

Last information update: May 2024

Product configuration: MB81

MB81: Round recessed luminaire - D=226 mm H=103 mm - LED warm white - DALI ballast - general light optic with controlled luminance UGR<19

**Product code**MB81: Round recessed luminaire - D=226 mm H=103 mm - LED warm white - DALI ballast - general light optic with controlled luminance UGR<19 **Attention! Code no longer in production****Technical description**

Recessed fixed round luminaire designed to use a LED lamp. 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 3000 lm DALI LED unit in a warm white tone 3000K and driver separate from the luminaire. Light distribution UGR<19 with controlled luminance.

Installation

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

Colour

White / Aluminium (39)

Weight (Kg)

1.88

Mounting

ceiling recessed

Wiring

Product complete with DALI electronic components

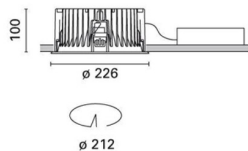
Complies with EN60598-1 and pertinent regulations



IP20

IP23

On the visible part of the product once installed

**Technical data**

lm system:	2759	Colour temperature [K]:	3000
W system:	28.6	MacAdam Step:	3
lm source:	3000	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
W source:	24	Lamp code:	LED
Luminous efficiency (lm/W, real value):	96.5	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	92	Control:	DALI
CRI:	80		

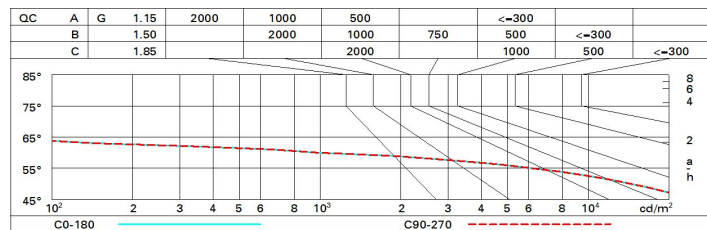
Polar

	CIE				Lux			
	nL 0.92				h	d	Em	Emax
	86-100-100-100-92				2	2.6	435	596
	UGR 18.8-18.8				4	5.2	109	149
	DIN A.61 UTE 0.92A+0.00T F*1=856 F*1+F*2=999 F*1+F*2+F*3=1000				6	7.8	48	66
	CIBSE LG3 L<1500 cd/m² at 65° UGR<19 L<1500 cd/mq @65°				8	10.4	27	37

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	77	71	67	64	70	67	66	62	68
1.0	82	77	73	70	75	72	72	68	74
1.5	88	84	81	78	83	80	79	76	82
2.0	91	89	86	84	87	85	84	81	88
2.5	93	91	89	88	90	88	87	84	91
3.0	95	93	92	90	91	90	89	86	94
4.0	96	95	94	93	93	92	91	88	96
5.0	97	96	95	94	94	93	92	89	97

Luminance curve limit



UGR diagram

Corrected UGR values (at 3000 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		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
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	19.3	20.0	19.6	20.3	20.5	19.3	20.0	19.6	20.3	20.5
	3H	19.2	19.8	19.5	20.1	20.4	19.2	19.9	19.5	20.1	20.4
	4H	19.1	19.7	19.4	20.0	20.3	19.1	19.7	19.5	20.0	20.3
	6H	19.0	19.6	19.4	19.9	20.2	19.1	19.6	19.4	19.9	20.3
	8H	19.0	19.5	19.4	19.9	20.2	19.0	19.5	19.4	19.9	20.2
	12H	19.0	19.5	19.3	19.8	20.2	19.0	19.5	19.4	19.8	20.2
4H	2H	19.1	19.7	19.5	20.0	20.3	19.1	19.7	19.4	20.0	20.3
	3H	19.0	19.5	19.4	19.8	20.2	19.0	19.5	19.4	19.8	20.2
	4H	18.9	19.3	19.3	19.7	20.1	18.9	19.3	19.3	19.7	20.1
	6H	18.8	19.2	19.2	19.6	20.0	18.8	19.2	19.2	19.6	20.0
	8H	18.8	19.1	19.2	19.5	20.0	18.8	19.1	19.2	19.5	20.0
	12H	18.7	19.0	19.2	19.5	19.9	18.7	19.0	19.2	19.5	19.9
8H	4H	18.8	19.1	19.2	19.5	20.0	18.8	19.1	19.2	19.5	20.0
	6H	18.7	19.0	19.1	19.4	19.9	18.7	19.0	19.1	19.4	19.9
	8H	18.6	18.9	19.1	19.3	19.8	18.6	18.9	19.1	19.3	19.8
	12H	18.6	18.8	19.1	19.3	19.8	18.6	18.8	19.1	19.3	19.8
12H	4H	18.7	19.0	19.2	19.5	19.9	18.7	19.0	19.2	19.5	19.9
	6H	18.6	18.9	19.1	19.3	19.8	18.6	18.9	19.1	19.3	19.8
	8H	18.6	18.8	19.1	19.3	19.8	18.6	18.8	19.1	19.3	19.8
Variations with the observer position at spacing:											
S =	1.0H	2.2 / -7.0					2.2 / -7.0				
	1.5H	4.6 / -30.0					4.6 / -30.0				
	2.0H	6.6 / -35.0					6.6 / -35.0				