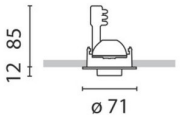
Tecnica Pro

Design iGuzzini **iGuzzini**

Last information update: May 2018



mini body LED warm white - medium optic

Product code
MS44

Technical description
Recessed luminaire made of die-cast aluminium and thermoplastic material, with 1x2.2W high-performing Warm White LED with monochromatic emission. LED optic with plastic lenses with medium beam . 335° rotation around vertical axis and 65° rotation around horizontal axis with continuous frictioning (only on horizontal axis). Anti-glare screen available as accessory. The technical characteristics of the luminaires comply with EN60598-1 norms and following amendments.

Installation
Recessed installation in false ceilings with thickness from 1 mm to 20 mm by means of special steel torsional springs and hinged brackets.

Dimension (mm)
Ø71x85

Colour
White (01)

Weight (Kg)
0.11

Mounting
ceiling recessed

Wiring
Electronic components for LED to be ordered separately.

Notes
For compliance with the NFC 20-455 standard use an optional filter code MW57 for each optical assembly

Complies with EN60598-1 and pertinent regulations

650°C IP20

Product configuration: MS44

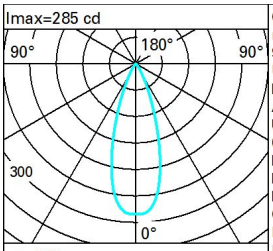
Product characteristics

Total lighting output [Lm]: 107.7	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 1.8	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 59.8	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.) [%]: 77	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 0
Nominal power [W]: 1.8	Colour temperature [K]: 3000
Nominal luminous [Lm]: 140	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 34°	MacAdam Step: 3

Polar



CIE
nL 0.77
98-100-100-100-77
UGR <10-<10
DIN
A.61
UTE
0.77A+0.00T
F"1=982
F"1+F"2=998
F"1+F"2+F"3=999
CIBSE
LG3 L<1000 cd/m² at 65°
BZ1

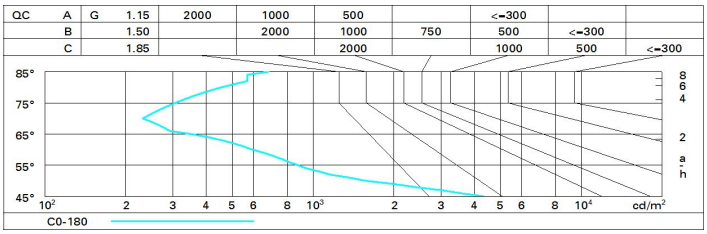
Lux

h	d	Em	Emax
1	0.6	230	284
2	1.2	57	71
3	1.8	26	32
4	2.4	14	18

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	69	65	63	61	65	62	62	59	77
1.0	72	69	66	65	68	66	65	63	82
1.5	76	73	71	70	72	71	70	68	88
2.0	78	76	75	74	75	74	73	71	92
2.5	80	78	77	76	77	76	75	73	95
3.0	81	80	79	78	78	78	77	75	97
4.0	82	81	80	80	80	79	78	76	99
5.0	82	82	81	81	80	80	79	77	100

Luminance curve limit



UGR diagram

Photometric curve code: MS440000.Z34
Corrected UGR values (at 140 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	9.8	10.3	10.0	10.6	10.8	9.8	10.3	10.0	10.6	10.8
	3H	9.6	10.1	9.9	10.4	10.7	9.6	10.1	9.9	10.4	10.7
	4H	9.6	10.0	9.9	10.3	10.6	9.6	10.0	9.9	10.3	10.6
	6H	9.5	9.9	9.8	10.3	10.6	9.5	9.9	9.8	10.2	10.6
	8H	9.5	9.9	9.8	10.2	10.6	9.4	9.9	9.8	10.2	10.5
	12H	9.5	9.9	9.8	10.2	10.5	9.4	9.8	9.8	10.2	10.5
4H	2H	9.6	10.0	9.9	10.3	10.6	9.6	10.0	9.9	10.3	10.6
	3H	9.4	9.8	9.8	10.2	10.5	9.4	9.8	9.8	10.2	10.5
	4H	9.3	9.7	9.7	10.1	10.5	9.3	9.7	9.7	10.1	10.5
	6H	9.3	9.6	9.7	10.0	10.4	9.3	9.6	9.7	10.0	10.4
	8H	9.3	9.6	9.7	10.0	10.4	9.2	9.5	9.7	9.9	10.4
	12H	9.2	9.5	9.7	9.9	10.4	9.2	9.4	9.6	9.9	10.3
8H	4H	9.2	9.5	9.7	9.9	10.4	9.3	9.6	9.7	10.0	10.4
	6H	9.2	9.4	9.6	9.9	10.3	9.2	9.4	9.7	9.9	10.3
	8H	9.2	9.4	9.6	9.8	10.3	9.2	9.4	9.6	9.8	10.3
	12H	9.1	9.3	9.6	9.8	10.3	9.1	9.3	9.6	9.8	10.3
12H	4H	9.2	9.4	9.6	9.9	10.3	9.2	9.5	9.7	9.9	10.4
	6H	9.1	9.3	9.6	9.8	10.3	9.2	9.4	9.7	9.8	10.3
	8H	9.1	9.3	9.6	9.8	10.3	9.1	9.3	9.6	9.8	10.3

Variations with the observer position at spacing:

S =	1.0H	5.0 / -8.6	5.0 / -8.6
	1.5H	7.7 / -9.5	7.7 / -9.5
	2.0H	9.7 / -10.1	9.7 / -10.1