

Shenzhen Founder Industrial Co., Ltd.

Factory Address: East Side, 5/F, Building C, Colent Low-Carbon Industrial Park,
Dalang Subdistrict, Longhua District, Shenzhen, China

PRODUCT SPECIFICATION

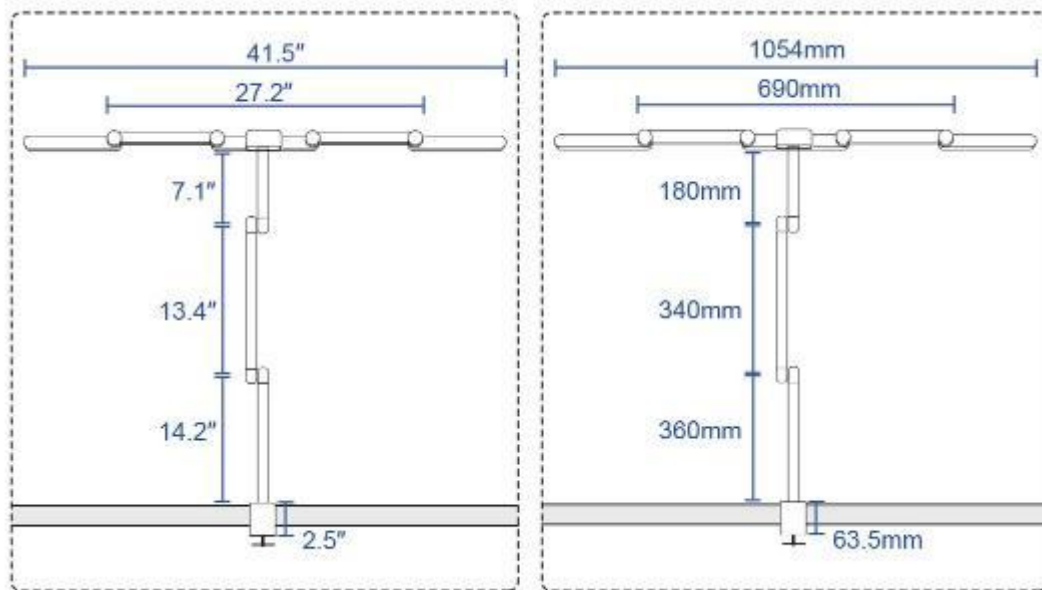
English Edition

Product Model: FDDL02(A-Z)

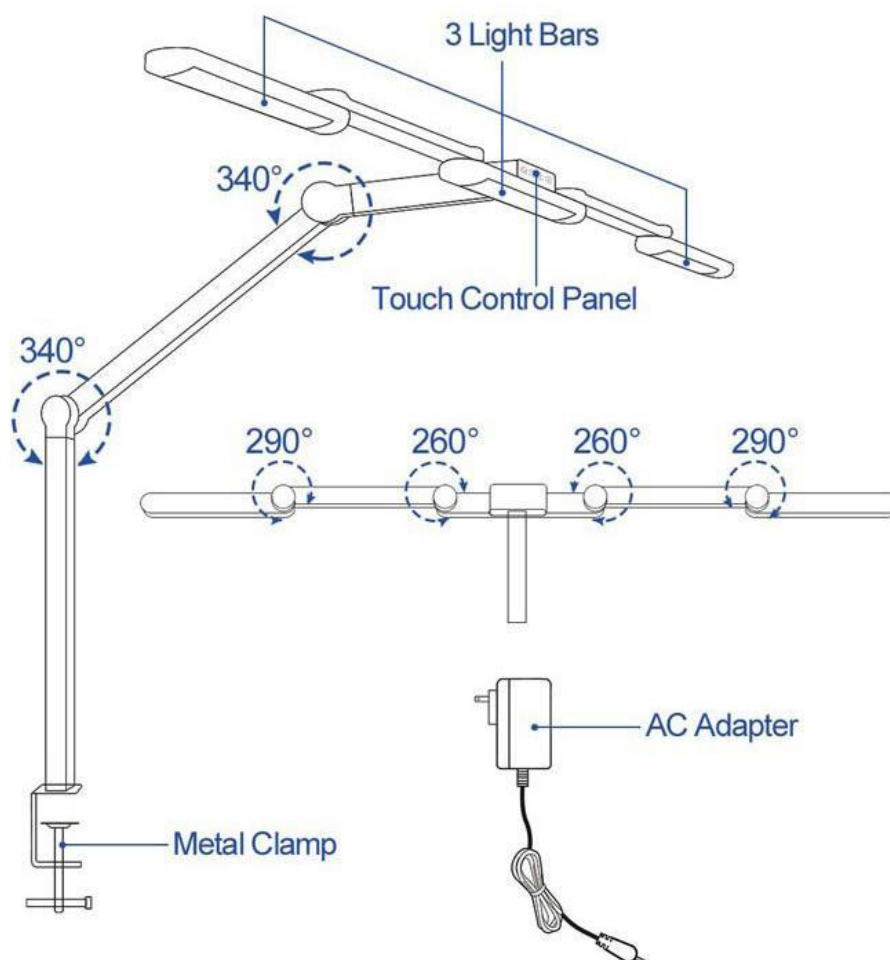


Shenzhen Founder Industrial Co., Ltd. Confirmation	
Engineering Department	
Quality Department	
Approval	
Note:	Company Chop

1. Overall Dimensions

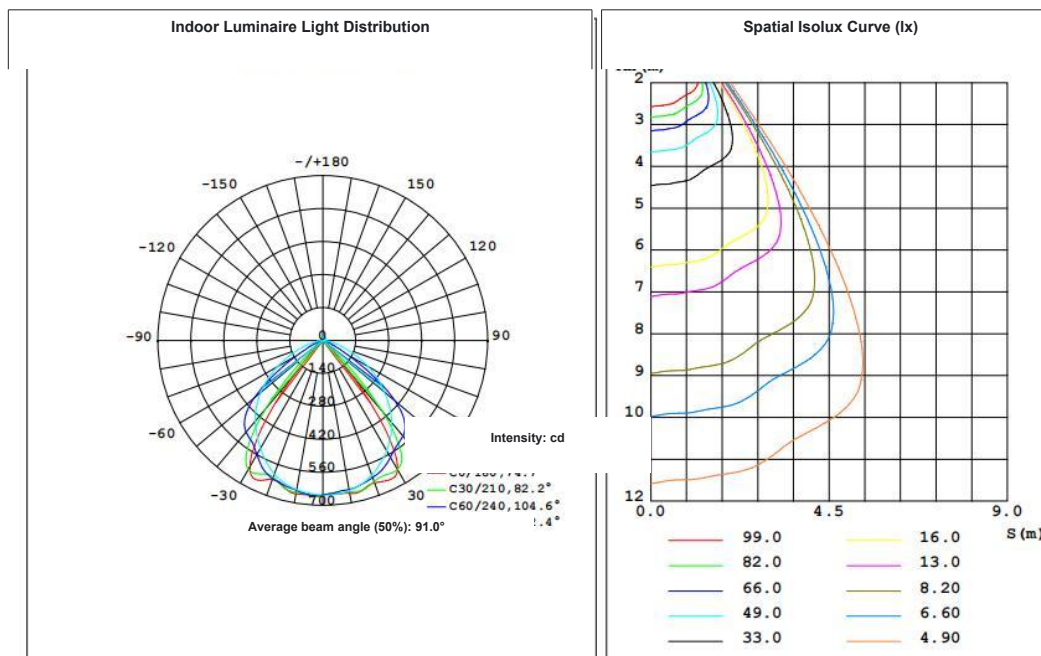


2. Rotation Angles

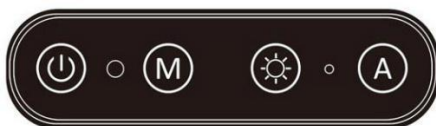


3. IES Test Report

Light Source Data		Photometric Data Efficacy: 70.62 lm/W			
Model	-	Peak intensity (cd)	663.2	S/MH (C0/180)	1.09
Nominal power (W)	18.5	Luminaire efficiency (%)	100.0	S/MH (C90/270)	1.23
Rated supply voltage (V)	220	Total luminous flux (lm)	1306.5	eta UP,DN (C0-180)	1.3, 48.4
Rated luminous flux (lm)	1306.49	CIE class	Direct	eta UP,DN (C180-360)	1.5, 48.8
No. of light sources	1	Upward flux ratio (%)	2.8	CIBSE SHR NOM	0.75
Measured supply voltage (V)	220	Downward flux ratio (%)	97.2	CIBSE SHR MAX	0.90



4. Functional Description



	POWER BUTTON Tap to turn the light on; tap again to turn it off. Memory restores the lighting state used before power-off.
	AMBIENT LIGHT SENSOR Monitors ambient brightness when active.
	CCT BUTTON Tap: cycle 3000K / 3500K / 4000K / 5000K / 6000K Press and hold: stepless cycling adjustment across 3000-6000 K.
	BRIGHTNESS BUTTON Tap: cycle 20% / 40% / 60% / 80% / 100% Press and hold: stepless cycling adjustment across 20%-100%.
	AMBIENT-LIGHT INDICATOR Blue indicator lights when ambient-light mode is on.
	AMBIENT-LIGHT BUTTON Tap to enable ambient-light mode. Brighter surroundings reduce lamp output; darker surroundings increase lamp output.

5. Optical Parameters

Luminous flux	1300 lm ($\pm 10\%$ at 100% brightness)
CCT range	3000-6000 K ± 275 K
Brightness / CCT adjustment	Touch control
LED specification	SMD 2835, 0.5 W, 150 mA; 65-70 lm; CRI 90; 84 pcs total
LED lifetime	>40,000 h
Color rendering index (CRI)	Ra ≥ 90
Center illuminance at 60 cm	>1500 lux

6. Adapter Specifications

Input voltage	100-240 V AC, 50/60 Hz, 0.8 A
Output voltage	24 V DC $\pm 5\%$
Rated output current	1 A DC
Rated power	24 W
Power factor	0.5 ± 0.05
Operating temperature	-10°C to 40°C
Certifications	CE, RoHS, ETL, PSE, CCC
DC cable length	2 m
DC connector	5.5 $\times$ 2.1 $\times$ 10 mm, right-angle

7. Lamp Electrical Performance (Excluding Adapter)

Rated input	24 V DC
Rated power	18 W $\pm 10\%$
Power efficiency	$\geq 80\%$
Electric-shock protection	Class III
LED driver type	Constant-voltage
Battery included	No

8. Complete-Unit Electrical Performance (Adapter + Lamp)

Rated input	100-240 V AC, 50/60 Hz, 0.1 A
Rated power	19 W $\pm$ 10% (LED module / adapter)
Power factor	0.5
Standby power	<0.5 W
Electric-shock protection	Class II

9. Mechanical Parameters

Housing materials	PC, ABS, aluminum alloy, iron
Profile surface finish	Powder coating
Number of pivots	6
Pivot torque	10 kg, 20 kg, 35 kg
Pivot life	20,000 cycles

10. Operating Environment

Use environment	Indoor
Operating temperature	-20°C to 45°C
Operating humidity	0%-85% RH
IP rating	IP20 (default when not marked)
Service life	$\geq$ 20,000 h

11. Product Interface

Connector	DC, 5.5 mm diameter
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12. Complete-Unit Certifications

Certifications	CE, RoHS, UKCA, FCC
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13. Packaging Specification (Subject to Actual Shipment)

Outer carton	570 × 465 × 480 mm
Color box	448 × 280 × 92 mm
Quantity per carton	10 sets/carton
Gross weight per piece	1.44 kg
Total gross weight	15.92 kg