Reflex

Design iGuzzini **iGuzzini**

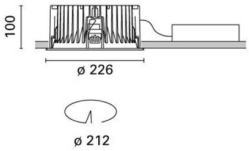
Last information update: April 2018

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

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.



Dimension (mm)
Ø226x100

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

Product configuration: MB81

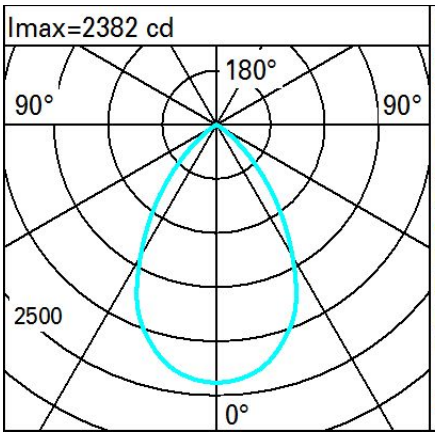
Product characteristics

Total lighting output [Lm]: 2758.8	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 28.6	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 96.5	Voltage [V]: -
Life Time: 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 92	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 4.6
Nominal power [W]: 24	Colour temperature [K]: 3000
Nominal luminous [Lm]: 3000	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: /	MacAdam Step: 3

Polar

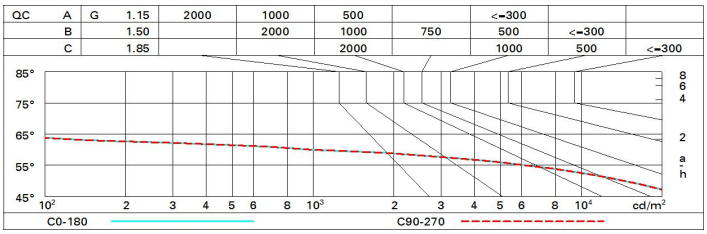


CIE
nL 0.92
86-100-100-100-92
UGR 18.8-18.8
DIN
A.61
UTE
0.92A+0.00T
F"1=856
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<200 cd/m² at 65°
BZ1

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)

Riflect.:											
ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed					viewed		
x	y			crosswise					endwise		
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