

FEATURES & SPECIFICATIONS

INTENDED USE — The RT5RT relight assembly is the ideal solution for renovating obsolete parabolic or lensed troffer systems, delivering improved quality of light and refreshing the space. RT5RT volumetric lighting eliminates the “cave effect” by delivering the ideal amount of light to walls, work surfaces, and people.

The RT5RT 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 — Ballasts are high-efficiency, program-start electronic, Class P, thermally protected, resetting, HPF, non-PCB, UL Listed, CSA Certified, sound rating A. Two ballast factors are available to optimize lighting performance versus maximum energy savings. Bi-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance. SIMPLY5™ lighting intelligence system with multi-level dimming and direct-wire capability is available. For additional information, consult specification sheet at www.simply5.net.

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.

Specifications subject to change without notice.

| |
|----------------|
| Catalog Number |
| Notes |
| Type |



RELIGHT

Relight Volumetric Lighting

2RT5RT

2' X 4' Relight
2 Lamp
High-performance T5



Specifications

Intended to be installed in most existing parabolic and lensed troffer recessed fixtures.

Weight: 20 lbs.

ORDERING INFORMATION

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

Example: 2RT5RT 28T5 MVOLT GEB95S

| Series | Lamp type | Voltage | Ballast | Options |
|--------------------------------|--|--|---|--|
| 2RT5RT Recessed relight | 28T5 28W T5 (46") 54T5HO 54W T5HO ¹ | MVOLT² 347 ³ | GEB95 0.95 ballast factor GEB95S 0.95 ballast factor, step dimming GEB115 1.15 ballast factor GEB115S 1.15 ballast factor, step dimming GEB10PS 1.0 ballast factor, program start ⁴ S5 0.95 ballast factor, SIMPLY5 system ballast ² S5115 1.15 ballast factor, SIMPLY5 system ballast ² | EL14 Emergency battery pack ⁵ JP18 Job packaging - 18 kits HW Hardwire system for SIMPLY5 |

Notes

- Requires GEB10PS.
- MVOLT (120-277 volts), 50-60HZ.
- Use GEB95S for 14T5; use GEB10PS for 24T5HO.
- For 54T5HO only.
- See PS1400QD spec sheet for EL lumen output information. Battery pack is field-installed.

2RT5RT Volumetric Recessed Relighting 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 | 1.06 | Base | Base | Base | 65 |
| RT5RT, (2) 2730 lumen T5 lamps, .95 ballast factor | 46 | 58 | 0.72 | 30 | 34% | \$9.60 | 79 |

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 RT5™ relight assembly (RT5RT) was engineered to upgrade recessed 2x4 or 2x2 fixtures, including most parabolic and lensed troffer fixtures from all major manufacturers. Dimensional requirements are below, but **Lithonia Lighting recommends a trial installation prior to purchasing project quantities.**

