

## Caveled Tunnel Lighting Series

### Features

- Light source: High Power LED
- NO UV or IR light radiation
- Special batwing and asymmetrical light patterns.
- CRI typical 70
- Optimized heat management system
- 100V-240V AC input for 30W;  
100V-277V AC input for 60W
- LED power options of 30, 60W
- Power factor >95% @110VAC
- Power eff. ~85% @60W; ~80% @30W
- LED long lifetime > 50,000 hours (L<sub>70</sub>)
- IP65 for light engine & power supply unit
- Operation temperature: -30°C~+40°C
- Easily upgradeable to higher performance light engine

### SL-Caveled/100277AC (UL)

- B Type
- UL certified (E326344)



### Typical Applications

- Tunnel Lighting
- Floodlight
- Industrial Lighting
- Area Lighting
- Factory Lighting
- Parking Garage Lighting

### Housing Picture



## Coding of Product Number

SL – Caveled / 100277AC / Ph 60 B 5A (UL)

1                    2                    3                    4 5 6 7 8

- |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. <b><u>Product Series</u></b><br/>SL: Solid state lighting</p> <p>2. <b><u>Lighting Module Type</u></b><br/>Caveled: Caveled tunnel light series</p> <p>3. <b><u>Input Voltage</u></b><br/>100240AC:100~240AC, 50/60 Hz (for 30W)<br/>100277AC:100~277AC, 50/60 Hz (for 60W)</p> <p>4. <b><u>Light Engine Type</u></b><br/>Ph: SL-Phoenix<br/>Ap: SL-Apollo</p> | <p>5. <b><u>LED Power Option</u></b><br/>30: 30W<br/>60: 60W</p> <p>6. <b><u>Light Engine LED Type</u></b><br/>B: B type LED</p> <p>7. <b><u>Internal Code</u></b></p> <p>8. <b><u>Product Safety Certification</u></b><br/>(UL): UL listed</p> |
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## Product Family

Order Code	<sup>1</sup> Luminaire Power Option	Color Temperature	Light Engine Type
SL-Caveled/100240AC/Ph30B5A(UL)	38W	Typical 5000K	SL-Phoenix series
SL-Caveled/100240AC/Ap30B5A(UL)			SL-Apollo series
SL-Caveled/100277AC/Ph60B5A (UL)	70W	Typical 5000K	SL-Phoenix series
SL-Caveled/100277AC/Ap60 B5A (UL)			SL-Apollo series

Note:

The luminaire power consumption is the maximum value measured at 110VAC operating.

## Product Specification

Parameter	Description
Light Source	High Power LED
Optical Lens	PMMA Optical Lens <sup>1</sup>
Optical Design	Special Batwing and Asymmetrical Light Patterns
Correlated Color Temperature	Typical 5000K
Color Rendering Index	Typical 70
Housing	Aluminum with Anti-corrosive Metallic Lacquer
Weight	~5.2 kg (~11.5lbs) with Power Supply Unit
IP Rating	IP 65 for Light Engine& Power Supply

Note:

1. PMMA optical Lens can not be cleaned by organic or acidic solvent. Lens damage caused by organic or acidic solvent may lead to decrease of light output.

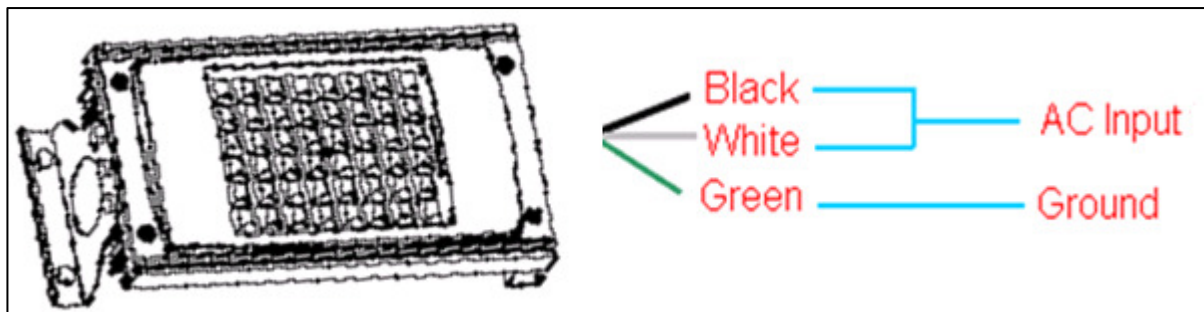
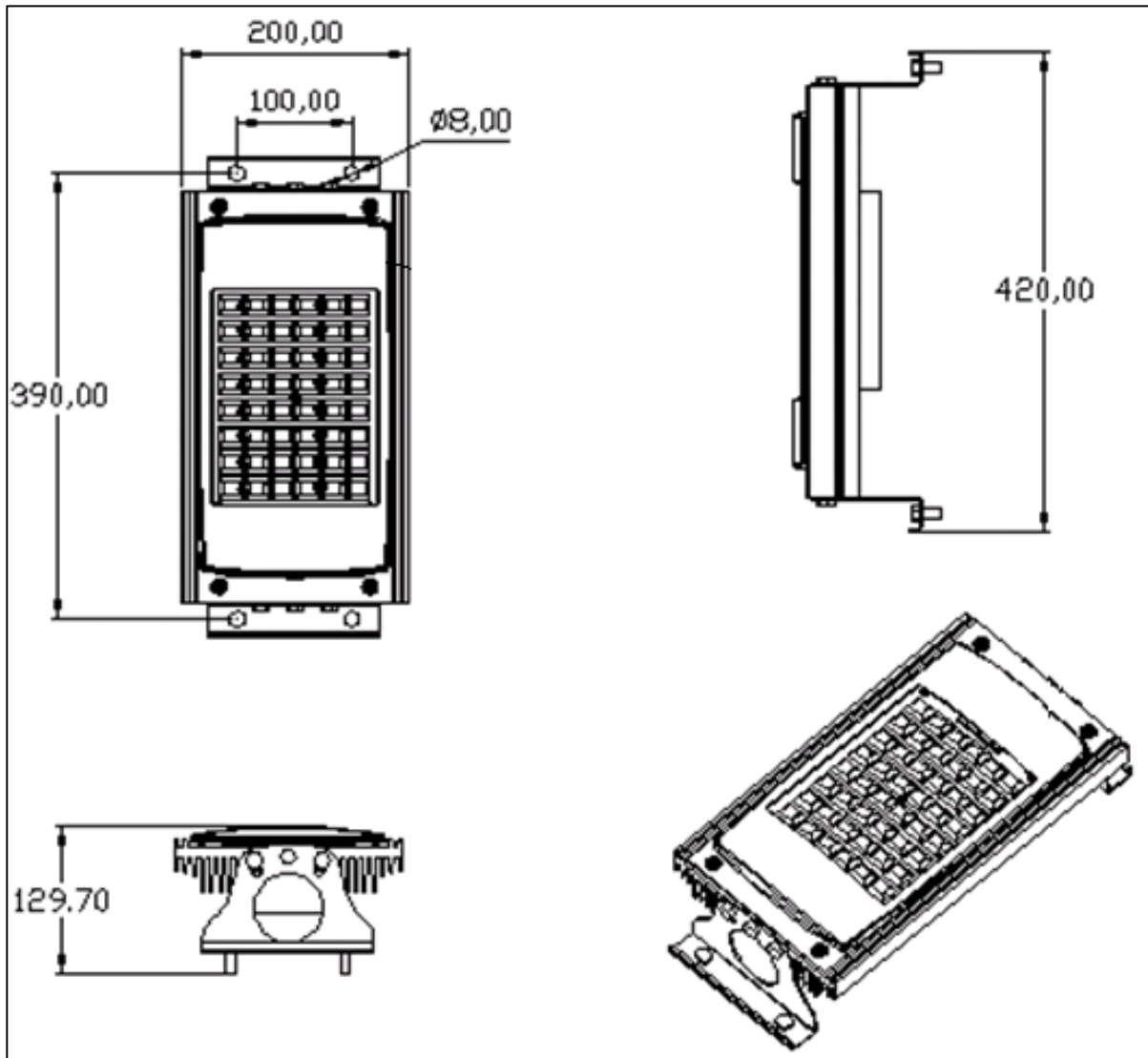
## Electro-Optical-Thermal Characteristics ( $T_{Ambient}=25^{\circ}C$ )

Parameter	Symbol	Property Unit		Unit
<sup>1</sup> Total Power Option	W	~38	~70	Watt
<sup>2</sup> Initial Luminaire Light Output (Typical 5000K)	$\phi_v$	Minimum 3000	Minimum 5600	lm
<sup>3</sup> Fixture Temperature	$T_f$	~40	~50	$^{\circ}C$
Input Voltage (AC)	VAC	100~240	100~277	V
Operating Temperature	$T_a$	-30~+40		$^{\circ}C$
Storage Temperature	$T_{stg}$	-30~+60		$^{\circ}C$

Note:

1. The luminaire power consumption is the maximum value measured at 110VAC operating.
2. Luminaire light output is measured at  $T_a=25^{\circ}C$  by following LM-79 standard and maintains a tolerance of +/- 10% on flux and power measurements..
3. The fixture temperature of SL-Caveled series is measured under good natural convection and at  $T_a=25^{\circ}C$ .

**Product Dimension: 390(L) X 200(W) X 129.7(H) mm**



Notes:

1. Dimensions are in millimeters.
2. Tolerances unless otherwise mentioned is  $\pm 2$  mm

**Everlight Caveled Tunnel Light Illumination Characteristics**

Intensity Distribution Curve Choices		
Light Engine Type	SL-Phoenix series	SL-Apollo series
Intensity Distribution Curve	<p><b>Polar Candela Distribution</b> 180° 170° 160° 150° 140° 2.100 1.750 1.400 1.050 700 350 CD: 0 350 700 1.050 1.400 1.750 2.100 VA: 0° 10° 20° 30° 40° ■ - 0° H ■ - 180° H ■ - Max Cd: 280° H ■ - 90° H ■ - 270° H</p>	<p><b>Polar Candela Distribution</b> 180° 170° 160° 150° 140° 1.500 1.250 1.000 750 500 250 CD: 0 250 500 750 1.000 1.250 1.500 VA: 0° 10° 20° 30° 40° ■ - 0° H ■ - 180° H ■ - Max Cd: 10° H ■ - 90° H ■ - 270° H ■ - 45° H</p>
Application	<p><b>TYPE II</b> Tunnel and Floodlight. Asymmetrical wide for one way tunnels.</p>	<p><b>TYPE V</b> Tunnel and Floodlight. Used generally for transition and interior zones for tunnels, and parking lots</p>
Isolux @60W	<p><b>Isolux Plot</b> 4 3 2 1 0 1 2 3 4 3 2 1 0 1 2 3 4 3 2 1 0 1 2 3 4</p>	<p><b>Isolux Plot</b> 4 3 2 1 0 1 2 3 4 3 2 1 0 1 2 3 4 3 2 1 0 1 2 3 4</p>

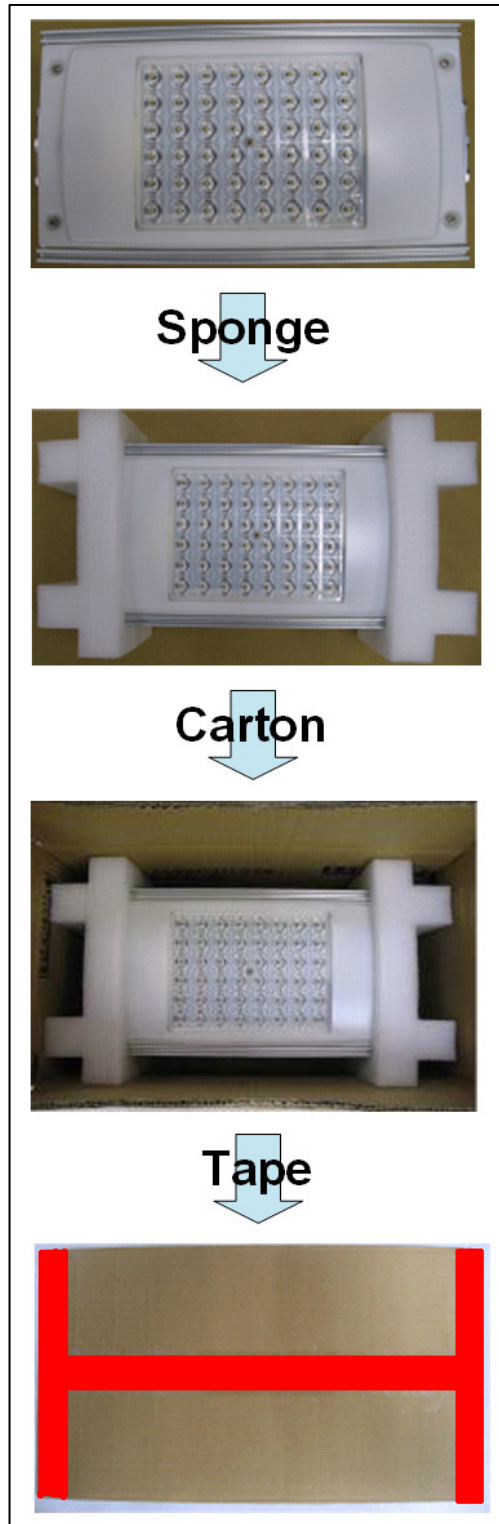
Notes:

- The iso lux plot is only a reference for light patterns.

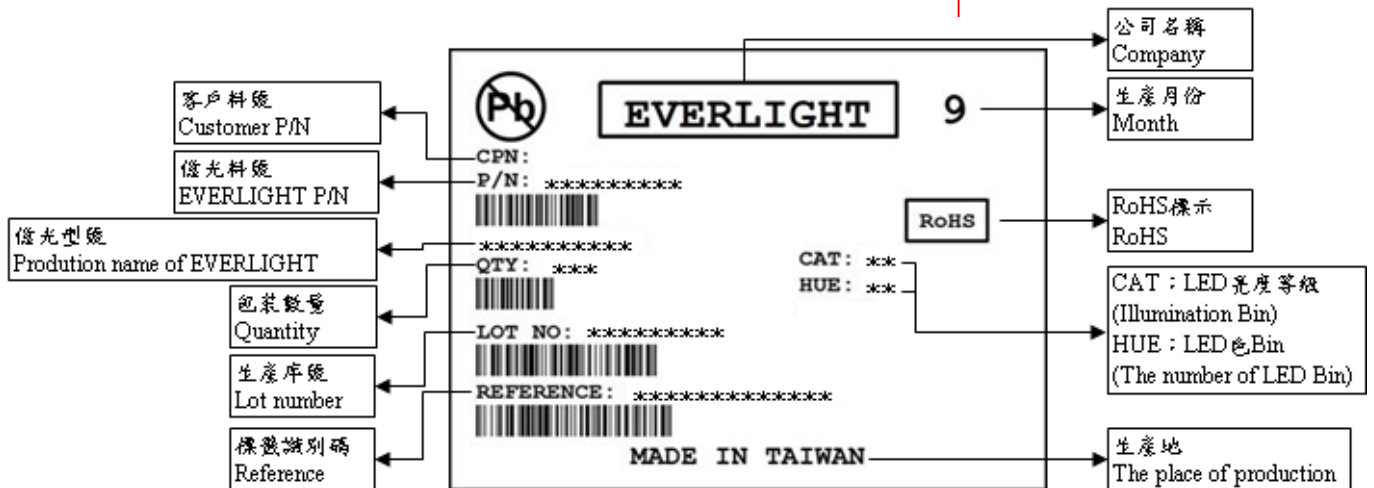
2. To get more information about lux vs. mounting height, please refer to "SL-Caveled Installation Instruction"

### Carrier Specifications

1. Carton size: 479(L) x 270(W) x 179(H) mm
2. Overall weight: ~6 Kg/~13 lbs (with packaging)



**Label Explanation**



Note:

1. The information in this document displays the current technical state. Subject to modification.
2. Before installing, please refer to the separate document, "SL-Caveled Series Installation Instruction"