

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-H-835-ITL85127.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85127.003 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-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.2 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.0 WATTS
[ABSOLUTE]LUMENS]3200
[OTHER]see 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3200
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	28.2
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>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	27.222	28.000	28.778	28.778	29.556
95.0	59.111	59.889	61.444	62.222	62.222
97.5	93.333	93.333	95.667	97.222	97.222
100.0	128.333	129.111	131.444	133.778	133.778
102.5	165.667	164.889	168.778	171.111	171.111
105.0	205.333	204.556	207.667	210.000	209.222
107.5	246.556	244.222	248.889	250.444	249.667
110.0	290.111	286.222	289.333	291.667	290.889
112.5	333.667	330.556	332.111	336.000	333.667
115.0	378.778	374.111	374.889	380.333	376.444
117.5	423.111	417.667	419.222	423.111	420.000
120.0	466.667	462.778	464.333	462.778	463.556
122.5	509.444	507.111	509.444	507.111	507.889
125.0	555.333	556.111	555.333	550.667	552.222
127.5	600.444	602.778	602.778	595.778	596.556
130.0	645.556	648.667	647.889	640.111	640.889
132.5	689.111	692.222	692.222	685.222	684.444
135.0	733.444	736.556	736.556	731.111	728.778
137.5	776.222	777.000	779.333	774.667	770.778
140.0	820.556	818.222	822.889	818.222	813.556
142.5	861.778	858.667	864.889	858.667	854.778
145.0	903.000	895.222	906.889	898.333	895.222
147.5	941.111	934.111	945.778	936.444	934.111
150.0	977.667	970.667	979.222	973.778	970.667
152.5	1012.667	1004.111	1011.889	1008.778	1003.333
155.0	1044.556	1036.000	1043.000	1040.667	1035.222
157.5	1074.111	1065.556	1072.556	1070.222	1065.556
160.0	1100.556	1092.000	1099.000	1095.889	1092.778
162.5	1125.444	1117.667	1124.667	1121.556	1119.222
165.0	1147.222	1141.000	1145.667	1144.111	1141.778
167.5	1165.111	1159.667	1162.778	1163.556	1162.000
170.0	1179.889	1176.778	1178.333	1178.333	1177.556
172.5	1190.778	1190.000	1190.778	1190.778	1190.778
175.0	1199.333	1199.333	1200.111	1200.111	1199.333
177.5	1205.556	1204.778	1204.778	1204.778	1205.556
180.0	1207.111	1207.111	1207.111	1207.111	1207.111

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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	288.13	N.A.	9.00
90-120	660.95	N.A.	20.70
90-130	1156.5	N.A.	36.10
90-150	2284.88	N.A.	71.40
90-180	3199.91	N.A.	100.00
110-180	2911.78	N.A.	91.00
0-180	3199.91	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	68.18
100-110	219.95
110-120	372.82
120-130	495.55
130-140	565.66
140-150	562.73
150-160	478.90
160-170	322.30
170-180	113.83

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

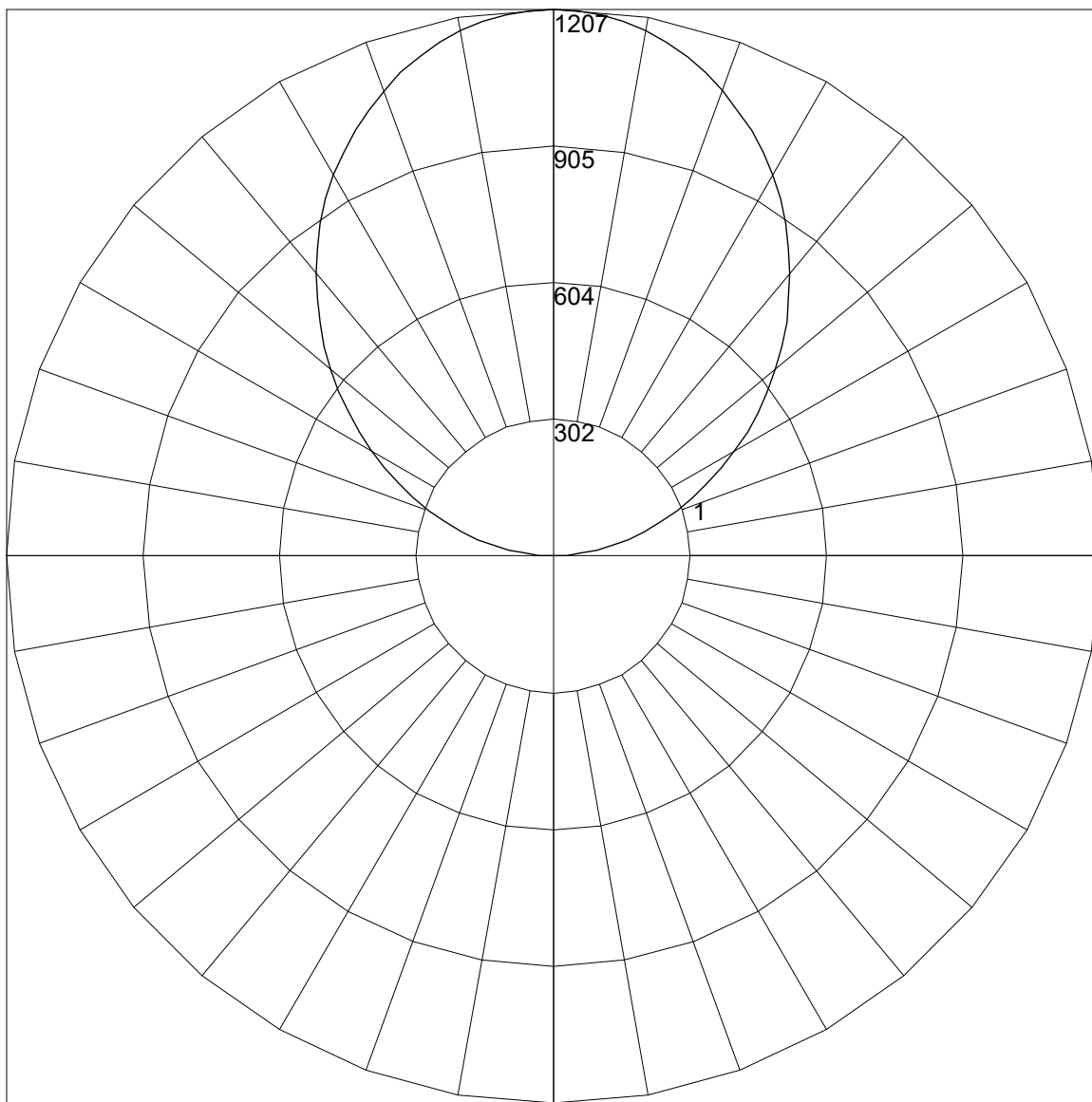
Effective Floor Cavity Reflectance 0.20

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 = 1207.111 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)