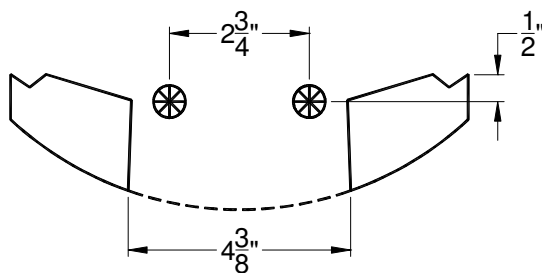
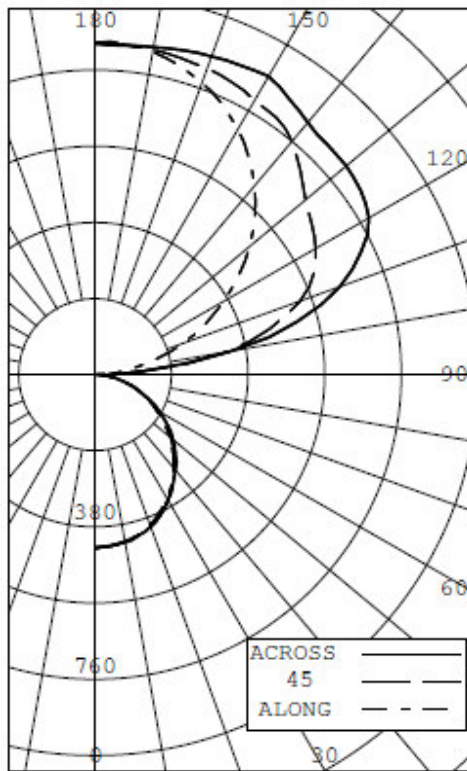




## INDEPENDENT TEST LABORATORY REPORT No. 29706

FINELITE INC - 4 FT FLUORESCENT LUMINAIRE, CAT# S12-ID-DCO-2T5-91W-OPEN  
WITH WHITE INTERIOR AND WHITE CURVED PLASTIC LENS  
TWO SYLVANIA 28 WATT T5 LAMPS, CAT# FP28/835/ECO. LUMEN RATING = 2600 LMS.  
ONE QHE2X28T5/UNV PSN DRIVER OPERATING AT 120 VAC AND 61.5 WATTS



INTENSITY (CANDLEPOWER) SUMMARY						OUTPUT LUMENS
ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	432	432	432	432	432	
5	431	430	429	432	430	42
15	414	414	415	418	417	117
25	380	382	384	387	386	176
35	332	334	335	336	336	209
45	273	277	276	281	282	214
55	208	211	213	218	220	191
65	145	144	146	149	150	145
75	83	80	81	84	84	87
85	22	24	31	36	38	34
90	2	8	15	20	22	
95	35	128	132	112	108	132
105	159	321	448	506	521	419
115	301	420	599	701	730	551
125	438	545	657	767	804	578
135	561	626	721	785	814	545
145	665	701	784	829	842	479
155	746	761	806	841	851	370
165	801	802	819	832	839	231
175	829	823	826	825	825	80
180	827	827	827	827	827	

### ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	335	6.44	7.28
0-40	544	10.46	11.83
0-60	949	18.25	20.63
0-90	1215	23.37	26.41
40-90	671	12.91	14.59
60-90	266	5.12	5.78
90-180	3385	65.10	73.59
0-180	4600	88.47	100.00

\*\* EFFICIENCY: 88.5% \*\*

LUMINOUS LENGTH: 40.000 INS  
WIDTH: 4.380 INS

### LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.2  
SC: 1.2

ANGLE	ALONG	45	ACROSS
45	3416	3466	3546
55	3214	3296	3406
65	3045	3068	3146
75	2839	2774	2882
85	2239	3119	3852

### CERTIFIED BY:

*Ryder Ramsey*

DATE:  
OCT 17, 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

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INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	432	432	432	432	432	432	
5	431	430	429	432	430	431	42
10	425	424	424	427	426	425	
15	414	414	415	418	417	416	117
20	399	400	401	405	405	402	
25	380	382	384	387	386	384	176
30	357	360	362	363	362	361	
35	332	334	335	336	336	335	209
40	303	307	306	309	310	307	
45	273	277	276	281	282	278	214
50	241	244	245	251	252	247	
55	208	211	213	218	220	214	191
60	177	177	180	184	185	180	
65	145	144	146	149	150	147	145
70	114	111	113	114	115	113	
75	83	80	81	84	84	82	87
80	51	50	52	57	58	53	
85	22	24	31	36	38	30	34
90	2	8	15	20	22	14	
95	35	128	132	112	108	111	132
100	92	242	324	336	338	279	
105	159	321	448	506	521	404	419
110	231	374	542	621	646	494	
115	301	420	599	701	730	559	551
120	369	483	633	747	785	610	
125	438	545	657	767	804	647	578
130	502	587	683	778	812	676	
135	561	626	721	785	814	705	545
140	616	665	761	804	822	737	
145	665	701	784	829	842	767	479
150	709	734	791	842	861	788	
155	746	761	806	841	851	801	370
160	777	784	814	836	846	811	
165	801	802	819	832	839	818	231
170	819	815	824	828	831	823	
175	829	823	826	825	825	825	80
180	827	827	827	827	827	827	

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AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	3825( 1116)	3825( 1116)	3825( 1116)	3825( 1116)	3825( 1116)
30	3650( 1065)	3684( 1075)	3707( 1082)	3720( 1085)	3698( 1079)
40	3501( 1022)	3550( 1036)	3537( 1032)	3578( 1044)	3579( 1044)
45	3416( 997)	3468( 1012)	3466( 1011)	3527( 1029)	3546( 1035)
50	3316( 967)	3376( 985)	3374( 984)	3463( 1010)	3470( 1012)
55	3214( 938)	3260( 951)	3296( 962)	3376( 985)	3406( 994)
60	3125( 912)	3148( 918)	3184( 929)	3260( 951)	3276( 956)
65	3045( 888)	3019( 881)	3068( 895)	3134( 914)	3146( 918)
70	2957( 863)	2887( 842)	2928( 854)	2964( 865)	2977( 869)
75	2839( 828)	2742( 800)	2774( 809)	2864( 836)	2882( 841)
80	2574( 751)	2556( 746)	2678( 781)	2884( 841)	2956( 862)
85	2239( 653)	2459( 717)	3119( 910)	3659( 1068)	3852( 1124)

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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	0.990	0.990	0.990	0.99	0.900	0.900	0.900	0.90	0.800	0.800	0.800	0.80	0.620	0.620	0.62	0.460	0.460	0.46	0.300	0.300	0.30	0.23			
1	0.910	0.870	0.830	0.80	0.820	0.780	0.750	0.72	0.730	0.700	0.670	0.64	0.540	0.530	0.51	0.400	0.390	0.38	0.270	0.260	0.26	0.20			
2	0.830	0.750	0.690	0.64	0.740	0.680	0.630	0.59	0.660	0.610	0.570	0.53	0.480	0.450	0.42	0.350	0.330	0.32	0.240	0.230	0.22	0.17			
3	0.760	0.660	0.590	0.54	0.680	0.600	0.540	0.49	0.610	0.540	0.490	0.45	0.420	0.390	0.36	0.310	0.290	0.27	0.210	0.200	0.19	0.14			
4	0.690	0.580	0.510	0.45	0.620	0.530	0.460	0.41	0.550	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	0.630	0.510	0.440	0.38	0.570	0.460	0.400	0.35	0.510	0.420	0.360	0.32	0.330	0.290	0.26	0.250	0.220	0.20	0.170	0.150	0.14	0.10			
6	0.580	0.460	0.380	0.33	0.520	0.420	0.350	0.30	0.460	0.380	0.320	0.27	0.300	0.250	0.22	0.220	0.190	0.17	0.150	0.130	0.12	0.09			
7	0.530	0.410	0.340	0.28	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	0.140	0.120	0.10	0.08			
8	0.490	0.370	0.300	0.25	0.440	0.340	0.270	0.23	0.390	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	0.450	0.330	0.260	0.21	0.410	0.300	0.240	0.20	0.360	0.270	0.220	0.18	0.220	0.180	0.15	0.160	0.130	0.11	0.110	0.090	0.08	0.06			
10	0.420	0.300	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 61.5

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.