Deep Laser

Design iGuzzini **iGuzzini**

Last information update: September 2023

Product configuration: MA42
MA42: medium body, Frame installation 6 LED warm white medium

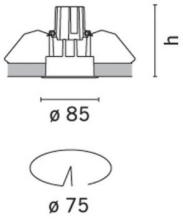
Product code
MA42: medium body, Frame installation 6 LED warm white medium **Attention! Code no longer in production**

Technical description
Fixed round recessed luminaire designed to use a 6X2W LED lamp in warm white (3100°K) with medium optic. Recessed item with rim consisting of a single die-cast aluminium body. The upper part is a heat sink which helps to carry away the heat given off by the lamp. LED optics with a single lens made of thermoplastic material. Lamp set back 40 mm for greater visual comfort.

Installation
Recessed using springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 30 mm

Colour
White (01) | Grey (15)

Weight (Kg)
0.36



Mounting
wall recessed|ceiling recessed

Wiring
product complete with electronic components

Notes
the luminaire has an IP65 protection rating without the installation of any accessory.

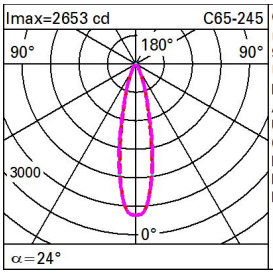
Complies with EN60598-1 and pertinent regulations

IP65

Technical data

lm system:	680	CRI (minimum):	80
W system:	10	Colour temperature [K]:	3000
lm source:	1000	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W source:	8.7	Ballast losses [W]:	1.3
Luminous efficiency (lm/W, real value):	68	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	68	Number of optical assemblies:	1
Beam angle [°]:	24°		

Polar



CIE
nL 0.68
92-97-99-100-68
UGR 15.7-16.1
DIN
A.61
UTE
0.68A+0.00T
F"1=925
F"1+F"2=974
F"1+F"2+F"3=994

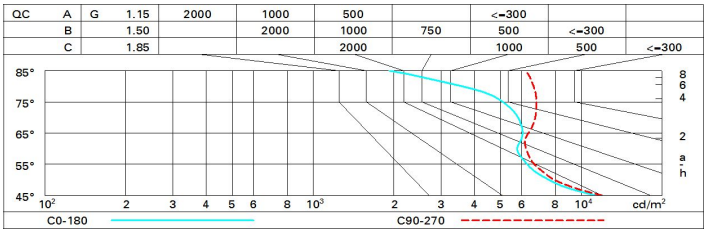
Lux

h	d1	d2	Em	Emax
2	0.9	0.9	530	663
4	1.7	1.7	133	166
6	2.6	2.6	59	74
8	3.4	3.4	33	41

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	59	55	53	51	55	52	52	50	73
1.0	62	59	56	54	58	56	55	53	78
1.5	66	63	61	59	62	61	60	58	85
2.0	68	66	65	63	65	64	63	61	90
2.5	70	68	67	66	67	66	65	63	93
3.0	71	69	68	68	68	67	67	65	95
4.0	72	71	70	69	69	69	68	66	97
5.0	72	71	71	70	70	70	69	67	98

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 crosswise					viewed endwise		
x	y										
2H	2H	13.7	15.6	14.1	15.9	16.2	13.7	15.6	14.1	15.9	16.2
	3H	14.6	16.0	15.0	16.4	16.7	14.0	15.4	14.3	15.7	16.0
	4H	15.0	16.2	15.4	16.5	16.9	14.1	15.3	14.4	15.6	16.0
	6H	15.2	16.2	15.6	16.6	16.9	14.1	15.1	14.5	15.5	15.8
	8H	15.2	16.3	15.6	16.6	17.0	14.1	15.1	14.5	15.5	15.8
	12H	15.2	16.2	15.6	16.6	17.0	14.0	15.1	14.4	15.4	15.8
4H	2H	14.1	15.3	14.4	15.6	15.9	15.4	16.7	15.8	17.0	17.3
	3H	15.2	16.2	15.6	16.6	16.9	16.0	17.0	16.4	17.3	17.7
	4H	15.6	16.6	16.1	17.0	17.4	16.2	17.2	16.6	17.6	18.0
	6H	15.7	17.2	16.2	17.7	18.1	16.1	17.7	16.6	18.1	18.6
	8H	15.7	17.4	16.2	17.8	18.3	16.1	17.8	16.6	18.2	18.7
	12H	15.6	17.4	16.1	17.9	18.4	16.0	17.8	16.5	18.3	18.8
8H	4H	15.6	17.3	16.1	17.8	18.2	16.8	18.5	17.3	19.0	19.4
	6H	16.0	17.6	16.5	18.1	18.6	17.1	18.7	17.6	19.2	19.7
	8H	16.1	17.5	16.6	18.0	18.6	17.3	18.7	17.8	19.2	19.7
	12H	16.3	17.3	16.8	17.8	18.3	17.5	18.5	18.0	19.0	19.5
12H	4H	15.6	17.3	16.1	17.8	18.3	16.9	18.7	17.4	19.2	19.7
	6H	16.1	17.5	16.6	18.0	18.5	17.4	18.8	17.9	19.3	19.8
	8H	16.4	17.4	16.9	17.9	18.4	17.7	18.7	18.2	19.2	19.7

Variations with the observer position at spacing:

S =			
	1.0H	0.9 / -0.7	0.6 / -0.4
	1.5H	2.1 / -1.0	1.5 / -0.7
	2.0H	3.3 / -1.1	2.4 / -0.7