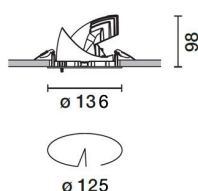


Last information update: May 2024

**Product configuration: Q238**

Q238: extractable, adjustable, recessed LED luminaire - electronic control gear included

**Product code**Q238: 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 - spot 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



IP20

IP23

On the visible part of the product once installed

**Technical data**

lm system:	2156	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):	76.2	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 [°]:	18°		

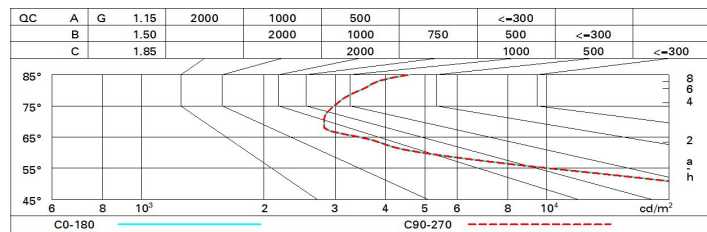
**Polar**

Imax=6906 cd		CIE		Lux			
90°	180°	nL 0.77		h	d	Em	E <sub>max</sub>
		94-100-100-100-77		2	0.6	1377	1727
		UGR 21.5-21.5		4	1.3	344	432
		DIN A.61		6	1.9	153	192
		UTE 0.77A+0.00T		8	2.5	86	108
		F*1=941					
		F*1+F*2=995					
		F*1+F*2+F*3=999					
α = 18°							

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	68	63	61	58	63	60	60	57	74
1.0	71	67	65	63	66	64	64	61	79
1.5	75	72	70	68	71	69	69	66	86
2.0	78	76	74	73	75	73	72	70	91
2.5	79	78	76	75	77	75	75	72	94
3.0	80	79	78	77	78	77	76	74	96
4.0	81	80	80	79	79	79	77	75	98
5.0	82	81	81	80	80	79	78	76	99

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 2800 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	22.3	23.8	22.6	24.1	24.4	22.3	23.8	22.6	24.1	24.4
	3H	22.2	23.3	22.5	23.6	23.9	22.2	23.3	22.5	23.6	23.9
	4H	22.1	23.1	22.4	23.4	23.8	22.1	23.1	22.4	23.4	23.8
	6H	21.9	23.1	22.3	23.4	23.8	21.9	23.1	22.3	23.4	23.8
	8H	21.9	23.0	22.3	23.4	23.7	21.9	23.0	22.3	23.4	23.7
	12H	21.8	23.0	22.3	23.3	23.7	21.8	22.9	22.2	23.3	23.7
4H	2H	22.1	23.1	22.4	23.4	23.8	22.1	23.1	22.4	23.4	23.8
	3H	21.8	23.0	22.3	23.3	23.7	21.8	23.0	22.3	23.3	23.7
	4H	21.7	22.8	22.2	23.2	23.6	21.7	22.8	22.2	23.2	23.6
	6H	21.6	22.8	22.0	23.2	23.6	21.6	22.8	22.0	23.2	23.6
	8H	21.5	22.8	22.0	23.2	23.7	21.5	22.8	21.9	23.2	23.7
	12H	21.4	22.8	21.9	23.3	23.8	21.3	22.8	21.8	23.2	23.7
8H	4H	21.5	22.8	21.9	23.2	23.7	21.5	22.8	22.0	23.2	23.7
	6H	21.3	22.6	21.8	23.1	23.6	21.3	22.7	21.8	23.1	23.6
	8H	21.3	22.5	21.8	23.0	23.5	21.3	22.5	21.8	23.0	23.5
	12H	21.4	22.3	21.9	22.7	23.3	21.4	22.2	21.9	22.7	23.3
12H	4H	21.3	22.8	21.8	23.2	23.7	21.4	22.8	21.9	23.3	23.8
	6H	21.3	22.5	21.8	23.0	23.5	21.3	22.5	21.8	23.0	23.5
	8H	21.4	22.2	21.9	22.7	23.3	21.4	22.3	21.9	22.7	23.3
Variations with the observer position at spacing:											
S =		3.8 / -10.2					3.8 / -10.2				
		6.5 / -12.2					6.5 / -12.2				
		8.5 / -12.7					8.5 / -12.7				