

# UNICO Q1 basic high efficient

ceiling  
090-1Q191FWB11



Project / Type

Notes

Count / Date

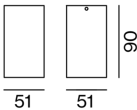


Square surface mounted multi-downlight made of aluminium; luminaire housing can be attached to mounting plate without tools by interlock; converter integrated into luminaire housing; surface white powder coated; equipped with a flood square light element; symmetrical light distribution with precise radiation characteristic, beam angle 54°; high quality reflector with micro-faceted, aluminum-vaporised surface; Reflector black; passive cooling of the LEDs through improved heat sink geometry; light colour 2700 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 85% 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;

## Light distribution



## Product drawing



## General

Ceiling | Surface

white | RAL 9016 <sup>1</sup>

Reflector black

IP20

661 lm

## LED

2700 K

CRI ≥ 90

L85 / 50000 h

initial MacAdam ≤ 3 SDCM

R<sub>g</sub>: 101 | R<sub>f</sub>: 90 | R<sub>t(1-15)</sub>: 88

MR 0.51 | MDER 0.46

## Optical

flood square | beam angle 54°

## Electrical

non DIM

PC1 | 220-240 V

system 6.2 W

system 107 lm/W <sup>2</sup>

## Physical

length 51 mm | width 51 mm | height 90 mm

<sup>1</sup> RAL code  
<sup>2</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	0.982	0.954	0.926	0.899	0.873
LSF	1	1	1	1	1
MF	$LMF \times RSMF \times LLMF \times LSF$				
MF	Maintenance Factor				
LMF <sup>a</sup>	Luminaire Maintenance Factor				
			RSMF <sup>a</sup>	Room Surface Maintenance Factor	
			LLMF	Lamp Lumens 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
B16	30
C16	48

