

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-H-H-835-ASY-DSO-ITL89599-ITL94139.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599-ITL94139.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/17

[ISSUEDATE]12/18/2020

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 55.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.6 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]5891

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5894
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	55.6
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	28.000	28.000	28.000	27.222	26.444	24.889	23.333	21.778	20.222	17.889
92.5	60.666	61.444	61.444	61.444	60.666	59.889	57.555	54.444	52.111	49.000
95.0	121.333	122.888	122.888	122.110	121.333	119.777	117.444	115.110	113.555	111.222
97.5	184.332	185.888	185.888	185.110	183.554	181.999	183.554	184.332	183.554	182.777
100.0	238.776	241.110	242.665	243.443	247.332	250.443	258.998	267.554	267.554	267.554
102.5	306.443	309.554	314.998	319.665	330.553	340.665	354.664	367.887	367.887	367.109
105.0	398.998	403.664	415.331	426.997	447.219	466.664	476.775	486.108	482.219	478.330
107.5	542.108	540.552	560.774	580.996	594.219	607.441	614.441	621.441	609.774	597.330
110.0	724.885	720.218	734.218	747.440	755.218	762.217	763.773	764.551	738.107	711.662
112.5	905.328	899.883	910.772	920.883	921.661	922.439	909.217	895.995	850.884	804.995
115.0	1080.327	1074.104	1078.771	1082.660	1071.771	1060.882	1028.994	996.327	936.439	875.772
117.5	1221.104	1214.881	1209.437	1203.993	1184.548	1165.104	1118.438	1071.771	997.883	923.217
120.0	1321.436	1315.992	1305.103	1293.437	1263.881	1234.326	1176.771	1118.438	1035.216	951.994
122.5	1385.992	1381.325	1365.769	1349.436	1312.103	1273.992	1208.659	1143.326	1057.771	971.438
125.0	1416.325	1413.214	1394.547	1375.880	1333.103	1289.548	1221.881	1153.437	1069.438	984.661
127.5	1422.547	1420.214	1399.992	1379.769	1334.658	1288.770	1222.659	1155.771	1074.882	993.216
130.0	1411.658	1409.325	1389.102	1368.880	1324.547	1280.214	1217.215	1153.437	1077.216	1000.216
132.5	1391.436	1390.658	1371.992	1352.547	1310.547	1267.770	1208.659	1149.549	1079.549	1009.549

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DSO-ITL89599-ITL94139.001.IES

CANDELA TABULATION - (Cont.)

135.0	1368.880	1367.325	1349.436	1331.547	1292.659	1252.992	1200.104	1146.437	1082.660	1018.883
137.5	1346.325	1343.214	1327.659	1311.325	1276.325	1240.548	1193.104	1144.882	1087.327	1028.994
140.0	1322.214	1320.659	1307.436	1293.437	1262.326	1230.437	1187.659	1144.882	1091.993	1039.105
142.5	1302.770	1301.992	1290.325	1278.659	1250.659	1222.659	1184.548	1145.660	1097.438	1049.216
145.0	1286.437	1285.659	1275.548	1264.659	1239.770	1214.881	1180.659	1146.437	1103.660	1060.882
147.5	1271.659	1270.103	1261.548	1252.215	1230.437	1207.881	1177.548	1147.215	1109.882	1071.771
150.0	1255.326	1255.326	1247.548	1239.770	1221.104	1201.659	1175.215	1148.771	1116.104	1082.660
152.5	1242.103	1240.548	1235.103	1228.881	1213.326	1196.993	1174.437	1151.104	1120.771	1090.438
155.0	1231.215	1228.881	1224.215	1219.548	1205.548	1191.548	1171.326	1150.326	1123.104	1095.104
157.5	1220.326	1217.993	1213.326	1208.659	1196.993	1184.548	1165.882	1146.437	1120.771	1095.104
160.0	1205.548	1203.215	1198.548	1193.882	1182.993	1172.104	1155.771	1138.660	1115.326	1091.216
162.5	1186.104	1184.548	1179.882	1175.215	1165.882	1156.549	1140.993	1124.660	1104.438	1083.438
165.0	1161.215	1159.659	1154.993	1150.326	1141.771	1133.215	1120.771	1107.549	1090.438	1072.549
167.5	1131.660	1130.104	1126.215	1121.549	1115.326	1108.326	1097.438	1086.549	1072.549	1057.771
170.0	1097.438	1095.882	1092.771	1089.660	1084.216	1077.993	1070.216	1062.438	1052.327	1041.438
172.5	1062.438	1061.660	1059.327	1056.216	1053.105	1049.216	1043.771	1037.549	1029.772	1021.216
175.0	1025.105	1024.327	1022.771	1020.438	1018.105	1015.771	1012.660	1008.772	1004.105	999.438
177.5	986.994	986.994	986.216	985.438	984.661	983.105	981.549	979.994	978.438	976.105
180.0	950.439	950.439	950.439	950.439	950.439	950.439	950.439	950.439	950.439	950.439

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	15.556	13.222	10.889	8.556	7.000	4.667	3.111	0.778	0.000	0.778
92.5	49.000	49.000	46.666	43.555	42.778	41.222	37.333	32.666	18.667	23.333
95.0	109.666	108.111	104.222	100.333	94.888	89.444	78.555	67.666	45.889	49.000
97.5	181.221	178.888	171.110	163.332	151.666	139.999	119.777	98.777	74.666	74.666
100.0	263.665	259.776	244.999	229.443	210.776	191.332	160.221	129.110	104.222	100.333
102.5	356.998	346.109	322.776	298.665	267.554	235.665	197.554	158.666	132.999	126.777
105.0	457.330	436.331	400.553	364.776	319.665	274.554	232.554	189.777	162.555	152.444
107.5	563.885	529.663	475.219	420.775	365.553	310.331	265.221	219.332	192.888	180.443
110.0	658.774	605.885	537.441	468.219	405.220	342.220	296.332	250.443	223.221	209.221
112.5	734.995	664.218	585.663	507.108	440.997	374.109	326.665	279.221	253.554	237.999
115.0	792.551	708.551	625.330	541.330	472.886	404.442	357.776	311.109	285.443	266.776
117.5	832.217	741.218	655.663	570.108	502.441	433.997	388.887	342.998	318.109	296.332
120.0	859.439	766.106	682.107	597.330	531.219	465.108	420.775	375.664	349.998	326.665
122.5	879.661	787.106	705.440	623.774	559.997	496.219	452.664	408.331	381.887	356.998
125.0	895.995	806.551	727.995	649.440	588.774	527.330	483.775	440.219	413.775	388.109
127.5	909.994	825.995	751.329	676.663	617.552	558.441	514.886	471.330	444.886	418.442
130.0	923.217	846.217	775.440	703.885	647.107	590.330	547.552	504.775	477.553	449.553
132.5	937.216	864.884	798.773	731.884	677.440	622.218	580.219	538.219	510.219	482.219
135.0	951.994	885.106	822.106	759.106	706.218	653.329	612.885	571.663	543.663	514.108
137.5	967.550	906.106	846.995	787.106	735.773	683.663	644.774	605.107	577.107	546.774
140.0	983.105	926.328	871.106	815.106	765.329	714.773	676.663	638.552	609.774	579.441
142.5	998.660	947.327	895.217	843.106	794.106	745.106	709.329	672.774	642.441	612.107
145.0	1014.994	968.327	918.550	867.995	821.328	774.662	739.662	704.662	675.107	645.552
147.5	1029.772	987.772	940.328	892.106	847.773	803.439	769.995	736.551	706.996	678.218
150.0	1043.771	1004.105	958.994	913.106	871.884	830.662	798.773	766.884	739.662	710.107
152.5	1054.660	1018.883	976.105	932.550	894.439	856.328	825.995	795.662	769.995	741.218
155.0	1062.438	1028.994	989.327	948.883	913.883	878.884	850.884	822.884	798.773	770.773
157.5	1065.549	1035.994	999.438	962.883	931.772	899.883	874.995	849.328	825.995	799.551
160.0	1065.549	1039.105	1006.438	973.772	945.772	917.772	895.217	872.661	850.884	826.773
162.5	1061.660	1039.105	1010.327	981.549	958.216	934.105	913.883	893.661	873.439	851.661
165.0	1053.882	1035.216	1011.105	986.994	966.772	946.550	929.439	911.550	893.661	874.995
167.5	1042.994	1028.216	1008.772	988.549	972.216	955.105	941.105	926.328	910.772	894.439
170.0	1029.772	1017.327	1002.549	986.994	974.550	962.105	950.439	937.994	923.994	911.550
172.5	1012.660	1004.105	993.994	983.105	973.772	964.438	955.105	945.772	934.883	925.550
175.0	993.994	988.549	982.327	975.327	969.105	962.883	956.661	950.439	944.216	937.216
177.5	973.772	970.661	967.550	963.661	961.327	958.216	955.105	951.994	948.883	945.772
180.0	950.439	950.439	950.439	950.439	950.439	950.439	950.439	950.439	950.439	950.439

**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-H-H-835-ASY-DSO-ITL89599-ITL94139.001.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	3.111	4.667	7.000	8.556	10.111	12.444	14.000	15.556	16.333	17.889
92.5	24.111	24.889	25.666	27.222	28.778	29.555	31.111	32.666	33.444	33.444
95.0	50.555	51.333	52.889	54.444	56.777	59.111	61.444	63.777	63.777	63.777
97.5	76.222	77.777	79.333	81.666	85.555	88.666	92.555	95.666	97.222	97.999
100.0	102.666	104.222	106.555	109.666	113.555	117.444	122.110	125.999	128.333	131.444
102.5	129.888	132.999	136.110	139.999	144.666	149.332	153.999	158.666	161.777	164.110
105.0	156.332	160.999	164.888	170.332	177.332	183.554	190.554	196.777	198.332	199.888
107.5	184.332	188.221	192.110	197.554	204.554	211.554	219.332	226.332	229.443	232.554
110.0	211.554	213.888	216.221	222.443	230.999	239.554	248.887	257.443	260.554	263.665
112.5	238.776	239.554	240.332	246.554	256.665	266.776	277.665	287.776	291.665	295.554
115.0	265.998	265.221	264.443	269.110	280.776	292.443	304.109	315.776	321.220	326.665
117.5	293.220	289.332	286.221	290.887	303.332	316.554	328.998	341.442	348.442	355.442
120.0	321.220	314.998	309.554	312.665	325.887	338.331	351.553	363.998	372.553	381.109
122.5	348.442	340.665	332.109	334.442	346.887	360.109	372.553	384.998	395.109	405.220
125.0	377.220	367.109	356.220	356.998	368.664	380.331	391.998	403.664	415.331	427.775
127.5	405.220	391.998	378.776	377.998	388.109	398.998	409.109	419.997	433.220	446.442
130.0	433.220	417.664	401.331	398.220	406.775	416.109	424.664	433.997	447.997	461.997
132.5	462.775	443.331	423.886	418.442	425.442	432.442	440.219	447.219	460.442	473.664
135.0	491.553	468.997	446.442	437.886	443.331	448.775	454.219	459.664	472.108	483.775
137.5	521.108	495.441	469.775	458.886	461.997	464.330	467.442	470.553	481.442	492.330
140.0	551.441	523.441	495.441	481.442	481.442	482.219	482.219	482.219	491.553	500.108
142.5	582.552	553.774	524.219	507.886	503.997	500.886	496.997	493.886	500.886	507.886
145.0	615.218	584.885	554.552	535.886	528.108	521.108	513.330	505.553	510.219	514.886
147.5	647.107	616.774	585.663	563.885	552.219	540.552	528.886	517.219	520.330	523.441
150.0	678.218	646.329	614.441	591.107	576.330	560.774	545.997	530.441	531.997	532.774
152.5	709.329	678.218	646.329	621.441	602.774	584.885	566.219	547.552	545.997	544.441
155.0	739.662	709.329	678.218	652.552	632.330	612.107	591.885	571.663	566.996	562.330
157.5	769.217	738.884	708.551	683.663	664.218	644.774	624.552	605.107	595.774	587.219
160.0	798.773	771.551	743.551	720.218	700.774	681.329	662.663	643.218	630.774	618.330
162.5	826.773	802.662	777.773	755.995	737.329	718.662	699.996	681.329	668.885	656.440
165.0	853.995	833.773	812.773	793.328	774.662	756.773	738.107	719.440	708.551	698.440
167.5	877.328	860.217	843.106	825.995	809.662	793.328	776.995	760.662	750.551	740.440

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DSO-ITL89599-ITL94139.001.IES

CANDELA TABULATION - (Cont.)

170.0	897.550	884.328	870.328	857.106	844.662	831.439	818.995	806.551	797.217	787.884
172.5	915.439	906.106	895.995	886.661	877.328	868.773	859.439	850.106	843.106	836.106
175.0	930.994	923.994	917.772	911.550	906.106	900.661	894.439	888.995	884.328	880.439
177.5	942.661	938.772	935.661	932.550	930.216	927.883	924.772	922.439	920.883	918.550
180.0	950.439	950.439	950.439	950.439	950.439	950.439	950.439	950.439	950.439	950.439

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	18.667	19.444	20.222	20.222	21.000	21.000	21.000
92.5	34.222	35.000	35.000	35.000	35.778	35.778	35.778
95.0	64.555	64.555	64.555	63.777	63.000	62.222	61.444
97.5	99.555	100.333	101.111	100.333	99.555	99.555	98.777
100.0	133.777	136.110	137.666	137.666	136.888	136.888	136.888
102.5	167.221	169.554	171.110	171.110	171.888	171.888	171.888
105.0	202.221	203.776	204.554	204.554	203.776	203.776	203.776
107.5	234.887	237.999	238.776	237.999	237.221	236.443	235.665
110.0	265.998	269.110	270.665	270.665	270.665	270.665	270.665
112.5	299.443	303.332	304.887	304.887	304.887	304.887	304.887
115.0	332.109	337.553	339.887	340.665	340.665	341.442	341.442

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DSO-ITL89599-ITL94139.001.IES****CANDELA TABULATION - (Cont.)**

117.5	362.442	369.442	372.553	373.331	374.109	374.887	375.664
120.0	389.664	398.220	403.664	404.442	405.220	406.775	407.553
122.5	415.331	425.442	431.664	433.220	433.997	435.553	437.108
125.0	439.442	451.108	458.108	459.664	461.219	462.775	464.330
127.5	459.664	472.886	480.664	482.997	485.330	487.664	489.997
130.0	475.219	489.219	497.775	501.664	505.553	508.663	512.552
132.5	486.886	500.108	508.663	513.330	518.775	523.441	528.108
135.0	496.219	507.886	516.441	521.108	526.552	531.219	535.886
137.5	503.219	514.108	521.886	525.774	530.441	534.330	538.997
140.0	509.441	517.997	524.997	528.886	532.774	536.663	540.552
142.5	514.886	521.886	526.552	529.663	532.774	535.886	538.997
145.0	520.330	524.997	528.108	530.441	532.774	535.108	537.441
147.5	525.774	528.886	531.219	532.774	534.330	535.886	537.441
150.0	534.330	535.108	535.886	536.663	537.441	537.441	538.219
152.5	543.663	542.108	541.330	541.330	541.330	541.330	541.330
155.0	557.663	552.997	549.885	549.108	548.330	546.774	545.997
157.5	577.885	569.330	563.885	562.330	559.997	558.441	556.885
160.0	605.885	593.441	585.663	582.552	579.441	576.330	573.219
162.5	643.996	631.552	622.996	618.330	612.885	608.218	603.552
165.0	687.551	677.440	669.663	664.996	659.552	654.885	650.218
167.5	730.329	720.218	713.996	710.107	706.218	703.107	699.218
170.0	777.773	768.440	762.217	758.329	754.440	751.329	747.440
172.5	829.106	822.106	817.439	814.328	811.995	808.884	805.773
175.0	875.772	871.884	868.773	867.217	864.884	863.328	861.773
177.5	916.994	914.661	913.106	912.328	911.550	909.994	909.217
180.0	950.439	950.439	950.439	950.439	950.439	950.439	950.439

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DSO-ITL89599-ITL94139.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	338.20	N.A.	5.70
0-30	725.48	N.A.	12.30
0-40	1188.8	N.A.	20.20
0-60	2051.53	N.A.	34.80
0-80	2501.04	N.A.	42.40
0-90	2548.52	N.A.	43.20
10-90	2462.24	N.A.	41.80
20-40	850.60	N.A.	14.40
20-50	1315.06	N.A.	22.30
40-70	1150.9	N.A.	19.50
60-80	449.51	N.A.	7.60
70-80	161.35	N.A.	2.70
80-90	47.47	N.A.	0.80
90-110	403.15	N.A.	6.80
90-120	935.60	N.A.	15.90
90-130	1546.27	N.A.	26.20
90-150	2614.95	N.A.	44.40
90-180	3345.59	N.A.	56.80
110-180	2942.44	N.A.	49.90
0-180	5894.1	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	47.47
90-100	94.39
100-110	308.76
110-120	532.45
120-130	610.67
130-140	574.14
140-150	494.54
150-160	387.64
160-170	253.53
170-180	89.46

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DSO-ITL89599-ITL94139.001.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

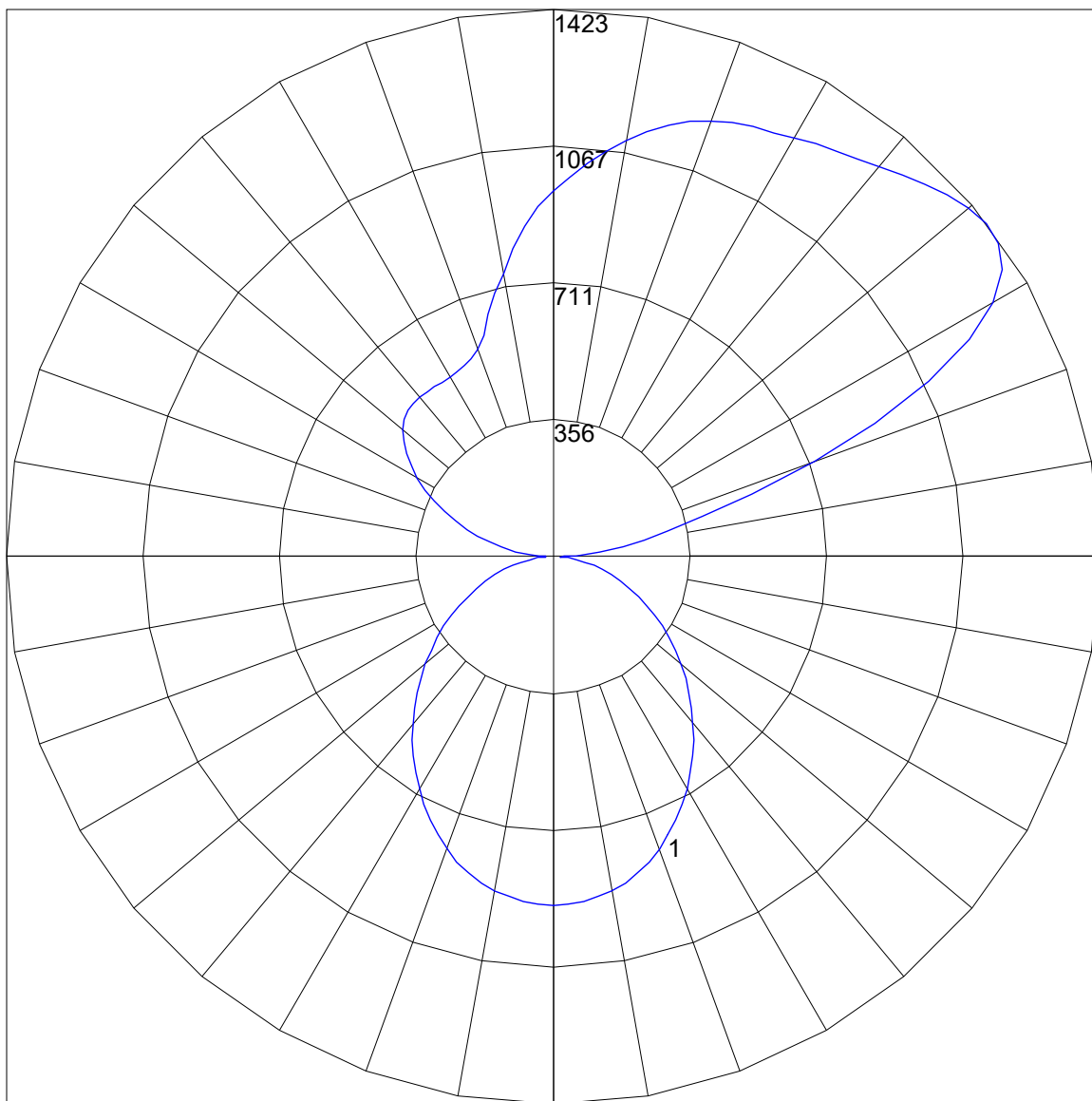
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	68	64	61	57	54	49	47	45	39	37	35	30
3	80	71	63	57	73	65	58	53	54	49	45	44	40	38	34	32	30	26
4	73	62	55	49	66	57	50	45	48	43	39	39	35	32	31	28	26	22
5	67	55	47	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	24	21	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	22	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-ASY-DSO-ITL89599-ITL94139.001.IES

POLAR GRAPH



Maximum Candela = 1422.547 Located At Horizontal Angle = 0, Vertical Angle = 127.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)