

# 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-V-H-835-OPEN-DL-ITL90630 ITL85134.006.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.006 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-V-H-835-OPEN-DL

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 65.2 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 66.7 WATTS

[\_ABSOLUTE]LUMENS]6685

[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	6685
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	65.2
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 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	42.000	108.000	179.000	223.000	240.000
95.0	82.000	146.000	214.000	257.000	271.000
97.5	124.000	184.000	249.000	291.000	305.000
100.0	165.000	221.000	285.000	325.000	339.000
102.5	209.000	262.000	324.000	361.000	375.000
105.0	254.000	304.000	363.000	398.000	412.000
107.5	300.000	348.000	404.000	437.000	451.000
110.0	348.000	393.000	447.000	477.000	489.000
112.5	395.000	440.000	491.000	519.000	530.000
115.0	446.000	486.000	538.000	563.000	573.000
117.5	498.000	535.000	585.000	607.000	615.000
120.0	550.000	583.000	633.000	653.000	660.000
122.5	602.000	632.000	680.000	701.000	707.000
125.0	656.000	682.000	727.000	748.000	757.000
127.5	709.000	733.000	776.000	795.000	805.000
130.0	763.000	781.000	826.000	843.000	852.000
132.5	818.000	832.000	875.000	891.000	897.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-H-835-OPEN-DL-ITL90630 ITL85134.006.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	871.000	882.000	923.000	939.000	945.000
<b>137.5</b>	924.000	933.000	970.000	986.000	992.000
<b>140.0</b>	977.000	981.000	1015.000	1032.000	1038.000
<b>142.5</b>	1028.000	1029.000	1059.000	1078.000	1082.000
<b>145.0</b>	1076.000	1076.000	1104.000	1121.000	1123.000
<b>147.5</b>	1124.000	1120.000	1147.000	1160.000	1163.000
<b>150.0</b>	1169.000	1163.000	1188.000	1201.000	1201.000
<b>152.5</b>	1210.000	1203.000	1226.000	1238.000	1238.000
<b>155.0</b>	1250.000	1242.000	1263.000	1273.000	1273.000
<b>157.5</b>	1287.000	1277.000	1297.000	1303.000	1305.000
<b>160.0</b>	1319.000	1310.000	1327.000	1332.000	1334.000
<b>162.5</b>	1349.000	1340.000	1355.000	1357.000	1360.000
<b>165.0</b>	1375.000	1368.000	1378.000	1380.000	1383.000
<b>167.5</b>	1397.000	1392.000	1398.000	1400.000	1402.000
<b>170.0</b>	1415.000	1413.000	1414.000	1416.000	1417.000
<b>172.5</b>	1430.000	1429.000	1428.000	1430.000	1430.000
<b>175.0</b>	1439.000	1439.000	1439.000	1439.000	1439.000
<b>177.5</b>	1446.000	1446.000	1446.000	1445.000	1446.000
<b>180.0</b>	1448.000	1448.000	1448.000	1448.000	1448.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-H-835-OPEN-DL-ITL90630 ITL85134.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	278.12	N.A.	4.20
0-30	591.00	N.A.	8.80
0-40	969.43	N.A.	14.50
0-60	1745.97	N.A.	26.10
0-80	2296.44	N.A.	34.40
0-90	2443.37	N.A.	36.50
10-90	2371.71	N.A.	35.50
20-40	691.32	N.A.	10.30
20-50	1090.55	N.A.	16.30
40-70	1094.57	N.A.	16.40
60-80	550.47	N.A.	8.20
70-80	232.44	N.A.	3.50
80-90	146.92	N.A.	2.20
90-110	583.84	N.A.	8.70
90-120	1103.63	N.A.	16.50
90-130	1744.41	N.A.	26.10
90-150	3137.1	N.A.	46.90
90-180	4241.93	N.A.	63.50
110-180	3658.09	N.A.	54.70
0-180	6685.3	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	213.50
100-110	370.35
110-120	519.78
120-130	640.78
130-140	704.67
140-150	688.02
150-160	580.15
160-170	388.07
170-180	136.61

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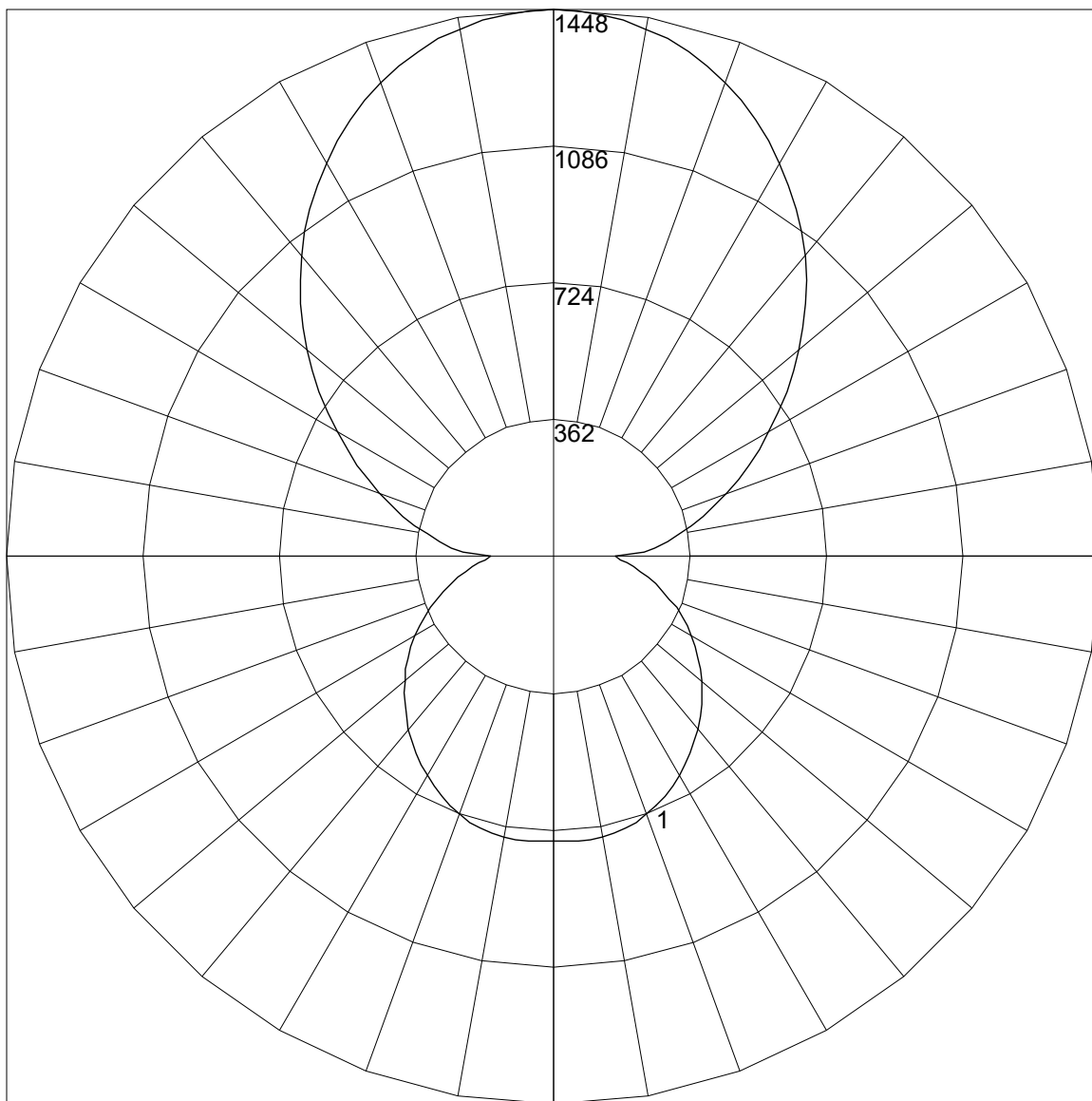
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	94	89	85	81	85	81	77	74	65	63	60	51	49	47	37	36	35	29
2	85	77	71	66	77	70	65	60	57	53	49	44	41	39	32	31	29	24
3	77	68	60	54	70	61	55	50	50	45	41	39	35	32	28	26	24	20
4	71	60	52	46	64	54	47	42	44	39	35	34	30	28	25	23	21	17
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	23	20	18	14
6	59	47	39	33	54	43	36	31	35	30	26	27	24	21	20	18	16	12
7	55	43	35	29	49	39	32	27	32	26	22	25	21	18	19	16	14	11
8	51	39	31	25	46	35	28	24	29	23	20	23	19	16	17	14	12	10
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	16	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8

POLAR GRAPH



Maximum Candela = 1448 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)