

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-H-835-WSO-ITL89033.603.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033.603 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/27/17

[ISSUEDATE]03/08/17

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-I-4ft-H-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 28.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 28.9 WATTS

[OTHER]see www.finelite.com for source file ITL89033. 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

[_ABSOLUTE]LUMENS]3346

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	28.2
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>
0.0	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	12.444	21.777	23.333	23.333	23.333
95.0	34.999	62.221	63.777	49.777	49.777
97.5	61.443	105.776	163.330	101.887	88.665
100.0	92.554	144.664	258.995	191.330	150.108
102.5	129.887	176.552	382.660	296.328	241.107
105.0	164.108	210.774	477.547	458.103	367.105
107.5	199.108	244.996	521.102	670.432	563.879
110.0	232.551	276.884	542.101	846.985	807.319
112.5	266.773	307.995	566.990	920.095	968.316
115.0	299.439	337.550	608.989	942.650	1028.982
117.5	325.883	364.771	642.433	953.539	1051.537
120.0	349.994	391.215	664.210	996.316	1067.870
122.5	370.993	416.881	678.210	1049.204	1118.424
125.0	391.215	439.437	688.321	1077.981	1177.535
127.5	409.882	459.658	696.099	1078.759	1208.645
130.0	425.437	477.547	702.321	1060.092	1203.201
132.5	441.770	494.658	707.765	1034.426	1174.423

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

135.0	457.325	510.213	711.654	1006.426	1137.091
137.5	472.103	524.213	713.209	976.094	1094.314
140.0	487.658	537.435	713.987	945.761	1049.204
142.5	503.213	549.879	713.209	913.873	1004.093
145.0	519.546	562.323	709.321	884.318	959.761
147.5	532.768	572.434	703.876	854.763	916.984
150.0	546.768	582.545	698.432	825.985	878.095
152.5	560.768	591.101	692.210	797.986	842.318
155.0	573.212	599.656	685.988	771.542	806.541
157.5	584.878	606.656	678.210	747.431	774.653
160.0	595.767	613.656	671.988	725.654	745.876
162.5	605.100	619.100	664.210	705.432	720.987
165.0	614.433	623.767	657.210	687.543	699.210
167.5	621.433	627.655	650.988	671.988	680.543
170.0	626.878	631.544	646.322	659.544	664.210
172.5	630.767	633.878	642.433	649.433	652.544
175.0	634.655	635.433	638.544	641.655	643.989
177.5	636.211	636.211	636.989	637.766	637.766
180.0	636.989	636.989	636.989	636.989	636.989

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-I-4FT-H-835-WSO-ITL89033.603.IES****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	452.25	N.A.	13.50
90-120	1077.31	N.A.	32.20
90-130	1740.03	N.A.	52.00
90-150	2779.74	N.A.	83.10
90-180	3346.01	N.A.	100.00
110-180	2893.75	N.A.	86.50
0-180	3346.01	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	75.36
100-110	376.89
110-120	625.05
120-130	662.72
130-140	584.81
140-150	454.90
150-160	318.48
160-170	186.58
170-180	61.20

IES INDOOR REPORT

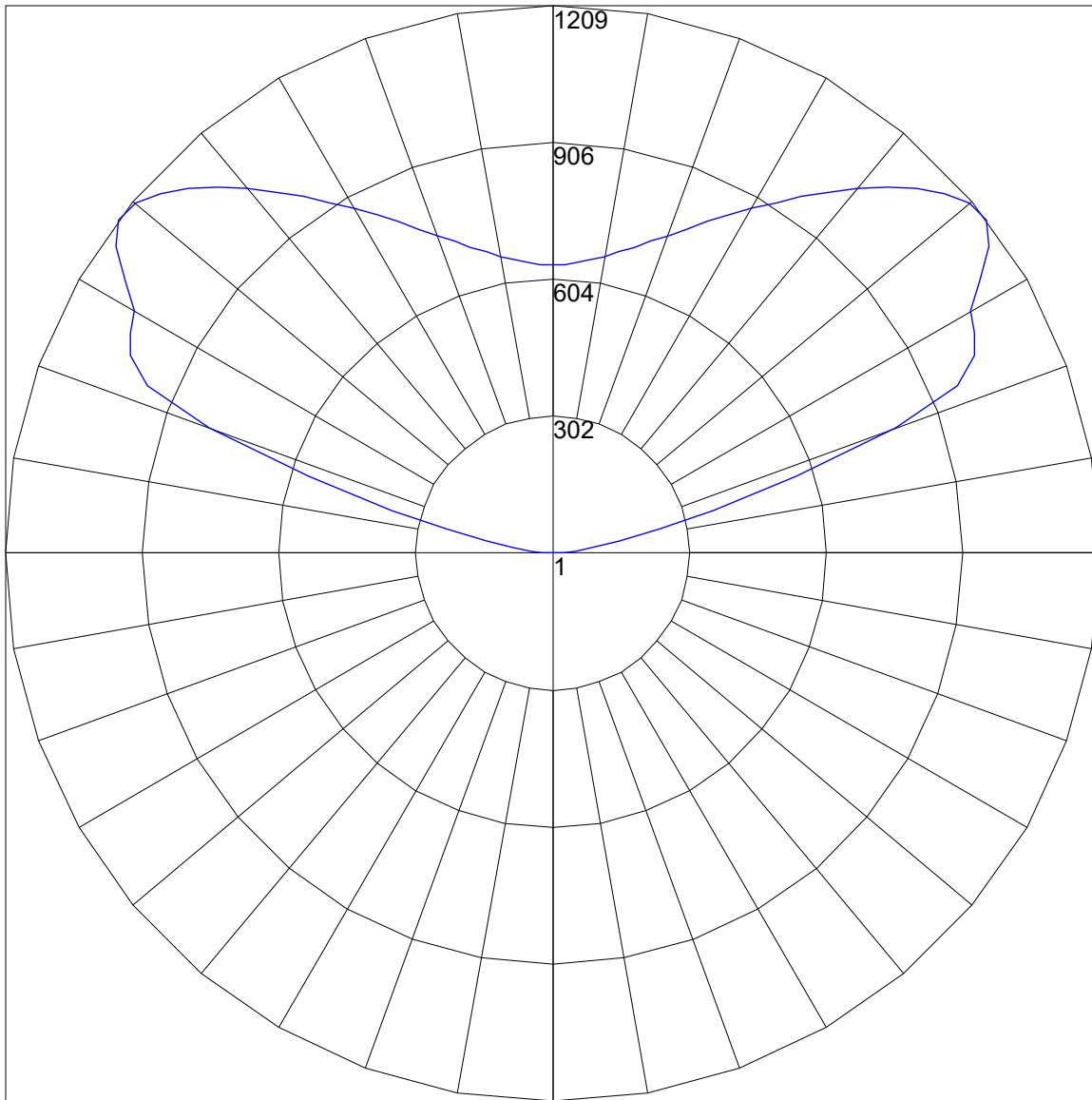
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 1208.645 Located At Horizontal Angle = 90, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)