

Product datasheet



Edge-lighting Strip – 0.5m

P/N: L012Gx24B

Areas of application

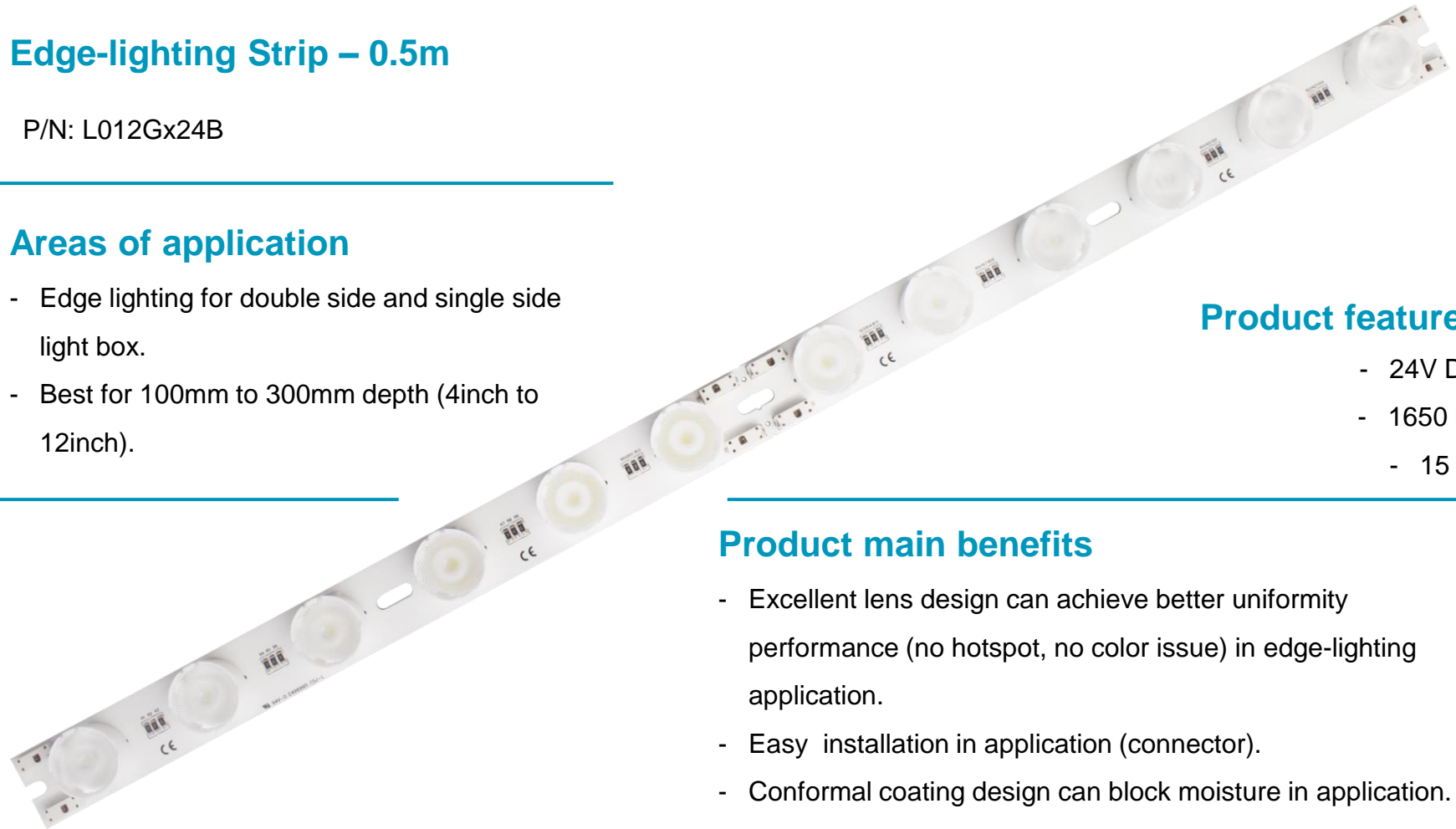
- Edge lighting for double side and single side light box.
- Best for 100mm to 300mm depth (4inch to 12inch).

Product features

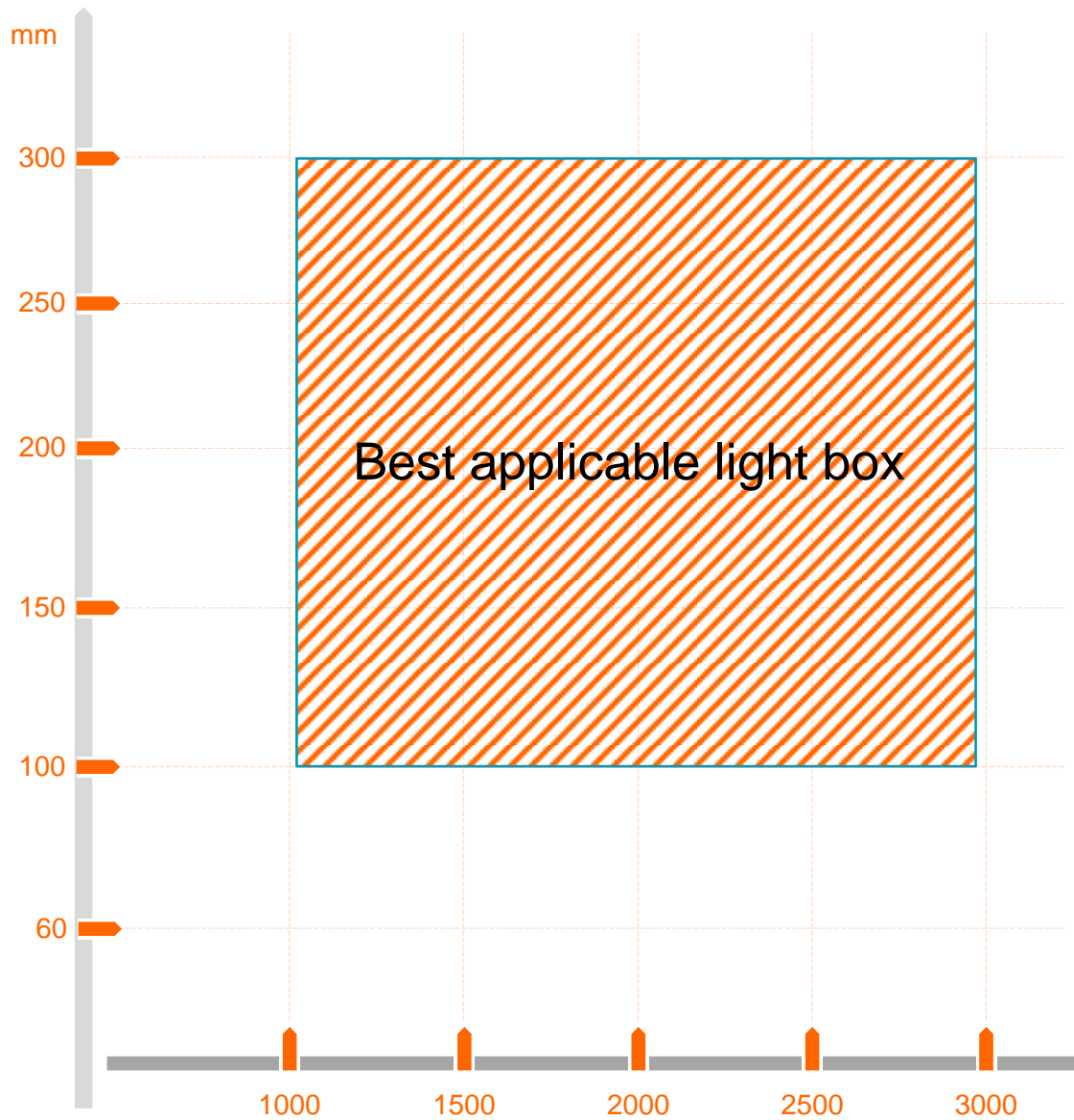
- 24V DC
- 1650 lm
- 15 W

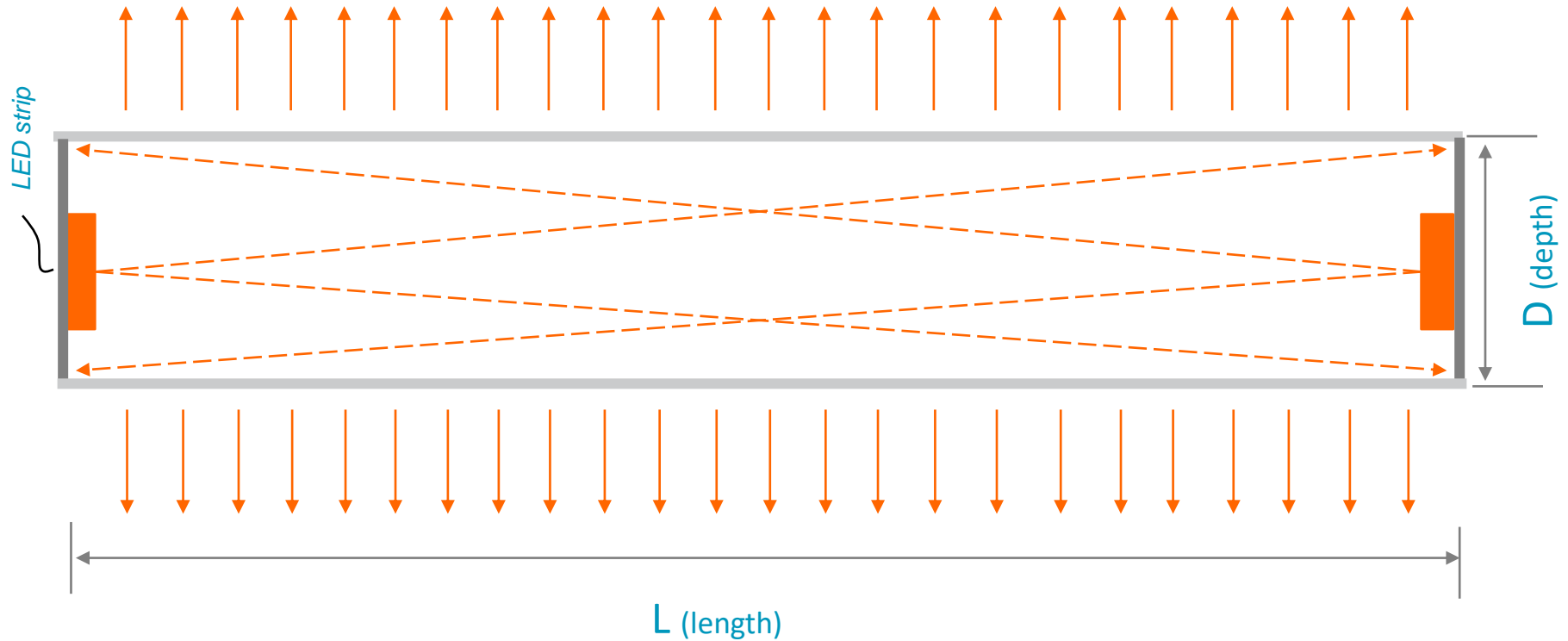
Product main benefits

- Excellent lens design can achieve better uniformity performance (no hotspot, no color issue) in edge-lighting application.
- Easy installation in application (connector).
- Conformal coating design can block moisture in application.
- Halogen free version can meet the standard in station light box.



Best applicable light box





$$\text{optical performance proportion} = \frac{D(\text{depth})}{L(\text{length})} \geq 1:15$$

- The proportion of “D” and “L” can show the performance of lens optics design.
- The bigger proportion, the wider light spot.

Light box depth	Light box length	Surface illuminance (reference)
100mm	1000mm	2000lx
120mm	1200mm	1800lx
150mm	1500mm	1500lx
200mm	2000mm	1200lx
250mm	2500mm	1000lx
300mm	3000mm	800lx

PART NUMBERS	Typical Voltage	Energy Consumption (W/strip)	Product length (meter)
L012Gx24B	24VDC	15	0.5m

Remark:

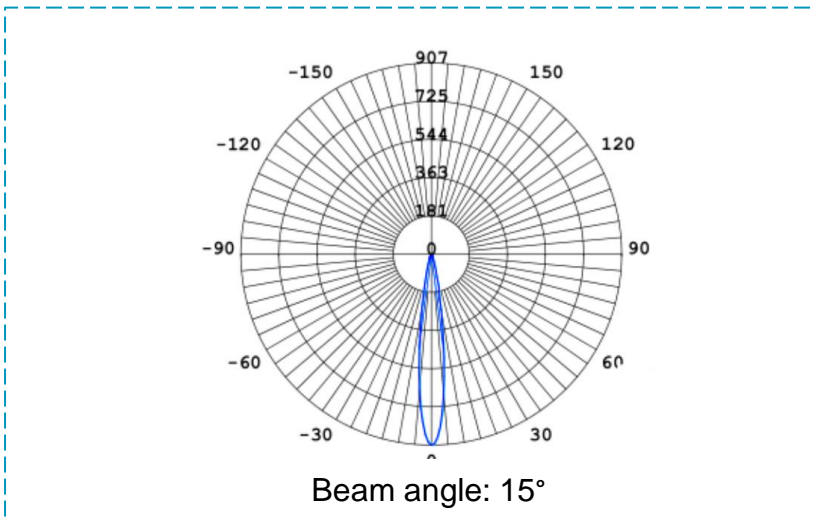
1. Ranking at $t_a = 25^\circ\text{C}$.
2. Constant voltage design.

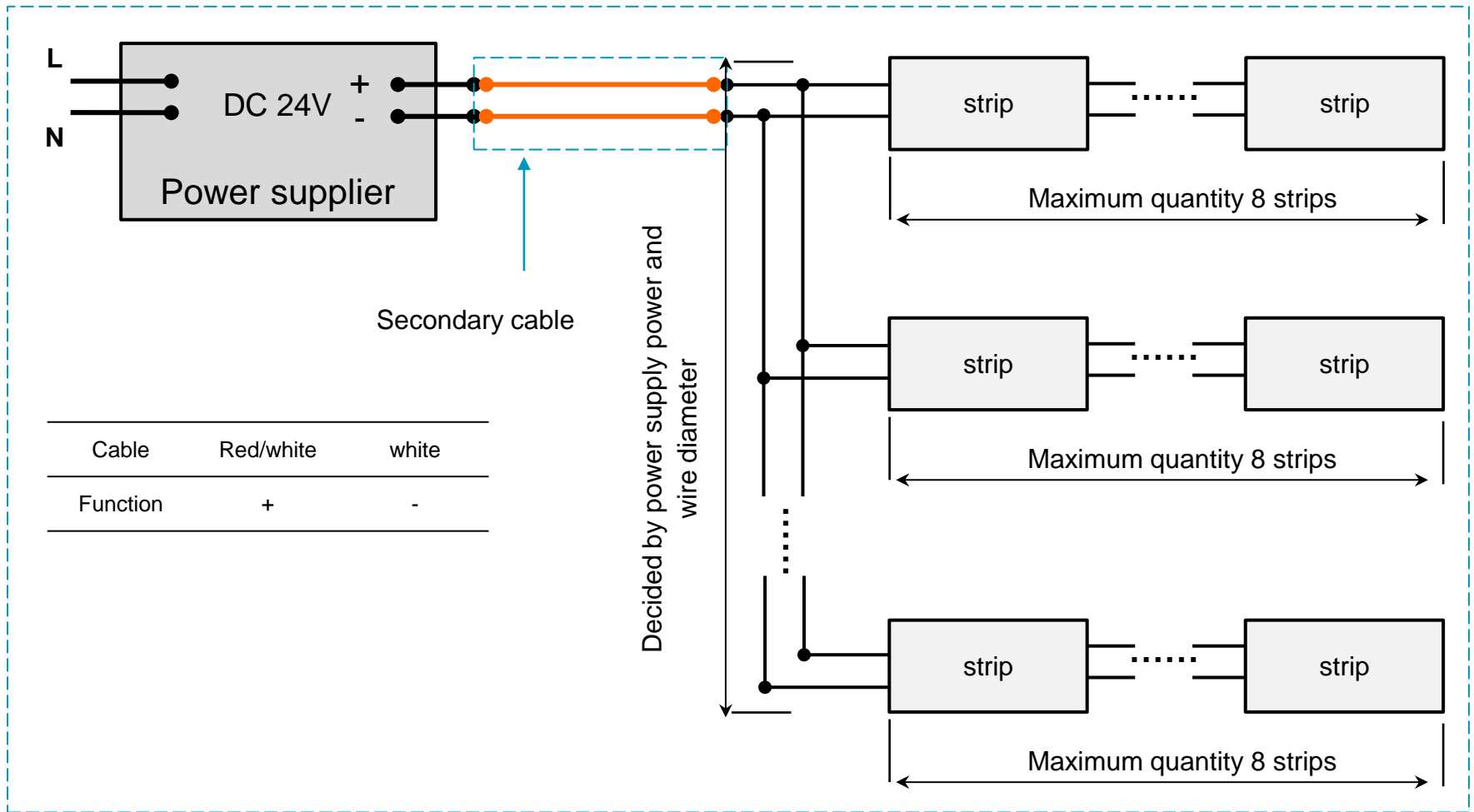
PART NUMBERS	Light color (designation)	Color (CCT, wavelength)	Typical Brightness (lumen/strip)	Color Rendering Index
L012GN24B	Warm white	2700K, 3000K, 4000K	1500	Ra>80
L012GW24B	White	5000K, 6500K, 7100K	1650	Ra>80
L012GW24B	Cool white	8000K, 10000K	1500	Ra>80

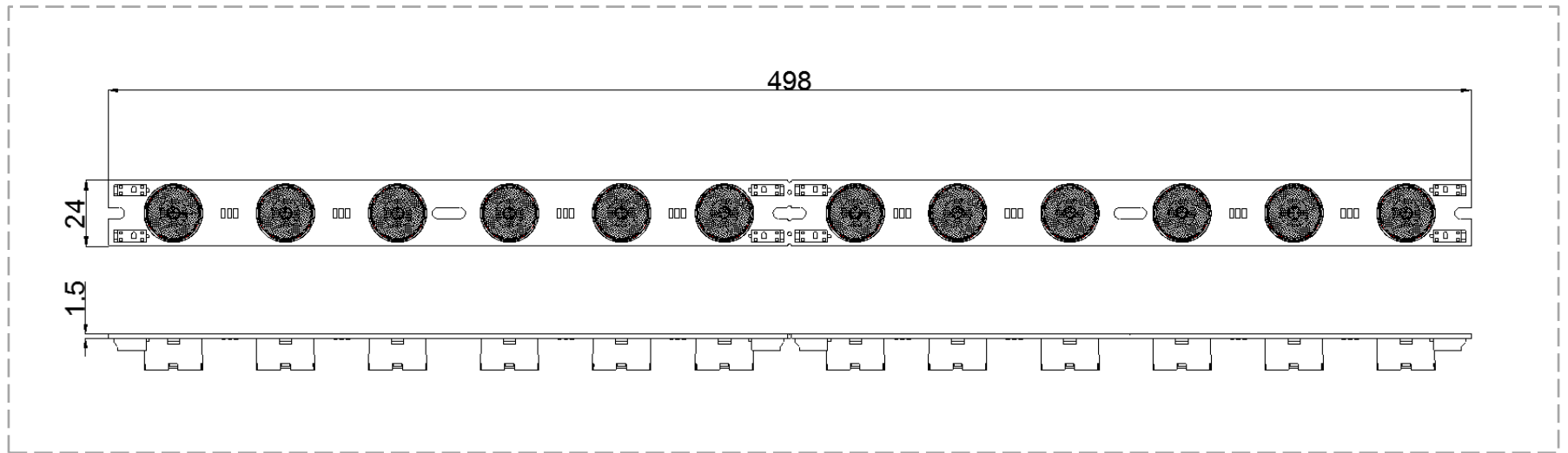
1. Ranking at $t_a = 25^\circ\text{C}$.
2. Tolerance of measurements for brightness is $\pm 10\%$, tolerance of measurements for the Chromaticity Coordinate is ± 0.01 ; the tolerance of CCT should be calculated accordingly.

Application Conditions and light distribution

Operating Environment (t_a)	-25°C to +60°C
Storage Temperature Range (t_s)	-40°C to +85°C
IP Rating	IP20
Lifetime (L70B50)	50,000 hours
t_c temperature	80°C
Dimming mode	Dimmable
Cutting Resolution	Cut on the half of the strips



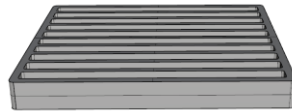




PRODUCTS	PART NUMBERS	Package unit (modules/carton box)	Carton box Dimensions (length x width x height)
ELS0.5	L012Gx24B	200	/



L012GW24B



20CS Per plastic tray



10 plastic tray per carton



200PCS PER Carton

- Installation of LED modules (with power supplies) needs to be made under consideration of all valid regulations and norms.
- Installation by qualified electrician only.
- Parallel connection is mandatory for safe electrical operation. Serial connection of LED modules is discouraged. Unbalanced voltage drop in serial connection can cause hazardous overload
- Electrical contact is achieved with the contact cables or the terminals of the module. Please refer to the technical data for maximum number of LED modules that can be operated on one control gear.
- To avoid mechanical damage, the LED modules have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.
- LED modules are dimmable by means of PWM (pulse width modulation).