



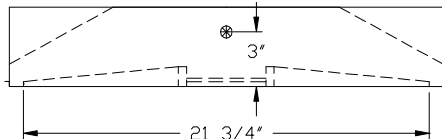
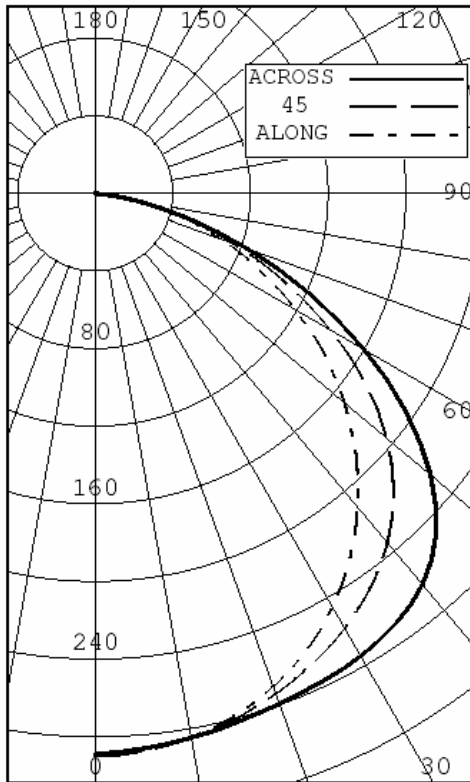
# Lighting Sciences

www.lightingsciences.com

Lighting Sciences Inc.  
7826 E. Evans Road  
Scottsdale, Arizona 85260 USA  
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CERTIFIED TEST REPORT No. 25690

FINELITE - 2' X 2' FLUORESCENT RECESSED LUMINAIRE, CAT# HPR-x-2X2-1T5-SCO  
WHITE REFLECTOR, FROSTED PLASTIC SIDE LENSES & RECT PERF .120 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	289	289	289	289	289	
5	288	288	288	288	287	28
10	284	284	285	285	285	
15	278	278	280	282	282	79
20	270	270	274	278	280	
25	259	260	267	274	277	123
30	245	247	258	270	275	
35	229	232	247	263	270	155
40	210	216	234	254	262	
45	190	196	217	239	248	167
50	167	174	196	217	225	
55	144	150	169	188	195	150
60	119	124	139	154	159	
65	94	98	107	118	121	106
70	70	71	76	82	84	
75	47	46	47	49	50	51
80	26	24	23	23	23	
85	9	7	6	5	5	9
90	0	0	0	0	0	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	230	19.16	26.46
0-40	385	32.09	44.31
0-60	703	58.57	80.87
0-90	869	72.42	100.00
40-90	484	40.33	55.69
60-90	166	13.85	19.13
90-180	0	0.00	0.00
0-180	869	72.42	100.00

\*\* EFFICIENCY: 72.4% \*\*

## LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	869	999	1140
55	810	959	1105
65	719	825	934
75	582	588	625
85	337	215	192

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

CERTIFIED BY:

*Tan Levin*

DATE:  
JUL 10, 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	289	289	289	289	289	289	28
2.5	289	289	290	289	288	289	
5.0	288	288	288	288	287	288	
7.5	287	286	287	287	286	287	
10.0	284	284	285	285	285	285	79
12.5	282	282	283	284	284	283	
15.0	278	278	280	282	282	280	
17.5	274	274	277	280	281	277	
20.0	270	270	274	278	280	274	123
22.5	265	265	270	276	278	271	
25.0	259	260	267	274	277	267	
27.5	252	254	263	272	276	263	
30.0	245	247	258	270	275	259	155
32.5	237	240	253	267	273	254	
35.0	229	232	247	263	270	248	
37.5	220	224	241	259	267	242	
40.0	210	216	234	254	262	235	167
42.5	200	206	226	247	256	227	
45.0	190	196	217	239	248	218	
47.5	179	186	207	229	238	208	
50.0	167	174	196	217	225	196	150
52.5	156	162	183	203	211	183	
55.0	144	150	169	188	195	169	
57.5	131	137	155	171	178	154	
60.0	119	124	139	154	159	139	106
62.5	106	111	123	136	140	123	
65.0	94	98	107	118	121	108	
67.5	82	84	92	100	102	92	
70.0	70	71	76	82	84	77	51
72.5	58	58	61	65	66	62	
75.0	47	46	47	49	50	47	
77.5	36	34	34	35	35	35	
80.0	26	24	23	23	23	23	9
82.5	17	15	13	13	12	14	
85.0	9	7	6	5	5	6	
87.5	2	1	1	1	1	2	
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	936 ( 273)	936 ( 273)	936 ( 273)	936 ( 273)	936 ( 273)
30	916 ( 267)	927 ( 270)	967 ( 282)	1010 ( 294)	1027 ( 299)
40	889 ( 259)	914 ( 266)	991 ( 289)	1077 ( 314)	1109 ( 323)
45	869 ( 253)	899 ( 262)	999 ( 291)	1099 ( 320)	1140 ( 333)
50	843 ( 246)	880 ( 257)	986 ( 287)	1097 ( 320)	1135 ( 331)
55	810 ( 236)	849 ( 247)	959 ( 280)	1062 ( 310)	1105 ( 322)
60	768 ( 224)	806 ( 235)	900 ( 262)	999 ( 291)	1031 ( 301)
65	719 ( 210)	748 ( 218)	825 ( 240)	905 ( 264)	934 ( 272)
70	658 ( 192)	677 ( 197)	722 ( 210)	779 ( 227)	794 ( 231)
75	582 ( 169)	576 ( 168)	588 ( 171)	615 ( 179)	625 ( 182)
80	484 ( 141)	447 ( 130)	426 ( 124)	427 ( 124)	420 ( 122)
85	337 ( 98)	265 ( 77)	215 ( 62)	196 ( 57)	192 ( 56)

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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	0.880	0.880	0.880	0.88	0.860	0.860	0.860	0.86	0.840	0.840	0.840	0.84	0.800	0.800	0.80	0.770	0.770	0.77	0.740	0.740	0.74	0.72			
1	0.810	0.780	0.750	0.72	0.800	0.760	0.740	0.71	0.780	0.750	0.720	0.70	0.720	0.700	0.68	0.690	0.670	0.66	0.660	0.650	0.64	0.62			
2	0.740	0.690	0.640	0.60	0.730	0.670	0.630	0.59	0.710	0.660	0.620	0.58	0.630	0.600	0.57	0.610	0.580	0.56	0.590	0.570	0.54	0.53			
3	0.680	0.610	0.550	0.50	0.670	0.600	0.540	0.50	0.650	0.580	0.530	0.49	0.560	0.520	0.48	0.540	0.510	0.48	0.530	0.500	0.47	0.45			
4	0.630	0.540	0.470	0.43	0.610	0.530	0.470	0.42	0.600	0.520	0.470	0.42	0.500	0.450	0.41	0.490	0.440	0.41	0.470	0.430	0.40	0.39			
5	0.580	0.480	0.410	0.36	0.560	0.470	0.400	0.36	0.540	0.460	0.400	0.36	0.440	0.390	0.35	0.430	0.380	0.35	0.420	0.380	0.34	0.33			
6	0.530	0.420	0.360	0.31	0.510	0.420	0.350	0.31	0.500	0.410	0.350	0.31	0.400	0.340	0.30	0.380	0.340	0.30	0.370	0.330	0.30	0.28			
7	0.480	0.380	0.310	0.27	0.470	0.370	0.310	0.27	0.460	0.370	0.310	0.27	0.360	0.300	0.26	0.350	0.300	0.26	0.340	0.290	0.26	0.24			
8	0.440	0.340	0.280	0.23	0.430	0.330	0.270	0.23	0.420	0.330	0.270	0.23	0.320	0.270	0.23	0.310	0.260	0.23	0.300	0.260	0.22	0.21			
9	0.410	0.310	0.240	0.20	0.400	0.300	0.240	0.20	0.390	0.300	0.240	0.20	0.290	0.230	0.20	0.280	0.230	0.19	0.270	0.230	0.19	0.18			
10	0.380	0.280	0.210	0.17	0.370	0.270	0.210	0.17	0.360	0.270	0.210	0.17	0.260	0.210	0.17	0.250	0.200	0.17	0.250	0.200	0.17	0.16			

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.