

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. 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) 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 to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at 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

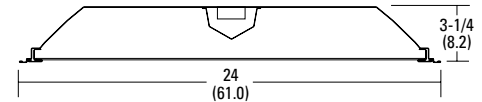


Specifications

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.

*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 EZ1 LP835

2GTL													
Series	Trim type	Length	Lumens ¹	Door	Lens	Voltage	Driver	Color temperature					
2GTL 2' wide recessed LED luminaire	(blank) Grid F Overlapping flange	4 4'	30L 3000 lumens	(blank) Flush steel, white	(blank) #12 pattern acrylic, 0.125" thick	(blank) MVOLT (120-277V)	EZ1 eldoLED dims to 1%	LP830	3000 K				
			40L 4000 lumens	FN Flush aluminum, natural	A19 #19 pattern acrylic, 0.156" thick	120 120V		LP835	3500 K				
			48L 4800 lumens	FM Flush aluminum, matte black		277 277V		LP840	4000 K				
			60L 6000 lumens	FW Flush aluminum, white	SWL Satin white	347 347V ²		LP850	5000 K				
			72L 7200 lumens	RN Regressed aluminum, natural		GZ10 Dims to 10% (0-10V dimming) ³							
				RM Regressed aluminum, matte black		GZ1 Dims to 1% (0-10V dimming) ³							
				RW Regressed aluminum, white	SLD Step-level dimming ⁴								
		EXA1 eldoLED dims to 1%, XPoint wireless enabled											

Controls ⁵	Options
(blank) No controls	EL7L 700 lumen emergency battery (non-CEC compliant) ⁴
N80 nLight with 80% (L80) lumen management	EL14L 1400 lumen emergency battery (non-CEC compliant) ⁴
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 ⁴
N100 nLight without lumen management	CP Chicago plenum
N100EMG nLight without lumen management for use with generator supply emergency power	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 ⁶
	GLR Fast-blowing fuse ⁷
	GMF Slow-blowing fuse ⁷
	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 EL7L, EL14L, or SLD.
- 3 GZ1, GZ10 Drivers not available with any Controls options. Also not available with 72L or battery packs.
- 4 When using pre-wire option, use PWS1846.
- 5 Not available with SLD.
- 6 Only available with aluminum door.
- 7 Must specify voltage, 120 or 277.

Performance Data			
Lumen package	Lumens	Input watts	LPW
30L LP830	3272	26.9	122
30L LP835	3435	26.9	128
30L LP840	3599	26.9	134
30L LP850	3676	26.9	136
40L LP830	4107	30.8	133
40L LP835	4309	30.8	140
40L LP840	4505	30.8	146
40L LP850	4613	30.6	151
48L LP830	4950	37.9	130
48L LP835	5200	37.9	137
48L LP840	5439	37.9	143
48L LP850	5577	37.8	147
60L LP830	6001	48.3	124
60L LP835	6300	48.3	130
60L LP840	6615	48.3	137
60L LP850	6785	48.3	141
72L LP830	7068	53.2	133
72L LP835	7420	53.2	139
72L LP840	7792	53.2	146
72L LP850	7916	53.3	149

How to Estimate Delivered Lumens in Emergency Mode

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

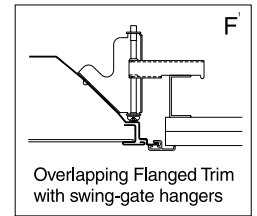
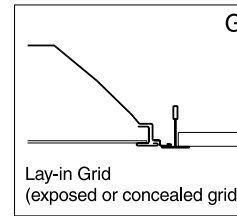
$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

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).



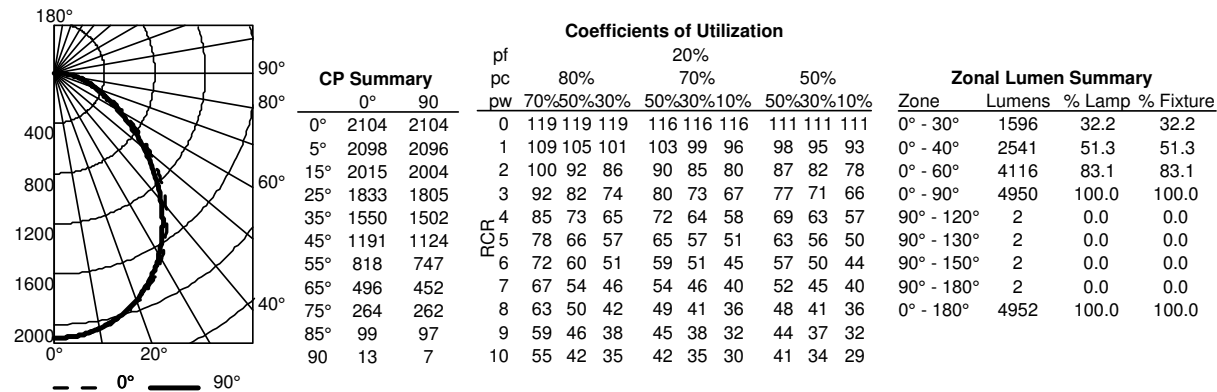
NOTE:

- 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.

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

PHOTOMETRICS

2GTL4 48L EZ1 LP835, 4953 delivered lumens, test no. LTL26406P109, tested in accordance to IESNA LM-79.



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.

