Design iGuzzini

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Last information update: May 2024

Product configuration: MM83

MM83: Square, Frameless, Recessed luminaire - Warm white LED - Flood optic



Product code

MM83: Square, Frameless, Recessed luminaire - Warm white LED - Flood optic Attention! Code no longer in production

Technical description

square, miniaturised, recessed luminaire for an individual LED - fixed optic - flood beam angle. Die-cast aluminium body, minimal version (frameless). Metallised, thermoplastic, high definition optic, integrated in a rear position in the black, anti-glare screen. Connecting cable supplied. Ballast not included, available with separate code. High CRI, warm white LED.

Installation

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



35x35

Mounting

wall recessed|ceiling recessed|ceiling surface

White (01) | Black (04) | Burnished chrome (E6)

Wiring

Direct current ballasts to be ordered separately: electronic (MXF9) for max. 7 LEDs; DALI dimmable (BZM4) for max. 15 LEDs (check instruction leaflet for compatible lengths of cables to be used)











Weight (Kg)

0.07





Complies with EN60598-1 and pertinent regulations

On the visible part of the product once installed IP23

Technical data					
Im system:	141	CRI (typical):	97		
W system:	2.1	Colour temperature [K]:	2700		
Im source:	170	MacAdam Step:	3		
W source:	2.1	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)		
Luminous efficiency (lm/W,	67.1	Lamp code:	LED		
real value):		Number of lamps for optical	1		
Im in emergency mode:	-	assembly:			
Total light flux at or above	0	ZVEI Code:	LED		
an angle of 90° [Lm]:		Number of optical	1		
Light Output Ratio (L.O.R.)	83	assemblies:			
[%]:		LED current [mA]:	700		
Beam angle [°]:	32°	Control:	DALI		
CRI (minimum):	95				

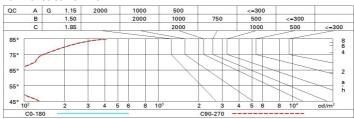
Polar

Imax=473 cd	CIE	Lux			
90° 180° 90°	nL 0.83 100-100-100-100-83	h	d	Em	Emax
	UGR <10-<10 DIN A.61	1	0.6	368	473
	UTE 0.83A+0.00T F"1=999	2	1.1	92	118
525	F"1+F"2=999 F"1+F"2+F"3=1000 CIBSE	3	1.7	41	53
α=32°	LG3 L<1500 cd/m² at 65° UGR<10 L<1500 cd/mq @	965° 4	2.3	23	30

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	75	71	68	66	70	68	68	65	78
1.0	78	75	72	70	74	72	71	69	83
1.5	82	79	77	76	78	77	76	73	89
2.0	84	83	81	80	81	80	79	77	93
2.5	86	85	84	83	83	82	82	79	96
3.0	87	86	85	85	85	84	83	81	98
4.0	88	87	87	86	86	86	84	82	99
5.0	89	88	88	87	87	86	85	83	100

Luminance curve limit



2H 3H 4H 6H 3H 4H 6H	0.70 0.50 0.20 -3.3 -3.3 -3.3 -3.3 -3.3 -3.2 -3.4 -3.5 -3.5	-2.7 -2.9 -2.9 -2.9 -2.9 -2.8 -3.0 -3.1	0.50 0.50 0.20 viewed crosswis -3.0 -3.0 -3.0 -2.9 -2.8		0.30 0.30 0.20 -2.3 -2.3 -2.3 -2.3 -2.2 -2.1	0.70 0.50 0.20 -3.3 -3.4 -3.4 -3.5 -3.5 -3.6	0.70 0.30 0.20 -2.7 -2.9 -3.0 -3.1 -3.2 -3.2	0.50 0.50 0.20 viewed endwise -3.0 -3.1 -3.1 -3.2 -3.2 -3.2	-2.5 -2.6 -2.7 -2.8 -2.8 -2.9	0.30 0.30 0.20 -2.3 -2.4 -2.5 -2.5
2H 3H 4H 6H 8H 112H 2H 3H 4H	-3.3 -3.3 -3.3 -3.3 -3.3 -3.2 -3.4 -3.5	-2.7 -2.9 -2.9 -2.9 -2.9 -2.9 -3.0 -3.1	0.50 0.20 viewed crosswis -3.0 -3.0 -3.0 -2.9 -2.8	0.30 0.20 e -2.5 -2.6 -2.6 -2.6 -2.5 -2.5	-2.3 -2.3 -2.3 -2.3 -2.2 -2.1	-3.3 -3.4 -3.4 -3.5 -3.5 -3.6	-2.7 -2.9 -3.0 -3.1 -3.2 -3.2	0.50 0.20 viewed endwise -3.0 -3.1 -3.1 -3.2 -3.2	-2.5 -2.6 -2.7 -2.8 -2.8	-2.3 -2.4 -2.4 -2.5
2H 3H 4H 6H 8H 12H 2H 3H 4H	-3.3 -3.3 -3.3 -3.3 -3.3 -3.2 -3.4 -3.5	-2.7 -2.9 -2.9 -2.9 -2.9 -2.8 -3.0 -3.1	0.20 viewed crosswis -3.0 -3.0 -3.0 -3.0 -2.9 -2.8	0.20 e -2.5 -2.6 -2.6 -2.6 -2.5 -2.5	-2.3 -2.3 -2.3 -2.3 -2.2 -2.1	-3.3 -3.4 -3.4 -3.5 -3.5	-2.7 -2.9 -3.0 -3.1 -3.2 -3.2	0.20 viewed endwise -3.0 -3.1 -3.1 -3.2 -3.2	-2.5 -2.6 -2.7 -2.8 -2.8	-2.3 -2.4 -2.5 -2.5
2H 3H 4H 6H 8H 12H 2H 3H 4H	-3.3 -3.3 -3.3 -3.3 -3.2 -3.4 -3.5	-2.7 -2.9 -2.9 -2.9 -2.9 -2.8 -3.0 -3.1	-3.0 -3.0 -3.0 -3.0 -3.0 -2.9 -2.8	-2.5 -2.6 -2.6 -2.6 -2.6 -2.5	-2.3 -2.3 -2.3 -2.3 -2.2 -2.1	-3.3 -3.4 -3.4 -3.5 -3.5 -3.6	-2.7 -2.9 -3.0 -3.1 -3.2	-3.0 -3.1 -3.1 -3.2 -3.2	-2.5 -2.6 -2.7 -2.8 -2.8	-2.3 -2.4 -2.5 -2.5
2H 3H 4H 6H 8H 12H 2H 3H 4H	-3.3 -3.3 -3.3 -3.2 -3.4 -3.5	-2.7 -2.9 -2.9 -2.9 -2.9 -2.8 -3.0 -3.1	-3.0 -3.0 -3.0 -3.0 -3.0 -2.9 -2.8	-2.5 -2.6 -2.6 -2.6 -2.6 -2.5	-2.3 -2.3 -2.3 -2.2 -2.1	-3.4 -3.4 -3.5 -3.5 -3.6	-2.7 -2.9 -3.0 -3.1 -3.2 -3.2	-3.0 -3.1 -3.1 -3.2 -3.2 -3.2	-2.5 -2.6 -2.7 -2.8 -2.8 -2.9	-2.4 -2.4 -2.5
2H 3H 4H 6H 8H 12H 2H 3H 4H	-3.3 -3.3 -3.3 -3.2 -3.4 -3.5	-2.7 -2.9 -2.9 -2.9 -2.9 -2.8 -3.0 -3.1	-3.0 -3.0 -3.0 -3.0 -2.9 -2.8	-2.5 -2.6 -2.6 -2.6 -2.6 -2.5	-2.3 -2.3 -2.3 -2.2 -2.1	-3.4 -3.4 -3.5 -3.5 -3.6	-2.7 -2.9 -3.0 -3.1 -3.2 -3.2	-3.0 -3.1 -3.1 -3.2 -3.2 -3.2	-2.5 -2.6 -2.7 -2.8 -2.8 -2.9	-2.4 -2.4 -2.5
3H 4H 6H 8H 12H 2H 3H 4H	-3.3 -3.3 -3.3 -3.2 -3.4 -3.5	-2.9 -2.9 -2.9 -2.9 -2.8 -3.0 -3.1	-3.0 -3.0 -3.0 -2.9 -2.8	-2.6 -2.6 -2.6 -2.5 -2.7	-2.3 -2.3 -2.3 -2.2 -2.1	-3.4 -3.4 -3.5 -3.5 -3.6	-2.9 -3.0 -3.1 -3.2 -3.2	-3.1 -3.1 -3.2 -3.2 -3.2	-2.6 -2.7 -2.8 -2.8 -2.9	-2.4 -2.4 -2.5
4H 6H 8H 12H 2H 3H 4H	-3.3 -3.3 -3.2 -3.4 -3.5	-2.9 -2.9 -2.9 -2.8 -3.0 -3.1	-3.0 -3.0 -2.9 -2.8	-2.6 -2.6 -2.6 -2.5	-2.3 -2.3 -2.2 -2.1	-3.4 -3.5 -3.5 -3.6	-3.0 -3.1 -3.2 -3.2	-3.1 -3.2 -3.2 -3.2	-2.7 -2.8 -2.8 -2.9	-2.5 -2.5
6H 8H 12H 2H 3H 4H	-3.3 -3.3 -3.2 -3.4 -3.5	-2.9 -2.9 -2.8 -3.0 -3.1	-3.0 -2.9 -2.8	-2.6 -2.6 -2.5	-2.3 -2.2 -2.1	-3.5 -3.5 -3.6	-3.1 -3.2 -3.2	-3.2 -3.2 -3.2	-2.8 -2.8 -2.9	-2.5 -2.5
2H 3H 4H	-3.3 -3.2 -3.4 -3.5	-2.9 -2.8 -3.0 -3.1	-2.9 -2.8	-2.6 -2.5	-2.2 -2.1	-3.5 -3.6	-3.2 -3.2	-3.2 -3.2	-2.8 -2.9	-2.5
12H 2H 3H 4H	-3.2 -3.4 -3.5	-2.8 -3.0 -3.1	-2.8 -3.1	-2.5 -2.7	-2.1	-3.6	-3.2	-3.2	-2.9	
2H 3H 4H	-3.4 -3.5	-3.0 -3.1	-3.1	-2.7	-2.4	25050	1000	00.00	90000	-2.5
3H 4H	-3.5	-3.1				-33	-20	-30		
4H	03355		-3.1	-28			-2.5	-0.0	-2.6	-2.3
	-3.5	3 23 243		-2.0	-2.4	-3.4	-3.1	-3.1	-2.7	-2.4
6H		-3.2	-3.1	-2.8	-2.4	-3.5	-3.2	-3.1	-2.8	-2.4
2	-3.4	-3.1	-3.0	-2.7	-2.3	-3.5	-3.3	-3.1	-2.9	-2.4
HS	-3.3	-3.0	-2.8	-2.6	-2.2	-3.6	-3.3	-3.1	-2.9	-2.5
12H	-3.1	-2.8	-2.6	-2.4	-2.0	-3.6	-3.4	-3.1	-2.9	-2.5
4H	-3.6	-3.3	-3.1	-2.9	-2.5	-3.3	-3.0	-2.8	-2.6	-2.2
бН	-3.4	-3.2	-2.9	-2.7	-2.2	-3.2	-3.0	-2.8	-2.6	-2.1
HS	-3.2	-3.0	-2.7	-2.5	-2.0	-3.2	-3.0	-2.7	-2.5	-2.0
12H	-2.8	-2.7	-2.3	-2.2	-1.7	-3.1	-3.0	-2.6	-2.5	-2.0
4H	-3.6	-3.4	-3.1	-2.9	-2.5	-3.1	-2.8	-2.6	-2.4	-2.0
бН	-3.4	-3.2	-2.9	-2.7	-2.2	-2.9	-2.8	-2.5	-2.3	-1.8
HS	-3.1	-3.0	-2.6	-2.5	-2.0	-2.8	-2.7	-2.3	-2.2	-1.7
ns wi	th the ob	oserverp	osition	at spacir	ıg:					
1.0H		5	.6 / -3	8.			5	.6 / -3.	8.	
1.5H		8	.3 / -4	.0			8	.3 / -4.	.0	
1 1	4H 6H 8H ns wi	4H -3.6 6H -3.4 8H -3.1 ns with the ol	4H -3.6 -3.4 6H -3.4 -3.2 BH -3.1 -3.0 ns with the observer p .0H 5 5H 8	4H -3.6 -3.4 -3.1 6H -3.4 -3.2 -2.9 8H -3.1 -3.0 -2.6 ns with the observer position and the obse	4H -3.6 -3.4 -3.1 -2.9 6H -3.4 -32 -2.9 -2.7 8H -3.1 -3.0 -2.6 -2.5 ns with the observer position at spacin .0H 5.6 / -3.8 .5H 8.3 / -4.0	4H -3.6 -3.4 -3.1 -2.9 -2.5 6H -3.4 -3.2 -2.9 -2.7 -2.2 8H -3.1 -3.0 -2.6 -2.5 -2.0 ns with the observer position at spacing: .0H 5.6 / -3.8 5H 8.3 / -4.0	4H -3.6 -3.4 -3.1 -2.9 -2.5 -3.1 6H -3.4 -3.2 -2.9 -2.7 -2.2 -2.9 8H -3.1 -3.0 -2.6 -2.5 -2.0 -2.8 es with the observer position at spacing: .0H	4H -3.6 -3.4 -3.1 -2.9 -2.5 -3.1 -2.8 6H -3.4 -3.2 -2.9 -2.7 -2.2 -2.9 -2.8 8H -3.1 -3.0 -2.6 -2.5 -2.0 -2.8 -2.7 rs with the observer position at spacing: .0H	4H -3.6 -3.4 -3.1 -2.9 -2.5 -3.1 -2.8 -2.6 6H -3.4 -3.2 -2.9 -2.7 -2.2 -2.9 -2.8 -2.5 8H -3.1 -3.0 -2.6 -2.5 -2.0 -2.8 -2.7 -2.3 rs with the observer position at spacing: .0H	4H -3.6 -3.4 -3.1 -2.9 -2.5 -3.1 -2.8 -2.6 -2.4 6H -3.4 -32 -2.9 -2.7 -2.2 -2.9 -2.8 -2.5 -2.3 8H -3.1 -3.0 -2.6 -2.5 -2.0 -2.8 -2.7 -2.3 -2.2 rs with the observer position at spacing: .0H