

UNICO Q9 basic

ceiling

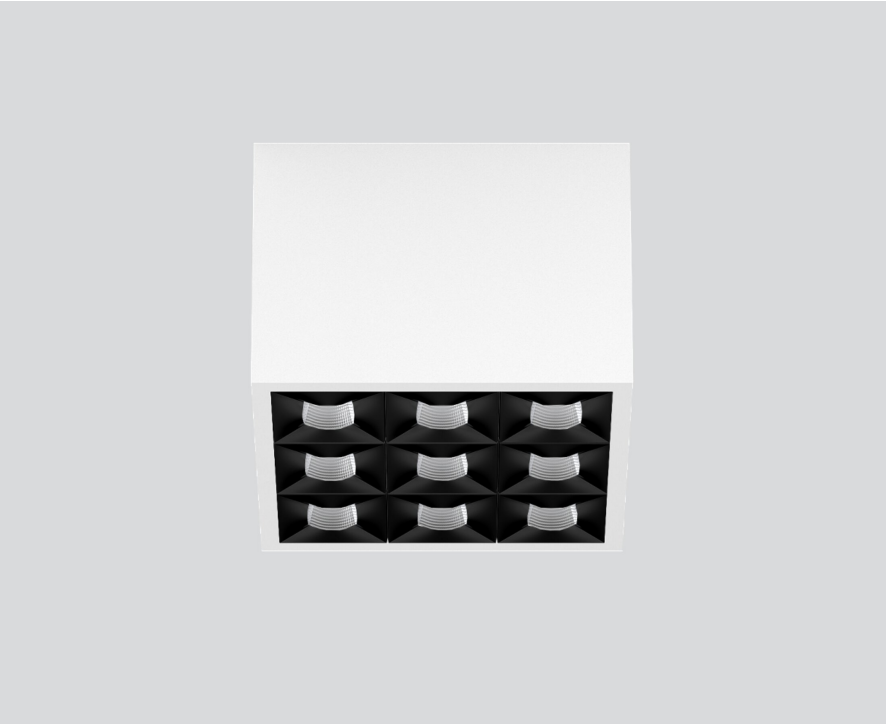
090-1Q953EWB01



Project / Type

Notes

Count / Date

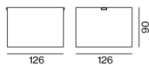


Square surface mounted multi-downlight made of aluminium; luminaire housing can be attached to mounting plate without tools by interlock; converter integrated into luminaire housing; surface traffic white powder coated; equipped with nine medium square light elements; symmetrical light distribution with precise radiation characteristic, beam angle 32°; high quality reflector with micro-faceted, aluminum-vaporised surface; Reflector black; $UGR \leq 10$; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° $\leq 3000 \text{ cd/m}^2$; passive cooling of the LEDs through improved heat sink geometry; light colour 3000 K; binning initial MacAdam $\leq 3 \text{ SDCM}$; $CRI \geq 90$; 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. DALI-2 converter; light source not replaceable; control gear replaceable by an authorized professional; clank-free;

Light distribution



Product drawing



General

Ceiling | Surface

traffic white | RAL 9016

Reflector black

IP20

2920 lm

LED

3000 K

$CRI \geq 90$

L90 / 50000 h

initial MacAdam $\leq 3 \text{ SDCM}$

$R_g: 100$ | $R_f: 92$ | $R_{f(1-15)}: 91$

MR 0.64 | MDER 0.58

Optical

medium square | beam angle 32°

$UGR \leq 10$ | $\geq 65^\circ < 3000 \text{ cd/m}^2$

$PstLM \leq 1.0$ ¹ | $SVM \leq 0.4$ ¹

Electrical

DALI-2 | 1 DALI Addr.

PC1 | 220-240 V

system 34 W

system 86 lm/W ²

Physical

length 126 mm | width 126 mm | height 90 mm

0.75 kg

¹ Value of containing product at full load (undimmed)
² 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	0.96	0.95	0.95	0.94	0.93
LSF	1	1	1	1	1

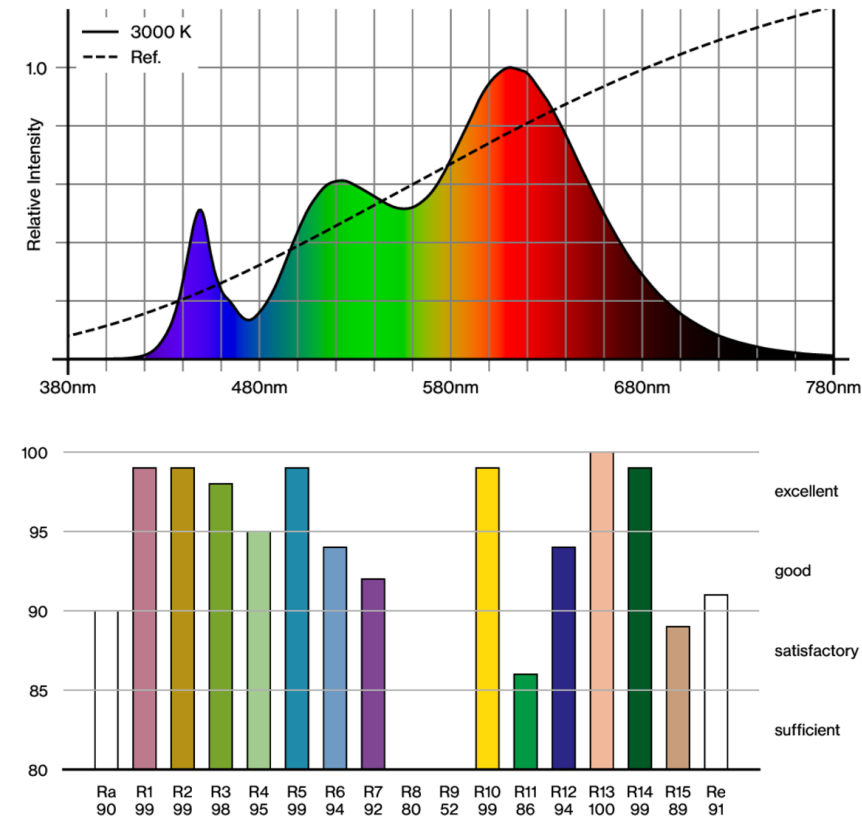
MF	LMF × RSMF × LLMF × LSF	RSMF ^a	Room Surface Maintenance Factor
MF	Maintenance Factor	LLMF	Lamp Lumens Maintenance Factor
LMF ^a	Luminaire Maintenance Factor	LSF	Lamp Survival Factor

^a 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.

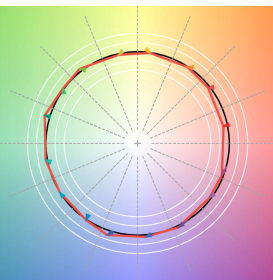
Circuit Breaker Types

Automatic Circuit Breaker Type	Number of Fixtures
B10	45
B13	59
B16	72
B20	90
C10	77
C13	100
C16	122
C20	153

Colour rendering



TM30 colour vector graphic



The black line represents the black body reference. The red line indicates the results of the test light source. The deviation from the test light source to the reference is shown and is marked by arrows. The shorter the arrows, the higher the color rendering.

