

Last information update: April 2024

Product configuration: Q428+Q455.12

Q428: Minimal initial moduleDown Office / Working UGR < 19L 2397

Q455.12: Plate - Down Office / Working UGR < 19 - Warm LED - DALI - L 1196 - Aluminium

**Product code**

Q428: Minimal initial moduleDown Office / Working UGR < 19L 2397

Technical description

Initial profile in extruded aluminium - Minimal (frameless) version for flush with ceiling mounting; micro-prismatic screen for controlled luminance emission UGR < 19 - 3000 cd/m2 (working lighting); screen set up for connecting several 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)* | Aluminium (12)*

Weight (Kg)

5.9

* Colours on request

Mounting

ceiling recessed|wall surface|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

**Product code**

Q455.12: Plate - Down Office / Working UGR < 19 - Warm LED - DALI - L 1196 - Aluminium

Technical description

LED module set up for housing in initial or intermediate system profiles with screen for controlled luminance - down emission. DALI dimmable control gear integrated in the luminaire. Extruded aluminium heat sink; high emission yield flux enhancer. Warm LED.

Installation

Module insertion on profiles facilitated by a quick coupling system.

Colour

Indeterminate (00)

Weight (Kg)

1.37

Wiring

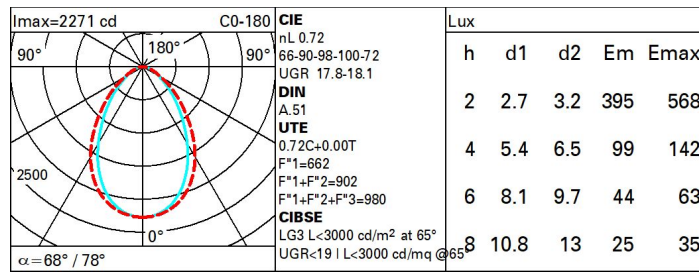
Quick coupling terminal block connection to simplify connections between the luminaires. LED module complete with integrated dimmable DALI control gear.

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	3636	Colour temperature [K]:	3000
W system:	31.1	MacAdam Step:	3
Im source:	5050	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	27	Voltage [Vin]:	230
Luminous efficiency (Im/W, real value):	116.9	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	72	Number of optical assemblies:	1
CRI (minimum):	80		

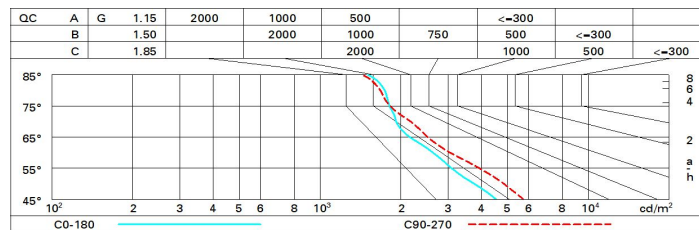
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	54	47	43	40	47	43	42	38	53
1.0	58	52	48	45	51	48	47	43	60
1.5	64	60	56	53	59	56	55	51	71
2.0	68	64	61	59	63	61	60	56	78
2.5	70	67	65	63	66	64	63	60	83
3.0	71	69	67	65	68	66	65	62	86
4.0	73	71	70	68	70	68	67	64	89
5.0	74	72	71	70	71	70	69	66	91

Luminance curve limit



UGR diagram

Corrected UGR values (at 5050 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	0.30
		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
		viewed crosswise					viewed endwise					
2H	2H	15.5	16.5	15.8	16.7	17.0	16.6	17.6	16.9	17.8	18.1	18.1
	3H	16.2	17.1	16.5	17.4	17.7	16.8	17.7	17.1	17.9	18.2	18.2
	4H	16.5	17.4	16.9	17.7	18.0	16.8	17.6	17.2	17.9	18.3	18.3
	6H	16.8	17.6	17.2	17.9	18.3	16.8	17.6	17.2	17.9	18.2	18.2
	8H	16.9	17.7	17.3	18.0	18.4	16.8	17.5	17.2	17.8	18.2	18.2
	12H	17.0	17.7	17.4	18.0	18.4	16.8	17.4	17.1	17.8	18.2	18.2
4H	2H	15.9	16.7	16.3	17.0	17.3	17.5	18.3	17.8	18.6	18.9	18.9
	3H	16.8	17.5	17.2	17.8	18.2	17.8	18.5	18.2	18.9	19.2	19.2
	4H	17.2	17.8	17.6	18.2	18.6	17.9	18.6	18.4	18.9	19.3	19.3
	6H	17.6	18.2	18.1	18.6	19.0	18.0	18.6	18.5	19.0	19.4	19.4
	8H	17.8	18.3	18.2	18.7	19.1	18.1	18.5	18.5	19.0	19.4	19.4
	12H	17.9	18.3	18.3	18.8	19.2	18.0	18.5	18.5	18.9	19.4	19.4
8H	4H	17.4	17.9	17.8	18.3	18.7	18.3	18.8	18.8	19.3	19.7	19.7
	6H	17.9	18.3	18.4	18.8	19.2	18.6	19.0	19.0	19.4	19.9	19.9
	8H	18.1	18.5	18.6	19.0	19.5	18.6	19.0	19.1	19.5	20.0	20.0
	12H	18.3	18.6	18.8	19.1	19.6	18.7	19.0	19.2	19.5	20.0	20.0
12H	4H	17.4	17.8	17.8	18.3	18.7	18.4	18.9	18.9	19.3	19.8	19.8
	6H	17.9	18.3	18.4	18.8	19.3	18.7	19.0	19.1	19.5	20.0	20.0
	8H	18.2	18.5	18.7	19.0	19.5	18.8	19.1	19.3	19.6	20.1	20.1
Variations with the observer position at spacing:												
S =		1.0H	0.4 / -0.5		0.3 / -0.4							
		1.5H	0.5 / -1.0		0.7 / -1.2							
		2.0H	1.1 / -1.4		1.6 / -1.6							