# LITHONIA LIGHTING®

## 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. **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** — Impact modified acrylic prismatic refractor. One-piece, vacuumed formed PETE (poly-ethylene) trim with embossed facets.

Fixtures may be mounted end-to-end.

**ELECTRICAL SYSTEM** — High-efficiency, CEE qualified, instant-start, $\leq$ 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.
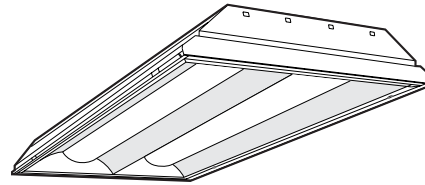
**MAINTENANCE** — Lamps accessed by unlatching trim and allowing it to hinge open for easy maintenance. Ballast is accessed from below by removing channel cover.

**LISTING** — UL Listed (standard). Optional: Canada CSA or cUL. Mexico NOM.
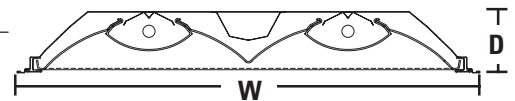
## 2RT8B

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**

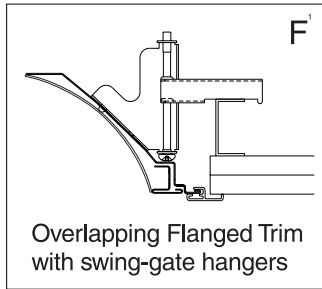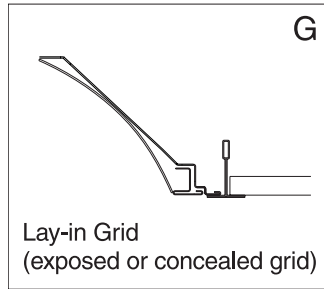| Series | Trim type | Lamp type | Voltage | Ballast | | Lamp[3] | Options | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **2RT8B** | (blank) **Lay-in grid** | **232 2-lamp, 32W T8 (48")** | 347 **MVOLT**[1] | **BILP** | **IS, high efficiency, .78 bf (low)**[2] | **L835HT8 3100 lumen, long life, 3500°K** | GLR | Fast-blow fuse[5] |
| | F Over-lapping flanged | | | **BINP** | **IS, high efficiency, .88 bf (normal)**[2] | | EL | Emergency battery pack (see Life Safety section) |
| | | | | **GEB10IS** | **IS, .88 ballast factor** | LP735 2800 lumen, 3500°K | **EL14** | **Emergency battery pack (see Life Safety section)** |
| | | | | BIHP | IS, high efficiency, 1.20 bf (high)[2] | | PWS1836 | 6' prewire, 3/8" diameter, 18-gauge, 3-wires[6] |
| | | | | BSNP | PS, step-dimming, high efficiency, .88 bf (normal)[2,3] | | PWS1846 | 6' prewire, 3/8" diameter, 18-gauge, 4-wires[7] |
| | | | | S5100 | 1.0 ballast factor, SIMPLY5™ system[4] | | QFC_ | Quick-flex fixture cable, factory installed prewired cable (RELOC®)[5] |
| | | | | | | | HW | Hardwire for SIMPLY5™ system; replaces RELOC wiring |
| | | | | | | | 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 SIMPLY5 system includes 13' S5SSC RELOC wiring system. Specify voltage unless HW (hardwire) or PWS1836 is ordered.
5 Must specify voltage, 120 or 277.
6 For use with standard ballast.
7 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).

| 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 |

G

Lay-in Grid
(exposed or concealed grid)

F[1]

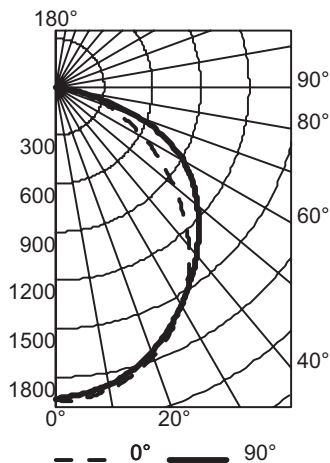Overlapping Flanged Trim
with swing-gate hangers

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.

## PHOTOMETRICS

**2RT8B 2 32**, (3) FO32/835 lamps, 3100 lumens per lamp, s/m 1.2 (along) 1.2 (across), test no. LTL16972

### Coefficients of Utilization

| CP Summary | | | pf | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0° | 90 | pc | 80% | | | 70% | | | 50% | | | |
| | | | pw | 70% | 50% | 30% | 50% | 30% | 10% | 50% | 30% | 10% | |
| 0° | 1936 | 1936 | 0 | 99 | 99 | 99 | 97 | 97 | 97 | 92 | 92 | 92 | |
| 5° | 1939 | 1912 | 1 | 91 | 87 | 84 | 85 | 82 | 79 | 82 | 79 | 77 | |
| 15° | 1851 | 1821 | 2 | 83 | 76 | 70 | 74 | 69 | 65 | 71 | 67 | 63 | |
| 25° | 1682 | 1657 | 3 | 75 | 67 | 60 | 65 | 59 | 54 | 63 | 58 | 53 | |
| 35° | 1433 | 1459 | 4 | 69 | 59 | 52 | 58 | 51 | 46 | 56 | 50 | 45 | |
| 45° | 1123 | 1254 | 5 | 64 | 53 | 45 | 52 | 45 | 40 | 50 | 44 | 39 | |
| 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 | |

(RCR column for pw values 0–10)

### Zonal Lumen Summary

| Zone | Lumens | % Lamp | % Fixture |
|---|---|---|---|
| 0° - 30° | 1469 | 23.7 | 28.5 |
| 0° - 40° | 2376 | 38.3 | 46.1 |
| 0° - 60° | 4142 | 66.8 | 80.3 |
| 0° - 90° | 5156 | 83.2 | 100.0 |
| 90° - 180° | 0 | 0.0 | 0.0 |
| 0° - 180° | 5156 | 83.2 | 100.0 |

Efficiency: 83.2%

- - 0°  —— 90°

*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.

Sheet #: 2RT8B-2x4    ©2009 Acuity Brands Lighting, Inc. All rights reserved. Rev. 11/17/09