

FEATURES & SPECIFICATIONS

INTENDED USE

2RT5X (surface mount) is designed for applications that require the extremely energy-efficient delivery of comfortable volumetric light from a surface mount fixture that is appealing and shallow in depth. Ideal for stairwells, corridors, areas that utilize a non-grid ceiling system or applications that requires surface mounted volumetric lighting.

Suitable for stem or cable mounting. Consult factory.

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 to deliver 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 refracton 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 center reflector is hinged to fixture housing and held in position with three captive screws. This allows for room side access to ballast and wiring compartment. Cold rolled steel reflectors are embossed with linear facets and polyester powder painted after fabrication.

Welded steel housing. Housing backplate has knockout and hole patterns for surface, stem and cable mounting.

Fixtures may be mounted end-to-end.

ELECTRICAL SYSTEM

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

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

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

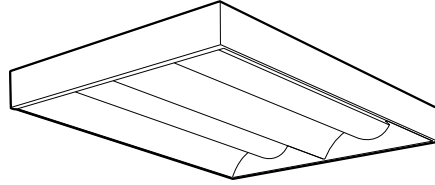
S5 option available for use with SIMPLY5™ Lighting Intelligence system with multi-level dimming. See SYNERGY® Control Systems specification sheets for more information.

MAINTENANCE

Lamps accessed by squeezing refractor to release from retention tabs.

Hinged center reflector swings down for hands-free room side access to ballast and wiring compartment.

Catalog Number	
Notes	Type



2RT5X

Surface Mount 2' x 2'
2 Lamps
T5

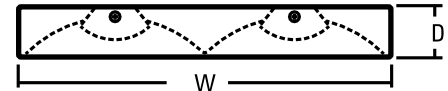
SIMPLY5™
LIGHTING INTELLIGENCE

Specifications

Length: 24 (610)

Width: 24 (610)

Depth: 3-5/8 (92)



All dimensions are inches (millimeters) unless otherwise specified.

LISTING

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

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: 2RT5X 14T5 MVOLT GEB115 LP835

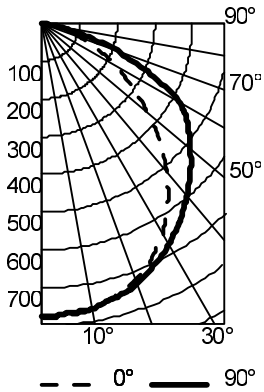
2RT5X			Ballast		Lamp ⁵		Options	
Series	Lamp type	Voltage						
2RT5X Surface mounted recessed T5	14T5	MVOLT ² 347 ³	GEB115	1.15 ballast factor	LP835	3500°K lamp	GLR	Internal fast-blow fuse ⁶
	14W T5 (22")		GEB115S	1.15 ballast factor, step dimming	LP830	3000°K lamp	EL14	Emergency battery pack ⁷
	24T5HO	S5	GEB10PS	1.0 ballast factor, program start	LP841	4100°K lamp	HW	Hardwire for SIMPLY5 system; replaces RELOC®
	24W T5 (22") ¹			0.95 ballast factor SIMPLY5 system ⁴			CSA	Listed and labeled to comply with Canadian standards
							BDP	Ballast disconnect plug (meets codes that require in-fixture disconnect)

NOTES:

- For T5HO use GEB10PS only.
- MVOLT (120-277 volts), 50-60HZ.
- For 347V use GEB95S or GEB10PS ballast only.
- SIMPLY5 available with HW (hardwire) only.
- Required. All fixtures shipped with lamps installed.
- Must specify voltage, 120 or 277.
- See PS1400QD spec sheet for EL lumen output information.

2RT5X Volumetric Lighting 2' x 2' Surface Mount

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

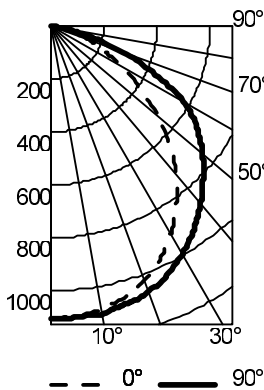


CP Summary		Coefficients of Utilization									Zonal Lumen Summary						
	0°	90°	pf	80%			20%			50%			Zone	Lumens	% Lamp	% Fix	
			pc	70%	50%	30%	50%	30%	10%	50%	30%	10%					
	0°	776	776	0	103	103	103	101	101	101	96	96	96	0° - 30°	603	24.7	28.
	5°	778	770	1	95	91	87	89	86	83	85	83	80	0° - 40°	983	40.3	46.
	15°	749	751	2	86	79	74	78	73	68	75	70	66	0° - 60°	1716	70.3	81.
	25°	688	707	3	79	70	63	68	62	57	66	60	56	0° - 90°	2113	86.6	100
	35°	583	638	4	72	62	54	61	54	48	59	53	48	90° - 180°	0	0.0	0.0
	45°	443	557	5	66	55	48	54	47	42	53	46	41	0° - 180°	2113	86.6	100
	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				

Efficiency: 86.6%

LER: 66.1 lpw

2RT5 24T5HO 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									Zonal Lumen Summary						
	0°	90°	pf	80%			20%			50%			Zone	Lumens	% Lamp	% Fix	
			pc	70%	50%	30%	50%	30%	10%	50%	30%	10%					
	0°	1104	1104	0	102	102	102	100	100	100	96	96	96	0° - 30°	871	24.7	28.
	5°	1098	1103	1	94	90	87	88	85	82	85	82	80	0° - 40°	1424	40.4	47.
	15°	1063	1088	2	86	79	73	77	72	68	74	70	66	0° - 60°	2484	70.6	82.
	25°	973	1037	3	78	70	63	68	62	57	66	60	56	0° - 90°	3028	86.0	100
	35°	826	939	4	72	62	54	61	54	48	58	53	48	90° - 180°	0	0.0	0.0
	45°	634	812	5	66	55	48	54	47	42	52	46	41	0° - 180°	3028	86.0	100
	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				

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
24T5HO	GEB10PS	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

Mounting options:

For stem mounting, use four 1/2" stems in four 11/16" diameter holes, marked "E". See "swivel stem hanger" on page 117 of PSG9.

For surface mounting, use 1/4" diameter holes, marked "A", to secure fixture to structurally secure surface.

