

BO 55 semi-recessed

049-6140718M 002-90729



Project / Type

Notes

Count / Date



| |
|-------------------------------|
| General |
| Ceiling , Semi-Recessed |
| tilt max 90° |
| rotation 350° |
| black , RAL 9005 ¹ |
| IP20 |
| 1900 lm |
| fixture 90 lm/W ² |

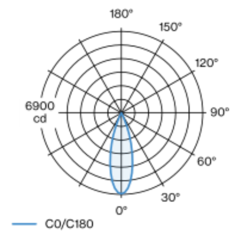
| |
|---|
| LED |
| 3500 K |
| CRI ≥ 90 |
| L80 / 50000 h |
| initial MacAdam ≤ 2 SDCM |
| R _g : 97 , R _r : 90 , R ₍₁₋₅₎ : 89 |
| MR 0.7 |
| MDER 0.63 |

| |
|--------------------------|
| Optical |
| medium |
| beam angle 31° |
| PstLM ≤ 1.0 ³ |
| SVM ≤ 0.4 ³ |

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 31° 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;

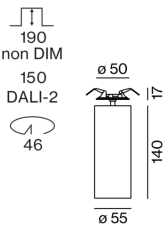
| |
|----------------|
| Electrical |
| DALI-2 |
| 220-240 V |
| system 24.7 W |
| fixture 21.0 W |
| 36 Vf |
| 600 mA |
| PC2 |
| 1 DALI Addr. |

Light distribution



| | | | |
|------------|----------|-------|--|
| medium 31° | | | |
| h (m) | EO° (lx) | ø (m) | |
| 1 | 6860 | 0.55 | |
| 2 | 1710 | 1.10 | |
| 3 | 760 | 1.65 | |
| 4 | 430 | 2.20 | |
| 5 | 270 | 2.75 | |

Product drawing



| |
|----------------|
| Physical |
| diameter 55 mm |
| height 159 mm |
| 0.46 kg |

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

¹ RAL code
² incl. consideration of optical losses & internal control unit losses
³ 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 ^a | Room Surface Maintenance Factor | |
| MF | Maintenance Factor | | LLMF | Lamp Lumens Maintenance Factor | |
| LMF ^a | Luminaire Maintenance Factor | | LSF | Lamp Survival Factor | |

^a 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 | 002-90729 |



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 | 50 | 007-1965598 |



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Optical accessories

OVAL LENS

| | |
|--------|-------------------|
| Ø (MM) | ARTICLE NUMBER(S) |
| 50 | 007-1965890 |



SOFT LENS

| | |
|--------|-------------------|
| Ø (MM) | ARTICLE NUMBER(S) |
| 50 | 007-1965990 |



WALLWASHER LENS

| | |
|--------|-------------------|
| Ø (MM) | ARTICLE NUMBER(S) |
| 50 | 007-1965790 |

