**FEATURES / BENEFITS**

- Designed for span wire or steep grade applications
- Convex tinted lens reduces glare & sun reflection
- Fuse and transient suppressor incorporated for line and load protection
- Operating Temperature Range: -40°C to +74°C
- Operating Voltage Range: 80VAC to 135VAC (120VAC nominal)
- Turn-On/Turn-Off Time = 75 msec max
- Power factor > 0.9
- Total harmonic distortion < 20%
- Radiation pattern is twice that of the ITE specification (As much light above the horizontal as below)
- Robust Hi-Flux LED technology
- Uniform illumination - better than incandescent
- 90% reduction in power vs. incandescent
- Long life; Up to 10 times longer than incandescent
- Hard coated lenses for abrasion resistance
- Easy to install into existing signal enclosure
- ITE VTCSH- 2 compliant types available
- Conforms to MIL-STD-810F for blowing rain
- All products traceable by serial number
- Meets FCC Title 47, Subpart B, Section 15 Regulations for electrical noise
- Provided with quick connect terminals and spade adapters
- ITE VTCSH- 2 compliant types available
- Complies to Texas and N. Carolina DOT specifications

**SPECIFICATIONS**

- Designed for span wire or steep grade applications
- Convex tinted lens reduces glare & sun reflection
- Fuse and transient suppressor incorporated for line and load protection
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- Long life; Up to 10 times longer than incandescent
- Hard coated lenses for abrasion resistance
- Easy to install into existing signal enclosure
- ITE VTCSH- 2 compliant types available
- Conforms to MIL-STD-810F for blowing rain
- Provided with quick connect terminals and spade adapters
- Written manufacturer’s warranty available on request
- All products traceable by serial number

**Hi-Flux LED Expanded View**

**435 Series Traffic Signals**

- Designed for span wire or steep grade applications
- Radiation pattern is twice that of the ITE specification (As much light above the horizontal as below)
- Robust Hi-Flux LED technology
- Uniform illumination - better than incandescent
- 90% reduction in power vs. incandescent
- Long life; Up to 10 times longer than incandescent
- Hard coated lenses for abrasion resistance
- Easy to install into existing signal enclosure
- ITE VTCSH- 2 compliant types available
- Complies to Texas and N. Carolina DOT specifications
### 12” (300mm) - SIGNALS

<table>
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<tr>
<th>Part Number</th>
<th>Color</th>
<th>Lens Type</th>
<th>Meets ITE VTCSH-2</th>
<th>Typical Wattage at 25°C</th>
<th>Dominant Wavelength (nm)</th>
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#### Maintained Minimum Luminous Intensity in Candela (cd)

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<th>Vertical Viewing Angle (Deg +/-)</th>
<th>Horizontal Viewing Angle (Deg +/-)</th>
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**Notes:** Maintained Minimum Luminous Intensity is the minimum intensity throughout the warranty period.
The Red and Green values are measured after a 60 minute warm-up period and across the full operating temperature range of -40°C to +74°C.
The Yellow values are measured at 25°C and at 0 seconds on.