

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-H-835-ASY-DSO-ITL89599-ITL94139.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599-ITL94139.014 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/17

[ISSUEDATE]12/18/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-S-H-835-ASY-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 41.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 43.4 WATTS

[OTHER]see www.finelite.com for source files ITL89599 and ITL94139. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

[_ABSOLUTE LUMENS]4309

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4309
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	41.8
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.18 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10756	13595	13962
55	9780	12518	12518
65	8774	11122	10814
75	7803	9491	8989
85	6775	7182	6504

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	907.008	907.008	907.008	907.008	907.008	907.008	907.008	907.008	907.008	907.008
2.5	905.452	905.452	905.452	905.452	905.452	905.452	905.452	906.230	906.230	906.230
5.0	900.785	900.785	900.785	901.563	901.563	902.341	903.119	903.896	904.674	905.452
7.5	892.228	893.006	893.784	894.562	895.340	896.118	897.673	899.229	900.785	902.341
10.0	881.338	882.116	882.894	883.672	884.450	886.783	890.673	893.784	897.673	900.785
12.5	868.114	868.892	870.448	871.226	872.004	875.893	881.338	887.561	893.006	899.229
15.0	850.223	851.779	853.334	855.668	857.224	861.891	870.448	878.226	886.783	894.562
17.5	831.554	833.887	836.221	838.555	840.888	847.111	857.224	867.336	878.226	888.339
20.0	808.217	811.329	814.440	818.330	821.441	829.220	842.444	854.890	868.114	880.560
22.5	783.325	787.215	791.104	794.993	798.883	808.217	822.997	837.777	852.557	867.336
25.0	755.322	760.767	766.212	771.657	777.102	787.215	803.550	819.885	836.221	852.557
27.5	727.318	733.541	739.764	746.765	752.988	764.656	782.547	800.438	817.552	835.443
30.0	696.981	704.759	712.538	719.539	727.318	740.542	758.433	777.102	794.993	813.663
32.5	665.865	674.422	682.201	690.757	699.314	713.316	732.763	752.210	771.657	791.104
35.0	633.194	642.529	651.086	660.420	668.977	683.756	703.981	724.984	745.209	765.434
37.5	601.301	610.636	619.970	630.083	639.417	654.197	674.422	694.647	714.872	735.097
40.0	567.074	577.187	587.299	597.412	607.524	623.082	642.529	662.754	682.201	702.426
42.5	534.404	544.516	554.628	564.741	574.853	590.411	609.858	629.305	649.530	668.977
45.0	500.955	511.067	521.180	531.292	541.404	556.184	575.631	595.078	613.747	633.194
47.5	468.284	478.396	488.509	498.621	508.733	522.735	540.627	558.518	576.409	594.300
50.0	434.057	444.170	454.282	464.394	474.507	487.731	504.066	521.180	537.515	554.628
52.5	400.608	409.943	419.277	429.390	438.724	451.170	466.728	483.063	498.621	514.179
55.0	369.493	378.050	386.606	395.163	403.720	415.388	430.168	444.170	458.949	472.951
57.5	336.822	344.601	353.158	360.936	369.493	379.605	392.829	406.053	418.500	431.723
60.0	305.707	312.708	319.709	326.710	333.711	343.823	355.491	367.159	378.827	390.496
62.5	276.147	282.370	288.594	294.039	300.262	308.818	318.931	329.821	339.934	350.824
65.0	244.254	250.477	255.923	262.146	267.591	275.370	283.926	292.483	301.040	309.596
67.5	216.251	220.918	225.585	230.252	234.920	241.143	248.144	255.923	262.923	270.702
70.0	187.469	191.358	195.248	199.137	203.027	208.472	214.695	220.918	227.141	233.364
72.5	159.465	162.577	165.688	169.578	172.689	176.579	182.024	186.691	192.136	196.804
75.0	133.018	135.351	137.685	140.018	142.352	146.241	150.131	154.020	157.910	161.799
77.5	108.125	109.681	111.237	113.570	115.126	117.460	119.793	122.905	125.239	128.350
80.0	84.789	85.567	86.345	87.123	87.900	89.456	91.790	94.124	95.679	98.013
82.5	62.230	62.230	63.008	63.008	63.786	64.564	65.342	66.120	67.676	68.453
85.0	38.894	38.894	39.672	39.672	40.450	40.450	40.450	41.228	41.228	41.228
87.5	17.891	17.891	17.891	17.891	17.891	17.891	17.113	17.113	16.335	16.335
90.0	14.740	14.740	14.740	14.330	13.921	13.102	12.283	11.464	10.645	9.417
92.5	31.936	32.346	32.346	32.346	31.936	31.527	30.299	28.661	27.433	25.795
95.0	63.873	64.692	64.692	64.282	63.873	63.054	61.825	60.597	59.778	58.550
97.5	97.037	97.856	97.856	97.447	96.628	95.809	96.628	97.037	96.628	96.218
100.0	125.698	126.926	127.745	128.155	130.202	131.840	136.344	140.847	140.847	140.847
102.5	161.319	162.957	165.823	168.280	174.012	179.335	186.705	193.665	193.665	193.256
105.0	210.043	212.499	218.641	224.783	235.428	245.664	250.987	255.900	253.853	251.806
107.5	285.380	284.561	295.206	305.852	312.812	319.773	323.458	327.142	321.001	314.450
110.0	381.598	379.141	386.511	393.472	397.566	401.251	402.070	402.479	388.559	374.638
112.5	476.588	473.722	479.454	484.777	485.186	485.596	478.635	471.675	447.927	423.770
115.0	568.712	565.437	567.893	569.941	564.208	558.476	541.689	524.493	492.966	461.029
117.5	642.821	639.545	636.679	633.813	623.577	613.341	588.775	564.208	525.312	486.005
120.0	695.639	692.773	687.040	680.899	665.340	649.781	619.483	588.775	544.965	501.155
122.5	729.622	727.165	718.977	710.378	690.725	670.663	636.270	601.877	556.838	511.391
125.0	745.590	743.952	734.126	724.299	701.780	678.851	643.230	607.199	562.980	518.351
127.5	748.866	747.638	736.992	726.347	702.599	678.442	643.640	608.428	565.846	522.855
130.0	743.134	741.905	731.260	720.614	697.276	673.938	640.774	607.199	567.074	526.540
132.5	732.488	732.079	722.252	712.016	689.906	667.387	636.270	605.152	568.303	531.453

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CANDELA TABULATION - (Cont.)

135.0	720.614	719.795	710.378	700.961	680.489	659.608	631.766	603.515	569.941	536.366
137.5	708.741	707.103	698.914	690.316	671.891	653.057	628.081	602.696	572.397	541.689
140.0	696.048	695.229	688.269	680.899	664.521	647.734	625.215	602.696	574.854	547.012
142.5	685.812	685.403	679.261	673.119	658.380	643.640	623.577	603.105	577.720	552.335
145.0	677.214	676.804	671.482	665.750	652.647	639.545	621.530	603.515	580.995	558.476
147.5	669.434	668.615	664.112	659.198	647.734	635.860	619.892	603.924	584.271	564.208
150.0	660.836	660.836	656.742	652.647	642.821	632.585	618.664	604.743	587.546	569.941
152.5	653.876	653.057	650.191	646.915	638.726	630.128	618.254	605.971	590.003	574.035
155.0	648.144	646.915	644.459	642.002	634.632	627.262	616.617	605.562	591.231	576.491
157.5	642.411	641.183	638.726	636.270	630.128	623.577	613.750	603.515	590.003	576.491
160.0	634.632	633.404	630.947	628.490	622.758	617.026	608.428	599.420	587.137	574.444
162.5	624.396	623.577	621.120	618.664	613.750	608.837	600.649	592.050	581.405	570.350
165.0	611.294	610.475	608.018	605.562	601.058	596.554	590.003	583.043	574.035	564.618
167.5	595.735	594.916	592.869	590.413	587.137	583.452	577.720	571.988	564.618	556.838
170.0	577.720	576.901	575.263	573.625	570.759	567.484	563.389	559.295	553.972	548.240
172.5	559.295	558.886	557.657	556.019	554.382	552.335	549.468	546.193	542.099	537.595
175.0	539.642	539.232	538.414	537.185	535.957	534.729	533.091	531.044	528.587	526.130
177.5	519.579	519.579	519.170	518.760	518.351	517.532	516.713	515.894	515.076	513.847
180.0	500.336	500.336	500.336	500.336	500.336	500.336	500.336	500.336	500.336	500.336

Vert. Angles

Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	907.008	907.008	907.008	907.008	907.008	907.008	907.008	907.008	907.008	907.008
2.5	906.230	907.008	907.008	907.786	907.786	907.786	907.786	907.786	907.786	907.786
5.0	906.230	907.008	907.786	908.564	909.342	910.120	910.120	910.898	910.898	910.898
7.5	903.896	906.230	907.786	910.120	911.675	912.453	913.231	914.787	915.565	914.787
10.0	904.674	907.786	911.675	915.565	917.898	918.676	920.232	921.010	922.566	921.010
12.5	903.896	909.342	914.009	919.454	922.566	924.121	924.899	926.455	928.011	926.455
15.0	900.785	907.008	914.009	920.232	924.121	925.677	928.011	929.567	931.122	929.567
17.5	896.118	903.896	911.675	919.454	924.121	926.455	928.789	930.345	932.678	930.345
20.0	889.117	897.673	906.230	914.787	920.232	922.566	924.899	927.233	929.567	927.233
22.5	876.671	886.783	896.118	906.230	912.453	914.787	917.120	920.232	922.566	920.232
25.0	862.669	873.559	883.672	893.784	900.785	903.119	905.452	907.786	910.120	907.786
27.5	846.333	856.446	867.336	877.449	884.450	886.783	889.117	891.451	893.784	891.451
30.0	824.553	834.665	845.556	855.668	861.891	864.225	865.780	868.114	869.670	868.114
32.5	801.216	811.329	821.441	831.554	836.999	838.555	840.110	841.666	843.222	841.666
35.0	774.769	783.325	792.660	801.216	806.662	807.439	808.217	809.773	810.551	809.773
37.5	743.653	751.432	759.989	768.545	772.435	773.213	773.991	773.991	774.769	773.991
40.0	710.205	717.983	724.984	732.763	736.652	735.875	735.875	735.097	735.097	735.097
42.5	675.200	681.423	686.868	693.091	696.203	695.425	694.647	693.869	693.091	693.869
45.0	637.862	642.529	647.974	652.641	654.197	653.419	652.641	651.086	650.308	651.086
47.5	598.190	602.079	605.968	609.858	611.414	610.636	609.858	608.302	607.524	608.302
50.0	557.740	560.851	563.185	566.297	567.074	565.519	563.185	561.629	560.074	561.629
52.5	516.512	518.846	521.180	523.513	523.513	521.957	519.624	518.068	516.512	518.068
55.0	474.507	476.063	476.841	478.396	478.396	476.841	476.063	474.507	472.951	474.507
57.5	432.501	433.279	434.057	434.835	434.835	432.501	430.168	427.834	425.500	427.834
60.0	391.274	392.051	392.829	393.607	392.829	390.496	388.162	385.829	383.495	385.829
62.5	350.824	350.824	350.046	350.046	349.268	347.712	345.379	343.823	342.267	343.823
65.0	309.596	309.596	308.818	308.818	308.041	306.485	304.151	302.595	301.040	302.595
67.5	269.924	269.924	269.147	268.369	267.591	266.035	263.701	262.146	260.590	262.146
70.0	232.586	231.808	231.030	230.252	228.697	227.141	225.585	224.029	222.474	224.029
72.5	196.026	195.248	194.470	193.692	192.136	190.581	189.803	188.247	186.691	188.247
75.0	161.021	160.243	159.465	158.688	157.132	156.354	155.576	154.020	153.242	154.020
77.5	127.572	126.794	126.017	125.239	123.683	122.905	122.127	121.349	120.571	121.349
80.0	97.235	95.679	94.901	94.124	93.346	92.568	91.790	91.012	90.234	91.012

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CANDELA TABULATION - (Cont.)

82.5	67.676	66.898	66.120	65.342	65.342	64.564	63.786	63.786	63.008	63.786
85.0	40.450	40.450	39.672	38.894	38.894	38.116	38.116	37.338	37.338	37.338
87.5	16.335	16.335	15.558	15.558	15.558	14.780	14.780	14.002	14.002	14.002
90.0	8.189	6.960	5.732	4.504	3.685	2.457	1.638	0.409	0.000	0.409
92.5	25.795	25.795	24.566	22.929	22.519	21.700	19.653	17.197	9.827	12.283
95.0	57.731	56.912	54.865	52.818	49.952	47.086	41.353	35.621	24.157	25.795
97.5	95.400	94.171	90.077	85.982	79.841	73.699	63.054	51.999	39.306	39.306
100.0	138.800	136.753	128.974	120.785	110.958	100.722	84.345	67.967	54.865	52.818
102.5	187.933	182.201	169.918	157.225	140.847	124.060	103.998	83.526	70.014	66.739
105.0	240.751	229.696	210.862	192.027	168.280	144.532	122.423	99.903	85.573	80.250
107.5	296.844	278.829	250.168	221.507	192.437	163.367	139.619	115.462	101.541	94.990
110.0	346.796	318.954	282.923	246.483	213.318	180.154	155.997	131.840	117.509	110.139
112.5	386.921	349.662	308.308	266.955	232.153	196.941	171.965	146.989	133.477	125.289
115.0	417.219	373.000	329.190	284.970	248.940	212.909	188.342	163.776	150.264	140.438
117.5	438.101	390.196	345.158	300.120	264.498	228.468	204.720	180.563	167.461	155.997
120.0	452.431	403.298	359.079	314.450	279.647	244.845	221.507	197.760	184.248	171.965
122.5	463.077	414.353	371.362	328.371	294.797	261.223	238.294	214.956	201.035	187.933
125.0	471.675	424.589	383.236	341.882	309.946	277.600	254.672	231.743	217.822	204.311
127.5	479.045	434.825	395.519	356.213	325.095	293.978	271.049	248.121	234.200	220.279
130.0	486.005	445.471	408.212	370.543	340.654	310.765	288.246	265.727	251.396	236.656
132.5	493.375	455.297	420.495	385.283	356.622	327.552	305.442	283.332	268.593	253.853
135.0	501.155	465.943	432.778	399.613	371.772	343.930	322.639	300.938	286.199	270.640
137.5	509.343	476.998	445.880	414.353	387.330	359.898	339.426	318.544	303.805	287.836
140.0	517.532	487.643	458.573	429.093	402.889	376.275	356.213	336.150	321.001	305.033
142.5	525.721	498.698	471.265	443.833	418.038	392.243	373.409	354.166	338.197	322.229
145.0	534.319	509.753	483.549	456.935	432.369	407.802	389.377	370.953	355.394	339.835
147.5	542.099	519.989	495.013	469.628	446.290	422.952	405.346	387.740	372.181	357.032
150.0	549.468	528.587	504.839	480.683	458.982	437.282	420.495	403.708	389.377	373.819
152.5	555.201	536.366	513.847	490.918	470.856	450.793	434.825	418.857	405.346	390.196
155.0	559.295	541.689	520.808	499.517	481.092	462.667	447.927	433.188	420.495	405.755
157.5	560.933	545.374	526.130	506.887	490.509	473.722	460.620	447.108	434.825	420.904
160.0	560.933	547.012	529.815	512.619	497.879	483.139	471.265	459.392	447.927	435.235
162.5	558.886	547.012	531.862	516.713	504.430	491.737	481.092	470.447	459.801	448.337
165.0	554.791	544.965	532.272	519.579	508.934	498.288	489.281	479.864	470.447	460.620
167.5	549.059	541.280	531.044	520.398	511.800	502.792	495.422	487.643	479.454	470.856
170.0	542.099	535.548	527.768	519.579	513.028	506.477	500.336	493.785	486.415	479.864
172.5	533.091	528.587	523.264	517.532	512.619	507.706	502.792	497.879	492.147	487.234
175.0	523.264	520.398	517.123	513.438	510.162	506.887	503.611	500.336	497.060	493.375
177.5	512.619	510.981	509.343	507.296	506.068	504.430	502.792	501.155	499.517	497.879
180.0	500.336	500.336	500.336	500.336	500.336	500.336	500.336	500.336	500.336	500.336

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	907.008	907.008	907.008	907.008	907.008	907.008	907.008	907.008	907.008	907.008
2.5	907.786	907.786	907.786	907.786	907.008	907.008	906.230	906.230	906.230	906.230
5.0	910.120	910.120	909.342	908.564	907.786	907.008	906.230	905.452	904.674	903.896
7.5	913.231	912.453	911.675	910.120	907.786	906.230	903.896	902.341	900.785	899.229
10.0	920.232	918.676	917.898	915.565	911.675	907.786	904.674	900.785	897.673	893.784
12.5	924.899	924.121	922.566	919.454	914.009	909.342	903.896	899.229	893.006	887.561
15.0	928.011	925.677	924.121	920.232	914.009	907.008	900.785	894.562	886.783	878.226
17.5	928.789	926.455	924.121	919.454	911.675	903.896	896.118	888.339	878.226	867.336
20.0	924.899	922.566	920.232	914.787	906.230	897.673	889.117	880.560	868.114	854.890
22.5	917.120	914.787	912.453	906.230	896.118	886.783	876.671	867.336	852.557	837.777
25.0	905.452	903.119	900.785	893.784	883.672	873.559	862.669	852.557	836.221	819.885
27.5	889.117	886.783	884.450	877.449	867.336	856.446	846.333	835.443	817.552	800.438

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-H-835-ASY-DSO-ITL89599-ITL94139.014.IES

CANDELA TABULATION - (Cont.)

30.0	865.780	864.225	861.891	855.668	845.556	834.665	824.553	813.663	794.993	777.102
32.5	840.110	838.555	836.999	831.554	821.441	811.329	801.216	791.104	771.657	752.210
35.0	808.217	807.439	806.662	801.216	792.660	783.325	774.769	765.434	745.209	724.984
37.5	773.991	773.213	772.435	768.545	759.989	751.432	743.653	735.097	714.872	694.647
40.0	735.875	735.875	736.652	732.763	724.984	717.983	710.205	702.426	682.201	662.754
42.5	694.647	695.425	696.203	693.091	686.868	681.423	675.200	668.977	649.530	629.305
45.0	652.641	653.419	654.197	652.641	647.974	642.529	637.862	633.194	613.747	595.078
47.5	609.858	610.636	611.414	609.858	605.968	602.079	598.190	594.300	576.409	558.518
50.0	563.185	565.519	567.074	566.297	563.185	560.851	557.740	554.628	537.515	521.180
52.5	519.624	521.957	523.513	523.513	521.180	518.846	516.512	514.179	498.621	483.063
55.0	476.063	476.841	478.396	478.396	476.841	476.063	474.507	472.951	458.949	444.170
57.5	430.168	432.501	434.835	434.835	434.057	433.279	432.501	431.723	418.500	406.053
60.0	388.162	390.496	392.829	393.607	392.829	392.051	391.274	390.496	378.827	367.159
62.5	345.379	347.712	349.268	350.046	350.046	350.824	350.824	350.824	339.934	329.821
65.0	304.151	306.485	308.041	308.818	308.818	309.596	309.596	309.596	301.040	292.483
67.5	263.701	266.035	267.591	268.369	269.147	269.924	269.924	270.702	262.923	255.923
70.0	225.585	227.141	228.697	230.252	231.030	231.808	232.586	233.364	227.141	220.918
72.5	189.803	190.581	192.136	193.692	194.470	195.248	196.026	196.804	192.136	186.691
75.0	155.576	156.354	157.132	158.688	159.465	160.243	161.021	161.799	157.910	154.020
77.5	122.127	122.905	123.683	125.239	126.017	126.794	127.572	128.350	125.239	122.905
80.0	91.790	92.568	93.346	94.124	94.901	95.679	97.235	98.013	95.679	94.124
82.5	63.786	64.564	65.342	65.342	66.120	66.898	67.676	68.453	67.676	66.120
85.0	38.116	38.116	38.894	38.894	39.672	40.450	40.450	41.228	41.228	41.228
87.5	14.780	14.780	15.558	15.558	15.558	16.335	16.335	16.335	16.335	17.113
90.0	1.638	2.457	3.685	4.504	5.323	6.551	7.370	8.189	8.598	9.417
92.5	12.693	13.102	13.511	14.330	15.149	15.559	16.378	17.197	17.606	17.606
95.0	26.614	27.023	27.842	28.661	29.889	31.117	32.346	33.574	33.574	33.574
97.5	40.125	40.944	41.763	42.991	45.038	46.676	48.723	50.361	51.180	51.589
100.0	54.046	54.865	56.093	57.731	59.778	61.825	64.282	66.329	67.558	69.195
102.5	68.376	70.014	71.652	73.699	76.156	78.612	81.069	83.526	85.163	86.392
105.0	82.297	84.754	86.801	89.667	93.352	96.628	100.313	103.588	104.407	105.226
107.5	97.037	99.085	101.132	103.998	107.683	111.368	115.462	119.147	120.785	122.423
110.0	111.368	112.596	113.824	117.100	121.604	126.108	131.021	135.525	137.162	138.800
112.5	125.698	126.108	126.517	129.792	135.115	140.438	146.170	151.493	153.540	155.587
115.0	140.029	139.619	139.210	141.666	147.808	153.949	160.091	166.233	169.099	171.965
117.5	154.359	152.312	150.674	153.131	159.682	166.642	173.193	179.744	183.429	187.114
120.0	169.099	165.823	162.957	164.595	171.555	178.106	185.067	191.618	196.122	200.626
122.5	183.429	179.335	174.831	176.059	182.610	189.571	196.122	202.673	207.995	213.318
125.0	198.578	193.256	187.524	187.933	194.075	200.216	206.358	212.499	218.641	225.192
127.5	213.318	206.358	199.397	198.988	204.311	210.043	215.365	221.098	228.058	235.019
130.0	228.058	219.869	211.271	209.633	214.137	219.050	223.554	228.468	235.837	243.207
132.5	243.617	233.381	223.145	220.279	223.964	227.649	231.743	235.428	242.388	249.349
135.0	258.766	246.892	235.019	230.515	233.381	236.247	239.113	241.979	248.530	254.672
137.5	274.325	260.813	247.302	241.570	243.207	244.436	246.073	247.711	253.443	259.175
140.0	290.293	275.553	260.813	253.443	253.443	253.853	253.853	253.853	258.766	263.270
142.5	306.671	291.521	275.963	267.364	265.317	263.679	261.632	259.994	263.679	267.364
145.0	323.867	307.899	291.931	282.104	278.010	274.325	270.230	266.136	268.593	271.049
147.5	340.654	324.686	308.308	296.844	290.702	284.561	278.419	272.278	273.915	275.553
150.0	357.032	340.245	323.458	311.174	303.395	295.206	287.427	279.238	280.057	280.466
152.5	373.409	357.032	340.245	327.142	317.316	307.899	298.072	288.246	287.427	286.608
155.0	389.377	373.409	357.032	343.520	332.875	322.229	311.584	300.938	298.482	296.025
157.5	404.936	388.968	373.000	359.898	349.662	339.426	328.780	318.544	313.631	309.127
160.0	420.495	406.164	391.425	379.141	368.905	358.669	348.843	338.607	332.056	325.505
162.5	435.235	422.542	409.440	397.976	388.149	378.323	368.496	358.669	352.118	345.567
165.0	449.565	438.920	427.865	417.629	407.802	398.385	388.559	378.732	373.000	367.677
167.5	461.848	452.841	443.833	434.825	426.227	417.629	409.031	400.432	395.110	389.787

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-H-835-ASY-DSO-ITL89599-ITL94139.014.IES

CANDELA TABULATION - (Cont.)

170.0	472.494	465.533	458.163	451.203	444.652	437.691	431.140	424.589	419.676	414.763
172.5	481.911	476.998	471.675	466.762	461.848	457.344	452.431	447.518	443.833	440.148
175.0	490.100	486.415	483.139	479.864	476.998	474.132	470.856	467.990	465.533	463.486
177.5	496.241	494.194	492.556	490.918	489.690	488.462	486.824	485.596	484.777	483.549
180.0	500.336	500.336	500.336	500.336	500.336	500.336	500.336	500.336	500.336	500.336

Vert. Horizontal Angles

	150	155	160	165	170	175	180
0.0	907.008	907.008	907.008	907.008	907.008	907.008	907.008
2.5	905.452	905.452	905.452	905.452	905.452	905.452	905.452
5.0	903.119	902.341	901.563	901.563	900.785	900.785	900.785
7.5	897.673	896.118	895.340	894.562	893.784	893.006	892.228
10.0	890.673	886.783	884.450	883.672	882.894	882.116	881.338
12.5	881.338	875.893	872.004	871.226	870.448	868.892	868.114
15.0	870.448	861.891	857.224	855.668	853.334	851.779	850.223
17.5	857.224	847.111	840.888	838.555	836.221	833.887	831.554
20.0	842.444	829.220	821.441	818.330	814.440	811.329	808.217
22.5	822.997	808.217	798.883	794.993	791.104	787.215	783.325
25.0	803.550	787.215	777.102	771.657	766.212	760.767	755.322
27.5	782.547	764.656	752.988	746.765	739.764	733.541	727.318
30.0	758.433	740.542	727.318	719.539	712.538	704.759	696.981
32.5	732.763	713.316	699.314	690.757	682.201	674.422	665.865
35.0	703.981	683.756	668.977	660.420	651.086	642.529	633.194
37.5	674.422	654.197	639.417	630.083	619.970	610.636	601.301
40.0	642.529	623.082	607.524	597.412	587.299	577.187	567.074
42.5	609.858	590.411	574.853	564.741	554.628	544.516	534.404
45.0	575.631	556.184	541.404	531.292	521.180	511.067	500.955
47.5	540.627	522.735	508.733	498.621	488.509	478.396	468.284
50.0	504.066	487.731	474.507	464.394	454.282	444.170	434.057
52.5	466.728	451.170	438.724	429.390	419.277	409.943	400.608
55.0	430.168	415.388	403.720	395.163	386.606	378.050	369.493
57.5	392.829	379.605	369.493	360.936	353.158	344.601	336.822
60.0	355.491	343.823	333.711	326.710	319.709	312.708	305.707
62.5	318.931	308.818	300.262	294.039	288.594	282.370	276.147
65.0	283.926	275.370	267.591	262.146	255.923	250.477	244.254
67.5	248.144	241.143	234.920	230.252	225.585	220.918	216.251
70.0	214.695	208.472	203.027	199.137	195.248	191.358	187.469
72.5	182.024	176.579	172.689	169.578	165.688	162.577	159.465
75.0	150.131	146.241	142.352	140.018	137.685	135.351	133.018
77.5	119.793	117.460	115.126	113.570	111.237	109.681	108.125
80.0	91.790	89.456	87.900	87.123	86.345	85.567	84.789
82.5	65.342	64.564	63.786	63.008	63.008	62.230	62.230
85.0	40.450	40.450	40.450	39.672	39.672	38.894	38.894
87.5	17.113	17.891	17.891	17.891	17.891	17.891	17.891
90.0	9.827	10.236	10.645	10.645	11.055	11.055	11.055
92.5	18.015	18.425	18.425	18.425	18.834	18.834	18.834
95.0	33.983	33.983	33.983	33.574	33.165	32.755	32.346
97.5	52.408	52.818	53.227	52.818	52.408	52.408	51.999
100.0	70.424	71.652	72.471	72.471	72.061	72.061	72.061
102.5	88.030	89.258	90.077	90.077	90.486	90.486	90.486
105.0	106.454	107.273	107.683	107.683	107.273	107.273	107.273
107.5	123.651	125.289	125.698	125.289	124.879	124.470	124.060
110.0	140.029	141.666	142.485	142.485	142.485	142.485	142.485
112.5	157.634	159.682	160.500	160.500	160.500	160.500	160.500
115.0	174.831	177.697	178.925	179.335	179.335	179.744	179.744

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-H-835-ASY-DSO-ITL89599-ITL94139.014.IES****CANDELA TABULATION - (Cont.)**

117.5	190.799	194.484	196.122	196.531	196.941	197.350	197.760
120.0	205.129	209.633	212.499	212.909	213.318	214.137	214.547
122.5	218.641	223.964	227.239	228.058	228.468	229.286	230.105
125.0	231.334	237.475	241.160	241.979	242.798	243.617	244.436
127.5	241.979	248.940	253.034	254.262	255.491	256.719	257.947
130.0	250.168	257.538	262.042	264.089	266.136	267.774	269.821
132.5	256.309	263.270	267.774	270.230	273.096	275.553	278.010
135.0	261.223	267.364	271.868	274.325	277.191	279.647	282.104
137.5	264.908	270.640	274.734	276.781	279.238	281.285	283.742
140.0	268.183	272.687	276.372	278.419	280.466	282.514	284.561
142.5	271.049	274.734	277.191	278.829	280.466	282.104	283.742
145.0	273.915	276.372	278.010	279.238	280.466	281.695	282.923
147.5	276.781	278.419	279.647	280.466	281.285	282.104	282.923
150.0	281.285	281.695	282.104	282.514	282.923	282.923	283.332
152.5	286.199	285.380	284.970	284.970	284.970	284.970	284.970
155.0	293.568	291.112	289.474	289.065	288.655	287.836	287.427
157.5	304.214	299.710	296.844	296.025	294.797	293.978	293.159
160.0	318.954	312.403	308.308	306.671	305.033	303.395	301.757
162.5	339.016	332.465	327.961	325.505	322.639	320.182	317.725
165.0	361.945	356.622	352.528	350.071	347.205	344.748	342.292
167.5	384.464	379.141	375.866	373.819	371.772	370.134	368.087
170.0	409.440	404.527	401.251	399.204	397.157	395.519	393.472
172.5	436.463	432.778	430.321	428.684	427.455	425.818	424.180
175.0	461.029	458.982	457.344	456.526	455.297	454.478	453.659
177.5	482.730	481.501	480.683	480.273	479.864	479.045	478.635
180.0	500.336	500.336	500.336	500.336	500.336	500.336	500.336

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-H-835-ASY-DSO-ITL89599-ITL94139.014.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	338.20	N.A.	7.80
0-30	725.48	N.A.	16.80
0-40	1188.8	N.A.	27.60
0-60	2051.53	N.A.	47.60
0-80	2501.04	N.A.	58.00
0-90	2547.55	N.A.	59.10
10-90	2461.27	N.A.	57.10
20-40	850.60	N.A.	19.70
20-50	1315.06	N.A.	30.50
40-70	1150.9	N.A.	26.70
60-80	449.51	N.A.	10.40
70-80	161.35	N.A.	3.70
80-90	46.50	N.A.	1.10
90-110	212.23	N.A.	4.90
90-120	492.52	N.A.	11.40
90-130	814.00	N.A.	18.90
90-150	1376.58	N.A.	31.90
90-180	1761.2	N.A.	40.90
110-180	1548.98	N.A.	35.90
0-180	4308.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.28
10-20	251.92
20-30	387.28
30-40	463.32
40-50	464.46
50-60	398.27
60-70	288.17
70-80	161.35
80-90	46.50
90-100	49.69
100-110	162.54
110-120	280.29
120-130	321.47
130-140	302.24
140-150	260.34
150-160	204.06
160-170	133.46
170-180	47.10

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-H-835-ASY-DSO-ITL89599-ITL94139.014.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

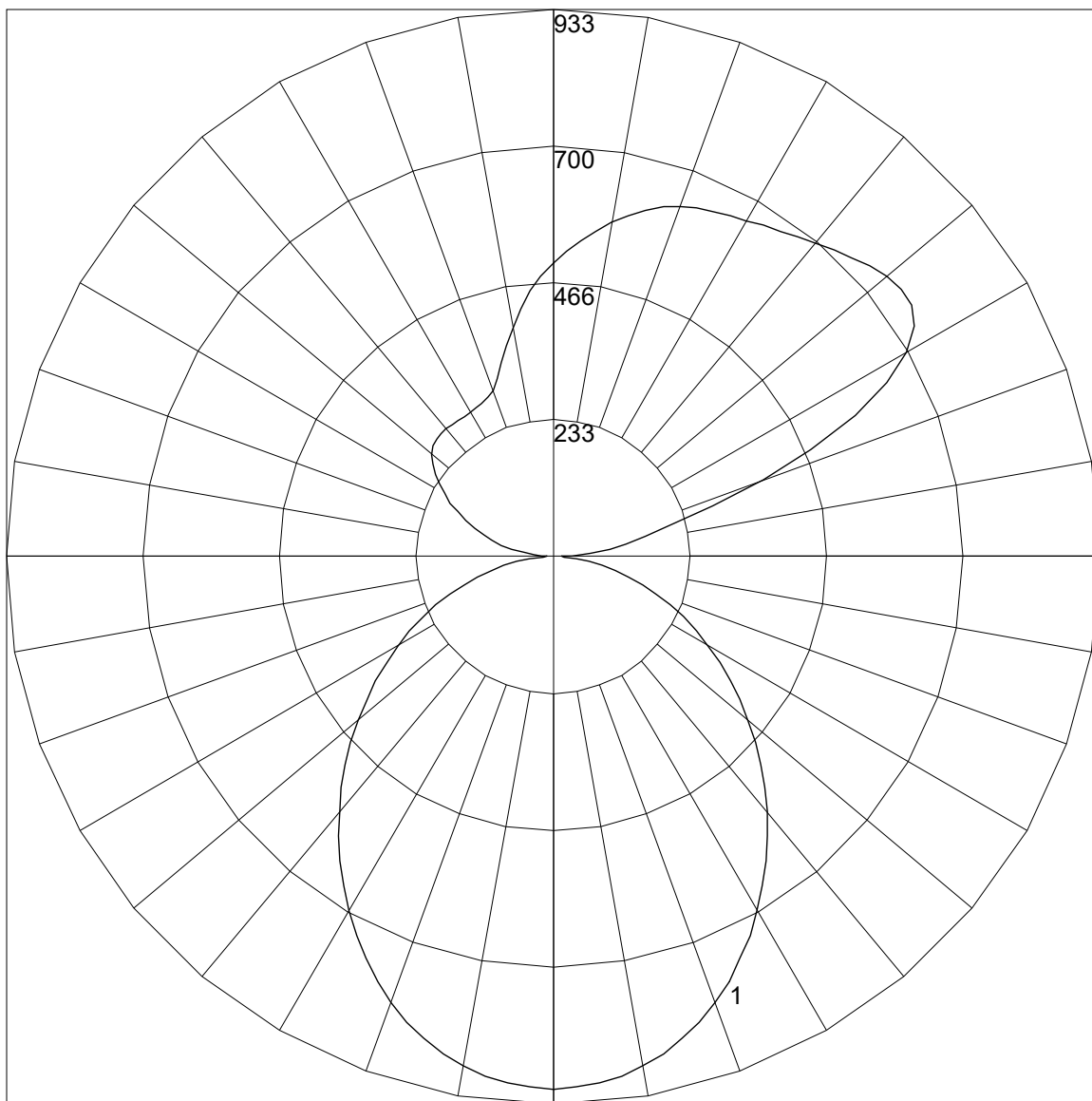
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	95	91	88	93	89	86	83	78	75	73	67	65	63	57	56	54	50
2	91	83	77	72	85	78	72	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	44	41	39	35
4	76	65	57	51	70	61	54	48	53	48	43	46	42	38	40	36	34	30
5	70	58	50	43	65	54	47	41	48	42	37	41	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	32	37	33	29	32	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	19	17	15

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-H-835-ASY-DSO-ITL89599-ITL94139.014.IES

POLAR GRAPH



Maximum Candela = 932.678 Located At Horizontal Angle = 90, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)