

Last information update: June 2018

**extractable, adjustable, recessed LED luminaire - electronic control gear included****Product code**

Q239

**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

**Dimension (mm)**

Ø136x98

**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

**IP20** **IP23** On the visible part of the product once installed

**Product configuration: Q239****Product characteristics**

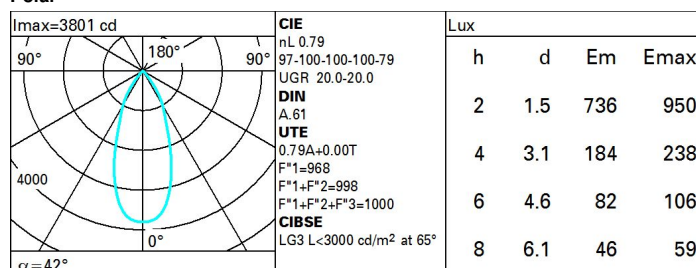
Total lighting output [Lm]: 2209  
Total power [W]: 28.3  
Luminous efficacy [Lm/W]: 78.1  
Life Time: 50,000h - L80 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0  
Emergency luminous flux [Lm]: /  
Voltage [V]: -  
Number of optical assemblies: 1

**Optical assembly Characteristics Type 1**

Light Output Ratio (L.O.R.) [%]: 79  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 24  
Nominal luminous [Lm]: 2800  
Lamp maximum intensity [cd]: /  
Beam angle [°]: 42°

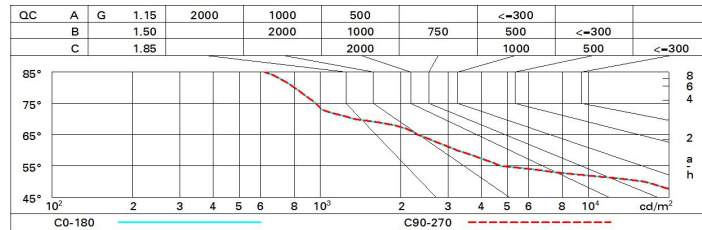
Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 4.3  
Colour temperature [K]: 3000  
CRI: 90  
Wavelength [Nm]: /  
MacAdam Step: 2

**Polar**

# 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/cav		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		viewed					viewed				
x y		crosswise					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 =		1.0H	5.1 / -14.3				5.1 / -14.3				
		1.5H	7.9 / -16.4				7.9 / -16.4				
		2.0H	9.9 / -17.8				9.9 / -17.8				