

BETO circle 1600 direct / indirect power

suspended

074-7444137R

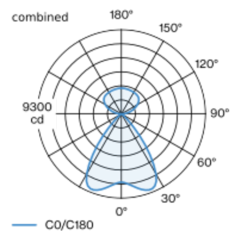


| |
|----------------|
| Project / Type |
| Notes |
| Count / Date |

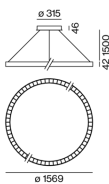


Ring-shaped light fitting in rolled and seamlessly welded extruded aluminium profile; extremely slim design (only 42 x 42 mm); surface white powder coated; suspended luminaire with 1500mm cable suspension (canopy central); with integrated toolless suspension height adjustment on the luminaire; incl. transparent feed; extruded profile for improved thermal management; light colour 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90 ; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; high gloss reflector with faceted design; Reflector chrome; UGR ≤ 13 ; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above $65^\circ \leq 1500$ cd/m²; direct/indirect illumination characteristic; indirect light component with integrated PC boards and high quality lens system for maximum, homogeneous ceiling illumination, separately controllable; degree of protection IP20; PC1; 220-240 V; internal wiring in light halogen free; incl. DALI-2 converter; converter included in canopy; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Light distribution



Product drawing



General

| |
|-------------------------------------|
| Ceiling Suspended |
| white RAL 9010 ¹ |
| Reflector chrome |
| IP20 |
| indirect 11300 lm direct 11900 lm |
| total 23200 lm |

LED

| |
|---|
| 4000 K |
| CRI ≥ 90 |
| L90 / 50000 h |
| initial MacAdam ≤ 3 SDCM |
| R _g : 99 R _f : 92 R _{t(1-15)} : 90 |
| MR 0.81 MDER 0.74 |

Optical

| |
|---|
| Reflector symmetric |
| UGR ≤ 13 $\geq 65^\circ < 1500$ cd/m ² |
| PstLM $\leq 1.0^2$ ³ SVM $\leq 0.4^2$ ³ |

Electrical

| |
|---|
| DALI-2 D/I separately controllable 2 DALI Addr. |
| PC1 220-240 V |
| system 172 W |
| system 135 lm/W ⁴ |

Physical

| |
|---------------------------------|
| diameter 1569 mm height 42 mm |
| 9 kg |

¹ RAL code ² combined
³ Value of containing product at full load (undimmed)
⁴ incl. consideration of optical losses, internal control unit losses & operating device efficiency

Installation instructions



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Maintenance Factors

| Operating Time [h] | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF | 0.98 | 0.96 | 0.94 | 0.92 | 0.9 |
| LSF | 1 | 1 | 1 | 1 | 1 |

MF

LMF × RSMF × LLMF × LSF

MF

Maintenance Factor

LMF^a

Luminaire Maintenance Factor

RSMF^a

Room Surface Maintenance Factor

LLMF

Lamp Lumens 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 | 3 |
| B13 | 4 |
| B16 | 5 |
| B20 | 6 |
| C10 | 5 |
| C13 | 6 |
| C16 | 8 |
| C20 | 10 |

