Design iGuzzini

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Last information update: June 2018



Fixed round recessed luminaire - Ø212 mm - warm white - wide flood optic

## Product code

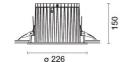
**MM98** 

#### Technical description

Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone (4,000K). General light emission, with controlled luminance UGR<19 1500 cd/m2  $\alpha$ >65° wide flood optic.

#### Installation

Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 25 mm



### Dimension (mm) Ø226x150

### Colour

White/Aluminium (39)

## Weight (Kg)

2.03

## Mounting

ceiling recessed

### Wiring

Product complete with electronic components

Complies with EN60598-1 and pertinent regulations





















## Product configuration: MM98

## Product characteristics

Total lighting output [Lm]: 4297 Total power [W]: 35.9 Luminous efficacy [Lm/W]: 119.7

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.) [%]: 86 Lamp code: LED

ZVEI Code: LED Nominal power [W]: 33 Nominal luminous [Lm]: 5000 Lamp maximum intensity [cd]: / Beam angle [°]: 56°

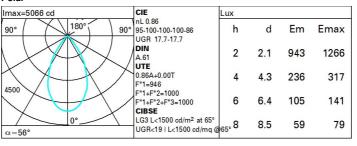
Number of lamps for optical assembly: 1

Socket: /

Ballast losses [W]: 2.9 Colour temperature [K]: 3000

CRI: 80 Wavelength [Nm]: / MacAdam Step: 2

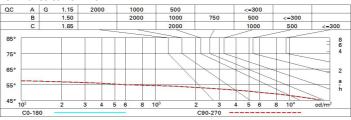
## Polar



## **Utilisation factors**

R	77	75	73	71	55	53	33	00	DRR
K0.8	76	71	68	65	70	67	67	64	74
1.0	79	75	72	70	74	72	71	68	80
1.5	84	81	79	77	80	78	77	74	86
2.0	87	85	83	81	83	82	81	78	91
2.5	89	87	85	84	86	84	83	81	94
3.0	90	88	87	86	87	86	85	83	96
4.0	91	90	89	88	88	88	86	84	98
5.0	91	91	90	90	89	89	87	85	99

## Luminance curve limit



# UGR diagram

	000000000000000000000000000000000000000		(0.00) 8.00(00)									
Rifled	ct.:											
ceil/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	
		0.50 0.20	0.30 0.20	0.50 0.20	0.30	0.30	0.50 0.20	0.30	0.50	0.30 0.20	0.30 0.20	
		crosswise					endwise					
		2H	2H	18.3	19.0	18.6	19.2	19.5	18.3	19.0	18.6	19.2
	ЗН	18.2	18.8	18.5	19.0	19.3	18.2	18.8	18.5	19.0	19.	
	4H	18.1	18.6	18.4	18.9	19.2	18.1	18.7	18.4	18.9	19.	
	бН	18.0	18.5	18.4	18.8	19.2	18.0	18.5	18.4	18.8	19.	
	HS	18.0	18.5	18.3	18.8	19.1	18.0	18.5	18.3	18.8	19.	
	12H	17.9	18.4	18.3	18.7	19.1	17.9	18.4	18.3	18.7	19.	
4H	2H	18.1	18.7	18.4	18.9	19.2	18.1	18.6	18.4	18.9	19.	
	ЗН	17.9	18.4	18.3	18.7	19.1	17.9	18.4	18.3	18.7	19.	
	4H	17.8	18.3	18.2	18.6	19.0	17.8	18.3	18.2	18.6	19.	
	6H	17.8	18.1	18.2	18.5	18.9	17.8	18.1	18.2	18.5	18.9	
	HS	17.7	18.0	18.1	18.5	18.9	17.7	18.0	18.1	18.5	18.	
	12H	17.7	18.0	18.1	18.4	18.9	17.7	18.0	18.1	18.4	18.	
вн	4H	17.7	18.0	18.1	18.5	18.9	17.7	18.0	18.1	18.5	18.	
	6H	17.6	17.9	18.1	18.3	18.8	17.6	17.9	18.1	18.3	18.	
	HS	17.6	17.8	18.0	18.3	18.8	17.6	17.8	18.0	18.3	18.	
	12H	17.5	17.7	18.0	18.2	18.7	17.5	17.7	18.0	18.2	18.	
12H	4H	17.7	18.0	18.1	18.4	18.9	17.7	18.0	18.1	18.4	18.	
	бН	17.6	17.8	18.0	18.3	18.8	17.6	17.8	18.0	18.3	18.	
	HS	17.5	17.7	18.0	18.2	18.7	17.5	17.7	18.0	18.2	18.	
Varia	tions wi	th the ob	server p	osition	at spacin	g:	100					
S =	1.0H	4.5 / -24.2					4.5 / -24.2					
	1.5H	7.2 / -33.8					7.2 / -33.8					
	2.0H		9.	2 / -34	2			9	.2 / -34	.2		