

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-RG-4FT-B-B-835-ASY-TG-ITL90352 ITL89599.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352 ITL89599.002 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/04/18

[ISSUEDATE]05/30/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-RG-4ft-B-B-835-ASY-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 36.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 39.1 WATTS

[_ABSOLUTE]LUMENS]3732

[OTHER]see www.finelite.com for source files ITL90352 and ITL89599. 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

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3732
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	36.6
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)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9529	6826	5372
55	8573	5468	4190
65	7589	4186	3189
75	6455	3227	2862
85	5154	2577	2351

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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	793.642	793.642	793.642	793.642	793.642	793.642	793.642	793.642	793.642	793.642
2.5	792.604	792.604	792.085	792.085	791.566	791.566	791.047	791.047	790.528	790.528
5.0	788.970	788.451	787.932	786.894	785.856	784.818	783.261	782.223	781.185	780.665
7.5	782.742	781.704	780.665	777.551	774.437	771.322	768.727	766.132	765.094	763.536
10.0	773.918	771.322	768.208	764.056	759.384	754.193	749.003	744.850	742.774	740.698
12.5	763.017	757.827	752.636	746.408	739.141	731.874	724.607	718.378	715.264	712.150
15.0	749.003	741.736	734.469	725.645	715.783	705.921	696.059	687.754	683.601	679.449
17.5	733.431	724.088	714.745	702.287	689.311	676.854	664.915	654.015	648.824	643.634
20.0	715.264	703.326	691.906	676.854	660.763	645.710	631.176	618.719	612.490	606.261
22.5	693.463	679.968	666.472	648.824	630.138	612.490	595.361	580.828	573.561	566.813
25.0	671.144	655.053	639.481	619.238	597.957	577.713	558.508	542.417	535.150	527.883
27.5	646.748	628.581	610.933	588.094	564.218	541.898	521.655	504.007	496.221	488.435
30.0	620.795	601.071	581.347	556.951	530.479	506.083	483.763	465.077	457.810	450.025
32.5	592.247	572.004	551.760	525.288	496.740	470.268	446.391	427.186	419.919	412.652
35.0	563.699	542.417	520.617	492.587	462.482	435.491	411.095	390.852	383.066	374.761
37.5	534.631	511.793	489.473	460.406	428.743	400.714	376.318	356.075	348.289	340.503
40.0	504.526	481.168	457.291	427.705	395.523	367.494	343.617	323.374	316.107	308.321
42.5	474.420	450.544	426.667	396.042	363.342	335.312	311.955	292.750	285.483	278.216
45.0	443.796	419.400	395.004	364.380	331.679	304.169	281.849	263.682	256.934	250.187
47.5	412.652	388.776	364.899	334.274	301.574	275.102	253.820	236.172	230.462	224.753
50.0	382.028	358.151	334.274	304.169	272.506	246.553	226.829	210.738	205.548	200.357
52.5	353.480	328.565	304.169	275.102	244.477	220.600	202.433	187.900	183.228	178.556
55.0	323.893	298.978	274.063	246.553	218.005	195.166	179.076	166.099	162.466	158.313
57.5	294.826	270.430	246.034	219.562	192.052	171.290	157.275	145.856	142.741	139.108
60.0	266.278	242.401	218.524	193.609	168.175	148.970	137.032	127.170	124.055	120.941
62.5	238.248	215.410	192.052	168.694	145.337	128.727	117.827	109.522	106.407	103.812
65.0	211.257	188.938	167.137	145.337	124.055	109.002	99.659	91.874	90.316	88.759
67.5	183.747	162.985	142.741	123.536	104.331	91.874	85.126	79.935	79.416	78.897
70.0	158.313	139.108	119.384	102.255	86.164	75.783	72.149	69.554	69.035	68.516
72.5	133.917	115.750	98.102	83.569	70.592	63.325	61.249	59.692	58.654	58.135
75.0	110.041	93.431	77.340	66.440	57.616	52.425	50.868	49.311	48.792	48.792
77.5	88.759	73.706	58.135	50.349	45.158	42.044	41.006	39.968	39.449	39.449
80.0	67.997	55.020	41.525	36.334	33.739	32.182	31.144	30.625	30.625	30.625
82.5	47.753	38.410	29.067	25.953	24.396	22.839	22.320	21.800	21.800	21.800
85.0	29.586	23.877	18.167	16.091	15.053	14.534	14.015	13.496	13.496	13.496
87.5	12.457	10.381	7.786	6.748	6.229	6.229	5.710	5.710	5.710	5.710
90.0	0.000	0.000	0.000	0.000	6.229	10.381	7.267	4.672	2.076	0.000
92.5	40.487	41.006	40.487	38.410	34.777	32.701	31.144	28.548	24.915	12.457
95.0	80.973	82.011	80.973	78.378	75.783	73.187	69.554	63.325	52.425	30.625
97.5	123.017	124.055	122.498	122.498	122.498	120.941	114.193	101.217	79.935	49.830
100.0	159.351	161.947	165.061	172.847	178.556	175.961	163.504	140.665	106.926	69.554
102.5	204.509	210.219	220.600	236.691	245.515	238.248	215.410	178.556	131.841	88.759
105.0	266.278	277.178	298.459	318.183	321.817	305.207	267.316	213.333	155.199	108.483
107.5	361.784	374.242	396.561	410.057	406.943	376.318	317.145	243.958	176.999	128.727
110.0	483.763	489.992	504.007	509.716	492.587	439.643	358.670	270.430	197.762	148.970
112.5	604.185	607.819	615.085	606.781	567.851	490.511	390.852	294.307	218.005	169.213
115.0	720.974	719.935	715.264	686.716	624.948	528.922	417.324	315.588	238.767	190.495
117.5	814.923	807.137	790.528	746.408	665.953	555.394	437.567	335.312	259.530	212.295
120.0	881.882	870.982	843.472	785.337	690.868	573.561	455.215	354.518	280.811	233.577
122.5	924.964	911.468	875.653	806.618	705.921	587.056	470.787	373.723	302.093	254.858
125.0	945.207	930.674	889.668	815.442	713.707	597.957	485.840	392.928	322.855	276.140
127.5	949.360	934.307	890.706	815.962	717.340	607.300	501.411	412.133	343.617	296.902
130.0	942.093	927.040	883.958	812.328	718.897	616.124	517.502	431.857	365.418	318.703
132.5	928.597	915.621	874.615	806.618	720.455	625.467	533.074	452.101	387.218	340.503

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-B-B-835-ASY-TG-ITL90352 ITL89599.002.IES

CANDELA TABULATION - (Cont.)

135.0	913.545	900.568	862.677	800.909	722.531	635.329	548.646	471.306	409.019	362.823
137.5	898.492	886.035	851.777	796.237	725.645	645.710	565.256	491.030	430.300	385.142
140.0	882.401	872.539	842.434	792.604	728.760	656.091	581.347	510.755	451.582	406.943
142.5	869.425	861.120	834.648	790.528	732.393	666.472	597.437	529.960	473.382	428.743
145.0	858.524	851.258	827.381	787.932	736.545	677.373	613.009	548.127	493.626	450.544
147.5	848.662	841.914	821.152	785.856	740.698	687.235	627.543	565.775	513.869	471.825
150.0	837.762	832.571	814.923	784.299	744.850	696.578	640.000	581.866	533.074	493.626
152.5	828.938	824.266	809.733	783.780	747.965	703.845	651.420	596.918	551.241	513.869
155.0	821.671	817.000	804.542	781.704	749.522	709.035	660.244	609.895	567.851	533.074
157.5	814.404	809.733	798.833	778.070	747.965	711.111	666.991	621.833	583.942	551.241
160.0	804.542	799.871	789.489	771.322	744.331	711.111	671.663	631.176	597.437	567.851
162.5	791.566	787.413	778.070	761.460	737.064	708.516	674.258	639.481	609.895	582.904
165.0	774.956	770.803	761.979	747.965	727.721	703.326	674.777	645.191	620.276	596.399
167.5	755.232	751.598	744.331	732.393	715.783	696.059	673.220	648.824	628.062	607.819
170.0	732.393	729.279	723.569	714.226	702.287	687.235	669.068	650.382	634.291	616.643
172.5	709.035	706.959	702.807	696.578	687.235	675.815	663.358	649.862	637.405	623.909
175.0	684.120	682.563	679.449	675.815	670.106	663.358	655.572	646.748	638.443	630.138
177.5	658.686	658.167	657.129	655.053	652.977	649.862	645.710	641.558	637.405	633.253
180.0	634.291	634.291	634.291	634.291	634.291	634.291	634.291	634.291	634.291	634.291

Vert. Angles

Horizontal Angles

	100	110	120	130	140	150	160	170	180
0.0	793.642	793.642	793.642	793.642	793.642	793.642	793.642	793.642	793.642
2.5	790.528	791.047	791.047	791.566	791.566	792.085	792.085	792.604	792.604
5.0	781.185	782.223	783.261	784.818	785.856	786.894	787.932	788.451	788.970
7.5	765.094	766.132	768.727	771.322	774.437	777.551	780.665	781.704	782.742
10.0	742.774	744.850	749.003	754.193	759.384	764.056	768.208	771.322	773.918
12.5	715.264	718.378	724.607	731.874	739.141	746.408	752.636	757.827	763.017
15.0	683.601	687.754	696.059	705.921	715.783	725.645	734.469	741.736	749.003
17.5	648.824	654.015	664.915	676.854	689.311	702.287	714.745	724.088	733.431
20.0	612.490	618.719	631.176	645.710	660.763	676.854	691.906	703.326	715.264
22.5	573.561	580.828	595.361	612.490	630.138	648.824	666.472	679.968	693.463
25.0	535.150	542.417	558.508	577.713	597.957	619.238	639.481	655.053	671.144
27.5	496.221	504.007	521.655	541.898	564.218	588.094	610.933	628.581	646.748
30.0	457.810	465.077	483.763	506.083	530.479	556.951	581.347	601.071	620.795
32.5	419.919	427.186	446.391	470.268	496.740	525.288	551.760	572.004	592.247
35.0	383.066	390.852	411.095	435.491	462.482	492.587	520.617	542.417	563.699
37.5	348.289	356.075	376.318	400.714	428.743	460.406	489.473	511.793	534.631
40.0	316.107	323.374	343.617	367.494	395.523	427.705	457.291	481.168	504.526
42.5	285.483	292.750	311.955	335.312	363.342	396.042	426.667	450.544	474.420
45.0	256.934	263.682	281.849	304.169	331.679	364.380	395.004	419.400	443.796
47.5	230.462	236.172	253.820	275.102	301.574	334.274	364.899	388.776	412.652
50.0	205.548	210.738	226.829	246.553	272.506	304.169	334.274	358.151	382.028
52.5	183.228	187.900	202.433	220.600	244.477	275.102	304.169	328.565	353.480
55.0	162.466	166.099	179.076	195.166	218.005	246.553	274.063	298.978	323.893
57.5	142.741	145.856	157.275	171.290	192.052	219.562	246.034	270.430	294.826
60.0	124.055	127.170	137.032	148.970	168.175	193.609	218.524	242.401	266.278
62.5	106.407	109.522	117.827	128.727	145.337	168.694	192.052	215.410	238.248
65.0	90.316	91.874	99.659	109.002	124.055	145.337	167.137	188.938	211.257
67.5	79.416	79.935	85.126	91.874	104.331	123.536	142.741	162.985	183.747
70.0	69.035	69.554	72.149	75.783	86.164	102.255	119.384	139.108	158.313
72.5	58.654	59.692	61.249	63.325	70.592	83.569	98.102	115.750	133.917
75.0	48.792	49.311	50.868	52.425	57.616	66.440	77.340	93.431	110.041
77.5	39.449	39.968	41.006	42.044	45.158	50.349	58.135	73.706	88.759
80.0	30.625	30.625	31.144	32.182	33.739	36.334	41.525	55.020	67.997

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-B-B-835-ASY-TG-ITL90352 ITL89599.002.IES****CANDELA TABULATION - (Cont.)**

82.5	21.800	21.800	22.320	22.839	24.396	25.953	29.067	38.410	47.753
85.0	13.496	13.496	14.015	14.534	15.053	16.091	18.167	23.877	29.586
87.5	5.710	5.710	5.710	6.229	6.229	6.748	7.786	10.381	12.457
90.0	2.076	4.672	6.748	9.343	10.900	12.457	13.496	14.015	14.015
92.5	16.091	17.129	19.205	20.762	22.320	22.839	23.358	23.877	23.877
95.0	33.739	35.296	37.891	41.006	42.563	43.082	43.082	42.044	41.006
97.5	50.868	52.944	57.097	61.768	64.882	66.440	67.478	66.440	65.921
100.0	68.516	71.111	75.783	81.492	85.645	89.278	91.874	91.354	91.354
102.5	86.683	90.835	96.545	102.774	107.964	111.598	114.193	114.712	114.712
105.0	104.331	110.041	118.346	127.170	132.360	134.955	136.513	135.994	135.994
107.5	123.017	128.208	136.513	146.375	153.123	156.756	159.351	158.313	157.275
110.0	141.184	144.299	154.161	166.099	173.885	177.518	180.633	180.633	180.633
112.5	159.351	160.389	171.290	185.304	194.647	199.838	203.471	203.471	203.471
115.0	177.518	176.480	187.380	202.952	214.372	221.638	226.829	227.348	227.867
117.5	195.685	191.014	202.433	219.562	232.539	241.882	248.629	249.668	250.706
120.0	214.372	206.586	217.486	234.615	248.629	260.049	269.392	270.430	271.987
122.5	232.539	221.638	231.501	248.629	263.682	277.178	288.078	289.635	291.711
125.0	251.744	237.729	246.034	261.606	277.178	293.269	305.726	307.802	309.879
127.5	270.430	252.782	259.011	273.025	289.116	306.764	320.779	323.893	327.007
130.0	289.116	267.835	271.468	283.406	298.978	317.145	332.198	337.389	342.060
132.5	308.840	282.887	283.926	293.788	307.283	324.931	339.465	346.213	352.441
135.0	328.046	297.940	295.864	303.131	315.069	331.160	344.655	351.403	357.632
137.5	347.770	313.512	308.321	311.955	321.298	335.831	348.289	353.999	359.708
140.0	368.013	330.641	321.298	321.817	328.046	339.984	350.365	355.556	360.746
142.5	388.776	349.846	336.351	331.679	334.274	343.617	351.403	355.556	359.708
145.0	410.576	370.089	352.441	342.579	340.503	347.251	352.441	355.556	358.670
147.5	431.857	390.852	368.532	352.960	347.251	350.884	354.518	356.594	358.670
150.0	452.620	410.057	384.623	364.380	355.037	356.594	357.632	358.670	359.189
152.5	473.382	431.338	402.271	377.875	364.380	362.823	361.265	361.265	361.265
155.0	493.626	452.620	421.995	395.004	378.394	372.166	366.975	365.937	364.380
157.5	513.350	472.863	443.277	416.805	397.600	385.661	376.318	373.723	371.647
160.0	533.074	496.221	467.673	442.239	420.957	404.347	390.852	386.699	382.547
162.5	551.760	519.059	492.068	467.154	446.391	429.781	415.767	409.019	402.790
165.0	569.927	542.417	516.983	492.587	472.863	458.849	446.910	440.162	433.934
167.5	585.499	562.660	540.341	518.540	500.892	487.397	476.497	471.306	466.634
170.0	598.995	580.828	563.699	546.570	532.036	519.059	508.678	503.488	498.816
172.5	610.933	597.957	585.499	573.561	562.660	553.317	545.532	541.898	537.746
175.0	621.314	612.490	604.704	596.918	590.171	584.461	579.789	577.194	575.118
177.5	629.100	624.429	620.795	617.162	614.566	611.971	609.376	608.338	606.781
180.0	634.291	634.291	634.291	634.291	634.291	634.291	634.291	634.291	634.291

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-B-B-835-ASY-TG-ITL90352 ITL89599.002.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	273.74	N.A.	7.30
0-30	545.50	N.A.	14.60
0-40	830.88	N.A.	22.30
0-60	1282.88	N.A.	34.40
0-80	1480.87	N.A.	39.70
0-90	1500.62	N.A.	40.20
10-90	1426.59	N.A.	38.20
20-40	557.14	N.A.	14.90
20-50	811.68	N.A.	21.70
40-70	581.73	N.A.	15.60
60-80	197.98	N.A.	5.30
70-80	68.26	N.A.	1.80
80-90	19.75	N.A.	0.50
90-110	268.22	N.A.	7.20
90-120	623.54	N.A.	16.70
90-130	1031.09	N.A.	27.60
90-150	1744.28	N.A.	46.70
90-180	2231.86	N.A.	59.80
110-180	1963.64	N.A.	52.60
0-180	3732.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	74.03
10-20	199.71
20-30	271.77
30-40	285.38
40-50	254.54
50-60	197.47
60-70	129.72
70-80	68.26
80-90	19.75
90-100	62.31
100-110	205.91
110-120	355.32
120-130	407.55
130-140	383.18
140-150	330.02
150-160	258.69
160-170	169.18
170-180	59.70

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-B-B-835-ASY-TG-ITL90352 ITL89599.002.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

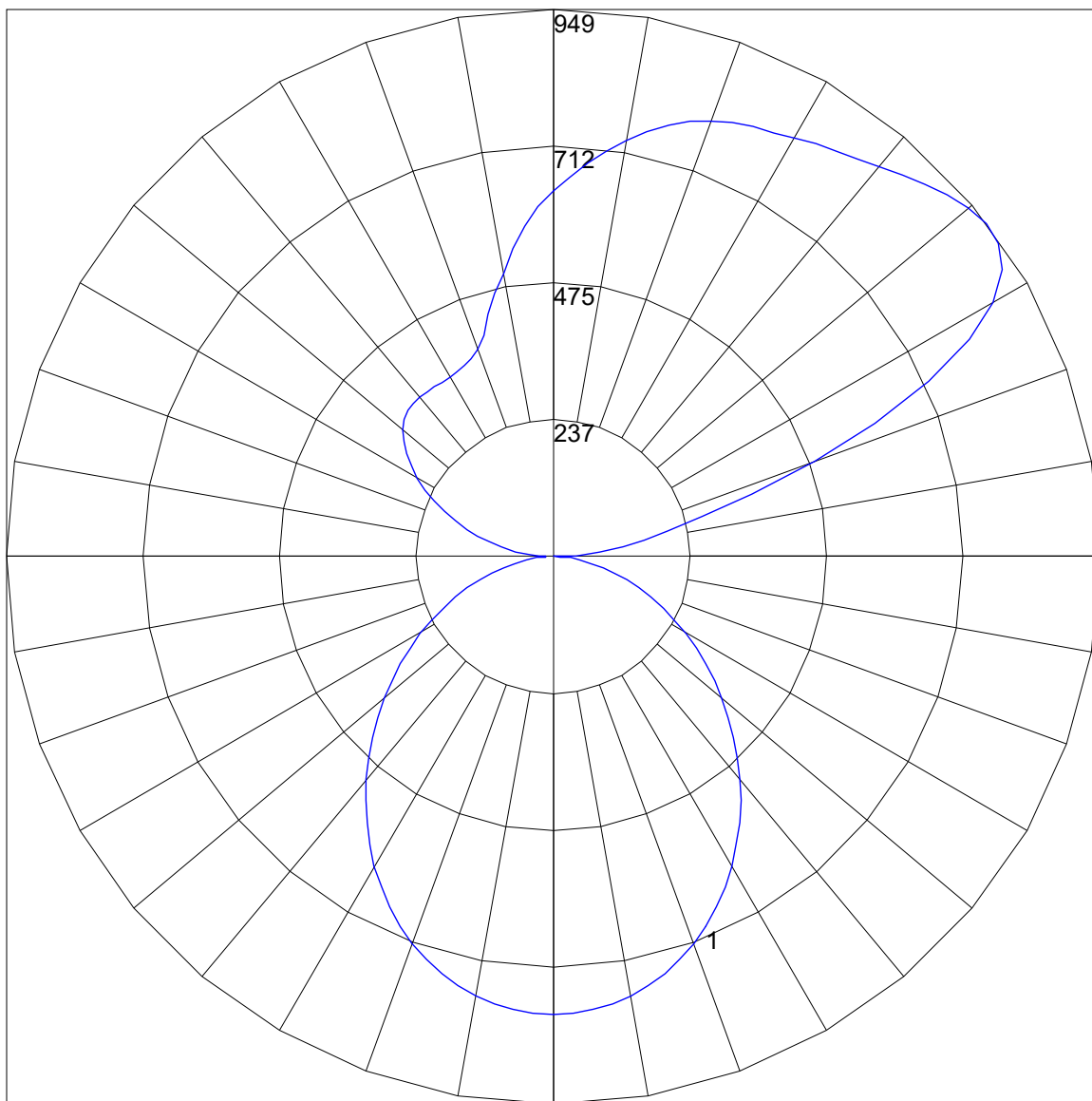
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	88	81	75	70	80	74	69	65	61	57	54	49	46	44	38	36	35	30
3	80	71	64	59	73	65	59	55	54	50	46	44	41	38	34	32	30	26
4	74	63	56	50	67	58	52	47	48	44	40	39	36	33	31	28	26	23
5	68	57	49	43	62	52	45	40	43	38	35	35	32	29	28	25	23	20
6	63	51	43	38	57	47	40	35	39	34	30	32	28	26	25	23	21	18
7	58	46	39	33	53	43	36	31	36	31	27	29	26	23	23	21	19	16
8	54	42	35	30	49	39	32	28	33	28	24	27	23	20	22	19	17	14
9	50	38	31	26	46	36	29	25	30	25	22	25	21	18	20	17	15	13
10	47	35	28	24	43	33	27	22	28	23	20	23	19	17	19	16	14	12

IES INDOOR REPORT

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POLAR GRAPH



Maximum Candela = 949.36 Located At Horizontal Angle = 0, Vertical Angle = 127.5

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