

TLD Tunnel Light Datasheet



Key Features

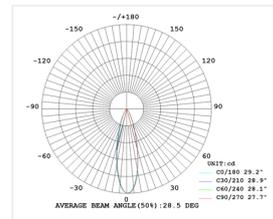
- ⇒ **Efficacy:** Up to 130 lm/w
- ⇒ **LED Chip:** SMD3030
- ⇒ **SDCM:** <5
- ⇒ **Beam Angle:** 30° | 60° | 90° | 80°x150° | 90°x120° PC lens
- ⇒ **IP Rated:** IP65
- ⇒ **Control :** 0-10V dimming (RS485 | PLC | 4G)
- ⇒ **Installation:** Bracket
- ⇒ **Certifications:** CE, RoHS
- ⇒ **Warranty:** 5 years

Application

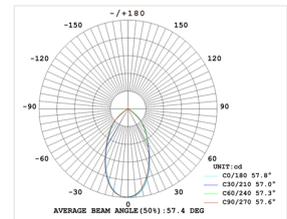
Highway tunnels, railway tunnels, subway tunnels, pedestrian tunnels, underground passages and other scenes.

Photometry

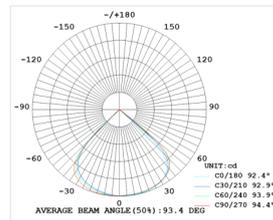
30° PC lens



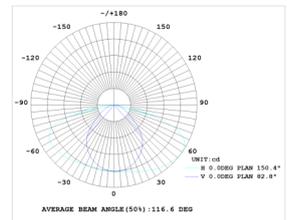
60° PC lens



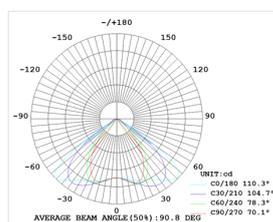
90° PC lens



80°x150° PC lens



90°x120° PC lens



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Product Data

| Model No. | KML-TL050D | KML-TL100D | KML-TL150D | KML-TL200D | KML-TL240D |
|-----------------------|---|------------|------------|------------|------------|
| Power | 50W | 100W | 150W | 200W | 240W |
| Lumen Output | 6,500 lm | 13,000 lm | 19,500 lm | 26,000 lm | 31,200 lm |
| Luminous Efficacy | 130 lm/w | | | | |
| CCT | 3000K 4000K 4500K 5000K 5700K 6500K | | | | |
| CRI | Ra≥70 (Ra≥80 optional) | | | | |
| Input Voltage | 100-277 VAC; 50Hz/60Hz | | | | |
| Housing Color | Black | | | | |
| Material | Aluminum, PC | | | | |
| Operating Temperature | -30°C to +50°C | | | | |
| Operating Humidity | 10% to 90% RH | | | | |
| Lifespan | 100,000 hours | | | | |
| Warranty | 5 Years | | | | |

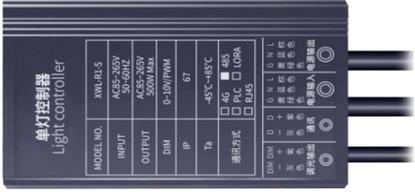
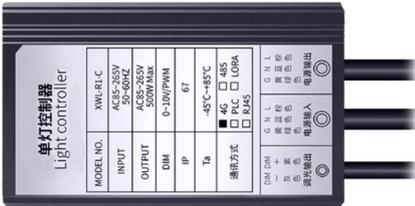
ErP Technical Specification (25°C operating temperature)

| Item | Specification/Data |
|--------------------------------------|----------------------|
| Efficiency In | ≥90% |
| Power Factor | PF≥0.90 |
| Energy Efficiency Class | E |
| Standard Deviation of Color Matching | <5 |
| Starting Time | <0.2S |
| Warm-up Time to 60% | <0.5S |
| Lumen Maintenance at e.o.l. | >70% |
| Lifetime | L70/B10@100,000hours |

**Note: 1. The above parameters are all obtained at +25°C and there are errors within the allowable range of relevant standards.
2. This specification book is for reference only. We retains the right to optimize and modify without pre -notification!**

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0-10V dimming optional signal mode

| | | | | | | | | | | | | | | | | | |
|--|---|-----------|-------|-----------------------------------|--------|-----------------------|----|-----------|----|----|----|-------------|------|--|------|---|---|
|  <p>单灯控制器 Light controller</p> <table border="1"> <tr><td>MODEL NO.</td><td>XWL-RLS</td></tr> <tr><td>INPUT</td><td>ACRS-245V 50-60HZ AC/DC 50W</td></tr> <tr><td>OUTPUT</td><td>AC/DC 50W 500W MAX</td></tr> <tr><td>DM</td><td>0-10V/PWM</td></tr> <tr><td>IP</td><td>67</td></tr> <tr><td>Ta</td><td>-45°C~+85°C</td></tr> <tr><td>通信方式</td><td><input type="checkbox"/> 4G <input type="checkbox"/> RS485</td></tr> <tr><td>通信协议</td><td><input type="checkbox"/> DALI <input type="checkbox"/> ZigBee</td></tr> </table> | MODEL NO. | XWL-RLS | INPUT | ACRS-245V 50-60HZ AC/DC 50W | OUTPUT | AC/DC 50W 500W MAX | DM | 0-10V/PWM | IP | 67 | Ta | -45°C~+85°C | 通信方式 | <input type="checkbox"/> 4G <input type="checkbox"/> RS485 | 通信协议 | <input type="checkbox"/> DALI <input type="checkbox"/> ZigBee | <h3>RS485 Power line communication</h3> <ul style="list-style-type: none"> ⇒ RS485 wired communication; ⇒ Support timing, longitude and latitude time control, holidays and dimming strategies; ⇒ Data collection, remote monitoring, fault alarm, and energy consumption analysis; ⇒ It can expand functions such as lamp pole tilt detection/lamp movement with vehicle/illuminance detection/leakage monitoring, etc. ⇒ Supports multiple protocols such as TCP/MQTT/API to connect to third-party systems. |
| MODEL NO. | XWL-RLS | | | | | | | | | | | | | | | | |
| INPUT | ACRS-245V 50-60HZ AC/DC 50W | | | | | | | | | | | | | | | | |
| OUTPUT | AC/DC 50W 500W MAX | | | | | | | | | | | | | | | | |
| DM | 0-10V/PWM | | | | | | | | | | | | | | | | |
| IP | 67 | | | | | | | | | | | | | | | | |
| Ta | -45°C~+85°C | | | | | | | | | | | | | | | | |
| 通信方式 | <input type="checkbox"/> 4G <input type="checkbox"/> RS485 | | | | | | | | | | | | | | | | |
| 通信协议 | <input type="checkbox"/> DALI <input type="checkbox"/> ZigBee | | | | | | | | | | | | | | | | |
|  <p>单灯控制器 Light controller</p> <table border="1"> <tr><td>MODEL NO.</td><td>ACRS-245V</td></tr> <tr><td>INPUT</td><td>ACRS-245V 50-60HZ AC/DC 50W</td></tr> <tr><td>OUTPUT</td><td>AC/DC 50W 500W MAX</td></tr> <tr><td>DM</td><td>0-10V/PWM</td></tr> <tr><td>IP</td><td>67</td></tr> <tr><td>Ta</td><td>-45°C~+85°C</td></tr> <tr><td>通信方式</td><td><input type="checkbox"/> 4G <input type="checkbox"/> PLC</td></tr> <tr><td>通信协议</td><td><input type="checkbox"/> DALI <input type="checkbox"/> ZigBee</td></tr> </table> | MODEL NO. | ACRS-245V | INPUT | ACRS-245V 50-60HZ AC/DC 50W | OUTPUT | AC/DC 50W 500W MAX | DM | 0-10V/PWM | IP | 67 | Ta | -45°C~+85°C | 通信方式 | <input type="checkbox"/> 4G <input type="checkbox"/> PLC | 通信协议 | <input type="checkbox"/> DALI <input type="checkbox"/> ZigBee | <h3>PLC Power line communication</h3> <ul style="list-style-type: none"> ⇒ Power line communication; Supports scheduling, time-of-day control, holiday settings, and dimming strategies; ⇒ Data collection, remote monitoring, fault alarm, and energy consumption analysis; ⇒ It can expand functions such as lamp pole tilt detection/lamp movement with vehicle/illuminance detection/leakage monitoring, etc. ⇒ Supports various protocols (TCP, MQTT, API, etc.) for integration with third-party systems. |
| MODEL NO. | ACRS-245V | | | | | | | | | | | | | | | | |
| INPUT | ACRS-245V 50-60HZ AC/DC 50W | | | | | | | | | | | | | | | | |
| OUTPUT | AC/DC 50W 500W MAX | | | | | | | | | | | | | | | | |
| DM | 0-10V/PWM | | | | | | | | | | | | | | | | |
| IP | 67 | | | | | | | | | | | | | | | | |
| Ta | -45°C~+85°C | | | | | | | | | | | | | | | | |
| 通信方式 | <input type="checkbox"/> 4G <input type="checkbox"/> PLC | | | | | | | | | | | | | | | | |
| 通信协议 | <input type="checkbox"/> DALI <input type="checkbox"/> ZigBee | | | | | | | | | | | | | | | | |
|  <p>单灯控制器 Light controller</p> <table border="1"> <tr><td>MODEL NO.</td><td>XWL-RLC</td></tr> <tr><td>INPUT</td><td>ACRS-245V 50-60HZ AC/DC 50W</td></tr> <tr><td>OUTPUT</td><td>AC/DC 50W 500W MAX</td></tr> <tr><td>DM</td><td>0-10V/PWM</td></tr> <tr><td>IP</td><td>67</td></tr> <tr><td>Ta</td><td>-45°C~+85°C</td></tr> <tr><td>通信方式</td><td><input type="checkbox"/> 4G <input type="checkbox"/> RS485</td></tr> <tr><td>通信协议</td><td><input type="checkbox"/> DALI <input type="checkbox"/> ZigBee</td></tr> </table> | MODEL NO. | XWL-RLC | INPUT | ACRS-245V 50-60HZ AC/DC 50W | OUTPUT | AC/DC 50W 500W MAX | DM | 0-10V/PWM | IP | 67 | Ta | -45°C~+85°C | 通信方式 | <input type="checkbox"/> 4G <input type="checkbox"/> RS485 | 通信协议 | <input type="checkbox"/> DALI <input type="checkbox"/> ZigBee | <h3>4G (single light controller)</h3> <ul style="list-style-type: none"> ⇒ 4G CAT.1 communication, built-in chip card, full network access; ⇒ Support timing, longitude and latitude time control, holidays and dimming strategies; ⇒ Data collection, remote monitoring, fault alarm, and energy consumption analysis; ⇒ It can expand functions such as lamp pole tilt detection/lamp movement with vehicle/illuminance detection/leakage monitoring, etc. ⇒ Supports multiple protocols such as TCP/MQTT/API to connect to third-party systems. |
| MODEL NO. | XWL-RLC | | | | | | | | | | | | | | | | |
| INPUT | ACRS-245V 50-60HZ AC/DC 50W | | | | | | | | | | | | | | | | |
| OUTPUT | AC/DC 50W 500W MAX | | | | | | | | | | | | | | | | |
| DM | 0-10V/PWM | | | | | | | | | | | | | | | | |
| IP | 67 | | | | | | | | | | | | | | | | |
| Ta | -45°C~+85°C | | | | | | | | | | | | | | | | |
| 通信方式 | <input type="checkbox"/> 4G <input type="checkbox"/> RS485 | | | | | | | | | | | | | | | | |
| 通信协议 | <input type="checkbox"/> DALI <input type="checkbox"/> ZigBee | | | | | | | | | | | | | | | | |

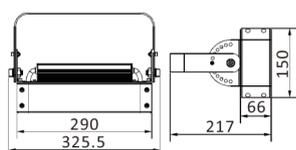
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Packaging

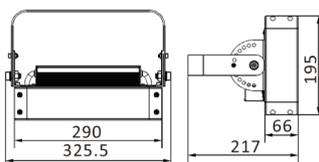
| Model No. | PCS/CTN | N.W | G.W | Volumetric Weight | Carton Size and Volume | 20GP(28m³) | 40HC/HQ(68m³) |
|------------|---------|--------|---------|-------------------|--|------------|---------------|
| KML-TL050D | 1 | 4.0 KG | 4.5 KG | 5.3 KG | L370xW300xH240 mm \approx 0.027 m ³ | 1,037 pcs | 2,518 pcs |
| KML-TL100D | 1 | 6.1 KG | 6.8 KG | 5.9 KG | L370xW330xH240 mm \approx 0.029 m ³ | 965 pcs | 2,344 pcs |
| KML-TL150D | 1 | 7.5 KG | 8.5 KG | 6.7 KG | L390xW360xH240 mm \approx 0.034 m ³ | 823 pcs | 2,000 pcs |
| KML-TL200D | 1 | 8.2 KG | 9.5 KG | 8.0 KG | L425xW390xH240 mm \approx 0.040 m ³ | 700 pcs | 1,700 pcs |
| KML-TL240D | 1 | 9.0 KG | 10.5 KG | 9.8 KG | L485xW420xH240 mm \approx 0.049 m ³ | 571 pcs | 1,387 pcs |

Remarks: The weight of the above products is for reference only, and the weight of different configuration products will be different.

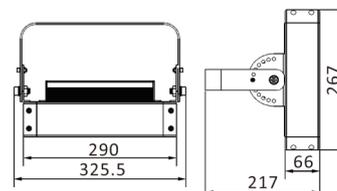
Dimension (unit: mm)



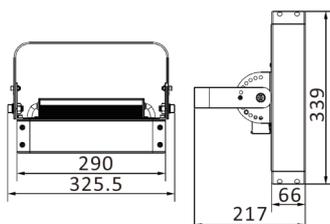
KML-TL050D



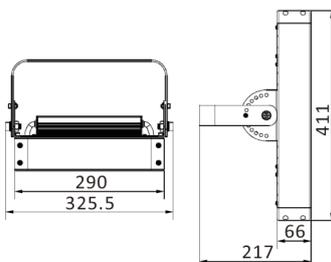
KML-TL100D



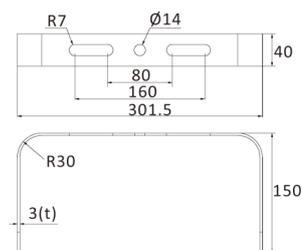
KML-TL150D



KML-TL200D



KML-TL240D



Bracket