Reflex

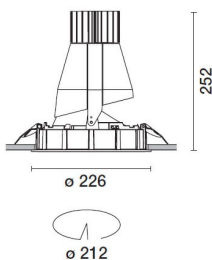**Design iGuzzini**   **iGuzzini**

Last information update: June 2023

Product configuration: N104
N104: adjustable luminaire - Ø 212 mm - warm white - flood optic - frame

Product code
N104: adjustable luminaire - Ø 212 mm - warm white - flood 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 warm white colour tone 3000K. Version without rim for mounting flush with ceiling. 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
Installation flush with the ceiling is for false ceilings 12.5 mm thick

Colour	**Weight (Kg)**
White / Aluminium (39)	1.9

Mounting
ceiling recessed

Wiring
Product complete with electronic components

Complies with EN60598-1 and pertinent regulations

IP20 IP23 CE ℗03 CCC S&E S EAC CIDET RAM S

Technical data

lm system:	3310	CRI (minimum):	80
W system:	36	Colour temperature [K]:	3000
lm source:	5100	MacAdam Step:	2
W source:	32	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	92	Ballast losses [W]:	4
		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.) [%]:	65	Number of optical assemblies:	1
Beam angle [°]:	32° / 31°		

Polar

Imax=10419 cd   C145-325

90°	180°	90°

CIE
nL 0.65
99-100-100-100-65
UGR <10-<10
DIN
A.61
UTE
0.65A+0.00T
F"1=991
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

α=32° / 31°

Lux				
h	d1	d2	Em	Emax
2	1.1	1.1	1993	2594
4	2.3	2.2	498	648
6	3.4	3.3	221	288
8	4.6	4.4	125	162

ø 226
252
ø 212

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	58	55	53	52	55	53	53	50	78
1.0	61	58	56	55	58	56	56	53	82
1.5	64	62	60	59	61	60	59	57	88
2.0	66	65	63	62	64	63	62	60	93
2.5	67	66	65	65	65	64	64	62	96
3.0	68	67	67	66	66	66	65	63	98
4.0	69	68	68	67	67	67	66	64	99
5.0	69	69	69	68	68	68	67	65	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
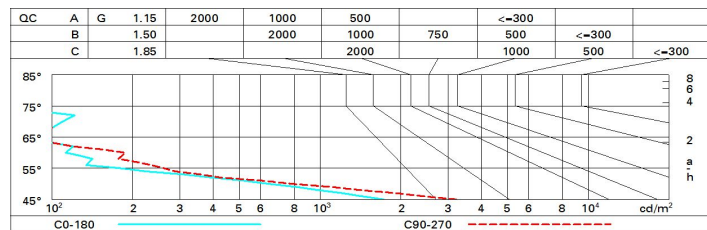
UGR diagram

Corrected UGR values (at 5100 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	7.2	7.8	7.5	8.0	8.2	5.7	6.3	6.0	6.5	6.7
	3H	7.1	7.6	7.4	7.9	8.1	5.6	6.1	5.9	6.4	6.6
	4H	7.0	7.5	7.3	7.8	8.1	5.5	6.0	5.9	6.3	6.6
	6H	6.9	7.4	7.3	7.7	8.0	5.5	5.9	5.8	6.2	6.5
	8H	6.9	7.3	7.3	7.6	8.0	5.4	5.8	5.8	6.2	6.5
	12H	6.9	7.3	7.2	7.6	7.9	5.4	5.8	5.8	6.1	6.5
4H	2H	7.0	7.5	7.3	7.8	8.1	5.5	6.0	5.9	6.3	6.6
	3H	6.9	7.3	7.2	7.6	8.0	5.4	5.8	5.8	6.1	6.5
	4H	6.8	7.1	7.2	7.5	7.9	5.3	5.6	5.7	6.0	6.4
	6H	6.7	7.0	7.1	7.4	7.8	5.2	5.5	5.6	5.9	6.3
	8H	6.7	6.9	7.1	7.3	7.8	5.2	5.4	5.6	5.9	6.3
	12H	6.6	6.9	7.1	7.3	7.7	5.1	5.4	5.6	5.8	6.3
8H	4H	6.7	6.9	7.1	7.3	7.8	5.2	5.4	5.6	5.9	6.3
	6H	6.6	6.8	7.0	7.2	7.7	5.1	5.3	5.5	5.7	6.2
	8H	6.5	6.7	7.0	7.2	7.7	5.0	5.2	5.5	5.7	6.2
	12H	6.4	6.6	7.0	7.1	7.6	5.0	5.1	5.5	5.6	6.1
12H	4H	6.6	6.9	7.1	7.3	7.7	5.1	5.4	5.6	5.8	6.2
	6H	6.5	6.7	7.0	7.2	7.7	5.0	5.2	5.5	5.7	6.2
	8H	6.4	6.6	7.0	7.1	7.6	5.0	5.1	5.5	5.6	6.1

Variations with the observer position at spacing:

S =	1.0H	6.3 / -17.3	4.4 / -14.5
	1.5H	9.1 / -18.8	7.2 / -18.5
	2.0H	11.1 / -20.7	9.2 / -22.0