

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-V-837-XXIC-ITL85136.200.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85136.200 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/14/15
[ISSUE DATE]04/27/2021
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-D-4ft-V-837-XXIC
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 35.7 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 37.7 WATTS
[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
[ABSOLUTE LUMENS]3119

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3119
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	35.7
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	15870	15099	14287
55	14455	13659	12837
65	13032	12231	11534
75	11721	11095	10469
85	10476	9969	9631

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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	1293.98	1293.98	1293.98	1293.98	1293.98
2.5	1293.01	1292.04	1292.04	1292.04	1292.04
5.0	1287.19	1286.22	1286.22	1285.25	1284.28
7.5	1276.52	1276.52	1273.61	1272.64	1270.70
10.0	1264.88	1259.06	1258.09	1256.15	1253.24
12.5	1246.45	1238.69	1237.72	1233.84	1228.02
15.0	1225.11	1214.44	1213.47	1206.68	1198.92
17.5	1199.89	1186.31	1185.34	1175.64	1164.97
20.0	1169.82	1155.27	1152.36	1138.78	1128.11
22.5	1137.81	1121.32	1115.50	1099.01	1086.40
25.0	1099.01	1083.49	1075.73	1055.36	1042.75
27.5	1060.21	1042.75	1032.08	1010.74	1002.98
30.0	1018.50	1001.04	987.46	964.18	955.45
32.5	974.85	959.33	941.87	917.62	907.92
35.0	929.26	913.74	895.31	869.12	860.39
37.5	883.67	868.15	848.75	821.59	811.89
40.0	834.20	818.68	801.22	772.12	760.48
42.5	785.70	773.09	752.72	722.65	712.95
45.0	739.14	724.59	703.25	676.09	665.42
47.5	690.64	677.06	655.72	629.53	618.86
50.0	641.17	629.53	608.19	582.97	573.27
52.5	592.67	581.03	560.66	537.38	528.65
55.0	546.11	534.47	516.04	493.73	485.00
57.5	497.61	487.91	469.48	449.11	441.35
60.0	452.02	442.32	424.86	407.40	400.61
62.5	406.43	397.70	382.18	366.66	359.87
65.0	362.78	354.05	340.47	326.89	321.07
67.5	320.10	312.34	300.70	290.03	283.24
70.0	279.36	272.57	261.90	253.17	247.35
72.5	238.62	232.80	224.07	217.28	212.43
75.0	199.82	194.97	189.15	182.36	178.48
77.5	162.96	159.08	154.23	148.41	145.50
80.0	127.07	125.13	120.28	116.40	115.43
82.5	93.12	92.15	88.27	86.33	85.36
85.0	60.14	59.17	57.23	55.29	55.29
87.5	27.16	27.16	27.16	26.19	26.19
90.0	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	462.87	N.A.	14.80
0-30	955.85	N.A.	30.60
0-40	1514.38	N.A.	48.60
0-60	2516.39	N.A.	80.70
0-80	3055.29	N.A.	98.00
0-90	3118.83	N.A.	100.00
10-90	2996.98	N.A.	96.10
20-40	1051.51	N.A.	33.70
20-50	1593.05	N.A.	51.10
40-70	1340.57	N.A.	43.00
60-80	538.89	N.A.	17.30
70-80	200.34	N.A.	6.40
80-90	63.54	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	3118.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.84
10-20	341.03
20-30	492.98
30-40	558.53
40-50	541.54
50-60	460.47
60-70	338.55
70-80	200.34
80-90	63.54
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

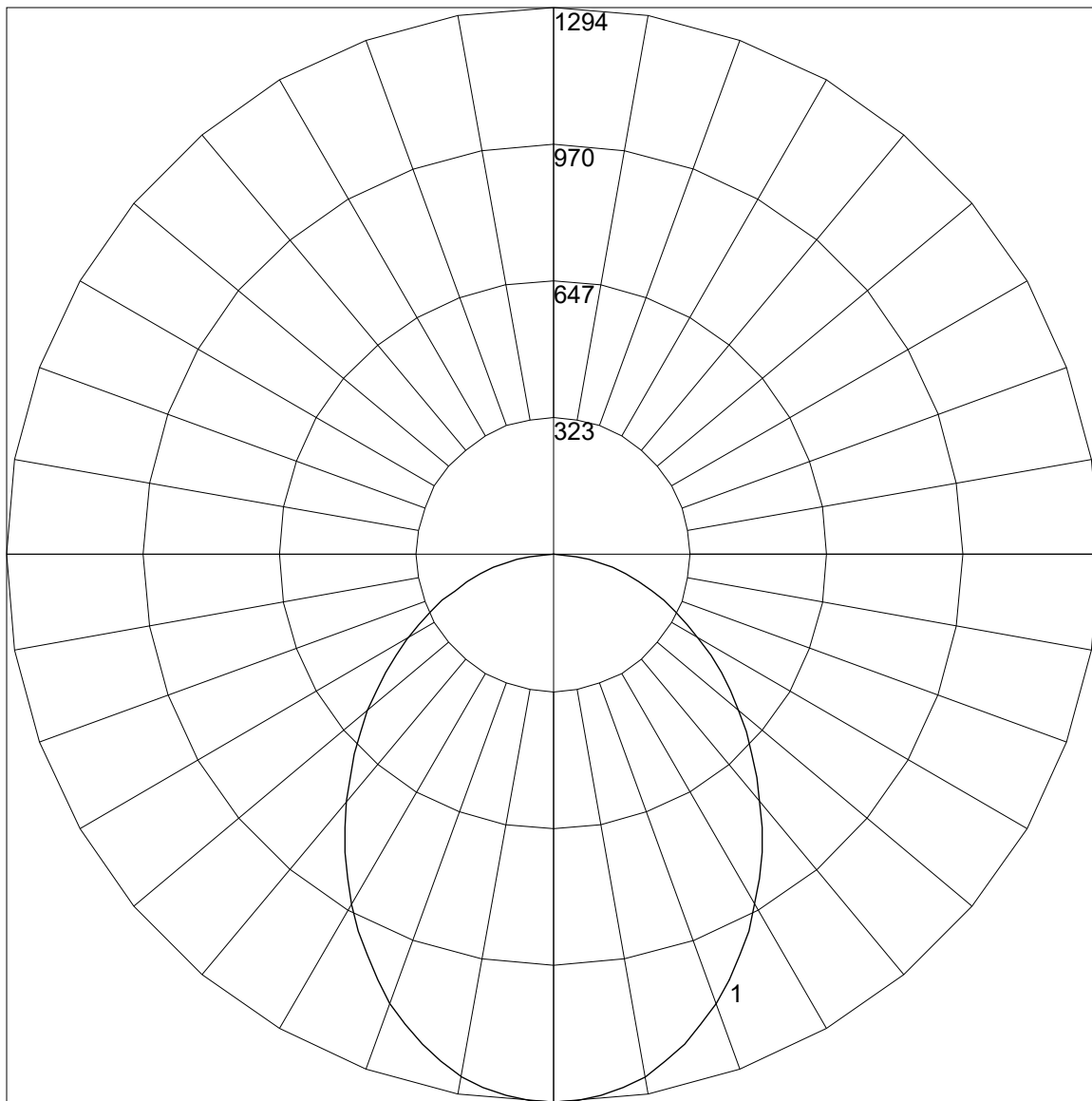
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1293.98 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)