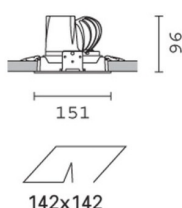
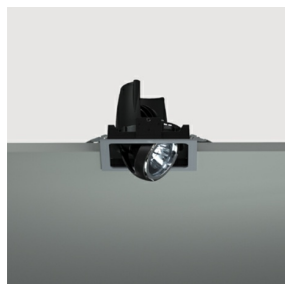


Last information update: May 2024

**Product configuration: Q199**

Q199: square recessed luminaire - neutral white passive dissipation - integrated electronic control gear - wide flood

**Product code**Q199: square recessed luminaire - neutral white passive dissipation - integrated electronic control gear - wide flood **Attention! Code no longer in production****Technical description**

Recessed adjustable removable luminaire for LED lamp with passive heat dissipation system. Square sheet steel perimeter frame. Main structure made of die-cast aluminium. Steel rotation hinges. Die-cast aluminium lamp body with shaped surface for high level radiant effect for effectively reducing the temperature and keeping the long-term LED lamp performance unchanged. Chrome-plated aluminium lamp body closing ring. Reflector with high efficiency super-pure aluminium optic - wide flood beam angle. Body adjusted using manually operated device: internal 29° - external 75° - rotation about axis 355°. Supplied with electronic control gear connected to the luminaire. Neutral white high efficiency LED.

**Installation**

recessed using steel springs for false ceilings with thicknesses starting at 1 mm; preparation slot 142 x 142 mm

**Colour**

White / Aluminium (39) | Grey / Black / Aluminium (E1)

**Weight (Kg)**

0.95

**Mounting**

ceiling recessed

**Wiring**

on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	2338	CRI:	80
W system:	24.7	Colour temperature [K]:	4000
Im source:	3000	MacAdam Step:	2
W source:	21	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (Im/W, real value):	94.7	Lamp code:	LED
Im 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.) [%]:	78	Number of optical assemblies:	1
Beam angle [°]:	54°		

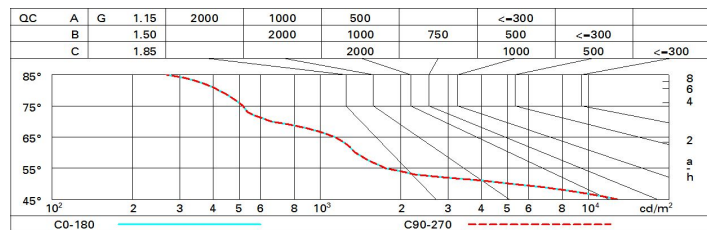
**Polar**

Imax=3107 cd		CIE		Lux			
90°	180°	nL 0.78		h	d	Em	Emax
		97-100-100-100-78		2	2	600	773
		UGR 16.4-16.4		4	4.1	150	193
		DIN A.61		6	6.1	67	86
		UTE 0.78A+0.00T		8	8.2	38	48
		F*1=965					
		F*1+F*2=997					
		F*1+F*2+F*3=1000					
		CIBSE LG3 L<1500 cd/m² at 65°					
		UGR<19   L<1500 cd/mq @65°					
α=54°							

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	69	65	63	60	65	62	62	59	76
1.0	72	69	66	65	68	66	66	63	81
1.5	76	74	72	70	73	71	70	68	87
2.0	79	77	75	74	76	75	74	71	92
2.5	80	79	78	77	78	77	76	74	95
3.0	81	80	80	79	79	78	77	75	97
4.0	83	82	81	81	80	80	79	77	98
5.0	83	82	82	82	81	81	79	78	99

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 3000 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	17.0	17.6	17.2	17.8	18.1	17.0	17.6	17.2	17.8	18.1
	3H	16.8	17.4	17.1	17.7	17.9	16.8	17.4	17.1	17.7	17.9
	4H	16.8	17.3	17.1	17.6	17.9	16.8	17.3	17.1	17.6	17.9
	6H	16.7	17.2	17.0	17.5	17.8	16.7	17.2	17.0	17.5	17.8
	8H	16.7	17.1	17.0	17.4	17.8	16.6	17.1	17.0	17.4	17.8
	12H	16.6	17.1	17.0	17.4	17.7	16.6	17.1	17.0	17.4	17.7
4H	2H	16.8	17.3	17.1	17.6	17.9	16.8	17.3	17.1	17.6	17.9
	3H	16.6	17.1	17.0	17.4	17.8	16.6	17.1	17.0	17.4	17.8
	4H	16.5	16.9	16.9	17.3	17.7	16.5	16.9	16.9	17.3	17.7
	6H	16.4	16.8	16.9	17.2	17.6	16.4	16.8	16.9	17.2	17.6
	8H	16.4	16.7	16.8	17.1	17.6	16.4	16.7	16.8	17.1	17.6
	12H	16.4	16.6	16.8	17.1	17.5	16.4	16.6	16.8	17.1	17.5
8H	4H	16.4	16.7	16.8	17.1	17.6	16.4	16.7	16.8	17.1	17.6
	6H	16.3	16.6	16.8	17.0	17.5	16.3	16.6	16.8	17.0	17.5
	8H	16.3	16.5	16.7	16.9	17.4	16.3	16.5	16.7	16.9	17.4
	12H	16.2	16.4	16.7	16.9	17.4	16.2	16.4	16.7	16.9	17.4
12H	4H	16.4	16.6	16.8	17.1	17.5	16.4	16.6	16.8	17.1	17.5
	6H	16.3	16.5	16.7	16.9	17.4	16.3	16.5	16.7	16.9	17.4
	8H	16.2	16.4	16.7	16.9	17.4	16.2	16.4	16.7	16.9	17.4
Variations with the observer position at spacing:											
S =	1.0H	5.1 / -13.5					5.1 / -13.5				
	1.5H	7.9 / -14.7					7.9 / -14.7				
	2.0H	9.9 / -15.9					9.9 / -15.9				