

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-B-835-ASY-DSO-ITL89599-ITL94139.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599-ITL94139.008 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-B-835-ASY-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 47.6 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]5029

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5032
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	46
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	7114	8992	9235
55	6469	8280	8280
65	5804	7357	7153
75	5161	6278	5946
85	4481	4750	4302

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0.0	599.944	599.944	599.944	599.944	599.944	599.944	599.944	599.944	599.944	599.944
2.5	598.915	598.915	598.915	598.915	598.915	598.915	598.915	599.430	599.430	599.430
5.0	595.828	595.828	595.828	596.343	596.343	596.857	597.372	597.886	598.401	598.915
7.5	590.168	590.683	591.197	591.712	592.226	592.741	593.770	594.799	595.828	596.857
10.0	582.965	583.479	583.994	584.508	585.023	586.567	589.139	591.197	593.770	595.828
12.5	574.218	574.732	575.761	576.276	576.790	579.363	582.965	587.081	590.683	594.799
15.0	562.384	563.413	564.442	565.985	567.014	570.101	575.761	580.907	586.567	591.712
17.5	550.035	551.578	553.122	554.665	556.209	560.325	567.014	573.703	580.907	587.596
20.0	534.599	536.657	538.715	541.288	543.346	548.491	557.238	565.471	574.218	582.450
22.5	518.134	520.706	523.279	525.852	528.424	534.599	544.375	554.151	563.927	573.703
25.0	499.611	503.212	506.814	510.416	514.018	520.706	531.511	542.317	553.122	563.927
27.5	481.087	485.204	489.320	493.951	498.067	505.785	517.619	529.453	540.773	552.607
30.0	461.021	466.166	471.311	475.942	481.087	489.834	501.669	514.018	525.852	538.201
32.5	440.439	446.099	451.245	456.904	462.564	471.826	484.689	497.552	510.416	523.279
35.0	418.829	425.003	430.663	436.838	442.498	452.274	465.651	479.544	492.922	506.300
37.5	397.733	403.908	410.082	416.771	422.945	432.721	446.099	459.477	472.855	486.233
40.0	375.094	381.783	388.472	395.161	401.849	412.140	425.003	438.381	451.245	464.622
42.5	353.483	360.172	366.861	373.550	380.239	390.530	403.393	416.256	429.634	442.498
45.0	331.359	338.048	344.736	351.425	358.114	367.890	380.754	393.617	405.966	418.829
47.5	309.748	316.437	323.126	329.815	336.504	345.765	357.600	369.434	381.268	393.102
50.0	287.109	293.798	300.487	307.176	313.865	322.612	333.417	344.736	355.542	366.861
52.5	264.984	271.158	277.333	284.022	290.196	298.429	308.719	319.524	329.815	340.106
55.0	244.403	250.063	255.722	261.382	267.042	274.760	284.536	293.798	303.574	312.835
57.5	222.792	227.938	233.597	238.743	244.403	251.092	259.839	268.586	276.818	285.565
60.0	202.211	206.842	211.473	216.103	220.734	227.423	235.141	242.859	250.577	258.295
62.5	182.659	186.775	190.891	194.493	198.609	204.269	210.958	218.162	224.851	232.054
65.0	161.563	165.679	169.281	173.397	176.999	182.144	187.804	193.464	199.124	204.784
67.5	143.040	146.127	149.214	152.302	155.389	159.505	164.136	169.281	173.912	179.057
70.0	124.002	126.575	129.148	131.720	134.293	137.895	142.011	146.127	150.243	154.360
72.5	105.479	107.537	109.595	112.168	114.226	116.799	120.400	123.488	127.089	130.177
75.0	87.985	89.529	91.072	92.616	94.159	96.732	99.305	101.877	104.450	107.023
77.5	71.520	72.549	73.578	75.122	76.151	77.694	79.238	81.296	82.840	84.898
80.0	56.084	56.599	57.113	57.628	58.142	59.171	60.715	62.258	63.287	64.831
82.5	41.163	41.163	41.677	41.677	42.192	42.706	43.221	43.735	44.764	45.279
85.0	25.727	25.727	26.241	26.241	26.756	26.756	26.756	27.270	27.270	27.270
87.5	11.834	11.834	11.834	11.834	11.834	11.834	11.320	11.320	10.805	10.805
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-B-835-ASY-DSO-ITL89599-ITL94139.008.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	599.944	599.944	599.944	599.944	599.944	599.944	599.944	599.944	599.944	599.944
2.5	599.430	599.944	599.944	600.459	600.459	600.459	600.459	600.459	600.459	600.459
5.0	599.430	599.944	600.459	600.973	601.488	602.002	602.002	602.517	602.517	602.517
7.5	597.886	599.430	600.459	602.002	603.032	603.546	604.061	605.090	605.604	605.090
10.0	598.401	600.459	603.032	605.604	607.148	607.662	608.691	609.206	610.235	609.206
12.5	597.886	601.488	604.575	608.177	610.235	611.264	611.779	612.808	613.837	612.808
15.0	595.828	599.944	604.575	608.691	611.264	612.293	613.837	614.866	615.895	614.866
17.5	592.741	597.886	603.032	608.177	611.264	612.808	614.351	615.380	616.924	615.380
20.0	588.110	593.770	599.430	605.090	608.691	610.235	611.779	613.322	614.866	613.322
22.5	579.878	586.567	592.741	599.430	603.546	605.090	606.633	608.691	610.235	608.691
25.0	570.616	577.819	584.508	591.197	595.828	597.372	598.915	600.459	602.002	600.459
27.5	559.811	566.500	573.703	580.392	585.023	586.567	588.110	589.654	591.197	589.654
30.0	545.404	552.093	559.296	565.985	570.101	571.645	572.674	574.218	575.247	574.218
32.5	529.968	536.657	543.346	550.035	553.636	554.665	555.695	556.724	557.753	556.724
35.0	512.474	518.134	524.308	529.968	533.570	534.084	534.599	535.628	536.142	535.628
37.5	491.893	497.038	502.698	508.358	510.930	511.445	511.959	511.959	512.474	511.959
40.0	469.768	474.913	479.544	484.689	487.262	486.747	486.747	486.233	486.233	486.233
42.5	446.614	450.730	454.332	458.448	460.506	459.992	459.477	458.963	458.448	458.963
45.0	421.916	425.003	428.605	431.692	432.721	432.207	431.692	430.663	430.149	430.663
47.5	395.675	398.248	400.820	403.393	404.422	403.908	403.393	402.364	401.849	402.364
50.0	368.919	370.978	372.521	374.579	375.094	374.065	372.521	371.492	370.463	371.492
52.5	341.649	343.193	344.736	346.280	346.280	345.251	343.707	342.678	341.649	342.678
55.0	313.865	314.894	315.408	316.437	316.437	315.408	314.894	313.865	312.835	313.865
57.5	286.080	286.594	287.109	287.623	287.623	286.080	284.536	282.993	281.449	282.993
60.0	258.810	259.324	259.839	260.353	259.839	258.295	256.752	255.208	253.664	255.208
62.5	232.054	232.054	231.539	231.539	231.025	229.996	228.452	227.423	226.394	227.423
65.0	204.784	204.784	204.269	204.269	203.755	202.726	201.182	200.153	199.124	200.153
67.5	178.543	178.543	178.028	177.513	176.999	175.970	174.426	173.397	172.368	173.397
70.0	153.845	153.331	152.816	152.302	151.787	150.243	149.214	148.185	147.156	148.185
72.5	129.662	129.148	128.633	128.119	127.089	126.060	125.546	124.517	123.488	124.517
75.0	106.508	105.994	105.479	104.965	103.936	103.421	102.906	101.877	101.363	101.877
77.5	84.383	83.869	83.354	82.840	81.811	81.296	80.781	80.267	79.752	80.267
80.0	64.317	63.287	62.773	62.258	61.744	61.229	60.715	60.200	59.686	60.200

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CANDELA TABULATION - (Cont.)

82.5	44.764	44.250	43.735	43.221	43.221	42.706	42.192	42.192	41.677	42.192
85.0	26.756	26.756	26.241	25.727	25.727	25.212	25.212	24.698	24.698	24.698
87.5	10.805	10.805	10.291	10.291	10.291	9.776	9.776	9.262	9.262	9.262
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	599.944	599.944	599.944	599.944	599.944	599.944	599.944	599.944	599.944	599.944
2.5	600.459	600.459	600.459	600.459	599.944	599.944	599.430	599.430	599.430	599.430
5.0	602.002	602.002	601.488	600.973	600.459	599.944	599.430	598.915	598.401	597.886
7.5	604.061	603.546	603.032	602.002	600.459	599.430	597.886	596.857	595.828	594.799
10.0	608.691	607.662	607.148	605.604	603.032	600.459	598.401	595.828	593.770	591.197
12.5	611.779	611.264	610.235	608.177	604.575	601.488	597.886	594.799	590.683	587.081
15.0	613.837	612.293	611.264	608.691	604.575	599.944	595.828	591.712	586.567	580.907
17.5	614.351	612.808	611.264	608.177	603.032	597.886	592.741	587.596	580.907	573.703
20.0	611.779	610.235	608.691	605.090	599.430	593.770	588.110	582.450	574.218	565.471
22.5	606.633	605.090	603.546	599.430	592.741	586.567	579.878	573.703	563.927	554.151
25.0	598.915	597.372	595.828	591.197	584.508	577.819	570.616	563.927	553.122	542.317
27.5	588.110	586.567	585.023	580.392	573.703	566.500	559.811	552.607	540.773	529.453

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-ASY-DSO-ITL89599-ITL94139.008.IES****CANDELA TABULATION - (Cont.)**

30.0	572.674	571.645	570.101	565.985	559.296	552.093	545.404	538.201	525.852	514.018
32.5	555.695	554.665	553.636	550.035	543.346	536.657	529.968	523.279	510.416	497.552
35.0	534.599	534.084	533.570	529.968	524.308	518.134	512.474	506.300	492.922	479.544
37.5	511.959	511.445	510.930	508.358	502.698	497.038	491.893	486.233	472.855	459.477
40.0	486.747	486.747	487.262	484.689	479.544	474.913	469.768	464.622	451.245	438.381
42.5	459.477	459.992	460.506	458.448	454.332	450.730	446.614	442.498	429.634	416.256
45.0	431.692	432.207	432.721	431.692	428.605	425.003	421.916	418.829	405.966	393.617
47.5	403.393	403.908	404.422	403.393	400.820	398.248	395.675	393.102	381.268	369.434
50.0	372.521	374.065	375.094	374.579	372.521	370.978	368.919	366.861	355.542	344.736
52.5	343.707	345.251	346.280	346.280	344.736	343.193	341.649	340.106	329.815	319.524
55.0	314.894	315.408	316.437	316.437	315.408	314.894	313.865	312.835	303.574	293.798
57.5	284.536	286.080	287.623	287.623	287.109	286.594	286.080	285.565	276.818	268.586
60.0	256.752	258.295	259.839	260.353	259.839	259.324	258.810	258.295	250.577	242.859
62.5	228.452	229.996	231.025	231.539	231.539	232.054	232.054	232.054	224.851	218.162
65.0	201.182	202.726	203.755	204.269	204.269	204.784	204.784	204.784	199.124	193.464
67.5	174.426	175.970	176.999	177.513	178.028	178.543	178.543	179.057	173.912	169.281
70.0	149.214	150.243	151.272	152.302	152.816	153.331	153.845	154.360	150.243	146.127
72.5	125.546	126.060	127.089	128.119	128.633	129.148	129.662	130.177	127.089	123.488
75.0	102.906	103.421	103.936	104.965	105.479	105.994	106.508	107.023	104.450	101.877
77.5	80.781	81.296	81.811	82.840	83.354	83.869	84.383	84.898	82.840	81.296
80.0	60.715	61.229	61.744	62.258	62.773	63.287	64.317	64.831	63.287	62.258
82.5	42.192	42.706	43.221	43.221	43.735	44.250	44.764	45.279	44.764	43.735
85.0	25.212	25.212	25.727	25.727	26.241	26.756	26.756	27.270	27.270	27.270
87.5	9.776	9.776	10.291	10.291	10.291	10.805	10.805	10.805	10.805	11.320
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-B-835-ASY-DSO-ITL89599-ITL94139.008.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

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	599.944	599.944	599.944	599.944	599.944	599.944	599.944
2.5	598.915	598.915	598.915	598.915	598.915	598.915	598.915
5.0	597.372	596.857	596.343	596.343	595.828	595.828	595.828
7.5	593.770	592.741	592.226	591.712	591.197	590.683	590.168
10.0	589.139	586.567	585.023	584.508	583.994	583.479	582.965
12.5	582.965	579.363	576.790	576.276	575.761	574.732	574.218
15.0	575.761	570.101	567.014	565.985	564.442	563.413	562.384
17.5	567.014	560.325	556.209	554.665	553.122	551.578	550.035
20.0	557.238	548.491	543.346	541.288	538.715	536.657	534.599
22.5	544.375	534.599	528.424	525.852	523.279	520.706	518.134
25.0	531.511	520.706	514.018	510.416	506.814	503.212	499.611
27.5	517.619	505.785	498.067	493.951	489.320	485.204	481.087
30.0	501.669	489.834	481.087	475.942	471.311	466.166	461.021
32.5	484.689	471.826	462.564	456.904	451.245	446.099	440.439
35.0	465.651	452.274	442.498	436.838	430.663	425.003	418.829
37.5	446.099	432.721	422.945	416.771	410.082	403.908	397.733
40.0	425.003	412.140	401.849	395.161	388.472	381.783	375.094
42.5	403.393	390.530	380.239	373.550	366.861	360.172	353.483
45.0	380.754	367.890	358.114	351.425	344.736	338.048	331.359
47.5	357.600	345.765	336.504	329.815	323.126	316.437	309.748
50.0	333.417	322.612	313.865	307.176	300.487	293.798	287.109
52.5	308.719	298.429	290.196	284.022	277.333	271.158	264.984
55.0	284.536	274.760	267.042	261.382	255.722	250.063	244.403
57.5	259.839	251.092	244.403	238.743	233.597	227.938	222.792
60.0	235.141	227.423	220.734	216.103	211.473	206.842	202.211
62.5	210.958	204.269	198.609	194.493	190.891	186.775	182.659
65.0	187.804	182.144	176.999	173.397	169.281	165.679	161.563
67.5	164.136	159.505	155.389	152.302	149.214	146.127	143.040
70.0	142.011	137.895	134.293	131.720	129.148	126.575	124.002
72.5	120.400	116.799	114.226	112.168	109.595	107.537	105.479
75.0	99.305	96.732	94.159	92.616	91.072	89.529	87.985
77.5	79.238	77.694	76.151	75.122	73.578	72.549	71.520
80.0	60.715	59.171	58.142	57.628	57.113	56.599	56.084
82.5	43.221	42.706	42.192	41.677	41.677	41.163	41.163
85.0	26.756	26.756	26.756	26.241	26.241	25.727	25.727
87.5	11.320	11.834	11.834	11.834	11.834	11.834	11.834
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-B-835-ASY-DSO-ITL89599-ITL94139.008.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-B-835-ASY-DSO-ITL89599-ITL94139.008.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	223.70	N.A.	4.40
0-30	479.87	N.A.	9.50
0-40	786.33	N.A.	15.60
0-60	1356.99	N.A.	27.00
0-80	1654.33	N.A.	32.90
0-90	1686.42	N.A.	33.50
10-90	1629.35	N.A.	32.40
20-40	562.63	N.A.	11.20
20-50	869.85	N.A.	17.30
40-70	761.27	N.A.	15.10
60-80	297.33	N.A.	5.90
70-80	106.72	N.A.	2.10
80-90	32.09	N.A.	0.60
90-110	403.15	N.A.	8.00
90-120	935.60	N.A.	18.60
90-130	1546.27	N.A.	30.70
90-150	2614.95	N.A.	52.00
90-180	3345.59	N.A.	66.50
110-180	2942.44	N.A.	58.50
0-180	5032.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.07
10-20	166.63
20-30	256.17
30-40	306.46
40-50	307.22
50-60	263.44
60-70	190.61
70-80	106.72
80-90	32.09
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-B-835-ASY-DSO-ITL89599-ITL94139.008.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

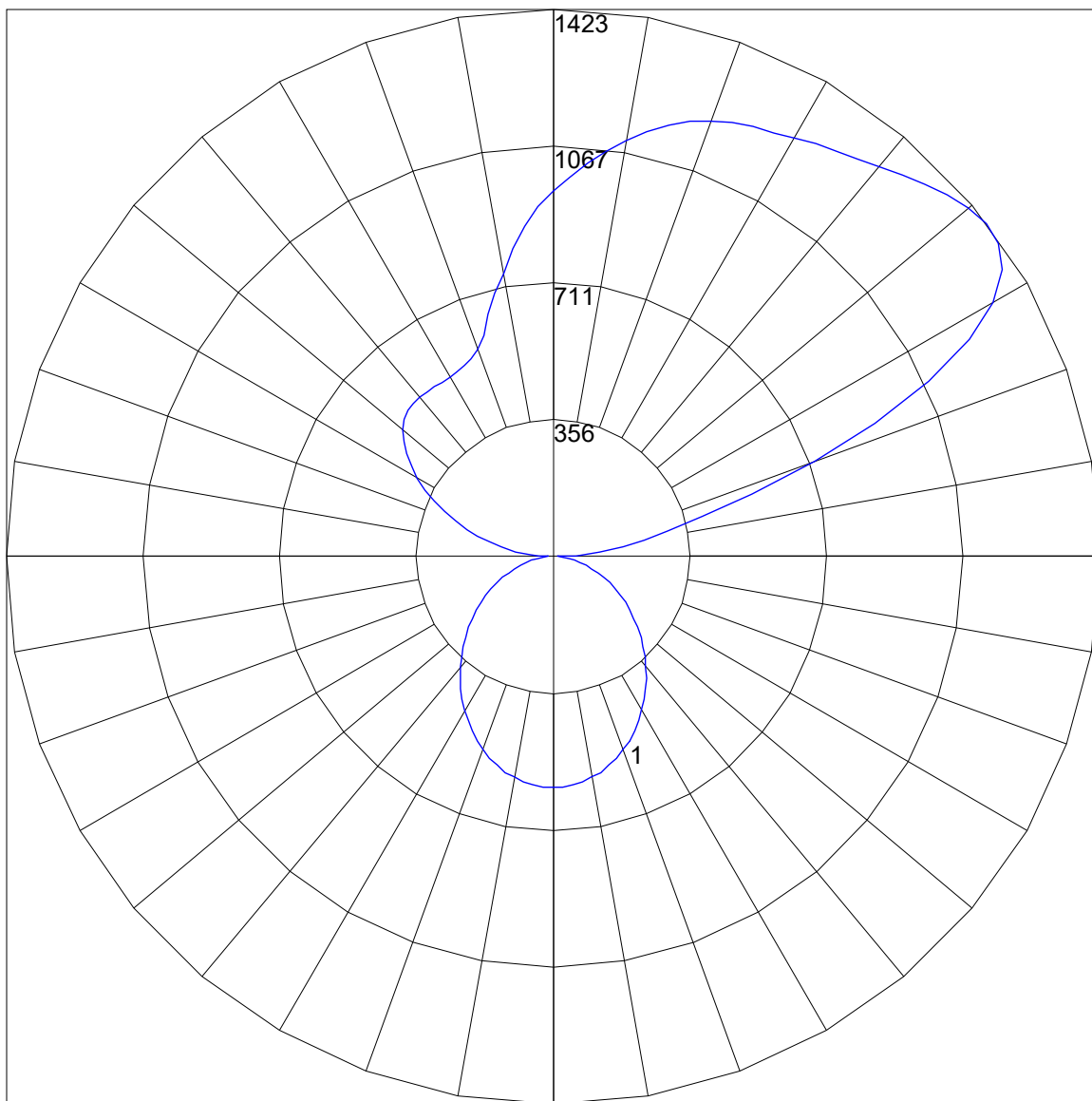
Effective Floor Cavity Reflectance 0.20

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	35	35	28
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	32	30	29	24
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25	20
4	71	61	53	47	64	55	49	43	44	40	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	40	35	31	31	27	25	23	20	18	15
6	60	48	40	35	54	44	37	32	36	30	27	28	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	22	19	19	16	14	12
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	16	19	16	13	15	12	10	8

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-ASY-DSO-ITL89599-ITL94139.008.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.)