



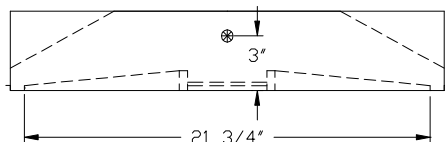
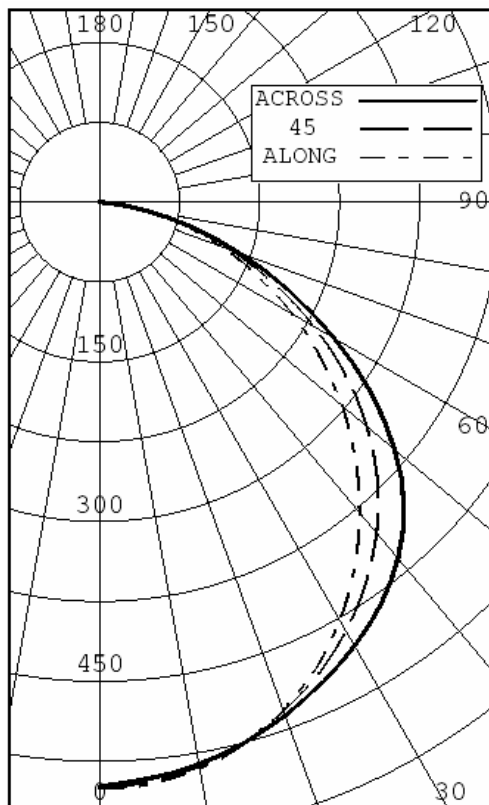
# Lighting Sciences

www.lightingsciences.com

Lighting Sciences Inc.  
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Scottsdale, Arizona 85260 USA  
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CERTIFIED TEST REPORT No. 25446

FINELITE - 2' X 2' FLUORESCENT RECESSED LUMINAIRE, CAT# HPR-x-2X2-1T5HO-DCO  
WHITE REFLECTOR, FROSTED PLASTIC SIDE LENSES & FROSTED .120 CENTER LENS  
ONE SYLVANIA 24 WATT T5HO LAMP, CAT# FP24/830/HO/ECO. LUMEN RATING = 1760 LMS.  
ONE SYLVANIA QTP1X39-24T5HO/UNV PSN BALLAST OPERATING AT 120 VAC AND 28 WATTS



LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	1550	1692	1853
55	1420	1589	1755
65	1253	1378	1502
75	1030	1058	1112
85	665	480	434

## INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	549	549	549	549	549	
5	548	547	546	544	543	53
10	540	539	538	537	536	
15	526	525	525	526	525	148
20	506	505	507	511	512	
25	481	482	487	494	497	225
30	451	453	463	475	480	
35	417	420	435	453	460	273
40	379	385	404	426	435	
45	339	345	368	393	403	284
50	297	303	327	352	361	
55	252	258	280	302	310	250
60	207	213	231	247	253	
65	163	168	179	191	195	177
70	122	124	130	137	139	
75	82	83	84	87	89	91
80	48	46	45	45	45	
85	18	16	13	12	12	19
90	0	0	0	0	0	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	425	24.16	28.00
0-40	698	39.65	45.96
0-60	1231	69.97	81.10
0-90	1518	86.27	100.00
40-90	820	46.62	54.04
60-90	287	16.30	18.90
90-180	0	0.00	0.00
0-180	1518	86.27	100.00

\*\* EFFICIENCY: 86.3% \*\*

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

CERTIFIED BY:

*Jan Levin*

DATE:  
JUL 7, 2009

PREPARED FOR:

FINELITE  
UNION CITY, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

CERTIFIED TEST REPORT No. 25446

INTENSITY (CANDLEPOWER) DATA  
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	549	549	549	549	549	549	53
2.5	551	550	549	547	546	548	
5.0	548	547	546	544	543	546	
7.5	545	543	542	541	540	542	
10.0	540	539	538	537	536	538	
12.5	534	533	532	532	531	532	148
15.0	526	525	525	526	525	525	
17.5	517	516	517	518	518	517	
20.0	506	505	507	511	512	508	
22.5	494	494	498	502	504	498	
25.0	481	482	487	494	497	488	225
27.5	467	468	476	485	489	477	
30.0	451	453	463	475	480	464	
32.5	435	437	450	464	470	451	
35.0	417	420	435	453	460	437	
37.5	399	403	420	440	448	422	273
40.0	379	385	404	426	435	406	
42.5	359	365	387	410	420	388	
45.0	339	345	368	393	403	369	
47.5	317	325	348	373	383	349	
50.0	297	303	327	352	361	327	284
52.5	274	281	304	328	336	304	
55.0	252	258	280	302	310	280	
57.5	229	236	256	275	282	255	
60.0	207	213	231	247	253	230	
62.5	185	190	205	219	224	205	250
65.0	163	168	179	191	195	179	
67.5	142	146	154	164	167	155	
70.0	122	124	130	137	139	130	
72.5	102	103	107	112	113	107	
75.0	82	83	84	87	89	85	177
77.5	64	64	64	65	66	64	
80.0	48	46	45	45	45	46	
82.5	32	30	28	27	25	28	
85.0	18	16	13	12	12	14	
87.5	6	5	4	4	3	4	19
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	1778 (	519)	1778 (	519)	1778 (	519)	1778 (	519)	1778 (	519)
30	1688 (	492)	1699 (	496)	1736 (	506)	1780 (	519)	1795 (	523)
40	1603 (	468)	1630 (	476)	1709 (	498)	1807 (	527)	1840 (	537)
45	1550 (	452)	1584 (	462)	1692 (	493)	1805 (	527)	1853 (	540)
50	1496 (	436)	1532 (	447)	1646 (	480)	1776 (	518)	1818 (	530)
55	1420 (	414)	1461 (	426)	1589 (	463)	1708 (	498)	1755 (	512)
60	1341 (	391)	1384 (	404)	1495 (	436)	1605 (	468)	1639 (	478)
65	1253 (	365)	1286 (	375)	1378 (	402)	1472 (	429)	1502 (	438)
70	1150 (	335)	1177 (	343)	1234 (	360)	1301 (	379)	1320 (	385)
75	1030 (	300)	1038 (	302)	1058 (	309)	1097 (	320)	1112 (	324)
80	887 (	258)	864 (	252)	843 (	246)	843 (	246)	833 (	243)
85	665 (	194)	602 (	175)	480 (	140)	460 (	134)	434 (	126)

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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	1.051	1.051	1.051	1.05	1.031	1.031	1.031	1.03	1.001	1.001	1.001	1.00	0.960	0.960	0.96	0.920	0.920	0.92	0.880	0.880	0.88	0.86			
1	0.970	0.930	0.890	0.86	0.950	0.910	0.880	0.85	0.930	0.890	0.860	0.83	0.860	0.830	0.81	0.820	0.800	0.78	0.790	0.780	0.76	0.74			
2	0.890	0.820	0.770	0.71	0.870	0.810	0.750	0.71	0.850	0.790	0.740	0.70	0.760	0.720	0.68	0.730	0.700	0.67	0.710	0.680	0.65	0.63			
3	0.820	0.730	0.660	0.60	0.800	0.710	0.650	0.60	0.780	0.700	0.640	0.59	0.680	0.620	0.58	0.650	0.610	0.57	0.630	0.600	0.56	0.55			
4	0.750	0.650	0.570	0.51	0.730	0.640	0.560	0.51	0.710	0.620	0.560	0.51	0.600	0.550	0.50	0.580	0.530	0.49	0.570	0.520	0.49	0.47			
5	0.690	0.570	0.490	0.43	0.670	0.560	0.490	0.43	0.650	0.550	0.480	0.43	0.530	0.470	0.43	0.520	0.460	0.42	0.500	0.460	0.42	0.40			
6	0.630	0.510	0.430	0.38	0.620	0.500	0.430	0.38	0.600	0.500	0.420	0.37	0.480	0.420	0.37	0.470	0.410	0.37	0.450	0.400	0.36	0.35			
7	0.580	0.460	0.380	0.33	0.570	0.450	0.380	0.33	0.550	0.450	0.380	0.32	0.430	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	0.28	0.520	0.410	0.330	0.28	0.510	0.400	0.330	0.28	0.390	0.320	0.28	0.380	0.320	0.28	0.370	0.310	0.28	0.26			
9	0.490	0.370	0.290	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	0.21	0.320	0.260	0.21	0.310	0.250	0.21	0.300	0.250	0.21	0.20			

LUMINAIRE INPUT WATTS 28.0

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.