

## Reflex

Design iGuzzini

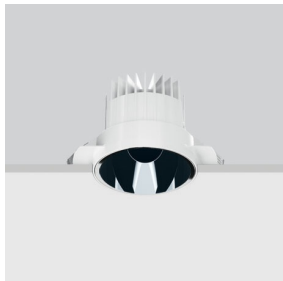
iGuzzini

Last information update: May 2024

### Product configuration: Q977+PA57.01

Q977: Fixed circular recessed luminaire - warm white - Ø153 mm - wide flood optic - UGR<19

PA57.01: Minimal flange - White



#### Product code

Q977: Fixed circular recessed luminaire - warm white - Ø153 mm - wide flood optic - UGR<19 **Attention! Code no longer in production**

#### Technical description

Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version without rim for mounting flush with ceiling. 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 CRI 90 (2700K). General light emission, with controlled luminance UGR<19 1500 cd/m2  $\alpha$ >65° wide flood optic.

#### Installation

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

#### Colour

Aluminium (12)

#### Weight (Kg)

1.32

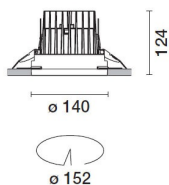
#### Mounting

ceiling recessed

#### Wiring

product complete with DALI components

Complies with EN60598-1 and pertinent regulations



IP20

IP54



### Accessory code

PA57.01: Minimal flange - White **Attention! Code no longer in production**

#### Technical description

Adapter for plasterboard false ceilings and rapid flush with ceiling installations, specifically for fixed and wall washer 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 152 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

White (01)

#### Weight (Kg)

0.05

#### Mounting

ceiling recessed

Complies with EN60598-1 and pertinent regulations



### Technical data

Im system:	2612	CRI (minimum):	90
W system:	30.9	Colour temperature [K]:	2700
Im source:	3150	MacAdam Step:	2
W source:	28	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (Im/W, real value):	84.5	Lamp code:	LED
Im 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.) [%]:	83	Number of optical assemblies:	1
Beam angle [°]:	52°	Control:	DALI

<p>Diagram showing a light distribution pattern on a circular scale. The scale has markings for 90°, 180°, and 90°. A beam is shown with a width of 4000 at the 0° position. The beam angle is indicated as <math>\alpha = 52^\circ</math>.</p>	<b>Imax=3669 cd</b>		<b>CIE</b> nL 0.83 98-100-100-100-83 UGR 16.4-16.4		<b>Lux</b>				
	<b>DIN</b> A.61				h	d	Em	E <sub>max</sub>	
	<b>UTE</b> 0.83A+0.00T F*1=982 F*1+F*2=1000 F*1+F*2+F*3=1000				2	2	696	917	
	<b>CIBSE</b> LG3 L<1500 cd/m <sup>2</sup> at 65° UGR<19   L<1500 cd/mq @65°				4	3.9	174	229	
					6	5.9	77	102	
$\alpha = 52^\circ$						8	7.8	43	57

R	77	75	73	71	55	53	33	00	DDR
K0.8	74	70	68	65	70	67	67	64	77
1.0	78	74	72	70	73	71	71	68	82
1.5	82	79	77	75	78	76	75	73	88
2.0	84	82	81	79	81	80	79	77	92
2.5	86	84	83	82	83	82	81	79	95
3.0	87	86	85	84	85	84	83	81	97
4.0	88	87	87	86	86	85	84	82	99
5.0	89	88	87	87	87	86	85	83	100

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

The graph illustrates the relationship between luminance ( $\text{cd}/\text{m}^2$ ) and viewing angle (degrees) for different quality classes (QC). The x-axis represents luminance on a logarithmic scale from  $10^1$  to  $10^4 \text{ cd}/\text{m}^2$ . The y-axis represents viewing angle from  $45^\circ$  to  $85^\circ$ .

A red dashed curve indicates the limit for QC0-180, which decreases from approximately  $55^\circ$  at  $10^1 \text{ cd}/\text{m}^2$  to  $45^\circ$  at  $10^4 \text{ cd}/\text{m}^2$ . A cyan bar below the x-axis marks the range for QC0-180.

A second red dashed curve indicates the limit for QC90-270, which starts around  $45^\circ$  at  $10^3 \text{ cd}/\text{m}^2$  and reaches  $45^\circ$  at  $10^4 \text{ cd}/\text{m}^2$ . A blue bar below the x-axis marks the range for QC90-270.

Lines connect the values in the table above to specific points on the curves, showing how different QC levels correspond to specific luminance and viewing angle requirements.

# UGR diagram

Corrected UGR values (at 3150 lm bare lamp luminous flux)												
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise					
2H	2H	17.0	17.6	17.2	17.8	18.0	17.0	17.6	17.2	17.8	18.0	
	3H	16.8	17.4	17.1	17.6	17.9	16.8	17.4	17.1	17.6	17.9	
	4H	16.7	17.3	17.1	17.6	17.9	16.7	17.3	17.1	17.6	17.9	
	6H	16.7	17.1	17.0	17.5	17.8	16.7	17.1	17.0	17.5	17.8	
	8H	16.6	17.1	17.0	17.4	17.8	16.6	17.1	17.0	17.4	17.8	
	12H	16.6	17.0	17.0	17.4	17.7	16.6	17.0	17.0	17.4	17.7	
4H	2H	16.7	17.3	17.1	17.6	17.9	16.7	17.3	17.1	17.6	17.9	
	3H	16.6	17.0	17.0	17.4	17.7	16.6	17.0	17.0	17.4	17.7	
	4H	16.5	16.9	16.9	17.3	17.6	16.5	16.9	16.9	17.3	17.6	
	6H	16.4	16.8	16.8	17.1	17.6	16.4	16.8	16.8	17.1	17.6	
	8H	16.4	16.7	16.8	17.1	17.5	16.4	16.7	16.8	17.1	17.5	
	12H	16.3	16.6	16.8	17.0	17.5	16.3	16.6	16.8	17.0	17.5	
8H	4H	16.4	16.7	16.8	17.1	17.5	16.4	16.7	16.8	17.1	17.5	
	6H	16.3	16.5	16.7	17.0	17.5	16.3	16.5	16.7	17.0	17.5	
	8H	16.2	16.4	16.7	16.9	17.4	16.2	16.4	16.7	16.9	17.4	
	12H	16.2	16.4	16.7	16.8	17.4	16.2	16.4	16.7	16.8	17.4	
12H	4H	16.3	16.6	16.8	17.0	17.5	16.3	16.6	16.8	17.0	17.5	
	6H	16.2	16.4	16.7	16.9	17.4	16.2	16.4	16.7	16.9	17.4	
	8H	16.2	16.4	16.7	16.8	17.4	16.2	16.4	16.7	16.8	17.4	
Variations with the observer position at spacing:												
S =		1.0H	5.1 / -29.8					5.1 / -29.8				
		1.5H	7.9 / -30.2					7.9 / -30.2				
		2.0H	9.9 / -30.4					9.9 / -30.4				