

SPECIFICATION

NEXLEDS®

NEXLEDS LTD



RoHS



SURFACE LED DOWN LIGHT

NX-USDLA100-14.2W-D

Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable	Dimension
NX-USDLA100-14.2W-D	AC120V	14.2W	≥0.9	1136	90°	2700K	40000h	≥80	Yes	Ø201*41.9mm
NX-USDLA100-14.2W-D	AC120V	14.2W	≥0.9	1150	90°	3000K	40000h	≥80	Yes	Ø201*41.9mm
NX-USDLA100-14.2W-D	AC120V	14.2W	≥0.9	1178	90°	3500K	40000h	≥80	Yes	Ø201*41.9mm
NX-USDLA100-14.2W-D	AC120V	14.2W	≥0.9	1200	90°	4000K	40000h	≥80	Yes	Ø201*41.9mm

Driver data		DIM	
Input rated Voltage		AC120V	
Frequency		60Hz	
Input Voltage		AC120V	
Efficiency		≥78%	
Total load Wattage		14.2W±0.5W	
Power Factor		≥0.9	
Rated input current		≤0.16A	
Full load output Voltage		DC24-38V	
Rated output current		350mA	
Output current range		350mA±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		—	

Rated Wattage	With Ground	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
14.2W	YES	Wet location	-20°C~45°C	0~90%	-20°C~65°C



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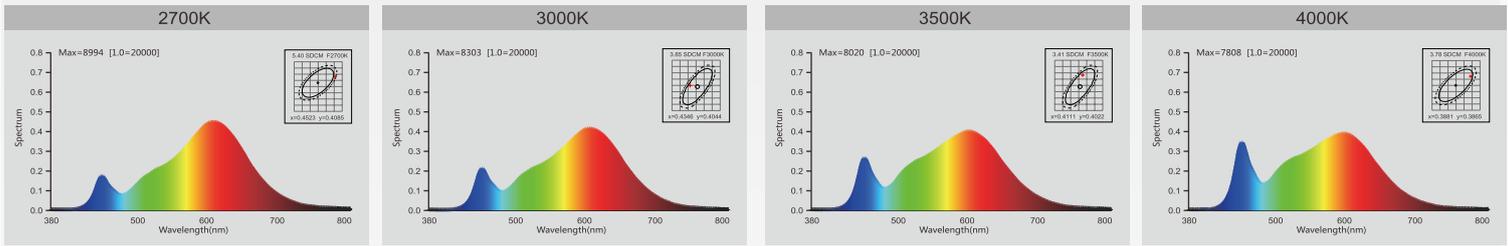


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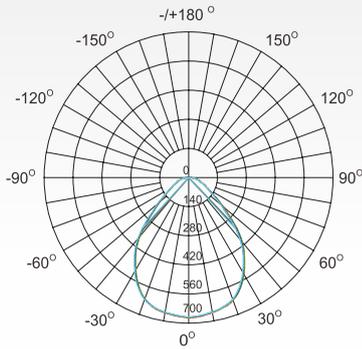
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Spectral Distribution



Polar Diagram Comparison

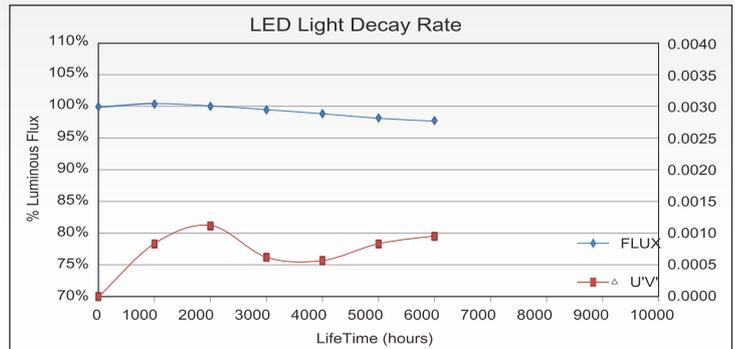
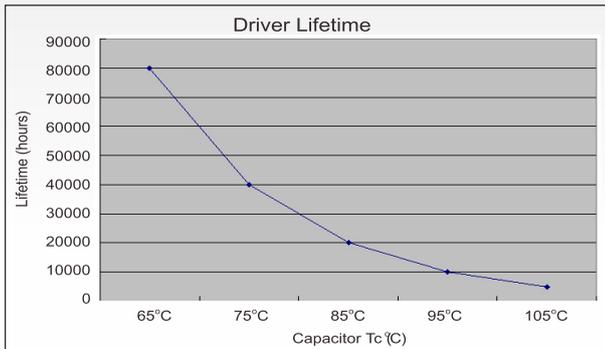


UNIT: cd
 — C0/180, 85.4 deg
 — C30/210, 85.3 deg
 — C60/240, 85.4 deg
 — C90/270, 85.4 deg

AVERAGE BEAM ANGLE (50%): 85.4DEG

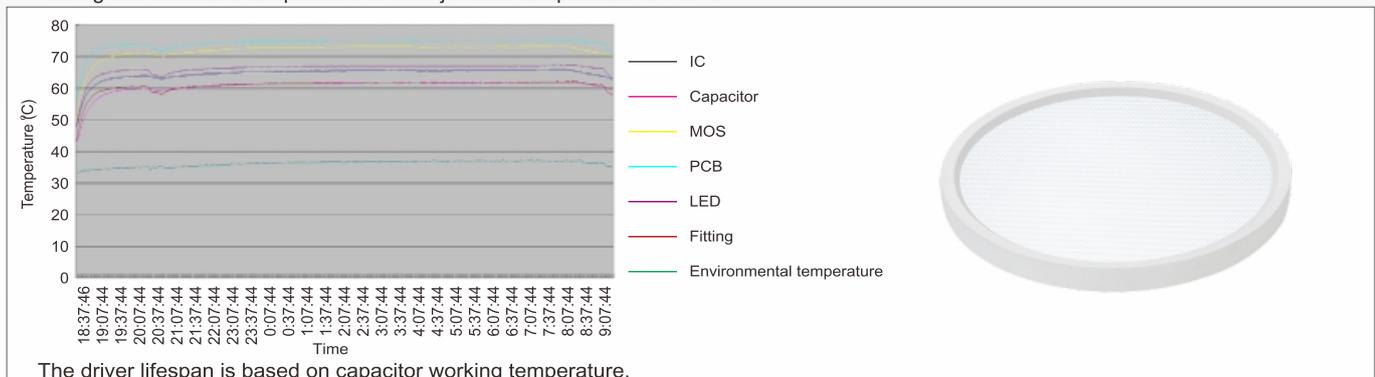


Driver lifetime & LED light decay rate



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



The driver lifespan is based on capacitor working temperature.



Installation

1. Loosen the screws of octagon J-BOX or Round J-BOX.
2. Align and secure J-BOX MOUNTING PLATE to J-BOX using MOUNTING SCREWS.
NOTE: J-BOX MOUNTING GROUND WIRE must face room side.
Make sure J-BOX MOUNTING PLATE is firmly against the ceiling.
Do not over-tighten MOUNTING SCREWS; this could distort J-BOX MOUNTING PLATE. (FIG.1)
3. Pull supply wires from J-BOX through hole in J-BOX MOUNTING PLATE (FIG.2)
4. For wet location, see FIG 4.
5. While supporting LUMINAIRE BODY, Make electrical connections:
black lead to hot (Black) supply lead; white lead to neutral (White) supply lead.
Un-insulated wires are ground wires (ground J-BOX mounting lead and ground luminaire lead) and must be connected to grounding terminal or ground (Green) supply lead inside J-BOX. Use WIRE NUTS to make connections (FIG.2)
6. Carefully push connections back into J-BOX
7. Align 2 SPRINGS and DRIVER on the LUMINAIRE BODY to the opening in the J-BOX MOUNTING PLATE. Snap LUMINAIRE BODY into plate.

CAUTION: MAKE CERTAIN THAT NO WIRES ARE PINCHED BETWEEN J-BOX MOUNTING PLATE AND LUMINAIRE BODY.
To remove luminaire body from ceiling pull straight down.

Driver replacement: Inseparable luminaire. Do not attempt to service.
Replace entire fixture.

CAUTION: 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. (FIG.4)
cULus listed for wet locations (ceilings).

Dimension:

