

# MINO 60 S CIRCLE

## 1500 direct / indirect

suspended  
034-721153GH



Project / Type	
Notes	
Count / Date	



### General

Ceiling , Suspended	
grey , RAL 9006 <sup>1</sup>	
IP20	
indirect 5100 lm	
direct 9010 lm	
total 14110 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</sup>	
SVM ≤ 0.4 <sup>2</sup>	

### Electrical

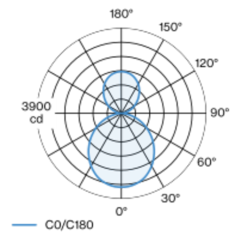
DALI-2	
220-240 V	
system 119 W	
system 119 lm/W <sup>3</sup>	
PC1	
5 DALI Addr.	

### Physical

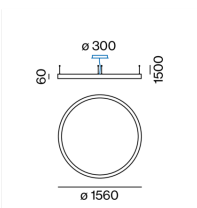
cable 1500 mm	
diameter 1560 mm	
height 60 mm	
centerline radius 750 mm	
13 kg	

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

### Light distribution



### Product drawing



### 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		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	3
B13	4
B16	5
B20	7
C10	6
C13	8
C16	10
C20	12

