling thickness of 2-25 mm; passive cooling of the LEDs through improved heat sink geometry; with COB (Chip on Board) technology for maximum efficiency; no appearance of multiple shadows; light colour 3000 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 90; min. 80% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; high quality, aluminium, vapour deposition coated reflector with faceted lens design; precise radiation characteristic with 36° 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. DALI-2 converter; flicker-free visual comfort through analogue current control (minimum value 1%); external converter for ceiling insertion, through-wiring suitable; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

## Light distribution



|           |          |       |  |
|-----------|----------|-------|--|
| flood 36° |          |       |  |
| h (m)     | EO° (lx) | ø (m) |  |
| 1         | 3930     | 0.65  |  |
| 2         | 980      | 1.29  |  |
| 3         | 440      | 1.94  |  |
| 4         | 250      | 2.59  |  |
| 5         | 160      | 3.23  |  |

## Product drawing



<sup>1</sup> RAL code  
<sup>2</sup> incl. consideration of optical losses & internal control unit losses  
<sup>3</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               | 0.96                         | 0.92   | 0.88              | 0.85                            | 0.81   |
| LSF                | 1                            | 1      | 1                 | 1                               | 1      |
| MF                 | LMF × RSMF × LLMF × LSF      |        | RSMF <sup>a</sup> | Room Surface Maintenance Factor |        |
| MF                 | Maintenance Factor           |        | LLMF              | Lamp Lumens Maintenance Factor  |        |
| LMF <sup>a</sup>   | Luminaire 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.

## Circuit Breaker Types

| Automatic Circuit Breaker Type | Number of Fixtures |
|--------------------------------|--------------------|
| B10                            | 36                 |
| B13                            | 47                 |
| B16                            | 58                 |
| C10                            | 36                 |
| C13                            | 78                 |
| C16                            | 58                 |

## Components

### POWER SUPPLY

|            |                   |
|------------|-------------------|
| L-W-H (MM) | ARTICLE NUMBER(S) |
| 197-29-21  | 002-90728         |



## Optional electrical accessories

### DIN RAIL POWER SUPPLY

|       |            |                   |
|-------|------------|-------------------|
| TYPE  | L-W-H (MM) | ARTICLE NUMBER(S) |
| 160 W | 72-90-63   | 005-6520210       |



### DIN RAIL LED DRIVER

|                                |            |                   |
|--------------------------------|------------|-------------------|
| TYPE                           | L-W-H (MM) | ARTICLE NUMBER(S) |
| DALI-2   200-1050 mA   2 x 42W | 36-88-59   | 005-6121030       |



## Optical accessories

### HONEYCOMB LOUVER

|           |        |                   |
|-----------|--------|-------------------|
| COLOUR    | Ø (MM) | ARTICLE NUMBER(S) |
| jet black | 42     | 007-1965188       |



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## Optical accessories

### OVAL LENS

| Ø (MM) | ARTICLE NUMBER(S) |
|--------|-------------------|
| 42     | 007-1965880       |



### SOFT LENS

| Ø (MM) | ARTICLE NUMBER(S) |
|--------|-------------------|
| 42     | 007-1965980       |



### WALLWASHER LENS

| Ø (MM) | ARTICLE NUMBER(S) |
|--------|-------------------|
| 42     | 007-1965780       |

