

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-H-835-ITL85131.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85131.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/10/15
[ISSUE DATE]02/10/17
[MANUFACT]FINELITE, INC.
[LUMCAT]FINELITE HP-4-WW-D-FO-4ft-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 15.2 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 17.8 WATTS
[ABSOLUTE LUMENS]1556
[OTHER]see 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1556
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	15.2
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	10034	8877	4488
55	9920	8790	4065
65	10176	8477	3599
75	9158	8651	3132
85	5758	5935	2746

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	542.111	542.111	542.111	542.111	542.111	542.111	542.111	542.111	542.111
2.5	570.889	568.556	560.778	549.111	543.667	526.556	522.667	516.444	510.222
5.0	598.889	594.222	579.444	559.222	541.333	512.556	497.000	485.333	476.778
7.5	623.778	617.556	597.333	567.000	537.444	497.000	471.333	451.889	442.556
10.0	648.667	639.333	612.111	572.444	532.000	479.889	444.111	419.222	406.778
12.5	671.222	661.111	626.111	576.333	525.000	462.000	416.889	385.778	372.556
15.0	695.333	682.111	638.556	578.667	516.444	443.333	388.889	353.111	338.333
17.5	716.333	700.778	649.444	577.889	506.333	423.889	361.667	321.222	304.111
20.0	736.556	718.667	659.556	576.333	495.444	402.889	334.444	290.111	273.778
22.5	754.444	733.444	668.111	572.444	482.222	381.889	308.778	261.333	245.000
25.0	770.778	746.667	674.333	567.000	467.444	360.111	282.333	234.111	217.778
27.5	784.000	757.556	679.000	560.778	452.667	339.111	257.444	209.222	193.667
30.0	794.111	765.333	681.333	553.000	436.333	318.111	234.111	186.667	171.889
32.5	798.000	770.000	681.333	543.667	417.667	296.333	213.111	165.667	151.667
35.0	793.333	769.222	679.000	533.556	399.778	276.111	192.889	147.000	133.778
37.5	784.000	759.889	674.333	521.889	381.111	255.111	173.444	129.889	117.444
40.0	768.444	745.111	666.556	508.667	360.889	234.889	154.000	113.556	102.667
42.5	746.667	725.667	652.556	493.889	339.889	216.222	137.667	99.556	88.667
45.0	714.778	698.444	632.333	477.556	319.667	197.556	121.333	86.333	76.222
47.5	679.778	665.778	609.000	459.667	297.889	178.889	106.556	73.889	65.333
50.0	643.222	628.444	581.000	441.000	276.889	161.778	92.556	62.222	54.444
52.5	608.222	591.111	546.778	420.778	255.889	144.667	79.333	52.111	45.111
55.0	573.222	554.556	507.889	397.444	234.889	128.333	66.889	42.000	35.778
57.5	542.889	521.889	469.000	374.889	213.889	112.000	56.000	33.444	27.222
60.0	507.111	486.889	431.667	349.222	192.889	97.222	45.889	24.889	20.222
62.5	473.667	451.889	395.889	320.444	172.667	83.222	35.778	17.889	13.222
65.0	433.222	415.333	360.889	289.333	153.222	69.222	26.444	10.889	7.000
67.5	392.000	378.000	327.444	257.444	135.333	56.000	17.889	5.444	2.333
70.0	347.667	336.778	294.778	224.778	115.889	44.333	10.111	2.333	2.333
72.5	297.111	292.444	261.333	195.222	98.000	32.667	3.889	2.333	1.556
75.0	238.778	241.889	225.556	165.667	81.667	21.778	2.333	1.556	1.556
77.5	175.778	185.111	187.444	141.556	65.333	12.444	2.333	1.556	1.556
80.0	117.444	126.000	143.889	116.667	50.556	3.889	1.556	1.556	1.556
82.5	77.000	79.333	94.889	90.222	37.333	1.556	1.556	0.778	0.778
85.0	50.556	49.778	52.111	61.444	24.111	1.556	0.778	0.778	0.778
87.5	24.111	24.111	23.333	26.444	12.444	0.778	0.778	0.778	0.778
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-H-835-ITL85131.003.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	196.34	N.A.	12.60
0-30	417.08	N.A.	26.80
0-40	687.50	N.A.	44.20
0-60	1219.91	N.A.	78.40
0-80	1524.55	N.A.	98.00
0-90	1555.63	N.A.	100.00
10-90	1504.55	N.A.	96.70
20-40	491.16	N.A.	31.60
20-50	773.05	N.A.	49.70
40-70	723.86	N.A.	46.50
60-80	304.64	N.A.	19.60
70-80	113.19	N.A.	7.30
80-90	31.07	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	1555.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.07
10-20	145.27
20-30	220.74
30-40	270.41
40-50	281.89
50-60	250.52
60-70	191.45
70-80	113.19
80-90	31.07
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

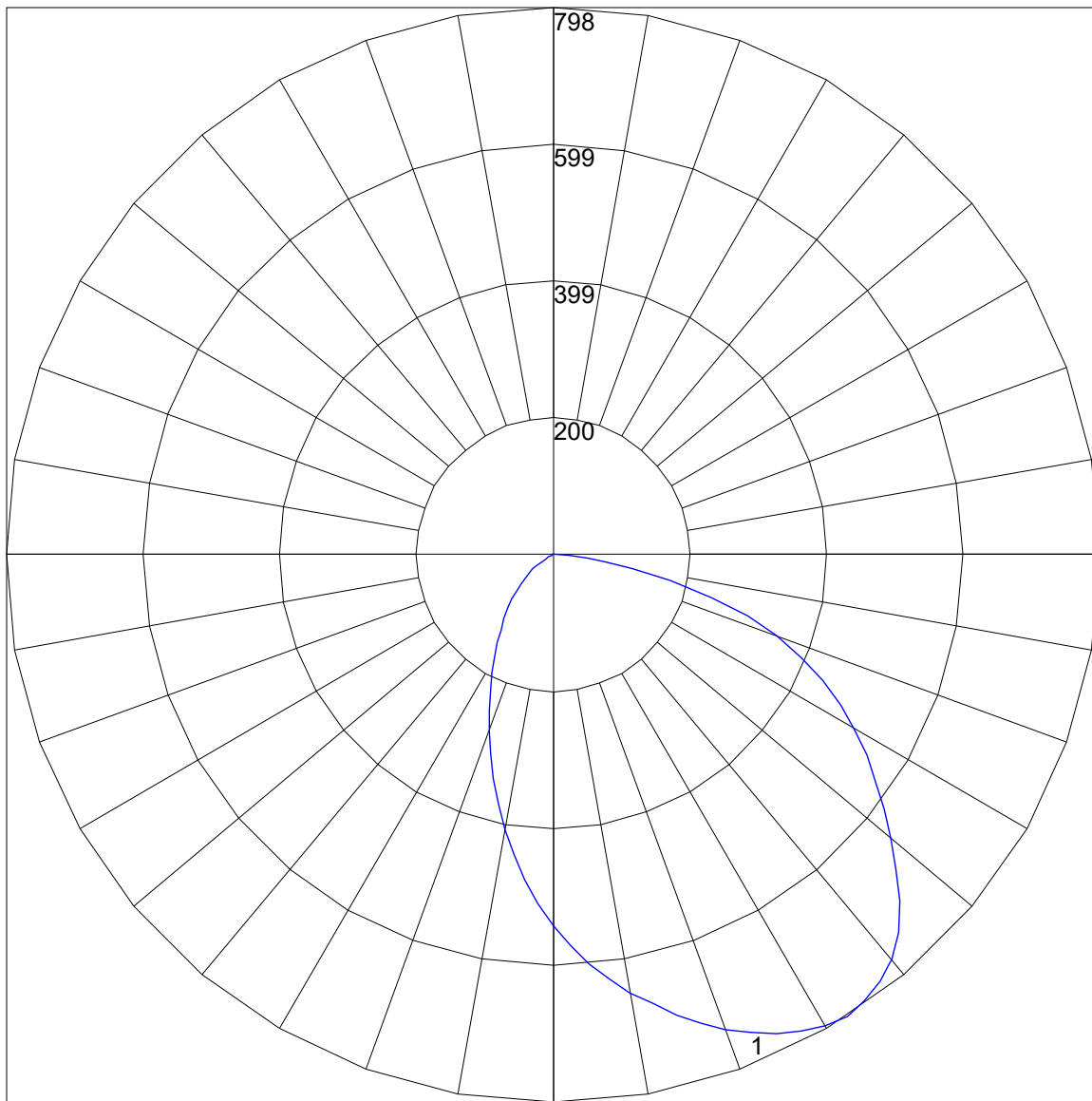
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	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	75	62	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	35	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 = 798 Located At Horizontal Angle = 0, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)