

Last information update: June 2018

**Down LED plate - DALI - Working UGR < 19 - Warm - L 1196**

**Product code**  
QC02

**Technical description**

LED module set up for housing in initial or intermediate system profiles. High efficiency down emission for Working profiles (with a controlled luminance micro-prismatic screen). DALI dimmable control gear integrated in the luminaire. Extruded aluminium heat sink; high emission yield flux enhancer. Warm 3000K LED

**Installation**

Module insertion on profiles facilitated by a quick coupling system.

**Colour**

Indeterminate (00)

**Weight (Kg)**  
1.28

**Wiring**

Quick coupling terminal block connection to simplify connections between the subsequent modules. Complete with integrated dimmable digital DALI control gear.

Complies with EN60598-1 and pertinent regulations

IP20

**Product configuration: QC02****Product characteristics**

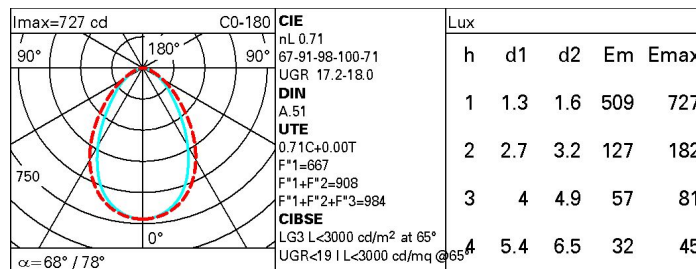
Total lighting output [Lm]: 1172  
Total power [W]: 10.5  
Luminous efficacy [Lm/W]: 111.8  
Life Time: > 50,000h - L90 - B10 (Ta 25°C)

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.) [%]: 71  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 8.9  
Nominal luminous [Lm]: 1650  
Lamp maximum intensity [cd]: /  
Beam angle [°]: /

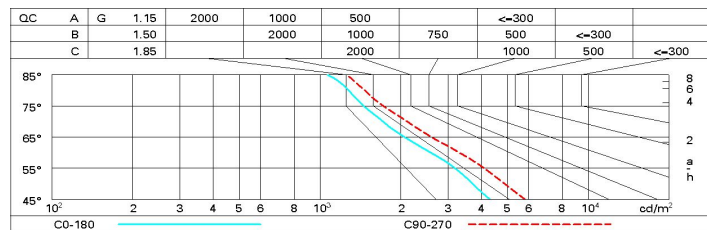
Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 1.6  
Colour temperature [K]: 3000  
CRI: 80  
Wavelength [Nm]: /  
MacAdam Step: 3

**Polar**

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	53	47	43	40	46	42	42	38	54
1.0	57	52	48	45	51	47	47	43	61
1.5	64	59	56	53	58	55	54	51	72
2.0	67	64	61	59	62	60	59	56	79
2.5	69	66	64	62	65	63	62	59	83
3.0	71	68	66	65	67	65	64	61	86
4.0	72	70	69	67	69	68	66	64	90
5.0	73	72	70	69	70	69	68	65	92

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 1650 lm bare lamp luminous flux)												
Reflect.:												
ceiling	av	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					viewed					
x	y	crosswise					endwise					
2H	2H	15.4	16.4	15.8	16.7	16.9	16.8	17.7	17.1	18.0	18.2	
	3H	16.1	16.9	16.4	17.2	17.5	16.9	17.8	17.3	18.1	18.4	
	4H	16.3	17.1	16.6	17.4	17.7	17.0	17.8	17.3	18.1	18.4	
	6H	16.4	17.2	16.8	17.5	17.8	16.9	17.7	17.3	18.0	18.4	
	8H	16.5	17.2	16.8	17.5	17.9	16.9	17.6	17.3	18.0	18.3	
	12H	16.5	17.2	16.9	17.5	17.9	16.9	17.6	17.3	17.9	18.3	
4H	2H	15.9	16.7	16.2	17.0	17.3	17.5	18.4	17.9	18.7	19.0	
	3H	16.6	17.3	17.0	17.6	18.0	17.9	18.6	18.3	18.9	19.3	
	4H	16.9	17.5	17.3	17.9	18.3	18.0	18.6	18.4	19.0	19.4	
	6H	17.1	17.7	17.6	18.1	18.5	18.0	18.5	18.5	19.0	19.4	
	8H	17.2	17.7	17.7	18.1	18.6	18.0	18.5	18.5	18.9	19.4	
	12H	17.2	17.7	17.7	18.1	18.6	18.0	18.4	18.5	18.9	19.3	
8H	4H	17.0	17.5	17.4	17.9	18.3	18.2	18.7	18.7	19.2	19.6	
	6H	17.3	17.7	17.8	18.2	18.7	18.4	18.8	18.8	19.2	19.7	
	8H	17.5	17.8	18.0	18.3	18.8	18.4	18.8	18.9	19.2	19.7	
	12H	17.6	17.9	18.1	18.4	18.9	18.4	18.7	18.9	19.2	19.7	
12H	4H	17.0	17.4	17.4	17.9	18.3	18.3	18.7	18.7	19.2	19.6	
	6H	17.4	17.7	17.8	18.2	18.7	18.4	18.8	18.9	19.3	19.8	
	8H	17.5	17.8	18.0	18.3	18.8	18.5	18.8	19.0	19.3	19.8	
Variations with the observer position at spacing:												
S =		1.0H					0.5 / -0.5					
		1.5H					0.6 / -1.3					
		2.0H					1.2 / -1.9					