

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-837-XXIC-ITL85136.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85136.203 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/14/15
[ISSUEDATE]05/03/2021
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-2-D-4ft-H-837-XXIC
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 27.4 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.1 WATTS
[ABSOLUTE]LUMENS]2425
[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	2426
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	27.4
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	12343	11744	11112
55	11243	10624	9985
65	10136	9513	8971
75	9116	8630	8143
85	8148	7754	7491

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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	1006.429	1006.429	1006.429	1006.429	1006.429
2.5	1005.674	1004.920	1004.920	1004.920	1004.920
5.0	1001.148	1000.393	1000.393	999.639	998.884
7.5	992.849	992.849	990.586	989.831	988.322
10.0	983.796	979.269	978.514	977.006	974.742
12.5	969.461	963.426	962.671	959.653	955.127
15.0	952.863	944.564	943.810	938.529	932.493
17.5	933.248	922.686	921.931	914.387	906.088
20.0	909.860	898.543	896.280	885.718	877.419
22.5	884.963	872.138	867.611	854.786	844.978
25.0	854.786	842.714	836.679	820.836	811.028
27.5	824.608	811.028	802.729	786.131	780.096
30.0	792.167	778.587	768.024	749.918	743.128
32.5	758.217	746.146	732.566	713.704	706.160
35.0	722.758	710.687	696.352	675.982	669.192
37.5	687.299	675.228	660.139	639.014	631.470
40.0	648.822	636.751	623.171	600.538	591.484
42.5	611.100	601.292	585.449	562.061	554.517
45.0	574.887	563.570	546.972	525.848	517.549
47.5	537.164	526.602	510.004	489.634	481.336
50.0	498.688	489.634	473.037	453.421	445.877
52.5	460.966	451.912	436.069	417.962	411.172
55.0	424.752	415.699	401.364	384.012	377.222
57.5	387.030	379.486	365.151	349.308	343.272
60.0	351.571	344.027	330.447	316.867	311.586
62.5	316.112	309.322	297.251	285.180	279.899
65.0	282.162	275.372	264.810	254.248	249.721
67.5	248.967	242.931	233.878	225.579	220.298
70.0	217.280	211.999	203.700	196.910	192.383
72.5	185.593	181.067	174.277	168.996	165.223
75.0	155.416	151.643	147.117	141.836	138.818
77.5	126.747	123.729	119.957	115.430	113.167
80.0	98.832	97.323	93.551	90.533	89.779
82.5	72.427	71.672	68.654	67.146	66.391
85.0	46.776	46.021	44.512	43.003	43.003
87.5	21.124	21.124	21.124	20.370	20.370
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	360.01	N.A.	14.80
0-30	743.44	N.A.	30.60
0-40	1177.85	N.A.	48.60
0-60	1957.19	N.A.	80.70
0-80	2376.33	N.A.	98.00
0-90	2425.75	N.A.	100.00
10-90	2330.99	N.A.	96.10
20-40	817.84	N.A.	33.70
20-50	1239.04	N.A.	51.10
40-70	1042.66	N.A.	43.00
60-80	419.14	N.A.	17.30
70-80	155.82	N.A.	6.40
80-90	49.42	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	2425.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.77
10-20	265.24
20-30	383.43
30-40	434.41
40-50	421.20
50-60	358.15
60-70	263.32
70-80	155.82
80-90	49.42
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

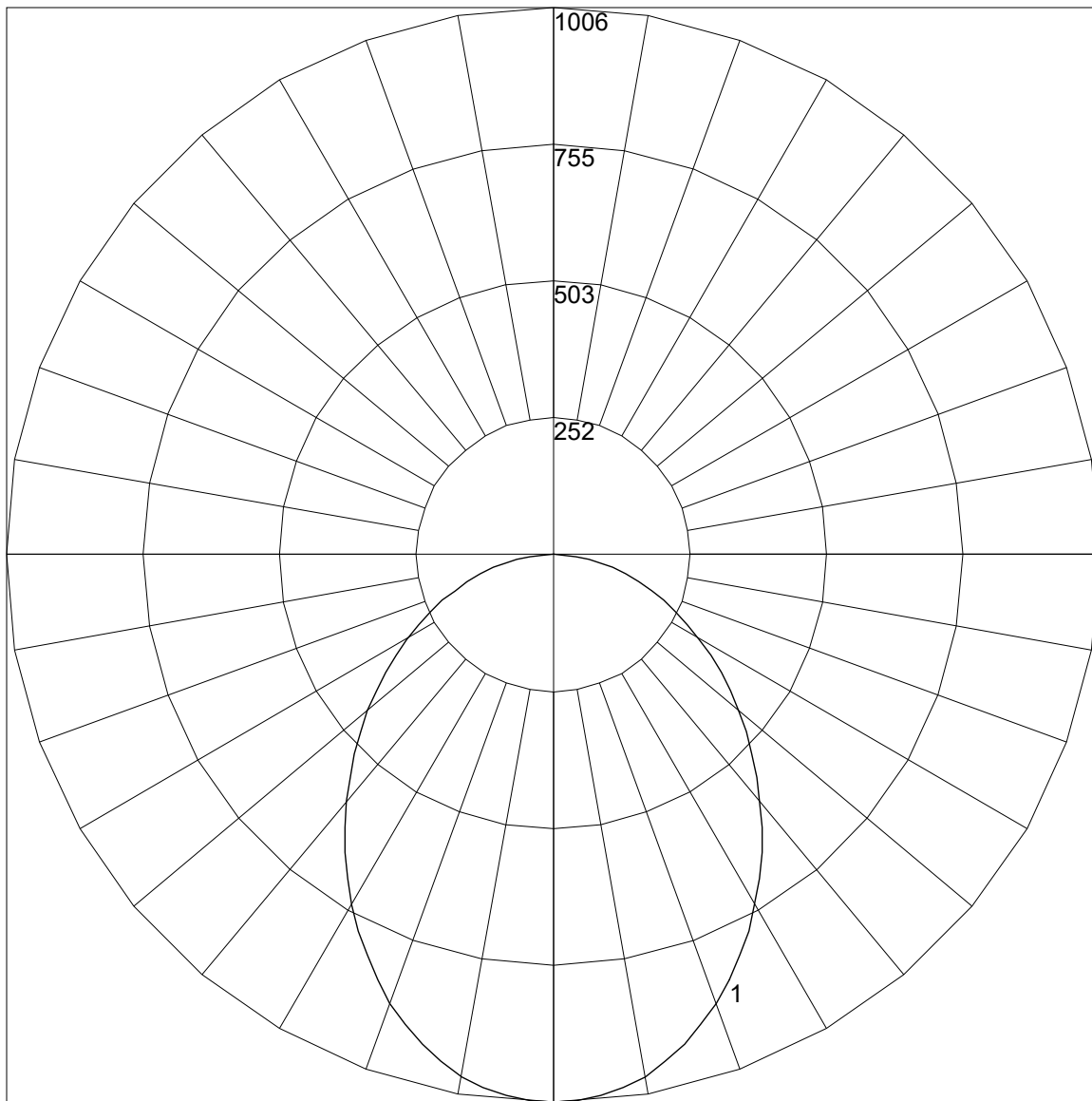
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1006.429 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)