



FEATURES & SPECIFICATIONS

INTENDED USE

2RT5 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. Ideal for offices, schools, hospitals, retail and numerous other commercial applications.

OPTICAL SYSTEM

Delivers volumetric lighting by filling the entire volume of space with light, delivering the ideal amount to walls, cubicles, work surfaces and people.

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

Regressed, two-piece 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 with polymer light-diffusing film.

Rugged, one-piece, cold-rolled steel reflector with embossed facets. Polyester powder paint after fabrication.

Rigid structure with ballast box and endplates with integral T-bar clips.

Fixtures may be mounted end-to-end.

ELECTRICAL SYSTEM

Highly efficient program-start electronic ballasts, Class P, thermally protected, resetting, HPF, non-PCB, UL Listed, CSA Certified, sound rated A+. Premium T5 lamp with enhanced phosphors and 85 CRI. Ballast/lamp efficacy up to 100+ LPW. Lamp is TCLP compliant.

0.95 ballast factor standard for typical applications. 1.15 ballast factor available for higher ceiling height applications.

Step-dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

MAINTENANCE

Side mounted ballast tray accessed by removing adjacent ceiling tile. Ballast tray may be removed from fixture during service.

Lamps accessed by squeezing refractor to release from retention tabs.

LISTING

UL listed (standard). C-UL Listed (see Options).

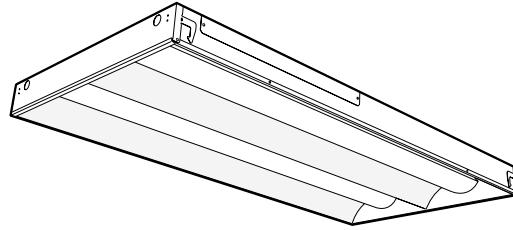
WARRANTY

Fixture guaranteed for one year against mechanical defects in manufacture. Lamp and ballast system warranty (60 months for ballast, 24 months for lamp).

| | |
|----------------|------|
| Catalog Number | |
| Notes | Type |

Volumetric Recessed Lighting

2RT5



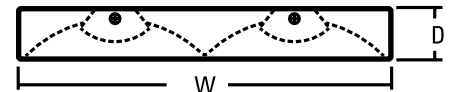
2' x 4'
2 Lamps
Premier T5



PATENT PENDING

Specifications

Length: 48 (1218)
Width: 24 (610)
Depth: 3-1/8 (79)



All dimensions are inches (millimeters). Specifications subject to change without notice.

ORDERING INFORMATION

Example: **2RT5 28T5 MVOLT GEB95 LPM835P**

Note: **Additional configurations and options with extended lead times are available.**
For details, see reverse side of this sheet.

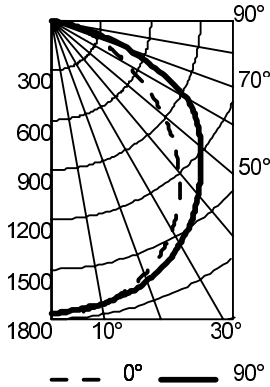
| 2RT5 | | 28T5 | | | | | | | |
|-------------------------|--------------------------|---|---|---|--|--|--|--|--|
| Series | Lamp type ¹ | Voltage | Ballast ¹ | Lamp ⁵ | Options ¹ | | | | |
| 2RT5 Recessed T5 | 28T5 28W T5 (46") | MVOLT² 347 ³ | GEB95 0.95 ballast factor (standard) GEB95S 0.95 ballast factor, step dimming ⁴ | LPM835P Lamped with premier 3500°K lamp (standard) LPM830P Lamped with premier 3000°K lamp LPM841P Lamped with premier 4100°K lamp | GLR Internal fast-blow fuse ⁶ PWS1836 6' prewire, 3/8" diameter, 18-gauge, 3-wire (n/a with GEB95S) ⁷ PWS1846 6' prewire, 3/8" diameter, 18-gauge, 4-wire ⁸ EL14 Emergency battery pack (nominal 1200 lumens). See Life Safety Section. CSA CUL Listed and labeled to comply with Canadian standards. ³ | | | | |

NOTES:

- See reverse side of this sheet for additional choices (extended lead times).
- MVOLT (120-277 volts), 50-60HZ.
- Consult factory for 347V.
- Single-phase, single-circuit 120V or 277V input only.
- Required. All fixtures shipped with lamps installed.
- Must specify voltage, 120 or 277.
- For use with GEB95 ballast.
- For use with GEB95S ballast.

2RT5 Volumetric Recessed Lighting 2' x 4'

2RT5 28T5 GEB95 LPM835P, (2) FP28/835/PM/ECO lamps, 2730 lumens per lamp, s/m 1.2 (along) 1.3 (across), test no. LTL13260



| CP Summary | | | Coefficients of Utilization | | | | | | | | | |
|------------|------|------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 0° | 90° | pf | 80% | | | 70% | | | 50% | | |
| | | | pc | 70% | 50% | 30% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0° | 1770 | 1770 | 0 | 107 | 107 | 107 | 105 | 105 | 105 | 100 | 100 | 100 |
| 5° | 1766 | 1750 | 1 | 98 | 94 | 91 | 92 | 89 | 86 | 88 | 86 | 83 |
| 15° | 1695 | 1707 | 2 | 89 | 82 | 76 | 81 | 75 | 70 | 77 | 73 | 69 |
| 25° | 1555 | 1623 | 3 | 82 | 72 | 65 | 71 | 64 | 59 | 68 | 63 | 58 |
| 35° | 1339 | 1473 | 4 | 75 | 64 | 56 | 63 | 56 | 50 | 61 | 54 | 49 |
| 45° | 1044 | 1280 | 5 | 69 | 57 | 49 | 56 | 49 | 43 | 54 | 48 | 43 |
| 55° | 695 | 1071 | 6 | 63 | 52 | 44 | 51 | 43 | 38 | 49 | 42 | 37 |
| 65° | 393 | 715 | 7 | 59 | 47 | 39 | 46 | 39 | 33 | 45 | 38 | 33 |
| 75° | 179 | 257 | 8 | 55 | 43 | 35 | 42 | 35 | 30 | 41 | 34 | 30 |
| 85° | 30 | 21 | 9 | 51 | 39 | 32 | 39 | 32 | 27 | 38 | 31 | 27 |
| 90° | 0 | 0 | 10 | 48 | 36 | 29 | 36 | 29 | 24 | 35 | 28 | 24 |

| Zonal Lumen Summary | | | |
|---------------------|--------|--------|-------|
| Zone | Lumens | % Lamp | % Fix |
| 0° - 30° | 1383 | 25.3 | 28. |
| 0° - 40° | 2264 | 41.5 | 46. |
| 0° - 60° | 3976 | 72.8 | 81. |
| 0° - 90° | 4908 | 89.9 | 100 |
| 90° - 180° | 0 | 0.0 | 0.0 |
| 0° - 180° | 4908 | 89.9 | 100 |

Efficiency: 89.9%

LER: 80.4 lpw

*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. The reported lumen rating is based upon lamp manufacturer's published lumen output for the cold spot temperature measured during lamp calibration.

Additional Ordering Information

Extended lead time options. Consult factory for further details.

| Cat. Field | Cat. No. | Description | Comments |
|------------|---------------------|--|---|
| Lamp Type | 54T5HO ¹ | 54W T5HO lamps | (2) lamps |
| Ballast | GEB115 | 1.15 ballast factor | (2) 28 T5 lamps only |
| Ballast | GEB115S | 1.15 ballast factor, step-dimming | (2) 28 T5 lamps only |
| Ballast | GEB10PS | 1.0 ballast factor "program start" | (2) 54T5HO lamps only |
| Ballast | GEB80 | 0.80 ballast factor | (2) 54T5HO lamps only |
| Ballast | GEB80S | 0.80 ballast factor, step-dimming | (2) 54T5HO lamps only |
| Options | GMF ² | Internal "slow-blow" fuse | Slower acting than GLR. Tolerates greater start-up electrical overloads |
| Options | QFC__ ² | Quick-Flex fixture cable | Factory installed, prewired cable (Reloc) |
| Options | EL6 | Emergency battery pack (Nominal xxx-xxxx lumens) | Factory installed, emergency lighting. See Life Safety Section. |
| Options | JP18 | Job pack qty 18 without individual cartons | Recommended for large projects |

| Ballast | Input Wattage |
|-----------------|----------------|
| | 120/277 |
| GEB95 | |
| GEB95S | 60/58 |
| GEB95S | |
| @50% power mode | 28/28 |
| GEB115 | |
| GEB115S | 73/71 |
| GEB115S | |
| @50% power mode | 35/35 |
| GEB80 | |
| GEB80S | 96/93 |
| GEB80S | |
| @50% power mode | 52/51 |

NOTES:
 1 For T5HO applications, use GEB10PS ballast option for typical high light level applications and GEB80 or GEB80S ballast options for less light level applications.
 2 Must specify voltage, 120 or 277.

T5/T8 Energy Comparison

| System | Lamp Type | Ballast Factor | Input Watts | Watts Saved Compared to T8 |
|----------------|-----------|----------------|-------------|----------------------------|
| 3-lamp T8 | F32T8 | 0.88 | 88 | — |
| 2RT5 2-lamp T5 | F28T5 | 0.95 | 58 | 30 |
| 2RT5 2-lamp T5 | F28T5 | 1.15 | 71 | 17 |