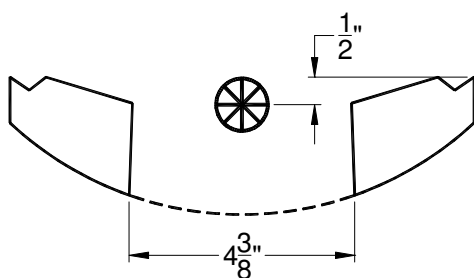
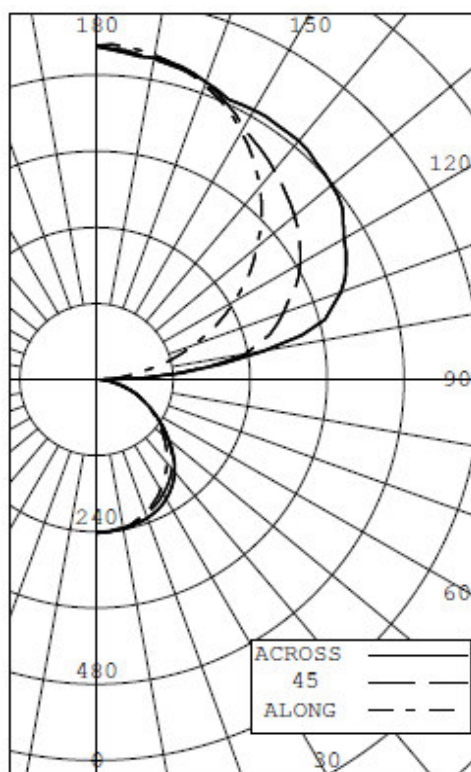




INDEPENDENT TEST LABORATORY REPORT No. 29703

FINELITE INC - 4 FT FLUORESCENT LUMINAIRE, CAT# S12-ID-DCO-1T8-91W-OPEN
WITH WHITE INTERIOR AND WHITE CURVED PLASTIC LENS
ONE SYLVANIA 32 WATT T8 LAMP, CAT# FO32/835/ECO. LUMEN RATING = 3100 LMS.
ONE SYLVANIA QHE 1X32T8/UNV ISN SC DRIVER OPERATING AT 120 VAC AND 29 WATTS



INTENSITY (CANDLEPOWER) SUMMARY						OUTPUT LUMENS
ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	242	242	242	242	242	
5	241	240	240	242	241	23
15	231	232	233	237	237	66
25	213	215	219	226	227	101
35	186	190	197	204	206	123
45	154	159	166	170	169	126
55	118	123	126	126	124	111
65	83	85	84	83	82	83
75	48	46	46	47	47	50
85	12	13	16	19	20	19
90	1	7	12	16	17	
95	22	95	124	132	132	115
105	114	182	280	345	370	271
115	206	242	342	405	430	323
125	291	301	387	448	469	338
135	364	366	418	468	486	324
145	426	429	446	478	491	283
155	476	473	482	486	489	222
165	509	504	507	510	511	143
175	527	523	521	517	517	50
180	525	525	525	525	525	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	190	6.14	6.87
0-40	313	10.10	11.30
0-60	550	17.73	19.84
0-90	701	22.61	25.29
40-90	388	12.51	13.99
60-90	151	4.87	5.45
90-180	2070	66.78	74.71
0-180	2771	89.39	100.00

** EFFICIENCY: 89.4% **

LUMINOUS LENGTH: 40.000 INS
WIDTH: 4.380 INS

LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	1929	2086	2124
55	1827	1948	1918
65	1742	1767	1730
75	1655	1561	1623
85	1240	1627	2000

CERTIFIED BY:

Ryder Trumey

DATE:
OCT 18, 2011

PREPARED FOR:

FINELITE INC
UNION CITY, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

LIGHTING SCIENCES, INC.
7826 E. EVANS RD.
SCOTTSDALE, AZ, USA 85260

INDEPENDENT TEST LABORATORY REPORT No. 29703

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INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	242	242	242	242	242	242	
5	241	240	240	242	241	241	23
10	237	237	237	240	240	238	
15	231	232	233	237	237	234	66
20	223	224	227	232	232	228	
25	213	215	219	226	227	220	101
30	200	203	209	216	218	209	
35	186	190	197	204	206	197	123
40	171	175	182	189	189	182	
45	154	159	166	170	169	164	126
50	137	141	147	148	146	144	
55	118	123	126	126	124	124	111
60	101	104	104	104	102	103	
65	83	85	84	83	82	84	83
70	67	65	64	64	64	65	
75	48	46	46	47	47	47	50
80	30	28	30	31	32	30	
85	12	13	16	19	20	16	19
90	1	7	12	16	17	11	
95	22	95	124	132	132	107	115
100	65	141	235	264	265	201	
105	114	182	280	345	370	262	271
110	162	214	311	382	406	298	
115	206	242	342	405	430	327	323
120	249	271	368	426	447	353	
125	291	301	387	448	469	379	338
130	328	332	404	459	479	400	
135	364	366	418	468	486	419	324
140	397	400	432	474	491	437	
145	426	429	446	478	491	453	283
150	453	454	460	479	492	466	
155	476	473	482	486	489	481	222
160	494	489	498	499	500	496	
165	509	504	507	510	511	508	143
170	520	515	514	513	515	515	
175	527	523	521	517	517	521	50
180	525	525	525	525	525	525	

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AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG		22.5		45		67.5		ACROSS
0	2137(	623)	2137(	623)	2137(	623)	2137(	623)	2137(623)
30	2048(	597)	2083(	608)	2141(	624)	2216(	646)	2224(649)
40	1974(	576)	2022(	590)	2109(	615)	2187(	638)	2186(638)
45	1929(	563)	1988(	580)	2086(	608)	2134(	623)	2124(620)
50	1880(	548)	1949(	568)	2017(	588)	2040(	595)	2015(588)
55	1827(	533)	1895(	553)	1948(	568)	1942(	566)	1918(559)
60	1780(	519)	1842(	537)	1850(	540)	1840(	537)	1811(528)
65	1742(	508)	1773(	517)	1767(	515)	1746(	509)	1730(505)
70	1720(	502)	1691(	493)	1671(	487)	1656(	483)	1649(481)
75	1655(	483)	1594(	465)	1561(	455)	1616(	471)	1623(473)
80	1503(438)	1453(424)	1509(440)	1598(466)	1619(472)
85	1240(362)	1317(384)	1627(475)	1914(558)	2000(583)

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																									
0	1.001	1.001	1.001	1.00	0.910	0.910	0.910	0.91	0.810	0.810	0.810	0.81	0.620	0.620	0.62	0.450	0.450	0.45	0.300	0.300	0.30	0.23			
1	0.920	0.870	0.830	0.81	0.830	0.790	0.760	0.73	0.730	0.700	0.680	0.64	0.550	0.530	0.51	0.400	0.390	0.38	0.260	0.260	0.25	0.19			
2	0.830	0.760	0.700	0.65	0.750	0.690	0.640	0.59	0.670	0.610	0.570	0.53	0.480	0.450	0.42	0.350	0.330	0.32	0.230	0.220	0.21	0.16			
3	0.760	0.670	0.600	0.54	0.690	0.610	0.540	0.50	0.610	0.540	0.490	0.45	0.420	0.390	0.36	0.310	0.290	0.27	0.210	0.190	0.18	0.14			
4	0.700	0.590	0.510	0.46	0.630	0.530	0.470	0.42	0.560	0.480	0.420	0.38	0.370	0.330	0.30	0.280	0.250	0.23	0.190	0.170	0.16	0.12			
5	0.640	0.510	0.440	0.39	0.570	0.470	0.400	0.35	0.510	0.420	0.360	0.32	0.330	0.290	0.26	0.250	0.220	0.20	0.160	0.150	0.14	0.10			
6	0.590	0.470	0.390	0.33	0.530	0.420	0.350	0.30	0.470	0.380	0.320	0.28	0.300	0.250	0.22	0.220	0.190	0.17	0.150	0.130	0.12	0.09			
7	0.540	0.420	0.340	0.29	0.480	0.380	0.310	0.26	0.430	0.340	0.280	0.24	0.270	0.220	0.19	0.200	0.170	0.15	0.130	0.120	0.10	0.08			
8	0.490	0.370	0.300	0.25	0.450	0.340	0.270	0.23	0.400	0.300	0.250	0.21	0.240	0.200	0.17	0.180	0.150	0.13	0.120	0.100	0.09	0.07			
9	0.460	0.340	0.260	0.21	0.410	0.310	0.240	0.20	0.370	0.270	0.220	0.18	0.220	0.170	0.14	0.160	0.130	0.11	0.110	0.090	0.08	0.06			
10	0.420	0.310	0.230	0.19	0.380	0.280	0.210	0.17	0.340	0.250	0.200	0.16	0.200	0.160	0.13	0.150	0.120	0.10	0.100	0.080	0.07	0.05			

LUMINAIRE INPUT WATTS 29.0

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.