Reflex

Last information update: May 2018

Fixed circular recessed luminaire - Ø153 mm - warm white - wide flood optic - UGR<19

Product code
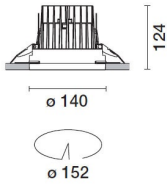MV75

Technical description
Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version without rim for mounting flush with ceiling. 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 (3000K). General light emission, with controlled luminance UGR<19 1500 cd/m2 α>65° wide flood optic.

Installation
Installation flush with the ceiling is for false ceilings 12.5 mm thick

Dimension (mm)
Ø140x124

Colour
Aluminium (12)

Weight (Kg)
1.32

Mounting
ceiling recessed

Wiring
product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP20   IP43   On the visible part of the product once installed

CE   A++

Product configuration: MV75

Product characteristics

Total lighting output [Lm]: 2488	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 24.7	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 100.7	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.) [%]: 83	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.7
Nominal power [W]: 22	Colour temperature [K]: 3000
Nominal luminous [Lm]: 3000	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 52°	MacAdam Step: 2

Polar

Imax=3494 cd

CIE
nL 0.83
98-100-100-100-83
UGR 16.2-16.2
DIN
A.61
UTE
0.83A+0.00T
F"1=982
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<19 | L<1500 cd/mq @65°

α=52°

h	d	Em	Emax
2	2	663	874
4	3.9	166	218
6	5.9	74	97
8	7.8	41	55
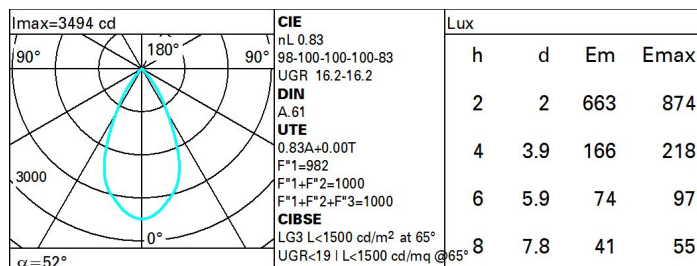
Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	74	70	68	65	70	67	67	64	77
1.0	78	74	72	70	73	71	71	68	82
1.5	82	79	77	75	78	76	75	73	88
2.0	84	82	81	79	81	80	79	77	92
2.5	86	84	83	82	83	82	81	79	95
3.0	87	86	85	84	85	84	83	81	97
4.0	88	87	87	86	86	85	84	82	99
5.0	89	88	87	87	87	86	85	83	100

Luminance curve limit

QC		G									
	A	1.15	2000	1000	500		<=300				
	B	1.50		2000	1000	750		500	<=300		
	C	1.85			2000			1000	500	<=300	

C0-180   C90-270
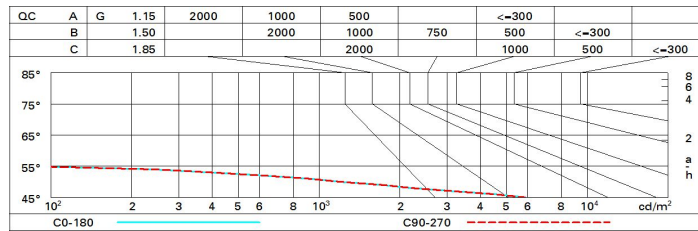
UGR diagram

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	16.8	17.4	17.1	17.6	17.9	16.8	17.4	17.1	17.6	17.9
	3H	16.7	17.2	17.0	17.5	17.8	16.7	17.2	17.0	17.5	17.8
	4H	16.6	17.1	16.9	17.4	17.7	16.6	17.1	16.9	17.4	17.7
	6H	16.5	17.0	16.9	17.3	17.6	16.5	17.0	16.9	17.3	17.6
	8H	16.5	16.9	16.8	17.2	17.6	16.5	16.9	16.8	17.2	17.6
	12H	16.4	16.9	16.8	17.2	17.6	16.4	16.9	16.8	17.2	17.6
4H	2H	16.6	17.1	16.9	17.4	17.7	16.6	17.1	16.9	17.4	17.7
	3H	16.4	16.9	16.8	17.2	17.6	16.4	16.9	16.8	17.2	17.6
	4H	16.3	16.7	16.7	17.1	17.5	16.3	16.7	16.7	17.1	17.5
	6H	16.2	16.6	16.7	17.0	17.4	16.2	16.6	16.7	17.0	17.4
	8H	16.2	16.5	16.6	16.9	17.4	16.2	16.5	16.6	16.9	17.4
	12H	16.2	16.4	16.6	16.9	17.3	16.2	16.4	16.6	16.9	17.3
8H	4H	16.2	16.5	16.6	16.9	17.4	16.2	16.5	16.6	16.9	17.4
	6H	16.1	16.4	16.6	16.8	17.3	16.1	16.4	16.6	16.8	17.3
	8H	16.1	16.3	16.5	16.7	17.2	16.1	16.3	16.5	16.7	17.2
	12H	16.0	16.2	16.5	16.7	17.2	16.0	16.2	16.5	16.7	17.2
12H	4H	16.2	16.4	16.6	16.9	17.3	16.2	16.4	16.6	16.9	17.3
	6H	16.1	16.3	16.5	16.7	17.2	16.1	16.3	16.5	16.7	17.2
	8H	16.0	16.2	16.5	16.7	17.2	16.0	16.2	16.5	16.7	17.2

Variations with the observer position at spacing:

S =				
	1.0H	5.1 / -29.8		5.1 / -29.8
	1.5H	7.9 / -30.2		7.9 / -30.2
	2.0H	9.9 / -30.4		9.9 / -30.4