Reflex

Design iGuzzini **iGuzzini**

Last information update: April 2024

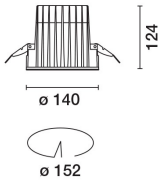
Product configuration: QM78.Y+PA57.01
QM78.Y: Minimal fixed recessed luminaire Ø 153 mm - Medium beam - UGR < 19 - DALI.
PA57.01: Minimal flange - For recessed ø 153 mm version - White

Product code
QM78.Y: Minimal fixed recessed luminaire Ø 153 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 (PA57) 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)	1.22



Mounting
ceiling recessed

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

Complies with EN60598-1 and pertinent regulations

IP20 IP43 On the visible part of the product once installed

Accessory code
PA57.01: Minimal flange - For recessed ø 153 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 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	Weight (Kg)
White (01)	0.05

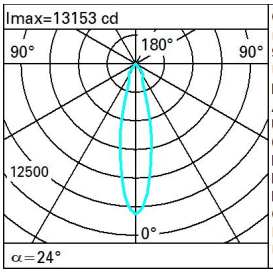
Mounting
ceiling recessed

Complies with EN60598-1 and pertinent regulations

Technical data

lm system:	3384	CRI (minimum):	80
W system:	30	Colour temperature [K]:	4000
lm source:	3900	MacAdam Step:	2
W source:	27	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	112.8	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.) [%]:	87	Number of optical assemblies:	1
Beam angle [°]:	24°	Control:	DALI-2

Polar



CIE
nL 0.87
99-100-100-100-87
UGR 16.4-16.4
DIN
A.61
UTE
0.87A+0.00T
F"1=993
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<19 I L<1500 cd/mq @65°

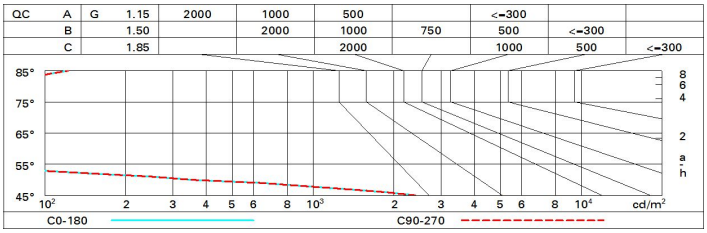
Lux

h	d	Em	Emax
2	0.9	2505	3288
4	1.7	626	822
6	2.6	278	365
8	3.4	157	206

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	78	74	71	69	73	71	70	68	78
1.0	82	78	75	73	77	75	74	72	83
1.5	86	83	81	79	82	80	79	77	88
2.0	88	86	85	83	85	84	83	80	93
2.5	90	89	87	86	87	86	85	83	96
3.0	91	90	89	88	89	88	87	85	98
4.0	92	91	91	90	90	89	88	86	99
5.0	93	92	92	91	91	90	89	87	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3900 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	17.2	19.0	17.6	19.3	19.6	17.2	19.0	17.6	19.3	19.6
	3H	17.1	18.4	17.5	18.7	19.0	17.1	18.4	17.5	18.7	19.0
	4H	17.0	18.2	17.4	18.5	18.8	17.0	18.2	17.4	18.5	18.8
	6H	16.9	18.0	17.3	18.4	18.7	16.9	18.0	17.3	18.4	18.7
	8H	16.9	18.0	17.3	18.3	18.7	16.9	18.0	17.3	18.3	18.7
	12H	16.8	17.9	17.2	18.2	18.6	16.8	17.9	17.2	18.2	18.6
4H	2H	17.0	18.2	17.4	18.5	18.8	17.0	18.2	17.4	18.5	18.8
	3H	16.8	17.9	17.2	18.2	18.6	16.8	17.9	17.2	18.2	18.6
	4H	16.7	17.7	17.2	18.1	18.5	16.7	17.7	17.2	18.1	18.5
	6H	16.5	17.8	17.0	18.2	18.7	16.5	17.8	17.0	18.2	18.7
	8H	16.4	17.8	16.8	18.3	18.8	16.4	17.8	16.8	18.3	18.8
	12H	16.2	17.9	16.7	18.3	18.9	16.2	17.9	16.7	18.3	18.9
8H	4H	16.4	17.8	16.8	18.3	18.8	16.4	17.8	16.8	18.3	18.8
	6H	16.2	17.7	16.7	18.2	18.7	16.2	17.7	16.7	18.2	18.7
	8H	16.2	17.5	16.7	18.0	18.5	16.2	17.5	16.7	18.0	18.5
	12H	16.3	17.2	16.8	17.7	18.3	16.3	17.2	16.8	17.7	18.3
12H	4H	16.2	17.9	16.7	18.3	18.9	16.2	17.9	16.7	18.3	18.9
	6H	16.2	17.5	16.7	18.0	18.5	16.2	17.5	16.7	18.0	18.5
	8H	16.3	17.2	16.8	17.7	18.3	16.3	17.2	16.8	17.7	18.3

Variations with the observer position at spacing:

S =	1.0H	5.1 / -31.3	5.1 / -31.3
	1.5H	7.9 / -31.6	7.9 / -31.6
	2.0H	9.9 / -31.8	9.9 / -31.8