

FEATURES & SPECIFICATIONS

INTENDED USE

RT8B 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.

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

Impact modified acrylic prismatic refractor. One-piece, vacuum formed PETE (polyethylene) trim with embossed facets.

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.

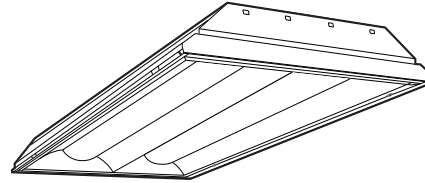
LISTING

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

Catalog Number	
Notes	Type

2RT8B

2' x 4'
2 Lamps T8



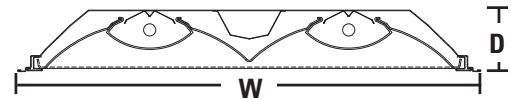
Specifications

Length: 48 (1218)

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. Lamp and ballast system warranty (36 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.

NOTE: Specifications subject to change without notice.

ORDERING INFORMATION

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

Example: 2RT8B 232 MVOLT BINP L835HT8

2RT8B		232		Ballast		Lamp ³		Options	
Series	Trim type	Lamp type	Voltage						
2RT8B	(blank) Lay-in grid F Overlapping flanged	232 2-lamp, 32W T8 (48") Included.	347 MVOLT¹	BILP IS, high efficiency, .78 bf (low)²	IS, high efficiency, .88 bf (normal)²	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)
				BINP IS, high efficiency, .88 bf (normal)²	IS, .88 ballast factor			EL14 Emergency battery pack (see Life Safety section)	
				GEB10IS IS, .88 ballast factor	IS, high efficiency, 1.20 bf (high)²			PWS1836 6' prewire, 3/8" diameter, 18-gauge, 3-wires ⁵	
				BIHP IS, high efficiency, 1.20 bf (high) ²	BSNP PS, step-dimming, high efficiency, .88 bf (normal) ^{2,3}			PWS1846 6' prewire, 3/8" diameter, 18-gauge, 4-wires ⁶	
								QFC_ Quick-flex fixture cable, factory installed prewired cable (RELOC®) ⁴	
								CSA Listed and labled to comply with Canadian standards	
								NOM NOM Certified	

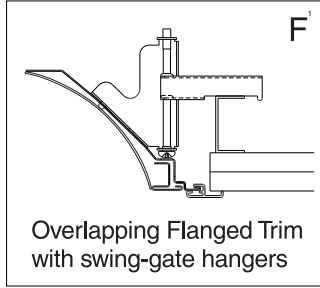
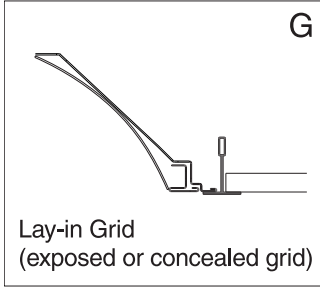
NOTES:

- 1 MVOLT standard for 120V-277V applications.
- 2 CEE qualified HPT8, 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.

2RT8B Volumetric Recessed Lighting 2' x 4'

MOUNTING DATA

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



NOTES:

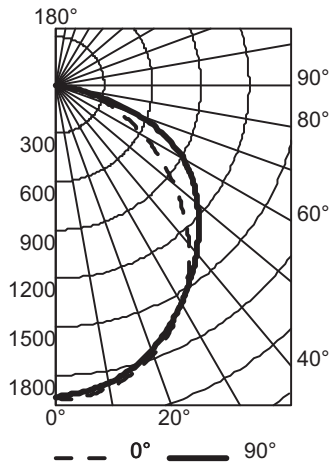
1 Recommended rough-in dimensions for F-trim fixtures 24"x48" (Tolerance is +1/4"-0").
Swing-gate range 1-3/16" to 3-15/16". Swing-gate span 23-3/8" to 26-11/16". Fixture swing-gate points require additional 1-1/16" over nominal fixture height.

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

2RT8B 2 32, (3) F032/835 lamps, 3100 lumens per lamp, s/m 1.2 (along) 1.2 (across), test no. LTL16972



CP Summary	Coefficients of Utilization												Zonal Lumen Summary				
	0°		90	pf	80%			20%			50%			Zone	Lumens	% Lamp	% Fixture
	70%	50%			30%	50%	30%	10%	50%	30%	10%						
0°	1936	1936	0	99	99	99	97	97	97	92	92	92	0° - 30°	1469	23.7	28.5	
5°	1939	1912	1	91	87	84	85	82	79	82	79	77	0° - 40°	2376	38.3	46.1	
15°	1851	1821	2	83	76	70	74	69	65	71	67	63	0° - 60°	4142	66.8	80.3	
25°	1682	1657	3	75	67	60	65	59	54	63	58	53	0° - 90°	5156	83.2	100.0	
35°	1433	1459	4	69	59	52	58	51	46	56	50	45	90° - 180°	0	0.0	0.0	
45°	1123	1254	5	64	53	45	52	45	40	50	44	39	0° - 180°	5156	83.2	100.0	
55°	793	1039	6	59	48	40	47	40	35	45	39	34					
65°	484	754	7	54	43	36	43	36	31	41	35	31					
75°	229	285	8	51	39	32	39	32	28	38	32	27					
85°	48	20	9	47	36	29	36	29	25	35	29	25					
90°	0	0	10	44	33	27	33	27	23	32	26	22					

Efficiency: 83.2%

*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.