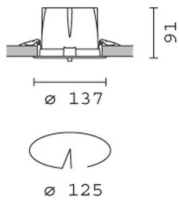


Last information update: June 2018



recessed luminaire Ø 137 - warm white passive dissipation LED - CRI (Ra) > 90 - integrated DALI control gear - medium

Product code

Q196

Technical description

recessed adjustable removable luminaire for LED lamp with passive heat dissipation system. Structure with die-cast aluminium frame and main body; shaped surface with high level radiant effect for effectively reducing the temperature and keeping the long-term LED lamp performance unchanged. Steel rotation hinge, chrome-plated aluminium body closing ring. Reflector with high efficiency super-pure aluminium optic - medium beam angle. Body adjusted using manually operated device: internal 30° - external 75° - rotation about axis 355°. Supplied with DALI dimmable control gear connected to the luminaire. Warm white high colour rendering index LED CRI (Ra) > 90.

Installation

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

Dimension (mm)

Ø137x91

Colour

White/Aluminium (39) | Grey/Aluminium (78)

Weight (Kg)

1.02

Mounting

ceiling recessed

Wiring

on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

**Product configuration: Q196****Product characteristics**

Total lighting output [Lm]: 1975
Total power [W]: 23.8
Luminous efficacy [Lm/W]: 83
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]: 21
Nominal luminous [Lm]: 2500
Lamp maximum intensity [cd]: /
Beam angle [°]: 22°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.8
Colour temperature [K]: 3000
CRI: 90
Wavelength [nm]: /
MacAdam Step: 2

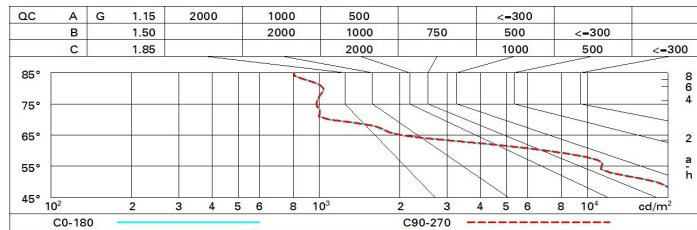
Polar

Imax=6644 cd	CIE nL 0.79 95-100-100-100-79 UGR 19.7-19.7 DIN A.61 UTE 0.79A+0.00T F*1=954 F*1+F*2=997 F*1+F*2+F*3=1000 CIBSE LG3 L<3000 cd/m² at 65°	Lux			
		h	d	Em	Emax
	2	0.8	1312	1661	
	4	1.6	328	415	
	6	2.3	146	185	
	8	3.1	82	104	

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	70	66	63	61	65	62	62	59	75
1.0	73	70	67	65	69	66	66	63	80
1.5	77	75	72	71	74	72	71	68	87
2.0	80	78	76	75	77	75	74	72	91
2.5	81	80	79	78	79	78	77	75	94
3.0	82	81	80	80	80	79	78	76	96
4.0	84	83	82	81	81	81	80	78	98
5.0	84	83	83	83	82	82	80	78	99

Luminance curve limit



UGR diagram

Corrected UGR values (at 2500 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											
x	y										
2H	2H	20.6	22.2	20.9	22.5	22.8	20.6	22.2	20.9	22.5	22.8
	3H	20.4	21.6	20.8	21.9	22.3	20.5	21.7	20.8	22.0	22.3
	4H	20.4	21.5	20.7	21.8	22.1	20.4	21.5	20.7	21.8	22.1
	6H	20.2	21.4	20.6	21.7	22.1	20.3	21.4	20.6	21.7	22.1
	8H	20.2	21.3	20.6	21.7	22.0	20.2	21.3	20.6	21.7	22.0
12H	20.2	21.2	20.6	21.6	22.0	20.2	21.3	20.6	21.6	22.0	
4H	2H	20.4	21.5	20.7	21.8	22.1	20.4	21.5	20.7	21.8	22.1
	3H	20.2	21.3	20.6	21.6	22.0	20.2	21.3	20.6	21.6	22.0
	4H	20.1	21.1	20.5	21.5	21.9	20.1	21.1	20.5	21.5	21.9
	6H	19.8	21.1	20.3	21.6	22.0	19.8	21.1	20.3	21.6	22.0
	8H	19.7	21.1	20.2	21.6	22.1	19.7	21.1	20.2	21.6	22.1
12H	19.6	21.2	20.1	21.6	22.1	19.6	21.2	20.1	21.6	22.1	
8H	4H	19.7	21.1	20.2	21.6	22.1	19.7	21.1	20.2	21.6	22.1
	6H	19.6	21.0	20.1	21.5	22.0	19.6	21.0	20.1	21.5	22.0
	8H	19.6	20.8	20.1	21.3	21.8	19.6	20.8	20.1	21.3	21.8
	12H	19.6	20.5	20.2	21.0	21.6	19.6	20.5	20.2	21.0	21.6
12H	4H	19.6	21.2	20.1	21.6	22.1	19.6	21.2	20.1	21.6	22.1
	6H	19.6	20.8	20.1	21.3	21.8	19.6	20.8	20.1	21.3	21.8
	8H	19.6	20.5	20.2	21.0	21.6	19.6	20.5	20.2	21.0	21.6
Variations with the observer position at spacing:											
S =	1.0H	4.3 / -9.6				4.3 / -9.6					
	1.5H	7.1 / -15.0				7.1 / -15.0					
	2.0H	9.1 / -18.0				9.1 / -18.0					