

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. **Certain airborne contaminants can diminish integrity of acrylic.** [Click here for Acrylic Environmental Compatibility table for suitable uses.](#)

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.

OPTICS — 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.

ELECTRICAL — Highly efficient program-start electronic ballasts, Class P, thermally protected, resetting, HPF, non-PCB, UL Listed, CSA Certified, sound rated A. Your choice of Premier or Premier XPT5 lamp with enhanced phosphors and 85 CRI. Ballast/lamp efficacy up to 100+ LPW. Lamp is TCLP compliant.

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

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

Ballast Disconnect provided standard where required to comply with U.S. and Canadian electrical codes.

INSTALLATION — 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.

WARRANTY — 1-year limited warranty. Complete warranty terms located at

www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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.

Catalog Number
Notes
Type



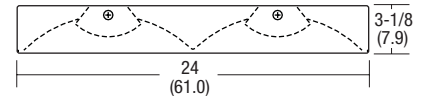
2RT5



2'X 4'
2 Lamps
Premier or Premier XP T5

Specifications

Length:	48 (121.8)
Width:	24 (61.0)
Depth:	3-1/8 (7.9)



All dimensions are inches (centimeters) unless otherwise specified.

Actual performance may differ as a result of end-user environment and application.

Note: Specifications subject to change without notice.

ORDERING INFORMATION

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

Example: 2RT5 28T5 MVOLT GEB95 LPM835P

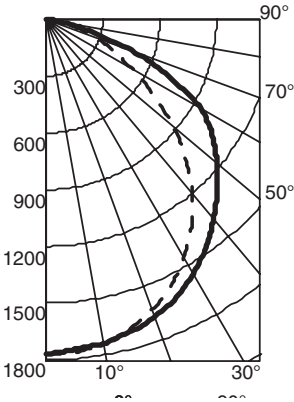
Series	Lamp type	Voltage	Ballast	Lamp ⁶	Options
2RT5 Recessed T5	28T5 28W T5 (46") 54T5HO 54W T5 (46") ¹	MVOLT ² 347 ³	GEB95 .95 ballast factor ⁴ GEB95S .95 ballast factor, step dimming ⁴ GEB115 1.15 ballast factor ⁴ GEB115S 1.15 ballast factor, step dimming ⁴ GEB10PS 1.0 ballast factor, programmed start ⁵ GEB80 .80 ballast factor ⁵ GEB80S .80 ballast factor, step dimming ⁵ GEB90 .90 ballast factor ⁴ GEB90S .90 ballast factor, step dimming ⁴	LPM835P Premier 3500° K lamp ⁴ LPM830P Premier 3000° K lamp ⁴ LPM841P Premier 4100° K lamp ⁴ L835XP Premier XP 3500° K lamp ⁴ L830XP Premier XP 3000° K lamp ⁴ L841XP Premier XP 4100° K lamp ⁴ LP835 3500° K lamp ⁵ LP830 3000° K lamp ⁵ LP841 4100° K lamp ⁵	GLR Internal fast-blow fuse ⁷ PWS1836 6' prewire, 3/8" diameter, 18-gauge, 3-wire (n/a with step dimming) ⁹ PWS1846 6' prewire, 3/8" diameter, 18-gauge, 4-wire ⁹ EL14 Emergency battery pack ¹⁰ EL65 Emergency battery pack ¹⁰ CSA Listed and labeled to comply with Canadian standards

Notes

- For T5HO applications, use GEB10PS, GEB80 or GEB80S ballast. Not available with 28T5.
- MVOLT (120-277 volts), 50-60HZ.
- For 347V, use GEB95, GEB95S or GEB10PS.
- 28T5 only.
- 54T5HO only.
- Required. All fixtures shipped with lamps installed.
- Must specify voltage, 120 or 277.
- For use with standard ballast.
- For use with step dimming ballast.
- See [PS14000D](#) spec sheet for EL lumen output information.

2RT5 Volumetric Recessed Lighting 2' x 4'

2RT5 2RT5 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	Coefficients of Utilization												Zonal Lumen Summary					
	0°		90°		pf	80%			20% 70%			50%			Zone	Lumens	% Lamp	% Fixture
	0°	90°	pw	70%		50%	30%	50%	30%	10%	50%	30%	10%					
0°	1770	1770	0	107	107	107	105	105	105	100	100	100	0° - 30°	1383	25.3	28.2		
5°	1766	1750	1	98	94	91	92	89	86	88	86	83	0° - 40°	2264	41.5	46.1		
15°	1695	1707	2	89	82	76	81	75	70	77	73	69	0° - 60°	3976	72.8	81.0		
25°	1555	1623	3	82	72	65	71	64	59	68	63	58	0° - 90°	4908	89.9	100.0		
35°	1339	1473	4	75	64	56	63	56	50	61	54	49	90° - 180°	0	0.0	0.0		
45°	1044	1280	5	69	57	49	56	49	43	54	48	43	0° - 180°	4908	89.9	100.0		
55°	695	1071	6	63	52	44	51	43	38	49	42	37						
65°	393	715	7	59	47	39	46	39	33	45	38	33						
75°	179	257	8	55	43	35	42	35	30	41	34	30						
85°	30	21	9	51	39	32	39	32	27	38	31	27						
90°	0	0	10	48	36	29	36	29	24	35	28	24						

LER: 80.4 lpw

Efficiency: 89.9%

*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.

Input Wattage		
Ballast	120V	277V
GEB90 GEB95S	55	54
GEB90S @50% power mode	27	27
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

T5/T8 Energy Comparison				
System	Lamp type	Ballast factor	Input watts	Watts saved compared to T8
3-lamp T8	F32T8	0.88	88	-
2RT5 2-lamp T5	F28T5XP	0.90	54	34
2RT5 2-lamp T5	F28T5	0.95	58	30
2RT5 2-lamp T5	F28T5	1.15	71	17