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Bluetooth Mesh Downlight

Commercial Downlight

DESCRIPTION

The JLS-BTCR 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.

FEATURES

- Wattages : 30W/40W options dim via APP
- CCT : 2700K-5000K stepless dim
- Lumen Efficiency : up to 120lm/W
- 5 Year Warranty—10 Year Warranty Available
- Bluetooth Mesh Control with Sensor



Revised 5/22/2026

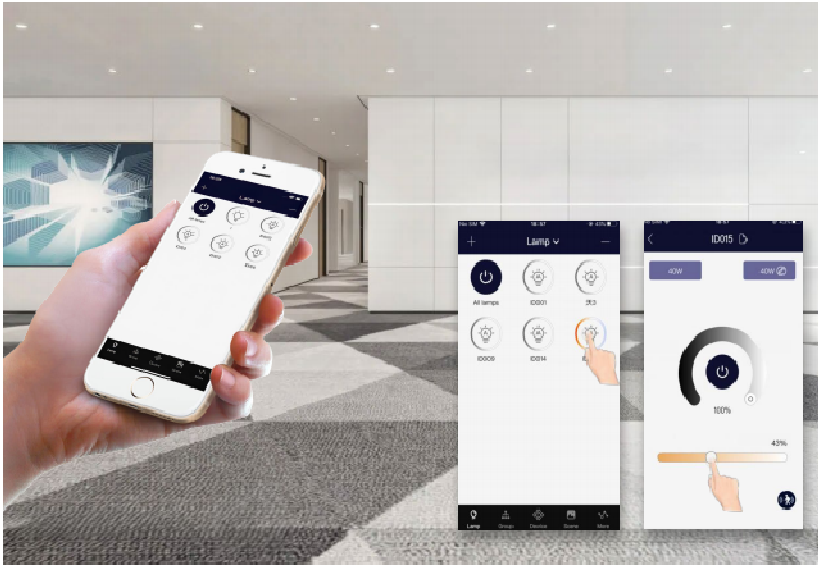
Specifications are typical values and may change without notification

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Bluetooth Mesh Downlight



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.



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.

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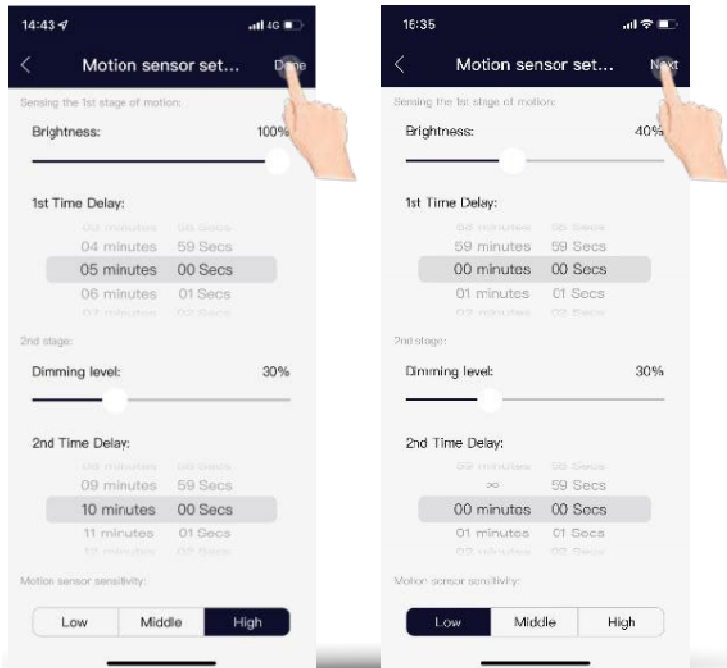
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Bluetooth Mesh Downlight

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



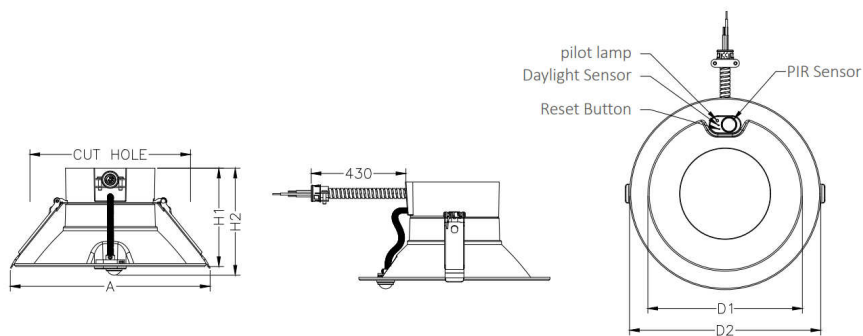
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Parameters										
Model	CCT	Luminous flux (lm±10%)	Beam angle	LEDs type	CRI	PF	Power	Voltage	Work Temperature	Control Type
JLS-BTCR-6	2700K	3600	90°	SMD2835	Ra > 90	> 0.9	30W	100-277V, 347V, 50/60Hz	-20°C ~ 40°C	Bluetooth
	3000K	3600								
	3500K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



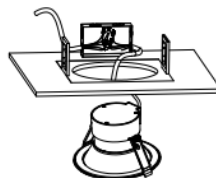
Model	Size	D1 (Trim Dim)	D2 (Luminous Dim)	A (Total Width)	H1 (Total Height)	H2 (Height Assembled)	Cut Hole Dim
JLS-BTCR-6	6" Round	156mm	204mm	213mm	120.5mm	131.5mm	158mm
JLS-BTCR-8	8" Round	195mm	244mm	255mm	125mm	136mm	205mm

Mounting steps retrofit installation

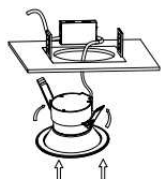
Note: Turn Off electricity at main fuse box (or circuit breaker box) before beginning installation.



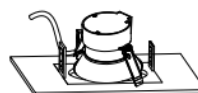
1. Remove existing lamp and reflector. Measure the ceiling opening and ensure the edge of the new luminaire will cover the entire hole.



2. 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.



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



4. 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.



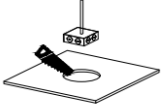
5. Restore the power at the source and the installation is complete.

Specifications are typical values and may change without notification

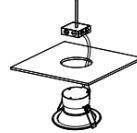


Mounting steps new construction installation

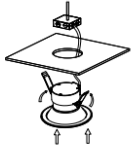
Note: Turn off electricity at main fuse box (or circuit breaker box) before beginning installation.



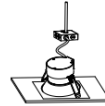
1. If using a new construction plate, install it in the ceiling first. If a new hole is needed, cut a hole according to the luminaire cut-out dimension.



2. 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.



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



4. 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.



5. 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
JLS-BTCR-6	221*221*144mm	1PCS	0.695KG	460*459*453mm	12PCS	8.34KG	11.87KG
JLS-BTCR-8	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.

ORDERING GUIDE

For example: JLS-BTCR-6-30-9MCCT-S [TAA], 6in round 120-277V 30W max Ra90 27-50K white smooth BLE

MODEL	-	SIZE	-	WATTAGE	-	CCT	-	SENSOR	DESIGNATION
JLS-BTCR		6 = 6 Inch Can		30 = 30W Max		9MCCT = 2700K-5000K		S = With Sensor	[TAA]
		8 = 8 Inch Can		40 = 40W Max					[COM]

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