

Shenzhen Founder Industrial Co., Ltd.

Factory: 3/F, Building B, No. 65 Chuangyi Road, Gaofeng Community,  
Dalang Subdistrict, Longhua District, Shenzhen, China

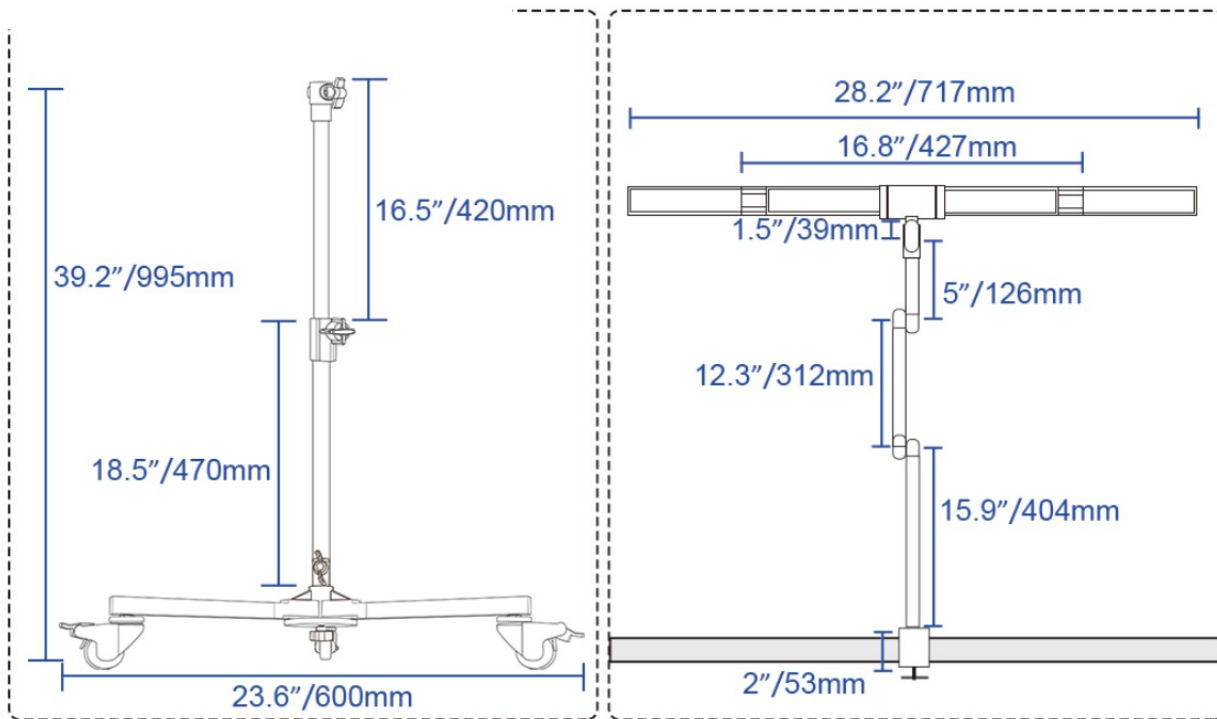
PRODUCT SPECIFICATION

Product Model: FDFL01(A-Z)

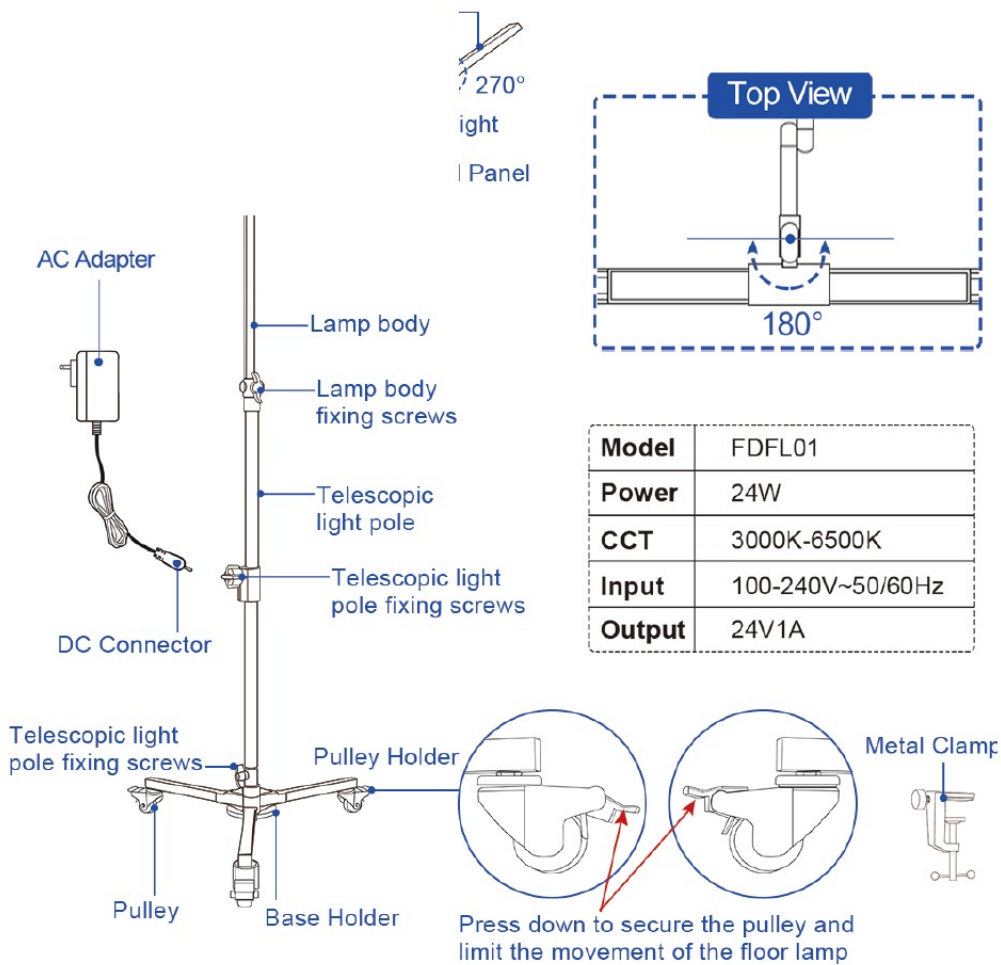


|                                                    |  |
|----------------------------------------------------|--|
| Confirmed by Shenzhen Founder Industrial Co., Ltd. |  |
| Engineering Department                             |  |
| Quality Department                                 |  |
| Approved By                                        |  |
| <div>Notes:</div> <div>Company Stamp</div>         |  |

## 1. Dimensions



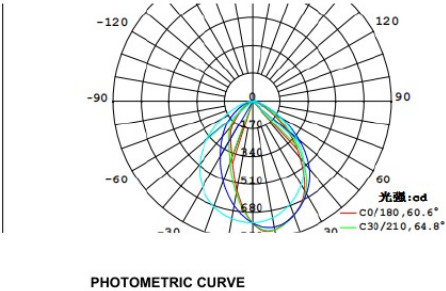
## 2. Adjustment Angles



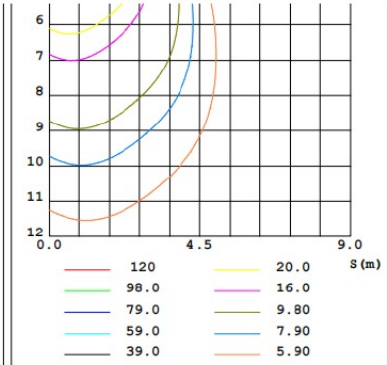
3. IES Photometric Test Report

|                       |                                    |
|-----------------------|------------------------------------|
| Rated Lamp Power      | 19 W±10%                           |
| Rated Supply Voltage  | 24 V DC±5%                         |
| Rated Luminous Flux   | 1380 lm (±10% at 100% brightness)) |
| CCT Range             | 3000-6500 K±275 K                  |
| Color Rendering Index | Ra≥90                              |
| Center Illuminance    | □ 60 cm >1700 lx                   |

LUMINOUS INTENSITY DISTRIBUTION



ISOLUX DIAGRAM (UNIT: lx)



4. Function Description

|                       |                                                                                                                          |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------|
| Power                 | Press to turn the lamp on or off. The last light setting is restored at power-on.                                        |
| Ambient Light Sensor  | Monitors ambient brightness while the lamp is operating.                                                                 |
| CCT                   | Press to cycle through five CCT levels. Press and hold for stepless adjustment from 3000 K to 6500 K.                    |
| Brightness            | Press to cycle through five brightness levels. Press and hold for stepless adjustment.                                   |
| Ambient Light Control | Press to enable automatic brightness control. Output decreases in bright surroundings and increases in dim surroundings. |

5. Remote Control Functions

|                        |                                                                              |
|------------------------|------------------------------------------------------------------------------|
| Power                  | Turn the lamp on or off; the previous light setting is restored.             |
| Brightness + / -       | Adjust brightness through preset levels or continuously.                     |
| CCT + / -              | Adjust CCT through preset levels or continuously.                            |
| Ambient / Timer        | Enable ambient-light control or the 30-minute timer, depending on the model. |
| Main / Auxiliary Light | Select the main or auxiliary light source for independent control.           |
| Memory                 | Normal power cycling restores the previous operating state.                  |

Remote-control notes

- Remove the battery insulation tab before first use.
- Point the remote toward the lamp and keep the signal path unobstructed.
- Replace the battery when the response range becomes noticeably shorter.
- Button availability may vary slightly by model; unsupported keys have no effect.

## 6. Optical Specifications

|                             |                                                                 |
|-----------------------------|-----------------------------------------------------------------|
| Luminous Flux               | 1380 lm ( $\pm 10\%$ at 100% brightness))                       |
| CCT Range                   | 3000-6500 K $\pm 275$ K                                         |
| Brightness / CCT Control    | Touch control                                                   |
| LED Specification           | 2835 0.5 W 150 mA luminous flux:65-70 lm,CRI:90 ; total 140 pcs |
| LED Service Life            | >40000 H                                                        |
| Color Rendering Index (CRI) | Ra $\geq 90$                                                    |
| Center Illuminance          | □ 60 cm >1700 lx                                                |

## 7. Adapter Specifications

|                       |                                    |
|-----------------------|------------------------------------|
| Input                 | AC 100-240 V 50/60Hz, 0.8 A        |
| Output                | 24 V DC $\pm 5\%$                  |
| Rated Output Current  | DC 1 A                             |
| Rated Output Power    | 24 W                               |
| Power Factor          | 0.5 $\pm 0.05$                     |
| Operating Temperature | -10-40 °C                          |
| Certifications        | CE, RoHS, ETL, PSE, CCC, UKCA      |
| DC Cable Length       | 2 m                                |
| DC Connector          | 5.5 x 2.1 x 10 mm right-angle plug |

## 8. Lamp Electrical Specifications (Adapter Excluded)

|                         |                  |
|-------------------------|------------------|
| Rated Input             | 24 V             |
| Rated Power             | 19 W $\pm 10\%$  |
| Power Supply Efficiency | $\geq 80\%$      |
| Protection Class        | Class III        |
| LED Driver Type         | Constant-voltage |
| Battery                 | None             |

9. Complete Unit Electrical Specifications

|                              |                                |
|------------------------------|--------------------------------|
| Rated Input                  | AC 100-240 V 50/60Hz, 0.1 A    |
| Rated Power (Adapter + Lamp) | 21 W±10%(LED module / adapter) |
| Power Factor                 | 0.5                            |
| Standby Power                | <0.5 W                         |
| Protection Class             | Class II                       |

10. Structural Specifications

|                        |                                |
|------------------------|--------------------------------|
| Housing Materials      | PC, ABS, aluminum alloy, steel |
| Profile Surface Finish | Powder coating                 |
| Number of Joints       | 7                              |
| Joint Torque Rating    | 10 kg, 20 kg, 35 kg            |
| Joint Service Life     | 20000 cycles                   |

11. Operating Environment

|                       |                                        |
|-----------------------|----------------------------------------|
| Application           | Indoor use                             |
| Operating Temperature | -20 °C-45 °C                           |
| Operating Humidity    | 0%-85%RH                               |
| Ingress Protection    | IP20 (default unless otherwise marked) |
| Service Life          | ≥20000 h                               |

12. Product Connector

|                |                                    |
|----------------|------------------------------------|
| Connector Type | 5.5 x 2.1 x 10 mm right-angle plug |
|----------------|------------------------------------|

13. Product Certifications

|                |                                  |
|----------------|----------------------------------|
| Certifications | □□ CE, RoHS, ETL, PSE, CCC, UKCA |
|----------------|----------------------------------|

14. Packaging Specifications (Subject to Actual Shipment)

|                            |                    |
|----------------------------|--------------------|
| Outer Carton               | 565 x 540 x 340 mm |
| Color Box                  | 550 x 268 x 340 mm |
| Quantity per Master Carton | 4 sets             |
| Gross Weight per Unit      | 3.4 kg             |
| Total Gross Weight         | 15 kg              |