

Highly efficient with balanced illumination and simple to use.

ELS1GFSVA232
ENERGYSMART
SILVERESCENT



1' X 4' RECESSED FLUORESCENT
SPECULAR SILVER REFLECTOR
STATIC ONLY
2-LAMP T8

Silverescent luminaires (ELS) are designed to conserve energy. The wide distribution and the 95% reflective silver laminate specular reflector in the 2 x 4, 2 lamp luminaire, provides the same lighting level as a 10 year old 2 x 4, 4 lamp luminaire with as little as 30% of the energy consumption.

Project: _____
Location: _____
Catalog No: _____
Fixture Type: _____
Mfg: _____ Lamps: _____ Qty: _____
Notes: _____

Ordering Guide

Explanation of Catalog Number Example: ELS1GFSVA232120SO

Energy Smart Silverescent	Static	Fixture Width	Ceiling Type	Lens Frame	Lens/ Shielding Type	Lamp Qty	Lamp/ Fixture Length	Voltage	Ballast Type	Options
EL	S	1	G		VA	2	32			
Recessed Fluorescent Troffer Silver Laminate	S = Static	1 = 1' x 4'	G = Grid (Lay-in T-bar)	FS = Flat Steel Frame RA = Regressed Aluminum Frame	VA (Virgin Acrylic) Standard (See Options and Consult Factory)	2 = 2 Lamps	32 = T8 (Nominal 48")	UNV = 120/277V 120 = 120V 277 = 277V 347 = 347V	<20THD SO * <10THD RO ** 2 Lamp Elect. T8 PS — LOL T8 Dimming * Instant Start Standard **Rapid Start Standard	Add appropriate suffix to catalog No.

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Features

- Efficiency 80%
- 95% reflective silver laminate specular reflector protected with strippable film.
- Shallow 4" depth.
- One-piece body.
- Flush steel full-size lens frame.
- Regressed extruded aluminum lens frame (optional).
- Cam-action latches.
- Twin knockout access plate for easy closed lens frame wiring.
- Luminaire side rails with rolled-over edges for maximum safety

Specifications

Performance: In an installation of 2-lamp 32W luminaires in a room cavity ratio of 1, with reflectance of 80% ceiling, 50% walls, 20% floor, the C.U. shall not be less than .86. To reduce glare the average luminance at 65 shall not exceed 2674 candelas per square meter. To control veiling reflections, luminaire output in the 30°–90° zone shall be not less than 60%.

Materials: Chassis parts are die-formed code gauge cold rolled steel. Lens frames—flat full-size steel frame, (RA) regressed full-sized aluminum frame.

Reflector: Silver metallized film with 95% reflective (94% minimum) laminated to steel by a thermoset cross linked adhesive that eliminates delamination. Surface is protected during handling by strippable plastic film.

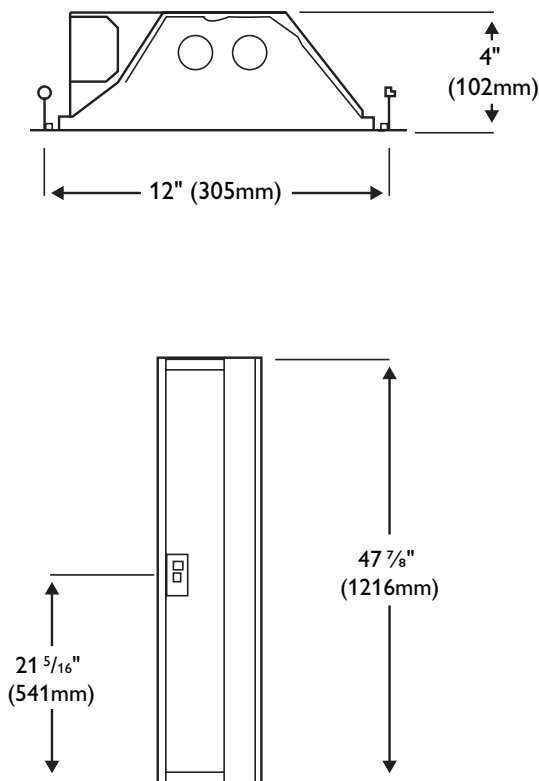
Lens: Extruded virgin acrylic $\frac{3}{16}$ " square based female cones, running 45° to the panel edge, 0.095" nominal thickness (similar to pattern 12).

Electrical: Rapid start HPF, thermally protected class "P" ballast C.B.M. certified by E.T.L. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

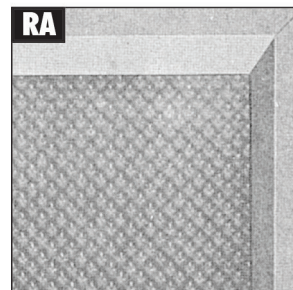
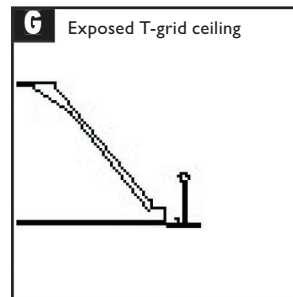
Labels: Listed by CSA.

This product may have a mercury containing lamp. Manage in accord with Disposal Laws. See: www.lamprecycle.org

Dimensions



Mounting Methods



Hemmed edge for safe handling

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Performance

Report Number: LSC6790

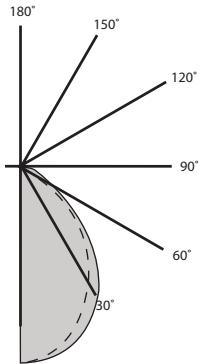
Catalog No: ELS1GFSVA232120SO

Lamp Type: 2 F32T8/TL841

Lumens per Lamp: 3000

Luminaire Input Watts: 55.1

Total Efficiency: 80.0%



Candela Distribution

Angle	Along	22.5	45.0	67.5	Across	Output Lumens
0	2719	2719	2719	2719	2719	258
5	2714	2702	2693	2678	2669	
10	2660	2639	2609	2570	2534	
15	2584	2544	2463	2394	2352	
20	2458	2388	2271	2170	2120	
25	2305	2207	2054	1955	1907	954
30	2105	1993	1836	1737	1698	
35	1844	1740	1606	1507	1473	
40	1552	1463	1349	1258	1208	
45	1240	1172	1075	969	926	
50	924	889	829	720	681	828
55	644	650	591	524	482	
60	457	449	405	381	365	
65	335	329	256	283	285	
70	261	233	171	220	230	
75	217	177	134	162	191	179
80	160	117	105	101	142	
85	75	59	54	39	59	
90	0	0	0	0	0	

Luminance Data in Candela / Sq. Meter

Angle	Along	45	Across
45	5926	5154	4443
55	3793	3495	2847
65	2674	2051	2289
75	2835	1747	2508
85	2919	2113	2315

Coefficients of Utilization

RC	80%				50%			30%			
RW	70	50	30	10	50	30	10	50	30	10	
RCR	Zonal Cavity Method Effective Floor Cavity Reflectance = .20										
Room Cavity Ratio	0	95	95	95	95	89	89	89	85	85	85
	1	89	86	83	81	81	79	77	78	76	75
	2	83	78	73	70	73	70	67	71	68	66
	3	77	70	65	61	67	63	59	65	61	58
	4	72	64	58	53	61	56	52	59	55	52
	5	66	58	51	47	55	50	46	54	49	46
	6	62	53	46	42	50	45	41	49	45	41
	7	57	48	42	38	46	41	37	45	40	37
	8	53	43	37	33	42	37	33	41	36	33
	9	49	40	34	29	38	33	29	37	32	29
10	46	36	30	26	35	30	26	34	29	26	

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1901	31.68	39.58
0-40	2912	48.54	60.64
0-60	4267	71.13	88.86
0-90	4802	80.05	100.00
40-90	1890	31.51	39.36
60-90	535	8.92	11.14
90-180	0	.00	.00
0-180	4802	80.05	100.00

Options/Accessories

Lenses/Shielding:

VB: Pattern 12 lens .125" nominal-Prismatic lens

VY: Pattern 12 lens .130" nominal-Prismatic lens

KA: Pattern 19 lens .156" nominal-Prismatic lens

AP: 1/2 x 1/2 x 1/2 parabolic louver silver acrylic

SA: 1 1/2 x 1 1/2 x 7/8 parabolic louver silver acrylic

Drywall Kit: For plaster frames,
order Cat. No.: **FK91X4**

Emergency Lighting System: SUFFIX: **O**
Emergency battery pack with charger
(90 minutes at 15% of lumens for 1 lamp)

Radio Interference Filter: 120, 277 or 347 volt,
50 or 60 Hz. SUFFIX: **R**

Ballast Options: For other ballast options, consult your
Philips Lighting representative.



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