

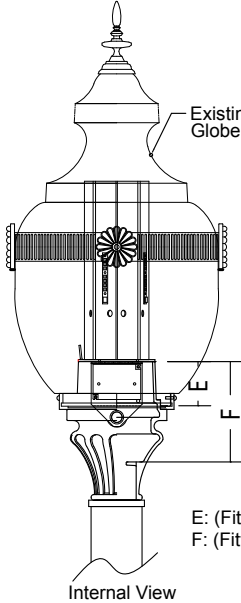
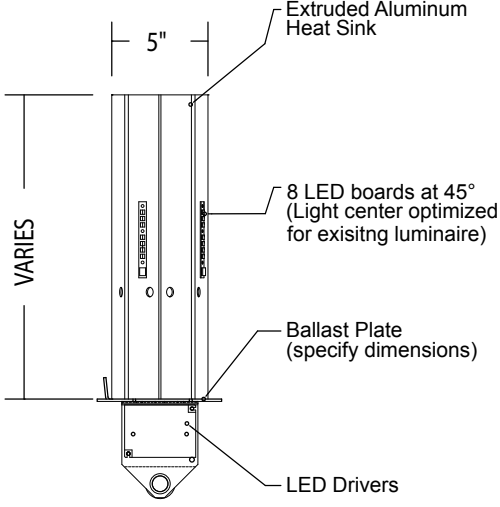
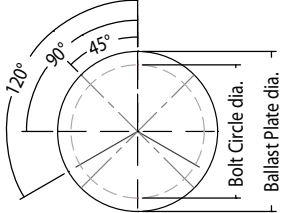
Type:

Ordering Code:

Job Name:

Notes:

LRK-2V

details	bolt circle
 <p>Existing Prismatic Globe</p> <p>E: (Fitter inside globe): F: (Fitter cavity depth):</p> <p>Internal View</p>  <p>5"</p> <p>Extruded Aluminum Heat Sink</p> <p>8 LED boards at 45° (Light center optimized for existing luminaire)</p> <p>Ballast Plate (specify dimensions)</p> <p>LED Drivers</p> <p>VARIABLES</p>	 <p>Bolt Circle & Ballast Plate Worksheet</p> <p>the mounting plate facilitates a simplified conversion process of many of the existing globe style luminaires.</p>

ORDERING EXAMPLE: LRK-2V / 55W / T5 / UNV / LSP / 2 / 45 / ? / ? / ? / ?

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model	source (LED)	optics *	voltage	# of bolts	bolt pattern	mounting plate Ø	bolt length	bolt circle Ø	bolt size
LRK-2V	35W	<i>(consult factory)</i>	UNV 120-277V	2	45°	specify	specify	specify	specify
	55W		347V	3	90°				
			480V	4	120°				
				— other					

* The LRK-2V is designed to maximize performance of refractor style globes.

Correlated Color Temperature

Luminaire Nominal CCT (0K) shall be 45000K Plus or Minus 250k (CCT)

Color Rendering Index (CRI)

Luminaire shall have a minimum CRI of 70.

Off State Power Consumption

The power draw of the luminaire including PE devices must be zero watts when in the off state.

Operating Environment

Shall be able to operate normally in temperatures from -20°C to 40°C

Cooling System

Shall not consist of any fan, pump or liquids and must be resistant to debris buildup.

Dimensions (Approx.)

Luminaires to be retrofitted are existing and are approximately 38" tall x 19" diameter and have prismatic refractor globes.

LED heat sink

The LED module and heat sink shall be removable and up-gradable. The drivers shall be mounted on a removable plate and protected by a 10,000 amp transient surge protector. The retrofit kit plate shall fit on the existing luminaire without field modifications. The heat sink shall be extruded aluminum and be tested with 28 Nichia / 107/114 lumen LEDs mounted on four PCB boards 90-degrees apart to simulate a bare arc-tube.

LED Array

The 28 LED Array shall be 55 watts maximum and be provided with 120 degree lenses.. The total absolute lumens shall be a minimum of 2397 lumens on the Type II. The peak candle power shall occur at 62.5 degrees in the vertical and 65-degrees in the horizontal and be a minimum of 732 candle power. The total absolute lumens on the Type V shall be a minimum of 2926 lumens. The peak candle power shall occur at 62.5 degrees in the vertical and be a minimum of 1548 candle power. Aiming of individual LEDs will not be accepted.

Photometric Testing

Manufactures will not be considered unless independent photometric testing is provided per LM-79 for the Type II distribution and the Type V distribution. The independent testing shall be with the LED retrofit kit mounted inside the prismatic refractive globes. (one Type V & one Type II) Prorating or Scaling of lumens from existing reports will not be allowed. LM-79 testing shall confirm performance, delivered lumens per watt and CCT Kelvin temperature of LEDs.

LED Manufacture

The board shall be provide with 28 Nitchia 119 LEDs using (107/114 lumens) at 350 ma. per LM80 specifications. The boards will be provided with two circuits of 14 LEDs each. Each circuit shall be supplied with one driver for a total of two drivers for two circuits. If one driver fails the other driver shall still light up one circuit of 14-LEDs.

Lumen Depreciation of LED Light

Must comply with IESNA LM-80

Source

LED module shall deliver at least 70% of initial lumens, when installed for a minimum of 70,000 hours.

Light Distribution Shall be:

Light Distribution Shall from the bare light engine shall have a Street Classification Lighting Distribution Pattern of Type V , however when used in conjunction with a refractor style globe, the lighting pattern will be that of the refractor itself..

Power Supply/Driver Requirements:

U.L.
UL1310, Class 2 and UL48 compliant

Power Factor

Shall have a power factor not less than 90% at full load

Operating Voltage

120-277 volts

Operating Temperature

Shall operate between -300° C and 60° C

Frequency

Output operating frequency 47 to 63 Hz

Interference

Shall meet FCC 47 CFR Part 2, part15 and Cispr PUB, 22 Class B

Noise

Shall have a class A sound rating

Protection

Over-voltage, Over current and Short circuit protection: Auto-recovery

Startup

Must be instant restart

Surge Protection:

ransient over voltage protection shall be provided rated at 10,000 amps per standard 8/20 uSec wave.

File\Test Requirements:**UL/CSA**

Provide copy of UL or CSA certification as recognized component