

Last information update: June 2018



recessed luminaire Ø 137 - 4000K neutral white LED passive dissipation - integrated DALI control gear - flood

Product code

Q189

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 -wide flood 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. Neutral white high efficiency LED.

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



IP20

**Product configuration: Q189****Product characteristics**

Total lighting output [Lm]: 2367
Total power [W]: 23.8
Luminous efficacy [Lm/W]: 99.5
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]: 3000
Lamp maximum intensity [cd]: /
Beam angle [°]: 42°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.8
Colour temperature [K]: 4000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 2

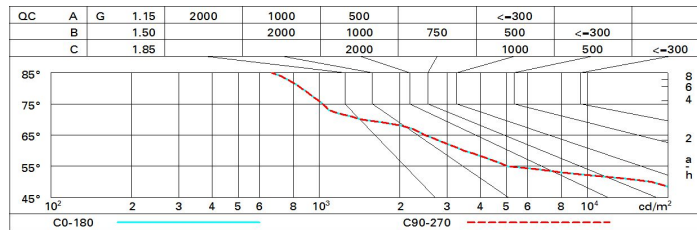
Polar

	Lux			
	h	d	Em	Emax
CIE nL 0.79 97-100-100-100-79 UGR 20.2-20.2 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/m ² at 65°	2	1.5	789	1018
	4	3.1	197	255
	6	4.6	88	113
	8	6.1	49	64

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 3000 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											
x	y										
				viewed					viewed		
				crosswise					endwise		
2H	2H	20.8	21.5	21.1	21.7	21.9	20.8	21.5	21.1	21.7	21.9
	3H	20.7	21.3	21.0	21.5	21.8	20.7	21.3	21.0	21.5	21.8
	4H	20.6	21.1	20.9	21.4	21.7	20.6	21.1	20.9	21.4	21.7
	6H	20.5	21.0	20.9	21.3	21.7	20.5	21.0	20.9	21.3	21.7
	8H	20.5	21.0	20.8	21.3	21.6	20.5	21.0	20.8	21.3	21.6
	12H	20.4	20.9	20.8	21.2	21.6	20.4	20.9	20.8	21.2	21.6
4H	2H	20.6	21.1	20.9	21.4	21.7	20.6	21.1	20.9	21.4	21.7
	3H	20.4	20.9	20.8	21.2	21.6	20.4	20.9	20.8	21.2	21.6
	4H	20.3	20.8	20.7	21.1	21.5	20.3	20.8	20.7	21.1	21.5
	6H	20.3	20.6	20.7	21.0	21.4	20.3	20.6	20.7	21.0	21.4
	8H	20.2	20.6	20.7	21.0	21.4	20.2	20.5	20.7	21.0	21.4
	12H	20.2	20.5	20.6	20.9	21.4	20.2	20.5	20.6	20.9	21.4
8H	4H	20.2	20.5	20.7	21.0	21.4	20.2	20.6	20.7	21.0	21.4
	6H	20.1	20.4	20.6	20.8	21.3	20.1	20.4	20.6	20.8	21.3
	8H	20.1	20.3	20.6	20.8	21.3	20.1	20.3	20.6	20.8	21.3
	12H	20.0	20.2	20.5	20.7	21.2	20.0	20.2	20.5	20.7	21.2
12H	4H	20.2	20.5	20.6	20.9	21.4	20.2	20.5	20.6	20.9	21.4
	6H	20.1	20.3	20.6	20.8	21.3	20.1	20.3	20.6	20.8	21.3
	8H	20.0	20.2	20.5	20.7	21.2	20.0	20.2	20.5	20.7	21.2
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			