

# BETO circle 1600 direct

suspended

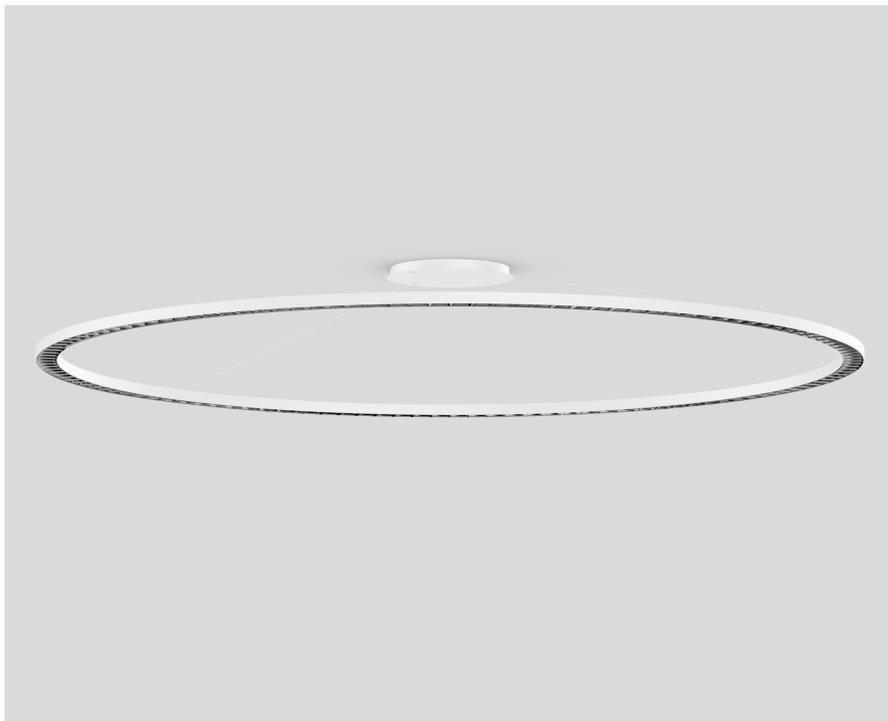
074-7404037B



Project / Type

Notes

Count / Date



## General

Ceiling | Suspended

pure white | RAL 9010 <sup>1</sup>

Reflector dark chrome

IP20

7910 lm

## LED

3000 K

CRI  $\geq$  90

L90 / 50000 h

initial MacAdam  $\leq$  3 SDCM

R<sub>g</sub>: 99 | R<sub>r</sub>: 91 | R<sub>f(15)</sub>: 89

MR 0.61 | MDER 0.55

## Optical

Reflector | symmetric

UGR  $\leq$  16 |  $\geq 65^\circ$  < 1500 cd/m<sup>2</sup>

PstLM  $\leq$  1.0<sup>2 3</sup> | SVM  $\leq$  0.4<sup>2 3</sup>

## Electrical

DALI-2 | 1 DALI Addr.

PC1 | 220-240 V

system 91 W

system 87 lm/W <sup>4</sup>

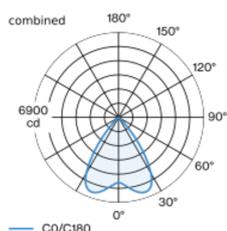
## Physical

diameter 1569 mm | height 42 mm

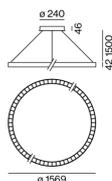
9 kg

Ring-shaped light fitting in rolled and seamlessly welded extruded aluminium profile; extremely slim design (only 42 x 42 mm); surface pure 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 3000 K; binning initial MacAdam  $\leq$  3 SDCM; CRI  $\geq$  90; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; high gloss reflector with faceted design; Reflector dark chrome; UGR  $\leq$  16; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above  $65^\circ \leq 1500$  cd/m<sup>2</sup>; 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



<sup>1</sup> RAL code <sup>2</sup> combined

<sup>3</sup> Value of containing product at full load (undimmed)

<sup>4</sup> 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	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	6
B13	8
B16	10
B20	12
C10	10
C13	13
C16	16
C20	20