

Express Evo

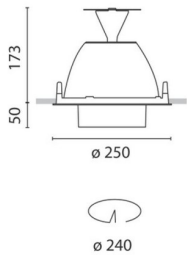
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Product configuration: MS24+LED

MS24: Recessed DALI extractable-control gear



Product code

MS24: 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 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.

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

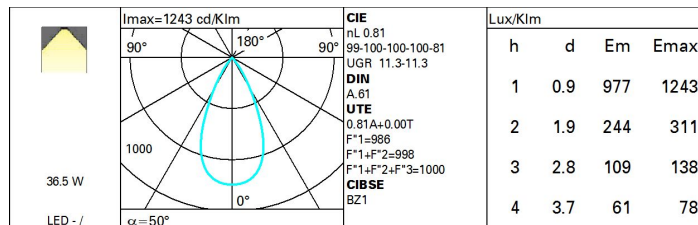


Technical data

Im system:	3642.3
W system:	36.5
Im source:	4500
W source:	32
Luminous efficiency (Im/W, real value):	99.8
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	81
Beam angle [°]:	50°
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

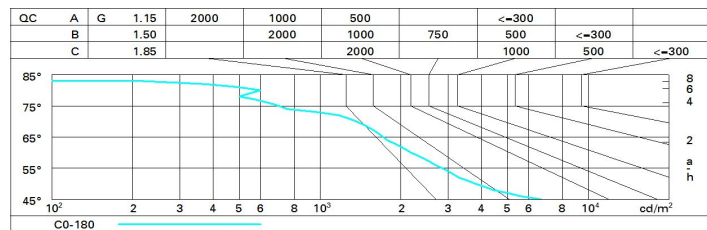
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	69	66	64	68	66	65	63	77
1.0	76	73	70	68	72	69	69	66	82
1.5	80	77	75	73	76	74	74	71	88
2.0	82	80	79	78	79	78	77	75	92
2.5	84	82	81	80	81	80	79	77	95
3.0	85	84	83	82	83	82	81	79	97
4.0	86	85	85	84	84	83	82	80	99
5.0	86	86	85	85	85	84	83	81	100

Luminance curve limit



UGR diagram

Photometric curve code: MS280000.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											
2H	2H	11.8	12.4	12.1	12.6	12.8	11.8	12.4	12.1	12.6	12.8
	3H	11.7	12.2	12.0	12.5	12.7	11.7	12.2	12.0	12.5	12.7
	4H	11.6	12.1	11.9	12.4	12.7	11.6	12.1	11.9	12.4	12.7
	6H	11.5	12.0	11.9	12.3	12.6	11.5	12.0	11.9	12.3	12.6
	8H	11.5	11.9	11.9	12.2	12.6	11.5	11.9	11.9	12.2	12.6
	12H	11.5	11.9	11.8	12.2	12.6	11.5	11.9	11.8	12.2	12.5
4H	2H	11.6	12.1	11.9	12.4	12.7	11.6	12.1	11.9	12.4	12.7
	3H	11.5	11.9	11.8	12.2	12.6	11.5	11.9	11.8	12.2	12.6
	4H	11.4	11.7	11.8	12.1	12.5	11.4	11.7	11.8	12.1	12.5
	6H	11.3	11.6	11.7	12.0	12.4	11.3	11.6	11.7	12.0	12.4
	8H	11.3	11.5	11.7	12.0	12.4	11.3	11.5	11.7	12.0	12.4
	12H	11.2	11.5	11.7	11.9	12.3	11.2	11.5	11.7	11.9	12.3
8H	4H	11.3	11.5	11.7	12.0	12.4	11.3	11.5	11.7	12.0	12.4
	6H	11.2	11.4	11.6	11.8	12.3	11.2	11.4	11.6	11.8	12.3
	8H	11.1	11.3	11.6	11.8	12.3	11.1	11.3	11.6	11.8	12.3
	12H	11.1	11.2	11.6	11.7	12.2	11.1	11.2	11.6	11.7	12.2
12H	4H	11.2	11.5	11.7	11.9	12.3	11.2	11.5	11.7	11.9	12.3
	6H	11.1	11.3	11.6	11.8	12.3	11.1	11.3	11.6	11.8	12.3
	8H	11.1	11.2	11.6	11.7	12.2	11.1	11.2	11.6	11.7	12.2
Variations with the observer position at spacing:											
S =	1.0H		6.0	/	-12.8			6.0	/	-12.8	
	1.5H		8.8	/	-14.2			8.8	/	-14.2	
	2.0H		10.8	/	-14.9			10.8	/	-14.9	