

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The VT Volumetric Troffer combines the aesthetics and high performance with intelligent LED engines for applications - offices, schools, retail locations and hospitals. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable. Featured nLight controls 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. Advanced optical film provides superior LED concealment and even illumination across the diffuser.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. VTLED is rated to deliver L80 performance for 50,000 hours.

Standard nLight™ embedded 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 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.

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

LED AccuDrive™ driver delivers full-range dimming from 0-10V control signal.

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

**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.

Patents pending.

DLC certified test to LM80 standings.

Catalog Number
Notes
Type



Volumetric Troffer

# 2VTLED

2' x 2'  
LED



DESIGNLIGHTS  
CONSORTIUM



### INDUSTRY RECOGNITION/AWARDS



**WARRANTY** — 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

Note: Specifications subject to change without notice.

### ORDERING INFORMATION

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

**Example:** 2VTL2 36L ADP D36 LP835 N100

2VTL2						ADP														
Series		Air function		Lumens		Diffuser		Voltage		Wattage		Color temperature		Controls				Options		
2VTL2	Volumetric troffer 2X2 LED	(blank) H	Static Heat removal	24L	2400 lumens <sup>1</sup>	ADP	Acrylic linear prismatic	(blank)	MVOLT	D24	24W <sup>3</sup>	LP835	82 CRI, 3500K	NX	Dimming, no nlight			EL14L	1400 lumen battery pack	
				36L	3600 lumens <sup>1</sup>			347	347 <sup>2</sup>		D36	36W <sup>4</sup>	LP840	82 CRI, 4000K	BLD	Bi-level dimming				
													LP850	82 CRI, 5000K	N80	nlight with 80% lumen management.				
															N80EMG	nlight with 80% lumen management. For use with generator supply EM power.				
															N100	nlight without lumen management.				
															N100EMG	nlight without lumen management. For use with generator supply EM power.				

nLight™ Control Accessories:			
Order as separate catalog number. Visit <a href="http://www.sensorswitch.com/nLight">www.sensorswitch.com/nLight</a> for complete listing of nLight controls.			
<b>WallPod stations</b>	<b>Model number</b>	<b>Occupancy sensors</b>	<b>Model number</b>
On/Off	nPODM [color]	Standard range 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPODM DX [color]	Extended range 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX	Wide view (PIR / dual tech)	nWV 16 / nWV PDT 16
<b>Photocell controls</b>	<b>Model number</b>	<b>Cat-5 cable bundles (plenium rated)</b>	<b>Model number</b>
Continuous dimming	nCM ADC	10', CAT5 10FT	CAT5 10FT J1
On/Off & Dimming	nCM PC ADC	15', CAT5 15FT	CAT5 15FT J1

Accessories: Order as separate catalog number.	
2VT2 F916	Trim to adjust fixture mounting flush with 9/16" T-bar; for 2x2 fixture
DGA22	Drywall ceiling adaptor, unit installation

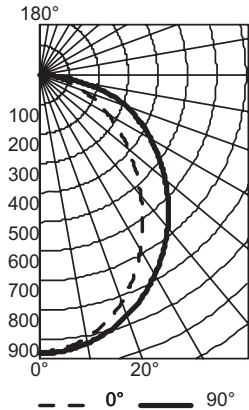
#### Notes

- 1 Approximate lumen output.
- 2 Consult factory for availability. Not available with EL14 battery pack or BLD controls.
- 3 For use with 2400 lumen system. Approximate input power (watts) +/-5%.
- 4 For use with 3600 lumen system. Approximate input power (watts) +/-5%.

# 2VTLED Volumetric Recessed Lighting 2'x2'

## PHOTOMETRICS

2VTL2 24L ADP LP835, 2425 delivered lumens, test no. LTL20369, tested in accordance to IESNA LM-79



### CP Summary

0°	90
0°	943 943
5°	931 941
15°	870 902
25°	755 829
35°	607 731
45°	461 616
55°	329 494
65°	210 373
75°	104 235
85°	23 53
90°	1 1

### Coefficients of Utilization

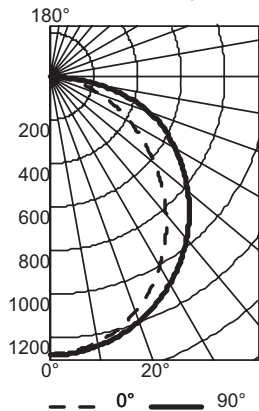
pf	80%	20%	50%
pc	70%	50%	30%
pw	70%	50%	30%
0	119 119 119	116 116 116	111 111 111
1	109 104 100	102 98 94	97 94 91
2	99 91 84	89 82 77	85 80 75
3	90 80 71	78 70 64	75 69 63
4	83 71 62	69 61 55	67 60 54
5	76 63 54	62 54 47	60 53 47
6	70 57 48	56 48 42	54 47 41
7	65 52 43	51 43 37	50 42 37
8	61 47 39	47 39 33	45 38 33
9	57 44 35	43 35 30	42 35 30
10	53 40 32	40 32 27	39 32 27

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	703	29.0	29.0
0° - 40°	1123	46.3	46.3
0° - 60°	1906	78.6	78.6
0° - 90°	2425	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	2425	100.0	100.0

Efficiency: 100.0%

2VTL2 36L ADP L835, 3617 delivered lumens, test no. LTL20407, tested in accordance to IESNA LM-79



### CP Summary

0°	90
0°	1274 1274
5°	1262 1273
15°	1200 1230
25°	1081 1149
35°	918 1038
45°	726 900
55°	524 743
65°	332 576
75°	164 366
85°	37 87
90°	2 2

### Coefficients of Utilization

pf	80%	20%	50%
pc	70%	50%	30%
pw	70%	50%	30%
0	119 119 119	116 116 116	111 111 111
1	108 103 99	101 97 93	97 94 90
2	98 90 83	88 81 76	84 79 74
3	90 79 70	77 69 63	74 67 62
4	82 70 61	68 60 53	66 58 53
5	75 62 53	61 52 46	59 51 46
6	69 56 47	55 46 40	53 46 40
7	64 51 42	50 42 36	48 41 35
8	60 46 38	46 37 32	44 37 32
9	56 43 34	42 34 29	41 33 28
10	53 39 31	39 31 26	38 31 26

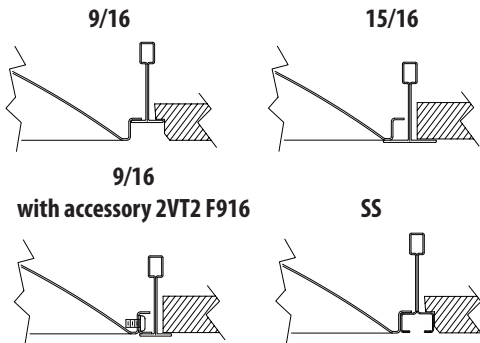
### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	977	27.0	27.0
0° - 40°	1590	44.0	44.0
0° - 60°	2793	77.2	77.2
0° - 90°	3617	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	3617	100.0	100.0

Efficiency: 100.0%

Contact factory for 4000K.

## Mounting Data

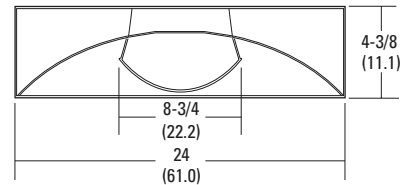


## Dimensions

All dimensions are inches (centimeters) unless otherwise specified.

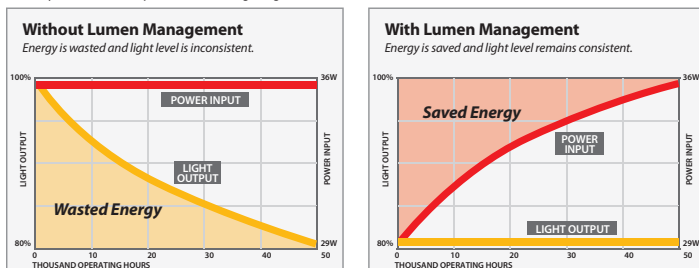
### Specifications

Length: 24 (61.0)  
Width: 24 (61.0)  
Depth: 4-3/8 (11.1)



## Constant Lumen Management

Enabled by the embedded nLight control, the VTLED 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.



### LED Energy Comparison to T5/T8

System	Lamp type	Ballast factor	Input watts	Watts saved by using LED
VTLED N100 (3600L)	LED	1.0	36	-
VTLED N80 (3600L)	LED	1.0	29	-
2-lamp T8	F32T8U	0.88	58	22
2-lamp T5	F24T5HO	1.0	54	18

### Notes

- With nlight 80% lumen management input watts start at 29 and gradually increasing to 36 at 50,000 hrs when using 36L system.