



UNIFORM APPEARANCE

Hand & Person Pedestrian Signals

Features & Benefits

- Fully compliant to ITE PTCSI Part 2 LED Pedestrian Traffic Signal Module Specification dated 3/09/2004
- Meets or exceeds ITE uniformity ration of not more than 1 to 5 between the max and the min luminance values as measured in (.5") dia spots
- Manufactured with anti-capillary wires
- Conformal coated power supply
- Fuse and transient suppressor incorporated for superior line and load protection
- Independent dedicated power supplies for added safety and reliability
- Intertek/ETL certified and listed on ETL certification program
- Transient suppression exceeds ITE and NEMA specifications (up to 6KV ring wave)
- All units operate at 80–135 VAC RMS, 60+/-3 Hz
- CSA C22.2 No. 250.0-08
- CSA C22.2 No. 250.13-17
- UL 1598, 3rd Edition

Part Number	Size	Description	Typical Wattage at 25 °C		Min Luminance (cd/m2)	
			Hand	Person	Hand	Person
430-6450-001X	16 x 18	side-by-side Hand & Person	9	7	1,400	2,200
430-6472-001X	16 x 18	Overlay Hand & Person	11	7	1,400	2,200
430-5770-001X	12 x 12	Hand only	8	N/A	1,400	N/A
430-7771-001X	12 x 12	Person only	N/A	6	N/A	2,200
430-6772-001X	12 x 12	Overlay Hand & Person	8	10	1,400	2,200



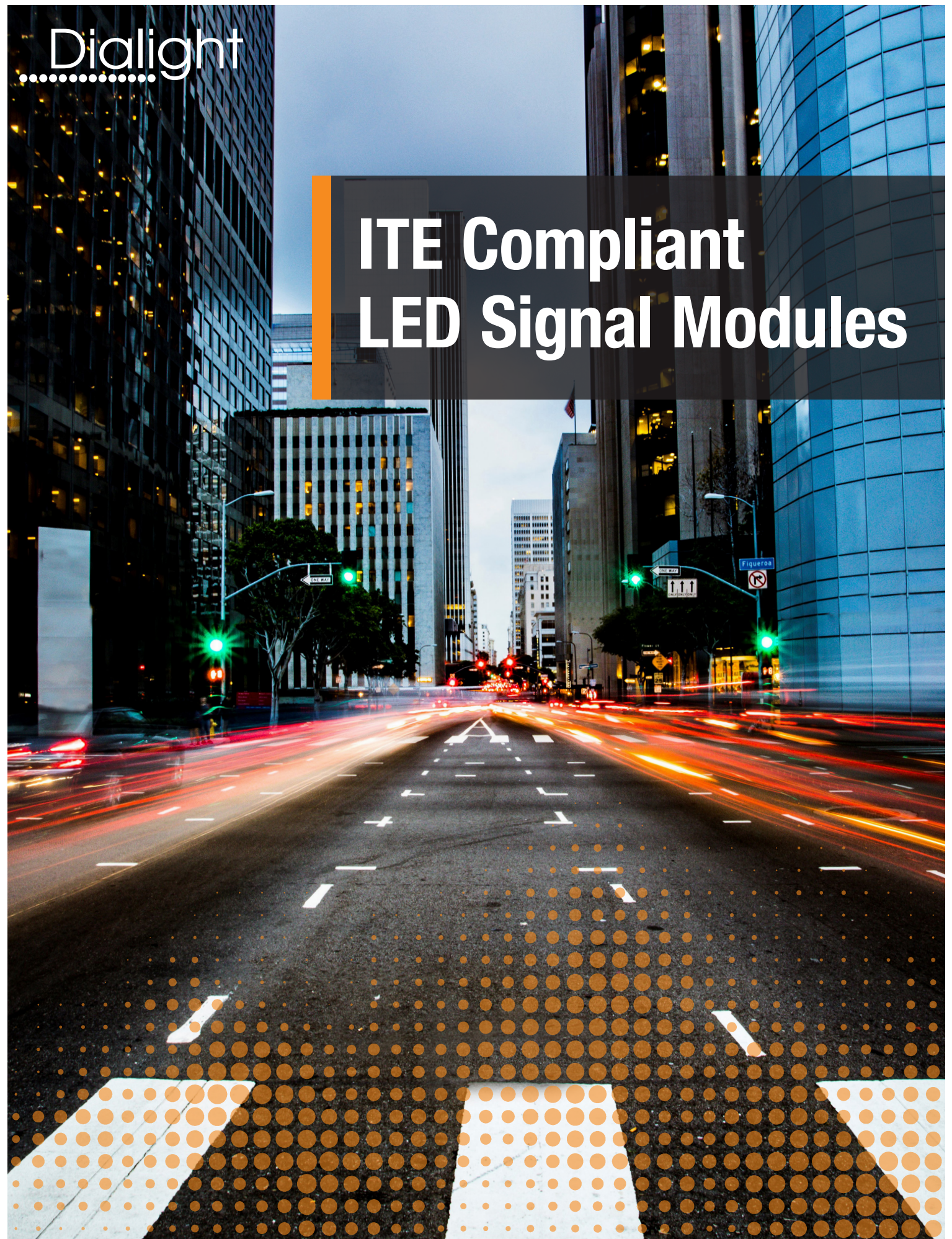
UNIFORM APPEARANCE

Countdown Pedestrian Signals

Features & Benefits

- Fully compliant to ITE PTCSI Part 2 LED Pedestrian Traffic Signal Module Specification dated 8/04/2010
- MUTCD compliant for countdown applications
- Full preemption compatibility
- Up to 8 units can be connected in parallel without affecting monitoring of the Hand / Person
- Manufactured with anti-capillary wires
- Three (3) independent dedicated power supplies for added safety and reliability
- Intertek/ETL certified and listed on ETL certification program
- Reduced off-state icon visibility, increasing pedestrian safety
- Conformal coated power supply
- New improved one piece housing design
- Improved optical design to provide superior uniform appearance of the icons
- Transient suppression exceeds ITE and NEMA specifications (up to 6KV ring wave)
- All units operate at 80–135 VAC RMS, 60±3 Hz
- CSA C22.2 No. 250.0-08
- CSA C22.2 No. 250.13-17
- UL 1598, 3rd Edition

Part Number	Size	Symbol Color			Typical Wattage at 25 °C			Min Luminance (cd/m2)		
		Countdown	Hand	Person	Countdown	Hand	Person	Countdown	Hand	Person
430-6479-001X	16 x 18	Portland Orange	Portland Orange	Lunar White	8	11	10	1,400	1,400	2,200
430-7773-001X	12 x 12	Portland Orange	N/A	N/A	5	N/A	N/A	1,400	N/A	N/A



Dialight

ITE Compliant LED Signal Modules

ITE Compliant LED Traffic Signal

Module Performance Specifications

LED Ball Signal Modules: 8" (200 mm) and 12" (300 mm)

All shall be fully compliant to the ITE VTCSH LED Circular Supplement specifications dated and adopted June 27, 2005. Compliance to the ITE VTCSH-2 Interim Purchase Specification is not sufficient, and will not substitute for compliance to the ITE VTCSH LED Circular Supplement specifications. Additionally, prior to bid award, the manufacturer shall submit to purchaser, reports from ETL/Intertek, that certify full compliance of all LED ball signal modules to the entire ITE specification. These tests should include but not be limited to the luminous intensity measurements and requirements outlined in the ITE specification sections 6.4.4 through 6.4.4.4.2 (25°C and 74°C / 49°C). Evidence of full compliance to all required testing methods, procedures and sections as outlined in the above ITE document Figure 2, Design Qualification Testing Flow Chart must be included without any exceptions, changes or omissions. The manufacturer must also submit a datasheet showing the catalog number of the items submitted on the bid and the Independent Lab report must show full qualification of this catalog number.

LED 12" (300 mm) Arrow Signal Modules

All shall be fully compliant to the "Omni-directional" specifications of the ITE VTCSH-LED Vehicle Arrow Traffic Signal Supplement adopted July 1, 2007. Additionally, prior to bid award, the manufacturer shall submit to purchaser, reports from ETL/Intertek that certify full compliance of all LED Arrow signal modules. These tests should include but not be limited to the luminous intensity measurements and requirements outlined in the ITE specification sections 6.4.4 through 6.4.4.4.2 (25°C and 74°C / 49°C). Evidence of full compliance to all required testing methods, procedures and sections as outlined in the above ITE document Attachment 1, "Design Qualification Testing Flow Chart" must be included without any exceptions, changes or omissions. The manufacturer must also submit a data sheet showing the catalog number of the items submitted on the bid and the Independent Lab report must show full qualification of this catalog number.

LED 16" x 18" Countdown Pedestrian Signal Modules

All shall be fully compliant to the ITE PTCSI Part-2: LED Pedestrian Traffic Signal Modules specifications adopted August 4, 2010 or the latest adopted version as listed on the ITE website at time of bid. Additionally, prior to bid award, the manufacturer shall submit to purchaser, reports from ETL/Intertek that certify full compliance of LED signal modules, to these specifications. Evidence of full compliance to all required testing methods, procedures and sections as outlined in the above ITE document Attachment 2, "Design Qualification Testing Flow Chart" must be included without any exceptions, changes or omissions. The manufacturer must also submit a data sheet showing the exact catalog number of the items submitted on the bid and the Independent Lab report must show full qualification of this catalog number. Combination hand/person pedestrian signal modules shall incorporate separate power supplies for the hand and the person icons.

In addition to, and in excess of the above applicable ITE specification compliance, the on-board circuitry of all LED traffic signal modules shall include voltage surge protection, to withstand high-repetition noise transients and low-repetition high-energy transients as stated in Section 2.1.8, NEMA Standard TS 2-2003. In addition, the module shall comply with the following standards: IEC 1000-4-5 at 3kV with a 2 ohm source impedance, ANSI/IEEE C62, 41-2002; IEC 61000-4-12 (6kV, 200A, 100kHz ring wave).



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LED Traffic Signal Modules

Features & Benefits

- Fully compliant to ITE VTCSH-LED Circular Signal Supplement dated 6/27/2005
- Industry's lowest power for all colors
- Meets or exceeds ITE intensity, color and uniformity specifications, including 49°C/74°C requirements
- Temperature compensated power supplies for longer LED life
- Uniform appearance
- Expanded view radiation pattern suitable for span wire and steep grade applications
- Transient suppression exceeds ITE and NEMA specifications (up to 6KV ring wave)
- Manufactured with anti-capillary wires
- Conformal coated power supply
- Secondary lens treatment for abrasion resistance
- Patent No. 7,281,818 and other patents pending
- Intertek/ETL certified and listed on ETL certification program
- All units operate at 80–135VAC RMS, 60±3 Hz
- CSA C22.2 No. 250.0-08
- CSA C22.2 No. 250.13-17
- UL 1598, 3rd Edition

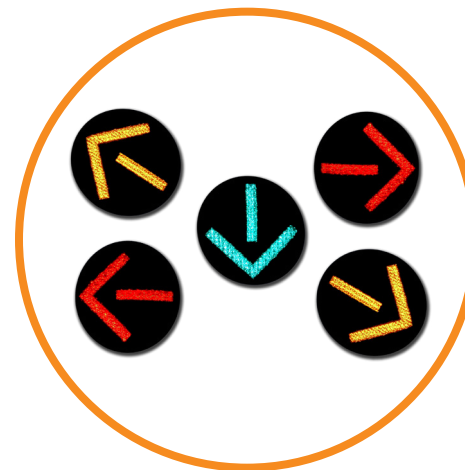
Part Number		Color	Dominant Wavelength (nm)	Typical Wattage at 25 °C	Peak Minimum Maintained Luminous Intensity (cd)
Tinted Lens	Clear Lens				

8" Module

433-1110-003XL	433-1170-003XL	● Red	625	7	165
433-3130-901XL	433-3170-901XL	● Yellow	590	8	410
433-2120-001XL	433-2170-001XL	● Green	500	7	215

12" Module

433-1210-003XL	433-1270-003XL	● Red	625	7	365
433-3230-901XL	433-3270-901XL	● Yellow	590	9	910
433-2220-001XL	433-2270-001XL	● Green	500	8	475



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12" Omni-Directional LED Arrow

Features & Benefits

- Fully compliant to ITE VTCSH-LED Vehicle Arrow Signal Supplement dated 7/1/2007
- Allows for mounting in any orientation in the signal head
- Industry's lowest power for all colors
- Meets or exceeds ITE intensity, color and uniformity specifications, including 49°C/74°C requirements at 48VDC
- Temperature compensated power supplies for longer LED life
- Uniform appearance
- Manufactured with anti-capillary wires
- Conformal coated power supply
- Secondary lens treatment for abrasion resistance
- All units operate at 36–60VDC
- CSA C22.2 No. 250.0-08
- CSA C22.2 No. 250.13-17
- UL 1598, 3rd Edition

Part Number		Color	Dominant Wavelength (nm)	Typical Wattage at 25 °C	Peak Minimum Maintained Luminous Intensity (cd)
Tinted Lens	Clear Lens				
432-1314-001XOD	432-1374-001XOD	● Red	628	6	58.6
431-3334-901XOD	431-3374-901XOD	● Yellow	590	7	141.6
432-2324-001XOD	432-2374-001XOD	● Green	500	6	73.9