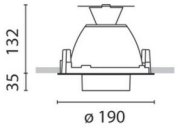
Tecnica Pro

Design iGuzzini **iGuzzini**

Last information update: May 2018



Recessed DALI extractable-control gear

Product code
MS16

Technical description
Die-cast aluminium and thermoplastic material, recessed luminaire complete with C.O.B technology LED lamp in a 3000K warm white colour tone with high color rendering index. Luminaire with wide flood optic complete with high level light output and uniform distribution OPTIBEAM reflector. The product permits an internal rotation around the 335° vertical axis and the 65° horizontal plane with continuous friction (only on this rotation). Product complete with a DALI driver separate from the luminaire.

Installation
Recessed in false ceilings, with thicknesses starting from between 1 mm and 20 mm, using special steel torsion springs and hinged brackets.

Dimension (mm)
Ø190x132

Colour
White (01)

Weight (Kg)
1.46

Mounting
ceiling recessed

Wiring
product complete with DALI components

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: MS16

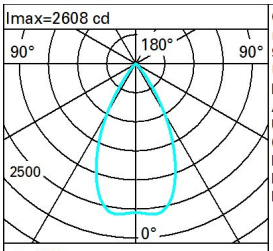
Product characteristics

Total lighting output [Lm]: 1973	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 25.1	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 78.6	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]: 3.1
Nominal power [W]: 22	Colour temperature [K]: 3000
Nominal luminous [Lm]: 2500	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 54°	MacAdam Step: 2

Polar



CIE
nL 0.79
97-100-100-100-79
UGR 19.3-19.3
DIN
A.61
UTE
0.79A+0.00T
F"1=969
F"1+F"2=998
F"1+F"2+F"3=1000

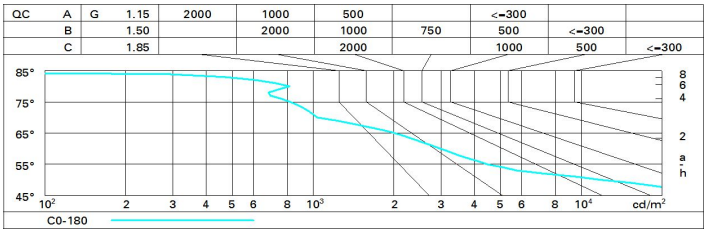
Lux

h	d	Em	Emax
2	2	509	641
4	4.1	127	160
6	6.1	57	71
8	8.2	32	40

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	70	66	64	61	66	63	63	60	76
1.0	74	70	67	66	69	67	67	64	81
1.5	78	75	73	71	74	72	71	69	87
2.0	80	78	77	75	77	76	75	73	92
2.5	82	80	79	78	79	78	77	75	95
3.0	83	82	81	80	80	80	78	76	97
4.0	84	83	82	82	81	81	80	78	99
5.0	84	84	83	83	82	82	81	79	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 2500 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	19.9	20.5	20.2	20.8	21.0	19.9	20.5	20.2	20.8	21.0
	3H	19.8	20.3	20.1	20.6	20.9	19.8	20.3	20.1	20.6	20.9
	4H	19.7	20.2	20.0	20.5	20.8	19.7	20.2	20.0	20.5	20.8
	6H	19.6	20.1	20.0	20.4	20.8	19.6	20.1	20.0	20.4	20.8
	8H	19.6	20.1	20.0	20.4	20.7	19.6	20.1	20.0	20.4	20.7
	12H	19.6	20.0	19.9	20.3	20.7	19.6	20.0	19.9	20.3	20.7
4H	2H	19.7	20.2	20.0	20.5	20.8	19.7	20.2	20.0	20.5	20.8
	3H	19.6	20.0	19.9	20.3	20.7	19.6	20.0	19.9	20.3	20.7
	4H	19.5	19.9	19.9	20.2	20.6	19.5	19.9	19.9	20.2	20.6
	6H	19.4	19.7	19.8	20.1	20.5	19.4	19.7	19.8	20.1	20.5
	8H	19.3	19.7	19.8	20.1	20.5	19.3	19.7	19.8	20.1	20.5
	12H	19.3	19.6	19.8	20.0	20.5	19.3	19.6	19.8	20.0	20.5
8H	4H	19.3	19.7	19.8	20.1	20.5	19.3	19.7	19.8	20.1	20.5
	6H	19.3	19.5	19.7	20.0	20.4	19.3	19.5	19.7	20.0	20.4
	8H	19.2	19.4	19.7	19.9	20.4	19.2	19.4	19.7	19.9	20.4
	12H	19.2	19.3	19.7	19.8	20.3	19.2	19.3	19.7	19.8	20.3
12H	4H	19.3	19.6	19.8	20.0	20.5	19.3	19.6	19.8	20.0	20.5
	6H	19.2	19.4	19.7	19.9	20.4	19.2	19.4	19.7	19.9	20.4
	8H	19.2	19.3	19.7	19.8	20.3	19.2	19.3	19.7	19.8	20.3

Variations with the observer position at spacing:

S =	1.0H	5.4 / -14.3	5.4 / -14.3
	1.5H	8.2 / -16.7	8.2 / -16.7
	2.0H	10.2 / -18.9	10.2 / -18.9