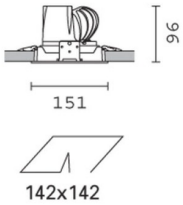
# Pixel Pro

**Design Iosa Ghini** **iGuzzini**

Last information update: May 2024

**Product configuration: MF15**
MF15: square recessed luminaire -warm white passive dissipation - integrated electronic control gear - flood




**Product code**
MF15: square recessed luminaire -warm white passive dissipation - integrated electronic control gear - flood **Attention! Code no longer in production**

**Technical description**
Recessed adjustable removable luminaire for LED lamp with passive heat dissipation system. Square sheet steel perimeter frame. Main structure made of die-cast aluminium. Steel rotation hinges. Die-cast aluminium lamp body with shaped surface for high level radiant effect for effectively reducing the temperature and keeping the long-term LED lamp performance unchanged. Chrome-plated aluminium lamp body closing ring. Reflector with high efficiency super-pure aluminium optic - flood beam angle. Body adjusted using manually operated device: internal 29° - external 75° - rotation about axis 355°. Supplied with electronic control gear connected to the luminaire. Warm white high efficiency LED.

**Installation**
recessed using steel springs for false ceilings with thicknesses starting at 1 mm; preparation slot 142 x 142 mm

**Colour**
White / Aluminium (39) | Grey / Black / Aluminium (E1)

**Mounting**
ceiling recessed

**Wiring**
on control gear box with quick-coupling connections

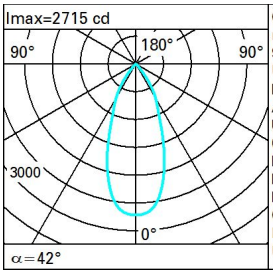
Complies with EN60598-1 and pertinent regulations

IP20

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 1578 | CRI: | 80 |
| W system: | 15.9 | Colour temperature [K]: | 3000 |
| lm source: | 2000 | MacAdam Step: | 2 |
| W source: | 13 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 99.3 | 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.) [%]: | 79 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 42° | | |

**Polar**




**CIE**
nL 0.79
97-100-100-100-79
UGR 15.3-15.3
**DIN**
A.61
**UTE**
0.79A+0.00T
F"1=968
F"1+F"2=998
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<1500 cd/m² at 65°
UGR<16 I L<1500 cd/mq @65°

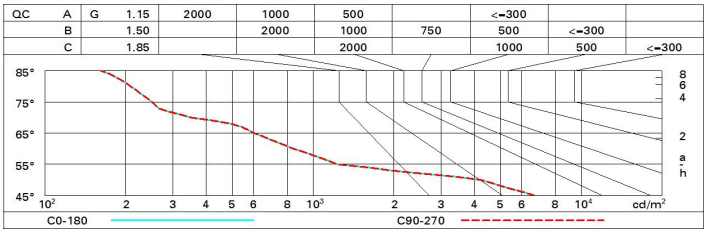
Lux

| h | d | Em | Emax |
|---|---|---|---|
| 2 | 1.5 | 526 | 679 |
| 4 | 3.1 | 132 | 170 |
| 6 | 4.6 | 58 | 75 |
| 8 | 6.1 | 33 | 42 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 70 | 66 | 64 | 61 | 66 | 63 | 63 | 60 | 76 |
| 1.0 | 73 | 70 | 67 | 66 | 69 | 67 | 67 | 64 | 81 |
| 1.5 | 77 | 75 | 73 | 71 | 74 | 72 | 71 | 69 | 87 |
| 2.0 | 80 | 78 | 77 | 75 | 77 | 76 | 75 | 72 | 92 |
| 2.5 | 82 | 80 | 79 | 78 | 79 | 78 | 77 | 75 | 95 |
| 3.0 | 83 | 82 | 81 | 80 | 80 | 79 | 78 | 76 | 97 |
| 4.0 | 84 | 83 | 82 | 82 | 81 | 81 | 80 | 78 | 99 |
| 5.0 | 84 | 84 | 83 | 83 | 82 | 82 | 80 | 79 | 100 |

**Luminance curve limit**




**UGR diagram**

Corrected UGR values (at 2000 lm bare lamp luminous flux)

| Riflect.: ceil/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 | 15.9 | 16.5 | 16.2 | 16.8 | 17.0 | 15.9 | 16.5 | 16.2 | 16.8 | 17.0 |
| | 3H | 15.7 | 16.3 | 16.1 | 16.6 | 16.9 | 15.7 | 16.3 | 16.1 | 16.6 | 16.9 |
| | 4H | 15.7 | 16.2 | 16.0 | 16.5 | 16.8 | 15.7 | 16.2 | 16.0 | 16.5 | 16.8 |
| | 6H | 15.6 | 16.1 | 15.9 | 16.4 | 16.7 | 15.6 | 16.1 | 15.9 | 16.4 | 16.7 |
| | 8H | 15.6 | 16.0 | 15.9 | 16.4 | 16.7 | 15.5 | 16.0 | 15.9 | 16.4 | 16.7 |
| | 12H | 15.5 | 16.0 | 15.9 | 16.3 | 16.7 | 15.5 | 16.0 | 15.9 | 16.3 | 16.7 |
| 4H | 2H | 15.7 | 16.2 | 16.0 | 16.5 | 16.8 | 15.7 | 16.2 | 16.0 | 16.5 | 16.8 |
| | 3H | 15.5 | 16.0 | 15.9 | 16.3 | 16.7 | 15.5 | 16.0 | 15.9 | 16.3 | 16.7 |
| | 4H | 15.4 | 15.8 | 15.8 | 16.2 | 16.6 | 15.4 | 15.8 | 15.8 | 16.2 | 16.6 |
| | 6H | 15.3 | 15.7 | 15.8 | 16.1 | 16.5 | 15.3 | 15.7 | 15.8 | 16.1 | 16.5 |
| | 8H | 15.3 | 15.6 | 15.7 | 16.0 | 16.5 | 15.3 | 15.6 | 15.7 | 16.0 | 16.5 |
| | 12H | 15.3 | 15.5 | 15.7 | 16.0 | 16.4 | 15.2 | 15.5 | 15.7 | 16.0 | 16.4 |
| 8H | 4H | 15.3 | 15.6 | 15.7 | 16.0 | 16.5 | 15.3 | 15.6 | 15.7 | 16.0 | 16.5 |
| | 6H | 15.2 | 15.5 | 15.7 | 15.9 | 16.4 | 15.2 | 15.5 | 15.7 | 15.9 | 16.4 |
| | 8H | 15.2 | 15.4 | 15.6 | 15.9 | 16.4 | 15.2 | 15.4 | 15.6 | 15.9 | 16.4 |
| | 12H | 15.1 | 15.3 | 15.6 | 15.8 | 16.3 | 15.1 | 15.3 | 15.6 | 15.8 | 16.3 |
| 12H | 4H | 15.2 | 15.5 | 15.7 | 16.0 | 16.4 | 15.3 | 15.5 | 15.7 | 16.0 | 16.4 |
| | 6H | 15.2 | 15.4 | 15.6 | 15.9 | 16.4 | 15.2 | 15.4 | 15.6 | 15.9 | 16.4 |
| | 8H | 15.1 | 15.3 | 15.6 | 15.8 | 16.3 | 15.1 | 15.3 | 15.6 | 15.8 | 16.3 |

Variations with the observer position at spacing:

| S = | | | |
|---|---|---|---|
| | 1.0H | 5.1 / -14.3 | 5.1 / -14.3 |
| | 1.5H | 7.9 / -16.4 | 7.9 / -16.4 |
| | 2.0H | 9.9 / -17.8 | 9.9 / -17.8 |