

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-B-H-8-35-ITL85125.011.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85125.011 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/06/15
[ISSUE DATE]04/21/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-ID-4ft-B-H-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 46.9 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 48.9 WATTS
[ABSOLUTE LUMENS]5034
[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	5034
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	46.9
Ballast Factor	1.00
CIE Type	General Diffuse
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	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	15.439	16.468	17.497	19.556	20.070
95.0	36.538	37.053	39.111	41.684	42.199
97.5	59.181	59.696	62.269	64.842	64.328
100.0	82.339	83.368	85.942	88.515	88.000
102.5	106.012	108.070	110.643	113.216	113.216
105.0	132.257	134.316	136.889	138.947	138.433
107.5	160.047	161.591	163.135	165.193	165.193
110.0	189.895	189.895	191.439	193.497	192.982
112.5	219.743	218.714	220.772	223.860	221.286
115.0	249.591	248.561	249.591	252.164	250.105
117.5	279.439	279.953	280.468	280.983	279.439
120.0	309.801	310.830	310.316	309.801	308.772
122.5	340.678	341.708	341.708	340.164	338.620
125.0	372.070	373.614	373.614	370.526	368.983
127.5	403.462	404.491	405.521	400.889	397.801
130.0	433.825	434.339	435.368	432.281	429.708
132.5	464.702	464.187	464.702	462.643	459.555

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CANDELA TABULATION - (Cont.)

135.0	495.579	493.006	494.550	493.006	489.404
137.5	525.427	521.310	523.883	521.825	518.222
140.0	555.275	550.643	553.731	551.673	547.556
142.5	582.550	578.947	582.550	579.462	575.860
145.0	611.883	605.708	609.825	606.737	603.135
147.5	638.129	631.953	636.070	632.982	629.380
150.0	663.860	657.170	661.287	658.199	655.111
152.5	686.503	681.357	685.474	681.871	679.298
155.0	708.632	703.485	707.088	704.000	701.427
157.5	730.246	725.099	728.187	725.099	723.041
160.0	748.772	744.655	747.743	744.655	743.111
162.5	766.269	761.638	765.240	762.152	761.123
165.0	780.678	777.076	779.135	777.591	777.076
167.5	793.544	790.456	792.000	790.971	790.971
170.0	804.351	802.292	803.322	802.292	802.292
172.5	812.070	812.070	811.556	811.556	811.556
175.0	818.246	818.246	818.246	817.731	818.246
177.5	821.848	822.362	822.362	822.362	822.362
180.0	823.392	823.392	823.392	823.392	823.392

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	404.31	N.A.	8.00
0-30	843.24	N.A.	16.80
0-40	1352.22	N.A.	26.90
0-60	2301.11	N.A.	45.70
0-80	2823.45	N.A.	56.10
0-90	2882.59	N.A.	57.30
10-90	2776.81	N.A.	55.20
20-40	947.90	N.A.	18.80
20-50	1454.95	N.A.	28.90
40-70	1278.35	N.A.	25.40
60-80	522.34	N.A.	10.40
70-80	192.88	N.A.	3.80
80-90	59.14	N.A.	1.20
90-110	188.78	N.A.	3.80
90-120	436.69	N.A.	8.70
90-130	769.27	N.A.	15.30
90-150	1529.52	N.A.	30.40
90-180	2151.23	N.A.	42.70
110-180	1962.45	N.A.	39.00
0-180	5033.83	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	44.11
100-110	144.67
110-120	247.91
120-130	332.57
130-140	380.47
140-150	379.79
150-160	324.73
160-170	219.37
170-180	77.61

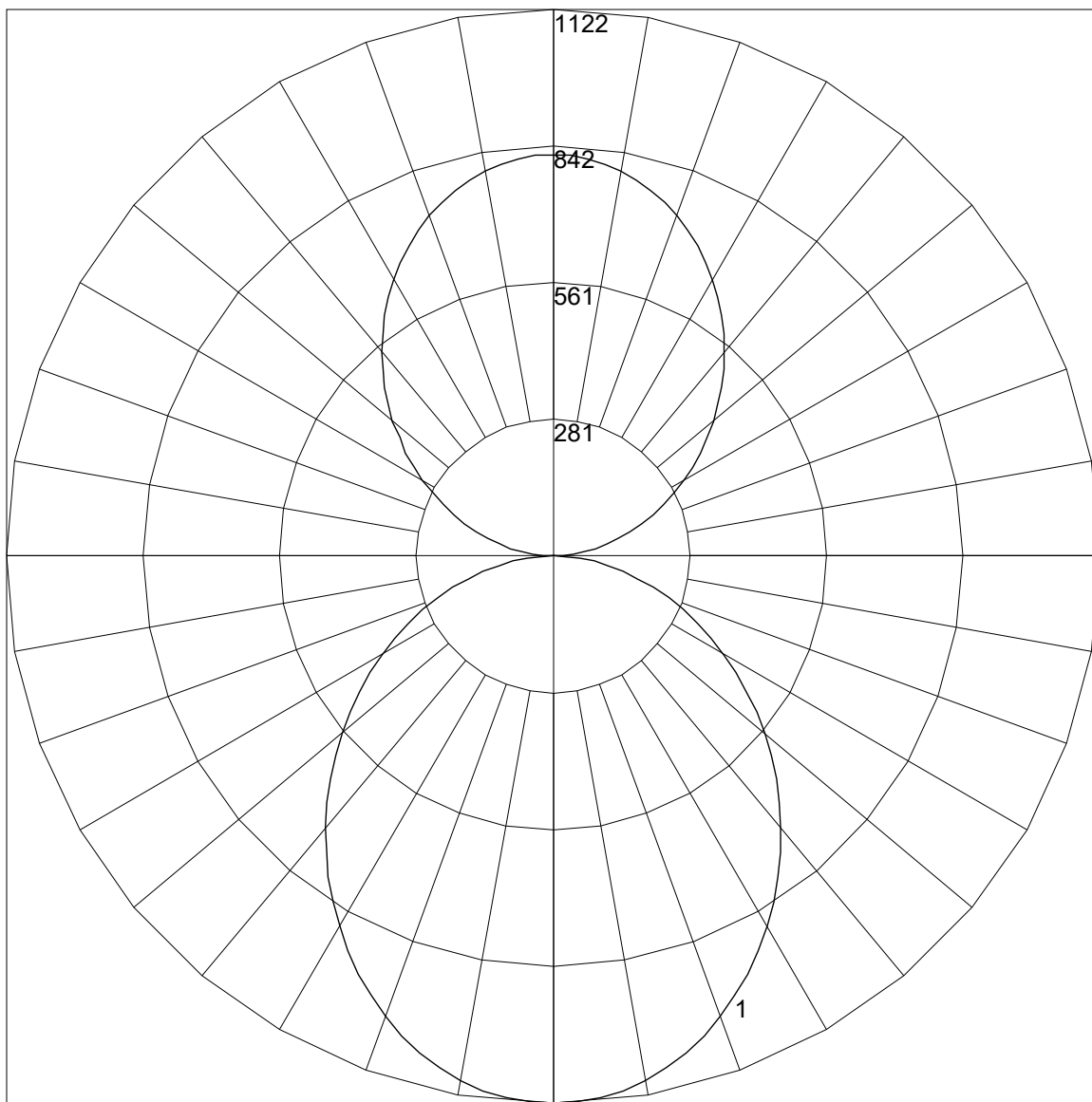
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63	57
1	99	95	91	87	92	89	85	82	77	74	72	66	64	62	55	54	53	48
2	90	83	77	71	84	77	72	67	67	63	59	58	54	52	49	46	45	40
3	83	73	65	59	77	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	56	50	70	60	53	48	53	47	43	45	41	38	39	35	33	29
5	69	58	49	43	64	54	47	41	47	41	37	41	36	33	35	31	28	25
6	64	52	43	38	59	49	41	36	42	37	32	37	32	29	32	28	25	22
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	22	20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	16	15

POLAR GRAPH



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