

# MINO 60 CIRCLE 3000

## direct

ceiling

034-2114537H



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

Notes \_\_\_\_\_

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



### General

Ceiling | Surface \_\_\_\_\_

white | RAL 9010 <sup>1</sup> \_\_\_\_\_

IP20 \_\_\_\_\_

21200 lm \_\_\_\_\_

### LED

3000 K \_\_\_\_\_

CRI ≥ 80 \_\_\_\_\_

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

initial MacAdam ≤ 3 SDCM \_\_\_\_\_

MR 0.56 | MDER 0.51 \_\_\_\_\_

### Optical

High Performance Opal | opal (lambertsch) \_\_\_\_\_

PstLM ≤ 1.0<sup>2 3</sup> | SVM ≤ 0.4<sup>2 3</sup> \_\_\_\_\_

### Electrical

DALI-2 | 8 DALI Addr. \_\_\_\_\_

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

system 167 W \_\_\_\_\_

system 127 lm/W <sup>4</sup> \_\_\_\_\_

### Physical

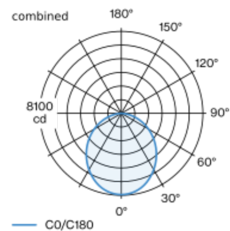
diameter 3060 mm | height 80 mm \_\_\_\_\_

centerline radius 1500 mm \_\_\_\_\_

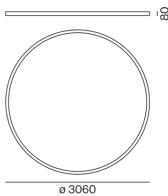
24.9 kg \_\_\_\_\_

Ring-shaped light fitting in rolled and seamlessly welded extruded aluminium profile; suitable for ceiling mounting; surface white powder coated; LED light inset consisting of highly reflective lacquered aluminium for improved thermal management; light colour 3000 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; 220-240 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



<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

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	2
B13	2
B16	3
B20	4
C10	3
C13	4
C16	5
C20	7

