

T12A

LED Street Light



Specifications

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

Applications

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

Features

Construction

- Die-cast aluminum housing.
- Die-cast 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.

Mounting

- -15° ~ +15° adjustable in steps of 3°.

Finishing Colors



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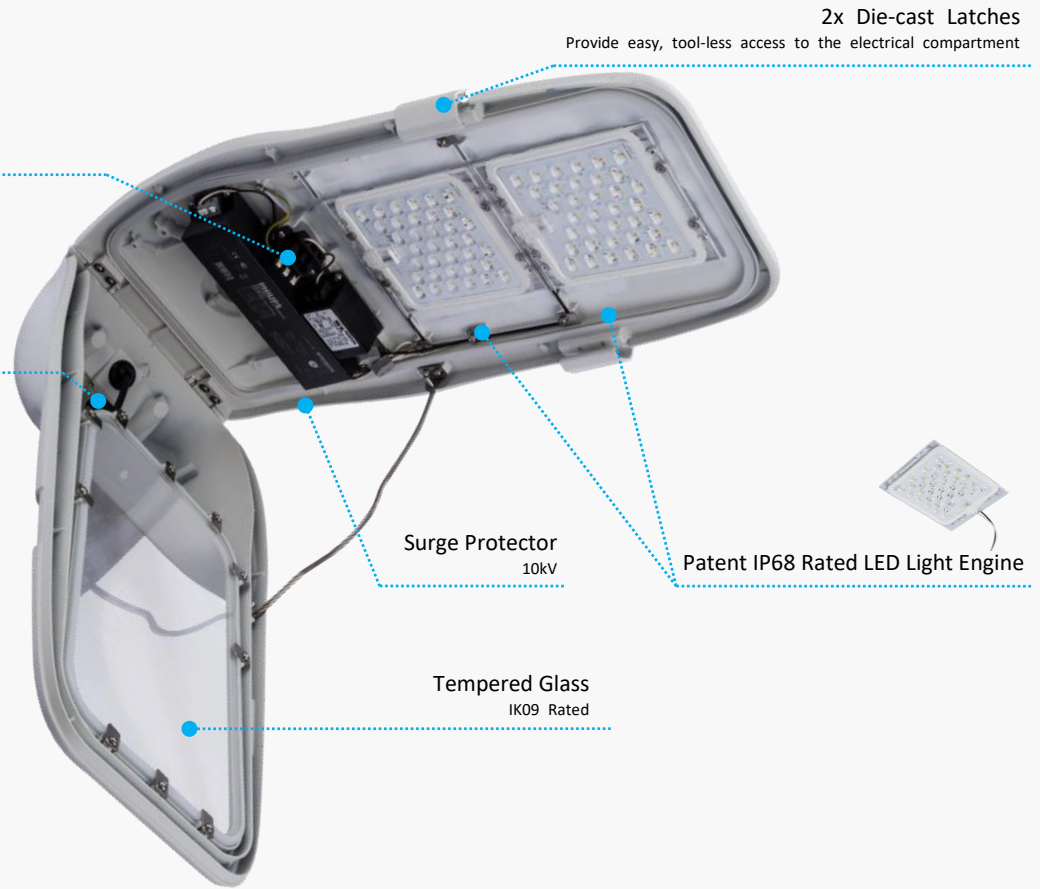
Design Features



Electrical Disconnecter
Immediate disconnection of power supply



Terminal Block
For easy cable connection



2x Die-cast Latches
Provide easy, tool-less access to the electrical compartment

Surge Protector
10kV

Patent IP68 Rated LED Light Engine

Tempered Glass
IK09 Rated

Dimensions

| Model | L (mm) | W (mm) | H (mm) | ΦD (mm) | N.W.* (kg) |
|--------|--------|--------|--------|---------|------------|
| T12A-1 | 630 | 330 | 150 | 66 | 6.1 |
| T12A-2 | 755 | 330 | 150 | 66 | 7.9 |
| T12A-4 | 880 | 470 | 155 | 66 | 13.1 |

* Values shown are subject to ±5% tolerance.

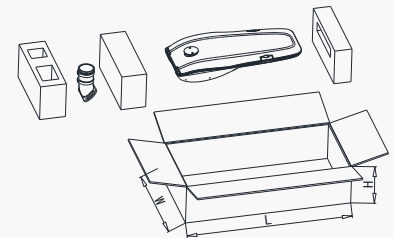
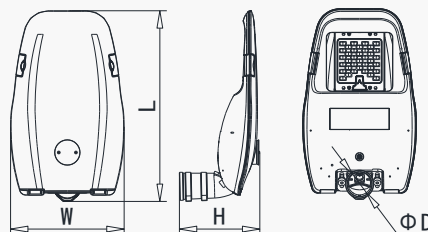
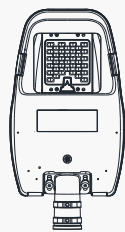
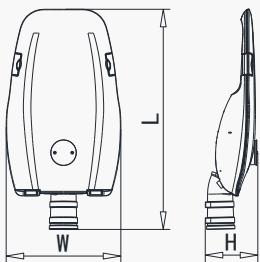
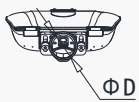
| Model | L (mm) | W (mm) | H (mm) | ΦD (mm) | N.W.* (kg) |
|--------|--------|--------|--------|---------|------------|
| T12A-1 | 550 | 330 | 235 | 66 | 6.1 |
| T12A-2 | 675 | 330 | 235 | 66 | 7.9 |
| T12A-4 | 805 | 470 | 240 | 66 | 13.1 |

* Values shown are subject to ±5% tolerance.

Package Information

| Model | L (mm) | W (mm) | H (mm) | G.W.* (kg) |
|--------|--------|--------|--------|------------|
| T12A-1 | 745 | 430 | 210 | 9.0 |
| T12A-2 | 865 | 430 | 210 | 10.3 |
| T12A-4 | 1040 | 550 | 245 | 15.7 |

* Values shown are subject to ±5% tolerance.



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Ordering Information

Example: T12A-2-120-M7C-XBH-24-1941-7040-CM-IN-GY

| Luminary Type | Module Qty. | System Power | LED Module Type | Module Interface Type | LED Package | Cable Standard | LED Qty. per module | | | |
|---------------------------|----------------------------|----------------------------|--|---|---|--|---|--|---------------|--|
| T Street light | 1 1pcs LED module | 30 30W | M7A M7A module | X X type groove | A 3535 B 5050 C 3030 | A CCC+VDE C PSE H UL X OTHER | 8 8pcs | | | |
| 12A 12A series | 2 2pcs LED modules | 40 40W | M7B M7B module | | | | 9 9pcs | | | |
| | 4 4pcs LED modules | ... | M7C M7C module | | | | 18 18pcs | | | |
| | | 240 240W | M7D M7D module | | | | 24 24pcs 36 36pcs 90 90pcs | | | |
| Lens Code | | | CRI & CCT | | Brand of LEDs | | Driver Brand | | Housing Color | |
| 1991 Type I Short | 5892 Type II Short | 1972 Type II Short | 7030 Ra≥70, 3000K 7040 Ra≥70, 4000K 7050 Ra≥70, 5000K 7057 Ra≥70, 5700K | LU LUMILEDS LN LUMINUS CM CUSTOMIZATION XX OTHER | IN INVENTRONICS XX OTHER | BK Black WH White BU Blue GY Gray | | | | |
| 1981 Type I Short | 5882 Type II Short | 1973 Type III Short | | | | | | | | |
| 1941 Type I Short | 2841 Type I Short | | | | | | | | | |
| 1961 Type I Short | 2861 Type I Short | | | | | | | | | |
| 1967 Type I Short | 2441 Type III Shoet | | | | | | | | | |
| 1969 Type II Short | 2442 Type IV Short | | | | | | | | | |
| 2967 Type II Short | 2462 Type I Medium | | | | | | | | | |
| 2968 Type I Short | | | | | | | | | | |
| 5050 LEDs | | 3535 LEDs | | 3030 LEDs | | | | | | |

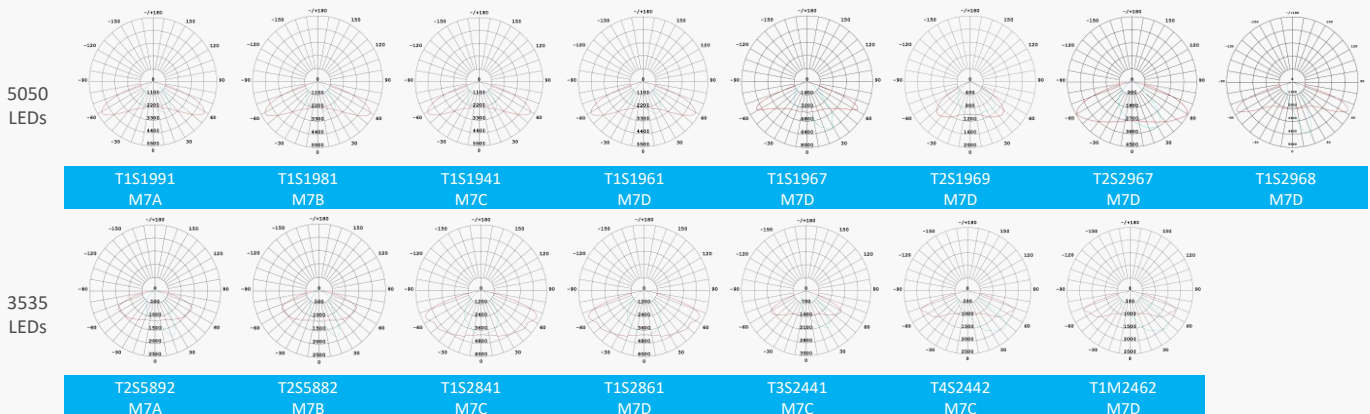
Performance

| Model | Power (W) | 5050 LEDs-18pcs | | 5050 LEDs-8pcs | | 3535 LEDs-18pcs | | 3535 LEDs-9pcs | | | |
|--------|-----------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| | | Efficacy (lm/W) | Lumens (lm) | Efficacy (lm/W) | Lumens (lm) | Efficacy (lm/W) | Lumens (lm) | Efficacy (lm/W) | Lumens (lm) | | |
| T12A-1 | 30 | 143 | 4,290 | 113 | 3,390 | 113 | 3,390 | 100 | 3,000 | | |
| Model | Power (W) | 5050 LEDs-36pcs | | 5050 LEDs-24pcs | | 3535 LEDs-36pcs | | 3535 LEDs-24pcs | | 3030 LEDs-90pcs | |
| | | Efficacy (lm/W) | Lumens (lm) | Efficacy (lm/W) | Lumens (lm) | Efficacy (lm/W) | Lumens (lm) | Efficacy (lm/W) | Lumens (lm) | Efficacy (lm/W) | Lumens (lm) |
| | | | | | | | | | | | |
| T12A-1 | 40 | 153 | 6,120 | 143 | 5,720 | 123 | 4,920 | 115 | 4,600 | 126 | 5,040 |
| | 50 | 148 | 7,400 | 138 | 6,900 | 118 | 5,900 | 110 | 5,500 | 124 | 6,200 |
| | 60 | 143 | 8,580 | 133 | 7,980 | 113 | 6,780 | 105 | 6,300 | 121 | 7,260 |
| T12A-2 | 80 | 160 | 12,800 | 150 | 12,000 | 128 | 10,240 | 120 | 9,600 | 133 | 10,640 |
| | 100 | 153 | 15,300 | 143 | 14,300 | 123 | 12,300 | 115 | 11,500 | 130 | 13,000 |
| | 120 | 150 | 18,000 | 138 | 16,560 | 118 | 14,160 | 110 | 13,200 | 127 | 15,240 |
| T12A-4 | 160 | 158 | 25,280 | 148 | 23,680 | 125 | 20,000 | 118 | 18,880 | 131 | 20,960 |
| | 200 | 150 | 30,000 | 140 | 28,000 | 120 | 24,000 | 113 | 22,600 | 128 | 25,600 |
| | 240 | 147 | 35,280 | 135 | 32,400 | 115 | 27,600 | 108 | 25,920 | 125 | 30,000 |

*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.

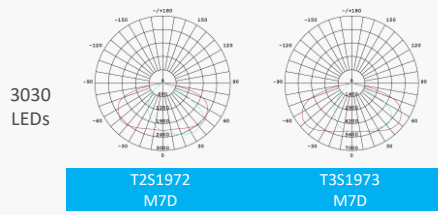
Distributions



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LED Street Light

Distributions



Accessories

Photocell



Photocell Shorting Cap

Version History

| Change Date | Version | Item | Description of Change | |
|-------------|---------|-----------------------|-----------------------|----|
| | | | From | To |
| 2018/09/03 | 2.0 | Datasheet release | | |
| 2020/03/16 | 2.1 | Solution of 3030 LEDs | Added | |