

BETO direct / indirect power

suspended

074-6249147B



Project / Type

Notes

Count / Date



General

Ceiling | Suspended

pure white | RAL 9010

Reflector dark chrome

IP20

indirect 6410 lm | direct 3240 lm

total 9650 lm

5370 lm/m

LED

4000 K

CRI ≥ 90

L90 / 50000 h

initial MacAdam ≤ 3 SDCM

R_g: 99 | R_r: 92 | R_{t(1-15)}: 90

MR 0.81 | MDER 0.74

Optical

Reflector | symmetric

UGR ≤ 10 | ≥65° <1500 cd/m²

PstLM ≤ 1.0^{1 2 3} | SVM ≤ 0.4^{1 2 3}

Electrical

DALI-2 D/I separately controllable | 2 DALI Addr.

PC1 | 220-240 V

system 86 W

system 112 lm/W⁴

48 W/m

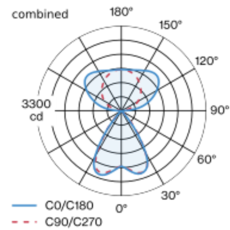
Physical

length 3057 mm | width 42 mm | height 42 mm

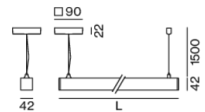
5.3 kg

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 pure 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 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; UGR ≤ 10; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° ≤ 1500 cd/m²; 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; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Light distribution



Product drawing



¹ combined ² segment
³ Value of containing product at full load (undimmed)
⁴ 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^a

Luminaire Maintenance Factor

RSMF^a

Room Surface Maintenance Factor

LLMF

Lamp Lumens Maintenance Factor

LSF

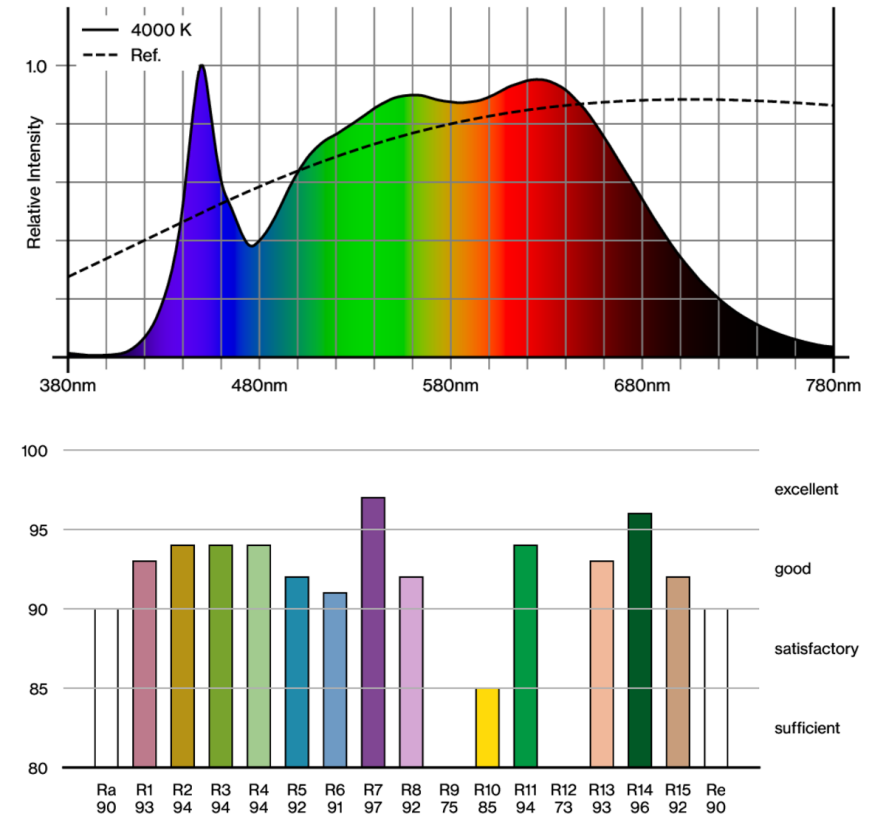
Lamp Survival Factor

^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	4
B13	6
B16	7
B20	9
C10	7
C13	10
C16	11
C20	15

Colour rendering



TM30 colour vector graphic



The black line represents the black body reference. The red line indicates the results of the test light source. The deviation from the test light source to the reference is shown and is marked by arrows. The shorter the arrows, the higher the color rendering.

