

# BETO circle 1600 direct / indirect power

suspended

074-7444638B



Project / Type \_\_\_\_\_

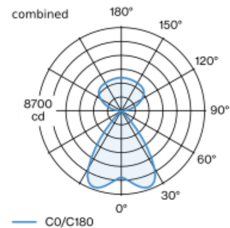
Notes \_\_\_\_\_

Count / Date \_\_\_\_\_

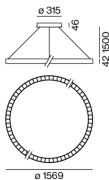


Ring-shaped light fitting in rolled and seamlessly welded extruded aluminium profile; extremely slim design (only 42 x 42 mm); suspended luminaire with 1500mm cable suspension (canopy central); with integrated tool-less suspension height adjustment; incl. transparent feed; extruded profile for improved thermal management; energy efficient LEDs with high CRI; high gloss reflector with faceted design; internal wiring in light halogen free; incl. converter, non dimmable; converter included in canopy;

## Light distribution



## Product drawing



### General

Ceiling , Suspended \_\_\_\_\_

black , RAL9005 <sup>1</sup> \_\_\_\_\_

Reflector dark chrome \_\_\_\_\_

IP20 \_\_\_\_\_

indirect 13900 lm \_\_\_\_\_

direct 10400 lm \_\_\_\_\_

total 24300 lm \_\_\_\_\_

### LED

4000 K \_\_\_\_\_

CRI ≥ 80 \_\_\_\_\_

L90 / 50000 h \_\_\_\_\_

initial MacAdam ≤ 3 SDCM \_\_\_\_\_

MR 0.72 \_\_\_\_\_

MDER 0.65 \_\_\_\_\_

### Optical

Reflector \_\_\_\_\_

Symmetric \_\_\_\_\_

UGR < 13 , ≥65° <1500 cd/m<sup>2</sup> \_\_\_\_\_

PstLM ≤ 1.0 <sup>2</sup> \_\_\_\_\_

SVM ≤ 0.4 <sup>2</sup> \_\_\_\_\_

### Electrical

DALI-2 \_\_\_\_\_

172 W \_\_\_\_\_

PC1 220-240V \_\_\_\_\_

141 lm/W \_\_\_\_\_

2 DALI Addr. \_\_\_\_\_

### Physical

diameter 1569 mm \_\_\_\_\_

height 42 mm \_\_\_\_\_

<sup>1</sup> RAL code <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	0.96	0.94	0.92	0.9
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 Faktor	

<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	3
B13	4
B16	5
B20	6
C10	5
C13	6
C16	8
C20	10

