

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-2-I-4FT-H-835-WSO-ITL89456.018.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456.018 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]08/23/17

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-I-4ft-H-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 27.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 28.8 WATTS

[OTHER]see www.finelite.com for source file ITL89456. 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]3125

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3125
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	27.8
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)	0.18 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	14.000	24.111	24.111	23.333	23.333
95.0	36.555	64.554	64.554	53.666	52.888
97.5	61.443	105.776	129.886	93.332	87.887
100.0	87.109	137.664	258.217	150.108	132.220
102.5	115.109	167.997	356.993	265.217	210.774
105.0	142.331	200.663	413.770	432.436	356.215
107.5	169.552	232.551	448.769	583.322	543.656
110.0	196.774	262.106	479.880	671.987	678.987
112.5	223.996	290.883	516.434	730.319	759.874
115.0	251.995	318.105	559.989	772.318	815.095
117.5	279.995	345.327	607.433	811.984	857.872
120.0	307.994	374.104	646.321	853.983	900.649
122.5	333.660	398.214	674.320	913.093	945.759
125.0	357.771	421.547	689.875	977.648	1010.314
127.5	380.326	443.325	699.209	1021.202	1081.868
130.0	398.992	461.991	704.653	1039.091	1133.200
132.5	417.659	479.102	706.208	1032.091	1149.533

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-I-4FT-H-835-WSO-ITL89456.018.IES****CANDELA TABULATION - (Cont.)**

135.0	433.991	493.101	705.431	1010.314	1133.200
137.5	448.769	506.324	703.097	980.759	1098.978
140.0	463.546	517.990	699.209	948.093	1055.424
142.5	477.546	528.879	693.764	911.538	1008.758
145.0	492.324	538.990	688.320	876.538	961.315
147.5	504.768	546.767	682.098	840.761	913.093
150.0	517.212	555.322	674.320	808.873	867.983
152.5	528.879	561.545	664.987	778.540	825.984
155.0	539.767	566.211	655.654	748.985	787.096
157.5	549.878	572.433	647.098	721.764	752.096
160.0	558.433	576.322	636.987	695.320	719.430
162.5	566.211	579.433	626.877	672.765	689.098
165.0	572.433	582.544	616.766	650.987	663.432
167.5	577.878	584.878	608.988	632.321	640.876
170.0	582.544	587.211	603.544	617.543	622.988
172.5	584.878	588.766	597.322	605.099	609.766
175.0	587.989	589.544	593.433	597.322	598.877
177.5	589.544	589.544	591.100	591.100	591.877
180.0	590.322	590.322	590.322	590.322	590.322

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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	408.94	N.A.	13.10
90-120	948.47	N.A.	30.40
90-130	1565.22	N.A.	50.10
90-150	2586.48	N.A.	82.80
90-180	3124.9	N.A.	100.00
110-180	2715.96	N.A.	86.90
0-180	3124.9	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	71.33
100-110	337.61
110-120	539.53
120-130	616.75
130-140	576.43
140-150	444.83
150-160	305.77
160-170	175.72
170-180	56.93

IES INDOOR REPORT

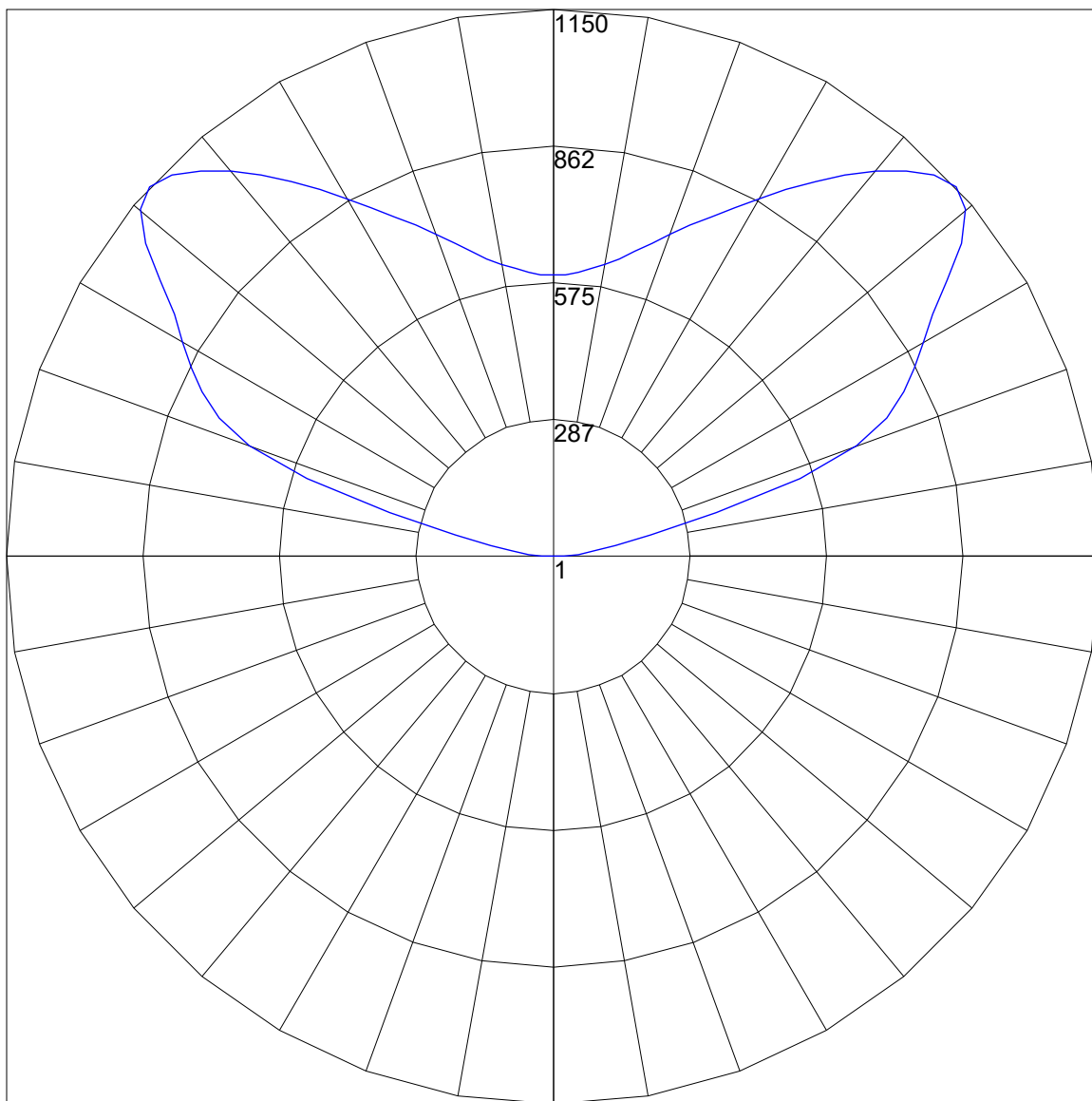
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1149.533 Located At Horizontal Angle = 90, Vertical Angle = 132.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)