



### LED DOWN LIGHT (Dimmable)

Model	DL-150 / DL-161
Voltage	AC 230V
Wattage	20W / 30W
LED chip	CREE
CCT	2700K / 3000K / 4000K / 5000K
CRI	> 80 (warm white), > 75 (cool white)
Power	Built in
Dimension / Hole	DL-150: Ø160 X 80 mm / Ø 145 mm DL-161: Ø190 X 80 mm / Ø 175 mm
Dimmable	YES

### Features

- Up to 80% energy saving compared to traditional incandescent recessed light
- High power factor (>0.9)
- Long lifetime of 30,000 hours with 2 years warranty
- Designed to easily install in 145mm (6 in.) / 175mm (7 in.) ceiling opening
- Dimmable with most leading edge dimmers
- Durable aluminum housing with excellent heat conduction ability and shock resistant
- Radiation free, no UV nor IR
- RoHS compliant, environmental friendly

### Applications

- Home lighting
- Architectural lighting
- Commercial lighting

### Equivalent

20W LED = 100W Incandescent / 23W CFL

30W LED = 150W Incandescent / 40W CFL

### U-TEL TECHNOLOGY CO., LTD.

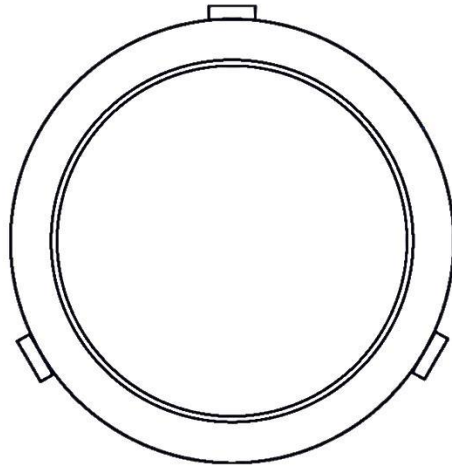
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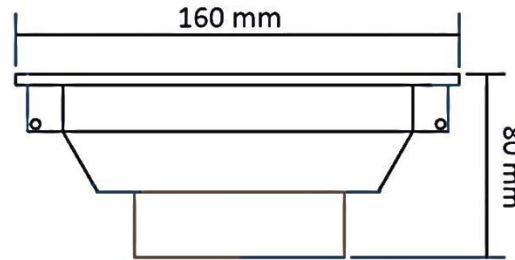
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Rev. 1, July 2013

## Dimension Drawing

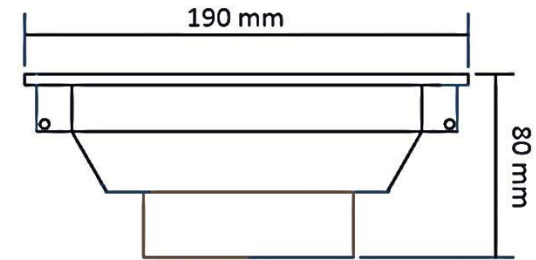


MODEL: DL-150



Hole: 145 mm

MODEL: DL-161



Hole: 175 mm

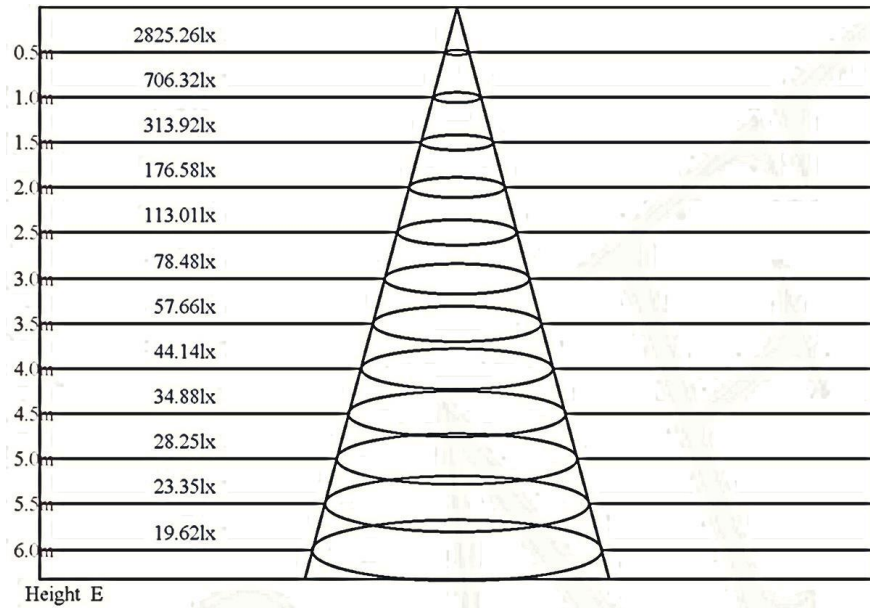
## Technical Specifications and Ordering Part Number

Model	Part Number	Specification of LED chip				Specification of LED light							
		Brand / Model	CCT	Lumens (@Tj 25°C)	CRI (Typical)	Volts	Watts (Max.)	Power	Angle	Efficacy (lm/w)	PF	Dimension (mm)	Lux (@1M)
DL-150	9DL-1520-WW2	Cree CXA1512	3000K	1650	80	AC 220-240V	20	Built-in	75°	46	>0.9	160x80	706
DL-150	9DL-1520-CW2	Cree CXA1512	5000K	1800	75	AC 220-240V	20	Built-in	75°	54	>0.9	160x80	880
DL-161	9DL-1612-WW2	Cree CXA1512	3000K	1650	80	AC 220-240V	20	Built-in	60°	52	>0.9	190x80	743
DL-161	9DL-1612-CW2	Cree CXA1512	5000K	1800	75	AC 220-240V	20	Built-in	60°	62	>0.9	190x80	929
DL-161	9DL-1613-WW0	Cree CXA2520	3000K	2750	80	AC 220-240V	30	Built-in	70°	56	>0.9	190x80	1114
DL-161	9DL-1613-CW0	Cree CXA2520	5000K	3200	75	AC 220-240V	30	Built-in	70°	65	>0.9	190x80	1257

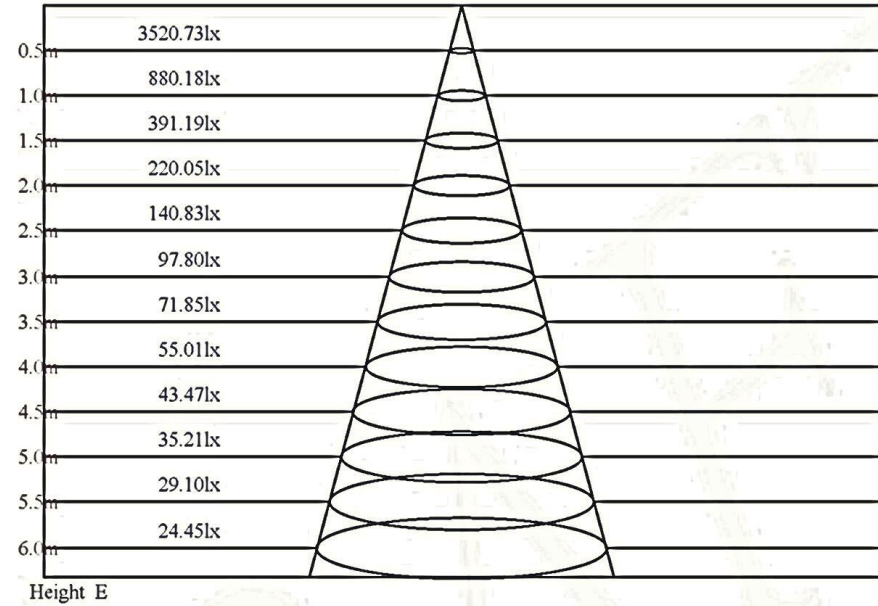
- Specifications of LED chips listed above are provided by the LED manufacturer.
- Lumens of LED chips are calculated for reference only.
- Light efficacy is measured according to LM79 standards.
- Higher CRI or other CCT LED are available. Please consult with your sales representative.
- Product specifications are subject to change without notice.

# LUX DISTANCE CURVE

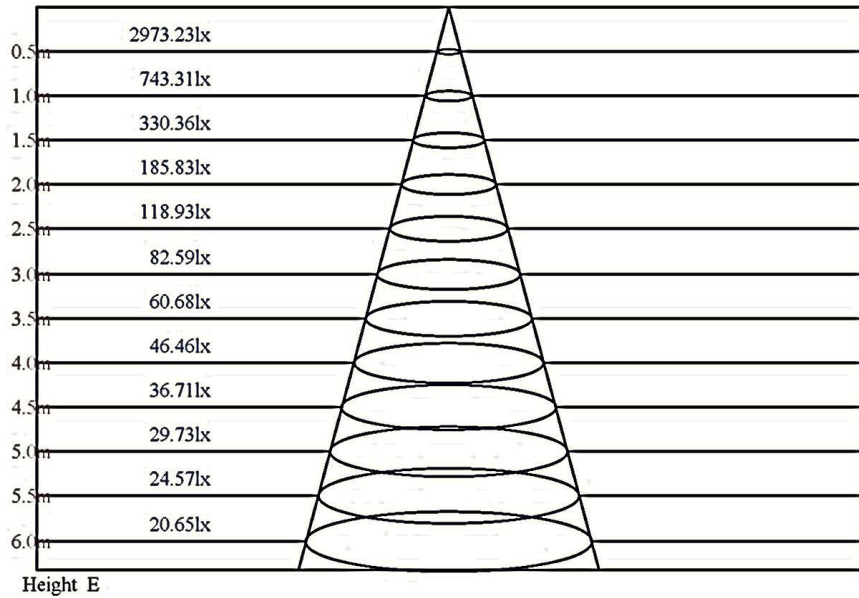
**Model: DL-150 / 20W 3000K, P/N. 9DL-1520-WW2**



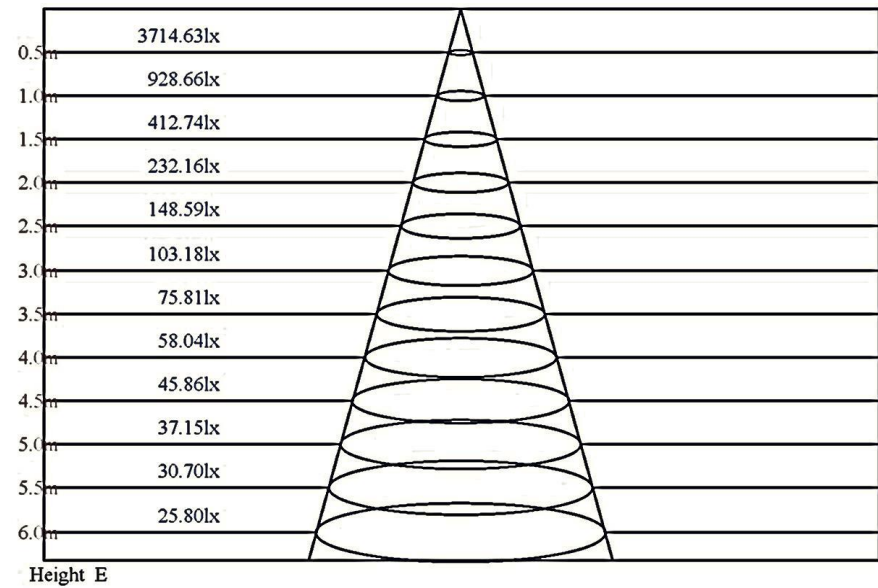
**Model: DL-150 / 20W 5000K, P/N. 9DL-1520-CW2**



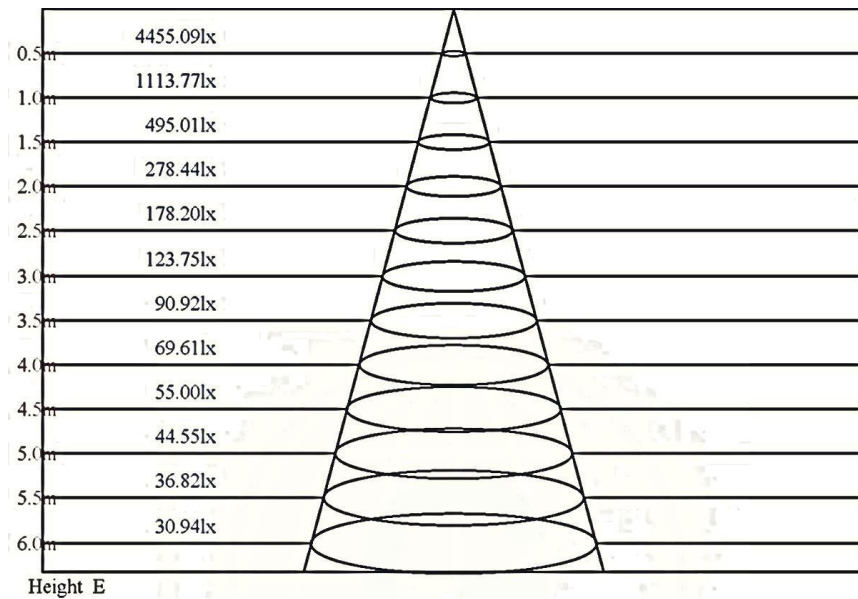
**Model: DL-161 / 20W 3000K, P/N. 9DL-1612-WW2**



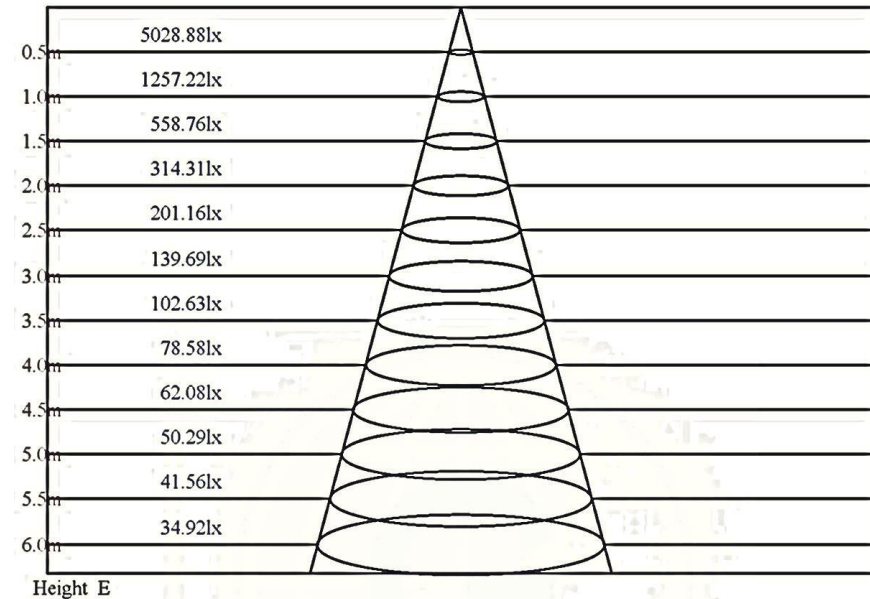
**Model: DL-161 / 20W 5000K, P/N. 9DL-1612-CW2**



### Model: DL-161 / 30W 3000K, P/N. 9DL-1613-WW0



### Model: DL-161 / 30W 5000K, P/N. 9DL-1613-CW0



### PACKAGING

- ※ 1 piece of LED DOWN LIGHT is packed into a paper box in the measurements of 20.5 x 20 x 9 cm and weight of 600 g.
- ※ 20 pieces of LED DOWN LIGHT are packed into an export carton in the measurements of 47 x 42 x 42 cm and weight of 13 Kgs.

### Application Notes

- Electric work must be performed by a certified technician.
- This product is compatible with most leading edge dimmers. Some dimmers may not be compatible. Please do the compatibility test before larger quantity installation. Real dimming performance depends on dimmer type.
- This product is not water-proof, please do not use in water, outdoor. For indoor use only.
- Not suitable for high temperature and moisture area.
- User should be cautioned not to stare at the light. The bright light can damage eyes.
- The applied ambient temperature must be lower than 50 °C.

### Long-term lumen and color maintenance

LED lights typically donot fail to emit light but will decrease in light output and cause color shift over time. The light output decrease amount and time of occuring color shift will vary with different using conditions, ie. higher ambient temperature. To keep the LED lights working at lower temperature environment and well ventilation of fixture are the key issues to maintain better light output and color performance.

## **Environmental Compliance**

U-TEL LED lights are compliant to the European Union Directives on the restriction of hazardous substances in electronic equipment, namely the RoHS directive. U-TEL will not intentionally add the following restricted materials to her LED lighting products, including lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE).

## **PRODUCT WARRANTY POLICY**

### **Products warranty**

U-TEL warrants her LED lamp products to be free from defects in material and workmanship for a period of 24 months starting from the shipment date. During the warranty period, the product fails to operate under normal use, U-TEL will repair or replace the defective products in accordance with the terms and conditions stipulated below.

### **Definition of Defectiveness**

1. U-TEL's customers should purchase samples before placing quantity orders. The sample(s) will have to be approved by customers in written. The quality of that approved samples will be used as a quality reference in case of defective units. If returned units are considered of like quality and level of performance to the reference sample, they will not be covered by the warranty. If the customer chooses not to test / confirm samples before ordering, then defectiveness refers to those items which obviously cannot serve its purpose.
2. General definition of defectiveness after using is the LED light to become non-function (emit no light) at normal working conditions.

### **Procedure of RMA**

1. Before returning the defectives, customers need to test each unit and the defective reasons must be clearly marked in the RMA form (provided BY U-TEL).
2. The returned product should be packed carefully to avoid damage during transport.
3. Customers will be responsible to arrange the defectives back to U-TEL and prepay shipping charges.
4. U-TEL will ship the repaired or replacement products to customers (freight prepaid by U-TEL).

### **Exclusion from warranty**

This warranty will not cover the following situations:

1. If the products have been disassembled.
2. Damage due to the usage not in accordance with product instructions and cautions.
3. If the product sticker on the product has been tampered or removed.
4. If the products still can fully work with the light fixture/transformer tested by U-TEL.
5. This warranty shall not cover incidents due to per chance circumstances outside one's control, misuse, modification, acts of God, improper ventilation and damages resulting from water.

If U-TEL repairs or replaces a product, its warranty period is not extended.