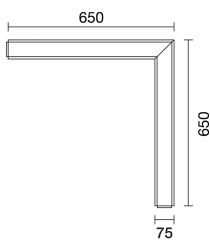


Last information update: April 2024

Product configuration: QB82

QB82: Angular LED module - Frame Down - ON-OFF - UGR < 19 / Office / Working - Warm

**Product code**QB82: Angular LED module - Frame Down - ON-OFF - UGR < 19 / Office / Working - Warm **Attention! Code no longer in production****Technical description**Angular element for Frame version profiles with contact frame; including a 3000K Warm LED module. Microprismatic PMMA screen for controlled luminance emission UGR < 19 - 3000 cd/m² (working lighting); screen set up for overlapping connections. Integrated control gear. Pass-through wiring for continuous lines:**Installation**

Recessed using the brackets on the profile.

Colour

White (01)

Weight (Kg)

4.17

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 ON-OFF non-dimmable 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 end of the corner.

Complies with EN60598-1 and pertinent regulations



IP20



pending

Technical data

lm system:	1235	CRI (minimum):	80
W system:	10.3	Colour temperature [K]:	3000
lm source:	870	MacAdam Step:	3
W source:	4.5	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	119.9	Lamp code:	LED
lm 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.) [%]:	71	Number of optical assemblies:	2

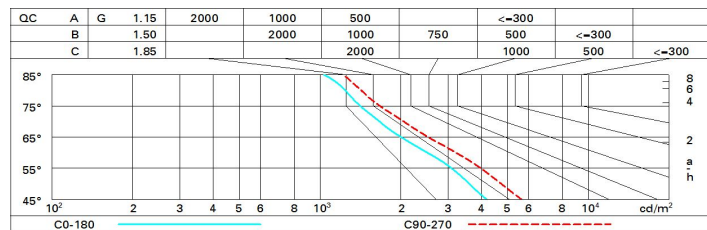
Polar

Imax=383 cd		C0-180		CIE		Lux	
90°	180°	90°	180°	nL 0.71	67-91-98-100-71	h	d1 d2 Em Emax
				UGR 17.1-17.9	DIN A.51	1	1.3 1.6 268 383
				UTE 0.71C+0.00T	F*1=667	2	2.7 3.2 67 96
				F*1+F*2=908	F*1+F*2+F*3=984	3	4 4.9 30 43
				CIBSE LG3 L<3000 cd/m ² at 65°	UGR<19 L<3000 cd/mq @65°	4	5.4 6.5 17 24
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 870 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	15.3	16.3	15.7	16.0	16.8	16.7	17.6	17.0	17.9	18.1
	3H	16.0	16.8	16.3	17.1	17.4	16.8	17.7	17.2	18.0	18.3
	4H	16.2	17.0	16.5	17.3	17.6	16.9	17.7	17.2	18.0	18.3
	6H	16.3	17.1	16.7	17.4	17.7	16.8	17.6	17.2	17.9	18.2
	8H	16.4	17.1	16.7	17.4	17.8	16.8	17.5	17.2	17.9	18.2
	12H	16.4	17.1	16.8	17.4	17.8	16.8	17.5	17.2	17.8	18.2
4H	2H	15.7	16.6	16.1	16.9	17.2	17.4	18.3	17.8	18.6	18.9
	3H	16.5	17.2	16.9	17.5	17.9	17.8	18.5	18.2	18.8	19.2
	4H	16.8	17.4	17.2	17.8	18.2	17.9	18.5	18.3	18.9	19.2
	6H	17.0	17.6	17.5	18.0	18.4	17.9	18.4	18.3	18.8	19.3
	8H	17.1	17.6	17.6	18.0	18.5	17.9	18.4	18.4	18.8	19.3
	12H	17.1	17.6	17.6	18.0	18.5	17.9	18.3	18.3	18.8	19.2
8H	4H	16.9	17.4	17.3	17.8	18.2	18.1	18.6	18.6	19.1	19.5
	6H	17.2	17.6	17.7	18.1	18.6	18.3	18.7	18.7	19.1	19.6
	8H	17.4	17.7	17.9	18.2	18.7	18.3	18.7	18.8	19.1	19.6
	12H	17.5	17.8	18.0	18.2	18.8	18.3	18.6	18.8	19.1	19.6
12H	4H	16.9	17.3	17.3	17.8	18.2	18.2	18.6	18.6	19.1	19.5
	6H	17.2	17.6	17.7	18.1	18.6	18.3	18.7	18.8	19.2	19.7
	8H	17.4	17.7	17.9	18.2	18.7	18.4	18.7	18.9	19.2	19.7
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				