LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

INTENDED USE — The GTL 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) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. 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.
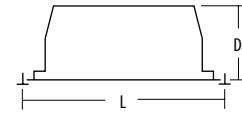Specifications subject to change without notice.

GTL Series

GTL

1' x 4'
LED Recessed Troffer

BAA · CSA+ CAPABLE · DLC LISTED · LED · nLIGHT

Specifications

Length:	47.75 (121.3)
Width:	11.75 (29.8)
Depth:	4.5 (11.4)

All dimensions are inches (centimeters) unless otherwise indicated.

CSA+ 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

GTL LED Troffer

GTL							
Series	**Trim type**		**Length**	**Lumens**[1]	**Door**	**Lens**	**Voltage**
GTL 1' wide recessed LED luminaire	(blank) Grid		4 4'	20L 2000 lumens	(blank) Flush steel, white	(blank) #12 pattern acrylic, 0.110" thick	(blank) MVOLT (120-277V)
	F Overlapping flange			33L 3300 lumens	FN Flush aluminum, natural	A12125 #12 pattern acrylic, frosted, .125" thick	120 120V
				40L 4000 lumens	FM Flush aluminum, matte black	A19 #19 pattern acrylic, 0.156" thick	277 277V
				48L 4800 lumens	FW Flush aluminum, white	SWL Satin white	347 347V[2]
					RN Regressed aluminum, natural		
					RM Regressed aluminum, matte black		
					RW Regressed aluminum, white		

Driver		**Color temperature**	**Controls**[4,5]		**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 Nominal 700 lumen emergency battery (Noncompliant with CA T20) [3,6,7]	
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 Nominal 1400 lumen emergency battery (Noncompliant with CA T20) [3,6,7]	
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 [8,9]	
					CP Chicago plenum[10]	
					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[11]	
					GLR Fast-blowing fuse[12]	
					GMF Slow-blowing fuse[12]	
					LATC Earthquake clip	
					NPLT Narrow pallet	
					PAF Paint after fab	
					BAA Buy America(n) Act Compliant	

Accessories: *Order as separate catalog number.*

DGA14	Drywall grid adapter for 1x4 recessed fixture.
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, GZ10, GZ1.
5. Cannot row mount when ordered with nLight options.
6. Not available with EZ1, and SLD when combined with 40L or 48L lumen packages.
7. Not available with GZ1 or GZ10 when combined with 48L lumen package.
8. Not available with SLD.
9. Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options. Example: BGTD BSE10.
10. Not available with PWS1836, PWS1846, PWS1856LV, or PWS1846 PWSLV.
11. Only available with aluminum door.
12. Must specify voltage, 120 or 277.
13. 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:

Catalog Number	UPC	Description	Lumens	Color Temprature	Voltage	Wattage	Pallet qty.	Standard carton qty.
GTL4 3700LM LP835	889804707076	1x4 LED lay-in troffer	3696	3500K	120-277V	30.94W	40	1
GTL4 3700LM LP840	889804707090	1x4 LED lay-in troffer	3844	4000K	120-277V	30.94W	40	1
GTL4 3700LM 347 LP835	889804707212	1x4 LED lay-in troffer, 347v	3696	3500K	347V	35.34W	40	1
GTL4 3700LM 347 LP840	889804707335	1x4 LED lay-in troffer, 347v	3844	4000K	347V	35.34W	40	1
GTL4 3700LM EL14L LP835 [13]	889804707441	1x4 LED lay-in troffer, emergency battery	3696	3500K	120-277V	30.94W	40	1
GTL4 3700LM EL14L LP840 [13]	889804707724	1x4 LED lay-in troffer, emergency battery	3844	4000K	120-277V	30.94W	40	1

LITHONIA LIGHTING

GTL 1X4

GTL LED Troffer

Performance Data			
Lumen Package	Lumens	Input Watts	LPW
20L LP830	2286.34	18.46	124
20L LP835	2333	18.46	126
20L LP840	2426.32	18.46	131
20L LP850	2472.98	18.46	134
33L LP830	3265.36	28.4	115
33L LP835	3332	28.4	117
33L LP840	3465.28	28.4	122
33L LP850	3531.92	28.4	124
40L LP830	3798.48	34.1	111
40L LP835	3876	34.1	114
40L LP840	4031.04	34.1	118
40L LP850	4108.56	34.1	120
48L LP830	4824.54	42.33	114
48L LP835	4923	42.33	116
48L LP840	5119.92	42.33	121
48L LP850	5218.38	42.33	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.
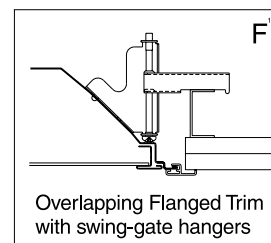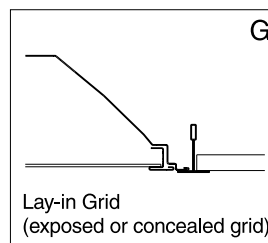LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

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

Lay-in Grid
(exposed or concealed grid)

Overlapping Flanged Trim
with swing-gate hangers

NOTE:
1   Recommended rough-in dimensions for F-trim fixtures 12"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.

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	
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.
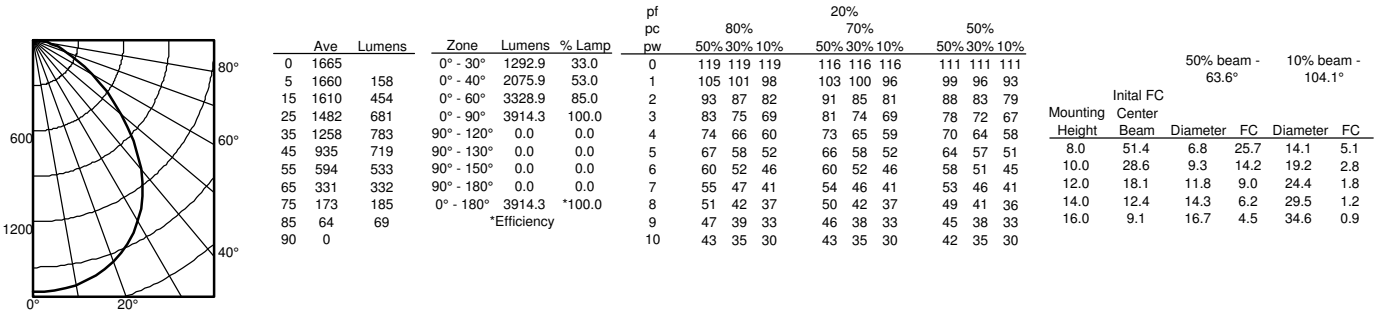
*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

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.

GTL LED Troffer

PHOTOMETRICS

GTL 4 40L LP835, 3914 delivered lumens, test no. ISF 36856P10, tested in accordance to IESNA LM-79.

	Ave	Lumens
0	1665	
5	1660	158
15	1610	454
25	1482	681
35	1258	783
45	935	719
55	594	533
65	331	332
75	173	185
85	64	69
90	0	

Zone	Lumens	% Lamp
0° - 30°	1292.9	33.0
0° - 40°	2075.9	53.0
0° - 60°	3328.9	85.0
0° - 90°	3914.3	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°	3914.3	*100.0
	*Efficiency	

pf pc pw	80%			20% 70%			50%		
	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	85	81	88	83	79
3	83	75	69	81	74	69	78	72	67
4	74	66	60	73	65	59	70	64	58
5	67	58	52	66	58	52	64	57	51
6	60	52	46	60	52	46	58	51	45
7	55	47	41	54	46	41	53	46	41
8	51	42	37	50	42	37	49	41	36
9	47	39	33	46	38	33	45	38	33
10	43	35	30	43	35	30	42	35	30

Mounting Height	Inital FC Center Beam	50% beam - 63.6°		10% beam - 104.1°	
		Diameter	FC	Diameter	FC
8.0	51.4	6.8	25.7	14.1	5.1
10.0	28.6	9.3	14.2	19.2	2.8
12.0	18.1	11.8	9.0	24.4	1.8
14.0	12.4	14.3	6.2	29.5	1.2
16.0	9.1	16.7	4.5	34.6	0.9

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.