

## Reflex

Design iGuzzini

iGuzzini

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adjustable luminaire - Ø 212 mm - warm white - medium optic - frame

**Product code**  
N109

### 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 with rim for surface-mounting. 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)**  
Ø226x252

**Colour**  
White/Aluminium (39)

**Weight (Kg)**  
1.95

**Mounting**  
ceiling recessed

**Wiring**  
Product complete with DALI components

Complies with EN60598-1 and pertinent regulations



**Product configuration: N109**

### Product characteristics

Total lighting output [Lm]: 3440  
Total power [W]: 45.1  
Luminous efficacy [Lm/W]: 76.3  
Life Time: 50,000h - L80 - B10 (Ta 25°C)

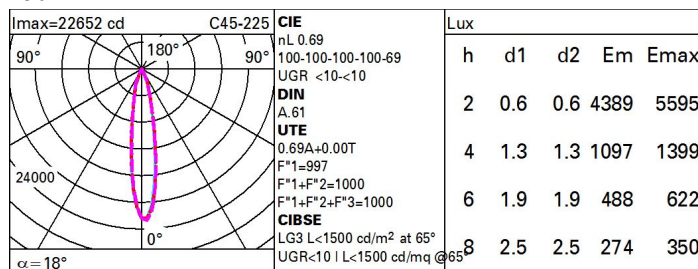
Total luminous flux at or above an angle of 90° [Lm]: 0  
Emergency luminous flux [Lm]: /  
Voltage [V]: -  
Number of optical assemblies: 1

### Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 69  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 42  
Nominal luminous [Lm]: 5000  
Lamp maximum intensity [cd]: /  
Beam angle [°]: 18°

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 3.1  
Colour temperature [K]: 3000  
CRI: 90  
Wavelength [Nm]: /  
MacAdam Step: 2

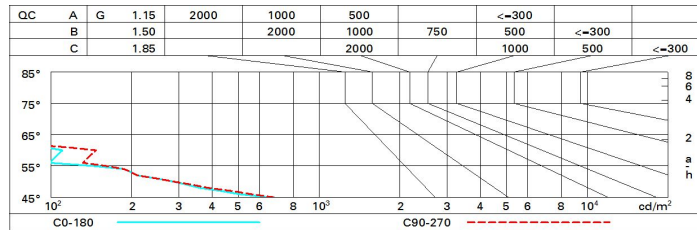
### Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	62	59	57	55	58	56	56	54	78
1.0	65	62	60	58	61	59	59	57	83
1.5	68	66	64	63	65	64	63	61	89
2.0	70	69	67	66	68	66	66	64	93
2.5	71	70	69	69	69	68	68	66	96
3.0	72	71	71	70	70	70	69	67	98
4.0	73	72	72	72	71	71	70	68	99
5.0	74	73	73	73	72	72	71	69	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 5000 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling/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	-4.4	-2.3	-4.1	-2.0	-1.7	-2.8	-0.7	-2.5	-0.4	-0.0
	3H	-4.6	-3.0	-4.2	-2.7	-2.3	-3.0	-1.4	-2.6	-1.0	-0.7
	4H	-4.6	-3.3	-4.2	-3.0	-2.7	-3.0	-1.7	-2.6	-1.4	-1.0
	6H	-4.7	-3.7	-4.3	-3.4	-3.0	-3.0	-2.1	-2.7	-1.7	-1.4
	8H	-4.7	-3.7	-4.3	-3.4	-3.0	-3.1	-2.1	-2.7	-1.8	-1.4
	12H	-4.8	-3.8	-4.4	-3.4	-3.0	-3.2	-2.2	-2.8	-1.8	-1.4
4H	2H	-4.6	-3.3	-4.3	-3.0	-2.7	-3.0	-1.7	-2.6	-1.4	-1.0
	3H	-4.8	-3.8	-4.3	-3.4	-3.0	-3.1	-2.2	-2.7	-1.8	-1.4
	4H	-4.9	-3.9	-4.5	-3.5	-3.1	-3.3	-2.2	-2.9	-1.9	-1.4
	6H	-5.3	-3.5	-4.8	-3.1	-2.6	-3.6	-1.9	-3.2	-1.5	-1.0
	8H	-5.4	-3.5	-4.9	-3.0	-2.5	-3.8	-1.9	-3.3	-1.4	-0.9
	12H	-5.5	-3.5	-5.0	-3.0	-2.5	-3.9	-1.9	-3.4	-1.4	-0.9
8H	4H	-5.4	-3.5	-4.9	-3.0	-2.5	-3.8	-1.9	-3.3	-1.4	-0.9
	6H	-5.5	-3.7	-5.0	-3.2	-2.7	-3.9	-2.1	-3.4	-1.6	-1.1
	8H	-5.5	-3.9	-5.0	-3.4	-2.9	-3.9	-2.3	-3.4	-1.8	-1.3
	12H	-5.3	-4.4	-4.8	-3.9	-3.3	-3.7	-2.8	-3.2	-2.3	-1.7
12H	4H	-5.5	-3.5	-5.0	-3.0	-2.5	-3.9	-1.9	-3.4	-1.4	-0.9
	6H	-5.5	-3.9	-5.0	-3.4	-2.9	-3.9	-2.3	-3.4	-1.8	-1.3
	8H	-5.3	-4.4	-4.8	-3.9	-3.3	-3.7	-2.8	-3.2	-2.3	-1.7
Variations with the observer position at spacing:											
S =	1.0H	4.7 / -12.2					4.6 / -11.5				
	1.5H	7.5 / -15.8					7.4 / -15.9				
	2.0H	9.5 / -15.3					9.3 / -16.8				