



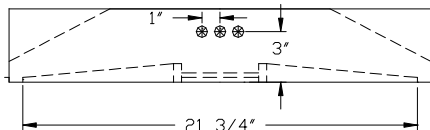
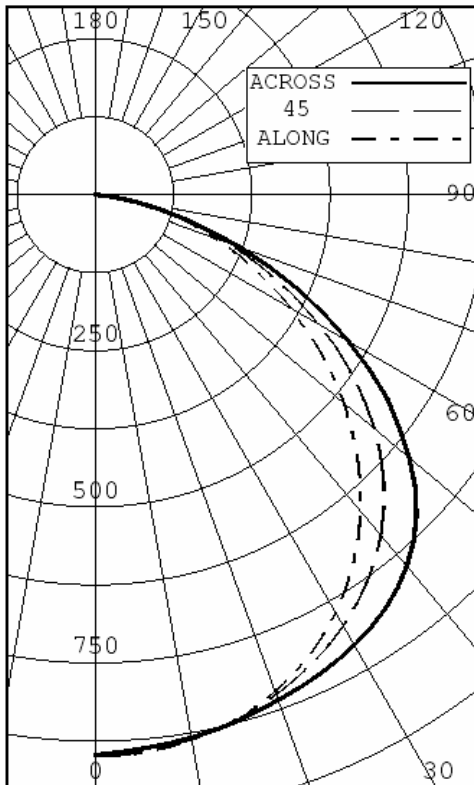
# Lighting Sciences

www.lightingsciences.com

Lighting Sciences Inc.  
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CERTIFIED TEST REPORT No. 25692

FINELITE - 2'X 2' FLUORESCENT RECESSED LUMINAIRE, CAT# HPR-x-2X2-3T5-SCO  
WHITE REFLECTOR, FROSTED PLASTIC SIDE LENSES & RECT PERF .120 LENS  
THREE SYLVANIA 14 WATT T5 LAMPS, CAT# FP14/835/ECO. LUMEN RATING = 1200 LMS.  
TWO SYLVANIA QTP2X28T5/UNV PSN BALLASTS OPERATING AT 120 VAC AND 47 WATTS



## INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	898	898	898	898	898	
5	897	895	895	892	890	86
10	886	885	886	885	883	
15	870	868	871	873	873	246
20	845	844	850	858	860	
25	812	812	825	841	847	381
30	770	773	794	820	831	
35	719	725	757	793	808	474
40	659	668	710	756	775	
45	592	603	652	705	726	503
50	517	529	581	635	654	
55	438	450	499	547	569	445
60	357	368	408	450	465	
65	279	287	316	345	357	313
70	205	209	225	241	247	
75	136	136	139	144	147	150
80	77	71	68	67	67	
85	29	22	19	18	18	28
90	0	0	0	0	0	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	713	19.80	27.15
0-40	1187	32.98	45.22
0-60	2134	59.29	81.30
0-90	2625	72.93	100.00
40-90	1438	39.95	54.78
60-90	491	13.64	18.70
90-180	0	0.00	0.00
0-180	2625	72.93	100.00

\*\* EFFICIENCY: 72.9% \*\*

## LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	2710	2996	3336
55	2472	2829	3223
65	2138	2431	2743
75	1706	1736	1843
85	1079	718	660

S/MH: 1.4  
SC (ALONG): 1.3, SC (ACROSS): 1.4

CERTIFIED BY:

*Tan Leung*

DATE:  
JUL 17, 2009

PREPARED FOR:

FINELITE  
UNION CITY, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	898	898	898	898	898	898	86
2.5	900	898	898	896	894	897	
5.0	897	895	895	892	890	894	
7.5	892	891	890	889	887	890	
10.0	886	885	886	885	883	885	
12.5	879	878	879	879	879	879	246
15.0	870	868	871	873	873	871	
17.5	858	857	861	865	867	861	
20.0	845	844	850	858	860	851	
22.5	829	829	838	850	854	840	
25.0	812	812	825	841	847	827	381
27.5	792	794	811	832	840	813	
30.0	770	773	794	820	831	797	
32.5	745	750	776	808	821	779	
35.0	719	725	757	793	808	759	
37.5	690	697	734	776	793	737	474
40.0	659	668	710	756	775	713	
42.5	626	636	682	732	752	685	
45.0	592	603	652	705	726	655	
47.5	555	567	618	673	693	620	
50.0	517	529	581	635	654	583	503
52.5	478	490	541	592	611	542	
55.0	438	450	499	547	569	500	
57.5	398	409	455	500	517	455	
60.0	357	368	408	450	465	409	
62.5	318	327	362	398	411	363	313
65.0	279	287	316	345	357	317	
67.5	241	247	270	292	301	270	
70.0	205	209	225	241	247	225	
72.5	170	173	180	190	195	181	
75.0	136	136	139	144	147	140	150
77.5	105	102	100	103	104	102	
80.0	77	71	68	67	67	69	
82.5	52	43	40	38	37	41	
85.0	29	22	19	18	18	21	
87.5	10	7	7	7	7	7	28
90.0	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG		22.5		45		67.5		ACROSS	
0	2908 (	848)	2908 (	848)	2908 (	848)	2908 (	848)	2908 (	848)
30	2878 (	840)	2899 (	846)	2979 (	869)	3076 (	897)	3108 (	907)
40	2787 (	813)	2831 (	826)	3003 (	876)	3205 (	935)	3275 (	956)
45	2710 (	790)	2765 (	807)	2996 (	874)	3238 (	945)	3336 (	973)
50	2604 (	760)	2678 (	781)	2926 (	854)	3207 (	936)	3294 (	961)
55	2472 (	721)	2545 (	743)	2829 (	825)	3098 (	904)	3223 (	940)
60	2315 (	675)	2392 (	698)	2647 (	772)	2921 (	852)	3011 (	879)
65	2138 (	624)	2199 (	642)	2431 (	709)	2656 (	775)	2743 (	800)
70	1939 (	566)	1984 (	579)	2133 (	622)	2285 (	667)	2339 (	682)
75	1706 (	498)	1705 (	497)	1736 (	506)	1808 (	527)	1843 (	538)
80	1429 (	417)	1320 (	385)	1266 (	369)	1255 (	366)	1258 (	367)
85	1079 (	315)	823 (	240)	718 (	209)	658 (	192)	660 (	192)

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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	0.890	0.890	0.890	0.89	0.870	0.870	0.870	0.87	0.850	0.850	0.850	0.85	0.810	0.810	0.81	0.780	0.780	0.78	0.740	0.740	0.74	0.73			
1	0.820	0.790	0.760	0.73	0.800	0.770	0.740	0.72	0.780	0.760	0.730	0.71	0.720	0.700	0.68	0.700	0.680	0.66	0.670	0.660	0.64	0.63			
2	0.750	0.700	0.650	0.60	0.730	0.680	0.640	0.60	0.720	0.670	0.620	0.59	0.640	0.610	0.58	0.620	0.590	0.56	0.600	0.570	0.55	0.54			
3	0.690	0.610	0.550	0.51	0.670	0.600	0.550	0.50	0.660	0.590	0.540	0.50	0.570	0.530	0.49	0.550	0.510	0.48	0.530	0.500	0.47	0.46			
4	0.630	0.550	0.480	0.43	0.620	0.540	0.480	0.43	0.600	0.530	0.470	0.43	0.510	0.460	0.42	0.490	0.450	0.42	0.480	0.440	0.41	0.39			
5	0.580	0.480	0.420	0.36	0.570	0.470	0.410	0.36	0.550	0.470	0.410	0.36	0.450	0.400	0.36	0.440	0.390	0.35	0.420	0.380	0.35	0.33			
6	0.530	0.430	0.360	0.32	0.520	0.420	0.360	0.32	0.500	0.420	0.360	0.31	0.400	0.350	0.31	0.390	0.340	0.31	0.380	0.340	0.30	0.29			
7	0.490	0.390	0.320	0.28	0.480	0.380	0.320	0.27	0.470	0.370	0.310	0.27	0.360	0.310	0.27	0.350	0.300	0.27	0.340	0.300	0.26	0.25			
8	0.450	0.340	0.280	0.24	0.440	0.340	0.280	0.24	0.430	0.330	0.280	0.23	0.320	0.270	0.23	0.320	0.270	0.23	0.310	0.260	0.23	0.22			
9	0.410	0.310	0.250	0.20	0.400	0.310	0.240	0.20	0.390	0.300	0.240	0.20	0.290	0.240	0.20	0.280	0.230	0.20	0.280	0.230	0.20	0.18			
10	0.380	0.280	0.220	0.18	0.370	0.280	0.220	0.18	0.370	0.270	0.220	0.18	0.260	0.210	0.18	0.260	0.210	0.17	0.250	0.210	0.17	0.16			

LUMINAIRE INPUT WATTS 47.0

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.