FLS-3 FUSION™ CLOSET ROD
WARDROBE FITTING

INSTALLATION

Before installation, disconnect electrical power at a main switch or circuit breaker.

IMPORTANT SAFETY INSTRUCTIONS

1. Read Installation Instructions completely.
2. Disconnect electrical power at main switch or circuit breaker.
3. Ensure a qualified electrician will perform all electrical procedures.
4. Contact Lucifer Lighting Company with any questions or concerns.

DESCRIPTION

The FLS-3 is a custom fabricated LED illuminated closet rod. It is a Class II lighting system and must be installed in accordance with these installation instructions and all applicacable electrical codes.

CENTER SUPPORT BRACKET

FLS-3 is available in lengths from 12" (305mm) to 60" (1524mm). Model FLA-CS1 center support bracket is optional in installations under 36" (914mm) and required for installations greater than 36" (914mm).

REMOTE POWER SUPPLIES

FLS-3 must be operated with the following power supplies, depending on specified length:

For lengths up to 28" (711mm)
PSLED-S (plug-in)
PSA-LED-10DC-10-H (hardwire)
For export markets use equivalent LED power supply; nominal 10VDC, 1000mA

For lengths up to 60" (1524mm)
PS-LED-10V-50-H (hardwire)
For export markets use equivalent LED power supply; nominal 10VDC, 0.4-50W

PRECAUTIONS

Care must be taken to protect the FLS-3 LED supply wires from damage during installation.

All mounting surfaces are to be flat and structurally sound.

The mounting screws supplied with the kit are intended for maximum drywall/ plasterboard thickness of .62" (15.7mm). Appropriately longer screws must be obtained and installed if thicker drywall is encountered.

All screw connections are to be made in suitable structural framing or blocking. **DO NOT ATTEMPT TO USE DRYWALL ANCHORS.**

The maximum allowable load for the FLS-3 assembly is 33 lbs. (15kg) per lineal foot (305mm).

A maximum of .75" (19mm) may be trimmed from the end of the rod housing **opposite** the wire exit. (See page 5)

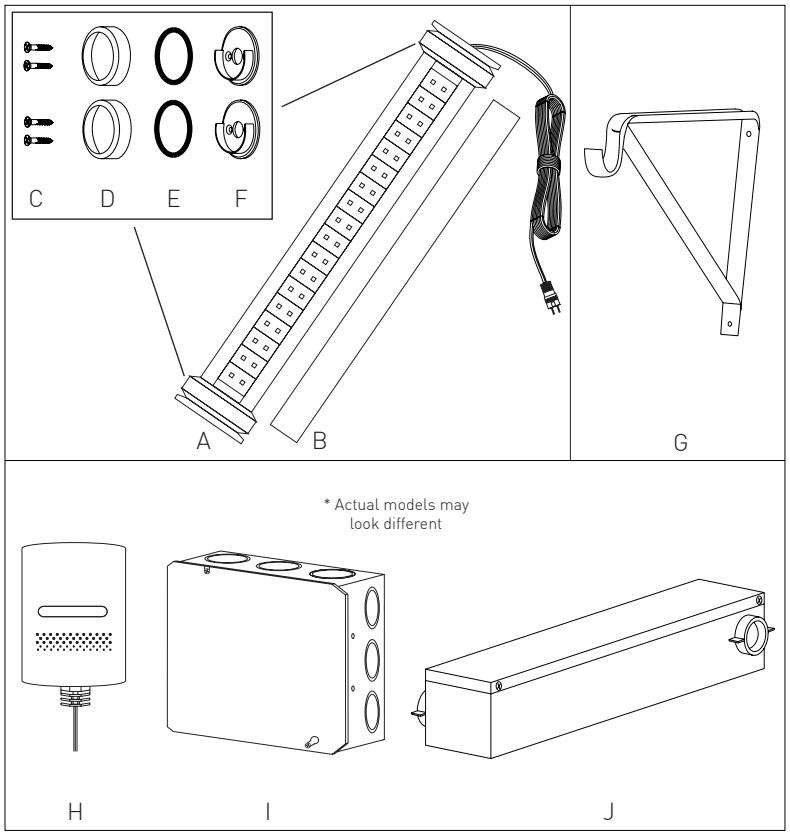
READ THE FOLLOWING NOTES before beginning any FLS-3 Installation:

- Power supplies are intended for use on a properly fused 100-265 VAC 50/60 Hz supply circuit.
- Power supplies should be located in a readily accessible location not more than 40' (12.2m) from FLS-3. **Minimum 14 AWG supply wire.**
- When choosing a power supply location, factor the total distance that the LED supply wire must travel to reach FLS-3. Wire routes are rarely a straight line.
- Each FLS-3 is supplied with a factory installed LED supply lead wire 6' (1829mm) in length.
- The factory supplied lead wire may be cut or lengthened to no more than 40' (12.2m) if necessary. **Minimum 14 AWG wire.** However undesirable variations in light output may result if the leads to multiple FLS-3 fittings are not of a uniform length.
- FLS-3 is designed as a system and must be installed in accordance with these instructions, using Lucifer Lighting Company specified components only.
- Failure to follow the Installation Instructions and use Lucifer Lighting Company specified components could result in an unsafe installation and void the manufacturer's Warranty.

LUCIFER LIGHTING COMPANY

PARTS IDENTIFICATION

PART ID	DESCRIPTION	QTY
A	Rod housing with light strip	1
B	Cover lens	1
C	Mounting screws	4
D	End cap	2
E	O-rings	2
F	Wall mounts	2
G	Center support bracket FLA-CS1	1
	Power supply (specified)*	1
H	PSLED-S	
I	PSA-LED-10DC-10-H	
J	PS-LED-10V-50-H	



STEP 1

Closet rod centerline is to be **11.75" (299mm)** from rear wall.

Determine closet rod height. See Figure 1.

STEP 2

Using provided template, locate wire hole center point on wall chosen for LED supply wire exit from closet rod.

STEP 3

Note: Ensure mounting screws will engage structurally sound framing or blocking.

Drill two 5/64" (2mm) diameter pilot holes on each wall at mounting screw locations.

Drill a 1/2" (13mm) diameter access hole at location chosen for LED supply wire exit from closet rod.

STEP 4

Secure wall mounts to closet walls with provided screws, ensuring cradle lip faces up. See Figure 2.

Check that wall mounts are same height and depth within closet.

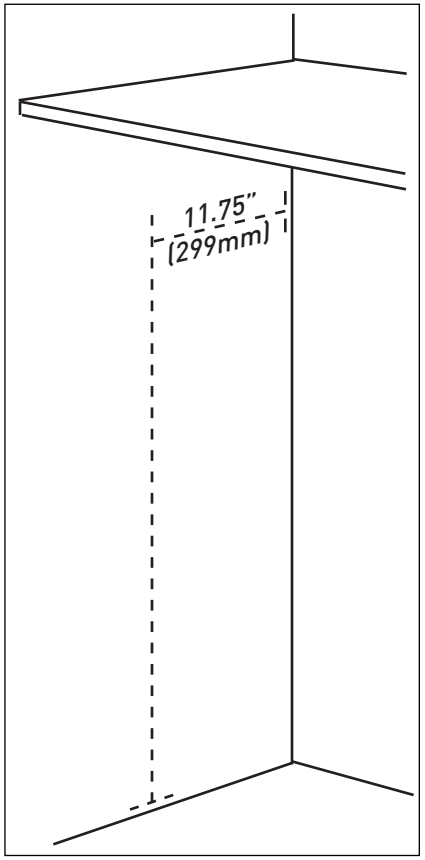


Figure 1 - Closet Rod height

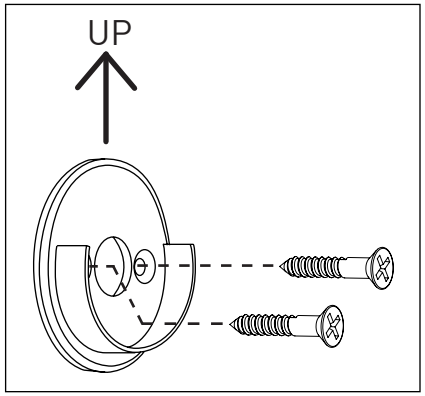


Figure 2 - Wall mounts

STEP 5

For exact closet rod fitment to wall mounts, it may be necessary to trim rod housing length; up to .75" (19mm).

Measure distance between flat surfaces (where screws are seated) of end mounts.

Subtract 1/16" (1.6mm) from measured dimension to obtain closet rod cut length. Rod length in excess of this measurement will need to be cut.
See Figure 3.

STEP 6

Transfer cut length to closet rod housing. Mark cut line on side opposite LED supply wire exit.
DO NOT CUT WIRE EXIT END.
See Figure 4.

Note: A piece of masking tape applied to housing surface will aid in accurate dimensioning.

STEP 7

When proper dimension is marked and verified, a hacksaw or fine bladed "chop saw" may be used to make cut. **DO NOT USE AN ABRASIVE SAW.** Cut must be square.
See Figure 5.

STEP 8

After cutting, use file to remove burrs or sharp edges. Carefully clean metal dust or chips from rod housing.

Note: Failure to clean metal chips after cutting may lead to permanent fixture damage.

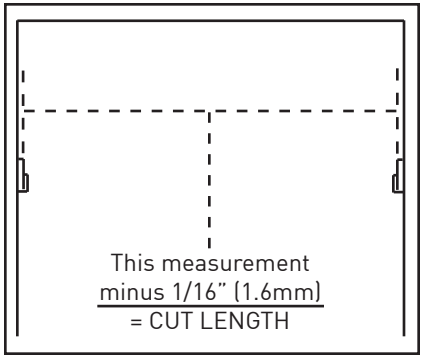


Figure 3.

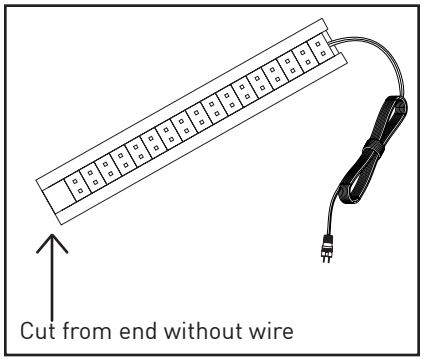


Figure 4.

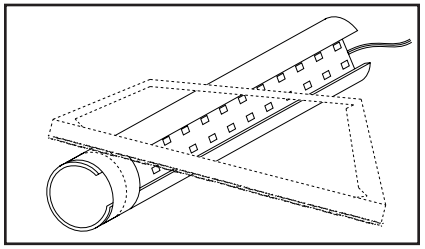


Figure 5.

STEP 9

Lens cover may be marked, cut and cleaned in same manner.

Slide lens cover into rod housing.
See Figure 6.

STEP 10

Route a guide lead (string, small wire, "fish tape", etc.) from power supply location to end mount with wire hole.

STEP 11

Seat O-rings into end caps and slide end caps over closet rod housing with threaded side facing out.
See Figures 7, 8.

STEP 12

Attach LED supply wire exiting closet rod to guide lead at end mount and lead wire to power supply location.
See Figure 9.

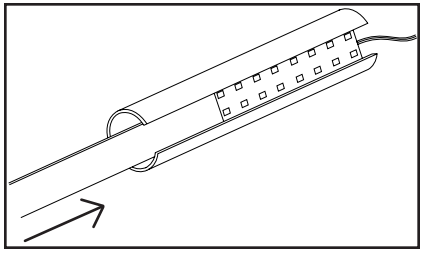
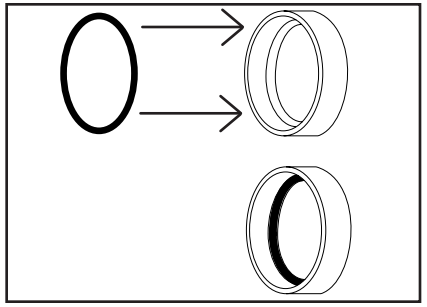


Figure 6.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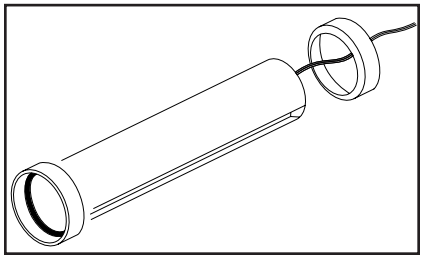
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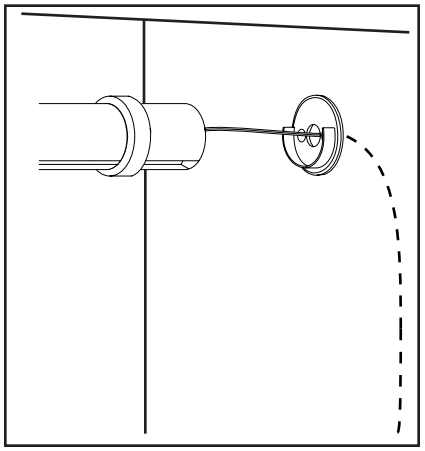
Figure 9.

STEP 13

Position rod housing assembly above end mounts with notched end/lens facing down.
See Figure 10.

STEP 14

Carefully ease remainder of LED supply wire through wall mount and access hole while bringing rod housing assembly to rest on wall mounts.

Note: Ensure supply wire is not pinched or cut while seating rod housing.

STEP 15

Ensure rod housing position has lens facing down. Slide end caps outward to wall mounts. Turn end caps clockwise onto wall mounts and tighten. Rod housing should not rotate freely upon tightening.
See Figure 11.

CENTER SUPPORT BRACKET

In installations where closet rod length is over 36" (914mm), Model FLA-CS1 center support bracket must be used to achieve maximum design load rating.
See Figure 12.

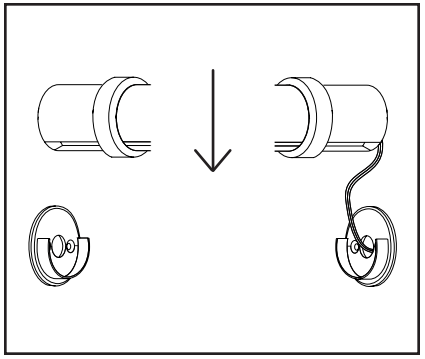

Figure 10.

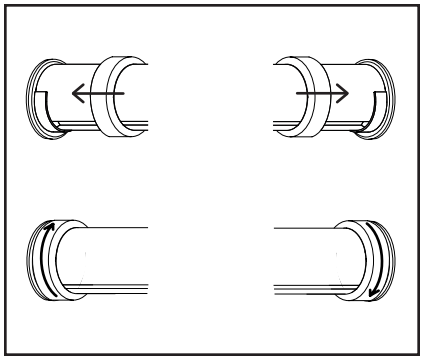

Figure 11.

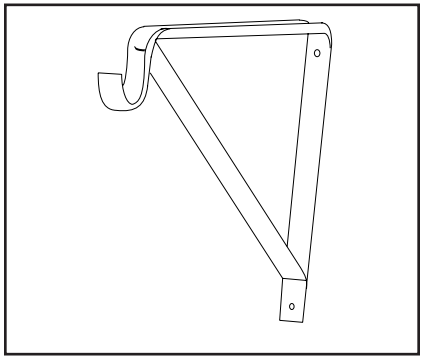

Figure 12.

STEP 16

Locate bracket at mid-length of closet rod which can be no more than 36" (914) from either side.

Center support bracket cradle height must equal wall mount cradle height.
See Figure 13.

Note: Ensure center support bracket will be mounted to structurally sound framing or blocking.

STEP 17

Secure support bracket with mounting screws. Closet rod should rest evenly on both wall mounts and center support bracket.
See Figure 14.

PLUG-IN POWER SUPPLY

PSLED-S
Note: For closet rod lengths of 28" (711mm) or less.
PSLED-S has a 6' (1829mm) lead wire.

Join power lead connectors and plug power supply into switched outlet.
See Figure 15.

Note: Ensure proper polarity is maintained by mating the non-striped side of the male end to the (-) negative marked side of the female end.

Wiring is complete, energize the circuit.

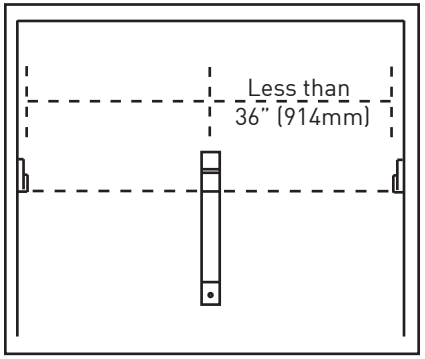

Figure 13.

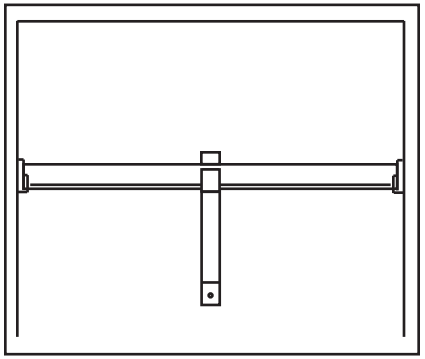

Figure 14.

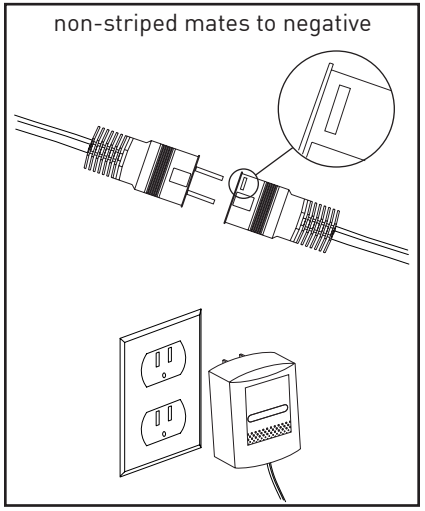

Figure 15.

PSA-LED-10DC-10-H
Note: For closet rod lengths of 28" (711mm) or less.

Transformer is housed in steel enclosure. Access power supply internals by removing cover screws and setting cover aside.
See Figure 16.

WIRING
See Figure 17.

Note: Both yellow wires are factory capped. Do not alter this configuration.

Primary wiring:
Route the primary supply wires through an appropriate knock-out and strain-relief. Connect white to white, black to black, and green to the grounding stud or green grounding wire of the power supply.

Secondary wiring:
Connect red to the striped positive (+) LED supply wire of closet rod.
Connect blue to the non-striped negative (-) LED supply wire of closet rod.

Wiring is complete, energize the circuit.

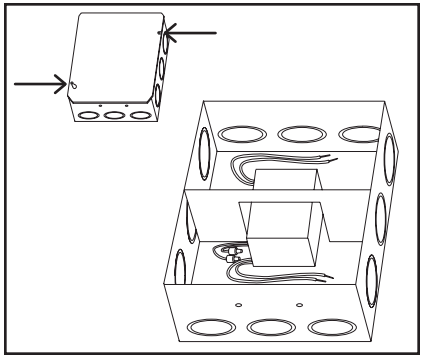

Figure 16.

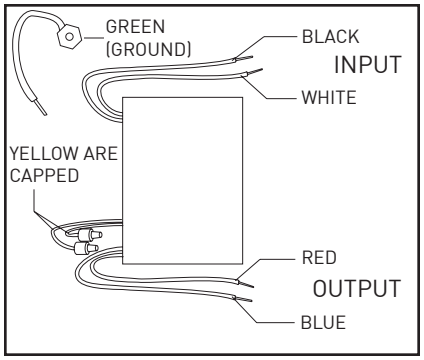

Figure 17.

PS-LED-10V-50-H
Note: For closet rod lengths up to 60" (1524mm).

Transformer is housed in steel enclosure. Access power supply internals by removing cover screws and setting cover aside.
See Figure 18.

WIRING
See Figure 19.

Primary wiring:
Route the primary supply wires through enclosure strain-reliefs. Connect white to white, black to black, and green to the grounding stud or green grounding wire of the power supply.

Secondary wiring:
Connect red to the striped positive (+) LED supply wire of closet rod.
Connect blue to the non-striped negative (-) LED supply wire of closet rod.

Wiring is complete, energize the circuit.

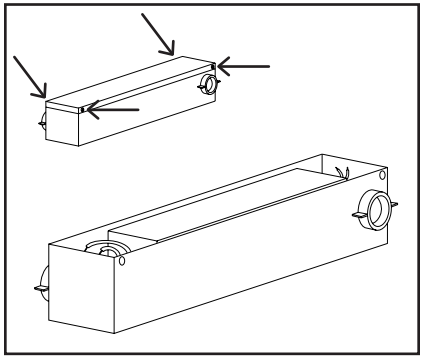

Figure 18.

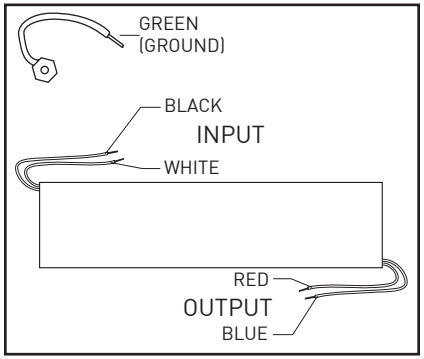

Figure 19.

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