

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-B-H-835-ASY-DSO-ITL89599-ITL94139.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599-ITL94139.011 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/17

[ISSUEDATE]12/18/2020

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 45.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 47.1 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]4759

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4761
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	45.7
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	18.523	18.523	18.523	18.009	17.494	16.465	15.436	14.407	13.378	11.834
92.5	40.133	40.648	40.648	40.648	40.133	39.619	38.075	36.017	34.474	32.416
95.0	80.267	81.296	81.296	80.781	80.267	79.238	77.694	76.151	75.122	73.578
97.5	121.944	122.973	122.973	122.459	121.430	120.400	121.430	121.944	121.430	120.915
100.0	157.961	159.505	160.534	161.048	163.621	165.679	171.339	176.999	176.999	176.999
102.5	202.726	204.784	208.386	211.473	218.676	225.365	234.627	243.374	243.374	242.859
105.0	263.955	267.042	274.760	282.478	295.856	308.719	315.408	321.582	319.010	316.437
107.5	358.629	357.600	370.978	384.355	393.102	401.849	406.480	411.111	403.393	395.161
110.0	479.544	476.457	485.718	494.465	499.611	504.241	505.270	505.785	488.291	470.797
112.5	598.915	595.313	602.517	609.206	609.720	610.235	601.488	592.741	562.898	532.541
115.0	714.685	710.569	713.656	716.229	709.025	701.822	680.726	659.115	619.496	579.363
117.5	807.815	803.699	800.097	796.495	783.632	770.769	739.897	709.025	660.144	610.750
120.0	874.190	870.588	863.385	855.667	836.115	816.562	778.487	739.897	684.842	629.787
122.5	916.896	913.809	903.518	892.713	868.015	842.803	799.583	756.362	699.764	642.650
125.0	936.963	934.905	922.556	910.207	881.908	853.094	808.330	763.051	707.481	651.398
127.5	941.079	939.535	926.158	912.780	882.937	852.580	808.844	764.595	711.083	657.057
130.0	933.876	932.332	918.954	905.576	876.248	846.920	805.243	763.051	712.627	661.688
132.5	920.498	919.983	907.635	894.771	866.986	838.687	799.583	760.478	714.170	667.862

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

135.0	905.576	904.547	892.713	880.879	855.152	828.911	793.923	758.420	716.229	674.037
137.5	890.655	888.597	878.306	867.501	844.347	820.678	789.292	757.391	719.316	680.726
140.0	874.704	873.675	864.928	855.667	835.085	813.990	785.690	757.391	722.403	687.415
142.5	861.841	861.327	853.609	845.891	827.367	808.844	783.632	757.906	726.005	694.104
145.0	851.036	850.521	843.832	836.629	820.164	803.699	781.060	758.420	730.121	701.822
147.5	841.260	840.231	834.571	828.396	813.990	799.068	779.001	758.935	734.237	709.025
150.0	830.455	830.455	825.309	820.164	807.815	794.952	777.458	759.964	738.353	716.229
152.5	821.708	820.678	817.077	812.961	802.670	791.865	776.943	761.507	741.441	721.374
155.0	814.504	812.961	809.873	806.786	797.525	788.263	774.885	760.993	742.984	724.461
157.5	807.301	805.757	802.670	799.583	791.865	783.632	771.283	758.420	741.441	724.461
160.0	797.525	795.981	792.894	789.807	782.603	775.400	764.595	753.275	737.839	721.888
162.5	784.661	783.632	780.545	777.458	771.283	765.109	754.818	744.013	730.635	716.743
165.0	768.196	767.167	764.080	760.993	755.333	749.673	741.441	732.693	721.374	709.540
167.5	748.644	747.615	745.042	741.955	737.839	733.208	726.005	718.801	709.540	699.764
170.0	726.005	724.976	722.918	720.859	717.258	713.141	707.996	702.851	696.162	688.958
172.5	702.851	702.336	700.793	698.734	696.676	694.104	690.502	686.386	681.240	675.581
175.0	678.153	677.639	676.610	675.066	673.522	671.979	669.921	667.348	664.261	661.174
177.5	652.941	652.941	652.427	651.912	651.398	650.369	649.339	648.310	647.281	645.738
180.0	628.758	628.758	628.758	628.758	628.758	628.758	628.758	628.758	628.758	628.758

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	10.291	8.747	7.203	5.660	4.631	3.087	2.058	0.514	0.000	0.514
92.5	32.416	32.416	30.872	28.814	28.299	27.270	24.698	21.610	12.349	15.436
95.0	72.549	71.520	68.947	66.375	62.773	59.171	51.968	44.764	30.357	32.416
97.5	119.886	118.342	113.197	108.052	100.334	92.616	79.238	65.346	49.395	49.395
100.0	174.426	171.854	162.078	151.787	139.438	126.575	105.994	85.412	68.947	66.375
102.5	236.170	228.967	213.531	197.580	176.999	155.903	130.691	104.965	87.985	83.869
105.0	302.545	288.652	264.984	241.315	211.473	181.630	153.845	125.546	107.537	100.848
107.5	373.036	350.396	314.379	278.362	241.830	205.298	175.455	145.098	127.604	119.371
110.0	435.809	400.820	355.542	309.748	268.071	226.394	196.037	165.679	147.671	138.409
112.5	486.233	439.410	387.443	335.475	291.740	247.490	216.103	184.717	167.737	157.447
115.0	524.308	468.739	413.684	358.114	312.835	267.557	236.685	205.813	188.833	176.484
117.5	550.549	490.349	433.750	377.152	332.388	287.109	257.266	226.909	210.444	196.037
120.0	568.558	506.814	451.245	395.161	351.425	307.690	278.362	248.519	231.539	216.103
122.5	581.936	520.706	466.680	412.655	370.463	328.271	299.458	270.129	252.635	236.170
125.0	592.741	533.570	481.602	429.634	389.501	348.853	320.039	291.225	273.731	256.752
127.5	602.002	546.433	497.038	447.643	408.538	369.434	340.620	311.806	294.312	276.818
130.0	610.750	559.811	512.988	465.651	428.091	390.530	362.231	333.931	315.923	297.399
132.5	620.011	572.160	528.424	484.175	448.157	411.626	383.841	356.056	337.533	319.010
135.0	629.787	585.537	543.860	502.183	467.195	432.207	405.451	378.181	359.658	340.106
137.5	640.078	599.430	560.325	520.706	486.747	452.274	426.547	400.306	381.783	361.716
140.0	650.369	612.808	576.276	539.230	506.300	472.855	447.643	422.431	403.393	383.326
142.5	660.659	626.700	592.226	557.753	525.337	492.922	469.253	445.070	425.003	404.937
145.0	671.464	640.592	607.662	574.218	543.346	512.474	489.320	466.166	446.614	427.062
147.5	681.240	653.456	622.069	590.168	560.840	531.511	509.387	487.262	467.710	448.672
150.0	690.502	664.261	634.418	604.061	576.790	549.520	528.424	507.329	489.320	469.768
152.5	697.705	674.037	645.738	616.924	591.712	566.500	546.433	526.366	509.387	490.349
155.0	702.851	680.726	654.485	627.729	604.575	581.421	562.898	544.375	528.424	509.901
157.5	704.909	685.357	661.174	636.991	616.409	595.313	578.848	561.869	546.433	528.939
160.0	704.909	687.415	665.804	644.194	625.671	607.148	592.226	577.305	562.898	546.947
162.5	702.336	687.415	668.377	649.339	633.903	617.953	604.575	591.197	577.819	563.413
165.0	697.191	684.842	668.892	652.941	639.563	626.185	614.866	603.032	591.197	578.848
167.5	689.987	680.211	667.348	653.970	643.165	631.845	622.584	612.808	602.517	591.712
170.0	681.240	673.008	663.232	652.941	644.709	636.476	628.758	620.526	611.264	603.032
172.5	669.921	664.261	657.572	650.369	644.194	638.020	631.845	625.671	618.467	612.293
175.0	657.572	653.970	649.854	645.223	641.107	636.991	632.874	628.758	624.642	620.011
177.5	644.194	642.136	640.078	637.505	635.962	633.903	631.845	629.787	627.729	625.671
180.0	628.758	628.758	628.758	628.758	628.758	628.758	628.758	628.758	628.758	628.758

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-B-H-835-ASY-DSO-ITL89599-ITL94139.011.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	2.058	3.087	4.631	5.660	6.689	8.232	9.262	10.291	10.805	11.834
92.5	15.950	16.465	16.980	18.009	19.038	19.552	20.581	21.610	22.125	22.125
95.0	33.445	33.959	34.988	36.017	37.561	39.104	40.648	42.192	42.192	42.192
97.5	50.424	51.453	52.482	54.026	56.599	58.657	61.229	63.287	64.317	64.831
100.0	67.918	68.947	70.491	72.549	75.122	77.694	80.781	83.354	84.898	86.956
102.5	85.927	87.985	90.043	92.616	95.703	98.790	101.877	104.965	107.023	108.566
105.0	103.421	106.508	109.081	112.683	117.313	121.430	126.060	130.177	131.206	132.235
107.5	121.944	124.517	127.089	130.691	135.322	139.953	145.098	149.729	151.787	153.845
110.0	139.953	141.496	143.040	147.156	152.816	158.476	164.650	170.310	172.368	174.426
112.5	157.961	158.476	158.990	163.107	169.796	176.484	183.688	190.377	192.950	195.522
115.0	175.970	175.455	174.941	178.028	185.746	193.464	201.182	208.900	212.502	216.103
117.5	193.979	191.406	189.348	192.435	200.667	209.415	217.647	225.880	230.510	235.141
120.0	212.502	208.386	204.784	206.842	215.589	223.821	232.569	240.801	246.461	252.121
122.5	230.510	225.365	219.705	221.249	229.481	238.228	246.461	254.693	261.382	268.071
125.0	249.548	242.859	235.656	236.170	243.888	251.606	259.324	267.042	274.760	282.993
127.5	268.071	259.324	250.577	250.063	256.752	263.955	270.644	277.847	286.594	295.341
130.0	286.594	276.304	265.498	263.440	269.100	275.275	280.935	287.109	296.370	305.632
132.5	306.147	293.283	280.420	276.818	281.449	286.080	291.225	295.856	304.603	313.350
135.0	325.184	310.263	295.341	289.682	293.283	296.885	300.487	304.088	312.321	320.039
137.5	344.736	327.757	310.777	303.574	305.632	307.176	309.234	311.292	318.495	325.699
140.0	364.803	346.280	327.757	318.495	318.495	319.010	319.010	319.010	325.184	330.844
142.5	385.385	366.347	346.795	335.989	333.417	331.359	328.786	326.728	331.359	335.989
145.0	406.995	386.928	366.861	354.512	349.367	344.736	339.591	334.446	337.533	340.620
147.5	428.091	408.024	387.443	373.036	365.318	357.600	349.882	342.164	344.222	346.280
150.0	448.672	427.576	406.480	391.044	381.268	370.978	361.202	350.911	351.940	352.454
152.5	469.253	448.672	427.576	411.111	398.762	386.928	374.579	362.231	361.202	360.172
155.0	489.320	469.253	448.672	431.692	418.315	404.937	391.559	378.181	375.094	372.007
157.5	508.872	488.805	468.739	452.274	439.410	426.547	413.169	400.306	394.132	388.472
160.0	528.424	510.416	491.893	476.457	463.593	450.730	438.381	425.518	417.286	409.053
162.5	546.947	530.997	514.532	500.125	487.776	475.428	463.079	450.730	442.498	434.265
165.0	564.956	551.578	537.686	524.823	512.474	500.640	488.291	475.942	468.739	462.050
167.5	580.392	569.072	557.753	546.433	535.628	524.823	514.018	503.212	496.523	489.834

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-ASY-DSO-ITL89599-ITL94139.011.IES

CANDELA TABULATION - (Cont.)

170.0	593.770	585.023	575.761	567.014	558.782	550.035	541.802	533.570	527.395	521.221
172.5	605.604	599.430	592.741	586.567	580.392	574.732	568.558	562.384	557.753	553.122
175.0	615.895	611.264	607.148	603.032	599.430	595.828	591.712	588.110	585.023	582.450
177.5	623.613	621.040	618.982	616.924	615.380	613.837	611.779	610.235	609.206	607.662
180.0	628.758	628.758	628.758	628.758	628.758	628.758	628.758	628.758	628.758	628.758

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	12.349	12.863	13.378	13.378	13.892	13.892	13.892
92.5	22.639	23.154	23.154	23.154	23.669	23.669	23.669
95.0	42.706	42.706	42.706	42.192	41.677	41.163	40.648
97.5	65.860	66.375	66.889	66.375	65.860	65.860	65.346
100.0	88.499	90.043	91.072	91.072	90.558	90.558	90.558
102.5	110.624	112.168	113.197	113.197	113.712	113.712	113.712
105.0	133.778	134.807	135.322	135.322	134.807	134.807	134.807
107.5	155.389	157.447	157.961	157.447	156.932	156.418	155.903
110.0	175.970	178.028	179.057	179.057	179.057	179.057	179.057
112.5	198.095	200.667	201.696	201.696	201.696	201.696	201.696
115.0	219.705	223.307	224.851	225.365	225.365	225.880	225.880

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-ASY-DSO-ITL89599-ITL94139.011.IES****CANDELA TABULATION - (Cont.)**

117.5	239.772	244.403	246.461	246.975	247.490	248.004	248.519
120.0	257.781	263.440	267.042	267.557	268.071	269.100	269.615
122.5	274.760	281.449	285.565	286.594	287.109	288.138	289.167
125.0	290.711	298.429	303.059	304.088	305.118	306.147	307.176
127.5	304.088	312.835	317.981	319.524	321.068	322.612	324.155
130.0	314.379	323.641	329.300	331.873	334.446	336.504	339.077
132.5	322.097	330.844	336.504	339.591	343.193	346.280	349.367
135.0	328.271	335.989	341.649	344.736	348.338	351.425	354.512
137.5	332.902	340.106	345.251	347.824	350.911	353.483	356.571
140.0	337.019	342.678	347.309	349.882	352.454	355.027	357.600
142.5	340.620	345.251	348.338	350.396	352.454	354.512	356.571
145.0	344.222	347.309	349.367	350.911	352.454	353.998	355.542
147.5	347.824	349.882	351.425	352.454	353.483	354.512	355.542
150.0	353.483	353.998	354.512	355.027	355.542	355.542	356.056
152.5	359.658	358.629	358.114	358.114	358.114	358.114	358.114
155.0	368.919	365.832	363.774	363.260	362.745	361.716	361.202
157.5	382.297	376.637	373.036	372.007	370.463	369.434	368.405
160.0	400.820	392.588	387.443	385.385	383.326	381.268	379.210
162.5	426.033	417.800	412.140	409.053	405.451	402.364	399.277
165.0	454.846	448.157	443.012	439.925	436.323	433.236	430.149
167.5	483.146	476.457	472.340	469.768	467.195	465.137	462.564
170.0	514.532	508.358	504.241	501.669	499.096	497.038	494.465
172.5	548.491	543.860	540.773	538.715	537.171	535.113	533.055
175.0	579.363	576.790	574.732	573.703	572.160	571.130	570.101
177.5	606.633	605.090	604.061	603.546	603.032	602.002	601.488
180.0	628.758	628.758	628.758	628.758	628.758	628.758	628.758

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-ASY-DSO-ITL89599-ITL94139.011.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	338.20	N.A.	7.10
0-30	725.48	N.A.	15.20
0-40	1188.8	N.A.	25.00
0-60	2051.53	N.A.	43.10
0-80	2501.04	N.A.	52.50
0-90	2547.82	N.A.	53.50
10-90	2461.54	N.A.	51.70
20-40	850.60	N.A.	17.90
20-50	1315.06	N.A.	27.60
40-70	1150.9	N.A.	24.20
60-80	449.51	N.A.	9.40
70-80	161.35	N.A.	3.40
80-90	46.78	N.A.	1.00
90-110	266.70	N.A.	5.60
90-120	618.94	N.A.	13.00
90-130	1022.93	N.A.	21.50
90-150	1729.91	N.A.	36.30
90-180	2213.26	N.A.	46.50
110-180	1946.56	N.A.	40.90
0-180	4761.08	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	46.78
90-100	62.44
100-110	204.26
110-120	352.24
120-130	403.99
130-140	379.82
140-150	327.16
150-160	256.44
160-170	167.72
170-180	59.18

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-ASY-DSO-ITL89599-ITL94139.011.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

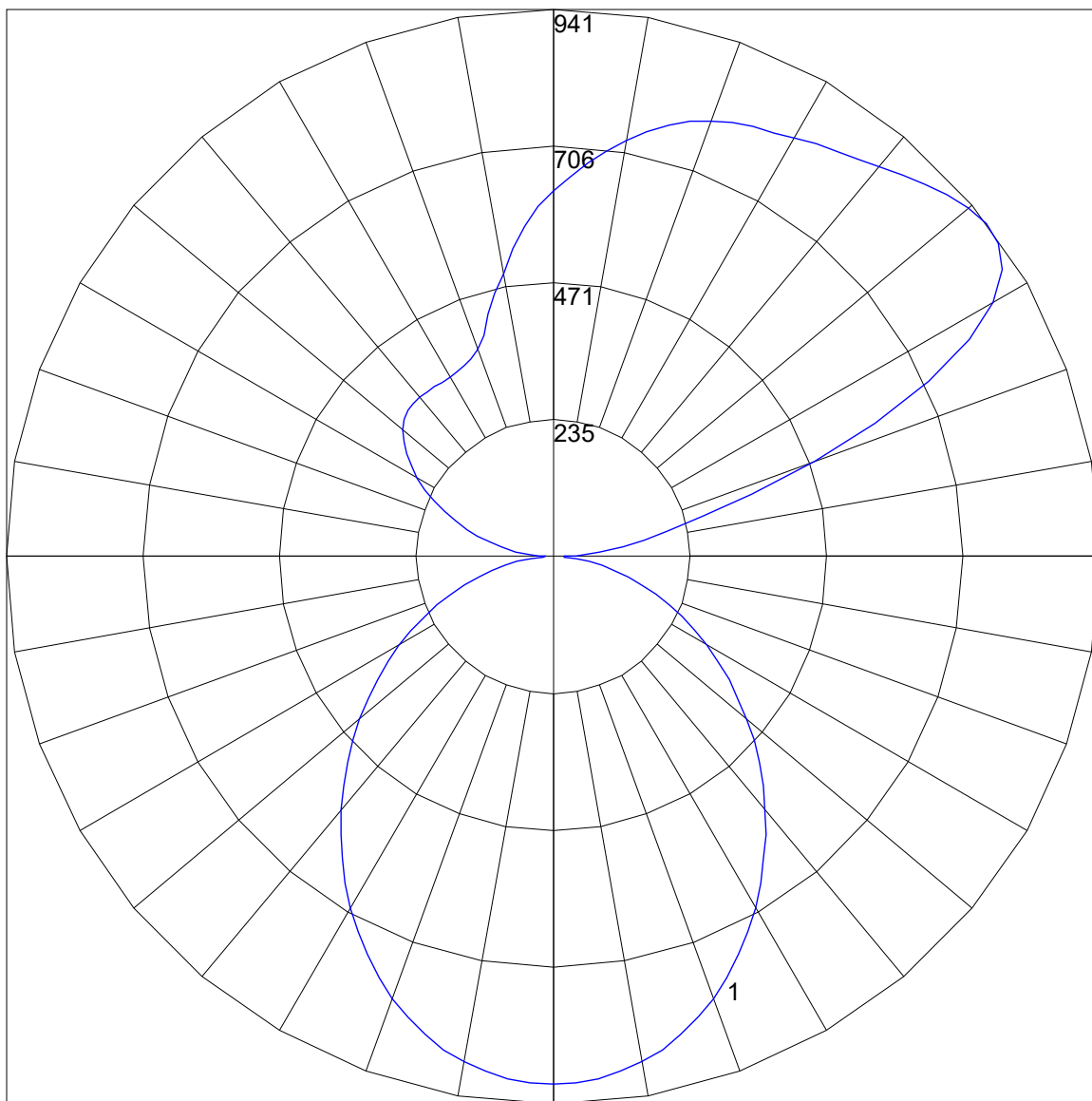
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45
2	90	82	76	71	83	76	71	66	66	61	58	55	52	50	46	44	42	38
3	82	72	65	59	76	67	61	55	58	53	49	49	45	42	41	38	36	32
4	75	64	56	50	69	60	52	47	51	46	41	44	39	36	36	33	31	27
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	30	27	24
6	63	51	43	37	58	48	40	35	41	36	31	35	31	27	30	26	24	21
7	59	46	38	32	54	43	36	31	37	32	27	32	28	24	27	24	21	18
8	54	42	34	29	50	39	32	27	34	28	24	29	25	22	25	21	19	16
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	19	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	17	21	18	15	13

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-ASY-DSO-ITL89599-ITL94139.011.IES

POLAR GRAPH



Maximum Candela = 941.079 Located At Horizontal Angle = 0, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)