

# 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-4-I-4FT-B-835-ITL85127.002.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85127.002 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]08/07/15  
[ISSUEDATE]02/09/17  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HP-4-I-4ft-B-835  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 18.3 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 19.6 WATTS  
[ABSOLUTE]LUMENS]2117  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85127. 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	2117
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	18.3
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)	0.32 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>	18.012	18.526	19.041	19.041	19.556
<b>95.0</b>	39.111	39.626	40.655	41.170	41.170
<b>97.5</b>	61.754	61.754	63.298	64.327	64.327
<b>100.0</b>	84.912	85.427	86.971	88.515	88.515
<b>102.5</b>	109.614	109.099	111.673	113.216	113.216
<b>105.0</b>	135.860	135.345	137.404	138.947	138.433
<b>107.5</b>	163.135	161.591	164.678	165.708	165.193
<b>110.0</b>	191.953	189.380	191.439	192.982	192.468
<b>112.5</b>	220.772	218.713	219.743	222.316	220.772
<b>115.0</b>	250.620	247.532	248.047	251.649	249.076
<b>117.5</b>	279.953	276.351	277.380	279.953	277.895
<b>120.0</b>	308.772	306.199	307.228	306.199	306.713
<b>122.5</b>	337.076	335.532	337.076	335.532	336.047
<b>125.0</b>	367.439	367.953	367.439	364.351	365.380
<b>127.5</b>	397.287	398.830	398.830	394.199	394.713
<b>130.0</b>	427.135	429.193	428.678	423.532	424.047
<b>132.5</b>	455.953	458.012	458.012	453.380	452.866
<b>135.0</b>	485.287	487.345	487.345	483.743	482.199
<b>137.5</b>	513.591	514.105	515.649	512.561	509.988
<b>140.0</b>	542.924	541.380	544.468	541.380	538.292
<b>142.5</b>	570.199	568.140	572.257	568.140	565.567
<b>145.0</b>	597.474	592.327	600.047	594.386	592.327
<b>147.5</b>	622.690	618.058	625.778	619.602	618.058
<b>150.0</b>	646.877	642.246	647.906	644.304	642.246
<b>152.5</b>	670.035	664.374	669.520	667.462	663.860
<b>155.0</b>	691.135	685.474	690.105	688.561	684.959
<b>157.5</b>	710.690	705.029	709.661	708.117	705.029
<b>160.0</b>	728.187	722.526	727.158	725.099	723.041
<b>162.5</b>	744.655	739.509	744.140	742.082	740.538
<b>165.0</b>	759.064	754.947	758.035	757.006	755.462
<b>167.5</b>	770.901	767.298	769.357	769.871	768.842
<b>170.0</b>	780.678	778.620	779.649	779.649	779.135
<b>172.5</b>	787.883	787.368	787.883	787.883	787.883
<b>175.0</b>	793.544	793.544	794.058	794.058	793.544
<b>177.5</b>	797.661	797.146	797.146	797.146	797.661
<b>180.0</b>	798.690	798.690	798.690	798.690	798.690

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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	190.64	N.A.	9.00
90-120	437.32	N.A.	20.70
90-130	765.20	N.A.	36.10
90-150	1511.8	N.A.	71.40
90-180	2117.23	N.A.	100.00
110-180	1926.59	N.A.	91.00
0-180	2117.23	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	45.11
100-110	145.53
110-120	246.68
120-130	327.88
130-140	374.27
140-150	372.33
150-160	316.86
160-170	213.25
170-180	75.31

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

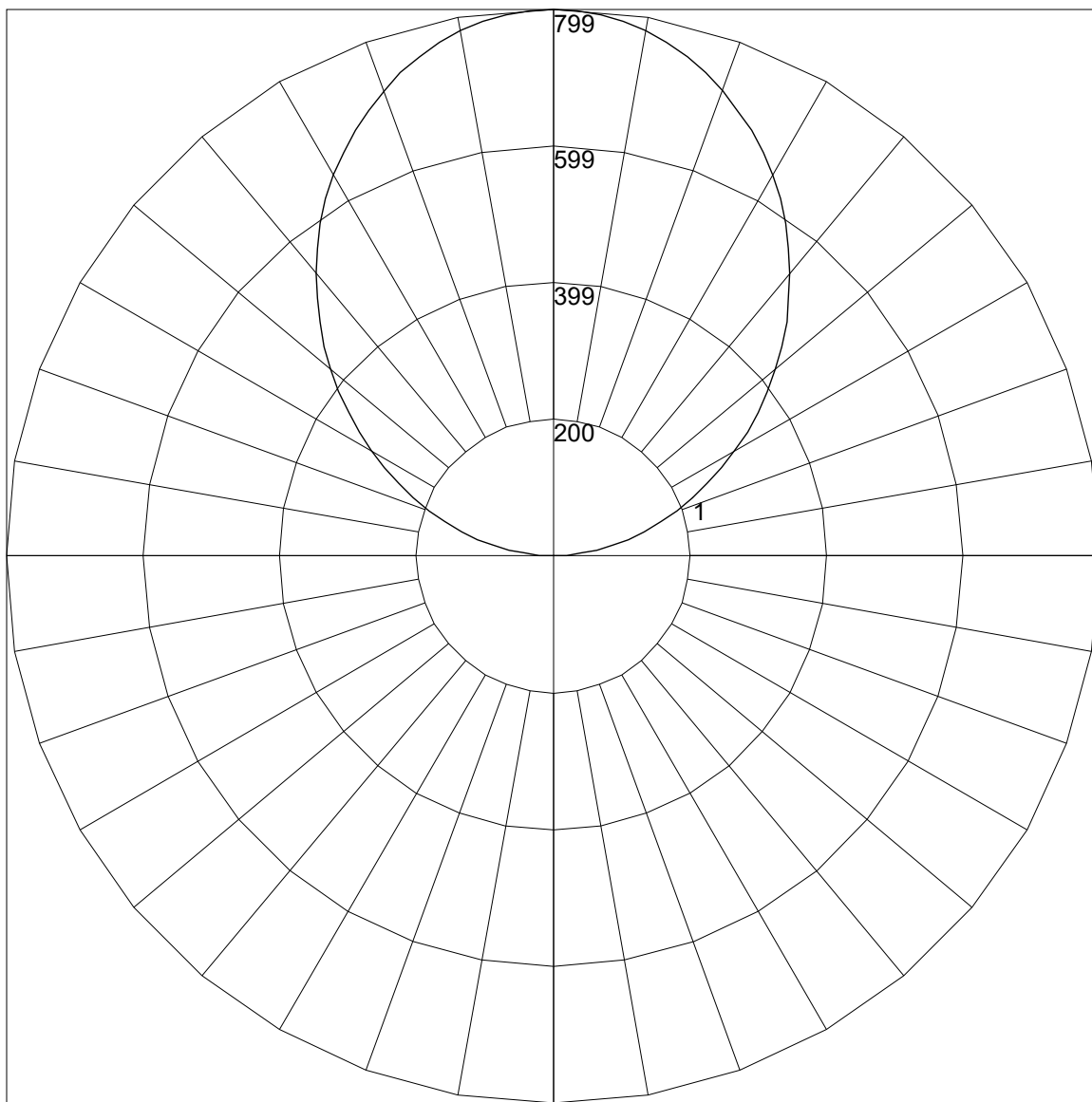
Effective Floor Cavity Reflectance 0.20

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	28	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 = 798.69 Located At Horizontal Angle = 0, Vertical Angle = 180

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