



Technical Application Guide for UP SHINE LED Downlight UP-DL109-4-10W-D

## Introduction





DL109 model is a led down light with graceful and ultra-thin design. The special optical diffuser can increase central candela intensity by more than 30%, provide soft and comfortable lighting. The lamp adopts spring installation and can be installed in the ceiling directly without Junction box installed in advance, greatly decrease the installation and maintenance cost. Metallic driver box with connection holes reserved can be connected directly to the metal hose.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 36,000 hours
- Dimmable when using triac dimmer
- 90° wide beam angle
- CCT: 2700K 3000K 3500K 4000K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

#### **Application notes**

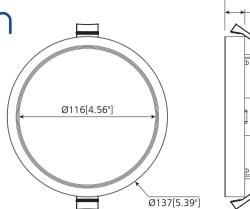
- For Wet location
- Professional electrician for installation only
- Switch off before installation
- Do not touch when in use
- Keep away from hot steam and corrosive gas

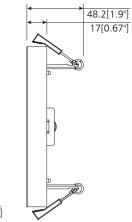
#### **Application Areas**

Suitable for commercial and residential applications like offices, supermarkets, shops, schools, hotels, restaurants, workshop, warehouse, homes etc.

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# Product Information





#### **Technical Specifications**

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	сст	Lifespan	CRI	Dimmable	Dimension
		10W ≥0.9 850 90° 300 880 350		850		2700K				
	161201/		3000K			C127#10.2				
UP-DL109-4-10W-D	AC120V		≥0.9	880	90	3500K	36000h ≥80	≥80	Yes	Ø137*48.2mm
				880		4000K				

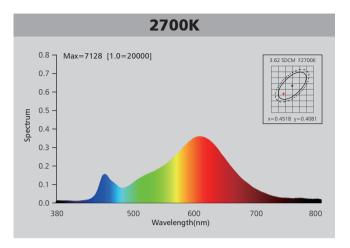
#### **Driver data Sheet**

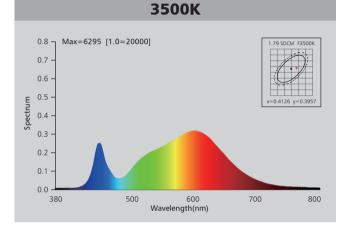
Driver data	DIM		
Input rated Voltage	AC120V		
Frequency	60Hz		
Input Voltage	AC100-130V		
Efficiency	≥80%		
Total load Wattage	10W±1W		
Power Factor	≥0.9		
Rated input current	≤0.12A		
Full load output Voltage	DC24-38V		
Rated output current	270mA		
Output current range	270mA±5%		
Power tolerance	±5%		
Current output tolerance	±5%		
Dimming range	8%-100%		
Dimmer	Triac dimmers		
Short circuit protection	PASS		
Over voltage protection	PASS		
Over temperature protection	PASS		
THD	≤20%		
Withstand voltage	1.5KV / 60S / 5mA		

#### **Fixture Compatibility**

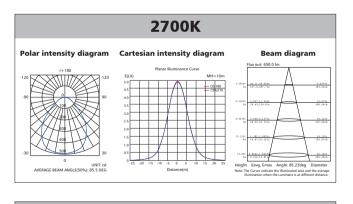
Rated Electrical		Ingress	Operating	Operating	Storage	
Wattage Classification		Protection	Temp	Humidity	Temp	
10W	With ground	Wet location	-20°C~45°C	0~90%	-20°C~65°C	

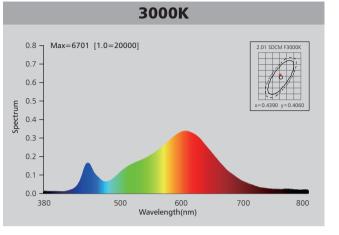
#### **Spectral Distribution**



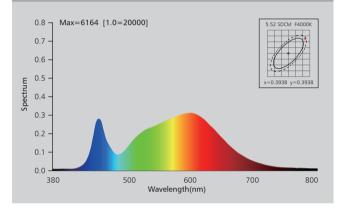


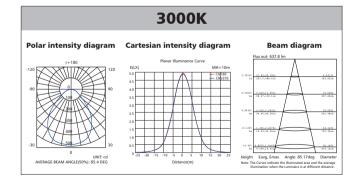
#### **Photometric Diagram**

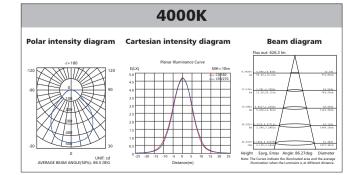




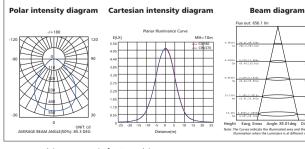
4000K





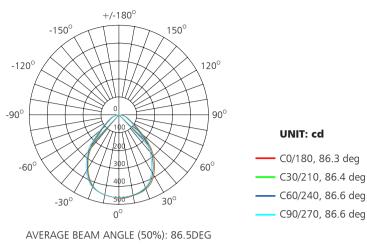


3500K



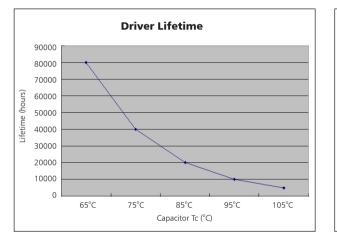
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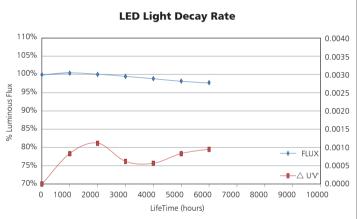
#### **Polar Diagram Comparison**





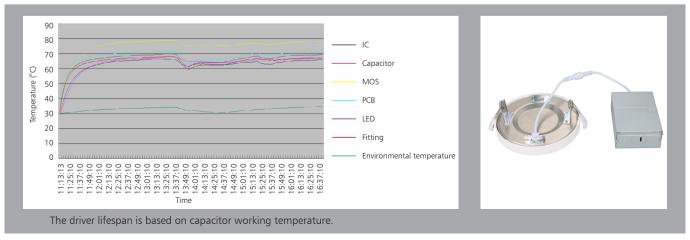
#### Driver lifetime & LED light decay rate





#### Temperature

- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C.
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C

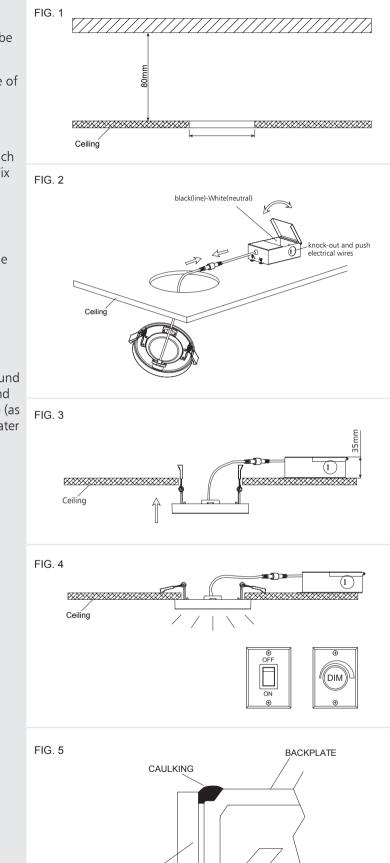


#### Installation

- 1. The upper space above the ceiling height should be no less than 80 mm (see FIG.1)
- 2. Opening a hole in ceiling according to cutout size of the lamp (see FIG.1).
- 3. Punch out the knockout in driver box and attach line voltage AC supply wires to fixture lead wires (L-Black, N-White) inside the driver box. Secure each connection using the quick connector provided. Fix the driver box in a proper position by screw. (see FIG.2).
- 4. Connect the lamp and driver (see FIG.2).
- 5. Hold back spring clips then push the lamp into the hole. (see FIG3).
- 6. Installation completed. Switch on.

#### Note:

For wet locations. In accordance with Underwriters Laboratories requirements, a line of caulking compound such as acrylic latex or silicone must be placed around the perimeter of backplate also contacting the flange (as shown) to seal against mounting surface keeping water away from the outlet box and back opening.

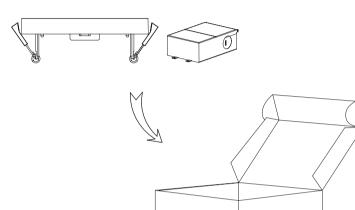


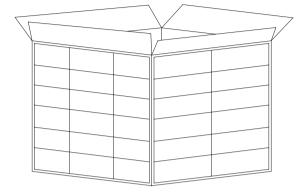
FLANGE

### **Packaging Information**

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)	
Carton	47.5*37*45	0.33	14	36	

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	348	12528	28
40" standard container	698	25128	56





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