

FEATURES & SPECIFICATIONS

INTENDED USE — RT85 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 reflector with embossed facets. Painted after fabrication.

Fixtures may be mounted end-to-end.

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

Optional program-start and step-dimming ballasts available.

Designed and optimized for use with CEE (Consortium for Energy Efficiency) qualified, high-lumen, long life T8 lamps and energy-efficient electronic ballasts.

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.

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.

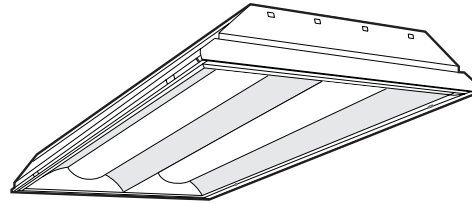
Note: Specifications subject to change without notice.

Catalog Number
Notes
Type



2RT85

2 X 4
2 Lamps T8

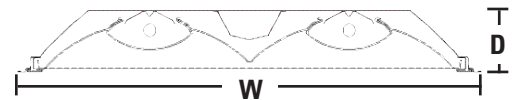


Specifications

Length: 48 (121.8)

Width: 24 (61.0)

Depth: 3-3/16 (8.1)



All dimensions are inches (centimeters) unless otherwise specified.

ORDERING INFORMATION

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

Example: 2RT85 2 32 MVOLT BINP L835HT8

2RT85		2	32				
Series	Trim type	Number of lamps	Wattage	Voltage	Ballast	Lamp	Options
2RT85	(blank) Lay-in grid F Overlapping flanged	2	32 32W T8 (48")	MVOLT ¹ 347	BILP IS, high efficiency, .78 bf (low)² BINP IS, high efficiency, .88 bf (normal)² GEB10IS IS, .88 ballast factor BIHP IS, high efficiency, 120 bf (high) ² 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 (see Life Safety section) EL14 Emergency battery pack (see Life Safety section) 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

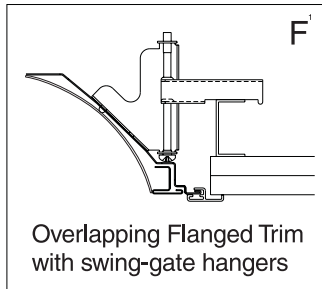
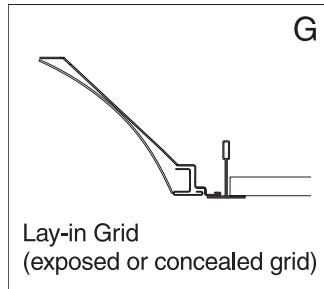
Notes

- MVOLT standard for 120V-277V applications.
- CEE qualified HPT8, NEMA premium ballast to qualify for many utility rebates.
- Not available with 347 volt.
- Must specify voltage, 120 or 277.
- For use with standard ballast.
- For use with step-dimming ballast.

2RT8S Volumetric Recessed Lighting 2' x 4'

MOUNTING DATA

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



NOTES:

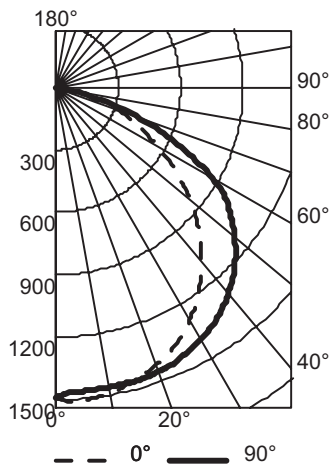
- 1 Recommended rough-in dimensions for F-trim fixtures 24"x48" (Tolerance is +1/4"-0"). Swing-gate range 1-3/16" to 3-15/16". Swing-gate span 23-3/8" to 26-11/16". Fixture swing-gate points require additional 1-1/16" over nominal fixture height.

T8 Energy Comparison

System	Lamp Type	Ballast Factor	Input Watts	Watts Saved Compared to 3 lamp T8
3-lamp T8 Parabolic	F32T8	0.88	85	-
2RT8B 2-lamp BINP T8	F32T8	0.88	55	30
2RT8B 2-lamp BILP T8	F32T8	0.78	48	37

PHOTOMETRICS

2RT8S 2 32, F032 lamps, 2800 lumens per lamp, s/m 1.28 (along) 1.4 (across), test no. LTL18481



CP Summary	Coefficients of Utilization												Zonal Lumen Summary				
	0°		90	pf pc pw	80%			20%			50%			Zone	Lumens	% Lamp	% Fixture
	70%	50%			30%	50%	30%	10%	50%	30%	10%						
0°	1490	1490	0	96	96	96	94	94	94	90	90	90	0° - 30°	1198	21.4	26.5	
5°	1507	1464	1	88	84	81	82	79	77	79	77	74	0° - 40°	1997	35.7	44.2	
15°	1459	1461	2	80	73	68	72	67	63	69	65	61	0° - 60°	3630	64.8	80.4	
25°	1362	1430	3	73	64	58	63	57	52	61	56	51	0° - 90°	4515	80.6	100.0	
35°	1198	1352	4	67	57	50	56	49	44	54	48	44	90° - 180°	0	0.0	0.0	
45°	975	1215	5	61	51	43	50	43	38	48	42	37	0° - 180°	4515	80.6	100.0	
55°	707	1017	6	56	46	38	45	38	33	43	37	33					
65°	438	648	7	52	41	34	41	34	29	39	33	29					
75°	205	208	8	49	38	31	37	30	26	36	30	26					
85°	35	20	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.