iN60

Design iGuzzini **iGuzzini**

Last information update: May 2025

Product configuration: QB87
QB87: Angular LED module - Minimal Down - DALI - UGR < 19 / Office / Working - Warm

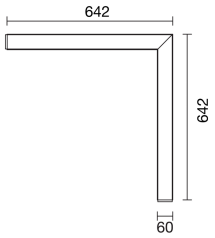
Product code
QB87: Angular LED module - Minimal Down - DALI - UGR < 19 / Office / Working - Warm **Attention! Code no longer in production**

Technical description
Angular element for Minimal (frameless) flush with ceiling version profiles; including a Warm 3000K 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

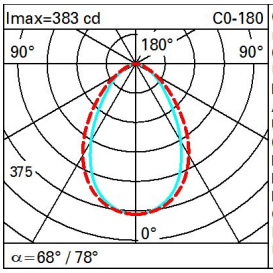
Complies with EN60598-1 and pertinent regulations

IP20

Technical data

lm system:	1235	Colour temperature [K]:	3000
W system:	11	MacAdam Step:	3
lm source:	870	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	4.5	Lamp code:	LED
Luminous efficiency (lm/W, real value):	112.3	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	2
Light Output Ratio (L.O.R.) [%]:	71	Control:	DALI-2
CRI (minimum):	80		

Polar



CIE
nL 0.71
67-91-98-100-71
UGR 17.1-17.9
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°

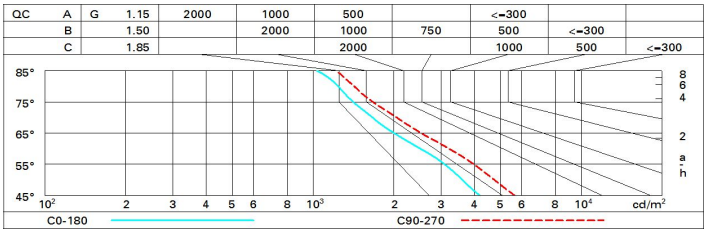
Lux

h	d1	d2	Em	Emax
1	1.3	1.6	268	383
2	2.7	3.2	67	96
3	4	4.9	30	43
4	5.4	6.5	17	24

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)

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	15.3	16.3	15.7	16.6	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	0.3 / -0.5
	1.5H	0.6 / -1.3	0.8 / -1.2
	2.0H	1.2 / -1.9	1.8 / -1.8