

Last information update: November 2024

Product configuration: QB94+QZ87.01

QB94: Down plate - DALI - Working UGR < 19 - LED Neutral - L 1196

QZ87.01: Initial module - Minimal Down - UGR < 19 / Office / Working - L 2397 - TP(a) - White

Product code

QB94: Down plate - DALI - Working UGR < 19 - LED Neutral - L 1196

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. Neutral 4000K 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

**Product code**

QZ87.01: Initial module - Minimal Down - UGR < 19 / Office / Working - L 2397 - TP(a) - White

Technical description

Initial profile in extruded aluminium - Minimal (frameless) version for flush with ceiling installation; polycarbonate screen for controlled luminance emission UGR < 19 - 3000 cd/m2 (working lighting) in compliance with the TP(a) standard; screen set up for connecting different lengths by overlapping.

Installation

Installation can be recessed, surface, ceiling and pendant-mounted using suitable accessories to be ordered separately. The initial modules can be used individually for various applications if completed with accessory caps and the required LED module.

Colour

White (01)

Weight (Kg)

4.7

Mounting

ceiling recessed|ceiling surface|ceiling pendant

Wiring

Set up to house the LED modules required by the system.

Notes

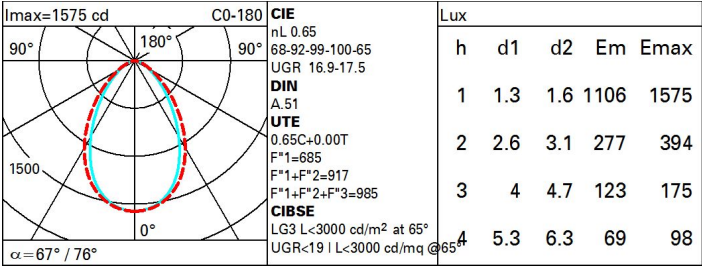
Take care with the system configuration. To make continuous lines of lighting, use the intermediate modules. To complete a continuous line correctly there must always be an initial module at the start or end of the composition.

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	2405	Lamp code:	LED
W system:	18	Number of lamps for optical assembly:	1
lm source:	3700	ZVEI Code:	LED
W source:	18	Number of optical assemblies:	1
Luminous efficiency (lm/W, real value):	133.6	Power factor:	See installation instructions
lm in emergency mode:	-	Inrush current:	18 A / 250 µs
Total light flux at or above an angle of 90° [Lm]:	0	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 21 luminaires B16A: 34 luminaires C10A: 35 luminaires C16A: 57 luminaires
Light Output Ratio (L.O.R.) [%]:	65	Minimum dimming %:	1
CRI (minimum):	80	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	4000	Control:	DALI-2
MacAdam Step:	3		

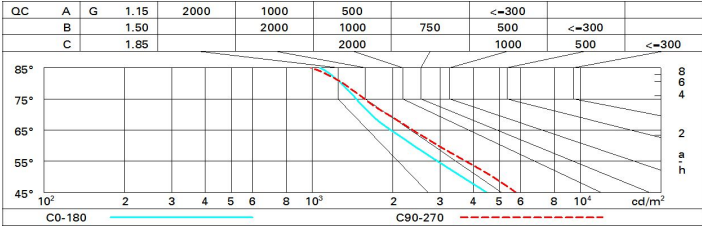
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	49	44	40	37	43	40	39	36	55
1.0	53	48	45	42	47	44	44	40	62
1.5	59	55	52	49	54	51	50	47	73
2.0	62	59	56	54	58	55	55	52	80
2.5	64	61	59	57	60	58	57	55	84
3.0	65	63	61	60	62	60	59	57	87
4.0	66	65	63	62	63	62	61	59	90
5.0	67	66	64	64	64	63	62	60	92

Luminance curve limit



UGR diagram

Corrected UGR values (at 3700 lm bare lamp luminous flux)												
Reflect.: ceiling/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	
		0.50	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	
		viewed crosswise					viewed endwise					
2H	2H	15.3	16.2	15.6	16.4	16.7	16.3	17.3	16.6	17.5	17.8	
	3H	15.8	16.7	16.1	16.9	17.2	16.5	17.4	16.8	17.6	17.9	
	4H	16.0	16.8	16.4	17.1	17.4	16.5	17.3	16.9	17.6	17.9	
	6H	16.2	16.9	16.5	17.2	17.6	16.5	17.2	16.9	17.5	17.9	
	8H	16.2	16.9	16.6	17.2	17.6	16.5	17.2	16.8	17.5	17.9	
	12H	16.2	16.9	16.6	17.2	17.6	16.4	17.1	16.8	17.4	17.8	
4H	2H	15.6	16.4	15.9	16.7	17.0	17.0	17.8	17.4	18.1	18.4	
	3H	16.3	17.0	16.7	17.3	17.7	17.3	18.0	17.7	18.4	18.7	
	4H	16.6	17.2	17.0	17.5	17.9	17.4	18.0	17.8	18.4	18.8	
	6H	16.8	17.3	17.2	17.7	18.1	17.5	18.0	17.9	18.4	18.8	
	8H	16.9	17.4	17.3	17.8	18.2	17.5	17.9	17.9	18.4	18.8	
	12H	16.9	17.4	17.4	17.8	18.2	17.4	17.9	17.9	18.3	18.8	
8H	4H	16.7	17.1	17.1	17.5	18.0	17.7	18.1	18.1	18.6	19.0	
	6H	17.0	17.4	17.5	17.8	18.3	17.8	18.2	18.3	18.6	19.1	
	8H	17.1	17.5	17.6	17.9	18.4	17.8	18.2	18.3	18.6	19.1	
	12H	17.2	17.5	17.7	18.0	18.5	17.9	18.2	18.4	18.6	19.2	
12H	4H	16.6	17.1	17.1	17.5	18.0	17.7	18.1	18.2	18.6	19.0	
	6H	17.0	17.3	17.5	17.8	18.3	17.8	18.2	18.3	18.6	19.1	
	8H	17.2	17.5	17.7	17.9	18.5	17.9	18.2	18.4	18.7	19.2	
Variations with the observer position at spacing:												
S =		1.0H	0.5 / -0.6		0.3 / -0.6							
		1.5H	0.7 / -1.4		1.0 / -1.4							
		2.0H	1.6 / -1.9		2.1 / -2.0							