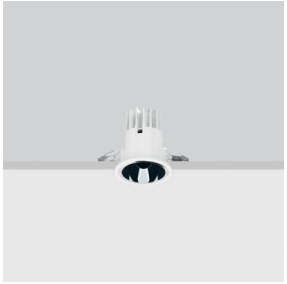
Reflex

Design iGuzzini **iGuzzini**

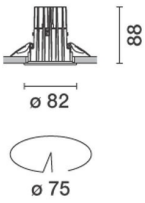
Last information update: May 2018



Fixed circular recessed luminaire - Ø 75 mm - neutral white - wide flood optic - UGR<19

Product code
MV81

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 neutral 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 20 mm.

Dimension (mm)
Ø82x88

Colour
White/Aluminium (39)

Weight (Kg)
0.41

Mounting
ceiling recessed

Wiring
product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP20 IP54 On the visible part of the product once installed

Product configuration: MV81

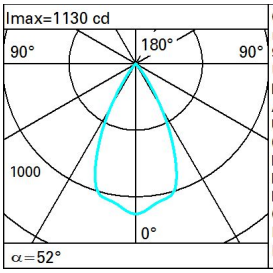
Product characteristics

Total lighting output [Lm]: 789.3	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 8.6	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 91.8	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.) [%]: 79	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.3
Nominal power [W]: 6.3	Colour temperature [K]: 4000
Nominal luminous [Lm]: 1000	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 52°	MacAdam Step: 2

Polar



CIE
nL 0.79
99-100-100-100-79
UGR 15.3-15.2
DIN
A.61
UTE
0.79A+0.00T
F"1=994
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<500 cd/m² at 65°
BZ1

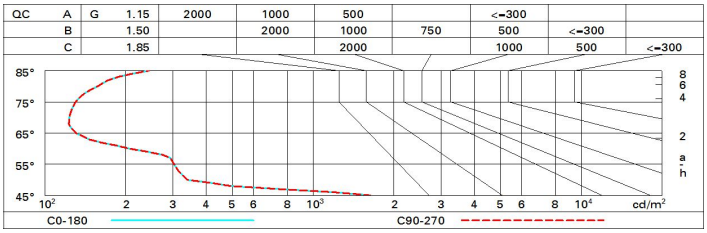
Lux

h	d	Em	Emax
1	1	887	1130
2	2	222	283
3	2.9	99	126
4	3.9	55	71

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	71	67	65	63	67	64	64	62	78
1.0	74	71	69	67	70	68	68	65	83
1.5	78	75	74	72	75	73	72	70	88
2.0	80	79	77	76	78	76	75	73	93
2.5	82	81	79	79	79	78	78	75	96
3.0	83	82	81	80	81	80	79	77	98
4.0	84	83	83	82	82	81	80	78	99
5.0	84	84	83	83	83	82	81	79	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1000 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	15.8	16.4	16.1	16.6	16.9	15.8	16.4	16.1	16.6	16.9
	3H	15.7	16.2	16.0	16.5	16.8	15.7	16.2	16.0	16.5	16.8
	4H	15.6	16.1	16.0	16.4	16.7	15.6	16.1	16.0	16.4	16.7
	6H	15.5	16.0	15.9	16.3	16.6	15.5	16.0	15.9	16.3	16.6
	8H	15.5	15.9	15.9	16.3	16.6	15.5	15.9	15.9	16.3	16.6
	12H	15.5	15.9	15.8	16.2	16.6	15.5	15.9	15.8	16.2	16.6
4H	2H	15.6	16.1	16.0	16.4	16.7	15.6	16.1	16.0	16.4	16.7
	3H	15.5	15.9	15.8	16.2	16.6	15.5	15.9	15.8	16.2	16.6
	4H	15.4	15.7	15.8	16.1	16.5	15.4	15.7	15.8	16.1	16.5
	6H	15.3	15.6	15.7	16.0	16.4	15.3	15.6	15.7	16.0	16.4
	8H	15.3	15.5	15.7	16.0	16.4	15.2	15.5	15.7	16.0	16.4
	12H	15.2	15.5	15.7	15.9	16.4	15.2	15.5	15.7	15.9	16.4
8H	4H	15.2	15.5	15.7	16.0	16.4	15.3	15.5	15.7	16.0	16.4
	6H	15.2	15.4	15.6	15.8	16.3	15.2	15.4	15.6	15.8	16.3
	8H	15.1	15.3	15.6	15.8	16.3	15.1	15.3	15.6	15.8	16.3
	12H	15.1	15.2	15.6	15.7	16.2	15.1	15.2	15.6	15.7	16.2
12H	4H	15.2	15.5	15.7	15.9	16.4	15.2	15.5	15.7	15.9	16.4
	6H	15.1	15.3	15.6	15.8	16.3	15.1	15.3	15.6	15.8	16.3
	8H	15.1	15.2	15.6	15.7	16.2	15.1	15.2	15.6	15.7	16.2

Variations with the observer position at spacing:

S =			
	1.0H	6.0 / -23.7	6.0 / -23.7
	1.5H	8.8 / -24.6	8.8 / -24.6
	2.0H	10.8 / -25.0	10.8 / -25.0