

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-S-835-ASY-DSO-ITL89599-ITL94139.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599.003 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-S-835-ASY-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 28.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 30.9 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]3101

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3103
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	28.4
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	5661	7155	7349
55	5147	6589	6589
65	4618	5854	5692
75	4107	4995	4731
85	3566	3780	3423

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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	477.372	477.372	477.372	477.372	477.372	477.372	477.372	477.372	477.372	477.372
2.5	476.553	476.553	476.553	476.553	476.553	476.553	476.553	476.963	476.963	476.963
5.0	474.097	474.097	474.097	474.506	474.506	474.916	475.325	475.734	476.144	476.553
7.5	469.593	470.003	470.412	470.822	471.231	471.640	472.459	473.278	474.097	474.916
10.0	463.861	464.271	464.680	465.090	465.499	466.727	468.774	470.412	472.459	474.097
12.5	456.902	457.311	458.130	458.539	458.949	460.996	463.861	467.137	470.003	473.278
15.0	447.485	448.304	449.123	450.351	451.170	453.626	458.130	462.224	466.727	470.822
17.5	437.659	438.887	440.116	441.344	442.572	445.848	451.170	456.492	462.224	467.546
20.0	425.377	427.015	428.652	430.699	432.337	436.431	443.391	449.942	456.902	463.452
22.5	412.276	414.323	416.370	418.417	420.464	425.377	433.156	440.935	448.713	456.492
25.0	397.537	400.403	403.269	406.135	409.001	414.323	422.921	431.518	440.116	448.713
27.5	382.798	386.074	389.349	393.034	396.309	402.450	411.866	421.283	430.290	439.706
30.0	366.831	370.925	375.020	378.704	382.798	389.758	399.175	409.001	418.417	428.243
32.5	350.455	354.959	359.053	363.556	368.060	375.429	385.664	395.899	406.135	416.370
35.0	333.260	338.173	342.676	347.589	352.093	359.871	370.516	381.570	392.215	402.859
37.5	316.474	321.387	326.300	331.622	336.535	344.314	354.959	365.603	376.248	386.892
40.0	298.460	303.782	309.105	314.427	319.749	327.937	338.173	348.817	359.053	369.697
42.5	281.265	286.587	291.909	297.232	302.554	310.742	320.977	331.213	341.857	352.093
45.0	263.660	268.982	274.305	279.627	284.949	292.728	302.963	313.199	323.024	333.260
47.5	246.465	251.787	257.110	262.432	267.754	275.123	284.540	293.956	303.373	312.789
50.0	228.451	233.773	239.095	244.418	249.740	256.700	265.298	274.305	282.902	291.909
52.5	210.846	215.759	220.672	225.994	230.907	237.458	245.646	254.244	262.432	270.620
55.0	194.470	198.973	203.477	207.980	212.484	218.625	226.404	233.773	241.552	248.921
57.5	177.274	181.369	185.872	189.966	194.470	199.792	206.752	213.712	220.263	227.222
60.0	160.898	164.583	168.268	171.952	175.637	180.959	187.100	193.242	199.383	205.524
62.5	145.340	148.616	151.891	154.757	158.032	162.536	167.858	173.590	178.912	184.644
65.0	128.555	131.830	134.696	137.971	140.837	144.931	149.435	153.938	158.442	162.945
67.5	113.816	116.272	118.729	121.185	123.642	126.917	130.602	134.696	138.381	142.475
70.0	98.668	100.715	102.762	104.809	106.856	109.722	112.997	116.272	119.548	122.823
72.5	83.929	85.567	87.204	89.251	90.889	92.936	95.802	98.258	101.124	103.581
75.0	70.009	71.237	72.466	73.694	74.922	76.969	79.016	81.063	83.110	85.157
77.5	56.908	57.727	58.546	59.774	60.593	61.821	63.049	64.687	65.915	67.553
80.0	44.626	45.035	45.444	45.854	46.263	47.082	48.310	49.539	50.357	51.586
82.5	32.753	32.753	33.162	33.162	33.572	33.981	34.390	34.800	35.619	36.028
85.0	20.471	20.471	20.880	20.880	21.289	21.289	21.289	21.699	21.699	21.699
87.5	9.416	9.416	9.416	9.416	9.416	9.416	9.007	9.007	8.598	8.598
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

IES INDOOR REPORT

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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	477.372	477.372	477.372	477.372	477.372	477.372	477.372	477.372	477.372	477.372
2.5	476.963	477.372	477.372	477.781	477.781	477.781	477.781	477.781	477.781	477.781
5.0	476.963	477.372	477.781	478.191	478.600	479.010	479.010	479.419	479.419	479.419
7.5	475.734	476.963	477.781	479.010	479.829	480.238	480.647	481.466	481.876	481.466
10.0	476.144	477.781	479.829	481.876	483.104	483.513	484.332	484.741	485.560	484.741
12.5	475.734	478.600	481.057	483.923	485.560	486.379	486.788	487.607	488.426	487.607
15.0	474.097	477.372	481.057	484.332	486.379	487.198	488.426	489.245	490.064	489.245
17.5	471.640	475.734	479.829	483.923	486.379	487.607	488.836	489.654	490.883	489.654
20.0	467.956	472.459	476.963	481.466	484.332	485.560	486.788	488.017	489.245	488.017
22.5	461.405	466.727	471.640	476.963	480.238	481.466	482.694	484.332	485.560	484.332
25.0	454.036	459.767	465.090	470.412	474.097	475.325	476.553	477.781	479.010	477.781
27.5	445.438	450.760	456.492	461.815	465.499	466.727	467.956	469.184	470.412	469.184
30.0	433.975	439.297	445.029	450.351	453.626	454.854	455.673	456.902	457.720	456.902
32.5	421.692	427.015	432.337	437.659	440.525	441.344	442.163	442.982	443.800	442.982
35.0	407.772	412.276	417.189	421.692	424.558	424.968	425.377	426.196	426.605	426.196
37.5	391.396	395.490	399.994	404.497	406.544	406.954	407.363	407.363	407.772	407.363
40.0	373.791	377.885	381.570	385.664	387.711	387.302	387.302	386.892	386.892	386.892
42.5	355.368	358.643	361.509	364.784	366.422	366.012	365.603	365.194	364.784	365.194
45.0	335.716	338.173	341.038	343.495	344.314	343.904	343.495	342.676	342.267	342.676
47.5	314.836	316.883	318.930	320.977	321.796	321.387	320.977	320.159	319.749	320.159
50.0	293.547	295.185	296.413	298.050	298.460	297.641	296.413	295.594	294.775	295.594
52.5	271.848	273.077	274.305	275.533	275.533	274.714	273.486	272.667	271.848	272.667
55.0	249.740	250.559	250.968	251.787	251.787	250.968	250.559	249.740	248.921	249.740
57.5	227.632	228.041	228.451	228.860	228.860	227.632	226.404	225.175	223.947	225.175
60.0	205.933	206.343	206.752	207.161	206.752	205.524	204.296	203.067	201.839	203.067
62.5	184.644	184.644	184.234	184.234	183.825	183.006	181.778	180.959	180.140	180.959
65.0	162.945	162.945	162.536	162.536	162.126	161.308	160.079	159.261	158.442	159.261
67.5	142.065	142.065	141.656	141.246	140.837	140.018	138.790	137.971	137.152	137.971
70.0	122.414	122.004	121.595	121.185	120.367	119.548	118.729	117.910	117.091	117.910
72.5	103.171	102.762	102.353	101.943	101.124	100.305	99.896	99.077	98.258	99.077
75.0	84.748	84.338	83.929	83.520	82.701	82.291	81.882	81.063	80.654	81.063
77.5	67.143	66.734	66.324	65.915	65.096	64.687	64.277	63.868	63.459	63.868
80.0	51.176	50.357	49.948	49.539	49.129	48.720	48.310	47.901	47.492	47.901

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CANDELA TABULATION - (Cont.)

82.5	35.619	35.209	34.800	34.390	34.390	33.981	33.572	33.572	33.162	33.572
85.0	21.289	21.289	20.880	20.471	20.471	20.061	20.061	19.652	19.652	19.652
87.5	8.598	8.598	8.188	8.188	8.188	7.779	7.779	7.369	7.369	7.369
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	477.372	477.372	477.372	477.372	477.372	477.372	477.372	477.372	477.372	477.372
2.5	477.781	477.781	477.781	477.781	477.372	477.372	476.963	476.963	476.963	476.963
5.0	479.010	479.010	478.600	478.191	477.781	477.372	476.963	476.553	476.144	475.734
7.5	480.647	480.238	479.829	479.010	477.781	476.963	475.734	474.916	474.097	473.278
10.0	484.332	483.513	483.104	481.876	479.829	477.781	476.144	474.097	472.459	470.412
12.5	486.788	486.379	485.560	483.923	481.057	478.600	475.734	473.278	470.003	467.137
15.0	488.426	487.198	486.379	484.332	481.057	477.372	474.097	470.822	466.727	462.224
17.5	488.836	487.607	486.379	483.923	479.829	475.734	471.640	467.546	462.224	456.492
20.0	486.788	485.560	484.332	481.466	476.963	472.459	467.956	463.452	456.902	449.942
22.5	482.694	481.466	480.238	476.963	471.640	466.727	461.405	456.492	448.713	440.935
25.0	476.553	475.325	474.097	470.412	465.090	459.767	454.036	448.713	440.116	431.518
27.5	467.956	466.727	465.499	461.815	456.492	450.760	445.438	439.706	430.290	421.283

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-S-835-ASY-DSO-ITL89599-ITL94139.003.IES

CANDELA TABULATION - (Cont.)

30.0	455.673	454.854	453.626	450.351	445.029	439.297	433.975	428.243	418.417	409.001
32.5	442.163	441.344	440.525	437.659	432.337	427.015	421.692	416.370	406.135	395.899
35.0	425.377	424.968	424.558	421.692	417.189	412.276	407.772	402.859	392.215	381.570
37.5	407.363	406.954	406.544	404.497	399.994	395.490	391.396	386.892	376.248	365.603
40.0	387.302	387.302	387.711	385.664	381.570	377.885	373.791	369.697	359.053	348.817
42.5	365.603	366.012	366.422	364.784	361.509	358.643	355.368	352.093	341.857	331.213
45.0	343.495	343.904	344.314	343.495	341.038	338.173	335.716	333.260	323.024	313.199
47.5	320.977	321.387	321.796	320.977	318.930	316.883	314.836	312.789	303.373	293.956
50.0	296.413	297.641	298.460	298.050	296.413	295.185	293.547	291.909	282.902	274.305
52.5	273.486	274.714	275.533	275.533	274.305	273.077	271.848	270.620	262.432	254.244
55.0	250.559	250.968	251.787	251.787	250.968	250.559	249.740	248.921	241.552	233.773
57.5	226.404	227.632	228.860	228.860	228.451	228.041	227.632	227.222	220.263	213.712
60.0	204.296	205.524	206.752	207.161	206.752	206.343	205.933	205.524	199.383	193.242
62.5	181.778	183.006	183.825	184.234	184.234	184.644	184.644	184.644	178.912	173.590
65.0	160.079	161.308	162.126	162.536	162.536	162.945	162.945	162.945	158.442	153.938
67.5	138.790	140.018	140.837	141.246	141.656	142.065	142.065	142.475	138.381	134.696
70.0	118.729	119.548	120.367	121.185	121.595	122.004	122.414	122.823	119.548	116.272
72.5	99.896	100.305	101.124	101.943	102.353	102.762	103.171	103.581	101.124	98.258
75.0	81.882	82.291	82.701	83.520	83.929	84.338	84.748	85.157	83.110	81.063
77.5	64.277	64.687	65.096	65.915	66.324	66.734	67.143	67.553	65.915	64.687
80.0	48.310	48.720	49.129	49.539	49.948	50.357	51.176	51.586	50.357	49.539
82.5	33.572	33.981	34.390	34.390	34.800	35.209	35.619	36.028	35.619	34.800
85.0	20.061	20.061	20.471	20.471	20.880	21.289	21.289	21.699	21.699	21.699
87.5	7.779	7.779	8.188	8.188	8.188	8.598	8.598	8.598	8.598	9.007
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-S-835-ASY-DSO-ITL89599-ITL94139.003.IES

CANDELA TABULATION - (Cont.)

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

Vert. Horizontal Angles

	150	155	160	165	170	175	180
0.0	477.372	477.372	477.372	477.372	477.372	477.372	477.372
2.5	476.553	476.553	476.553	476.553	476.553	476.553	476.553
5.0	475.325	474.916	474.506	474.506	474.097	474.097	474.097
7.5	472.459	471.640	471.231	470.822	470.412	470.003	469.593
10.0	468.774	466.727	465.499	465.090	464.680	464.271	463.861
12.5	463.861	460.996	458.949	458.539	458.130	457.311	456.902
15.0	458.130	453.626	451.170	450.351	449.123	448.304	447.485
17.5	451.170	445.848	442.572	441.344	440.116	438.887	437.659
20.0	443.391	436.431	432.337	430.699	428.652	427.015	425.377
22.5	433.156	425.377	420.464	418.417	416.370	414.323	412.276
25.0	422.921	414.323	409.001	406.135	403.269	400.403	397.537
27.5	411.866	402.450	396.309	393.034	389.349	386.074	382.798
30.0	399.175	389.758	382.798	378.704	375.020	370.925	366.831
32.5	385.664	375.429	368.060	363.556	359.053	354.959	350.455
35.0	370.516	359.871	352.093	347.589	342.676	338.173	333.260
37.5	354.959	344.314	336.535	331.622	326.300	321.387	316.474
40.0	338.173	327.937	319.749	314.427	309.105	303.782	298.460
42.5	320.977	310.742	302.554	297.232	291.909	286.587	281.265
45.0	302.963	292.728	284.949	279.627	274.305	268.982	263.660
47.5	284.540	275.123	267.754	262.432	257.110	251.787	246.465
50.0	265.298	256.700	249.740	244.418	239.095	233.773	228.451
52.5	245.646	237.458	230.907	225.994	220.672	215.759	210.846
55.0	226.404	218.625	212.484	207.980	203.477	198.973	194.470
57.5	206.752	199.792	194.470	189.966	185.872	181.369	177.274
60.0	187.100	180.959	175.637	171.952	168.268	164.583	160.898
62.5	167.858	162.536	158.032	154.757	151.891	148.616	145.340
65.0	149.435	144.931	140.837	137.971	134.696	131.830	128.555
67.5	130.602	126.917	123.642	121.185	118.729	116.272	113.816
70.0	112.997	109.722	106.856	104.809	102.762	100.715	98.668
72.5	95.802	92.936	90.889	89.251	87.204	85.567	83.929
75.0	79.016	76.969	74.922	73.694	72.466	71.237	70.009
77.5	63.049	61.821	60.593	59.774	58.546	57.727	56.908
80.0	48.310	47.082	46.263	45.854	45.444	45.035	44.626
82.5	34.390	33.981	33.572	33.162	33.162	32.753	32.753
85.0	21.289	21.289	21.289	20.880	20.880	20.471	20.471
87.5	9.007	9.416	9.416	9.416	9.416	9.416	9.416
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-S-835-ASY-DSO-ITL89599-ITL94139.003.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-S-835-ASY-DSO-ITL89599-ITL94139.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	178.00	N.A.	5.70
0-30	381.83	N.A.	12.30
0-40	625.68	N.A.	20.20
0-60	1079.75	N.A.	34.80
0-80	1316.34	N.A.	42.40
0-90	1341.32	N.A.	43.20
10-90	1295.91	N.A.	41.80
20-40	447.68	N.A.	14.40
20-50	692.13	N.A.	22.30
40-70	605.74	N.A.	19.50
60-80	236.59	N.A.	7.60
70-80	84.92	N.A.	2.70
80-90	24.98	N.A.	0.80
90-110	212.23	N.A.	6.80
90-120	492.52	N.A.	15.90
90-130	814.00	N.A.	26.20
90-150	1376.58	N.A.	44.40
90-180	1761.2	N.A.	56.80
110-180	1548.98	N.A.	49.90
0-180	3102.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.41
10-20	132.59
20-30	203.83
30-40	243.85
40-50	244.45
50-60	209.62
60-70	151.67
70-80	84.92
80-90	24.98
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

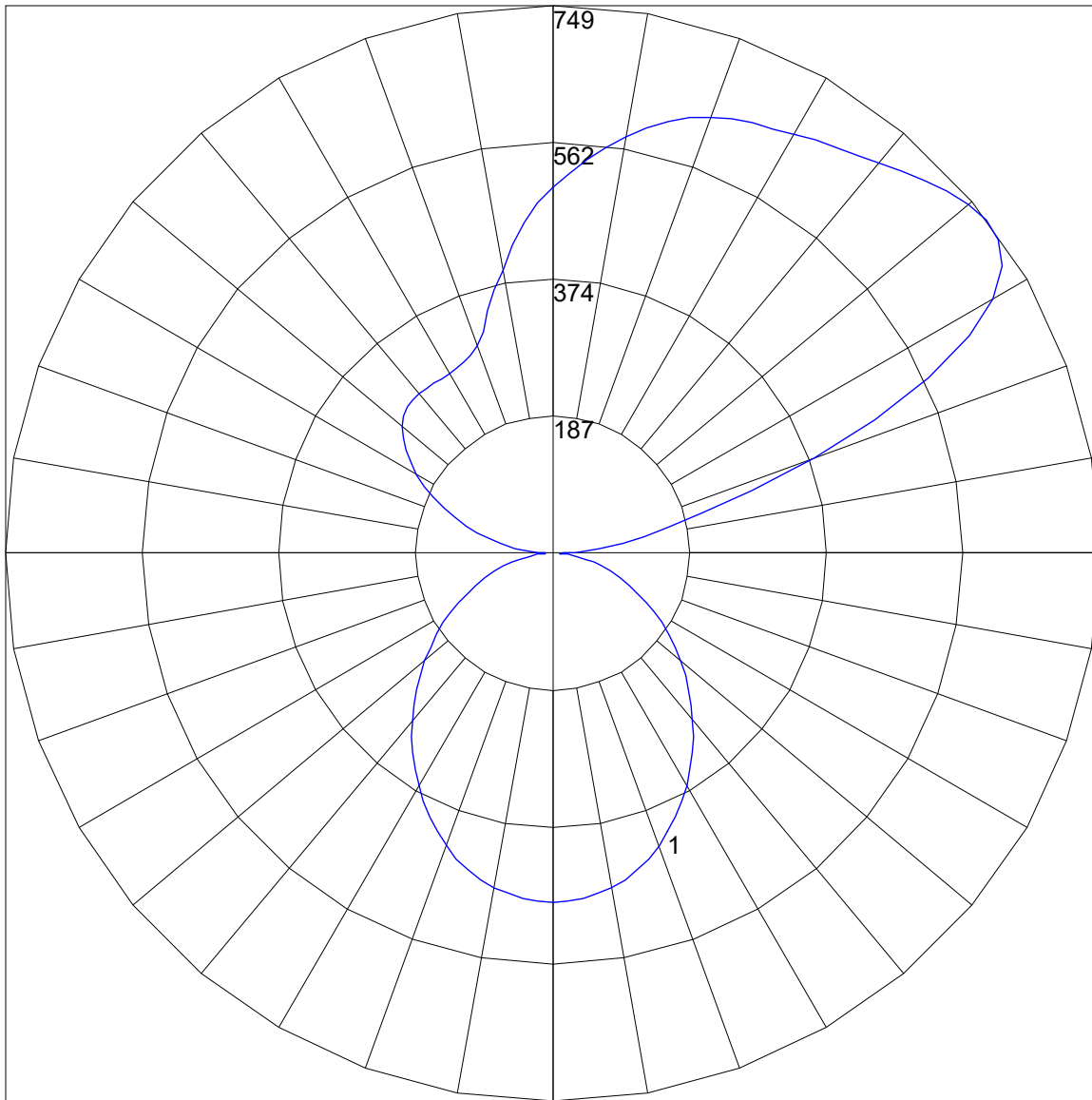
PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-S-835-ASY-DSO-ITL89599-ITL94139.003.IES

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	44	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	37	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

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.)