



T85A



T85E



## APPLICATIONS

- Roadway lighting (Urban roads, residential areas, overpasses...)
- Public areas lighting (Theme parks, squares, parking lots...)

## SPECIFICATION

|   |                            |
|---|----------------------------|
| <b>Input Voltage:</b>                       | 100 ~ 240Vac               |
| <b>Input Frequency:</b>                     | 50/60Hz                    |
| <b>Power Factor (PF):</b>                   | 0.95                       |
| <b>Surge Protection Level:</b>              | 10kV line-earth            |
| <b>Operating Environment:</b>               | -40°C~ +50°C, 10% ~ 90% RH |
| <b>Colour Temperature (CCT):</b>            | 3000K, 4000K, 5000K, 5700K |
| <b>Colour Rendering Index (CRI):</b>        | ≥70                        |
| <b>Housing:</b>                             | Die-cast Aluminium         |
| <b>IP Rating of LED Light Engine:</b>       | IP68                       |
| <b>IP Rating of Electrical Compartment:</b> | IP66                       |
| <b>Model</b>                                | T85A, T85E                 |
| <b>Impact Protection level</b>              | IK09, IK08                 |
| <b>Warranty:</b>                            | 5 Years Limited            |

## FEATURES

### Construction

- Die-cast aluminum housing.
- Latches provide easy, tool-less access to the electrical compartment.
- Unique patented IP68 (highest protection level) LED light engines.
- IP66 rated engine compartment sealed with tempered glass.

### Distribution

- Ergonomic and dedicated lighting distributions are available for various roadway applications.

### Control

- Optional NEMA receptacle & photocell/shorting cap.

## PHOTOS



## FINISHING COLORS

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

### ORDERING INFORMATION

Example: T85A-N1-60-BA-24-2210-7040-CM-MO-WH

| Luminary Type |                 | Module Qty. |                          | System Power |       | LEDs Type |               | Cable Type |               | Qty. of LEDs |               |    |       |
|---------------|-----------------|-------------|--------------------------|--------------|-------|-----------|---------------|------------|---------------|--------------|---------------|----|-------|
| T             | Street light    | N1          | 1pcs Integral LED module | 40           | 40W   | B         | 5050          | A          | CCC+VDE       | 24           | 24pcs         |    |       |
| 85A           | 85A series      |             |                          | 50           | 50W   | C         | 3030          | C          | PSE           | 63           | 63pcs         |    |       |
|               |                 |             |                          | 60           | 60W   |           |               | H          | UL            |              |               |    |       |
|               |                 |             |                          |              |       |           |               | X          | OTHER         |              |               |    |       |
|               |                 |             |                          |              |       |           |               |            |               |              |               |    |       |
| Lens Code     |                 |             | CRI                      |              | CCT   |           | Brand of LEDs |            | Driver Brand  |              | Housing Color |    |       |
| 2240          | Type III Medium | 2213        | Type I Short             | 60           | Ra≥60 | 30        | 3000K         | LU         | LUMILEDS      | IN           | INVENTRONICS  | BK | Black |
| 2219          | Type II Medium  | 1396        | Type II Short            | 70           | Ra≥70 | 40        | 4000K         | LN         | LUMINUS       | MO           | MOSO          | WH | White |
| 2210          | Type II Short   | 2397        | Type III Medium          | 80           | Ra≥80 | 50        | 5000K         | CM         | CUSTOMIZATION | XX           | OTHER         | BU | Blue  |
|               |                 |             |                          | 90           | Ra≥90 | 57        | 5700K         | XX         | OTHER         |              |               | GY | Gray  |
| 5050 LEDs     |                 | 3030 LEDs   |                          |              |       |           |               |            |               |              |               |    |       |

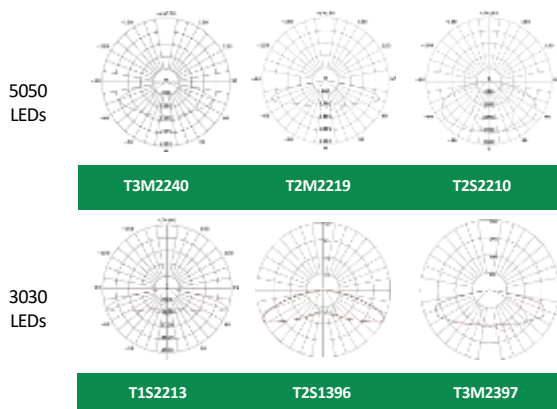
### PERFORMANCE

| Model | Power (W) | 5050 LEDs       |             | 3030 LEDs       |             |
|-------|-----------|-----------------|-------------|-----------------|-------------|
|       |           | Efficacy (lm/W) | Lumens (lm) | Efficacy (lm/W) | Lumens (lm) |
| T85A  | 40        | 145             | 5,800       | 125             | 5,000       |
|       | 50        | 140             | 7,000       | 120             | 6,000       |
|       | 60        | 135             | 8,100       | 115             | 6,900       |

\*Above values are calculated based on the product with CCT over 3000K, values of 3000K are 5% lower than above values.

\*Values shown are subject to ±5%~±8% tolerance.

### DISTRIBUTIONS



### ORDERING INFORMATION

Example: T85E-N1-80-BA-36-1854-7040-CM-MO-WH

| Luminary Type |                | Module Qty. |                          | System Power |       | LEDs Type |       | Cable Type    |               | Qty. of LEDs |              |               |       |
|---------------|----------------|-------------|--------------------------|--------------|-------|-----------|-------|---------------|---------------|--------------|--------------|---------------|-------|
| T             | Street light   | N1          | 1pcs Integral LED module | 80           | 80W   | B         | 5050  | A             | CCC+VDE       | 36           | 36pcs        |               |       |
| 85E           | 85E series     |             |                          | 90           | 90W   | C         | 3030  | C             | PSE           | 99           | 99pcs        |               |       |
|               |                |             |                          | 100          | 100W  |           |       | H             | UL            |              |              |               |       |
|               |                |             |                          |              |       |           |       | X             | OTHER         |              |              |               |       |
|               |                |             |                          |              |       |           |       |               |               |              |              |               |       |
| Lens Code     |                |             |                          | CRI          |       | CCT       |       | Brand of LEDs |               | Driver Brand |              | Housing Color |       |
| 1856          | Type I Medium  | 1853        | Type I Medium            | 60           | Ra≥60 | 30        | 3000K | LU            | LUMILEDS      | IN           | INVENTRONICS | BK            | Black |
| 1855          | Type II Medium | 1852        | Type I Medium            | 70           | Ra≥70 | 40        | 4000K | LN            | LUMINUS       | MO           | MOSO         | WH            | White |
| 1854          | Type II Short  | 1851        | Type II Short            | 80           | Ra≥80 | 50        | 5000K | CM            | CUSTOMIZATION | XX           | OTHER        | BU            | Blue  |
| 5050 LEDs     |                | 3030 LEDs   |                          | 90           | Ra≥90 | 57        | 5700K | XX            | OTHER         |              |              | GY            | Gray  |

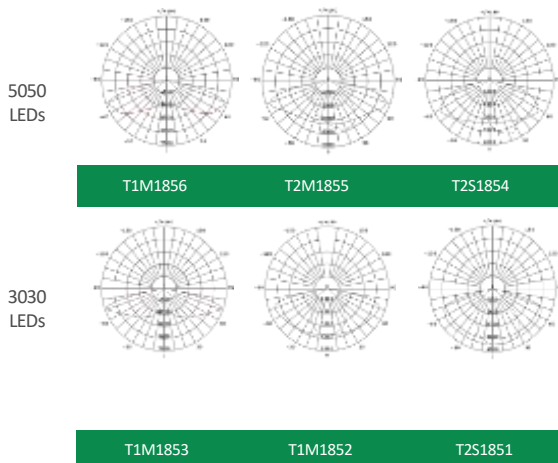
### PERFORMANCE

| Model | Power (W) | 5050 LEDs       |             |  | 3030 LEDs       |             |
|-------|-----------|-----------------|-------------|--|-----------------|-------------|
|       |           | Efficacy (lm/W) | Lumens (lm) |  | Efficacy (lm/W) | Lumens (lm) |
| T85E  | 80        | 140             | 11,200      |  | 120             | 9,600       |
|       | 90        | 137             | 12,330      |  | 117             | 10,530      |
|       | 100       | 133             | 13,300      |  | 113             | 11,300      |

\*Above values are calculated based on the product with CCT over 3000K, values of 3000K are 5% lower than above values.

\*Values shown are subject to ±5%~±8% tolerance.

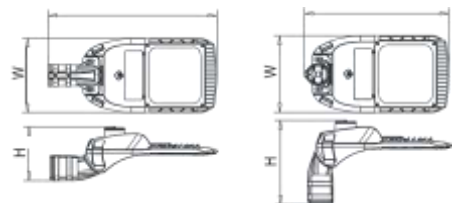
### DISTRIBUTIONS



### DIMENSIONS

| Model | L (mm) | W (mm) | H (mm) | N.W. (kg) |
|-------|--------|--------|--------|-----------|
| T85E  | 590    | 260    | 185    | 6.3       |

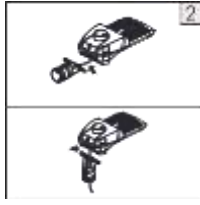
| Model | L (mm) | W (mm) | H (mm) | N.W. (kg) |
|-------|--------|--------|--------|-----------|
| T85E  | 495    | 260    | 285    | 6.3       |



## INSTALLATION AND MAINTENANCE



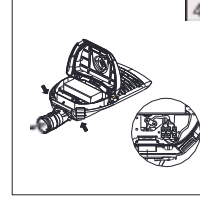
1. Undo the two M10 screws on adaptor installing interface.



2. Thread the AC input cable through the pole adaptor according to the way of installation (side-entry or post-top).



3. Fixate the adaptor with the M10 screws.

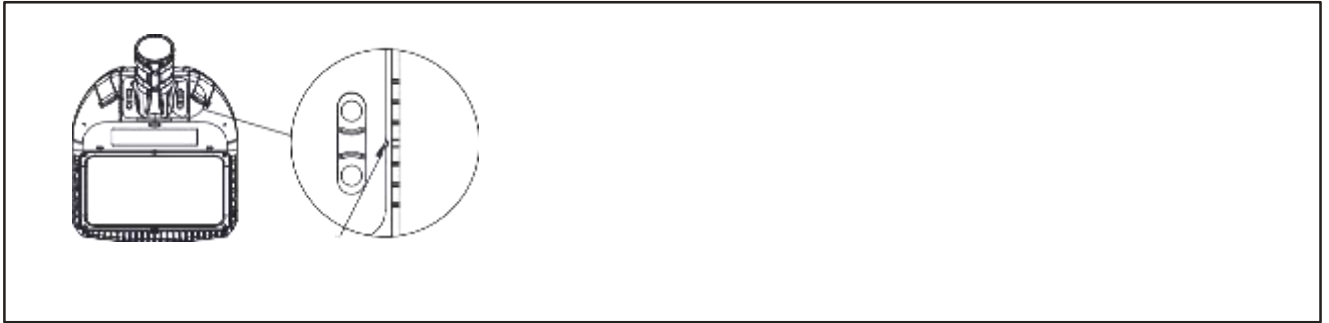


4. Undo the latches to open the cover. Connect the wires to input end through the terminal block correctly. Close the cover and lock it with latches.

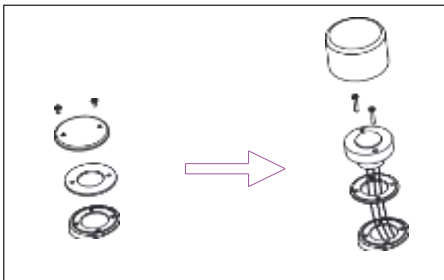


5. Mount the luminaire onto the pole arm or post. Tighten up the screws.

## ELEVATION ANGLE ADJUSTMENT INSTRUCTION



## INSTALLATION OF NEMA RECEPTACLE AND PHOTOCELL



1. Undo the two screws to remove the round cover and its white sealing washer.
2. Thread the wires of the receptacle through the black sealing washer into the electrical compartment of luminaire. Keep the screw holes in alignment among the receptacle, sealing ring and luminaire, and fixate the receptacle with two M4x25 cross recessed countersunk head screws.
3. Plug in and fasten the photocell. Connect the wires in the electrical compartment.

## WIRING

| Power Supply End | Earth wire        | Neutral wire | Live wire  |
|------------------|-------------------|--------------|------------|
| Fixture End      | Yellow-green lead | Blue lead    | Brown lead |
|                  | Green lead        | White lead   | Black lead |

## CAUTION

- a. Disconnect or turn off power before installation, maintenance and wiring.
- a. Cable connection must be insulated and waterproof.
- b. It is possible that the glass applied in this luminaries breaks into small pieces.  
Working environment of the glass:-40°C~+160°C. ; Maximum temperature rise of the glass:160°C
- d. The light source of this luminaire is not replaceable. When the light source's lifetime comes to an end, it is the whole luminaire that should be replaced.

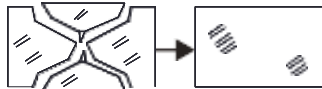
Warning: Danger! Electric shock risk!

(via IEC 60417-6042 (2011-11) )

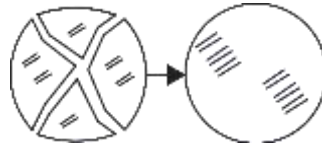


For luminaires with glass cover: The broken cover should be replaced.

Rectangle



Round



The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling

## REMARKS

- 1.This luminaire uses permanent connection on power supply with flexible cable and wires (60245 IEC57). Sufficient length of cable is reserved for connection to AC power. Protection over the connection joint and elimination of tensile force there should be ensured.
- 2.This luminaire uses type Y attachment: method of attachment of the cable or cord such that any replacement can only be made by the manufacturer, his service agent or similarly qualified person.
- 3.Wiring: the connection to AC power should be operated on terminal blocks in a wiring box with a degree of protection at least equivalent to the luminaire, and there should be devices to fixate wires.
- 4.The luminaire can be mounted onto ordinary combustible surfaces.