

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-H-B-835-ITL85125.008.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85125.008 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/06/15
[ISSUEDATE]02/09/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-ID-4ft-H-B-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 46.9 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 48.9 WATTS
[ABSOLUTE]LUMENS]5159
[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	5159
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	46.9
Ballast Factor	1.00
CIE Type	Semi-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	5205	5132	5041
55	4833	4758	4661
65	4410	4349	4278
75	3857	3857	3841
85	3195	3343	3441

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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	742.597	742.596	742.596	742.596	742.596
2.5	741.053	741.053	741.053	741.053	741.053
5.0	737.450	737.965	737.965	737.450	737.965
7.5	732.304	732.819	732.304	731.275	732.304
10.0	725.099	723.556	724.070	724.070	723.041
12.5	716.351	713.778	714.292	714.292	711.719
15.0	704.000	699.883	702.456	701.427	697.825
17.5	690.620	684.959	687.532	686.503	682.901
20.0	674.667	668.491	670.550	669.006	665.404
22.5	657.170	650.480	652.023	649.965	646.362
25.0	637.614	630.409	631.953	629.895	625.778
27.5	616.515	609.310	610.339	607.766	604.164
30.0	593.871	586.667	587.181	584.608	580.491
32.5	570.199	564.538	564.023	560.421	556.819
35.0	546.526	540.351	539.836	535.205	532.117
37.5	520.795	514.620	515.135	509.474	506.386
40.0	495.064	489.918	489.404	483.743	480.655
42.5	470.363	463.673	462.129	457.497	454.409
45.0	442.058	437.427	435.883	431.252	428.164
47.5	414.784	410.152	409.123	404.491	401.404
50.0	387.509	383.392	381.848	377.216	374.643
52.5	360.234	356.117	355.602	350.456	347.883
55.0	332.959	329.357	327.813	323.181	321.123
57.5	305.170	302.082	300.538	296.421	294.363
60.0	278.409	274.807	273.778	270.175	268.632
62.5	250.620	247.532	246.503	243.415	242.386
65.0	223.860	221.286	220.772	218.199	217.170
67.5	196.585	195.041	194.526	192.468	191.439
70.0	170.339	169.310	169.310	167.766	166.737
72.5	144.608	145.123	144.094	144.608	143.064
75.0	119.906	120.421	119.906	120.421	119.392
77.5	96.234	96.749	97.778	97.778	97.778
80.0	74.105	74.620	75.649	76.164	76.164
82.5	54.035	54.550	55.064	55.579	55.579
85.0	33.450	34.480	34.994	35.509	36.023
87.5	14.409	15.439	15.953	17.497	17.497
90.0	0.000	0.000	0.000	0.000	0.000
92.5	23.333	24.889	26.444	29.556	30.333
95.0	55.222	56.000	59.111	63.000	63.778
97.5	89.444	90.222	94.111	98.000	97.222
100.0	124.444	126.000	129.889	133.778	133.000
102.5	160.222	163.333	167.222	171.111	171.111
105.0	199.889	203.000	206.889	210.000	209.222
107.5	241.889	244.222	246.556	249.667	249.667
110.0	287.000	287.000	289.333	292.445	291.667
112.5	332.111	330.555	333.667	338.333	334.445
115.0	377.222	375.667	377.222	381.111	378.000
117.5	422.333	423.111	423.889	424.667	422.333
120.0	468.222	469.778	469.000	468.222	466.667
122.5	514.889	516.444	516.444	514.111	511.778
125.0	562.333	564.667	564.667	560.000	557.667
127.5	609.778	611.333	612.889	605.889	601.222
130.0	655.667	656.444	658.000	653.333	649.444
132.5	702.333	701.556	702.333	699.222	694.556

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CANDELA TABULATION - (Cont.)

135.0	749.000	745.111	747.444	745.111	739.667
137.5	794.111	787.889	791.778	788.667	783.222
140.0	839.222	832.222	836.889	833.778	827.556
142.5	880.444	875.000	880.444	875.778	870.333
145.0	924.778	915.444	921.667	917.000	911.556
147.5	964.444	955.111	961.333	956.667	951.222
150.0	1003.333	993.222	999.444	994.778	990.111
152.5	1037.555	1029.778	1036.000	1030.555	1026.667
155.0	1071.000	1063.222	1068.667	1064.000	1060.111
157.5	1103.667	1095.889	1100.555	1095.889	1092.778
160.0	1131.667	1125.445	1130.111	1125.445	1123.111
162.5	1158.111	1151.111	1156.555	1151.889	1150.333
165.0	1179.889	1174.445	1177.555	1175.222	1174.445
167.5	1199.333	1194.667	1197.000	1195.445	1195.445
170.0	1215.667	1212.555	1214.111	1212.555	1212.555
172.5	1227.333	1227.333	1226.555	1226.555	1226.555
175.0	1236.667	1236.667	1236.667	1235.889	1236.667
177.5	1242.111	1242.889	1242.889	1242.889	1242.889
180.0	1244.445	1244.445	1244.445	1244.445	1244.445

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	267.52	N.A.	5.20
0-30	557.93	N.A.	10.80
0-40	894.70	N.A.	17.30
0-60	1522.54	N.A.	29.50
0-80	1868.15	N.A.	36.20
0-90	1907.28	N.A.	37.00
10-90	1837.29	N.A.	35.60
20-40	627.19	N.A.	12.20
20-50	962.67	N.A.	18.70
40-70	845.83	N.A.	16.40
60-80	345.61	N.A.	6.70
70-80	127.62	N.A.	2.50
80-90	39.13	N.A.	0.80
90-110	285.32	N.A.	5.50
90-120	660.00	N.A.	12.80
90-130	1162.64	N.A.	22.50
90-150	2311.66	N.A.	44.80
90-180	3251.3	N.A.	63.00
110-180	2965.98	N.A.	57.50
0-180	5158.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.99
10-20	197.53
20-30	290.42
30-40	336.77
40-50	335.49
50-60	292.35
60-70	217.99
70-80	127.62
80-90	39.13
90-100	66.67
100-110	218.65
110-120	374.68
120-130	502.64
130-140	575.02
140-150	574.00
150-160	490.79
160-170	331.54
170-180	117.30

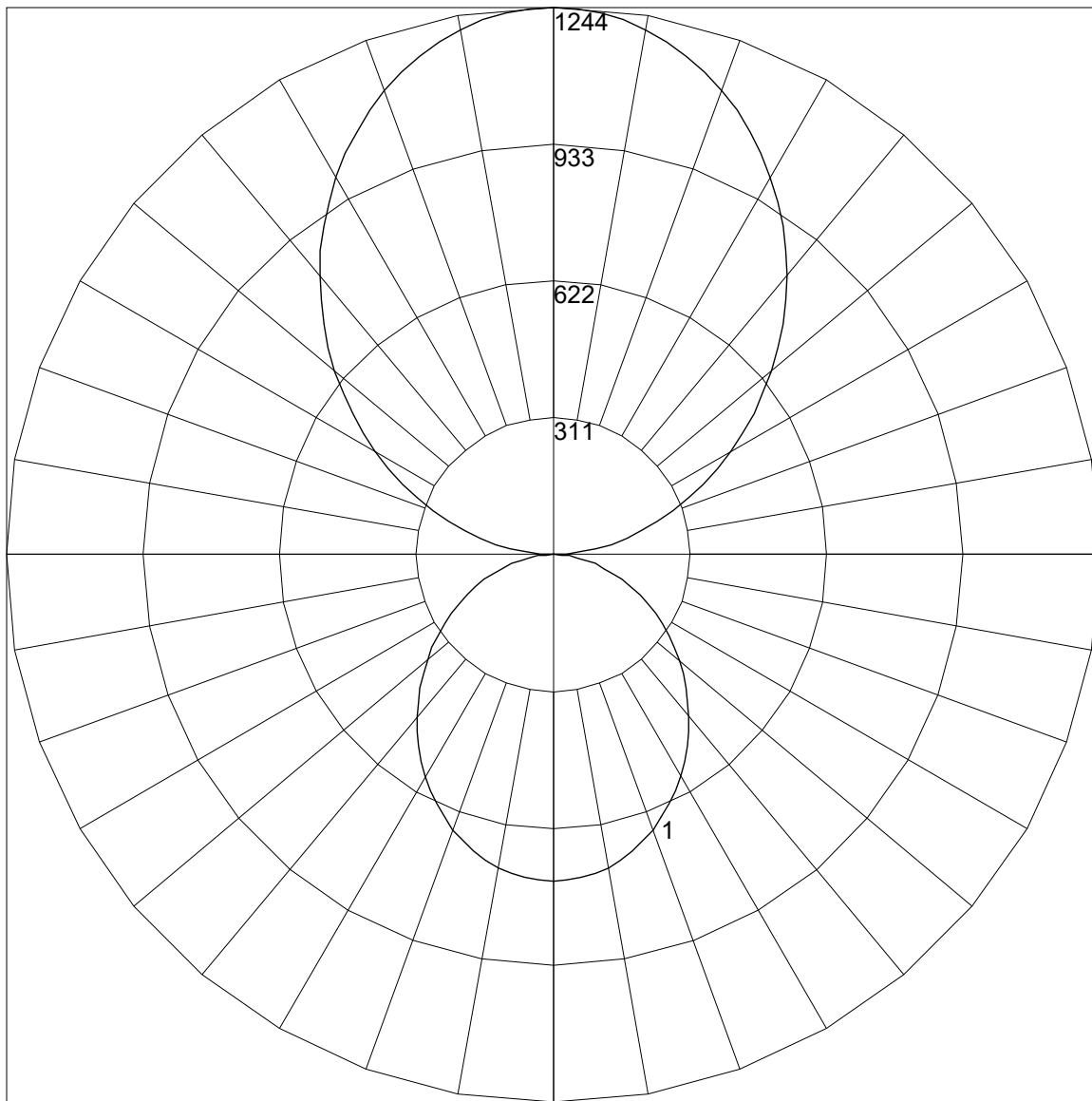
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	33	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	28	29	25	22	22	20	18	14
7	56	44	36	31	51	40	33	29	33	28	24	26	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	19	16	14	11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10
10	45	33	26	22	41	31	24	20	25	21	17	20	17	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 1244.445 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)