

Dialight



UNIFORM APPEARANCE LED ARROWS

Lighting Uniformity. ITE Conformity.

FEATURES / BENEFITS

- ▲ All modules (including yellow) meet the ITE VTCSH Part 3 over the full temperature range of -40°C to +74°C
- ▲ Uniform non-pixelated appearance
- ▲ Expanded view radiation pattern meets ITE VTCSH-3 LED Arrow Specification
- ▲ ENERGY STAR® qualified
- ▲ 90% reduction in power vs. incandescent
- ▲ Long life; Up to 10 times longer than incandescent
- ▲ Fuse and transient suppressor incorporated for superior line and load protection
- ▲ Convex tinted lens reduces glare and sun reflection
- ▲ Hard coated lenses for abrasion resistance
- ▲ Easy to install into existing signal enclosure

SPECIFICATIONS

- ▲ Operating Voltage Range:
80VAC to 135VAC (120VAC nominal)
- ▲ Operating Temperature Range: -40°C to +74°C
- ▲ Turn-on / Turn-off Time < 75 msec
- ▲ Power Factor > 0.9
- ▲ Total Harmonic Distortion < 20%
- ▲ Meets FCC Title 47, Subpart B, Section 15 regulations for electrical noise
- ▲ Failed State Impedance > 250K ohm within 300ms
- ▲ Conforms to MIL-STD-810F for blowing rain
- ▲ Conforms to MIL-STD-883, Test Method 2007, for mechanical vibration
- ▲ Conforms to MIL-STD-883, Test Method 1010, temperature cycling requirements
- ▲ Provided with quick connect terminals and spade adapters
- ▲ Written manufacturer's warranty available on request
- ▲ All products traceable by serial number
- ▲ Luminance Uniformity and Color Uniformity exceed ITE VTCSH-3 LED Arrow Specification requirements
- ▲ Transient suppression exceeds ITE VTCSH-3 LED Arrow Specification requirements and meets the following standards:
 - NEMA TS-2 Sec. 2.1.6 and Sec. 2.1.8
 - EC 1000-4-5, 3KV, 2 ohm source impedance
 - ANSI/IEEE C62, 41-2002; IEC 61000-4-12, 6KV, 200A, 100KHz ring wave
- ▲ Power supply is conformally coated for robust operation

**WE MEET THE NEW
ITE REQUIREMENTS,
EVEN YELLOW AT 74°C**

Dialight reserves the right to make changes at any time
in order to supply the best product possible.



Dialight Corporation

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MDTSARWEXCAL001_B



Lighting Uniformity. ITE Conformity.

UNIFORM APPEARANCE LED ARROWS

12" (300mm) - 120 VOLT ARROWS

Part Number	Color	Lens Type	Typical Wattage at 25°C	Dominant Wavelength (nm)	Peak Minimum Maintained Luminous Intensity (cd)	ENERGY STAR® Qualified
432-1314-001X	Red	Tinted	7	625	59	✓
431-3334-001X	Yellow	Tinted	9	590	146	
432-2324-001X	Green	Tinted	7	500	76	✓
432-2374-001X	Green	Clear	7	500	76	✓

* ENERGY STAR does not currently specify performance criteria for yellow LED traffic signal modules.

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MDTSARWEXCAL001_B

3-ROW LED ARROWS



FEATURES / BENEFITS

- ▲ 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
- ▲ CALTRANS approved¹
- ▲ EPA ENERGY STAR[®] qualified¹
- ▲ CSA approved¹

¹See product table below

SPECIFICATIONS

- ▲ Operating Voltage Range:
80VAC to 135VAC (120VAC nominal)
- ▲ Convex 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

12" (300mm) - 120 VOLT ARROWS

Part Number	Description	ENERGY STAR [®] Qualified	Caltrans Approved	CSA Approved*	Lens Type	Typical Wattage at 25°C	Dominant Wavelength (nm)
432-1314-001	Red, 3 Row	✓	✓		Tinted	6	622
431-3334-001	Yellow, 3 Row		✓		Tinted	8	590
432-2324-001	Green, 3 Row	✓		✓	Tinted	7	505
432-2374-001	Green, 3 Row	✓	✓	✓	Clear	7	505

* CSA approval is to Std. 250 for Luminaires



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MDTSARWM001_E

Dialight

2 ROW LED ARROWS



FEATURES / BENEFITS

- ▲ 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
- ▲ Most types EPA ENERGY STAR® qualified
- ▲ CSA approved types available

SPECIFICATIONS

- ▲ Operating Voltage Range:
80VAC to 135VAC (120VAC nominal)
- ▲ Convex 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

12" (300mm) - 120 VOLT ARROWS

Part Number	Description	ENERGY STAR® Qualified	CSA Approved*	Lens Type	Typical Wattage at 25°C	Dominant Wavelength (nm)
430-1314-001	Red	✓		Tinted	7	622
430-3334-001	Yellow			Tinted	7	590
430-2324-001	Green	✓	✓	Tinted	7	505
430-2374-001	Green	✓	✓	Clear	7	505

*CSA approved is to Std. 250 for Luminaires



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MDTS2RARW001_A

BI-MODAL GREEN & YELLOW LED ARROWS



FEATURES / BENEFITS

- ▲ 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

SPECIFICATIONS

- ▲ Operating Voltage Range:
80VAC to 135VAC (120VAC nominal)
- ▲ Convex 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

12" (300mm) - 120 VOLT ARROWS

Part Number	Description	CSA Approved	Lens Type	Typical Wattage at 25°C	Dominant Wavelength (nm)
430-6370-001	Bi-Modal Green/Yellow	✓	Clear	6/7	505/590
435-6370-801	Bi-Modal Yellow/Yellow		Clear	10/10	590/590
435-6370-001	Bi-Modal Green/Yellow		Clear	9/10	505/590

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MDTSB MARW001_B