Design iGuzzini

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15 - cell Frameless Recessed luminaire - LED - Warm white - Incorporated DALI dimmable power supply - Flood optic

## Product code

MM89

#### Technical description

rectangular miniaturised recessed luminaire with 15 optical elements with LED lamps - fixed optics - flood beam angle. Main body with die-cast aluminium radiant surface; minimal (frameless) version for mounting flush with the ceiling. Metallised thermoplastic high definition optics, integrated in a rear position in the black anti-glare screen; the structure of the optical system prevents a pinpoint effect, allowing precise, circular light distribution and emission with controlled glare . Supplied with DALI dimmable electronic control gear connected to the luminaire. Warm white high colour rendering LED

290 396 



# Installation

recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter fixed to false ceiling (12.5 mm thick) with self-tapping screws; subsequent filling and smoothing operations; insertion of luminaire body and aesthetic finishing. Preparation hole 35 x 403

## Dimension (mm)

396x30x56

#### Colour

White (01) | Black (04)

## Weight (Kg)

## Mounting

wall recessed|ceiling recessed

# Wiring

on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations



















# **Product configuration: MM89**

## **Product characteristics**

Total lighting output [Lm]: 2037

Total power [W]: 35

Luminous efficacy [Lm/W]: 58.2 Life Time: 50,000h - L90 - B10 (Ta 25°C)

Voltage [V]:

## Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 80

Lamp code: LED ZVEI Code: LED Nominal power [W]: 31 Nominal luminous [Lm]: 2550 Lamp maximum intensity [cd]: /

Beam angle [°]: 32°

Total luminous flux at or above an angle of 90° [Lm]: 0

Emergency luminous flux [Lm]: /

Number of optical assemblies: 1

Number of lamps for optical assembly: 1

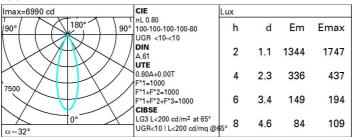
Socket: /

Ballast losses [W]: 4 Colour temperature [K]: 2700

CRI: 95

Wavelength [Nm]: / MacAdam Step: 3

## Polar



## **Utilisation factors**

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	69	66	64	68	66	65	63	78
1.0	75	72	70	68	71	69	69	66	83
1.5	79	77	75	73	76	74	73	71	89
2.0	81	80	78	77	79	77	76	74	93
2.5	83	82	81	80	80	79	79	77	96
3.0	84	83	82	81	82	81	80	78	98
4.0	85	84	84	83	83	82	81	79	99
5.0	85	85	85	84	84	83	82	80	100

## UGR diagram

Rifled	ct.:											
ceil/cav walls work pl. Room dim		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	
		0.50	0.30	0.50 0.20	0.30	0.30	0.50 0.20	0.30	0.50	0.30	0.30	
												viewed
		x	У	crosswise					endwise			
2H	2H	-3.7	-3.2	-3.4	-3.0	-2.7	-3.7	-3.2	-3.4	-3.0	-2.7	
	ЗН	-3.8	-3.4	-3.5	-3.1	-2.8	-3.8	-3.4	-3.5	-3.1	-2.8	
	4H	-3.9	-3.5	-3.6	-3.2	-2.9	-3.9	-3.5	-3.6	-3.2	-2.9	
	бН	-4.0	-3.6	-3.6	-3.3	-3.0	-4.0	-3.6	-3.6	-3.3	-3.0	
	ВН	-4.0	-3.6	-3.7	-3.3	-3.0	-4.0	-3.6	-3.7	-3.3	-3.0	
	12H	-4.1	-3.7	-3.7	-3.4	-3.0	-4.1	-3.7	-3.7	-3.4	-3.0	
4H	2H	-3.9	-3.5	-3.6	-3.2	-2.9	-3.9	-3.5	-3.6	-3.2	-2.9	
	ЗН	-4.1	-3.7	-3.7	-3.4	-3.0	-4.1	-3.7	-3.7	-3.4	-3.0	
	4H	-4.2	-3.8	-3.8	-3.5	-3.1	-4.2	-3.8	-3.8	-3.5	-3.1	
	бН	-4.2	-4.0	-3.8	-3.6	-3.1	-4.2	-4.0	-3.8	-3.6	-3.1	
	H8	-4.3	-4.0	-3.9	-3.6	-3.2	-4.3	-4.0	-3.9	-3.6	-3.2	
	12H	-4.3	-4.1	-3.9	-3.7	-3.2	-4.3	-4.1	-3.9	-3.7	-3.2	
вн	4H	-4.3	-4.0	-3.9	-3.6	-3.2	-4.3	-4.0	-3.9	-3.6	-3.2	
	6H	-4.4	-4.2	-3.9	-3.7	-3.2	-4.4	-4.2	-3.9	-3.7	-3.2	
	HS	-4.4	-4.3	-4.0	-3.8	-3.3	-4.4	-4.3	-4.0	-3.8	-3.3	
	12H	-4.5	-4.3	-4.0	-3.8	-3.3	-4.5	-4.3	-4.0	-3.8	-3.3	
12H	4H	-4.3	-4.1	-3.9	-3.7	-3.2	-4.3	-4.1	-3.9	-3.7	-3.2	
	бН	-4.4	-4.3	-4.0	-3.8	-3.3	-4.4	-4.3	-4.0	-3.8	-3.3	
	H8	-4.5	-4.3	-4.0	-3.8	-3.3	-4.5	-4.3	-4.0	-3.8	-3.3	
Varia	tions wi	th the ob	oserver p	noitieo	at spacin	ıg:						
S =	1.0H	6.8 / -18.5					6.8 / -18.5					
	1.5H	9.6 / -18.7					9.6 / -18.7					
	2.0H	11.6 / -23.0					11.6 / -23.0					