

# 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-WW-D-FO-4FT-B-8TW-ITL85131.902.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85131.902 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/10/15

[ISSUEDATE]02/10/17

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-WW-D-FO-4ft-B-8TW

[OTHER]ies file is based on 3500K; see luminaire tech sheet at [www.finelite.com](http://www.finelite.com) for lumen adjustment factors for other CCT's & CRI

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 11.2 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 13.9 WATTS

[ABSOLUTE]LUMENS]1029

[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85131. 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	1029
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	11.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.94
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.27 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	6639	5873	2969
55	6564	5816	2690
65	6733	5609	2381
75	6059	5724	2072
85	3810	3927	1817

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : HP-4-WW-D-FO-4FT-B-8TW-ITL85131.902.IES

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	358.690	358.690	358.690	358.690	358.690	358.690	358.690	358.690	358.690
2.5	377.731	376.187	371.041	363.322	359.719	348.398	345.825	341.708	337.591
5.0	396.257	393.170	383.392	370.012	358.175	339.135	328.842	321.123	315.462
7.5	412.725	408.608	395.228	375.158	355.602	328.842	311.860	298.994	292.819
10.0	429.193	423.018	405.006	378.760	352.000	317.520	293.848	277.380	269.146
12.5	444.117	437.427	414.269	381.333	347.368	305.684	275.836	255.251	246.503
15.0	460.070	451.322	422.503	382.877	341.708	293.333	257.310	233.637	223.860
17.5	473.965	463.673	429.708	382.363	335.018	280.468	239.298	212.538	201.216
20.0	487.345	475.509	436.398	381.333	327.813	266.573	221.287	191.953	181.146
22.5	499.181	485.287	442.058	378.760	319.064	252.678	204.304	172.912	162.105
25.0	509.988	494.035	446.175	375.158	309.287	238.269	186.807	154.901	144.094
27.5	518.737	501.240	449.263	371.041	299.509	224.374	170.339	138.433	128.140
30.0	525.427	506.386	450.807	365.895	288.702	210.480	154.901	123.509	113.731
32.5	528.000	509.474	450.807	359.719	276.351	196.070	141.006	109.614	100.351
35.0	524.912	508.959	449.263	353.029	264.515	182.690	127.626	97.263	88.515
37.5	518.737	502.784	446.175	345.310	252.164	168.795	114.760	85.942	77.708
40.0	508.444	493.006	441.029	336.561	238.784	155.415	101.895	75.135	67.930
42.5	494.035	480.140	431.766	326.784	224.889	143.064	91.088	65.871	58.667
45.0	472.936	462.129	418.386	315.977	211.509	130.713	80.281	57.123	50.433
47.5	449.778	440.515	402.947	304.140	197.099	118.363	70.503	48.889	43.228
50.0	425.591	415.813	384.421	291.789	183.205	107.041	61.240	41.170	36.023
52.5	402.433	391.111	361.778	278.409	169.310	95.719	52.491	34.480	29.848
55.0	379.275	366.924	336.047	262.971	155.415	84.912	44.257	27.789	23.673
57.5	359.205	345.310	310.316	248.047	141.520	74.105	37.053	22.129	18.012
60.0	335.532	322.152	285.614	231.064	127.626	64.327	30.363	16.468	13.380
62.5	313.404	298.994	261.942	212.023	114.246	55.064	23.673	11.836	8.749
65.0	286.643	274.807	238.784	191.439	101.380	45.801	17.497	7.205	4.632
67.5	259.368	250.105	216.655	170.339	89.544	37.053	11.836	3.602	1.544
70.0	230.035	222.830	195.041	148.725	76.678	29.333	6.690	1.544	1.544
72.5	196.585	193.497	172.912	129.170	64.842	21.614	2.573	1.544	1.029
75.0	157.988	160.047	149.240	109.614	54.035	14.409	1.544	1.029	1.029
77.5	116.304	122.480	124.023	93.661	43.228	8.234	1.544	1.029	1.029
80.0	77.708	83.368	95.205	77.193	33.450	2.573	1.029	1.029	1.029
82.5	50.947	52.491	62.784	59.696	24.702	1.029	1.029	0.515	0.515
85.0	33.450	32.936	34.480	40.655	15.953	1.029	0.515	0.515	0.515
87.5	15.953	15.953	15.439	17.497	8.234	0.515	0.515	0.515	0.515
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-4-WW-D-FO-4FT-B-8TW-ITL85131.902.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	129.91	N.A.	12.60
0-30	275.97	N.A.	26.80
0-40	454.89	N.A.	44.20
0-60	807.16	N.A.	78.40
0-80	1008.73	N.A.	98.00
0-90	1029.29	N.A.	100.00
10-90	995.49	N.A.	96.70
20-40	324.98	N.A.	31.60
20-50	511.49	N.A.	49.70
40-70	478.95	N.A.	46.50
60-80	201.57	N.A.	19.60
70-80	74.89	N.A.	7.30
80-90	20.56	N.A.	2.00
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	1029.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	33.79
10-20	96.12
20-30	146.06
30-40	178.92
40-50	186.51
50-60	165.76
60-70	126.67
70-80	74.89
80-90	20.56
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

# IES INDOOR REPORT

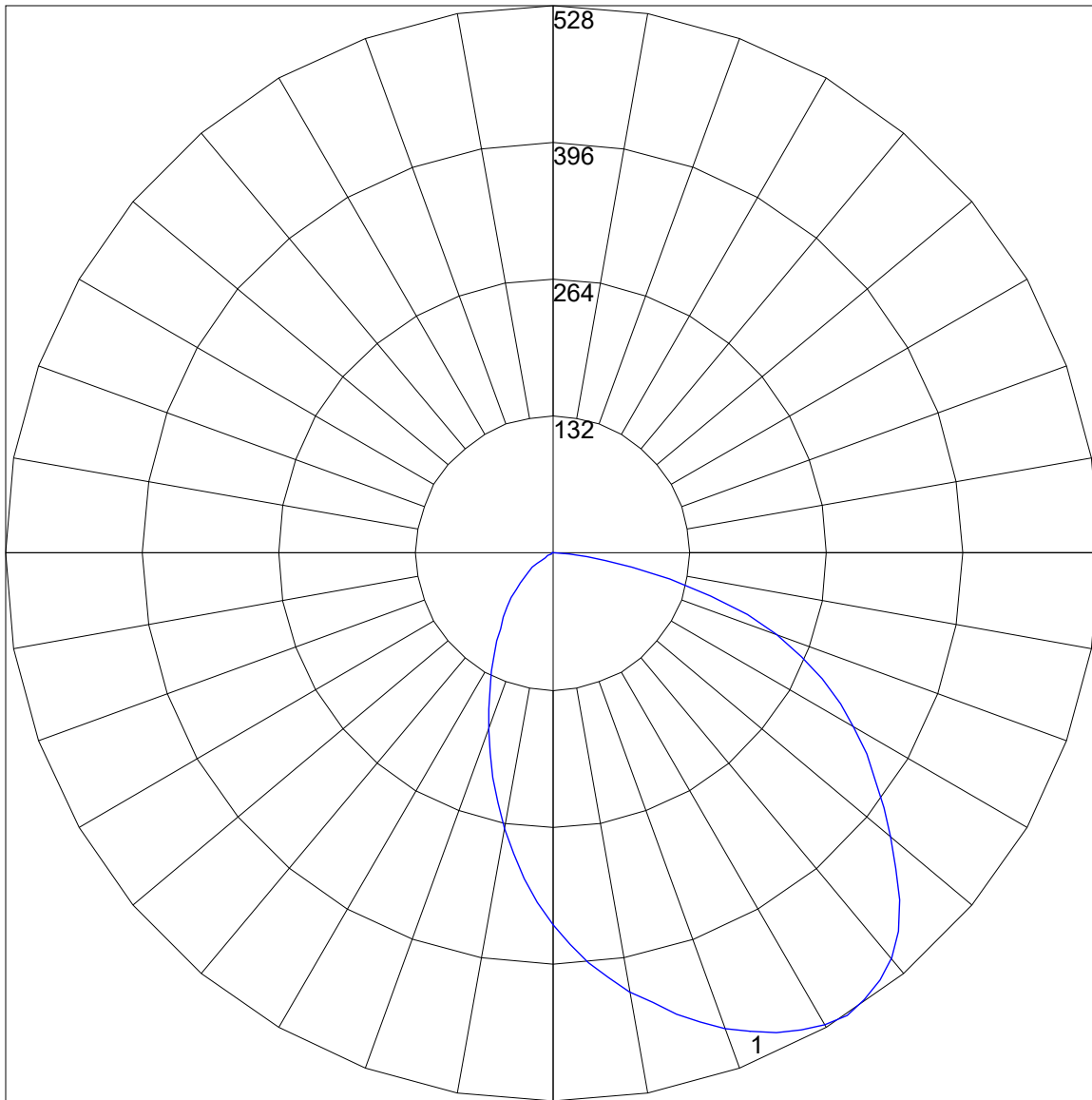
PHOTOMETRIC FILENAME : HP-4-WW-D-FO-4FT-B-8TW-ITL85131.902.IES

## 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	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 528 Located At Horizontal Angle = 0, Vertical Angle = 32.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)