

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-ID-4FT-S-H-8-35-ITL85125.014.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85125.014 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/06/15
[ISSUE DATE]04/21/16
[MANUFACTURER]FINELITE, INC.
[LUMCAT]FINELITE HP-4-ID-4ft-S-H-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 42.9 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 45.2 WATTS
[ABSOLUTE LUMENS]4594
[OTHER]see www.finelite.com for source file ITL85125. 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	4594
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	42.9
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
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	7866	7757	7619
55	7304	7191	7045
65	6665	6573	6466
75	5829	5829	5804
85	4829	5052	5201

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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>
0.0	1122.333	1122.333	1122.333	1122.333	1122.333
2.5	1120.000	1120.000	1120.000	1120.000	1120.000
5.0	1114.555	1115.333	1115.333	1114.555	1115.333
7.5	1106.778	1107.555	1106.778	1105.222	1106.778
10.0	1095.889	1093.555	1094.333	1094.333	1092.778
12.5	1082.667	1078.778	1079.555	1079.555	1075.667
15.0	1064.000	1057.778	1061.667	1060.111	1054.667
17.5	1043.778	1035.222	1039.111	1037.555	1032.111
20.0	1019.667	1010.333	1013.444	1011.111	1005.667
22.5	993.222	983.111	985.444	982.333	976.889
25.0	963.667	952.778	955.111	952.000	945.778
27.5	931.778	920.889	922.444	918.556	913.111
30.0	897.556	886.667	887.444	883.556	877.333
32.5	861.778	853.222	852.444	847.000	841.556
35.0	826.000	816.667	815.889	808.889	804.222
37.5	787.111	777.778	778.556	770.000	765.333
40.0	748.222	740.444	739.667	731.111	726.444
42.5	710.889	700.778	698.444	691.444	686.778
45.0	668.111	661.111	658.778	651.778	647.111
47.5	626.889	619.889	618.333	611.333	606.667
50.0	585.667	579.444	577.111	570.111	566.222
52.5	544.444	538.222	537.444	529.667	525.778
55.0	503.222	497.778	495.445	488.445	485.333
57.5	461.222	456.555	454.222	448.000	444.889
60.0	420.778	415.333	413.778	408.333	406.000
62.5	378.778	374.111	372.555	367.889	366.333
65.0	338.333	334.445	333.667	329.778	328.222
67.5	297.111	294.778	294.000	290.889	289.333
70.0	257.445	255.889	255.889	253.556	252.000
72.5	218.556	219.333	217.778	218.556	216.222
75.0	181.222	182.000	181.222	182.000	180.444
77.5	145.444	146.222	147.778	147.778	147.778
80.0	112.000	112.778	114.333	115.111	115.111
82.5	81.667	82.444	83.222	84.000	84.000
85.0	50.556	52.111	52.889	53.667	54.444
87.5	21.778	23.333	24.111	26.444	26.444
90.0	0.000	0.000	0.000	0.000	0.000
92.5	12.281	13.099	13.918	15.556	15.965
95.0	29.064	29.474	31.111	33.158	33.567
97.5	47.076	47.485	49.532	51.579	51.170
100.0	65.497	66.316	68.363	70.409	70.000
102.5	84.328	85.965	88.012	90.058	90.058
105.0	105.205	106.842	108.889	110.526	110.117
107.5	127.310	128.538	129.766	131.404	131.404
110.0	151.053	151.053	152.281	153.918	153.509
112.5	174.795	173.977	175.614	178.070	176.023
115.0	198.538	197.719	198.538	200.585	198.947
117.5	222.281	222.690	223.099	223.509	222.281
120.0	246.433	247.251	246.842	246.433	245.614
122.5	270.994	271.813	271.813	270.585	269.357
125.0	295.965	297.193	297.193	294.737	293.509
127.5	320.936	321.754	322.573	318.889	316.433
130.0	345.088	345.497	346.316	343.860	341.813
132.5	369.649	369.240	369.649	368.012	365.555

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CANDELA TABULATION - (Cont.)

135.0	394.211	392.164	393.392	392.164	389.298
137.5	417.953	414.678	416.725	415.088	412.222
140.0	441.696	438.012	440.468	438.830	435.555
142.5	463.392	460.526	463.392	460.936	458.070
145.0	486.725	481.813	485.088	482.632	479.766
147.5	507.602	502.690	505.965	503.509	500.643
150.0	528.070	522.749	526.023	523.567	521.111
152.5	546.082	541.988	545.263	542.398	540.351
155.0	563.684	559.591	562.456	560.000	557.953
157.5	580.877	576.784	579.240	576.784	575.146
160.0	595.614	592.339	594.795	592.339	591.111
162.5	609.532	605.848	608.713	606.257	605.439
165.0	620.994	618.129	619.766	618.538	618.129
167.5	631.228	628.772	630.000	629.181	629.181
170.0	639.825	638.187	639.006	638.187	638.187
172.5	645.965	645.965	645.556	645.556	645.556
175.0	650.877	650.877	650.877	650.468	650.877
177.5	653.743	654.152	654.152	654.152	654.152
180.0	654.971	654.971	654.971	654.971	654.971

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	404.31	N.A.	8.80
0-30	843.24	N.A.	18.40
0-40	1352.22	N.A.	29.40
0-60	2301.11	N.A.	50.10
0-80	2823.45	N.A.	61.50
0-90	2882.59	N.A.	62.70
10-90	2776.81	N.A.	60.40
20-40	947.90	N.A.	20.60
20-50	1454.95	N.A.	31.70
40-70	1278.35	N.A.	27.80
60-80	522.34	N.A.	11.40
70-80	192.88	N.A.	4.20
80-90	59.14	N.A.	1.30
90-110	150.17	N.A.	3.30
90-120	347.37	N.A.	7.60
90-130	611.92	N.A.	13.30
90-150	1216.66	N.A.	26.50
90-180	1711.21	N.A.	37.30
110-180	1561.04	N.A.	34.00
0-180	4593.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.78
10-20	298.53
20-30	438.92
30-40	508.98
40-50	507.04
50-60	441.85
60-70	329.46
70-80	192.88
80-90	59.14
90-100	35.09
100-110	115.08
110-120	197.20
120-130	264.55
130-140	302.64
140-150	302.10
150-160	258.31
160-170	174.50
170-180	61.74

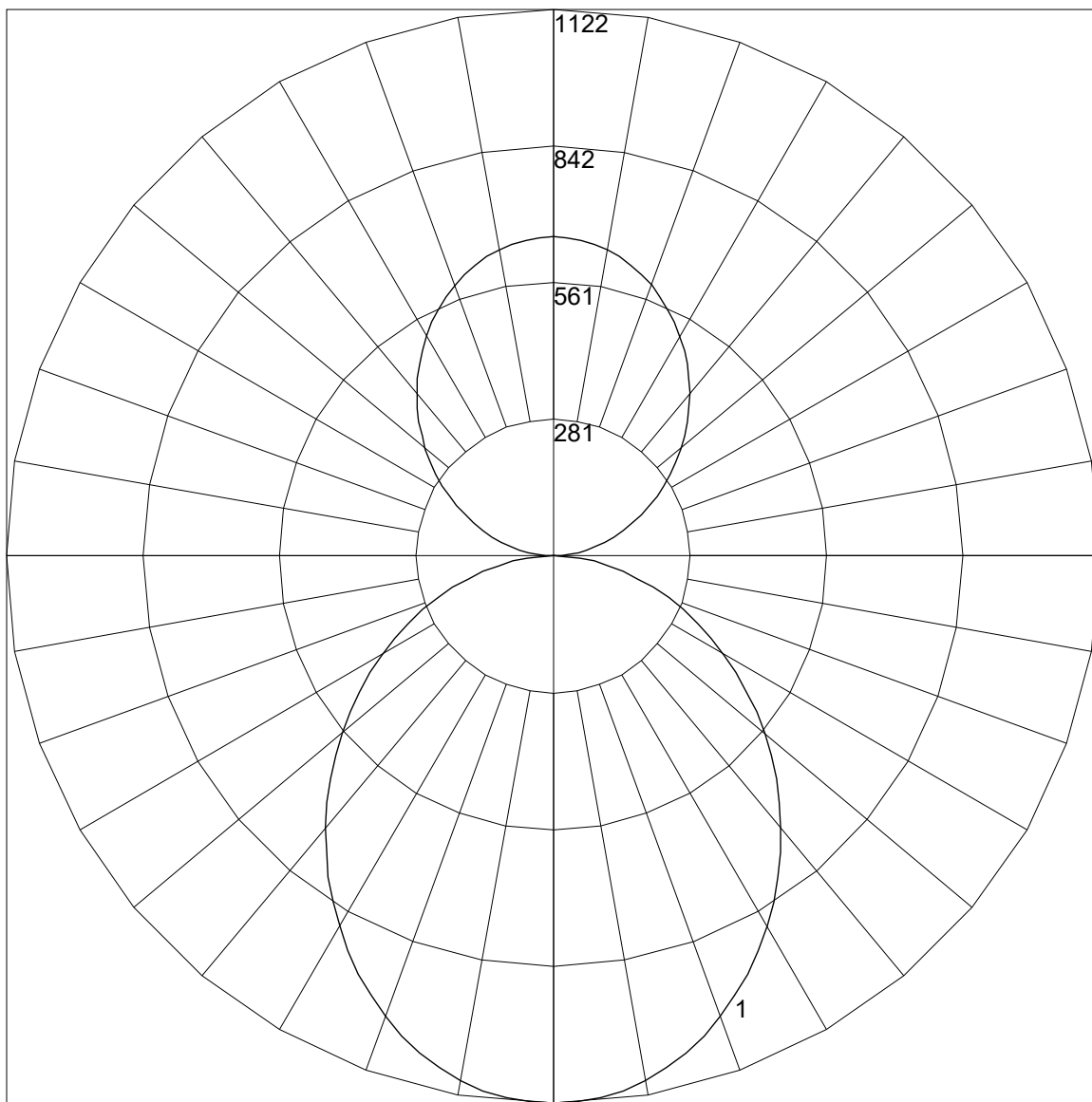
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	96	92	88	94	90	87	84	79	77	74	69	67	65	60	58	57	53
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48	44
3	84	74	66	60	78	69	63	57	61	56	52	54	50	46	47	44	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	48	42	49	43	38	43	38	34	38	34	31	28
6	65	52	44	38	61	50	42	37	44	38	33	39	34	30	34	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	39	32	27	49	37	30	26	34	28	24	30	25	22	27	23	20	18
10	49	36	29	24	46	34	28	23	31	25	21	28	23	20	25	21	18	16

POLAR GRAPH



Maximum Candela = 1122.333 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)