

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The RT8R relight assembly is the ideal solution for renovating obsolete parabolic or lensed troffer systems, delivering improved quality of light and refreshing the space. RT8R volumetric lighting eliminates the “cave effect” by delivering the ideal amount of light to walls, work surfaces, and people.

The RT8R 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. **Bracket flange is painted black to match existing product reveal.** 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.

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/dUL 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.

*Specifications subject to change without notice.*

Catalog Number
Notes
Type



RELIGHT

Relight Volumetric Lighting

# 2RT8R



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

### Specifications

*Intended to be installed in any existing parabolic recessed fixture:*

Weight: 20 lbs.

### ORDERING INFORMATION

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

**Example: 2RT8R 232 BSNP**

Series	Lamp type	Voltage	Ballast	Options
<b>2RT8R</b> Recessed relight	<b>232</b> 2-lamp, 32W T8 (48")	<b>(blank)</b> MVOLT <sup>1,2</sup> 347 347V	<b>BILP</b> IS, high efficiency, .78 bf (low) <b>BINP</b> IS, high efficiency, .88 bf (normal) <b>BIHP</b> IS, high efficiency, .1.20 bf (high) <sup>3</sup> <b>BSNP</b> PS, step dimming, high efficiency, .88 bf (normal)	<b>JP18</b> Job packaging - 18 kits

<b>Accessories:</b> For field installation.	
RRC4	Side reveal cover (pair), available in sets of five (pairs) or 25 (pairs)

### Notes

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

# 2RT8R Volumetric Recessed Lighting 2' x 4'

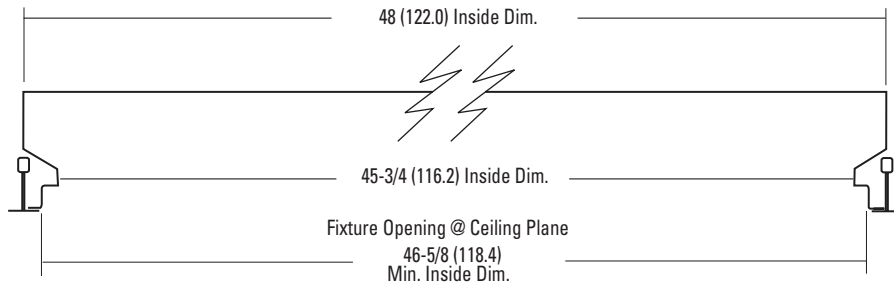
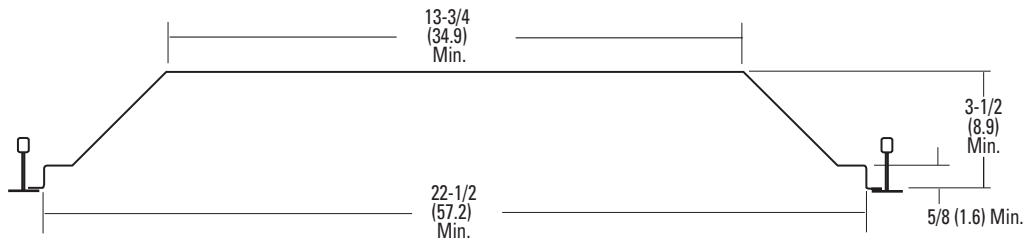
ENERGY AND LIGHT LEVEL COMPARISON							
System	Light level	Input watts	Watts/SF	Watts saved	% Savings	\$ Savings per year	LER
Parabolic, (3) 2800 lumen T8 lamps, .88 ballast factor	69	88	1.1	Base	Base	Base	65
RT8R, (2) 3100 lumen T8 lamps, .78 ballast factor	41	48	0.6	40	45%	\$12.80	85

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 work-plane 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

The 2RT8R relight assembly was engineered to upgrade parabolic fixtures from all major manufacturers conforming to the following dimensions:



Dimensions are inches (centimeters).

2RT8R assemblies also will upgrade many existing lensed troffers conforming to these dimensions. (Also see 2RT8RT).

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