

FEATURES & SPECIFICATIONS

INTENDED USE — 2RT5 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.](#)

OPTICAL SYSTEM — Delivers volumetric lighting by filling the entire volume of space with light, delivering the ideal amount of light 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 with coated polyester powder paint after fabrication.

Rigid structure with ballast box and endplates. End plates feature 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.

F14T5 uses GEB115, producing 1.22 ballast factor standard for typical applications. F24T5HO 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.

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.

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.

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

NOTE: Specifications subject to change without notice.

Catalog Number
Notes
Type



2RT5

2'X 2'
2 Lamps
T5

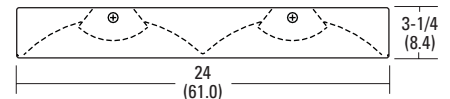


Specifications

Length: 24 (61.0)

Width: 24 (61.0)

Depth: 3-1/8 (7.9)



All dimensions are inches (centimeters) unless otherwise specified.

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

Example: 2RT5 14T5 MVOLT GEB115 LP835

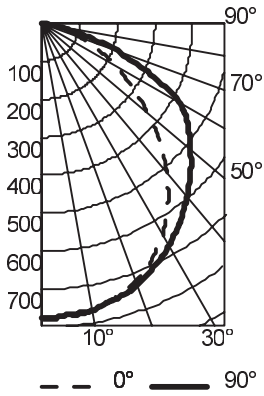
Series	Lamp type	Voltage	Ballast	Lamp ⁴	Options
2RT5 Recessed T5	14T5 14W T5 (22") 24T5HO 24T5HO T5 (22") ¹	MVOLT ² 347 ³	GEB115 1.15 ballast factor GEB115S 1.15 ballast factor, step dimming GEB10PS 1.0 ballast factor, programmed start ¹	LP835 3500° K LP830 3000° K LP841 4100° K	GLR Internal fast-blow fuse ⁵ PWS1836 6' prewire, 3/8" diameter, 18-gauge, 3-wire (n/a with GEB115S) ⁶ PWS1846 6' prewire, 3/8" diameter, 18-gauge, 4-wire ⁷ EL14 Emergency battery pack ⁸ CSA Listed and labeled to comply with Canadian standards QFC_ Quick-flex cable ⁵

Notes

- For T5HO use GEB10PS only.
- MVOLT (120-277 volts), 50-60HZ.
- For 347V use GEB10PS ballast 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 PS1400QD spec sheet for EL lumen output information.

2RT5 Volumetric Recessed Lighting 2' x 2'

2RT5 14T5 GEB115, (2) FP24/841 lamps, 1220 lumens per lamp, s/m 1.2 (along) 1.3 (across), test no. LTL14130



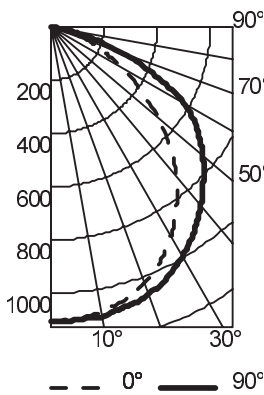
CP Summary			Coefficients of Utilization									
	0°	90°	pf	20%						50%		
			pc	80%			70%			50%		
			pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0°	776	776	0	103	103	103	101	101	101	96	96	96
5°	778	770	1	95	91	87	89	86	83	85	83	80
15°	749	751	2	86	79	74	78	73	68	75	70	66
25°	688	707	3	79	70	63	68	62	57	66	60	56
35°	583	638	4	72	62	54	61	54	48	59	53	48
45°	443	557	5	66	55	48	54	47	42	53	46	41
55°	293	473	6	61	50	42	49	42	37	47	41	36
65°	167	319	7	57	45	38	44	37	32	43	37	32
75°	73	114	8	53	41	34	41	34	29	40	33	29
85°	11	9	9	49	38	31	37	31	26	36	30	26
90°	0	0	10	46	35	28	34	28	24	34	28	23

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fix
0° - 30°	603	24.7	28.
0° - 40°	983	40.3	46.
0° - 60°	1716	70.3	81.
0° - 90°	2113	86.6	100
90° - 180°	0	0.0	0.0
0° - 180°	2113	86.6	100

Efficiency: 86.6%

LER: 66.1 lpw

2RT5 24T5H0 GEB10PS LP835, (2) FP24/835 lamps, 1760 lumens per lamp, s/m 1.2 (along) 1.3 (across), test no. LTL12606



CP Summary			Coefficients of Utilization									
	0°	90°	pf	20%						50%		
			pc	80%			70%			50%		
			pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0°	1104	1104	0	102	102	102	100	100	100	96	96	96
5°	1098	1103	1	94	90	87	88	85	82	85	82	80
15°	1063	1088	2	86	79	73	77	72	68	74	70	66
25°	973	1037	3	78	70	63	68	62	57	66	60	56
35°	826	939	4	72	62	54	61	54	48	58	53	48
45°	634	812	5	66	55	48	54	47	42	52	46	41
55°	413	673	6	61	50	42	49	42	37	47	41	36
65°	226	435	7	57	45	38	44	37	32	43	37	32
75°	97	147	8	53	41	34	41	34	29	39	33	29
85°	13	14	9	49	38	31	37	31	26	36	30	26
90°	0	0	10	46	35	28	34	28	24	34	28	23

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fix
0° - 30°	871	24.7	28.
0° - 40°	1424	40.4	47.
0° - 60°	2484	70.6	82.
0° - 90°	3028	86.0	100
90° - 180°	0	0.0	0.0
0° - 180°	3028	86.0	100

Efficiency: 86.0%

LER: 56.0 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.

Input Wattage			
Wattage	Ballast	120V	277V
24T5H0	GEB10P	55	54
14T5	GEB115S	39	39
14T5 (50% step dimming)	GEB115S	22	22

T5/T8 Energy Comparison				
System	Lamp type	Ballast factor	Input watts	Watts saved compared to T8
2-lamp T8	F32T8U	0.88	58	-
2RT5 2-lamp T5	F14T5	1.22	39	19