

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

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The 2GTL\_R LED Relight assembly is the ideal solution for renovating existing fluorescent lensed troffers, delivering improved quality of light and refreshing the space. 2GTLR delivers high efficiency and energy savings vs. existing fluorescent systems. The 2GTL\_R Relight assembly is recommended for offices, restaurants, schools, hospitals, and other general lighting applications where existing 2x2 or 2x4 lensed troffers are currently in use.

**CONSTRUCTION** — Universal end brackets/driver assembly are constructed of aluminum for optimal thermal performance and are secured to the host fixture with provided tek screws. End brackets are painted white to match existing lensed troffer finish. The LED light engine panel is highly reflective white aluminum with plug-in connection to driver. A steel wiring connection cover is provided for use if required. Standard kit requires use of existing door frame/lens assembly.

**OPTICS** — LED light panel is designed to provide consistent, uniform lighting.

Mounting brackets optimize source-to-aperture distance.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide extended service life. 2GTLR is rated to deliver L90 performance at 60,000 hours. eldoLED driver options deliver choice of dimming range, and choice of control, while assuring flicker-free, low current inrush, 89% efficiency and low EMI. Ballast disconnect is provided for quick installation.

**INSTALLATION** — After existing fluorescent components are removed from housing, universal end brackets with integral driver assembly are fastened in place with provided tek screws. Supply wiring connection is made with plug-in ballast disconnect. The LED panel plugs into the driver assembly and snaps into place between end brackets for consistent source-to-aperture positioning. LED boards include plug-in connectors for easy replacement or servicing. UL Classified as suitable for damp location and air-handling installations.

**LISTINGS** — UL/cUL classified for use in recessed fluorescent light fixtures. Installation per instructions will not impact existing fixture UL listing or air-handling capabilities. Tested to LM80 standards. DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

# 2GTL2R 2GTL4R

2' x 2' and 2' x 4' Relight  
LED Retrofit Assembly



### Specifications

Intended for installation in most existing 2x2 or 2x4 lensed troffers; 1x4 configurations are available



eldoLED®

### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** 2GTL4R 40L LP835

| Series                  | Lumens <sup>1</sup> | Driver   | Voltage                  | Color temperature    | Options  |
|-------------------------|---------------------|--|--------------------------|----------------------|--|
| 2GTL2R 2' x 2' retrofit | 20L 2000 lumens     | (blank) On/off (non-dim)   | (blank) MVOLT (120-277V) | LP835 82 CRI, 3500 K | (blank) Two rows<br>J6 6 pack (2 x 2)<br>J4 4 pack (2 x 4) |
|                         | 30L 3000 lumens     | GTH250 Bi-level (2 switch)<br>EZ1 eldoLED Dims to 1% (0-10 volt dimming) |                          | LP840 82 CRI, 4000 K |  |
| 2GTL4R 2' x 4' retrofit | 30L 3000 lumens     |  |                          |                      |  |
|                         | 40L 4000 lumens     |  |                          |                      |  |
|                         | 48L 4800 lumens     |  |                          |                      |  |
|                         | 60L 6000 lumens     |  |                          |                      |  |
|                         | 72L 7200 lumens     |  |                          |                      |  |

|   |
|---|
| <b>Accessories:</b> Order as separate catalog number. |
| RELIGHT SDT 347/120 347 volt step down transformer    |

### Notes

1 Approximate lumen output.

# 2GTL4R Recessed LED Lighting, 2x4

| Energy Comparison - 2x4 LED vs. T12 & T8 |           |                |             |                          |
|--|-----------|----------------|-------------|--------------------------|
| System                                   | Lamp type | Ballast factor | Input watts | Watts saved by using LED |
| LED - nominal 4000 lm                    | LED       | 1.0            | 39          | ---                      |
| 4-lamp T12                               | F40T12    | 0.88           | 144         | 105                      |
| 4-lamp T8                                | F32T8     | 0.88           | 110         | 71                       |
| 3-lamp T12                               | F40T12    | 0.88           | 108         | 69                       |
| 3-lamp T8                                | F32T8     | 0.88           | 90          | 51                       |
| 2-lamp T12                               | F40T12    | 0.88           | 72          | 33                       |

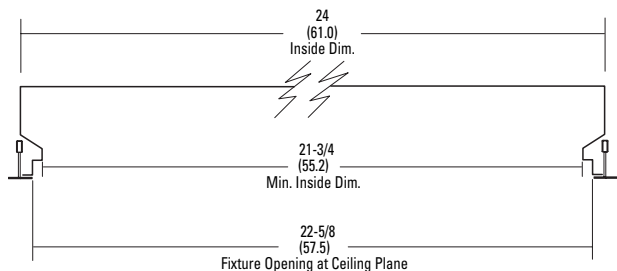
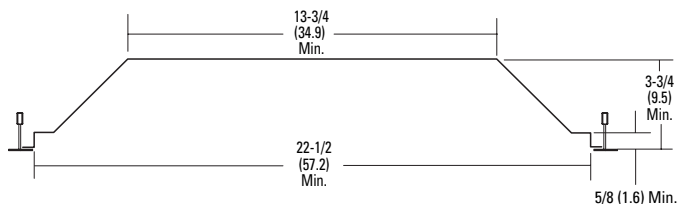
| 2 x 2 Performance Data |        |             |     |
|------------------------|--------|-------------|-----|
| Lumen package          | Lumens | Input watts | LPW |
| 20L LP835              | 1,944  | 19.7        | 99  |
| 20L LP840              | 1,990  | 19.7        | 101 |
| 30L LP835              | 2,541  | 27.8        | 91  |
| 30L LP840              | 2,603  | 27.8        | 94  |

| 2 x 4 Performance Data |        |             |     |
|------------------------|--------|-------------|-----|
| Lumen package          | Lumens | Input watts | LPW |
| 30L LP835              | 2,995  | 25.8        | 116 |
| 30L LP840              | 3,072  | 25.8        | 119 |
| 40L LP835              | 4,278  | 38.6        | 111 |
| 40L LP840              | 4,402  | 38.5        | 114 |
| 48L LP835              | 5,027  | 46.9        | 107 |
| 48L LP840              | 5,143  | 49.7        | 103 |
| 60L LP835              | 5,887  | 52.7        | 112 |
| 60L LP840              | 6,135  | 53.8        | 114 |
| 72L LP835              | 7,320  | 70.5        | 104 |
| 72L LP840              | 7,675  | 70.9        | 102 |

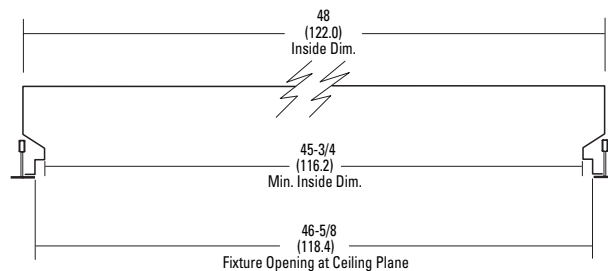
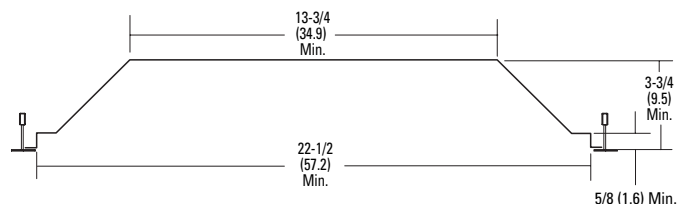
## FIT COMPATIBILITY

The 2GTL\_RT Relight assembly was engineered to upgrade recessed 2X2 or 2X4 lensed troffers from all major manufacturers. Dimensional requirements are below but Lithonia Lighting recommends a trial installation prior to purchasing project quantities.

Relight assemblies are designed to fit most recessed fixtures mounted in T-grid installations.



2' X 2'



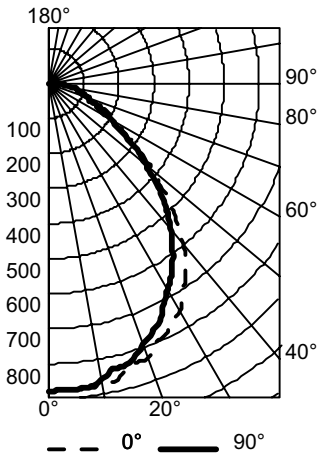
2' X 4'

Dimensions are inches (centimeters) unless otherwise noted.

# 2GTL4R Recessed LED Lighting, 2x4

## PHOTOMETRICS

2GTL2R 20L EZ1 LP835, 1944 delivered lumens, test no. LTL3105P0, tested in accordance to IESNA LM-79



### CP Summary

|     | 0°  | 90  |
|-----|-----|-----|
| 0°  | 878 | 878 |
| 5°  | 877 | 876 |
| 15° | 844 | 833 |
| 25° | 791 | 748 |
| 35° | 680 | 617 |
| 45° | 496 | 459 |
| 55° | 290 | 275 |
| 65° | 168 | 154 |
| 75° | 85  | 85  |
| 85° | 41  | 42  |
| 90  | 1   | 1   |

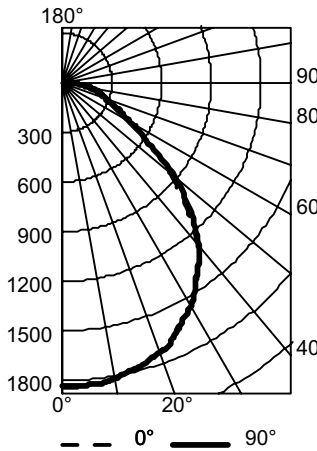
### Coefficients of Utilization

| RCR | pf  | pc  | 20% |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | 80% |     |     | 70% |     |     | 50% |     |     |
|     |     |     | 70% | 50% | 30% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0   | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 111 |     |
| 1   | 110 | 106 | 102 | 103 | 100 | 97  | 99  | 96  | 94  | 94  |     |
| 2   | 101 | 94  | 88  | 92  | 86  | 81  | 88  | 84  | 80  | 80  |     |
| 3   | 93  | 84  | 76  | 82  | 75  | 70  | 79  | 73  | 68  | 68  |     |
| 4   | 86  | 75  | 67  | 74  | 66  | 60  | 71  | 65  | 60  | 60  |     |
| 5   | 80  | 68  | 59  | 67  | 59  | 53  | 65  | 58  | 52  | 52  |     |
| 6   | 74  | 62  | 53  | 61  | 53  | 47  | 59  | 52  | 47  | 47  |     |
| 7   | 69  | 56  | 48  | 55  | 48  | 42  | 54  | 47  | 42  | 42  |     |
| 8   | 64  | 52  | 44  | 51  | 43  | 38  | 50  | 43  | 38  | 38  |     |
| 9   | 60  | 48  | 40  | 47  | 39  | 34  | 46  | 39  | 34  | 34  |     |
| 10  | 57  | 44  | 36  | 43  | 36  | 31  | 43  | 36  | 31  | 31  |     |

### Zonal Lumen Summary

| Zone       | Lumens | % Lamp | % Fixture |
|------------|--------|--------|-----------|
| 0° - 30°   | 672    | 34.5   | 34.5      |
| 0° - 40°   | 1073   | 55.2   | 55.2      |
| 0° - 60°   | 1682   | 86.5   | 86.5      |
| 0° - 90°   | 1944   | 100.0  | 100.0     |
| 90° - 180° | 0      | 0.0    | 0.0       |
| 0° - 180°  | 1944   | 100.0  | 100.0     |

2GTL4R 40L EZ1 LP835, 4278 delivered lumens, test no. LTL3102P0, tested in accordance to IESNA LM-79



### CP Summary

|     | 0°   | 90   |
|-----|------|------|
| 0°  | 1836 | 1836 |
| 5°  | 1834 | 1833 |
| 15° | 1786 | 1781 |
| 25° | 1654 | 1647 |
| 35° | 1420 | 1417 |
| 45° | 1059 | 1102 |
| 55° | 649  | 637  |
| 65° | 388  | 356  |
| 75° | 209  | 227  |
| 85° | 79   | 100  |
| 90  | 5    | 7    |

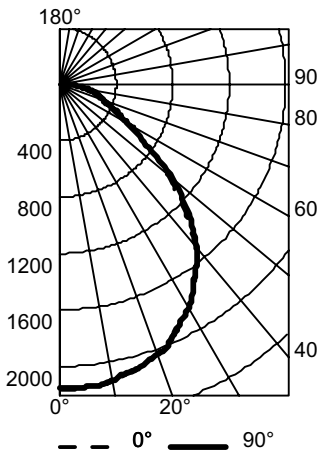
### Coefficients of Utilization

| RCR | pf  | pc  | 20% |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | 80% |     |     | 70% |     |     | 50% |     |     |
|     |     |     | 70% | 50% | 30% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0   | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 111 |     |
| 1   | 110 | 105 | 101 | 103 | 99  | 96  | 99  | 96  | 93  | 93  |     |
| 2   | 101 | 93  | 87  | 91  | 86  | 81  | 88  | 83  | 79  | 79  |     |
| 3   | 93  | 83  | 75  | 81  | 74  | 69  | 79  | 73  | 68  | 68  |     |
| 4   | 85  | 74  | 66  | 73  | 65  | 60  | 71  | 64  | 59  | 59  |     |
| 5   | 79  | 67  | 59  | 66  | 58  | 52  | 64  | 57  | 52  | 52  |     |
| 6   | 73  | 61  | 52  | 60  | 52  | 46  | 58  | 51  | 46  | 46  |     |
| 7   | 68  | 55  | 47  | 55  | 47  | 41  | 53  | 46  | 41  | 41  |     |
| 8   | 64  | 51  | 43  | 50  | 42  | 37  | 49  | 42  | 37  | 37  |     |
| 9   | 60  | 47  | 39  | 46  | 39  | 34  | 45  | 38  | 33  | 33  |     |
| 10  | 56  | 43  | 36  | 43  | 36  | 31  | 42  | 35  | 30  | 30  |     |

### Zonal Lumen Summary

| Zone       | Lumens | % Lamp | % Fixture |
|------------|--------|--------|-----------|
| 0° - 30°   | 1426   | 33.3   | 33.3      |
| 0° - 40°   | 2299   | 53.7   | 53.7      |
| 0° - 60°   | 3661   | 85.6   | 85.6      |
| 0° - 90°   | 4279   | 100.0  | 100.0     |
| 90° - 180° | 0      | 0.0    | 0.0       |
| 0° - 180°  | 4279   | 100.0  | 100.0     |

2GTL4R 48L EZ1 LP835, 5027 delivered lumens, test no. LTL3102P4, tested in accordance to IESNA LM-79



### CP Summary

|     | 0°   | 90   |
|-----|------|------|
| 0°  | 2157 | 2157 |
| 5°  | 2155 | 2154 |
| 15° | 2099 | 2093 |
| 25° | 1944 | 1935 |
| 35° | 1668 | 1665 |
| 45° | 1244 | 1295 |
| 55° | 762  | 748  |
| 65° | 455  | 419  |
| 75° | 246  | 267  |
| 85° | 93   | 117  |
| 90  | 6    | 9    |

### Coefficients of Utilization

| RCR | pf  | pc  | 20% |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | 80% |     |     | 70% |     |     | 50% |     |     |
|     |     |     | 70% | 50% | 30% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0   | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 111 |     |
| 1   | 110 | 105 | 101 | 103 | 99  | 96  | 99  | 96  | 93  | 93  |     |
| 2   | 101 | 93  | 87  | 91  | 86  | 81  | 88  | 83  | 79  | 79  |     |
| 3   | 93  | 83  | 75  | 81  | 74  | 69  | 79  | 73  | 68  | 68  |     |
| 4   | 85  | 74  | 66  | 73  | 65  | 60  | 71  | 64  | 59  | 59  |     |
| 5   | 79  | 67  | 59  | 66  | 58  | 52  | 64  | 57  | 52  | 52  |     |
| 6   | 73  | 61  | 52  | 60  | 52  | 46  | 58  | 51  | 46  | 46  |     |
| 7   | 68  | 55  | 47  | 55  | 47  | 41  | 53  | 46  | 41  | 41  |     |
| 8   | 64  | 51  | 43  | 50  | 42  | 37  | 49  | 42  | 37  | 37  |     |
| 9   | 60  | 47  | 39  | 46  | 39  | 34  | 45  | 38  | 33  | 33  |     |
| 10  | 56  | 43  | 36  | 43  | 36  | 31  | 42  | 35  | 30  | 30  |     |

### Zonal Lumen Summary

| Zone       | Lumens | % Lamp | % Fixture |
|------------|--------|--------|-----------|
| 0° - 30°   | 1676   | 33.3   | 33.3      |
| 0° - 40°   | 2702   | 53.7   | 53.7      |
| 0° - 60°   | 4302   | 85.6   | 85.6      |
| 0° - 90°   | 5028   | 100.0  | 100.0     |
| 90° - 180° | 0      | 0.0    | 0.0       |
| 0° - 180°  | 5028   | 100.0  | 100.0     |