RAYON LIGHTING

RFL3
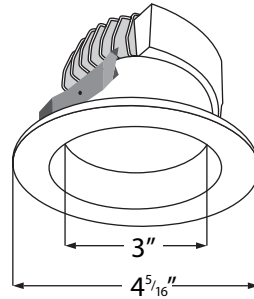## 3" LED Recessed Module
800 Lumens

PROJECT:

MODEL #:

LOCATION:

CONTACT:

DIMENSIONS

3"

$4^5/_{16}$"

Use of Product
The Versatrim RFL3 Series is the ideal product for energy efficient lighting in existing, remodel, or new construction housings. This product may be used in hospitality, health care, commercial, retail, and residential applications. The Versatrim will reduce energy consumption, emits little heat, and reduces cooling loads for added costs savings. Approximately 75% in energy savings compared to incandescent light source.

Versatrim Features
- Watts: 10.5 W
- Lumens: 800 Lumens
- Voltage: (120V standard); 120-277V (with optional 0-10V dimming driver)
- Color Temperature: 2700K, 3000K, 3500K, or 4000K
- Color Rendering Index: 93+ CRI Typical
- SDCM: 2 Step binning
- R9 Value: 85
- LED Life: 50,000 hours
- LED Type: Cree LED for maximum light output
- Versatility: Interchangeable baffle, reflector, and trim ring in round and square.
- EM Battery: 90 min, 800 lumens only.
- Warranty: 5 Year Limited Warranty.
- Wet Location Certified.

LED Driver
Durable 120V dimmable driver provides high power factor with the optimum thermal management to prevent damage caused by high temperature. Driver protections include: output open load, over-current and short circuit, and over temperature with auto recovery.

Dimming
Available in 8 driver selections. Standard Triac/ELV, 120V. (018) 0-10V dimming in 800 lumens, 120-277V. (PEQ0) Lutron Hi-Lume Premier Ecosystem 0.1% w/soft on, fade to black dimming, 120-277V. (LDE1) Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming, 120-277V. (LTE) Hi-Lume 1% 2-wire, 120V (L3DA) Hi-lume 1% EcoSystem/3-Wire L3D Driver (EEI) eldoLED Eco 1% Dim (0-10V), 120-277V. (EDIO) eldoLED Solo 0.1% Dim(0-10V), 120-277V. (EDID) eldoLED Solo 0.1% Dim(DALI), 120-277V.

Electrical Connection
LED module quick connect allows easy connection to Rayon LED housing. Optional edison screw base or GU24 adaptor available for retrofit applications.

Emergency Battery
Optional emergency battery with up to 90 minute illumination time. 800 lumens only.

Mounting
Torsion springs supplied for convenient mounting to existing, remodel, or new construction housing.

Module Mechanics
The RFL3 Series is constructed of durable heat sink, baffle or reflector, trim ring, diffused lens and Cree LEDs for optimum performance. Interchangeable round or square baffle, reflector, and trim ring are designed for convenient color selection and replacement in the field. Diffused, polycarbonate, impact-resistant lens provides for even light output, glare control, and conceals LEDs from view

Labels/Compliance
-CSA Classified for wet location
-LM79 and LM80
-Can be used for state of California Title 24 compliance
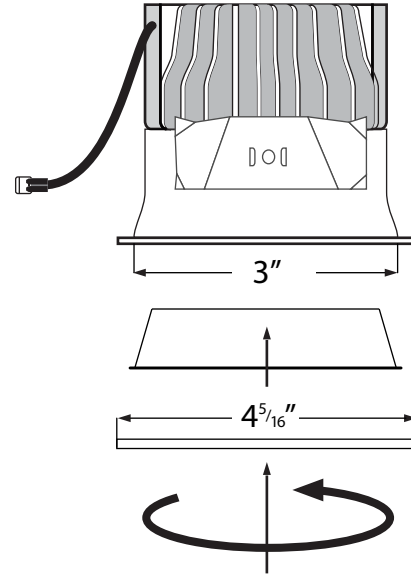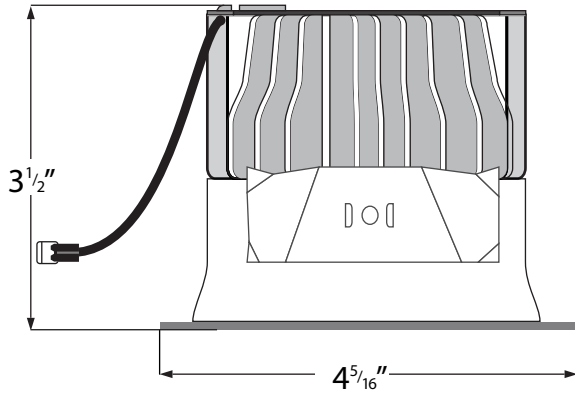-JA8 Certified

ORDERING INFO

RFL3	8L				Baffle or Reflector	Trim
Series	Lumens	Color Temp.	Dimming			

Series	Lumens	Color Temp.	Dimming				Baffle	or	Reflector	Trim
RFL3	8L - 800 Lumens (120V)	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	**Leave blank** - Triac/ELV **018**[1] - 0-10V Dimming (800 lumens) **PEQ0**[1] - Lutron Hi-Lume Premier Ecosystem 0.1% w/soft on, fade to black dimming **LDE1**[1] - Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming **LTE**[1,2] - Hi-Lume 1% 2-wire **L3DA**[1] - Hi-lume 1% EcoSystem/3-Wire L3D Driver **EEI**[1,3] - eldoLED Eco 1% Dim (0-10V) **EDIO**[1,3] - eldoLED Solo 0.1% Dim (0-10V) **EDID**[1,3] - eldoLED Solo 0.1% Dim (DALI)						

ROUND

Baffle	Reflector	Trim
3BLW - White **3BLSN** - Satin Nickel **3BLC** - Copper **3BLB** - Black **3BLBZ** - Bronze	**3RLW** - White **3RLCH** - Chrome **3RLSN** - Satin Nickel **3RLC** - Copper **3RLB** - Black **3RLBZ** - Bronze **3RLH** - Haze **3RLCX** - Custom	**3TLW** - White **3TLSN** - Satin Nickel **3TLC** - Copper **3TLB** - Black **3TLBZ** - Bronze **3TLH** - Haze **3TLCX** - Custom

SQUARE

Baffle	Reflector	Trim
3SBLW - White **3SBLB** - Black	**3SRLW** - White **3SRLB** - Black **3SRLH** - Haze **3SRLSN** - Satin Nickel **3SRLCH** - Chrome **3SRLBZ** - Bronze **3SRLCX** - Custom	**3STLW** - White **3STLB** - Black **3STLH** - Haze **3STLSN** - Satin Nickel **3STLBZ** - Bronze **3STLCX** - Custom

1. Requires dedicated housing.
2. 120V only.
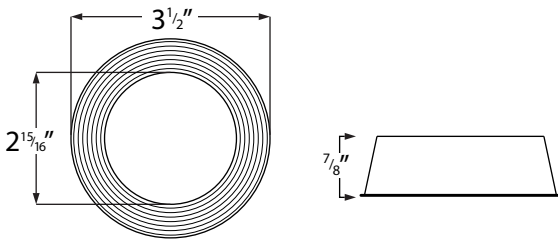3. Must specify logarithmic or linear eldoLED diver.

Options
SBA - Screw base adapter (Included)
G-24 - GU24 adapter
277SDT[1] - 277V Step down transformer
347SDT[1] - 347V Step down transformer
EM[1] - Emergency back-up

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tel: 323.446.2626
fax:323.446.2606
Specification and product availability subject to change without notice
03/21

RAYON LIGHTING

NEW CONSTRUCTION/REMODEL DIMENSIONS

$3^1/_2$"

$4^5/_{16}$"

3"

$4^5/_{16}$"

Round

Baffle/Reflector

$3^1/_2$"

$2^{15}/_{16}$"

$7/_8$"

Trim

$4^3/_8$"

$3^{41}/_{128}$"

$7/_{32}$"

Square

Baffle/Reflector

$2^3/_4$"

2"

$7/_8$"

Trim

$4^3/_8$"

$2^{45}/_{128}$"

$13/_{64}$"

Specification and product availability
subject to change without notice

RAYON LIGHTING

RFL3
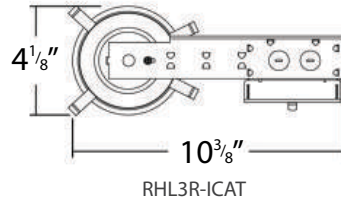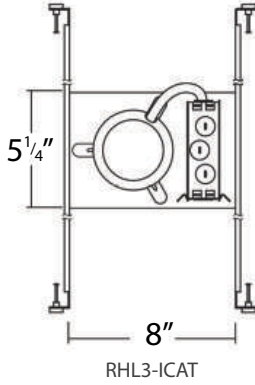## 3" LED Recessed Module
800 Lumens
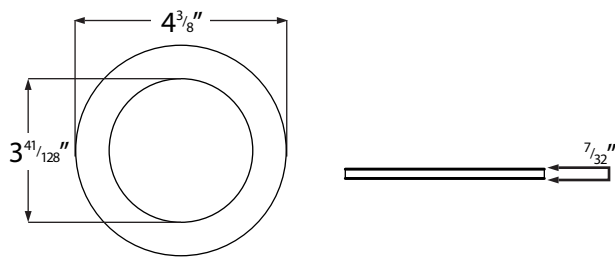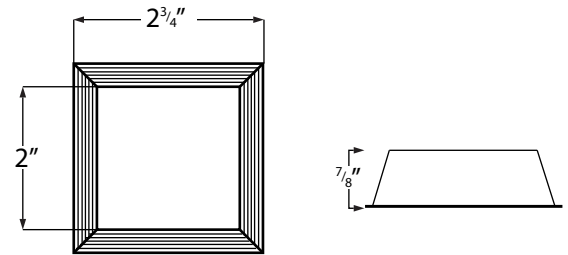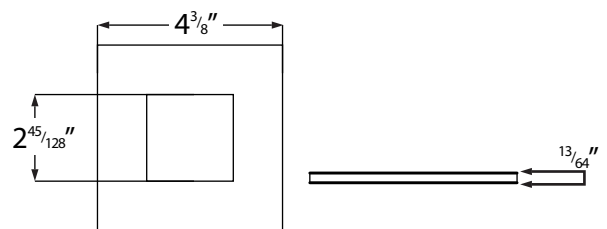
PROJECT:
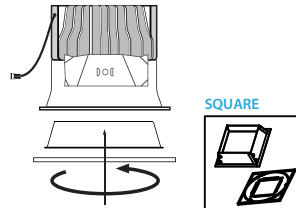
MODEL #:

LOCATION:

CONTACT:

COMPATIBLE RAYON 3" HOUSING

COMPATIBLE RAYON 3" HOUSINGS

RHL3-ICAT - 3" IC Air Tight New Construction LED HOUSING
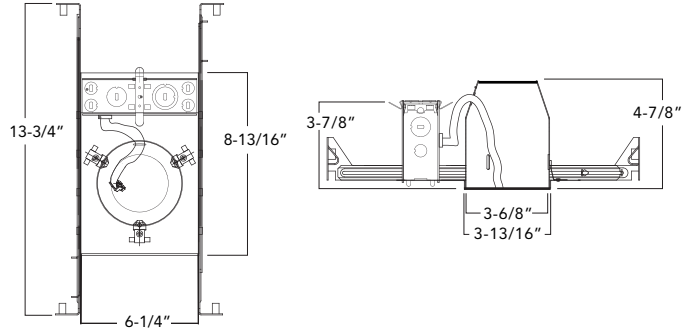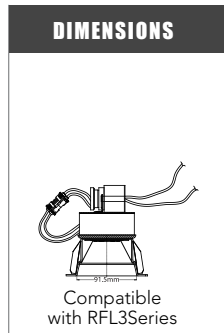**RHL3R-ICAT -** 3" IC Air Tight Remodel LED HOUSING
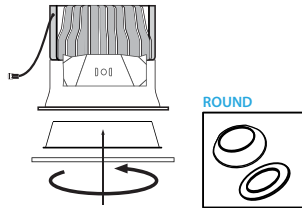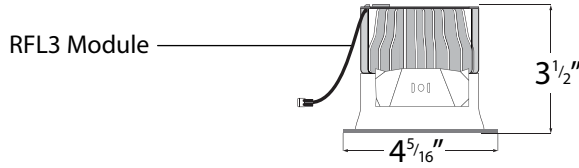
$5^1/_4$"

8"

RHL3-ICAT

$4^1/_8$"

$10^3/_8$"

RHL3R-ICAT

RFL3 Module

$3^1/_2$"

$4^5/_{16}$"

ROUND

OR

SQUARE

RHL3 -ICAT
3" IC Air-tight
New Construction LED Housing

DIMENSIONS

Compatible with RFL3Series

13-3/4"
8-13/16"
6-1/4"
3-7/8"
3-6/8"
3-13/16"
4-7/8"

USE OF PRODUCT
The RHL3-ICAT is the ideal product for general purpose recessed LED housing for residential, commercial, hospitality, health care, restaurant and retail applications. This product is compatible with the Versatrim RFL3 Series in round or square in various baffle, reflector, and trim ring color selections to achieve a particular look.

CONSTRUCTION
• Minimum Clearance "IC" or insulated ceiling housings are rated for direct contact with insulation. No minimum clearance is required.
• CEILING THICKNESS Up to 1¼"
• BAR HANGERS Bar Hangers are adjustable from 13-5/8"to 25" and can be repositioned to 90°.
• JUNCTION BOX Junction box is listed for through branch circuit wiring and contains seven 7/8 knockouts and four ROMEX pryouts
with strain relief.
• PLASTER FRAME Galvanized steel construction
• CONNECTION Quick connect provided for easy connection to Versatrim RFL4 Series LED module to meet non-screw base socket requirements per California Title 24.

DIMMING
Available in 10 driver selections. Standard Triac/ELV, 120V. (018) 0-10V dimming in 800 lumens, 120-277V. (PEQ0) Lutron Hi-Lume Premier Ecosystem 0.1% w/soft on, fade to black dimming, 120-277V. (PEQ1) Lutron Hi-Lume Premier 1% w/soft on, fade to black dimming, 120-277V. (LDE1) Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming, 120-277V. (LDE5) Lutron Hi-Lume 5% Ecosystem, 120-277V. (LTE) Hi-Lume 1% 2-wire, 120V (L3DA) Hi-lume 1% EcoSystem/3-Wire L3D Driver (EEI) eldoLED Eco 1% Dim (0-10V), 120-277V. (EDIO) eldoLED Solo 0.1% Dim(0-10V), 120-277V. (EDID) eldoLED Solo 0.1% Dim(DALI), 120-277V.

EMERGENCY
Optional emergency back-up may be ordered separately. Unit operates for 90 minutes with LED modules up to 20 Watts and is Damp location rated , 120/277AC operational.

MODULE COMPATIBILITY
RHL3-ICAT is compatible with the Versatrim RFL3 Series in round or square in various baffle, reflector, and trim ring color selections to achieve appearance of choice.

LABELS/COMPLIANCE
cUL listed for Wet location
Certified under ASTM-283 for Air-Tight construction
Title 24 Compliant

ORDERING INFO

RHL3-ICAT

1. 120V only.
2. Must specify logarithmic or linear eldoLED diver.

Series	Dimming	Options
RHL3-ICAT - 3" IC Air-Tight New Construction LED Housing	**Leave blank** - Triac/ELV **018** - 0-10V Dimming (800 lumens) **PEQ0** - Lutron Hi-Lume Premier Ecosystem 0.1% w/soft on, fade to black dimming **PEQ1** - Lutron Hi-lume Premier 1% w/soft on, fade to black dimming **LDE1** - Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming **LDE5** - Lutron Hi- Lume 5% Ecosystem **LTE[1]** - Hi-Lume 1% 2-wire **L3DA** - Hi-lume 1% EcoSystem/3-Wire L3D Driver **EEI[2]** - eldoLED Eco 1% Dim (0-10V) **EDIO[2]** - eldoLED Solo 0.1% Dim (0-10V) **EDID[2]** - eldoLED Solo 0.1% Dim (DALI)	**EM** - Emergency battery **277SDT** - 277V Step down transformer **347SDT** - 347V Step down transformert

RAYON LIGHTING

RHL3R-ICAT
3" IC Air-tight
Remodel LED Housing

PROJECT:

MODEL #:

LOCATION:

CONTACT:

DIMENSIONS

Compatible with RFL3 Series

91.5mm

11-1/2"

4-3/16"

5-1/16"

3-5/8"

4-3/16"
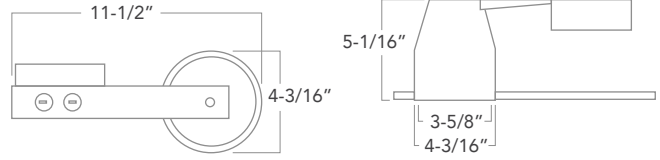
USE OF PRODUCT
The RHL3R-ICAT is the ideal product for general purpose recessed LED housing for residential, commercial, hospitality, health care, restaurant and retail applications. This product is compatible with the Versatrim RFL3 Series in round or square in various baffle, reflector, and trim ring color selections to achieve a particular look.

CONSTRUCTION
• Minimum Clearance "IC" or insulated ceiling housings are rated for direct contact with insulation. No minimum clearance is required.
• CEILING THICKNESS Up to 1¼"
• BAR HANGERS Bar Hangers are adjustable from 13-5/8"to 25" and can be repositioned to 90°.
• JUNCTION BOX Junction box is listed for through branch circuit wiring and contains seven 7/8 knockouts and four ROMEX pryouts with strain relief.
• PLASTER FRAME Galvanized steel construction
• CONNECTION Quick connect provided for easy connection to Versatrim RFL3 Series LED module to meet non-screw base socket requirements per California Title 24.

DIMMING
Available in 10 driver selections. Standard Triac/ELV, 120V. (018) 0-10V dimming in 800 lumens, 120-277V. (PEQ0) Lutron Hi-Lume Premier Ecosystem 0.1% w/soft on, fade to black dimming, 120-277V. (PEQ1) Lutron Hi-Lume Premier 1% w/soft on, fade to black dimming, 120-277V. (LDE1) Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming, 120-277V. (LDE5) Lutron Hi-Lume 5% Ecosystem, 120-277V. (LTE) Hi-Lume 1% 2-wire, 120V (L3DA) Hi-lume 1% EcoSystem/3-Wire L3D Driver (EEI) eldoLED Eco 1% Dim (0-10V), 120-277V. (EDIO) eldoLED Solo 0.1% Dim(0-10V), 120-277V. (EDID) eldoLED Solo 0.1% Dim(DALI), 120-277V.

EMERGENCY
Optional emergency back-up may be ordered separately. Unit operates for 90 minutes with LED modules up to 20 Watts and is Damp location rated , 120/277AC operational.

MODULE COMPATIBILITY
RHL3R-ICAT is compatible with the Versatrim RFL3 Series in round or square in various baffle, reflector, and trim ring color selections to achieve appearance of choice.

LABELS/COMPLIANCE

cUL listed for Wet location
Certified under ASTM-283 for Air-Tight
Construction Title 24 Compliant

ORDERING INFO

RHL3R-ICAT

1. 120V only.
2. Must specify logarithmic or linear eldoLED diver.

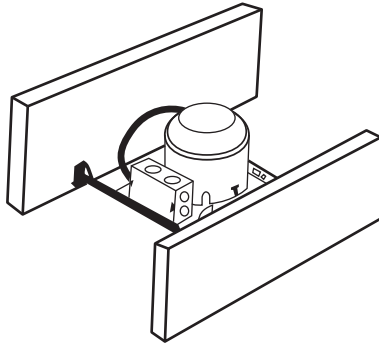| Series	Dimming		Options
RHL3R-ICAT - 3" IC Air-Tight Remodel LED Housing	**Leave blank** -	Triac/ELV	**EM** - Emergency battery
	018 -	0-10V Dimming (800 lumens)	**277SDT** - 277V Step down transformer
	PEQ0 -	Lutron Hi-Lume Premier Ecosystem 0.1% w/soft on, fade to black dimming	**347SDT** - 347V Step down transformert
	PEQ1 -	Lutron Hi-lume Premier 1% w/soft on, fade to black dimming	
	LDE1 -	Lutron Hi-Lume 1% Ecosystem with soft on, fade to black dimming	
	LDE5 -	Lutron Hi- Lume 5% Ecosystem	
	LTE[1] -	Hi-Lume 1% 2-wire	
	L3DA -	Hi-lume 1% EcoSystem/3-Wire L3D Driver	
	EEI[2] -	eldoLED Eco 1% Dim (0-10V)	
	EDIO[2] -	eldoLED Solo 0.1% Dim (0-10V)	
	EDID[2] -	eldoLED Solo 0.1% Dim (DALI)	

RAYON LIGHTING

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Specification and product availability subject to change without notice

RAYON LIGHTING

RFL3
3" LED Recessed Module
800 Lumens

PROJECT:

MODEL #:

LOCATION:

CONTACT:

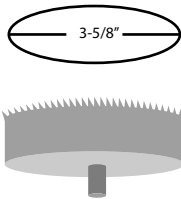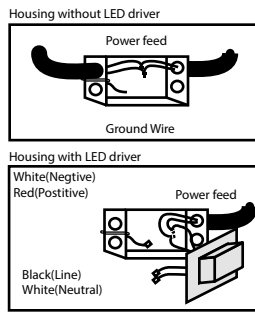## NEW CONSTRUCTION INSTALLATION

Drawing 1

Drawing 2

1. Fastening fixture to ceiling
Joist-type ceiling-extend bar hangers to fit between joists. Position fixture temporarily by hammering "Nail" into joists. (Drawing 1), then secure permanently with nails. Hangers should be level with bottom of joists. Suspended (T-bar) ceilings-extend bar hangers 1" past T-bars, then rest fixture on T-bars. Secure fixture to T-bars with wire (drawing 2)
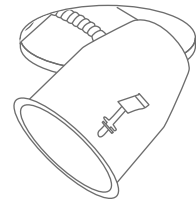
REMODEL INSTALLATION

3-5/8"

Housing without LED driver
Power feed
Ground Wire

Housing with LED driver
White(Negtive)
Red(Postitive)
Power feed
Black(Line)
White(Neutral)

Carefully cut a hole of 3-5/8" diameter into the ceiling.

Pull supply wire through opening and make electrical connections. Refer to "electrical connections" section.
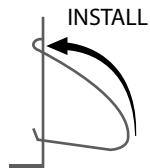
Insert the housing in ceiling cutout as illustrated.

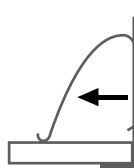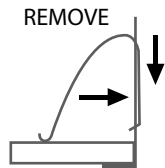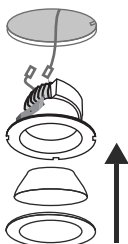INSTALL

REMOVE

With clips seated properly in can (fig.1)
Insert remodel housing into ceiling, junction box first.
Hold fixture up against ceiling and push chip through housing solt (fig. 2)
To lock clip in place push flat portion against side of can (fig. 2)
To release pull down on clip (fig. 3)

Fig.1   Fig.2   Fig.3

TRIM INSTALLATION

Final Result

Connect the male(module) into the female(Can) connector. Insert baffle/reflector into the module use trim to secure.
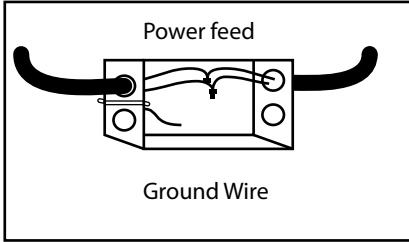
RFL3
3" LED Recessed Module
800 Lumens

PROJECT:

MODEL #:

LOCATION:

CONTACT:

ELECTRICAL CONNECTION

1. Housing without LED driver

Power feed

Ground Wire

Connect-
• Black - Supply Voltage
• White - Neutral
• Green Ground J-box wire -copper
  or green grounding wire

2. Housing with LED driver

White(Negtive)
Red(Postitive)

Power feed

Black(Line)
White(Neutral)
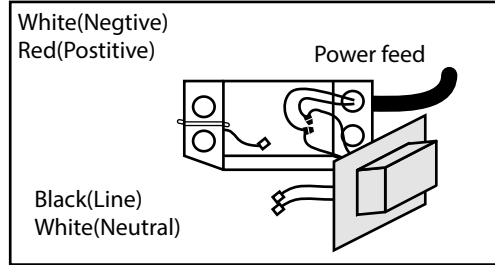
Junction box contains two wires. A black(hot+) and a white(neutral-) which must be spliced to the house current feed wire. Make sure to splice white to white and colored or black to black. After splicing has been completed, tuck splices carefully into junction box and replace cover(drawings 3)

3. Grounding
for Romex or 3 wire BX. flexible armour cable instadllations attach supply ground-lead(green) to bare copper groundlead or ground screw in wiring box mounted on plaster frame. Local electrical codes should be consulted to determine acceptable installation-conduit Romex, or flexible Armour cable.

DIMMER SWITCH WIRING

INPUT CONTROL DIMMER SWITCH

Input

LED DRIVER

Output

+

-

120V

Dimmer Switch

LED PCB

Specification and product availability subject to change without notice