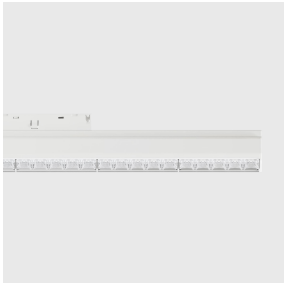
Superrail DALI Powerline system

Design iGuzzini **iGuzzini**

Last information update: December 2025

Product configuration: PG51.G0
PG51.G0: Module for Superrail 48V track - BLE Casambi - UGR<19 - L=1828 - - 13.4W 1819lm - 3500K - CRI 90 - White/White Transparent



Product code
PG51.G0: Module for Superrail 48V track - BLE Casambi - UGR<19 - L=1828 - - 13.4W 1819lm - 3500K - CRI 90 - White/White Transparent

Technical description
Linear lighting product with 3500K CRI90 monochrome LED complete with adapter for installation on a Superrail 48V track. UGR<19 luminaire with controlled luminance (L≤3000cd/m²) ideal for environments with video screen use. Opti-Diamond Space optic available in a White Cover (Transparent white) or Black Cover (Transparent black) version. Frameless version main body made of extruded aluminium. A rapid tool-free system for connecting the adapter electrically and mechanically to the track. The adapter made of a thermoplastic material includes the DC/DC driver circuit and Bluetooth protocol. Integrated «Bluetooth Casambi» technology allows each light module inserted on the track to be adjusted independently. Bluetooth Low Energy (Casambi) technology. Frequency 2.4 GHz BLE. The luminaire can be controlled with the Casambi App that enables on-off, dimming and scene recall functions. The app is available on the Apple Store and Google Play Store. It can be integrated in the system's "Mesh" network that allows multiple luminaires to be controlled. OTA (over the air) update via app. Integrated Beacon that can be activated via Smart Light Control (iBeacon) that enables functions including push notification and indoor navigation-wayfinding.

Installation
An adapter is used to fix the device mechanically and tool-free to the 48V track. Max luminaire-luminaire distance (*): 8 m; max smartphone-luminaire distance (*): 20 m.

Colour	Weight (Kg)
White/White Transparent (G0)	1.03

Mounting
Low voltage track

Wiring
Direct connection on 48V track. Track power supply unit to be ordered separately. Luminaire that can be controlled with Bluetooth technology (Casambi).

Notes
(*) The maximum distance for Bluetooth installations is affected by physical obstacles, like walls, metal panels and the layout of the system. We suggest that a test is conducted at the installation site. Technical and anti-glare accessories available; with option of the combined installation of two internal accessories.

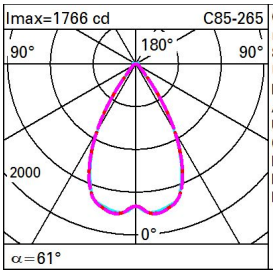
Complies with EN60598-1 and pertinent regulations

IP20

Technical data

lm system:	1819	Colour temperature [K]:	3500
W system:	13.4	MacAdam Step:	3
lm source:	2140	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	12	Voltage [Vin]:	48
Luminous efficiency (lm/W, real value):	135.7	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]:	35	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	85	Number of optical assemblies:	1
CRI (minimum):	90	LED current [mA]:	36
Rf (Colour Fidelity Index):	89	Power factor:	See installation instructions
Rg (Gamut Index):	95	Minimum dimming %:	1

Polar



CIE
nL 0.85
89-96-99-98-85
UGR 15.9-15.1
DIN
A.61
UTE
0.83A+0.02T
F"1=893
F"1+F"2=964
F"1+F"2+F"3=989

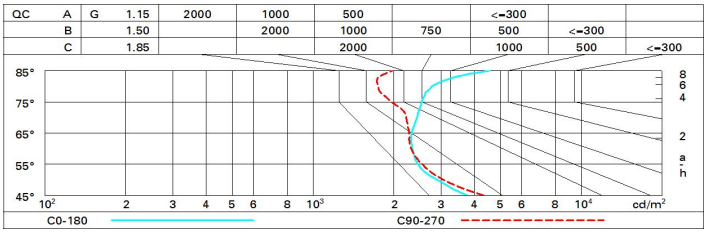
Lux

h	d1	d2	Em	Emax
2	2.3	2.3	342	432
4	4.7	4.6	85	108
6	7	6.9	38	48
8	9.3	9.2	21	27

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	67	63	61	66	63	62	59	70
1.0	76	71	68	65	70	67	67	63	76
1.5	81	77	74	72	76	73	72	69	83
2.0	84	81	79	77	80	78	77	73	88
2.5	86	84	82	80	82	80	79	76	91
3.0	87	85	84	83	84	82	81	78	94
4.0	88	87	86	85	85	84	83	80	96
5.0	89	88	87	87	86	85	84	81	97

Luminance curve limit



UGR diagram

Corrected UGR values (at 2140 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 crosswise					viewed endwise		
x	y										
2H	2H	14.1	14.7	14.4	15.0	15.3	14.4	15.0	14.7	15.3	15.6
	3H	14.5	15.1	14.9	15.4	15.7	14.4	14.9	14.7	15.2	15.6
	4H	14.8	15.4	15.2	15.7	16.0	14.3	14.9	14.7	15.2	15.5
	6H	15.1	15.7	15.5	16.0	16.4	14.3	14.8	14.7	15.1	15.5
	8H	15.3	15.8	15.7	16.2	16.6	14.3	14.8	14.7	15.1	15.5
	12H	15.6	16.1	16.0	16.4	16.8	14.2	14.7	14.6	15.1	15.5
4H	2H	14.1	14.6	14.4	14.9	15.3	14.8	15.4	15.2	15.7	16.1
	3H	14.7	15.1	15.1	15.5	15.9	15.0	15.4	15.4	15.8	16.2
	4H	15.1	15.5	15.5	15.9	16.3	15.0	15.5	15.5	15.9	16.3
	6H	15.6	15.9	16.0	16.4	16.8	15.1	15.5	15.6	15.9	16.4
	8H	15.9	16.2	16.4	16.7	17.1	15.1	15.5	15.6	15.9	16.4
	12H	16.3	16.6	16.8	17.0	17.5	15.1	15.4	15.6	15.9	16.4
8H	4H	15.2	15.5	15.6	16.0	16.4	15.3	15.7	15.8	16.1	16.6
	6H	15.8	16.1	16.3	16.6	17.1	15.5	15.8	16.0	16.3	16.8
	8H	16.2	16.5	16.8	17.0	17.5	15.6	15.8	16.1	16.3	16.9
	12H	16.8	17.0	17.4	17.6	18.1	15.7	15.9	16.3	16.4	17.0
12H	4H	15.2	15.5	15.6	15.9	16.4	15.4	15.7	15.9	16.2	16.7
	6H	15.9	16.1	16.4	16.6	17.1	15.6	15.9	16.2	16.4	16.9
	8H	16.3	16.6	16.9	17.1	17.6	15.8	16.0	16.3	16.5	17.1

Variations with the observer position at spacing:

S =			
	1.0H	1.8 / -1.1	2.3 / -1.7
	1.5H	3.5 / -1.3	4.4 / -2.0
	2.0H	5.1 / -1.4	6.1 / -2.1