

DL107R Series Recessed **Commercial Downlight**



6inch



8inch



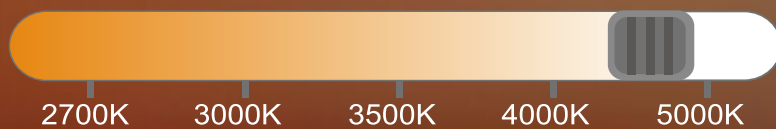
Description

The DL107R is a high-end Bluetooth mesh 5.0 downlight with motion and daylight sensors for intelligent, energy-saving control. Dual-color LEDs allow adjustable brightness and color temperature via app or remote. Supports individual and group control, with functions including on/off, dimming, and timer.



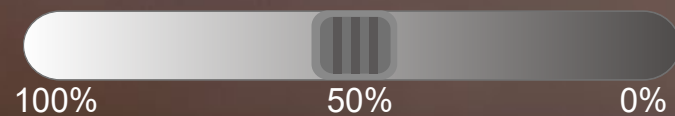
Color temperature stepless adjustment:

2700K (warm light) to 5000K (natural light), freely adjustable to meet different ambient lighting needs;



Brightness dimming:

0%~100% continuously adjustable, precisely matching various lighting scenarios;



Full-scenario intelligent control, offering convenient and flexible operation:

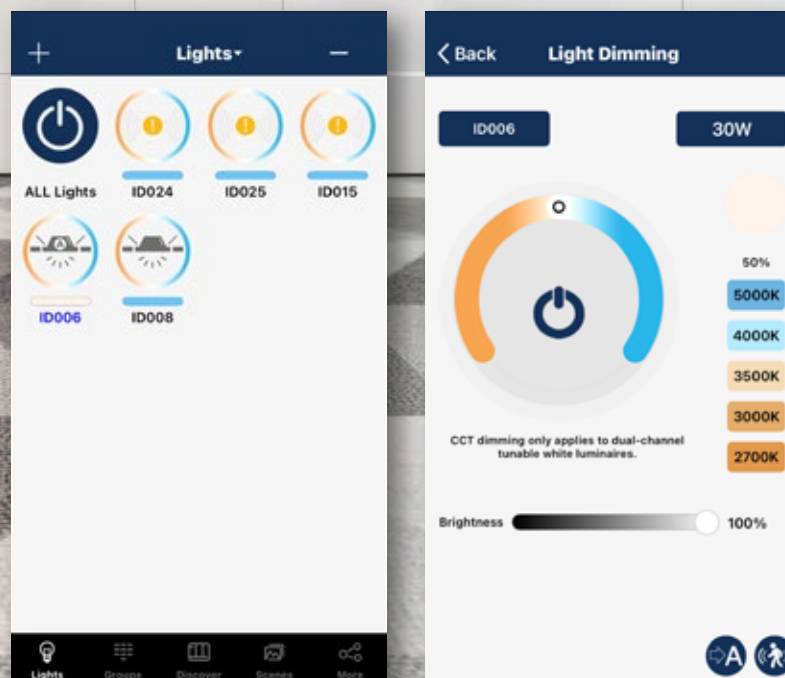
- Supports Bluetooth module connection for dual control via smartphone app and wireless remote control.
- Enables seamless switching between individual light control and group management. Features timer on/off, scene memory, and other functions to enhance management efficiency.

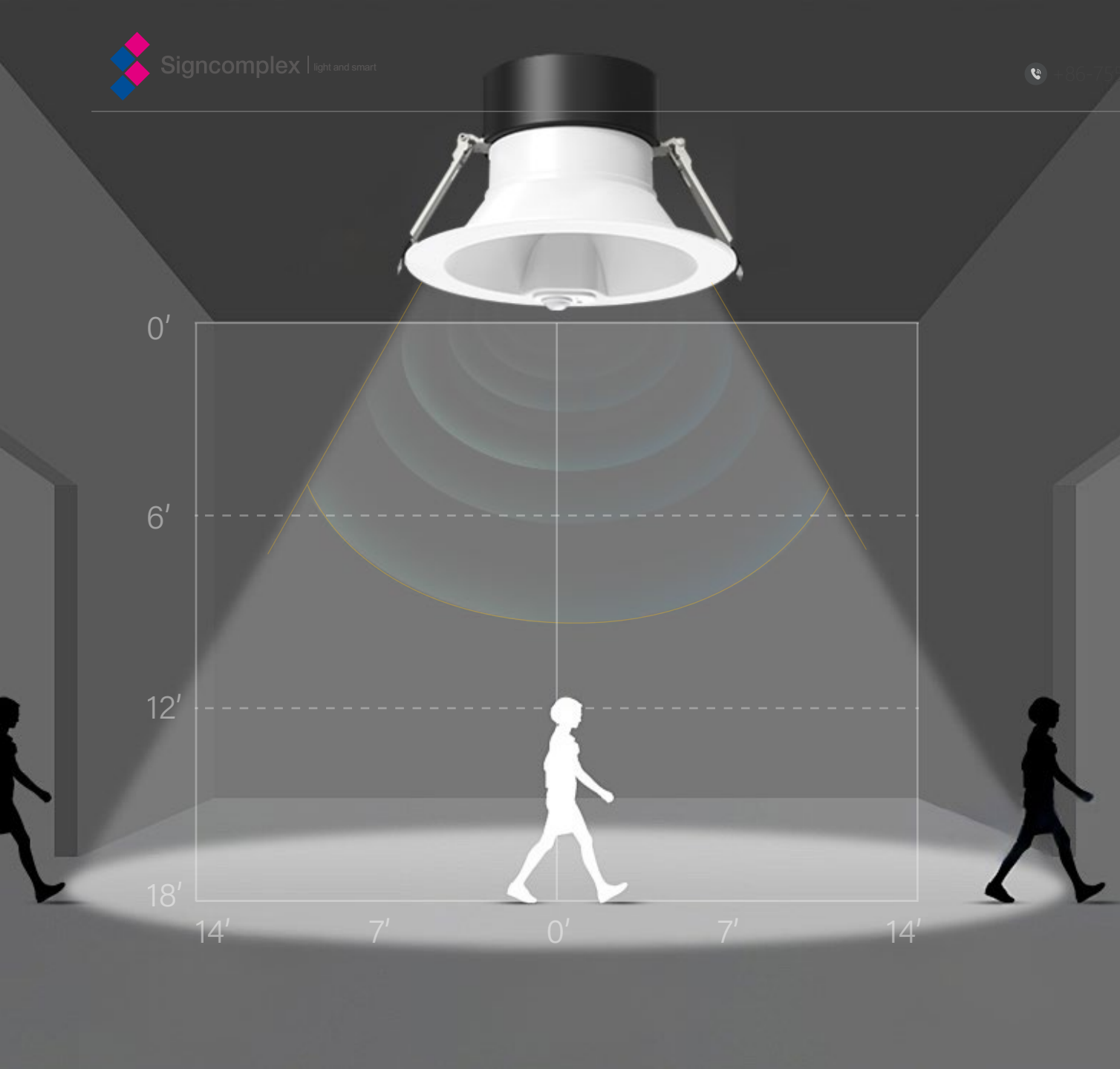


Keilton iOS



Keilton Android
@GooglePlay



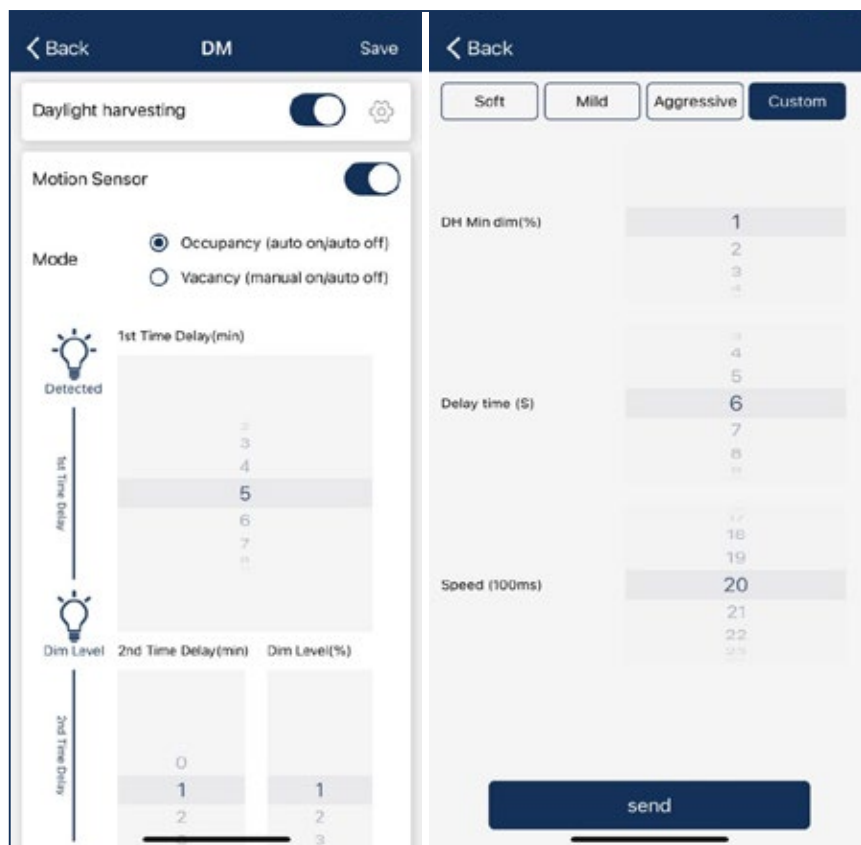


Motion Sensor (PIR) + Guardian Energy-Saving Mode:

- Equipped with a built-in high-sensitivity PIR motion sensor (When mounted at 18FT high, the sensing distance radius is 14FT).
- Enabling lights to turn on when motion is detected and turn off automatically when no movement is sensed, providing intelligent response.
- Guardian brightness level and delay time can be customized via the app, balancing safety and energy efficiency.

Daylight Harvesting Technology

Integrated ambient light sensor automatically detects natural light intensity and dynamically adjusts the luminaire's brightness output to maintain consistent illuminance levels within the space. This significantly reduces energy consumption and improves overall energy efficiency.



High-Efficiency Optical System, Environmentally Friendly

Features high-luminous-efficiency LED chips combined with an optimized optical design, achieving a high system efficacy of up to 120 lm/W. Delivers outstanding energy savings and supports green, low-carbon lighting solutions.



High-Efficiency Driver Design, Meeting High-Standard Certifications

Employs a dedicated driver circuit with high power factor (High PF) and low total harmonic distortion (Low THD), complying with T24 energy efficiency certification requirements. Enhances grid energy utilization efficiency and reduces interference with the power system.



Innovative Structure and RF Design for Superior Performance

Unique co-design of structure and circuitry not only ensures an aesthetically pleasing appearance but also effectively enhances Bluetooth signal transmission capability, delivering longer and more stable wireless control range.



Communication protocol: Bluetooth Mesh
Bluetooth Transmit: 100ft Max(Open area)
Radio Frequency: 2400MHz-2480MHz
Bluetooth Version: 5.0

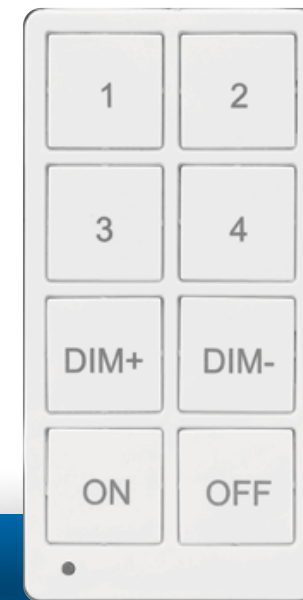


Remote control optional

- 4 separate configurable scene buttons;
- Preset scene functions available for scene buttons:
ON, ON/OFF, OFF w/15min delay, OFF w/1hr delay,
OFF w/2hr delay, OFF w/4hr delay, AUTO/ON, 100%
ON/OFF;
- Separate DIM+/DIM- buttons, Separate ON-AUTO/OFF buttons.



WP1025

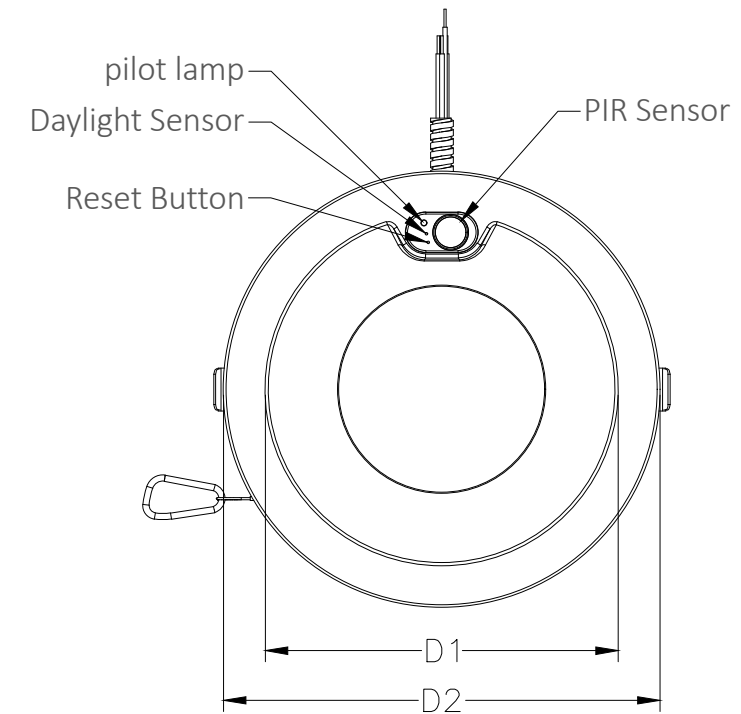
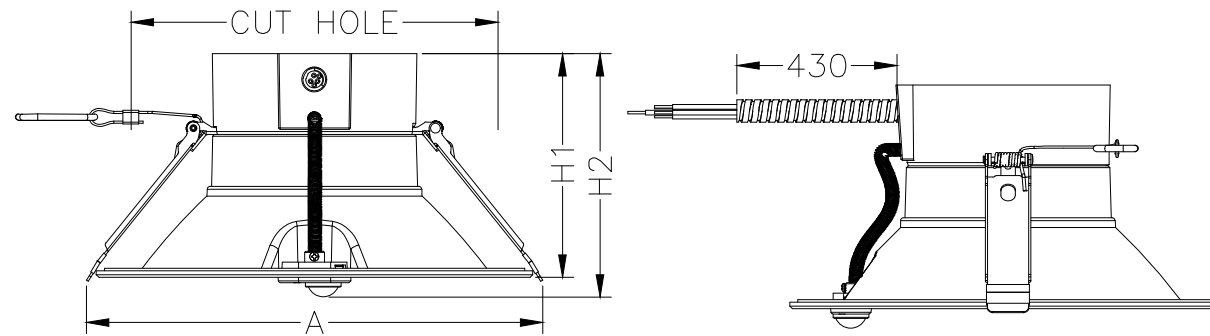


WP1018

Parameters

Model	CCT	Luminous flux (lm±10%)	Beam angle	LEDs type	CRI	PF	Power	Voltage	Work Temperature	Control Type
DL107R-6-30W- 5CCT-R90-00ZZ	2700K	3600	90°	SMD2835	Ra > 90	> 0.9	30W	100-277V, 347V, 50/60Hz	-20 °C ~ 40 °C	Bluetooth
	3000K	3600								
	3500K	3700								
	4000K	3750								
	5000K	3850								
DL107R-8-40W- 5CCT-R90-00ZZ	2700K	4600	100°	SMD2835	Ra > 90	> 0.9	40W	100-277V, 347V, 50/60Hz	-20 °C ~ 40 °C	Bluetooth
	3000K	4700								
	3500K	4750								
	4000K	4750								
	5000K	4700								

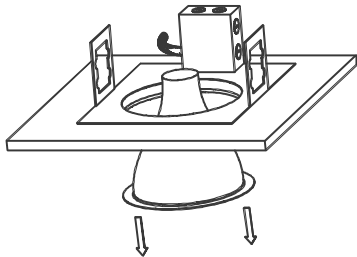
Dimensions



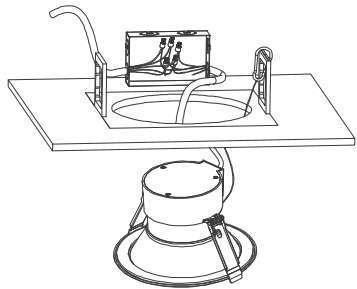
Model	Size	D1 (Trim Dim)	D2 (Luminous Dim)	A (Total Width)	H1 (Total Height)	H2 (Height Assembled)	Cut Hole Dim
DL107R-6-30W	6" Round	156mm	204mm	213mm	120.5mm	131.5mm	158mm
DL107R-8-40W	8" Round	195mm	244mm	255mm	125mm	136mm	205mm

Mounting steps retrofit installation

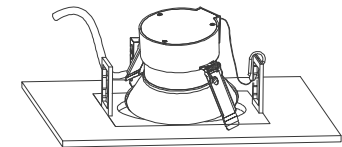
Note: Turn Off electricity at main fuse box (or circuit breaker box) before beginning installation.



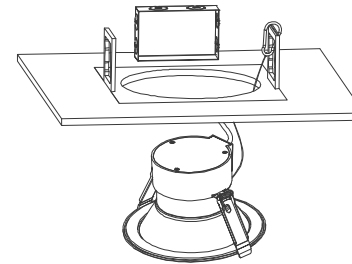
- 1.** Remove existing lamp and reflector. Measure the ceiling opening and ensure the edge of the new luminaire will cover the entire hole.



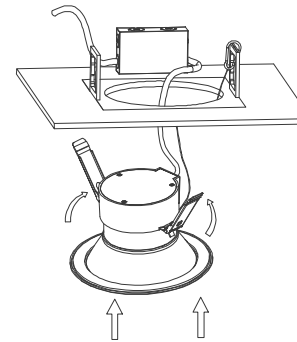
- 3.** Connect the AC main power to the fixture's input leads. Insert the fixture conduit into the J-box and wire to the power source (black to hot, white to neutral, violet to 0-10V dimming positive, gray to 0-10V dimming negative). Reattach the J-box when completed.



- 5.** Once the fixture is in the ceiling, release the spring clips and push the fixture up into the ceiling until it is securely fixed and flushed to the ceiling.



- 2.** Attach the carabiner safety lanyard to the existing fixture housing. Remove the junction box face plate and disconnect the wiring from the existing ballast.



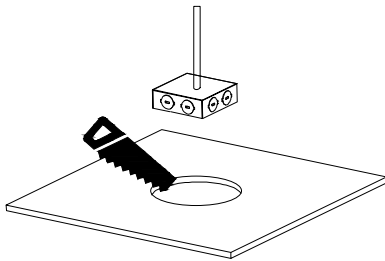
- 4.** Bend spring clips upwards, such that they are in an upright position, and insert fixture into the ceiling and housing.



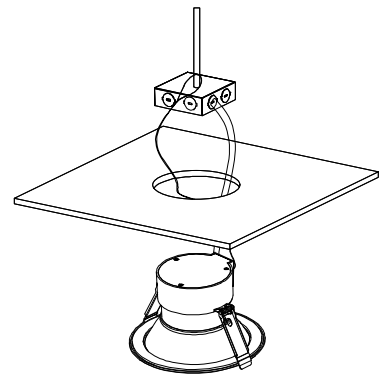
- 6.** Restore the power at the source and the installation is complete.

Mounting steps new construction installation

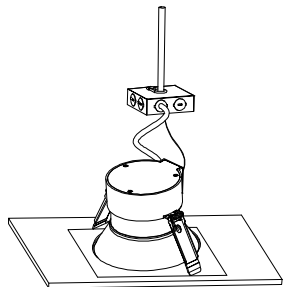
Note: Turn off electricity at main fuse box (or circuit breaker box) before beginning installation.



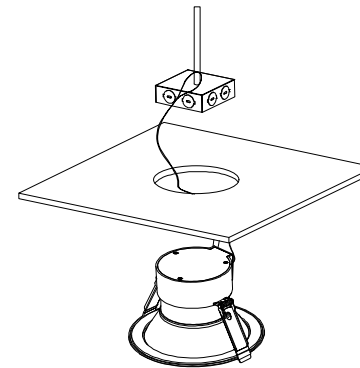
1. If using a new construction plate, install it in the ceiling first. If a new hole is needed, cut a hole according to the luminaire cut-out dimension.



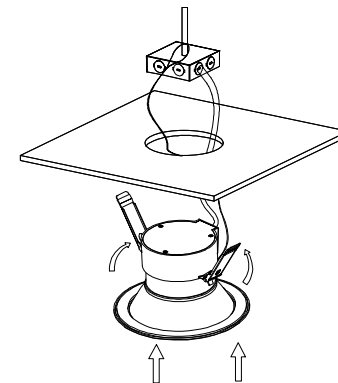
3. Connect the AC main power to the fixture's input leads. Insert the fixture conduit into the J-box and wire to the power source (black to hot, white to neutral, violet to 0-10V dimming positive, gray to 0-10V dimming negative). Reattach the J-box when completed.



5. Once the fixture is in the ceiling, release the spring clips and push the fixture up into the ceiling until it is securely fixed and flushed to the ceiling.



2. Attach the carabiner safety lanyard to secure its place inside the ceiling. Remove the junction box faceplate and disconnect wiring to the existing ballast. Remove the appropriate knock out on junction box.



4. Bend spring clips upwards, such that they are in an upright position, and insert fixture into the ceiling and housing.



6. Restore the power at the source and the installation is complete.

Package

Model	Inner Box/Size	Qty/Unit	N.W/Unit	Caton/Size	Qty/Carton	N.W/Carton	G.W/Carton
DL107R-6-30W	221*221*144mm	1PCS	0.695KG	460*459*453mm	12PCS	8.34KG	11.87KG
DL107R-8-40W	261*261*148mm	1PCS	0.841KG	540*539*312mm	8PCS	6.73KG	9.95KG

Notice

- Please read the specification first, to make sure the service environment matches the condition in the specification before using.
- Please confirm the applicable power supply before using.
- Make sure the switch of product is off before connect to the power supply to prevent electric shock.
- Operation against rules may damage your property even harm to your personal safety.
- Dangerous high voltage, Non-professionals are not allowed to maintain the products.
- If the exterior flexible cable or wire is damaged, it must exchange by the supplier, its agent or other similar qualified personnels to avoid dangers.

