**Reflex**

**Design iGuzzini**                                            **iGuzzini**

Last information update: May 2024

**Product configuration: N041+PA54.01**
N041: adjustable luminaire - Ø 96 mm - warm white - medium optic - minimal
PA54.01: Minimal flange - White

**Product code**
N041: adjustable luminaire - Ø 96 mm - warm white - medium optic - minimal **Attention! Code no longer in production**

**Technical description**
Round adjustable luminaire designed to use an LED lamp with C.O.B.technology in a warm white colour tone 3000K CRI 90. Version without rim for mounting flush with ceiling. Lower reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Anodised aluminium upper reflector. Black, zinc-plated sheet steel bracket. The luminaire can be rotated 30° relative to the horizontal plane and 358° about the vertical axis. The luminaire is fitted with mechanical locks for light beam aiming. Painted extruded aluminium dissipater.

**Installation**
Installation flush with the ceiling is for false ceilings 12.5 mm thick

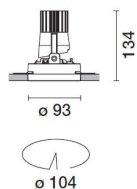| **Colour** | **Weight (Kg)** |
|---|---|
| Aluminium (12) | 0.49 |

**Mounting**
ceiling recessed

**Wiring**
Product complete with DALI components

Complies with EN60598-1 and pertinent regulations

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**Accessory code**
PA54.01: Minimal flange - White **Attention! Code no longer in production**

**Technical description**
Adapter for plasterboard false ceilings and rapid flush with ceiling installations, specifically for adjustable Reflex recessed luminaires. Made of plastic with a border for limiting plaster and holes for installation with screws and anchors suitable for plasterboard (included). Fastening the adapter to the installation surface does not require predefined panel thicknesses.

**Installation**
Preparation hole Ø 104 mm. Fastening the perforated perimeter rim to the installation surface (fixing screws included) - subsequent operations including filling, smoothing to the reference border and finishing - final insertion of the recessed luminaire (separate code) in the adapter.

| **Colour** | **Weight (Kg)** |
|---|---|
| White (01) | 0.05 |

**Mounting**
ceiling recessed

Complies with EN60598-1 and pertinent regulations

**Technical data**

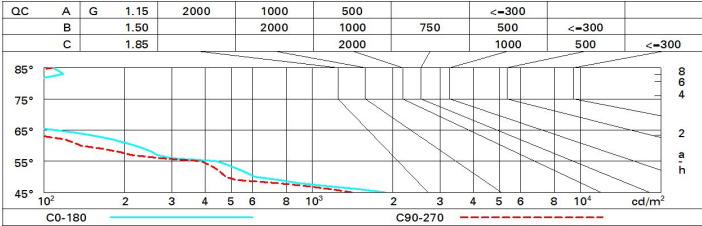| | | | |
|---|---|---|---|
| lm system: | 757 | CRI (minimum): | 90 |
| W system: | 16.3 | Colour temperature [K]: | 3000 |
| lm source: | 1650 | MacAdam Step: | 2 |
| W source: | 14 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 46.4 | Lamp code: | LED |
| lm in emergency mode: | - | Number of lamps for optical assembly: | 1 |
| Total light flux at or above an angle of 90° [Lm]: | 0 | ZVEI Code: | LED |
| Light Output Ratio (L.O.R.) [%]: | 46 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 25° | Control: | DALI |

## Polar

| Imax=3451 cd | | C0-180 |
|---|---|---|

**CIE**
nL 0.46
99-100-100-100-46
UGR <10-<10
**DIN**
A.61
**UTE**
0.46A+0.00T
F"1=995
F"1+F"2=1000
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<1500 cd/m² at 65°
UGR<10 l L<1500 cd/mq @65°

| Lux | | | | |
|---|---|---|---|---|
| h | d1 | d2 | Em | Emax |
| 2 | 0.9 | 0.9 | 650 | 863 |
| 4 | 1.8 | 1.8 | 163 | 216 |
| 6 | 2.7 | 2.7 | 72 | 96 |
| 8 | 3.5 | 3.5 | 41 | 54 |

α=25°
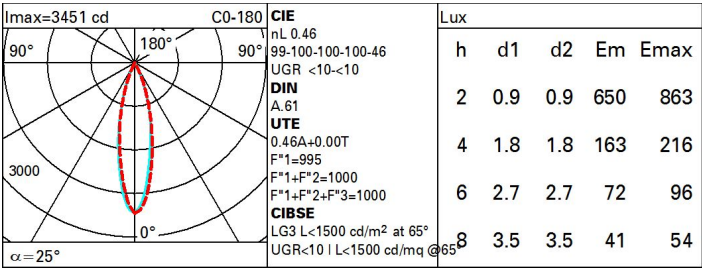
## Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 41 | 39 | 38 | 37 | 39 | 37 | 37 | 36 | 78 |
| 1.0 | 43 | 41 | 40 | 39 | 41 | 40 | 39 | 38 | 83 |
| 1.5 | 45 | 44 | 43 | 42 | 43 | 42 | 42 | 41 | 88 |
| 2.0 | 47 | 46 | 45 | 44 | 45 | 44 | 44 | 43 | 93 |
| 2.5 | 48 | 47 | 46 | 46 | 46 | 46 | 45 | 44 | 96 |
| 3.0 | 48 | 48 | 47 | 47 | 47 | 46 | 46 | 45 | 98 |
| 4.0 | 49 | 48 | 48 | 48 | 48 | 47 | 47 | 46 | 99 |
| 5.0 | 49 | 49 | 48 | 48 | 48 | 48 | 47 | 46 | 100 |

## Luminance curve limit

| QC | A | G | 1.15 | 2000 | | 1000 | | 500 | | | <=300 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | B | | 1.50 | | | 2000 | | 1000 | | 750 | 500 | | <=300 | |
| | C | | 1.85 | | | | | 2000 | | | 1000 | | 500 | <=300 |

| C0-180 | C90-270 |
|---|---|

**UGR diagram**

Corrected UGR values (at 1650 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 x | y | | | viewed crosswise | | | | | viewed endwise | | |
| 2H | 2H | 0.7 | 2.8 | 1.1 | 3.2 | 3.5 | 0.3 | 2.5 | 0.7 | 2.8 | 3.1 |
| | 3H | 0.5 | 2.2 | 0.9 | 2.6 | 2.9 | 0.2 | 1.9 | 0.6 | 2.2 | 2.6 |
| | 4H | 0.5 | 1.9 | 0.9 | 2.2 | 2.6 | 0.2 | 1.6 | 0.5 | 1.9 | 2.2 |
| | 6H | 0.4 | 1.5 | 0.8 | 1.8 | 2.2 | 0.1 | 1.2 | 0.5 | 1.5 | 1.9 |
| | 8H | 0.4 | 1.4 | 0.8 | 1.8 | 2.2 | 0.1 | 1.1 | 0.5 | 1.5 | 1.8 |
| | 12H | 0.4 | 1.4 | 0.8 | 1.7 | 2.1 | 0.0 | 1.0 | 0.4 | 1.4 | 1.8 |
| 4H | 2H | 0.5 | 1.9 | 0.9 | 2.2 | 2.6 | 0.1 | 1.5 | 0.5 | 1.9 | 2.2 |
| | 3H | 0.4 | 1.4 | 0.8 | 1.7 | 2.1 | 0.0 | 1.0 | 0.4 | 1.4 | 1.8 |
| | 4H | 0.3 | 1.2 | 0.7 | 1.6 | 2.0 | -0.1 | 0.9 | 0.4 | 1.3 | 1.7 |
| | 6H | -0.1 | 1.6 | 0.4 | 2.0 | 2.5 | -0.4 | 1.2 | 0.0 | 1.7 | 2.2 |
| | 8H | -0.2 | 1.7 | 0.3 | 2.1 | 2.6 | -0.6 | 1.3 | -0.1 | 1.8 | 2.3 |
| | 12H | -0.3 | 1.6 | 0.2 | 2.1 | 2.6 | -0.7 | 1.3 | -0.2 | 1.8 | 2.3 |
| 8H | 4H | -0.3 | 1.7 | 0.2 | 2.1 | 2.6 | -0.6 | 1.3 | -0.1 | 1.8 | 2.3 |
| | 6H | -0.4 | 1.5 | 0.1 | 2.0 | 2.5 | -0.7 | 1.1 | -0.2 | 1.6 | 2.2 |
| | 8H | -0.4 | 1.3 | 0.1 | 1.8 | 2.3 | -0.7 | 0.9 | -0.2 | 1.4 | 2.0 |
| | 12H | -0.2 | 0.9 | 0.3 | 1.4 | 1.9 | -0.6 | 0.5 | -0.0 | 1.0 | 1.6 |
| 12H | 4H | -0.4 | 1.6 | 0.1 | 2.1 | 2.6 | -0.7 | 1.3 | -0.2 | 1.8 | 2.3 |
| | 6H | -0.4 | 1.3 | 0.1 | 1.8 | 2.3 | -0.7 | 0.9 | -0.2 | 1.4 | 2.0 |
| | 8H | -0.2 | 0.9 | 0.3 | 1.4 | 1.9 | -0.6 | 0.5 | -0.0 | 1.0 | 1.6 |

Variations with the observer position at spacing:

| S = | | | |
|---|---|---|---|
| | 1.0H | 3.9 / -8.6 | 4.4 / -9.8 |
| | 1.5H | 6.7 / -13.5 | 7.2 / -11.8 |
| | 2.0H | 8.6 / -13.5 | 9.2 / -14.1 |