LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

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 — The GTL fits into standard 15/16" and narrow 9/16" T-Grid ceiling systems. 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.

GOVERNMENT PROCUREMENT — BAA – Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.

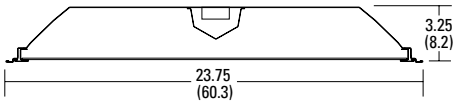
GTL Series

2GTL

2' x 2'
LED Recessed Troffer

Specifications

Length: 23.75 (60.3)
Width: 23.75 (60.3)
Depth: 3.25 (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 2 33L GZ10 LP835

2GTL						
Series	**Trim type**	**Length**	**Lumens**[1]	**Door**	**Lens**	**Voltage**
2GTL 2' wide recessed LED luminaire	(blank) Grid F Overlapping flange	2 2'	20L 2000 lumens 33L 3300 lumens 40L 4000 lumens 48L 4800 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, 0.110" thick A12125 #12 pattern acrylic, frosted, .125" thick A19 #19 pattern acrylic, 0.156" thick SWL Satin white	(blank) MVOLT (120-277V) 120 120V 277 277V 347 347V[2]

Driver	**Color temperature**	**Controls**[4]	**Options**
EZ1 eldoLED dims to 1% (0-10V dimming)	LP830 3000 K	(blank) No controls	BDP Disconnect Plug
GZ10 Dims to 10% (0-10V dimming)	LP835 3500 K	N80 nLight with 80% (L80) lumen management	EL7L 700 lumen emergency battery (Noncompliant with CA T20) [3,5,6]
GZ1 Dims to 1% (0-10V dimming)	LP840 4000 K	N80EMG nLight with 80% (L80) lumen management for use with generator supply emergency power	EL14L 1400 lumen emergency battery (Noncompliant with CA T20) [3,5,6]
SLD Step-level dimming [3]	LP850 5000 K	N100 nLight without lumen management	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS [3]
		N100EMG nLight without lumen management for use with generator supply emergency power	BGTD Bodine Generator Transfer Device [7,8]
			CP Chicago plenum [9]
			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 [10]
			GLR Fast-blowing fuse [11]
			GMF Slow-blowing fuse [11]
			LATC Earthquake clip
			NPLT Narrow pallet
			PAF Paint after fab
			BAA Buy America(n) Act and/or Build America Buy America Qualified

Accessories: *Order as separate catalog number.*

DGA22	Drywall grid adapter for 2x2 recessed fixture.
2X2SMKSHP PAF	Surface Mount Troffer Kit Post Paint
RK8BDP 2P U	Disconnect Plug (BDP), 2 Pole, Package of 1
RK8BDP 3P U	Disconnect Plug (BDP), 3 Pole, Package of 1
RK8BDP 2P J10	Disconnect Plug (BDP), 2 Pole, Package of 10
RK8BDP 2P J40	Disconnect Plug (BDP), 2 Pole, Package of 40

Notes

1 Approximate lumen output. Lumen output will vary depending upon lens option chosen.
2 Not available with SLD, EL7L, EL14L, E10WLCP, or BGTD.
3 When using pre-wire option, use PWS1846.
4 Not available with SLD, GZ1, GZ10.
5 Not available with EZ1, and SLD when combined with 40L or 48L lumen packages.
6 Not available with GZ1 or GZ10 when combined with 48L lumen package.
7 Not available with SLD.
8 Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options. Example: BGTD BSE10.
9 Not available with PWS1836, PWS1846, PWS1856LV, or PWS1846 PWSLV.
10 Only available with aluminum door.
11 Must specify voltage, 120 or 277.
12 For CEC (T20) compliant option, substitute EL14L option with E10WLCP "EM self- diagnostic battery pack 10W constant power, CEC compliant".

Emergency Battery Pack Options – Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILB CP10 HE AELR A	10W	90	1200	Title 20; Enabled with Self Testing, Automated Reporting (STAR)
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

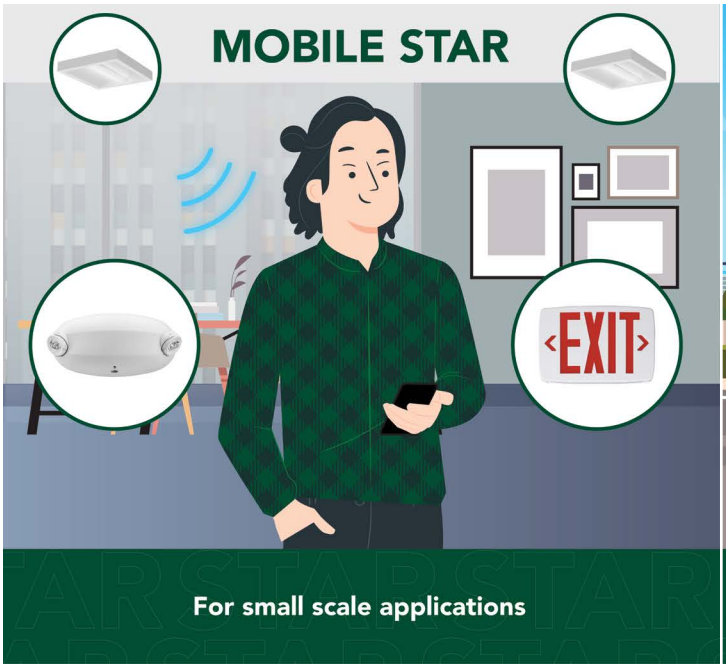
All the above are UL Listed products that are certified for field install external/remote to the fixture.
*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.
The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.
Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

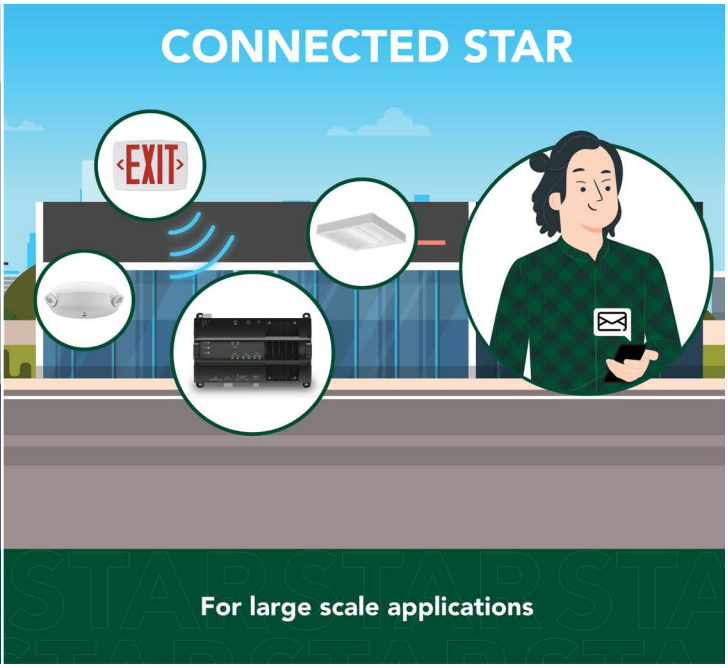
Enabled with STAR

Emergency Lighting with Self-Testing Automated Reporting (STAR), enables self-testing and automated reporting to aid in life safety code compliance. Build your solution and choose your preferred deployment from Mobile STAR, where test data is logged in each individual unit and broadcast to the CI**AIR**ity™**+** app, or Connected STAR, where test data is logged in the STAR Gateway by IOTA® and emailed directly. **Leave the ladders, disruptions and written records behind with emergency lighting solutions with STAR!**

Life Safety Code NFPA 101 testing and reporting requirements for emergency lighting include:

- Testing for 30 seconds every 30 days
- Testing for 90 minutes once a year
- Record keeping and to report to the authority having local jurisdiction





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

ORDERING INFORMATION

Catalog Number	UPC	Description	Lumens	Color Temprature	Voltage	Wattage	Pallet qty.	Standard carton qty.
2GTL2 3300LM LP835	889804702637	2x2 LED lay-in troffer	3277	3500K	120-277	27.61	56	1
2GTL2 3300LM LP840	889804702460	2x2 LED lay-in troffer	3408	4000K	120-277	27.61	56	1
2GTL2 3300LM 347 LP835	889804703634	2x2 LED lay-in troffer, 347v	3277	3500K	347	30.76	56	1
2GTL2 3300LM 347 LP840	889804703900	2x2 LED lay-in troffer, 347v	3408	4000K	347	30.76	56	1
2GTL2 3300LM EL14L LP835 [12]	889804704440	2x2 LED lay-in troffer, emergency battery	3277	3500K	120-277	27.61	12	1
2GTL2 3300LM EL14L LP840 [12]	889804706246	2x2 LED lay-in troffer, emergency battery	3408	4000K	120-277	27.61	12	1
2GTL2 3700LM LP835	889804704143	2x2 LED lay-in troffer	3702	3500K	120-277	30.96	56	1
2GTL2 3700LM LP840	889804704242	2x2 LED lay-in troffer	3850	4000K	120-277	30.96	56	1
2GTL2 3700LM 347 LP835	889804704303	2x2 LED lay-in troffer, 347v	3702	3500K	347	34.99	56	1
2GTL2 3700LM 347 LP840	889804704365	2x2 LED lay-in troffer, 347v	3850	4000K	347	34.99	56	1
2GTL2 3700LM EL14L LP835 [12]	889804706307	2x2 LED lay-in troffer, emergency battery	3702	3500K	120-277	30.96	12	1
2GTL2 3700LM EL14L LP840 [12]	889804706352	2x2 LED lay-in troffer, emergency battery	3850	4000K	120-277	30.96	12	1

Performance Data			
Lumen Package	**Lumens**	**Input Watts**	**LPW**
20L LP830	2203.04	18.39	120
20L LP835	2248	18.39	122
20L LP840	2337.92	18.39	127
20L LP850	2382.88	18.39	130
33L LP830	3292.8	28.6	115
33L LP835	3360	28.6	117
33L LP840	3494.4	28.6	122
33L LP850	3561.6	28.6	125
40L LP830	3756.34	33.61	112
40L LP835	3833	33.61	114
40L LP840	3986.32	33.61	119
40L LP850	4062.98	33.61	121
48L LP830	4759.86	41.95	113
48L LP835	4857	41.95	116
48L LP840	5051.28	41.95	120
48L LP850	5148.42	41.95	123

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

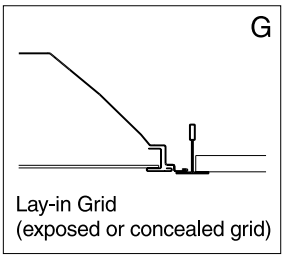
Delivered Lumens = 1.25 x P x LPW

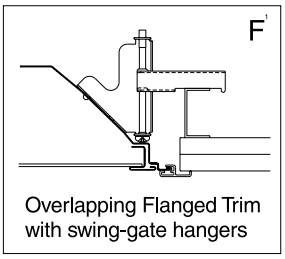
P = Ouput power of emergency driver. P = 10W for E10WLCP option.

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).



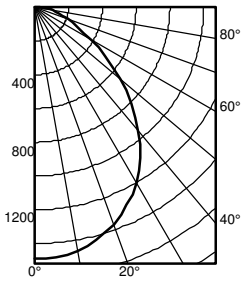


NOTE:

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

2GTL 2 33L LP835, 3399 delivered lumens, test no. ISF 36873P6, tested in accordance to IESNA LM-79.



	Ave	Lumens
0	1491	
5	1489	141
15	1422	401
25	1292	594
35	1086	677
45	808	622
55	512	460
65	283	284
75	149	159
85	57	61
90	0	

Zone	Lumens	% Lamp
0° - 30°	1136.6	33.4
0° - 40°	1813.7	53.4
0° - 60°	2895.2	85.2
0° - 90°	3399.0	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	3399.0	*100.0

*Efficiency

pf	20%			70%			50%		
pc	80%								
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	105	101	98	103	100	96	99	96	93
2	93	87	82	91	86	81	88	83	79
3	83	75	69	81	74	69	78	72	68
4	74	66	60	73	65	59	70	64	59
5	67	58	52	66	58	52	64	57	51
6	61	52	46	60	52	46	58	51	46
7	55	47	41	55	47	41	53	46	41
8	51	43	37	50	42	37	49	42	37
9	47	39	34	46	39	33	45	38	33
10	43	36	31	43	35	31	42	35	30

		50% beam - 63.0°		10% beam - 103.8°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	47.7	6.7	23.8	14.0	4.8
10.0	26.1	9.2	12.8	19.1	2.5
12.0	16.4	11.6	8.0	24.2	1.6
14.0	11.3	14.1	5.5	29.3	1.1
16.0	8.2	16.5	4.0	34.4	0.8

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.