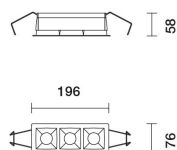
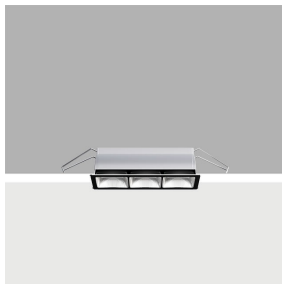


Last information update: February 2025

Product configuration: RE79.83

RE79.83: 3-cell recessed luminaire - MEDIUM beam - Tunable White - Transparent/Black

**Product code**

RE79.83: 3-cell recessed luminaire - MEDIUM beam - Tunable White - Transparent/Black

Technical description

Recessed luminaire consisting of a lamp device and a 3-cell emission raster - model with operating components to be ordered separately. Version with a medium optic - variant for light emission in Tunable White mode. Main body made of extruded aluminium - anodised finish - cast zamak end caps - natural finish. Polycarbonate LED lamp support. Steel wire fixing springs. The optical system consists of a translucent textured methacrylate raster, created with a catadioptric system (patented Opti Beam Diamond optic) - with no galvanic treatments - combined with a gloss finish PET cover. The raster includes multiple lens diaphragms for LED lamps, designed to obtain a concentrated emission, recommended for lighting environments with a fundamentally linear layout (e.g. corridors, galleries and aisles). Flows emitted in dynamic mode Tunable White 2700K - 6500K. The accessory wiring components - specific for this type of product - also include the use of several recessed luminaires with a single power supply unit.

Installation

recessed with steel wire contrast springs; slot to make in false ceiling: 63 x 183

Colour

Black Transparent (83)

Weight (Kg)

0.4

Mounting

ceiling recessed

Wiring

Drivers and wiring components are available with a separate item code. This system allows several recessed luminaires to be used (2 / 3 max) with a single power supply unit. For more detailed information, please look at the instruction sheet.

Notes

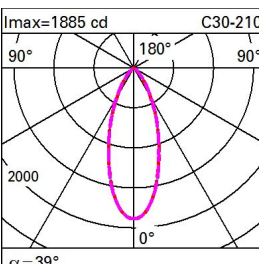
Possibility of multiple uses through the use of splitters (mandatory) and connection extensions to be ordered separately. TPA version available on request, contact iGuzzini for more info

Complies with EN60598-1 and pertinent regulations

**Technical data**

| | | | |
|--|-------|---------------------------------------|---------------------------------|
| lm system: | 1102 | CRI (minimum): | 90 |
| W system: | 9.8 | Colour temperature [K]: | Tunable white 2700 - 6500 |
| lm source: | 1450 | Life Time LED 1: | > 50,000h - L85 - B10 (Ta 25°C) |
| W source: | 9.8 | Voltage [Vin]: | 230 |
| Luminous efficiency (lm/W, real value): | 112.4 | 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]: | 12 | ZVEI Code: | LED |
| Light Output Ratio (L.O.R.) [%]: | 76 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 38° | | |

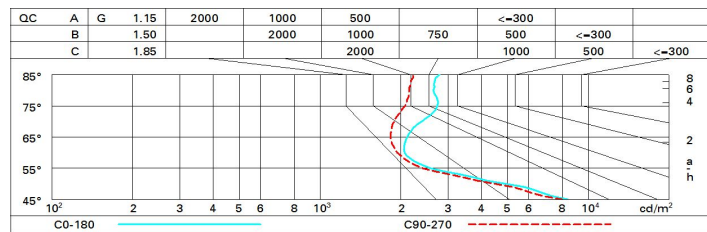
Polar

| lmax=1885 cd | | | | C30-210 | | CIE | | Lux | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|----------------|-----|--|--|-----|--|--|-----|-----|------------------|----|------------------|---|-----|-----|-----|-----|---|-----|-----|----|-----|---|-----|-----|----|----|---|-----|-----|----|----|
|  | | | | nL 0.76 | | <table><thead><tr><th>h</th><th>d1</th><th>d2</th><th>Em</th><th>E_{max}</th></tr></thead><tbody><tr><td>2</td><td>1.4</td><td>1.4</td><td>359</td><td>471</td></tr><tr><td>4</td><td>2.8</td><td>2.8</td><td>90</td><td>118</td></tr><tr><td>6</td><td>4.2</td><td>4.1</td><td>40</td><td>52</td></tr><tr><td>8</td><td>5.6</td><td>5.5</td><td>22</td><td>29</td></tr></tbody></table> | | | | | h | d1 | d2 | Em | E _{max} | 2 | 1.4 | 1.4 | 359 | 471 | 4 | 2.8 | 2.8 | 90 | 118 | 6 | 4.2 | 4.1 | 40 | 52 | 8 | 5.6 | 5.5 | 22 | 29 |
| | | | | h | d1 | | | | | | d2 | Em | E _{max} | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 2 | 1.4 | | | | | | 1.4 | 359 | 471 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 4 | 2.8 | | | | | | 2.8 | 90 | 118 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 6 | 4.2 | | | | | | 4.1 | 40 | 52 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 8 | 5.6 | | | | | | 5.5 | 22 | 29 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 90-98-99-99-76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | UGR 15.7-14.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | DIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | A.62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.75A+0.01T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F*1=901 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F*1+F*2=977 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F*1+F*2+F*3=993 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CIBSE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LG3 L<3000 cd/m² at 65° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UGR<16 L<3000 cd/mq @65° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| α=39° | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 65 | 60 | 57 | 55 | 60 | 57 | 56 | 53 | 71 |
| 1.0 | 68 | 64 | 61 | 59 | 63 | 61 | 60 | 57 | 76 |
| 1.5 | 73 | 70 | 67 | 65 | 69 | 67 | 66 | 63 | 84 |
| 2.0 | 76 | 73 | 71 | 70 | 72 | 70 | 69 | 67 | 89 |
| 2.5 | 77 | 75 | 74 | 73 | 74 | 73 | 72 | 69 | 92 |
| 3.0 | 78 | 77 | 76 | 75 | 75 | 74 | 73 | 71 | 94 |
| 4.0 | 79 | 78 | 78 | 77 | 77 | 76 | 75 | 73 | 96 |
| 5.0 | 80 | 79 | 78 | 78 | 78 | 77 | 76 | 73 | 98 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 1450 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.: ceiling/cav walls work pl. Room dim x y | | viewed crosswise | | | | | viewed endwise | | | | |
| | | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
| | | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 |
| | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| | | | | | | | | | | | |
| 2H | 2H | 14.6 | 15.3 | 14.9 | 15.5 | 15.8 | 14.5 | 15.1 | 14.8 | 15.4 | 15.7 |
| | 3H | 14.8 | 15.4 | 15.2 | 15.7 | 16.0 | 14.4 | 15.0 | 14.7 | 15.3 | 15.6 |
| | 4H | 15.0 | 15.6 | 15.4 | 15.9 | 16.2 | 14.4 | 14.9 | 14.7 | 15.2 | 15.6 |
| | 6H | 15.2 | 15.8 | 15.6 | 16.1 | 16.4 | 14.3 | 14.8 | 14.7 | 15.2 | 15.5 |
| | 8H | 15.3 | 15.8 | 15.7 | 16.2 | 16.5 | 14.3 | 14.8 | 14.7 | 15.1 | 15.5 |
| | 12H | 15.4 | 15.9 | 15.8 | 16.2 | 16.6 | 14.3 | 14.7 | 14.7 | 15.1 | 15.5 |
| | | | | | | | | | | | |
| 4H | 2H | 14.5 | 15.1 | 14.9 | 15.4 | 15.7 | 14.7 | 15.2 | 15.0 | 15.6 | 15.9 |
| | 3H | 14.8 | 15.3 | 15.2 | 15.7 | 16.0 | 14.7 | 15.2 | 15.1 | 15.6 | 15.9 |
| | 4H | 15.2 | 15.6 | 15.6 | 16.0 | 16.4 | 14.7 | 15.2 | 15.2 | 15.6 | 16.0 |
| | 6H | 15.5 | 15.9 | 16.0 | 16.3 | 16.7 | 14.8 | 15.1 | 15.2 | 15.6 | 16.0 |
| | 8H | 15.7 | 16.0 | 16.1 | 16.4 | 16.9 | 14.8 | 15.1 | 15.2 | 15.6 | 16.0 |
| | 12H | 15.8 | 16.1 | 16.3 | 16.5 | 17.0 | 14.8 | 15.1 | 15.2 | 15.5 | 16.0 |
| | | | | | | | | | | | |
| 8H | 4H | 15.2 | 15.5 | 15.6 | 15.9 | 16.4 | 15.1 | 15.5 | 15.6 | 15.9 | 16.3 |
| | 6H | 15.7 | 15.9 | 16.1 | 16.4 | 16.9 | 15.3 | 15.5 | 15.7 | 16.0 | 16.5 |
| | 8H | 15.9 | 16.1 | 16.4 | 16.6 | 17.1 | 15.3 | 15.6 | 15.8 | 16.1 | 16.6 |
| | 12H | 16.1 | 16.3 | 16.6 | 16.8 | 17.3 | 15.4 | 15.6 | 15.9 | 16.1 | 16.6 |
| | | | | | | | | | | | |
| 12H | 4H | 15.2 | 15.5 | 15.6 | 15.9 | 16.4 | 15.2 | 15.5 | 15.7 | 16.0 | 16.4 |
| | 6H | 15.7 | 15.9 | 16.2 | 16.4 | 16.9 | 15.4 | 15.6 | 15.9 | 16.1 | 16.6 |
| | 8H | 15.9 | 16.1 | 16.4 | 16.6 | 17.2 | 15.5 | 15.7 | 16.0 | 16.2 | 16.6 |
| | | | | | | | | | | | |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 1.9 / -2.0 | | | | | 2.1 / -2.3 | | | | |
| | 1.5H | 3.9 / -2.3 | | | | | 4.2 / -2.7 | | | | |
| | 2.0H | 5.6 / -2.4 | | | | | 5.9 / -2.9 | | | | |