

# 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-B-8TW-ITL85134.902.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85134.902 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-B-8TW  
[OTHER]ies file is based on 3500K; see luminaire tech sheet at [www.finelite.com](http://www.finelite.com) for lumen adjustment factors for other CCT's & CRI  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 20.1 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 21.5 WATTS  
[ABSOLUTE]LUMENS]1929  
[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	1929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	20.1
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>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	15.953	16.982	17.497	16.982	17.497
<b>95.0</b>	37.053	37.567	37.567	37.053	37.053
<b>97.5</b>	58.667	58.667	58.152	57.637	57.637
<b>100.0</b>	80.281	79.251	78.737	78.222	78.222
<b>102.5</b>	102.924	101.380	100.865	99.322	99.836
<b>105.0</b>	126.082	125.053	123.509	121.450	121.965
<b>107.5</b>	150.269	149.240	146.667	144.608	145.123
<b>110.0</b>	175.485	173.427	171.368	168.281	167.766
<b>112.5</b>	199.673	199.158	196.585	192.982	191.953
<b>115.0</b>	225.918	224.374	222.830	218.199	217.170
<b>117.5</b>	253.193	251.135	249.591	243.930	242.386
<b>120.0</b>	279.953	277.380	276.865	270.690	268.632
<b>122.5</b>	307.228	304.140	303.626	298.480	295.906
<b>125.0</b>	335.018	331.415	330.386	325.754	325.240
<b>127.5</b>	362.807	359.205	358.175	353.544	353.029
<b>130.0</b>	390.596	385.450	386.480	381.333	380.819
<b>132.5</b>	418.901	413.240	414.269	409.123	407.579
<b>135.0</b>	446.690	440.515	442.058	436.912	435.368
<b>137.5</b>	473.965	468.304	468.819	464.702	463.158
<b>140.0</b>	501.240	494.550	495.064	491.462	490.433
<b>142.5</b>	527.485	520.795	520.795	518.222	516.164
<b>145.0</b>	552.702	546.012	546.526	543.439	540.866
<b>147.5</b>	577.404	569.684	571.228	567.111	565.053
<b>150.0</b>	600.561	592.842	594.901	591.298	588.211
<b>152.5</b>	622.175	614.971	617.029	613.942	610.854
<b>155.0</b>	642.760	635.556	638.643	635.556	632.468
<b>157.5</b>	661.801	654.596	658.199	655.111	652.538
<b>160.0</b>	678.269	672.608	675.696	673.123	671.064
<b>162.5</b>	693.708	688.561	691.649	689.076	687.532
<b>165.0</b>	707.088	702.971	705.029	703.485	702.456
<b>167.5</b>	718.409	715.836	716.866	715.836	715.322
<b>170.0</b>	727.673	726.643	726.643	726.129	725.614
<b>172.5</b>	735.392	734.877	734.363	734.877	734.363
<b>175.0</b>	740.538	740.538	740.538	740.538	740.538
<b>177.5</b>	744.140	744.140	744.140	743.626	744.140
<b>180.0</b>	745.170	745.170	745.170	745.170	745.170

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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	172.25	N.A.	8.90
90-120	392.19	N.A.	20.30
90-130	686.94	N.A.	35.60
90-150	1367.59	N.A.	70.90
90-180	1929.36	N.A.	100.00
110-180	1757.11	N.A.	91.10
0-180	1929.36	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	41.34
100-110	130.91
110-120	219.95
120-130	294.75
130-140	339.53
140-150	341.11
150-160	293.10
160-170	198.42
170-180	70.24

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

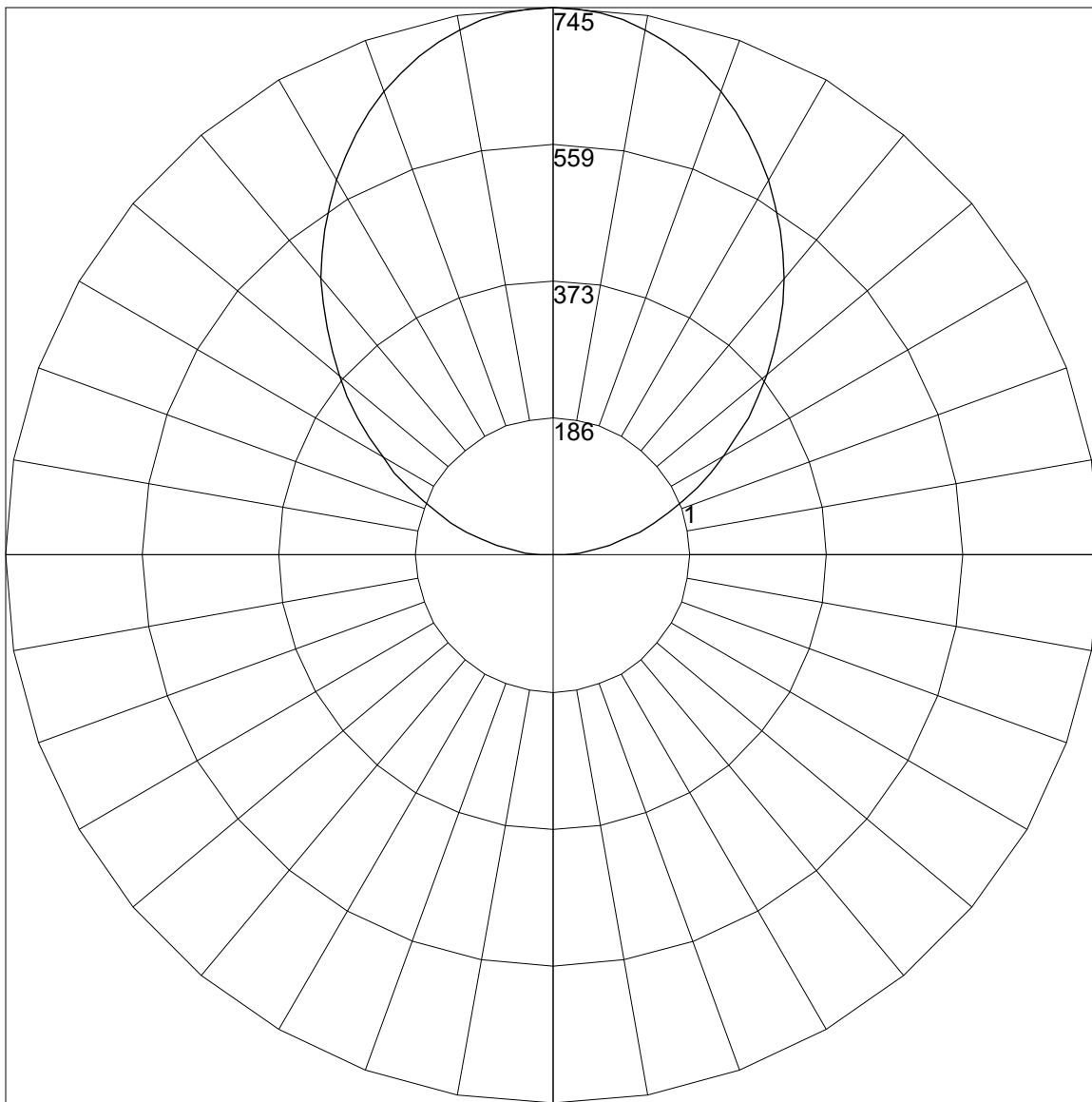
Effective Floor Cavity Reflectance 0.20

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 = 745.17 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)