iN90

Design iGuzzini   **iGuzzini**

Last information update: April 2024

Product configuration: Q433+Q459.12
Q433: Minimal initial moduleUp/Down Office / Working UGR < 19L 2397
Q459.12: Plate - Up Down Office / Working UGR < 19 - DALI - Warm LED - L 1196 - 23.3W 2546lm - 3000K - Aluminium

Product code
Q433: Minimal initial moduleUp/Down Office / Working UGR < 19L 2397

Technical description
Initial profile in extruded aluminium - Minimal (frameless) version for flush with ceiling mounting and up + down emission; micro-prismatic lower screen for controlled luminance emission UGR < 19 - 3000 cd/m2 (working lighting); screen set up for connecting several lengths by overlapping. Methacrylate diffusing screen for upper emission. Light flow split into approx. 70% down / 30% up.

Installation
Installation can be pendant-mounted using suitable accessories to be ordered separately. The initial modules can be used individually for various applications if completed with accessory caps and the required LED module.

Colour	Weight (Kg)
White (01)* | Aluminium (12)*	5.9

* Colours on request

Mounting
wall surface|ceiling pendant

Wiring
Set up to house the LED modules required by the system.

Notes
Take care with the system configuration. To make continuous lines of lighting, use the intermediate modules. To complete a continuous line correctly there must always be an initial module at the start or end of the composition.

Complies with EN60598-1 and pertinent regulations

IP20   NOM-S   pending

Product code
Q459.12: Plate - Up Down Office / Working UGR < 19 - DALI - Warm LED - L 1196 - 23.3W 2546lm - 3000K - Aluminium

Technical description
LED module set up for housing in initial or intermediate system profiles with screen for controlled luminance - up + down emission. DALI dimmable control gear integrated in the luminaire. Extruded aluminium heat sink; high emission yield flux enhancer. Warm LED.

Installation
Module insertion on profiles facilitated by a quick coupling system.

Colour	Weight (Kg)
Indeterminate (00)	1.4

Wiring
Quick coupling terminal block connection to simplify connections between the luminaires. LED module complete with integrated dimmable DALI control gear.
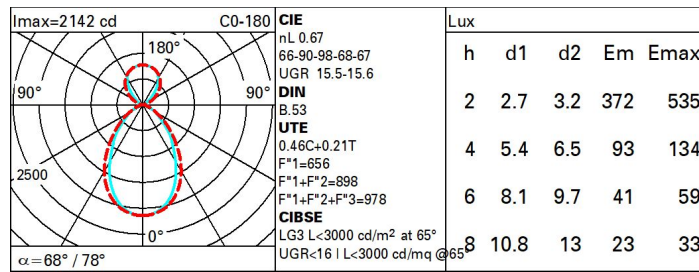
Complies with EN60598-1 and pertinent regulations

IP20   CE   UKCA   03   CCC S&E   NOM-S   EAC

Technical data

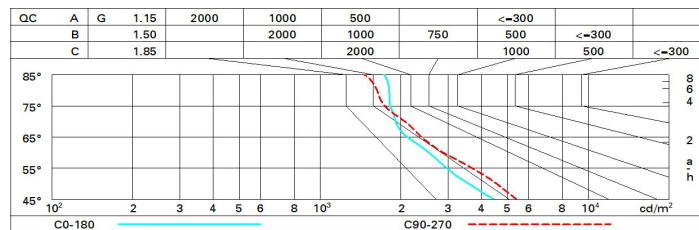|			
lm system:	5092	Colour temperature [K]:	3000
W system:	46.5	MacAdam Step:	3
lm source:	7600	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	41	Voltage [Vin]:	230
Luminous efficiency (lm/W, real value):	109.5	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	1615	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	67	Number of optical assemblies:	1
CRI (minimum):	80		

Polar

Imax=2142 cd	C0-180

α=68° / 78°

CIE
nL 0.67
66-90-98-68-67
UGR 15.5-15.6
DIN
B.53
UTE
0.46C+0.21T
F"1=656
F"1+F"2=898
F"1+F"2+F"3=978
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<16 I L<3000 cd/mq @65°

Lux				
h	d1	d2	Em	Emax
2	2.7	3.2	372	535
4	5.4	6.5	93	134
6	8.1	9.7	41	59
8	10.8	13	23	33

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	43	38	34	31	35	31	29	24	53
1.0	47	42	38	35	39	35	33	27	60
1.5	53	48	45	42	44	42	39	32	71
2.0	56	52	50	47	48	46	42	36	78
2.5	58	55	53	51	50	48	45	38	82
3.0	59	57	55	53	52	50	46	39	86
4.0	61	59	57	56	54	52	48	41	89
5.0	62	60	59	57	55	54	49	42	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 7600 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	13.3	14.0	14.0	14.7	15.6	14.3	15.1	15.1	15.8	16.6
	3H	14.0	14.6	14.7	15.4	16.3	14.5	15.1	15.2	15.9	16.7
	4H	14.3	14.9	15.1	15.7	16.6	14.5	15.1	15.3	15.8	16.7
	6H	14.6	15.2	15.4	15.9	16.9	14.4	15.2	15.2	15.7	16.7
	8H	14.7	15.2	15.5	16.0	17.0	14.4	14.9	15.2	15.7	16.6
	12H	14.8	15.3	15.6	16.1	17.0	14.4	14.8	15.2	15.6	16.6
4H	2H	13.6	14.2	14.4	15.0	15.9	15.1	15.7	15.9	16.5	17.4
	3H	14.5	15.0	15.3	15.8	16.7	15.5	15.9	16.3	16.7	17.7
	4H	14.9	15.3	15.7	16.1	17.1	15.6	16.0	16.4	16.8	17.8
	6H	15.3	15.7	16.2	16.5	17.5	15.6	16.0	16.5	16.8	17.8
	8H	15.5	15.8	16.3	16.7	17.7	15.6	16.0	16.5	16.8	17.8
	12H	15.6	15.9	16.5	16.8	17.8	15.6	15.9	16.5	16.8	17.8
8H	4H	15.0	15.4	15.9	16.2	17.2	15.9	16.3	16.8	17.1	18.1
	6H	15.6	15.9	16.5	16.7	17.8	16.1	16.4	17.0	17.3	18.3
	8H	15.8	16.1	16.7	16.9	18.0	16.2	16.4	17.1	17.3	18.4
	12H	16.0	16.2	16.9	17.1	18.2	16.2	16.5	17.1	17.3	18.4
12H	4H	15.0	15.3	15.9	16.2	17.2	16.0	16.3	16.8	17.1	18.2
	6H	15.6	15.8	16.5	16.7	17.8	16.2	16.4	17.1	17.3	18.4
	8H	15.9	16.1	16.8	17.0	18.1	16.3	16.5	17.2	17.4	18.5

Variations with the observer position at spacing:

S =			
1.0H	0.3 / -0.5	0.3 / -0.4
1.5H	0.5 / -0.9	0.6 / -1.1
2.0H	1.2 / -1.3	1.5 / -1.5