

Shenzhen Founder Industrial Co., Ltd.

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

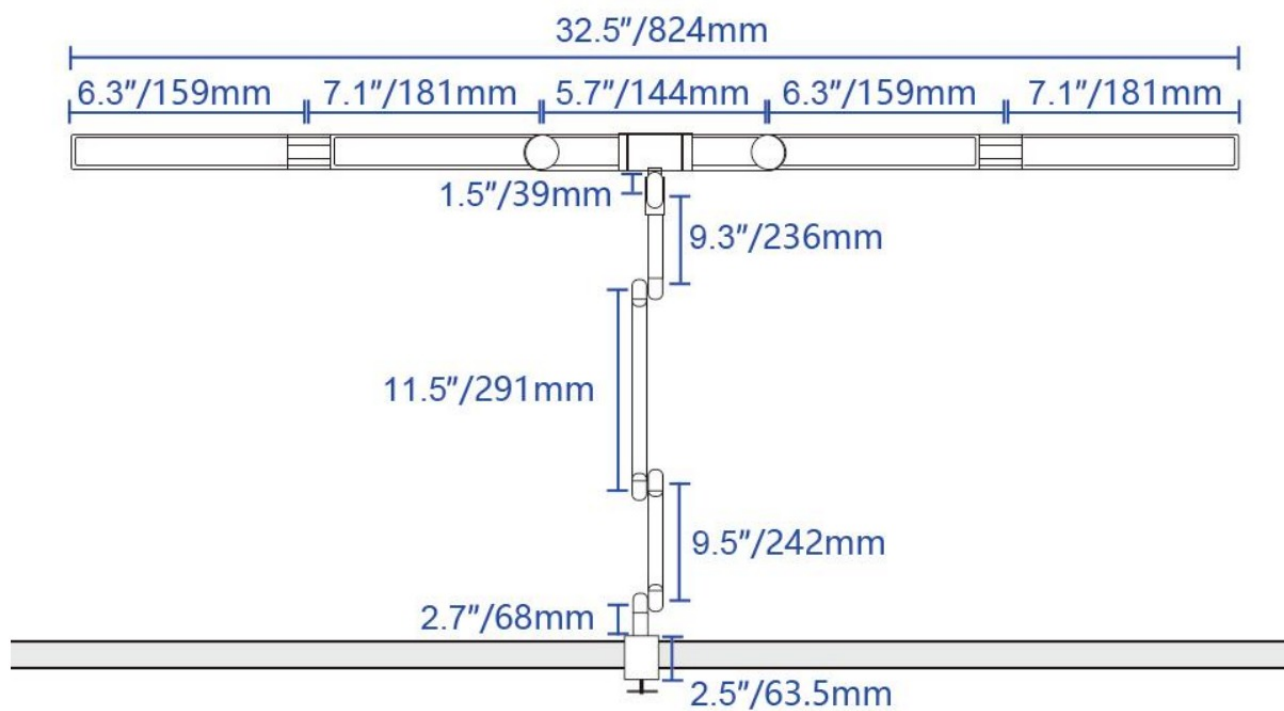
PRODUCT SPECIFICATION

Product Model: FDDL18(A-Z)

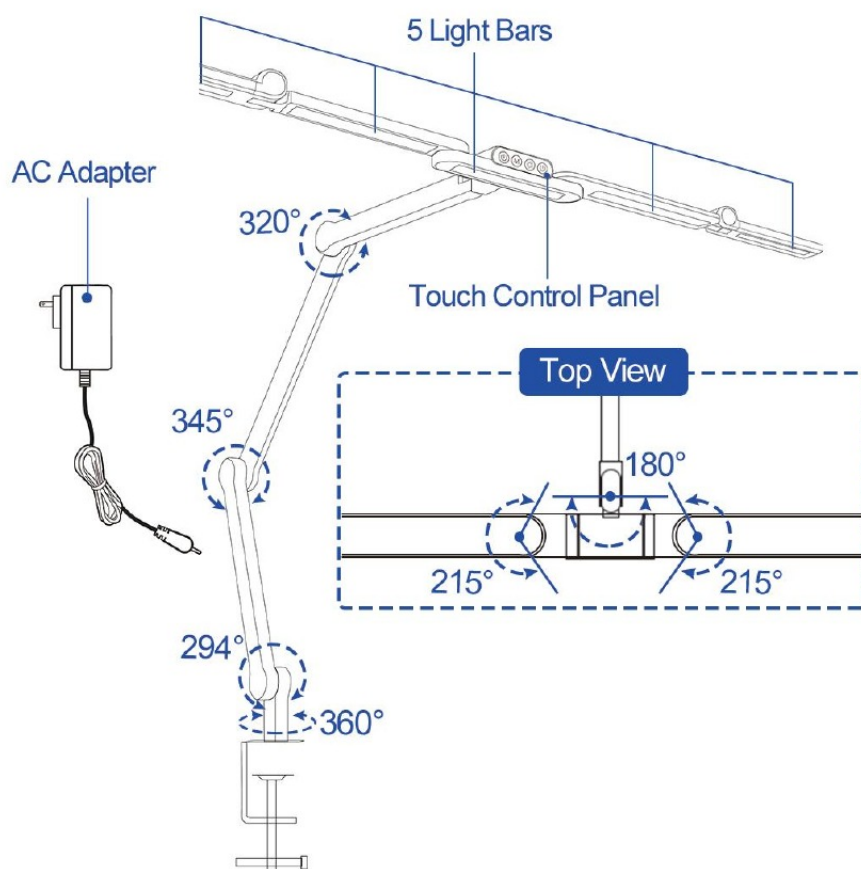


Confirmed by Shenzhen Founder Industrial Co., Ltd.	
Engineering Department	
Quality Department	
Approved By	
Notes: Company Stamp	

1. Dimensions



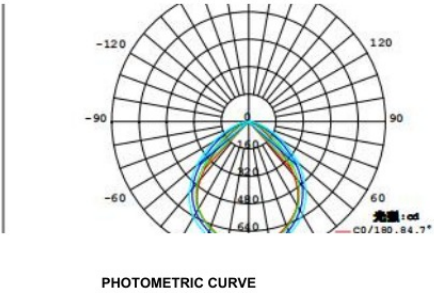
2. Adjustment Angles



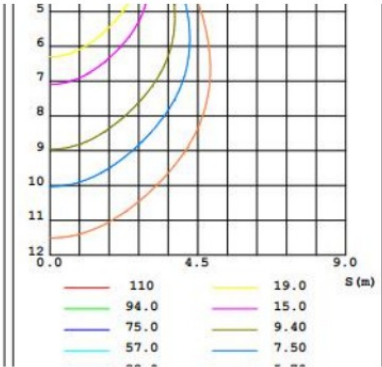
3. IES Photometric Test Report

Rated Lamp Power	20 W±10%
Rated Supply Voltage	24 V DC±5%
Rated Luminous Flux	1583 lm (±10% at 100% brightness))
CCT Range	3000-6500 K±275 K
Color Rendering Index	Ra≥90
Center Illuminance	□ 60 cm >2000 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. Optical Specifications

Luminous Flux	1583 lm ($\pm 10\%$ at 100% brightness))
CCT Range	3000-6500 K ± 275 K
Brightness / CCT Control	Touch control
LED Specification	2835 0.5 W 150 mA luminous flux:65-70 lm,CRI:90 ; total 126 pcs
LED Service Life	>40000 H
Color Rendering Index (CRI)	Ra ≥ 90
Center Illuminance	□ 60 cm >2000 lx

6. 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 ± 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

7. Lamp Electrical Specifications (Adapter Excluded)

Rated Input	24 V
Rated Power	20 W $\pm 10\%$
Power Supply Efficiency	$\geq 80\%$
Protection Class	Class III
LED Driver Type	Constant-voltage
Battery	None

8. Complete Unit Electrical Specifications

Rated Input	AC 100-240 V 50/60Hz, 0.1 A
Rated Power (Adapter + Lamp)	22 W±10%(LED module / adapter)
Power Factor	0.5
Standby Power	<0.5 W
Protection Class	Class II

9. Structural Specifications

Housing Materials	PC, ABS, aluminum alloy, steel
Profile Surface Finish	Powder coating
Number of Joints	8
Joint Torque Rating	10 kg, 20 kg, 35 kg
Joint Service Life	20000 cycles

10. 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

11. Product Connector

Connector Type	5.5 x 2.1 x 10 mm right-angle plug
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12. Product Certifications

Certifications	□□ CE, RoHS, ETL, PSE, CCC, UKCA
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13. Packaging Specifications (Subject to Actual Shipment)

Outer Carton	465 x 415 x 460 mm
Color Box	448 x 197 x 88 mm
Quantity per Master Carton	10 sets
Gross Weight per Unit	1.38 kg
Total Gross Weight	15 kg