Design iGuzzini

Last information update: May 2024

Product configuration: N965+N978.01

N965: Initial profile L 3594

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

White



60

Product code

N965: Initial profile L 3594 Attention! Code no longer in production

iGuzzini

Technical description

Minimal (frameless) version extruded aluminium initial profile for up-down emission; a triple length version designed to house 3 x up-down emission LED plates. Complete with superpure aluminium lamellar optic screen with an anodised mirror finish. Controlled luminance down emission $L \le 1500$ cd/mq2- $\alpha > 65^{\circ}$. 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 – α > 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.

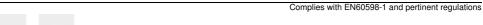
Installation

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



Technical data					
Im system:	13228	CRI:	80		
W system:	180.3	Colour temperature [K]:	3000		
Im source:	21000	MacAdam Step:	3		
W source:	159	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)		
Luminous efficiency (lm/W,	73.4	Lamp code:	LED		
real value):		Number of lamps for optical	1		
Im in emergency mode:	-	assembly:			
Total light flux at or above	1950	ZVEI Code:	LED		
an angle of 90° [Lm]:		Number of optical	1		
Light Output Ratio (L.O.R.) [%]:	63	assemblies:			

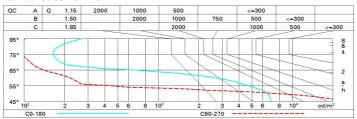
Polar

Imax=9021 cd	C0-180 γ=18°		Lux				
90°	180° \ 90°	nL 0.63 83-99-100-85-63 UGR 14.7-17.6	h	d1	d2	Em	Emax
		DIN B.63 UTE	2	2.4	4	1329	1965
9000	* ///	0.54B+0.09T F"1=831	4	4.8	8	332	491
		F"1+F"2=995 F"1+F"2+F"3=999 CIBSE	6	7.2	12	148	218
α=62°/90°	0°	LG3 L<1500 cd/m² at 65° UGR<19 L<1500 cd/mq @	9 ₆₅ 8	9.6	16	83	123

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	0.30	0.50	0.30	0.30
			0.20	0.20					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	14.8	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	18.2	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
12H	4H	14.6	14.9	15.3	15.5	16.3	17.6	17.8	18.2	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	tions wi	th the ob	server p	noitieo	at spacin	g:					
5 =	1.0H	3.1 / -3.6					2.7 / -20.6				
	1.5H	3.9 / -9.5					4.6 / -24.4				