Reflex

Design iGuzzini   **iGuzzini**

Last information update: May 2018

adjustable luminaire - Ø 96 mm - warm white - flood optic - minimal

Product code
N042

Technical description
Round adjustable luminaire designed to use an LED lamp with C.O.B.technology in a warm white colour tone 3000K CRI 90. 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

Dimension (mm)
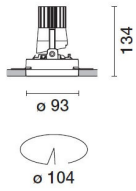Ø93x134

Colour
Aluminium (12)

Weight (Kg)
0.49

Mounting
ceiling recessed

Wiring
Product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP20   IP23

Product configuration: N042

Product characteristics

Total lighting output [Lm]: 598.8	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 16.3	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 36.7	Voltage [V]: -
Life Time: 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 40	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.3
Nominal power [W]: 14	Colour temperature [K]: 3000
Nominal luminous [Lm]: 1500	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 35°	MacAdam Step: 2

Polar

Imax=1694 cd   C150-330

CIE
nL 0.40
99-100-100-100-40
UGR <10-<10
DIN
A.61
UTE
0.40A+0.00T
F"1=991
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<500 cd/m² at 65°
BZ1

α=35°

Lux				
h	d1	d2	Em	Emax
2	1.3	1.3	325	423
4	2.5	2.5	81	106
6	3.8	3.8	36	47
8	5	5	20	26
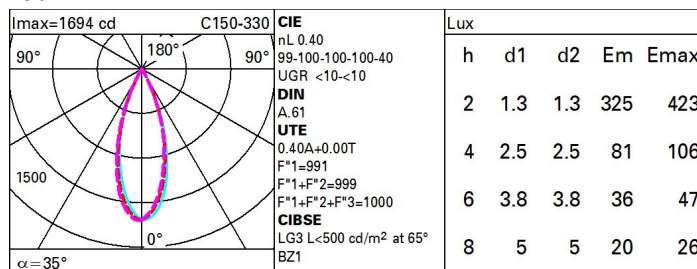
Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	36	34	33	32	34	33	32	31	78
1.0	38	36	35	34	35	34	34	33	82
1.5	39	38	37	36	38	37	36	35	88
2.0	41	40	39	38	39	39	38	37	93
2.5	41	41	40	40	40	40	39	38	96
3.0	42	41	41	41	41	40	40	39	98
4.0	42	42	42	42	41	41	41	40	99
5.0	43	42	42	42	42	42	41	40	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 - - - - - - -
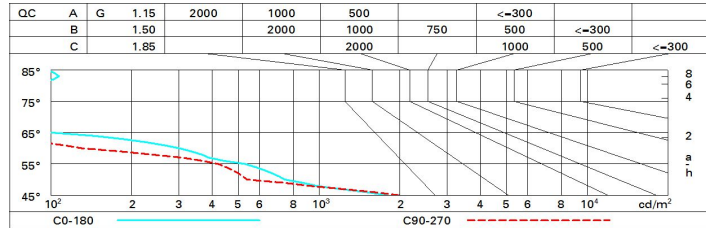
UGR diagram

Corrected UGR values (at 1500 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	4.2	4.7	4.4	4.9	5.2	4.6	5.1	4.8	5.3	5.6
	3H	4.0	4.5	4.3	4.8	5.1	4.4	4.9	4.7	5.2	5.5
	4H	4.0	4.4	4.3	4.7	5.0	4.4	4.8	4.7	5.1	5.4
	6H	3.9	4.3	4.2	4.6	4.9	4.3	4.7	4.6	5.0	5.4
	8H	3.8	4.3	4.2	4.6	4.9	4.3	4.7	4.6	5.0	5.3
	12H	3.8	4.2	4.2	4.5	4.9	4.2	4.6	4.6	4.9	5.3
4H	2H	4.0	4.4	4.3	4.7	5.0	4.4	4.8	4.7	5.1	5.4
	3H	3.8	4.2	4.2	4.6	4.9	4.2	4.6	4.6	4.9	5.3
	4H	3.7	4.1	4.1	4.4	4.8	4.1	4.5	4.5	4.8	5.2
	6H	3.6	4.0	4.1	4.3	4.8	4.0	4.3	4.5	4.7	5.2
	8H	3.6	3.9	4.0	4.3	4.7	4.0	4.3	4.4	4.7	5.1
	12H	3.6	3.8	4.0	4.2	4.7	3.9	4.2	4.4	4.6	5.1
8H	4H	3.6	3.9	4.0	4.3	4.7	4.0	4.3	4.4	4.7	5.1
	6H	3.5	3.7	4.0	4.2	4.7	3.9	4.1	4.4	4.6	5.1
	8H	3.5	3.7	3.9	4.1	4.6	3.9	4.1	4.3	4.5	5.0
	12H	3.4	3.6	3.9	4.1	4.6	3.8	4.0	4.3	4.5	5.0
12H	4H	3.5	3.8	4.0	4.2	4.7	4.0	4.2	4.4	4.6	5.1
	6H	3.5	3.7	3.9	4.1	4.6	3.9	4.1	4.3	4.5	5.0
	8H	3.4	3.6	3.9	4.1	4.6	3.8	4.0	4.3	4.5	5.0

Variations with the observer position at spacing:

S =	1.0H	5.3 / -10.0	5.0 / -11.3
	1.5H	8.0 / -12.5	7.8 / -17.1
	2.0H	10.0 / -15.8	9.8 / -17.3