

# Dialight

## Hi-Flux LED Expanded View 435 Series Traffic Signals



### FEATURES / BENEFITS

- ▲ 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

### SPECIFICATIONS

- ▲ Operating Voltage Range:  
80VAC to 135VAC (120VAC nominal)
- ▲ 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
- ▲ Turn-On/Turn-Off Time = 75 msec max
- ▲ Power factor > 0.9
- ▲ Total harmonic distortion < 20%
- ▲ Meets FCC Title 47, Subpart B, Section 15 Regulations for electrical noise
- ▲ 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



### Dialight Corporation

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ISO 9001

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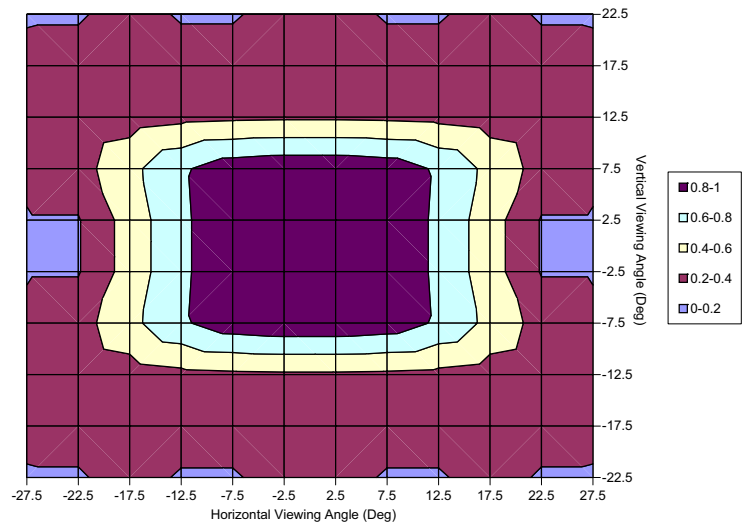
## 12" (300mm) - SIGNALS

Part Number	Color	Lens Type	Meets ITE VTCSH-2	Typical Wattage at 25°C	Dominant Wavelength (nm)
435-1210-001	Red	Tinted	✓	7	622
435-3230-001	Yellow	Tinted		14	590
435-2270-001	Green	Clear	✓	16	505
435-2220-001	Green	Tinted	✓	16	505

### Maintained Minimum Luminous Intensity in Candelas (cd)

Vertical Viewing Angle (Deg +/-)	Horizontal Viewing Angle (Deg +/-)	Red	Yellow	Green
2.5	2.5	339	678	678
	7.5	251	501	501
	12.5	141	283	283
7.5	17.5	77	154	154
	2.5	226	452	452
	7.5	202	404	404
12.5	12.5	145	291	291
	17.5	89	178	178
	22.5	38	77	77
17.5	27.5	16	32	32
	2.5	50	101	101
	7.5	48	97	97
22.5	12.5	44	89	89
	17.5	34	69	69
	22.5	22	44	44
27.5	27.5	16	32	32
	2.5	22	44	44
	7.5	22	44	44
22.5	12.5	22	44	44
	17.5	22	44	44
	22.5	20	41	41
27.5	27.5	16	32	32
	2.5	20	40	40
	17.5	20	40	40

### RADIATION PATTERN OF THE DIALIGHT 435 SERIES SIGNAL (Normalized Luminous Intensity)



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.



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