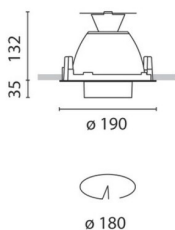


Last information update: May 2024

**Product configuration: MR99**

MR99: Recessed DALI extractable-control gear

**Product code**MR99: 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)

**Mounting**

ceiling recessed

**Wiring**

product complete with DALI components

**Notes**

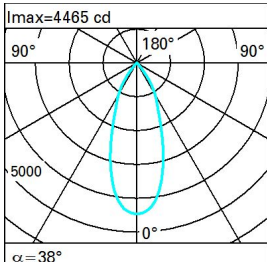
For compliance with the NFC 20-455 standard use an optional filter code MW57 for each optical assembly

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	2397	CRI:	80
W system:	25.1	Colour temperature [K]:	4000
lm source:	3000	MacAdam Step:	2
W source:	22	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	95.5	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.) [%]:	80	Number of optical assemblies:	1
Beam angle [°]:	38°	Control:	DALI

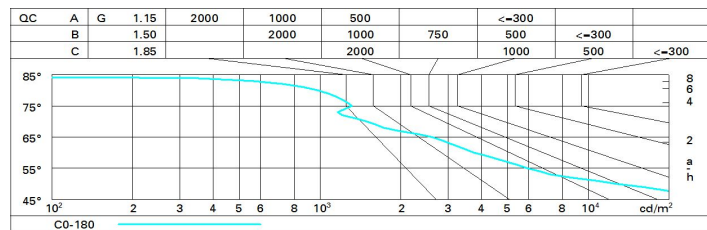
**Polar**

	<b>CIE</b> nL 0.80 97-100-100-100-80 UGR 20.3-20.3 <b>DIN</b> A.61 <b>UTE</b> 0.80A+0.00T F*1=972 F*1+F*2=998 F*1+F*2+F*3=1000			
	h	d	Em	E <sub>max</sub>
	2	1.4	874	1116
	4	2.8	219	279
	6	4.1	97	124
	8	5.5	55	70

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	71	67	65	62	67	64	64	61	76
1.0	75	71	68	67	70	68	68	65	81
1.5	79	76	74	72	75	73	72	70	87
2.0	81	79	78	76	78	77	76	74	92
2.5	83	81	80	79	80	79	78	76	95
3.0	84	83	82	81	81	81	79	77	97
4.0	85	84	83	83	83	82	81	79	99
5.0	85	85	84	84	83	83	82	80	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 3000 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	20.9	21.5	21.2	21.8	22.0	20.9	21.5	21.2	21.8	22.0
	3H	20.7	21.3	21.1	21.6	21.9	20.7	21.3	21.1	21.6	21.9
	4H	20.7	21.2	21.0	21.5	21.8	20.7	21.2	21.0	21.5	21.8
	6H	20.6	21.1	20.9	21.4	21.7	20.6	21.1	20.9	21.4	21.7
	8H	20.6	21.0	20.9	21.4	21.7	20.6	21.0	20.9	21.4	21.7
	12H	20.5	21.0	20.9	21.3	21.7	20.5	21.0	20.9	21.3	21.7
4H	2H	20.7	21.2	21.0	21.5	21.8	20.7	21.2	21.0	21.5	21.8
	3H	20.5	21.0	20.9	21.3	21.7	20.5	21.0	20.9	21.3	21.7
	4H	20.4	20.8	20.8	21.2	21.6	20.4	20.8	20.8	21.2	21.6
	6H	20.3	20.7	20.8	21.1	21.5	20.3	20.7	20.8	21.1	21.5
	8H	20.3	20.6	20.7	21.0	21.5	20.3	20.6	20.7	21.0	21.5
	12H	20.3	20.5	20.7	21.0	21.4	20.2	20.5	20.7	21.0	21.4
8H	4H	20.3	20.6	20.7	21.0	21.5	20.3	20.6	20.7	21.0	21.5
	6H	20.2	20.5	20.7	20.9	21.4	20.2	20.5	20.7	20.9	21.4
	8H	20.2	20.4	20.6	20.9	21.4	20.2	20.4	20.6	20.9	21.4
	12H	20.1	20.3	20.6	20.8	21.3	20.1	20.3	20.6	20.8	21.3
12H	4H	20.2	20.5	20.7	21.0	21.4	20.3	20.5	20.7	21.0	21.4
	6H	20.2	20.4	20.6	20.9	21.4	20.2	20.4	20.6	20.9	21.4
	8H	20.1	20.3	20.6	20.8	21.3	20.1	20.3	20.6	20.8	21.3
Variations with the observer position at spacing:											
S =	1.0H	5.2 / -14.1					5.2 / -14.1				
	1.5H	8.0 / -16.5					8.0 / -16.5				
	2.0H	10.0 / -18.5					10.0 / -18.5				