HPWINNER

T6B Series Rev1.4 LED Street Light

# Applications

- Roadway lighting
  (Urban road, street, expressway...)
- Area lighting
  (City hall square, business district, Parking lot...)

# Standard Colors

Blue + White

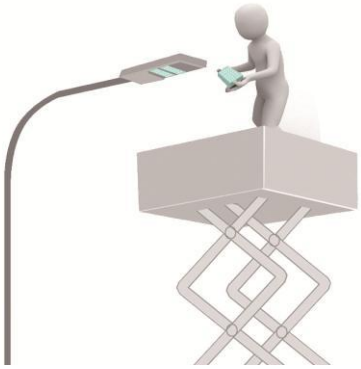
Red + White

Yellow + White

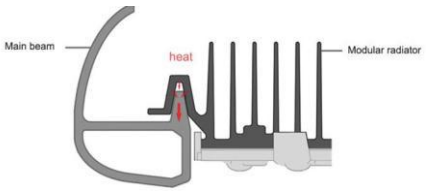
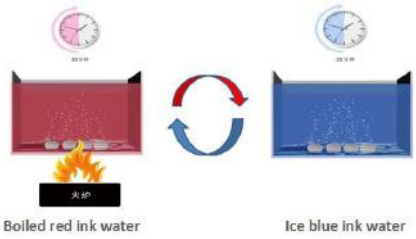
White

# Features

- Modular pluggable technology, easy tool onsite maintenance;
- Double-coupling IP68 protection, highest waterproof level;
- Honeycomb briquette burning effect and the whole structure cooling technology;
- Ergonomic lighting distribution to achieve uniform illuminating effect;
- Free modular serialization and full power range solution.



# HPWINNER's Technical Advantages

| | | |
|---|---|---|
|  |  |  |
| Air Convection Effect | Whole-structure Heat Dissipation | Tool-less Maintenance |
|  |  Extreme efficacy,best performance and compatibility<br>  Hot color targeted 6V QFN package delivering high flux<br>  The high lumen, high efficacy, multi-die single emitter committed to lowering lighting system cost |  |
| Double-coupling IP68 Protection | High-efficacy LED Light Source | Flexible Combinations of Modules |

# Electrical & Photometric

- Adopt Lumileds LEDs

| Model | Input Voltage (V) Frequency Range(Hz) | Drive Current (mA) | Power (w) | M1① | | M8 | | Power Factor | Power Efficiency | LED Brand | CCT (k) | CRI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Luminous Efficacy (lm/w) | Lumens (lm) | Luminous Efficacy (lm/w) | Lumens (lm) | | | | | |
| T6B-1 | AC100-240 50/60 | 700 | 40 | 105±5 | 4200±200 | 120±5 | 4800±200 | 0.95 | 88% | Lumileds | 3000 4000 5000 5700 | ≥70 |
| | | 860 | 50 | 100±5 | 5000±250 | 115±5 | 5750±250 | | | | | |
| | | 1050 | 60 | 95±5 | 5700±300 | 110±5 | 6600±300 | | | | | |
| T6B-2 | AC100-240 50/60 | 700 | 80 | 110±5 | 8800±400 | 125±5 | 10000±400 | 0.95 | 91% | | | |
| | | 860 | 100 | 105±5 | 10500±500 | 120±5 | 12000±500 | | | | | |
| | | 1050 | 120 | 100±5 | 12000±600 | 115±5 | 13200±600 | | | | | |
| T6B-3 | AC100-240 50/60 | 700 | 120 | 110±5 | 13200±600 | 125±5 | 15000±600 | 0.95 | 91% | | | |
| | | 860 | 150 | 105±5 | 15750±750 | 120±5 | 18000±750 | | | | | |
| | | 1050 | 180 | 100±5 | 18000±900 | 115±5 | 20700±900 | | | | | |

① For M1A modules, Luminous Efficacy of 3000K is 5% lower than other CCTs.

- Adopt Customized Chips from World-leading Supplier

| Model | Input Voltage (V) Frequency Range(Hz) | Drive Current (mA) | Power (w) | M16 | | Power Factor | Power Efficiency | LED Brand | CCT (k) | CRI |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Luminous Efficacy (lm/w) | Lumens (lm) | | | | | |
| T6B-1 | AC100-240 50/60 | 600 (9P2S) | 30 | 150±8 | 4500±240 | 0.95 | 88% | Customized Chips from World-leading Supplier | 3000 4000 5000 5700 | ≥70 |
| | | 600 (14P2S) | 30 | 158±8 | 4740±240 | | | | | |
| | | 800 (9P2S) | 40 | 145±8 | 5800±320 | | | | | |
| | | 800 (14P2S) | 40 | 153±8 | 6120±320 | | | | | |
| | | 1000 (9P2S) | 50 | 138±8 | 6900±400 | | | | | |
| | | 1000 (14P2S) | 50 | 147±8 | 7350±400 | | | | | |
| | | 1200 (9P2S) | 60 | 130±8 | 7800±480 | | | | | |
| | | 1200 (14P2S) | 60 | 140±8 | 8400±480 | | | | | |
| T6B-2 | AC100-240 50/60 | 800 (9P2S) | 80 | 150±8 | 12000±640 | 0.95 | 91% | | | |
| | | 800 (14P2S) | 80 | 158±8 | 12640±640 | | | | | |
| | | 1000 (9P2S) | 100 | 143±8 | 14300±800 | | | | | |
| | | 1000 (14P2S) | 100 | 152±8 | 15200±800 | | | | | |
| | | 1200 (9P2S) | 120 | 135±8 | 16200±960 | | | | | |
| | | 1200 (14P2S) | 120 | 145±8 | 17400±960 | | | | | |
| T6B-3 | AC100-240 50/60 | 800 (9P2S) | 120 | 150±8 | 18000±960 | 0.95 | 91% | | | |
| | | 800 (14P2S) | 120 | 158±8 | 18960±960 | | | | | |
| | | 1000 (9P2S) | 150 | 143±8 | 21450±1200 | | | | | |
| | | 1000 (14P2S) | 150 | 152±8 | 22800±1200 | | | | | |
| | | 1200 (9P2S) | 180 | 135±8 | 24300±1440 | | | | | |
| | | 1200 (14P2S) | 180 | 145±8 | 26100±1440 | | | | | |

# Working environment & Packing

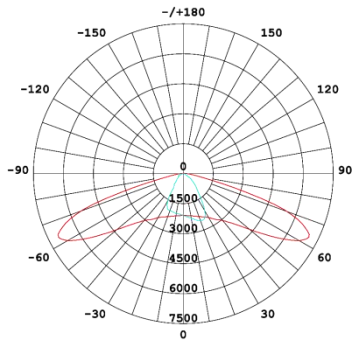
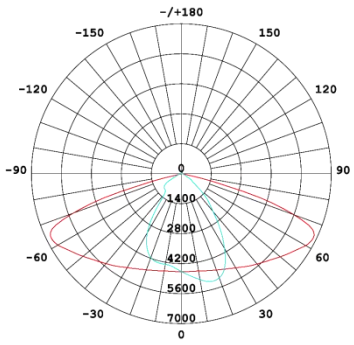
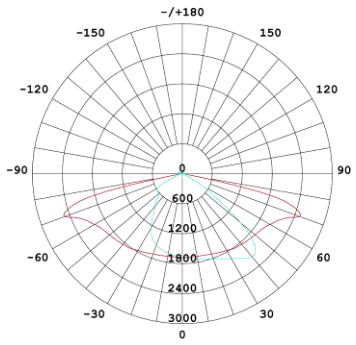
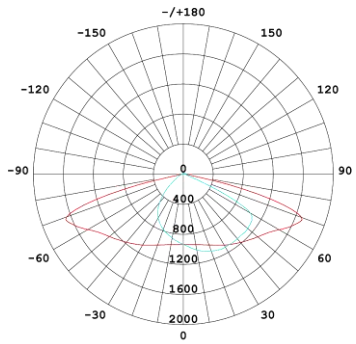
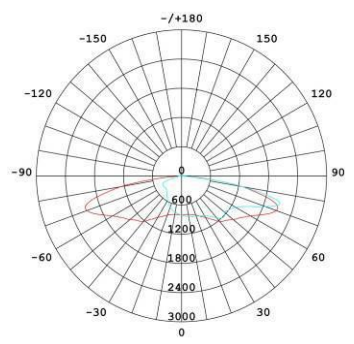
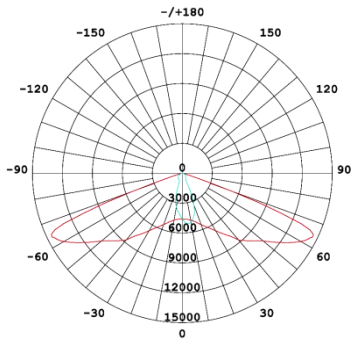
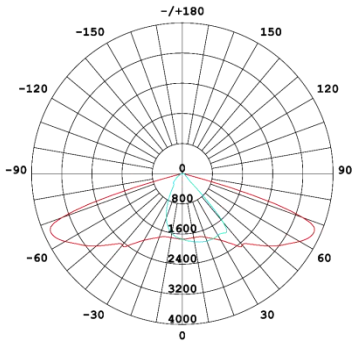
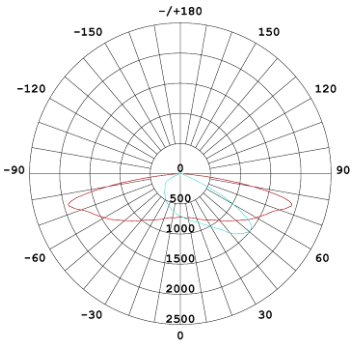
| Model | Working Environment | Storage Temperature | IP Rating | Surge Protection | LED Life Span (h) | Housing Material | Pole Diameter (mm) | Product Dimensions (mm) | Carton Size (mm) | N.W (kg) | G.W (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T6B-1 | -40℃~+50℃, 10%~90%RH. | -40℃~+50℃ | Whole Fixture IP67 | ≥10KV | >50,000 | Metal | 60±3 | 725*335*90 | 860*435*180 | 5.1 | 6.4 |
| T6B-2 | | | | | | | | | | 6.3 | 7.6 |
| T6B-3 | | | | | | | | | | 6.9 | 8.2 |

Note: Above data of weight are all typical values.

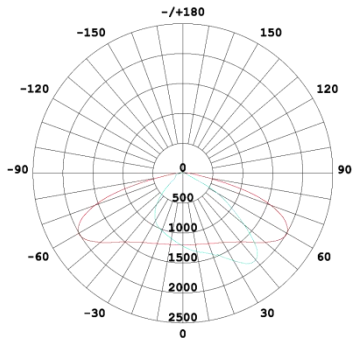
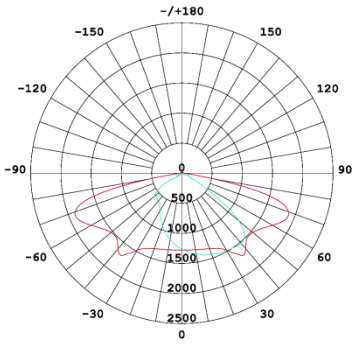
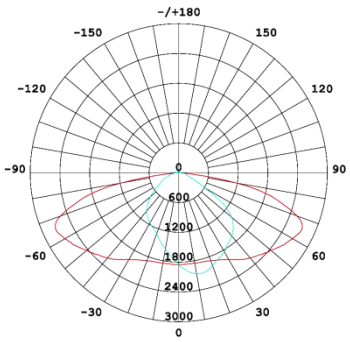
# Warranty

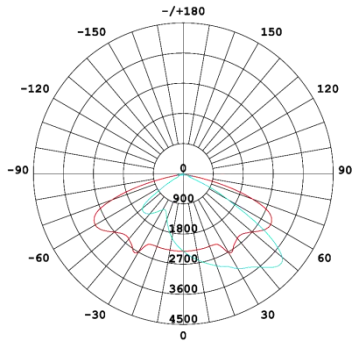
5-year limited warranty is standard on luminaire and components.

# Light Distributions

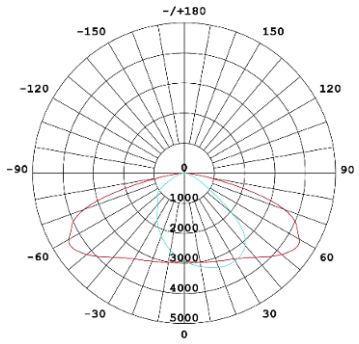
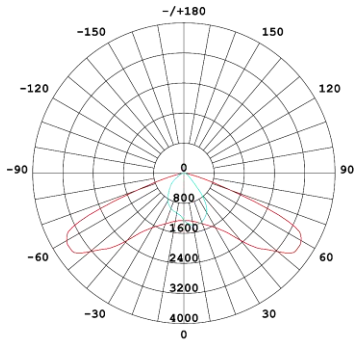
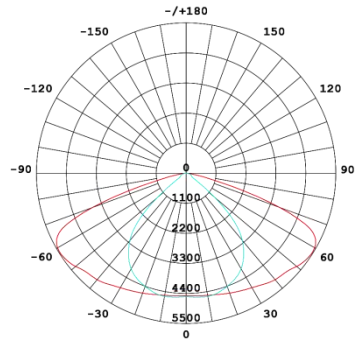
| T1S3501 | T1S3100 | T2M3702 |
|---|---|---|
| IESNA Type I Short | IESNA Type I Short | IESNA Type II Medium |
|  |  |  |
| **T3M2701** | **T4M5703** | **T1S1810** |
| IESNA Type III Medium | IESNA Type IV Short | IESNA Type I Short |
|  |  |  |
| **T1S1501** | **T3M3910** | |
| IESNA Type I Short | IESNA Type III Medium | |
|  |  | |

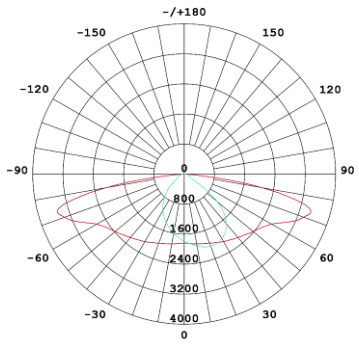
# Light Distributions

| T2S5321 | T3M1321 | T2S2321 |
|---|---|---|
| IESNA Type II Short | IESNA Type III Medium | IESNA Type II Short |
|  |  |  |

| T2S1324 |
|---|
| IESNA Type II Short |
|  |

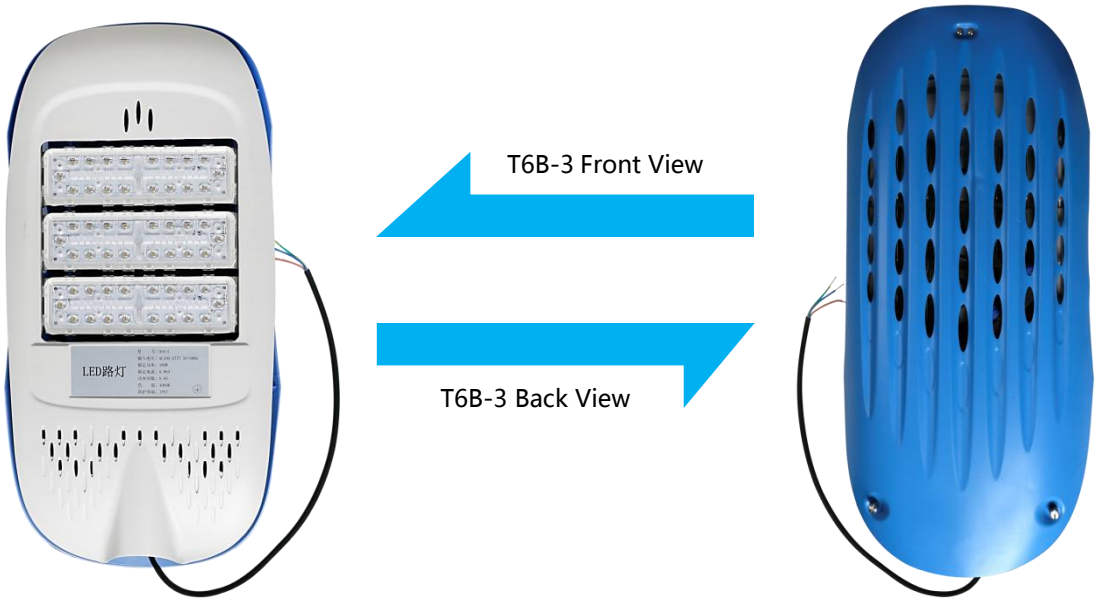
# Light Distributions

| T2S3106 | T1S1107 | T2S2105 |
|---|---|---|
| IESNA Type II Short | IESNA Type I Short | IESNA Type II Short |
|  |  |  |

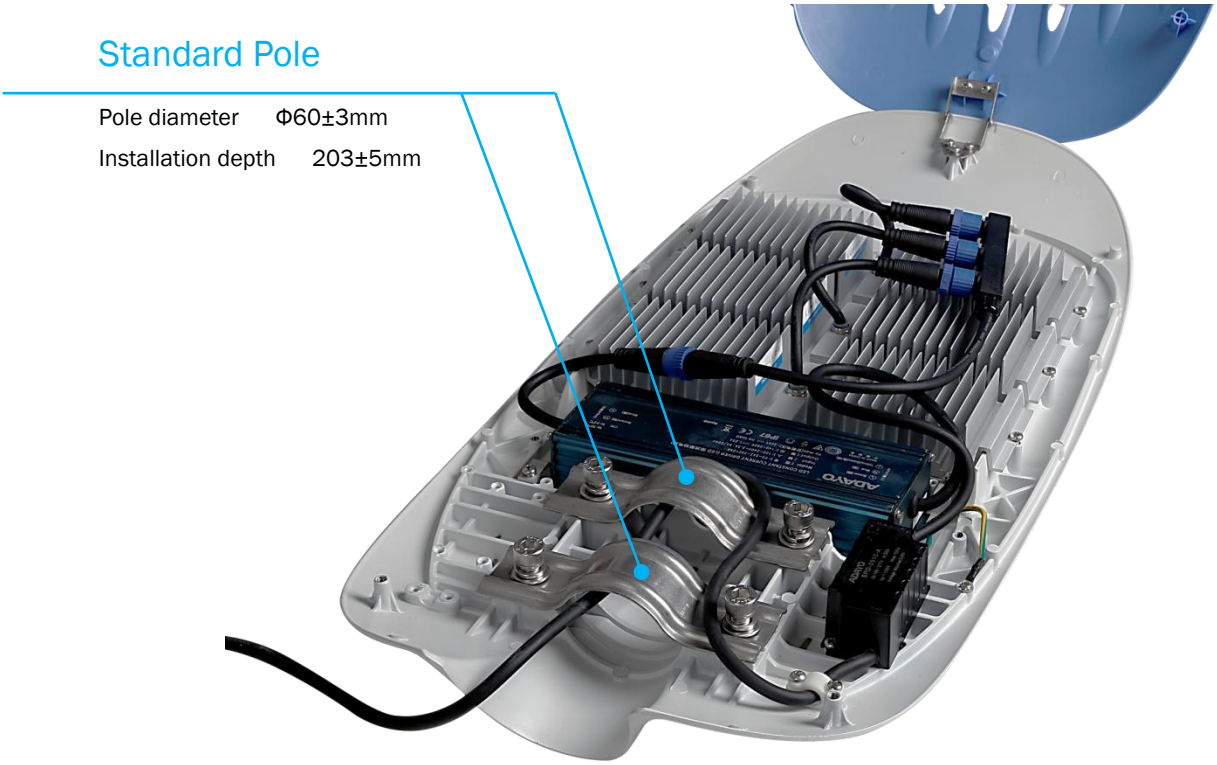
| T2M2109 |
|---|
| IESNA Type II Medium |
|  |

# Design Features

- External Design Features

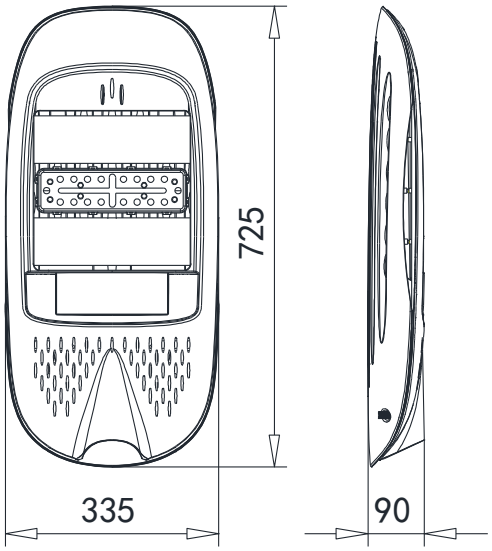



- Internal Design Features

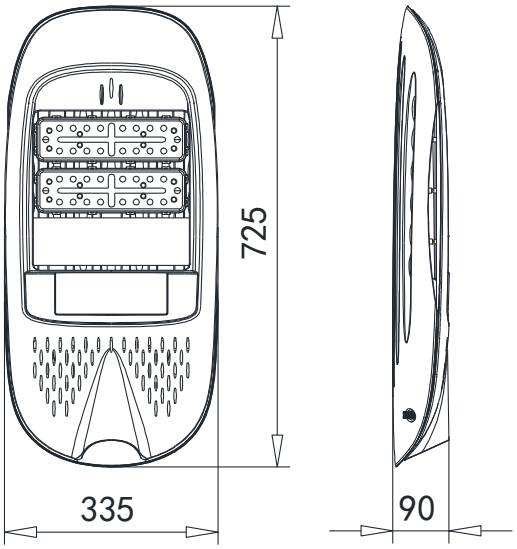


# Dimensions

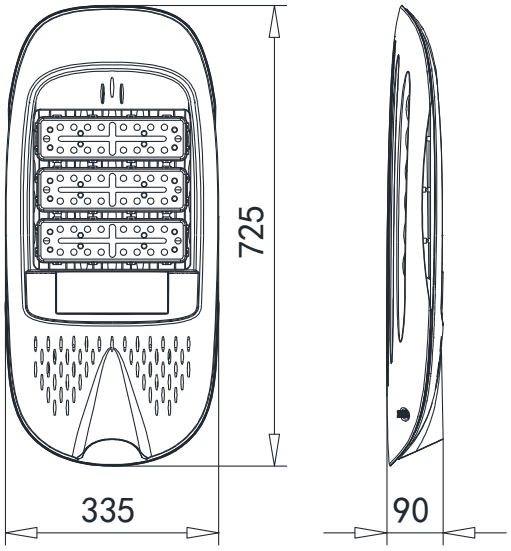
- T6B-1



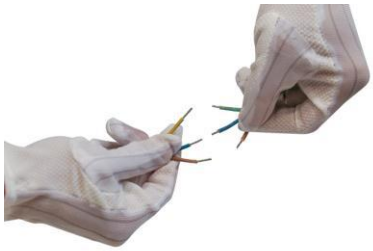

- T6B-2



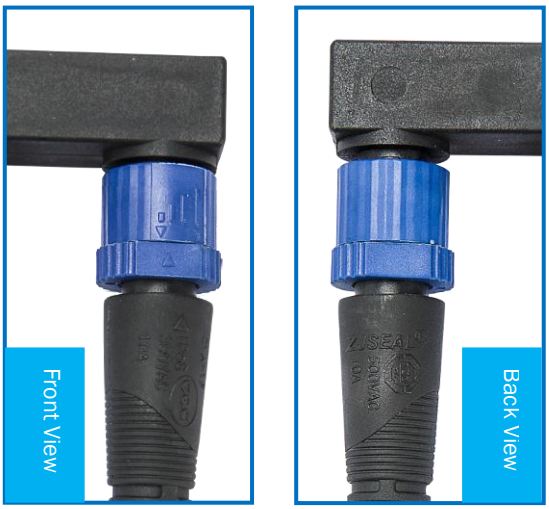

- T6B-3

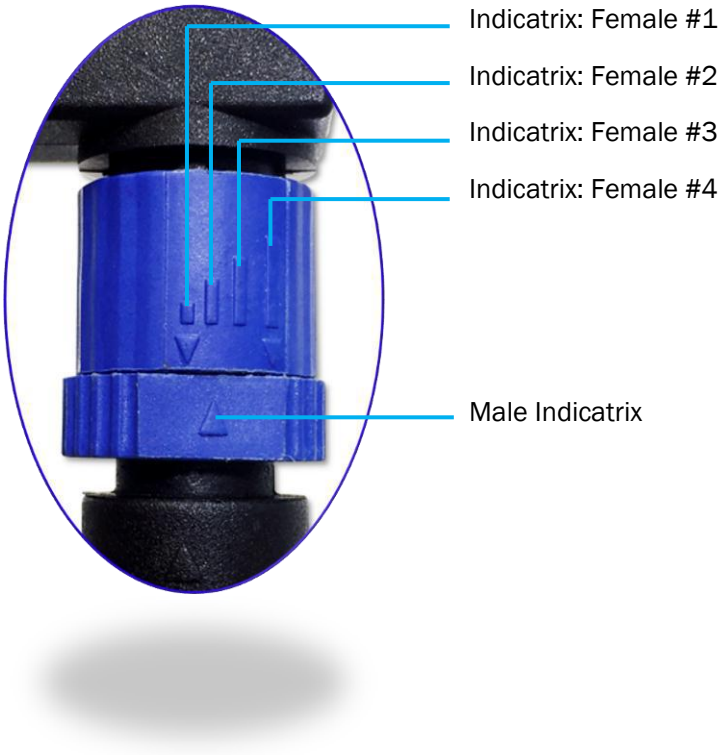


# Installation

| | | |
|---|---|---|
|  |  |  |
| 1. Unscrew the hand screws and open the cover. | 2. Loosen the four M10×30 hexagon socket screws on the mounting bracket. | 3. Connect the wires to the AC input. Make sure the wiring correct and grounding reliable. |
|  |  | |
| 4. Infix the luminaries onto a pole. Tighten up the four M10 X 30 screws. | 5. Close the cover and tighten up the screws on it. Installation finished. | |

# Connectors Operation Guide



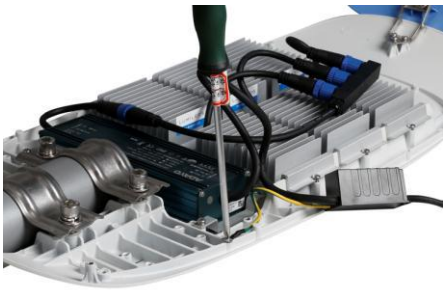

Spin the male terminal clockwise. When the male indicatrix points between indicatrix female #2 and #3, and the gap between male and female terminals is extremely small, the connectors are well connected; otherwise, there will be risks in its waterproof performance.

When the gap between male and female terminals is extremely small, if any looseness can be sensed, please spin the male terminal clockwise until tight.

# Maintenance

## Driver & Electrical Parts

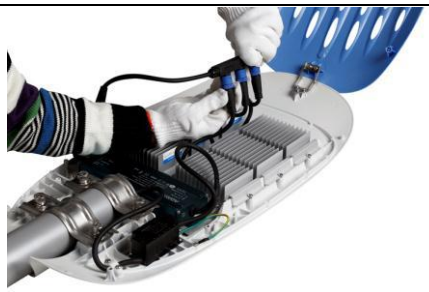
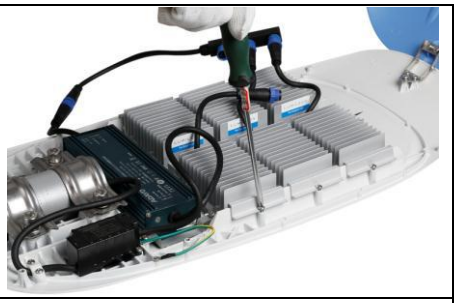
Preparatory work: Disconnect the electric supply and put the lamp on the worktable.

| | | |
|---|---|---|
|  |  |  |
| 1. Unscrew the hand screws and open the cover. | 2. Disconnect the driver from the wires of AC input. | 3. Unscrew the two M4x10 cross recessed pan head screws on the cable clip. |
|  |  |  |
| 4. Unscrew the two M4x6 cross recessed pan head screws on the end of surge protector. | 5. Unscrew the M3x6 screw at the end of grounding wire of surge protector. | 6. Disconnect the driver from the connector to modules. |
|  |  |  |
| 4. Unscrew the four M4x10 cross recessed pan head screws at the ends of the failed driver. | 5. Replace the failed driver with a new one. | 6. Tighten up all the screws and the connector. Re-connect to the wires of AC input.<br>Maintenance finished. |

# Maintenance

## Module

Preparatory work: Disconnect the electric supply and put the lamp on the worktable.

| | | |
|---|---|---|
|  |  |  |
| 1. Unscrew the hand screws and open the cover. | 2. Disconnect the failed module from the connector. | 3. Unscrew the four M4x10 screws at the ends of the failed module |
|  |  | |
| 4. Replace the failed module with a new one. | 5. Connect and tighten up each part back step by step. Maintenance finished. | |

# Ordering Information

**Example:** T6B-2-100GY-M1L3501-740-IN

| **Ordering Information** | T 6B 2 - 100 GY - M1 L 3501 - 7 40 - IN |
|---|---|
| | 1 2 3 4 5 6 7 8 9 10 11 |
| 1. Luminary Type | T: Street light TS: Tunnel light TF: High bay light FL: Flood light GL: Garden light |
| 2. Luminary Series | 1A 1B 1D 1F 2A 2C 3A 3B ..... |
| 3. Module Qty | N: Non-modular luminary 1: 1 module 2: 2 modules 3: 3 modules 4: 4 modules ..... |
| 4. System Power | 10: 10W 20: 20W 30: 30W 40: 40W 50: 50W ..... |
| 5. Housing Color | BK: Black WH: White GY: Grey SR: Silver BU: Blue<br>BUWH: Blue top & White base BUGY: Blue top & Grey base OTH: Other |
| 6. Module Series | Blank: Non-modular luminary M1: M1 module M2: M2 module M5: M5 module ..... |
| 7. LED Brand | X: Customized LEDs L: LUMILEDS C: CREE O: OSRAM N: NICHIA S: SAMSUNG |
| 8. Lens Code | 3501 3100 3702 3910 2701 5703 3040 1812 1412 ..... |
| 9. CRI | 6: ≥60 7: ≥70 8: ≥80 9: ≥90 OTH: Other |
| 10. CCT | 30: 3000K 40: 4000K 50: 5000K 57: 5700K |
| 11. Driver Brand | MO: MOSO MW: MEAN WELL PH: PHILIPS IN: INVENTRONICS AD: ADAYO OTH: Other |

# Revision History

| Change Date | Rev. | Description of Change | | |
|---|---|---|---|---|
| | | Item | From | To |
| 2016/01/29 | Rev1.0 | Datasheets Release | / | / |
| 2016/04/06 | Rev1.1 | Lighting Distributions | 1513 | 3501 |
| 2016/07/06 | Rev1.2 | Lighting Distributions of 2201 & 1324 | | Added |
| | | Carton Size | 800*395*165 | 860*435*180 |
| 2017/01/04 | Rev1.3 | Lighting Distributions of M16 | | Added |
| 2017/05/18 | Rev1.4 | Luminous Efficacy of M8 | | Updated |