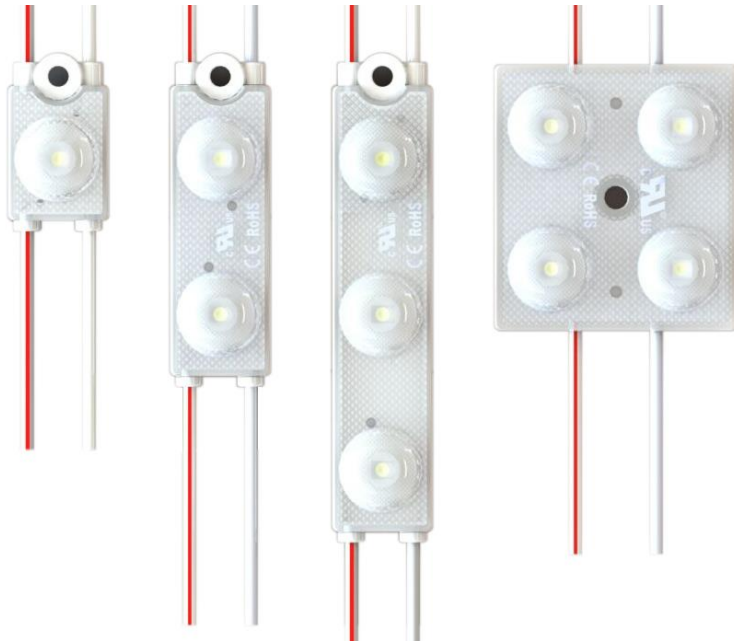


Product datasheet



NOVA

NOVA1: M21GW(N)22B

NOVA1: M21GW(N)11E

NOVA2: M22GW(N)22B

NOVA2: M22GW(N)11E

NOVA3: M23GW(N)22B

NOVA3: M23GW(N)11E

NOVA4: M24GW(N)22B

NOVA4: M24GW(N)11E

Areas of application

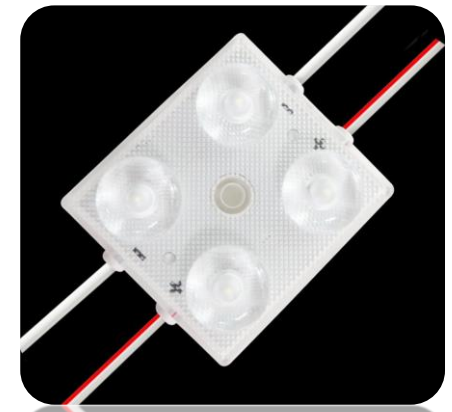
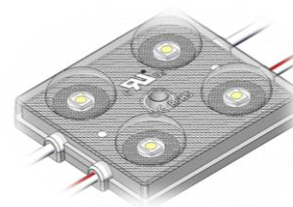
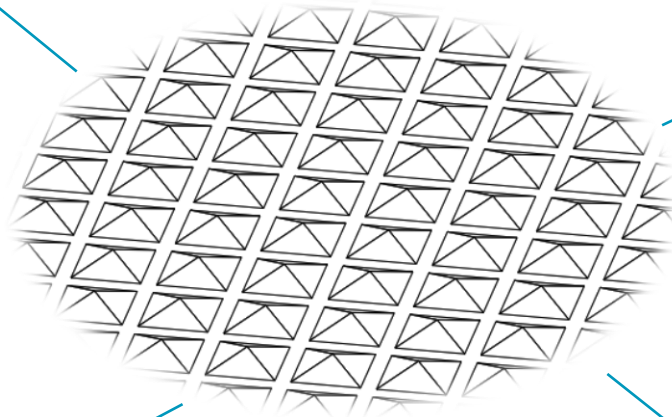
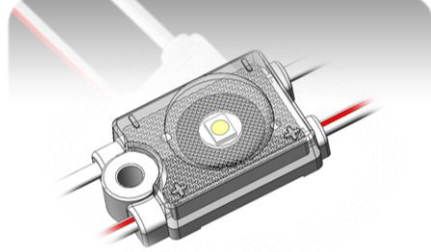
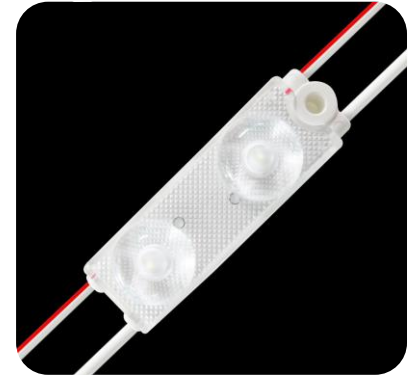
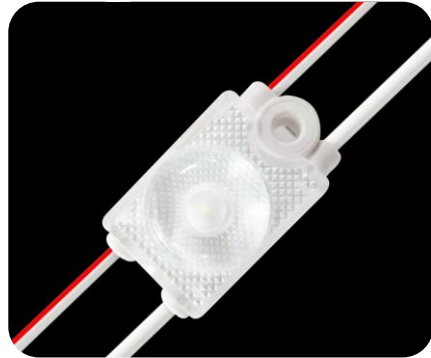
- Signage and illuminated advertising.
- Backlighting of channel letters and light box.
- Best for 30mm to 200mm depth (1.2inch to 8inch).

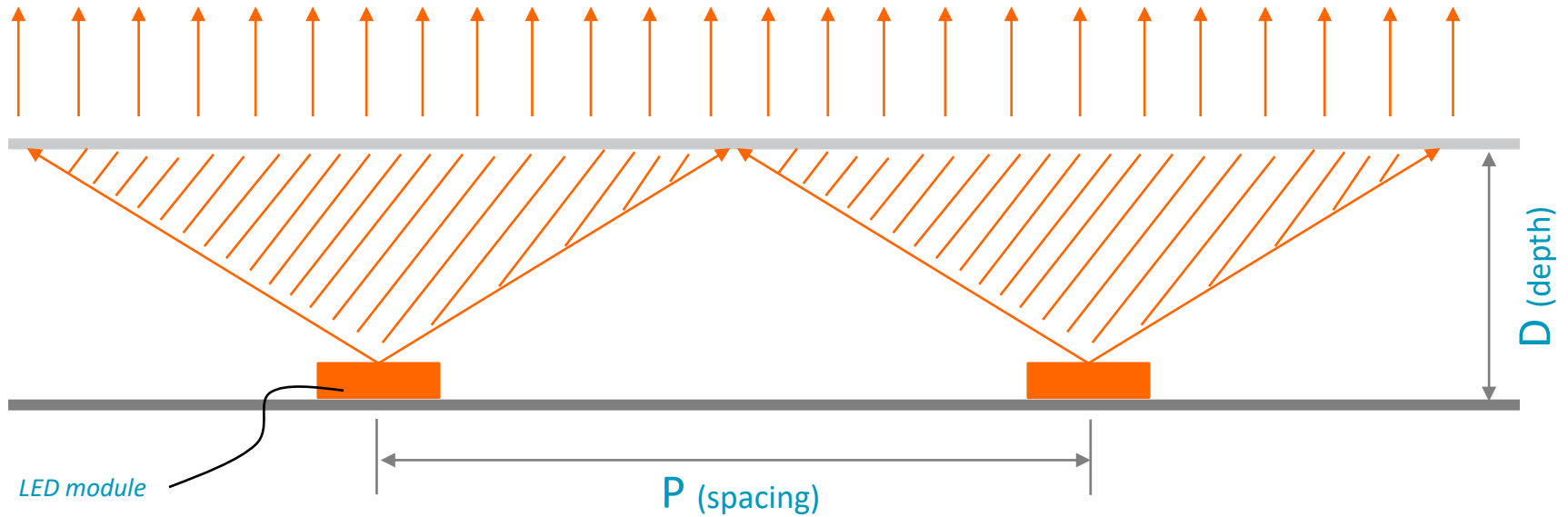
Product main benefits

- Uniform and efficient illumination at high LED module distance thanks to new excellent lens design.
- New technology to get high efficiency.
- 5 Years warranty.
- 170 lm/W (6500K, NOVA2/NOVA4).



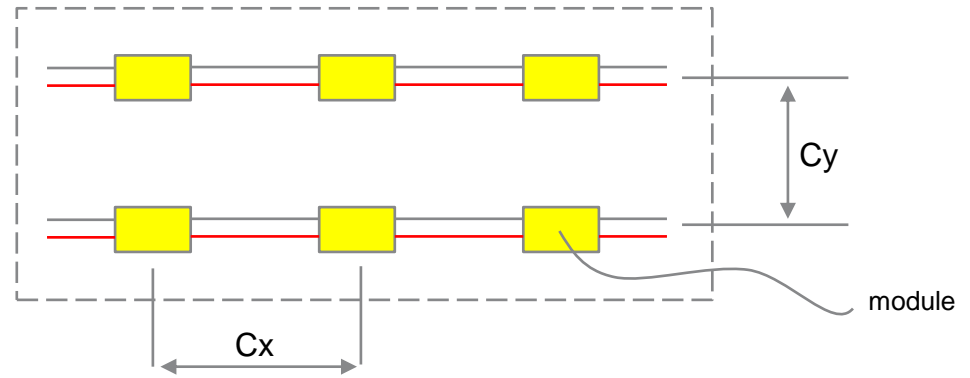
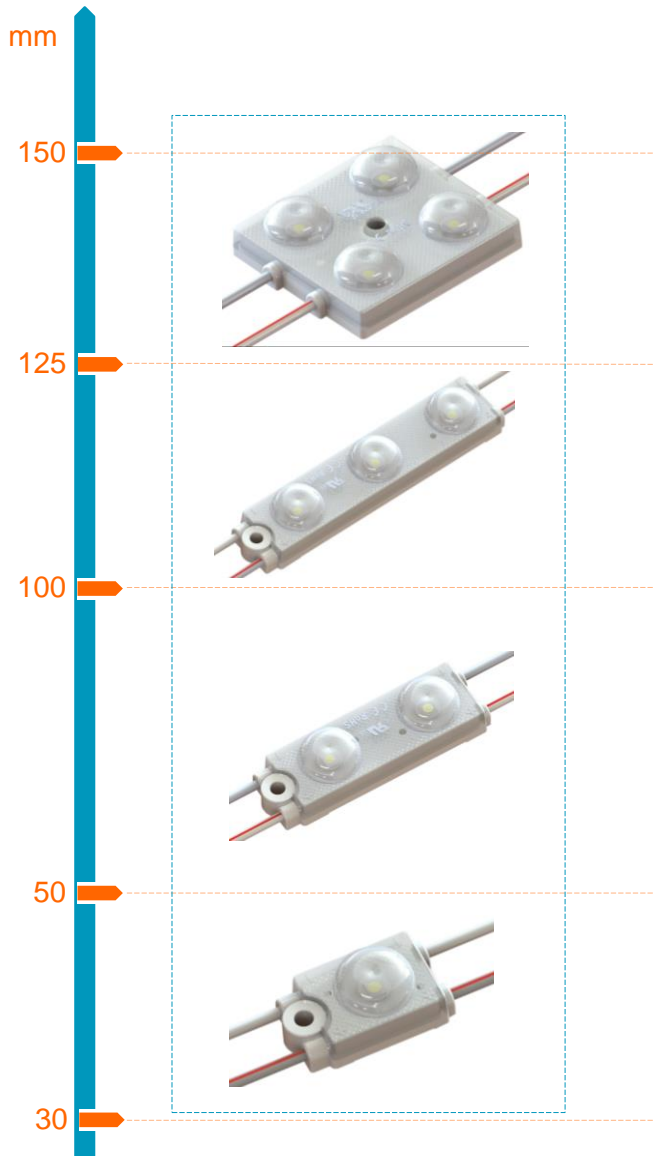
Overall micro lens design can improve the lens uniformity performance (mynice patent).





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

- 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.



Product (6500K)	Depth	Cx	Cy	Surface illuminance
NOVA1	50mm	100mm	90mm	2000lux
NOVA2	80mm	180mm	160mm	1380lux
NOVA3	100mm	220mm	200mm	1130lux
NOVA4	130mm	260mm	240mm	1150lux

Electrical data (constant current)

PRODUCTS	PART NUMBERS	Typical Voltage	Energy Consumption (W/module)	Energy Consumption (W/chain)	Energy Consumption (W/ft.)	Additional Information (modules/chain)
NOVA1	M21GW(N)11E	24VDC	0.5	50	1.5	100
NOVA2	M22GW(N)11E	24VDC	0.72	43.2	1.2	60
NOVA3	M23GW(N)11E	24VDC	1.5	135	2.1	90
NOVA4	M24GW(N)11E	24VDC	1.44	43.2	1.8	30

Remark:

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

Electrical data (constant voltage)

PRODUCTS	PART NUMBERS	Typical Voltage	Energy Consumption (W/module)	Energy Consumption (W/chain)	Energy Consumption (W/ft.)	Additional Information (modules/chain)
NOVA1	M21GW(N)22B	24VDC	0.5	10	1.5	20
NOVA2	M22GW(N)22B	24VDC	0.72	14.4	1.2	20
NOVA3	M23GW(N)22B	24VDC	1.5	30	2.1	20
NOVA4	M24GW(N)22B	24VDC	1.44	28.8	1.8	20

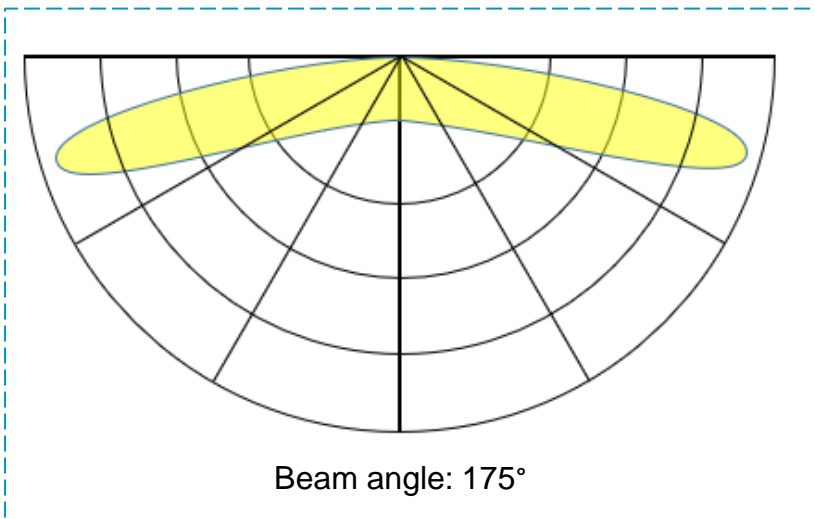
Remark:

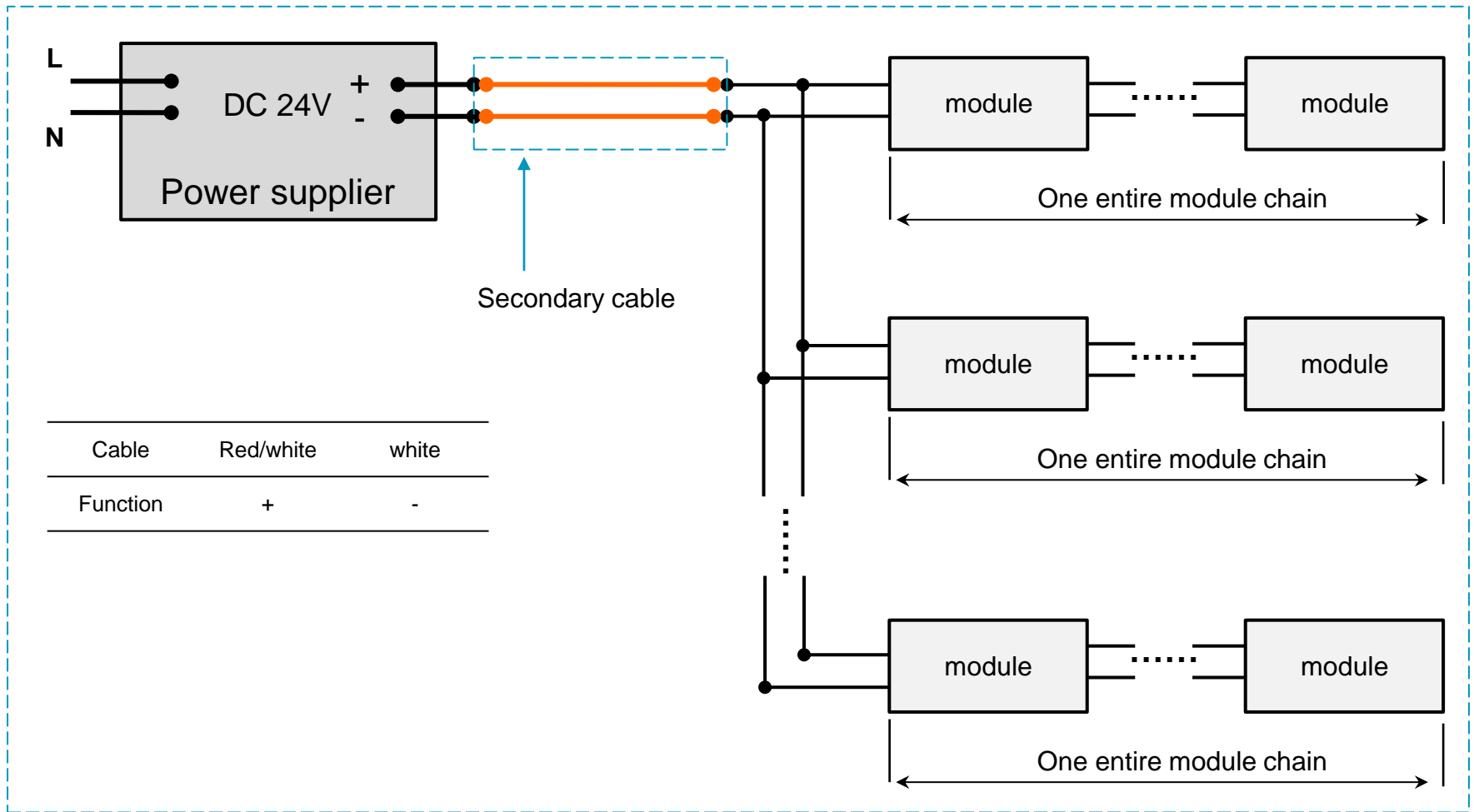
1. Ranking at $t_a = 25^\circ\text{C}$.
2. Constant voltage design.

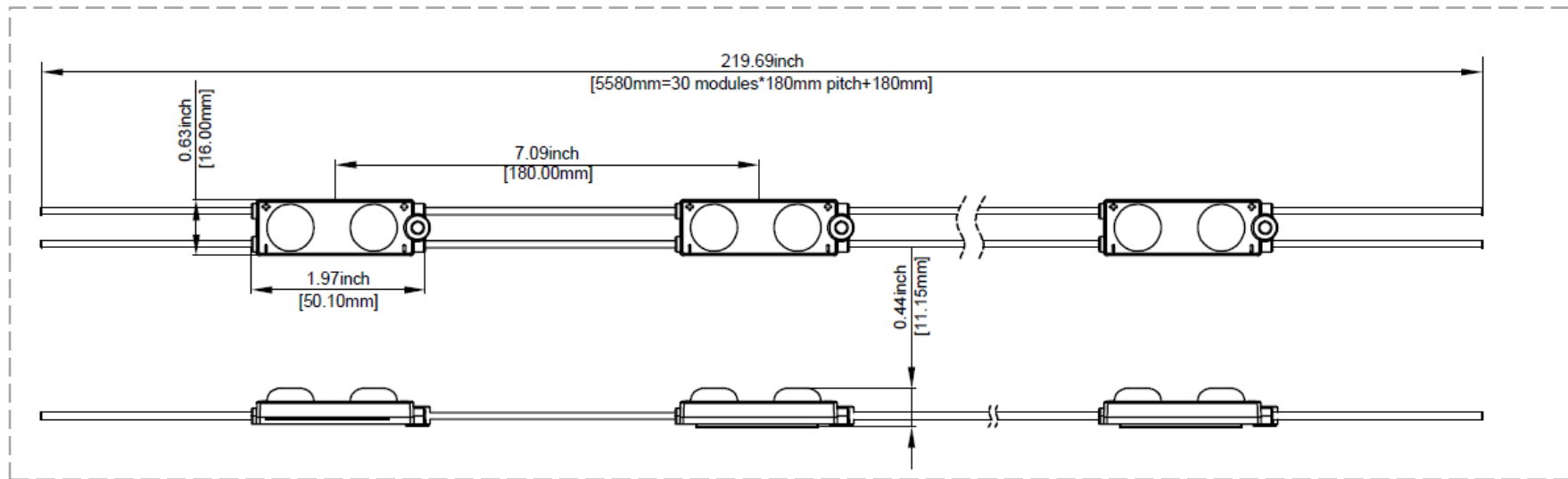
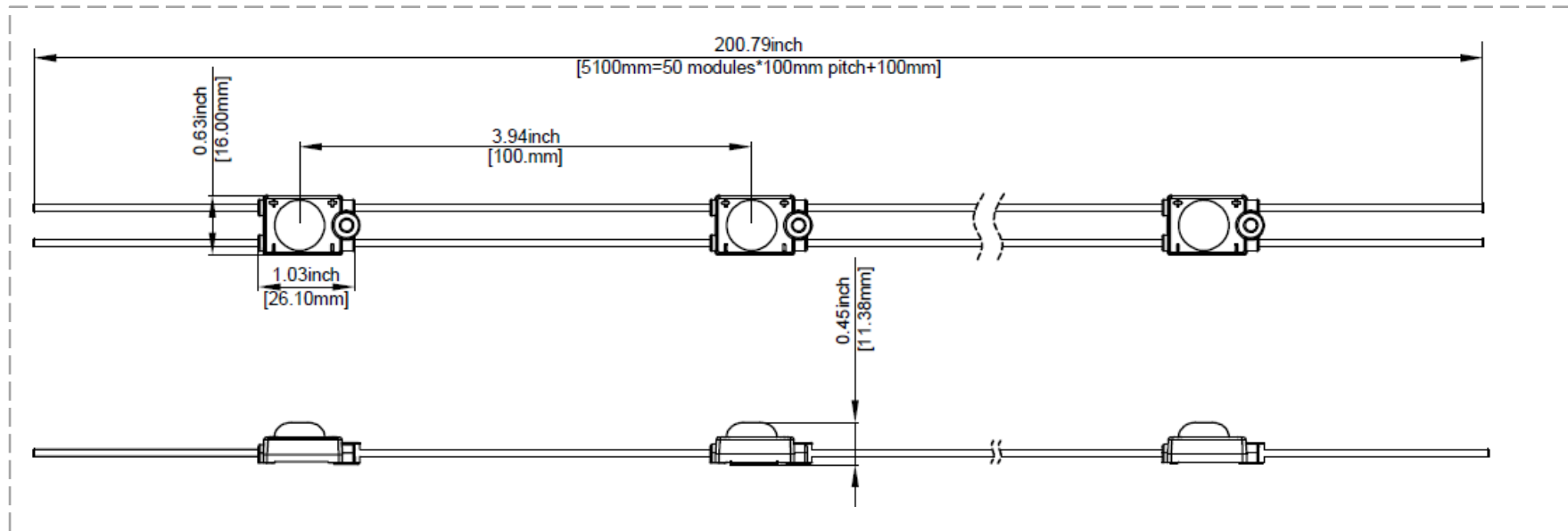
Products	Part Numbers	Light color (designation)	Color (CCT, wavelength)	Typical Brightness (lumen/module)	Typical Brightness (lumen/ft.)
NOVA1	M21GN22B(11E)	Warm white	3000K/4000K	48	145
	M21GW22B(11E)	White	5000K/6500K/7100K	50	152
	M21GW22B(11E)	Cool White	8000K/10000K	48	145
NOVA2	M22GN22B(11E)	Warm white	3000K/4000K	116	197
	M22GW22B(11E)	White	5000K/6500K/7100K	122	207
	M22GW22B(11E)	Cool White	8000K/10000K	116	197
NOVA3	M23GN22B(11E)	Warm white	3000K/4000K	143	197
	M23GW22B(11E)	White	5000K/6500K/7100K	150	208
	M23GW22B(11E)	Cool White	8000K/10000K	143	197
NOVA4	M24GN22B(11E)	Warm white	3000K/4000K	233	284
	M24GW22B(11E)	White	5000K/6500K/7100K	245	299
	M24GW22B(11E)	Cool White	8000K/10000K	233	284

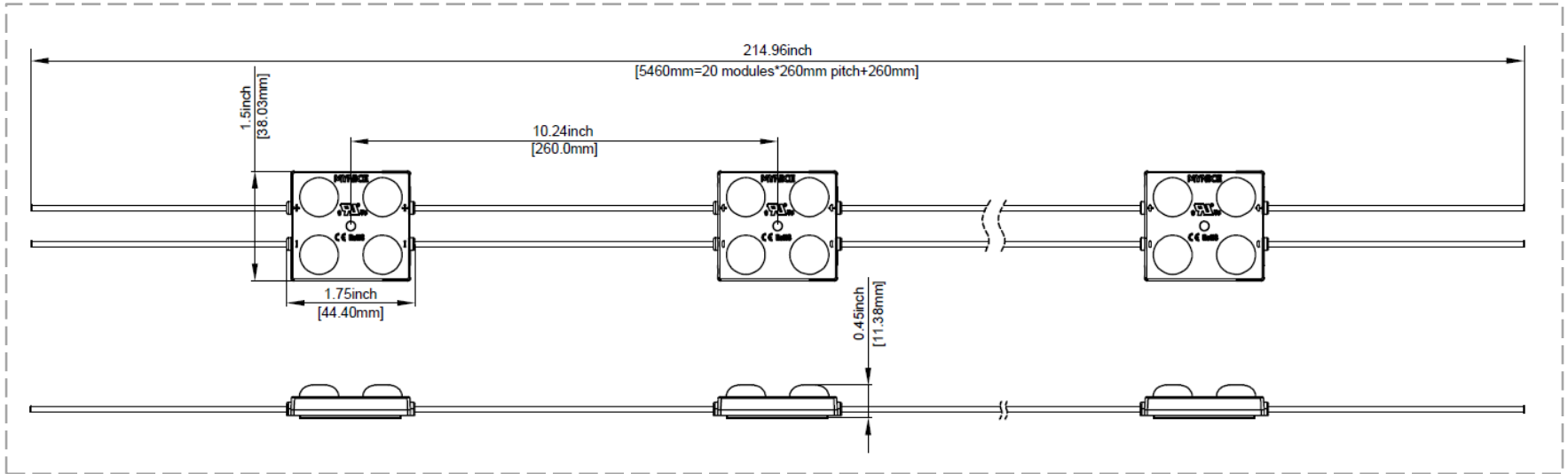
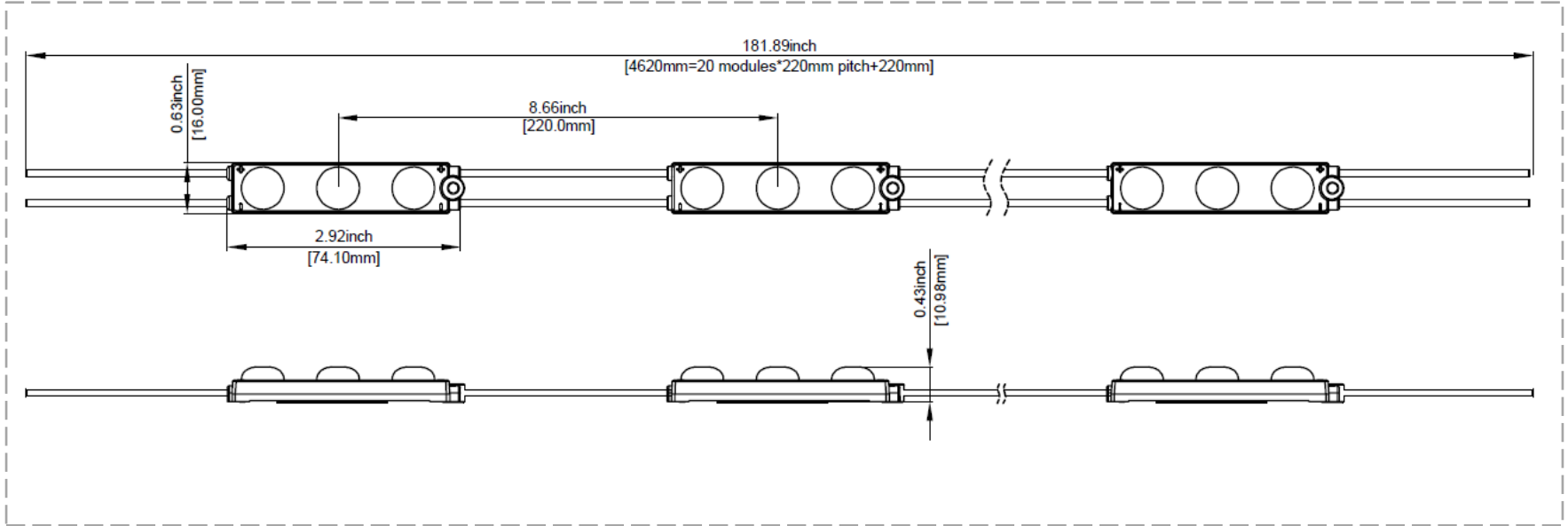
Application Conditions and light distribution

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
t_c temperature	80°C
Dimming mode	Dimmable
Cutting Resolution	Cut on wire between every module









PRODUCTS	PART NUMBERS	Package unit (modules/carton box)	Carton box Dimensions (length x width x height)
NOVA1	M21GW(N)22B(11E)	2800	52 x 37 x 26 cm
NOVA2	M22GW(N)22B(11E)	1400	52 x 37 x 26 cm
NOVA3	M23GW(N)22B(11E)	1000	52 x 37 x 26 cm
NOVA4	M24GW(N)22B(11E)	600	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).