

Last information update: June 2018

**Down LED plate - DALI - Working UGR < 19 - Warm - L 3588****Product code**

QC03

**Technical description**

LED module set up for housing in intermediate system profiles, ideal for particularly long light lines. 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)**

3.8

**Wiring**

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

**Notes**

Important: the triple length intermediate luminous module can be used for both initial profiles - L 3594 - for stand-alone applications, and intermediate profiles - L 3594 - for continuous line applications.

Complies with EN60598-1 and pertinent regulations

IP20

**Product configuration: QC03****Product characteristics**

Total lighting output [Lm]: 3515  
Total power [W]: 29.7  
Luminous efficacy [Lm/W]: 118.5  
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]: 27  
Nominal luminous [Lm]: 4950  
Lamp maximum intensity [cd]: /  
Beam angle [°]: /

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 2.7  
Colour temperature [K]: 3000  
CRI: 80  
Wavelength [Nm]: /  
MacAdam Step: 3

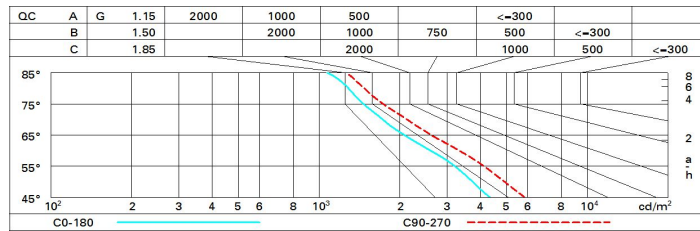
**Polar**

Polar		CIE		Lux	
Imax=2181 cd	C0-180	nL 0.71	67-91-98-100-71	h	d1 d2 Em Emax
90°	180°	UGR 17.2-18.0	DIN	2	2.7 3.2 382 545
			A.51	4	5.4 6.5 95 136
			UTE	6	8.1 9.7 42 61
			0.71C+0.00T	8	10.8 13 24 34
			F*1=667		
			F*1+F*2=908		
			F*1+F*2+F*3=984		
			CIBSE		
			LG3 L<3000 cd/m² at 65°		
			UGR<19   L<3000 cd/mq @65°		
α=68° / 78°					

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 4950 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	15.5	16.4	15.8	16.7	17.0	16.8	17.8	17.1	18.0	
	3H	16.1	17.0	16.4	17.2	17.5	17.0	17.8	17.3	18.1	
	4H	16.3	17.1	16.6	17.4	17.7	17.0	17.8	17.4	18.1	
	6H	16.4	17.2	16.8	17.5	17.9	17.0	17.7	17.3	18.0	
	8H	16.5	17.2	16.9	17.6	17.9	16.9	17.7	17.3	18.0	
	12H	16.5	17.2	16.9	17.5	17.9	16.9	17.6	17.3	17.9	
4H	2H	15.9	16.7	16.2	17.0	17.3	17.6	18.4	17.9	18.7	
	3H	16.6	17.3	17.0	17.6	18.0	17.9	18.6	18.3	18.9	
	4H	16.9	17.5	17.3	17.9	18.3	18.0	18.6	18.4	19.0	
	6H	17.2	17.7	17.6	18.1	18.5	18.0	18.6	18.5	19.0	
	8H	17.2	17.7	17.7	18.1	18.6	18.0	18.5	18.5	18.9	
	12H	17.3	17.7	17.7	18.2	18.6	18.0	18.5	18.5	18.9	
8H	4H	17.0	17.5	17.5	17.9	18.4	18.3	18.8	18.7	19.2	
	6H	17.4	17.8	17.8	18.2	18.7	18.4	18.8	18.9	19.3	
	8H	17.5	17.8	18.0	18.3	18.8	18.4	18.8	18.9	19.3	
	12H	17.6	17.9	18.1	18.4	18.9	18.5	18.8	19.0	19.2	
12H	4H	17.0	17.4	17.5	17.9	18.3	18.3	18.8	18.8	19.2	
	6H	17.4	17.7	17.9	18.2	18.7	18.5	18.8	19.0	19.3	
	8H	17.5	17.8	18.0	18.3	18.8	18.5	18.8	19.0	19.3	
Variations with the observer position at spacing:											
S =	1.0H	0.5 / -0.5					0.3 / -0.5				
	1.5H	0.6 / -1.3					0.8 / -1.2				
	2.0H	1.2 / -1.9					1.8 / -1.8				