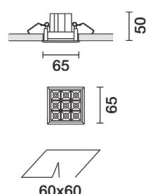
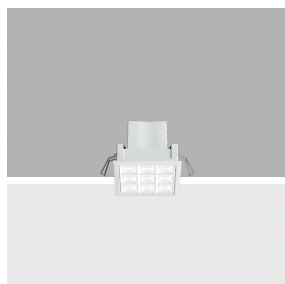


Last information update: May 2018

**Frame recessed luminaire - 9 cells - General Lighting Pro - DALI****Product code**

Q951

Technical description

Square recessed miniaturised luminaire with 9 optical elements for LED sources - fixed optics with metallised thermoplastic high definition Opti-Beam reflectors, integrated in a set-back position in the anti-glare screen. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. Despite the ultracompact size of the product, the combination of a total white finish and the patented technology of the optic system guarantees an even and efficient luminous flux optimised by a special diffuser screen that reduces direct glare significantly. Supplied with DALI dimmable electronic power supply connected to the luminaire.

Installation

Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 60 x 60.

Dimension (mm)

65x65x50

Colour

White (01)

Weight (Kg)

0.3

Mounting

wall recessed|ceiling recessed

Wiring

On power supply; quick-coupling connection

Complies with EN60598-1 and pertinent regulations

IP20 IP23

**Product configuration: Q951****Product characteristics**

Total lighting output [Lm]: 862
 Total power [W]: 17.8
 Luminous efficacy [Lm/W]: 48.5
 Life Time: > 50,000h - L80 - B10 (Ta 25°C)

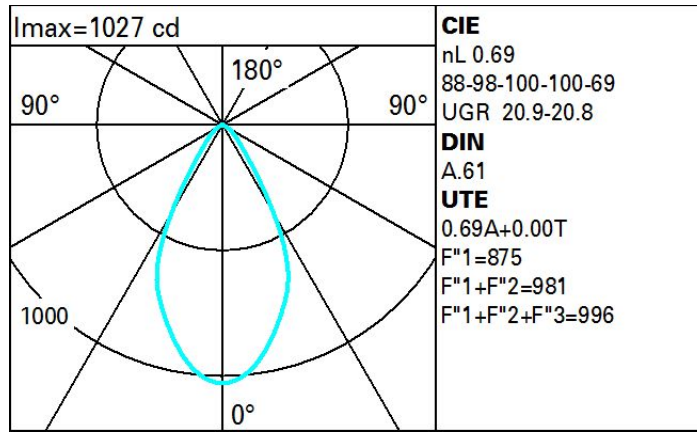
Total luminous flux at or above an angle of 90° [Lm]: 0
 Emergency luminous flux [Lm]: /
 Voltage [V]: -
 Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 69
 Lamp code: LED
 ZVEI Code: LED
 Nominal power [W]: 15
 Nominal luminous [Lm]: 1250
 Lamp maximum intensity [cd]: /
 Beam angle [°]: /

Number of lamps for optical assembly: 1
 Socket: /
 Ballast losses [W]: 2.8
 Colour temperature [K]: 3000
 CRI: 90
 Wavelength [Nm]: /
 MacAdam Step: 3

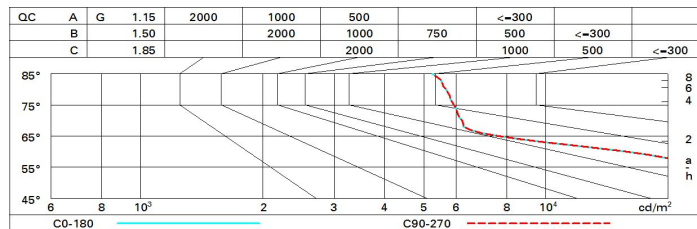
Polar



Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 58 | 54 | 51 | 49 | 53 | 51 | 50 | 48 | 69 |
| 1.0 | 62 | 58 | 55 | 53 | 57 | 55 | 54 | 52 | 75 |
| 1.5 | 66 | 63 | 61 | 59 | 62 | 60 | 60 | 57 | 83 |
| 2.0 | 69 | 66 | 65 | 63 | 65 | 64 | 63 | 61 | 88 |
| 2.5 | 70 | 68 | 67 | 66 | 67 | 66 | 65 | 63 | 92 |
| 3.0 | 71 | 70 | 69 | 68 | 69 | 68 | 67 | 65 | 94 |
| 4.0 | 72 | 71 | 70 | 70 | 70 | 69 | 68 | 66 | 96 |
| 5.0 | 73 | 72 | 71 | 71 | 71 | 70 | 69 | 67 | 97 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 1250 lm bare lamp luminous flux) | | | | | | | | | | | |
|---|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Reflect.: | | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
| ceiling/cav | | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
| walls | | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 |
| work pl. | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Room dim | | viewed crosswise | | | | | viewed endwise | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 20.9 | 21.6 | 21.2 | 21.9 | 22.1 | 20.9 | 21.6 | 21.2 | 21.9 | 22.1 |
| | 3H | 20.9 | 21.5 | 21.2 | 21.8 | 22.1 | 20.9 | 21.6 | 21.2 | 21.8 | 22.1 |
| | 4H | 20.9 | 21.5 | 21.2 | 21.8 | 22.1 | 20.9 | 21.5 | 21.2 | 21.8 | 22.1 |
| | 6H | 20.8 | 21.4 | 21.2 | 21.7 | 22.1 | 20.8 | 21.4 | 21.1 | 21.7 | 22.0 |
| | 8H | 20.8 | 21.4 | 21.2 | 21.7 | 22.0 | 20.8 | 21.3 | 21.1 | 21.6 | 22.0 |
| | 12H | 20.8 | 21.3 | 21.2 | 21.7 | 22.0 | 20.7 | 21.2 | 21.1 | 21.6 | 21.9 |
| 4H | 2H | 20.9 | 21.5 | 21.2 | 21.8 | 22.1 | 20.9 | 21.5 | 21.2 | 21.8 | 22.1 |
| | 3H | 20.9 | 21.4 | 21.2 | 21.7 | 22.1 | 20.9 | 21.4 | 21.3 | 21.8 | 22.1 |
| | 4H | 20.9 | 21.3 | 21.3 | 21.7 | 22.1 | 20.9 | 21.3 | 21.3 | 21.7 | 22.1 |
| | 6H | 20.9 | 21.3 | 21.3 | 21.7 | 22.1 | 20.8 | 21.2 | 21.3 | 21.6 | 22.0 |
| | 8H | 20.9 | 21.3 | 21.3 | 21.7 | 22.1 | 20.8 | 21.2 | 21.2 | 21.6 | 22.0 |
| | 12H | 20.9 | 21.2 | 21.3 | 21.6 | 22.1 | 20.8 | 21.1 | 21.2 | 21.5 | 22.0 |
| 8H | 4H | 20.8 | 21.2 | 21.2 | 21.6 | 22.0 | 20.9 | 21.3 | 21.3 | 21.7 | 22.1 |
| | 6H | 20.8 | 21.1 | 21.3 | 21.6 | 22.1 | 20.9 | 21.2 | 21.3 | 21.6 | 22.1 |
| | 8H | 20.9 | 21.1 | 21.3 | 21.6 | 22.1 | 20.9 | 21.1 | 21.3 | 21.6 | 22.1 |
| | 12H | 20.9 | 21.1 | 21.4 | 21.6 | 22.1 | 20.8 | 21.1 | 21.3 | 21.5 | 22.1 |
| 12H | 4H | 20.8 | 21.1 | 21.2 | 21.5 | 22.0 | 20.9 | 21.2 | 21.3 | 21.6 | 22.1 |
| | 6H | 20.8 | 21.1 | 21.3 | 21.5 | 22.0 | 20.9 | 21.1 | 21.4 | 21.6 | 22.1 |
| | 8H | 20.8 | 21.1 | 21.3 | 21.5 | 22.1 | 20.9 | 21.1 | 21.4 | 21.6 | 22.1 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | | 2.3 | / | -2.1 | | | | 2.3 | / | -2.1 |
| | 1.5H | | 4.4 | / | -4.5 | | | | 4.4 | / | -4.5 |
| | 2.0H | | 6.2 | / | -5.8 | | | | 6.2 | / | -5.8 |