LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

ST SERIES

Surface Volumetric

STL4



4'

LED

C.E.C. TITLE 20 COMPLIANT | A+ CAPABLE | DLC QPL LISTED | nLIGHT ENABLED

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

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.

INDUSTRY RECOGNITION/AWARDS

NGL'12
2012 BEST IN CLASS

pia11
2011 ARCHITECTURAL SSL PRODUCT INNOVATION AWARD

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 www.acuitybrands.com/aplus.

*See ordering tree for details

STL4 LED Surface Volumetric

A+ Capable options indicated by this color background.

ORDERING INFORMATION

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

Example: STL4 20L EZ1 LP840

STL4							
Series	**Lumens**[1]	**Voltage**	**Driver**	**Color temperature**	**Control**	**Options**	**Finish**[6]
STL4 4' surface volumetric LED	20L 30L 40L 48L 60L	(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	(blank) No controls 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	EL7L 700 nominal lumen battery pack (non-CEC compliant) EL14L 1400 nominal lumen battery pack (non-CEC compliant) E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant 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 EL battery packs or 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.

Performance Data

Lumen Package	Input Watts[1]	Lumens	LPW
30L LP830	26.7	2904	108.8
30L LP835	26.7	3049	114.2
30L LP840	26.7	3195	119.7
30L LP850	26.7	3282	122.9
40L LP830	34.9	3688	105.7
40L LP835	34.9	3834	109.9
40L LP840	34.9	3979	114.0
40L LP850	34.9	4124	118.2
48L LP830	45.2	4615	102.1
48L LP835	45.2	4850	107.3
48L LP840	45.2	5088	112.6
48L LP850	45.2	5184	114.7
60L LP830	53.2	5294	99.5
60L LP835	53.2	5559	104.5
60L LP840	53.2	5811	109.2
60L LP850	53.2	5954	111.9

How to Calculate Delivered Lumens in Emergency Mode
Use the formula below to determine 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.



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

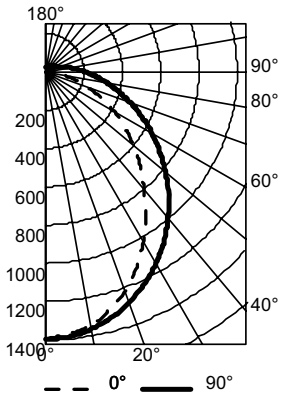
LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 www.lithonia.com

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STL4 LED Surface Volumetric

PHOTOMETRICS

STL4 40L EZ1 LP840, 3979 delivered lumens, test no. LTL25690, tested in accordance to IESNA LM-79.



CP Summary

	0°	90
0°	1395	1395
5°	1374	1389
15°	1289	1329
25°	1126	1221
35°	911	1080
45°	699	910
55°	507	729
65°	322	553
75°	158	393
85°	38	260
90	3	207

Coefficients of Utilization

	pf			20%								
	pc		80%			70%			50%		
	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR	0	117	117	117	114	114	114	107	107	107
	1	106	101	97	98	94	90	93	89	86
	2	97	88	81	86	79	74	81	76	71
	3	88	77	69	75	68	61	71	65	60
	4	81	69	60	67	59	52	63	56	51
	5	74	61	52	60	52	45	57	50	44
	6	69	55	46	54	46	40	52	44	39
	7	64	50	42	49	41	35	47	40	34
	8	59	46	38	45	37	31	43	36	31
	9	56	42	34	41	34	28	40	33	28
	10	52	39	31	38	31	26	37	30	25

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1043	26.2	26.2
0° - 40°	1668	41.9	41.9
0° - 60°	2829	71.1	71.1
0° - 90°	3703	93.1	93.1
90° - 120°	175	4.4	4.4
90° - 130°	207	5.2	5.2
90° - 150°	252	6.3	6.3
90° - 180°	276	6.9	6.9
0° - 180°	3979	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.

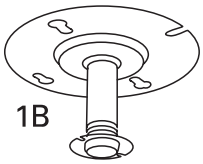
Individual installation — One double-stem or two single-stem hangers required.

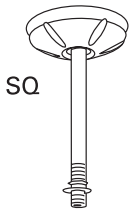
For aircraft cable, one STACG_, STACGF_, or STACGE_ required for each suspension point.

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: 46-3/8 (117.8)

Width: 10-1/8 (25.7)

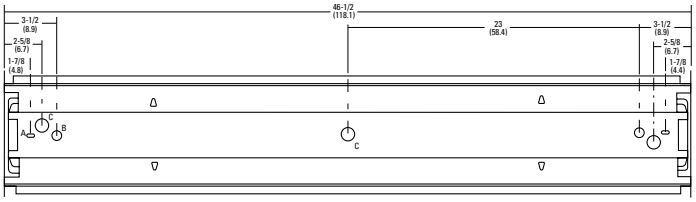
Depth: 3-7/8 (9.8)

Weight: 13LB

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.



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