

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-S-835-ITL85127.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85127.001 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-S-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 14.4 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 15.9 WATTS
[ABSOLUTE]LUMENS]1684
[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	1684
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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)	0.32 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	14.327	14.737	15.146	15.146	15.556
95.0	31.111	31.520	32.339	32.749	32.749
97.5	49.123	49.123	50.351	51.170	51.170
100.0	67.544	67.953	69.181	70.409	70.409
102.5	87.193	86.784	88.830	90.058	90.058
105.0	108.070	107.661	109.298	110.526	110.117
107.5	129.766	128.538	130.994	131.813	131.404
110.0	152.690	150.643	152.281	153.509	153.099
112.5	175.614	173.977	174.795	176.842	175.614
115.0	199.357	196.901	197.310	200.175	198.129
117.5	222.690	219.825	220.643	222.690	221.053
120.0	245.614	243.567	244.386	243.567	243.977
122.5	268.129	266.901	268.129	266.901	267.310
125.0	292.281	292.690	292.281	289.825	290.643
127.5	316.023	317.251	317.251	313.567	313.977
130.0	339.766	341.403	340.994	336.901	337.310
132.5	362.690	364.327	364.327	360.643	360.234
135.0	386.023	387.661	387.661	384.795	383.567
137.5	408.538	408.947	410.175	407.719	405.673
140.0	431.871	430.643	433.099	430.643	428.187
142.5	453.567	451.930	455.205	451.930	449.883
145.0	475.263	471.170	477.310	472.807	471.170
147.5	495.322	491.637	497.778	492.865	491.637
150.0	514.561	510.877	515.380	512.515	510.877
152.5	532.982	528.480	532.573	530.936	528.070
155.0	549.766	545.263	548.947	547.719	544.854
157.5	565.322	560.819	564.503	563.275	560.819
160.0	579.240	574.737	578.421	576.784	575.146
162.5	592.339	588.246	591.930	590.292	589.064
165.0	603.801	600.526	602.982	602.164	600.936
167.5	613.216	610.351	611.988	612.398	611.579
170.0	620.994	619.357	620.175	620.175	619.766
172.5	626.725	626.316	626.725	626.725	626.725
175.0	631.228	631.228	631.637	631.637	631.228
177.5	634.503	634.094	634.094	634.094	634.503
180.0	635.322	635.322	635.322	635.322	635.322

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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	151.65	N.A.	9.00
90-120	347.87	N.A.	20.70
90-130	608.68	N.A.	36.10
90-150	1202.57	N.A.	71.40
90-180	1684.16	N.A.	100.00
110-180	1532.51	N.A.	91.00
0-180	1684.16	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	35.88
100-110	115.76
110-120	196.22
120-130	260.82
130-140	297.71
140-150	296.17
150-160	252.05
160-170	169.63
170-180	59.91

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

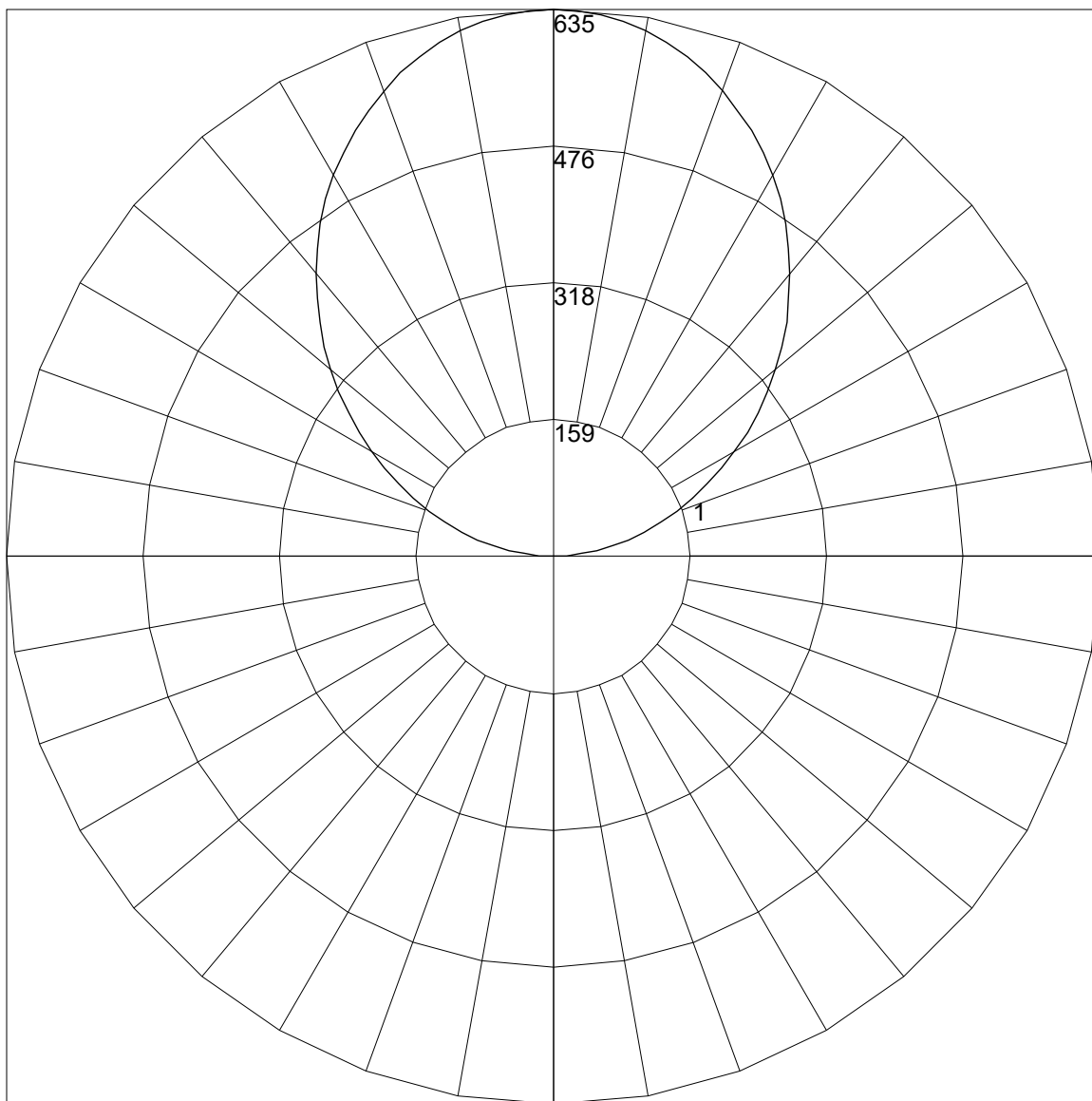
Effective Floor Cavity Reflectance 0.20

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 = 635.322 Located At Horizontal Angle = 0, Vertical Angle = 180

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