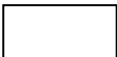


## Application

- Garden/Park/Courtyard lighting
- Street/School/Residential area lighting

## Standard Color

|                                                                                   |       |
|-----------------------------------------------------------------------------------|-------|
|  | White |
|  | Gray  |
|  | Black |

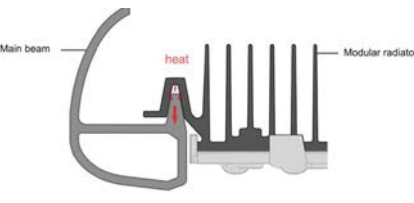
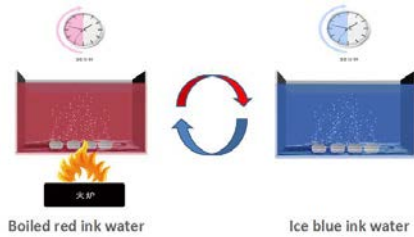


## Features

- Honeycomb briquette burning effect and the whole structure cooling technology;
- Double-coupling IP68 protection, highest waterproof level;
- Modular pluggable technology, easy tool onsite maintenance;
- Intelligent constant current driving technology, long life span;
- All metal structure, built-in driver, easy for maintenance;
- Ergonomic light distribution to achieve uniform illuminating effect.



## HPWINNER's Technical Advantages

|                                                                                    |                                                                                                                                                                                                                                                                                                           |                                                                                     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |                                                                                                                                                                                                                         |  |
| <p>Air Convection Effect</p>                                                       | <p>Whole-structure Heat Dissipation</p>                                                                                                                                                                                                                                                                   | <p>Tool-less Maintenance</p>                                                        |
|  | <p><b>LUMILEDS</b></p> <p><b>LUXEON TX</b></p> <p>Extreme efficacy and best performance with compatibility to LUXEON T</p> <p><b>LUXEON 3030 2D</b></p> <p>Hot color targeted 6V QFN package delivering high flux</p>  |  |
| <p>Double-coupling IP68 Protection</p>                                             | <p>High-efficacy LED Light Source</p>                                                                                                                                                                                                                                                                     | <p>Flexible Combinations of Modules</p>                                             |

## Electrical & Photometric

- Adopt Lumileds LEDs

| Model | Input Voltage (V)<br>Frequency<br>Range (Hz) | Drive<br>Current<br>(mA) | Power<br>(w) | M1 <sup>①</sup>                |                | M8                             |                | Power<br>Factor | Power<br>Efficiency | LED<br>Brand | CCT<br>(k)   | CRI |
|-------|----------------------------------------------|--------------------------|--------------|--------------------------------|----------------|--------------------------------|----------------|-----------------|---------------------|--------------|--------------|-----|
|       |                                              |                          |              | Luminous<br>Efficacy<br>(lm/w) | Lumens<br>(lm) | Luminous<br>Efficacy<br>(lm/w) | Lumens<br>(lm) |                 |                     |              |              |     |
| GL1A  | AC100-240<br>50/60                           | 700                      | 40           | 105±5                          | 4200±200       | 120±5                          | 4800±200       | 0.95            | 88%                 | Lumileds     | 3000         | ≥70 |
|       |                                              | 860                      | 50           | 100±5                          | 5000±250       | 115±5                          | 5750±250       |                 |                     |              | 4000         |     |
|       |                                              | 1050                     | 60           | 95±5                           | 5700±300       | 110±5                          | 6600±300       |                 |                     |              | 5000<br>5700 |     |

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

- Adopt Customized Chips from World-leading Supplier

| Model | Input Voltage (V)<br>Frequency Range<br>(Hz) | Drive Current<br>(mA) | Power<br>(w) | M16                            |                | Power<br>Factor | Power<br>Efficiency | LED Brand                                             | CCT<br>(k)                   | CRI |
|-------|----------------------------------------------|-----------------------|--------------|--------------------------------|----------------|-----------------|---------------------|-------------------------------------------------------|------------------------------|-----|
|       |                                              |                       |              | Luminous<br>Efficacy<br>(lm/w) | Lumens<br>(lm) |                 |                     |                                                       |                              |     |
| GL1A  | AC100-240<br>50/60                           | 600 (9P2S)            | 30           | 150±8                          | 4500±240       | 0.95            | 88%                 | Customized<br>Chips from<br>World-leading<br>Supplier | 3000<br>4000<br>5000<br>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       |                 |                     |                                                       |                              |     |

## Working environment & Packing

| Model  | Product<br>Dimensions<br>(mm) | Outer Carton<br>Size<br>(mm) | N.W<br>(kg) | G.W<br>(kg) | Working<br>Environment   | Storage<br>Temperature | IP Rating                                  | LED Life Span<br>(h) | Housing<br>Material |
|--------|-------------------------------|------------------------------|-------------|-------------|--------------------------|------------------------|--------------------------------------------|----------------------|---------------------|
| GL1A-1 | 450*440*495                   | 625*585*205 <sup>①</sup>     | 5.8         | 8.3         | -40℃~+50℃,<br>10%~90%RH. | -40℃~+50℃              | LED Module<br>IP68<br>Power Supply<br>IP67 | >50,000              | Metal               |

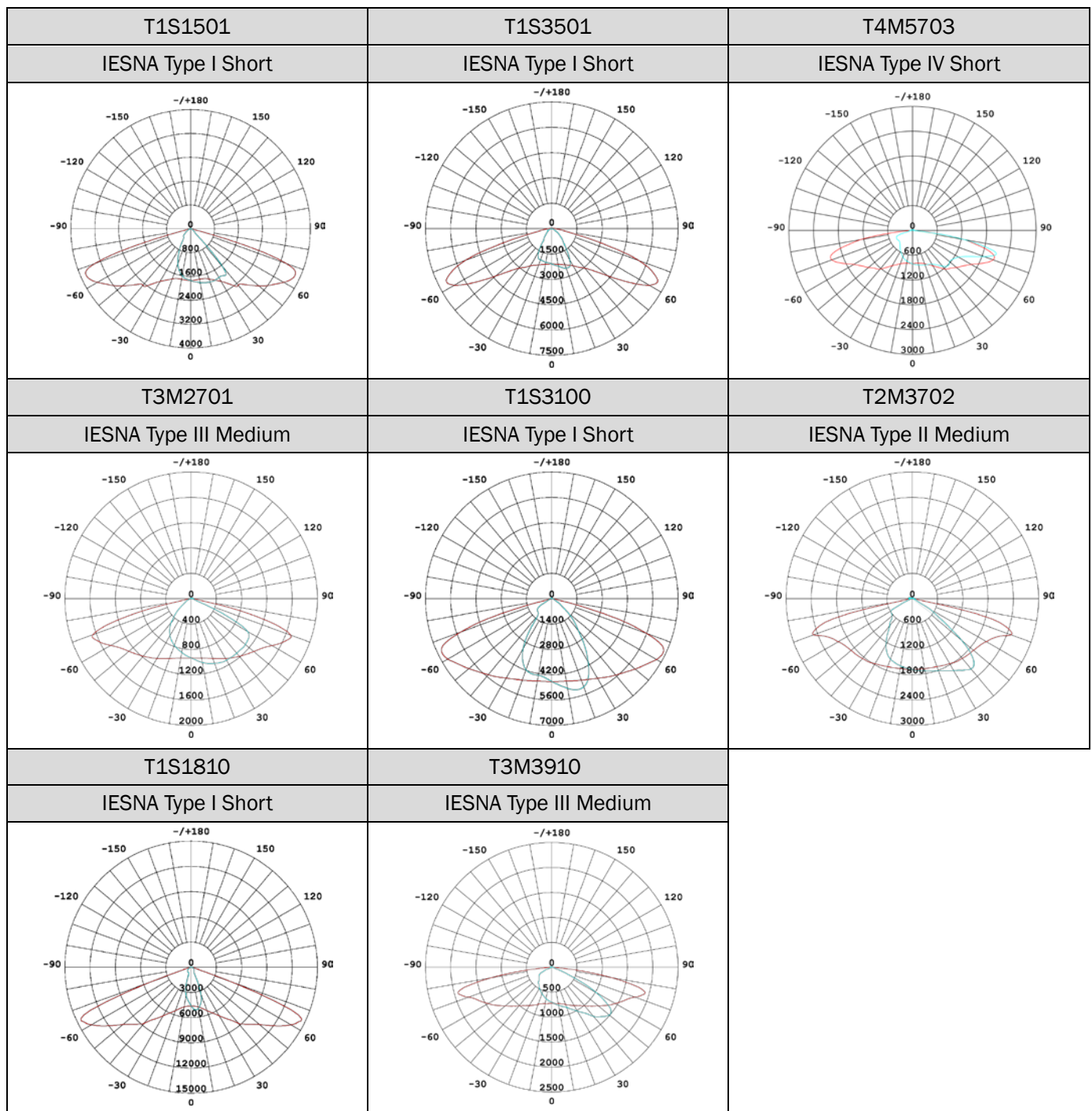
① This size are measured based on arm-unassembled packaging

## Warranty

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

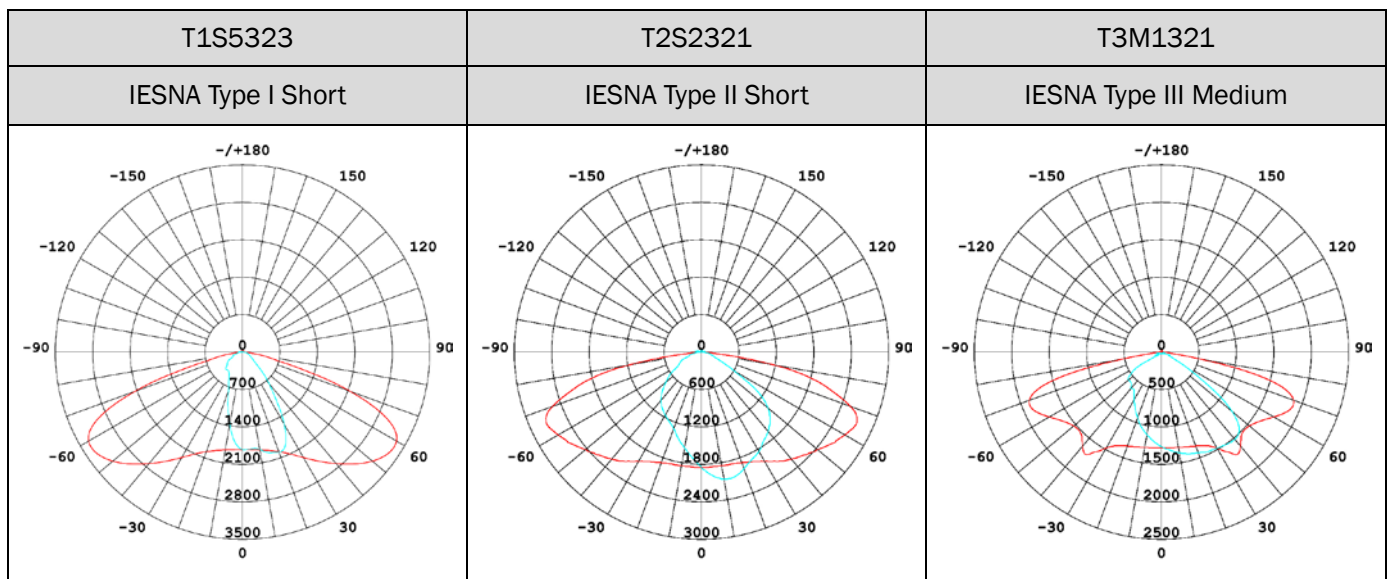
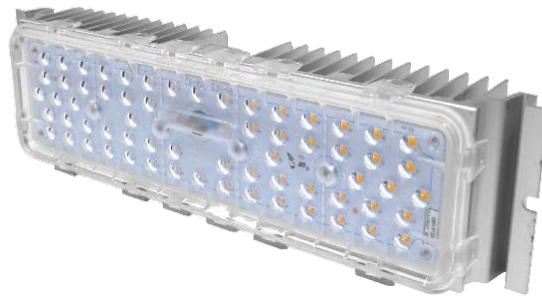
## Light Distributions

- M1 Series Module



## Light Distributions

- M8 Series Module



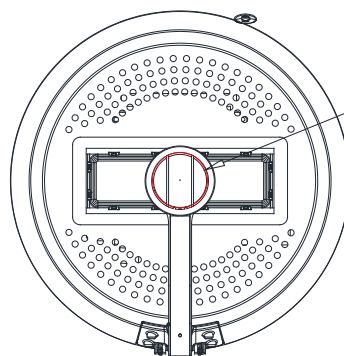
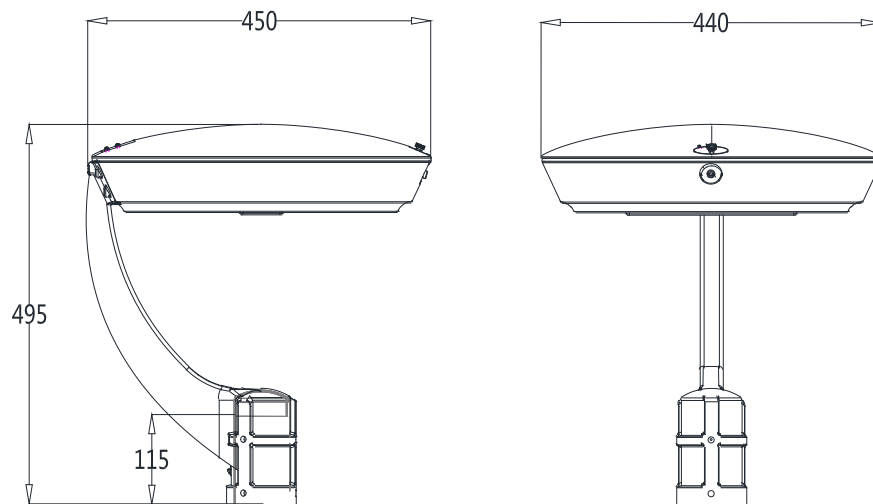
## Light Distributions

- M16 Series Module



| T2S3106              | T1S1107            | T2S2105             |
|----------------------|--------------------|---------------------|
| IESNA Type II Short  | IESNA Type I Short | IESNA Type II Short |
|                      |                    |                     |
| T2M2109              |                    |                     |
| IESNA Type II Medium |                    |                     |
|                      |                    |                     |

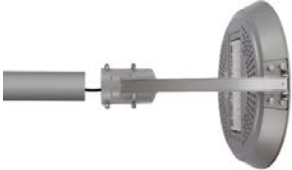
## Dimensions



Mounting Diameter  $\Phi 60-70\text{mm}$

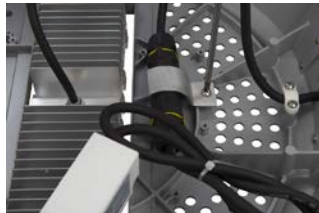
Mounting Depth 112-122mm

## Installation

|                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| 1. Put the wire through the bent arm.                                             | 2. Fix the bent arm to the luminaire with four M6x20 screws.                      | 3. Put the wire through the light pole.                                            | 4. Connect to the AC power cable (make sure it sufficiently grounded).              |
|  |                                                                                   |                                                                                    |                                                                                     |
| 5. Tighten up six M8x35 screws on the mounting base. Installation finished.       |                                                                                   |                                                                                    |                                                                                     |

## Maintenance

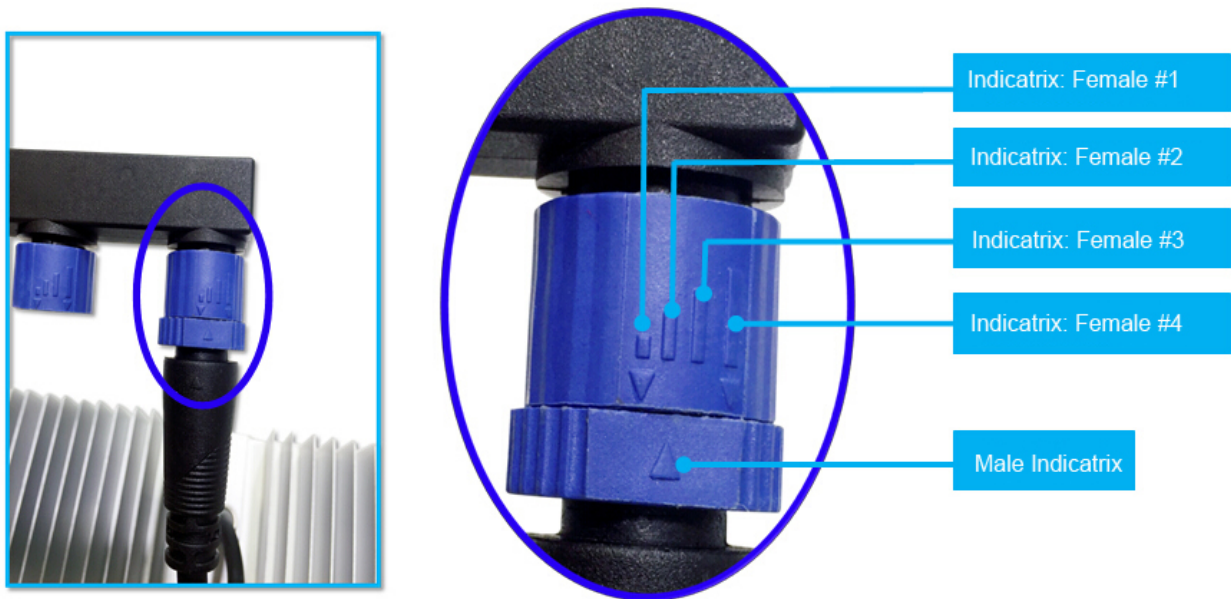
### Driver & Electrical Parts

|                                                                                     |                                                                                    |                                                                                          |                                                                                       |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |   |        |    |
| 1. Manually unscrew the screw on the top cover.                                     | 2. Disconnect the driver from the connector to modules.                            | 3. Unscrew the two M4x6 cross recessed pan head screws at the ends of the failed driver. | 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. Unscrew the M4x6 cross recessed pan head screws on the clip.                    | 7. Twist Off the two-way cable connector and unscrew the M4x6 screws inside.             | 8. Replace the failed driver set with a new one.                                      |
|  | 9. Connect and tighten up each part back step by step. Maintenance finished.       |                                                                                          |                                                                                       |

## Module

|                                                                                     |                                                                                   |                                                                                    |                                                                                     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    |  |  |  |
| <p>1. Manually unscrew the screw on the top cover.</p>                              | <p>2. Disconnect the module from the connector to driver.</p>                     | <p>3. Unscrew the two M4x10 screws on the end of failed module.</p>                | <p>4. Replace the failed module set with a new one.</p>                             |
|    |                                                                                   |                                                                                    |                                                                                     |
| <p>5. Connect and tighten up each part back step by step. Maintenance finished.</p> |                                                                                   |                                                                                    |                                                                                     |

## 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.

### Ordering Information

Example: GL1AS-1-60-GY-M1L-3501-7-40-IN

| Ordering Information | GL 1A 1 - 60 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            |                      |                           |
|                      | 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 |                           |

\*Ordering information is for reference only. Some product configurations are not available. Please consult Specifications for specific product availability and for further details.