

# BO 32 semi-recessed

049-6120718M 002-90743



Project / Type

Notes

Count / Date



|                               |
|-------------------------------|
| General                       |
| Ceiling , Semi-Recessed       |
| tilt max 90°                  |
| rotation 350°                 |
| black , RAL 9005 <sup>1</sup> |
| IP20                          |
| 773 lm                        |
| fixture 89 lm/W <sup>2</sup>  |

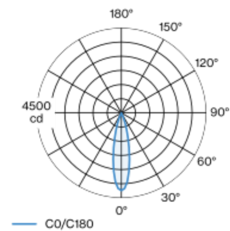
|   |
|---|
| LED   |
| 3500 K  |
| CRI ≥ 90  |
| L80 / 50000 h   |
| initial MacAdam ≤ 2 SDCM  |
| R <sub>g</sub> : 97 , R <sub>r</sub> : 90 , R <sub>(1-5)</sub> : 89 |
| MR 0.7  |
| MDER 0.63   |

|                          |
|--------------------------|
| Optical                  |
| medium                   |
| beam angle 24°           |
| PstLM ≤ 1.0 <sup>3</sup> |
| SVM ≤ 0.4 <sup>3</sup>   |

Cylindrical spotlight in aluminium; surface black 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 3500 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 24° 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;

|               |
|---------------|
| Electrical    |
| DALI-2        |
| 220-240 V     |
| system 11.6 W |
| fixture 8.7 W |
| 36 Vf         |
| 250 mA        |
| PC2           |
| 1 DALI Addr.  |

## Light distribution



|            |          |       |  |
|------------|----------|-------|--|
| medium 24° |          |       |  |
| h (m)      | EO° (lx) | ø (m) |  |
| 1          | 4110     | 0.42  |  |
| 2          | 1030     | 0.83  |  |
| 3          | 460      | 1.25  |  |
| 4          | 260      | 1.67  |  |
| 5          | 160      | 2.09  |  |

## Product drawing



|                |
|----------------|
| Physical       |
| diameter 32 mm |
| height 139 mm  |
| 0.39 kg        |

|                              |
|------------------------------|
| Cutout                       |
| diameter 46 mm               |
| min. ceiling thickness 2 mm  |
| max. ceiling thickness 25 mm |
| recessed depth 110 mm        |

<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               | 0.964                        | 0.923  | 0.884             | 0.847                           | 0.811  |
| 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                            | 80                 |
| B13                            | 104                |
| B16                            | 130                |
| B20                            | 162                |
| C10                            | 135                |
| C13                            | 175                |
| C16                            | 220                |
| C20                            | 270                |

## Components

### POWER SUPPLY

| TYPE | L·W·H (MM) | ARTICLE NUMBER(S) |
|------|------------|-------------------|
| 10 W | 147-33-23  | 002-90743         |



## 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 | 30     | 007-1965168       |



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## Optical accessories

### OVAL LENS

|               |                          |
|---------------|--------------------------|
| <b>Ø (MM)</b> | <b>ARTICLE NUMBER(S)</b> |
| 30            | 007-1965860              |



### SOFT LENS

|               |                          |
|---------------|--------------------------|
| <b>Ø (MM)</b> | <b>ARTICLE NUMBER(S)</b> |
| 30            | 007-1965960              |



### WALLWASHER LENS

|               |                          |
|---------------|--------------------------|
| <b>Ø (MM)</b> | <b>ARTICLE NUMBER(S)</b> |
| 30            | 007-1965760              |

