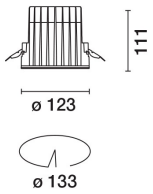
Reflex

Design iGuzzini **iGuzzini**

Last information update: April 2024

Product configuration: QM52.Y+PA55.01
QM52.Y: Minimal fixed recessed luminaire Ø 125 mm - Wide Flood beam - UGR < 19 - ON-OFF.
PA55.01: Minimal flange - For recessed ø 125 mm version - White



Product code
QM52.Y: Minimal fixed recessed luminaire Ø 125 mm - Wide Flood beam - UGR < 19 - ON-OFF. **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. Control gear unit included.

Installation
The luminaire is recessed in the adapter (PA55) 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)	0.95

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
PA55.01: Minimal flange - For recessed ø 125 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 133 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)	0.06

Mounting
ceiling recessed

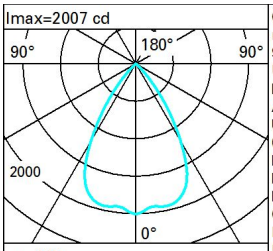
Complies with EN60598-1 and pertinent regulations

Technical data

lm system:	2024	CRI (minimum):	80
W system:	18.4	Colour temperature [K]:	4000
lm source:	2500	MacAdam Step:	2
W source:	16	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	110	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.) [%]:	81	Number of optical assemblies:	1
Beam angle [°]:	64°		

Polar

Imax=2007 cd



α = 64°

CIE
nL 0.81
96-100-100-100-81
UGR 18.8-18.8
DIN
A.61
UTE
0.81A+0.00T
F"1=961
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

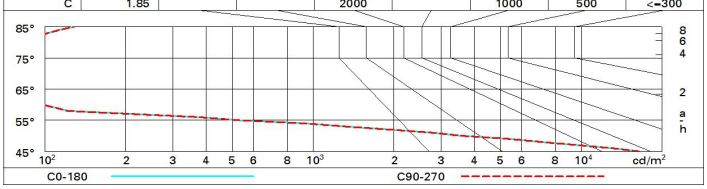
h	d	Em	Emax
2	2.5	384	502
4	5	96	125
6	7.5	43	56
8	10	24	31

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	68	65	63	67	64	64	61	76
1.0	75	72	69	67	71	68	68	65	81
1.5	79	77	74	73	76	74	73	70	87
2.0	82	80	78	77	79	77	77	74	92
2.5	84	82	81	80	81	80	79	77	95
3.0	85	84	83	82	82	81	80	78	97
4.0	86	85	84	84	83	83	82	80	98
5.0	86	86	85	85	84	84	82	80	99

Luminance curve limit

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



UGR diagram

Corrected UGR values (at 2500 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	19.4	20.0	19.6	20.2	20.4	19.4	20.0	19.6	20.2	20.4
	3H	19.2	19.8	19.5	20.0	20.3	19.2	19.8	19.5	20.0	20.3
	4H	19.2	19.7	19.5	19.9	20.2	19.2	19.7	19.5	19.9	20.2
	6H	19.1	19.5	19.4	19.9	20.2	19.1	19.5	19.4	19.9	20.2
	8H	19.0	19.5	19.4	19.8	20.1	19.0	19.5	19.4	19.8	20.1
	12H	19.0	19.4	19.4	19.8	20.1	19.0	19.4	19.4	19.8	20.1
4H	2H	19.2	19.7	19.5	19.9	20.2	19.2	19.7	19.5	19.9	20.2
	3H	19.0	19.4	19.4	19.8	20.1	19.0	19.4	19.4	19.8	20.1
	4H	18.9	19.3	19.3	19.7	20.0	18.9	19.3	19.3	19.7	20.0
	6H	18.8	19.2	19.3	19.6	20.0	18.8	19.2	19.3	19.6	20.0
	8H	18.8	19.1	19.2	19.5	19.9	18.8	19.1	19.2	19.5	19.9
	12H	18.7	19.0	19.2	19.4	19.9	18.7	19.0	19.2	19.4	19.9
8H	4H	18.8	19.1	19.2	19.5	19.9	18.8	19.1	19.2	19.5	19.9
	6H	18.7	18.9	19.2	19.4	19.9	18.7	18.9	19.2	19.4	19.9
	8H	18.6	18.8	19.1	19.3	19.8	18.6	18.8	19.1	19.3	19.8
	12H	18.6	18.8	19.1	19.2	19.8	18.6	18.8	19.1	19.2	19.8
12H	4H	18.7	19.0	19.2	19.4	19.9	18.7	19.0	19.2	19.4	19.9
	6H	18.6	18.8	19.1	19.3	19.8	18.6	18.8	19.1	19.3	19.8
	8H	18.6	18.8	19.1	19.2	19.8	18.6	18.8	19.1	19.2	19.8

Variations with the observer position at spacing:

S =	1.0H	4.7 / -26.2	4.7 / -26.2
	1.5H	7.5 / -31.2	7.5 / -31.2
	2.0H	9.5 / -31.4	9.5 / -31.4