

## 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 integrity of acrylic.** [Click here for Acrylic Environmental 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. 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. 90% LED lumen maintenance at 60,000 hours (L90/60,000).

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) qualified product. Not all versions of this product may be DLC 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

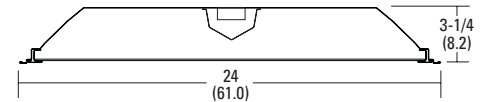


### Specifications

Length: 48 (122.0)

Width: 24 (61.0)

Depth: 3-1/4 (8.2)



All dimensions are inches (centimeters) unless otherwise indicated.

### ORDERING INFORMATION

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

**Example:** 2GTL 4 48L EZ1 LP835

Series	Length	Trim type	Lumens <sup>1</sup>	Door	Lens	Voltage	Driver	Color temperature
2GTL 2' wide recessed LED luminaire	4 4'	(blank) Grid F Overlapping flange	30L 3000 lumens 40L 4000 lumens 48L 4800 lumens 60L 6000 lumens 72L 7200 lumens	(blank) Flush steel, white FN Flush aluminum, natural FM Flush aluminum, matte black FW Flush aluminum, white RN Regressed aluminum, natural RM Regressed aluminum, matte black RW Regressed aluminum, white	(blank) #12 pattern acrylic, 0.125" thick A19 #19 pattern acrylic, 0.156" thick SWL Satin white	(blank) MVOLT (120-277V) 120 120V 277 277V 347 347V <sup>2</sup>	EZ1 eldoLED dims to 1% SLD Step-level dimming <sup>3</sup> EXA1 eldoLED dims to 1%, XPoint wireless enabled	LP830 3000 K LP835 3500 K LP840 4000 K LP850 5000 K

Controls <sup>4</sup>	Options
(blank) No controls	EL7L 700 lumen emergency battery <sup>5</sup>
N80 nLight with 80% (L80) lumen management	EL14L 1400 lumen emergency battery <sup>5</sup>
N80EMG nLight with 80% (L80) lumen management for use with generator supply emergency power	CP Chicago plenum
N100 nLight without lumen management	PWS1836 6' pre-wire, 3/8" diameter, 18-gauge, 1-circuit
N100EMG nLight without lumen management for use with generator supply emergency power	PWS1846 6' pre-wire, 3/8" diameter, 18-gauge, 2-circuit
	ABC Door frame gasketing <sup>5</sup>
	GLR Slow-blowing fuse <sup>6</sup>
	GMF Fast-blowing fuse <sup>6</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.

### Notes

- 1 Approximate lumen output. Lumen output will vary depending upon lens option chosen.
- 2 Not available with EL7L, EL14L, or SLD.
- 3 When using pre-wire option, use PWS1846.
- 4 Not available with SLD.
- 5 Only available with aluminum door.
- 6 Must specify voltage, 120 or 277.

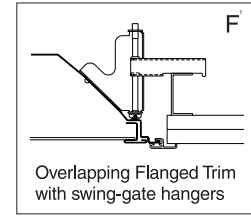
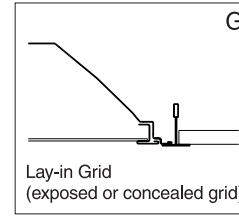
# 2GTL LED Troffer

Performance Data							
Lumen Package	Input Watts	Lumens	LPW	Lumen Package	Input Watts	Lumens	LPW
30L LP830	32.02	3347.66	104.55	60L LP830	54.8	5173.3	94.40
30L LP835	32.02	3515.04	109.78	60L LP835	54.8	5430.7	99.10
30L LP840	32.02	3690.8	115.27	60L LP840	54.8	5702.5	104.06
30L LP850	32.02	3875.34	121.03	60L LP850	54.8	5849.1	106.74
40L LP830	38.9	3910.8	100.53	72L LP830	71.0	6731.1	94.80
40L LP835	38.9	4103.7	105.49	72L LP835	71.0	7066.9	99.53
40L LP840	38.9	4290.2	110.29	72L LP840	71.0	7421.3	104.53
40L LP850	38.9	4393.3	112.94	72L LP850	71.0	7538.5	106.18
48L LP830	46.9	4583.3	97.72				
48L LP835	46.9	4815.2	102.67				
48L LP840	46.9	5036.3	107.38				
48L LP850	46.9	5164.2	110.11				

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

## MOUNTING DATA

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

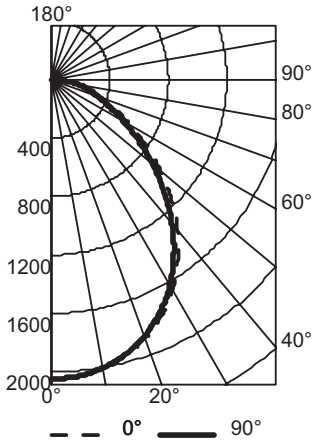


NOTE:

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.

## PHOTOMETRICS

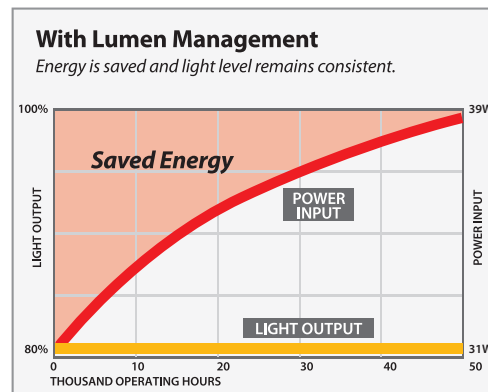
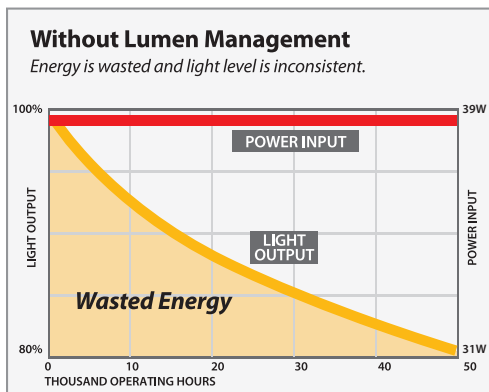
2GTL4 48L EZ1 LP835, 4815 delivered lumens, test no. LTL26406P9, tested in accordance to IESNA LM-79.



CP Summary		Coefficients of Utilization									Zonal Lumen Summary						
	0°	90°	pf	80%			70%			50%			Zone	Lumens	% Lamp	% Fixture	
			pc	70%	50%	30%	50%	30%	10%	50%	30%	10%					
	0°	2046	2046	0	119	119	119	116	116	116	111	111	111	0° - 30°	1551	32.2	32.2
	5°	2040	2038	1	109	105	101	103	99	96	98	95	93	0° - 40°	2471	51.3	51.3
	15°	1959	1948	2	100	92	86	90	85	80	87	82	78	0° - 60°	4002	83.1	83.1
	25°	1782	1755	3	92	82	74	80	73	67	77	71	66	0° - 90°	4813	100.0	100.0
	35°	1507	1460	4	85	73	65	72	64	58	69	63	57	90° - 120°	2	0.0	0.0
	45°	1158	1093	5	78	66	57	65	57	51	63	56	50	90° - 130°	2	0.0	0.0
	55°	795	726	6	72	60	51	59	51	45	57	50	44	90° - 150°	2	0.0	0.0
	65°	482	439	7	67	54	46	54	46	40	52	45	40	90° - 180°	2	0.0	0.0
	75°	257	255	8	63	50	42	49	41	36	48	41	36	0° - 180°	4815	100.0	100.0
	85°	96	94	9	59	46	38	45	38	32	44	37	32				
	90°	13	7	10	55	42	35	42	35	30	41	34	29				

## Constant Lumen Management

Enabled by the embedded nLight control, the GTL actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.



2GTL 2X4