Reflex

Design iGuzzini   **iGuzzini**
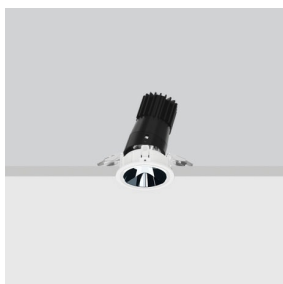
Last information update: May 2018

adjustable luminaire - Ø 75 mm - neutral white - medium optic - frame

Product code
N063

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.

Dimension (mm)
Ø82x124

Colour
White/Aluminium (39)

Weight (Kg)
0.45

Mounting
ceiling recessed

Wiring
Product complete with electronic components

Complies with EN60598-1 and pertinent regulations

IP20   IP23

Product configuration: N063
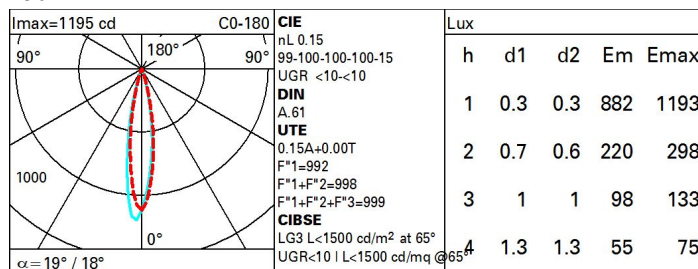

Product characteristics

Total lighting output [Lm]: 150	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 9	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 16.6	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.) [%]: 15	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.8
Nominal power [W]: 6.2	Colour temperature [K]: 4000
Nominal luminous [Lm]: 1000	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 19° / 18°	MacAdam Step: 2

Polar

Imax=1195 cd   C0-180

90°   180°   90°

1000

α = 19° / 18°   0°

CIE
nL 0.15
99-100-100-100-15
UGR <10-<10
DIN
A.61
UTE
0.15A+0.00T
F"1=992
F"1+F"2=998
F"1+F"2+F"3=999
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

Lux				
h	d1	d2	Em	Emax
1	0.3	0.3	882	1193
2	0.7	0.6	220	298
3	1	1	98	133
4	1.3	1.3	55	75

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	13	13	12	12	13	12	12	12	78
1.0	14	13	13	13	13	13	13	12	82
1.5	15	14	14	14	14	14	14	13	88
2.0	15	15	15	14	15	14	14	14	93
2.5	16	15	15	15	15	15	15	14	95
3.0	16	16	15	15	15	15	15	15	97
4.0	16	16	16	16	15	15	15	15	99
5.0	16	16	16	16	16	16	15	15	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 - - - - - - -
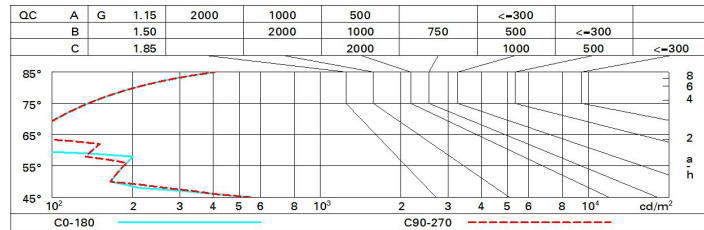
UGR diagram

Corrected UGR values (at 1000 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	-1.5	0.5	-1.2	0.8	1.2	4.4	6.4	4.7	6.7	7.0
	3H	-1.6	-0.1	-1.2	0.2	0.5	4.2	5.7	4.6	6.0	6.3
	4H	-1.5	-0.4	-1.1	-0.1	0.3	4.2	5.3	4.6	5.6	6.0
	6H	-1.4	-0.5	-1.0	-0.2	0.1	4.2	5.0	4.5	5.3	5.6
	8H	-1.2	-0.4	-0.9	-0.1	0.3	4.1	4.9	4.5	5.3	5.6
	12H	-1.1	-0.2	-0.7	0.2	0.6	4.0	4.9	4.4	5.3	5.6
4H	2H	-1.6	-0.5	-1.3	-0.2	0.2	4.2	5.3	4.6	5.7	6.0
	3H	-1.6	-0.8	-1.2	-0.4	-0.0	4.1	5.0	4.5	5.3	5.7
	4H	-1.6	-0.7	-1.2	-0.3	0.1	3.9	4.9	4.4	5.3	5.7
	6H	-1.7	-0.0	-1.2	0.4	0.9	3.6	5.2	4.1	5.7	6.2
	8H	-1.5	0.3	-1.0	0.8	1.3	3.5	5.3	4.0	5.8	6.3
	12H	-1.2	0.7	-0.7	1.2	1.7	3.4	5.3	3.9	5.8	6.3
8H	4H	-2.0	-0.2	-1.5	0.3	0.8	3.6	5.4	4.1	5.9	6.4
	6H	-1.7	0.0	-1.1	0.5	1.1	3.5	5.2	4.0	5.7	6.2
	8H	-1.2	0.2	-0.7	0.7	1.2	3.6	5.0	4.1	5.5	6.0
	12H	-0.5	0.5	0.0	1.0	1.5	3.7	4.7	4.2	5.2	5.7
12H	4H	-2.1	-0.2	-1.6	0.3	0.8	3.6	5.5	4.1	6.0	6.5
	6H	-1.5	-0.1	-1.0	0.4	0.9	3.7	5.1	4.2	5.6	6.1
	8H	-1.0	0.0	-0.5	0.5	1.0	3.8	4.8	4.4	5.3	5.9

Variations with the observer position at spacing:			
S =	1.0H	3.2 / -2.5	8.1 / -6.6
	1.5H	5.6 / -2.8	10.8 / -6.8
	2.0H	7.4 / -3.0	12.8 / -7.1