

Last information update: June 2018

**Up / Down LED plate - ON-OFF - Working UGR < 19 - Neutral - L 1196****Product code**

QC04

Technical description

LED module set up for housing in initial or intermediate system profiles. High efficiency up + down emission for Working profiles (with a controlled luminance micro-prismatic lower screen). Electronic control gear integrated in the luminaire. Extruded aluminium heat sink; high emission yield flux enhancer. Neutral 4000K LED

Installation

Module insertion on profiles facilitated by a quick coupling system.

Colour

Indeterminate (00)

Weight (Kg)

1.6

Wiring

Quick coupling terminal block connection to simplify connections between the subsequent modules. Complete with integrated ON-OFF - non-dimmable control gear.

Complies with EN60598-1 and pertinent regulations

IP20

**Product configuration: QC04****Product characteristics**

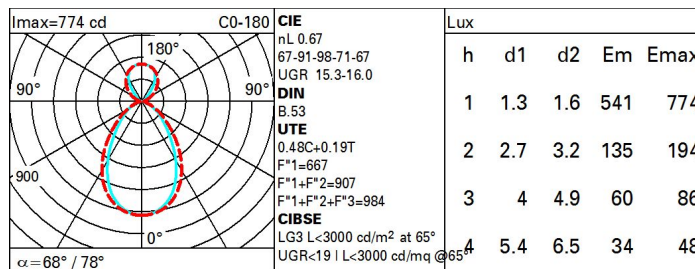
Total lighting output [Lm]: 1742
 Total power [W]: 15.7
 Luminous efficacy [Lm/W]: 111.2
 Life Time: > 50,000h - L90 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 499
 Emergency luminous flux [Lm]: /
 Voltage [V]: -
 Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 67
 Lamp code: LED
 ZVEI Code: LED
 Nominal power [W]: 13
 Nominal luminous [Lm]: 2600
 Lamp maximum intensity [cd]: /
 Beam angle [°]: /

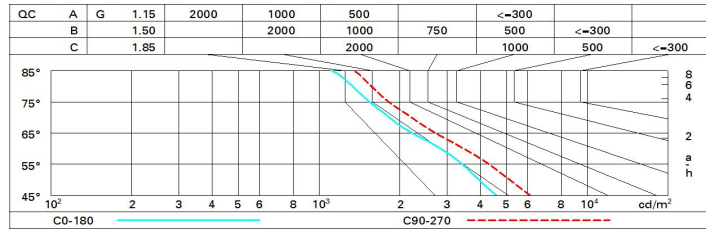
Number of lamps for optical assembly: 1
 Socket: /
 Ballast losses [W]: 2.7
 Colour temperature [K]: 4000
 CRI: 80
 Wavelength [Nm]: /
 MacAdam Step: 3

Polar

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	44	38	35	32	36	33	31	26	54
1.0	48	43	39	36	40	37	34	29	61
1.5	54	49	46	44	46	43	40	34	72
2.0	57	53	51	48	49	47	44	38	79
2.5	59	56	54	52	52	50	46	40	83
3.0	60	58	56	54	53	52	48	41	86
4.0	62	60	58	57	55	54	50	43	90
5.0	62	61	60	58	56	55	51	44	92

Luminance curve limit



UGR diagram

Corrected UGR values (at 2000 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceill/cav	walls	work pl.	Room dim	x	y						
0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30	
0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30	
0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
2H	2H	13.8	14.6	14.5	15.2	16.0	15.0	15.7	15.7	16.4	17.2
	3H	14.4	15.0	15.1	15.7	16.6	15.2	15.8	15.9	16.5	17.3
	4H	14.6	15.2	15.3	15.9	16.7	15.2	15.7	15.9	16.5	17.3
	6H	14.7	15.2	15.4	16.0	16.8	15.1	15.6	15.8	16.4	17.2
	8H	14.7	15.2	15.5	16.0	16.9	15.0	15.6	15.8	16.3	17.2
	12H	14.7	15.2	15.5	16.0	16.9	15.0	15.5	15.8	16.2	17.2
4H	2H	14.1	14.7	14.9	15.5	16.3	15.7	16.3	16.4	17.0	17.9
	3H	14.8	15.3	15.6	16.1	17.0	16.0	16.5	16.7	17.2	18.1
	4H	15.1	15.5	15.9	16.3	17.2	16.0	16.5	16.8	17.3	18.2
	6H	15.3	15.7	16.1	16.5	17.4	16.1	16.4	16.9	17.2	18.2
	8H	15.3	15.7	16.1	16.5	17.5	16.0	16.4	16.9	17.2	18.2
	12H	15.3	15.7	16.2	16.5	17.5	16.0	16.3	16.8	17.1	18.1
8H	4H	15.1	15.5	15.9	16.3	17.3	16.3	16.6	17.1	17.4	18.4
	6H	15.4	15.7	16.3	16.5	17.6	16.4	16.7	17.2	17.5	18.5
	8H	15.5	15.8	16.4	16.6	17.6	16.4	16.6	17.2	17.5	18.5
	12H	15.6	15.8	16.5	16.7	17.7	16.4	16.6	17.3	17.5	18.5
12H	4H	15.1	15.4	15.9	16.2	17.2	16.3	16.6	17.1	17.4	18.4
	6H	15.4	15.7	16.3	16.5	17.5	16.4	16.7	17.3	17.5	18.5
	8H	15.6	15.8	16.4	16.6	17.7	16.5	16.7	17.3	17.5	18.6
Variations with the observer position at spacing:											
S =	1.0H	0.5 / -0.5					0.3 / -0.5				
	1.5H	0.6 / -1.2					0.8 / -1.2				
	2.0H	1.2 / -1.9					1.8 / -1.8				