

# COMBO 1200

trim

064-1081537K

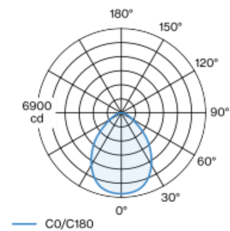


Project / Type	
Notes	
Count / Date	

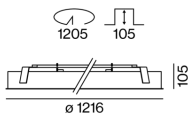


Round light fitting in aluminium; recessed light with wrap around edge; suitable for ceiling thickness of 10-25 mm; surface white powder coated; external converter for ceiling insertion, through-wiring suitable; electrical connection by means of reverse polarity protected plug system; LED board highly reflective lacquered for higher efficiency; light colour 3000 K; binning initial MacAdam  $\leq 3$  SDCM; CRI  $\geq 80$ ; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; flush ceiling light level; micro prismatic PMMA cover; absolutely homogeneous illumination by using a diffuser film on polycarbonate base; improved ratio of scattering effect to light transmission; same luminance for all size versions; UGR  $\leq 19$ ; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above  $65^\circ \leq 3000$  cd/m<sup>2</sup>; degree of protection IP40; 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



### General

Ceiling , Recessed	
white , RAL 9010 <sup>1</sup>	
IP40	
12600 lm	

### LED

3000 K	
CRI $\geq 80$	
L90 / 50000 h	
initial MacAdam $\leq 3$ SDCM	
MR 0.54	
MDER 0.49	

### Optical

Microprismatic	
microprismatic	
UGR $\leq 19$ , $\geq 65^\circ < 3000$ cd/m <sup>2</sup>	
PstLM $\leq 1.0$ <sup>2</sup>	
SVM $\leq 0.4$ <sup>2</sup>	

### Electrical

DALI-2	
220-240 V	
system 92 W	
system 137 lm/W <sup>3</sup>	
PC1	
3 DALI Addr.	

### Physical

trim	
diameter 1216 mm	
height 105 mm	
19 kg	

### Cutout

diameter 1205 mm	
min. ceiling thickness 10 mm	
max. ceiling thickness 25 mm	
recessed depth 105 mm	

<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



## 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	0.91	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 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	3
B13	4
B16	5
B20	6
C10	6
C13	8
C16	10
C20	12

## Mounting accessories

### MOUNTING RING

TYPE

for acoustic ceiling

ARTICLE NUMBER(S)

064-1906800

