

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-H-B-835-ASY-DAO-ITL89599-KPL2008-3.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599-KPL2008-3.008 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/24/17

[ISSUEDATE]08/29/2021

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 47.7 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]5272

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5273
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	46.1
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	11958	12383	8999
55	10149	11245	8027
65	8379	9736	7097
75	6990	8274	5956
85	6975	8242	4954

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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	731.898	731.898	731.898	731.898	731.898	731.898	731.898	731.898	731.898	731.898
2.5	756.815	755.580	751.972	754.071	751.920	747.504	747.020	748.420	747.077	735.666
5.0	785.231	782.756	778.721	777.804	771.669	763.866	759.131	755.255	749.336	731.898
7.5	809.237	807.029	801.110	798.794	790.075	777.377	768.658	760.155	749.228	726.190
10.0	829.151	827.591	821.075	815.697	804.286	788.083	775.493	762.631	746.536	717.852
12.5	848.524	845.940	837.329	830.386	816.016	795.459	779.312	762.199	741.369	707.301
15.0	859.503	856.759	849.008	840.937	820.591	799.926	780.012	759.131	734.158	694.814
17.5	863.703	860.635	853.367	844.921	828.183	801.702	777.485	752.672	723.339	679.260
20.0	859.935	857.192	850.892	843.197	826.351	799.602	772.050	743.417	710.801	664.298
22.5	850.140	847.448	842.065	834.910	819.248	792.283	764.350	730.498	694.598	645.568
25.0	833.135	832.054	828.235	821.940	807.569	780.553	752.455	716.236	677.649	625.494
27.5	814.832	810.688	807.837	803.534	790.291	766.018	737.601	698.906	657.843	602.621
30.0	787.923	784.804	784.048	780.820	770.058	745.353	717.636	678.349	634.538	579.696
32.5	758.215	756.280	756.223	754.931	747.669	724.471	695.514	656.387	611.181	553.699
35.0	722.479	724.363	723.663	727.482	720.647	697.722	669.841	632.597	585.667	528.515
37.5	685.344	685.827	688.736	694.222	688.844	669.573	641.373	604.181	557.842	502.193
40.0	645.300	646.592	650.035	658.003	656.068	639.540	612.524	576.629	529.858	476.736
42.5	600.521	603.805	610.156	620.383	618.875	605.364	580.072	546.488	500.958	447.352
45.0	556.931	559.407	568.553	578.348	582.064	571.404	560.858	513.979	469.257	419.151
47.5	515.596	515.647	524.906	537.609	543.904	536.045	512.579	481.471	439.173	390.194
50.0	468.665	469.041	480.720	494.714	502.301	499.558	476.252	446.168	407.524	360.969
52.5	425.286	427.386	439.384	451.819	465.057	462.046	439.600	412.367	376.580	332.769
55.0	383.415	385.675	396.597	413.232	425.503	424.154	404.997	378.516	345.739	303.277
57.5	340.788	345.472	355.050	372.432	385.026	383.843	367.161	344.556	314.147	275.828
60.0	302.793	306.128	315.547	330.885	344.988	346.331	332.229	310.112	285.031	249.779
62.5	264.684	270.017	280.187	293.482	307.152	308.496	296.977	277.120	254.514	218.382
65.0	233.257	235.141	244.287	256.563	268.344	273.676	264.257	244.287	224.589	197.552
67.5	201.932	202.473	212.643	221.738	233.308	239.068	230.565	213.667	197.357	172.713
70.0	172.764	173.948	181.267	191.062	201.984	205.859	199.889	184.551	169.589	147.070
72.5	144.023	144.831	151.934	158.713	169.589	173.356	166.572	155.970	145.423	123.955
75.0	119.158	120.558	125.777	132.880	139.556	142.567	138.748	128.953	118.026	101.535
77.5	95.045	97.520	100.804	107.372	112.699	114.691	111.839	104.464	96.177	81.590
80.0	74.487	75.939	78.687	83.206	86.490	87.834	85.523	81.215	75.187	61.954
82.5	55.649	56.406	58.557	61.193	64.209	64.960	63.560	60.925	58.341	44.980
85.0	40.044	39.493	41.022	46.822	47.018	47.615	46.426	44.774	37.058	28.437
87.5	24.036	25.112	24.824	26.080	27.150	27.120	25.889	23.311	20.712	13.413
90.0	18.529	18.529	17.500	15.441	13.382	10.294	7.206	4.632	2.059	0.000
92.5	60.681	61.459	60.681	57.569	52.123	49.011	46.678	42.788	37.342	18.671
95.0	121.362	122.918	121.362	117.472	113.582	109.692	104.247	94.911	78.574	45.900
97.5	184.377	185.932	183.599	183.599	183.599	181.265	171.151	151.702	119.806	74.684
100.0	238.834	242.724	247.391	259.061	267.618	263.728	245.057	210.827	160.260	104.247
102.5	306.516	315.074	330.633	354.750	367.975	357.084	322.853	267.618	197.602	133.031
105.0	399.093	415.431	447.327	476.889	482.335	457.440	400.649	319.742	232.610	162.594
107.5	542.238	560.909	594.361	614.588	609.921	564.021	475.334	365.641	265.284	192.934
110.0	725.059	734.394	755.399	763.957	738.284	658.932	537.570	405.317	296.403	223.275
112.5	905.545	910.991	921.883	909.435	851.088	735.172	585.804	441.103	326.743	253.615
115.0	1080.586	1079.031	1072.029	1029.241	936.664	792.741	625.480	473.000	357.862	285.511
117.5	1221.397	1209.728	1184.833	1118.706	998.123	832.417	655.820	502.562	388.980	318.186
120.0	1321.754	1305.417	1264.185	1177.053	1035.465	859.646	682.271	531.347	420.876	350.082
122.5	1386.325	1366.098	1312.419	1208.950	1058.026	879.873	705.610	560.131	452.773	381.978
125.0	1416.665	1394.882	1333.423	1222.175	1069.695	896.210	728.171	588.916	483.891	413.875
127.5	1422.889	1400.328	1334.979	1222.953	1075.141	910.213	751.509	617.700	515.010	444.993
130.0	1411.997	1389.437	1324.866	1217.507	1077.475	923.439	775.626	647.263	547.684	477.667
132.5	1391.770	1372.321	1310.863	1208.950	1079.808	937.442	798.965	677.603	580.358	510.342

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CANDELA TABULATION - (Cont.)

135.0	1369.210	1349.761	1292.969	1200.392	1082.920	952.223	822.304	706.388	613.032	543.794
137.5	1346.649	1327.978	1276.632	1193.391	1087.588	967.782	847.198	735.950	644.929	577.246
140.0	1322.532	1307.751	1262.629	1187.945	1092.256	983.341	871.315	765.513	676.825	609.921
142.5	1303.083	1290.636	1250.960	1184.833	1097.702	998.901	895.432	794.297	709.500	642.595
145.0	1286.746	1275.854	1240.068	1180.943	1103.925	1015.238	918.771	821.526	739.840	675.269
147.5	1271.965	1261.851	1230.733	1177.831	1110.149	1030.019	940.554	847.976	770.180	707.166
150.0	1255.627	1247.848	1221.397	1175.498	1116.373	1044.022	959.225	872.093	798.965	739.840
152.5	1242.402	1235.401	1213.618	1174.720	1121.040	1054.914	976.340	894.654	826.194	770.180
155.0	1231.511	1224.509	1205.838	1171.608	1123.374	1062.693	989.565	914.103	851.088	798.965
157.5	1220.619	1213.618	1197.280	1166.162	1121.040	1065.805	999.679	931.996	875.205	826.194
160.0	1205.838	1198.836	1183.277	1156.049	1115.595	1065.805	1006.680	945.999	895.432	851.088
162.5	1186.389	1180.165	1166.162	1141.267	1104.703	1061.915	1010.570	958.447	914.103	873.649
165.0	1161.494	1155.271	1142.045	1121.040	1090.700	1054.136	1011.348	967.004	929.662	893.876
167.5	1131.932	1126.486	1115.595	1097.702	1072.807	1043.244	1009.014	972.450	941.332	910.991
170.0	1097.702	1093.034	1084.476	1070.473	1052.580	1030.019	1002.790	974.784	950.667	924.216
172.5	1062.693	1059.582	1053.358	1044.022	1030.019	1012.904	994.233	974.006	955.335	935.108
175.0	1025.351	1023.017	1018.350	1012.904	1004.346	994.233	982.563	969.338	956.891	944.443
177.5	987.231	986.453	984.897	981.786	978.674	974.006	967.782	961.559	955.335	949.111
180.0	950.667	950.667	950.667	950.667	950.667	950.667	950.667	950.667	950.667	950.667

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	731.898	731.898	731.898	731.898	731.898	731.898	731.898	731.898	731.898
2.5	735.450	726.890	717.260	710.317	707.085	704.290	699.230	699.014	701.166
5.0	726.731	714.193	700.146	690.135	685.452	680.392	673.181	674.200	672.641
7.5	715.320	698.746	681.144	669.522	663.598	657.303	649.016	650.576	649.176
10.0	701.974	681.576	662.954	649.500	642.232	634.697	628.294	628.027	628.402
12.5	686.579	663.062	643.200	629.318	621.351	613.389	605.364	605.689	606.656
15.0	670.649	645.084	624.367	609.081	600.794	591.967	577.756	584.323	584.807
17.5	651.868	624.902	604.397	588.143	578.996	570.977	564.894	563.977	565.110
20.0	632.113	604.613	583.356	568.177	558.918	551.331	546.380	545.196	545.196
22.5	610.048	582.815	562.258	547.831	538.953	533.250	527.274	527.434	526.898
25.0	587.983	562.094	539.385	526.142	518.715	512.960	508.277	508.009	508.812
27.5	565.161	539.869	517.479	506.393	499.609	493.906	489.387	490.406	490.514
30.0	540.836	516.028	495.466	485.079	479.695	473.452	470.281	463.714	472.217
32.5	516.347	492.347	472.484	464.414	458.330	453.754	451.443	452.035	453.595
35.0	492.022	466.781	449.343	442.832	437.881	434.005	433.141	433.197	433.573
37.5	464.841	442.400	428.246	420.762	416.403	413.983	412.532	413.443	414.416
40.0	438.900	417.803	403.973	399.073	394.821	392.937	393.046	393.210	395.037
42.5	411.884	393.210	380.940	377.064	374.156	373.024	373.672	373.348	374.156
45.0	386.102	368.397	357.686	354.134	353.383	351.499	352.842	354.618	338.853
47.5	358.869	343.048	333.629	331.585	330.237	329.753	331.693	333.737	335.188
50.0	331.637	317.590	310.328	308.980	308.280	308.444	310.220	312.480	313.231
52.5	305.320	292.941	286.431	285.406	285.298	285.566	288.474	291.382	292.242
55.0	279.271	268.401	263.393	261.725	262.157	263.717	267.809	268.560	269.425
57.5	253.490	243.911	240.252	238.100	239.819	241.111	245.311	246.819	247.571
60.0	224.028	213.791	212.345	213.523	212.890	214.512	219.983	213.662	225.506
62.5	203.034	196.193	193.800	193.769	194.742	197.912	200.810	202.375	202.555
65.0	178.338	173.233	171.287	171.467	173.912	176.666	178.328	180.408	179.867
67.5	155.733	150.277	147.791	148.295	151.986	153.355	156.042	157.030	155.671
70.0	132.391	128.654	126.946	127.543	129.236	131.496	133.071	133.812	135.819
72.5	111.577	108.437	105.570	106.811	108.319	109.986	110.619	111.541	111.958
75.0	89.959	87.221	85.245	86.253	87.417	87.854	80.020	88.456	90.073
77.5	70.668	68.208	67.076	66.715	67.096	67.910	67.894	67.657	67.611
80.0	51.789	50.188	49.524	49.092	48.541	47.306	47.605	47.260	47.553

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-ASY-DAO-ITL89599-KPL2008-3.008.IES****CANDELA TABULATION - (Cont.)**

82.5	35.571	33.481	31.989	31.093	31.016	30.347	30.161	29.631	28.710
85.0	21.025	18.962	17.371	15.601	14.756	13.624	12.584	11.792	10.484
87.5	6.912	5.343	4.210	3.196	2.275	1.518	0.978	0.726	0.659
90.0	2.059	4.632	6.691	9.265	10.809	12.353	13.382	13.897	13.897
92.5	24.117	25.673	28.785	31.118	33.452	34.230	35.008	35.786	35.786
95.0	50.567	52.901	56.791	61.459	63.793	64.571	64.571	63.015	61.459
97.5	76.240	79.352	85.576	92.577	97.245	99.579	101.135	99.579	98.801
100.0	102.691	106.581	113.582	122.140	128.363	133.809	137.699	136.921	136.921
102.5	129.919	136.143	144.701	154.036	161.816	167.261	171.151	171.929	171.929
105.0	156.370	164.928	177.375	190.600	198.380	202.270	204.603	203.826	203.826
107.5	184.377	192.156	204.603	219.385	229.498	234.944	238.834	237.278	235.722
110.0	211.605	216.273	231.054	248.947	260.617	266.062	270.730	270.730	270.730
112.5	238.834	240.390	256.727	277.732	291.735	299.515	304.960	304.960	304.960
115.0	266.062	264.506	280.844	304.182	321.297	332.189	339.969	340.746	341.524
117.5	293.291	286.289	303.404	329.077	348.526	362.529	372.643	374.199	375.755
120.0	321.297	309.628	325.965	351.638	372.643	389.758	403.761	405.317	407.651
122.5	348.526	332.189	346.970	372.643	395.204	415.431	431.768	434.102	437.214
125.0	377.311	356.306	368.753	392.092	415.431	439.547	458.218	461.330	464.442
127.5	405.317	378.867	388.202	409.207	433.324	459.774	480.779	485.447	490.115
130.0	433.324	401.427	406.873	424.766	448.105	475.334	497.894	505.674	512.676
132.5	462.886	423.988	425.544	440.325	460.552	487.003	508.786	518.899	528.235
135.0	491.671	446.549	443.437	454.329	472.222	496.338	516.565	526.679	536.014
137.5	521.233	469.888	462.108	467.554	481.557	503.340	522.011	530.569	539.126
140.0	551.574	495.561	481.557	482.335	491.671	509.564	525.123	532.903	540.682
142.5	582.692	524.345	504.118	497.116	501.006	515.010	526.679	532.903	539.126
145.0	615.366	554.685	528.235	513.454	510.342	520.455	528.235	532.903	537.570
147.5	647.263	585.804	552.352	529.013	520.455	525.901	531.347	534.458	537.570
150.0	678.381	614.588	576.468	546.128	532.125	534.458	536.014	537.570	538.348
152.5	709.500	646.485	602.919	566.355	546.128	543.794	541.460	541.460	541.460
155.0	739.840	678.381	632.482	592.028	567.133	557.797	550.018	548.462	546.128
157.5	769.402	708.722	664.378	624.702	595.917	578.024	564.021	560.131	557.019
160.0	798.965	743.730	700.942	662.822	630.926	606.031	585.804	579.580	573.357
162.5	826.971	777.960	737.506	700.164	669.046	644.151	623.146	613.032	603.697
165.0	854.200	812.968	774.848	738.284	708.722	687.717	669.824	659.710	650.375
167.5	877.539	843.309	809.856	777.182	750.731	730.504	714.167	706.388	699.386
170.0	897.766	870.537	844.865	819.192	797.409	777.960	762.401	754.621	747.620
172.5	915.659	896.210	877.539	859.646	843.309	829.305	817.636	812.190	805.967
175.0	931.218	917.993	906.323	894.654	884.541	875.983	868.981	865.091	861.980
177.5	942.888	935.886	930.440	924.994	921.105	917.215	913.325	911.769	909.435
180.0	950.667	950.667	950.667	950.667	950.667	950.667	950.667	950.667	950.667

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-ASY-DAO-ITL89599-KPL2008-3.008.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	269.52	N.A.	5.10
0-30	570.62	N.A.	10.80
0-40	923.70	N.A.	17.50
0-60	1567.2	N.A.	29.70
0-80	1893.08	N.A.	35.90
0-90	1927.59	N.A.	36.60
10-90	1858.11	N.A.	35.20
20-40	654.18	N.A.	12.40
20-50	1002.97	N.A.	19.00
40-70	853.67	N.A.	16.20
60-80	325.88	N.A.	6.20
70-80	115.70	N.A.	2.20
80-90	34.51	N.A.	0.70
90-110	402.10	N.A.	7.60
90-120	934.65	N.A.	17.70
90-130	1545.47	N.A.	29.30
90-150	2614.4	N.A.	49.60
90-180	3345.17	N.A.	63.40
110-180	2943.08	N.A.	55.80
0-180	5272.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.48
10-20	200.05
20-30	301.10
30-40	353.08
40-50	348.79
50-60	294.70
60-70	210.18
70-80	115.70
80-90	34.51
90-100	93.47
100-110	308.62
110-120	532.55
120-130	610.82
130-140	574.30
140-150	494.63
150-160	387.72
160-170	253.57
170-180	89.48

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-ASY-DAO-ITL89599-KPL2008-3.008.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

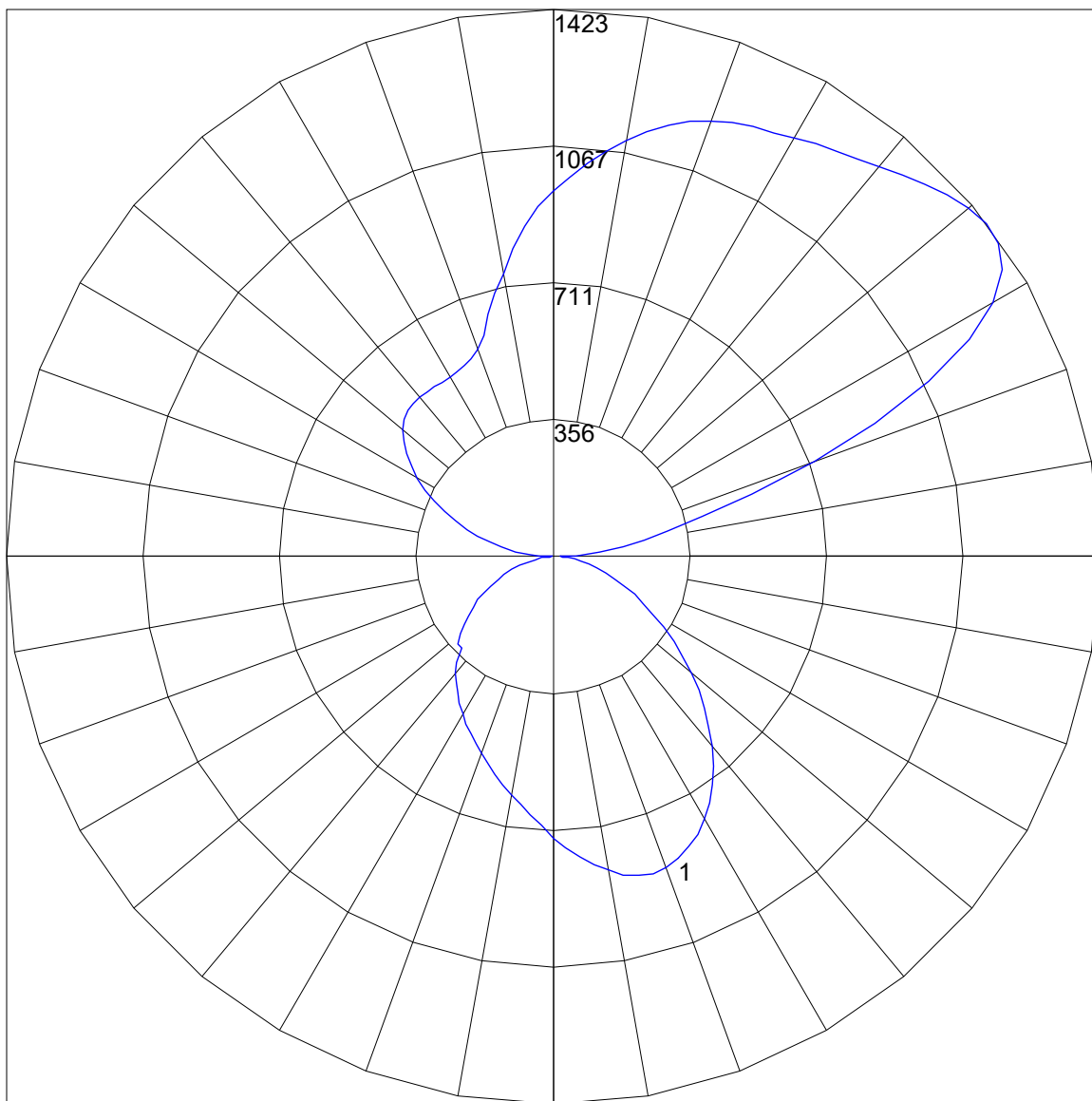
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	83	86	82	79	76	66	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	33	31	26
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	32	28	29	25	23	22	20	18	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	24	20	18	19	16	14	11
9	48	36	29	24	44	33	27	23	28	23	19	22	19	16	17	15	13	10
10	45	33	26	22	41	31	24	20	25	21	17	20	17	14	16	13	11	9

IES INDOOR REPORT

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POLAR GRAPH



Maximum Candela = 1422.889 Located At Horizontal Angle = 0, Vertical Angle = 127.5

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