

# BETO sensor direct / indirect power

free standing double  
X074-6950178R



Project / Type

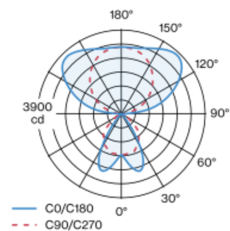
Notes

Count / Date

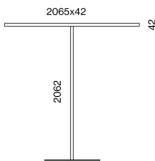


Free standing luminaire from extruded aluminium profile in angular design; two separate luminaire heads; extremely slim design (only 42 x 42 mm); square downpipe; pedestal with recess for table base; surface black powder coated; direct/indirect illumination characteristic; direct light component with high gloss reflector + faceted design and asymmetric radiation characteristic; Reflector chrome; indirect light component with integrated PC boards and high quality lens system for maximum, homogeneous ceiling illumination;  $UGR \leq 16$ ; light colour 4000 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; degree of protection IP20; PC1; 220-240 V; luminaire with integrated infrared presence and brightness sensor (ESSENTIAL sensor); automatic light control for individually adjustable brightness; variable automatic shutdown; including TOUCH DIM control for individual control of the brightness; presence sensor detection range  $\varnothing 4,5m$  on the floor; incl. connection cable (3m) with safety plug; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

## Light distribution



## Product drawing



## General

Floor , Standing

black , RAL 9005 <sup>1</sup>

Reflector chrome

IP20

indirect 12400 lm

direct 3780 lm

total 16180 lm

## LED

4000 K

$CRI \geq 90$

L90 / 50000 h

initial MacAdam  $\leq 3$  SDCM

$R_g: 99 , R_r: 92 , R_{t-15}: 90$

MR 0.81

MDER 0.74

## Optical

Reflector

asymmetric

$UGR \leq 16$

$P_{stLM} \leq 1.0^2$

$SVM \leq 0.4^2$

## Electrical

ESSENTIAL sensor (brightness & presence)

220-240 V

system 132 W

system 123 lm/W<sup>3</sup>

PC1

## Physical

H-shape

length 2065 mm

width 42 mm

height 2104 mm

14 kg

<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)  
<sup>3</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

MF

LMF<sup>a</sup>

LMF × RSMF × LLMF × LSF

Maintenance Factor

Luminaire Maintenance Factor

RSMF<sup>a</sup>

LLMF

LSF

Room Surface Maintenance Factor

Lamp Lumens Maintenance Factor

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	13
C10	10
C13	14
C16	17
C20	21

