iGuzzini

Last information update: May 2024

Product configuration: MM98

MM98: Fixed round recessed luminaire - Ø212 mm - warm white - wide flood optic



o 226

Product code

MM98: Fixed round recessed luminaire - Ø212 mm - warm white - wide flood optic Attention! Code no longer in production

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 α>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

	Colour White / Alumin	ium (39)				Weight (Kg) 2.03						
150	Mounting ceiling recesse Wiring	d										
Ĩ	Product comple	ete with ele	ectroni	c components			Co	mplies with	EN60598-1	and pertine	ent regulation	
		20 IP	954	On the visible part of the product once installed	ce	Æ13	8	ERC	Ŵ	©		

Technical data			
Im system:	4426	CRI (minimum):	80
W system:	36.4	Colour temperature [K]:	3000
Im source:	5150	MacAdam Step:	2
W source:	32	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (Im/W,	121.6	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.) [%]:	86	assemblies:	
Beam angle [°]:	56°		

Polar

Imax=5218 cd	CIE	Lux			
90° 180°	nL 0.86 90° 95-100-100-100-86	h	d	Em	Emax
	UGR 17.8-17.8 DIN A.61	2	2.1	971	1304
X X X	UTE 0.86A+0.00T F"1=946	4	4.3	243	326
4500	F"1+F"2=1000 F"1+F"2+F"3=1000 CIBSE	6	6.4	108	145
α=56°	LG3 L<1500 cd/m ² at 65' UGR<19 L<1500 cd/mq	@65° 8	8.5	61	82

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

QC	Α	G	1.15	2000		1000		500		<-300		
	в		1.50			2000	1	000	750	500	<=300	
	C		1.85				2	000		1000	500	<=300
					_				1 -	/ /		
85°												8
												- 4
75°												-
65°												
65-												2
55°			+								+	a
55.												h
450												
45° 1	0 ²		2	3 4	5	6 8	10 ³	2	3	4 5 6	8 10 ⁴	cd/m ²

UGR diagram

Rifleo ceil/c walls											
	av	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	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl. Room dim		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
							viewed				
x	У		c	rosswis	e				endwise		
2H	2H	18.4	19.1	18.7	19.3	19.6	18.4	19.1	18.7	19.3	19.6
	3H	18.3	18.9	18.6	19.1	19.4	18.3	18.9	18.6	19.1	19.4
	4H	18.2	18.8	18.5	19.0	19.3	18.2	18.8	18.5	19.0	19.3
	6H	18.1	18.6	18.5	18.9	19.3	18.1	18.6	18.5	18.9	19.3
	BH	18.1	18.6	18.4	18.9	19.2	18.1	18.6	18.4	18.9	19.2
	12H	18.0	18.5	18.4	<mark>18.8</mark>	19.2	18.0	18 <mark>.</mark> 5	18.4	18.8	19.2
4H	2H	18.2	18.8	18.5	19.0	19.3	18.2	18.8	18.5	19.0	19.3
	ЗH	18.0	18.5	18.4	18.8	19.2	18.0	18.5	18.4	18.8	19.2
	4H	17.9	18.4	18.3	18.7	19.1	17.9	18.4	18.3	18.7	19.1
	6H	17.9	18.2	18.3	18.6	19.0	17.9	18.2	18.3	18.6	19.0
	HS	17.8	18.1	18.3	18.6	19.0	17.8	18.1	18.3	18.6	19.0
	12H	17.8	18.1	18.2	18.5	19.0	17.8	18.1	18.2	18.5	19.0
вн	4H	17.8	18.1	18.3	18.6	19.0	17.8	18.1	18.3	18.6	19.0
	6H	17.7	18.0	18.2	18.4	18.9	17.7	18.0	18.2	18.4	18.9
	BH	17.7	17.9	18.2	18.4	18.9	17.7	17.9	18.2	18.4	18.9
	12H	17.6	17.8	18.1	18.3	18.8	17.6	17.8	18.1	18.3	18.8
12H	4H	17.8	18.1	18.2	18.5	19.0	17.8	18.1	18.2	18.5	19.0
	6H	17.7	17.9	18.2	18.4	18.9	17.7	17.9	18.2	18.4	18.9
	H8	17.6	17.8	18.1	18.3	18.8	17.6	17.8	18.1	18.3	18.8
Varia	tions wi	th the ot	oserver p	osition	at spacin	g:					
S =	1.0H		4.	5 / -24	2	4.5 / -24.2					
	1.5H		7.	2 / -33	8.		7.2 / -33.8				