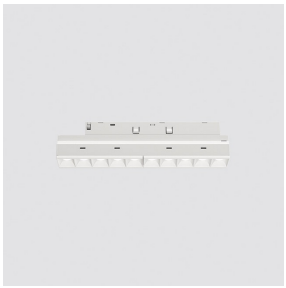
Superrail

Design iGuzzini **iGuzzini**

Last information update: June 2025

Product configuration: QZ28.01
QZ28.01: Linear module LB XS for 48V Superrail track - GL Pro 10 cells - 21.9W 1552.5lm - 4000K - CRI 90 - White

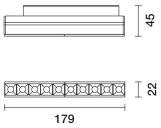


Product code
QZ28.01: Linear module LB XS for 48V Superrail track - GL Pro 10 cells - 21.9W 1552.5lm - 4000K - CRI 90 - White

Technical description
Fixed linear module with 10 optic elements complete with adapter for installation on a Superrail LV track. The adapter made of a thermoplastic material includes the DC/DC driver circuit with a DALI dimmable function. Integrated «power line» technology allows each light module on the track to be adjusted separately. Fixed optics with metallised thermoplastic high definition Opti-Beam reflectors. Despite the ultracompact size of the product, the patented technology of the optic system guarantees an efficient luminous flux optimised by a special diffuser screen that reduces direct glare significantly. Main body made of extruded aluminium. A rapid tool-free system for connecting the adapter electrically and mechanically to the track.

Installation
Mechanical fastening with adapter on track.

Colour	**Weight (Kg)**
White (01)	0.14



Mounting
Low voltage track

Wiring
Integrated DC/DC LED driver in adapter - direct connection on 48V track. Track power supply unit to be ordered separately.

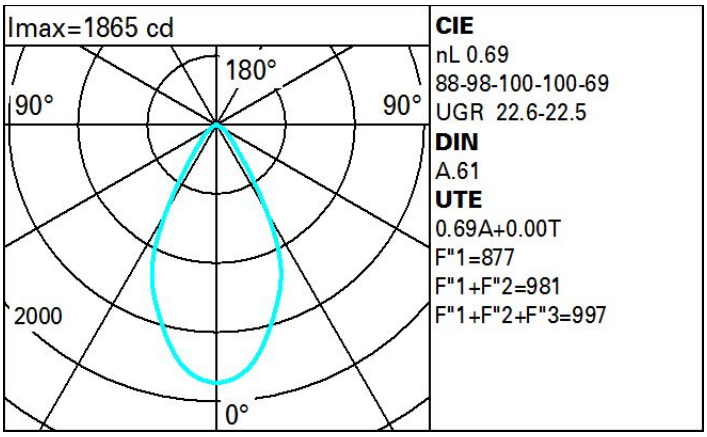
Complies with EN60598-1 and pertinent regulations

IP20

Technical data

lm system:	1552	MacAdam Step:	2
W system:	21.9	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
lm source:	2250	Lamp code:	LED
W source:	20	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	70.9	ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0	LED current [mA]:	700
Light Output Ratio (L.O.R.) [%]:	69	Power factor:	See installation instructions
CRI (minimum):	90	Minimum dimming %:	5
Rf (Colour Fidelity Index):	92	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Rg (Gamut Index):	98	Dimming mode:	CCR
Colour temperature [K]:	4000	Control:	DALI

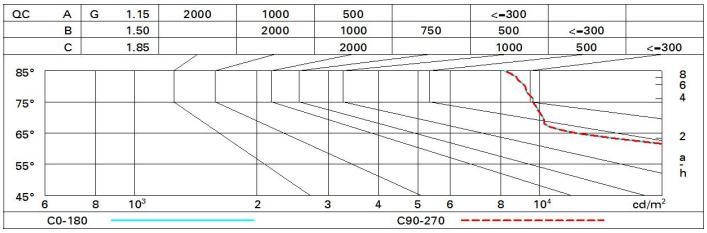
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	58	54	51	49	54	51	51	48	69
1.0	62	58	55	53	57	55	54	52	75
1.5	66	63	61	59	62	60	60	57	83
2.0	69	66	65	63	65	64	63	61	88
2.5	70	68	67	66	67	66	65	63	92
3.0	71	70	69	68	69	68	67	65	94
4.0	72	71	70	70	70	69	68	66	96
5.0	73	72	71	71	71	70	69	67	97

Luminance curve limit



UGR diagram

Corrected UGR values (at 2250 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	22.6	23.3	22.9	23.5	23.7	22.6	23.3	22.9	23.5	23.7
	3H	22.6	23.2	22.9	23.5	23.7	22.6	23.2	23.0	23.5	23.8
	4H	22.6	23.1	22.9	23.4	23.7	22.6	23.1	22.9	23.4	23.7
	6H	22.6	23.1	22.9	23.4	23.7	22.5	23.0	22.9	23.3	23.7
	8H	22.6	23.0	22.9	23.4	23.7	22.5	23.0	22.9	23.3	23.6
	12H	22.5	23.0	22.9	23.3	23.7	22.5	22.9	22.8	23.2	23.6
4H	2H	22.6	23.1	22.9	23.4	23.7	22.6	23.1	22.9	23.4	23.7
	3H	22.6	23.0	23.0	23.4	23.7	22.6	23.1	23.0	23.4	23.8
	4H	22.6	23.0	23.0	23.4	23.8	22.6	23.0	23.0	23.4	23.8
	6H	22.6	23.0	23.0	23.4	23.8	22.5	22.9	23.0	23.3	23.7
	8H	22.6	22.9	23.0	23.3	23.8	22.5	22.8	23.0	23.3	23.7
	12H	22.6	22.9	23.0	23.3	23.8	22.5	22.8	22.9	23.2	23.7
8H	4H	22.5	22.8	23.0	23.3	23.7	22.6	22.9	23.0	23.3	23.8
	6H	22.6	22.8	23.0	23.3	23.7	22.6	22.9	23.1	23.3	23.8
	8H	22.6	22.8	23.1	23.3	23.8	22.6	22.8	23.1	23.3	23.8
	12H	22.6	22.8	23.1	23.3	23.8	22.5	22.7	23.0	23.2	23.7
12H	4H	22.5	22.8	22.9	23.2	23.7	22.6	22.9	23.0	23.3	23.8
	6H	22.5	22.8	23.0	23.2	23.7	22.6	22.8	23.1	23.3	23.8
	8H	22.5	22.7	23.0	23.2	23.7	22.6	22.8	23.1	23.3	23.8

Variations with the observer position at spacing:

S =			
	1.0H	2.4 / -2.2	2.4 / -2.2
	1.5H	4.5 / -4.7	4.5 / -4.7
	2.0H	6.3 / -6.0	6.3 / -6.0