

# MINIMAL 100 high lumen

trimless

052-33M4637H



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

Notes \_\_\_\_\_

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



RG0 IEC 62471 \_\_\_\_\_

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

X-PERT \_\_\_\_\_

X-PERT \_\_\_\_\_

## General

Ceiling , Recessed \_\_\_\_\_

white , RAL9016 <sup>1</sup> \_\_\_\_\_

3020 lm/m \_\_\_\_\_

IP20 \_\_\_\_\_

3540 lm \_\_\_\_\_

## LED

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

CRI ≥ 80 \_\_\_\_\_

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

photobio. safety RG 0 - no Risk \_\_\_\_\_

initial MacAdam ≤ 3 SDCM \_\_\_\_\_

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

MDER 0.66 \_\_\_\_\_

## Optical

High Performance Opal \_\_\_\_\_

opal (lambertsch) \_\_\_\_\_

PstLM ≤ 1.0 <sup>2</sup> \_\_\_\_\_

SVM ≤ 0.4 <sup>2</sup> \_\_\_\_\_

## Electrical

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

system 27.5 W \_\_\_\_\_

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

system 129 lm/W<sup>3</sup> \_\_\_\_\_

1 DALI Addr. \_\_\_\_\_

23 W/m \_\_\_\_\_

## Physical

trimless \_\_\_\_\_

length 1176 mm \_\_\_\_\_

width 102 mm \_\_\_\_\_

height 82 mm \_\_\_\_\_

4.1 kg \_\_\_\_\_

## Cutout

length 1179 mm \_\_\_\_\_

width 106 mm \_\_\_\_\_

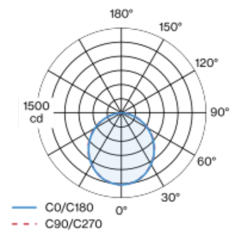
min. ceiling thickness 8 mm \_\_\_\_\_

max. ceiling thickness 25 mm \_\_\_\_\_

recessed depth 106 mm \_\_\_\_\_

Luminaire housing made of extruded aluminium profile; suitable for rimless installation in plasterboard ceilings; specially designed trim with grooves for better adhesion of smoothing compound; suitable for ceiling thickness of 8-25 mm; surface white powder coated; lighting profile (end cover and mounting bracket pre-assembled) available in advance for installation; remaining lamp components mounted without tools; LED light inset consisting of highly reflective lacquered aluminium for improved thermal management; light colour 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 80; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; HPO (High Performance Opal) cover for uniform illumination; degree of protection IP20; PC1 220-240V; photobiological safety according to IEC 62471 risk group RG 0 - no Risk; 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



<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)  
<sup>3</sup> incl. optical losses and the efficiency of the operating device (converter)

## 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	0.95	0.93	0.91	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	18
B13	23
B16	28
B20	35
C10	30
C13	38
C16	46
C20	58

## Mounting accessories

### CONCRETE INSTALLATION HOUSING

TYPE	L·W·H (MM)	ARTICLE NUMBER(S)
1235 mm	1235-116-94	036-05126

