

## Reflex

Design iGuzzini

iGuzzini

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**Fixed circular recessed luminaire - Ø212 mm - warm white - medium optic - UGR<10**

**Product code**  
M636

### Technical description

Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Optic with supercomfort reflector vacuum-metallised with aluminium vapours and an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone CRI 90 (3000K). General light emission, with controlled luminance UGR<10 1500 cd/m<sup>2</sup> α>65° medium optic.

### Installation

Recessed using torsion springs which allow easy installation in false ceilings with thicknesses ranging from 1 mm to 20 mm.

**Dimension (mm)**  
Ø226x150

**Colour**  
White/Aluminium (39)

**Weight (Kg)**  
1.95

**Mounting**  
ceiling recessed

**Wiring**  
product complete with DALI components

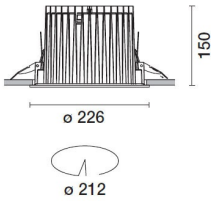
Complies with EN60598-1 and pertinent regulations



IP20

IP54

On the visible part of the product once installed



**Product configuration: M636**

### Product characteristics

Total lighting output [Lm]: 4800  
Total power [W]: 57.8  
Luminous efficacy [Lm/W]: 83  
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.) [%]: 80  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 52  
Nominal luminous [Lm]: 6000  
Lamp maximum intensity [cd]: /  
Beam angle [°]: 18°

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 5.8  
Colour temperature [K]: 3000  
CRI: 90  
Wavelength [Nm]: /  
MacAdam Step: 2

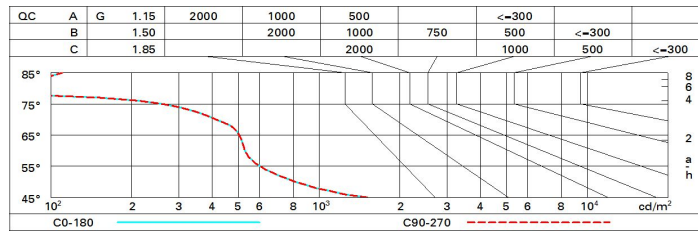
### Polar

Imax=31062 cd	CIE nL 0.80 99-100-100-100-80 UGR <10-<10 DIN A.61 UTE 0.80A+0.00T F*1=993 F*1+F*2=998 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m <sup>2</sup> at 65° UGR<10   L<1500 cd/m <sup>2</sup> @65°	Lux			
		h	d	Em	Emax
90°	180°	2	0.6	6074	7766
30000	0°	4	1.3	1519	1941
α=18°		6	1.9	675	863
		8	2.5	380	485

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	68	66	64	68	65	65	62	78
1.0	75	72	69	68	71	69	69	66	83
1.5	79	76	74	73	76	74	73	71	88
2.0	81	80	78	77	79	77	76	74	93
2.5	83	82	81	80	80	79	79	76	96
3.0	84	83	82	81	82	81	80	78	98
4.0	85	84	84	83	83	83	81	79	99
5.0	85	85	85	84	84	83	82	80	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 6000 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	2.1	4.2	2.5	4.5	4.8	2.1	4.2	2.5	4.5	4.8
	3H	2.1	3.7	2.5	4.0	4.4	2.0	3.6	2.4	3.9	4.2
	4H	2.1	3.4	2.5	3.7	4.1	2.0	3.3	2.4	3.6	4.0
	6H	2.1	3.1	2.5	3.4	3.8	2.0	3.0	2.4	3.3	3.7
	8H	2.0	3.1	2.4	3.4	3.8	1.9	2.9	2.3	3.3	3.7
	12H	2.0	3.0	2.4	3.4	3.8	1.9	2.9	2.3	3.3	3.6
4H	2H	2.0	3.3	2.4	3.6	4.0	2.1	3.4	2.5	3.7	4.1
	3H	2.1	3.1	2.5	3.5	3.9	2.1	3.2	2.5	3.5	3.9
	4H	2.0	3.1	2.5	3.5	3.9	2.0	3.1	2.5	3.5	3.9
	6H	1.7	3.4	2.2	3.9	4.3	1.7	3.4	2.2	3.9	4.4
	8H	1.6	3.5	2.1	3.9	4.4	1.6	3.5	2.1	4.0	4.5
	12H	1.5	3.4	2.0	3.9	4.4	1.5	3.4	2.0	3.9	4.4
8H	4H	1.6	3.5	2.1	4.0	4.5	1.6	3.5	2.1	3.9	4.4
	6H	1.5	3.3	2.0	3.7	4.3	1.5	3.3	2.0	3.7	4.3
	8H	1.5	3.0	2.0	3.5	4.1	1.5	3.0	2.0	3.5	4.1
	12H	1.7	2.6	2.2	3.1	3.6	1.7	2.6	2.2	3.1	3.6
12H	4H	1.5	3.4	2.0	3.9	4.4	1.5	3.4	2.0	3.9	4.4
	6H	1.5	3.0	2.0	3.5	4.0	1.5	3.0	2.0	3.5	4.1
	8H	1.7	2.6	2.2	3.1	3.6	1.7	2.6	2.2	3.1	3.6
Variations with the observer position at spacing:											
S =	1.0H	4.9 / -5.1					4.9 / -5.1				
	1.5H	7.6 / -5.8					7.6 / -5.8				
	2.0H	9.5 / -6.2					9.5 / -6.2				