

Last information update: June 2018

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

Q241

**Technical description**

Extractable, adjustable, recessed luminaire for neutral white LED lamp. 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. Dimmable DALI 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: Q241****Product characteristics**

Total lighting output [Lm]: 2310  
Total power [W]: 24.1  
Luminous efficacy [Lm/W]: 95.9  
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.) [%]: 77  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 21  
Nominal luminous [Lm]: 3000  
Lamp maximum intensity [cd]: /  
Beam angle [°]: 18°

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 3.1  
Colour temperature [K]: 4000  
CRI: 80  
Wavelength [Nm]: /  
MacAdam Step: 2

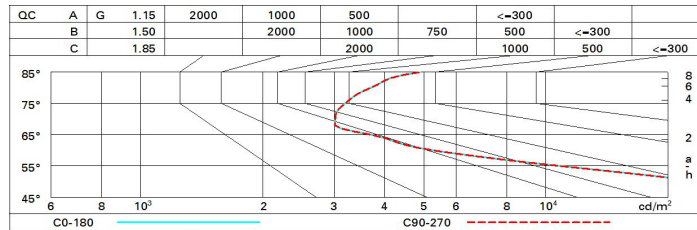
**Polar**

Imax=7400 cd	CIE nL 0.77 94-100-100-100-77 UGR 21.7-21.7 DIN A.61 UTE 0.77A+0.00T F*1=941 F*1+F*2=995 F*1+F*2+F*3=999	Lux			
		h	d	Em	E <sub>max</sub>
90°		2	0.6	1475	1850
7500		4	1.3	369	462
		6	1.9	164	206
		8	2.5	92	116
0°					
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 3000 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
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 crosswise					viewed endwise				
x	y										
2H	2H	22.5	24.0	22.8	24.3	24.6	22.5	24.0	22.8	24.3	24.6
	3H	22.4	23.5	22.7	23.8	24.1	22.4	23.5	22.7	23.8	24.1
	4H	22.3	23.4	22.7	23.7	24.0	22.3	23.4	22.7	23.7	24.0
	6H	22.2	23.3	22.6	23.7	24.0	22.2	23.3	22.6	23.6	24.0
	8H	22.1	23.3	22.5	23.6	24.0	22.1	23.2	22.5	23.6	24.0
	12H	22.1	23.2	22.5	23.6	23.9	22.1	23.2	22.5	23.5	23.9
4H	2H	22.3	23.4	22.7	23.7	24.0	22.3	23.4	22.7	23.7	24.0
	3H	22.1	23.2	22.5	23.6	23.9	22.1	23.2	22.5	23.6	23.9
	4H	22.0	23.0	22.4	23.4	23.8	22.0	23.0	22.4	23.4	23.8
	6H	21.8	23.0	22.3	23.4	23.9	21.8	23.0	22.3	23.4	23.9
	8H	21.7	23.0	22.2	23.5	23.9	21.7	23.0	22.2	23.4	23.9
	12H	21.6	23.0	22.1	23.5	24.0	21.6	23.0	22.1	23.5	24.0
8H	4H	21.7	23.0	22.2	23.4	23.9	21.7	23.0	22.2	23.5	23.9
	6H	21.6	22.9	22.1	23.4	23.9	21.6	22.9	22.1	23.4	23.9
	8H	21.6	22.7	22.1	23.2	23.7	21.6	22.7	22.1	23.2	23.7
	12H	21.6	22.5	22.1	23.0	23.5	21.6	22.5	22.1	23.0	23.5
12H	4H	21.6	23.0	22.1	23.5	24.0	21.6	23.0	22.1	23.5	24.0
	6H	21.6	22.7	22.1	23.2	23.7	21.6	22.7	22.1	23.2	23.7
	8H	21.6	22.5	22.1	23.0	23.5	21.6	22.5	22.1	23.0	23.5
Variations with the observer position at spacing:											
S =	1.0H	3.8 / -10.2					3.8 / -10.2				
	1.5H	6.5 / -12.2					6.5 / -12.2				
	2.0H	8.5 / -12.7					8.5 / -12.7				