



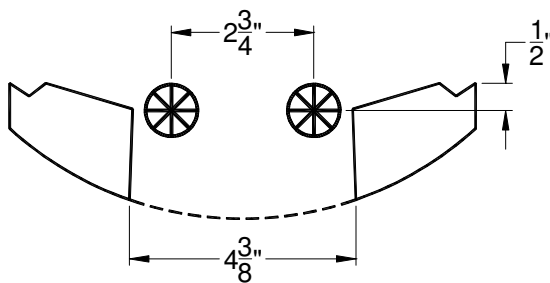
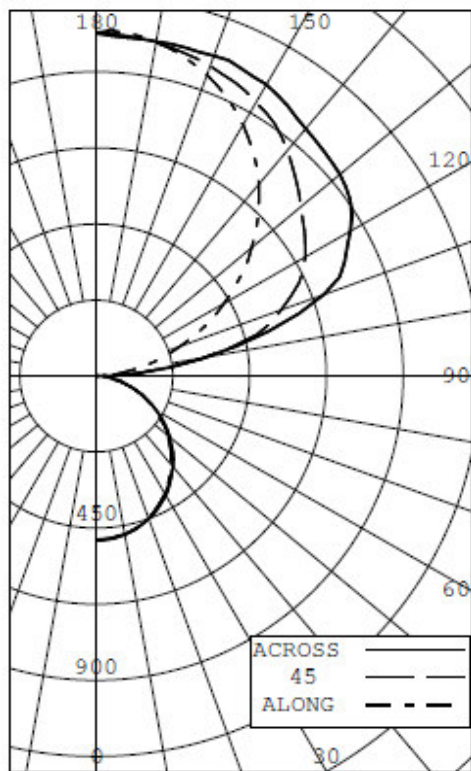
# Lighting Sciences

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. 29704

FINELITE - 4 FT FLUORESCENT LUMINAIRE, CAT# S12-ID-DCO-2T8-91W-OPEN  
WITH WHITE INTERIOR AND WHITE CURVED 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 56.8 WATTS



LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	3848	3911	3973
55	3622	3703	3767
65	3398	3410	3462
75	3204	3016	3106
85	2184	2933	3652

INTENSITY (CANDLEPOWER) SUMMARY						OUTPUT LUMENS
ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	486	486	486	486	486	
5	485	483	482	485	483	47
15	466	464	463	467	466	131
25	427	427	427	431	431	197
35	373	374	375	379	379	235
45	308	309	311	316	316	240
55	235	238	239	243	243	214
65	162	163	162	164	165	161
75	94	89	88	90	91	95
85	22	23	29	34	36	33
90	0	3	11	17	19	
95	32	113	126	130	130	133
105	179	341	488	521	523	440
115	350	468	656	762	803	608
125	518	609	747	869	909	656
135	673	731	829	908	944	633
145	805	832	912	960	978	562
155	910	915	960	997	1006	441
165	981	977	991	1001	1007	280
175	1020	1009	1012	1007	1008	98
180	1015	1015	1015	1015	1015	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	375	6.04	7.20
0-40	609	9.83	11.71
0-60	1063	17.15	20.44
0-90	1353	21.82	26.01
40-90	744	12.00	14.29
60-90	290	4.67	5.57
90-180	3850	62.09	73.99
0-180	5203	83.92	100.00

\*\* EFFICIENCY: 83.9% \*\*

LUMINOUS LENGTH: 40.000 INS  
WIDTH: 4.380 INS

S/MH: 1.2  
SC: 1.2

CERTIFIED BY:

*Ryder Tunney*

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	486	486	486	486	486	486	
5	485	483	482	485	483	484	47
10	478	476	475	479	478	477	
15	466	464	463	467	466	465	131
20	449	448	447	451	450	449	
25	427	427	427	431	431	429	197
30	402	402	403	408	408	404	
35	373	374	375	379	379	376	235
40	342	342	345	349	349	345	
45	308	309	311	316	316	312	240
50	272	274	276	280	281	277	
55	235	238	239	243	243	240	214
60	198	201	201	203	204	201	
65	162	163	162	164	165	163	161
70	129	125	125	126	126	126	
75	94	89	88	90	91	90	95
80	57	54	55	59	60	57	
85	22	23	29	34	36	29	33
90	0	3	11	17	19	10	
95	32	113	126	130	130	113	133
100	97	252	311	319	319	273	
105	179	341	488	521	523	425	440
110	264	407	578	689	711	540	
115	350	468	656	762	803	616	608
120	435	538	709	826	859	680	
125	518	609	747	869	909	735	656
130	598	674	784	892	933	779	
135	673	731	829	908	944	819	633
140	742	782	874	933	957	859	
145	805	832	912	960	978	899	562
150	861	877	937	977	998	930	
155	910	915	960	997	1006	958	441
160	950	949	977	999	1010	976	
165	981	977	991	1001	1007	991	280
170	1005	997	1003	1004	1007	1002	
175	1020	1009	1012	1007	1008	1010	98
180	1015	1015	1015	1015	1015	1015	

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AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	4301( 1255)	4301( 1255)	4301( 1255)	4301( 1255)	4301( 1255)
30	4108( 1199)	4120( 1202)	4125( 1203)	4173( 1217)	4163( 1215)
40	3944( 1151)	3965( 1157)	3985( 1163)	4036( 1178)	4025( 1174)
45	3848( 1123)	3873( 1130)	3911( 1141)	3963( 1156)	3973( 1159)
50	3739( 1091)	3789( 1106)	3799( 1108)	3867( 1128)	3867( 1128)
55	3622( 1057)	3678( 1073)	3703( 1080)	3756( 1096)	3767( 1099)
60	3508( 1024)	3565( 1040)	3558( 1038)	3600( 1050)	3602( 1051)
65	3398( 991)	3417( 997)	3410( 995)	3446( 1005)	3462( 1010)
70	3324( 970)	3252( 949)	3236( 944)	3263( 952)	3264( 952)
75	3204( 935)	3040( 887)	3016( 880)	3098( 904)	3106( 906)
80	2910( 849)	2751( 802)	2802( 818)	3002( 876)	3070( 896)
85	2184( 637)	2318( 676)	2933( 856)	3512( 1025)	3652( 1065)

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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	0.940	0.940	0.940	0.94	0.850	0.850	0.850	0.85	0.760	0.760	0.760	0.76	0.590	0.590	0.59	0.430	0.430	0.43	0.290	0.290	0.29	0.22			
1	0.860	0.820	0.780	0.76	0.780	0.740	0.710	0.68	0.690	0.660	0.640	0.61	0.510	0.500	0.48	0.380	0.370	0.36	0.250	0.250	0.24	0.19			
2	0.780	0.720	0.660	0.61	0.710	0.650	0.600	0.56	0.630	0.580	0.540	0.50	0.450	0.420	0.40	0.330	0.320	0.30	0.220	0.210	0.21	0.16			
3	0.720	0.630	0.560	0.51	0.650	0.570	0.510	0.47	0.570	0.510	0.460	0.42	0.400	0.370	0.34	0.300	0.280	0.26	0.200	0.190	0.18	0.13			
4	0.660	0.550	0.480	0.43	0.590	0.500	0.440	0.39	0.520	0.450	0.400	0.36	0.350	0.320	0.29	0.260	0.240	0.22	0.180	0.160	0.15	0.12			
5	0.600	0.480	0.420	0.36	0.540	0.440	0.380	0.33	0.480	0.400	0.340	0.30	0.310	0.270	0.24	0.230	0.210	0.19	0.160	0.140	0.13	0.10			
6	0.550	0.440	0.360	0.31	0.490	0.400	0.330	0.29	0.440	0.360	0.300	0.26	0.280	0.240	0.21	0.210	0.180	0.16	0.140	0.130	0.11	0.09			
7	0.510	0.390	0.320	0.27	0.460	0.360	0.290	0.25	0.400	0.320	0.260	0.23	0.250	0.210	0.18	0.190	0.160	0.14	0.130	0.110	0.10	0.07			
8	0.470	0.350	0.280	0.23	0.420	0.320	0.260	0.21	0.370	0.290	0.230	0.20	0.230	0.190	0.16	0.170	0.140	0.12	0.120	0.100	0.09	0.06			
9	0.430	0.320	0.250	0.20	0.390	0.290	0.230	0.19	0.340	0.260	0.210	0.17	0.200	0.170	0.14	0.150	0.130	0.11	0.110	0.090	0.07	0.06			
10	0.400	0.290	0.220	0.18	0.360	0.260	0.200	0.16	0.320	0.240	0.180	0.15	0.190	0.150	0.12	0.140	0.110	0.09	0.100	0.080	0.07	0.05			

LUMINAIRE INPUT WATTS 56.8

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.