

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-S-835-ASY-DAO-ITL89599-KPL2008-3.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599-KPL2008-3.012 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/17

[ISSUEDATE]08/29/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-B-S-835-ASY-DAO

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 34.7 WATTS

[OTHER]see www.finelite.com for source files ITL89599 and KPL2008-3. 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]3745

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3735
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	32.4
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	9442	9777	7106
55	8013	8879	6338
65	6616	7687	5604
75	5519	6534	4703
85	5508	6508	3911

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	577.911	577.911	577.911	577.911	577.911	577.911	577.911	577.911	577.911	577.911
2.5	597.585	596.610	593.761	595.419	593.720	590.233	589.851	590.957	589.896	580.886
5.0	620.023	618.068	614.882	614.159	609.314	603.153	599.414	596.354	591.680	577.911
7.5	638.978	637.235	632.561	630.732	623.847	613.821	606.937	600.223	591.595	573.404
10.0	654.702	653.471	648.326	644.079	635.068	622.275	612.334	602.178	589.469	566.820
12.5	669.999	667.959	661.160	655.677	644.331	628.099	615.349	601.836	585.389	558.489
15.0	678.668	676.502	670.381	664.009	647.944	631.626	615.902	599.414	579.695	548.629
17.5	681.984	679.562	673.824	667.155	653.938	633.028	613.907	594.314	571.152	536.347
20.0	679.010	676.843	671.869	665.793	652.491	631.370	609.615	587.006	561.252	524.533
22.5	671.276	669.150	664.899	659.250	646.883	625.591	603.535	576.806	548.458	509.744
25.0	657.848	656.994	653.979	649.008	637.661	616.329	594.143	565.544	535.075	493.894
27.5	643.396	640.124	637.873	634.475	624.018	604.852	582.414	551.860	519.437	475.833
30.0	622.149	619.686	619.088	616.540	608.042	588.534	566.649	535.628	501.034	457.731
32.5	598.691	597.163	597.118	596.098	590.363	572.047	549.182	518.287	482.592	437.204
35.0	570.474	571.961	571.408	574.424	569.027	550.925	528.910	499.502	462.446	417.318
37.5	541.151	541.533	543.829	548.162	543.915	528.699	506.432	477.064	440.475	396.534
40.0	509.532	510.553	513.271	519.563	518.035	504.985	483.652	455.309	418.379	376.433
42.5	474.175	476.768	481.783	489.858	488.667	477.999	458.028	431.510	395.559	353.231
45.0	439.756	441.711	448.933	456.667	459.601	451.184	442.857	405.841	370.528	330.964
47.5	407.117	407.158	414.469	424.499	429.470	423.264	404.736	380.172	346.773	308.099
50.0	370.061	370.357	379.579	390.629	396.620	394.453	376.051	352.297	321.783	285.023
52.5	335.808	337.467	346.940	356.759	367.212	364.834	347.111	325.608	297.350	262.756
55.0	302.747	304.531	313.155	326.290	335.979	334.914	319.788	298.878	272.998	239.469
57.5	269.088	272.786	280.350	294.074	304.019	303.084	289.913	272.063	248.052	217.795
60.0	239.087	241.720	249.158	261.269	272.404	273.465	262.330	244.866	225.062	197.227
62.5	208.996	213.207	221.237	231.735	242.529	243.590	234.495	218.815	200.966	172.436
65.0	184.181	185.668	192.890	202.583	211.886	216.096	208.659	192.890	177.337	155.988
67.5	159.447	159.874	167.904	175.085	184.222	188.769	182.055	168.713	155.834	136.375
70.0	136.416	137.350	143.129	150.863	159.487	162.548	157.833	145.722	133.908	116.128
72.5	113.722	114.360	119.968	125.321	133.908	136.883	131.526	123.154	114.827	97.876
75.0	94.088	95.193	99.314	104.923	110.194	112.572	109.556	101.822	93.194	80.173
77.5	75.048	77.003	79.595	84.781	88.988	90.560	88.309	82.485	75.942	64.424
80.0	58.816	59.962	62.132	65.700	68.293	69.354	67.529	64.127	59.368	48.920
82.5	43.941	44.538	46.237	48.318	50.700	51.293	50.188	48.107	46.067	35.516
85.0	31.619	31.184	32.391	36.971	37.126	37.597	36.658	35.354	29.262	22.454
87.5	18.979	19.829	19.601	20.593	21.438	21.414	20.442	18.406	16.354	10.591
90.0	14.631	14.631	13.818	12.192	10.567	8.128	5.690	3.658	1.626	0.000
92.5	40.133	40.648	40.133	38.075	34.474	32.415	30.872	28.299	24.697	12.349
95.0	80.267	81.296	80.267	77.694	75.121	72.549	68.947	62.773	51.968	30.357
97.5	121.944	122.973	121.429	121.429	121.429	119.885	113.197	100.333	79.238	49.395
100.0	157.961	160.533	163.621	171.338	176.998	174.426	162.077	139.438	105.993	68.947
102.5	202.725	208.385	218.675	234.626	243.373	236.169	213.530	176.998	130.691	87.985
105.0	263.954	274.759	295.855	315.407	319.009	302.544	264.983	211.472	153.844	107.537
107.5	358.627	370.976	393.101	406.479	403.392	373.034	314.378	241.829	175.455	127.603
110.0	479.542	485.716	499.609	505.268	488.289	435.807	355.540	268.070	196.036	147.670
112.5	598.913	602.515	609.718	601.486	562.896	486.231	387.441	291.738	216.103	167.737
115.0	714.682	713.653	709.022	680.723	619.494	524.306	413.682	312.834	236.684	188.833
117.5	807.812	800.094	783.629	739.894	660.142	550.547	433.749	332.386	257.265	210.443
120.0	874.186	863.381	836.111	778.484	684.839	568.556	451.243	351.424	278.361	231.538
122.5	916.892	903.515	868.012	799.580	699.761	581.933	466.679	370.462	299.456	252.634
125.0	936.959	922.552	881.904	808.327	707.479	592.739	481.600	389.499	320.038	273.730
127.5	941.075	926.154	882.933	808.841	711.080	602.000	497.036	408.537	340.619	294.311
130.0	933.872	918.951	876.245	805.239	712.624	610.747	512.986	428.089	362.229	315.921
132.5	920.494	907.631	866.983	799.580	714.168	620.009	528.422	448.156	383.839	337.532

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CANDELA TABULATION - (Cont.)

135.0	905.573	892.710	855.149	793.920	716.226	629.785	543.858	467.193	405.450	359.656
137.5	890.651	878.303	844.344	789.289	719.313	640.075	560.323	486.745	426.545	381.781
140.0	874.701	864.925	835.082	785.687	722.400	650.366	576.274	506.298	447.641	403.392
142.5	861.838	853.605	827.364	783.629	726.002	660.656	592.224	525.335	469.251	425.002
145.0	851.033	843.829	820.161	781.057	730.118	671.462	607.660	543.344	489.318	446.612
147.5	841.257	834.568	813.986	778.998	734.234	681.238	622.067	560.838	509.385	467.708
150.0	830.451	825.306	807.812	777.455	738.351	690.499	634.415	576.788	528.422	489.318
152.5	821.704	817.074	802.667	776.940	741.438	697.703	645.735	591.709	546.431	509.385
155.0	814.501	809.870	797.521	774.882	742.981	702.848	654.482	604.573	562.896	528.422
157.5	807.298	802.667	791.862	771.280	741.438	704.906	661.171	616.407	578.846	546.431
160.0	797.521	792.891	782.600	764.592	737.836	704.906	665.802	625.668	592.224	562.896
162.5	784.658	780.542	771.280	754.815	730.633	702.333	668.374	633.901	604.573	577.817
165.0	768.193	764.077	755.330	741.438	721.371	697.188	668.889	639.561	614.863	591.195
167.5	748.641	745.039	737.836	726.002	709.537	689.985	667.345	643.162	622.581	602.515
170.0	726.002	722.915	717.255	707.993	696.159	681.238	663.229	644.706	628.756	611.262
172.5	702.848	700.790	696.674	690.499	681.238	669.918	657.569	644.192	631.843	618.465
175.0	678.151	676.607	673.520	669.918	664.258	657.569	649.851	641.104	632.872	624.639
177.5	652.939	652.424	651.395	649.337	647.279	644.192	640.075	635.959	631.843	627.727
180.0	628.756	628.756	628.756	628.756	628.756	628.756	628.756	628.756	628.756	628.756

Vert. Angles

Horizontal Angles

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>
0.0	577.911	577.911	577.911	577.911	577.911	577.911	577.911	577.911	577.911
2.5	580.715	573.957	566.353	560.870	558.318	556.111	552.116	551.945	553.644
5.0	573.831	563.930	552.840	544.935	541.237	537.242	531.548	532.352	531.121
7.5	564.820	551.734	537.835	528.658	523.980	519.010	512.467	513.698	512.593
10.0	554.282	538.176	523.472	512.849	507.110	501.160	496.105	495.893	496.190
12.5	542.127	523.558	507.874	496.913	490.622	484.335	477.999	478.255	479.019
15.0	529.548	509.362	493.004	480.933	474.390	467.420	456.199	461.385	461.767
17.5	514.718	493.426	477.235	464.401	457.179	450.847	446.043	445.320	446.214
20.0	499.120	477.406	460.621	448.636	441.325	435.334	431.425	430.490	430.490
22.5	481.697	460.194	443.962	432.571	425.560	421.057	416.339	416.465	416.042
25.0	464.275	443.832	425.901	415.444	409.580	405.036	401.338	401.127	401.761
27.5	446.254	426.283	408.605	399.851	394.494	389.991	386.423	387.227	387.313
30.0	427.047	407.459	391.222	383.021	378.770	373.840	371.337	366.151	372.865
32.5	407.711	388.760	373.076	366.704	361.900	358.287	356.462	356.930	358.161
35.0	388.504	368.573	354.804	349.663	345.753	342.693	342.010	342.055	342.352
37.5	367.041	349.322	338.145	332.236	328.794	326.884	325.738	326.457	327.225
40.0	346.558	329.899	318.979	315.110	311.753	310.266	310.351	310.481	311.924
42.5	325.226	310.481	300.792	297.732	295.436	294.542	295.054	294.798	295.436
45.0	304.868	290.888	282.431	279.626	279.033	277.546	278.606	280.008	267.560
47.5	283.365	270.872	263.435	261.822	260.757	260.375	261.907	263.520	264.666
50.0	261.862	250.771	245.037	243.972	243.419	243.549	244.951	246.736	247.329
52.5	241.082	231.308	226.167	225.358	225.273	225.484	227.781	230.077	230.756
55.0	220.514	211.931	207.976	206.659	207.001	208.232	211.463	212.057	212.739
57.5	200.157	192.594	189.704	188.005	189.363	190.383	193.699	194.890	195.483
60.0	176.894	168.811	167.669	168.599	168.099	169.380	173.700	168.709	178.060
62.5	160.317	154.915	153.026	153.001	153.769	156.273	158.561	159.796	159.939
65.0	140.817	136.785	135.249	135.391	137.322	139.496	140.809	142.451	142.024
67.5	122.967	118.660	116.697	117.095	120.009	121.090	123.211	123.992	122.919
70.0	104.537	101.586	100.237	100.708	102.045	103.830	105.073	105.658	107.243
72.5	88.102	85.622	83.359	84.338	85.529	86.846	87.346	88.073	88.402
75.0	71.032	68.870	67.310	68.106	69.025	69.370	63.185	69.846	71.122
77.5	55.800	53.857	52.963	52.679	52.980	53.622	53.610	53.423	53.386
80.0	40.893	39.629	39.105	38.763	38.329	37.353	37.589	37.317	37.548

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-S-835-ASY-DAO-ITL89599-KPL2008-3.012.IES****CANDELA TABULATION - (Cont.)**

82.5	28.087	26.437	25.258	24.551	24.490	23.962	23.816	23.397	22.670
85.0	16.602	14.972	13.716	12.318	11.652	10.758	9.937	9.311	8.279
87.5	5.458	4.219	3.324	2.524	1.796	1.199	0.772	0.573	0.520
90.0	1.626	3.658	5.283	7.315	8.535	9.754	10.567	10.973	10.973
92.5	15.950	16.979	19.038	20.581	22.125	22.639	23.154	23.668	23.668
95.0	33.444	34.988	37.561	40.648	42.191	42.706	42.706	41.677	40.648
97.5	50.424	52.482	56.598	61.229	64.316	65.860	66.889	65.860	65.345
100.0	67.918	70.491	75.121	80.781	84.897	88.499	91.072	90.557	90.557
102.5	85.927	90.043	95.703	101.877	107.022	110.624	113.197	113.711	113.711
105.0	103.421	109.080	117.313	126.060	131.205	133.778	135.321	134.807	134.807
107.5	121.944	127.089	135.321	145.097	151.786	155.388	157.961	156.932	155.903
110.0	139.952	143.039	152.815	164.650	172.368	175.969	179.056	179.056	179.056
112.5	157.961	158.990	169.795	183.687	192.949	198.094	201.696	201.696	201.696
115.0	175.969	174.940	185.745	201.181	212.501	219.704	224.850	225.364	225.879
117.5	193.978	189.347	200.667	217.646	230.509	239.771	246.460	247.489	248.518
120.0	212.501	204.783	215.588	232.568	246.460	257.780	267.041	268.070	269.614
122.5	230.509	219.704	229.480	246.460	261.381	274.759	285.564	287.108	289.166
125.0	249.547	235.655	243.887	259.323	274.759	290.709	303.058	305.116	307.174
127.5	268.070	250.576	256.750	270.643	286.593	304.087	317.980	321.067	324.154
130.0	286.593	265.497	269.099	280.933	296.369	314.378	329.299	334.444	339.075
132.5	306.145	280.419	281.448	291.224	304.602	322.096	336.503	343.191	349.366
135.0	325.183	295.340	293.282	300.486	312.320	328.270	341.648	348.337	354.511
137.5	344.735	310.776	305.631	309.233	318.494	332.901	345.250	350.909	356.569
140.0	364.802	327.756	318.494	319.009	325.183	337.017	347.308	352.453	357.598
142.5	385.383	346.793	333.415	328.785	331.357	340.619	348.337	352.453	356.569
145.0	406.993	366.860	349.366	339.590	337.532	344.221	349.366	352.453	355.540
147.5	428.089	387.441	365.316	349.880	344.221	347.822	351.424	353.482	355.540
150.0	448.670	406.479	381.267	361.200	351.939	353.482	354.511	355.540	356.055
152.5	469.251	427.574	398.761	374.578	361.200	359.656	358.113	358.113	358.113
155.0	489.318	448.670	418.313	391.557	375.092	368.918	363.773	362.744	361.200
157.5	508.870	468.737	439.409	413.168	394.130	382.296	373.034	370.462	368.403
160.0	528.422	491.891	463.592	438.380	417.284	400.819	387.441	383.325	379.209
162.5	546.945	514.530	487.774	463.077	442.496	426.031	412.139	405.450	399.275
165.0	564.954	537.684	512.472	488.289	468.737	454.845	443.010	436.321	430.147
167.5	580.390	557.751	535.626	514.015	496.521	483.144	472.339	467.193	462.562
170.0	593.768	575.759	558.780	541.800	527.393	514.530	504.239	499.094	494.463
172.5	605.602	592.739	580.390	568.556	557.751	548.489	540.771	537.169	533.053
175.0	615.892	607.145	599.427	591.709	585.021	579.361	574.730	572.157	570.099
177.5	623.610	618.980	615.378	611.776	609.203	606.631	604.058	603.029	601.486
180.0	628.756	628.756	628.756	628.756	628.756	628.756	628.756	628.756	628.756

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-S-835-ASY-DAO-ITL89599-KPL2008-3.012.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	212.82	N.A.	5.70
0-30	450.57	N.A.	12.10
0-40	729.36	N.A.	19.50
0-60	1237.47	N.A.	33.10
0-80	1494.78	N.A.	40.00
0-90	1522.03	N.A.	40.80
10-90	1467.18	N.A.	39.30
20-40	516.54	N.A.	13.80
20-50	791.95	N.A.	21.20
40-70	674.06	N.A.	18.00
60-80	257.32	N.A.	6.90
70-80	91.36	N.A.	2.40
80-90	27.25	N.A.	0.70
90-110	266.11	N.A.	7.10
90-120	618.33	N.A.	16.60
90-130	1022.32	N.A.	27.40
90-150	1729.29	N.A.	46.30
90-180	2212.62	N.A.	59.20
110-180	1946.5	N.A.	52.10
0-180	3734.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.86
10-20	157.96
20-30	237.75
30-40	278.80
40-50	275.41
50-60	232.70
60-70	165.96
70-80	91.36
80-90	27.25
90-100	62.00
100-110	204.12
110-120	352.22
120-130	403.99
130-140	379.83
140-150	327.14
150-160	256.43
160-170	167.71
170-180	59.18

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-S-835-ASY-DAO-ITL89599-KPL2008-3.012.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

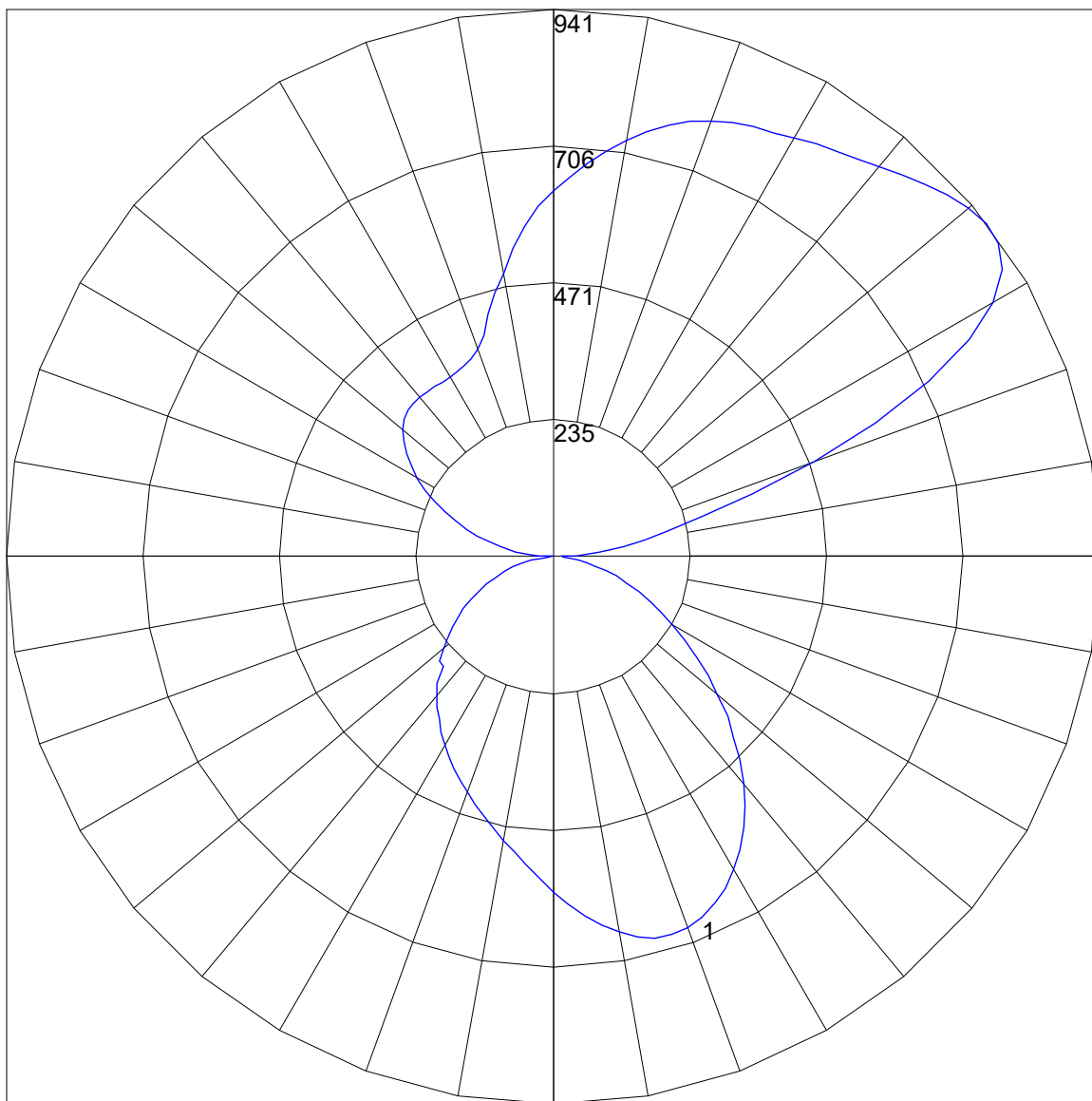
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	36	34	29
3	80	70	63	57	72	64	58	53	53	49	45	43	39	37	33	31	29	25
4	73	62	54	49	66	57	50	45	47	42	38	38	34	32	29	27	25	21
5	67	55	47	42	61	51	44	39	42	37	33	34	30	27	27	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	13	10

IES INDOOR REPORT

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POLAR GRAPH



Maximum Candela = 941.075 Located At Horizontal Angle = 0, Vertical Angle = 127.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)