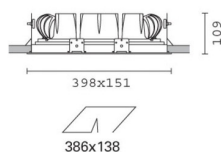


Last information update: June 2018



rectangular recessed luminaire with 3 optical assemblies - warm white passive dissipation LEDs - integrated DALI control gear - wide flood

Product code
MP33

Technical description

Multiple recessed adjustable removable luminaire for LED lamp with passive heat dissipation system. Sheet steel perimeter frame. Main structure made of die-cast aluminium. Steel rotation hinges. Die-cast aluminium lamp bodies with shaped surface for high level radiant effect for effectively reducing the temperature and keeping the long-term LED lamp performance unchanged. Chrome-plated aluminium lamp body closing rings. Reflectors with high efficiency super-pure aluminium optic - wide flood beam angle. Orientamento dei corpi con dispositivi di manovra manuale: interno 29° - esterno 75° - rotazione sull'asse 355°; in fase di orientamento e rotazione i corpi lampada sono soggetti ad alcune limitazioni consultabili sul foglio istruzioni. Supplied with DALI dimmable control gear units connected to the luminaire. Warm white high efficiency LED.

Installation

recessed: preparation slot 138 x 386 mm; perimeter frame preliminary fixing on false ceiling (min. thickness 1 mm) with adjustable metal brackets; main structure inserted and mechanically locked on the frame

Dimension (mm)

398x151x109

Colour

White/Aluminium (39) | Grey/Black/Aluminium (E1)

Weight (Kg)

3.5

Mounting

ceiling recessed

Wiring

on control gear box with quick-coupling connections; each lamp body has a specific ballast, allowing separate switch ons

Notes

the configuration of the lamp bodies causes some limitations during angling and rotation; consult the instructions leaflet

Complies with EN60598-1 and pertinent regulations



Product configuration: MP33

Product characteristics

Total lighting output [Lm]: 4676
Total power [W]: 46.5
Luminous efficacy [Lm/W]: 100.6
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: 3

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 78
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 13
Nominal luminous [Lm]: 2000
Lamp maximum intensity [cd]: /
Beam angle [°]: 54°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.5
Colour temperature [K]: 3000
CRI: 80
Wavelength [nm]: /
MacAdam Step: 2

	CIE nL 0.78 97-100-100-100-78 UGR 15.0-15.0		Lux			
	DIN A.61		h	d	Em	Emax
	UTE 0.78A+0.00T F*1=965 F*1+F*2=997 F*1+F*2+F*3=1000		2	2	400	516
	CIBSE LG3 L<1500 cd/m² at 65° UGR<16 L<1500 cd/mq @ 65°		4	4.1	100	129
			6	6.1	44	57
α = 54°			8	8.2	25	32

R	77	75	73	71	55	53	33	00	DDR
K0.8	69	65	63	60	65	62	62	59	76
1.0	72	69	66	65	68	66	66	63	81
1.5	76	74	72	70	73	71	70	68	87
2.0	79	77	75	74	76	75	74	71	92
2.5	80	79	78	77	78	77	76	74	95
3.0	81	80	80	79	79	78	77	75	97
4.0	83	82	81	81	80	80	79	77	98
5.0	83	82	82	82	81	81	79	78	99

The graph illustrates the relationship between illuminance (cd/m²) and height (m) for different camera models (QC, A, G, B, C) and various ISO speeds (1.15, 1.50, 1.85). The x-axis is logarithmic, ranging from 10² to 10⁴ cd/m². The y-axis is linear, ranging from 45° to 85°. The graph is divided into two sections: C0-180 (left) and C90-270 (right). The red dashed line represents the C90-180 camera model, and the blue dashed line represents the C90-270 camera model. The graph shows that for a given height, the illuminance required for a camera to capture a clear image decreases as the height increases. The C90-270 camera model generally requires higher illuminance than the C90-180 model for the same height and ISO speed.

UGR diagram

Corrected UGR values (at 2000 lm bare lamp luminous flux)												
Reflect.: ceiling/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	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise					
2H	2H	15.6	16.2	15.8	16.4	16.7	15.6	16.2	15.8	16.4	16.7	
	3H	15.4	16.0	15.7	16.3	16.5	15.4	16.0	15.7	16.3	16.5	
	4H	15.4	15.9	15.7	16.2	16.5	15.4	15.9	15.7	16.2	16.5	
	6H	15.3	15.8	15.6	16.1	16.4	15.3	15.8	15.6	16.1	16.4	
	8H	15.2	15.7	15.6	16.0	16.4	15.2	15.7	15.6	16.0	16.4	
	12H	15.2	15.6	15.6	16.0	16.3	15.2	15.6	15.6	16.0	16.3	
4H	2H	15.4	15.9	15.7	16.2	16.5	15.4	15.9	15.7	16.2	16.5	
	3H	15.2	15.7	15.6	16.0	16.3	15.2	15.7	15.6	16.0	16.3	
	4H	15.1	15.5	15.5	15.9	16.3	15.1	15.5	15.5	15.9	16.3	
	6H	15.0	15.4	15.5	15.8	16.2	15.0	15.4	15.5	15.8	16.2	
	8H	15.0	15.3	15.4	15.7	16.2	15.0	15.3	15.4	15.7	16.2	
	12H	14.9	15.2	15.4	15.7	16.1	14.9	15.2	15.4	15.7	16.1	
8H	4H	15.0	15.3	15.4	15.7	16.2	15.0	15.3	15.4	15.7	16.2	
	6H	14.9	15.2	15.4	15.6	16.1	14.9	15.2	15.4	15.6	16.1	
	8H	14.9	15.1	15.3	15.5	16.0	14.9	15.1	15.3	15.5	16.0	
	12H	14.8	15.0	15.3	15.5	16.0	14.8	15.0	15.3	15.5	16.0	
12H	4H	14.9	15.2	15.4	15.7	16.1	14.9	15.2	15.4	15.7	16.1	
	6H	14.8	15.1	15.3	15.5	16.0	14.9	15.1	15.3	15.5	16.0	
	8H	14.8	15.0	15.3	15.5	16.0	14.8	15.0	15.3	15.5	16.0	
Variations with the observer position at spacing:												
S =		1.0H	5.1 / -13.5					5.1 / -13.5				
		1.5H	7.9 / -14.7					7.9 / -14.7				
		2.0H	9.9 / -15.9					9.9 / -15.9				