Design iGuzzini

Last information update: May 2024

### Product configuration: N964+N978.01

N964: Initial profile L 2397

N978.01: LED module - L 1196 - dark-light emission - warm white - integrated DALI dimmable control gear - 53W 7000lm - 3000K -

White



60

## **Product code**

N964: Initial profile L 2397 Attention! Code no longer in production

iGuzzini

## **Technical description**

Minimal (frameless) version extruded aluminium initial profile for up-down emission; a double length version designed to house 2 x up-down emission LED plates. Complete with superpure aluminium lamellar optic screen with an anodised mirror finish. Controlled luminance down emission L  $\leq$  1500 cd/mq2-  $\alpha$  > 65°. PMMA diffusing screens for upper emission.

#### 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 end caps and the required LED module.

### Colour

Aluminium (12)

# Mounting

ceiling pendant

## Wiring

Set up to house the up-down 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



### Product code

N978.01: LED module - L 1196 - dark-light emission - warm white - integrated DALI dimmable control gear - 53W 7000lm - 3000K - White Attention! Code no longer in production

## **Technical description**

LED module set up for housing in iN60 Dark Light up-down emission system initial or intermediate profiles. Extruded aluminium heat sink linear element. Combined with the lamellar optic screen housed in the system profiles, the luminaire generates a down emission (85%) with controlled luminance L  $\leq$  1500 cd/m2 –  $\alpha$  > 65°, for use in environments with video monitors in compliance with EN 12464-1. Diffused up emission (15%). Supplied with integrated dimmable DALI control gear. Warm white LED.

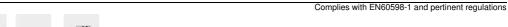
## Installation

Module insertion on profiles with a mechanical easy-push system (steel snap-on spring).

Colour	Weight (Kg)
White (01)	1.75

# Wiring

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





**IP20** 

Im system: 8819 CRI: 80 120.2 W system: Colour temperature [K]: 3000 14000 Im source: MacAdam Step: W source: 106 Life Time LED 1: 50.000h - L80 - B10 (Ta 25°C) Luminous efficiency (lm/W, 73.4 Lamp code: real value): Number of lamps for optical Im in emergency mode: assembly: Total light flux at or above 1300 ZVEI Code: LED an angle of 90° [Lm]: Number of optical Light Output Ratio (L.O.R.) 63 assemblies: [%]:

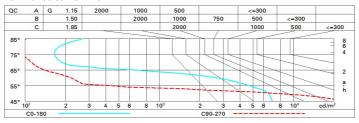
# Polar

Imax=6014 cd	C0-180 γ=18°		Lux				
90°	180°	nL 0.63 83-99-100-85-63 UGR 14.7-17.6	h	d1	d2	Em	Emax
	W.T.	DIN B.63	2	2.4	4	886	1310
X X	-X X X	UTE 0.54B+0.09T F"1=831	4	4.8	8	222	327
6000		F"1+F"2=995 F"1+F"2+F"3=999	6	7.2	12	98	146
α=62°/90°	0°	LG3 L<1500 cd/m² at 65° UGR<19   L<1500 cd/mq @	9 <sub>65</sub> 8	9.6	16	55	82

# **Utilisation factors**

R	77	75	73	71	55	53	33	00	DRR
K0.8	48	44	41	39	42	40	39	35	66
1.0	52	48	45	43	46	44	42	39	72
1.5	56	53	51	49	51	49	47	44	81
2.0	59	56	55	53	54	53	51	47	87
2.5	60	58	57	56	56	55	53	49	91
3.0	61	60	58	57	57	56	54	50	93
4.0	62	61	60	59	58	57	55	51	95
5.0	63	62	61	60	59	58	56	52	96

# Luminance curve limit



# UGR diagram

Rifled	ct.:										
ceil/cav walls work pl. Room dim		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50 0.20	0.30	0.50	0.30	0.30
										0.20	0.20
		viewed						viewed			
x	У	crosswise				endwise					
2H	2H	15.4	16.0	15.9	16.5	17.0	18.3	19.0	18.8	19.4	19.9
	ЗН	15.2	15.8	15.8	16.3	16.8	18.2	18.7	18.7	19.2	19.8
	4H	15.1	15.6	15.7	16.1	16.7	18.1	18.6	18.7	19.1	19.7
	бН	15.0	15.5	15.6	16.0	16.6	18.0	18.5	18.6	19.0	19.6
	8H	15.0	15.4	15.6	16.0	16.6	18.0	18.4	18.5	19.0	19.6
	12H	14.9	15.4	15.5	15.9	16.6	17.9	18.3	18.5	18.9	19.5
4H	2H	15.1	15.6	15.7	16.2	16.8	18.1	18.6	18.6	19.1	19.7
	ЗН	15.0	15.4	15.6	16.0	16.6	17.9	18.3	18.5	18.9	19.5
	4H	14.9	15.2	15.5	15.8	16.5	17.8	18.2	18.4	18.8	19.
	бН	14.7	15.1	15.4	15.7	16.4	17.7	18.0	18.3	18.6	19.3
	HS	14.7	15.0	15.3	15.6	16.3	17.6	17.9	18.3	18.6	19.3
	12H	14.6	14.9	15.3	15.6	16.3	17.6	17.8	18.3	18.5	19.2
вн	4H	14.7	15.0	15.3	15.6	16.3	17.6	17.9	18.3	18.6	19.3
	6H	14.6	14.8	15.3	15.5	16.2	17.5	17.8	18.2	18.4	19.2
	HS	14.5	14.7	15.2	15.4	16.2	17.5	17.7	18.2	18.4	19.1
	12H	14.5	14.6	15.2	15.3	16.1	17.4	17.6	18.1	18.3	19.1
2H	4H	14.6	14.9	15.3	15.5	16.3	17.6	17.8	18.3	18.5	19.2
	6H	14.5	14.7	15.2	15.4	16.2	17.5	17.7	18.2	18.4	19.1
	HS	14.5	14.6	15.2	15.3	16.1	17.4	17.6	18.1	18.3	19.1
Varia	itions wi	th the ob	oserverp	osition	at spacin	ıg:					
5 =	1.0H			.1 / -3.		2.7 / -20.8					
	1.5H	3.9 / -9.5					4.6 / -24.4				