

UNICO Q9 basic high efficient

trim

090-7Q911G0031 090-7Q9020W



Project / Type

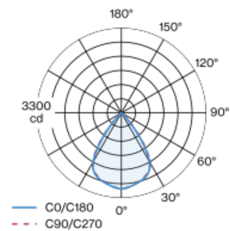
Notes

Count / Date

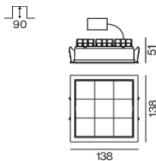


Square recessed multi-downlight made of die-cast aluminium; installation without tools in mounting set due to patented ball catch system; square installation housing; with trim traffic white; suitable for ceiling thickness of 2-25 mm; equipped with nine wide flood square light elements; symmetrical light distribution with precise radiation characteristic, beam angle 71°; high quality reflector with micro-faceted, aluminum-vaporised surface; chrome reflector; passive cooling of the LEDs through improved heat sink geometry; light colour 4000 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; PC2; 220-240 V; incl. converter, non dimmable; through wiring connection box, 3-pole or 5-pole, available as an accessory; accessories are listed separately; light source not replaceable; control gear replaceable by an authorized professional; clank-free;

Light distribution



Product drawing



General

Ceiling | Recessed
chrome reflector
Mounting set traffic white
IP20
3600 lm

LED

4000 K
CRI ≥ 90
L85 / 50000 h
initial MacAdam ≤ 3 SDCM
 $R_g: 99$ | $R_f: 92$ | $R_{f(1-15)}: 90$
MR 0.81 | MDER 0.74

Optical

wide flood square | beam angle 71°
 $\geq 65^\circ$ <3000 cd/m²
PstLM ≤ 1.0 ¹ | SVM ≤ 0.4 ¹

Electrical

non DIM
PC2 | 220-240 V
system 24.8 W
system 145 lm/W²

Physical

trim
length 138 mm | width 138 mm | height 51 mm
0.71 kg

Cutout

length 130 mm | width 130 mm
min. ceiling thickness 2 mm | max. ceiling thickness 25 mm
recessed depth 90 mm

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 | 0.982 | 0.954 | 0.926 | 0.899 | 0.873 |
| 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 | 16 |
| B16 | 26 |
| C10 | 27 |
| C16 | 43 |

Components

MOUNTING SET with trim

| | | | |
|---------------------------|---------------|------------|-------------------|
| TYPE | COLOUR | L·W·H (MM) | ARTICLE NUMBER(S) |
| for intermediate ceilings | traffic white | 138-138-30 | 090-7Q9020W |



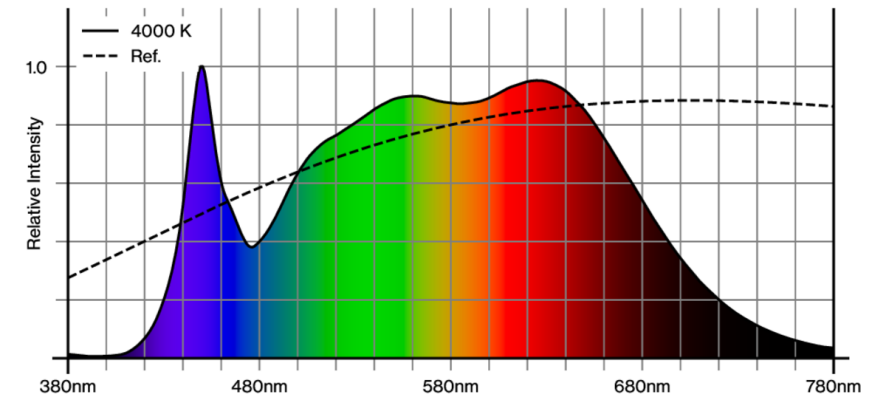
Mounting accessories

THROUGH WIRING CONNECTION BOX

| | | |
|---------------------------|------------|-------------------|
| TYPE | L·W·H (MM) | ARTICLE NUMBER(S) |
| non DIM cable ø 4 – 12 mm | 105-58-30 | 005-2531110 |
| DALI cable ø 4 – 12 mm | 105-58-30 | 005-2551110 |



Colour rendering



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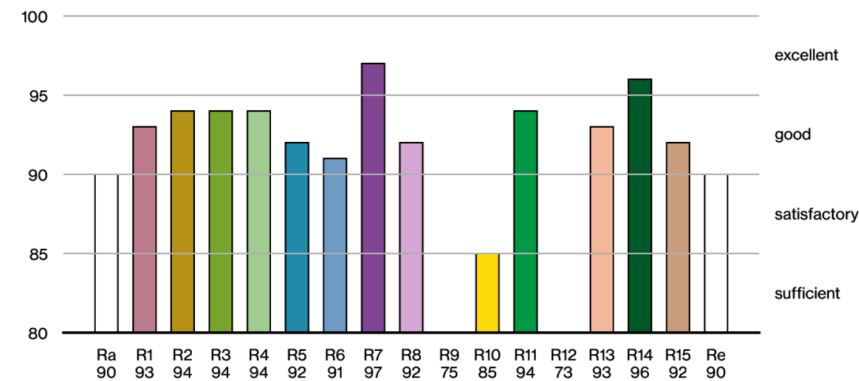


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CRI/R_a ≥ 93 R_e ≥ 90 (4000 K)



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.

