LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

VT SERIES RELIGHT

Volumetric Troffer

2VT8RT

2' x 4' Relight T8

Specifications

Intended to be installed in most existing recessed lensed troffer fixtures (T-grid installation).

FEATURES & SPECIFICATIONS

INTENDED USE — The 2VT8RT Relight assembly is the ideal solution for renovating obsolete and inefficient lensed troffers, delivering improved quality of light and refreshing the space. VTR volumetric lighting eliminates the "cave effect" by delivering the ideal amount of light to walls, work surfaces, and people. The 2VT8RT Relight assembly is recommended for offices, schools, hospitals, and other general lighting applications where existing 2x4 lensed troffers are currently in use.

CONSTRUCTION — End bracket bases and lampholder brackets are constructed of 20-gauge powder-painted steel. End bracket bases are painted white to match existing lensed troffer doorframe surrounds, and a white side trim kit is included to cover old troffer gaps. The one-piece reflector is die-formed aluminum finished in either highly reflective 92% white powder paint (standard) or in 95% specular anodized finish (HE option).

The doorframe / external 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. Vaulted reflector cavity with linear facets 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 — Standard ballast is high-efficiency, CEE (Consortium for Energy Efficiency) qualified, instant start, <10% THD, universal voltage and sound rated A. Suggested lamps are high-lumen, long-life super T8 lamps which contribute to optimizing system performance. Optional program start and step-dim bi-level ballasts are available as well as several ballast factor options to maximize energy savings and to allow the amount of light to be balanced to the application.

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

INSTALLATION — End bracket bases (painted white to match lensed troffer finish) are secured to the host fixture with provided tek screws. The pre-wired electrical module is mounted to the host fixture channel with included self-tapping tek screws. The lampholder assemblies are pre-wired to the ballast and simply snap into position on the end brackets. Optimum lamp position relative to aperture is consistently maintained by the positive snap-fit installation. The ballast assembly wires to the supply voltage using a driver-disconnect plug system provided as standard. (A wiring connection cover is provided for use if required.) The one-piece highly efficient reflector slides into place and is secured without tools using integral tabs.

The unitized reflector / refractor doorframe assembly attaches firmly to the end bracket via a reliable sliding hinge and is secured in the closed position with a rotating cam latch. The doorframe and reflector assembly is cold-rolled steel with embossed facets and is painted after fabrication. Impact-modified, single clear acrylic diffuser provides excellent shielding and wide distribution.

UL/cUL listing of the host fixture is not affected.

Suitable for damp location installations.

LISTINGS — UL / cUL Classified. Labeled for use in static fixtures. Installation of 2VT8RT does not impact existing fixture UL listing. NYC approved (#49192).

WARRANTY — 1-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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.

Note: Specifications subject to change without notice.

ORDERING INFORMATION

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

Example: 2VT8RT 2 32 ADP BINP

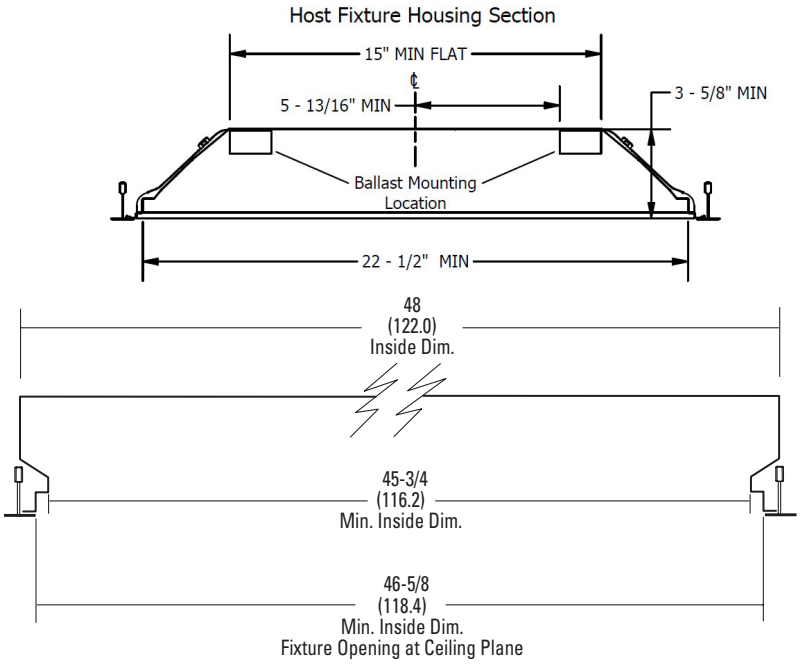
2VT8RT											
Series		**Number of lamps**	**Lamp type**		**Diffuser**		**Voltage**		**Ballast**		**Options**	
2VT8RT	Recessed 2x4 T8 relight assembly[1]	1 2 3	32	32W T8 (48")	ADP	Acrylic linear prismatic	(blank) 347	MVOLT 347V	BINP BILP BIHP BPNP BPLP BPHP BSNP	IS, high efficiency, .88 bf (normal) IS, high efficiency, .78 bf (low) IS, high efficiency, .1.20 bf (high) PS, high efficiency, .88 bf (normal) PS, high efficiency, .78 bf (low) PS, high efficiency, .1.20 bf (high) PS, step dimming, high efficiency, .88 bf (normal)	JP21 HE	Job packaging - 21 kits Enhanced efficiency specular reflector

Notes

1. White end brackets for installation in lensed troffers.

FIT COMPATIBILITY

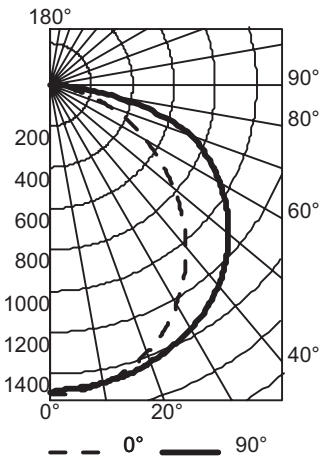
Relight assemblies are designed to fit most recessed fixtures mounted in T-grid installations. For surface mounted fixtures or for fixtures mounted in ceiling types other than T-grids, consult factory before ordering. Dimensional requirements are below but Lithonia Lighting recommends a trial installation prior to purchasing project quantities.



Dimensions are inches (centimeters).

PHOTOMETRICS

2VT8RT 232 ADP, (2) 32W T8 lamps, 2725 lumens per lamp, test no. LTL21632



CP Summary

	0°	90
0°	1493	1493
5°	1493	1475
15°	1432	1452
25°	1309	1400
35°	1132	1322
45°	907	1204
55°	657	1044
65°	410	846
75°	193	534
85°	29	93
90	0	1

Coefficients of Utilization

	pf	20%								
	pc	80%			70%			50%		
	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR	0	103	103	103	100	100	100	96	96	96
	1	93	89	85	87	83	80	83	80	78
	2	84	77	71	75	69	65	72	67	63
	3	77	67	60	66	59	53	63	57	52
	4	70	59	51	58	51	45	56	49	44
	5	64	53	45	52	44	38	50	43	38
	6	59	47	39	46	39	33	45	38	33
	7	55	43	35	42	35	29	41	34	29
	8	51	39	31	38	31	26	37	31	26
	9	48	36	28	35	28	23	34	28	23
	10	45	33	26	32	26	21	32	25	21

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1177	21.6	25.0
0° - 40°	1951	35.8	41.5
0° - 60°	3550	65.1	75.5
0° - 90°	4704	86.3	100.0
90° - 180°	0	0.0	0.0
0° - 180°	4704	86.3	100.0

Efficiency: 86.3%

FLUORESCENT: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com © 2012 Acuity Brands Lighting, Inc. All rights reserved. Rev. 07/16/13