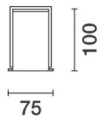


Last information update: January 2024

Product configuration: QB84

QB84: Angular LED module - Minimal Down - ON-OFF - UGR < 19 / Office / Working - Neutral

**Product code**QB84: Angular LED module - Minimal Down - ON-OFF - UGR < 19 / Office / Working - Neutral **Attention! Code no longer in production****Technical description**

Angular element for Minimal (frameless) flush with ceiling version profiles; including a Neutral 4000K LED module. Microprismatic 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

Installation can be recessed, surface, ceiling and pendant-mounted using suitable accessories to be ordered separately.

Colour

White (01) | Black (04) | Aluminium (12)

Weight (Kg)

4.17

Mounting

ceiling recessed|ceiling surface|ceiling pendant

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

Important: the Minimal angular module is only available for Down emission. 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

**Technical data**

lm system:	1306	Colour temperature [K]:	4000
W system:	10.3	MacAdam Step:	3
lm source:	920	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	4.5	Ballast losses [W]:	0.7
Luminous efficiency (lm/W, real value):	126.8	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
CRI (minimum):	80		

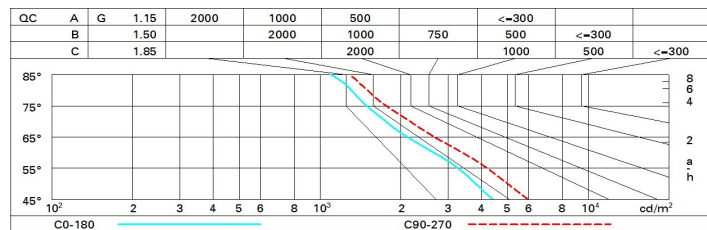
Polar

Imax=405 cd		C0-180		CIE		Lux	
90°	180°	90°	0°	nL 0.71	67-91-98-100-71	h	d1 d2 Em Emax
				UGR 17.3-18.1		1	1.3 1.6 284 405
				DIN A.51		2	2.7 3.2 71 101
				UTE 0.71C+0.00T		3	4 4.9 32 45
				F*1=667		4	5.4 6.5 18 25
				F*1+F*2=908			
				F*1+F*2+F*3=984			
				CIBSE LG3 L<3000 cd/m ² at 65°			
				UGR<19 L<3000 cd/mq @ 65°			
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 920 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	15.5	16.5	15.8	16.8	17.0	16.9	17.8	17.2	18.1	18.3
	3H	16.1	17.0	16.5	17.3	17.6	17.0	17.9	17.4	18.2	18.5
	4H	16.4	17.2	16.7	17.5	17.8	17.1	17.9	17.4	18.2	18.5
	6H	16.5	17.3	16.9	17.6	17.9	17.0	17.8	17.4	18.1	18.4
	8H	16.6	17.3	16.9	17.6	18.0	17.0	17.7	17.4	18.1	18.4
	12H	16.6	17.3	17.0	17.6	18.0	17.0	17.7	17.4	18.0	18.4
4H	2H	15.9	16.8	16.3	17.1	17.4	17.6	18.4	18.0	18.8	19.1
	3H	16.7	17.4	17.1	17.7	18.1	18.0	18.7	18.4	19.0	19.4
	4H	17.0	17.6	17.4	18.0	18.3	18.1	18.7	18.5	19.0	19.4
	6H	17.2	17.8	17.7	18.2	18.6	18.1	18.6	18.5	19.0	19.5
	8H	17.3	17.8	17.7	18.2	18.6	18.1	18.6	18.6	19.0	19.5
	12H	17.3	17.8	17.8	18.2	18.7	18.1	18.5	18.5	19.0	19.4
8H	4H	17.1	17.6	17.5	18.0	18.4	18.3	18.8	18.8	19.2	19.7
	6H	17.4	17.8	17.9	18.3	18.8	18.5	18.9	18.9	19.3	19.8
	8H	17.6	17.9	18.1	18.4	18.9	18.5	18.9	19.0	19.3	19.8
	12H	17.7	18.0	18.2	18.4	19.0	18.5	18.8	19.0	19.3	19.8
12H	4H	17.1	17.5	17.5	17.9	18.4	18.4	18.8	18.8	19.3	19.7
	6H	17.4	17.8	17.9	18.3	18.8	18.5	18.9	19.0	19.3	19.8
	8H	17.6	17.9	18.1	18.4	18.9	18.6	18.9	19.1	19.4	19.9
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				