

# 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-H-835-OPEN-DL-ITL90630 ITL85134.003.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]08/21/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-H-H-835-OPEN-DL

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 56.6 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 58.1 WATTS

[\_ABSOLUTE]LUMENS]5746

[OTHER]see [www.finelite.com](http://www.finelite.com) for source files ITL90630 and ITL85134. 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](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5746
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	56.6
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 w/Sides
Luminous Length (0-180)	3.99 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.08 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9892	8594	8287
55	9181	7819	7569
65	8307	6968	6828
75	6945	6010	6050
85	4855	5139	5386

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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>
0.0	753.907	753.907	753.907	753.907	753.907
2.5	753.907	753.129	753.907	754.685	754.685
5.0	750.016	750.795	752.351	754.685	755.463
7.5	744.570	746.126	750.795	754.685	755.463
10.0	737.568	739.124	747.683	753.129	753.907
12.5	728.232	730.566	742.236	748.461	750.795
15.0	716.562	719.674	734.456	743.014	744.570
17.5	701.779	707.225	724.342	734.456	736.790
20.0	686.218	693.221	712.671	723.564	725.120
22.5	669.102	676.882	699.445	711.115	713.449
25.0	648.095	659.766	684.662	696.333	700.223
27.5	628.645	641.093	668.324	681.550	684.662
30.0	606.860	621.642	650.429	665.212	668.324
32.5	584.297	601.414	632.535	647.317	651.985
35.0	558.622	579.629	613.084	628.645	633.313
37.5	534.504	557.844	592.077	609.972	615.418
40.0	509.607	534.504	571.849	590.521	595.967
42.5	483.154	511.163	549.286	569.515	575.739
45.0	455.923	487.822	526.723	548.508	555.510
47.5	428.692	462.925	504.161	526.723	533.726
50.0	402.239	437.250	480.820	504.938	512.719
52.5	373.452	412.353	456.701	483.154	491.712
55.0	346.221	386.679	432.582	459.813	469.149
57.5	318.990	361.004	408.463	436.472	445.809
60.0	290.981	333.773	383.567	413.132	423.246
62.5	262.195	307.320	358.670	389.791	399.905
65.0	234.186	281.645	332.217	364.116	375.786
67.5	206.955	255.192	307.320	340.775	353.224
70.0	178.946	227.962	281.645	316.656	327.549
72.5	150.937	201.509	256.748	291.760	304.208
75.0	123.706	175.834	231.852	267.641	280.867
77.5	98.031	151.715	206.955	244.300	258.305
80.0	74.690	127.596	185.170	222.515	234.964
82.5	52.128	105.811	164.163	201.509	214.735
85.0	33.455	87.139	145.491	182.836	196.062
87.5	19.451	71.578	129.152	166.498	178.946
90.0	8.558	60.686	116.704	154.049	165.719
92.5	32.672	84.014	139.246	173.474	186.698
95.0	63.788	113.575	166.472	199.923	210.813
97.5	96.461	143.135	193.699	226.371	237.262
100.0	128.355	171.918	221.704	252.820	263.711
102.5	162.583	203.812	252.042	280.825	291.716
105.0	197.589	236.484	282.381	309.608	320.498
107.5	233.373	270.712	314.275	339.946	350.837
110.0	270.712	305.718	347.725	371.062	380.397
112.5	307.274	342.280	381.953	403.735	412.292
115.0	346.947	378.064	418.515	437.963	445.742
117.5	387.399	416.181	455.077	472.190	478.414
120.0	427.850	453.521	492.416	507.974	513.420
122.5	468.301	491.638	528.978	545.314	549.981
125.0	510.308	530.534	565.540	581.876	588.877
127.5	551.537	570.207	603.657	618.437	626.216
130.0	593.544	607.547	642.553	655.777	662.778
132.5	636.329	647.220	680.670	693.117	697.784

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-OPEN-DL-ITL90630 ITL85134.003.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	677.558	686.115	718.010	730.456	735.124
<b>137.5</b>	718.788	725.789	754.571	767.018	771.685
<b>140.0</b>	760.017	763.128	789.577	802.802	807.469
<b>142.5</b>	799.690	800.468	823.805	838.586	841.697
<b>145.0</b>	837.030	837.030	858.811	872.036	873.591
<b>147.5</b>	874.369	871.258	892.261	902.374	904.708
<b>150.0</b>	909.375	904.708	924.155	934.268	934.268
<b>152.5</b>	941.269	935.824	953.716	963.051	963.051
<b>155.0</b>	972.386	966.163	982.499	990.278	990.278
<b>157.5</b>	1001.168	993.389	1008.947	1013.615	1015.171
<b>160.0</b>	1026.062	1019.060	1032.285	1036.174	1037.730
<b>162.5</b>	1049.399	1042.398	1054.066	1055.622	1057.956
<b>165.0</b>	1069.624	1064.179	1071.958	1073.514	1075.848
<b>167.5</b>	1086.738	1082.849	1087.516	1089.072	1090.628
<b>170.0</b>	1100.741	1099.185	1099.963	1101.519	1102.296
<b>172.5</b>	1112.409	1111.631	1110.853	1112.409	1112.409
<b>175.0</b>	1119.410	1119.410	1119.410	1119.410	1119.410
<b>177.5</b>	1124.856	1124.856	1124.856	1124.078	1124.856
<b>180.0</b>	1126.412	1126.412	1126.412	1126.412	1126.412

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-H-835-OPEN-DL-ITL90630 ITL85134.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	278.12	N.A.	4.80
0-30	591.00	N.A.	10.30
0-40	969.43	N.A.	16.90
0-60	1745.97	N.A.	30.40
0-80	2296.44	N.A.	40.00
0-90	2443.37	N.A.	42.50
10-90	2371.71	N.A.	41.30
20-40	691.32	N.A.	12.00
20-50	1090.55	N.A.	19.00
40-70	1094.57	N.A.	19.00
60-80	550.47	N.A.	9.60
70-80	232.44	N.A.	4.00
80-90	146.92	N.A.	2.60
90-110	457.36	N.A.	8.00
90-120	861.71	N.A.	15.00
90-130	1360.18	N.A.	23.70
90-150	2443.57	N.A.	42.50
90-180	3303.02	N.A.	57.50
110-180	2845.66	N.A.	49.50
0-180	5746.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	71.65
10-20	206.46
20-30	312.89
30-40	378.43
40-50	399.23
50-60	377.31
60-70	318.03
70-80	232.44
80-90	146.92
90-100	169.26
100-110	288.10
110-120	404.35
120-130	498.47
130-140	548.17
140-150	535.22
150-160	451.30
160-170	301.88
170-180	106.27

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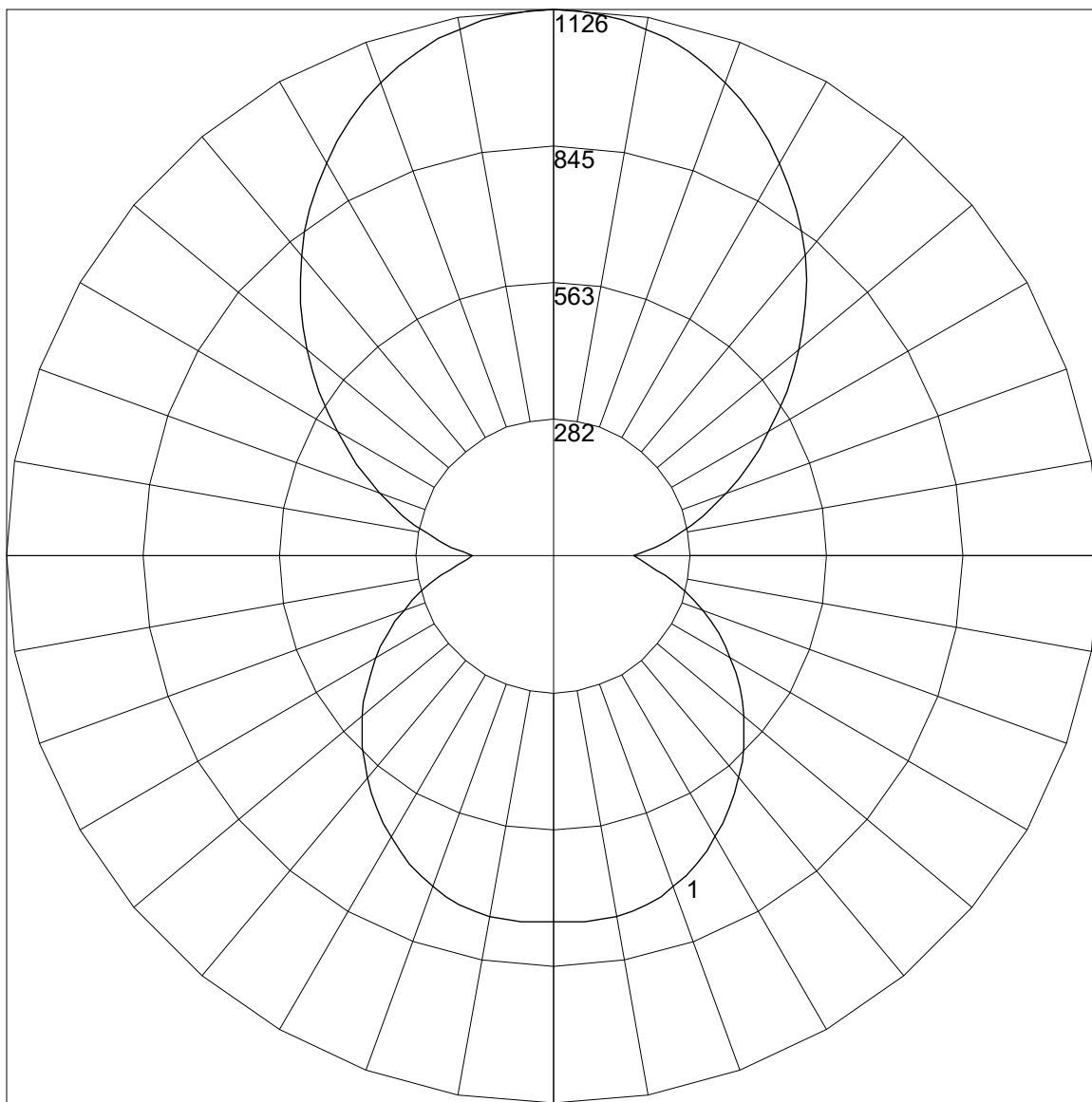
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	79	79	79	64	64	64	49	49	49	43
1	95	90	86	82	87	83	79	76	68	65	63	54	53	51	42	41	40	34
2	86	78	72	66	78	72	66	61	59	55	51	47	44	42	36	34	33	27
3	78	68	61	55	71	63	56	51	52	47	43	41	38	35	32	29	27	23
4	71	60	52	46	65	55	48	43	46	40	36	37	33	29	28	25	23	19
5	65	54	45	39	59	49	42	36	41	35	31	33	29	25	25	22	20	17
6	60	48	40	34	55	44	37	31	36	31	27	29	25	22	23	20	17	14
7	56	43	35	29	50	40	32	27	33	27	23	27	22	19	21	18	15	13
8	51	39	31	26	47	36	29	24	30	24	21	24	20	17	19	16	14	11
9	48	36	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12	10
10	45	33	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 1126.412 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)