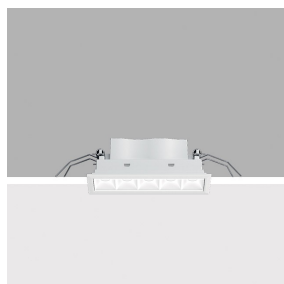


Last information update: May 2018



**Recessed Frame luminaire - 5 cells - General Lighting Pro**

**Product code**

Q945

**Technical description**

Rectangular recessed miniaturised luminaire with 5 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 an electronic power supply connected to the luminaire.

**Installation**

Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 24 x 96.

**Dimension (mm)**

100x28x50

**Colour**

White (01)

**Weight (Kg)**

0.35

**Mounting**

wall recessed|ceiling recessed

**Wiring**

On power supply; terminal block with screw connection included.

Complies with EN60598-1 and pertinent regulations

IP20 IP23



**Product configuration: Q945**

**Product characteristics**

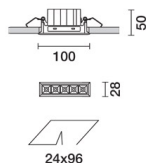
Total lighting output [Lm]: 545  
 Total power [W]: 12.4  
 Luminous efficacy [Lm/W]: 44  
 Life Time: > 50,000h - L80 - B10 (Ta 25°C)

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

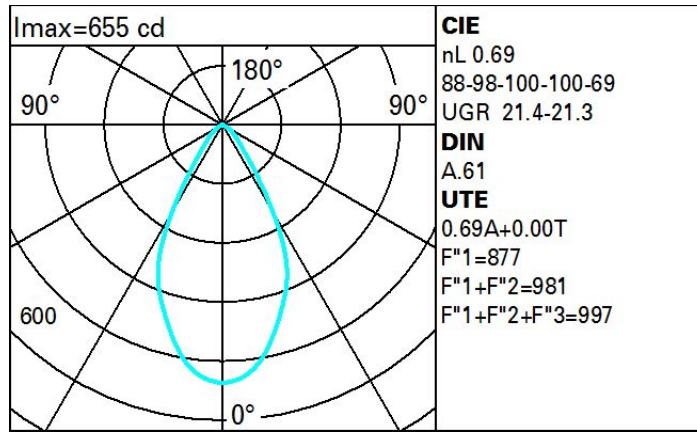
**Optical assembly Characteristics Type 1**

Light Output Ratio (L.O.R.) [%]: 69  
 Lamp code: LED  
 ZVEI Code: LED  
 Nominal power [W]: 9.8  
 Nominal luminous [Lm]: 790  
 Lamp maximum intensity [cd]: /  
 Beam angle [°]: /

Number of lamps for optical assembly: 1  
 Socket: /  
 Ballast losses [W]: 2.6  
 Colour temperature [K]: 3000  
 CRI: 90  
 Wavelength [Nm]: /  
 MacAdam Step: 3



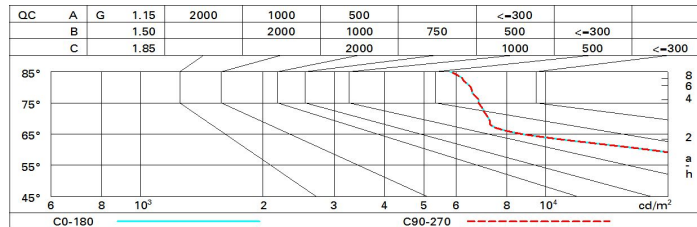
**Polar**



**Utilisation factors**

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 58 | 54 | 51 | 49 | 54 | 51 | 51 | 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 790 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   | 21.4             | 22.1       | 21.7 | 22.3 | 22.6 | 21.4           | 22.1       | 21.7 | 22.3 | 22.6 |
|  | 3H   | 21.4             | 22.0       | 21.7 | 22.3 | 22.5 | 21.5           | 22.0       | 21.8 | 22.3 | 22.6 |
|  | 4H   | 21.4             | 21.9       | 21.7 | 22.2 | 22.5 | 21.4           | 21.9       | 21.7 | 22.2 | 22.5 |
|  | 6H   | 21.4             | 21.9       | 21.7 | 22.2 | 22.5 | 21.3           | 21.8       | 21.7 | 22.1 | 22.5 |
|  | 8H   | 21.4             | 21.9       | 21.7 | 22.2 | 22.5 | 21.3           | 21.8       | 21.7 | 22.1 | 22.4 |
|  | 12H  | 21.4             | 21.8       | 21.7 | 22.2 | 22.5 | 21.3           | 21.7       | 21.6 | 22.1 | 22.4 |
| 4H   | 2H   | 21.4             | 21.9       | 21.7 | 22.2 | 22.5 | 21.4           | 21.9       | 21.7 | 22.2 | 22.5 |
|  | 3H   | 21.4             | 21.9       | 21.8 | 22.2 | 22.6 | 21.4           | 21.9       | 21.8 | 22.2 | 22.6 |
|  | 4H   | 21.4             | 21.8       | 21.8 | 22.2 | 22.6 | 21.4           | 21.8       | 21.8 | 22.2 | 22.6 |
|  | 6H   | 21.4             | 21.8       | 21.8 | 22.2 | 22.6 | 21.4           | 21.7       | 21.8 | 22.1 | 22.5 |
|  | 8H   | 21.4             | 21.7       | 21.9 | 22.1 | 22.6 | 21.3           | 21.7       | 21.8 | 22.1 | 22.5 |
|  | 12H  | 21.4             | 21.7       | 21.9 | 22.1 | 22.6 | 21.3           | 21.6       | 21.7 | 22.0 | 22.5 |
| 8H   | 4H   | 21.3             | 21.7       | 21.8 | 22.1 | 22.5 | 21.4           | 21.7       | 21.9 | 22.1 | 22.6 |
|  | 6H   | 21.4             | 21.6       | 21.8 | 22.1 | 22.6 | 21.4           | 21.7       | 21.9 | 22.1 | 22.6 |
|  | 8H   | 21.4             | 21.6       | 21.9 | 22.1 | 22.6 | 21.4           | 21.6       | 21.9 | 22.1 | 22.6 |
|  | 12H  | 21.4             | 21.6       | 21.9 | 22.1 | 22.6 | 21.4           | 21.6       | 21.9 | 22.0 | 22.6 |
| 12H  | 4H   | 21.3             | 21.6       | 21.7 | 22.0 | 22.5 | 21.4           | 21.7       | 21.9 | 22.1 | 22.6 |
|  | 6H   | 21.3             | 21.6       | 21.8 | 22.0 | 22.5 | 21.4           | 21.6       | 21.9 | 22.1 | 22.6 |
|  | 8H   | 21.4             | 21.6       | 21.9 | 22.0 | 22.6 | 21.4           | 21.6       | 21.9 | 22.1 | 22.6 |
| Variations with the observer position at spacing:        |      |                  |            |      |      |      |                |            |      |      |      |
| S =  | 1.0H |                  | 2.4 / -2.2 |      |      |      |                | 2.4 / -2.2 |      |      |      |
|  | 1.5H |                  | 4.5 / -4.7 |      |      |      |                | 4.5 / -4.7 |      |      |      |
|  | 2.0H |                  | 6.3 / -6.0 |      |      |      |                | 6.3 / -6.0 |      |      |      |