

Highly efficient with balanced illumination and simple to use.

ELSGFSVA232
ENERGYSMART
SILVERESCENT



**2' 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: ELS2GFSVA232120SO

Energy Smart Silverescent	Static	Fixture Width	Ceiling Type	Lens Frame	Lens/ Shielding Type	Lamp Qty	Lamp/ Fixture Length	Voltage	Ballast Type	Options
EL	S	2	G		VA	2	32			
Recessed Fluorescent Troffer Silver Laminate Reflector	S = Static	1 = 2' 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 86.2%
- 95% reflective silver laminate specular reflector protected with strippable film.
- Easily removeable specular ballast cover.
- One-piece body 3 $\frac{3}{8}$ " deep.
- Ends of housing are formed inward for safer handling while installing troffer.
- Regressed extruded aluminum lens frame (optional).
- Cam-action latches.
- Flat steel lens frame with mitered corner details is the same size as the ceiling opening for a clean uniform appearance.
- Twin knockout access plate for easy closed lens frame wiring.
- Built-in Hold-Down clip.

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 .92. To reduce glare the average luminance at 65 shall not exceed 1448 candelas per square meter. To control veiling reflections, luminaire output in the 30°–90° zone shall be not less than 65%.

Materials: Chassis parts are die-formed code gauge cold rolled steel. Housing is embossed for added strength and rigidity with all edges rolled over for safe handling. Lens frames—flat full-size steel 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.

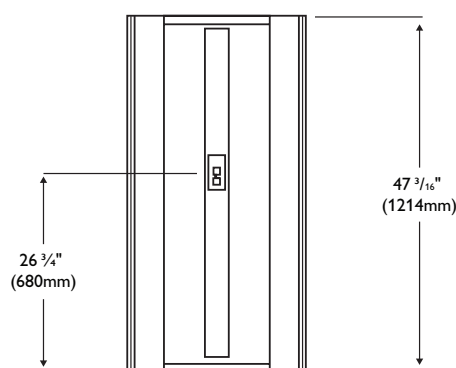
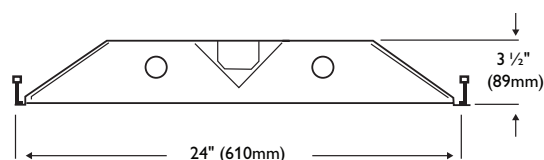
Lens: Extruded virgin acrylic $\frac{3}{16}$ " square based female cones, running 45° to the panel edge, 0.095" nominal thickness (similar to pattern 12).

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°.

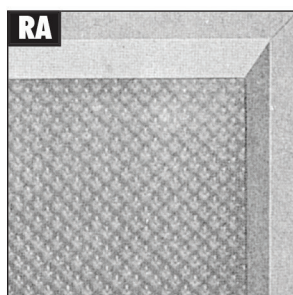
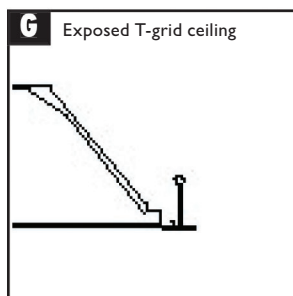
Labels: Listed by CSA.

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

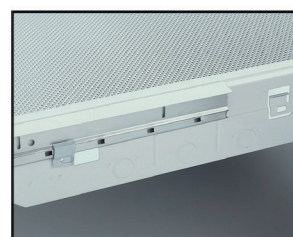
Dimensions



Mounting Methods



Hemmed edge for safe handling



End cap hold down clip

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Performance

Report Number: LSC5848

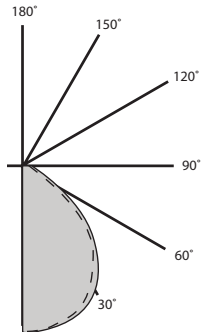
Catalog No: ELS2GFSVA232120SO

Lamp Type: 2 F32T8/TL835

Lumens per Lamp: 3050

Luminaire Input Watts: 55.6

Total Efficiency: 86.2%



Candela Distribution

Angle	Along	22.5	45.0	67.5	Across	Output Lumens
0	2390	2390	2390	2390	2390	230
5	2386	2395	2384	2373	2366	
10	2359	2365	2352	2335	2341	
15	2291	2306	2308	2293	2285	
20	2209	2209	2217	2224	2235	
25	2083	2084	2111	2139	2159	970
30	1908	1933	1981	2005	2022	
35	1702	1735	1797	1815	1808	
40	1455	1503	1559	1556	1557	
45	1194	1242	1295	1286	1254	
50	920	984	1034	1007	973	968
55	695	758	771	760	730	
60	528	549	526	527	529	
65	398	373	343	371	398	
70	308	265	221	265	308	
75	249	191	161	195	247	211
80	160	136	127	142	172	
85	71	79	74	71	84	
90	0	0	0	0	0	

Luminance Data in Candela / Sq. Meter

Angle	Along	45	Across
45	2585	2816	2726
55	1855	2065	1956
65	1442	1247	1448
75	1472	951	1468
85	1242	1307	1485

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	1.03	1.03	1.03	1.03	96	96	96	92	92	92		
	1	95	92	89	86	86	84	82	83	81	80		
	2	88	83	78	74	78	74	71	75	72	69		
	3	82	74	68	64	71	66	62	68	64	61		
	4	76	67	60	56	64	59	54	62	57	54		
	5	70	60	53	48	57	52	48	56	51	47		
	6	65	55	48	43	52	47	42	51	46	42		
	7	60	49	43	38	48	42	37	46	41	37		
	8	56	45	38	33	43	37	33	42	37	33		
	9	51	40	34	29	39	33	29	38	32	29		
10	48	37	30	26	35	30	26	35	29	25			

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1846	30.27	35.14
0-40	2947	48.31	56.08
0-60	4588	75.22	87.31
0-90	5255	86.15	100.00
40-90	2307	37.84	43.92
60-90	666	10.93	12.69
90-180	0	.00	.00
0-180	5255	86.15	100.00

Options/Accessories

Lenses/Shielding:

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

YY: 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.: **FK92X4**

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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