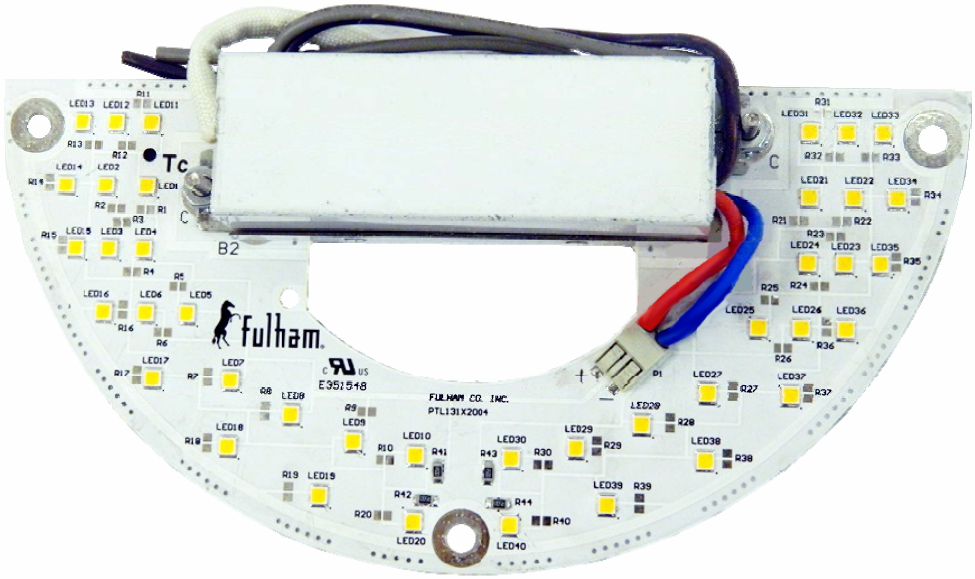


INSTALLATION INSTRUCTIONS

LED Light Engine Kit Model: 7”Half-Round Engine

120V: TRIAC DIMMING
TKT120013HRXX-01

120V-277V: 0-10V DIMMING
TKMUNV013HRXX-01
TKMUNV011HRXX-01

Disclaimer: The driver pictured above is the 0-10V Dimming version. The Triac Dimming driver does not have the gray and purple wires.

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 luminaires 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 luminaries 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, LAMPHOLDERS, 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

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

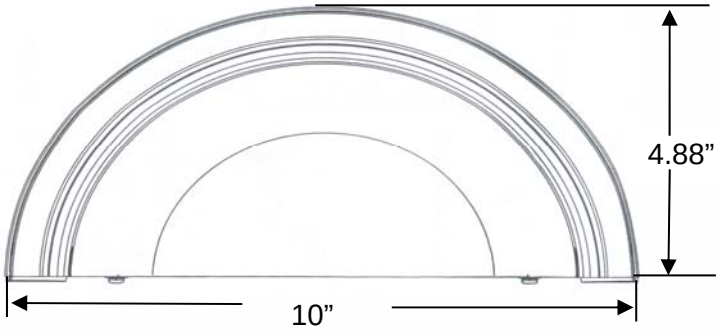


Illustration 1: Minimum Original Luminaire Dimensions-Top View

Mfr: Capital – Model: 020555-10

Approved for open or close fixtures

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.
- This LED Engine Kit can be used with luminaires similar to the one illustrated above.

4.0 Required Tools (Not Included)

Tool #	Description	QTY
1	P2 Phillips Screw Driver	1
2	3/16” Drill Bit	1
3	Power Drill	1

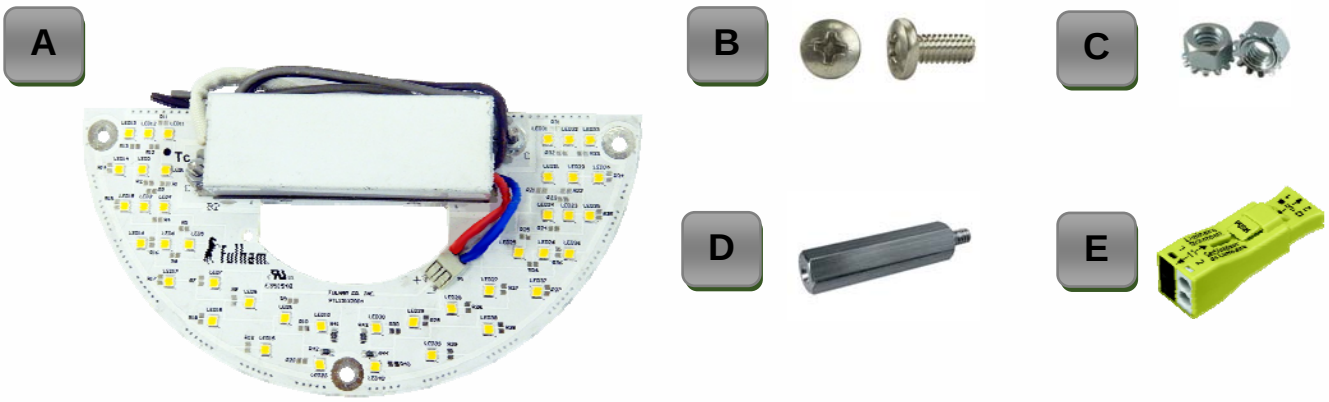
Tool #1

Tool #2

Tool #3

5.0 Included Components

Warning: Disconnect power when servicing fixture.



Picture A: 7" Half-Round LED Light Engine Kit

ITEM	DESCRIPTION	QTY
A.	LED Engine (Includes LED Module and LED Driver)	1
B.	6-32 X 3/8" Pan Head Machine Screws	3
C.	6-32 Keps Lock Nuts	3
D.	1/4" Outer Diameter x 1/2" Length x #6-32 Thread Hex Aluminum Female / Male Standoff	3
E.	PUSH WIRE Input Power Connector (Wago 873-902 LUMI-NUTS)	1

	LED Engine Retrofit Kit Consist of:			
LED Engine Retrofit Kit	**LED Engine: (Item A)**	**QTY**	**Hardware: (Items B-E)**	**QTY**
TKT120013HRXX-01	TET120013HRXX-01	1	TLC-HW07	1
TKMUNV013HRXX-01	TEMUNV013HRXX-01	1	TLC-HW07	1
TKMUNV011HRXX-01	TEMUNV011HRXX-01	1	TLC-HW07	1

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

6.0 Original Luminaire

Warning: Disconnect power when servicing fixture.

Picture B: Original Luminaire Housing

Picture C: Luminaire Hole Locations

Picture D: Original Diffuser

Picture E: 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:

   - Original Luminaire Housing
   - Original Diffuser/Lens (See Picture D)
   - Grounding Cable (Copper wire) (See Picture D) (Do NOT remove from its location)

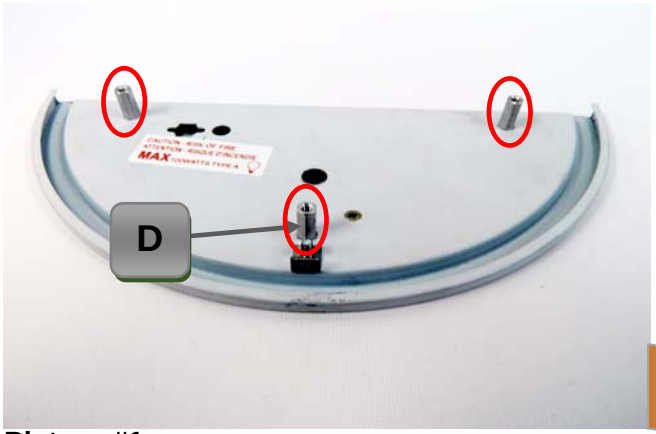
3. Drill 3 holes using a 3/16” drill bit. Use the LED engine as a template to drill all holes. See picture C.

7.0 Retrofit Kit Assembly (7" Half-Round)

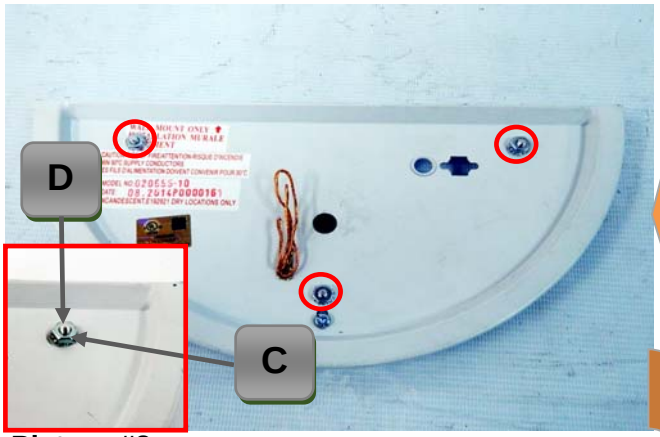
Warning: Disconnect power when servicing fixture.

1. Insert the Thread Hex Aluminum Female/Male Standoffs (Part: D) through the 3/16" pre-drilled holes on the front of the luminaire housing, so the Male end of the Standoffs (Part: D) comes out through the rear of the luminaire housing; see Picture #1.
2. Fasten the 6-32 Keps Lock Nuts (Part: C) to the Thread Hex Aluminum Female/Male Standoffs (Part: D); see picture #2.
3. Pass the LED Engine (Part: A) input power wires through the wire hole and the dimming wires (if available) through the original mounting hex nut (circle) and through the mounting hole. See Picture #3.
4. See page #6 "Connecting Power to the LED System" section for proper connection steps.

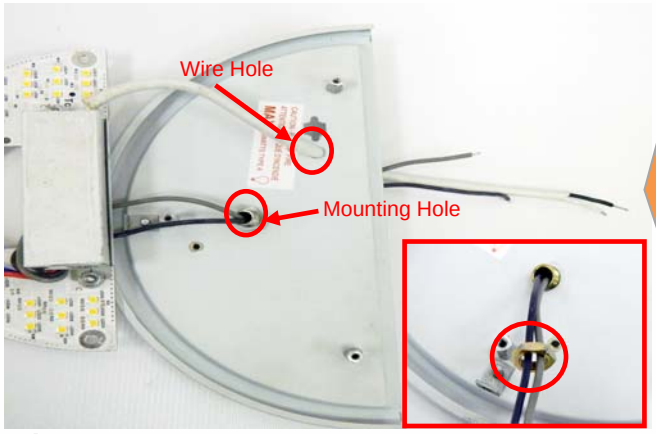
NOTE: The dimming wires (gray & purple) are available on the 0-10V Dimming version (shown on these instructions). Use the mounting hole to pass the dimming wires. Always use the Wire Hole to pass the LED Driver input power wires. See picture #3.



Picture #1



Picture #2

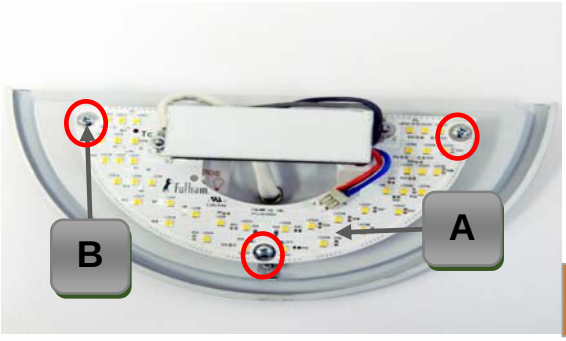


Picture #3

7.1 Retrofit Kit Assembly (7" Half-Round)

Warning: Disconnect power when servicing fixture.

5. Secure the LED Engine (Part: A) to the Thread Hex Aluminum Female / Male Standoffs (Part: D) with three 6-32 X 3/8" Pan Head Machine Screws (Part: B). See Picture #4.



Picture #4

6. Place the provided labels on the visible side of the LED engine driver, once installation has been completed. Labels must be visible. See picture #5 and Illustration 2.

Picture #5

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

Model: TKxxxx01xHRxx-01
Information. Replace only with:
DRIVER MODEL #: T1x1xxx0350-15L
LED MODULE #: TMxxHR0xxx-2x1

Illustration 2

7. Re-attach and secure the lens to the luminaire. See Picture #6.

8. Completed retrofit should look like Picture #6.

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 power source. Connect these two wires by using the provided connector or a 16-18 AWG Gauge Wire Nut.

8.0 Warranty and Contact Information

Warranty
Please see our warranty policy on LED system.