

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-S-835-ITL85125.010.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85125.010 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/06/15
[ISSUE DATE]02/09/17
[MANUFACTURER]FINELITE, INC.
[LUMCAT]FINELITE HP-4-ID-4ft-B-S-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 33.0 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 35.7 WATTS
[ABSOLUTE LUMENS]3668
[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	3668
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	33
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	4140	4082	4010
55	3844	3785	3708
65	3508	3460	3403
75	3068	3068	3055
85	2542	2659	2737

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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	590.702	590.702	590.702	590.702	590.702
2.5	589.474	589.474	589.474	589.474	589.474
5.0	586.608	587.018	587.018	586.608	587.018
7.5	582.515	582.924	582.515	581.696	582.515
10.0	576.784	575.556	575.965	575.965	575.146
12.5	569.825	567.778	568.187	568.187	566.140
15.0	560.000	556.725	558.772	557.953	555.088
17.5	549.357	544.854	546.901	546.082	543.216
20.0	536.667	531.754	533.392	532.164	529.298
22.5	522.749	517.427	518.655	517.018	514.152
25.0	507.193	501.462	502.690	501.053	497.778
27.5	490.409	484.678	485.497	483.450	480.585
30.0	472.398	466.667	467.076	465.029	461.754
32.5	453.567	449.064	448.655	445.789	442.924
35.0	434.737	429.825	429.415	425.731	423.275
37.5	414.269	409.357	409.766	405.263	402.807
40.0	393.801	389.708	389.298	384.795	382.339
42.5	374.152	368.830	367.602	363.918	361.462
45.0	351.637	347.953	346.725	343.041	340.585
47.5	329.942	326.257	325.439	321.754	319.298
50.0	308.246	304.971	303.743	300.058	298.012
52.5	286.550	283.275	282.865	278.772	276.725
55.0	264.854	261.988	260.760	257.076	255.439
57.5	242.749	240.292	239.064	235.790	234.152
60.0	221.462	218.596	217.778	214.912	213.684
62.5	199.357	196.901	196.082	193.626	192.807
65.0	178.070	176.023	175.614	173.567	172.749
67.5	156.374	155.146	154.737	153.099	152.281
70.0	135.497	134.678	134.678	133.450	132.632
72.5	115.029	115.439	114.620	115.029	113.801
75.0	95.380	95.790	95.380	95.790	94.971
77.5	76.550	76.959	77.778	77.778	77.778
80.0	58.947	59.357	60.175	60.585	60.585
82.5	42.983	43.392	43.801	44.211	44.211
85.0	26.608	27.427	27.836	28.246	28.655
87.5	11.462	12.281	12.690	13.918	13.918
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	212.80	N.A.	5.80
0-30	443.81	N.A.	12.10
0-40	711.69	N.A.	19.40
0-60	1211.11	N.A.	33.00
0-80	1486.02	N.A.	40.50
0-90	1517.15	N.A.	41.40
10-90	1461.48	N.A.	39.80
20-40	498.90	N.A.	13.60
20-50	765.76	N.A.	20.90
40-70	672.82	N.A.	18.30
60-80	274.92	N.A.	7.50
70-80	101.52	N.A.	2.80
80-90	31.13	N.A.	0.80
90-110	188.78	N.A.	5.10
90-120	436.69	N.A.	11.90
90-130	769.27	N.A.	21.00
90-150	1529.52	N.A.	41.70
90-180	2151.23	N.A.	58.60
110-180	1962.45	N.A.	53.50
0-180	3668.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.67
10-20	157.12
20-30	231.01
30-40	267.88
40-50	266.86
50-60	232.55
60-70	173.40
70-80	101.52
80-90	31.13
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

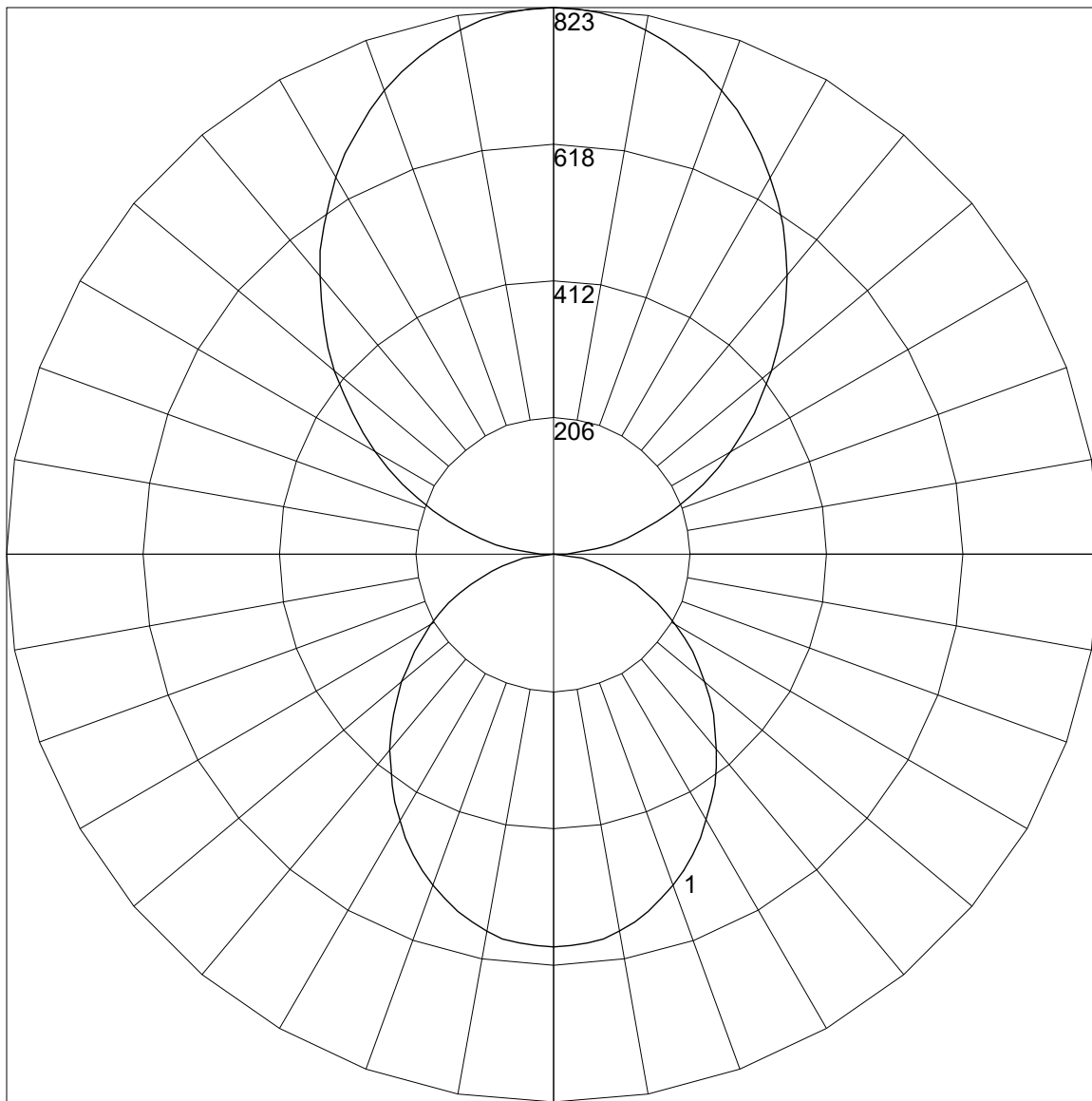
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41
1	96	92	88	84	87	84	80	77	69	66	64	55	54	52	42	41	41	35
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	36	34	29
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	30	27	25	21
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22	18
6	61	50	42	36	56	46	38	33	38	33	29	31	27	24	24	21	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15	13
9	49	37	30	25	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	10

POLAR GRAPH



Maximum Candela = 823.392 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)