

# 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-V-835-ITL85132.009.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85132.009 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]08/11/15  
[ISSUEDATE]02/10/17  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HP-2-ID-4ft-H-V-835  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 65.2 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 66.7 WATTS  
[ABSOLUTE]LUMENS]6141  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85132. 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	6141
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	65.2
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	16081	15416	14664
55	14637	13923	13208
65	13220	12537	11927
75	11908	11262	10793
85	10452	10103	9581

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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	1314.000	1314.000	1314.000	1314.000	1314.000
2.5	1311.000	1313.000	1312.000	1312.000	1312.000
5.0	1306.000	1307.000	1305.000	1304.000	1304.000
7.5	1295.000	1296.000	1293.000	1292.000	1292.000
10.0	1281.000	1279.000	1277.000	1276.000	1274.000
12.5	1262.000	1258.000	1256.000	1253.000	1249.000
15.0	1241.000	1233.000	1231.000	1225.000	1220.000
17.5	1215.000	1204.000	1201.000	1192.000	1186.000
20.0	1185.000	1172.000	1167.000	1156.000	1147.000
22.5	1150.000	1136.000	1130.000	1118.000	1107.000
25.0	1114.000	1098.000	1089.000	1076.000	1064.000
27.5	1073.000	1059.000	1048.000	1031.000	1018.000
30.0	1031.000	1016.000	1003.000	984.000	971.000
32.5	986.000	971.000	957.000	936.000	926.000
35.0	942.000	925.000	910.000	887.000	877.000
37.5	895.000	879.000	862.000	840.000	829.000
40.0	847.000	830.000	815.000	790.000	780.000
42.5	798.000	782.000	766.000	741.000	731.000
45.0	749.000	734.000	718.000	693.000	683.000
47.5	700.000	685.000	669.000	645.000	636.000
50.0	650.000	636.000	621.000	597.000	589.000
52.5	601.000	588.000	573.000	551.000	543.000
55.0	553.000	542.000	526.000	506.000	499.000
57.5	506.000	496.000	480.000	462.000	456.000
60.0	458.000	449.000	435.000	418.000	413.000
62.5	413.000	404.000	391.000	378.000	372.000
65.0	368.000	360.000	349.000	337.000	332.000
67.5	326.000	317.000	309.000	297.000	293.000
70.0	283.000	277.000	268.000	260.000	255.000
72.5	242.000	237.000	230.000	223.000	219.000
75.0	203.000	198.000	192.000	187.000	184.000
77.5	165.000	161.000	157.000	153.000	149.000
80.0	128.000	126.000	122.000	119.000	117.000
82.5	93.000	91.000	89.000	87.000	85.000
85.0	60.000	59.000	58.000	57.000	55.000
87.5	27.000	26.000	27.000	28.000	27.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	23.333	23.333	23.333	25.667	25.667
95.0	55.222	52.889	52.889	53.667	54.444
97.5	87.111	84.778	83.222	84.000	84.000
100.0	119.778	115.889	115.889	115.889	115.111
102.5	154.000	150.889	149.333	148.556	148.556
105.0	189.778	187.444	183.556	182.778	182.000
107.5	226.333	224.000	219.333	218.556	217.778
110.0	264.445	262.111	258.222	256.667	254.333
112.5	304.111	300.222	297.889	294.000	291.667
115.0	343.778	341.445	339.889	332.111	330.555
117.5	385.778	381.889	381.889	372.555	371.000
120.0	428.555	422.333	423.889	414.555	411.445
122.5	469.000	462.778	465.889	458.111	452.667
125.0	514.111	504.778	507.889	500.111	496.222
127.5	558.444	548.333	549.889	543.667	542.111
130.0	602.000	591.889	593.444	585.667	586.444
132.5	645.556	634.667	637.000	629.222	629.222

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	687.556	677.444	680.556	673.556	673.556
<b>137.5</b>	730.333	720.222	723.333	717.111	716.333
<b>140.0</b>	773.111	763.000	765.333	761.444	759.111
<b>142.5</b>	813.556	802.667	805.778	801.889	798.778
<b>145.0</b>	854.778	843.111	846.222	843.111	837.667
<b>147.5</b>	892.889	881.222	885.111	880.444	875.000
<b>150.0</b>	929.444	917.778	922.444	917.000	912.333
<b>152.5</b>	964.444	952.778	957.444	952.778	948.111
<b>155.0</b>	997.889	986.222	991.667	987.000	982.333
<b>157.5</b>	1026.667	1015.778	1022.000	1017.333	1012.667
<b>160.0</b>	1054.667	1044.555	1050.000	1045.333	1040.667
<b>162.5</b>	1078.778	1070.222	1074.111	1071.000	1067.889
<b>165.0</b>	1100.555	1092.778	1095.111	1093.555	1091.222
<b>167.5</b>	1116.889	1112.222	1113.778	1112.222	1111.445
<b>170.0</b>	1131.667	1129.333	1130.111	1128.555	1127.778
<b>172.5</b>	1144.111	1143.333	1143.333	1142.555	1142.555
<b>175.0</b>	1152.667	1152.667	1152.667	1152.667	1151.889
<b>177.5</b>	1157.333	1158.111	1158.111	1158.111	1157.333
<b>180.0</b>	1160.445	1160.445	1160.445	1160.445	1160.445

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	469.77	N.A.	7.70
0-30	970.35	N.A.	15.80
0-40	1538.16	N.A.	25.00
0-60	2559.88	N.A.	41.70
0-80	3110.68	N.A.	50.70
0-90	3174.64	N.A.	51.70
10-90	3050.93	N.A.	49.70
20-40	1068.39	N.A.	17.40
20-50	1620.19	N.A.	26.40
40-70	1368.07	N.A.	22.30
60-80	550.80	N.A.	9.00
70-80	204.45	N.A.	3.30
80-90	63.96	N.A.	1.00
90-110	256.05	N.A.	4.20
90-120	590.90	N.A.	9.60
90-130	1042.54	N.A.	17.00
90-150	2093.49	N.A.	34.10
90-180	2965.95	N.A.	48.30
110-180	2709.9	N.A.	44.10
0-180	6140.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

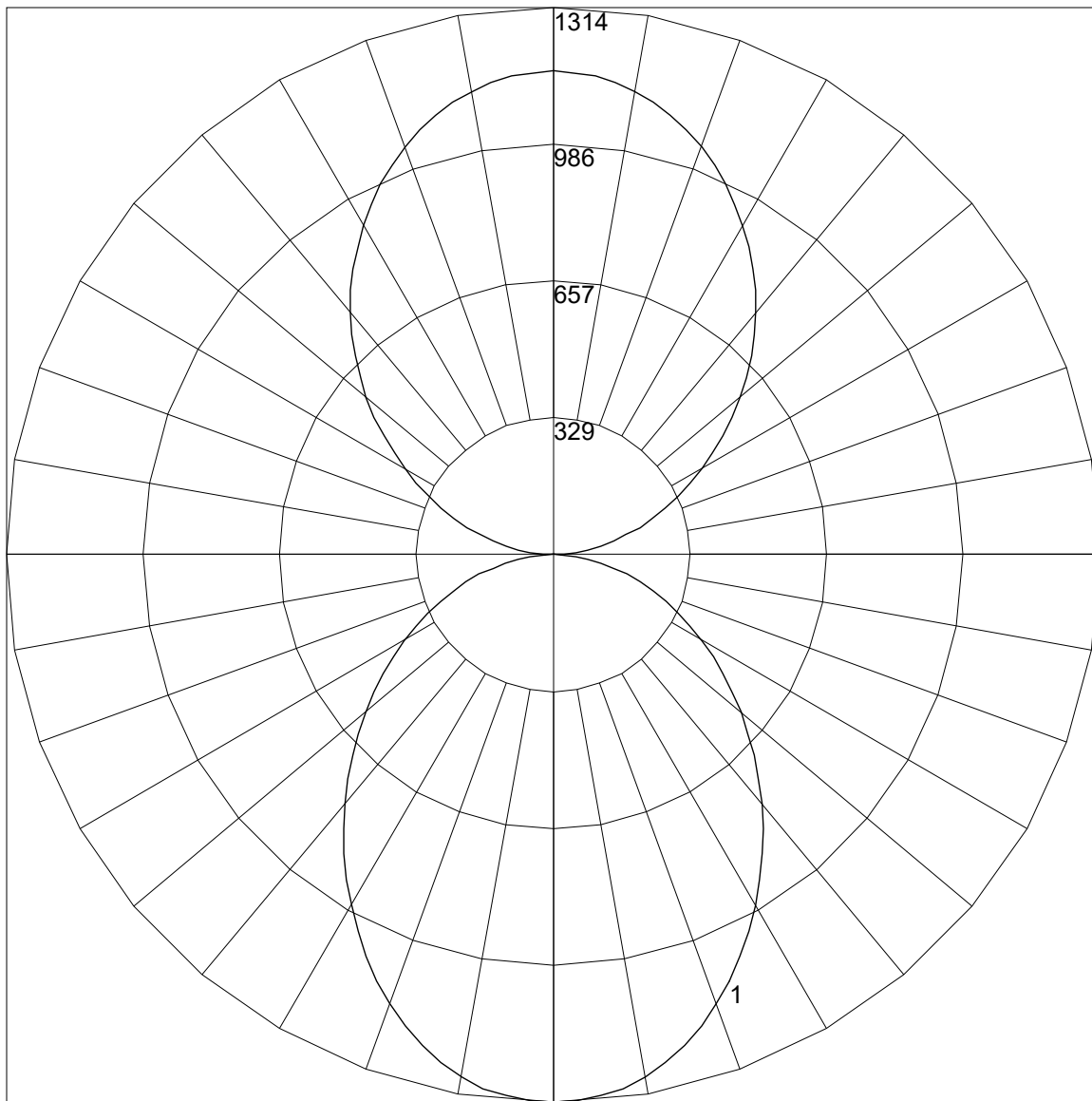
Zone	Lumens
0-10	123.70
10-20	346.07
20-30	500.58
30-40	567.81
40-50	551.80
50-60	469.91
60-70	346.35
70-80	204.45
80-90	63.96
90-100	59.94
100-110	196.12
110-120	334.85
120-130	451.64
130-140	523.10
140-150	527.85
150-160	454.83
160-170	308.34
170-180	109.29

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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	94	90	86	91	87	84	81	74	71	69	62	60	59	51	50	49	44
2	89	82	76	71	82	76	71	66	65	61	57	55	52	49	45	43	41	37
3	82	72	65	59	75	67	61	55	57	52	48	48	45	42	40	37	35	31
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	36	33	30	27
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	23
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	29	26	23	21
7	59	46	38	33	54	43	36	31	37	32	28	32	28	24	27	24	21	18
8	54	42	34	29	50	39	32	28	34	29	25	29	25	22	25	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14

POLAR GRAPH



Maximum Candela = 1314 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)