iN90

Design iGuzzini **iGuzzini**

Last information update: December 2024

Product configuration: Q441
Q441: Minimal Angular Module - Down Office / Working UGR < 19 - Neutral LED - DALI

Product code
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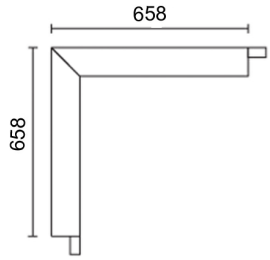
Technical description
Angular element for Minimal (frameless) flush with ceiling version profiles; including a Neutral LED module. Microprismatic screen for controlled luminance emission UGR < 19 - 3000 cd/m2 (working lighting); screen set up for connecting several lengths by overlapping. Built-in DALI dimmable 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) | Aluminium (12)

Weight (Kg)
5



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

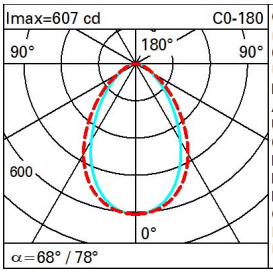
Complies with EN60598-1 and pertinent regulations

IP20

Technical data

lm system:	1944	Colour temperature [K]:	4000
W system:	15.6	MacAdam Step:	3
lm source:	1350	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	6.8	Voltage [Vin]:	230
Luminous efficiency (lm/W, real value):	124.6	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.) [%]:	72	Number of optical assemblies:	2
CRI (minimum):	80	Control:	DALI-2

Polar



CIE
nL 0.72
66-90-98-100-72
UGR 17.7-18.0
DIN
A.51
UTE
0.72C+0.00T
F"1=662
F"1+F"2=902
F"1+F"2+F"3=980
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<19 | L<3000 cd/mq @65°

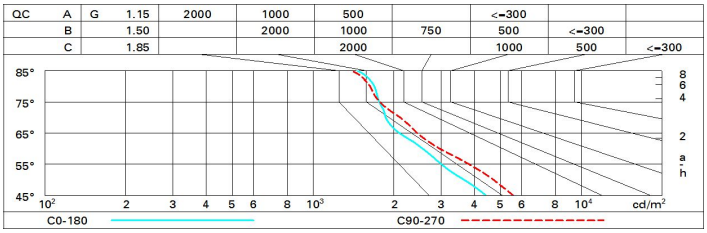
Lux

h	d1	d2	Em	Emax
1	1.3	1.6	422	607
2	2.7	3.2	105	152
3	4	4.9	47	67
4	5.4	6.5	26	38

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 1350 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	15.4	16.4	15.7	16.6	16.9	16.5	17.5	16.8	17.7	18.0
	3H	16.1	17.0	16.4	17.3	17.6	16.7	17.6	17.0	17.8	18.1
	4H	16.4	17.3	16.8	17.6	17.9	16.7	17.5	17.1	17.8	18.2
	6H	16.7	17.5	17.1	17.8	18.2	16.7	17.5	17.1	17.8	18.1
	8H	16.8	17.6	17.2	17.9	18.3	16.7	17.4	17.1	17.7	18.1
	12H	16.9	17.6	17.3	17.9	18.3	16.7	17.3	17.0	17.7	18.1
4H	2H	15.8	16.6	16.2	16.9	17.2	17.4	18.2	17.7	18.5	18.8
	3H	16.7	17.4	17.1	17.7	18.1	17.7	18.4	18.1	18.8	19.1
	4H	17.1	17.7	17.5	18.1	18.5	17.8	18.5	18.3	18.8	19.2
	6H	17.5	18.1	18.0	18.5	18.9	17.9	18.5	18.4	18.9	19.3
	8H	17.7	18.2	18.1	18.6	19.0	18.0	18.5	18.4	18.9	19.3
	12H	17.8	18.2	18.2	18.7	19.1	17.9	18.4	18.4	18.8	19.3
8H	4H	17.3	17.8	17.7	18.2	18.6	18.2	18.7	18.7	19.2	19.6
	6H	17.8	18.2	18.3	18.7	19.1	18.5	18.9	18.9	19.3	19.8
	8H	18.0	18.4	18.5	18.9	19.4	18.5	18.9	19.0	19.4	19.9
	12H	18.2	18.5	18.7	19.0	19.5	18.6	18.9	19.1	19.4	19.9
12H	4H	17.3	17.7	17.7	18.2	18.6	18.3	18.8	18.8	19.2	19.7
	6H	17.8	18.2	18.3	18.7	19.2	18.6	18.9	19.0	19.4	19.9
	8H	18.1	18.4	18.6	18.9	19.4	18.7	19.0	19.2	19.5	20.0

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