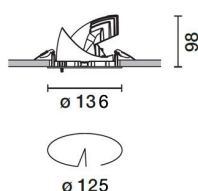


Last information update: May 2024

Product configuration: Q239

Q239: extractable, adjustable, recessed LED luminaire - electronic control gear included

**Product code**Q239: extractable, adjustable, recessed LED luminaire - electronic control gear included **Attention! Code no longer in production****Technical description**

Extractable, adjustable, recessed luminaire for warm white LED lamp with high color rendering index. Passive heat dispersion system. Die-cast aluminium main body and frame; stainless steel rotation hinge. Rotation ring with safety cover in a high resistance thermoplastic material. Body adjusted with a manual manoeuvre device: internal 40° - external 65° - rotation on 355° axis. Reflector with high efficiency super-pure aluminium optic - flood beam angle. Die-cast aluminium lamp body closure ring. Tempered transparent glass screen. Electronic control gear supplied and connected to the luminaire.

Installation

recessed using steel springs in false ceilings with thicknesses starting at 1 mm; preparation hole Ø 125 mm

Colour

White (01)

Weight (Kg)

0.85

Mounting

ceiling recessed

Wiring

on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	2209	CRI:	90
W system:	28.3	Colour temperature [K]:	3000
lm source:	2800	MacAdam Step:	2
W source:	24	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	78.1	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.) [%]:	79	Number of optical assemblies:	1
Beam angle [°]:	42°		

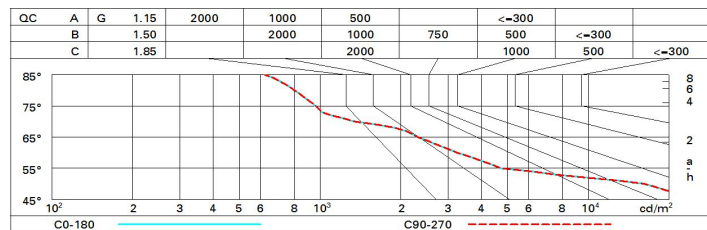
Polar

<p>Imax=3801 cd α=42°</p>	CIE nL 0.79 97-100-100-100-79 UGR 20.0-20.0 DIN A.61 UTE 0.79A+0.00T F*1=968 F*1+F*2=998 F*1+F*2+F*3=1000 CIBSE LG3 L<3000 cd/m² at 65°				Lux			
	h	d	Em	E _{max}	h	d	Em	E _{max}
	2	1.5	736	950				
	4	3.1	184	238				
	6	4.6	82	106				
	8	6.1	46	59				

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	73	70	67	66	69	67	67	64	81
1.5	77	75	73	71	74	72	71	69	87
2.0	80	78	77	75	77	76	75	72	92
2.5	82	80	79	78	79	78	77	75	95
3.0	83	82	81	80	80	79	78	76	97
4.0	84	83	82	82	81	81	80	78	99
5.0	84	84	83	83	82	82	80	79	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 2800 lm bare lamp luminous flux)											
Reflect.: ceiling walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	20.5	21.2	20.8	21.5	21.7	20.5	21.2	20.8	21.5	21.7
	3H	20.4	21.0	20.7	21.3	21.6	20.4	21.0	20.7	21.3	21.6
	4H	20.3	20.9	20.7	21.2	21.5	20.3	20.9	20.7	21.2	21.5
	6H	20.3	20.8	20.6	21.1	21.4	20.3	20.8	20.6	21.1	21.4
	8H	20.2	20.7	20.6	21.1	21.4	20.2	20.7	20.6	21.0	21.4
	12H	20.2	20.7	20.6	21.0	21.4	20.2	20.7	20.6	21.0	21.4
4H	2H	20.3	20.9	20.7	21.2	21.5	20.3	20.9	20.7	21.2	21.5
	3H	20.2	20.7	20.6	21.0	21.4	20.2	20.7	20.6	21.0	21.4
	4H	20.1	20.5	20.5	20.9	21.3	20.1	20.5	20.5	20.9	21.3
	6H	20.0	20.4	20.5	20.8	21.2	20.0	20.4	20.4	20.8	21.2
	8H	20.0	20.3	20.4	20.7	21.2	20.0	20.3	20.4	20.7	21.2
	12H	19.9	20.2	20.4	20.7	21.1	19.9	20.2	20.4	20.7	21.1
8H	4H	20.0	20.3	20.4	20.7	21.2	20.0	20.3	20.4	20.7	21.2
	6H	19.9	20.2	20.4	20.6	21.1	19.9	20.2	20.4	20.6	21.1
	8H	19.8	20.1	20.3	20.5	21.0	19.8	20.1	20.3	20.5	21.0
	12H	19.8	20.0	20.3	20.5	21.0	19.8	20.0	20.3	20.5	21.0
12H	4H	19.9	20.2	20.4	20.7	21.1	19.9	20.2	20.4	20.7	21.1
	6H	19.8	20.1	20.3	20.5	21.0	19.8	20.1	20.3	20.5	21.0
	8H	19.8	20.0	20.3	20.5	21.0	19.8	20.0	20.3	20.5	21.0
Variations with the observer position at spacing:											
S =		5.1 / -14.3					5.1 / -14.3				
		7.9 / -16.4					7.9 / -16.4				
		9.9 / -17.8					9.9 / -17.8				