

FEATURES & SPECIFICATIONS

INTENDED USE — The VT Series Volumetric LED Troffer (VTL) combines the aesthetics and high performance with intelligent LED engines for applications such as offices, schools, retail locations and hospitals. Highefficacy light engines deliver long life and excellent color, ensuring a superior guality lighting installation that is highly efficient and sustainable. Multiple lumen packages and driver options provide solutions for all your lighting applications. Featured nLight control system provides design flexibility and ease of installation and optimum energy savings.

CONSTRUCTION — Rugged, one-piece cold-rolled steel coated polyester, painted after fabrication with embossed facets. Impact-modified, single clear acrylic diffuser provides excellent shielding and wide distribution. End plates include integral T-bar clips. Fixture may be mounted and wired in continuous rows. Total fixture height is only 4-3/8".

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions, vertical and horizontal work surfaces — rendering the interior space, objects and occupants in a more balanced, complementary luminous environment. Linear faceted reflector cavity softens and distributes light into the space while minimizing luminous contrast between the fixture and ceiling. Sloped end plates provide a smooth, luminous transition between fixture and ceiling while enhancing the perception of fixture depth. High-performance diffuser provides LED concealment, even illumination across the diffuser and improved lumen-per-watt performance.

Now available with two different aesthetics including the standard Acrylic Linear Prismatic Diffuser (ADP) and the Acrylic Linear Prismatic Diffuser with Diffuser Trim Rings (ADPT).

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000).

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight[®] controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the VTLED luminaires using standard Cat-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Driver disconnect provided where required to comply with US and Canadian codes.

SENSOR— Integrated sensor (individual control): Sensor Switch MSD7ADCX ((Passive infrared (PIR)) or MSDPDT7ADCX ((PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 2 for more details on the integrated sensor.



Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 2 for the nLight sensor options.

INSTALLATION — Unique grid interfacing arrangement provides mounting into standard 1" and 9/16" tee bar or screw slot grids. 9/16" allows fixture trim to hang level with architectural ceiling tiles. Drywall ceiling adaptors available. Suitable for damp location.

LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at <u>www.designlights.org/QPL</u> to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. Example: 2VTL2 40L ADPT EZ1 LP840 MSD7ADC										
2VTL2										
Series		Air function	Lumens	Diffuser	Voltage		Driver		Color te	mperature
2VTL2 2X2	2 VTL	(blank) Static H Heat removal	20L 2000 ¹ 33L 3300 ¹ 40L 4000 ¹	ADP Acrylic linear prismatic ADPT Acrylic linear prismatic with diffuser trim rings	(blank) 347	MVOLT 347 ²	EZB G EDB G EXB G SLD S EXA1 I	eldoLED dims to 1% (0-10 volt dimming) eldoLED dims to dark (0-10 volt dimming) eldoLED DALI ³ eldoLED DMX/RDM ³ Step-level dimming ³ Dims to 1%, XPoint wireless enabled ⁴ Dims to dark, XPoint wireless enabled ⁴	LP830 LP835 LP840 LP850	82CRI, 3000 K 82CRI, 3500 K 82CRI, 4000 K 82CRI, 5000 K
Controls	ontrols Occupancy Control ⁶				Option	S				
N80 N80EMG N100 N100EMG	manag nLight manag genera nLight manag nLight manag	° with 80% lumen	NES7 n NESPDT7 n NES7ADCX n NESPDT7ADCX n	Io sensor control nLight Wired Networking ILight™ nES 7 PIR integral occupancy se ILight™ nES PDT 7 dual technology int iccupancy control ⁷ ILight™ nES 7 ADCX PIR integral occup vith automatic dimming photocell ⁷ ILight™ nES PDT 7 dual technology inte occupancy sensor with automatic dimm shotocell ⁷	egral ancy sensor egral	Ν	ADS7 ASD7ADCX ASDPDT7ADCX	Xpoint Wireless Networking Xpoint [™] micro 360° PIR occupancy sensor and automatic dimming photocell ^{4.8,9} Individual Control PIR integral occupancy sensor with automatic dimming control photocell ^{8,10} PDT integral occupancy sensor with automatic dimming control photocell ^{8,10}	EL7L EL14L CP	700 lumen battery pack 1400 lumen battery pack Chicago plenum
Notes 1 Approximate lumen output. 6 Must specify ADPT diffuser. See Accessories: Order as separate catalog number. 2 Consult factory for availability. Not available with SLD,EL7L or EL14 battery packs. 7 Requires N80, N80EMG, N100, N30EMG, N100, N100EMG. 8 Not available with N80, N80EMG, N100 or N100EMG. 8 Not available with N80, N80EMG, N100, Consult factory for availability. Not available with N80, N80EMG, N100, N100EMG. 9 Only available with N80, N80EMG, N100 or N100EMG. 9 Only available with N80, N80EMG, N100 or N100EMG. 9 Only available with XA1 or EX.						0, or N100E EMG, N100,	MG. or N100EMG.			

4 Visit www.lightingcontrols.com/XPointWireless for more information. 5 nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.

10 Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.

DGA24 FS/VT

9/16" T-bar; for 2x2 fixture

Drywall ceiling adapter with trim kit

Performance Data					
Lumen Package	Lumens	Input Watts ³	LPW		
20L LP830	2044.0	20.39	100.2		
20L LP835	2196.0	20.39	107.7		
20L LP840	2241.0	20.51	109.3		
20L LP850	2401.0	20.51	117.1		
33L LP830	3357.0	34.31	97.8		
33L LP835	3564.0	34.5	103.3		
33L LP840	3670.0	34.59	106.1		
33L LP850	3911.0	34.71	112.7		
40L LP830	3919.0	41.27	95.0		
40L LP835	4179.0	41.42	100.9		
40L LP840	4271.0	41.66	102.5		
40L LP850	4543.0	41.81	108.7		

Note: Based on ADP diffuser

Sensor Options						
	Automatic	Occupano	y Sensing	nLight Wired	Xpoint Wireless Networking	
Option	Dimming Photocell	PIR	PDT	Networking		
MSD7ADCX	Х	Х				
MSDPDT7ADCX	Х		Х			
NES7		Х		Х		
NES7ADCX	Х	Х		Х		
NESPDT7			Х	Х		
NESPDT7ADCX	Х		Х	Х		
XADS7	Х	Х			Х	

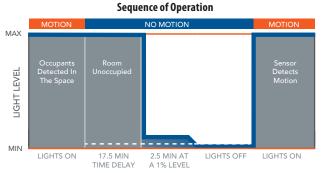
Basic nLight Zone



Integrated Sensor with Individual Control

The MSD7ADCX PIR occupancy sensor/automatic dimming photocell is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving.

The MSDPDT7ADCX PIR/Microphonics Dual Tech occupancy sensor/automatic dimming photocell is ideal for areas with obstructions and where daylight harvesting is desired. Suggested applications include, but not limited to, open offices, private offices, classrooms, public restrooms, and conference rooms.



*The presetting on the automatic dimming photocell is 5fc.

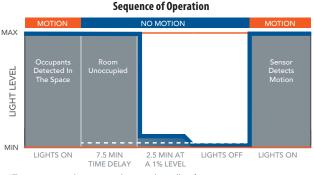
Sensor Coverage Pattern Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and
- 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- · Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

nLight Wired Networking

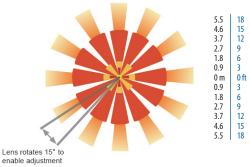
The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the NESPDT7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.



*The presetting on the automatic dimming photocell is 5fc.

9 FT Mounting

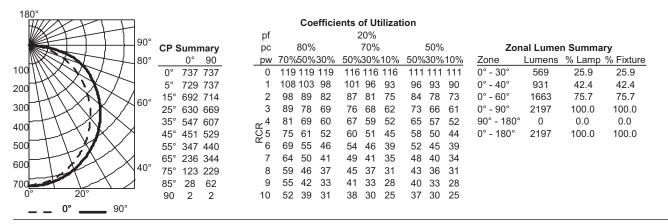




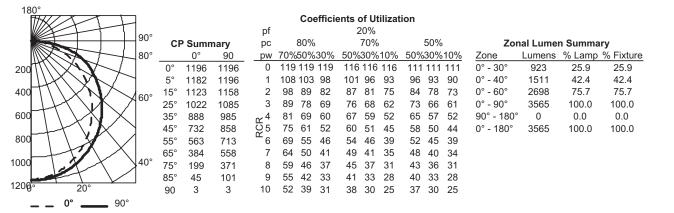
2VTL-2X2

PHOTOMETRICS

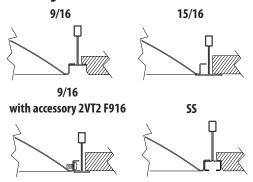
2VTL2 20L ADP LP835, 2196 delivered lumens, test no. LTL24790P, tested in accordance to IESNA LM-79



2VTL2 33L ADP L835, 3564 delivered lumens, test no. LTL24790P4, tested in accordance to IESNA LM-79



Mounting Data

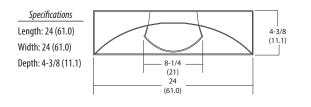


nLight [®] Control Accessories: Order as separate catalog number. Visit www.sensorswitch.com/nLight for complete listing of nLight controls.								
WallPod stations	Model number	Occupancy sensors	Model number					
0n/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9					
On/Off & Raise/Lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10					
Graphic Touchscreen	nPOD GFX	Wall switch with raise/lower	nWSXPDTLVDX					
Photocell controls	Model number	Cat-5 cable bundles (plenum rated)	Model number					
On/Off & Dimming	nCM ADCX	10', 15 pieces per bundle	CAT5 10FT					
		30', 15 pieces per bundle	CAT5 30FT					

Constant Lumen Management

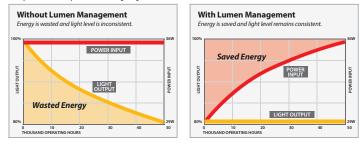
Dimensions

All dimensions are inches (centimeters) unless otherwise specified.





Enabled by the embedded nLight control, the VTL actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.



2VTL-2X2

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