

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-B-835-ASY-DSO-ITL89599-ITL94139.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599-ITL94139.002 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-B-835-ASY-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 36.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 38.1 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]3899

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3899
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	36.1
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	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

	50	55	60	65	70	75	80	85	90	95
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	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	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-B-B-835-ASY-DSO-ITL89599-ITL94139.002.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	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-B-835-ASY-DSO-ITL89599-ITL94139.002.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	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	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-B-835-ASY-DSO-ITL89599-ITL94139.002.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-B-835-ASY-DSO-ITL89599-ITL94139.002.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	223.70	N.A.	5.70
0-30	479.85	N.A.	12.30
0-40	786.31	N.A.	20.20
0-60	1356.94	N.A.	34.80
0-80	1654.27	N.A.	42.40
0-90	1685.66	N.A.	43.20
10-90	1628.6	N.A.	41.80
20-40	562.61	N.A.	14.40
20-50	869.82	N.A.	22.30
40-70	761.24	N.A.	19.50
60-80	297.32	N.A.	7.60
70-80	106.72	N.A.	2.70
80-90	31.40	N.A.	0.80
90-110	266.70	N.A.	6.80
90-120	618.94	N.A.	15.90
90-130	1022.93	N.A.	26.20
90-150	1729.91	N.A.	44.40
90-180	2213.26	N.A.	56.80
110-180	1946.56	N.A.	49.90
0-180	3898.92	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	31.40
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-B-835-ASY-DSO-ITL89599-ITL94139.002.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

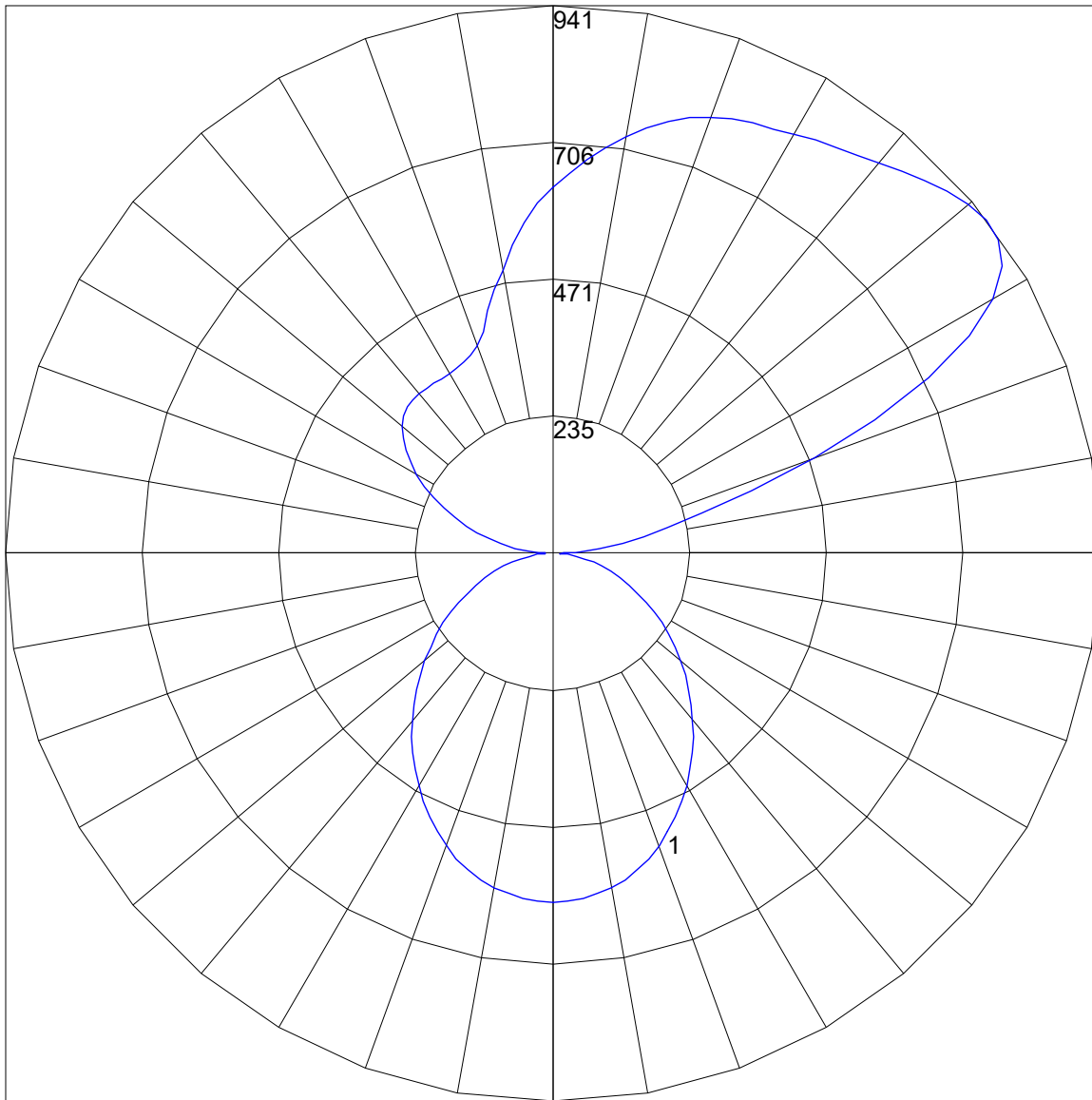
Effective Floor Cavity Reflectance 0.20

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	38	31	26	32	26	22	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-835-ASY-DSO-ITL89599-ITL94139.002.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.)