



## INSTALLATION INSTRUCTIONS

### 120V AC LED Engine Kit

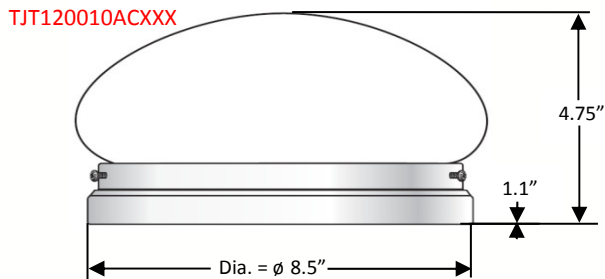
TJT120025ACXXX  
TJT120015ACXXX  
TJT120010ACXXX

**NOTE: XXX is for desired CRI & CCT; see page 3**

### 1.0 INSTALLATION INSTRUCTION WARNINGS

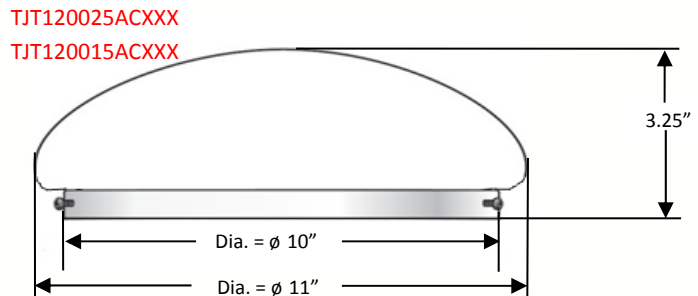
1. "THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED."
2. "WARNING - Risk of fire or electric shock. LED Retrofit kit installation requires knowledge of luminaires electrical 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 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. "CAUTION - RISK OF FIRE. CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR."
7. "The assembly of this LED retrofit should be performed by a licensed electrician or equivalent as State or Provincial Codes and Laws dictate."
8. "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



**Illustration 1A: Minimum Original Luminaire Dimensions**

Mfr: Portfolio – Model: GL2301-WHES-I



**Illustration 1B: Minimum Original Luminaire Dimensions**

Mfr: Lamar Lighting – Model: CDW11311PN1SW

• This LED retrofit kit is only intended for Closed Type Luminaires; the diffuser must be made of glass.

- 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.
- 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	Flathead Screwdriver	1
2	Power Drill	1
3	Phillips Drill Bit (P2)	1



**Tool #1**



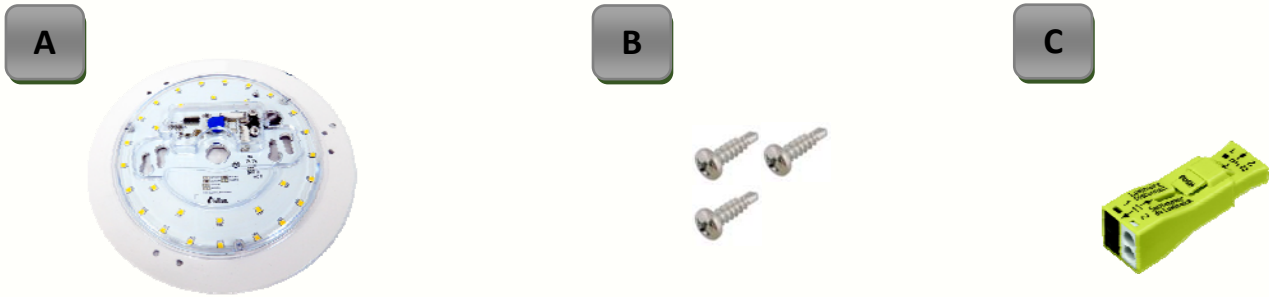
**Tool #2**



**Tool #3**

5.0 Included Components

**Warning: Disconnect power when servicing fixture.**



Picture A: 10" AC Module Kit

ITEM	DESCRIPTION	QTY
A.	AC Module LED Engine	1
B.	6-20 X 3/8" Pan Head Drilling Screws	3
C.	PUSH WIRE Input Power Connector (Wago 873-902 LUMI-NUTS)	1

Recommended, but not included in the kit: Wire Nuts (Not Included)

LED Engine Retrofit Kit Consist of:				
LED Engine Retrofit Kit	LED Engine:	QTY	Hardware:	QTY
TJT120025ACXXX	TAT120025ACXXX	1	TLC-HW08	1
TJT120015ACXXX	TAT120015ACXXX	1	TLC-HW08	1
TJT120010ACXXX	TAT120010ACXXX	1	TLC-HW08	1

**NOTE: Please see chart below for options. Replace (XXX) with one of the numbers of the chart below.**

XXX	CRI	CCT
830	80	3000K
840	80	4000K
930	90	3000K
940	90	4000K

### 6.0 Original Luminaire

**Warning: Disconnect power when servicing fixture.**



Picture B: Original Luminaire Housing



Picture C: Original Diffuser and ground cable

**NOTE: USE the Connector Provided per Energy Star CSD, or wire nuts (optional) for the input connection. (See Picture D).**



Connector Provided  
per Energy Star



16 AWG Wire Nuts  
(optional)

Picture D: Original Connector

### Original Luminaire Disassembly:

1. Remove all hardware, Insulation (if available) and original electronic components from the luminaire. See Picture B.
2. Grounding Cable (Green wire) (See Picture C). Rivet (arrow) will need to be eliminated with a 1/8" drill bit in order to remove the Ground Cable.
3. Parts to be kept include:
  - Original Luminaire Housing
  - Original Diffuser (See Picture C)
  - Original Connector (If available). (See picture D).

### 7.0 Retrofit Kit Assembly (10" AC Module)

**Warning: Disconnect power when servicing fixture.**

1. Pass the LED Engine (Part: A) input power wires through the luminaire wire hole. See Picture #1.

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

2. Align the LED Engine (Part: A) center hole (large arrow) to the luminaire center hole. Match all other openings on both parts. See Picture #2.

**NOTE: Make sure the 4 key holes/mounting holes (circles) are not blocked. See picture #2.**

3. Secure the LED Engine (Part: A) to the luminaire housing by using the Drilling Screws (Part: B). See Picture #2.
4. Place the provided labels in the outer space of the luminaire after the LED engine installation has been completed. Labels must be visible. See picture #3 and Illustration 2.

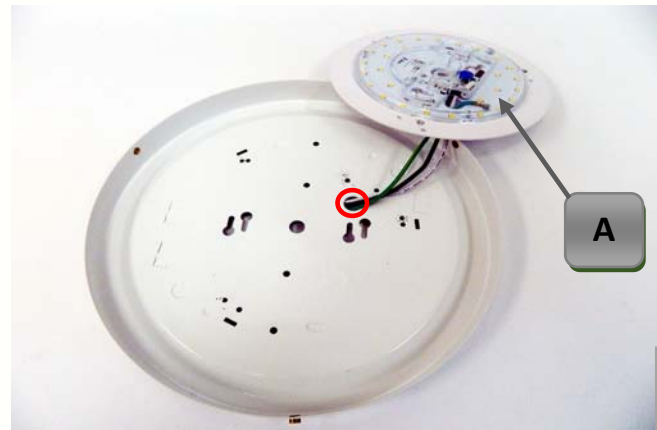
**Labels provided in the kit:**



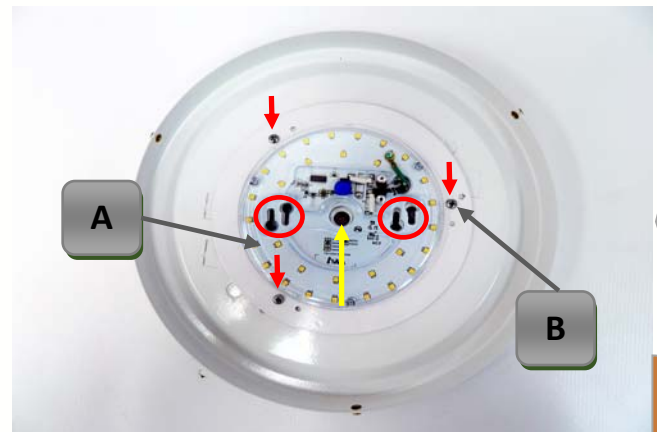
**NOTICE - THIS LUMINAIRE HAS BEEN MODIFIED AND CAN NO LONGER OPERATE THE ORIGINALLY INTENDED LAMP (WITH RESPECT TO FIRE AND SHOCK ONLY) FOR USE ONLY WITH PRODUCTS DESCRIBED AND INSTALLED IN ACCORDANCE WITH THE INSTRUCTION PROVIDED WITH THIS RETROFIT KIT.**

**WARNING:** Risk of fire and electrical shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.

**Illustration 2**



**Picture #1**



**Picture #2**



**Picture #3**

### 7.1 Retrofit Kit Assembly (10" AC Module)

**Warning: Disconnect power when servicing fixture.**

5. See the section below "Connecting Power to the LED System" for proper connection steps.
6. Mount the luminaire to the ceiling by using the threaded stem and nut (arrow) or the 4 key holes (circles). See picture #4.
7. Re-attach and secure the lens to the luminaire. See Picture #5.



**Picture #4**



**Picture #5**

#### **Connecting power to the LED System:**

- 1) Connect the copper wire (Ground) from the LED Engine 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 or available connector.
- 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 a 16-18 AWG Gauge Wire Nut or available connector.
- 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 a 16-18 AWG Gauge Wire Nut or available connector.

### 8.0 Warranty and Contact Information

#### **Warranty**

**Please see our warranty policy on LED system.**