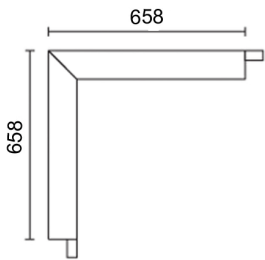


Last information update: May 2024

Product configuration: Q438

Q438: Frame Angular Module - Down Office / Working UGR < 19 - Warm LED

**Product code**Q438: Frame Angular Module - Down Office / Working UGR < 19 - Warm LED **Attention! Code no longer in production****Technical description**

Angular element for Frame version profiles with contact frame; including a Warm LED module. Microprismatic screen for controlled luminance emission UGR < 19 - 3000 cd/m² (working lighting); screen set up for connecting several lengths by overlapping. Integrated control gear. Pass-through wiring for continuous lines:

Installation

Recessed using the brackets on the profile.

Colour

White (01) | Aluminium (12)

Weight (Kg)

5.1

Mounting

ceiling recessed

Wiring

The angular profile is supplied with pass-through wiring for continuous lines. Quick coupling terminal blocks to simplify connections between the luminaires. LED module complete with integrated electronic control gear.

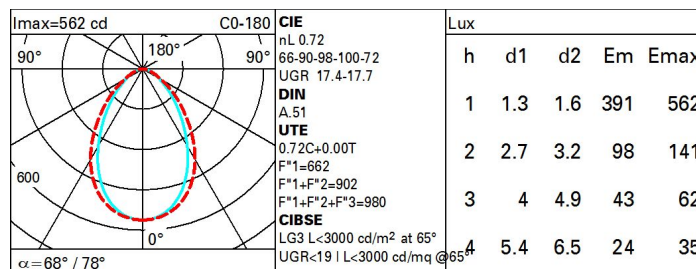
Notes

Take care when configuring the system; to complete a continuous line with an angular profile correctly, two initial modules are required, one for each side of the corner.

Complies with EN60598-1 and pertinent regulations

**Technical data**

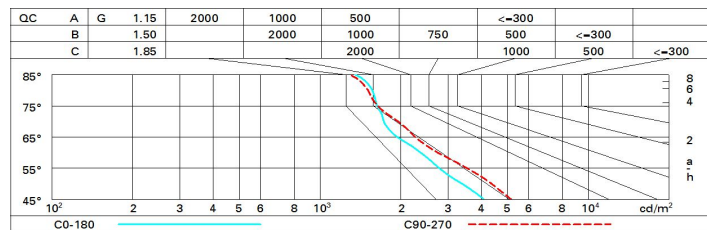
Im system:	1800	Colour temperature [K]:	3000
W system:	16	MacAdam Step:	3
Im source:	1250	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	6.8	Voltage [Vin]:	230
Luminous efficiency (Im/W, real value):	112.5	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total 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:	2
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 1250 lm bare lamp luminous flux)											
Reflect.: ceiling 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	15.1	16.1	15.4	16.3	16.6	16.2	17.2	16.5	17.4	17.7
	3H	15.8	16.7	16.2	17.0	17.3	16.4	17.3	16.8	17.6	17.9
	4H	16.2	17.0	16.5	17.3	17.6	16.5	17.3	16.8	17.6	17.9
	6H	16.5	17.2	16.8	17.6	17.9	16.4	17.2	16.8	17.5	17.9
	8H	16.6	17.3	17.0	17.6	18.0	16.4	17.1	16.8	17.5	17.8
12H	16.6	17.3	17.0	17.7	18.0	16.4	17.1	16.8	17.4	17.8	
4H	2H	15.5	16.4	15.9	16.7	17.0	17.1	17.9	17.4	18.2	18.5
	3H	16.4	17.1	16.8	17.5	17.8	17.5	18.1	17.8	18.5	18.9
	4H	16.8	17.5	17.3	17.8	18.2	17.6	18.2	18.0	18.6	19.0
	6H	17.3	17.8	17.7	18.2	18.6	17.7	18.2	18.1	18.6	19.0
	8H	17.4	17.9	17.8	18.3	18.8	17.7	18.2	18.1	18.6	19.0
12H	17.5	17.9	18.0	18.4	18.8	17.7	18.1	18.1	18.6	19.0	
8H	4H	17.0	17.5	17.4	17.9	18.4	18.0	18.5	18.4	18.9	19.3
	6H	17.5	18.0	18.0	18.4	18.9	18.2	18.6	18.7	19.0	19.5
	8H	17.8	18.1	18.3	18.6	19.1	18.3	18.6	18.8	19.1	19.6
	12H	17.9	18.2	18.4	18.7	19.3	18.3	18.6	18.8	19.1	19.7
12H	4H	17.0	17.5	17.5	17.9	18.3	18.0	18.5	18.5	18.9	19.4
	6H	17.6	17.9	18.1	18.4	18.9	18.3	18.6	18.8	19.1	19.6
	8H	17.8	18.2	18.4	18.6	19.2	18.4	18.7	18.9	19.2	19.7
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				