

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-B-835-ASY-DSO-ITL89599-ITL94139.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599-ITL94139.015 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-B-835-ASY-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 34.4 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]3445

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3447
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	32.2
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	7114	8992	9235
55	6469	8280	8280
65	5804	7356	7153
75	5161	6278	5946
85	4481	4750	4302

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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	599.922	599.922	599.922	599.922	599.922	599.922	599.922	599.922	599.922	599.922
2.5	598.893	598.893	598.893	598.893	598.893	598.893	598.893	599.408	599.408	599.408
5.0	595.806	595.806	595.806	596.321	596.321	596.835	597.350	597.864	598.379	598.893
7.5	590.146	590.661	591.175	591.690	592.205	592.719	593.748	594.777	595.806	596.835
10.0	582.943	583.458	583.972	584.487	585.001	586.545	589.117	591.175	593.748	595.806
12.5	574.197	574.711	575.740	576.255	576.769	579.342	582.943	587.059	590.661	594.777
15.0	562.363	563.392	564.421	565.964	566.993	570.080	575.740	580.885	586.545	591.690
17.5	550.014	551.558	553.101	554.645	556.188	560.305	566.993	573.682	580.885	587.574
20.0	534.579	536.637	538.695	541.268	543.326	548.471	557.218	565.450	574.197	582.429
22.5	518.115	520.687	523.260	525.832	528.405	534.579	544.355	554.130	563.906	573.682
25.0	499.592	503.194	506.795	510.397	513.999	520.687	531.492	542.297	553.101	563.906
27.5	481.070	485.186	489.302	493.933	498.049	505.766	517.600	529.434	540.753	552.587
30.0	461.004	466.149	471.294	475.925	481.070	489.816	501.650	513.999	525.832	538.181
32.5	440.423	446.083	451.228	456.887	462.547	471.808	484.671	497.534	510.397	523.260
35.0	418.814	424.988	430.647	436.822	442.481	452.257	465.634	479.526	492.903	506.281
37.5	397.719	403.893	410.067	416.755	422.930	432.705	446.083	459.460	472.837	486.215
40.0	375.080	381.769	388.457	395.146	401.835	412.125	424.988	438.365	451.228	464.605
42.5	353.470	360.159	366.848	373.536	380.225	390.515	403.378	416.241	429.618	442.481
45.0	331.346	338.035	344.724	351.412	358.101	367.877	380.740	393.602	405.951	418.814
47.5	309.737	316.425	323.114	329.803	336.491	345.753	357.587	369.420	381.254	393.088
50.0	287.098	293.787	300.476	307.164	313.853	322.600	333.404	344.724	355.529	366.848
52.5	264.974	271.148	277.322	284.011	290.185	298.418	308.708	319.513	329.803	340.093
55.0	244.394	250.053	255.713	261.373	267.032	274.750	284.526	293.787	303.563	312.824
57.5	222.784	227.929	233.589	238.734	244.394	251.082	259.829	268.576	276.808	285.555
60.0	202.204	206.834	211.465	216.095	220.726	227.415	235.132	242.850	250.568	258.286
62.5	182.652	186.768	190.884	194.486	198.602	204.262	210.950	218.154	224.842	232.045
65.0	161.557	165.673	169.275	173.391	176.993	182.138	187.797	193.457	199.117	204.776
67.5	143.035	146.122	149.209	152.296	155.383	159.499	164.130	169.275	173.905	179.050
70.0	123.998	126.570	129.143	131.715	134.288	137.889	142.006	146.122	150.238	154.354
72.5	105.475	107.533	109.591	112.164	114.222	116.794	120.396	123.483	127.085	130.172
75.0	87.982	89.525	91.069	92.612	94.156	96.728	99.301	101.874	104.446	107.019
77.5	71.517	72.546	73.575	75.119	76.148	77.692	79.235	81.293	82.837	84.895
80.0	56.082	56.596	57.111	57.626	58.140	59.169	60.712	62.256	63.285	64.829
82.5	41.161	41.161	41.676	41.676	42.190	42.705	43.219	43.734	44.763	45.277
85.0	25.726	25.726	26.240	26.240	26.755	26.755	26.755	27.269	27.269	27.269
87.5	11.834	11.834	11.834	11.834	11.834	11.834	11.319	11.319	10.805	10.805
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	599.922	599.922	599.922	599.922	599.922	599.922	599.922	599.922	599.922	599.922
2.5	599.408	599.922	599.922	600.437	600.437	600.437	600.437	600.437	600.437	600.437
5.0	599.408	599.922	600.437	600.951	601.466	601.980	601.980	602.495	602.495	602.495
7.5	597.864	599.408	600.437	601.980	603.009	603.524	604.038	605.067	605.582	605.067
10.0	598.379	600.437	603.009	605.582	607.125	607.640	608.669	609.183	610.212	609.183
12.5	597.864	601.466	604.553	608.154	610.212	611.241	611.756	612.785	613.814	612.785
15.0	595.806	599.922	604.553	608.669	611.241	612.270	613.814	614.843	615.872	614.843
17.5	592.719	597.864	603.009	608.154	611.241	612.785	614.329	615.357	616.901	615.357
20.0	588.088	593.748	599.408	605.067	608.669	610.212	611.756	613.299	614.843	613.299
22.5	579.856	586.545	592.719	599.408	603.524	605.067	606.611	608.669	610.212	608.669
25.0	570.595	577.798	584.487	591.175	595.806	597.350	598.893	600.437	601.980	600.437
27.5	559.790	566.479	573.682	580.371	585.001	586.545	588.088	589.632	591.175	589.632
30.0	545.384	552.072	559.276	565.964	570.080	571.624	572.653	574.197	575.226	574.197
32.5	529.948	536.637	543.326	550.014	553.616	554.645	555.674	556.703	557.732	556.703
35.0	512.455	518.115	524.289	529.948	533.550	534.064	534.579	535.608	536.123	535.608
37.5	491.874	497.020	502.679	508.339	510.911	511.426	511.940	511.940	512.455	511.940
40.0	469.750	474.896	479.526	484.671	487.244	486.729	486.729	486.215	486.215	486.215
42.5	446.597	450.713	454.315	458.431	460.489	459.975	459.460	458.946	458.431	458.946
45.0	421.901	424.988	428.589	431.676	432.705	432.191	431.676	430.647	430.133	430.647
47.5	395.661	398.233	400.806	403.378	404.407	403.893	403.378	402.349	401.835	402.349
50.0	368.906	370.964	372.507	374.565	375.080	374.051	372.507	371.478	370.449	371.478
52.5	341.637	343.180	344.724	346.267	346.267	345.238	343.695	342.666	341.637	342.666
55.0	313.853	314.882	315.397	316.425	316.425	315.397	314.882	313.853	312.824	313.853
57.5	286.069	286.584	287.098	287.613	287.613	286.069	284.526	282.982	281.439	282.982
60.0	258.800	259.315	259.829	260.344	259.829	258.286	256.742	255.198	253.655	255.198
62.5	232.045	232.045	231.531	231.531	231.016	229.987	228.444	227.415	226.386	227.415
65.0	204.776	204.776	204.262	204.262	203.747	202.718	201.175	200.146	199.117	200.146
67.5	178.536	178.536	178.022	177.507	176.993	175.963	174.420	173.391	172.362	173.391
70.0	153.839	153.325	152.810	152.296	151.267	150.238	149.209	148.180	147.151	148.180
72.5	129.657	129.143	128.628	128.114	127.085	126.056	125.541	124.512	123.483	124.512
75.0	106.504	105.990	105.475	104.961	103.932	103.417	102.903	101.874	101.359	101.874
77.5	84.380	83.866	83.351	82.837	81.808	81.293	80.778	80.264	79.749	80.264
80.0	64.314	63.285	62.771	62.256	61.742	61.227	60.712	60.198	59.684	60.198

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CANDELA TABULATION - (Cont.)

82.5	44.763	44.248	43.734	43.219	43.219	42.705	42.190	42.190	41.676	42.190
85.0	26.755	26.755	26.240	25.726	25.726	25.211	25.211	24.697	24.697	24.697
87.5	10.805	10.805	10.290	10.290	10.290	9.776	9.776	9.261	9.261	9.261
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	599.922	599.922	599.922	599.922	599.922	599.922	599.922	599.922	599.922	599.922
2.5	600.437	600.437	600.437	600.437	599.922	599.922	599.408	599.408	599.408	599.408
5.0	601.980	601.980	601.466	600.951	600.437	599.922	599.408	598.893	598.379	597.864
7.5	604.038	603.524	603.009	601.980	600.437	599.408	597.864	596.835	595.806	594.777
10.0	608.669	607.640	607.125	605.582	603.009	600.437	598.379	595.806	593.748	591.175
12.5	611.756	611.241	610.212	608.154	604.553	601.466	597.864	594.777	590.661	587.059
15.0	613.814	612.270	611.241	608.669	604.553	599.922	595.806	591.690	586.545	580.885
17.5	614.329	612.785	611.241	608.154	603.009	597.864	592.719	587.574	580.885	573.682
20.0	611.756	610.212	608.669	605.067	599.408	593.748	588.088	582.429	574.197	565.450
22.5	606.611	605.067	603.524	599.408	592.719	586.545	579.856	573.682	563.906	554.130
25.0	598.893	597.350	595.806	591.175	584.487	577.798	570.595	563.906	553.101	542.297
27.5	588.088	586.545	585.001	580.371	573.682	566.479	559.790	552.587	540.753	529.434

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-B-835-ASY-DSO-ITL89599-ITL94139.015.IES

CANDELA TABULATION - (Cont.)

30.0	572.653	571.624	570.080	565.964	559.276	552.072	545.384	538.181	525.832	513.999
32.5	555.674	554.645	553.616	550.014	543.326	536.637	529.948	523.260	510.397	497.534
35.0	534.579	534.064	533.550	529.948	524.289	518.115	512.455	506.281	492.903	479.526
37.5	511.940	511.426	510.911	508.339	502.679	497.020	491.874	486.215	472.837	459.460
40.0	486.729	486.729	487.244	484.671	479.526	474.896	469.750	464.605	451.228	438.365
42.5	459.460	459.975	460.489	458.431	454.315	450.713	446.597	442.481	429.618	416.241
45.0	431.676	432.191	432.705	431.676	428.589	424.988	421.901	418.814	405.951	393.602
47.5	403.378	403.893	404.407	403.378	400.806	398.233	395.661	393.088	381.254	369.420
50.0	372.507	374.051	375.080	374.565	372.507	370.964	368.906	366.848	355.529	344.724
52.5	343.695	345.238	346.267	346.267	344.724	343.180	341.637	340.093	329.803	319.513
55.0	314.882	315.397	316.425	316.425	315.397	314.882	313.853	312.824	303.563	293.787
57.5	284.526	286.069	287.613	287.613	287.098	286.584	286.069	285.555	276.808	268.576
60.0	256.742	258.286	259.829	260.344	259.829	259.315	258.800	258.286	250.568	242.850
62.5	228.444	229.987	231.016	231.531	231.531	232.045	232.045	232.045	224.842	218.154
65.0	201.175	202.718	203.747	204.262	204.262	204.776	204.776	204.776	199.117	193.457
67.5	174.420	175.963	176.993	177.507	178.022	178.536	178.536	179.050	173.905	169.275
70.0	149.209	150.238	151.267	152.296	152.810	153.325	153.839	154.354	150.238	146.122
72.5	125.541	126.056	127.085	128.114	128.628	129.143	129.657	130.172	127.085	123.483
75.0	102.903	103.417	103.932	104.961	105.475	105.990	106.504	107.019	104.446	101.874
77.5	80.778	81.293	81.808	82.837	83.351	83.866	84.380	84.895	82.837	81.293
80.0	60.712	61.227	61.742	62.256	62.771	63.285	64.314	64.829	63.285	62.256
82.5	42.190	42.705	43.219	43.219	43.734	44.248	44.763	45.277	44.763	43.734
85.0	25.211	25.211	25.726	25.726	26.240	26.755	26.755	27.269	27.269	27.269
87.5	9.776	9.776	10.290	10.290	10.290	10.805	10.805	10.805	10.805	11.319
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-B-835-ASY-DSO-ITL89599-ITL94139.015.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

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	599.922	599.922	599.922	599.922	599.922	599.922	599.922
2.5	598.893	598.893	598.893	598.893	598.893	598.893	598.893
5.0	597.350	596.835	596.321	596.321	595.806	595.806	595.806
7.5	593.748	592.719	592.205	591.690	591.175	590.661	590.146
10.0	589.117	586.545	585.001	584.487	583.972	583.458	582.943
12.5	582.943	579.342	576.769	576.255	575.740	574.711	574.197
15.0	575.740	570.080	566.993	565.964	564.421	563.392	562.363
17.5	566.993	560.305	556.188	554.645	553.101	551.558	550.014
20.0	557.218	548.471	543.326	541.268	538.695	536.637	534.579
22.5	544.355	534.579	528.405	525.832	523.260	520.687	518.115
25.0	531.492	520.687	513.999	510.397	506.795	503.194	499.592
27.5	517.600	505.766	498.049	493.933	489.302	485.186	481.070
30.0	501.650	489.816	481.070	475.925	471.294	466.149	461.004
32.5	484.671	471.808	462.547	456.887	451.228	446.083	440.423
35.0	465.634	452.257	442.481	436.822	430.647	424.988	418.814
37.5	446.083	432.705	422.930	416.755	410.067	403.893	397.719
40.0	424.988	412.125	401.835	395.146	388.457	381.769	375.080
42.5	403.378	390.515	380.225	373.536	366.848	360.159	353.470
45.0	380.740	367.877	358.101	351.412	344.724	338.035	331.346
47.5	357.587	345.753	336.491	329.803	323.114	316.425	309.737
50.0	333.404	322.600	313.853	307.164	300.476	293.787	287.098
52.5	308.708	298.418	290.185	284.011	277.322	271.148	264.974
55.0	284.526	274.750	267.032	261.373	255.713	250.053	244.394
57.5	259.829	251.082	244.394	238.734	233.589	227.929	222.784
60.0	235.132	227.415	220.726	216.095	211.465	206.834	202.204
62.5	210.950	204.262	198.602	194.486	190.884	186.768	182.652
65.0	187.797	182.138	176.993	173.391	169.275	165.673	161.557
67.5	164.130	159.499	155.383	152.296	149.209	146.122	143.035
70.0	142.006	137.889	134.288	131.715	129.143	126.570	123.998
72.5	120.396	116.794	114.222	112.164	109.591	107.533	105.475
75.0	99.301	96.728	94.156	92.612	91.069	89.525	87.982
77.5	79.235	77.692	76.148	75.119	73.575	72.546	71.517
80.0	60.712	59.169	58.140	57.626	57.111	56.596	56.082
82.5	43.219	42.705	42.190	41.676	41.676	41.161	41.161
85.0	26.755	26.755	26.755	26.240	26.240	25.726	25.726
87.5	11.319	11.834	11.834	11.834	11.834	11.834	11.834
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-B-835-ASY-DSO-ITL89599-ITL94139.015.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-B-835-ASY-DSO-ITL89599-ITL94139.015.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	223.70	N.A.	6.50
0-30	479.85	N.A.	13.90
0-40	786.31	N.A.	22.80
0-60	1356.94	N.A.	39.40
0-80	1654.27	N.A.	48.00
0-90	1685.39	N.A.	48.90
10-90	1628.32	N.A.	47.20
20-40	562.61	N.A.	16.30
20-50	869.82	N.A.	25.20
40-70	761.24	N.A.	22.10
60-80	297.32	N.A.	8.60
70-80	106.72	N.A.	3.10
80-90	31.12	N.A.	0.90
90-110	212.23	N.A.	6.20
90-120	492.52	N.A.	14.30
90-130	814.00	N.A.	23.60
90-150	1376.58	N.A.	39.90
90-180	1761.2	N.A.	51.10
110-180	1548.98	N.A.	44.90
0-180	3446.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.07
10-20	166.63
20-30	256.16
30-40	306.45
40-50	307.21
50-60	263.43
60-70	190.60
70-80	106.72
80-90	31.12
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

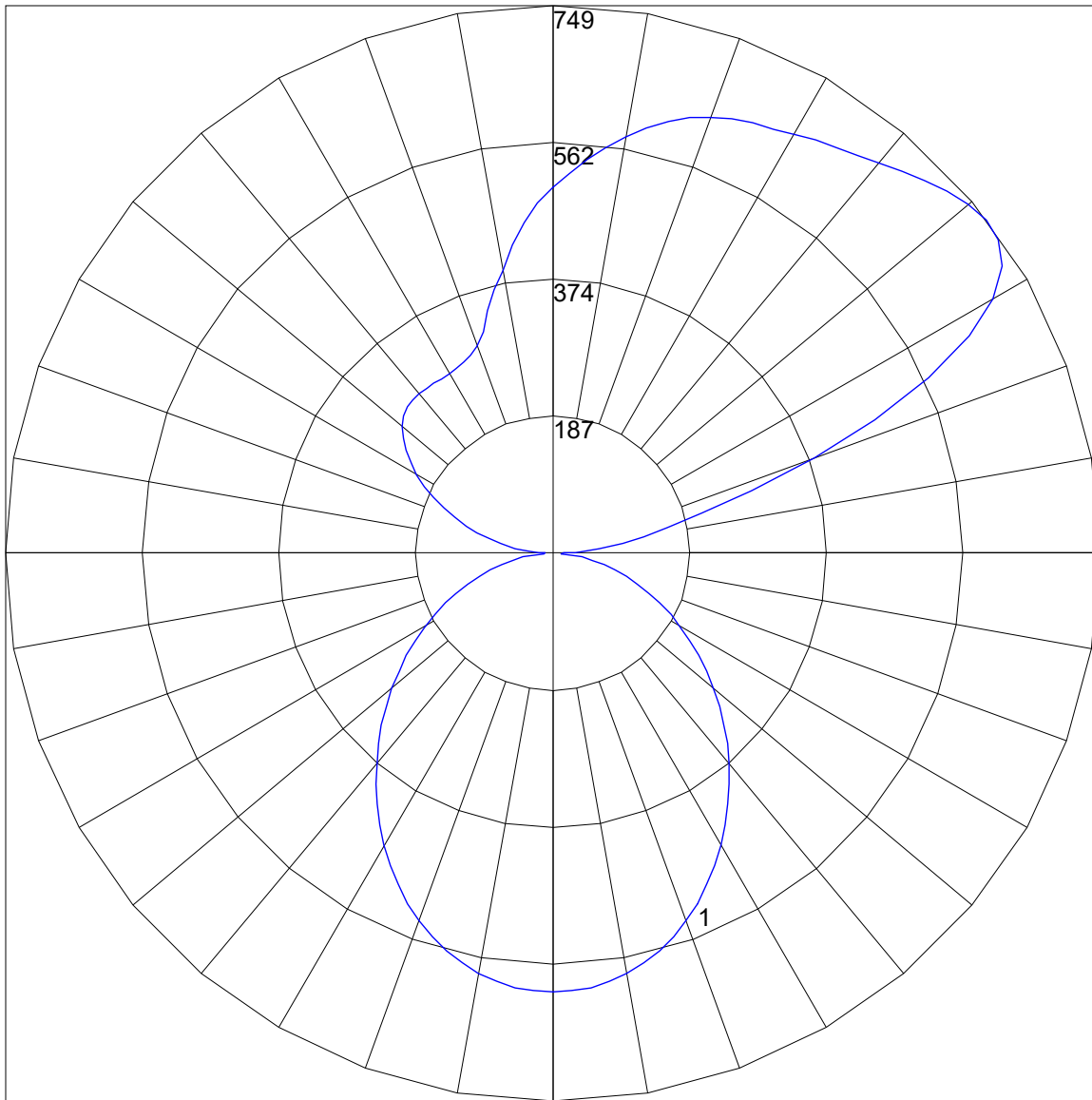
PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-B-835-ASY-DSO-ITL89599-ITL94139.015.IES

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	48	47	41
2	89	81	75	70	82	75	70	65	64	60	56	53	50	47	43	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	59	52	46	50	44	40	41	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	22
6	63	50	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	19	17
8	54	41	34	28	49	38	31	27	33	27	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	13
10	47	35	27	22	43	32	26	21	28	23	19	24	19	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 748.866 Located At Horizontal Angle = 0, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)