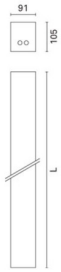
iN90

Design iGuzzini **iGuzzini**

Last information update: May 2025

Product configuration: Q432+Q459.12
Q432: Minimal initial moduleUp/Down Office / Working UGR < 19L 1208
Q459.12: Plate - Up Down Office / Working UGR < 19 - DALI - Warm LED - L 1196 - 23.3W 2546lm - 3000K - Aluminium



Product code
Q432: Minimal initial moduleUp/Down Office / Working UGR < 19L 1208 **Attention! Code no longer in production**

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
White (01)* | Aluminium (12)*

Weight (Kg)
3.1

* 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

Product code
Q459.12: Plate - Up Down Office / Working UGR < 19 - DALI - Warm LED - L 1196 - 23.3W 2546lm - 3000K - Aluminium **Attention! Code no longer in production**

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
Indeterminate (00) | White (01)

Weight (Kg)
1.4

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

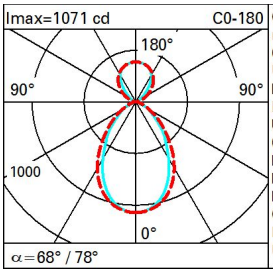
Complies with EN60598-1 and pertinent regulations

IP20

Technical data

lm system:	2546	Colour temperature [K]:	3000
W system:	23.3	MacAdam Step:	3
lm source:	3800	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	21	Voltage [Vin]:	230
Luminous efficiency (lm/W, real value):	109.3	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]:	808	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	67	Number of optical assemblies:	1
CRI (minimum):	80		

Polar



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°

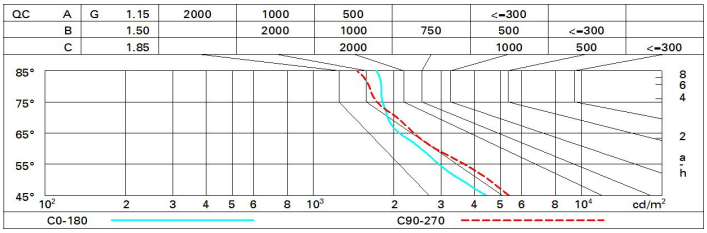
Lux

h	d1	d2	Em	Emax
1	1.3	1.6	744	1071
2	2.7	3.2	186	268
3	4	4.9	83	119
4	5.4	6.5	47	67

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



UGR diagram

Corrected UGR values (at 3800 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	13.3	14.0	14.0	14.7	15.6	14.3	15.0	15.0	15.7	16.6
	3H	14.0	14.6	14.7	15.3	16.2	14.5	15.1	15.2	15.8	16.7
	4H	14.3	14.9	15.1	15.6	16.6	14.5	15.1	15.2	15.8	16.7
	6H	14.6	15.1	15.4	15.9	16.8	14.4	14.9	15.2	15.7	16.7
	8H	14.7	15.2	15.5	16.0	16.9	14.4	14.9	15.2	15.7	16.6
	12H	14.8	15.3	15.6	16.1	17.0	14.3	14.8	15.1	15.6	16.6
4H	2H	13.6	14.2	14.4	14.9	15.9	15.1	15.7	15.9	16.5	17.4
	3H	14.4	14.9	15.2	15.7	16.7	15.4	15.9	16.2	16.7	17.7
	4H	14.9	15.3	15.7	16.1	17.1	15.5	16.0	16.3	16.8	17.8
	6H	15.3	15.7	16.1	16.5	17.5	15.6	16.0	16.4	16.8	17.8
	8H	15.5	15.8	16.3	16.6	17.7	15.6	15.9	16.4	16.8	17.8
	12H	15.6	15.9	16.4	16.7	17.8	15.6	15.9	16.4	16.7	17.8
8H	4H	15.0	15.3	15.8	16.2	17.2	15.9	16.2	16.7	17.1	18.1
	6H	15.6	15.8	16.4	16.7	17.8	16.1	16.4	17.0	17.2	18.3
	8H	15.8	16.0	16.7	16.9	18.0	16.2	16.4	17.0	17.3	18.4
	12H	16.0	16.2	16.9	17.1	18.2	16.2	16.4	17.1	17.3	18.4
12H	4H	15.0	15.3	15.8	16.1	17.2	15.9	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