

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-D-4FT-H-835-ITL85136.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85136.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/14/15
[ISSUE DATE]02/09/17
[MANUFACTURER]FINELITE, INC.
[LUMCAT]FINELITE HP-2-D-4ft-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.3 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.1 WATTS
[ABSOLUTE LUMENS]2501
[OTHER]see www.finelite.com for source file ITL85136. 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	2501
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	28.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.26
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	12725	12107	11456
55	11590	10952	10293
65	10450	9807	9248
75	9398	8897	8395
85	8400	7994	7722

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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	1037.556	1037.556	1037.556	1037.556	1037.556
2.5	1036.778	1036.000	1036.000	1036.000	1036.000
5.0	1032.111	1031.333	1031.333	1030.556	1029.778
7.5	1023.556	1023.556	1021.222	1020.444	1018.889
10.0	1014.222	1009.556	1008.778	1007.222	1004.889
12.5	999.444	993.222	992.444	989.333	984.667
15.0	982.333	973.778	973.000	967.556	961.333
17.5	962.111	951.222	950.444	942.667	934.111
20.0	938.000	926.333	924.000	913.111	904.556
22.5	912.333	899.111	894.444	881.222	871.111
25.0	881.222	868.778	862.556	846.222	836.111
27.5	850.111	836.111	827.556	810.444	804.222
30.0	816.667	802.667	791.778	773.111	766.111
32.5	781.667	769.222	755.222	735.778	728.000
35.0	745.111	732.667	717.889	696.889	689.889
37.5	708.556	696.111	680.556	658.778	651.000
40.0	668.889	656.444	642.444	619.111	609.778
42.5	630.000	619.889	603.556	579.444	571.667
45.0	592.667	581.000	563.889	542.111	533.556
47.5	553.778	542.889	525.778	504.778	496.222
50.0	514.111	504.778	487.667	467.444	459.667
52.5	475.222	465.889	449.556	430.889	423.889
55.0	437.889	428.556	413.778	395.889	388.889
57.5	399.000	391.222	376.444	360.111	353.889
60.0	362.444	354.667	340.667	326.667	321.222
62.5	325.889	318.889	306.444	294.000	288.556
65.0	290.889	283.889	273.000	262.111	257.444
67.5	256.667	250.444	241.111	232.556	227.111
70.0	224.000	218.556	210.000	203.000	198.333
72.5	191.333	186.667	179.667	174.222	170.333
75.0	160.222	156.333	151.667	146.222	143.111
77.5	130.667	127.556	123.667	119.000	116.667
80.0	101.889	100.333	96.444	93.333	92.556
82.5	74.667	73.889	70.778	69.222	68.444
85.0	48.222	47.444	45.889	44.333	44.333
87.5	21.778	21.778	21.778	21.000	21.000
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	371.14	N.A.	14.80
0-30	766.43	N.A.	30.60
0-40	1214.28	N.A.	48.60
0-60	2017.73	N.A.	80.70
0-80	2449.83	N.A.	98.00
0-90	2500.78	N.A.	100.00
10-90	2403.08	N.A.	96.10
20-40	843.14	N.A.	33.70
20-50	1277.36	N.A.	51.10
40-70	1074.91	N.A.	43.00
60-80	432.10	N.A.	17.30
70-80	160.64	N.A.	6.40
80-90	50.95	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	2500.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	97.70
10-20	273.45
20-30	395.29
30-40	447.85
40-50	434.22
50-60	369.22
60-70	271.46
70-80	160.64
80-90	50.95
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

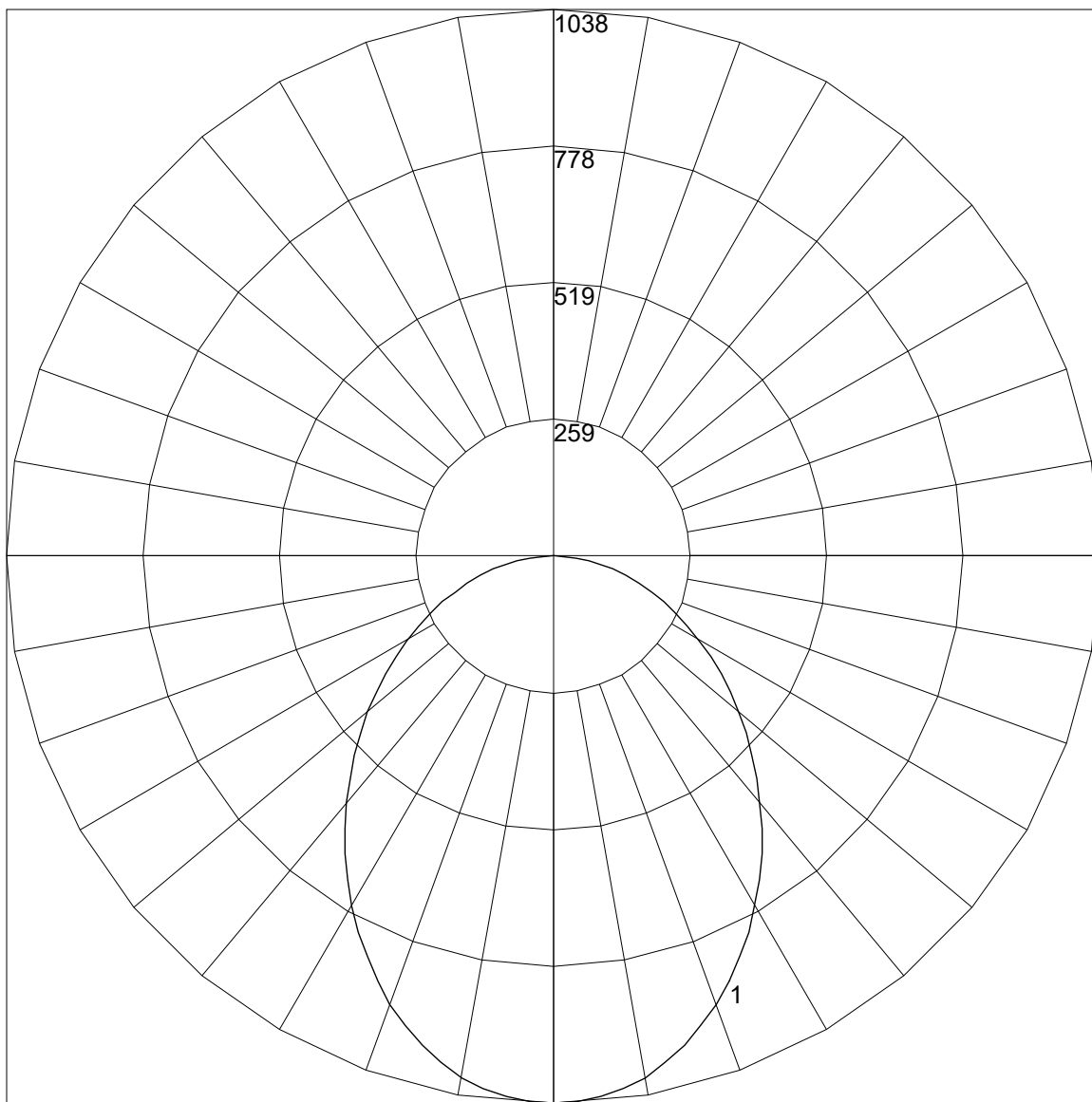
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1037.556 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)