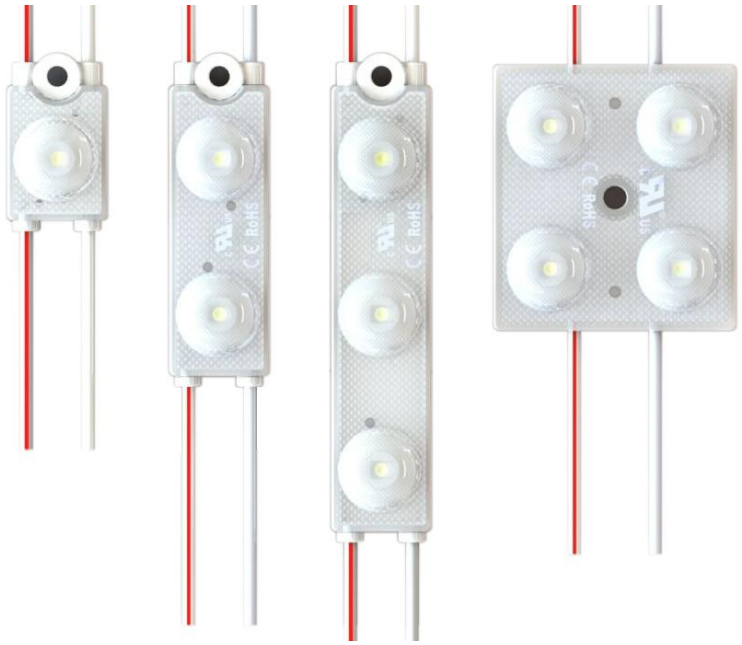
Product datasheet

VISCOM LEDS & FRAMES



NOVA

NOVA50HTBF/NOVA50HTBC/

NOVA50HTBF

NOVA100HTBF12/NOVA100HTBC12 /

NOVA100HTBN12/NOVA100HTBF12

NOVA150HTBN12 /NOVA150HTBC12/

NOVA150HTBF65

NOVA200HTBF12

Areas of application

- Signage and illuminated advertising.
- Backlighting of channel letters and light box.
- Best for 30mm to 200mm depth (1.2inch to 8inch).

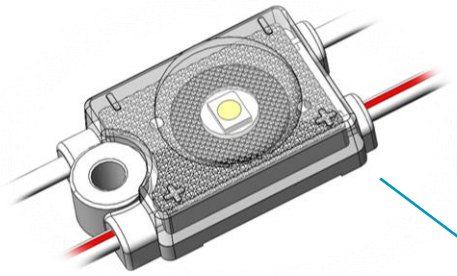
Product main benefits

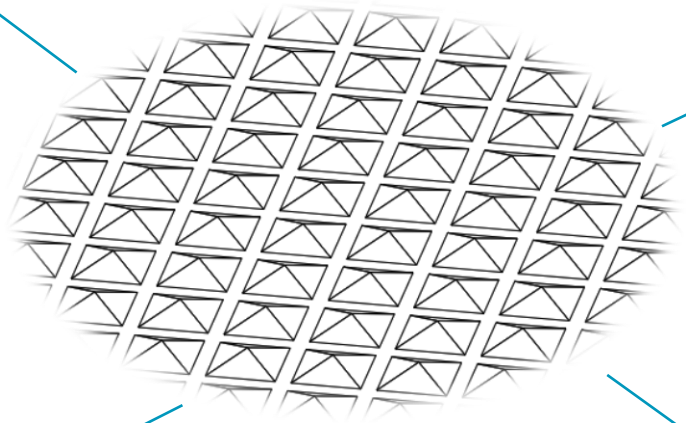
- Uniform and efficient illumination at high LED module distance thanks to new excellent lens design.
- New technology to get high efficiency.
- 5 Years warranty.- 165 lm/W.

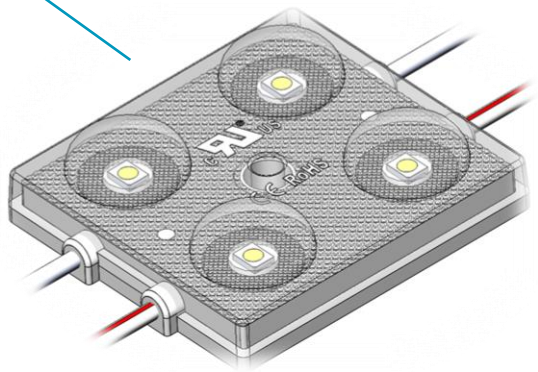
RoHS COMPLIANT LM-79 TESTED LM-80 TESTED LUMILEDS

Lens Technology (micro lens design)

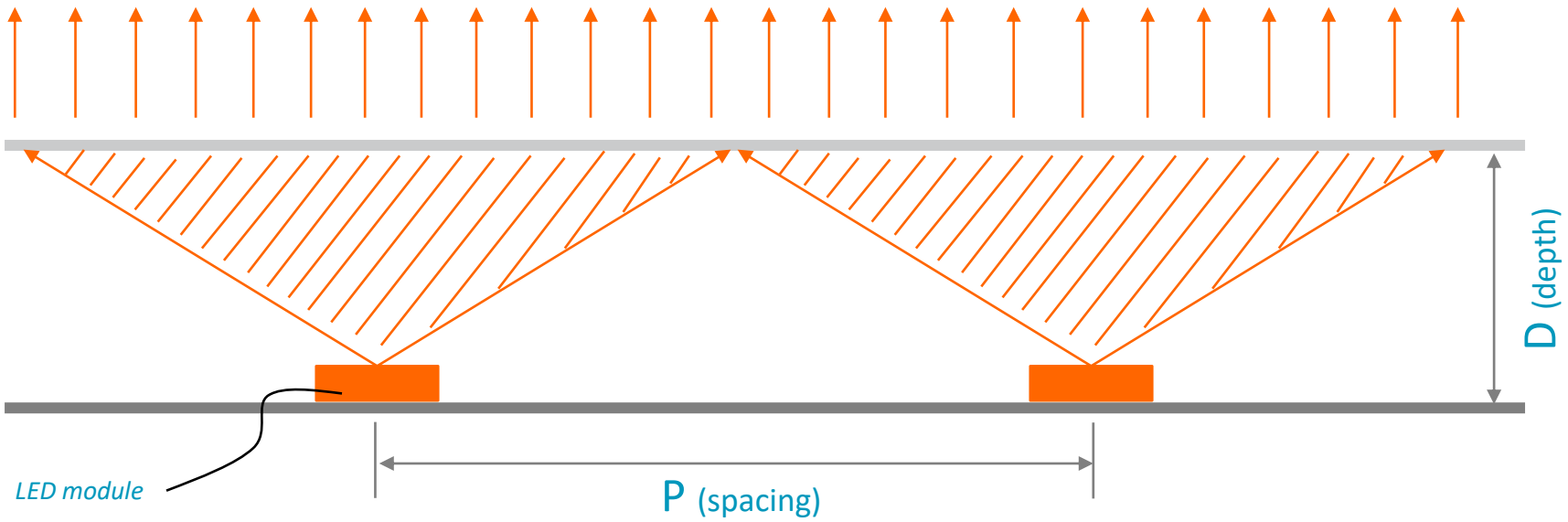
Overall micro lens design can improve the lens uniformity performance (mynice patent).







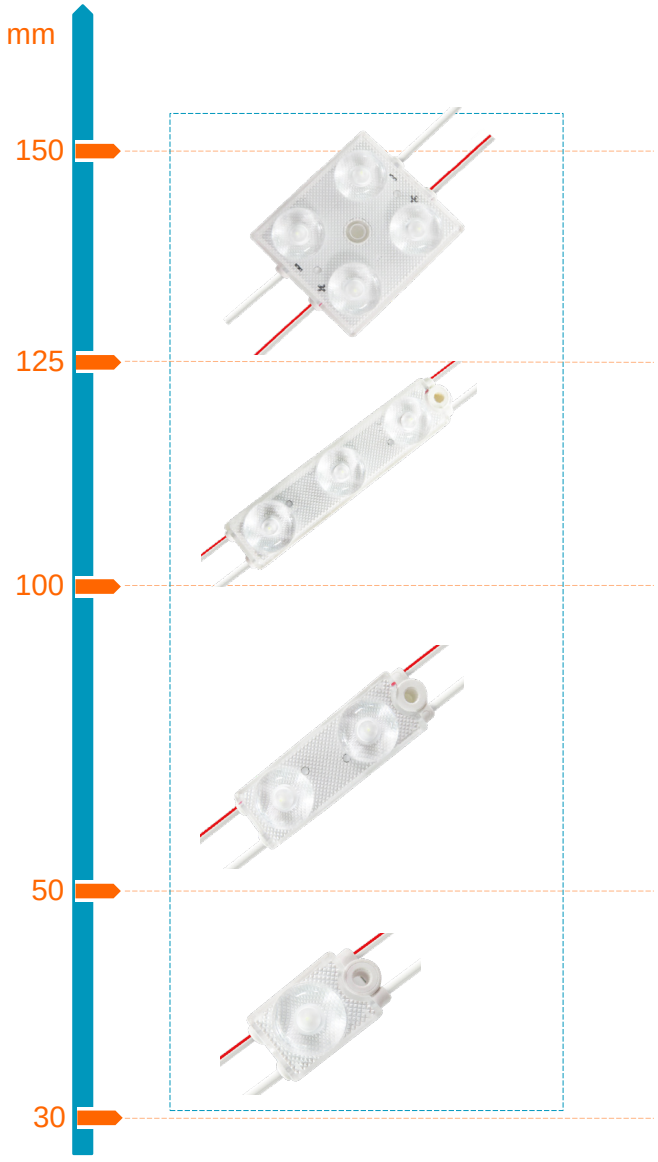
Optics Technology (wide light spot)

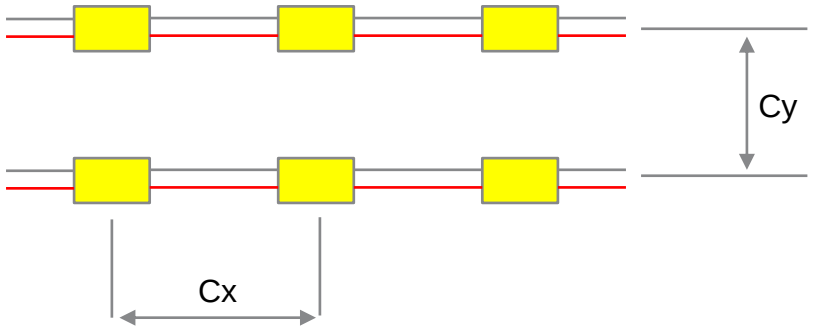


$$optical\ performance\ proportion = \frac{D(depth)}{P(spacing)} = 1{:}3$$

- 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.

Application





Product	Depth	Cx	Cy	Surface illuminance
NOVA50HTBF/ NOVA50HTBC/ NOVA50HTBF	50mm	100mm	90mm	2500lux
NOVA100HTBF12/ NOVA100HTBC12 / NOVA100HTBN12/ NOVA100HTBF12	80mm	180mm	160mm	1450lux
NOVA150HTBN12 /NOVA150HTBC12 / NOVA150HTBF65	100mm	220mm	200mm	1400lux
NOVA200HTBF12	130mm	260mm	240mm	1200lux

Electrical data

Products	Part Numbers	Typical Voltage	Energy Consumption (W/module)	Energy Consumption (W/chain)	Energy Consumption (W/ft.)	Additional Information (modules/chain)
NOVA	NOVA50HTBF/ NOVA50HTBC/ NOVA50HTBF	12VDC	0.5	10	1.5	20
NOVA	NOVA100HTBF12/ NOVA100HTBC12 / NOVA100HTBN12/ NOVA100HTBF12	12VDC	1.0	20	1.7	20
NOVA	NOVA150HTBN12 / NOVA150HTBC12 / NOVA150HTBF65	12VDC	1.5	30	2.1	20
NOVA	NOVA200HTBF12	12VDC	2.0	40	2.5	20

Remark:

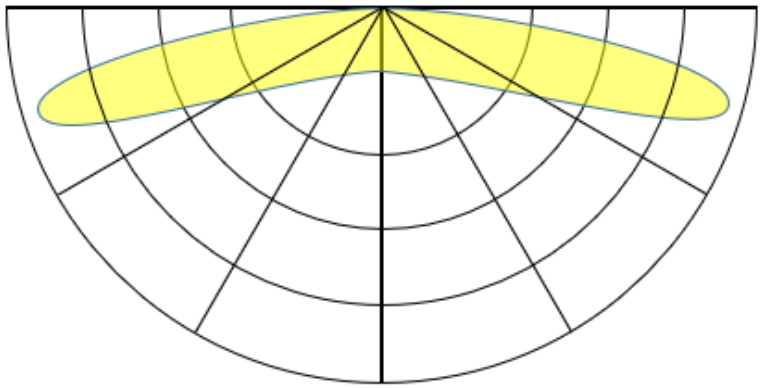
1. Ranking at t_a= 25℃.
2. Constant voltage design.

Photometrical data

Products	Part Numbers	Light color (designation)	Color (CCT, wavelength)	Typical Brightness (lumen/module)	Typical Brightness (lumen/chain)
NOVA	NOVA50HTBC	Warm white	3000K/4000K	78	1560
	NOVA50HTBF	White	6500K	82	1640
NOVA	NOVA50HTBF	White	7000K	80	1600
	NOVA100HTBC12	Warm white	3000K/4000K	156	3120
	NOVA100HTBN12	Warm white			
	NOVA100HTBF12	White	6500K	164	3280
	NOVA100HTBF12	White	7000K	160	3200
NOVA	NOVA150HTBN12/C12	White	3000K/4000K	240	4680
	NOVA150HTBF65	White	6500K	255	4940
NOVA	NOVA200HTBF12	White	6500K/7000K	330	6600

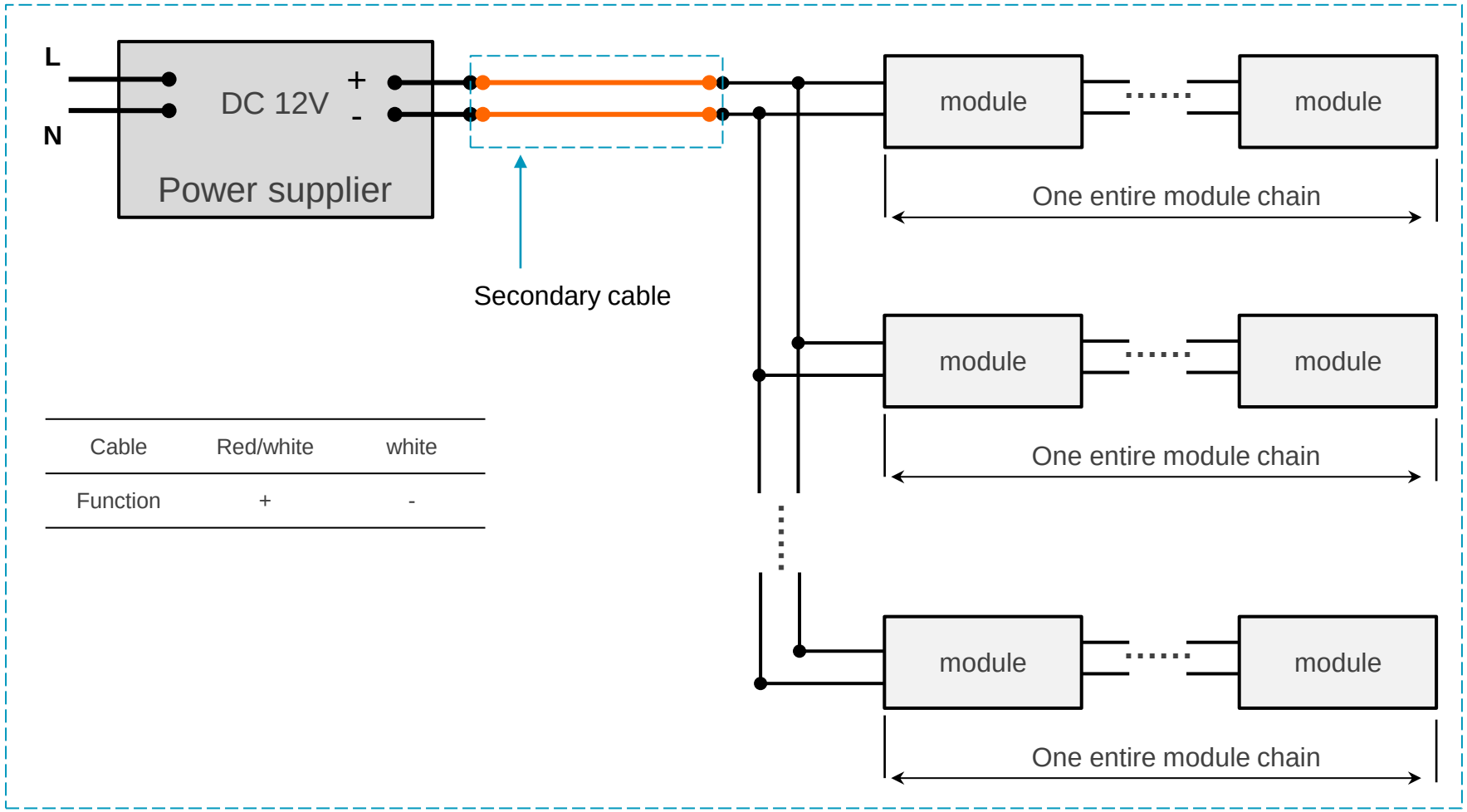
Application Conditions and light distribution

Operating Environment (t_a)	-25°C to +60°C
Storage Temperature Range (t_s)	-40°C to +85°C
IP Rating	IP67
Lifetime (L70B50)	5 years
tc temperature	80℃
Dimming mode	PWM
Cutting Resolution	Cut on wire between every module



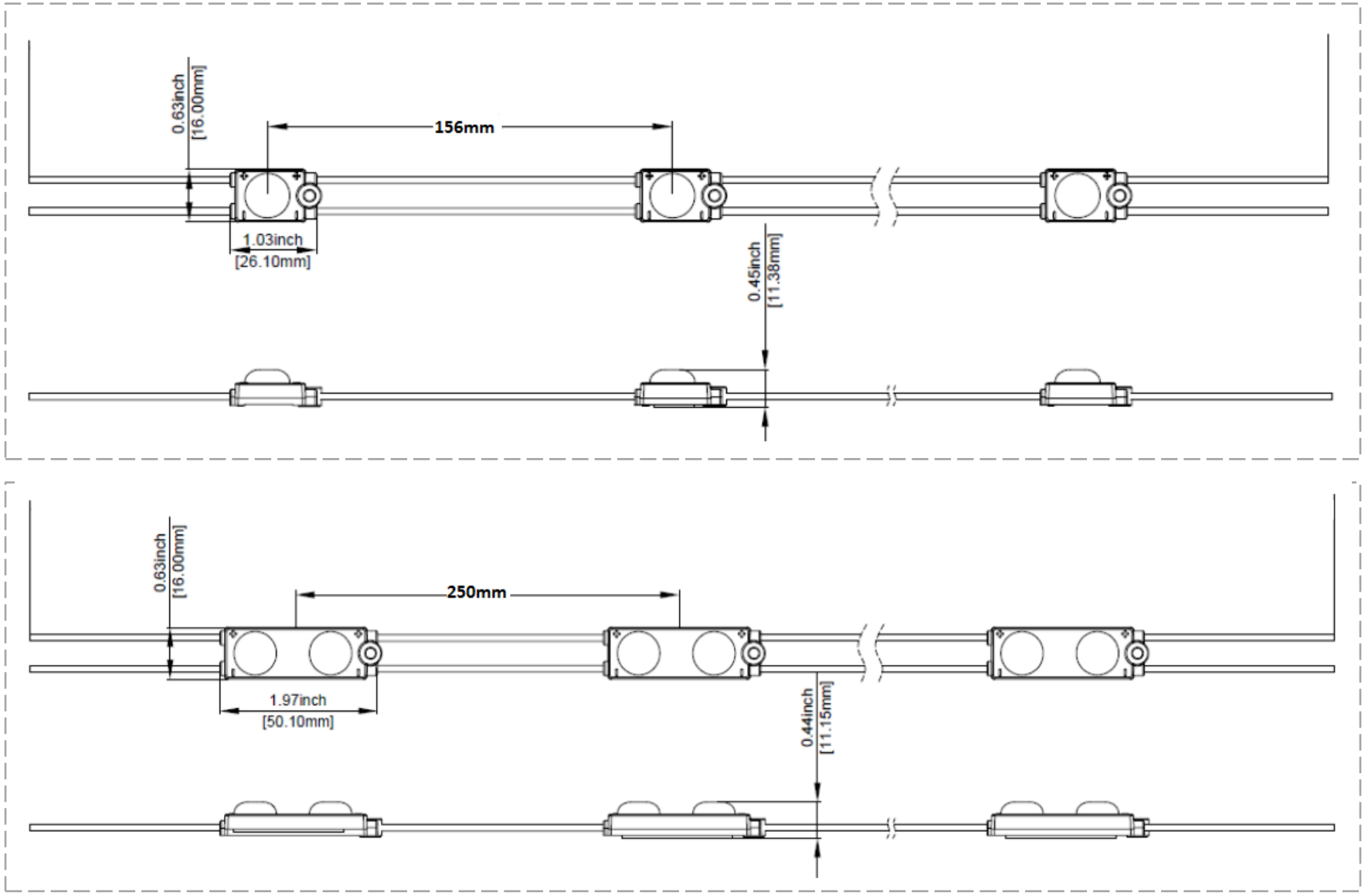
Beam angle: 175°

Wiring method

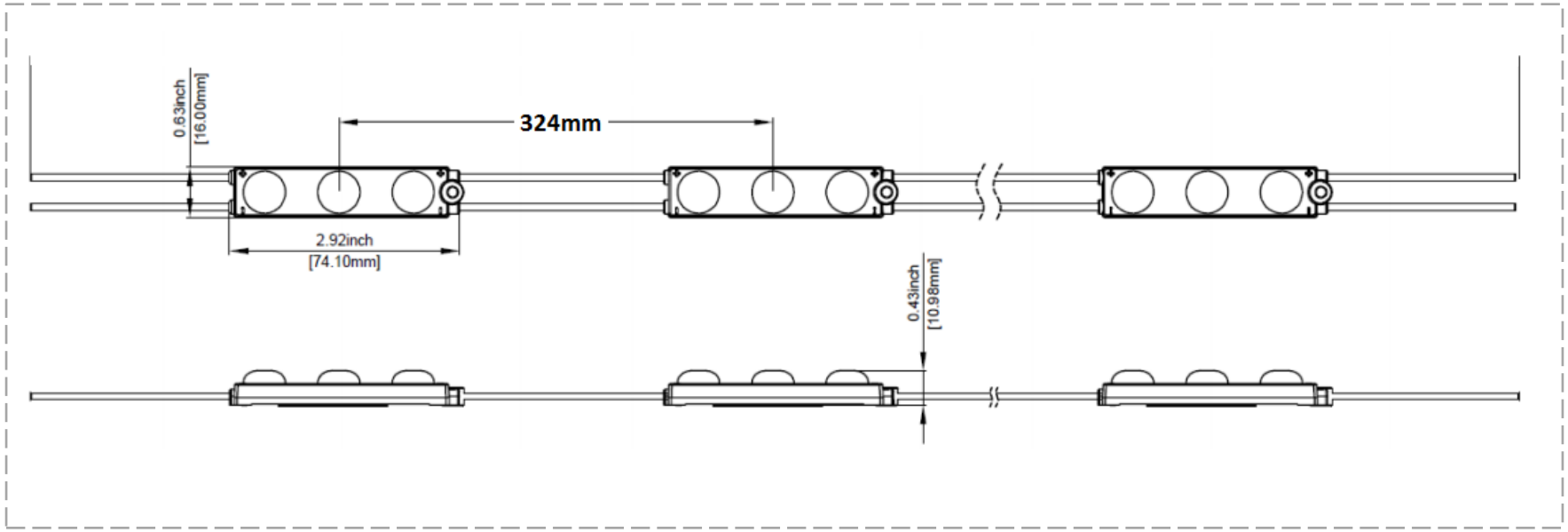


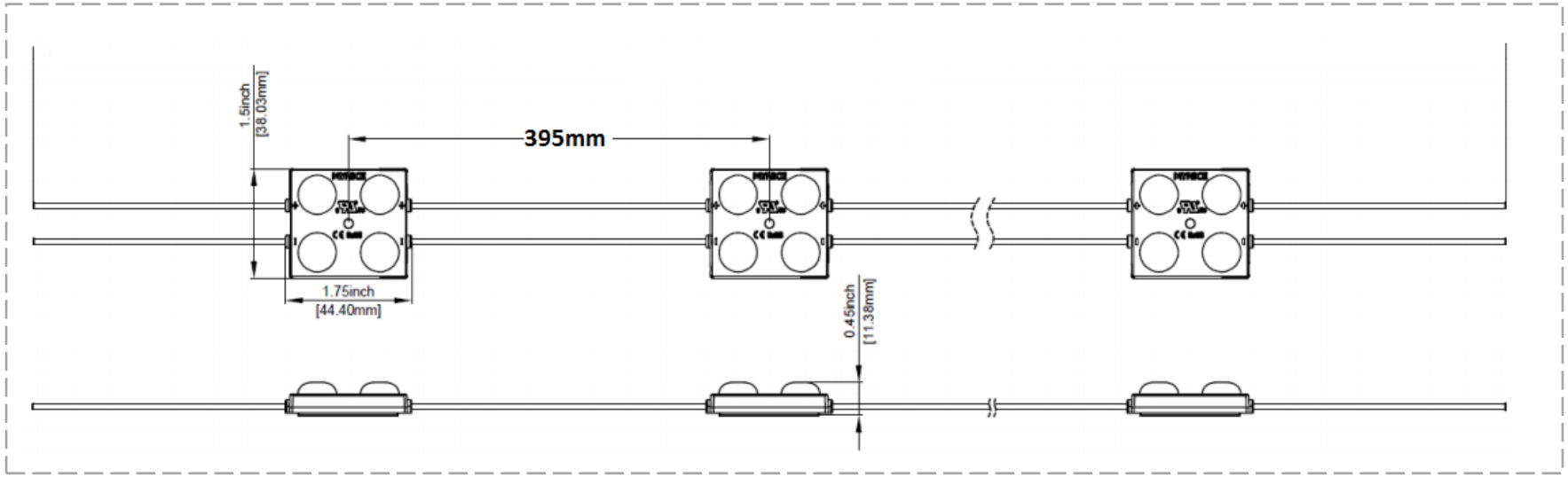
Cable	Red/white	white
Function	+	-

Drawing


0.63inch
[16.00mm]
156mm
1.03inch
[26.10mm]
0.45inch
[11.38mm]
0.63inch
[16.00mm]
250mm
1.97inch
[50.10mm]
0.44inch
[11.15mm]

Drawing


0.63inch
[16.00mm]
324mm
2.92inch
[74.10mm]
0.43inch
[10.98mm]


1.5inch
[38.03mm]
395mm
1.75inch
[44.40mm]
0.45inch
[11.38mm]

Aditional information

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.