

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-S-8-35-ITL85138.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85138.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/15/15
[ISSUE DATE]04/21/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-2-WW-D-FO-4ft-S-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 8.1 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 10.2 WATTS
[ABSOLUTE LUMENS]728
[OTHER]see 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	728
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	8.1
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	6076	6696	5357
55	3657	5444	4653
65	2056	3574	3963
75	1724	2086	3205
85	1347	1706	2425

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	342.222	342.222	342.222	342.222	342.222	342.222	342.222	342.222	342.222
2.5	351.228	350.819	349.181	345.906	341.813	337.719	334.444	331.988	331.579
5.0	359.006	358.187	354.094	348.363	340.585	332.398	325.439	320.117	318.480
7.5	364.327	363.509	358.187	349.591	338.129	325.848	314.795	306.608	303.333
10.0	368.830	367.193	360.234	348.772	335.263	318.070	302.924	290.643	286.140
12.5	371.696	369.649	361.462	347.953	331.579	309.064	289.825	274.269	268.129
15.0	372.515	370.468	361.053	345.088	326.667	298.830	274.678	255.848	248.480
17.5	372.105	370.058	359.825	341.813	320.526	287.778	259.942	237.836	228.421
20.0	369.240	367.193	356.959	336.901	313.567	276.316	243.567	218.596	207.953
22.5	365.556	363.099	352.865	331.579	306.199	264.035	227.193	199.357	187.895
25.0	359.415	357.368	347.134	325.029	296.784	250.936	209.591	180.526	169.883
27.5	350.819	349.591	340.175	317.251	287.368	237.427	193.626	163.333	152.690
30.0	341.813	339.766	331.579	308.246	276.316	223.509	177.251	147.368	137.544
32.5	329.942	329.123	321.345	298.830	264.854	209.591	162.105	133.041	123.626
35.0	314.795	315.205	309.474	288.187	252.573	195.673	148.187	120.351	111.754
37.5	297.193	299.649	296.374	276.316	239.883	182.164	134.678	108.889	101.520
40.0	276.725	280.819	282.047	263.626	226.374	168.246	122.398	98.655	92.105
42.5	250.526	259.123	265.263	249.708	212.047	155.146	111.345	89.649	83.918
45.0	224.737	234.561	247.661	234.971	198.129	142.865	100.702	81.462	76.959
47.5	193.626	207.544	228.421	219.006	183.392	130.175	91.287	73.684	70.000
50.0	163.333	179.298	207.544	203.041	169.064	118.304	82.281	67.135	64.269
52.5	135.088	152.690	185.848	185.848	153.918	106.842	73.684	60.994	58.538
55.0	109.708	126.082	163.333	169.064	139.591	95.789	65.906	55.263	53.216
57.5	87.602	102.339	140.819	151.871	126.491	85.146	58.947	49.942	48.304
60.0	70.000	80.643	118.713	135.088	112.982	75.322	51.988	45.029	43.392
62.5	56.082	63.860	97.836	118.713	100.292	65.088	45.848	40.117	38.889
65.0	45.439	51.170	79.006	103.158	87.602	56.491	39.708	35.205	34.386
67.5	37.661	41.345	62.632	87.602	75.731	47.895	33.977	30.702	29.474
70.0	31.930	33.977	48.304	73.275	64.269	40.117	29.064	25.789	24.561
72.5	27.427	28.246	37.251	59.766	53.626	32.749	24.152	21.287	20.877
75.0	23.333	23.743	28.246	46.667	43.392	25.789	19.240	17.602	17.193
77.5	19.240	19.240	21.696	34.795	33.977	19.240	15.146	14.327	13.918
80.0	15.556	15.556	16.784	24.152	25.789	13.918	11.462	11.053	10.643
82.5	11.462	11.462	11.871	15.146	18.012	8.596	7.778	7.778	7.368
85.0	6.140	6.550	7.778	8.596	11.053	5.322	4.912	4.912	4.912
87.5	3.275	3.684	3.684	3.684	4.912	2.047	2.047	2.047	2.047
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-S-8-35-ITL85138.001.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	121.63	N.A.	16.70
0-30	250.00	N.A.	34.30
0-40	393.86	N.A.	54.10
0-60	628.10	N.A.	86.30
0-80	719.98	N.A.	98.90
0-90	727.98	N.A.	100.00
10-90	695.82	N.A.	95.60
20-40	272.23	N.A.	37.40
20-50	405.89	N.A.	55.80
40-70	295.85	N.A.	40.60
60-80	91.88	N.A.	12.60
70-80	30.27	N.A.	4.20
80-90	8.00	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	727.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.16
10-20	89.47
20-30	128.36
30-40	143.87
40-50	133.66
50-60	100.58
60-70	61.61
70-80	30.27
80-90	8.00
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

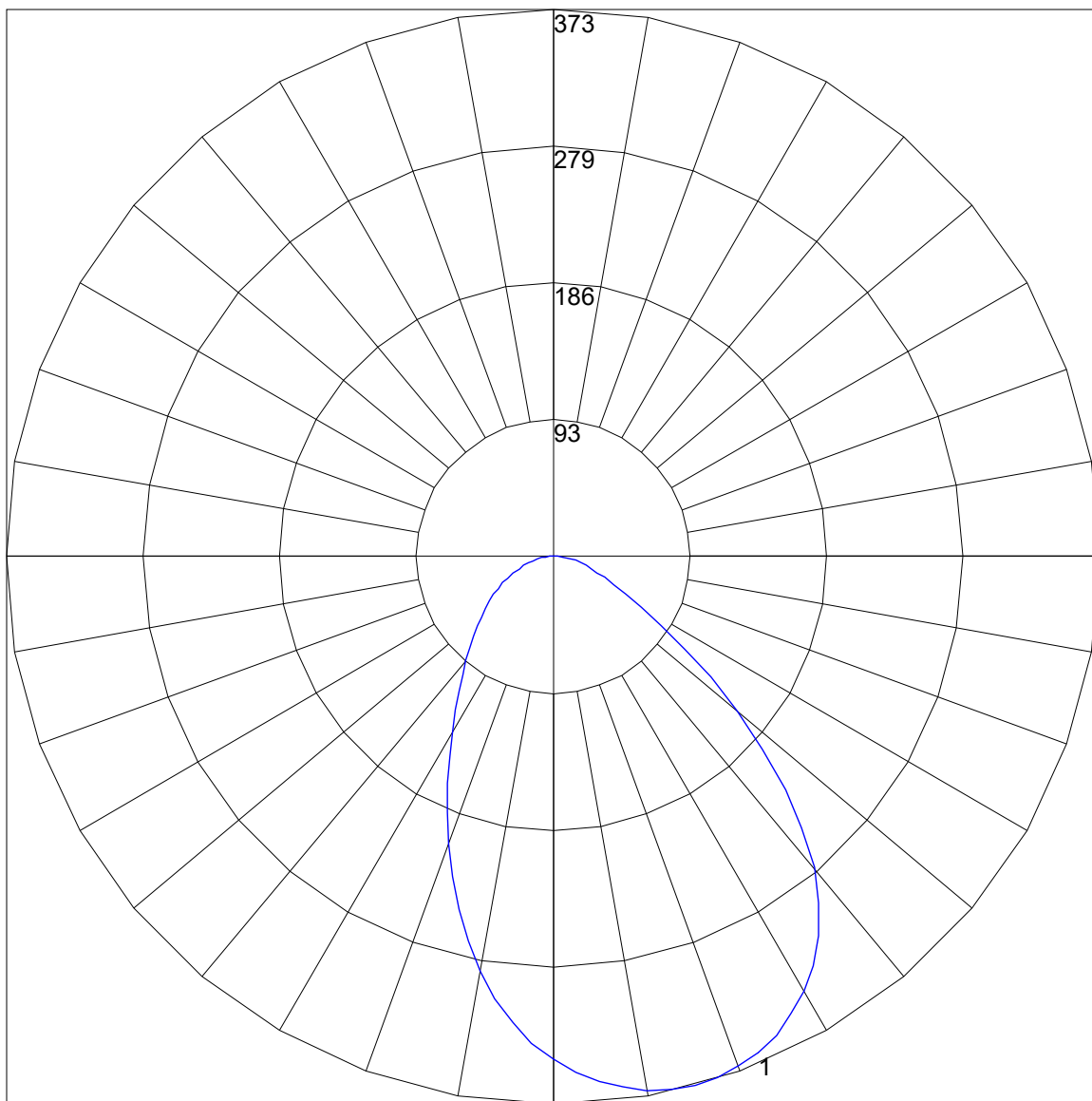
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	88	86
2	101	94	88	83	99	92	86	82	88	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 = 372.515 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)