Product Technical Datasheet

Spark 24v Luma

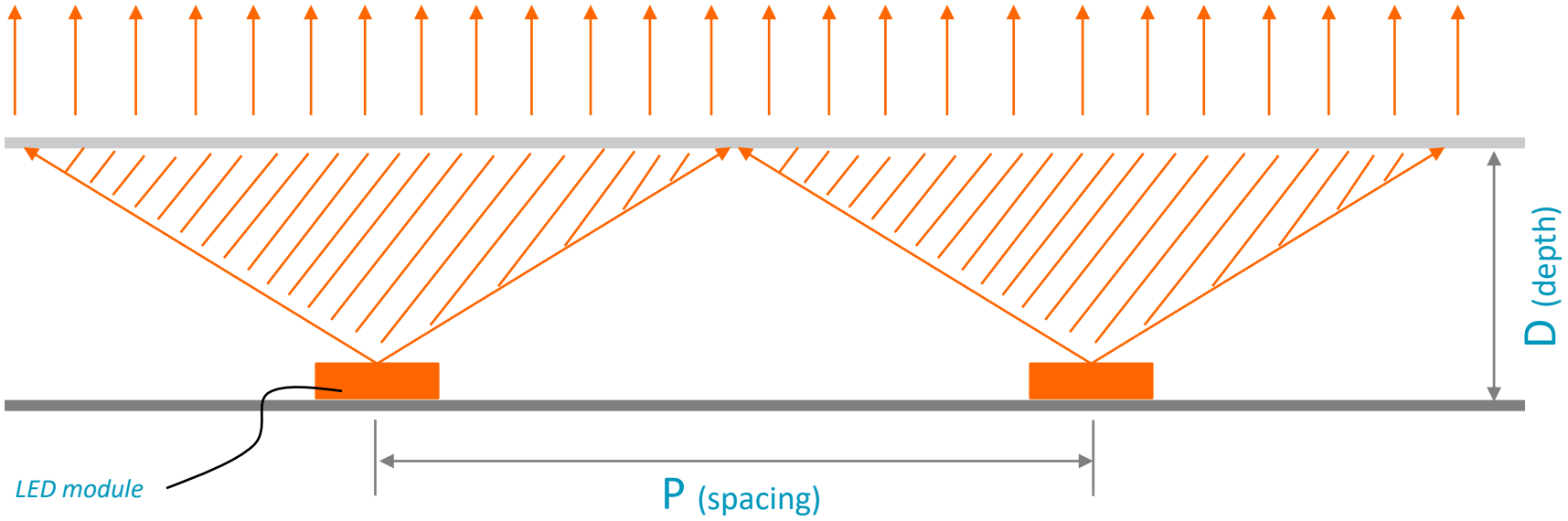
Areas of application

- Signage and illuminated advertising.
- Back-lighting for medium and large light box, channel letter.
- Best for 75mm ~ 250mm (3~10inch) depth.

Product main benefits

- Uniformity optical performance at high LED module distance thanks to excellent lens design.
- 6 W/module.
- 5 years warranty.
- 900 lm/module (6500K).

Optics Technology (wide light spot)



$$optical\ performance\ proportion = \frac{D(depth)}{P(spacing)} = 1:3$$

- The proportion of “P” and “D” can show the performance of lens optics design.
- The bigger proportion, the wider light spot.
- The proportion is for reference from lab, actual layout need based on real application.

Electrical and Photometrical data

Electrical data	Part Numbers	Typical Voltage	Energy Consumption			Additional Information
Spark 24v Luma	M32460701-SU	24VDC	6 W/module	60 W/chain	3.1 W/ft.	10 modules/chain

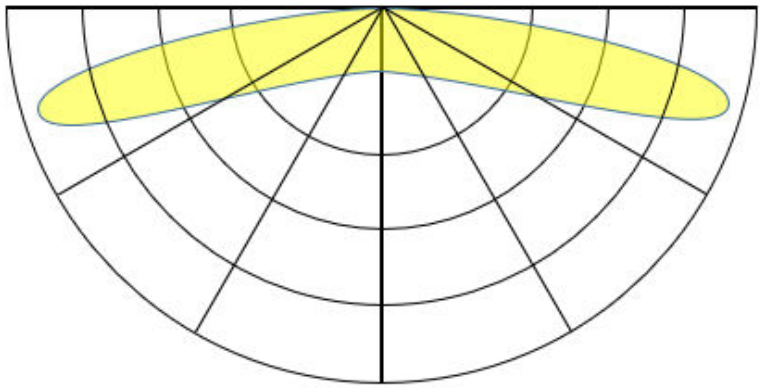
Photometrical data	Part Numbers	Light color (designation)	CCT	Typical Brightness		
Spark 24v Luma	M32460701-SU	White	5000K/6500K	900 lm/module	9000 lm/chain	465 lm/ft.

Remark:

1. *Ranking at t_a= 25℃.*
2. *Constant voltage design.*
3. *Tolerance of measurements for p*

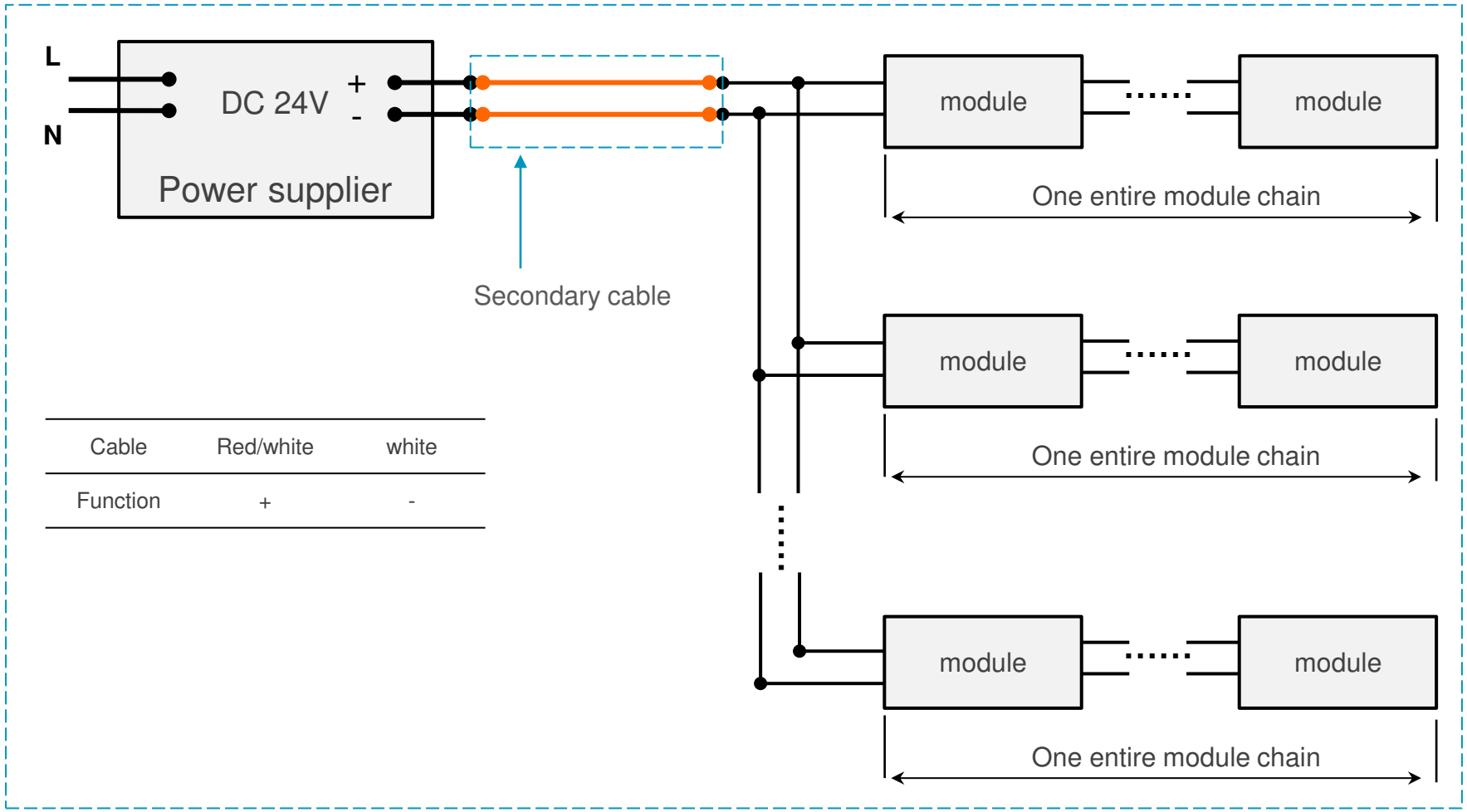
Application Conditions and light distribution

Operating Environment (t_a)	-25°C to +60°C
Storage Temperature Range (t_s)	-40°C to +85°C
IP Rating	IP66
Lifetime (L70B50)	5 years
tc temperature	80℃
Dimming mode	Dimmable
Cutting Resolution	Cut on wire between every module



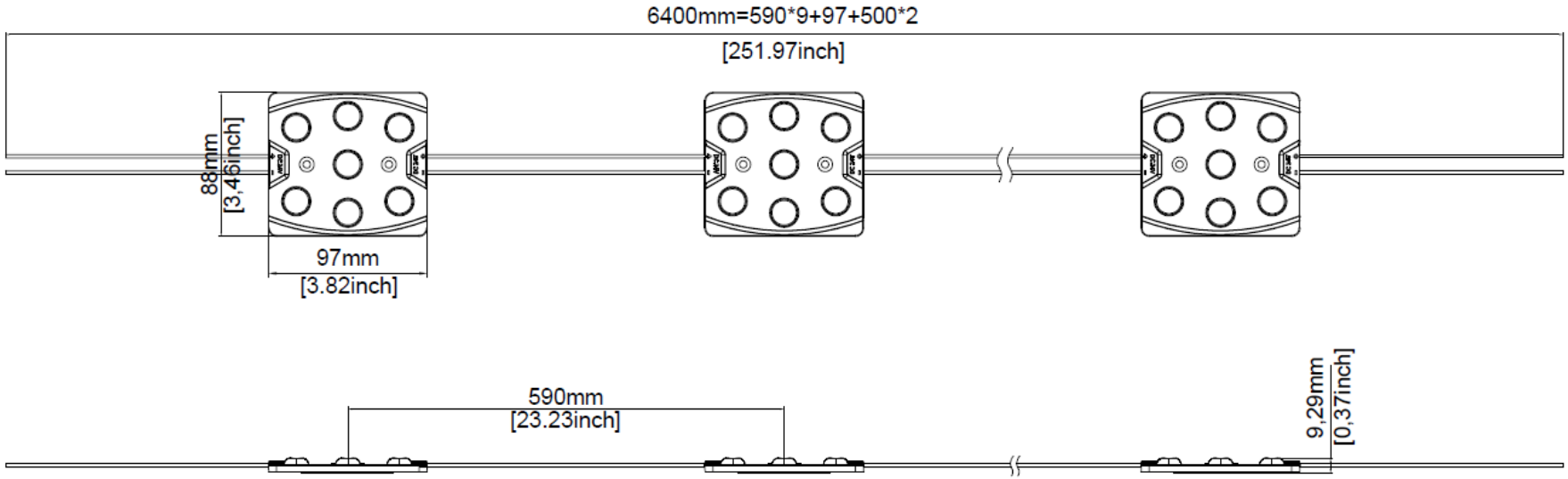
Beam angle: 175°

Wiring method



Cable	Red/white	white
Function	+	-

Drawing


6400mm=590*9+97+500*2
[251.97inch]
88mm
[3,46inch]
97mm
[3.82inch]
590mm
[23.23inch]
9,29mm
[0,37inch]

Package and additional information

Products	Part Number	Package unit (modules/carton box)	Carton box Dimensions (length x width x height)
Spark 24v Luma	M32460701-SU	200/Carton	52 x 37 x 26 cm

Additional information:

- 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).
- During installation, it is highly recommended to install modules with screws to ensure long-term stability. Other means of securing modules(sealant, vinyl, etc.) are also acceptable.