

## **FEATURES & SPECIFICATIONS**

**INTENDED USE** — The T Series LED combines digital lighting and control technologies with a highperformance 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.** <u>Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.</u>

**CONSTRUCTION** — Housing formed from cold-rolled steel. Polyester powder-paint after fabrication option available.

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. 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.

**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.



All dimensions are inches (centimeters) unless otherwise noted.

Catalog

## **\*\*** 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<sup>®</sup> 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 <u>www.acuitybrands.com/aplus</u>.

\*See ordering tree for details

# 2TL 2X4 Recessed LED Lighting

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. Example: 2TL4 40L RW													
2TL4													
Series	Lumens <sup>1</sup>	Door	Lens	Voltage									
2TL4 Recessed LED 2x4	30L 3000 lumens   40L 4000 lumens   48L 4800 lumens   60L 6000 lumens   72L 7200 lumens	FW Flush aluminum, white RW Regressed aluminum, white	A12#12 pattern acrylicA19#19 pattern acrylic, 0.156" thickMWSMatte white. 0.40" thickMPLMicro prismSWLSatin white	(blank) MVOLT (120-277V) 347 347V <sup>2</sup>									

Driver		Color ter	nperature	Control		Options	
EZ1 EZB GZ1	eldoLED dims to 1% (0-10 volt dimming) eldoLED dims to 0.1% (0-10 volt dimming) Dims to 1% (0-10V dimming) <sup>3</sup>	LP830 LP835 LP840 LP850	3000 K 3500 K 4000 K 5000 K	(blank) N80 N80EMG	No controls nLight with 80% (L80) lumen management nLight with 80% (L80) lumen management for use with generator supply EM power	EL7L EL14L	700 nominal lumen battery pack (Noncompliant with CA T20) 1400 nominal lumen battery pack (Noncompliant with CA T20)
GZ10 EDB SLD	Dims to 10% (0-10V dimming) <sup>3</sup> eldoLED DALI <sup>4</sup> Step-level dimming <sup>4</sup>	LP850 5000 K N100 N100EMG			nLight without lumen management nLight without lumen management for use with generator supply EM power	E10WLCP CP	EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS
5-0						BAA PAF	Chicago plenum⁴ Buy America(n) Act Compliant Paint after fabrication

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

No	tes
1	A

- PWS1846, PWS1856LV, or PWS1846 PWSLV.

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								

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.

Performance based on standard #12 pattern acrylic lens.

## **PHOTOMETRICS**

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

18( [		7						Coe	efficie	ents d	of Ut	ilizat	ion						
		1				pf				2	20%								
		90°	CF	9 Sumn	nary	рс		80%			70%		:	50%		Zon	al Lume	n Summa	ry
N		- 80°		0°	90	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%	Zone	Lumens	% Lamp	% Fixture
400			0°	2239	2239	0	119	119	119	116	116	116	111	111	111	0° - 30°	1713	35.2	35.2
		1	5°	2234	2231	1	110	106	102	103	100	97	99	96	94	0° - 40°	2710	55.7	55.7
800	$T \setminus X \times X$	J60°	15°	2163	2144	2	101	94	88	92	86	81	88	84	80	0° - 60°	4192	86.2	86.2
000	ILXX	]	25°	1990	1933	3	93	84	76	82	75	70	79	73	69	0° - 90°	4865	100.0	100.0
1200	$+1 \setminus \mathbb{X} \times$	1	35°	1661	1569	<del>م</del> 4	86	75	67	74	66	61	71	65	60	90° - 120°	0	0.0	0.0
1200		۲	45°	1174	1109		80	68	60	67	59	53	65	58	53	90° - 130°	0	0.0	0.0
1600			55°	717	668	<b>6</b>	74	62	53	61	53	47	59	52	47	90° - 150°	0	0.0	0.0
1000	XXX	1	65°	403	370	7	69	56	48	56	48	42	54	47	42	90° - 180°	0	0.0	0.0
2000		40°	75°	228	240	8	64	52	44	51	43	38	50	43	38	0° - 180°	4865	100.0	100.0
		4	85°	97	108	9	60	48	40	47	40	35	46	39	34				
0°	20°		90	0	0	10	57	44	37	44	37	32	43	36	32				
-	<b> 0°</b> 90°																		

INPUT

POWER

54W 50

### **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.

