

## 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.](#)

**CONSTRUCTION** — Rugged, steel reflectors with embossed facets. Painted after fabrication. Door frame hinges from either side.

Fixtures may be mounted end-to-end.

**OPTICS** — 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.

**ELECTRICAL** — 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.

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

**LISTINGS** — UL Listed to US and Canadian standards.

**WARRANTY** — 1-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Termsandconditions.aspx](http://www.acuitybrands.com/CustomerResources/Termsandconditions.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



# 2RT8S



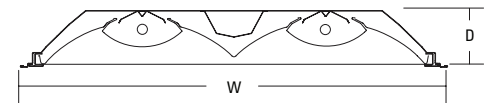
2 X 2  
2 Lamps  
T8

### Specifications

Length: 24 (61.0)

Width: 24 (61.0)

Depth: 3-1/4 (8.1)



All dimensions are inches (centimeters) unless otherwise specified.

### ORDERING INFORMATION

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

**Example:** 2RT8S 2 17 MVOLT BILP L835HT8

Series	Trim type	Number of lamps	Wattage	Voltage	Ballast	Lamp	Options
<b>2RT8S</b>	<b>(blank)</b> Lay-in grid F Overlapping flanged	<b>2</b>	<b>17</b> 17W T8 (24")	<b>MVOLT<sup>1</sup></b> 347	<b>BILP</b> IS, high efficiency, .78 bf (low) <sup>2</sup> <b>BINP</b> IS, high efficiency, .88 bf (normal) <sup>2</sup> <b>GEB10IS</b> IS, .88 ballast factor <b>BSNP</b> PS, step-dimming, high efficiency, .88 bf (normal) <sup>2,3</sup>	<b>L835HT8</b> 1400 lumen long life, 3500 K	GLR Fast-blow fuse <sup>4</sup> <b>EL</b> Emergency battery pack (nominal 300 lumens) EL14 Emergency battery pack (nominal 1200 lumens) <sup>5</sup> PWS1836 6' prewire, 3/8" diameter, 18 gauge, 3-wires <sup>6</sup> PWS1846 6' prewire, 3/8" diameter, 18 gauge, 4-wires <sup>7</sup> QFC_ Quick-flex fixture cable, factory installed prewired cable (RELOC <sup>®</sup> ) <sup>4</sup>

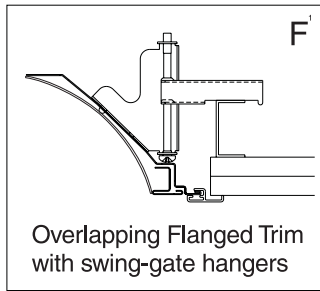
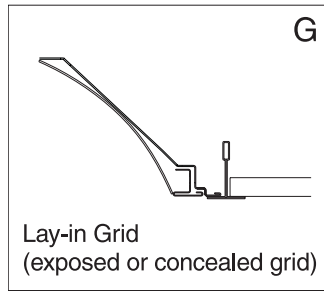
### Notes

- MVOLT standard for 120V-277V applications.
- NEMA premium ballast to qualify for many utility rebates.
- Not available with 347 volt.
- Must specify voltage, 120 or 277.
- Increases fixture depth.
- For use with standard ballast.
- 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).



### NOTES:

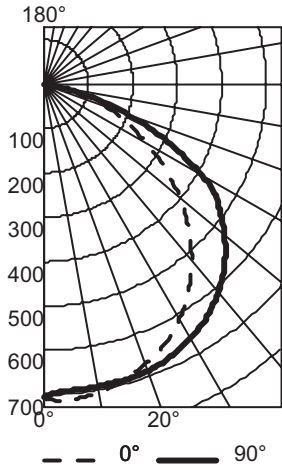
- 1 Recommended rough-in dimensions for F-trim fixtures 24"x24" (Tolerance is +1/4"-0"). Swing-gate range 1-3/16" to 3-15/16". Swing-gate span 23-3/8" to 26-11/16". Fixture swing-gate points require additional 1-1/16" over nominal fixture height.

### T8 Energy Comparison

System	Lamp Type	Ballast Factor	Input Watts	Watts Saved Compared to 2-lamp T8
2RT8B 2-lamp BINP T8	F17T8	0.88	31	28

## PHOTOMETRICS

2RT8B 217, (2) F0=17 lamps, 1400 lumens per lamp, s/m 1.3 (along) 1.4 (across), test no. LTL18501



### CP Summary

	0°	90°
0°	705	705
5°	713	693
15°	690	691
25°	645	677
35°	567	640
45°	461	575
55°	334	481
65°	207	307
75°	97	99
85°	16	9
90°	0	0

### Coefficients of Utilization

RCP	pf	20%									
		80%			70%			50%			
	pc	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	96	96	96	94	94	94	90	90	90	90	90
1	88	84	81	82	79	77	79	77	74	74	74
2	80	73	68	72	67	63	69	65	61	61	61
3	73	64	58	63	57	52	61	56	51	51	51
4	67	57	50	56	49	44	54	48	44	44	44
5	61	51	43	50	43	38	48	42	37	37	37
6	56	46	38	45	38	33	43	37	33	33	33
7	52	41	34	41	34	29	39	33	29	29	29
8	49	38	31	37	30	26	36	30	26	26	26
9	45	34	28	34	28	23	33	27	23	23	23
10	42	32	25	31	25	21	30	25	21	21	21

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	567	21.4	26.5
0° - 40°	945	35.7	44.2
0° - 60°	1718	64.8	80.4
0° - 90°	2137	80.6	100.0
90° - 180°	0	0.0	0.0
0° - 180°	2137	80.6	100.0

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.