



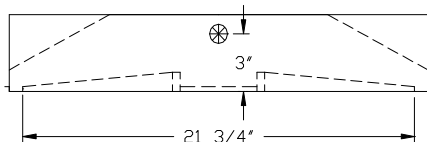
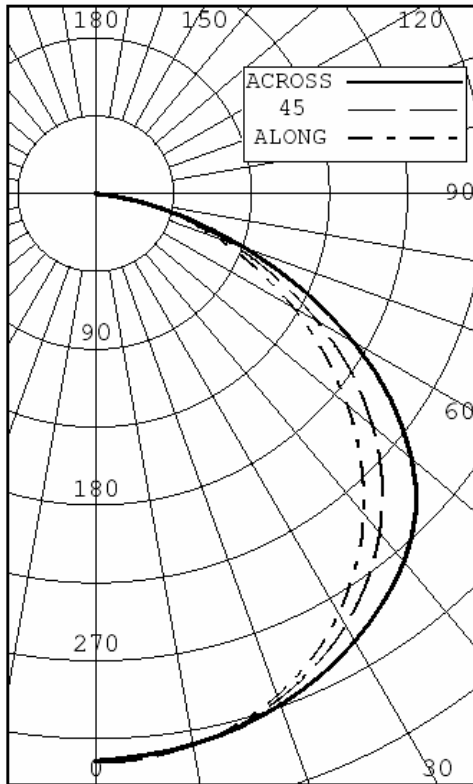
Lighting Sciences

www.lightingsciences.com

Lighting Sciences Inc.
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Scottsdale, Arizona 85260 USA
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CERTIFIED TEST REPORT No. 25687

FINELITE - 2' X 2' FLUORESCENT RECESSED LUMINAIRE, CAT# HPR-x-2X2-1T8-SCO
WHITE REFLECTOR, FROSTED PLASTIC SIDE LENSES & RECT PERF .080 LENS
ONE SYLVANIA 17 WATT T8 LAMP, CAT# F017/835/ECO. LUMEN RATING = 1350 LMS.
ONE SYLVANIA QHE1X32T8/UNV ISN SC BALLAST OPERATING AT 120 VAC AND 16 WATTS



INTENSITY (CANDLEPOWER) SUMMARY						OUTPUT LUMENS
ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	328	328	328	328	328	32
5	328	327	327	327	326	
10	324	323	324	324	323	
15	317	317	318	319	320	90
20	308	308	310	313	314	139
25	296	296	301	305	307	
30	281	282	288	296	299	
35	262	264	273	284	289	171
40	241	243	255	269	277	181
45	216	219	234	252	261	
50	189	193	209	229	238	
55	161	164	180	199	208	162
60	132	134	148	165	172	115
65	102	104	115	127	132	
70	75	76	82	89	92	
75	50	49	50	53	55	55
80	27	25	24	24	25	9
85	9	7	6	5	6	
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	260	19.25	27.27
0-40	431	31.93	45.24
0-60	774	57.35	81.25
0-90	953	70.58	100.00
40-90	522	38.65	54.76
60-90	179	13.24	18.75
90-180	0	0.00	0.00
0-180	953	70.58	100.00

** EFFICIENCY: 70.6% **

LUMINANCE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	991	1074	1200
55	908	1020	1180
65	785	884	1019
75	622	632	685
85	347	225	207

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

CERTIFIED BY:

Tan Levin

DATE:
JUL 17, 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	328	328	328	328	328	32
2.5	329	329	329	328	327	
5.0	328	327	327	327	326	
7.5	326	326	326	326	325	
10.0	324	323	324	324	323	
12.5	321	321	322	322	322	90
15.0	317	317	318	319	320	
17.5	313	313	315	316	317	
20.0	308	308	310	313	314	
22.5	302	302	306	309	311	
25.0	296	296	301	305	307	139
27.5	289	289	295	301	303	
30.0	281	282	288	296	299	
32.5	271	273	281	290	294	
35.0	262	264	273	284	289	
37.5	252	254	264	277	283	171
40.0	241	243	255	269	277	
42.5	229	231	245	262	270	
45.0	216	219	234	252	261	
47.5	203	206	222	242	251	
50.0	189	193	209	229	238	181
52.5	175	178	195	214	224	
55.0	161	164	180	199	208	
57.5	146	149	164	183	191	
60.0	132	134	148	165	172	
62.5	117	119	132	146	153	162
65.0	102	104	115	127	132	
67.5	89	90	98	108	112	
70.0	75	76	82	89	92	
72.5	62	62	66	70	73	
75.0	50	49	50	53	55	55
77.5	38	36	36	38	38	
80.0	27	25	24	24	25	
82.5	18	15	14	13	13	
85.0	9	7	6	5	6	
87.5	2	1	1	1	1	9
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	1062(	310)	1062(	310)	1062(	310)	1062(	310)	1062(	310)
30	1049(	306)	1055(	308)	1081(	315)	1108(	323)	1118(	326)
40	1017(	296)	1030(	300)	1079(	315)	1140(	332)	1170(	341)
45	991(	289)	1005(	293)	1074(	313)	1159(	338)	1200(	350)
50	954(	278)	974(	284)	1051(	306)	1156(	337)	1198(	349)
55	908(	265)	926(	270)	1020(	297)	1128(	329)	1180(	344)
60	852(	248)	870(	254)	959(	279)	1069(	312)	1116(	325)
65	785(	229)	801(	233)	884(	258)	976(	285)	1019(	297)
70	713(	208)	721(	210)	777(	226)	843(	246)	871(	254)
75	622(	181)	614(	179)	632(	184)	665(	194)	685(	200)
80	508(148)	466(136)	455(132)	450(131)	458(133)
85	347(101)	263(76)	225(65)	203(59)	207(60)

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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	0.860	0.860	0.860	0.86	0.840	0.840	0.840	0.84	0.820	0.820	0.820	0.82	0.780	0.780	0.78	0.750	0.750	0.75	0.720	0.720	0.72	0.71			
1	0.800	0.760	0.730	0.71	0.780	0.750	0.720	0.70	0.760	0.730	0.710	0.68	0.700	0.680	0.66	0.670	0.660	0.64	0.650	0.640	0.62	0.61			
2	0.730	0.670	0.630	0.59	0.710	0.660	0.620	0.58	0.700	0.650	0.610	0.57	0.620	0.590	0.56	0.600	0.570	0.55	0.580	0.560	0.53	0.52			
3	0.670	0.590	0.540	0.49	0.650	0.580	0.530	0.49	0.640	0.570	0.520	0.49	0.550	0.510	0.48	0.530	0.500	0.47	0.520	0.490	0.46	0.45			
4	0.610	0.530	0.470	0.42	0.600	0.520	0.460	0.42	0.580	0.510	0.460	0.41	0.490	0.450	0.41	0.480	0.440	0.40	0.460	0.430	0.40	0.38			
5	0.560	0.470	0.400	0.35	0.550	0.460	0.400	0.35	0.530	0.450	0.390	0.35	0.440	0.390	0.35	0.420	0.380	0.34	0.410	0.370	0.34	0.32			
6	0.520	0.420	0.350	0.31	0.500	0.410	0.350	0.31	0.490	0.400	0.340	0.30	0.390	0.340	0.30	0.380	0.330	0.30	0.370	0.330	0.29	0.28			
7	0.470	0.370	0.310	0.27	0.460	0.370	0.310	0.27	0.450	0.360	0.300	0.26	0.350	0.300	0.26	0.340	0.290	0.26	0.330	0.290	0.26	0.24			
8	0.440	0.330	0.270	0.23	0.430	0.330	0.270	0.23	0.420	0.320	0.270	0.23	0.310	0.260	0.23	0.310	0.260	0.22	0.300	0.250	0.22	0.21			
9	0.400	0.300	0.240	0.20	0.390	0.300	0.240	0.20	0.380	0.290	0.240	0.20	0.280	0.230	0.19	0.280	0.230	0.19	0.270	0.220	0.19	0.18			
10	0.370	0.270	0.210	0.17	0.360	0.270	0.210	0.17	0.350	0.260	0.210	0.17	0.260	0.210	0.17	0.250	0.200	0.17	0.240	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.