



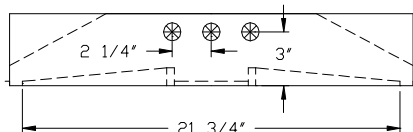
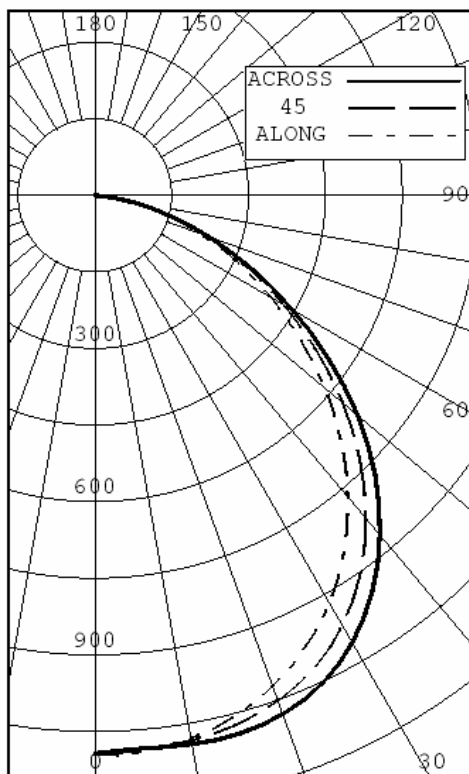
# Lighting Sciences

www.lightingsciences.com

Lighting Sciences Inc.  
7826 E. Evans Road  
Scottsdale, Arizona 85260 USA  
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CERTIFIED TEST REPORT No. 25448

FINELITE - 2' X 2' FLUORESCENT RECESSED LUMINAIRE, CAT# HPR-x-2X2-3T8-DCO  
WHITE REFLECTOR, FROSTED PLASTIC SIDE LENSES & FROSTED .080 CENTER LENS  
THREE SYLVANIA 17 WATT T8 LAMPS, CAT# FO17/835/ECO. LUMEN RATING = 1350 LMS.  
ONE SYLVANIA QHE3X32T8/UNV ISN-SC BALLAST OPERATING AT 120 VAC AND 43 WATTS



INTENSITY (CANDLEPOWER) SUMMARY						OUTPUT LUMENS
ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1094	1094	1094	1094	1094	106
5	1093	1093	1091	1088	1088	
10	1079	1080	1085	1089	1091	
15	1056	1060	1073	1085	1092	303
20	1021	1028	1051	1071	1080	466
25	973	986	1018	1042	1053	
30	918	931	969	995	1008	
35	848	863	903	931	944	560
40	768	784	822	851	865	559
45	679	694	730	758	773	
50	586	598	630	655	669	
55	489	498	525	545	556	466
60	394	400	421	435	443	317
65	303	307	320	330	336	
70	219	221	228	233	237	
75	144	143	146	147	150	156
80	79	77	77	76	76	32
85	27	26	24	21	21	
90	0	0	0	0	0	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	874	21.59	29.50
0-40	1434	35.42	48.40
0-60	2460	60.73	82.98
0-90	2964	73.18	100.00
40-90	1530	37.77	51.60
60-90	504	12.45	17.02
90-180	0	0.00	0.00
0-180	2964	73.18	100.00

\*\* EFFICIENCY: 73.2% \*\*

LUMINOUS LENGTH: 22.000 INS  
WIDTH: 21.750 INS

## LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	3112	3359	3552
55	2760	2976	3150
65	2322	2464	2582
75	1797	1831	1882
85	1015	894	768

S/MH: 1.3  
SC (ALONG): 1.2, SC (ACROSS): 1.3

CERTIFIED BY:

*Tan Levin*

DATE:  
AUG 19, 2009

PREPARED FOR:

FINELITE  
UNION CITY, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

CERTIFIED TEST REPORT No. 25448

INTENSITY (CANDLEPOWER) DATA  
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	1094	1094	1094	1094	1094	1094	106
2.5	1097	1097	1093	1089	1089	1093	
5.0	1093	1093	1091	1088	1088	1091	
7.5	1087	1087	1087	1088	1090	1088	
10.0	1079	1080	1085	1089	1091	1085	
12.5	1069	1071	1079	1088	1093	1080	303
15.0	1056	1060	1073	1085	1092	1073	
17.5	1040	1045	1063	1079	1087	1063	
20.0	1021	1028	1051	1071	1080	1050	
22.5	999	1008	1036	1058	1069	1034	
25.0	973	986	1018	1042	1053	1015	466
27.5	948	960	996	1021	1033	992	
30.0	918	931	969	995	1008	964	
32.5	884	899	938	965	978	933	
35.0	848	863	903	931	944	898	
37.5	809	825	864	893	907	860	560
40.0	768	784	822	851	865	818	
42.5	724	740	778	806	820	774	
45.0	679	694	730	758	773	727	
47.5	633	647	681	707	722	678	
50.0	586	598	630	655	669	627	559
52.5	537	548	578	601	613	575	
55.0	489	498	525	545	556	523	
57.5	441	448	473	489	499	470	
60.0	394	400	421	435	443	418	
62.5	348	353	370	382	388	368	317
65.0	303	307	320	330	336	319	
67.5	260	263	273	281	286	272	
70.0	219	221	228	233	237	228	
72.5	180	181	186	190	192	186	
75.0	144	143	146	147	150	146	156
77.5	110	108	110	110	111	110	
80.0	79	77	77	76	76	77	
82.5	52	49	49	45	44	48	
85.0	27	26	24	21	21	24	
87.5	9	8	7	6	6	7	32
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	3542( 1034)	3542( 1034)	3542( 1034)	3542( 1034)	3542( 1034)
30	3432( 1001)	3493( 1019)	3632( 1060)	3731( 1089)	3769( 1100)
40	3245( 947)	3323( 969)	3481( 1015)	3608( 1053)	3658( 1067)
45	3112( 908)	3185( 929)	3359( 980)	3481( 1016)	3552( 1036)
50	2950( 861)	3023( 882)	3175( 926)	3308( 965)	3371( 983)
55	2760( 805)	2816( 821)	2976( 868)	3087( 901)	3150( 919)
60	2549( 744)	2600( 759)	2728( 796)	2823( 824)	2867( 836)
65	2322( 677)	2355( 687)	2464( 719)	2540( 741)	2582( 753)
70	2074( 605)	2098( 612)	2166( 632)	2214( 646)	2247( 655)
75	1797( 524)	1801( 525)	1831( 534)	1850( 540)	1882( 549)
80	1467( 428)	1440( 420)	1444( 421)	1417( 413)	1423( 415)
85	1015( 296)	970( 283)	894( 261)	782( 228)	768( 224)

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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	0.750	0.750	0.75	0.73			
1	0.830	0.790	0.760	0.74	0.810	0.780	0.750	0.72	0.790	0.760	0.740	0.71	0.730	0.710	0.69	0.700	0.680	0.67	0.680	0.660	0.65	0.63			
2	0.760	0.700	0.660	0.61	0.740	0.690	0.650	0.61	0.720	0.670	0.630	0.60	0.650	0.620	0.59	0.630	0.600	0.57	0.600	0.580	0.56	0.55			
3	0.700	0.620	0.570	0.52	0.680	0.610	0.560	0.52	0.660	0.600	0.550	0.51	0.580	0.540	0.50	0.560	0.530	0.49	0.540	0.510	0.49	0.47			
4	0.640	0.560	0.490	0.45	0.630	0.550	0.490	0.44	0.610	0.540	0.480	0.44	0.520	0.470	0.43	0.500	0.460	0.43	0.490	0.450	0.42	0.41			
5	0.590	0.500	0.430	0.38	0.580	0.490	0.420	0.38	0.560	0.480	0.420	0.38	0.460	0.410	0.37	0.450	0.400	0.37	0.440	0.400	0.36	0.35			
6	0.540	0.440	0.380	0.33	0.530	0.440	0.370	0.33	0.520	0.430	0.370	0.33	0.420	0.360	0.32	0.400	0.360	0.32	0.390	0.350	0.32	0.30			
7	0.500	0.400	0.330	0.29	0.490	0.390	0.330	0.29	0.480	0.390	0.330	0.29	0.380	0.320	0.28	0.360	0.320	0.28	0.360	0.310	0.28	0.27			
8	0.460	0.360	0.300	0.25	0.450	0.350	0.290	0.25	0.440	0.350	0.290	0.25	0.340	0.280	0.25	0.330	0.280	0.24	0.320	0.280	0.24	0.23			
9	0.420	0.320	0.260	0.22	0.410	0.320	0.260	0.22	0.400	0.310	0.260	0.22	0.300	0.250	0.21	0.300	0.250	0.21	0.290	0.240	0.21	0.20			
10	0.390	0.290	0.230	0.19	0.380	0.290	0.230	0.19	0.380	0.280	0.230	0.19	0.280	0.220	0.19	0.270	0.220	0.19	0.260	0.220	0.19	0.17			

LUMINAIRE INPUT WATTS 43.0

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.