

# 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-WW-D-FO-4FT-H-8-35-ITL85138.003.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]ITL85138.003 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]08/15/15  
[ISSUEDATE]04/26/16  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HP-2-WW-D-FO-4ft-H-8-35  
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 15.1 WATTS  
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 17.7 WATTS  
[ABSOLUTE]LUMENS]1383  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85138. 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](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	1383
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	15.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.14 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11545	12722	10178
55	6948	10344	8840
65	3905	6791	7529
75	3275	3964	6090
85	2559	3242	4606

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	650.222	650.222	650.222	650.222	650.222	650.222	650.222	650.222	650.222
2.5	667.333	666.556	663.444	657.222	649.444	641.667	635.444	630.778	630.000
5.0	682.111	680.556	672.778	661.889	647.111	631.556	618.333	608.222	605.111
7.5	692.222	690.667	680.556	664.222	642.444	619.111	598.111	582.556	576.333
10.0	700.778	697.667	684.444	662.667	637.000	604.333	575.556	552.222	543.667
12.5	706.222	702.333	686.778	661.111	630.000	587.222	550.667	521.111	509.444
15.0	707.778	703.889	686.000	655.667	620.667	567.778	521.889	486.111	472.111
17.5	707.000	703.111	683.667	649.444	609.000	546.778	493.889	451.889	434.000
20.0	701.556	697.667	678.222	640.111	595.778	525.000	462.778	415.333	395.111
22.5	694.556	689.889	670.444	630.000	581.778	501.667	431.667	378.778	357.000
25.0	682.889	679.000	659.556	617.556	563.889	476.778	398.222	343.000	322.778
27.5	666.556	664.222	646.333	602.778	546.000	451.111	367.889	310.333	290.111
30.0	649.444	645.556	630.000	585.667	525.000	424.667	336.778	280.000	261.333
32.5	626.889	625.333	610.556	567.778	503.222	398.222	308.000	252.778	234.889
35.0	598.111	598.889	588.000	547.556	479.889	371.778	281.556	228.667	212.333
37.5	564.667	569.333	563.111	525.000	455.778	346.111	255.889	206.889	192.889
40.0	525.778	533.556	535.889	500.889	430.111	319.667	232.556	187.444	175.000
42.5	476.000	492.333	504.000	474.444	402.889	294.778	211.556	170.333	159.444
45.0	427.000	445.667	470.556	446.444	376.444	271.444	191.333	154.778	146.222
47.5	367.889	394.333	434.000	416.111	348.444	247.333	173.444	140.000	133.000
50.0	310.333	340.667	394.333	385.778	321.222	224.778	156.333	127.556	122.111
52.5	256.667	290.111	353.111	353.111	292.444	203.000	140.000	115.889	111.222
55.0	208.444	239.556	310.333	321.222	265.222	182.000	125.222	105.000	101.111
57.5	166.444	194.444	267.556	288.556	240.333	161.778	112.000	94.889	91.778
60.0	133.000	153.222	225.556	256.667	214.667	143.111	98.778	85.556	82.444
62.5	106.556	121.333	185.889	225.556	190.556	123.667	87.111	76.222	73.889
65.0	86.333	97.222	150.111	196.000	166.444	107.333	75.444	66.889	65.333
67.5	71.556	78.556	119.000	166.444	143.889	91.000	64.556	58.333	56.000
70.0	60.667	64.556	91.778	139.222	122.111	76.222	55.222	49.000	46.667
72.5	52.111	53.667	70.778	113.556	101.889	62.222	45.889	40.444	39.667
75.0	44.333	45.111	53.667	88.667	82.444	49.000	36.556	33.444	32.667
77.5	36.556	36.556	41.222	66.111	64.556	36.556	28.778	27.222	26.444
80.0	29.556	29.556	31.889	45.889	49.000	26.444	21.778	21.000	20.222
82.5	21.778	21.778	22.556	28.778	34.222	16.333	14.778	14.778	14.000
85.0	11.667	12.444	14.778	16.333	21.000	10.111	9.333	9.333	9.333
87.5	6.222	7.000	7.000	7.000	9.333	3.889	3.889	3.889	3.889
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HP-2-WW-D-FO-4FT-H-8-35-ITL85138.003.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	231.10	N.A.	16.70
0-30	474.99	N.A.	34.30
0-40	748.34	N.A.	54.10
0-60	1193.4	N.A.	86.30
0-80	1367.96	N.A.	98.90
0-90	1383.17	N.A.	100.00
10-90	1322.06	N.A.	95.60
20-40	517.24	N.A.	37.40
20-50	771.20	N.A.	55.80
40-70	562.11	N.A.	40.60
60-80	174.57	N.A.	12.60
70-80	57.51	N.A.	4.20
80-90	15.21	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1383.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	61.11
10-20	169.99
20-30	243.89
30-40	273.35
40-50	253.96
50-60	191.09
60-70	117.06
70-80	57.51
80-90	15.21
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

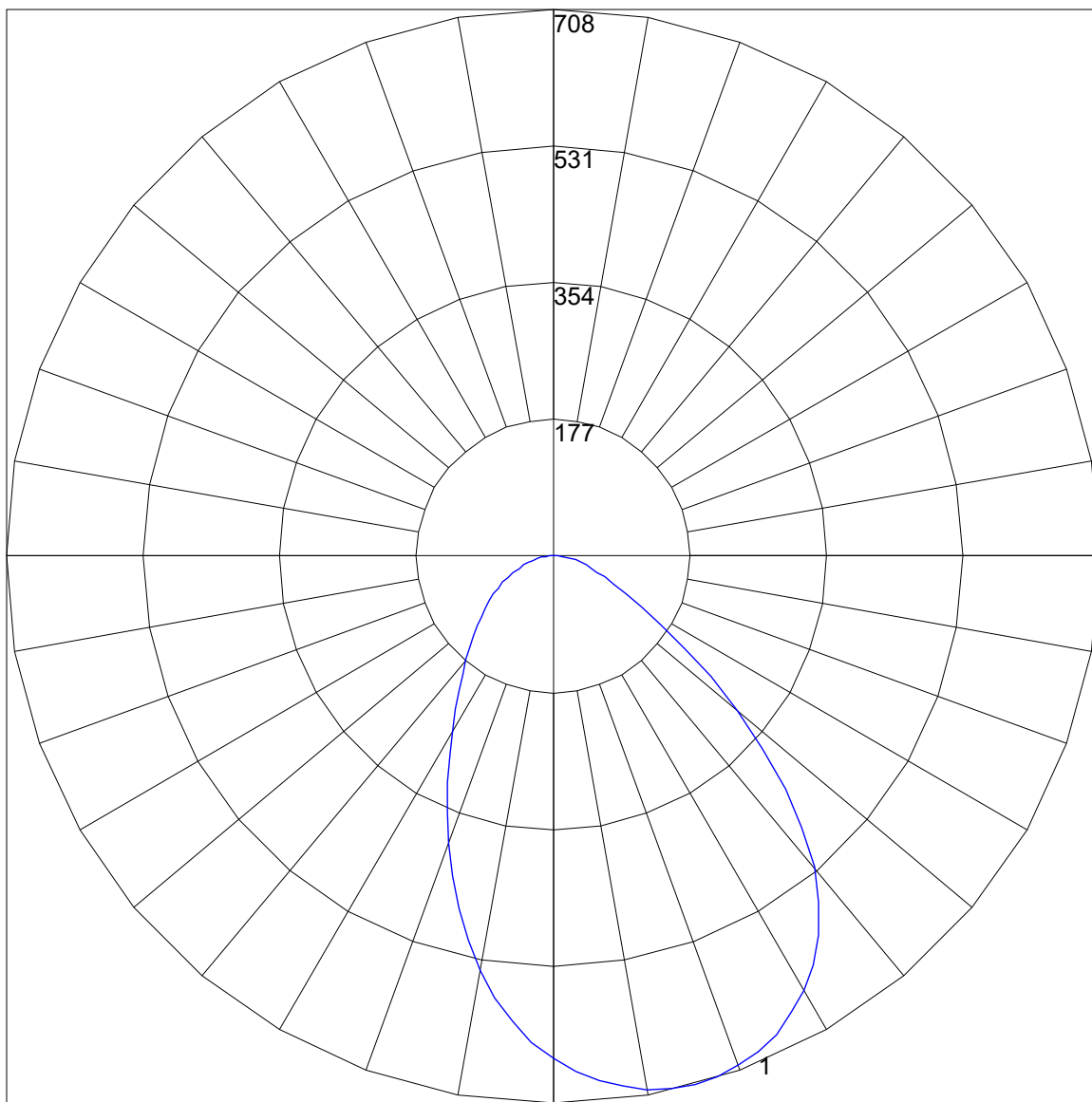
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	68	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

POLAR GRAPH



Maximum Candela = 707.778 Located At Horizontal Angle = 0, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)