

Last information update: October 2024

**Product configuration: Q157**

Q157: Fixed circular recessed luminaire - Ø125 mm - warm white - medium optic - UGR&lt;19

**Product code**

Q157: Fixed circular recessed luminaire - Ø125 mm - warm white - medium optic - UGR&lt;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 (3000K). General light emission, with controlled luminance UGR<19 1500 cd/m<sup>2</sup> α>65° medium optic.

**Installation**

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

**Colour**

White / Aluminium (39)

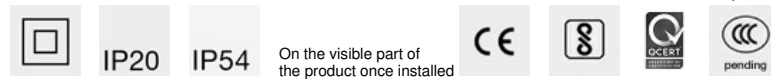
**Mounting**

ceiling recessed

**Wiring**

product complete with 1-10V components

Complies with EN60598-1 and pertinent regulations

**Technical data**

|  |       |                                       |                                 |
|--|-------|---------------------------------------|---------------------------------|
| lm system:   | 3074  | CRI (minimum):                        | 80                              |
| W system:  | 29.7  | Colour temperature [K]:               | 3000                            |
| lm source:   | 3500  | MacAdam Step:                         | 2                               |
| W source:  | 25    | Life Time LED 1:                      | > 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value):            | 103.5 | Lamp code:                            | LED                             |
| lm in emergency mode:                              | -     | Number of lamps for optical assembly: | 1                               |
| Total light flux at or above an angle of 90° [Lm]: | 0     | ZVEI Code:                            | LED                             |
| Light Output Ratio (L.O.R.) [%]:                   | 88    | Number of optical assemblies:         | 1                               |
| Beam angle [°]:                                    | 24°   | Control:                              | 1-10V                           |

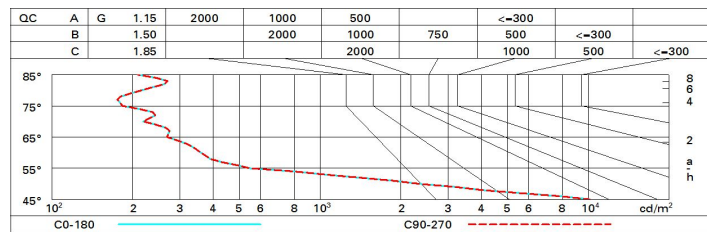
**Polar**

| Imax=8324 cd |      | CIE  |  | Lux |     |      |      |
|--------------|------|--|--|-----|-----|------|------|
| 90°          | 180° | 90°  |  | h   | d   | Em   | Emax |
|              |      | <p>nL 0.88<br/>98-100-100-100-88<br/>UGR 18.8-18.8<br/><b>DIN</b><br/>A.61<br/><b>UTE</b><br/>0.88A+0.00T<br/>F*1=97.8<br/>F*1+F*2=999<br/>F*1+F*2+F*3=1000<br/><b>CIBSE</b><br/>LG3 L&lt;1500 cd/m² at 65°<br/>UGR&lt;19   L&lt;1500 cd/mq @65°</p> |  |     |     |      |      |
|              |      |  |  | 2   | 0.9 | 1573 | 2081 |
|              |      |  |  | 4   | 1.7 | 393  | 520  |
|              |      |  |  | 6   | 2.6 | 175  | 231  |
|              |      |  |  | 8   | 3.4 | 98   | 130  |
| α = 24°      |      |  |  |     |     |      |      |

# Utilisation factors

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 79 | 74 | 71 | 69 | 74 | 71 | 70 | 68 | 77  |
| 1.0  | 82 | 78 | 76 | 73 | 77 | 75 | 75 | 72 | 82  |
| 1.5  | 86 | 84 | 81 | 79 | 83 | 81 | 80 | 77 | 88  |
| 2.0  | 89 | 87 | 85 | 84 | 86 | 84 | 83 | 81 | 92  |
| 2.5  | 91 | 89 | 88 | 87 | 88 | 87 | 86 | 84 | 95  |
| 3.0  | 92 | 91 | 90 | 89 | 89 | 89 | 88 | 85 | 97  |
| 4.0  | 93 | 92 | 92 | 91 | 91 | 90 | 89 | 87 | 99  |
| 5.0  | 94 | 93 | 93 | 92 | 92 | 91 | 90 | 88 | 100 |

# Luminance curve limit



# UGR diagram

| Corrected UGR values (at 3500 lm bare lamp luminous flux)        |     |                     |      |         |      |      |                   |      |         |      |      |
|--|-----|---------------------|------|---------|------|------|-------------------|------|---------|------|------|
| Reflect.:<br>ceiling/cav<br>walls<br>work pl.<br>Room dim<br>x y |     | viewed<br>crosswise |      |         |      |      | viewed<br>endwise |      |         |      |      |
| 2H   | 2H  | 19.4                | 20.1 | 19.7    | 20.3 | 20.5 | 19.4              | 20.1 | 19.7    | 20.3 | 20.5 |
|  | 3H  | 19.3                | 19.9 | 19.6    | 20.1 | 20.4 | 19.3              | 19.9 | 19.6    | 20.1 | 20.4 |
|  | 4H  | 19.2                | 19.8 | 19.5    | 20.0 | 20.3 | 19.2              | 19.8 | 19.5    | 20.0 | 20.3 |
|  | 6H  | 19.1                | 19.6 | 19.5    | 19.9 | 20.3 | 19.1              | 19.6 | 19.5    | 19.9 | 20.3 |
|  | 8H  | 19.1                | 19.6 | 19.5    | 19.9 | 20.2 | 19.1              | 19.6 | 19.5    | 19.9 | 20.2 |
|  | 12H | 19.1                | 19.5 | 19.4    | 19.9 | 20.2 | 19.0              | 19.5 | 19.4    | 19.9 | 20.2 |
| 4H   | 2H  | 19.2                | 19.8 | 19.5    | 20.0 | 20.3 | 19.2              | 19.8 | 19.5    | 20.0 | 20.3 |
|  | 3H  | 19.1                | 19.5 | 19.4    | 19.9 | 20.2 | 19.1              | 19.5 | 19.4    | 19.9 | 20.2 |
|  | 4H  | 19.0                | 19.4 | 19.4    | 19.7 | 20.1 | 19.0              | 19.4 | 19.4    | 19.7 | 20.1 |
|  | 6H  | 18.9                | 19.2 | 19.3    | 19.6 | 20.0 | 18.9              | 19.2 | 19.3    | 19.6 | 20.0 |
|  | 8H  | 18.8                | 19.2 | 19.3    | 19.6 | 20.0 | 18.8              | 19.2 | 19.3    | 19.6 | 20.0 |
|  | 12H | 18.8                | 19.1 | 19.2    | 19.5 | 20.0 | 18.8              | 19.1 | 19.2    | 19.5 | 20.0 |
| 8H   | 4H  | 18.8                | 19.2 | 19.3    | 19.6 | 20.0 | 18.8              | 19.2 | 19.3    | 19.6 | 20.0 |
|  | 6H  | 18.7                | 19.0 | 19.2    | 19.4 | 19.9 | 18.7              | 19.0 | 19.2    | 19.4 | 19.9 |
|  | 8H  | 18.7                | 18.9 | 19.2    | 19.4 | 19.9 | 18.7              | 18.9 | 19.2    | 19.4 | 19.9 |
|  | 12H | 18.6                | 18.8 | 19.1    | 19.3 | 19.8 | 18.6              | 18.8 | 19.1    | 19.3 | 19.8 |
| 12H  | 4H  | 18.8                | 19.1 | 19.2    | 19.5 | 20.0 | 18.8              | 19.1 | 19.2    | 19.5 | 20.0 |
|  | 6H  | 18.7                | 18.9 | 19.2    | 19.4 | 19.9 | 18.7              | 18.9 | 19.2    | 19.4 | 19.9 |
|  | 8H  | 18.6                | 18.8 | 19.1    | 19.3 | 19.8 | 18.6              | 18.8 | 19.1    | 19.3 | 19.8 |
| Variations with the observer position at spacing:                |     |                     |      |         |      |      |                   |      |         |      |      |
| S =  |     | 1.0H                | 4.4  | / -24.6 |      |      |                   | 4.4  | / -24.6 |      |      |
|  |     | 1.5H                | 7.2  | / -25.8 |      |      |                   | 7.2  | / -25.8 |      |      |
|  |     | 2.0H                | 9.2  | / -26.2 |      |      |                   | 9.2  | / -26.2 |      |      |