Reflex

Design iGuzzini **iGuzzini**

Last information update: May 2024

Product configuration: N091
N091: adjustable luminaire - Ø 153 mm - neutral white - medium optic - frame

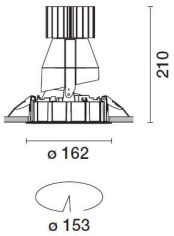
Product code
N091: adjustable luminaire - Ø 153 mm - neutral white - medium optic - frame **Attention! Code no longer in production**

Technical description
Round adjustable luminaire designed to use an LED lamp with C.O.B.technology in a neutral white colour tone 4000K. Version with rim for surface-mounting. Painted, die-cast aluminium body. Lower reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Anodised aluminium upper reflector. Black, zinc-plated sheet steel bracket. The luminaire can be rotated 30° relative to the horizontal plane and 358° about the vertical axis. The luminaire is fitted with mechanical locks for light beam aiming. Painted extruded aluminium dissipater.

Installation
Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 25 mm.

Colour
White / Aluminium (39)

Weight (Kg)
1.43



Mounting
ceiling recessed

Wiring
Product complete with electronic components

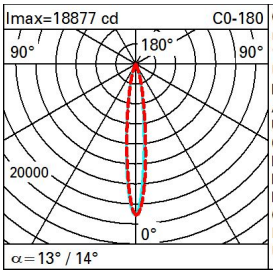
Complies with EN60598-1 and pertinent regulations

IP20 IP23 pending

Technical data

lm system:	1888	CRI (minimum):	80
W system:	23.7	Colour temperature [K]:	4000
lm source:	3100	MacAdam Step:	2
W source:	21	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	79.6	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.) [%]:	61	Number of optical assemblies:	1
Beam angle [°]:	13° / 14°		

Polar



CIE
nL 0.61
100-100-100-100-61
UGR <10-<10
DIN
A.61
UTE
0.61A+0.00T
F"1=995
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

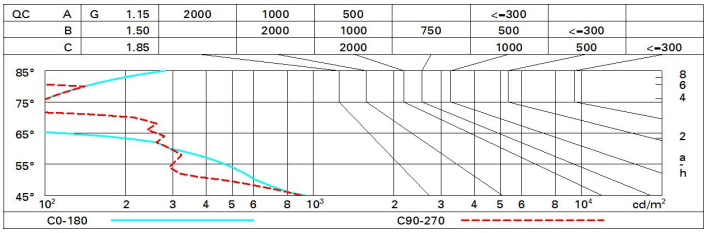
Lux

h	d1	d2	Em	Emax
2	0.5	0.5	3655	4719
4	0.9	1	914	1180
6	1.4	1.5	406	524
8	1.8	2	228	295

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	55	52	50	49	52	50	49	48	78
1.0	57	55	53	52	54	53	52	50	83
1.5	60	58	57	56	58	56	56	54	88
2.0	62	61	60	59	60	59	58	57	93
2.5	63	62	61	61	61	61	60	58	96
3.0	64	63	63	62	62	62	61	59	98
4.0	65	64	64	63	63	63	62	60	99
5.0	65	65	64	64	64	63	62	61	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3100 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	-3.0	-0.9	-2.6	-0.5	-0.2	-0.6	1.5	-0.2	1.8	2.2
	3H	-3.1	-1.6	-2.7	-1.3	-0.9	-0.7	0.8	-0.3	1.1	1.4
	4H	-3.1	-1.9	-2.7	-1.6	-1.3	-0.7	0.4	-0.4	0.7	1.1
	6H	-3.1	-2.3	-2.7	-1.9	-1.6	-0.8	0.0	-0.4	0.4	0.7
	8H	-3.0	-2.2	-2.7	-1.9	-1.5	-0.8	0.0	-0.4	0.4	0.7
	12H	-3.0	-2.1	-2.6	-1.8	-1.4	-0.9	-0.0	-0.5	0.3	0.7
4H	2H	-3.1	-1.9	-2.7	-1.6	-1.3	-0.7	0.4	-0.4	0.7	1.1
	3H	-3.2	-2.3	-2.8	-2.0	-1.6	-0.9	0.0	-0.5	0.4	0.8
	4H	-3.3	-2.3	-2.9	-1.9	-1.5	-1.0	-0.0	-0.6	0.4	0.8
	6H	-3.6	-1.9	-3.1	-1.4	-1.0	-1.4	0.3	-0.9	0.8	1.3
	8H	-3.6	-1.6	-3.1	-1.2	-0.7	-1.5	0.4	-1.0	0.9	1.4
	12H	-3.5	-1.5	-3.0	-1.0	-0.5	-1.6	0.4	-1.1	0.8	1.4
8H	4H	-3.8	-1.9	-3.3	-1.4	-0.9	-1.5	0.4	-1.0	0.9	1.4
	6H	-3.7	-2.0	-3.2	-1.5	-1.0	-1.5	0.2	-1.0	0.7	1.2
	8H	-3.4	-2.0	-2.9	-1.5	-1.0	-1.5	-0.1	-1.0	0.4	1.0
	12H	-2.9	-2.0	-2.4	-1.5	-1.0	-1.4	-0.4	-0.8	0.1	0.6
12H	4H	-3.9	-1.9	-3.4	-1.4	-0.9	-1.6	0.4	-1.1	0.9	1.4
	6H	-3.7	-2.2	-3.2	-1.8	-1.2	-1.5	-0.1	-1.0	0.4	1.0
	8H	-3.2	-2.3	-2.7	-1.8	-1.3	-1.3	-0.4	-0.8	0.1	0.6

Variations with the observer position at spacing:

S =			
	1.0H	3.6 / -3.8	6.4 / -9.1
	1.5H	6.1 / -4.7	9.1 / -9.8
	2.0H	8.0 / -5.0	11.1 / -10.1