



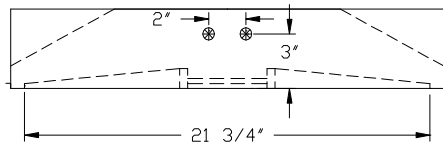
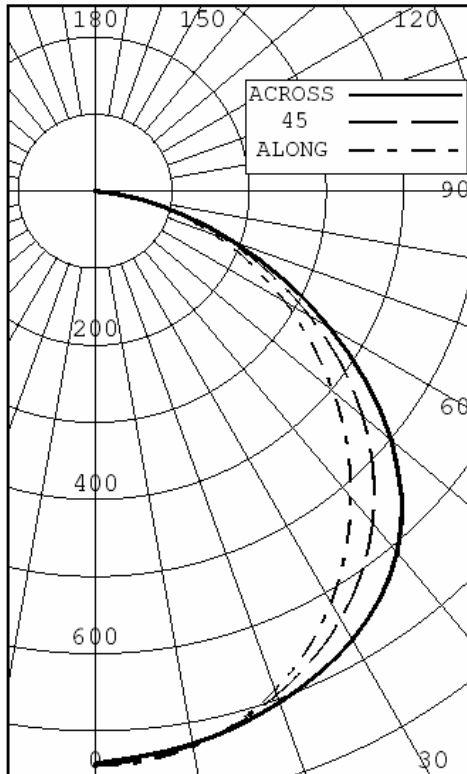
# Lighting Sciences

www.lightingsciences.com

Lighting Sciences Inc.  
7826 E. Evans Road  
Scottsdale, Arizona 85260 USA  
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CERTIFIED TEST REPORT No. 25444

FINELITE - 2' X 2' FLUORESCENT RECESSED LUMINAIRE, CAT# HPR-x-2X2-2T5-DCO  
WHITE REFLECTOR, FROSTED PLASTIC SIDE LENSES & FROSTED .120 CENTER LENS  
TWO SYLVANIA 14 WATT T5 LAMPS, CAT# FP14/835/ECO. LUMEN RATING = 1200 LMS.  
ONE SYLVANIA QTP2X28T5/UNV PSN BALLAST OPERATING AT 120 VAC AND 32 WATTS



## INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	743	743	743	743	743	
5	743	741	739	737	735	71
10	732	730	730	729	728	
15	713	712	715	717	718	201
20	687	687	694	701	705	
25	654	656	669	683	689	308
30	614	617	639	661	670	
35	567	574	603	632	645	377
40	516	525	560	595	610	
45	461	472	510	547	563	392
50	403	415	452	488	502	
55	343	354	388	417	428	344
60	282	291	319	341	350	
65	223	229	247	263	270	244
70	167	169	180	189	192	
75	112	114	117	120	122	125
80	64	63	63	62	61	
85	24	22	19	17	16	26
90	0	0	0	0	0	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	581	24.21	27.82
0-40	958	39.91	45.86
0-60	1694	70.59	81.11
0-90	2089	87.03	100.00
40-90	1131	47.12	54.14
60-90	395	16.44	18.89
90-180	0	0.00	0.00
0-180	2089	87.03	100.00

\*\* EFFICIENCY: 87.0% \*\*

## LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	2112	2346	2587
55	1936	2200	2427
65	1709	1897	2074
75	1400	1464	1529
85	893	714	607

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

CERTIFIED BY:

*Jan Levin*

DATE:  
JUN 3, 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	743	743	743	743	743	743	
2.5	746	744	743	740	739	742	
5.0	743	741	739	737	735	739	71
7.5	738	736	735	734	733	735	
10.0	732	730	730	729	728	730	
12.5	724	722	723	724	724	723	
15.0	713	712	715	717	718	715	201
17.5	701	700	705	709	711	705	
20.0	687	687	694	701	705	694	
22.5	671	672	682	692	697	683	
25.0	654	656	669	683	689	670	308
27.5	635	638	655	673	681	656	
30.0	614	617	639	661	670	640	
32.5	591	597	622	647	659	623	
35.0	567	574	603	632	645	604	377
37.5	542	550	583	614	629	583	
40.0	516	525	560	595	610	561	
42.5	489	499	536	572	588	537	
45.0	461	472	510	547	563	510	392
47.5	433	444	482	519	532	482	
50.0	403	415	452	488	502	452	
52.5	373	384	421	454	466	420	
55.0	343	354	388	417	428	386	344
57.5	313	322	354	379	389	352	
60.0	282	291	319	341	350	317	
62.5	253	260	284	302	310	282	
65.0	223	229	247	263	270	246	244
67.5	194	199	214	225	231	213	
70.0	167	169	180	189	192	179	
72.5	138	141	148	154	156	147	
75.0	112	114	117	120	122	117	125
77.5	87	87	88	90	90	89	
80.0	64	63	63	62	61	63	
82.5	44	42	40	37	34	39	
85.0	24	22	19	17	16	20	26
87.5	8	7	5	5	5	6	
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	0 ( 702)	0 ( 702)	0 ( 702)	0 ( 702)	0 ( 702)
30	0 ( 670)	0 ( 675)	0 ( 699)	0 ( 722)	0 ( 731)
40	0 ( 637)	0 ( 650)	0 ( 692)	0 ( 736)	0 ( 752)
45	0 ( 616)	0 ( 631)	0 ( 684)	0 ( 733)	0 ( 755)
50	0 ( 592)	0 ( 612)	0 ( 665)	0 ( 719)	0 ( 737)
55	0 ( 565)	0 ( 583)	0 ( 642)	0 ( 689)	0 ( 708)
60	0 ( 534)	0 ( 552)	0 ( 604)	0 ( 645)	0 ( 661)
65	0 ( 498)	0 ( 512)	0 ( 553)	0 ( 590)	0 ( 605)
70	0 ( 460)	0 ( 469)	0 ( 498)	0 ( 522)	0 ( 531)
75	0 ( 408)	0 ( 416)	0 ( 427)	0 ( 441)	0 ( 446)
80	0 ( 349)	0 ( 346)	0 ( 342)	0 ( 338)	0 ( 334)
85	0 ( 260)	0 ( 241)	0 ( 208)	0 ( 181)	0 ( 177)

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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	1.061	1.061	1.061	1.06	1.041	1.041	1.041	1.04	1.011	1.011	1.011	1.01	0.970	0.970	0.97	0.930	0.930	0.93	0.890	0.890	0.89	0.87			
1	0.980	0.940	0.900	0.87	0.960	0.920	0.890	0.85	0.930	0.900	0.870	0.84	0.860	0.840	0.81	0.830	0.810	0.79	0.800	0.780	0.77	0.75			
2	0.900	0.830	0.770	0.72	0.880	0.810	0.760	0.71	0.860	0.790	0.740	0.70	0.760	0.720	0.69	0.740	0.700	0.67	0.710	0.680	0.66	0.64			
3	0.820	0.730	0.660	0.61	0.800	0.720	0.650	0.60	0.780	0.710	0.650	0.60	0.680	0.630	0.59	0.660	0.610	0.58	0.640	0.600	0.57	0.55			
4	0.760	0.650	0.570	0.52	0.740	0.640	0.570	0.51	0.720	0.630	0.560	0.51	0.610	0.550	0.50	0.590	0.540	0.50	0.570	0.530	0.49	0.47			
5	0.700	0.580	0.500	0.44	0.680	0.570	0.490	0.43	0.660	0.560	0.480	0.43	0.540	0.480	0.43	0.520	0.470	0.42	0.510	0.460	0.42	0.40			
6	0.640	0.520	0.440	0.38	0.620	0.510	0.430	0.38	0.600	0.500	0.430	0.37	0.480	0.420	0.37	0.470	0.410	0.37	0.460	0.400	0.36	0.35			
7	0.580	0.460	0.380	0.33	0.570	0.460	0.380	0.33	0.560	0.450	0.380	0.33	0.440	0.370	0.32	0.420	0.360	0.32	0.410	0.360	0.32	0.30			
8	0.540	0.410	0.340	0.29	0.530	0.410	0.340	0.28	0.510	0.400	0.330	0.28	0.390	0.330	0.28	0.380	0.320	0.28	0.370	0.320	0.28	0.26			
9	0.500	0.370	0.300	0.24	0.480	0.370	0.290	0.24	0.470	0.360	0.290	0.24	0.350	0.290	0.24	0.340	0.280	0.24	0.330	0.280	0.24	0.22			
10	0.460	0.340	0.260	0.22	0.450	0.330	0.260	0.22	0.440	0.330	0.260	0.22	0.320	0.260	0.21	0.310	0.250	0.21	0.300	0.250	0.21	0.20			

LUMINAIRE INPUT WATTS 32.0

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.