

Last information update: June 2018

**Down LED plate - ON-OFF - Working UGR < 19 - Neutral - L 3588****Product code**

QB91

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). 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)

3.8

Wiring

Quick coupling terminal block connection to simplify connections between the subsequent modules. Complete with integrated ON-OFF - non-dimmable 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: QB91****Product characteristics**

Total lighting output [Lm]: 3728
 Total power [W]: 30.8
 Luminous efficacy [Lm/W]: 120.9
 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]: 5250
 Lamp maximum intensity [cd]: /
 Beam angle [°]: /

Number of lamps for optical assembly: 1
 Socket: /
 Ballast losses [W]: 3.8
 Colour temperature [K]: 4000
 CRI: 80
 Wavelength [Nm]: /
 MacAdam Step: 3

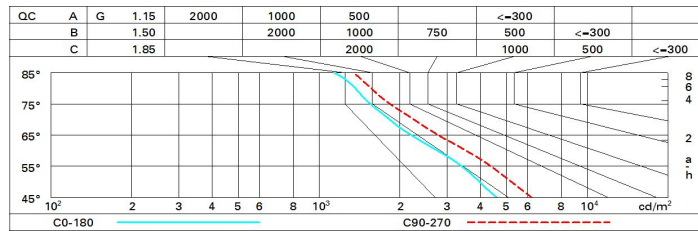
Polar

	C0-180		CIE		Lux				
	Imax=2314 cd	nL 0.71	67-91-98-100-71	UGR 17,4-18.2	h	d1	d2	Em	Emax
		DIN A.51	0.71C+0.00T	F*1=667	2	2.7	3.2	405	578
		UTE	F*1+F*2=908	F*1+F*2+F*3=984	4	5.4	6.5	101	145
		CIBSE	LG3 L<3000 cd/m² at 65°	UGR<19 L<3000 cd/mq @65°	6	8.1	9.7	45	64
					8	10.8	13	25	36

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 5250 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
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		viewed crosswise					viewed endwise				
x	y										
2H	2H	15.7	16.6	16.0	16.9	17.2	17.0	18.0	17.3	18.2	18.5
	3H	16.3	17.2	16.6	17.4	17.7	17.2	18.0	17.5	18.3	18.6
	4H	16.5	17.3	16.8	17.6	17.9	17.2	18.0	17.6	18.3	18.6
	6H	16.6	17.4	17.0	17.7	18.1	17.2	17.9	17.5	18.2	18.6
	8H	16.7	17.4	17.1	17.8	18.1	17.1	17.9	17.5	18.2	18.6
	12H	16.7	17.4	17.1	17.8	18.1	17.1	17.8	17.5	18.1	18.5
4H	2H	16.1	16.9	16.4	17.2	17.5	17.8	18.6	18.1	18.9	19.2
	3H	16.8	17.5	17.2	17.9	18.2	18.1	18.8	18.5	19.1	19.5
	4H	17.1	17.7	17.5	18.1	18.5	18.2	18.8	18.6	19.2	19.6
	6H	17.4	17.9	17.8	18.3	18.7	18.2	18.8	18.7	19.2	19.6
	8H	17.4	17.9	17.9	18.3	18.8	18.2	18.7	18.7	19.2	19.6
	12H	17.5	17.9	17.9	18.4	18.8	18.2	18.7	18.7	19.1	19.6
8H	4H	17.2	17.7	17.7	18.1	18.6	18.5	19.0	18.9	19.4	19.8
	6H	17.6	18.0	18.0	18.4	18.9	18.6	19.0	19.1	19.5	19.9
	8H	17.7	18.0	18.2	18.5	19.0	18.6	19.0	19.1	19.5	20.0
	12H	17.8	18.1	18.3	18.6	19.1	18.7	19.0	19.2	19.4	20.0
12H	4H	17.2	17.6	17.7	18.1	18.5	18.5	19.0	19.0	19.4	19.9
	6H	17.6	17.9	18.1	18.4	18.9	18.7	19.0	19.2	19.5	20.0
	8H	17.7	18.0	18.2	18.5	19.1	18.7	19.0	19.2	19.5	20.0
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				
							0.3 / -0.5				
							0.8 / -1.2				
							1.8 / -1.8				