

FEATURES & SPECIFICATIONS

INTENDED USE — RT8S 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 and where room-side ballast access is required. Ideal for offices, schools, hospitals 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, providing the ideal amount to walls, cubicles, work surfaces and people.

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

98% reflective Alanod MIRO® silver optical assembly efficiently redirects lamp output to the refractor.

Regressed 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 — Rugged, steel reflectors with embossed facets. Painted after fabrication. Door frame hinges from either side. Fixtures may be mounted end-to-end.

ELECTRICAL SYSTEM — Standard or high-efficiency, CEE premium, instant-start, ≤ 10% THD, universal voltage and sound rated A are available as quick-ship items.

Optional program-start and step-dimming ballasts available.

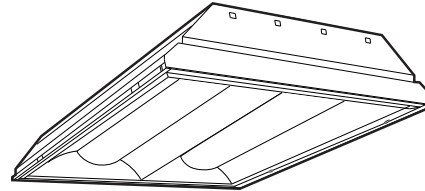
MAINTENANCE — Lamps accessed by unlatching trim and allowing it to hinge open for easy maintenance. Ballast is accessed from below by removing channel cover.

LISTING — UL Listed to U.S. and Canadian standards.

Catalog Number	
Notes	Type



2RT8S



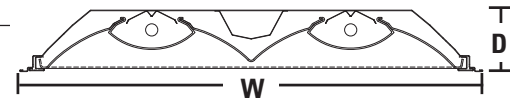
2'x2'
2 Lamps T8

Specifications

Length: 24 (609)

Width: 24 (610)

Depth: 3-3/16 (81)



All dimensions are inches (millimeters) unless otherwise specified.

WARRANTY — Fixture guaranteed for one year against mechanical defects in manufacture.

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.

NOTE: Specifications subject to change without notice.

ORDERING INFORMATION

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

Example: 2RT8S 2 17 MVOLT BIHP L835HT8

2RT8S	2	17				
Series 2RT8S	Number of lamps 2	Voltage 347 MVOLT ¹	Ballast	Lamp ³	Options	
Trim type (blank) Lay-in grid F Overlapping flanged		Wattage 17 17W T8 (24")	BIHP IS, high efficiency, .78 bf (low)² BINP IS, high efficiency, .88 bf (normal)² GEB10IS IS, .88 ballast factor BSNP PS, step-dimming, high efficiency, .88 bf (normal) ^{2,3}	L835HT8 3100 lumen, long life, 3500°K LP735 2800 lumen, 3500°K	GLR Fast-blow fuse ⁴ EL Emergency battery pack (nominal 300 lumens) EL14 Emergency battery pack (nominal 1200 lumens) PWS1836 6' prewire, 3/8" diameter, 18-gauge, 3-wires ⁵ PWS1846 6' prewire, 3/8" diameter, 18-gauge, 4-wires ⁶ QFC_ Quick-flex fixture cable, factory installed prewired cable (RELOC®) ⁴	

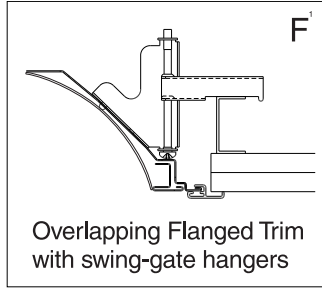
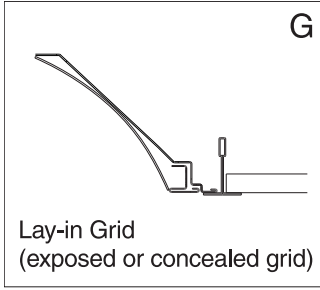
NOTES:

- 1 MVOLT standard for 120V-277V applications.
- 2 NEMA premium ballast to qualify for many utility rebates.
- 3 Not available with 347 volt.
- 4 Must specify voltage, 120 or 277.
- 5 For use with standard ballast.
- 6 For use with step-dimming ballast.

2RT8S Volumetric Recessed Lighting 2' x 2'

MOUNTING DATA

Continuous row mounting of flanged units requires CRE and CRM trim options (see Options).



T8 Energy Comparison

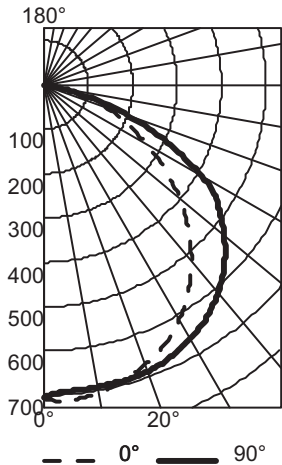
System	Lamp Type	Ballast Factor	Input Watts	Watts Saved Compared to 2-lamp T8
2RT8S 2-lamp BINP T8	F17T8	0.88	31	28

NOTES:

- 1 Recommended rough-in dimensions for F-trim fixtures 24"x24" (Tolerance is +1/4"-0").
Swing-gate range 1-3/16" to 3-15/16". Swing-gate span 23-3/8" to 26-11/16". Fixture swing-gate points require additional 1-1/16" over nominal fixture height.

PHOTOMETRICS

2RT8S 217, (2) F0=17 lamps, 1400 lumens per lamp, s/m 1.3 (along) 1.4 (across), test no. LTL18501



CP Summary	Coefficients of Utilization									Zonal Lumen Summary						
	0° 90°		pw	80%			70%			50%			Zone	Lumens	% Lamp	% Fixture
	0°	90°		70%	50%	30%	50%	30%	10%	50%	30%	10%				
0°	705	705	0	96	96	96	94	94	94	90	90	90	0° - 30°	567	21.4	26.5
5°	713	693	1	88	84	81	82	79	77	79	77	74	0° - 40°	945	35.7	44.2
15°	690	691	2	80	73	68	72	67	63	69	65	61	0° - 60°	1718	64.8	80.4
25°	645	677	3	73	64	58	63	57	52	61	56	51	0° - 90°	2137	80.6	100.0
35°	567	640	4	67	57	50	56	49	44	54	48	44	90° - 180°	0	0.0	0.0
45°	461	575	5	61	51	43	50	43	38	48	42	37	0° - 180°	2137	80.6	100.0
55°	334	481	6	56	46	38	45	38	33	43	37	33				
65°	207	307	7	52	41	34	41	34	29	39	33	29				
75°	97	99	8	49	38	31	37	30	26	36	30	26				
85°	16	9	9	45	34	28	34	28	23	33	27	23				
90°	0	0	10	42	32	25	31	25	21	30	25	21				

Efficiency: 80.6%

*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.