# Tecnica Evo

**Design iGuzzini** **iGuzzini**

Last information update: December 2024

**Product configuration: RN70**
RN70: Adjustable recessed spotlight - body Ø117 - Flood optic Food: Fruit and vegetables

**Product code**
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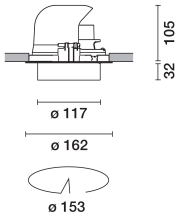
**Technical description**
Adjustable spotlight for recessed installation. Load-bearing structure with contact frame and die-cast aluminium, adjustable lighting body. Steel wire fixing springs. Coupling and rotation element in high resistance plastic, designed as a stylish internal cover and a practical recessed mounting. Available rotation: 359° - Adjustability: +60° (external) -20° (internal). Optical assembly featuring an LED lamp with high color rendering index - a specific, calibrated colour tone for highlighting vegetable products (fruit and vegetables). The anti-scratch reflector made of P.V.D (Physical Vapour Deposition) aluminium provides optimum performance levels in terms of yield and efficiency. Supplied with a power supply unit connected to the luminaire. Possibility of installing a flat frontal accessory - glass cover or an elliptical distribution refractor. Interchangeable spotlights in all openings available as accessories.

**Installation**
Recessed in false ceiling - fixed via steel wire springs for thicknesses from 1 to 25 mm.




**Colour**
White (01) | Black (04)

**Weight (Kg)**
1

**Mounting**
ceiling recessed

**Wiring**
Direct power line connection via the terminals on the power supply unit included.

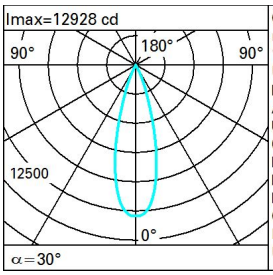
Complies with EN60598-1 and pertinent regulations

IP20

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 3367 | Colour temperature [K]: | 3000 |
| W system: | 40 | MacAdam Step: | 3 |
| lm source: | 3700 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| W source: | 34 | Lamp code: | LED |
| Luminous efficiency (lm/W, real value): | 84.2 | Number of lamps for optical assembly: | 1 |
| lm in emergency mode: | - | ZVEI Code: | LED |
| Total light flux at or above an angle of 90° [Lm]: | 0 | Number of optical assemblies: | 1 |
| Light Output Ratio (L.O.R.) [%]: | 91 | Power factor: | See installation instructions |
| Beam angle [°]: | 30° | Control: | On/off |
| CRI (minimum): | 95 | | |

**Polar**




**CIE**
nL 0.91
100-100-100-100-91
UGR <10-<10
**DIN**
A.61
**UTE**
0.91A+0.00T
F"1=997
F"1+F"2=999
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

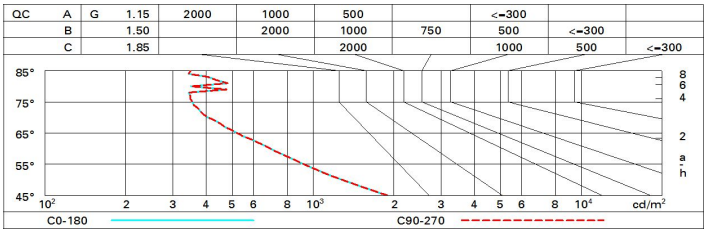
Lux

| h | d | Em | Emax |
|---|---|---|---|
| 2 | 1.1 | 2567 | 3232 |
| 4 | 2.1 | 642 | 808 |
| 6 | 3.2 | 285 | 359 |
| 8 | 4.2 | 160 | 202 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 82 | 78 | 75 | 73 | 77 | 75 | 74 | 71 | 78 |
| 1.0 | 86 | 82 | 79 | 77 | 81 | 79 | 78 | 75 | 83 |
| 1.5 | 90 | 87 | 85 | 83 | 86 | 84 | 83 | 81 | 89 |
| 2.0 | 93 | 91 | 89 | 88 | 89 | 88 | 87 | 85 | 93 |
| 2.5 | 94 | 93 | 92 | 91 | 92 | 90 | 90 | 87 | 96 |
| 3.0 | 96 | 95 | 94 | 93 | 93 | 92 | 91 | 89 | 98 |
| 4.0 | 97 | 96 | 95 | 95 | 94 | 94 | 93 | 90 | 99 |
| 5.0 | 97 | 97 | 96 | 96 | 95 | 95 | 93 | 91 | 100 |

**Luminance curve limit**




**UGR diagram**

Corrected UGR values (at 3700 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 | -2.0 | 0.2 | -1.6 | 0.5 | 0.8 | -2.0 | 0.2 | -1.6 | 0.5 | 0.8 |
| | 3H | -2.0 | -0.2 | -1.6 | 0.1 | 0.4 | -2.0 | -0.3 | -1.7 | 0.0 | 0.4 |
| | 4H | -1.9 | -0.5 | -1.6 | -0.2 | 0.2 | -2.1 | -0.6 | -1.7 | -0.3 | 0.1 |
| | 6H | -1.9 | -0.8 | -1.5 | -0.5 | -0.1 | -2.1 | -1.0 | -1.7 | -0.7 | -0.3 |
| | 8H | -1.9 | -0.8 | -1.5 | -0.5 | -0.1 | -2.1 | -1.1 | -1.7 | -0.7 | -0.3 |
| | 12H | -1.9 | -0.8 | -1.5 | -0.5 | -0.1 | -2.2 | -1.1 | -1.8 | -0.8 | -0.4 |
| 4H | 2H | -2.1 | -0.6 | -1.7 | -0.3 | 0.1 | -1.9 | -0.5 | -1.6 | -0.2 | 0.2 |
| | 3H | -1.9 | -0.9 | -1.5 | -0.5 | -0.2 | -1.9 | -0.8 | -1.5 | -0.5 | -0.1 |
| | 4H | -1.9 | -0.9 | -1.5 | -0.6 | -0.2 | -1.9 | -0.9 | -1.5 | -0.6 | -0.2 |
| | 6H | -2.1 | -0.4 | -1.6 | 0.0 | 0.5 | -2.2 | -0.5 | -1.7 | -0.1 | 0.4 |
| | 8H | -2.2 | -0.2 | -1.7 | 0.2 | 0.7 | -2.3 | -0.4 | -1.9 | 0.1 | 0.6 |
| | 12H | -2.2 | -0.2 | -1.7 | 0.3 | 0.8 | -2.4 | -0.4 | -1.9 | 0.1 | 0.6 |
| 8H | 4H | -2.3 | -0.4 | -1.9 | 0.1 | 0.6 | -2.2 | -0.2 | -1.7 | 0.2 | 0.7 |
| | 6H | -2.2 | -0.4 | -1.7 | 0.1 | 0.6 | -2.2 | -0.3 | -1.6 | 0.2 | 0.7 |
| | 8H | -2.1 | -0.4 | -1.6 | 0.1 | 0.6 | -2.1 | -0.4 | -1.6 | 0.1 | 0.6 |
| | 12H | -1.9 | -0.8 | -1.4 | -0.3 | 0.3 | -1.9 | -0.8 | -1.4 | -0.3 | 0.2 |
| 12H | 4H | -2.4 | -0.4 | -1.9 | 0.1 | 0.6 | -2.2 | -0.2 | -1.7 | 0.3 | 0.8 |
| | 6H | -2.2 | -0.5 | -1.7 | -0.0 | 0.5 | -2.1 | -0.4 | -1.6 | 0.1 | 0.6 |
| | 8H | -1.9 | -0.8 | -1.4 | -0.3 | 0.2 | -1.9 | -0.8 | -1.4 | -0.3 | 0.3 |

Variations with the observer position at spacing:

| S = | | | |
|---|---|---|---|
| | 1.0H | 3.7 / -2.7 | 3.7 / -2.7 |
| | 1.5H | 6.1 / -3.6 | 6.1 / -3.6 |
| | 2.0H | 8.0 / -4.2 | 8.0 / -4.2 |