

# LED Retrofit Kit

## HANOVER GRANDE PLYMOUTH 31800 Series Post Top

### Comments:

Kit to be programmed at either 20W, 40W or 60W  
Can be ordered in Type III or Type V

### Technical Specifications

**Input Voltage:** 120V-277V or 347V-480V

**Kit Contents:** The kit consists of an aluminum panel with integrated LED circuit board, LED driver, 20kA surge suppressor, and all wiring and hardware required for installation. Installation of the kit to the existing fixture is accomplished via provided mounting screws.

**Power Supply:** A single wide range (120V to 277V) 60 watt, regulated DC power supply is included. The power supply is compliant with all relevant UL and FCC standards for LED drivers. 0-10V dimming is standard.

The power supply performance meets the following electrical characteristics:  
THD: Less than 20%. PF: Greater than 0.90 @ 120V.

**Color Temperature:** All 2700K, 3000K, 4000K and 5000K LEDs are rated for a minimum of 100,000 hours of continuous operation at ambient temperatures from -40°F to 120°F.

**Light Engine:** Each light engine consists of a total of 72 LED's. The LED board is mounted to a painted steel or aluminum panel that is custom designed for the existing fixture.

**Color Rendering Index (CRI):** Minimum of 70 or higher.

**Dimming:** 0-10V standard dimming capability.

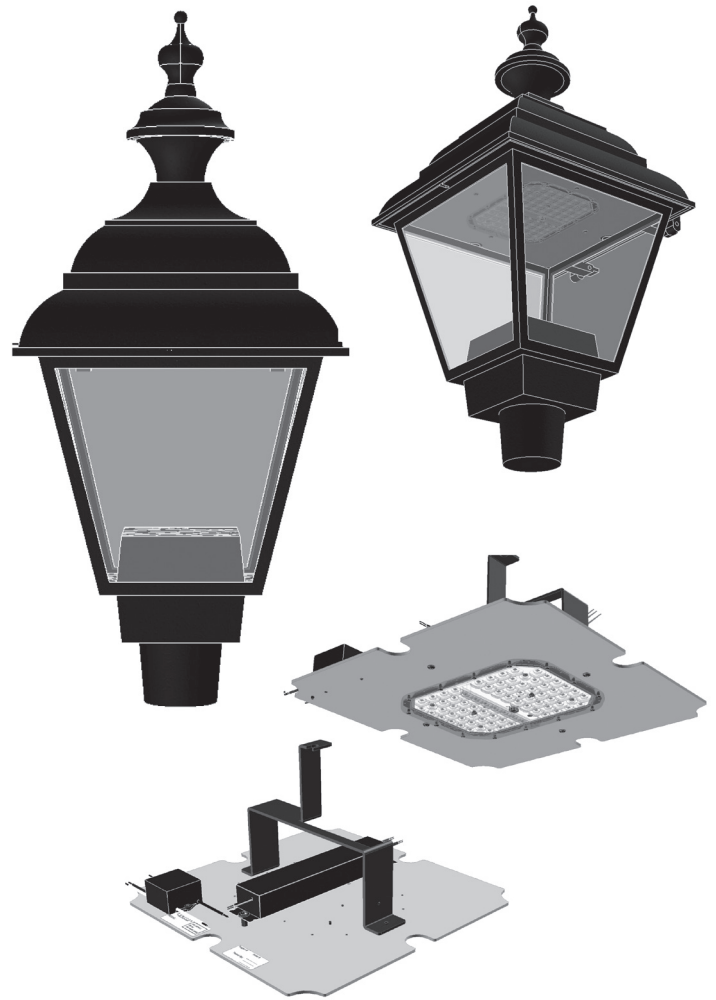
**Surge Protection:** Thermally protected 40kA/40kV varistor type surge suppressor is included and meets ANSI C136.2-2015 - Extreme transient exposure level. Also meets IEC61643-11 Class II/EN61643-11 Type II, and US Dept of Energy MSSLC Model Spec for surge protection. The device is wired in series with the luminaire input power in order to interrupt power to the luminaire when consumed, protecting the LED power supply and critical boards from additional electrical surges.

**Lumecon ETD™ System:** The enhanced thermal dissipation system engines are thermally bonded to provide maximum thermal dissipation to the exterior of the fixture to ensure long life. To protect the light engine panel from moisture and corrosion, the LED light engine panel is uniformly coated with a UV stabilized acrylic polymer resin that meets MIL and ASTM dielectric standards, UL, and IPC standards for flammability, moisture resistance and thermal shock.

### Performance Data Options

Model: **RTK31800**

Watts	Delivered Lumens	Efficacy	Color Temp.	Distribution
20W	2,700 (est)	135 LPW (est)	27K, 30K, 40K, 50K	Type III or Type V
40W	5,400 (est)	135 LPW (est)	27K, 30K, 40K, 50K	Type III or Type V
60W	8,100 (est)	135 LPW (est)	27K, 30K, 40K, 50K	Type III or Type V



**Manufacturing Origin:** US Manufactured and Assembled.

**Buy American:** Meets Buy American requirements within the ARRA.

**Warranty:** 10 Year L70 performance based warranty. For full warranty terms, please visit our website: [www.hanoverlantern.com](http://www.hanoverlantern.com)

### Description

The retrofit kit is designed to upgrade the Grande Plymouth fixture to the latest LED technology. This kit is available in multiple wattages, color temperatures and optical distribution patterns. Installation is designed to be simple and efficient using existing hardware.

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