

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

Catalog Number

Notes

Type



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 www.designlights.org/QPL 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: 2VTL4 40L ADPT EZ1 LP840 N100 NES7

2VTL4						
Series	Air function	Lumens	Diffuser	Voltage	Driver	Color temperature
2VTL4 2X4VTL)	(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) MVOLT) 347 347 ²	EZ1 eldoLED dims to 1% (0-10 volt dimming) EZB eldoLED dims to dark (0-10 volt dimming) EDB eldoLED DALI ³ EXB eldoLED DMX/RDM ³ SLD Step-level dimming ³ EXA1 Dims to 1%, XPoint wireless enabled ⁴ EXAB Dims to dark, XPoint wireless enabled ⁴	LP830 82CRI, 3000 K (LP835 82CRI, 3500 K) LP840 82CRI, 4000 K LP850 82CRI, 5000 K

Occupancy Co	ntrol ⁶			Option	s
(blank) NES7 NESPDT7 NES7ADCX NESPDT7ADCX	occupancy sensor with automatic dimming	XADS7 MSD7ADCX MSDPDT7ADCX	Xpoint Wireless Networking Xpoint™ micro 360° PIR occupancy sensor and automatic dimming photocell⁴8.9 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
	(blank) NES7 NESPDT7 NES7ADCX	nLight Wired Networking NES7 nLight™ nES 7 PIR integral occupancy sensor ⁷ NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy control ⁷ NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ⁷ NESPDT7ADCX nLight™ nES PDT 7 dual technology integral	(blank) No sensor control nLight Wired Networking XADS7 NES7 nLight™ nES 7 PIR integral occupancy sensor³ NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy control² NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell² NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming	(blank) No sensor control nLight Wired Networking NES7 NESPDT7 nLight™ nES 7 PIR integral occupancy sensor³ NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell⁴.8.9 NES7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell⁴.8.9 Individual Control PIR integral occupancy sensor with automatic dimming photocell⁴.70 NESPDT7ADCX NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming control photocell⁴.70 NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming control photocell⁴.70	(blank) No sensor control nLight Wired Networking NES7 nLight™ nES 7 PIR integral occupancy sensor NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy sensor NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell NESPDT7 NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming control photocell NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming control photocell NESPDT7ADCX NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming control photocell NESPDT7ADCX NESPDT7ADCX NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming control photocell NESPDT7ADCX NESPDT7ADCX NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming control photocell NESPDT7ADCX

Accessories: Order as separate catalog number.

2VT4 F916 Trim to adjust fixture mounting flush with 9/16"

T-bar; for 2x4 fixture

DGA24 FS/VT Drywall ceiling adapter with trim kit

Notes

- 1 Approximate lumen output.
- 2 Consult factory for availability. Not available with SLD,EL7L or EL14 battery packs.
- 3 Not available with N80, N80EMG, N100 or N100EMG.
- 4 Gateway not included. Requires on-site commissioning. Visit <u>www.lightingcontrols.com/XPointWireless</u> 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.
- 6 Must specify ADPT diffuser. See sensor section on page 2.
- 7 Requires N80, N80EMG, N100, or N100EMG.
- Not available with N80, N80EMG, N100, or N100EMG.
- 9 Only available with EXA1 or EXAB driver options.
- 10 Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.

LED 2VTL-2X4

	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				

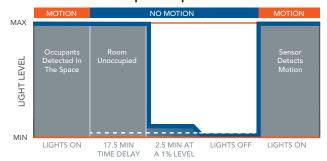
Note:	Based	on	ADP	diffuser

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.

Sequence of Operation



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

Sensor Options Automatic **Occupancy Sensing Xpoint** nLight Wired **Option Dimming** Wireless Networking PIR Photocell Networking MSD7ADCX Χ χ MSDPDT7ADCX Χ Χ NES7 χ NES7ADCX χ χ χ NESPDT7 χ χ NESPDT7ADCX χ χ χ XADS7 χ χ

Basic nLight Zone

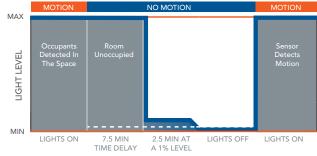


nLight Wired Networking

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.

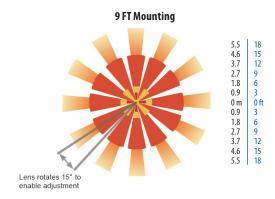
Sequence of Operation



^{*}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





2VTL-2X4

PHOTOMETRICS

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

1380

1374

1334

1252

1139

994

829

649

447

146

CP Summary

0°

1380

1369

1309

1199

1050

873

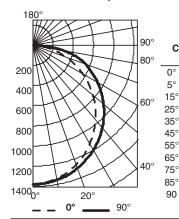
676

464

243

53

4



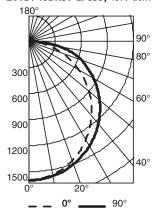
Coefficients of Utilization

		-	,,,,,						
pf				2	0%				
рс		80%			70%			50%	
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	108	103	98	100	96	92	96	92	89
2	97	89	81	87	80	74	83	78	73
3	89	77	69	76	68	61	73	66	60
د 4	81	68	59	67	58	52	64	57	51
25 5	74	61	52	60	51	44	58	50	44
^L 6	69	55	46	54	45	39	52	44	38
7	63	50	41	49	40	34	47	39	34
8	59	45	36	44	36	30	43	36	30
9	55	41	33	41	33	27	40	32	27
10	52	38	30	38	30	25	37	30	25

Zonal Lumen Summary Lumens % Lamp % Fixture Zone 1070 25.4 25.4 1756 41.7 41.7

0° - 30° 0° - 40° 0° - 60° 3152 74.8 74.8 0° - 90° 4212 100.0 100.0 90° - 180° 0 0.0 0.0 0° - 180° 4212 100.0 100.0

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



0.							
CF	Sumn	iary					
0° 90							
0°	1599	1599					
5°	1586	1592					
15°	1517	1546					
25°	1389	1451					
35°	1217	1320					
45°	1012	1152					
55°	784	961					
65°	537	752					
75°	282	517					
85°	62	169					

11

90 5

	Coefficients of Utilization								
pf				2	0%				
рс		80%			70%			50%	
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	108	103	98	100	96	92	96	92	89
2	97	89	81	87	80	74	83	78	73
3	89	77	69	76	68	61	73	66	60
4 س	81	68	59	67	58	52	64	57	51
<u>2</u> 5	74	61	52	60	51	44	58	50	44
^щ 6	69	55	46	54	45	39	52	44	38
7	63	50	41	49	40	34	47	39	34
8	59	45	36	44	36	30	43	36	30
9	55	41	33	41	33	27	40	32	27
10	52	38	30	38	30	25	37	30	25

Zonal Lumen Summary						
Zone	Lumens	% Lamp	% Fixture			
0° - 30°	1240	25.4	25.4			
0° - 40°	2035	41.7	41.7			
0° - 60°	3653	74.8	74.8			
0° - 90°	4881	100.0	100.0			
90° - 180°	0	0.0	0.0			
0° - 180°	4881	100.0	100.0			

Mounting data 9/16 15/16 9/16 with accessory 2VT4 F916 SS

nLight® Control Accessories:

Order as separate catalog number. Visit www.sensorswitch.com/nLight for complete listing of nLight controls.

WallPod stations	Model number
On/Off	nPODM [color]
On/Off & Raise/Lower	nPODM DX [color]
Graphic Touchscreen	nPOD GFX
Photocell controls	Model number
On/Off & Dimming	nCM ADCX

Occupancy sensors
Small motion 360°, ceiling (PIR / dual tech)
Large motion 360°, ceiling (PIR / dual tech)
Wall switch with raise/lower
Cat-5 cable bundles (plenum rated)

Wall switch with raise/lower
Cat-5 cable bundles (plenum rated)
10', 15 pieces per bundle
30', 15 pieces per bundle

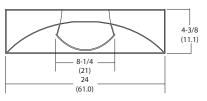
Model number
nCM 9 / nCM PDT 9
nCM 10 / nCM PDT 10
nWSXPDTLVDX
Model number
CATE 10FT

•	•	
es per bundle		CAT5 10FT
es per bundle		CAT5 30FT

Dimensions

All dimensions are inches (centimeters) unless otherwise specified.

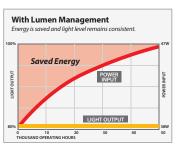




Constant Lumen Management

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





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Lumens

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	- 1



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 www.designlights.org/QPL 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

Air function

2VTI 2

Series

Lead times will vary depending on options selected. Consult with your sales representative.

Diffuser

Example: 2VTL2 40L ADPT EZ1 LP840 MSD7ADCX

Color temperature

				_					-
2VTL2 2X2 VTL	(blank) Static H Heat removal	20L 2000 33L 3300 40L 4000	ADPT Acrylic linear prismatic	(blank) 347	MVOLT 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 (LP835 LP840 LP850	82CRI, 3000 K 82CRI, 3500 K 82CRI, 4000 K 82CRI, 5000 K
Controls		Occupancy Cor	ntrol ⁶					Option	15
N80 nLigh mana N80EMG nLigh mana gene N100 nLigh	Light® nt® with 80% lumen agement nt® with 80% lumen agement For use with rator supply EM power ⁵ nt® without lumen agement	(blank) NES7 NESPDT7 NES7ADCX NESPDT7ADCX	No sensor control nLight™ Nets 7 PIR integral occupancy se nLight™ nES PDT 7 dual technology int occupancy control ⁷ nLight™ nES 7 ADCX PIR integral occup with automatic dimming photocell ⁷ nLight™ nES PDT 7 dual technology int	egral ancy sensor	r M	ADS7 SD7ADCX SDPDT7ADCX	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 plenun

Voltage

Driver

Accessories: Order as separate catalog number.

2VT2 F916 Trim to adjust fixture mounting flush with 9/16" T-bar; for 2x2 fixture

DGA22 FS/VT Drywall ceiling adapter with trim kit

generator supply EM power⁵

Notes

- 1 Approximate lumen output
- 2 Consult factory for availability. Not available with SLD,EL7L or EL14 battery packs.
- 3 Not available with N80, N80EMG, N100 or N100EMG.
- 4 Gateway not included. Requires on-site commissioning.
 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.
- 6 Must specify ADPT diffuser. See sensor section on page 2.
- 7 Requires N80, N80EMG, N100, or N100EMG.
- 8 Not available with N80, N80EMG, N100, or N100EMG.
- 9 Only available with EXA1 or EXAB driver options.
- 10 Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.

LED 2VTL-2X2

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 Op	tions		
	Automatic	Occupancy Sensing		nLight Wired	Xpoint
Option	Dimming Photocell	PIR	PDT	Networking	Wireless Networking
MSD7ADCX	Χ	Х			
MSDPDT7ADCX	Χ		Х		
NES7		Х		Х	
NES7ADCX	Χ	Х		Х	
NESPDT7			Х	Х	
NESPDT7ADCX	Х		Х	Х	
XADS7	Χ	Х			Х

Basic nLight Zone

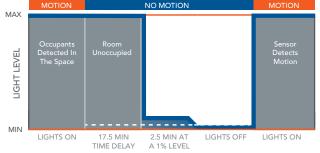


Integrated Sensor with Individual Control

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

 $The \, MSDPDT7ADCX \, PIR/Microphonics \, Dual \, Tech \, occupancy \, sensor/automatic \, dimming \, photocell \, is \, ideal \, and \, ideal \,$ 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.

Sequence of Operation



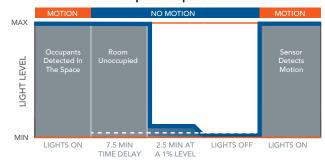
*The presetting on the automatic dimming photocell is 5fc.

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.

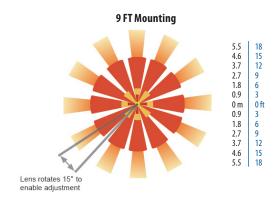
Sequence of Operation



*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



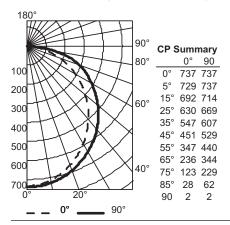


2VTL-2X2

www.lithonia.com

PHOTOMETRICS

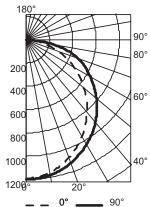
2VTL2 20L ADP LP835, 2196 delivered lumens, test no. LTL24790P, tested in accordance to IESNA LM-79



	Coefficients of Utilization								
pf				2	0%				
рс		80%			70%			50%	
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	108	103	98	101	96	93	96	93	90
2	98	89	82	87	81	75	84	78	73
3	89	78	69	76	68	62	73	66	61
~ ⁴	81	69	60	67	59	52	65	57	52
RCR 2	75	61	52	60	51	45	58	50	44
^L 6	69	55	46	54	46	39	52	45	39
7	64	50	41	49	41	35	48	40	34
8	59	46	37	45	37	31	43	36	31
9	55	42	33	41	33	28	40	33	28
10	52	39	31	38	30	25	37	30	25

Zor	Zonal Lumen Summary						
Zone	Lumens	% Lamp	% Fixture				
0° - 30°	569	25.9	25.9				
0° - 40°	931	42.4	42.4				
0° - 60°	1663	75.7	75.7				
0° - 90°	2197	100.0	100.0				
90° - 180°	0	0.0	0.0				
0° - 180°	2197	100.0	100.0				

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



CF	CP Summary				
	0°	90			
0°	1196	1196			
5°	1182	1196			
15°	1123	1158			
25°	1022	1085			
35°	888	985			
45°	732	858			
55°	563	713			
65°	384	558			
75°	199	371			
85°	45	101			
90	3	3			

Coefficients of Othization									
pf				2	0%				
рс		80%			70%			50%	
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	108	103	98	101	96	93	96	93	90
2	98	89	82	87	81	75	84	78	73
3	89	78	69	76	68	62	73	66	61
~ 4	81	69	60	67	59	52	65	57	52
RCR 2 2	75	61	52	60	51	45	58	50	44
^L 6	69	55	46	54	46	39	52	45	39
7	64	50	41	49	41	35	48	40	34
8	59	46	37	45	37	31	43	36	31
9	55	42	33	41	33	28	40	33	28
10	52	39	31	38	30	25	37	30	25

Coefficients of Utilization

Zonal Lumen Summary						
Lumens	% Lamp	% Fixture				
923	25.9	25.9				
1511	42.4	42.4				
2698	75.7	75.7				
3565	100.0	100.0				
0	0.0	0.0				
3565	100.0	100.0				
	923 1511 2698 3565 0	Lumens % Lamp 923 25.9 1511 42.4 2698 75.7 3565 100.0 0 0.0				

Mounting Data 9/16 15/16 9/16 with accessory 2VT2 F916 SS

nLight® Control Accessories: Order as separate catalog number. Visit www.sensorswitch.com/nLight for complete listing of nLight controls. WallPod stations Model number

On/Off & Dimming

0n/0ff nPODM [color] On/Off & Raise/Lower nPODM DX [color] **Graphic Touchscreen** nPOD GFX **Photocell controls**

Model number nCM ADCX

Occupancy sensors Small motion 360°, ceiling (PIR / dual tech)

Large motion 360°, ceiling (PIR / dual tech) Wall switch with raise/lower

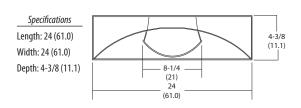
Cat-5 cable bundles (plenum rated) 10', 15 pieces per bundle 30', 15 pieces per bundle

Model number nCM 9 / nCM PDT 9 nCM 10 / nCM PDT 10 nWSXPDTLVDX

Model number CAT5 10FT CAT5 30FT

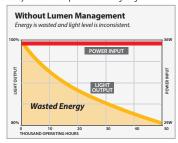
Dimensions

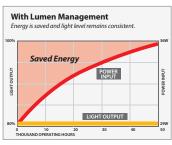
All dimensions are inches (centimeters) unless otherwise specified



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-2X2





INTENDED USE

Provides task or accent lighting in commercial, retail, hospitality and residential applications. Ideal for use under and over cabinets, display cases, task lighting, office lighting, coves and utility/work areas.

ATTRIBUTE

Durable aluminum construction in a low-profile design. Can be plugged in or direct-wired (splice box and 24" connector cord required for direct-wiring).

Link up to 10' of modular system to one transformer (required, sold separately). Fixtures can be linked end-to-end with the end row connector (sold separately). All fixtures include a 18" linking cord. 3", 24" and 121" connector cords may also be purchased separately.

LEDs have a 50,000 hour L70 rated life. Provides warm color temperature, 3,000K with CRI 85, and even illumination.

Dimmable when used with the optional step dimmer.

All mounting hardware included. Mounting clips allow for quick & easy installation flush or at 30°. All configurations tested to IES LM79 standards.

LISTING

CUL listed to US and Canadian safety standards.

WARRANTY

3-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.

Catalog Number
Notes
Туре

Indoor General Purpose

Rayzer™ Modular LED Lighting System





Example: RAZ18



Specifications

Length: RAZ9 - 9-1/4 (23.5)

RAZ12 - 12-1/4 (31.1)

RAZ18 - 18-1/4 (46.4)

RAZ24 - 24-1/4 (61.6)

Width: 1-1/4 (3.18)

Height: 1/2" (1.27)

All dimensions are inches (centimeters)

ORDERING INFORMATION For shortest lead times, configure products using **bolded options**.

Series ^{1,2}		Options
RAZ9 RAZ12 RAZ18 RAZ24	9" length - 3 LEDs 12" length - 4 LEDs 18" length - 6 LEDs 24" length - 8 LEDs	(Consult factory)

Accessories / Replacement Parts ^{1,2}								
	RAZTRANS24 120	24v transformer - 120v power source	RAZ ERC	End row connector				
	RAZTRANS24 MVOLT	24v transformer - Multi-Volt power source	RAZ PHD	Power hub distributor				
	RAZDIM	Step dimmer with remote touch pad	RAZ INLS26	In-line power switch				
	RAZ CC121	121" Linking cord (fixture to fixture)	UCD JB	Splice box - white (required for direct wire)				
	RAZ CC24	24" linking cord (fixture to fixture)	UCD JB BL	Splice box - black (required for direct wire)				
	RAZ CC3	3" linking cord (fixture to fixture)	UC ERC24 R12	24" connector cord - white (required for direct wire)				
	RAZLVCC	Low voltage linking cord (cord to cord)	UC ERC24 BL	24" connector cord - black (required for direct wire)				

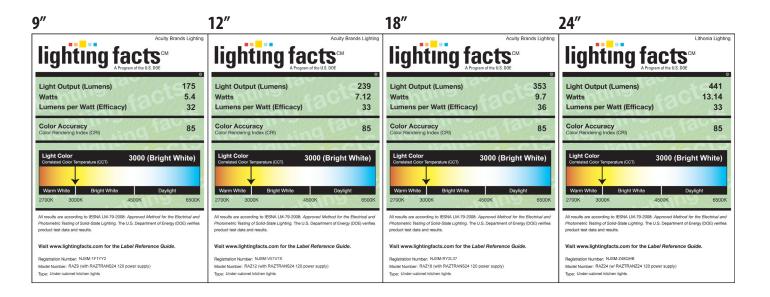
Notes:

- 1. Link up to 10' of modular system to one transformer.
- 2. Transformer is required for operation.

DECORATIVE INDOOR & OUTDOOR RAZC

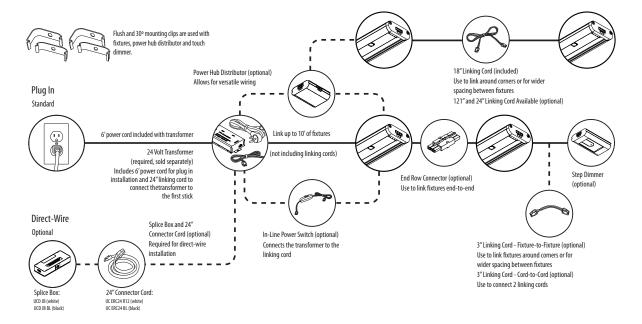
Rayzer™ LED Modular Lighting System

Full photometric data report available within 2 weeks from request. Consult factory.



INSTALLATION DIAGRAM

Note: Fixture includes 18" linking cord, mounting clips for flush or 30° mounting, and screws.





INTENDED USE — For wall or ceiling mounting, vertical or horizontal. The WL combines digital LED lighting and controls technologies with high-performance optical design to offer the most advanced wall-mount luminaire for general ambient lighting applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable.

CONSTRUCTION — Housing is roll formed from code-gauge steel.

Refractor is retained in die cast ends providing secure installation and easy maintenance.

Decorative die-cast end caps provide added durability.

Finish: All metal parts are post-painted in white polyester powder coat for smooth, finished edges and uniform light distribution.

OPTICS — Impact modified linear faceted refractor. Optically engineered for superior light distribution and maximum efficacy.

Crescent-shape linear faceted refractor system obscures and integrates individual LED images and uniformly washes fixture surface with light.

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). The LEDs have a CRI of 82.

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

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

CONTROLS — Optional nLight™ embedded controls continuously monitor system performance and allow for constant lumen management function.

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 energy waste created by the traditional practice of over-lighting.

Integral occupancy control: Integrated occupancy sensors allow luminaire to power off or dim to 10% or 50% output when space is unoccupied. Fixture designed to fail on.

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion (e.g. corridors, stairwells). Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting. For rooms like restrooms and private offices 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.

Wireless networking: XPoint[™] Wireless technology creates a mesh network to ensure communication between fixtures, sensors and wall stations facility-wide. This option provides superior lighting management capabilities including granular control, configuration and custom grouping. This option enables sensors that detect motion to wirelessly communicate to neighboring fixtures — whether

Catalog Number			
Notes			
Туре			



Wall bracket & Surface Mount LED





4

LED









eldoLED

Example: WL4 30L EZ1 LP840

on different floors in a stairwell, to a corridor or hallway — illuminating the desired path.

LISTINGS — CSA certified to meet U.S. and Canadian standards. Suitable for damp location.

Patents pending. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL 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.

WL4											
Series		Lume	ns¹	Voltage		Driver		Colorte	mperature	Lumen ma	nagement
WL4 4' wall-1	mount LED	20L 30L 40L	2000 lumens 3000 lumens 4000 lumens	(blank) 347	MVOLT (120 - 277V) 347V	EZ1 EZB SLD	eldoLED dims to 1%, 0-10V eldoLED dims to dark, 0-10V Step-level dimming ²	LP830 (LP835) LP840 LP850	3000 K 3500 K 4000 K 5000 K	(blank) N80 N100 N80EMG N100EMG	No nLight nLight with 80% lumen management nLight without lumen management nLight with 80% lumen management for use with generator supply emergency power ³ nLight without lumen management for use with generator supply emergency power ³

Occupancy control ⁴			Standby mode ¹⁰		Options		Finish ¹²	
NES7 NESPDT7 NES7ADCX XADS7 XADNS7 MSD7	Sensor Switch® nES 7 PIR integral occupancy sensor ⁵ Sensor Switch® nES PDT 7 dual technology integral occupancy control ⁵ Sensor Switch® nES 7 ADCX PIR integral occupancy sensor with automatic dimmng control photocell ⁵ XPoint™ Wireless controller and micro 360° PIR occupancy and photocell sensor ^{6,7} XPoint™ Wireless controller and micro 360° PIR occupancy and photocell sensor (egress lighting) ^{6,7} Sensor Switch® MSD 7 PIR integral occupancy sensor ^{8,9}	(blank) DIM10 DIM50	Fixture turns off when unoccupied Fixture dims to approximately 10% light output when unoccupied Fixture dims to approximately 50% light output when unoccupied ⁸	EL7L EL14L SC	LED Emergency battery pack (nominal 700 lumens); see Life Safety section ¹¹ LED Emergency battery pack (nominal 1400 lumens); see Life Safety section ¹¹ Surface conduit end cap provisions	(blank)	White	

Notes

- Approximate lumen output.
- Not available with XPoint™ Wireless or nLight options.
- 3 nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
- 4 See integral occupancy control section in header.
- 5 Requires N80 or N100
 - 6 Select (blank) under "Lumen management" for this option.
- 7 Gateway not included. Requires on-site commissioning. Visit <u>www.lightingcontrols.com/XPointWireless</u> for more information.
- 8 Not available with EZB.or SLD.

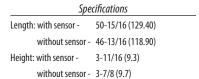
- 9 Requires DIM10 or DIM50.
- 10 Requires occupancy control. For XPoint™ Wireless select (blank). Standby mode is programmed at time of commissioning.
- 11 Not available with 347V.
- 12 For additional paint finishes refer to Architectural Colors

LED WL4-LED

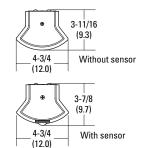
	Performance Data								
Lumen package	Lumens	LPW							
20L LP830	18.7	2050	110						
20L LP835	18.7	2152	115						
20L LP840	18.7	2255	121						
20L LP850	18.7	2410	129						
30L LP830	28.2	2952	105						
30L LP835	28.2	3095	110						
30L LP840	28.2	3251	115						
30L LP850	28.2	3239	115						
40L LP830	39.5	3927	99						
40L LP835	39.5	4124	104						
40L LP840	39.5	4325	110						
40L LP850	39.5	4571	116						

DIMENSIONS

All dimensions are inches (centimeters) unless otherwise noted.

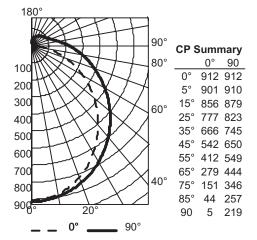


Width: 4-3/4 (12.1)



PHOTOMETRICS

WL4 30L EZ1 LP840, 3250.8 delivered lumens, test no. LTL25482P5, tested in accordance to IESNA LM-79

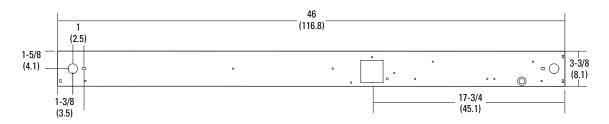


Coefficients of Utilization pf 20% 80% рс 70% 50% pw 70%50%30% 50%30%10% 50%30%10% 116 116 116 112 112 112 104 104 104 88 85 104 99 95 91 ACR 5 6 48 40 61 47 57 43 53 40 31 39 31 36 29 50 37 29 36 28 23 34 27 22

	Zor	nal Lumei	n Summa	rv
<u>6</u>	Zone			% Fixture
1	0° - 30°	701	21.6	21.6
	0° - 40°	1143	35.2	35.2
	0° - 60°	2032	62.5	62.5
	0° - 90°	2829	87.0	87.0
	90° - 120°	256	7.9	7.9
	90° - 130°	310	9.5	9.5
	90° - 150°	386	11.9	11.9
	90° - 180°	421	13.0	13.0
	0° - 180°	3251	100.0	100.0

MOUNTING DATA

For unit installation; surface ceiling or wall mounting.





WL4-LED

LED: