

FEATURES & SPECIFICATIONS

INTENDED USE — The RT8RT relight assembly is the ideal solution for renovating obsolete parabolic or lensed troffer systems, delivering improved quality of light and refreshing the space. RT8RT volumetric lighting eliminates the “cave effect” by delivering the ideal amount of light to walls, work surfaces, and people.

The RT8RT relight assembly is recommended for schools, offices, hospitals and other general lighting applications. **Certain airborne contaminants can diminish integrity of acrylic.** [Click here for Acrylic Environmental Compatibility table for suitable uses.](#)

CONSTRUCTION — Universal end brackets containing the pre-wired ballast and sockets are constructed of 20-gauge powder-painted steel and are secured to the host fixture with provided TEK screws. A splice box is provided to enclose electrical connections, and a ballast disconnect plug system is provided as standard.

The reflector system uses a highly reflective white finish for optimum efficiency and attaches securely to the end brackets with quarter-turn fasteners. A one-piece trim assembly serves as the instrument that delivers the light. Molded and recyclable PETE (polyethylene) reflector is firmly attached to the universal bracket via reliable hinge and latch assembly. Included as part of the trim assembly are two linear prismatic acrylic refractors with light-diffusing finish for even illumination and lamp obscuration. Trim kit to cover side reveals (if necessary) is provided as standard.

Splice box replaces the typical wireway by providing a cover for the connections of incoming supply wire and is attached to the host fixture with two TEK screws.

OPTICS — Luminous characteristics are carefully managed at high angles, providing just enough intensity to develop the volumetric effect. Regressed, one-piece refractive system obscures and softens the lamp and smoothly washes the reflector with light. Linear faceted reflectors soften and distribute light into the space, and minimize the contrast between the fixture and the ceiling. Mechanical cutoff across the reflector and fresnel refraction along the reflector provide high-angle shielding and a quiet ceiling.

Sloped endplates provide a balanced fixture-to-ceiling ratio while enhancing the perception of the 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.

INSTALLATION — Trim hinges from either side. Lamp access by hinging trim down to 90°, providing hands-free access to lamps. For hands-free ballast access, continue process by removing two quarter-turn latches and remove reflectors.

LISTINGS — UL / cUL Classified. Labeled for use in both static and air-handling fixtures. Does not impact existing fixture UL listing. NYC approved (#49192).

WARRANTY — Fixture guaranteed for one year against mechanical defects in manufacture. System lamp (24 months) and ballast (60 months) warranty is provided by lamp and ballast manufacturer.

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.

Catalog Number
Notes
Type



Relight Volumetric Lighting

2RT8RT



FLUORESCENT
2' X 4' Relight
2 Lamp
High-performance T8

Specifications

Intended to be installed in most existing lensed troffer recessed fixtures (T-grid installation).
Weight: 20 lbs.

ORDERING INFORMATION

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

Example: 2RT8RT 232 BSNP

Series	Lamp type	Voltage	Ballast	Options
2RT8RT Recessed relight	232 2-Lamp, 32W T8 (48")	(blank) MVOLT ^{1,2} 347 347V	BILP IS, high efficiency, .78 bf (low) BINP IS, high efficiency, .88 bf (normal) BIHP IS, high efficiency, .1.20 bf (high) ³ BSNP PS, step dimming, high efficiency, .88 bf (normal)	JP18 Job packaging - 18 kits

Notes

- MVOLT standard for 120V-277V applications.
- Not available in 347V.
- Not available in high-efficiency 347V.

2RT8RT Volumetric Recessed Lighting 2' x 4'

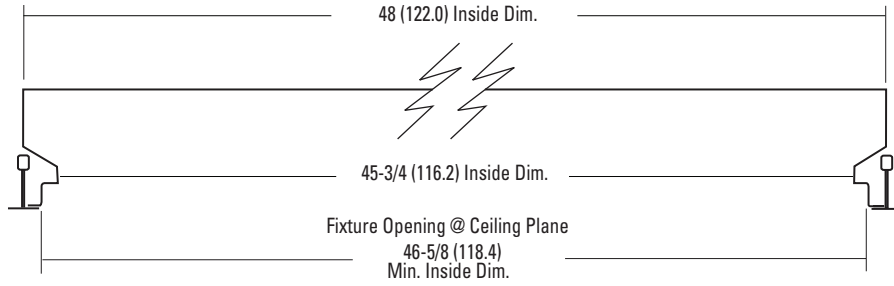
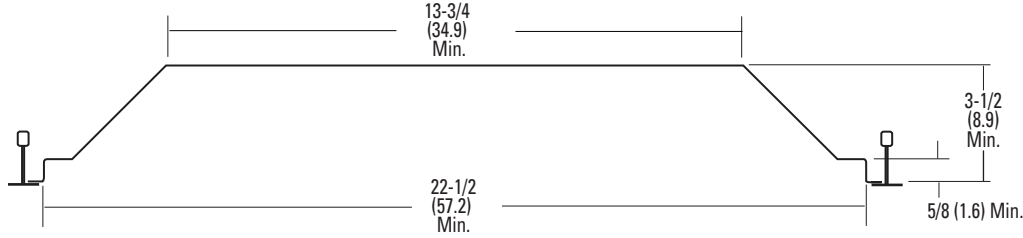
ENERGY AND LIGHT LEVEL COMPARISON

System	Light level	Input watts	Watts/SF	Watts saved	% Savings	\$ Savings per year	LER
Parabolic, (3) 2800 lumen T8 lamps .88 ballast factor	69	88	1.1	Base	Base	Base	65
RT8RT, (2) 3100 lumen T8 lamps, .78 ballast factor	41	48	0.6	40	45%	\$12.8	85

Light level in footcandles is calculated based on 8x10 mounting centers, 9 foot ceilings, 60 x 60 room, 80/50/20 reflectances, .95 LLD, .90 LDD, horizontal light level on 2.5 foot workplane height. Annual savings based on 4000 operating hours, \$.08/kwh. Luminaire Efficacy Rating (LER) is fixture lumen output divided by fixture input wattage.

FIT COMPATIBILITY

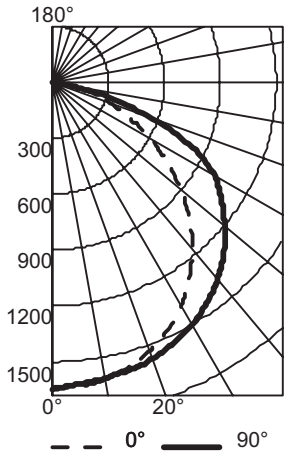
Relight assemblies are designed to fit most recessed fixtures mounted in T-grid installations. For surface mounted fixtures or for fixtures mounted in ceiling types other than T-grids, consult factory before ordering.



All dimensions are inches (centimeters).

In addition to conforming to the dimensions above, Lithonia Lighting recommends a trial installation prior to purchasing project quantities.

2RT8RT 232 BINP, (2) 32W T8 lamps, 3100 lumens per lamp, test no. LTL17725



CP Summary				Coefficients of Utilization										Zonal Lumen Summary			
0°				80%		20%				50%				Zonal			
0°	90°	180°	270°	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	Zone	Lumens	% Lamp	% Fixture
0°	1646	1646		0	95	95	95	93	93	93	89	89	89	0° - 30°	1303	21.0	26.3
5°	1639	1625		1	87	83	80	82	79	76	78	76	73	0° - 40°	2162	34.9	43.6
15°	1581	1597		2	79	73	67	71	66	62	68	64	60	0° - 60°	3920	63.2	79.0
25°	1465	1543		3	72	64	57	62	56	51	60	55	50	0° - 90°	4960	80.0	100.0
35°	1281	1444		4	66	56	49	55	48	43	53	47	43	90° - 180°	0	0.0	0.0
45°	1038	1298		5	60	50	43	49	42	37	47	41	37	0° - 180°	4960	80.0	100.0
55°	751	1107		6	56	45	38	44	37	32	43	37	32				
65°	458	829		7	52	41	34	40	33	28	39	33	28				
75°	211	296		8	48	37	30	36	30	25	35	29	25				
85°	40	20		9	45	34	27	33	27	23	32	27	23				
90°	0	0		10	42	31	25	31	25	21	30	24	20				



2RT8RT-2X4