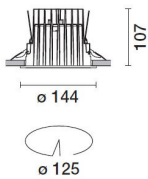


Last information update: April 2024

Product configuration: Q968

Q968: Fixed circular recessed luminaire - Ø125 mm - warm white - wide flood optic - UGR<19

**Product code**

Q968: Fixed circular recessed luminaire - Ø125 mm - warm white - wide flood optic - UGR<19

Technical description

Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone CRI 90 (2700K). General light emission, with controlled luminance $UGR < 19$ 1500 cd/m^2 $\alpha > 65^\circ$ wide flood optic.

Installation

Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 20 mm.

Weight (Kg)

1.02

Mounting

ceiling recessed

Wiring

product complete with DALI components

Complies with EN60598-1 and pertinent regulations



IP20

IP54

**Technical data**

| | | | |
|--|------|--|--|
| lm system: | 1700 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| W system: | 19.1 | Lamp code: | LED |
| lm source: | 2100 | Number of lamps for optical assembly: | 1 |
| W source: | 17 | ZVEI Code: | LED |
| Luminous efficiency (lm/W, real value): | 89 | Number of optical assemblies: | 1 |
| lm in emergency mode: | - | Power factor: | See installation instructions |
| Total light flux at or above an angle of 90° [Lm]: | 0 | Inrush current: | 16 A / 220 µs |
| Light Output Ratio (L.O.R.) [%]: | 81 | Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 15 luminaires B16A: 24 luminaires C10A: 24 luminaires C16A: 40 luminaires |
| Beam angle [°]: | 64° | Overvoltage protection: | 2kV Common mode & 1kV Differential mode |
| CRI (minimum): | 90 | Dimming mode: | PWM |
| Colour temperature [K]: | 2700 | Control: | DALI |
| MacAdam Step: | 2 | | |

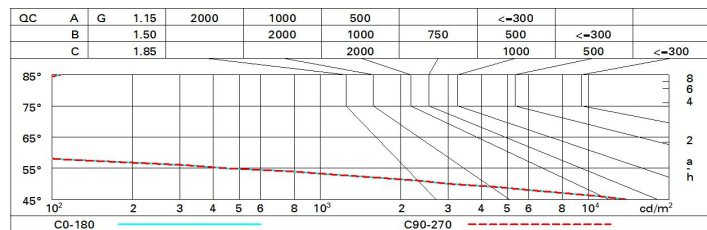
Polar

| Imax=1686 cd | | CIE nL 0.81 96-100-100-100-81 UGR 18.2-18.2 DIN A.61 UTE 0.81A+0.00T F*1=961 F*1+F*2=1000 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65° UGR<19 L<1500 cd/mq @65° | Lux | | | |
|---------------------|--|--|-----|-----|-----|------|
| | | | h | d | Em | Emax |
| | | | 2 | 2.5 | 322 | 421 |
| | | | 4 | 5 | 81 | 105 |
| | | | 6 | 7.5 | 36 | 47 |
| $\alpha = 64^\circ$ | | | 8 | 10 | 20 | 26 |

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 72 | 68 | 65 | 63 | 67 | 64 | 64 | 61 | 76 |
| 1.0 | 75 | 72 | 69 | 67 | 71 | 68 | 68 | 65 | 81 |
| 1.5 | 79 | 77 | 74 | 73 | 76 | 74 | 73 | 70 | 87 |
| 2.0 | 82 | 80 | 78 | 77 | 79 | 77 | 77 | 74 | 92 |
| 2.5 | 84 | 82 | 81 | 80 | 81 | 80 | 79 | 77 | 95 |
| 3.0 | 85 | 84 | 83 | 82 | 82 | 81 | 80 | 78 | 97 |
| 4.0 | 86 | 85 | 84 | 84 | 83 | 83 | 82 | 80 | 98 |
| 5.0 | 86 | 86 | 85 | 85 | 84 | 84 | 82 | 80 | 99 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 2100 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.: ceiling/cav walls work pl. Room dim x y | | viewed crosswise | | | | | viewed endwise | | | | |
| 2H | 2H | 18.8 | 19.4 | 19.0 | 19.6 | 19.8 | 18.8 | 19.4 | 19.0 | 19.6 | 19.8 |
| | 3H | 18.6 | 19.2 | 18.9 | 19.4 | 19.7 | 18.6 | 19.2 | 18.9 | 19.4 | 19.7 |
| | 4H | 18.6 | 19.1 | 18.9 | 19.3 | 19.6 | 18.6 | 19.1 | 18.9 | 19.3 | 19.6 |
| | 6H | 18.5 | 18.9 | 18.8 | 19.2 | 19.6 | 18.5 | 18.9 | 18.8 | 19.2 | 19.6 |
| | 8H | 18.4 | 18.9 | 18.8 | 19.2 | 19.5 | 18.4 | 18.9 | 18.8 | 19.2 | 19.5 |
| | 12H | 18.4 | 18.8 | 18.8 | 19.2 | 19.5 | 18.4 | 18.8 | 18.8 | 19.2 | 19.5 |
| 4H | 2H | 18.6 | 19.1 | 18.9 | 19.3 | 19.6 | 18.6 | 19.1 | 18.9 | 19.3 | 19.6 |
| | 3H | 18.4 | 18.8 | 18.8 | 19.2 | 19.5 | 18.4 | 18.8 | 18.8 | 19.2 | 19.5 |
| | 4H | 18.3 | 18.7 | 18.7 | 19.0 | 19.4 | 18.3 | 18.7 | 18.7 | 19.0 | 19.4 |
| | 6H | 18.2 | 18.5 | 18.7 | 18.9 | 19.4 | 18.2 | 18.5 | 18.7 | 18.9 | 19.4 |
| | 8H | 18.2 | 18.5 | 18.6 | 18.9 | 19.3 | 18.2 | 18.5 | 18.6 | 18.9 | 19.3 |
| | 12H | 18.1 | 18.4 | 18.6 | 18.8 | 19.3 | 18.1 | 18.4 | 18.6 | 18.8 | 19.3 |
| 8H | 4H | 18.2 | 18.5 | 18.6 | 18.9 | 19.3 | 18.2 | 18.5 | 18.6 | 18.9 | 19.3 |
| | 6H | 18.1 | 18.3 | 18.6 | 18.8 | 19.2 | 18.1 | 18.3 | 18.6 | 18.8 | 19.2 |
| | 8H | 18.0 | 18.2 | 18.5 | 18.7 | 19.2 | 18.0 | 18.2 | 18.5 | 18.7 | 19.2 |
| | 12H | 18.0 | 18.2 | 18.5 | 18.6 | 19.2 | 18.0 | 18.2 | 18.5 | 18.6 | 19.2 |
| 12H | 4H | 18.1 | 18.4 | 18.6 | 18.8 | 19.3 | 18.1 | 18.4 | 18.6 | 18.8 | 19.3 |
| | 6H | 18.0 | 18.2 | 18.5 | 18.7 | 19.2 | 18.0 | 18.2 | 18.5 | 18.7 | 19.2 |
| | 8H | 18.0 | 18.2 | 18.5 | 18.6 | 19.2 | 18.0 | 18.2 | 18.5 | 18.6 | 19.2 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 4.7 / -26.2 | | | | | 4.7 / -26.2 | | | | |
| | 1.5H | 7.5 / -31.2 | | | | | 7.5 / -31.2 | | | | |
| | 2.0H | 9.5 / -31.4 | | | | | 9.5 / -31.4 | | | | |