

FEATURES & SPECIFICATIONS

INTENDED USE — The RT5™ relight assembly is the ideal solution for renovating obsolete parabolic systems, delivering quality of light and refreshing the space. RT5R volumetric lighting eliminates the parabolic cave effect by delivering the ideal amount of light to walls, cubicles, work surfaces and people.

RT5R is suitable for replacing any 2' x 2' **parabolic fixture with at least 4-3/8"** overall depth. 2RT5R is not specifically designed for lensed troffers. (For lensed troffers see 2RT5RT.)

The RT5 relight assembly is recommended for offices, schools, hospitals, commercial and other general lighting applications. **Certain airborne contaminants can diminish integrity of acrylic.** [Click here for Acrylic Environmental Compatibility table for suitable uses.](#)

OPTICS — Luminous characteristics are carefully managed at high angles, providing just enough intensity to deliver the volumetric effect.

Regressed, one-piece refractive system obscures and softens the lamp and smoothly washes the reflector with light.

Linear faceted reflector softens and distributes light into the space and minimizes the contrast between the fixture and the ceiling. Mechanical cut-off across the reflector and fresnel refraction along the refractor provides high-angle shielding and a quiet ceiling.

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

CONSTRUCTION — The relight assembly consists of five component parts that easily install into the host fixture.

End brackets are constructed of heavy-gauge powder-painted steel and attached to host fixture with secure mounting hardware. Brackets form the platform for the attachment of the light engine and trim assembly. The light engine serves as the reflector system and is finished in high-reflective white power paint. To reduce time and labor for installation, lamps, sockets and ballasts are shipped installed and prewired on light engine. 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 hinge and latch assembly. Included in this assembly are two 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 host fixture with two TEK screws.

ELECTRICAL — Ballasts are high-efficiency, program-start electronic, Class P, thermally protected, resetting, HPF, non-PCB, UL Listed, CSA Certified, sound rating A.

F14T5 uses GEB115, producing 1.22 ballast factor standard for typical applications. F24T5H0 is available for higher ceiling applications.

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 on 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 screws and hinging light engine down.

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.

Catalog Number
Notes
Type



RELIGHT

Relight Volumetric Lighting

2RT5R



FLUORESCENT
2' X 2' Relight
2 Lamp

SIMPLY5™
LIGHTING INTELLIGENCE

Specifications

Intended to be installed in most existing parabolic recessed fixtures.

Weight: 11 lbs.

Protected by one or more of US Patents 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.

ORDERING INFORMATION

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

Example: 2RT5R 24T5H0 MVOLT GEB10PS LP835

Series	Lamp type	Voltage	Ballast	Lamp ⁵	Options
2RT5R					
2RT5R Recessed relight	14T5 14W T5 (22") 24T5H0 24W T5 (22") 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 (24T5H0) S5 0.95 ballast factor, SIMPLY 5 system ballast ² S5115 1.15 ballast factor, SIMPLY 5 system ballast	LP835 3500 K 28W LP830 3000 K 28W LP841 4100 K 28W	EL14 Emergency battery pack (nominal 1200 lumens); see Life Safety Section JP__ Job packaging - 16 or 32 kits HW Hard wired system for SIMPLY5 WH White end brackets

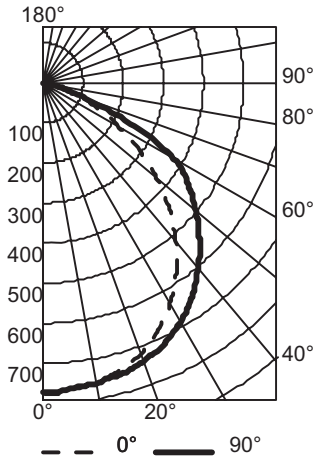
Accessories: For field installation.	
RRC2	Side reveal cover (pair), available in sets of five (pairs) or 25 (pairs)

Notes

- Requires GEB10PS.
- MVOLT (120-277 volts), 50-60HZ.
- Use GEB95S for 14T5; use GEB10PS for 24T5H0.
- For 24T5H0 only.
- Required. All fixtures shipped with lamps installed.
- See PS1400QD spec sheet for EL lumen output information.

2RT5R Volumetric Recessed Lighting 2' x 2'

2RT5R 14T5, (2) FP14/841/ECO lamps, 1200 lumens per lamp, s/m 1.2 (along) 1.3 (across), test no. LTL16598



CP Summary

	0°	90°
0°	773	773
5°	770	766
15°	743	752
25°	680	717
35°	579	649
45°	446	552
55°	294	443
65°	155	239
75°	61	50
85°	8	6
90°	0	0

Coefficients of Utilization

pc	80%			70%			50%		
	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	101	101	101	99	99	99	94	94	94
1	93	89	86	88	85	82	84	82	79
2	85	79	73	77	72	68	74	70	66
3	78	69	63	68	62	57	66	60	56
4	71	62	55	61	54	49	59	53	48
5	66	55	48	54	47	42	53	46	42
6	61	50	42	49	42	37	48	41	37
7	56	45	38	45	38	33	43	37	33
8	53	41	34	41	34	29	40	33	29
9	49	38	31	37	31	26	36	30	26
10	46	35	28	35	28	24	34	28	24

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	605	25.2	29.7
0° - 40°	989	41.2	48.6
0° - 60°	1714	71.4	84.2
0° - 90°	2035	84.8	100.0
90° - 180°	0	0.0	0.0
0° - 180°	2035	84.8	100.0

LER: 64

Efficiency: 84.8%

*The LER (Luminaire Efficacy rating) is the lumens per watt rating for this fixture. It is used to compare the energy of various products. This photometric report is based upon IES testing procedures, as stated in L-41-1998. The reported lumen rating is based upon lamp manufacturer's published lumen output for the cold spot temperature measured during lamp calibration.

ENERGY AND LIGHT LEVEL COMPARISON

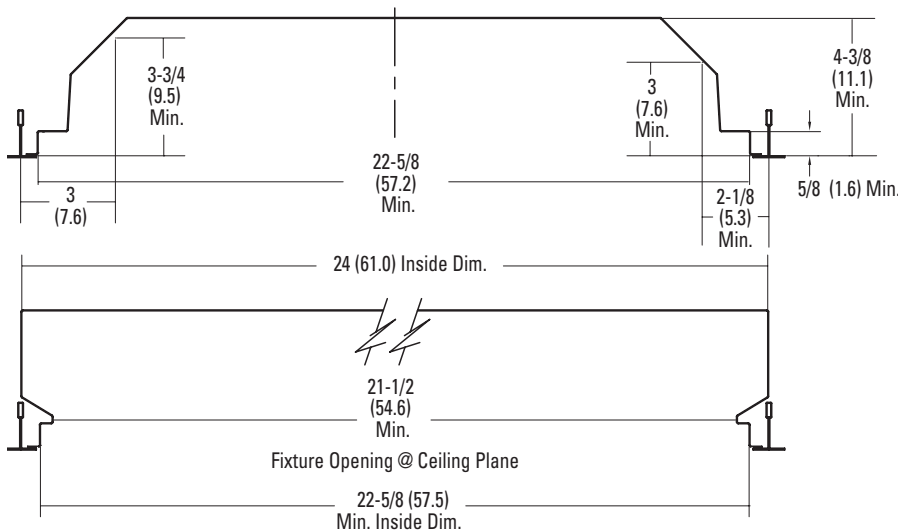
System	Light level	Input watts	Watts/SF	Watts saved	% Savings	\$ Savings per year	LER
Parabolic, (2) 2700 lumen U 32W T8 lamps, .88 ballast factor	47	59	0.92	Base	Base	Base	51.5
2RT5R, 14T5, (2) 1200 lumen 14W T5 lamps, 1.22 ballast factor	39	39	0.61	20	34%	\$6.40	63.7

Light level in footcandles is calculated based on 8x8 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

The RT5™ relight assembly (RT5R) was engineered to upgrade parabolic fixtures from all major manufacturers conforming to the following dimensions:



Dimensions are inches (centimeters).

Relight assemblies also will upgrade many existing "deep" lensed troffers conforming to these dimensions.

Relight assemblies will not upgrade "contractor-grade" lensed troffers or lensed troffers previously upgraded with parabolic renovator kits.

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