iN90

Design iGuzzini   **iGuzzini**

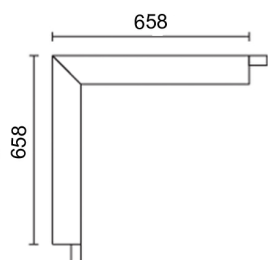Last information update: December 2024

Product configuration: Q443
Q443: Minimal Angular Module - Down Office / Working UGR < 19 - Warm LED - DALI

Product code
Q443: Minimal Angular Module - Down Office / Working UGR < 19 - Warm LED - DALI

Technical description
Angular element for Minimal (frameless) flush with ceiling version profiles; including a Warm 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	Weight (Kg)
White (01) | Aluminium (12)	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
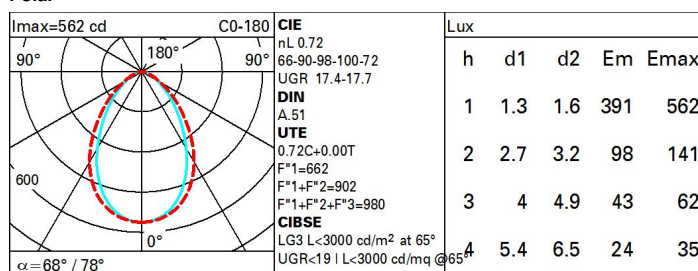
Complies with EN60598-1 and pertinent regulations

IP20   CE   UKCA   03   CCC S&E   S   EHL   QCERT   NOM   RAM   S

Technical data

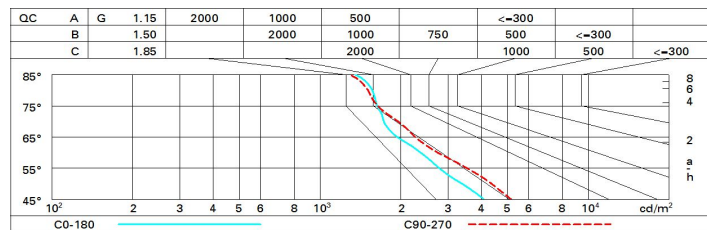|			
lm system:	1800	Colour temperature [K]:	3000
W system:	15.6	MacAdam Step:	3
lm source:	1250	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	6.8	Voltage [Vin]:	230
Luminous efficiency (lm/W, real value):	115.4	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	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

Imax=562 cd   C0-180

90°   180°   90°

α=68° / 78°

CIE
nL 0.72
66-90-98-100-72
UGR 17.4-17.7
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°

h	d1	d2	Em	Emax
1	1.3	1.6	391	562
2	2.7	3.2	98	141
3	4	4.9	43	62
4	5.4	6.5	24	35

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

QC	A	G	1.15	2000	1000	500		<=300	
	B		1.50		2000	1000	750	500	<=300
	C		1.85			2000		1000	500	<=300

C0-180 ——— C90-270 ------------

UGR diagram

Corrected UGR values (at 1250 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 x	y			viewed crosswise					viewed endwise		
2H	2H	15.1	16.1	15.4	16.3	16.6	16.2	17.2	16.5	17.4	17.7
	3H	15.8	16.7	16.2	17.0	17.3	16.4	17.3	16.8	17.6	17.9
	4H	16.2	17.0	16.5	17.3	17.6	16.5	17.3	16.8	17.6	17.9
	6H	16.5	17.2	16.8	17.6	17.9	16.4	17.2	16.8	17.5	17.9
	8H	16.6	17.3	17.0	17.6	18.0	16.4	17.1	16.8	17.5	17.8
	12H	16.6	17.3	17.0	17.7	18.0	16.4	17.1	16.8	17.4	17.8
4H	2H	15.5	16.4	15.9	16.7	17.0	17.1	17.9	17.4	18.2	18.5
	3H	16.4	17.1	16.8	17.5	17.8	17.5	18.1	17.8	18.5	18.9
	4H	16.8	17.5	17.3	17.8	18.2	17.6	18.2	18.0	18.6	19.0
	6H	17.3	17.8	17.7	18.2	18.6	17.7	18.2	18.1	18.6	19.0
	8H	17.4	17.9	17.8	18.3	18.8	17.7	18.2	18.1	18.6	19.0
	12H	17.5	17.9	18.0	18.4	18.8	17.7	18.1	18.1	18.6	19.0
8H	4H	17.0	17.5	17.4	17.9	18.4	18.0	18.5	18.4	18.9	19.3
	6H	17.5	18.0	18.0	18.4	18.9	18.2	18.6	18.7	19.0	19.5
	8H	17.8	18.1	18.3	18.6	19.1	18.3	18.6	18.8	19.1	19.6
	12H	17.9	18.2	18.4	18.7	19.3	18.3	18.6	18.8	19.1	19.7
12H	4H	17.0	17.5	17.5	17.9	18.3	18.0	18.5	18.5	18.9	19.4
	6H	17.6	17.9	18.1	18.4	18.9	18.3	18.6	18.8	19.1	19.6
	8H	17.8	18.2	18.4	18.6	19.2	18.4	18.7	18.9	19.2	19.7

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