iN90

Design iGuzzini **iGuzzini**

Last information update: April 2024

Product configuration: Q427+Q455.12
Q427: Minimal initial moduleDown Office / Working UGR < 19L1208
Q455.12: Plate - Down Office / Working UGR < 19 - Warm LED - DALI - L 1196 - Aluminium

Product code
Q427: Minimal initial moduleDown Office / Working UGR < 19L1208

Technical description
Initial profile in extruded aluminium - Minimal (frameless) version for flush with ceiling mounting; micro-prismatic screen for controlled luminance emission UGR < 19 - 3000 cd/m2 (working lighting); screen set up for connecting several lengths by overlapping.

Installation
Installation can be recessed, surface, ceiling and 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)*	3.1

* Colours on request

Mounting
ceiling recessed|wall surface|ceiling 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 pending

Product code
Q455.12: Plate - Down Office / Working UGR < 19 - Warm LED - DALI - L 1196 - Aluminium

Technical description
LED module set up for housing in initial or intermediate system profiles with screen for controlled luminance - 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)	1.37

Wiring
Quick coupling terminal block connection to simplify connections between the luminaires. LED module complete with integrated dimmable DALI control gear.

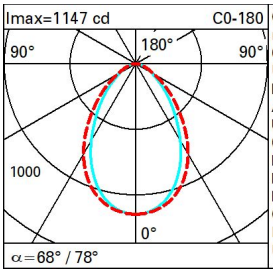
Complies with EN60598-1 and pertinent regulations

IP20 S&E

Technical data

lm system:	1836	Colour temperature [K]:	3000
W system:	15.6	MacAdam Step:	3
lm source:	2550	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	14	Voltage [Vin]:	230
Luminous efficiency (lm/W, real value):	117.7	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:	1
CRI (minimum):	80		

Polar



CIE
nL 0.72
66-90-98-100-72
UGR 17.8-18.1
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 I L<3000 cd/mq @65°

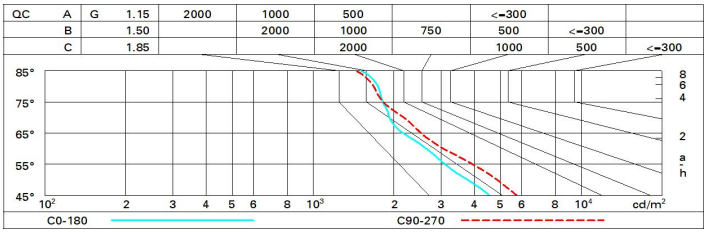
Lux

h	d1	d2	Em	Emax
1	1.3	1.6	797	1147
2	2.7	3.2	199	287
3	4	4.9	89	127
4	5.4	6.5	50	72

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 2550 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					viewed		
x	y			crosswise					endwise		
2H	2H	15.5	16.5	15.8	16.7	17.0	16.6	17.6	16.9	17.8	18.1
	3H	16.2	17.1	16.6	17.4	17.7	16.8	17.7	17.1	18.0	18.2
	4H	16.6	17.4	16.9	17.7	18.0	16.8	17.7	17.2	18.0	18.3
	6H	16.8	17.6	17.2	17.9	18.3	16.8	17.6	17.2	17.9	18.2
	8H	16.9	17.7	17.3	18.0	18.4	16.8	17.5	17.2	17.9	18.2
	12H	17.0	17.7	17.4	18.1	18.4	16.8	17.5	17.1	17.8	18.2
4H	2H	15.9	16.7	16.3	17.0	17.3	17.5	18.3	17.8	18.6	18.9
	3H	16.8	17.5	17.2	17.8	18.2	17.8	18.5	18.2	18.9	19.2
	4H	17.2	17.8	17.6	18.2	18.6	18.0	18.6	18.4	18.9	19.3
	6H	17.6	18.2	18.1	18.6	19.0	18.0	18.6	18.5	19.0	19.4
	8H	17.8	18.3	18.2	18.7	19.1	18.1	18.6	18.5	19.0	19.4
	12H	17.9	18.3	18.3	18.8	19.2	18.1	18.5	18.5	18.9	19.4
8H	4H	17.4	17.9	17.8	18.3	18.7	18.4	18.9	18.8	19.3	19.7
	6H	17.9	18.3	18.4	18.8	19.3	18.6	19.0	19.0	19.4	19.9
	8H	18.1	18.5	18.6	19.0	19.5	18.6	19.0	19.1	19.5	20.0
	12H	18.3	18.6	18.8	19.1	19.6	18.7	19.0	19.2	19.5	20.0
12H	4H	17.4	17.8	17.8	18.3	18.7	18.4	18.9	18.9	19.3	19.8
	6H	18.0	18.3	18.4	18.8	19.3	18.7	19.0	19.1	19.5	20.0
	8H	18.2	18.5	18.7	19.0	19.5	18.8	19.1	19.3	19.6	20.1

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