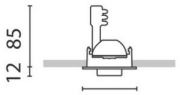
Tecnica Pro

Design Bruno Gecchelin | **iGuzzini**

Last information update: April 2024

Product configuration: MS44
MS44: mini body LED warm white - medium optic



Product code
MS44: mini body LED warm white - medium optic **Attention! Code no longer in production**

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.

Colour
White (01) | Grey (15)

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

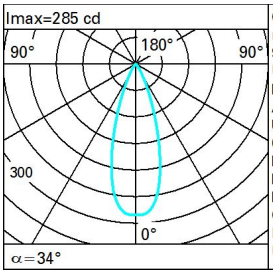
Complies with EN60598-1 and pertinent regulations

650°C IP20 pending

Technical data

lm system:	108	CRI (minimum):	80
W system:	1.8	Colour temperature [K]:	3000
lm source:	140	MacAdam Step:	3
W source:	1.8	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	59.8	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.) [%]:	77	Number of optical assemblies:	1
Beam angle [°]:	34°	LED current [mA]:	600

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<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

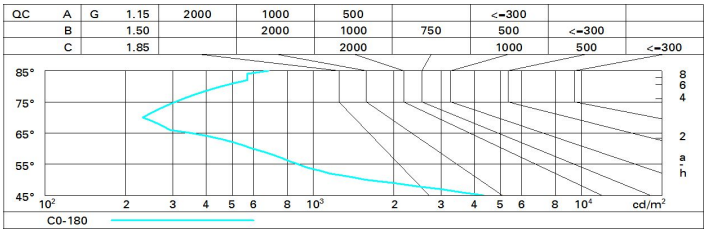
Lux

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

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 crosswise					viewed endwise		
x	y										
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