

# UNICO L3basic

ceiling

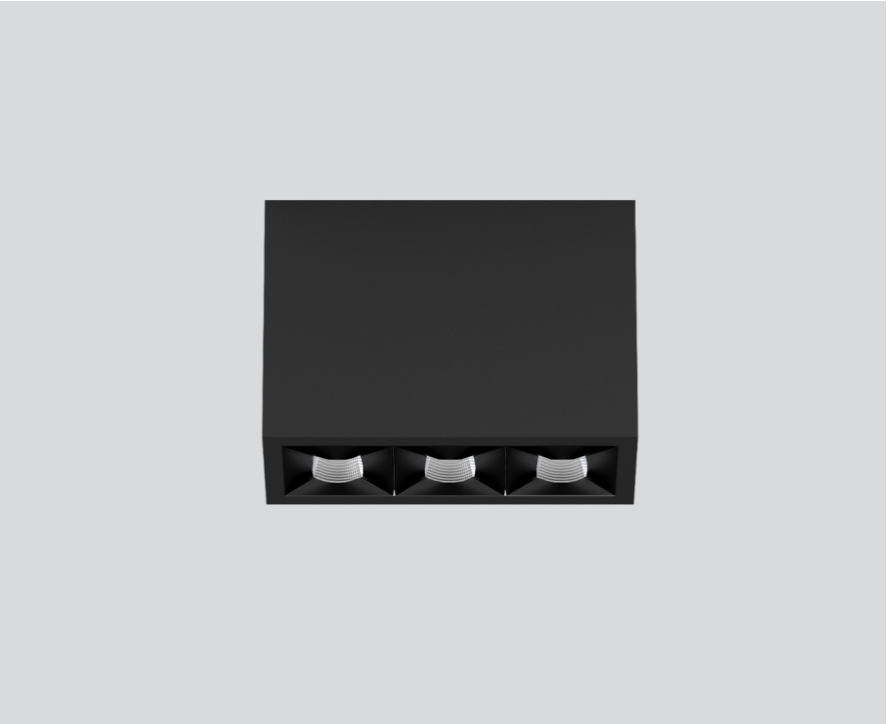
090-1L351EBB01



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

Notes \_\_\_\_\_

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



### General

Ceiling , Surface \_\_\_\_\_

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

Reflector black \_\_\_\_\_

IP20 \_\_\_\_\_

1410 lm \_\_\_\_\_

### LED

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

CRI  $\geq$  90 \_\_\_\_\_

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

initial MacAdam  $\leq$  3 SDCM \_\_\_\_\_

R<sub>g</sub>: 100 , R<sub>f</sub>: 92 , R<sub>f(1-5)</sub>: 91 \_\_\_\_\_

MR 0.64 \_\_\_\_\_

MDER 0.58 \_\_\_\_\_

### Optical

medium square \_\_\_\_\_

beam angle 32° \_\_\_\_\_

UGR  $\leq$  10 \_\_\_\_\_

PstLM  $\leq$  1.0 <sup>2</sup> \_\_\_\_\_

SVM  $\leq$  0.4 <sup>2</sup> \_\_\_\_\_

Rectangular surface mounted multi-downlight made of aluminium; luminaire housing can be attached to mounting plate without tools by interlock; converter integrated into luminaire housing; surface black powder coated; equipped with three medium square light elements; symmetrical light distribution with precise radiation characteristic, beam angle 32°; high quality reflector with micro-faceted, aluminum-vaporised surface; Reflector black; UGR  $\leq$  10; passive cooling of the LEDs through improved heat sink geometry; light colour 3000 K; binning initial MacAdam  $\leq$  3 SDCM; CRI  $\geq$  90; min. 90% of luminous flux after 50000 operating hours; energy-efficient high power LEDs with very good colour rendering; degree of protection IP20; PC1; 220-240 V; incl. converter, non dimmable; light source not replaceable; control gear replaceable by an authorized professional; clank-free;

### Electrical

non DIM \_\_\_\_\_

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

system 17.9 W \_\_\_\_\_

system 79 lm/W<sup>3</sup> \_\_\_\_\_

PC1 \_\_\_\_\_

### Physical

length 126 mm \_\_\_\_\_

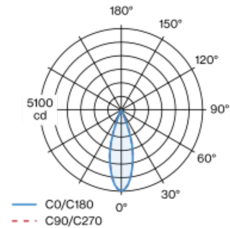
width 51 mm \_\_\_\_\_

height 90 mm \_\_\_\_\_

0.45 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

### 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	0.96	0.95	0.95	0.94	0.93
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	42
B16	68
B20	85
C10	57
C16	91
C20	114

