



RADIANCE™ Retrofit Downlight



Beyond LED Technology's New Radiance LED 6" Down Light offers a perfect blend of efficiency, flexibility, and modern design for your lighting needs. With a 12W power output, this downlight delivers brilliant illumination while keeping energy consumption low. Our Radiance 6" Downlight comes with 5CCT adjustable feature allows to seamlessly switch between five color temperature settings 2700K, 3000K, 3500K, 4000K, and 5000K to match any room's ambiance or lighting requirements. Whether you're upgrading your home, office, or retail space, Our Radiance LED Down Light is designed to deliver superior lighting quality with easy installation and energy efficiency.

Product Features

- Up to 88 Lumens per watt
- CCT adjustable 2700K / 3K / 3500K / 4K / 5K
- Available in 6"
- Triac Dimmable
- Damp Location
- Low profile design fit in any kind of ceiling
- E26 quick connection or junction box
- Ultra-thin design
- White Housing
- Input Voltage 120V
- ETL Listed
- 5 Years Warranty

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Retrofit Downlight



SKU #	Model #	Wattage	Lumens	CCT Adjustable	Size	Input Voltage	Dimming	Certifications
156991	FXF01181	12W	1050Lm	2700K / 3K / 3500K / 4K / 5K	6"	120Vac	Triac Dimmable	ETL

SKU: 156991 / 6" Specifications

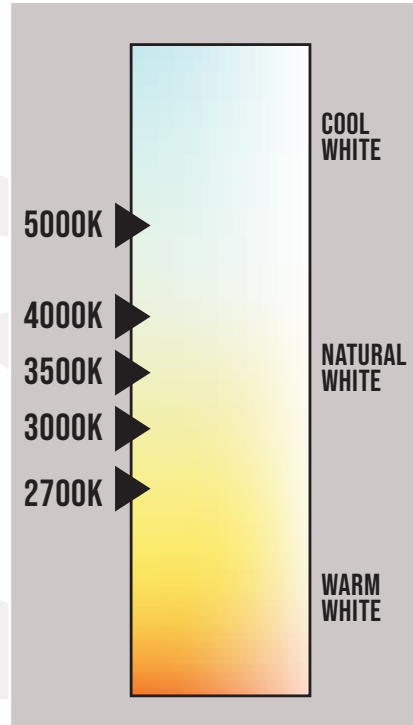
Parameter	Description	Value
General Performance	Model #	FXF01181
	Wattage	12W
	Lumen	1050LM
	Lumen Efficacy	Up to 88LM/W
	Color Temperature	2700K / 3000K / 3500K / 4000K / 5000K
	CRI (Ra)	>80
	Beam Angle	120° Degree
	Diffuser Type	PC Lens
Electrical	Input Voltage	120Vac
	Frequency	50/60Hz
	Dimming	Triac Dimmable
	Power Factor	≥0.7
	Driver Surge Protection	N/A
	Flicker Percent	N/A
Physical	Operating Temperature	-20°C~45°C
	Operating Humidity	≤80%RH
	Storage Temperature	-20°C~65°C
	Storage Humidity	≤95%RH
	LED Brand	MLS
	LED Type	2835
	LED QTY	16+16 PCS
	Housing Material	Plastic
Qualification	Housing Color	White
	IP Rating	Damp Location
	Warranty	5 Years Warranty



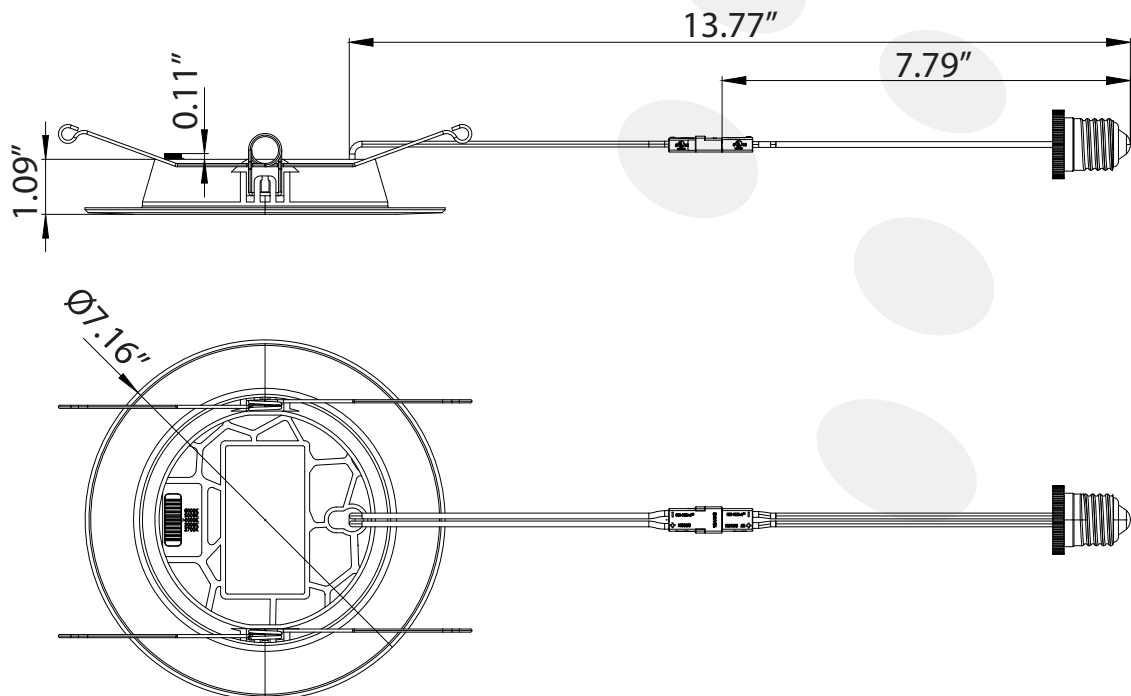
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Correlated Color Temperature (CCT)



Dimensions



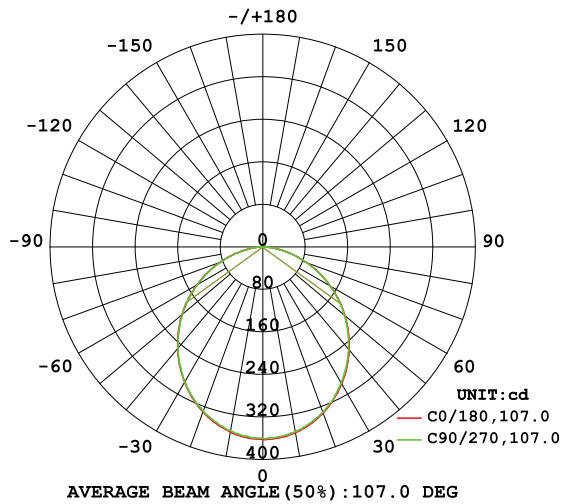
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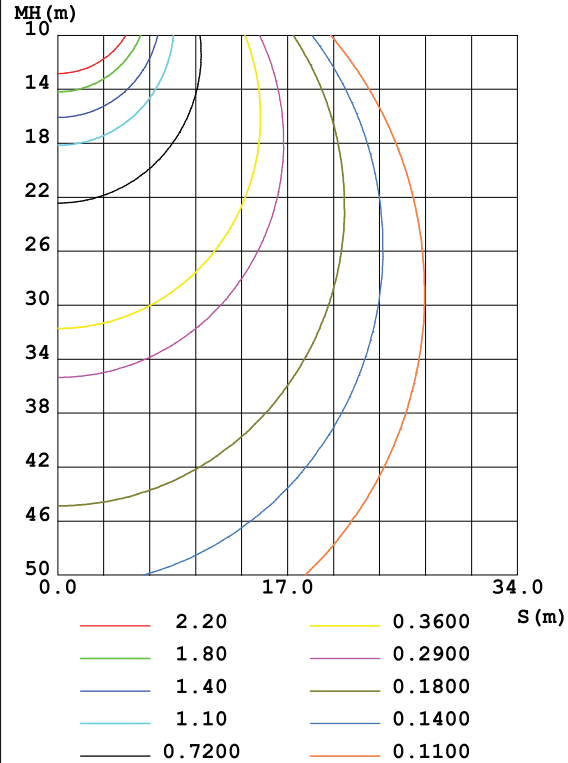


Photometric Data

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 26 August 2024

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.350
Humidity: 55.0%
Test Distance: 8.852m [K=1.0000]
Remarks:

LED RETROFIT DOWNLIGHTS



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Installation

WARNING

SAFETY INFORMATION

- THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS
- NE CONVIENT PAS AUX SORTIES DE SECOURS
- WARNING – RISK OF FIRE OR ELECTRIC SHOCK. INSTALLATION OF THIS RETROFIT KIT REQUIRES A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE LUMINAIRE'S ELECTRICAL SYSTEM AND THE HAZARD INVOLVED. IF NOT QUALIFIED, DO NOT ATTEMPT INSTALLATION.
- CONTACT A QUALIFIED ELECTRICIAN. AVERTISSEMENT – RISQUE D'INCENDIE OU DE CHOC ÉLECTRIQUE. L'INSTALLATION DE CE NÉCESSAIRE DE MODERNISATION EXIGE UNE PERSONNE FAMILIÈRE AVEC LA CONSTRUCTION ET LE FONCTIONNEMENT DU SYSTÈME ÉLECTRIQUE DU LUMINAIRE ET DES RISQUES ASSOCIÉS. TOUTE PERSONNE QUI N'EST PAS QUALIFIÉE NE DOIT FAIRE AUCUNE TENTATIVE D'INSTALLATION ET DOIT CONTACTER UN ÉLECTRICIEN QUALIFIÉ.
- WARNING – RISK OF FIRE OR ELECTRIC SHOCK. INSTALL THIS KIT ONLY IN THE LUMINAIRE THAT HAS THE CONSTRUCTION FEATURES AND DIMENSIONS SHOWN IN THE PHOTOGRAPHS AND/OR DRAWINGS AND WHERE THE INPUT RATING OF THE RETROFIT KIT DOES NOT EXCEED THE INPUT RATING OF THE LUMINAIRE.
- AVERTISSEMENT – RISQUE D'INCENDIE OU DE CHOC ÉLECTRIQUE. N'INSTALLER CE NÉCESSAIRE QUE DANS LE LUMINAIRE DONT LES CARACTÉRISTIQUES DE CONSTRUCTION ET LES DIMENSIONS SONT CONFORME À CELLES ILLUSTRÉES DANS LES PHOTOS ET/OU LES DESSINS ET DONT LA PUISSANCE D'ENTRÉE NOMINALE DU NÉCESSAIRE DE MODERNISATION NE DÉPASSE PAS CELLE DU LUMINAIRE.
- DO NOT MAKE OR ALTER ANY OPEN HOLES IN AN ENCLOSURE OF WIRING OR ELECTRICAL COMPONENTS DURING KIT INSTALLATION.
- IL EST INTERDIT DE FAIRE OU DE MODIFIER UNE OUVERTURE DANS UN BOÎTIER DE CÂBLAGE OU DE COMPOSANTS ÉLECTRIQUES AU COURS DE L'INSTALLATION DU NÉCESSAIRE.

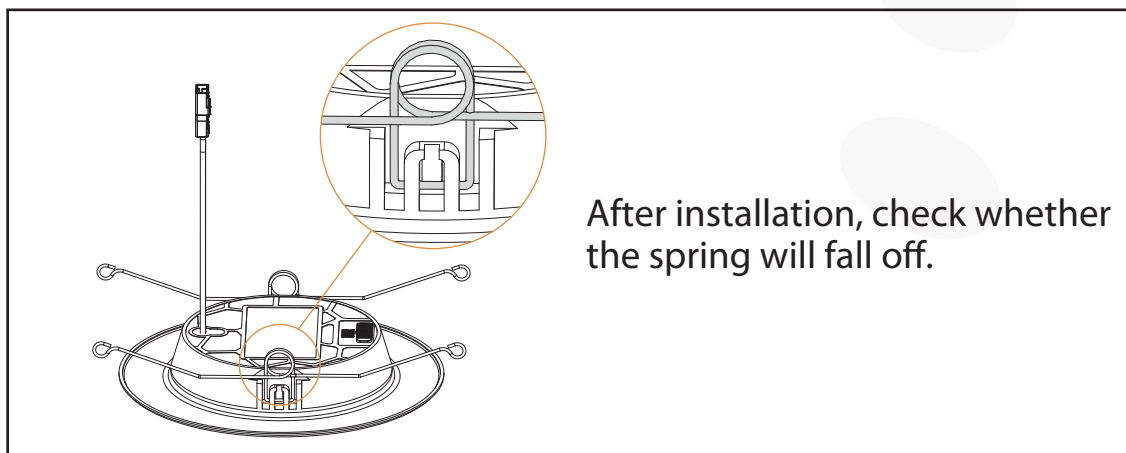
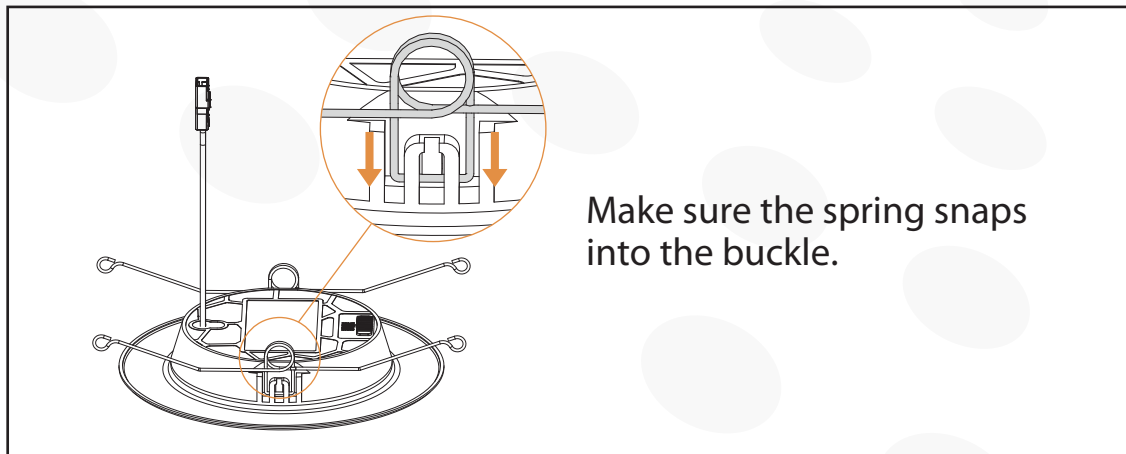
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Installation

ACCESSORIES INSTALLATION

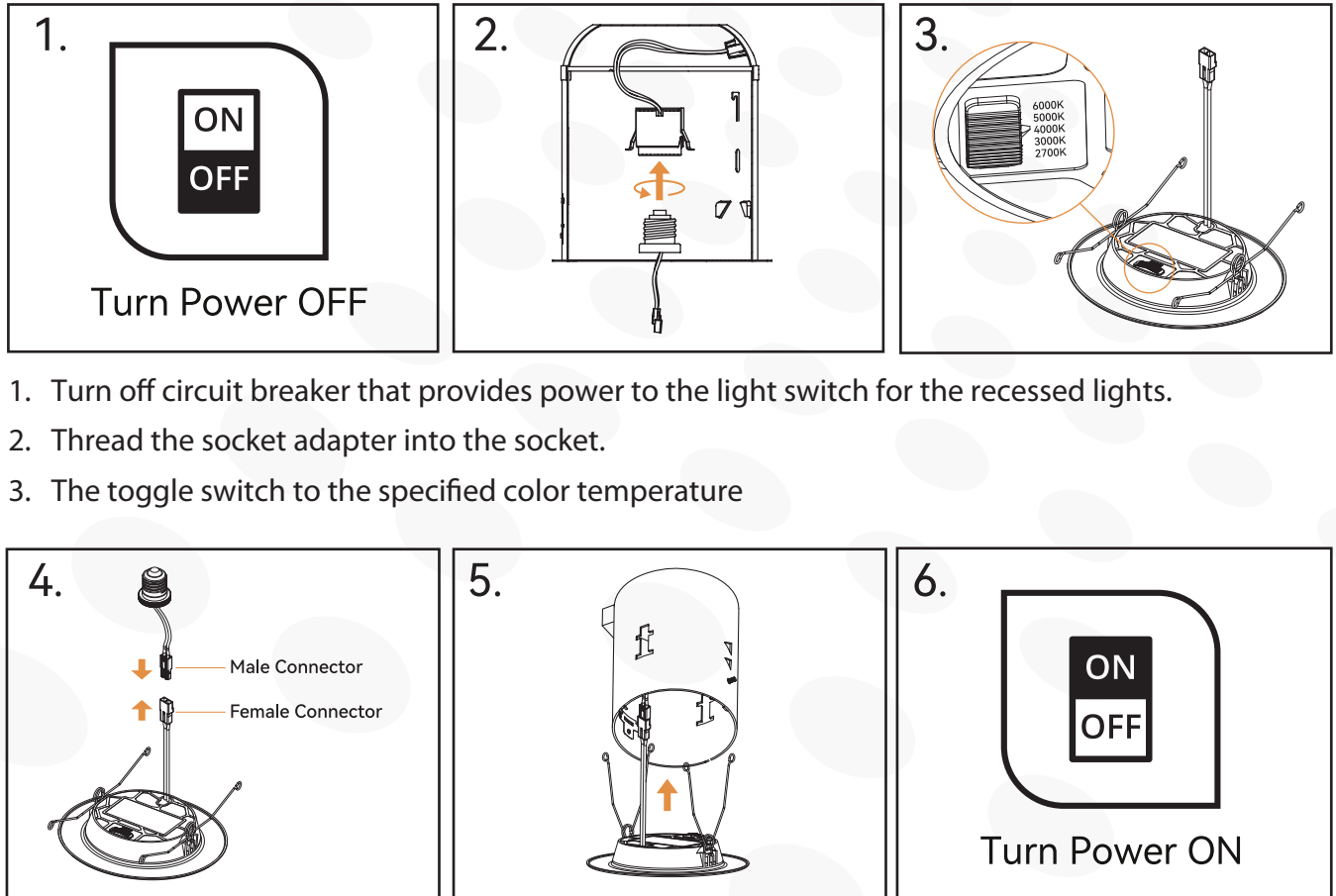




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Installation



1. Turn off circuit breaker that provides power to the light switch for the recessed lights.
2. Thread the socket adapter into the socket.
3. The toggle switch to the specified color temperature

4. Plug the female connector of the retrofit trim onto the male connector of the housing.
5. If using torsion springs, squeeze both torsion spring arms together and insert into the torsion spring slots (or c-clips) of the can. Tuck all wires into the can and carefully push the retrofit trim into can (Note: to provide enough room in shallow cans carefully position SOCKET ADAPTER and SOCKET adjacent to the side of the LED DRIVER prior to inserting the RETROFIT TRIM into the CAN).
6. Turn on circuit breaker and test light

WARNING

- WARNING – TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS.
- AVERTISSEMENT – AFIN DE PRÉVENIR L'ENDOMMAGEMENT OU L'ABRASION DES CÂBLES, ÉVITER TOUT CONTACT ENTRE CES DERNIERS ET LE BORD D'UN OBJET TRANCHANT TEL QU'UNE TÔLE.

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Installation

DIMMER COMPATIBILITY GUIDE

Brand	Model	Star Rating
LUTRON	PD6WCL	★ ★ ★ ★ ↱
	MSCL-OP153M	★ ★ ★ ★ ↱
	CN-600P	★ ★ ★ ★ ↱
	DVCL-153P2.1	★ ★ ★ ★ ↱
	SCL-600P	★ ★ ★ ★ ↱
	SLV-600P	★ ★ ★ ★ ↱
	MACL-153M	★ ★ ★ ★ ↱
	DV-600P	★ ★ ★ ★ ↱
LEVITON	IPL06	★ ★ ★ ★ ↱
	DSL06	★ ★ ★ ★ ↱
	IPI06	★ ★ ★ ★ ↱
	6674	★ ★ ★ ★ ↱
	6631	★ ★ ★ ★ ↱



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PROBLEMS AND COUNTERMEASURES

PROBLEM	PROBABLE CAUSE	SOLUTION
Unlit	The wire falls off/loosens/breaks	Check that the wires are well connected
	The power switch is not turned on	Make sure the power switch is on
	The light holder in the UL cans is damaged	Check and replace with a new light holder
	Loose connection between E26 adapter and light base	Check the E26 adapter and light holder are well installed
	Loose connection on TP24 connector	Change the TP24 connector
	The voltage is too high and the product is damaged	Make sure the voltage is 120V
	None of the above	Reach out to our Customer Support
Dim	The wire falls off/loosens/breaks	Check the wires are well connected
	Incompatible dimmer	Check the dimmer model with the manual
	Not setting the dimmer right	Check dimmer settings
	Too many lights are connected to one dimmer	Reduce the number of lights connected to a dimmer (the total power of the lights should be less than 75% of the rated power of the dimmer)
	The brightness of lighting is too low	Install more lights 4inch: 2-4ft; 6inch: 5-7ft
	The brightness of lighting is too high	Turn down the dimmer or reduce the number of lights on at the same time
	Voltage is too low	Check the voltage to make sure it is 120V
	Loose connection between E26 adapter and light base	Check the E26 adapter and light holder are well installed
	The light is not installed correctly	Check the installation of the light, to ensure that the springs and other parts are normal
Flickering	The wire falls off/loosens/breaks	Check the wires are well connected
	Incompatible dimmer	Check the dimmer model with the manual
	Not setting the dimmer right	Check dimmer settings
	Too many lights are connected to one dimmer	Reduce the number of lights connected to a dimmer (the total power of the lights should be less than 75% of the rated power of the dimmer)
	High-power electrical appliances on the same circuit	Reduce the number of lights light on the same time
	Voltage is too low	Check the line voltage to make sure the voltage is 120V
	Loose connection between E26 adapter and light base	Check the E26 adapter and light holder are well installed
Falls	No C-clamp on the can	Replace the can, or install the C-clamp
	The can has C-clamp but the spring was not fixed in the clamp	Re-install
	The spring is loose	Reach out to our Customer Support

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Packaging

SKU #.	Box Type	Product Size	Dimension (Inches)	Qty	Net Weight	Gross Weight
156991	Inner Box	6"	13.38 x 2.67 x 7.36	4	0.95 LBS	1.43 LBS
	Outer Box	6"	13.38 x 8.66 x 7.87	6	2.84 LBS	5.14 LBS

Warranty

5 Years Warranty



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Application Image



LED RETROFIT DOWNLIGHTS