Reflex

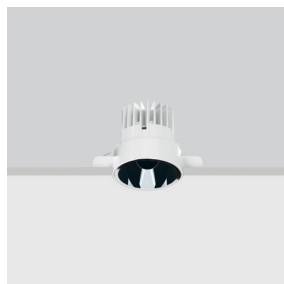**Design iGuzzini**   **iGuzzini**

Last information update: May 2024

Product configuration: Q962+PA53.01
Q962: Fixed circular recessed luminaire - Ø 96 mm - warm white - medium optic - UGR<19
PA53.01: Minimal flange - White

Product code
Q962: Fixed circular recessed luminaire - Ø 96 mm - warm white - medium 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 α>65° medium optic.

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

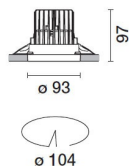| Colour	Weight (Kg)
Aluminium (12)	0.68

Mounting
ceiling recessed

Wiring
product complete with DALI components

Complies with EN60598-1 and pertinent regulations

ø 93 | 97
ø 104

IP20 IP54

Accessory code
PA53.01: 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 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:	1129	CRI (minimum):	90
W system:	13.9	Colour temperature [K]:	2700
lm source:	1550	MacAdam Step:	2
W source:	12	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	81.2	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

Polar

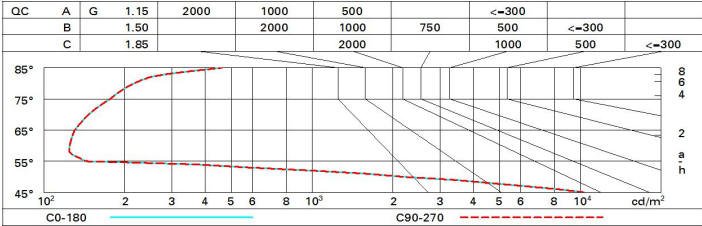| Imax=3514 cd	CIE	Lux			
	nL 0.73				
90° 180° 90°	97-100-100-100-73	h	d	Em	Emax
	UGR 16.3-16.3				
	DIN	2	0.9	685	878
	A.61				
	UTE				
4000	0.73A+0.00T	4	1.7	171	220
	F"1=973				
	F"1+F"2=999				
	F"1+F"2+F"3=1000	6	2.6	76	98
0°	**CIBSE**				
	LG3 L<1500 cd/m² at 65°				
α=24°	UGR<19 I L<1500 cd/mq @65°	8	3.4	43	55
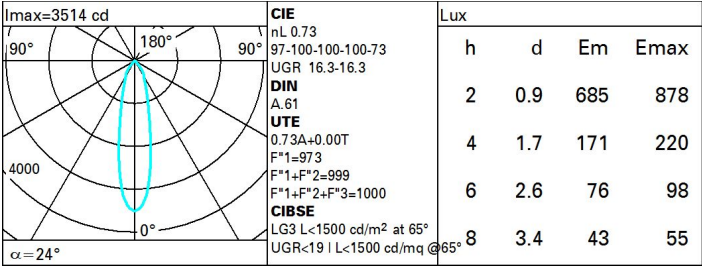
Utilisation factors

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

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

C0-180 ———— C90-270 - - - - - - - -

UGR diagram

Corrected UGR values (at 1550 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 x	y			viewed crosswise					viewed endwise		
2H	2H	17.1	18.8	17.5	19.1	19.4	17.1	18.8	17.5	19.1	19.4
	3H	17.0	18.3	17.4	18.6	18.9	17.0	18.3	17.4	18.6	18.9
	4H	16.9	18.1	17.3	18.4	18.7	16.9	18.1	17.3	18.4	18.7
	6H	16.8	18.0	17.2	18.3	18.7	16.8	18.0	17.2	18.3	18.7
	8H	16.8	17.9	17.2	18.3	18.6	16.8	17.9	17.2	18.3	18.6
	12H	16.7	17.8	17.1	18.2	18.6	16.7	17.8	17.1	18.2	18.6
4H	2H	16.9	18.1	17.3	18.4	18.7	16.9	18.1	17.3	18.4	18.7
	3H	16.7	17.8	17.1	18.2	18.6	16.7	17.8	17.1	18.2	18.6
	4H	16.6	17.6	17.0	18.0	18.5	16.6	17.6	17.0	18.0	18.5
	6H	16.4	17.7	16.9	18.1	18.6	16.4	17.7	16.9	18.1	18.6
	8H	16.3	17.7	16.8	18.2	18.6	16.3	17.7	16.8	18.2	18.6
	12H	16.1	17.7	16.6	18.2	18.7	16.1	17.7	16.6	18.2	18.7
8H	4H	16.3	17.7	16.8	18.2	18.6	16.3	17.7	16.8	18.2	18.6
	6H	16.1	17.6	16.6	18.1	18.6	16.1	17.6	16.6	18.1	18.6
	8H	16.1	17.4	16.6	17.9	18.4	16.1	17.4	16.6	17.9	18.4
	12H	16.2	17.1	16.7	17.6	18.1	16.2	17.1	16.7	17.6	18.1
12H	4H	16.1	17.7	16.6	18.2	18.7	16.1	17.7	16.6	18.2	18.7
	6H	16.1	17.4	16.6	17.9	18.4	16.1	17.4	16.6	17.9	18.4
	8H	16.2	17.1	16.7	17.6	18.1	16.2	17.1	16.7	17.6	18.1

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