

# 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-I-4FT-S-835-ITL85134.001.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85134.001 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]08/12/15  
[ISSUEDATE]02/10/17  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HP-2-I-4ft-S-835  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 14.4 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 15.9 WATTS  
[ABSOLUTE]LUMENS]1535  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file 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	1535
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	14.4
Ballast Factor	1.00
CIE Type	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	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	12.690	13.509	13.918	13.509	13.918
<b>95.0</b>	29.474	29.883	29.883	29.474	29.474
<b>97.5</b>	46.667	46.667	46.257	45.848	45.848
<b>100.0</b>	63.860	63.041	62.632	62.222	62.222
<b>102.5</b>	81.871	80.643	80.234	79.006	79.415
<b>105.0</b>	100.292	99.474	98.246	96.608	97.018
<b>107.5</b>	119.532	118.713	116.667	115.029	115.439
<b>110.0</b>	139.591	137.953	136.316	133.860	133.450
<b>112.5</b>	158.830	158.421	156.374	153.509	152.690
<b>115.0</b>	179.708	178.480	177.251	173.567	172.749
<b>117.5</b>	201.404	199.766	198.538	194.035	192.807
<b>120.0</b>	222.690	220.643	220.234	215.322	213.684
<b>122.5</b>	244.386	241.930	241.520	237.427	235.380
<b>125.0</b>	266.491	263.626	262.807	259.123	258.713
<b>127.5</b>	288.596	285.731	284.912	281.228	280.819
<b>130.0</b>	310.702	306.608	307.427	303.333	302.924
<b>132.5</b>	333.216	328.713	329.532	325.439	324.211
<b>135.0</b>	355.322	350.409	351.637	347.544	346.316
<b>137.5</b>	377.018	372.515	372.924	369.649	368.421
<b>140.0</b>	398.713	393.392	393.801	390.936	390.117
<b>142.5</b>	419.591	414.269	414.269	412.222	410.585
<b>145.0</b>	439.649	434.327	434.737	432.281	430.234
<b>147.5</b>	459.298	453.158	454.386	451.111	449.474
<b>150.0</b>	477.719	471.579	473.216	470.351	467.895
<b>152.5</b>	494.912	489.181	490.819	488.363	485.906
<b>155.0</b>	511.287	505.556	508.012	505.556	503.099
<b>157.5</b>	526.433	520.702	523.567	521.111	519.064
<b>160.0</b>	539.532	535.029	537.485	535.439	533.801
<b>162.5</b>	551.813	547.719	550.175	548.129	546.901
<b>165.0</b>	562.456	559.181	560.819	559.591	558.772
<b>167.5</b>	571.462	569.415	570.234	569.415	569.006
<b>170.0</b>	578.830	578.012	578.012	577.602	577.193
<b>172.5</b>	584.971	584.561	584.152	584.561	584.152
<b>175.0</b>	589.064	589.064	589.064	589.064	589.064
<b>177.5</b>	591.930	591.930	591.930	591.520	591.930
<b>180.0</b>	592.749	592.749	592.749	592.749	592.749

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	137.01	N.A.	8.90
90-120	311.97	N.A.	20.30
90-130	546.43	N.A.	35.60
90-150	1087.86	N.A.	70.90
90-180	1534.72	N.A.	100.00
110-180	1397.7	N.A.	91.10
0-180	1534.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	32.88
100-110	104.13
110-120	174.96
120-130	234.46
130-140	270.08
140-150	271.34
150-160	233.15
160-170	157.84
170-180	55.88

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

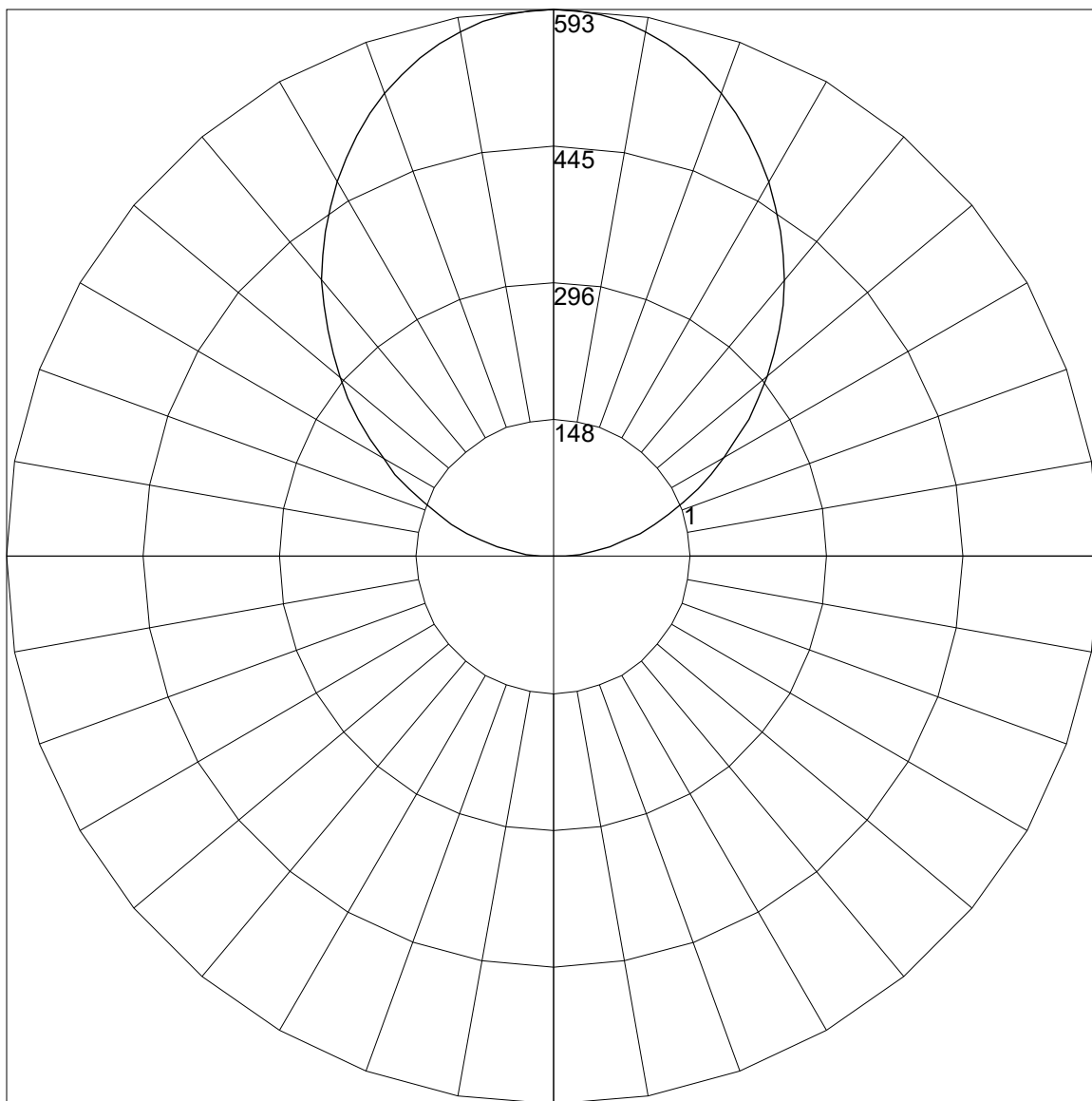
Effective Floor Cavity Reflectance 0.20

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

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POLAR GRAPH



Maximum Candela = 592.749 Located At Horizontal Angle = 0, Vertical Angle = 180

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)