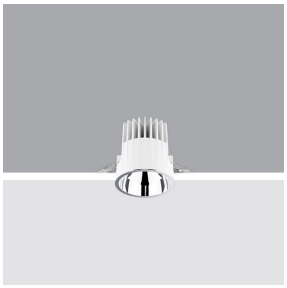
Reflex

Design iGuzzini **iGuzzini**

Last information update: May 2025

Product configuration: QM46.Y+PA53.01
QM46.Y: Minimal fixed recessed luminaire Ø 96 mm - Medium beam - UGR < 19 - DALI.
PA53.01: Minimal flange - For recessed ø 96 mm version - White

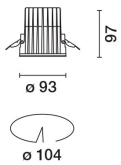


Product code
QM46.Y: Minimal fixed recessed luminaire Ø 96 mm - Medium beam - UGR < 19 - DALI. **Attention! Code no longer in production**

Technical description
Fixed round recessed luminaire for C.o.B. LED lamp. UGR<19 controlled luminance light emission. Version without rim for mounting flush with ceiling. Die-cast aluminium recessed structure for installation in a specific adapter with a separate code is available for false ceilings. This is indispensable for installing recessed luminaires. Reflector vacuum-metallised with aluminium vapours and finished with a protective anti-scratch layer and anti-fall retaining system. DALI dimmable control gear unit included.

Installation
The luminaire is recessed in the adapter (PA53) by means of a steel wire spring, previously installed on the ceiling. A spring lock / unlock system simplifies installation and eventual maintenance operations.

Colour	Weight (Kg)
Aluminium (12)	0.58



Mounting
ceiling recessed

Wiring
Power line connections can be made on control gear terminal board included.

Notes

TPb rated

Complies with EN60598-1 and pertinent regulations

IP20 IP43 On the visible part of the product once installed

Accessory code
PA53.01: Minimal flange - For recessed ø 96 mm version - White **Attention! Code no longer in production**

Technical description
Adapter for plasterboard false ceilings and rapid flush with ceiling installations, specifically for fixed 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

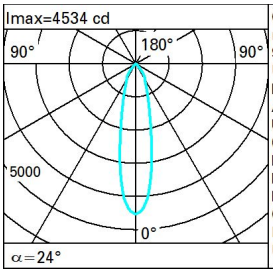
Mounting
ceiling recessed

Complies with EN60598-1 and pertinent regulations

Technical data

lm system:	1457	CRI (minimum):	90
W system:	17.1	Colour temperature [K]:	3000
lm source:	2000	MacAdam Step:	2
W source:	15	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	85.2	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.) [%]:	73	Number of optical assemblies:	1
Beam angle [°]:	24°	Control:	DALI-2

Polar



CIE
nL 0.73
97-100-100-100-73
UGR 17.2-17.2
DIN
A.61
UTE
0.73A+0.00T
F"1=973
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<19 I L<1500 cd/mq @65°

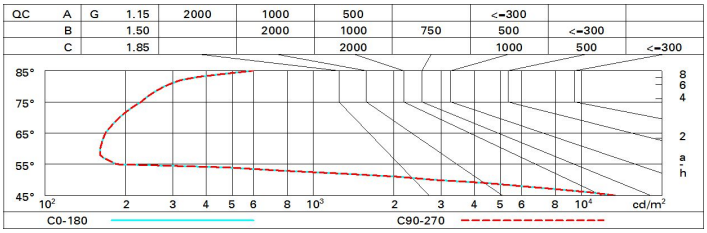
Lux

h	d	Em	Emax
2	0.9	883	1133
4	1.7	221	283
6	2.6	98	126
8	3.4	55	71

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	65	61	59	57	61	58	58	56	77
1.0	68	65	62	61	64	62	62	59	81
1.5	72	69	67	66	68	67	66	64	88
2.0	74	72	71	70	71	70	69	67	92
2.5	75	74	73	72	73	72	71	69	95
3.0	76	75	75	74	74	73	73	71	97
4.0	77	76	76	75	75	75	74	72	99
5.0	78	77	77	76	76	76	74	73	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					viewed		
x	y			crosswise					endwise		
2H	2H	18.0	19.7	18.4	20.0	20.3	18.0	19.7	18.4	20.0	20.3
	3H	17.9	19.2	18.3	19.5	19.8	17.9	19.2	18.3	19.5	19.8
	4H	17.8	19.0	18.2	19.3	19.6	17.8	19.0	18.2	19.3	19.6
	6H	17.7	18.9	18.1	19.2	19.6	17.7	18.9	18.1	19.2	19.6
	8H	17.6	18.8	18.0	19.1	19.5	17.6	18.8	18.0	19.1	19.5
	12H	17.6	18.7	18.0	19.1	19.5	17.6	18.7	18.0	19.1	19.5
4H	2H	17.8	19.0	18.2	19.3	19.6	17.8	19.0	18.2	19.3	19.6
	3H	17.6	18.7	18.0	19.1	19.5	17.6	18.7	18.0	19.1	19.5
	4H	17.5	18.5	17.9	18.9	19.3	17.5	18.5	17.9	18.9	19.3
	6H	17.3	18.6	17.7	19.0	19.5	17.3	18.6	17.7	19.0	19.5
	8H	17.2	18.6	17.6	19.0	19.5	17.2	18.6	17.6	19.0	19.5
	12H	17.0	18.6	17.5	19.1	19.6	17.0	18.6	17.5	19.1	19.6
8H	4H	17.2	18.6	17.6	19.0	19.5	17.2	18.6	17.6	19.0	19.5
	6H	17.0	18.5	17.5	18.9	19.5	17.0	18.5	17.5	18.9	19.5
	8H	17.0	18.3	17.5	18.8	19.3	17.0	18.3	17.5	18.8	19.3
	12H	17.1	18.0	17.6	18.5	19.0	17.1	18.0	17.6	18.5	19.0
12H	4H	17.0	18.6	17.5	19.1	19.6	17.0	18.6	17.5	19.1	19.6
	6H	17.0	18.3	17.5	18.8	19.3	17.0	18.3	17.5	18.8	19.3
	8H	17.1	18.0	17.6	18.5	19.0	17.1	18.0	17.6	18.5	19.0

Variations with the observer position at spacing:

S =	1.0H	4.4 / -22.6	4.4 / -22.6
	1.5H	7.2 / -22.8	7.2 / -22.8
	2.0H	9.2 / -23.1	9.2 / -23.1