LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

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T SERIES SURFACE MOUNT

2TLX4

2' x 4' LED

eldoLED® DLC QPL LISTED nLIGHT®

FEATURES & SPECIFICATIONS

INTENDED USE — The T Series LED surface mount 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 light installation that is highly efficient and sustainable. **Certain airborne contaminants can diminish integrity of acrylic. Click here for Acrylic Environmental 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 quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000).

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 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.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

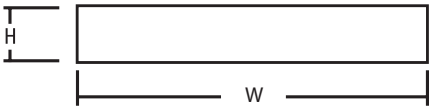
Driver disconnect provided where required to comply with US and Canadian codes.

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

LISTINGS — CSA certified to US and Canadian standards. 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.

Specifications

Length: 48-3/4 (123.8)
Width: 24-3/4 (62.9)
Depth: 4-3/4 (12.1)



All dimensions are inches (centimeters) unless otherwise indicated.

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.

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ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: 2TLX4 40L RW A19 EZ1 LP835 N80

2TLX4											
Series		**Lumens**[1]		**Door**		**Lens**		**Voltage**		**Driver**	
2TLX4	Surface LED 2x4	30L	3000 lumens	FW	Flush aluminum, white	A12	#12 pattern acrylic	(blank)	MVOLT (120-277)	EZ1	eldoLED dims to 1% (0-10 volt dimming)
		40L	4000 lumens	RW	Regressed aluminum, white	A19	#19 pattern acrylic, 0.156" thick	347	347[2]	EZB	eldoLED dims to dark (0-10 volt dimming)
		48L	4800 lumens			MWS	Matte white .040" thick			EDB	eldoLED DALI[3]
		60L	6000 lumens			MPL	Micro prism			EXB	eldoLED DMX/RDM[3]
		72L	7200 lumens			SWL	Satin white			EXA1	Dims to 1%, XPoint wireless enabled[3,4]
										EXAB	Dims to dark, XPoint wireless enabled[3,4]
										SLD	Step-level dimming[3]

Color temperature		**Control**		**Options**	
LP830	3000 K	(blank)	No controls	EL7L	700 nominal lumen battery pack[5]
LP835	3500 K	N80	nLight with 80% (L80) lumen management	EL14L	1400 nominal lumen battery pack[5]
LP840	4000 K	N80EMG	nLight with 80% (L80) lumen management for use with generator supply EM power		
LP850	5000 K	N100	nLight without lumen management		
		N100EMG	nLight without lumen management for use with generator supply EM power		

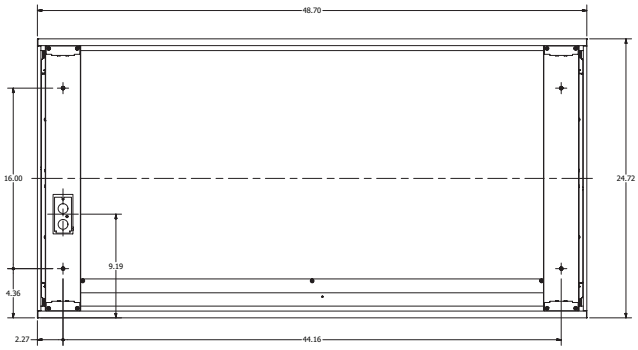
Notes

1 Approximate lumen output.
2 Not available with EL7L or EL14L battery packs or SLD driver.
3 Not available with N80, N80EMG, N100, or N100EMG.
4 Gateway not included. Requires on-site commissioning. Visit www.lightingcontrols.com/XPointWireless for more information.
5 Not available with 72L option.

2TLX4 Surface Mount LED Lighting 2' x 4'

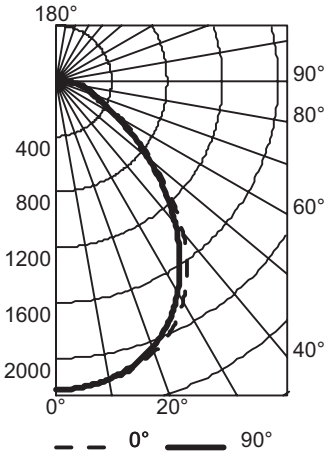
Performance Data				
Lumen	**Package**	**Lumens**	**Input Watts**	**LPW**
30L	LP830	3,010.9	25	120.4
30L	LP835	3,075.5	25	123.0
30L	LP840	3,097.0	25	123.9
30L	LP850	3,204.7	25	128.2
40L	LP830	3,835.1	32	119.8
40L	LP835	3,918.2	32	122.4
40L	LP840	3,945.9	32	123.3
40L	LP850	4,084.3	32	127.6
48L	LP830	4,730.1	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

MOUNTING DATA



PHOTOMETRICS

2TLX4 48L FW A12 EZ1 LP840, 4831.6 delivered lumens, test no. LTL26934P29, tested in accordance to IESNA LM-79.



CP Summary

	0°	90
0°	2223	2223
5°	2218	2215
15°	2148	2129
25°	1976	1920
35°	1650	1558
45°	1166	1101
55°	712	663
65°	401	368
75°	226	239
85°	96	107
90	0	0

Coefficients of Utilization

	pf	20%								
	pc	80%			70%			50%		
RCR	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

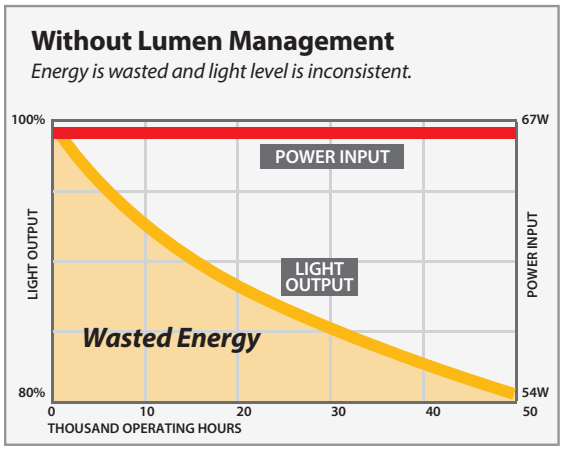
Zonal Lumen Summary

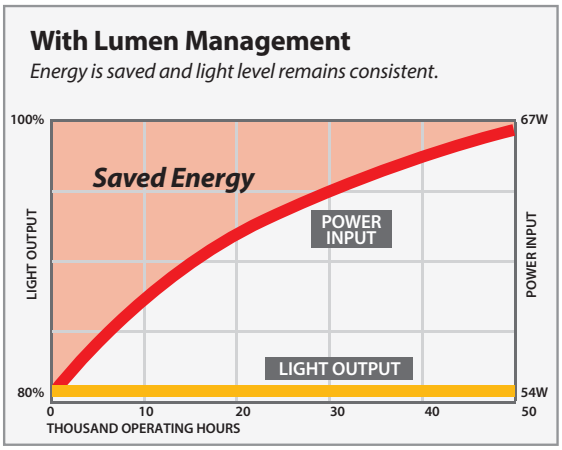
Zone	Lumens	% Lamp	% Fixture
0° - 30°	1701	35.2	35.2
0° - 40°	2691	55.7	55.7
0° - 60°	4162	86.2	86.2
0° - 90°	4831	100.0	100.0
90° - 120°	0	0.0	0.0
90° - 130°	0	0.0	0.0
90° - 150°	0	0.0	0.0
90° - 180°	0	0.0	0.0
0° - 180°	4831	100.0	100.0

LED: One Lithonia Way, Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

Constant Lumen Management

Enabled by the embedded nLight control, the TLX 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.





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