

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The 2GTL LED recessed troffer offers a wide range of lumen packages, color temperatures, and lens options to meet the lighting needs for a wide range of applications such as schools, offices, and hospitals. The light engine delivers long life and excellent color to ensure a sound quality, low-maintenance lighting installation. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

**CONSTRUCTION** — Housing formed from 22 gauge cold-rolled steel. Smooth hemmed sides and smooth inward formed end flanges for safe handling. Includes integral T-bar clips. Lighter-weight fixture allows for safe, easy installation.

**OPTICS** — Highly transmissive pattern #12 lens diffuses the light source without compromising output. Pattern # 19 and satin white lens options also available.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide extended service life. 80% LED lumen maintenance at 72,000 hours (L80/72,000).

elDoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional nLight® embedded controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the GTL luminaires using standard Cat-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

The step-level dimming option (SLD) allows the system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Ballast disconnect is provided where required to comply with U.S. and Canadian codes.

**INSTALLATION** — LED boards include plug-in connectors for easy of upgradeability. Suitable for direct insulation contact. Suitable for damp location.

**LISTINGS** — CSA certified to meet U.S. and Canadian standards. IC rated. 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.

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



GTL Series

# 2GTL

2' x 4'

LED Recessed Troffer

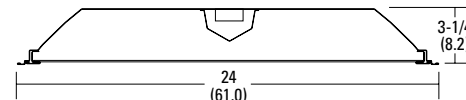


### Specifications

Length: 48 (122.0)

Width: 24 (61.0)

Depth: 3-1/4 (8.2)



All dimensions are inches (centimeters) unless otherwise indicated.

## A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background**\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background**\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

## 2GTL LED Troffer



A+ Capable options indicated by this color background.

### ORDERING INFORMATION

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

**Example:** 2GTL 4 48L GZ10 LP835

| 2GTL                                |                                      |        |                                                                                                                                                                       |                                                                                                                                                                                                                                |                                                                                                                                                            |                                                                           |
|-------------------------------------|--------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Series                              | Trim type                            | Length | Lumens <sup>1</sup>                                                                                                                                                   | Door                                                                                                                                                                                                                           | Lens                                                                                                                                                       | Voltage                                                                   |
| 2GTL 2' wide recessed LED luminaire | (blank) Grid<br>F Overlapping flange | 4 4'   | 30L 3000 lumens<br>40L 4000 lumens<br>48L 4800 lumens<br>60L 6000 lumens<br>72L 7200 lumens<br>88L 8800 lumens<br>100L 10000 lumens<br>140L 14000 lumens <sup>2</sup> | (blank) Flush steel, white<br>FN Flush aluminum, natural<br>FM Flush aluminum, matte black<br>FW Flush aluminum, white<br>RN Regressed aluminum, natural<br>RM Regressed aluminum, matte black<br>RW Regressed aluminum, white | (blank) #12 pattern acrylic, 0.110" thick<br>A12125 #12 pattern acrylic, frosted, .0125" thick<br>A19 #19 pattern acrylic, 0.156" thick<br>SWL Satin white | (blank) MVOLT (120-277V)<br>120 120V<br>277 277V<br>347 347V <sup>3</sup> |

| Driver                                           | Color temperature | Controls <sup>6</sup>                                                                       | Options                                                                                     |
|--------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| EZ1 eldoLED dims to 1 %                          | LP830 3000 K      | (blank) No controls                                                                         | EL7L 700 lumen emergency battery (non-CEC compliant) <sup>5,7,8</sup>                       |
| GZ10 Dims to 10% (0-10V dimming)                 | LP835 3500 K      | N80 nLight with 80% (L80) lumen management                                                  | EL14L 1400 lumen emergency battery (non-CEC compliant) <sup>5,7,8</sup>                     |
| GZ1 Dims to 1% (0-10V dimming)                   | LP840 4000 K      | N80EMG nLight with 80% (L80) lumen management for use with generator supply emergency power | E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant <sup>5,7,8</sup> |
| SLD Step-level dimming <sup>4,5</sup>            | LP850 5000 K      | N100 nLight without lumen management                                                        | BGTD Bodine Generator Transfer Device <sup>9,10,11</sup>                                    |
| EXA1 eldoLED dims to 1%, XPoint wireless enabled |                   | N100EMG nLight without lumen management for use with generator supply emergency power       | CP Chicago plenum                                                                           |
|                                                  |                   |                                                                                             | PWS1836 6' pre-wire, 3/8" diameter, 18-gauge, 1-circuit                                     |
|                                                  |                   |                                                                                             | PWS1846 6' pre-wire, 3/8" diameter, 18-gauge, 2-circuit                                     |
|                                                  |                   |                                                                                             | ABC Door frame gasketing <sup>12</sup>                                                      |
|                                                  |                   |                                                                                             | GLR Fast-blowing fuse <sup>13</sup>                                                         |
|                                                  |                   |                                                                                             | GMF Slow-blowing fuse <sup>13</sup>                                                         |
|                                                  |                   |                                                                                             | LATC Earthquake clip                                                                        |
|                                                  |                   |                                                                                             | NPLT Narrow pallet                                                                          |
|                                                  |                   |                                                                                             | PAF Paint after fab                                                                         |

### Accessories: Order as separate catalog number.

DGA24 Drywall grid adapter for 2x4 recessed fixture.  
2X4SMK Surface Mount Troffer Kit.

### Notes

- 1 Approximate lumen output. Lumen output will vary depending upon lens option chosen.
- 2 Not available with GZ10.
- 3 Not available with SLD, EL7L, EL14L, E10WLCP or BGTD.
- 4 Not available with 100L and 140L.
- 5 When using pre-wire option, use PWS1846.
- 6 Not available with SLD, GZ1, GZ10 or EXA1.
- 7 Not available with SLD or GZ1 or GZ10 or EXA1 when combined with any of the following lumen packages: 72L, 88L, 100L or 140L.
- 8 Not available with EZ1 when combined with 100L or 140L lumen packages.

9 Not Available with SLD

10 Not Available with EXA1 or Controls options when ordered in combination with 100L or 140L lumen packages.

11 Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options. Example: BGTD BSE10.

12 Only available with aluminum door.

13 Must specify voltage, 120 or 277.

14 For CEC (T20) compliant option, substitute EL14L option with E10WLCP "EM self- diagnostic battery pack 10W constant power, CEC compliant".

Stock/Non-configurable models are offered for shorter lead times:

### ORDERING INFORMATION

| Catalog Number                         | UPC          | Description                               | Lumens | Color Temperature | Voltage | Wattage | Pallet qty. | Standard carton qty. |
|----------------------------------------|--------------|-------------------------------------------|--------|-------------------|---------|---------|-------------|----------------------|
| 2GTL4 4400LM LP835                     | 889804706598 | 2x4 LED lay-in troffer                    | 4391   | 3500K             | 120-277 | 34.10   | 28          | 1                    |
| 2GTL4 4400LM LP840                     | 889804706956 | 2x4 LED lay-in troffer                    | 4567   | 4000K             | 120-277 | 34.10   | 28          | 1                    |
| 2GTL4 4400LM 347 LP835                 | 889804710243 | 2x4 LED lay-in troffer, 347v              | 4391   | 3500K             | 347     | 38.11   | 28          | 1                    |
| 2GTL2 4400LM 347 LP840                 | 889804710359 | 2x4 LED lay-in troffer, 347v              | 4567   | 4000K             | 347     | 38.11   | 28          | 1                    |
| 2GTL2 4400LM EL14L LP835 <sup>14</sup> | 889804710045 | 2x4 LED lay-in troffer, emergency battery | 4391   | 3500K             | 120-277 | 34.10   | 28          | 1                    |
| 2GTL2 4400LM EL14L LP840 <sup>14</sup> | 889804710205 | 2x4 LED lay-in troffer, emergency battery | 4567   | 4000K             | 120-277 | 34.10   | 28          | 1                    |
| 2GTL4 5000LM LP835                     | 889804710366 | 2x4 LED lay-in troffer                    | 4867   | 3500K             | 120-277 | 38.79   | 28          | 1                    |
| 2GTL4 5000LM LP840                     | 889804710458 | 2x4 LED lay-in troffer                    | 5062   | 4000K             | 120-277 | 38.79   | 28          | 1                    |
| 2GTL4 5000LM 347 LP835                 | 889804710489 | 2x4 LED lay-in troffer, 347v              | 4867   | 3500K             | 347     | 42.78   | 28          | 1                    |
| 2GTL2 5000LM 347 LP840                 | 889804710595 | 2x4 LED lay-in troffer, 347v              | 5062   | 4000K             | 347     | 42.78   | 28          | 1                    |
| 2GTL2 5000LM EL14L LP835 <sup>14</sup> | 889804710625 | 2x4 LED lay-in troffer, emergency battery | 4867   | 3500K             | 120-277 | 38.79   | 28          | 1                    |
| 2GTL2 5000LM EL14L LP840 <sup>14</sup> | 889804710700 | 2x4 LED lay-in troffer, emergency battery | 5062   | 4000K             | 120-277 | 38.79   | 28          | 1                    |

| Performance Data |          |             |     |
|------------------|----------|-------------|-----|
| Lumen Package    | Lumens   | Input Watts | LPW |
| 30L LP830        | 2923.34  | 23.3        | 125 |
| 30L LP835        | 2983     | 23.3        | 128 |
| 30L LP840        | 3102.32  | 23.3        | 133 |
| 30L LP850        | 3161.98  | 23.3        | 136 |
| 40L LP830        | 3843.56  | 29.83       | 129 |
| 40L LP835        | 3922     | 29.83       | 131 |
| 40L LP840        | 4078.88  | 29.83       | 137 |
| 40L LP850        | 4157.32  | 29.83       | 139 |
| 48L LP830        | 4681.46  | 35.79       | 131 |
| 48L LP835        | 4777     | 35.79       | 133 |
| 48L LP840        | 4968.08  | 35.79       | 139 |
| 48L LP850        | 5063.62  | 35.79       | 141 |
| 60L LP830        | 6093.64  | 48.82       | 125 |
| 60L LP835        | 6218     | 48.82       | 127 |
| 60L LP840        | 6466.72  | 48.82       | 132 |
| 60L LP850        | 6591.08  | 48.82       | 135 |
| 72L LP830        | 7203.98  | 53.32       | 135 |
| 72L LP835        | 7351     | 53.32       | 138 |
| 72L LP840        | 7645.04  | 53.32       | 143 |
| 72L LP850        | 7792.06  | 53.32       | 146 |
| 88L LP830        | 8563.24  | 65          | 132 |
| 88L LP835        | 8738     | 65          | 134 |
| 88L LP840        | 9087.52  | 65          | 140 |
| 88L LP850        | 9262.28  | 65          | 143 |
| 100L LP830       | 10449.74 | 82.75       | 126 |
| 100L LP835       | 10663    | 82.75       | 129 |
| 100L LP840       | 11089.52 | 82.75       | 134 |
| 100L LP850       | 11302.78 | 82.75       | 137 |
| 140L LP830       | 13306.44 | 110.25      | 121 |
| 140L LP835       | 13578    | 110.25      | 123 |
| 140L LP840       | 14121.12 | 110.25      | 128 |
| 140L LP850       | 14392.68 | 110.25      | 131 |

**Note:** Performance based on standard #12 pattern acrylic lens.

## How to Estimate Delivered Lumens in Emergency Mode

Use the formula below to estimate the delivered lumens in emergency mode

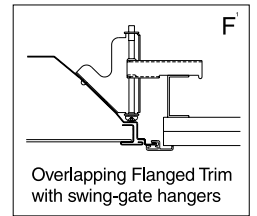
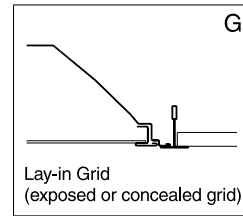
$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

## MOUNTING DATA

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



### NOTE:

- 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.

