

# BETO direct / indirect power

suspended

074-6249D77B

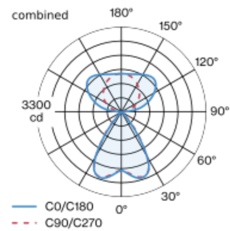


Project / Type	
Notes	
Count / Date	



Luminaire housing made of extruded aluminium profile; extremely slim design (only 42 x 42 mm); light tight final end caps made of aluminium; no visible screws; angular design; surface white powder coated; suspended luminaire with 1500mm cable suspension; with integrated toolless suspension height adjustment on the luminaire; spring clip attachment to the luminaire; freely positionable; incl. feed (white); extruded profile for improved thermal management; high gloss reflector with faceted design; Reflector dark chrome; direct/indirect illumination characteristic; light colour: tunable white diodes (2700-6500 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; UGR  $\leq 10$ ; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above  $65^\circ \leq 1500$  cd/m<sup>2</sup>; indirect light component with integrated PC boards and high quality lens system for maximum, homogeneous ceiling illumination; degree of protection IP20; PC1; 220-240 V; internal wiring in light halogen free; incl. DALI-2 / DT8 converter; luminaire with integrated DALI-2 infrared presence and brightness sensor (DALI-2 controller required); automatic light control of luminaire to individually adjustable brightness; variable automatic shutdown; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

## Light distribution



## Product drawing



## General

Ceiling , Suspended	
white , RAL 9010 <sup>1</sup>	
Reflector dark chrome	
IP20	
indirect 5770 lm	
direct 3570 lm	
total 9340 lm	

## LED

tunable white	
2700 K - 6500 K	
CRI $\geq 90$	
L90 / 50000 h	
initial MacAdam $\leq 3$ SDCM	
R <sub>g</sub> : 101 , R <sub>r</sub> : 90 , R <sub>{1-15}</sub> : 88	
MR 0.51	
MDER 0.46	

## Optical

Reflector	
symmetric	
UGR $< 10$ , $\geq 65^\circ < 1500$ cd/m <sup>2</sup>	
PstLM $\leq 1.0^{2,3}$	
SVM $\leq 0.4^{2,3}$	

## Electrical

DALI-2 DT8 sensor	
220-240 V	
system 92 W	
system 102 lm/W <sup>4</sup>	
PC1	
2 DALI Addr.	

## Physical

length 3057 mm	
width 42 mm	
height 42 mm	
4.5 kg	

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

## 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

MF

Maintenance Factor

LMF<sup>a</sup>

Luminaire Maintenance Factor

RSMF<sup>a</sup>

Room Surface Maintenance Factor

LLMF

Lamp Lumens 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	4
B13	6
B16	7
B20	9
C10	7
C13	10
C16	12
C20	16

