

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-H-835-ITL85134.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85134.003 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-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.1 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 28.9 WATTS
[ABSOLUTE]LUMENS]2916
[OTHER]see 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2916
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	28.1
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>
90.0	0.000	0.000	0.000	0.000	0.000
92.5	24.111	25.667	26.444	25.667	26.444
95.0	56.000	56.778	56.778	56.000	56.000
97.5	88.667	88.667	87.889	87.111	87.111
100.0	121.333	119.778	119.000	118.222	118.222
102.5	155.556	153.222	152.444	150.111	150.889
105.0	190.556	189.000	186.667	183.556	184.333
107.5	227.111	225.556	221.667	218.556	219.333
110.0	265.222	262.111	259.000	254.333	253.556
112.5	301.778	301.000	297.111	291.667	290.111
115.0	341.444	339.111	336.778	329.778	328.222
117.5	382.667	379.556	377.222	368.667	366.333
120.0	423.111	419.222	418.444	409.111	406.000
122.5	464.333	459.667	458.889	451.111	447.222
125.0	506.333	500.889	499.333	492.333	491.556
127.5	548.333	542.889	541.333	534.333	533.556
130.0	590.333	582.556	584.111	576.333	575.556
132.5	633.111	624.556	626.111	618.333	616.000
135.0	675.111	665.778	668.111	660.333	658.000
137.5	716.333	707.778	708.556	702.333	700.000
140.0	757.556	747.444	748.222	742.778	741.222
142.5	797.222	787.111	787.111	783.222	780.111
145.0	835.333	825.222	826.000	821.333	817.444
147.5	872.667	861.000	863.333	857.111	854.000
150.0	907.667	896.000	899.111	893.667	889.000
152.5	940.333	929.444	932.556	927.889	923.222
155.0	971.444	960.556	965.222	960.556	955.889
157.5	1000.222	989.333	994.778	990.111	986.222
160.0	1025.111	1016.556	1021.222	1017.333	1014.222
162.5	1048.444	1040.667	1045.333	1041.444	1039.111
165.0	1068.667	1062.444	1065.556	1063.222	1061.667
167.5	1085.778	1081.889	1083.444	1081.889	1081.111
170.0	1099.778	1098.222	1098.222	1097.444	1096.667
172.5	1111.444	1110.667	1109.889	1110.667	1109.889
175.0	1119.222	1119.222	1119.222	1119.222	1119.222
177.5	1124.667	1124.667	1124.667	1123.889	1124.667
180.0	1126.222	1126.222	1126.222	1126.222	1126.222

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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	260.33	N.A.	8.90
90-120	592.75	N.A.	20.30
90-130	1038.22	N.A.	35.60
90-150	2066.92	N.A.	70.90
90-180	2915.96	N.A.	100.00
110-180	2655.64	N.A.	91.10
0-180	2915.96	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	62.48
100-110	197.85
110-120	332.42
120-130	445.48
130-140	513.16
140-150	515.54
150-160	442.99
160-170	299.89
170-180	106.16

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

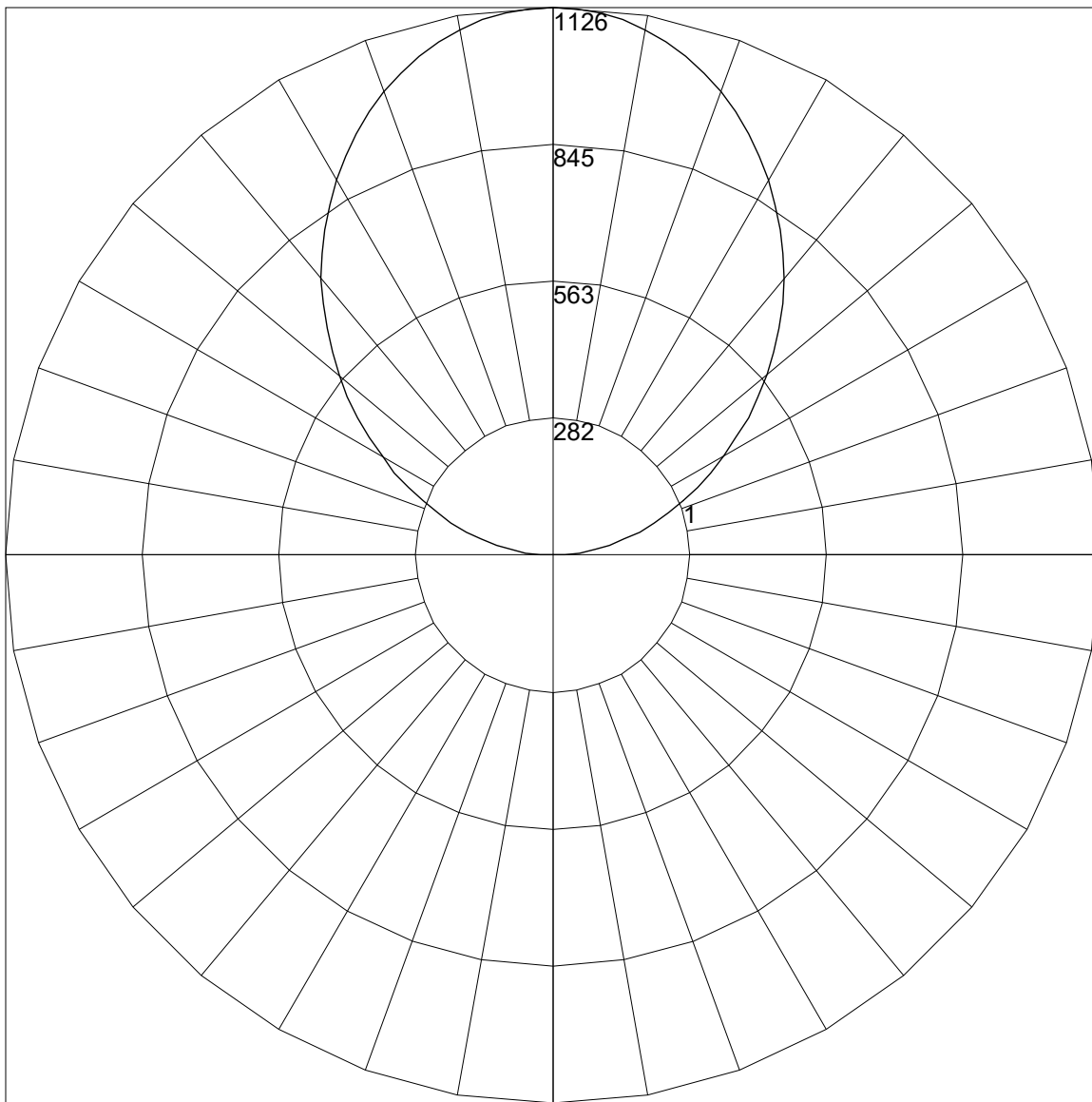
Effective Floor Cavity Reflectance 0.20

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 = 1126.222 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)