

Express Evo

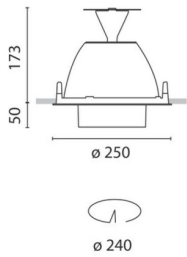
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Last information update: June 2023

Product configuration: MS23+LED

MS23: Recessed DALI extractable-control gear



Product code

MS23: Recessed DALI extractable-control gear **Attention! Code no longer in production**

Technical description

Die-cast aluminium and thermoplastic material, recessed luminaire complete with C.O.B technology LED lamp in a 4000K neutral white colour tone. Luminaire with 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.

Colour

White (01) | Grey (15)

Weight (Kg)

3.05

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

CE



Technical data

lm system: 3551.4

W system: 36.5

lm source: 4500

W source: 32

Luminous efficiency (lm/W, real value): 97.3

lm in emergency mode: -

Total light flux at or above an angle of 90° [Lm]: 0

Light Output Ratio (L.O.R.) [%]: 79

Beam angle [°]: 36°

CRI: 80

Colour temperature [K]: 4000

MacAdam Step: 3

Life Time LED 1: 50,000h - L80 - B10 (Ta 25°C)

Ballast losses [W]: 4.5

Lamp code: LED

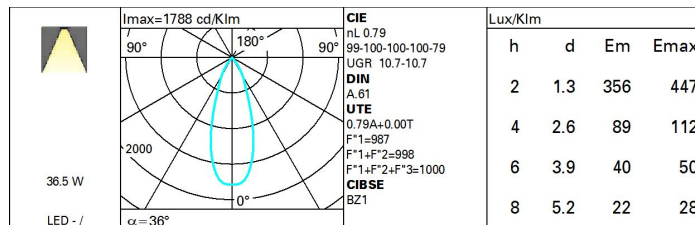
Number of lamps for optical assembly: 1

ZVEI Code: LED

Number of optical assemblies: 1

Control: DALI

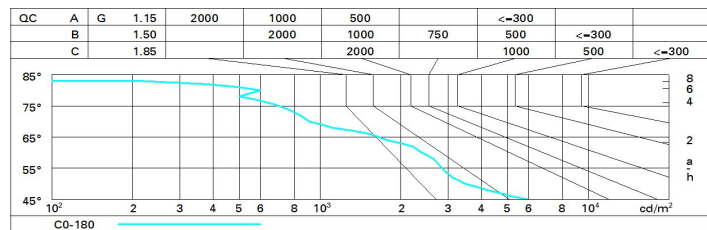
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	71	67	65	62	66	64	64	61	78
1.0	74	71	68	66	70	68	67	65	82
1.5	78	75	73	72	74	73	72	70	88
2.0	80	78	77	76	77	76	75	73	92
2.5	82	80	79	78	79	78	77	75	95
3.0	83	82	81	80	81	80	79	77	97
4.0	84	83	83	82	82	81	80	78	99
5.0	84	84	83	83	82	82	81	79	100

Luminance curve limit



UGR diagram

Photometric curve code: MS270000.X77											
Uncorrected UGR values (at 1000 lm bare lamp luminous flux)											
Reflect.:											
ceiling	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											
x											
y											
viewed											
crosswise											
viewed											
endwise											
2H	2H	11.3	11.9	11.5	12.1	12.3	11.3	11.9	11.5	12.1	12.3
	3H	11.1	11.7	11.5	12.0	12.2	11.1	11.7	11.5	12.0	12.2
	4H	11.1	11.6	11.4	11.9	12.2	11.1	11.6	11.4	11.9	12.2
	6H	11.0	11.5	11.3	11.8	12.1	11.0	11.5	11.3	11.8	12.1
	8H	11.0	11.4	11.3	11.7	12.1	11.0	11.4	11.3	11.7	12.1
	12H	10.9	11.4	11.3	11.7	12.0	10.9	11.3	11.3	11.7	12.0
4H	2H	11.1	11.6	11.4	11.9	12.2	11.1	11.6	11.4	11.9	12.2
	3H	10.9	11.4	11.3	11.7	12.1	10.9	11.4	11.3	11.7	12.1
	4H	10.8	11.2	11.2	11.6	12.0	10.8	11.2	11.2	11.6	12.0
	6H	10.8	11.1	11.2	11.5	11.9	10.8	11.1	11.2	11.5	11.9
	8H	10.7	11.0	11.2	11.4	11.9	10.7	11.0	11.2	11.4	11.9
	12H	10.7	10.9	11.1	11.4	11.8	10.7	10.9	11.1	11.4	11.8
8H	4H	10.7	11.0	11.2	11.4	11.9	10.7	11.0	11.2	11.4	11.9
	6H	10.6	10.9	11.1	11.3	11.8	10.6	10.9	11.1	11.3	11.8
	8H	10.6	10.8	11.1	11.2	11.7	10.6	10.8	11.1	11.2	11.7
	12H	10.5	10.7	11.0	11.2	11.7	10.5	10.7	11.0	11.2	11.7
12H	4H	10.7	10.9	11.1	11.4	11.8	10.7	10.9	11.1	11.4	11.8
	6H	10.6	10.8	11.1	11.2	11.7	10.6	10.8	11.1	11.2	11.7
	8H	10.5	10.7	11.0	11.2	11.7	10.5	10.7	11.0	11.2	11.7
Variations with the observer position at spacing:											
S =	1.0H		5.8	/	-12.5		5.8	/	-12.5		
	1.5H		8.6	/	-13.5		8.6	/	-13.5		
	2.0H		10.6	/	-16.1		10.6	/	-16.1		