

INSTALLATION INSTRUCTIONS

LED Light Engine Kit Model: 9" Round Engine (32W & 39W)

120V-277V: NON-DIMMING

TKUNV039RDXX-Y1
TKUNV032RDXX-Y1

120V-277V: 0-10V DIMMING

TKMUNV039RDXX-Y1
TKMUNV032RDXX-Y1

Disclaimer: The driver pictured above is the Non-Dimming version.

1.0 INSTALLATION INSTRUCTION WARNINGS

1. "THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED."
2. "WARNING - Risk of fire or electric shock. LED Retrofit kit installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician."
3. "WARNING - Risk of fire or electric shock. Install this kit only in the luminaires that has the construction features and dimensions shown in the photographs and/or drawings."
4. "WARNING - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects."
5. "WARNING –Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components."
6. "Please make sure the grounding conductor of the luminaire is properly secured to the Branch Circuit Grounding conductor. "
7. "CAUTION – RISK OF FIRE. CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR."
8. "The assembly of this LED retrofit should be performed by a licensed electrician or equivalent as State or Provincial Codes and Laws dictate."
9. "WARNING – RISK OF FIRE OR ELECTRIC SHOCK. DO NOT ALTER, RELOCATE, OR REMOVE WIRING, LAMP HOLDERS, POWER SUPPLY, OR ANY OTHER ELECTRICAL COMPONENT."
10. "THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY CSA OR AUTHORITIES HAVING JURISDICTION."

2.0 Minimum Original Luminaire Dimensions



Fulham
Model: CN02

L	12.38"	314 mm
Ht.	6.125"	156 mm



Fulham
Model: CN03

Dia.	14.92"	379 mm
Ht.	11.34"	288 mm



Widelite
Model: SP

L	13.2"	335mm
Ht.	11"	279mm

Illustration 1: Minimum Original Luminaires Dimensions

- Keep the Original Diffuser.
- Remove all the remaining original fixture parts, hardware, and lamp in order to begin the retrofit.

3.0 Intended Use

- This LED Engine Kit can retrofit any luminaire with a diameter/height greater or equal to the minimum dimensions shown above.

4.0 Required Tools (Not Included)

Tool #	Description	QTY
1	7/16" Drill bit	1
2	Power Drill	1
3	Phillips Drill Bit (P2)	1



Tool #1



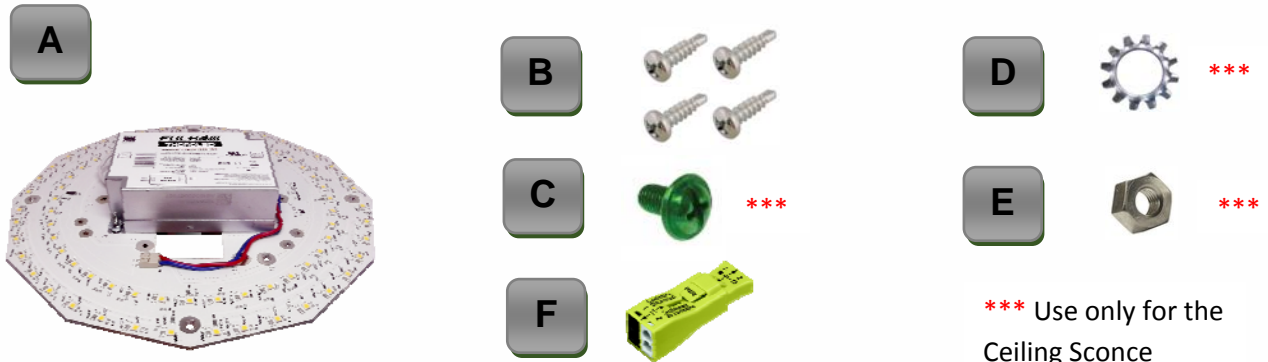
Tool #2



Tool #3

5.0 Included Components

Warning: Disconnect power when servicing fixture.



Picture A: 9" LED Light Engine Kit

*** Use only for the Ceiling Sconce Luminaires.

ITEM	DESCRIPTION	QTY
A.	LED Engine (Includes LED Module and LED Driver)	1
B.	6-20 X 3/8" Pan Head Drilling Screws	4
C.	8-32 X 1/4" Ground Green Machine Screw ***	1
D.	#8 External Tooth Lock Washer ***	1
E.	8-32 Hex Nut ***	1
F.	PUSH WIRE Input Power Connector (Wago 873-902 LUMI-NUTS)	1

LED Engine Retrofit Kit Consist of:				
LED Engine Retrofit Kit	LED Engine:	QTY	Hardware:	QTY
TKUNV039RDXX-Y1	TEUNV039RDXX-Y1	1	TLC-HW02	1
TKUNV032RDXX-Y1	TEUNV032RDXX-Y1	1	TLC-HW02	1
TKMUNV039RDXX-Y1	TEMUNV039RDXX-Y1	1	TLC-HW02	1
TKMUNV032RDXX-Y1	TEMUNV032RDXX-Y1	1	TLC-HW02	1

NOTE: "XX" represents desired Kelvin Temperature. (Ex: 40: 4000K 50:5000K)

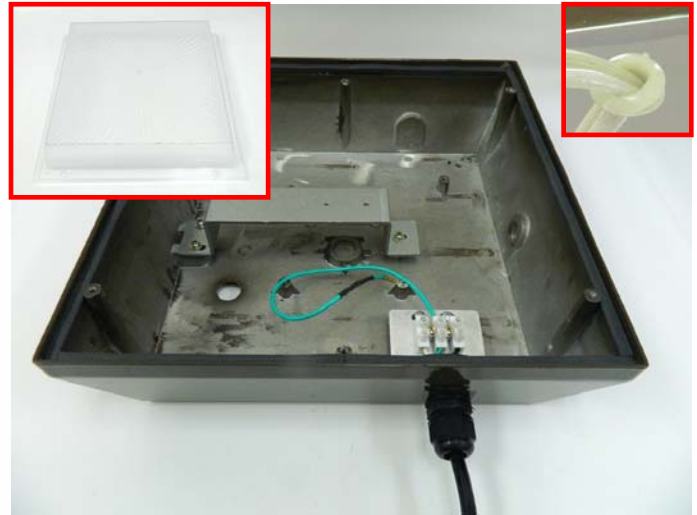
NOTE: "Y" represents desired CRI. (Ex: 0= 80 CRI, 1= 90 CRI)

6.0 Original Luminaire

Warning: Disconnect power when servicing fixture.



Picture B: Original Luminaire Housing



Picture C: Original Parts to be kept



Picture D: Connector Provided per Energy Star CSD

Original Luminaire Disassembly:

1. Remove all hardware, Insulation (if available) and original electronic components from the luminaire. See Picture B.
2. Parts to be kept include: (See picture C).
 - Original Luminaire Housing
 - Original Diffuser
 - Grounding Cable (Green wire).
 - Original Reflector bracket
 - Original power terminals
 - Original Grommet

7.0 Retrofit Kit Assembly (9" Round-32W & 39W)

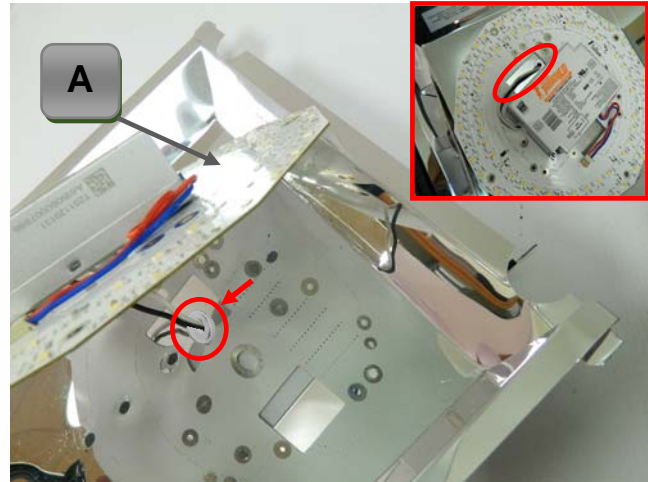
Warning: Disconnect power when servicing fixture.

NOTE: Original Grommet will need to be used on the 7/16" Drilled hole.

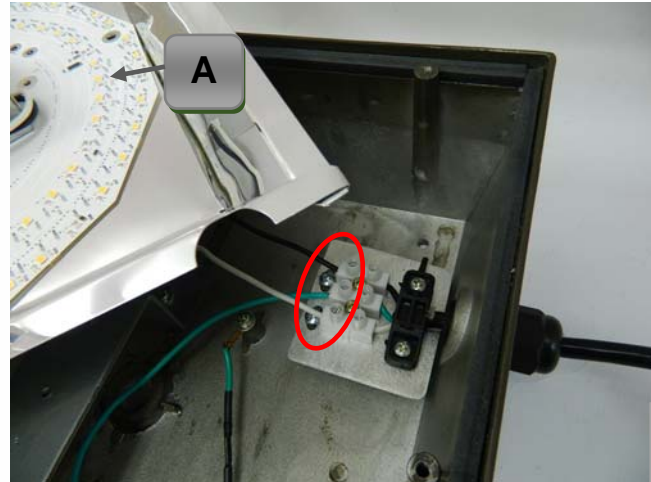
1. Place the LED Engine (Part: A) onto the original reflector. Drill a 7/16" hole in the original reflector, inside one of the rectangular openings of the LED Engine (Part: A). See picture #1.
2. Pass the LED Engine (Part: A) input power wires and dimming wires (if available) through the original grommet on the pre-drilled reflector wire hole. See Picture #1.

NOTE: Please **DO NOT** remove any of the original labels in the luminaire

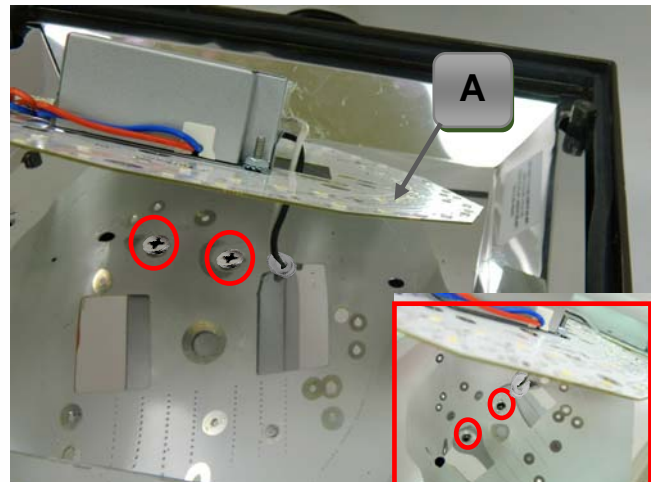
3. Connect the LED Engine (Part: A) input power wires to the luminaire's power terminals. See picture #2.
4. See the section on page #6, "Connecting Power to the LED System" for proper connection steps.
5. Align the holes on the original reflector to the holes on the original reflector bracket. See picture #3.
6. Secure the original reflector to the original reflector bracket by using the original screws. See picture #3.



Picture #1



Picture #2



Picture #3

7.1 Retrofit Kit Assembly (9" Round-32W & 39W)

Warning: Disconnect power when servicing fixture.

7. Place the LED Engine (Part: A) onto the original reflector and secure it by using the 6-20 X 3/8" Pan Head Drilling Screws (Part: B). See picture #4.
8. Place the provided labels in the LED Engine once installation has been completed. Labels must be visible. See picture #5 and Illustration 2.

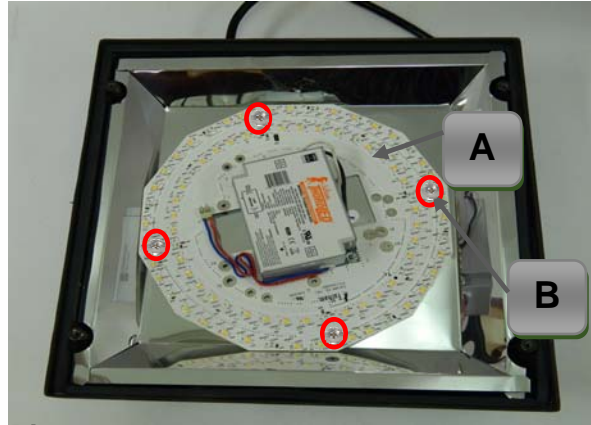
CAUTION: THIS LUMINAIRE HAS BEEN MODIFIED TO OPERATE LED LAMPS. DO NOT ATTEMPT TO INSTALL OR OPERATE FLUORESCENT LAMPS IN THIS LUMINAIRE.



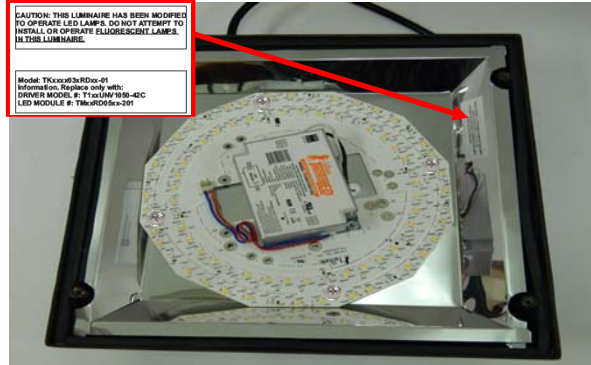
Model: TKxxx03xRDxx-01
Information. Replace only with:
DRIVER MODEL #: T1xxUNV1050-42C
LED MODULE #: TMxxRD05xx-201

Illustration 2

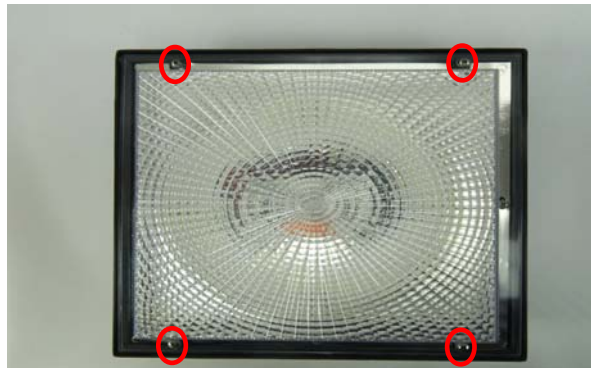
9. Re-attach and secure the lens to the luminaire by using the four original screws. See Picture #6.
10. Completed retrofit should look like picture #6.



Picture #4



Picture #5



Picture #6

Connecting power to the LED System:

- 1) Connect the copper wire (Ground) from the luminaire housing to the ground wire (Ground) that is being fed by the power source. Connect these two wires by using a 16-18 AWG Gauge Wire Nut.
- 2) Connect the white wire (Neutral) from the LED Engine (Part: A) to the white wire (Neutral) that is being fed by the power source. Connect these two wires by using the provided connector or a 16-18 AWG Gauge Wire Nut.
- 3) Connect the black wire (Line) from the LED Engine (Part: A) to the black wire (Line) being fed by the

8.0 Warranty and Contact Information

Warranty

Please see our warranty policy on LED system.