

## LED billboard light



### **I. Product features:**

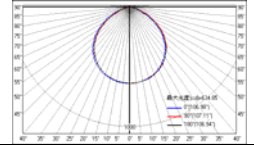
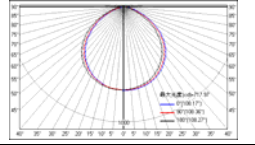
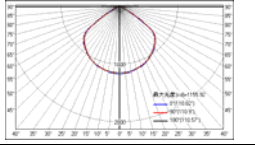
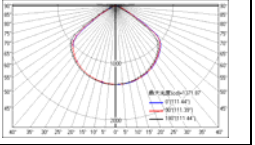




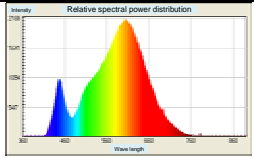
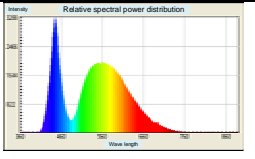
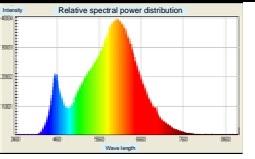
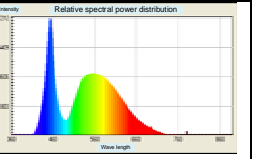
NLB018/036 series LED billboard lights are dedicated for outdoor lighting used, such as billboard lighting, parking lot lighting, landscap lighting...., this series products has a wide beam angle, just like an outdoor bulb to provides a wide area lighting.

- IP67 protection grade.
- 10KV surge protection.
- AC90 ~ 264V power input range.
- Power factor of 0.9 or above.
- Rated life of 50,000 hours (L70), when Ta = 25°C.
- Up to 75% power saving, compared to halogen lamp.
- PSE/CE/CNS certificated.

## II. Specification:

Specification\Model	18W 3000K	18W 5700K	36W 3000K	36W 5700K
Power consumption	18.5W +/- 1W	18.5W +/- 1W	33.7W +/- 2.1W	33.7W +/- 2.1W
Output lumen	1,329lm~1,668lm	1,729lm~2,087lm	2,631 lm~3,176 lm	3,040lm~3,652lm
System efficacy	80 lm/w Typ.	103 lm/w Typ.	85 lm/w Typ.	100 lm/w Typ.
CCT	3045K +/- 175K	5665K +/- 355K	3045K +/- 175K	5665K +/- 355K
CRI	80 min	70min	80 min	70min
Beam angle (FWHM)	105°	105°	105°	105°
Input power	AC 90V ~ AC 264V (50/60Hz)	AC 90V ~ AC 264V (50/60Hz)	AC 90V ~ AC 264V (50/60Hz)	AC 90V ~ AC 264V (50/60Hz)
Working temperature	-40°C ~ 55°C			
Storage temperature	-40°C ~ 80°C			
Weight	1.1Kg	1.1Kg	1.3kg	1.3kg
Dimension	186mm(L)x198mm(H), 130mm(D)			
Luminaries	White / black			
				

## III. Photometric data:

Specification\Mode	18W 3000K	18W 5700K	36W 3000K	36W 5700K
Light intensity distribution				
Maximum light intensity	634.85 cd	717.97cd	1,155.92 cd	1,371.87cd
Illuminance at distance				
Spectral power distribution				

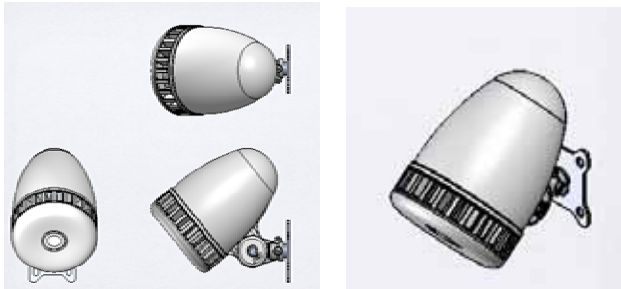
NLB with a 1 meter cantilever.



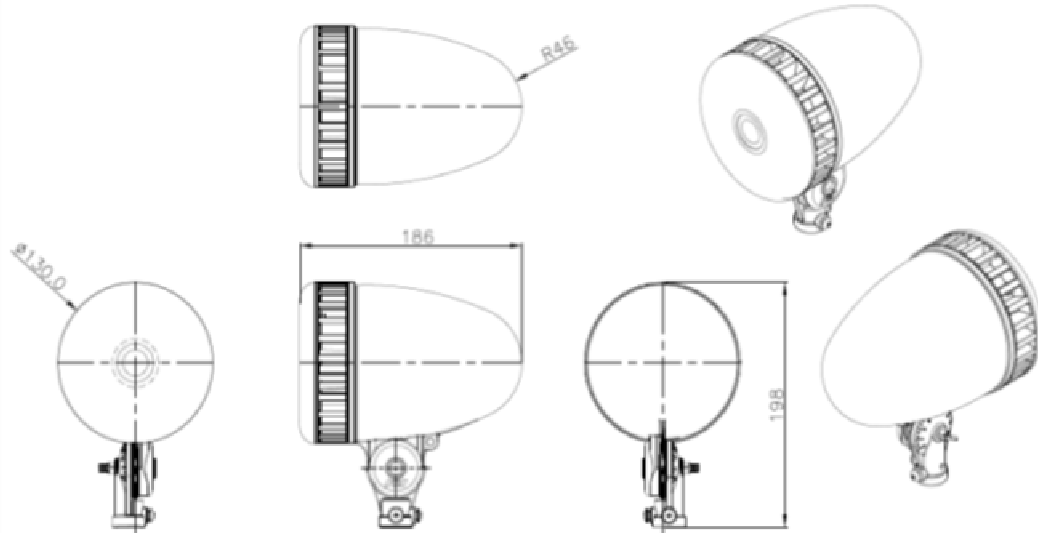
NLB with a 0.5 meter cantilever.



NLB with bracket..

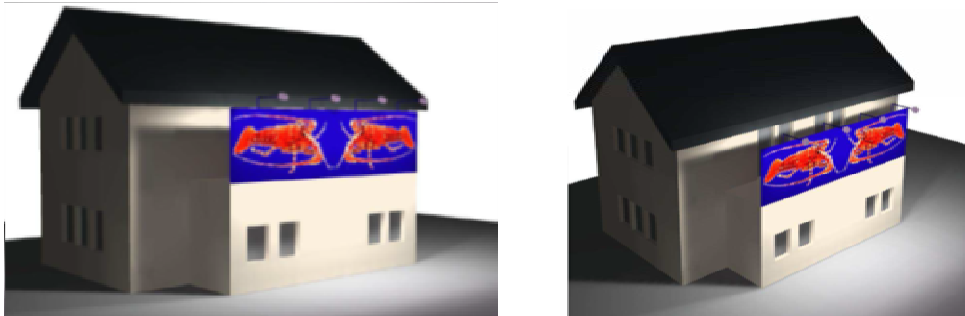


**IV. Mechanical dimension:**

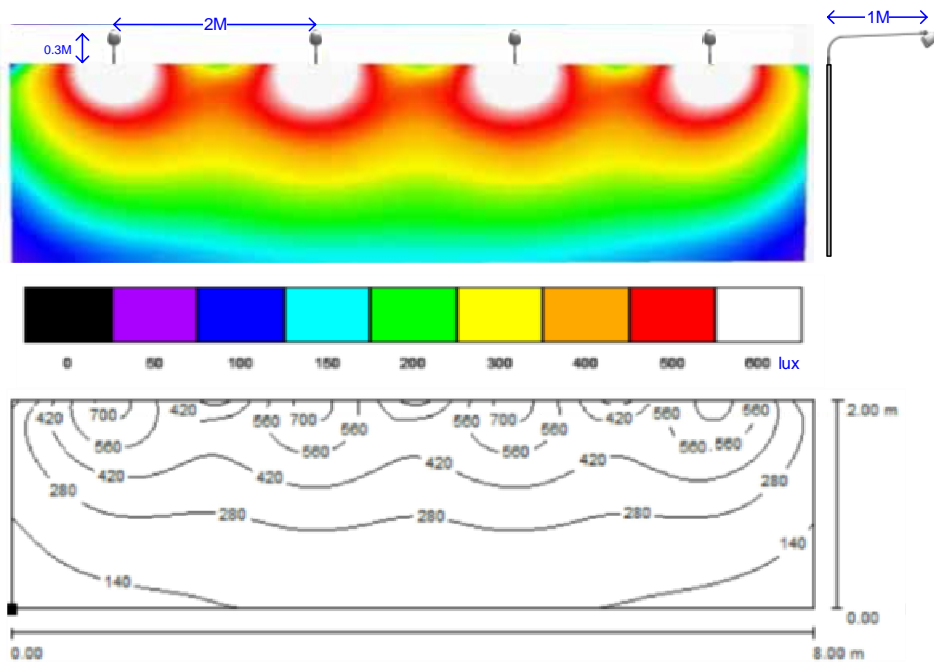


**V. Application:**

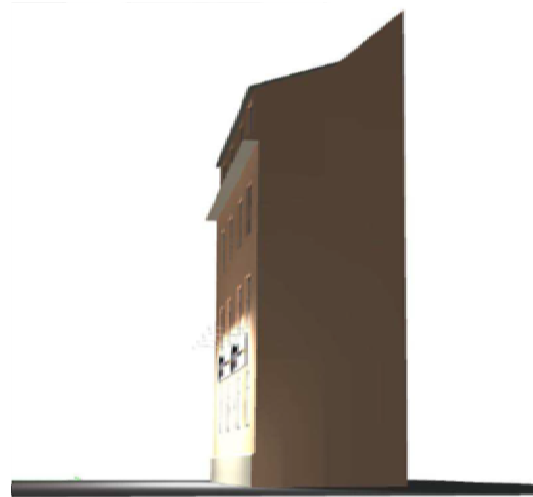
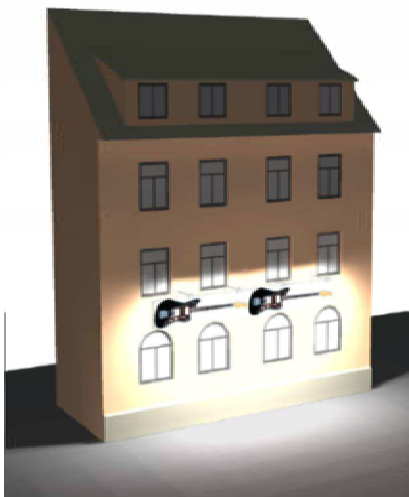
**Example 1. A 8M(L) x 2M(H) billboard lighting application**



- |                              |                            |
|------------------------------|----------------------------|
| 1). Billboard size:          | 8M(L) x 2M(H).             |
| 2). Luminaries Q'ty:         | NLB036_57W_0105 x 4PCS.    |
| 3). Total power consumption: | 135W.                      |
| 4). Luminaries pitch:        | 2 meters.                  |
| 5). Cantilever Length:       | 1 meter.                   |
| 6). Light loss factor:       | 0.8                        |
| 7). Illuminance:             |                            |
| E(avg):                      | 323 lux.                   |
| E(max):                      | 745 lux.                   |
| E(min):                      | 78 lux.                    |
| Uniformity:                  | 0.242 [ E(min) / E(avg) ]. |



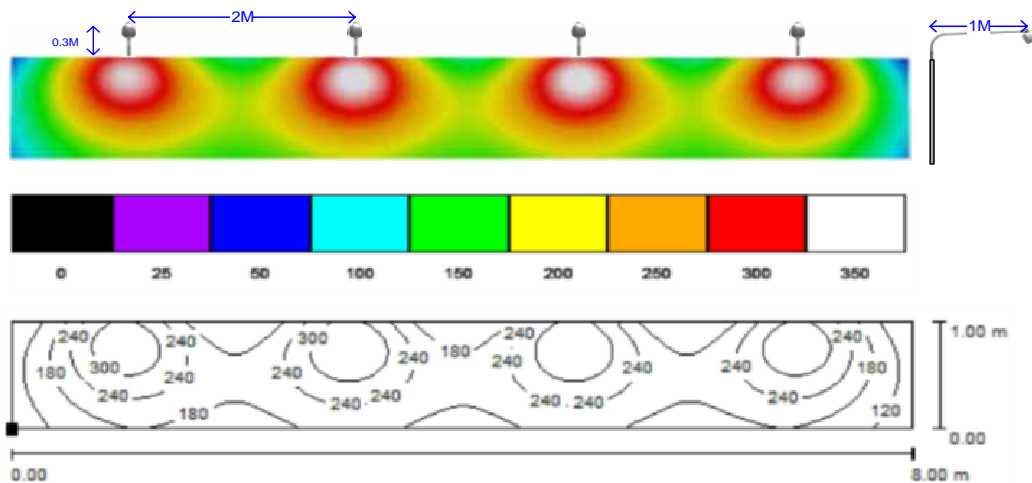
**Example 2. A 8M(L) x 1M(H) billboard lighting application**



- |                        |                                |
|------------------------|--------------------------------|
| 1). Billboard size:    | 8M(L) x 1M(H).                 |
| 2). Luminaries Q'ty:   | <b>NLB016_57W_0105</b> x 4PCS. |
| 3). Power consumption: | 74W.                           |
| 4). Luminaries pitch:  | 2 meters.                      |
| 5). Cantilever Length: | 1 meter.                       |
| 6). Light loss factor: | 0.8                            |

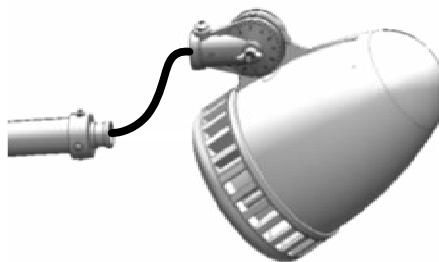
7). Illuminance:

E(avg):	220 lux.
E(max):	358 lux.
E(min):	67 lux.
Uniformity:	0.305 [ E(min) / E(avg) ].

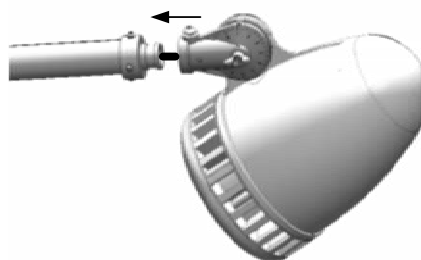


## VI. Installation guide

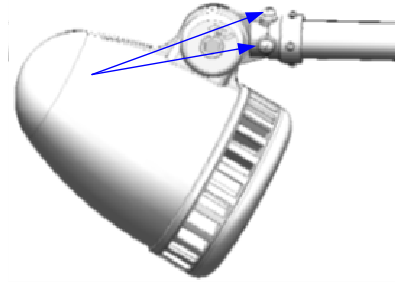
Step 1: Put the power cable into the cantilever to another side.



Step 2: Connect the luminaries to the cantilever.

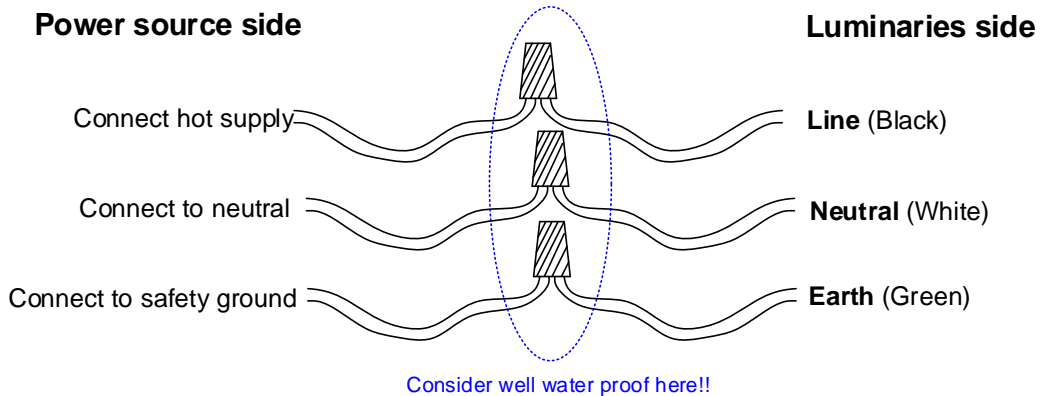
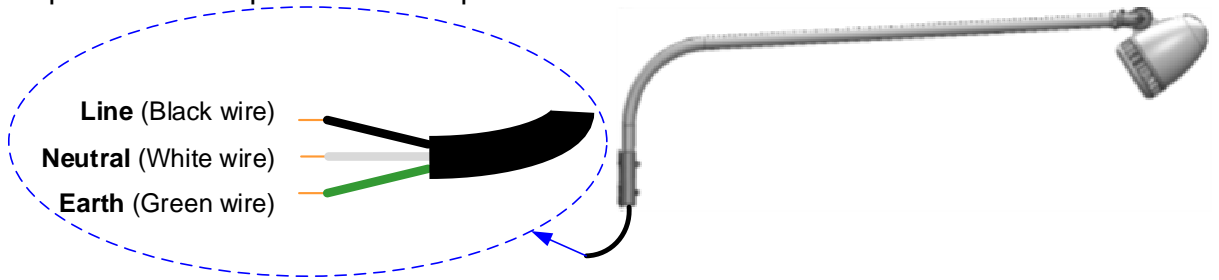


Step 3: Tighten up the two screws of luminaries, and make sure luminaries was fixed on the cantilever well.



Step 4: Rotates the luminaries to a proper angle and then tighten the knob of luminaries.

Step 5: Connects power cable to power source.





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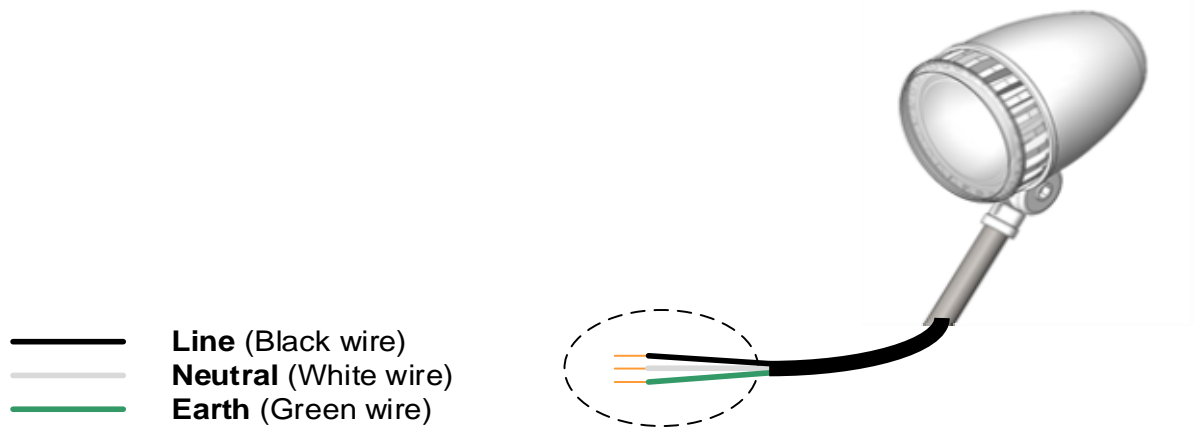
**Caution:**

1. The Earth wire must connect to safety ground to enable the surge protected function.
2. If luminaries power cable is connected to another extension power cable, the connection must be well and also water proofed.

**VII. IMPORTANT SAFEGUARDS – Read and follow all safety instructions.**

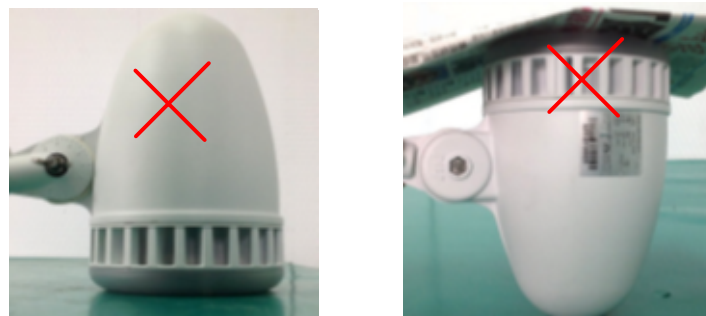
1. Before installing the luminaries or doing any maintenance, make sure to turn off the power supply at the circuit breaker or fuse box.
2. Do not handle luminaries with wet hands or when standing on wet or damp surfaces, or in water.
3. Check to make sure that all the luminaries connections have been properly made and the luminaries is grounded to avoid potential electrical shocks.
4. Product must be installed in accordance with local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician.
5. Refer to Fig 1., there are three wires of NLB018/036 power cable, to ensure the surge protect function is effective, the Earth(Green wire) must connects to the safety ground. If the Earth wire does not connect to safety ground well, then this product will caused damaged by lightning or any kind of surge voltage easily, and the warranty is not applied anymore.





**Fig 1.**

6. There is radiation heat on the light emitting surface of luminaries(Refer to Fig 2.), do not put any flammable material on the light emitting surface of luminaries or put luminaries face down on any surface when luminaries was lights up, to avoid cause fire or any other accident.



**Fig 2.**

7. Do not try to open the front cover, it will cause the water leaking and danger, and keep the front cover away from any hard material when installed or handling the luminaries.

