LITHONIA LIGHTING®

T SERIES LED

2TL

2' x 4' LED

FEATURES & SPECIFICATIONS

INTENDED USE —The T Series LED combines digital lighting and control technologies with a high-performance optical system to deliver general ambient lighting for many applications such as schools, offices and hospitals.

High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable. **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 cold-rolled steel. Housing is painted after fabrication for superior finish.

Smooth hemmed sides and smooth inward-formed end flanges, for easy handling.

Standard extruded aluminum door frame has superior structural integrity with premium appearance and mitered corners. Door frame is painted after fabrication, standard. Powder-painted rotary cam latches provide easy, secure door closure. Integral T-bar clips are standard. Acrylic shielding material is 100% UV stabilized.

OPTICS — Standard pattern #19 lens, 0.156" thick with highly transmissive overlay, is standard for superior brightness control. Overlay is 0.040" thick. Other lenses are available.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior level and quality of illumination for 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 continuously monitor system performance, allow for constant lumen management/compensation function, facilitate simple "plug-and-play" network and controls upgrading via Cat-5 cable.

Driver disconnect is provided where required to comply with U.S. and Canadian codes.

INSTALLATION — Drivers and internal components are accessible from floor. LED boards include plug-in connectors for easy replacement or servicing. Suitable for direct insulation contact. Suitable for damp location.

LISTINGS — CSA certified to 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 to confirm which versions are qualified.

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

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.
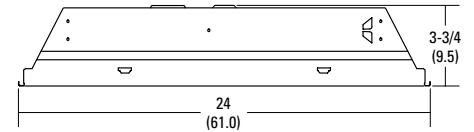Specifications subject to change without notice.

Specifications

Length: 48 (122.0)
Width: 24 (61.0)
Depth: 3-3/4 (9.5)

3-3/4 (9.5)

24 (61.0)

All dimensions are inches (centimeters) unless otherwise noted.

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   *See ordering tree for details

A+ Capable options indicated by this color background.

2TL4

Series	Lumens [1]	Door	Lens	Voltage
2TL4 Recessed LED 2x4	30L 3000 lumens	FW Flush aluminum, white	A12 #12 pattern acrylic	(blank) MVOLT (120-277V)
	40L 4000 lumens	RW Regressed aluminum, white	A19 #19 pattern acrylic, 0.156" thick	347 347V [2]
	48L 4800 lumens		MWS Matte white .040" thick	
	60L 6000 lumens		MPL Micro prism	
	72L 7200 lumens		SWL Satin white	

Driver		Color temperature	Control		Options	
EZ1	eldoLED dims to 1% (0-10 volt dimming)	LP830 3000 K	(blank)	No controls	EL7L	700 nominal lumen battery pack (non-CEC compliant)
EZB	eldoLED dims to dark (0-10 volt dimming)	LP835 3500 K	N80	nLight with 80% (L80) lumen management	EL14L	1400 nominal lumen battery pack (non-CEC compliant)
GZ1	Dims to 1% (0-10V dimming) [3]	LP840 4000 K	N80EMG	nLight with 80% (L80) lumen management for use with generator supply EM power	E10WLCP	EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant
GZ10	Dims to 10% (0-10V dimming) [3]	LP850 5000 K	N100	nLight without lumen management	CP	Chicago plenum
EDB	eldoLED DALI [4]		N100EMG	nLight without lumen management for use with generator supply EM power		
EXB	eldoLED DMX/RDM [4]					
EXA1	Dims to 1%, XPoint wireless enabled [4,5]					
EXAB	Dims to dark, XPoint wireless enabled [4,5]					
SLD	Step-level dimming [4]					

Accessories: *Order as separate catalog number.*	
DGA24	Drywall grid adapter for 2x4 recessed fixture.

Notes
1 Approximate lumen output.
2 Not available with EL7L or EL14L battery packs or SLD driver.
3 GZ1, GZ10 drivers not available with any Controls options.
4 Not available with N80, N80EMG, N100, or N100EMG.
5 Gateway not included. Requires on-site commissioning.
   Visit www.lightingcontrols.com/XPointWireless for more information.

Performance Data				
Lumen	**Package**	**Lumens**	**Input Watts**	**LPW**
30L	LP830	3,010.9	25	120.4
30L	LP835	3,075.5	25	123.0
30L	LP840	3,097.0	25	123.9
30L	LP850	3,204.7	25	128.2
40L	LP830	3,835.1	32	119.8
40L	LP835	3,918.2	32	122.4
40L	LP840	3,945.8	32	123.3
40L	LP850	4,084.2	32	127.6
48L	LP830	4,730.1	40	118.3
48L	LP835	4,831.6	40	120.8
48L	LP840	4,865.4	40	121.6
48L	LP850	5,034.6	40	125.9
60L	LP830	5,431.3	47	115.6
60L	LP835	5,548.2	47	118.0
60L	LP840	5,588.2	47	118.9
60L	LP850	5,785.0	47	123.1
72L	LP830	7,513.4	67	112.1
72L	LP835	7,673.3	67	114.5
72L	LP840	7,728.7	67	115.4
72L	LP850	7,999.3	67	119.4

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.
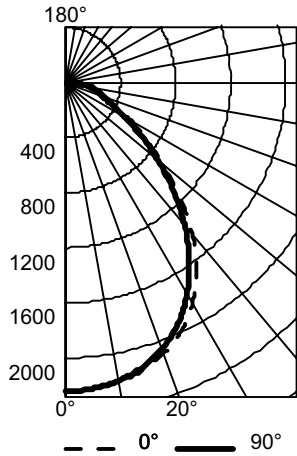LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

LITHONIA LIGHTING

PHOTOMETRICS

2TL4 48L FW A12 EZ1 LP840, 4865.4 delivered lumens, test no. LTL26934P10, tested in accordance to IESNA LM-79.

CP Summary

	0°	90
0°	2239	2239
5°	2234	2231
15°	2163	2144
25°	1990	1933
35°	1661	1569
45°	1174	1109
55°	717	668
65°	403	370
75°	228	240
85°	97	108
90	0	0

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	110	106	102	103	100	97	99	96	94
2	101	94	88	92	86	81	88	84	80
3	93	84	76	82	75	70	79	73	69
4	86	75	67	74	66	61	71	65	60
5	80	68	60	67	59	53	65	58	53
6	74	62	53	61	53	47	59	52	47
7	69	56	48	56	48	42	54	47	42
8	64	52	44	51	43	38	50	43	38
9	60	48	40	47	40	35	46	39	34
10	57	44	37	44	37	32	43	36	32

(RCR = rows 0–10)

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1713	35.2	35.2
0° - 40°	2710	55.7	55.7
0° - 60°	4192	86.2	86.2
0° - 90°	4865	100.0	100.0
90° - 120°	0	0.0	0.0
90° - 130°	0	0.0	0.0
90° - 150°	0	0.0	0.0
90° - 180°	0	0.0	0.0
0° - 180°	4865	100.0	100.0

— — — 0°   —— 90°

Constant Lumen Management

Enabled by the embedded nLight control, the T Series LED 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, theis feature eliminates the energy waste created by the traditional practice of over-lighting.

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

POWER INPUT · LIGHT OUTPUT · **Wasted Energy**

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

Saved Energy · POWER INPUT · LIGHT OUTPUT