

FEATURES & SPECIFICATIONS

INTENDED USE

RT5 is designed for applications that require the extremely energy efficient delivery of comfortable volumetric light from a lay-in fixture that is appealing and shallow in depth. Ideal for offices, schools, hospitals, retail and numerous other commercial applications.

OPTICAL SYSTEM

Delivers volumetric lighting by filling the entire volume of space with light, delivering the ideal amount to walls, cubicles, work surfaces and people.

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

Regressed, two-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 luminance ratio between the fixture and the ceiling.

Mechanical cut-off across the reflector and fresnel refraction along the refractor provide high angle shielding and a quiet ceiling.

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

CONSTRUCTION

Impact modified acrylic prismatic refractor with polymer light-diffusing film.

Rugged, one-piece, cold-rolled steel reflector with embossed facets. Polyester powder paint after fabrication.

Rigid structure with ballast box and endplates with integral T-bar clips.

Fixtures may be mounted end-to-end.

ELECTRICAL SYSTEM

Highly efficient program-start electronic ballasts, Class P, thermally protected, resetting, HPF, non-PCB, UL Listed, CSA Certified, sound rated A. Premium T5 lamp with enhanced phosphors and 85 CRI. Ballast/lamp efficacy up to 100+ LPW. Lamp is TCLP compliant.

0.95 ballast factor standard for typical applications. 1.15 ballast factor or F54T5HO lamping available for higher ceiling height applications.

Bi-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

S5 option available for use with SIMPLY5™ Lighting Intelligence system with multi-level dimming. See SYNERGY® Lighting Controls specification sheets for more information.

MAINTENANCE

Side mounted ballast tray accessed by removing adjacent ceiling tile. Ballast tray may be removed from fixture during service.

Lamps accessed by squeezing refractor to release from retention tabs.

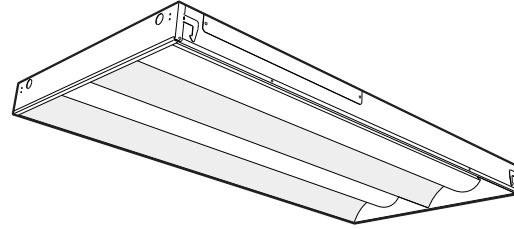
LISTING

UL Listed (standard). Optional: Canada CSA or cUL. Mexico NOM.

Catalog Number	
Notes	Type



2RT5



2' x 4'
2 Lamps
Premier T5

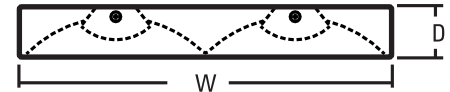
SIMPLY5™
LIGHTING INTELLIGENCE

Specifications

Length: 48 (1218)

Width: 24 (610)

Depth: 3-1/8 (79)



All dimensions are inches (millimeters) unless otherwise specified.

WARRANTY

Fixture guaranteed for one year against mechanical defects in manufacture. Lamp and ballast system warranty (24 months for lamp, 60 months for ballast) by lamp and ballast manufacturer.

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 patent pending.

Specifications subject to change without notice.

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: 2RT5 28T5 MVOLT GEB95 LPM835P

2RT5

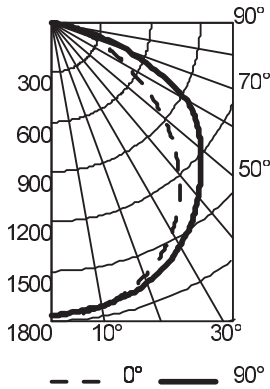
Series	Lamp type	Voltage	Ballast	Lamp ⁴	Options
2RT5 Recessed T5	28T5 28W T5 (46") 54T5HO 54W T5 (46") ¹	MVOLT ² 347 ³	GEB95 0.95 ballast factor GEB95S 0.95 ballast factor, step dimming	LPM835P Premier 3500°K 28W lamp	GLR Internal fast-blow fuse ⁵
			GEB115 1.15 ballast factor	LPM830P Premier 3000°K 28W lamp	PWS1836 6' prewire, 3/8" diameter, 18-gauge, 3-wire (n/a with GEB95S) ⁶
			GEB115S 1.15 ballast factor, step dimming	LPM841P Premier 4100°K 28W lamp	PWS1846 6' prewire, 3/8" diameter, 18-gauge, 4-wire ⁷
			GEB10PS 1.0 ballast factor, program start	LP835 3500°K 54W lamp	EL14 Emergency battery pack⁸
			S5 0.95 ballast factor SIMPLY5 system ⁴	LP830 3000°K 54W lamp	EL65 Emergency battery pack ⁸
			S5115 1.15 ballast factor SIMPLY5 system ⁴	LP841 4100°K 54W lamp	HW Hardwire for S5 system; replaces RELOC [®]
			GEB10PS 1.0 ballast factor, program start ¹		CSA Listed and labeled to comply with Canadian standards
			GEB80 .80 ballast factor ¹		QFC_ Quick-flex cable ⁹
			GEB80S .80 ballast factor, step dimming ¹		BDP Ballast disconnect plug (meets codes that require in-fixture disconnect)

NOTES:

- For T5HO applications, use GEB10PS, GEB80 or GEB80S ballast.
- MVOLT (120-277 volts), 50-60HZ.
- For 347V, use GEB95S or GEB10PS.
- SIMPLY5 includes 13' S5 SSC RELOC[®] wiring system, specify voltage unless HW (hardwire) or PWS is ordered.
- Must specify voltage, 120 or 277.
- For use with standard ballast.
- For use with step dimming ballast.
- See PS1400QD spec sheet for EL lumen output information.
- Required. All fixtures shipped with lamps installed.

2RT5 Volumetric Recessed Lighting 2' x 4'

2RT5 28T5 GEB95 LPM835P, (2) FP28/835/PM/ECO lamps, 2730 lumens per lamp, s/m 1.2 (along) 1.3 (across), test no. LTL13260



CP Summary		
	0°	90°
0°	1770	1770
5°	1766	1750
15°	1695	1707
25°	1555	1623
35°	1339	1473
45°	1044	1280
55°	695	1071
65°	393	715
75°	179	257
85°	30	21
90°	0	0

Coefficients of Utilization										
pc	pf	80%			70%			50%		
		70%	50%	30%	50%	30%	10%	50%	30%	10%
0	107	107	107	105	105	105	100	100	100	
1	98	94	91	92	89	86	88	86	83	
2	89	82	76	81	75	70	77	73	69	
3	82	72	65	71	64	59	68	63	58	
4	75	64	56	63	56	50	61	54	49	
5	69	57	49	56	49	43	54	48	43	
6	63	52	44	51	43	38	49	42	37	
7	59	47	39	46	39	33	45	38	33	
8	55	43	35	42	35	30	41	34	30	
9	51	39	32	39	32	27	38	31	27	
10	48	36	29	36	29	24	35	28	24	

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fix
0° - 30°	1383	25.3	28.
0° - 40°	2264	41.5	46.
0° - 60°	3976	72.8	81.
0° - 90°	4908	89.9	100
90° - 180°	0	0.0	0.0
0° - 180°	4908	89.9	100

Efficiency: 89.9%

LER: 80.4 lpw

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

Ballast	Input Wattage 120/277
GEB95 GEB95S	60/58
GEB95S @50% power mode	28/28
GEB115 GEB115S	73/71
GEB115S @50% power mode	35/35
GEB80 GEB80S	96/93
GEB80S @50% power mode	52/51
S5	60/58

T5/T8 Energy Comparison

System	Lamp Type	Ballast Factor	Input Watts	Watts Saved Compared to T8
3-lamp T8	F32T8	0.88	-	-
2RT5 2-lamp T5	F28T5	0.95	58	30
2RT5 2-lamp T5	F28T5	1.15	71	17