

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The Surface Volumetric™ series is designed for surface or suspend-mount applications that require the appealing aesthetics and high performance of volumetric lighting. Ideal for offices, workrooms, retail and other commercial applications. Available in 2 or 3-lamp, T5 or T8 configurations, this series provides tremendous design flexibility. **Certain airborne contaminants can diminish integrity of acrylic.** [Click here for Acrylic Environmental Compatibility table for suitable uses.](#)

**CONSTRUCTION** — Housing is roll formed from code-gauge steel. Impact resistant 25% DR acrylic diffuser 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. Crescent-shape linear faceted refractor provides uniform light distribution and high angle brightness control.

**ELECTRICAL** — Thermally-protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA certified ballast is standard. Luminaire is suitable for damp locations. AWM, TFN or THHN wire used throughout, rated for required temperatures. UL/CSA listed ballast disconnect with strain relief and leads provided standard.

**LISTINGS** — UL Listed to U.S. and Canadian safety standards.

**Patents pending.**

**WARRANTY** — 1-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

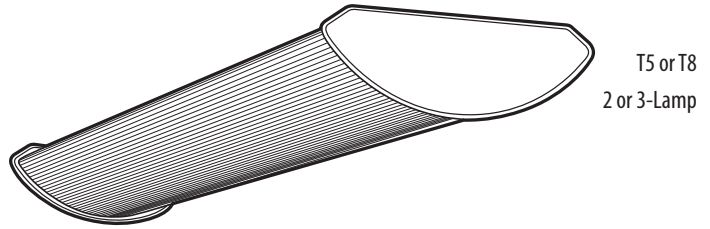
Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Catalog Number
Notes
Type



Surface Volumetric

# ST5-ST8



T5 or T8  
2 or 3-Lamp

### Specifications

Length - T8:	24 (61.0), 48 (121.9) or 96 (243.8)
Length - T5:	22-7/8 (58.1), 46-3/8 (117.8) or 92-5/8 (235.3)
Width:	10-1/8 (25.7)
Depth:	3-7/8 (9.8)

All dimensions are inches (centimeters) unless otherwise noted.

### ORDERING INFORMATION

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

**Example:** ST5 2 14T45 MVOLT GEB10PS

Series	Number of lamps	Lamp type	Voltage	Ballast	Options	Finish <sup>7,8</sup>
ST5 T5, 2 or 3-lamp	2	17 17W T8 (24")	120	GEB10IS .88 ballast factor, instant start <sup>3</sup>	1/3 One, three-lamp ballast	(blank) White
ST8 T8, 2 or 3-lamp	3	32 32W T8 (48")	277	GEB9S .95 ballast factor <sup>4</sup>	EL Emergency battery pack (nominal 300 lumens) <sup>5</sup>	DNA Natural aluminum
For tandem double-length unit, add prefix "T". Ex: TST8	Not included.	14T5 14W T5 (22-1/2") <sup>1</sup>	347	GEB9SS .95 ballast factor, step dimming <sup>4</sup>	EL14 Emergency battery pack (nominal 1400 lumens) <sup>5</sup>	
		24T5HO 24T5HO (22-1/2") <sup>2</sup>	MVOLT	GEB11S 1.15 ballast factor, step dimming <sup>4</sup>	LP___ Lamped; specify lamp type and color	
		28T5 28W T5 (46-1/2")		GEB11SS 1.15 ballast factor, step dimming <sup>4</sup>	GLR Internal fast-blow fuse <sup>6</sup>	
		54T5HO 54W T5HO (46-1/2") <sup>2</sup>		GEB10PS 1.0 ballast factor, program start	GMF Internal slow-blow fuse <sup>6</sup>	
					CSA Listed and labeled to comply with Canadian Standards	
					SSR Specular silver interior finish (95% reflective)	

### 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). Can also be used with fixtures requiring two ballasts.

### Notes

- Must use 1/3 ballast option.
- Not available in 3-lamp configuration.
- Only available with T8 lamp types.
- Only available with T5 lamp types.
- Not available with 2' configuration.
- Must specify voltage.
- Die-cast end plates and light trap.
- For additional paint finishes refer to: [Architectural Colors](#).

ST5-ST8 T5/T8 Surface Volumetric

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.

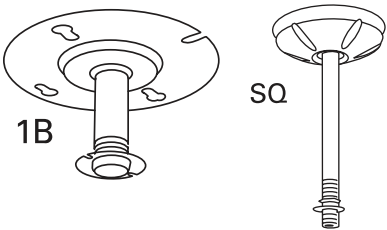
For unit or row installation; surface or suspend mounting. Stem mounting not available on TST5 or TST8.

Individual installation — (2' or 4' only) 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.

See ACCESSORIES below for hanging devices.

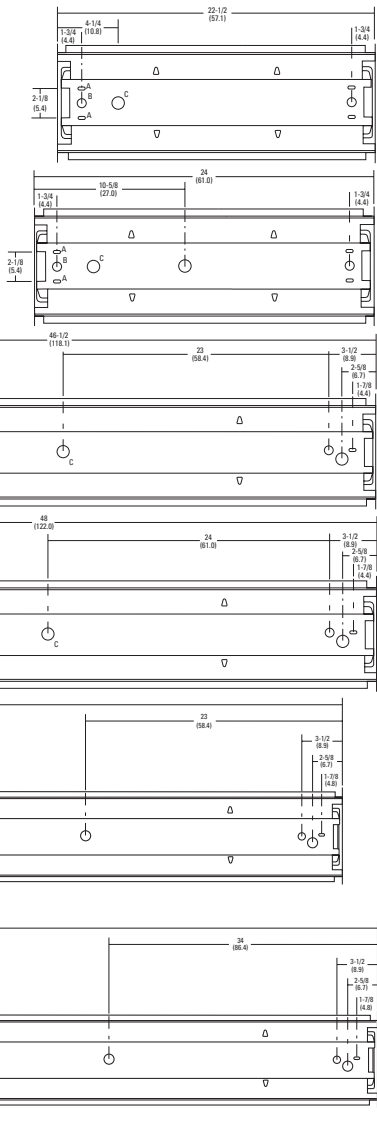


Notes

1 2' configurations with emergency option cannot be stem mounted.

DIMENSIONS

- 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.
- D = 11/16 (1.74) Dia. K.O.
- E = 2 (5.08) Dia. K.O. and 7/8 (2.22) Dia. K.O.
- G = 1-1/8 (2.85) Dia. K.O.



PHOTOMETRICS

Calculated using the zonal cavity method in accordance with IESNA LM41 procedure. Floor reflectances are 20%. Lamp configurations shown are typical. Full photometric data on these and other configurations available upon request.

ST8 2 32 MVOLT GEB10IS — test number LTL20265

ZONAL LUMEN SUMMARY			
Zone	Lumens	% Lamp	% Luminaire
0-30	988.5	17.3%	21.1%
0-40	1,631.3	28.6%	34.8%
0-60	2,940.6	51.6%	62.8%
60-90	1,201.5	21.1%	25.6%
70-100	862.8	15.1%	18.4%
90-120	383.1	6.7%	8.2%
0-90	4,142.1	72.7%	88.4%
90-180	543.3	9.5%	11.6%
0-180	4,685.5	82.2%	100%

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%												
RCC %:	80				70				50			
	70	50	30	0	70	50	30	0	50	30	20	0
RW %:	.96	.96	.96	.96	.92	.92	.92	.73	.86	.86	.86	.73
RCR: 0	.86	.81	.77	.73	.82	.78	.74	.58	.73	.70	.67	.57
1	.77	.70	.64	.58	.74	.67	.62	.48	.63	.58	.54	.47
2	.70	.61	.54	.48	.67	.59	.52	.40	.55	.49	.45	.39
3	.64	.54	.46	.40	.61	.52	.45	.34	.49	.43	.38	.33
4	.59	.48	.40	.34	.56	.46	.39	.30	.43	.37	.33	.28
5	.54	.43	.35	.30	.52	.42	.34	.26	.39	.33	.28	.24
6	.50	.39	.31	.26	.48	.38	.31	.23	.35	.29	.25	.21
7	.47	.35	.28	.23	.45	.34	.28	.20	.32	.26	.22	.19
8	.43	.32	.25	.21	.42	.31	.25	.18	.30	.24	.20	.17
9	.41	.30	.23	.19	.39	.29	.23	.17	.28	.21	.18	.15
10												

ST5 2 28T5 MVOLT GEB10PS — test number LTL20253

ZONAL LUMEN SUMMARY			
Zone	Lumens	% Lamp	% Luminaire
0-30	1,066.6	20.5%	22.8%
0-40	1,749.5	33.6%	37.5%
0-60	3,105.7	59.7%	66.5%
60-90	1,157.5	22.3%	24.8%
70-100	785.3	15.1%	16.8%
90-120	290.8	5.6%	6.2%
0-90	4,263.1	82%	91.3%
90-180	406.7	7.8%	8.7%
0-180	4,669.8	89.8%	100%

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%												
RCC %:	80				70				50			
	70	50	30	0	70	50	30	0	50	30	20	0
RW %:	1.05	1.05	1.05	1.05	1.02	1.02	1.02	.82	.95	.95	.95	.82
RCR: 0	.94	.89	.85	.81	.91	.87	.83	.66	.81	.78	.75	.65
1	.85	.77	.71	.65	.82	.75	.69	.55	.70	.65	.61	.54
2	.78	.68	.60	.54	.75	.66	.58	.46	.62	.56	.51	.45
3	.71	.60	.51	.45	.68	.58	.50	.39	.55	.48	.43	.38
4	.65	.53	.45	.39	.63	.52	.44	.34	.49	.42	.37	.33
5	.60	.48	.40	.34	.58	.47	.39	.30	.44	.37	.32	.28
6	.56	.43	.35	.30	.54	.42	.35	.27	.40	.33	.29	.25
7	.52	.39	.32	.26	.50	.38	.31	.24	.37	.30	.25	.22
8	.48	.36	.29	.24	.47	.35	.28	.22	.34	.27	.23	.20
9	.45	.33	.26	.21	.44	.33	.26	.20	.31	.25	.21	.18
10												