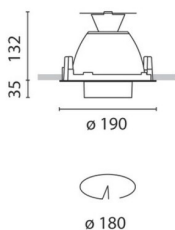


Last information update: May 2024

Product configuration: MS14

MS14: Recessed DALI extractable-control gear

**Product code**MS14: 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 3000K warm white colour tone with high color rendering index. Luminaire with medium 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)

Mounting

ceiling recessed

Wiring

product complete with DALI components

Notes

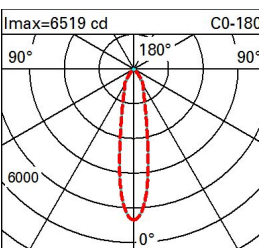
For compliance with the NFC 20-455 standard use an optional filter code MW57 for each optical assembly

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	1924	CRI:	90
W system:	25.1	Colour temperature [K]:	3000
lm source:	2500	MacAdam Step:	2
W source:	22	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	76.6	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 [°]:	22°	Control:	DALI

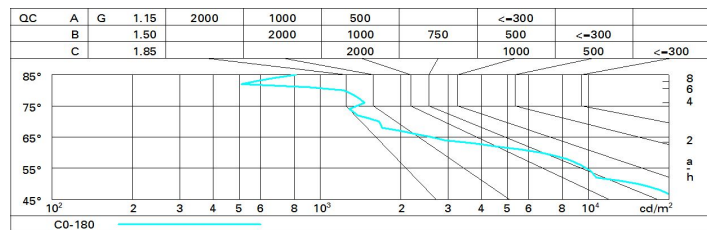
Polar

 <p>$\alpha = 22^\circ$</p>	CIE nL 0.77 97-100-100-100-77 UGR 19.8-19.7 DIN A.61 UTE 0.77A+0.00T F*1=965 F*1+F*2=997 F*1+F*2+F*3=1000		Lux				
			h	d1	d2	Em	Emax
			2	0.8	0.8	1264	1630
			4	1.6	1.6	316	407
			6	2.3	2.3	140	181
		8	3.1	3.1	79	102	

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	68	64	62	60	64	61	61	58	76
1.0	72	68	66	64	67	65	65	62	81
1.5	75	73	71	69	72	70	69	67	87
2.0	78	76	75	73	75	74	73	71	92
2.5	79	78	77	76	77	76	75	73	95
3.0	80	79	79	78	78	77	76	74	97
4.0	81	81	80	79	79	79	78	76	98
5.0	82	81	81	81	80	80	78	77	99

Luminance curve limit



UGR diagram

Corrected UGR values (at 2500 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	20.0	22.3	20.9	22.5	22.8	20.0	22.3	20.9	22.5	22.8
	3H	20.5	21.7	20.8	22.0	22.3	20.5	21.7	20.8	22.0	22.3
	4H	20.4	21.5	20.7	21.8	22.2	20.4	21.5	20.8	21.8	22.2
	6H	20.3	21.4	20.7	21.7	22.1	20.3	21.4	20.7	21.8	22.1
	8H	20.2	21.3	20.6	21.7	22.1	20.2	21.3	20.6	21.7	22.1
	12H	20.2	21.3	20.6	21.6	22.0	20.2	21.3	20.6	21.6	22.0
4H	2H	20.4	21.5	20.8	21.8	22.2	20.4	21.5	20.7	21.8	22.2
	3H	20.2	21.3	20.6	21.6	22.0	20.2	21.3	20.6	21.7	22.0
	4H	20.1	21.1	20.5	21.5	21.9	20.1	21.1	20.5	21.5	21.9
	6H	19.9	21.1	20.3	21.6	22.0	19.9	21.1	20.3	21.6	22.0
	8H	19.8	21.2	20.2	21.6	22.1	19.7	21.2	20.2	21.6	22.1
	12H	19.6	21.2	20.1	21.7	22.2	19.6	21.2	20.1	21.7	22.2
8H	4H	19.7	21.2	20.2	21.6	22.1	19.8	21.2	20.2	21.6	22.1
	6H	19.6	21.0	20.1	21.5	22.0	19.6	21.0	20.1	21.5	22.0
	8H	19.6	20.8	20.1	21.3	21.8	19.6	20.8	20.1	21.3	21.8
	12H	19.7	20.6	20.2	21.1	21.6	19.7	20.6	20.2	21.1	21.6
12H	4H	19.6	21.2	20.1	21.7	22.2	19.6	21.2	20.1	21.7	22.2
	6H	19.6	20.8	20.1	21.3	21.8	19.6	20.8	20.1	21.3	21.8
	8H	19.7	20.6	20.2	21.1	21.6	19.7	20.6	20.2	21.1	21.6
Variations with the observer position at spacing:											
S =		1.0H	4.8 / -10.4				4.8 / -10.4				
		1.5H	7.5 / -14.3				7.5 / -14.3				
		2.0H	9.5 / -17.2				9.5 / -17.2				