

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-F-DAO-ITL85132-KPL2008-3.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-3.008 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]08/29/2021

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 46.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 47.6 WATTS

[OTHER]see www.finelite.com for source files ITL85132 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]4892

[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4891
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	46
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)	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	11958	12439	8999
55	10149	11294	8027
65	8379	9837	7097
75	6990	8309	5956
85	6975	8279	4954

IES INDOOR REPORT

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</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	752.805	749.120	748.070	735.666	724.281	708.325	700.522	701.166	700.522
5.0	785.231	778.669	767.474	756.120	731.898	710.482	686.960	675.122	672.641	675.122
7.5	809.237	800.683	783.512	762.199	726.190	693.527	665.806	646.299	649.176	646.299
10.0	829.151	820.082	795.515	765.781	717.852	676.275	645.249	629.612	628.402	629.612
12.5	848.524	836.310	804.929	766.399	707.301	657.359	625.170	607.387	606.656	607.387
15.0	859.503	847.639	811.929	764.216	694.814	639.463	604.345	582.496	584.807	582.496
17.5	863.703	851.808	815.213	758.699	679.260	618.875	584.056	565.944	565.110	565.944
20.0	859.935	849.548	813.272	750.469	664.298	598.776	563.766	547.270	545.196	547.270
22.5	850.140	840.937	808.969	738.682	645.568	577.113	543.745	528.190	526.898	528.190
25.0	833.135	826.999	794.975	725.470	625.494	555.608	522.374	509.033	508.812	509.033
27.5	814.832	807.219	780.388	708.783	602.621	533.492	502.409	490.169	490.514	490.169
30.0	787.923	783.404	759.507	688.952	579.696	510.294	482.279	470.580	472.217	470.580
32.5	758.215	756.388	737.493	667.046	553.699	487.019	461.882	451.603	453.595	451.603
35.0	722.479	724.878	711.068	642.881	528.515	462.664	440.408	432.446	433.573	432.446
37.5	685.344	689.487	681.684	614.356	502.193	437.989	418.611	412.640	414.416	412.640
40.0	645.300	652.408	650.627	586.099	476.736	413.850	397.137	392.670	395.037	392.670
42.5	600.521	612.421	615.056	555.181	447.352	389.633	375.499	373.245	374.156	373.245
45.0	556.931	571.271	579.372	523.156	419.151	364.495	352.899	351.957	338.853	351.957
47.5	515.596	527.866	544.764	490.087	390.194	340.170	330.077	330.993	335.188	330.993
50.0	468.665	484.544	504.133	454.079	360.969	314.929	308.280	309.762	313.231	309.762
52.5	425.286	442.158	465.541	419.501	332.769	290.950	285.031	287.614	292.242	287.614
55.0	383.415	400.097	426.686	384.975	303.277	266.465	261.890	266.517	269.425	266.517
57.5	340.788	358.576	385.407	350.531	275.828	242.110	238.584	243.726	247.571	243.726
60.0	302.793	320.071	347.299	315.496	249.779	213.117	212.041	220.045	225.506	220.045
62.5	264.684	282.689	308.980	282.287	218.382	195.396	194.526	200.630	202.555	200.630
65.0	233.257	247.221	273.836	249.645	197.552	172.275	172.286	178.261	179.867	178.261
67.5	201.932	214.934	238.744	218.295	172.713	150.076	149.726	155.213	155.671	155.213
70.0	172.764	183.717	205.376	188.643	147.070	128.119	128.284	132.700	135.819	132.700
72.5	144.023	153.952	171.472	158.878	123.955	107.315	107.454	110.341	111.958	110.341
75.0	119.158	127.043	141.656	132.021	101.535	87.041	86.820	84.246	90.073	84.246
77.5	95.045	102.230	113.399	106.697	81.590	67.858	66.860	67.889	67.611	67.889
80.0	74.487	79.789	87.782	82.563	61.954	49.844	47.908	47.388	47.553	47.388
82.5	55.649	59.016	64.909	61.357	44.980	33.039	31.361	26.800	28.710	26.800
85.0	40.044	41.392	47.527	45.242	28.437	18.503	15.390	12.569	10.484	12.569
87.5	24.036	25.261	26.687	23.589	13.413	5.049	2.702	0.968	0.659	0.968
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	23.334	23.334	23.334	25.668	25.668	25.668	23.334	23.334	23.334	23.334
95.0	55.225	52.891	52.891	53.669	54.447	53.669	52.891	52.891	55.225	52.891
97.5	87.115	84.781	83.226	84.003	84.003	84.003	83.226	84.781	87.115	84.781
100.0	119.783	115.894	115.894	115.894	115.116	115.894	115.894	115.894	119.783	115.894
102.5	154.006	150.895	149.340	148.562	148.562	148.562	149.340	150.895	154.006	150.895
105.0	189.786	187.452	183.563	182.785	182.008	182.785	183.563	187.452	189.786	187.452
107.5	226.343	224.009	219.342	218.565	217.787	218.565	219.342	224.009	226.343	224.009
110.0	264.455	262.122	258.233	256.677	254.344	256.677	258.233	262.122	264.455	262.122
112.5	304.124	300.235	297.901	294.012	291.679	294.012	297.901	300.235	304.124	300.235
115.0	343.792	341.459	339.903	332.125	330.569	332.125	339.903	341.459	343.792	341.459
117.5	385.794	381.905	381.905	372.571	371.015	372.571	381.905	381.905	385.794	381.905
120.0	428.573	422.351	423.906	414.573	411.461	414.573	423.906	422.351	428.573	422.351
122.5	469.019	462.797	465.908	458.130	452.685	458.130	465.908	462.797	469.019	462.797
125.0	514.132	504.799	507.910	500.132	496.243	500.132	507.910	504.799	514.132	504.799
127.5	558.468	548.356	549.912	543.689	542.134	543.689	549.912	548.356	558.468	548.356
130.0	602.025	591.913	593.469	585.691	586.469	585.691	593.469	591.913	602.025	591.913
132.5	645.582	634.693	637.026	629.248	629.248	629.248	637.026	634.693	645.582	634.693

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CANDELA TABULATION - (Cont.)

135.0	687.584	677.473	680.584	673.583	673.583	673.583	680.584	677.473	687.584	677.473
137.5	730.364	720.252	723.363	717.141	716.363	717.141	723.363	720.252	730.364	720.252
140.0	773.143	763.032	765.365	761.476	759.143	761.476	765.365	763.032	773.143	763.032
142.5	813.589	802.700	805.811	801.922	798.811	801.922	805.811	802.700	813.589	802.700
145.0	854.813	843.146	846.257	843.146	837.701	843.146	846.257	843.146	854.813	843.146
147.5	892.926	881.259	885.148	880.481	875.036	880.481	885.148	881.259	892.926	881.259
150.0	929.483	917.816	922.483	917.038	912.371	917.038	922.483	917.816	929.483	917.816
152.5	964.484	952.817	957.484	952.817	948.150	952.817	957.484	952.817	964.484	952.817
155.0	997.930	986.263	991.708	987.041	982.374	987.041	991.708	986.263	997.930	986.263
157.5	1026.709	1015.820	1022.042	1017.375	1012.709	1017.375	1022.042	1015.820	1026.709	1015.820
160.0	1054.710	1044.599	1050.043	1045.377	1040.710	1045.377	1050.043	1044.599	1054.710	1044.599
162.5	1078.823	1070.267	1074.156	1071.044	1067.933	1071.044	1074.156	1070.267	1078.823	1070.267
165.0	1100.601	1092.823	1095.156	1093.601	1091.267	1093.601	1095.156	1092.823	1100.601	1092.823
167.5	1116.935	1112.268	1113.824	1112.268	1111.490	1112.268	1113.824	1112.268	1116.935	1112.268
170.0	1131.714	1129.380	1130.158	1128.602	1127.824	1128.602	1130.158	1129.380	1131.714	1129.380
172.5	1144.159	1143.381	1143.381	1142.603	1142.603	1142.603	1143.381	1143.381	1144.159	1143.381
175.0	1152.714	1152.714	1152.714	1152.714	1151.937	1152.714	1152.714	1152.714	1152.714	1152.714
177.5	1157.381	1158.159	1158.159	1158.159	1157.381	1158.159	1158.159	1158.159	1157.381	1158.159
180.0	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493

Vert. Angles

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	731.898	731.898	731.898	731.898	731.898	731.898	731.898
2.5	708.325	724.281	735.666	748.070	749.120	752.805	756.815
5.0	686.960	710.482	731.898	756.120	767.474	778.669	785.231
7.5	665.806	693.527	726.190	762.199	783.512	800.683	809.237
10.0	645.249	676.275	717.852	765.781	795.515	820.082	829.151
12.5	625.170	657.359	707.301	766.399	804.929	836.310	848.524
15.0	604.345	639.463	694.814	764.216	811.929	847.639	859.503
17.5	584.056	618.875	679.260	758.699	815.213	851.808	863.703
20.0	563.766	598.776	664.298	750.469	813.272	849.548	859.935
22.5	543.745	577.113	645.568	738.682	808.969	840.937	850.140
25.0	522.374	555.608	625.494	725.470	794.975	826.999	833.135
27.5	502.409	533.492	602.621	708.783	780.388	807.219	814.832
30.0	482.279	510.294	579.696	688.952	759.507	783.404	787.923
32.5	461.882	487.019	553.699	667.046	737.493	756.388	758.215
35.0	440.408	462.664	528.515	642.881	711.068	724.878	722.479
37.5	418.611	437.989	502.193	614.356	681.684	689.487	685.344
40.0	397.137	413.850	476.736	586.099	650.627	652.408	645.300
42.5	375.499	389.633	447.352	555.181	615.056	612.421	600.521
45.0	352.899	364.495	419.151	523.156	579.372	571.271	556.931
47.5	330.077	340.170	390.194	490.087	544.764	527.866	515.596
50.0	308.280	314.929	360.969	454.079	504.133	484.544	468.665
52.5	285.031	290.950	332.769	419.501	465.541	442.158	425.286
55.0	261.890	266.465	303.277	384.975	426.686	400.097	383.415
57.5	238.584	242.110	275.828	350.531	385.407	358.576	340.788
60.0	212.041	213.117	249.779	315.496	347.299	320.071	302.793
62.5	194.526	195.396	218.382	282.287	308.980	282.689	264.684
65.0	172.286	172.275	197.552	249.645	273.836	247.221	233.257
67.5	149.726	150.076	172.713	218.295	238.744	214.934	201.932
70.0	128.284	128.119	147.070	188.643	205.376	183.717	172.764
72.5	107.454	107.315	123.955	158.878	171.472	153.952	144.023
75.0	86.820	87.041	101.535	132.021	141.656	127.043	119.158
77.5	66.860	67.858	81.590	106.697	113.399	102.230	95.045
80.0	47.908	49.844	61.954	82.563	87.782	79.789	74.487

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-F-DAO-ITL85132-KPL2008-3.008.IES****CANDELA TABULATION - (Cont.)**

82.5	31.361	33.039	44.980	61.357	64.909	59.016	55.649
85.0	15.390	18.503	28.437	45.242	47.527	41.392	40.044
87.5	2.702	5.049	13.413	23.589	26.687	25.261	24.036
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	23.334	25.668	25.668	25.668	23.334	23.334	23.334
95.0	52.891	53.669	54.447	53.669	52.891	52.891	55.225
97.5	83.226	84.003	84.003	84.003	83.226	84.781	87.115
100.0	115.894	115.894	115.116	115.894	115.894	115.894	119.783
102.5	149.340	148.562	148.562	148.562	149.340	150.895	154.006
105.0	183.563	182.785	182.008	182.785	183.563	187.452	189.786
107.5	219.342	218.565	217.787	218.565	219.342	224.009	226.343
110.0	258.233	256.677	254.344	256.677	258.233	262.122	264.455
112.5	297.901	294.012	291.679	294.012	297.901	300.235	304.124
115.0	339.903	332.125	330.569	332.125	339.903	341.459	343.792
117.5	381.905	372.571	371.015	372.571	381.905	381.905	385.794
120.0	423.906	414.573	411.461	414.573	423.906	422.351	428.573
122.5	465.908	458.130	452.685	458.130	465.908	462.797	469.019
125.0	507.910	500.132	496.243	500.132	507.910	504.799	514.132
127.5	549.912	543.689	542.134	543.689	549.912	548.356	558.468
130.0	593.469	585.691	586.469	585.691	593.469	591.913	602.025
132.5	637.026	629.248	629.248	629.248	637.026	634.693	645.582
135.0	680.584	673.583	673.583	673.583	680.584	677.473	687.584
137.5	723.363	717.141	716.363	717.141	723.363	720.252	730.364
140.0	765.365	761.476	759.143	761.476	765.365	763.032	773.143
142.5	805.811	801.922	798.811	801.922	805.811	802.700	813.589
145.0	846.257	843.146	837.701	843.146	846.257	843.146	854.813
147.5	885.148	880.481	875.036	880.481	885.148	881.259	892.926
150.0	922.483	917.038	912.371	917.038	922.483	917.816	929.483
152.5	957.484	952.817	948.150	952.817	957.484	952.817	964.484
155.0	991.708	987.041	982.374	987.041	991.708	986.263	997.930
157.5	1022.042	1017.375	1012.709	1017.375	1022.042	1015.820	1026.709
160.0	1050.043	1045.377	1040.710	1045.377	1050.043	1044.599	1054.710
162.5	1074.156	1071.044	1067.933	1071.044	1074.156	1070.267	1078.823
165.0	1095.156	1093.601	1091.267	1093.601	1095.156	1092.823	1100.601
167.5	1113.824	1112.268	1111.490	1112.268	1113.824	1112.268	1116.935
170.0	1130.158	1128.602	1127.824	1128.602	1130.158	1129.380	1131.714
172.5	1143.381	1142.603	1142.603	1142.603	1143.381	1143.381	1144.159
175.0	1152.714	1152.714	1151.937	1152.714	1152.714	1152.714	1152.714
177.5	1158.159	1158.159	1157.381	1158.159	1158.159	1158.159	1157.381
180.0	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493	1160.493

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-F-DAO-ITL85132-KPL2008-3.008.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	269.26	N.A.	5.50
0-30	570.25	N.A.	11.70
0-40	923.26	N.A.	18.90
0-60	1566.32	N.A.	32.00
0-80	1892.08	N.A.	38.70
0-90	1924.97	N.A.	39.40
10-90	1855.59	N.A.	37.90
20-40	654.01	N.A.	13.40
20-50	1002.55	N.A.	20.50
40-70	853.23	N.A.	17.40
60-80	325.76	N.A.	6.70
70-80	115.59	N.A.	2.40
80-90	32.89	N.A.	0.70
90-110	256.06	N.A.	5.20
90-120	590.93	N.A.	12.10
90-130	1042.58	N.A.	21.30
90-150	2093.58	N.A.	42.80
90-180	2966.07	N.A.	60.60
110-180	2710.01	N.A.	55.40
0-180	4891.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.38
10-20	199.88
20-30	301.00
30-40	353.01
40-50	348.55
50-60	294.51
60-70	210.17
70-80	115.59
80-90	32.89
90-100	59.94
100-110	196.12
110-120	334.86
120-130	451.65
130-140	523.12
140-150	527.87
150-160	454.85
160-170	308.35
170-180	109.29

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-F-DAO-ITL85132-KPL2008-3.008.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

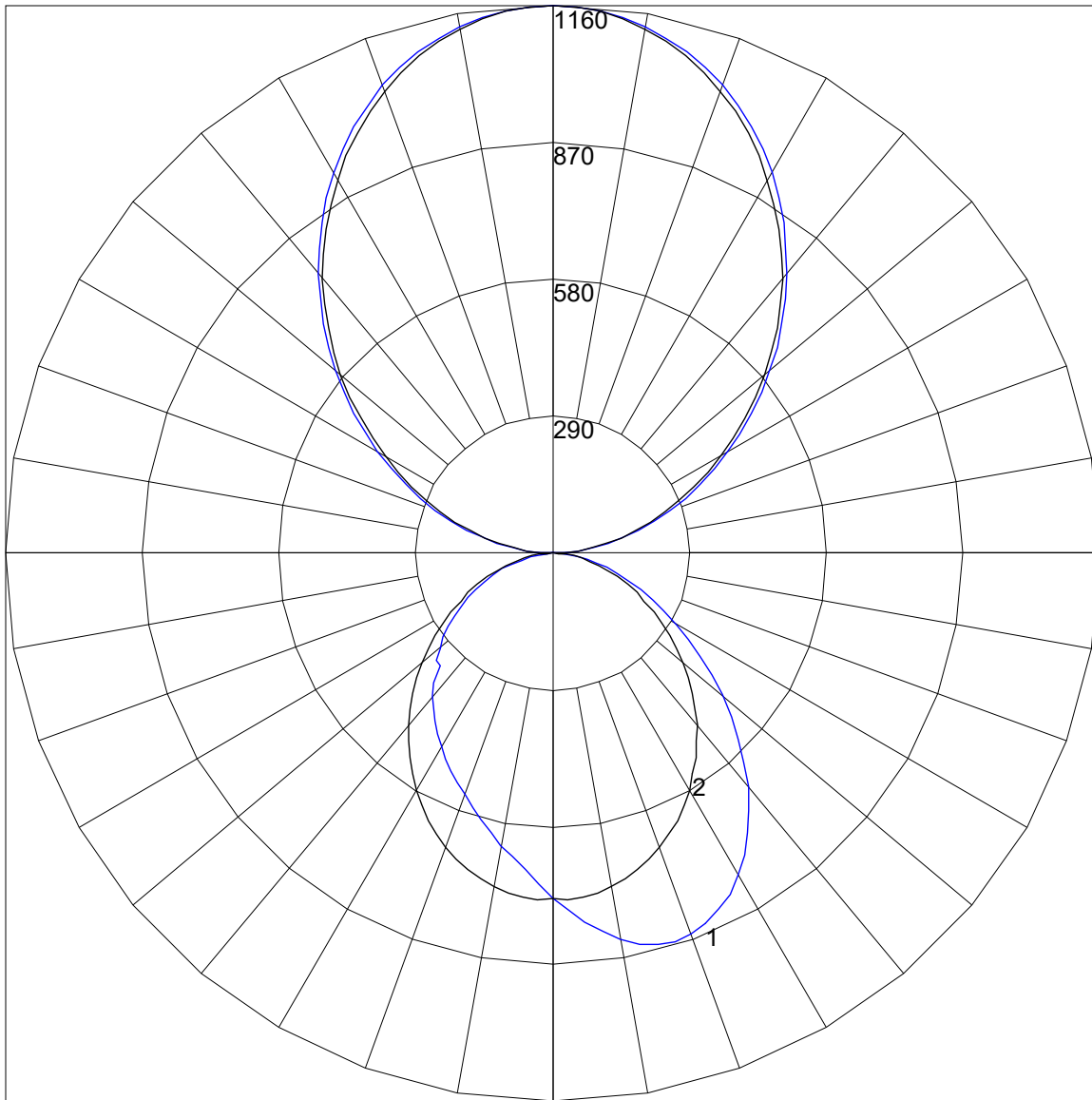
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	23	21	18
6	61	49	42	36	56	45	38	33	38	32	28	30	26	23	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	29	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-F-DAO-ITL85132-KPL2008-3.008.IES

POLAR GRAPH



Maximum Candela = 1160.493 Located At Horizontal Angle = 0, Vertical Angle = 180

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

2 - Vertical Plane Through Horizontal Angles (90 - 270)