Reflex

Design iGuzzini **iGuzzini**

Last information update: May 2024

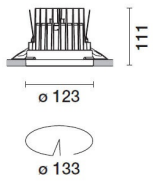
Product configuration: N220.Y+PA55.01
N220.Y: Fixed circular recessed luminaire - Ø125 mm - warm white - flood optic - UGR<19
PA55.01: Minimal flange - White

Product code
N220.Y: Fixed circular recessed luminaire - Ø125 mm - warm white - 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 (3000K). General light emission, with controlled luminance UGR<19 1500 cd/m2 α>65° flood optic.

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

Colour	Weight (Kg)
Aluminium (12)	1.08



Mounting
ceiling recessed

Wiring
product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP20 IP43 On the visible part of the product once installed

Accessory code
PA55.01: 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 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

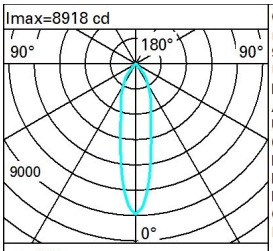
Mounting
ceiling recessed

Complies with EN60598-1 and pertinent regulations

Technical data

lm system:	3294	CRI (minimum):	80
W system:	32	Colour temperature [K]:	3000
lm source:	3750	MacAdam Step:	2
W source:	29	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	102.9	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.) [%]:	88	Number of optical assemblies:	1
Beam angle [°]:	24°	Control:	DALI

Polar



CIE
nL 0.88
98-100-100-100-88
UGR 19.1-19.1
DIN
A.61
UTE
0.88A+0.00T
F"1=978
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°

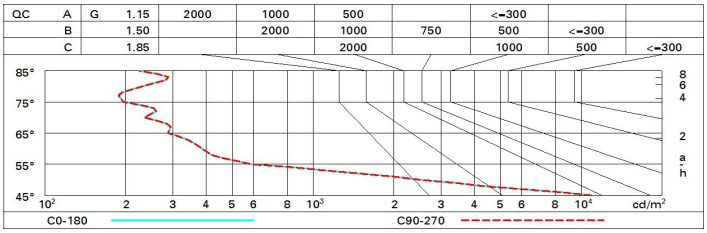
Lux

h	d	Em	Emax
2	0.9	1685	2230
4	1.7	421	557
6	2.6	187	248
8	3.4	105	139

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	79	74	71	69	74	71	70	68	77
1.0	82	78	76	73	77	75	75	72	82
1.5	86	84	81	79	83	81	80	77	88
2.0	89	87	85	84	86	84	83	81	92
2.5	91	89	88	87	88	87	86	84	95
3.0	92	91	90	89	89	89	88	85	97
4.0	93	92	92	91	91	90	89	87	99
5.0	94	93	93	92	92	91	90	88	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3750 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	19.7	20.3	19.9	20.5	20.8	19.7	20.3	19.9	20.5	20.8
	3H	19.5	20.1	19.8	20.4	20.7	19.5	20.1	19.8	20.4	20.7
	4H	19.4	20.0	19.8	20.3	20.6	19.4	20.0	19.8	20.3	20.6
	6H	19.4	19.9	19.7	20.2	20.5	19.4	19.9	19.7	20.2	20.5
	8H	19.3	19.8	19.7	20.1	20.5	19.3	19.8	19.7	20.1	20.5
	12H	19.3	19.8	19.7	20.1	20.4	19.3	19.8	19.7	20.1	20.4
4H	2H	19.4	20.0	19.8	20.3	20.6	19.4	20.0	19.8	20.3	20.6
	3H	19.3	19.8	19.7	20.1	20.4	19.3	19.8	19.7	20.1	20.4
	4H	19.2	19.6	19.6	20.0	20.4	19.2	19.6	19.6	20.0	20.4
	6H	19.1	19.5	19.5	19.9	20.3	19.1	19.5	19.5	19.9	20.3
	8H	19.1	19.4	19.5	19.8	20.2	19.1	19.4	19.5	19.8	20.2
	12H	19.0	19.3	19.5	19.7	20.2	19.0	19.3	19.5	19.7	20.2
8H	4H	19.1	19.4	19.5	19.8	20.2	19.1	19.4	19.5	19.8	20.2
	6H	19.0	19.2	19.4	19.7	20.2	19.0	19.2	19.4	19.7	20.2
	8H	18.9	19.2	19.4	19.6	20.1	18.9	19.2	19.4	19.6	20.1
	12H	18.9	19.1	19.4	19.6	20.1	18.9	19.1	19.4	19.6	20.1
12H	4H	19.0	19.3	19.5	19.7	20.2	19.0	19.3	19.5	19.7	20.2
	6H	18.9	19.2	19.4	19.6	20.1	18.9	19.2	19.4	19.6	20.1
	8H	18.9	19.1	19.4	19.6	20.1	18.9	19.1	19.4	19.6	20.1

Variations with the observer position at spacing:

S =	1.0H	4.4 / -24.6	4.4 / -24.6
	1.5H	7.2 / -25.8	7.2 / -25.8
	2.0H	9.2 / -26.2	9.2 / -26.2