

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. 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 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/cUL 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



2' x 2' Relight LED



Example: 2VTL2R 33L ADP EZ1 LP835

Specifications

Designed to convert most existing recessed parabolic and lensed troffers.

product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products 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.

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 $^{\circ}$ C. Note: Specifications subject to change without notice.

ORDERING INFORMATION

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

			ADP									
Series		Lumens ¹	Diffus	er	Voltage		Driver		Color temper	ature	Controls	
2VTL2R 2VTL2RT 2VTL2RF	2x2 LED relight assembly, black end brackets for use in parabolic fixture 2x2 LED relight assembly, white end brackets for use in troffer fixture 2x2 LED relight assembly, flange brackets for drywall installation	20L 2000 33L 3300 40L 4000	ADP	Acrylic linear prismatic	(blank) 347	MVOLT (120 - 277V) 347V ²	EZ1 EZB GTH250 EXA1 EXAB	eldoLED, dims to 1% Dims to dark Bi-level (2-switch) Dims to 1%, XPoint wireless enabled ³ Dims to dark, XPoint wireless enabled ³	LP835 LP840 LP830 LP850	82 CRI, 3500 K 82 CRI, 4000 K 82 CRI, 3000 K 82 CRI, 5000 K	(blank) N80 N100 N80EMG N100EMG	No controls N-light with 80% lumen management ⁴ N-light with no lumen management ⁴ N-light with 80% lumen management for use with generator supply EM power ^{4,5} N-light without lumen management for use with generator supply EM power ^{4,5}

Notes

- 1 Approximate lumen output.
- Option ships separately as a field-installed accessory. Not available with GTH250 driver option. Verify compliance with local codes prior to ordering.
- 3 Gateway not included. Requires on-site commissioning.
- 4 Only available with EZ1 or EZB drivers
- nLight EMG option requires a connection to existing nLight network Power is provided from a separate N80 or N100 enabled fixture.

LED 2VTL2R-2X2

Energy Comparison - 2x2 LED vs. T12 & T8									
System	Lamp	Ballast	Input	Watts saved					
	type	factor	watts ¹	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					

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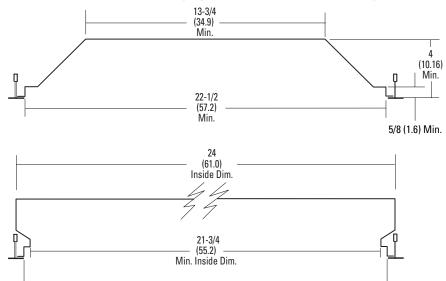
^{1.} Actual wattage may differ by +/-5% when operating between 120-277V +/-10%.

Performance Data								
Lumen Package	Lumens	Input Watts ¹	LPW					
20L LP830	1839	19.58	94					
20L LP835	1931	19.58	99					
20L LP840	2023	19.58	103					
20L LP850	2133	19.79	108					
33L LP830	3219	35.26	91					
33L LP835	3384	35.26	96					
33L LP840	3550	35.26	101					
33L LP850	3734	35.26	106					
40L LP830	3476	38.97	89					
40L LP835	3641	38.97	93					
40L LP840	3825	38.97	98					
40L LP850	4046	38.42	104					

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.



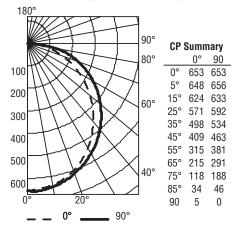
 Relight assemblies are designed to fit most recessed fixtures mounted in T-grid installations. For surface mounted fixtures or for fixtures mounted in ceiling types other than T-grids, consult factory before ordering.

Dimensions are inches (centimeters) unless otherwise noted.



PHOTOMETRICS

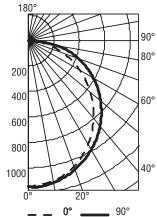
2VTL2R 20L EZ1 LP835, 1931.1 delivered lumens, test no. LTL25405P tested in accordance to IESNA LM-79



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

Zone	Lumens	% Lamn	% Fixture
0° - 30°	508	26.3	26.3
0° - 40°	830	43.0	43.0
0° - 60°	1473	76.3	76.3
0° - 90°	1931	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°	1931	100.0	100.0

2VTL2R 33L EZ1 LP835, 3384.1 delivered lumens, test no. LTL25405P2, tested in accordance to IESNA LM-79



CP Summary 0° 1144 1144 1150 1135 15° 1093 1110 25° 1001 1038 35° 872 937 811 45° 718 55° 552 668 65° 377 510 75° 206 329 59 81 90 9 0

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

Coefficients of Utilization

Zonal Lumen Summary								
Zone	Lumens	% Lamp	% Fixture					
0° - 30°	890	26.3	26.3					
0° - 40°	1454	43.0	43.0					
0° - 60°	2581	76.3	76.3					
0° - 90°	3383	100.0	100.0					
90° - 120°	1	0.0	0.0					
90° - 130°	1	0.0	0.0					
90° - 150°	1	0.0	0.0					
90° - 180°	1	0.0	0.0					
0° - 180°	3384	100.0	100.0					

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