

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The 2VTL2R LED Relight assembly is the ideal solution for renovating existing fluorescent troffer and parabolic systems, delivering improved quality of light and refreshing the space. VTLR volumetric lighting eliminates the “cave effect” by delivering the ideal amount of light to walls, work surfaces, and people. The 2VTL2R Relight assembly is recommended for offices, schools, hospitals, and other general lighting applications where existing 2x2 troffer and parabolic fluorescent fixtures are currently in use.

**CONSTRUCTION** — Universal end brackets are constructed of 20-gauge powder-painted steel and are secured to the host fixture with provided tek screws. End brackets are painted black or white to match existing parabolic or troffer door frame reveals. The LED light engine is 20-gauge powder painted steel and is wired to the supply voltage using a driver-disconnect plug system provided as standard. A steel wiring connection cover is provided for use if required.

The door frame and reflector assembly is vaulted cold-rolled steel with embossed facets and is painted after fabrication. Impact-modified, single clear acrylic diffuser provides excellent shielding and wide distribution.

**OPTICS** — Volumetric illumination is delivered 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.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000).

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 2VTL2R 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.

**INSTALLATION** — After existing fluorescent components are removed from housing, universal end brackets are fastened in place with tek screws. The LED light engine assembly mounts to the end brackets and hangs securely while the wiring connection is made using a driver-disconnect plug system provided as standard. The light engine then swings up into position and is secured in place with a captive screw at each end. The door frame is then inserted via a sliding hinge into the end bracket and secured in the closed position with a rotating cam latch. Light engine may be removed from fixture during service. LED boards include plug-in connectors for easy replacement or servicing. Suitable for damp location installations.

**LISTINGS** — UL/UL classified for use in recessed fluorescent light fixtures. Installation per instructions will not impact existing fixture UL listing. Tested to LM80 standards. 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](http://www.designlights.org/QPL) to confirm which versions are qualified.

Protected by one or more of US Patent Nos. 7,229,192; D541,467; D541,468; D544,633; D544,634; D544,992. D544,933 and additional patents pending.

**WARRANTY** — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**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
Type

**VT SERIES**  
**RELIGHT**

**Volumetric Troffer**



**2VTL2R**  
**2VTL2RT**

2' x 2' Relight  
LED



eldoLED



### Specifications

Designed to convert most existing recessed parabolic and lensed troffers.

### Capable Luminaire

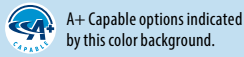
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background**\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background**\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

# 2VTL2R Volumetric Recessed Lighting 2'x2'



## ORDERING INFORMATION

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

**Example:** 2VTL2R 33L ADP EZ1 LP835

Series	Lumens <sup>1</sup>	ADP Diffuser	Voltage	Driver	Color temperature
2VTL2R 2x2 LED reilight assembly, black end brackets for use in parabolic fixture	20L 2000 33L 3300	ADP Acrylic linear prismatic	(blank) MVOLT (120 - 277V)	EZ1 eldoLED, dims to 1% EZB Dims to dark	LP835 82 CRI, 3500 K LP840 82 CRI, 4000 K
2VTL2RT 2x2 LED reilight assembly, white end brackets for use in troffer fixture	40L 4000		347 347V <sup>2</sup>	GZ1 Dims to 1% (0-10V dimming) <sup>3</sup> GZ10 Dims to 10% (0-10V dimming) <sup>3</sup>	LP830 82 CRI, 3000 K LP850 82 CRI, 5000 K
2VTL2RF 2x2 LED reilight assembly, flange brackets for drywall installation				GTH250 Bi-level (2-switch)	

Controls	Options
(blank) No controls	BDP Disconnect Plug
N80 N-light with 80% lumen management <sup>4</sup>	
N100 N-light with no lumen management <sup>4</sup>	
N80EMG N-light with 80% lumen management for use with generator supply EM power <sup>4,5</sup>	
N100EMG N-light without lumen management for use with generator supply EM power <sup>4,5</sup>	

### Notes

- 1 Approximate lumen output.
- 2 Available on GZ1 and GZ10. When EZ1 or EZB is ordered, 347 step-down transformer ships separately as field-installed option. Not Available with GTH250 driver option. Verify compliance with local codes prior to ordering.
- 3 GZ1, GZ10 not available with any Controls options.
- 4 Only available with EZ1 or EZB drivers.
- 5 nLight EMG option requires a connection to existing nLight network Power is provided from a separate N80 or N100 enabled fixture.

Accessories: Order as separate catalog number.	
RK8BDP 2P U	Disconnect Plug (BDP), 2 Pole, Package of 1
RK8BDP 3P U	Disconnect Plug (BDP), 3 Pole, Package of 1
RK8BDP 2P J10	Disconnect Plug (BDP), 2 Pole, Package of 10
RK8BDP 2P J40	Disconnect Plug (BDP), 2 Pole, Package of 40

Energy Comparison - 2x2 LED vs. T12 & T8				
System	Lamp type	Ballast factor	Input watts <sup>1</sup>	Watts saved by using LED
2VTL2R 20L	LED	1.0	19.6	---
3-lamp T12 F40	F40T12U	0.88	108	88
3-lamp T8 F32	F32T8U	0.88	90	70
3-lamp T12 F20	F20T12	0.88	84	64
3-lamp T8 F17	F17T8	0.88	47	27
2-lamp T12	F40T12U	0.88	72	52
2-lamp T8	F32T8U	0.88	60	40

### Notes

1. Actual wattage may differ by +/- 5% when operating between 120-277V +/- 10%.

Performance Data			
Lumen Package	Lumens	Input Watts	LPW
20L LP830	2128	17.4	122
20L LP835	2286	17.4	131
20L LP840	2333	17.5	133
20L LP850	2500	17.5	143
33L LP830	3495	29.3	119
33L LP835	3711	29.4	126
33L LP840	3821	29.5	129
33L LP850	4072	29.3	139
40L LP830	4080	35.2	116
40L LP835	4351	35.3	123
40L LP840	4447	35.5	125
40L LP850	4730	35.7	133

## Emergency Battery Pack Options – Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.

\*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

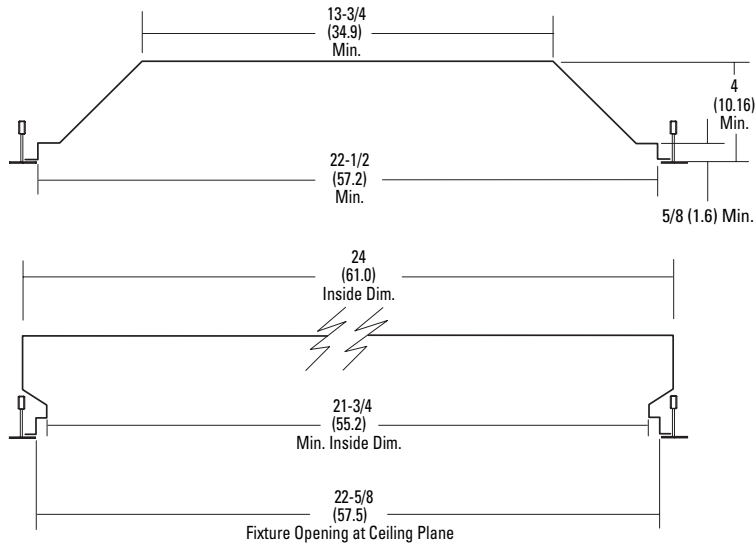
The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

Please contact us at [productsupportemergency@acuitybrands.com](mailto:productsupportemergency@acuitybrands.com) for any Emergency Battery related questions.

# 2VTL2R Volumetric Recessed Lighting 2'x2'

## FIT COMPATIBILITY

The 2VTL2R Relight assembly was engineered to upgrade recessed 2X2 fixtures, including most parabolic and lensed troffers from all major manufacturers. Dimensional requirements are below but Lithonia Lighting recommends a trial installation prior to purchasing project quantities.

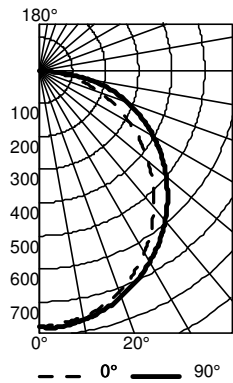


**Relight assemblies are designed to fit most recessed fixtures mounted in T-grid installations. For surface mounted fixtures or for fixtures mounted in ceiling types other than T-grids, consult factory before ordering.**

Dimensions are inches (centimeters) unless otherwise noted.

## PHOTOMETRICS

2VTL2R 20L EZ1 LP835, 2286 delivered lumens, test no. LTL25405P101 tested in accordance to IESNA LM-79



CP Summary		
	0°	90°
0°	773	773
5°	767	777
15°	738	749
25°	676	701
35°	589	633
45°	485	548
55°	373	451
65°	255	344
75°	139	222
85°	40	55
90°	6	0

pc	pw	Coefficients of Utilization								
		80%			70%			50%		
		70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111	111
1	108	103	99	101	97	93	96	93	90	90
2	98	89	82	87	81	75	84	78	74	74
3	89	78	70	77	69	62	74	67	61	61
4	81	69	60	68	59	53	65	58	52	52
5	75	62	52	61	52	45	58	51	45	45
6	69	55	46	54	46	40	53	45	39	39
7	64	50	41	49	41	35	48	40	35	35
8	60	46	37	45	37	31	44	36	31	31
9	56	42	34	41	33	28	40	33	28	28
10	52	39	31	38	31	25	37	30	25	25

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0° - 30°	601	26.3	26.3
0° - 40°	982	43.0	43.0
0° - 60°	1743	76.3	76.3
0° - 90°	2285	100.0	100.0
90° - 120°	0	0.0	0.0
90° - 130°	0	0.0	0.0
90° - 150°	0	0.0	0.0
90° - 180°	0	0.0	0.0
0° - 180°	2286	100.0	100.0