

FEATURES & SPECIFICATIONS

INTENDED USE — The STL combines digital LED lighting and controls technologies with high-performance optical design to offer the most advanced surface-mount luminaire for general ambient lighting applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable.

CONSTRUCTION — Housing is roll formed from code-gauge steel.

Impact modified linear-faceted refractor with light diffusing film. Refractor attaches to die cast ends by simple hook and pin design with controlled tension provided by sonically welded end plate, providing secure installation and easy maintenance.

Decorative die-cast end caps provide added durability.

Finish: All metal parts are post-painted in white polyester powder coat for smooth, finished edges and uniform light distribution. Natural aluminum finish available on end caps (see Options).

Injection-molded plastic light traps prevent light leaks between shielding and end plates and centers diffuser on channel.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to vertical and horizontal work surfaces, rendering interior space, objects and occupants in a more balanced luminous environment. Light distribution is carefully controlled at high angles, providing just enough luminous flux to create the volumetric effect.

Angled mounting surface combined with crescent-shape linear faceted refractor system obscures and integrates individual LED images and uniformly washes fixture surface with light.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. STL is rated to deliver L90 performance at 60,000 hours. The LEDs have a CRI of 82.

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

LISTINGS — CSA certified to meet U.S. 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.

Patents pending. Damp listed.

WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Catalog Number
Notes
Type



Surface Volumetric

STL2



2'
LED



INDUSTRY RECOGNITION/AWARDS



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.

ORDERING INFORMATION

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

Example: STL2 20L EZ1 LP840

STL2								
Series	Lumens ¹	Voltage	Driver	Color temperature	Control	Options	Finish ⁶	
STL2 2' surface volumetric LED	20L 40L	(blank) MVOLT (120-277) 347 347V ²	EZ1 eldoLED dims to 1%, 0-10V EZB eldoLED dims to dark, 0-10V SLD Step-level dimming ³ EXA1 Dims to 1%, XPoint wireless enabled ^{3,4} EXAB Dims to dark, XPoint wireless enabled ^{3,4}	LP830 3000K LP835 3500K LP840 4000K LP850 5000K	N80 nLight with 80% (L80) lumen management N80EMG nLight with 80% (L80) lumen management for use with generator supply EM power N100 nLight without lumen management N100EMG nLight without lumen management for use with generator supply EM power LSXRHL Sensor Switch® fixture mount sensor with High/Low occupancy operation ⁵ LSXR10 Sensor Switch® fixture mount sensor with On/Off occupancy operation	SC1 Surface conduit end cap provisions for one endcap SC2 Surface conduit end cap provisions for both end caps	(blank) White DNA Natural aluminum	

Accessories: Order as separate catalog number.	
STCR	Continuous row connector (see mounting data)
STACG__	ST adjustable aircraft cable gripper suspension kit (specify length as 36 or 72 inches) (specify ceiling type F1 or F2 - see mounting data)
STACGF__	ST adjustable aircraft cable gripper with power feed (specify length as 36 or 72 inches) (specify ceiling type F1 or F2 - see mounting data)
STACGE__	ST adjustable aircraft cable gripper with emergency power feed (specify length as 36 or 72 inches) (specify ceiling type F1 or F2 - see mounting data)

Notes

- 1 Approximate lumen output.
- 2 Not available with SLD driver.
- 3 Not available with controls options
- 4 Gateway not included. Requires on-site commissioning. Visit www.lightingcontrols.com/XPointWireless for more information.
- 5 Requires SC1 option. Dims to approximately 10% light output when unoccupied. See sensor details on next page.
- 6 For additional paint finishes refer to: [Architectural Colors](#).

STL2 LED Surface Volumetric

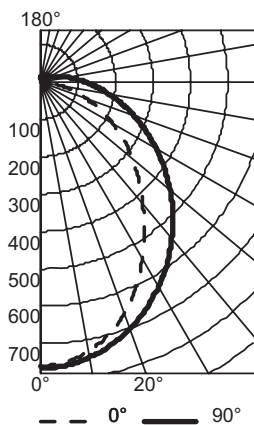
Performance Data			
Lumen Package	Input Watts ¹	Lumens	LPW
20L LP830	20	1960	98.0
20L LP835	20	2058	102.9
20L LP840	20	2156	107.8
20L LP850	20	2211	110.6
40L LP830	39	3443	88.3
40L LP835	39	3616	92.7
40L LP840	39	3796	97.3
40L LP850	39	3890	99.7



Sensor Switch LSXR Sensor	
Lens type:	10 - Low Mount 360°
Dimming:	HL - High/Low Occupancy operation
Min Dim Level:	3V - approximately 10% light output when unoccupied
Time Delay:	5M - 5 minutes

PHOTOMETRICS

STL2 20L EZ1 LP840, 2156 delivered lumens, test no. LTL25686, tested in accordance to IESNA LM-79.



CP Summary

	0°	90°
0°	762	762
5°	750	761
15°	700	728
25°	604	669
35°	483	591
45°	371	499
55°	272	404
65°	174	310
75°	85	223
85°	21	150
90°	1	119

Coefficients of Utilization

pf	20%									50%								
	80%			70%			50%			80%			70%			50%		
pc	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%	pw	70%	50%	30%	50%	30%	10%	
0	117	117	117	114	114	114	107	107	107	107	107	107	107	107	107	107	107	
1	106	101	96	98	94	90	93	89	86	86	86	86	86	86	86	86	86	
2	96	88	81	85	79	73	81	75	71	71	71	71	71	71	71	71	71	
3	88	77	69	75	67	61	71	65	59	59	59	59	59	59	59	59	59	
4	81	69	60	67	59	52	63	56	51	51	51	51	51	51	51	51	51	
5	74	61	52	60	51	45	57	50	44	44	44	44	44	44	44	44	44	
6	69	55	46	54	46	40	52	44	39	39	39	39	39	39	39	39	39	
7	64	50	41	49	41	35	47	40	34	34	34	34	34	34	34	34	34	
8	59	46	37	45	37	31	43	36	31	31	31	31	31	31	31	31	31	
9	55	42	34	41	34	28	40	33	28	28	28	28	28	28	28	28	28	
10	52	39	31	38	31	26	37	30	25	25	25	25	25	25	25	25	25	

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	566	26.2	26.2
0° - 40°	901	41.8	41.8
0° - 60°	1529	70.9	70.9
0° - 90°	2013	93.4	93.4
90° - 120°	94	4.4	4.4
90° - 130°	110	5.1	5.1
90° - 150°	132	6.1	6.1
90° - 180°	143	6.6	6.6
0° - 180°	2156	100.0	100.0

MOUNTING DATA

Suspension Kit Ceiling Types: F1 for use with most T-bar and screw slot grid ceiling applications. Designed for on-grid and off-grid installations.

F2 for use with recessed or surface-mount horizontal J-box applications.

For unit or row installation; surface or suspend mounting.

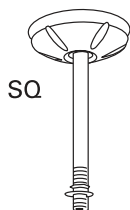
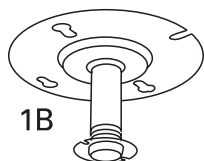
Individual installation — One double-stem or two single-stem hangers required.

For aircraft cable, one STACG_, STACGF_ or STACGE_ required for each suspension point.

Row installation — Order one (1) STCR accessory per fixture for continuous row applications. Not required for last fixture in row. One hanger per fixture plus one per row required.

Note: 2' configurations with emergency option cannot be stem mounted.

See ACCESSORIES below for hanging devices.



DIMENSIONS

All dimensions are inches (centimeters) unless otherwise noted.

Specifications

Length: 22-7/8 (58.1)

Width: 10-1/8 (25.7)

Depth: 3-7/8 (9.8)

Weight: 8LB

A = 1/4 x 1/2 (.635 x 1.27) Oval Hole

B = 11/16 (1.75) Dia. K.O.

C = 7/8 (2.22) Dia. K.O.

