



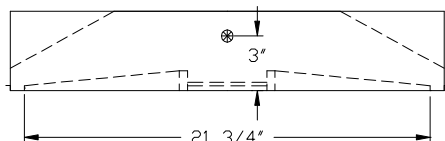
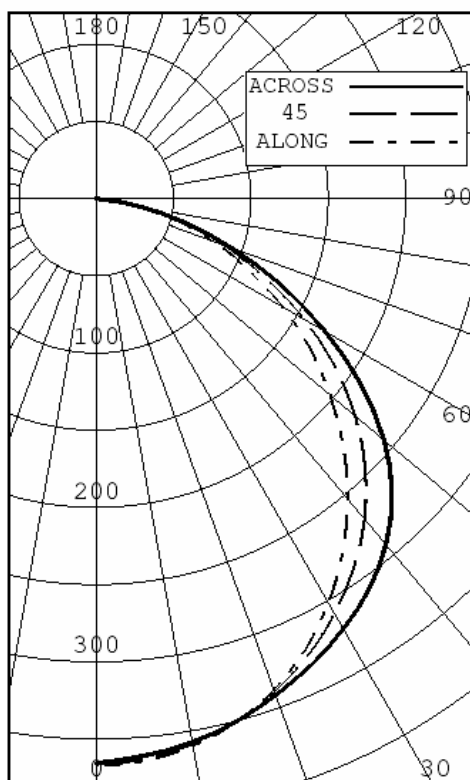
# Lighting Sciences

www.lightingsciences.com

Lighting Sciences Inc.  
7826 E. Evans Road  
Scottsdale, Arizona 85260 USA  
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CERTIFIED TEST REPORT No. 25679

FINELITE - 2' X 2' FLUORESCENT RECESSED LUMINAIRE, CAT# HPR-x-2X2-1T5-DCO  
WHITE REFLECTOR, FROSTED PLASTIC SIDE LENSES & FROSTED .120 CENTER LENS  
ONE SYLVANIA 14 WATT T5 LAMP, CAT# FP14/835/ECO. LUMEN RATING = 1200 LMS.  
ONE SYLVANIA QTP2X28T5/UNV PSN BALLAST OPERATING AT 120 VAC AND 16 WATTS



INTENSITY (CANDLEPOWER) SUMMARY						OUTPUT LUMENS
ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	366	366	366	366	366	
5	365	365	364	363	362	35
10	360	359	359	358	357	
15	351	350	350	351	351	99
20	337	337	339	341	342	
25	321	321	325	330	332	150
30	301	302	309	317	321	
35	278	280	291	303	308	182
40	253	256	270	285	292	
45	226	230	246	263	270	190
50	197	202	218	235	243	
55	168	172	187	202	208	167
60	138	142	154	165	170	
65	109	112	120	128	132	119
70	81	83	87	92	94	
75	54	55	56	58	59	60
80	31	30	30	30	30	
85	12	10	9	8	7	12
90	0	0	0	0	0	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	284	23.63	27.98
0-40	466	38.81	45.95
0-60	822	68.53	81.13
0-90	1014	84.47	100.00
40-90	548	45.66	54.05
60-90	191	15.94	18.87
90-180	0	0.00	0.00
0-180	1014	84.47	100.00

\*\* EFFICIENCY: 84.5% \*\*

## LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	1034	1130	1242
55	948	1062	1181
65	834	923	1012
75	681	706	747
85	431	320	278

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

CERTIFIED BY:

*Tan Lenn*

DATE:  
JUL 8, 2009

PREPARED FOR:

FINELITE  
UNION CITY, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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INTENSITY(CANDLEPOWER) DATA  
IN 2.5 DEGREE STEPS

ANGLE	PLANE					OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS AVERAGE	
0.0	366	366	366	366	366	35
2.5	367	366	366	365	364	
5.0	365	365	364	363	362	
7.5	363	362	362	361	360	
10.0	360	359	359	358	357	
12.5	356	355	355	355	354	99
15.0	351	350	350	351	351	
17.5	344	344	345	346	346	
20.0	337	337	339	341	342	
22.5	330	329	332	335	337	
25.0	321	321	325	330	332	150
27.5	311	312	317	324	327	
30.0	301	302	309	317	321	
32.5	290	291	300	310	315	
35.0	278	280	291	303	308	
37.5	266	268	281	294	300	182
40.0	253	256	270	285	292	
42.5	239	244	258	275	282	
45.0	226	230	246	263	270	
47.5	212	216	232	250	257	
50.0	197	202	218	235	243	190
52.5	183	187	203	219	226	
55.0	168	172	187	202	208	
57.5	153	157	171	184	190	
60.0	138	142	154	165	170	
62.5	123	127	137	147	151	119
65.0	109	112	120	128	132	
67.5	95	97	103	110	112	
70.0	81	83	87	92	94	
72.5	67	68	71	74	76	
75.0	54	55	56	58	59	60
77.5	42	42	43	43	44	
80.0	31	30	30	30	30	
82.5	21	20	19	17	17	
85.0	12	10	9	8	7	
87.5	4	3	2	2	2	12
90.0	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	1184(	345)	1184(	345)	1184(	345)	1184(	345)	1184(	345)
30	1125(	328)	1132(	330)	1159(	338)	1188(	347)	1199(	350)
40	1069(	312)	1087(	317)	1142(	333)	1208(	352)	1233(	359)
45	1034(	301)	1056(	308)	1130(	329)	1207(	352)	1242(	362)
50	994(	290)	1021(	298)	1099(	320)	1189(	347)	1223(	356)
55	948(	276)	974(	284)	1062(	310)	1143(	333)	1181(	344)
60	894(	260)	921(	269)	1000(	291)	1073(	313)	1102(	321)
65	834(	243)	856(	250)	923(	269)	983(	287)	1012(	295)
70	765(	223)	784(	228)	827(	241)	868(	253)	889(	259)
75	681(	198)	689(	201)	706(	206)	731(	213)	747(	218)
80	581(	169)	570(	166)	560(	163)	556(	162)	557(	162)
85	431(	125)	388(	113)	320(	93)	284(	83)	278(	81)

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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	1.031	1.031	1.031	1.031	1.011	1.011	1.011	1.011	0.980	0.980	0.980	0.980	0.940	0.940	0.940	0.900	0.900	0.900	0.860	0.860	0.860	0.840	0.840	0.840	0.840
1	0.950	0.910	0.880	0.840	0.930	0.890	0.860	0.830	0.910	0.880	0.840	0.820	0.840	0.810	0.790	0.800	0.790	0.770	0.780	0.760	0.740	0.780	0.760	0.740	0.730
2	0.870	0.810	0.750	0.700	0.850	0.790	0.740	0.690	0.830	0.770	0.720	0.680	0.740	0.700	0.670	0.720	0.680	0.650	0.690	0.660	0.640	0.690	0.660	0.640	0.620
3	0.800	0.710	0.640	0.590	0.780	0.700	0.640	0.590	0.760	0.690	0.630	0.580	0.660	0.610	0.570	0.640	0.600	0.560	0.620	0.580	0.550	0.620	0.580	0.550	0.530
4	0.740	0.630	0.560	0.500	0.720	0.620	0.550	0.500	0.700	0.610	0.550	0.500	0.590	0.530	0.490	0.570	0.520	0.480	0.550	0.510	0.480	0.550	0.510	0.480	0.460
5	0.680	0.560	0.480	0.430	0.660	0.550	0.480	0.420	0.640	0.540	0.470	0.420	0.520	0.460	0.420	0.510	0.450	0.410	0.490	0.450	0.410	0.490	0.450	0.410	0.390
6	0.620	0.500	0.430	0.370	0.600	0.490	0.420	0.370	0.590	0.490	0.420	0.360	0.470	0.410	0.360	0.460	0.400	0.360	0.440	0.390	0.350	0.440	0.390	0.350	0.340
7	0.570	0.450	0.370	0.330	0.560	0.440	0.370	0.320	0.540	0.440	0.370	0.320	0.420	0.360	0.320	0.410	0.350	0.310	0.400	0.350	0.310	0.400	0.350	0.310	0.290
8	0.520	0.400	0.330	0.280	0.510	0.400	0.330	0.280	0.500	0.390	0.320	0.270	0.380	0.320	0.270	0.370	0.310	0.270	0.360	0.310	0.270	0.360	0.310	0.270	0.250
9	0.480	0.360	0.290	0.240	0.470	0.360	0.290	0.240	0.460	0.350	0.290	0.240	0.340	0.280	0.240	0.330	0.280	0.230	0.320	0.270	0.230	0.320	0.270	0.230	0.220
10	0.450	0.330	0.260	0.210	0.440	0.320	0.260	0.210	0.430	0.320	0.260	0.210	0.310	0.250	0.210	0.300	0.250	0.210	0.300	0.240	0.210	0.300	0.240	0.210	0.190

LUMINAIRE INPUT WATTS 16.0

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.