

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. High-efficacy light engines deliver long life and excellent color, ensuring a superior quality 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 VTL 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 onboard 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 to confirm which versions are qualified.

WARRANTY — 5-year limited warranty.

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 INFOR	MATION Lead time	es will vary dependin	g on options selected. Consult with y	our sales represen	tative.	Example: 2VTL4 40L AD	PT EZ1 LP840 N100 NES
2VTL4							
Series	Air function	Lumens	Diffuser	Voltage	Driver		Color temperature
2VTL4 2X4 VTL	(blank) Static H Heat removal	30L 30001 40L 40001 48L 48001 60L 60001 72L 72001	ADP Acrylic linear prismatic ADPT Acrylic linear prismatic with diffuser trim rings	(blank) MVO 347 347 ²	EZB EDB EXB SLD EXA1	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 82CRI, 3000 K LP835 82CRI, 3500 K LP840 82CRI, 4000 K LP850 82CRI, 5000 K
				<u></u>			
Controls		Occupancy Contro	16				Options
mañag N80EMG nLigh mana gener N100 nLigh mana N100EMG nLigh mana	ight® t® with 80% lumen yement t® with 80% lumen gement For use with ator supply EM power ⁵ t® without lumen gement t® without lumen gement For use with ator supply EM power ⁵	NES7 nL NESPDT7 nL NESPDT7 nL NES7ADCX nL Wi NESPDT7ADCX nL oc	isensor control nLight Wired Networking ight [™] nES 7 PIR integral occupancy ser ight [™] nES PDT 7 dual technology inte cupancy control ⁷ ight [™] nES 7 ADCX PIR integral occup th automatic dimming photocell ⁷ ight [™] nES PDT 7 dual technology inte cupancy sensor with automatic dimm otocelll ⁷	egral ancy sensor egral	XADS7 MSD7ADCX MSDPDT7ADCX	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 700 lumen battery pack EL14L 1400 lumen battery pack CP Chicago plenum
2VT4 F916 T	<i>as separate catalog numbe</i> rim to adjust fixture moun -bar; for 2x4 fixture Yywall ceiling adapter witl	ting flush with 9/16'	Notes 1 Approximate lumen output 2 Consult factory for availabil 3 Not available with N80, N80 4 Gateway not included. Reqi 5 nLight EMG option requires provided from a separate Ni	ity. Not available wit DEMG, N100 or N100 uires on-site commis a connection to exis	EMG. sioning. ting nLight netwo	4 battery packs. 7 Requires N80, N80EMC 8 Not available with N80 9 Only available with EX	D, N80EMG, N100, or N100EMG. A1 or EXAB driver options. 1 driver option. 0-10v dimming

2VTL Volumetric Recessed Lighting 2'x4'

Performance Data				
Lumen Package	Lumens	Input Watts ³	LPW	
30L LP830	3168.4	30.76	103.0	
30L LP835	3326.1	30.76	108.1	
30L LP840	3677.2	30.76	119.5	
30L LP850	3665.8	30.76	119.2	
40L LP830	3992.1	38.98	102.4	
40L LP835	4210.7	38.98	108.0	
40L LP840	4315.3	38.98	110.7	
40L LP850	4622.6	38.98	118.6	
48L LP830	4619.5	46.43	99.5	
48L LP835	4879.3	46.43	105.1	
48L LP840	4993.3	46.43	107.5	
48L LP850	5354.5	46.43	115.3	
60L LP830	5069.4	52.15	97.2	
60L LP835	5351.3	52.15	102.6	
60L LP840	5500.3	52.15	105.5	
60L LP850	5867.8	52.15	112.5	
72L LP830	6751.8	69.25	97.5	
72L LP835	6884.8	69.25	99.4	
72L LP840	7394.9	69.25	106.8	
72L LP850	7803.7	69.25	112.7	

	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

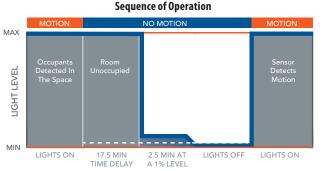


Note: Based on ADP diffuser

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.

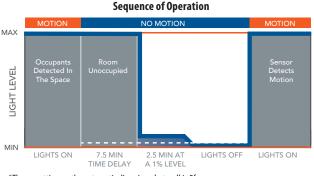
Sensor Coverage Pattern Mini 360° Lens

- 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

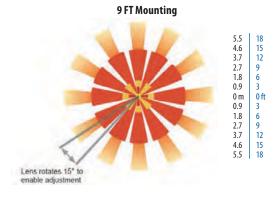
nLight Wired Networking

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.

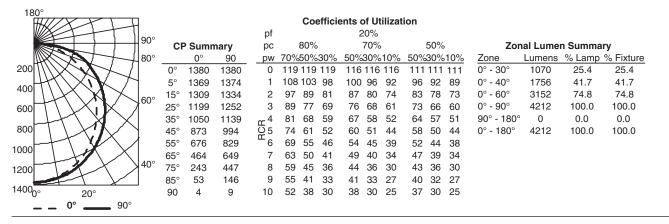


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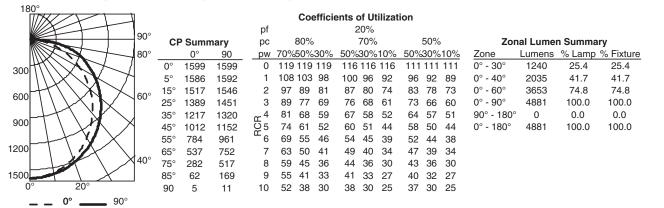
2VTL-2X4

PHOTOMETRICS

2VTL4 40L ADP LP835, 4211 delivered lumens, test no. LTL24782P4, tested in accordance to IESNA LM-79



2VTL4 48L ADP LP835, 4879 delivered lumens, test no. LTL24782P8, tested in accordance to IESNA LM-79



4-3/8

(11.1)

Mounting data

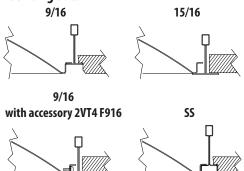
Dimensions

Specifications

Length: 48 (122.0)

Depth: 4-3/8 (11.1)

Width: 24 (61.0)

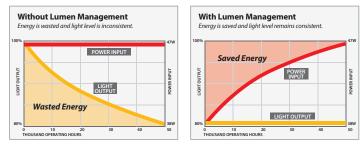


All dimensions are inches (centimeters) unless otherwise specified.

Light [®] Control Access rder as separate catalog		orswitch.com/nLight for complete listing of nLight o	ontrols.
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

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-2X4

LITHONIA LIGHTING

8-1/4

(21)

24 (61.0)