LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

2GTL

2' x 2'
LED Recessed Troffer

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.

Specifications

Length:	24 (61.0)
Width:	24 (61.0)
Depth:	3-1/4 (8.2)

3-1/4 (8.2)
24 (61.0)
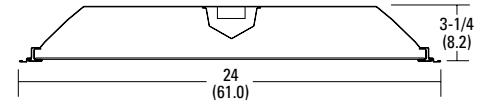
All dimensions are inches (centimeters) unless otherwise indicated.

⟨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

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 2 33L EZ1 LP835

2GTL

Series	Trim type		Length		Lumens[1]		Door		Lens		Voltage		Driver		Color temperature	
2GTL 2' wide recessed LED luminaire	(blank) F	Grid Overlapping flange	2	2'	20L 33L 40L	2000 lumens 3300 lumens 4000 lumens	(blank) FN FM FW RN RM RW	Flush steel, white Flush aluminum, natural Flush aluminum, matte black Flush aluminum, white Regressed aluminum, natural Regressed aluminum, matte black Regressed aluminum, white	(blank) A19 SWL	#12 pattern acrylic, 0.125" thick #19 pattern acrylic, 0.156" thick Satin white	(blank) 120 277 347	MVOLT (120-277V) 120V 277V[2]	EZ1 GZ10 GZ1 SLD EXA1	eldoLED dims to 1 % Dims to 10% (0-10V dimming)[3] Dims to 1% (0-10V dimming)[3] Step-level dimming eldoLED dims to 1%, XPoint wireless enabled	LP830 LP835 LP840 LP850	3000 K 3500 K 4000 K 5000 K

Controls[4]		Options	
(blank)	No controls	EL7L	700 lumen emergency battery (non-CEC compliant) [5]
N80	nLight with 80% (L80) lumen management	EL14L	1400 lumen emergency battery (non-CEC compliant) [5]
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 [5]
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.*

DGA22	Drywall grid adapter for 2x2 recessed fixture.
2X2SMK	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.
4   Not available with SLD.
5   When using pre-wire option, use PWS1846.
6   Only available with aluminum door.
7   Must specify voltage, 120 or 277.

2GTL LED Troffer

Performance Data

Lumen package	Lumens	Input watts	LPW
20L LP830	2159	16.9	127
20L LP835	2267	16.9	134
20L LP840	2375	16.9	140
20L LP850	2414	16.9	143
33L LP830	3598	30.6	118
33L LP835	3764	30.6	123
33L LP840	3945	30.6	129
33L LP850	3973	30.6	130
40L LP830	3848	34.2	112
40L LP835	4038	34.2	118
40L LP840	4232	34.2	124
40L LP850	4353	34.2	127

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

Delivered Lumens = 1.25 x P x LPW

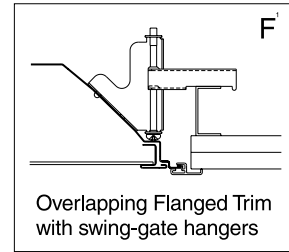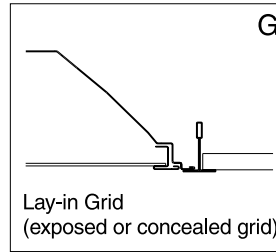P = Ouput power of emergency driver. P = 10W for E10WLCP option.

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).

G

Lay-in Grid (exposed or concealed grid)

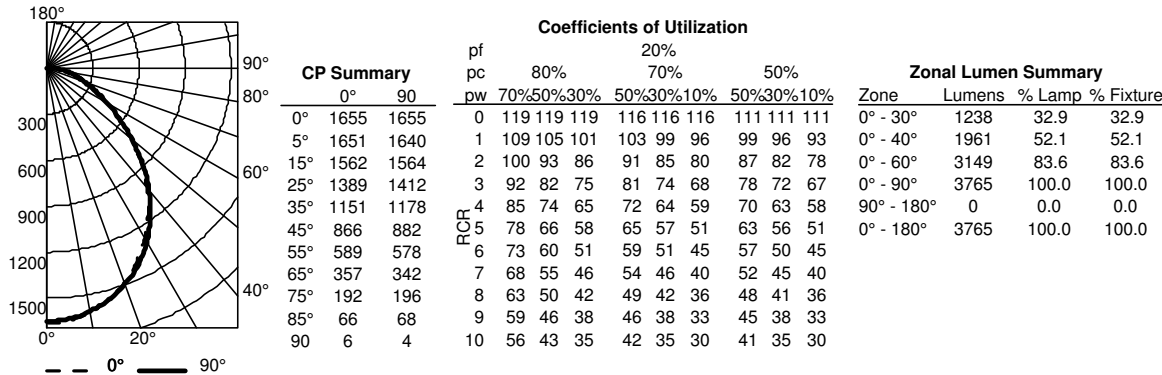

F[1]

Overlapping Flanged Trim with swing-gate hangers

NOTE:
1 Recommended rough-in dimensions for F-trim fixtures 24"x24" (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

2GTL2 33L EZ1 LP835, 3764 delivered lumens, test no. LTL26153P105, tested in accordance to IESNA LM-79.

CP Summary

	0°	90
0°	1655	1655
5°	1651	1640
15°	1562	1564
25°	1389	1412
35°	1151	1178
45°	866	882
55°	589	578
65°	357	342
75°	192	196
85°	66	68
90	6	4

Coefficients of Utilization

pf		20%								
pc		80%			70%			50%		
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	109	105	101	103	99	96	99	96	93
2	100	93	86	91	85	80	87	82	78
3	92	82	75	81	74	68	78	72	67
4	85	74	65	72	64	59	70	63	58
5	78	66	58	65	57	51	63	56	51
6	73	60	51	59	51	45	57	50	45
7	68	55	46	54	46	40	52	45	40
8	63	50	42	49	42	36	48	41	36
9	59	46	38	46	38	33	45	38	33
10	56	43	35	42	35	30	41	35	30

(RCR)

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1238	32.9	32.9
0° - 40°	1961	52.1	52.1
0° - 60°	3149	83.6	83.6
0° - 90°	3765	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	3765	100.0	100.0

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.

Without Lumen Management
Energy is wasted and light level is inconsistent.

With Lumen Management
Energy is saved and light level remains consistent.