iN60

Design iGuzzini **iGuzzini**

Last information update: November 2024

Product configuration: QB85
QB85: Angular LED module - Minimal Down - DALI - UGR < 19 / Office / Working - Neutral

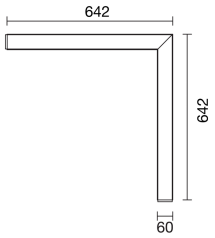
Product code
QB85: Angular LED module - Minimal Down - DALI - UGR < 19 / Office / Working - Neutral

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 DALI 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 dimmable digital DALI 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.
TPb rated. TPa version available on request, contact iGuzzini for more info

Complies with EN60598-1 and pertinent regulations

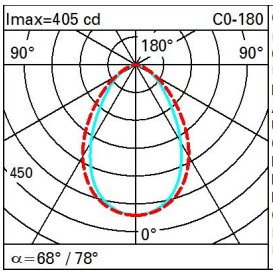
IP20

Technical data

lm system:	1306
W system:	11
lm source:	920
W source:	4.5
Luminous efficiency (lm/W, real value):	118.8
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	71
CRI (minimum):	80
Colour temperature [K]:	4000
MacAdam Step:	3

Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	2
Power factor:	See installation instructions
Inrush current:	18 A / 250 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 21 luminaires B16A: 34 luminaires C10A: 35 luminaires C16A: 57 luminaires
Minimum dimming %:	1
Overvoltage protection:	2kV Common mode & 1kV Differential mode
Control:	DALI-2

Polar



CIE
nL 0.71
67-91-98-100-71
UGR 17.3-18.1
DIN
A.51
UTE
0.71C+0.00T
F"1=667
F"1+F"2=908
F"1+F"2+F"3=984
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<19 | L<3000 cd/mq @65°

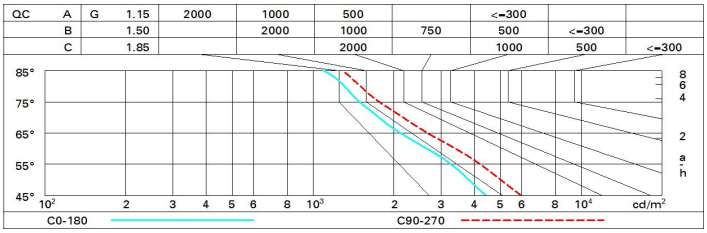
Lux

h	d1	d2	Em	Emax
1	1.3	1.6	284	405
2	2.7	3.2	71	101
3	4	4.9	32	45
4	5.4	6.5	18	25

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)

Riflect.: ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed crosswise					viewed endwise		
x	y										
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	0.3 / -0.5
	1.5H	0.6 / -1.3	0.8 / -1.2
	2.0H	1.2 / -1.9	1.8 / -1.8