

MANUAL FOR LED LIGHT ENGINE KIT INSTALLATION





# **INSTALLATION INSTRUCTIONS**

LED Light Engine Kit Model: 9" Round Engine

120V: TRIAC DIMMING	UNV (120V-277V): 0-10V DIMMING
TKT120025RDxx-01	TKMUNV025RDxx-01
TKT120025RDxx-11	TKMUNV025RDxx-11
TKT120021RDxx-01	TKMUNV021RDxx-01
TKT120021RDxx-11	TKMUNV021RDxx-11
TKT120025RDxx-02	TKMUNV025RDxx-02
TKT120025RDxx-12	TKMUNV025RDxx-12
TKT120021RDxx-02	TKMUNV021RDxx-02
TKT120021RDxx-12	TKMUNV021RDxx-12

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

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### 1.0 INSTALLATION INSTRUCTION WARNINGS

- "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."
- "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."
- "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."
- "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."
- "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.

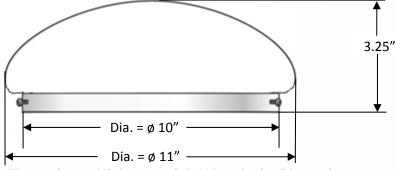


Illustration 1: Minimum Original Luminaire Dimensions Mfr: Lamar Lighting - Model: CDW11311PN1SW

### 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	11/32" Nut Driver	1
2	3/16" Drill Bit	1
3	Power Drill	1
4	Phillips Drill Bit (P2)	1









Tool #3

Tool #4



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### 5.0 Included Components

Warning: Disconnect power when servicing fixture.



Picture A: 9" LED Light Engine Kit

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
TKT120025RDxx-01	TET120025RDxx-01	1	TLC-HW02	1
TKT120025RDxx-11	TET120025RDxx-11	1	TLC-HW02	1
TKT120021RDxx-01	TET120021RDxx-01	1	TLC-HW02	1
TKT120021RDxx-11	TET120021RDxx-11	1	TLC-HW02	1
TKT120025RDxx-02	TET120025RDxx-02	1	TLC-HW02	1
TKT120025RDxx-12	TET120025RDxx-12	1	TLC-HW02	1
TKT120021RDxx-02	TET120021RDxx-02	1	TLC-HW02	1
TKT120021RDxx-12	TET120021RDxx-12	1	TLC-HW02	1
TKMUNV025RDxx-01	TEMUNV025RDxx-01	1	TLC-HW02	1
TKMUNV025RDxx-11	TEMUNV025RDxx-11	1	TLC-HW02	1
TKMUNV021RDxx-01	TEMUNV021RDxx-01	1	TLC-HW02	1
TKMUNV021RDxx-11	TEMUNV021RDxx-11	1	TLC-HW02	1
TKMUNV025RDxx-02	TEMUNV025RDxx-02	1	TLC-HW02	1
TKMUNV025RDxx-12	TEMUNV025RDxx-12	1	TLC-HW02	1
TKMUNV021RDxx-02	TEMUNV021RDxx-02	1	TLC-HW02	1
TKMUNV021RDxx-12	TEMUNV021RDxx-12	1	TLC-HW02	1

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

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6.0 Original Luminaire

Warning: Disconnect power when servicing fixture.



**Picture B: Original Luminaire Housing** 



Picture C: Original Diffuser and ground cable



**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. Parts to be kept include:
  - Original Luminaire Housing
  - Original Diffuser (See Picture C)
  - Grounding Cable (Green wire) (See Picture C). Rivet will need to be removed in order to use the Ground Cable.



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### 7.0 Retrofit Kit Assembly (9" Round)

Warning: Disconnect power when servicing fixture.

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

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

 Align the LED Engine (Part: A) center hole to the luminaire center hole. See Picture #2.

**NOTE:** Make sure the key holes/mounting holes are not blocked

- Secure the LED Engine (Part: A) to the luminaire housing by using the 6-20 x 3/8" Drilling Screws (Part: B). See Picture #2.
- 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 #2 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.

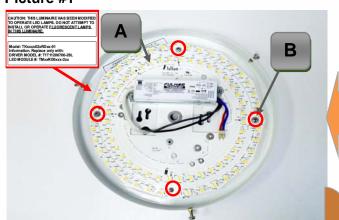


Model: TKxxxx02xRDxx-01 Information. Replace only with: DRIVER MODEL #: T1T11200700-26L LED MODULE #: TMxxRD0xxx-2xx

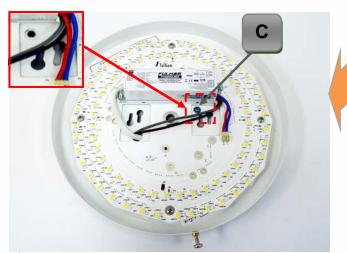
### Illustration 2

- 5. Drill a 3/16" hole in the shown location (arrow). See picture #3.
- Insert the 8-32 x 3/8" Ground Green Machine Screw (Part: C) through the luminaire pre-drilled 3/16" hole. See Picture #3.





Picture #2



Picture #3



MANUAL FOR LED LIGHT ENGINE KIT INSTALLATION

### 7.1 Retrofit Kit Assembly (9" Round)

### Warning: Disconnect power when servicing fixture.

- On the rear side of the luminaire, secure the grounding cable by passing the already inserted 8-32 x 3/8" Ground Green Machine Screw (Part: C) in the following
  - A. 8-32 External Tooth Lock Washer (Part: D)



B. Ground Cable



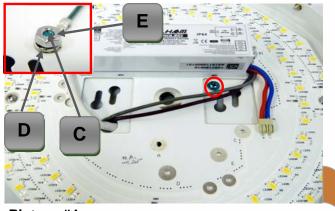
C. 8-32 Hex Nut (Part: E)



**WARNING:** Ground screw assembly should not be torque down over 14 lb-in, any higher than 14lb-in will result of striping the 8-32 x 3/8" Ground Green Machine Screw (Part: C).

IMPORTANT: After installation of ground wire check for grounding connection to the luminaire housing.

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

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