



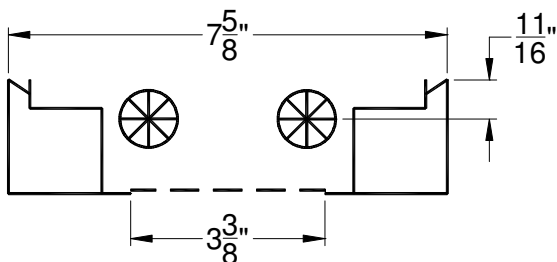
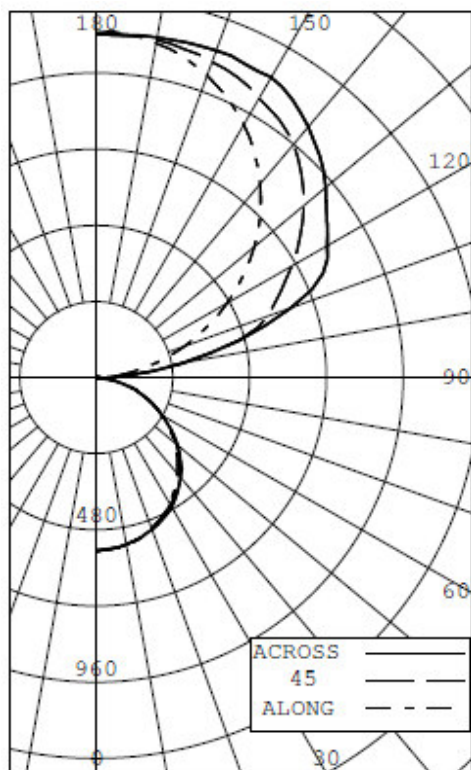
# Lighting Sciences

www.lightingsciences.com

Lighting Sciences Inc.  
7826 E. Evans Road  
Scottsdale, Arizona 85260 USA  
Tel: 480-991-9260 • Fax: 480-991-0375

INDEPENDENT TEST LABORATORY REPORT No. 29710

FINELITE - 4 FT FLUORESCENT LUMINAIRE, CAT# S16-DCO-2T8-91W-OPEN  
WITH WHITE INTERIOR AND WHITE FLAT PLASTIC LENS  
TWO SYLVANIA 32 WATT T8 LAMPS, CAT# FO32/835/ECO. LUMEN RATING = 3100 LMS.  
ONE SYLVANIA QHE2X32T8/UNV ISN SC BALLAST OPERATING AT 120 VAC AND 55.4 WATTS



INTENSITY (CANDLEPOWER) SUMMARY						OUTPUT LUMENS
ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	547	547	547	547	547	
5	545	543	544	546	543	52
15	525	523	524	527	524	148
25	486	484	487	495	493	225
35	428	427	436	442	442	272
45	358	360	368	373	373	282
55	278	283	285	286	285	253
65	197	196	195	194	193	193
75	119	108	107	106	104	114
85	30	29	27	26	25	32
90	0	0	0	0	0	
95	37	104	104	97	94	112
105	200	328	459	464	463	414
115	383	514	633	750	783	609
125	562	673	781	851	882	677
135	726	798	910	967	990	681
145	864	906	996	1052	1070	612
155	973	991	1045	1083	1093	478
165	1048	1051	1073	1085	1094	302
175	1088	1080	1085	1082	1084	105
180	1084	1084	1084	1084	1084	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	425	6.86	7.64
0-40	697	11.24	12.53
0-60	1232	19.87	22.15
0-90	1571	25.34	28.25
40-90	874	14.10	15.72
60-90	339	5.47	6.09
90-180	3991	64.37	71.75
0-180	5562	89.71	100.00

\*\* EFFICIENCY: 89.7% \*\*

LUMINOUS LENGTH: 42.870 INS  
WIDTH: 3.375 INS

LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	5419	5600	5666
55	5201	5349	5343
65	4989	4949	4898
75	4918	4441	4332
85	3700	3375	3134

CERTIFIED BY:

*Ryder Trumey*

DATE:  
OCT 19, 2011

PREPARED FOR:

FINELITE  
UNION CITY, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	547	547	547	547	547	547	
5	545	543	544	546	543	544	52
10	538	536	536	539	536	537	
15	525	523	524	527	524	524	148
20	508	506	506	512	510	508	
25	486	484	487	495	493	489	225
30	459	458	464	471	470	464	
35	428	427	436	442	442	435	272
40	394	395	404	410	409	403	
45	358	360	368	373	373	367	282
50	319	323	328	331	331	327	
55	278	283	285	286	285	284	253
60	237	240	240	239	238	239	
65	197	196	195	194	193	195	193
70	157	152	150	149	148	151	
75	119	108	107	106	104	108	114
80	75	67	66	65	63	67	
85	30	29	27	26	25	28	32
90	0	0	0	0	0	0	
95	37	104	104	97	94	92	112
100	110	251	279	277	274	250	
105	200	328	459	464	463	395	414
110	291	422	573	643	647	527	
115	383	514	633	750	783	620	609
120	475	599	706	799	835	690	
125	562	673	781	851	882	757	677
130	647	738	847	915	938	823	
135	726	798	910	967	990	883	681
140	798	854	960	1013	1032	935	
145	864	906	996	1052	1070	980	612
150	923	952	1018	1068	1094	1012	
155	973	991	1045	1083	1093	1038	478
160	1015	1024	1061	1086	1098	1057	
165	1048	1051	1073	1085	1094	1070	302
170	1073	1069	1081	1084	1089	1079	
175	1088	1080	1085	1082	1084	1083	105
180	1084	1084	1084	1084	1084	1084	

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AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	5858( 1709)	5858( 1709)	5858( 1709)	5858( 1709)	5858( 1709)
30	5674( 1656)	5678( 1657)	5751( 1678)	5839( 1704)	5819( 1698)
40	5516( 1609)	5543( 1618)	5654( 1650)	5749( 1677)	5725( 1671)
45	5419( 1581)	5467( 1595)	5600( 1634)	5666( 1653)	5666( 1653)
50	5309( 1549)	5403( 1577)	5471( 1596)	5533( 1615)	5508( 1607)
55	5201( 1518)	5286( 1542)	5349( 1561)	5357( 1563)	5343( 1559)
60	5081( 1483)	5153( 1504)	5140( 1500)	5136( 1499)	5097( 1487)
65	4989( 1456)	4983( 1454)	4949( 1444)	4924( 1437)	4898( 1429)
70	4927( 1438)	4785( 1396)	4721( 1378)	4666( 1361)	4627( 1350)
75	4918( 1435)	4505( 1315)	4441( 1296)	4385( 1280)	4332( 1264)
80	4612( 1346)	4179( 1219)	4101( 1197)	3997( 1166)	3902( 1138)
85	3700( 1079)	3607( 1052)	3375( 985)	3215( 938)	3134( 914)

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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	1.011	1.011	1.011	1.01	0.910	0.910	0.910	0.91	0.820	0.820	0.820	0.82	0.640	0.640	0.64	0.480	0.480	0.48	0.320	0.320	0.32	0.25			
1	0.920	0.880	0.840	0.81	0.830	0.800	0.760	0.73	0.750	0.710	0.690	0.66	0.560	0.540	0.52	0.420	0.410	0.40	0.290	0.280	0.28	0.22			
2	0.840	0.770	0.710	0.65	0.760	0.700	0.640	0.60	0.680	0.620	0.580	0.54	0.490	0.460	0.43	0.370	0.350	0.33	0.250	0.240	0.23	0.18			
3	0.770	0.680	0.600	0.55	0.690	0.610	0.550	0.50	0.620	0.550	0.500	0.46	0.430	0.400	0.37	0.330	0.300	0.28	0.230	0.210	0.20	0.16			
4	0.700	0.590	0.520	0.46	0.630	0.540	0.470	0.42	0.570	0.490	0.430	0.38	0.380	0.340	0.31	0.290	0.260	0.24	0.200	0.190	0.17	0.13			
5	0.640	0.510	0.450	0.39	0.580	0.470	0.410	0.36	0.520	0.430	0.370	0.33	0.340	0.300	0.26	0.260	0.230	0.21	0.180	0.160	0.15	0.11			
6	0.590	0.470	0.390	0.33	0.530	0.430	0.360	0.31	0.470	0.380	0.320	0.28	0.310	0.260	0.23	0.230	0.200	0.18	0.160	0.140	0.13	0.10			
7	0.540	0.420	0.340	0.29	0.490	0.380	0.310	0.27	0.440	0.340	0.290	0.24	0.270	0.230	0.20	0.210	0.180	0.15	0.150	0.130	0.11	0.09			
8	0.500	0.380	0.300	0.25	0.450	0.340	0.280	0.23	0.400	0.310	0.250	0.21	0.250	0.200	0.17	0.190	0.160	0.13	0.130	0.110	0.10	0.07			
9	0.460	0.340	0.260	0.22	0.420	0.310	0.240	0.20	0.370	0.280	0.220	0.18	0.220	0.180	0.15	0.170	0.140	0.12	0.120	0.100	0.08	0.06			
10	0.430	0.310	0.240	0.19	0.390	0.280	0.220	0.18	0.350	0.250	0.200	0.16	0.200	0.160	0.13	0.150	0.120	0.10	0.110	0.090	0.07	0.06			

LUMINAIRE INPUT WATTS 55.4

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.