

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-P-D-4FT-H-837-XXIC-DSO-ITL94139.201.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94139.201 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/03/20

[ISSUEDATE]05/03/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-P-D-4ft-H-837-XXIC-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 27.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 27.6 WATTS

[OTHER]see www.finelite.com for source file ITL94139. 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]2469

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2470
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	27.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.42
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	10433	13187	13544
55	9487	12143	12143
65	8511	10788	10490
75	7569	9206	8719
85	6572	6966	6309

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	879.797	879.797	879.797	879.797	879.797
2.5	878.288	878.288	879.043	880.552	880.552
5.0	873.761	874.516	878.288	882.061	883.570
7.5	865.461	868.479	875.270	883.570	888.097
10.0	854.897	858.670	873.761	889.606	894.888
12.5	842.070	846.597	872.252	894.134	900.170
15.0	824.716	832.261	867.725	895.643	903.188
17.5	806.607	816.416	861.688	895.643	904.697
20.0	783.970	798.307	854.143	891.870	901.679
22.5	759.825	777.179	841.316	883.570	894.888
25.0	732.661	756.052	826.979	872.252	882.816
27.5	705.498	733.416	810.379	856.407	866.970
30.0	676.071	709.271	789.252	835.279	843.579
32.5	645.889	682.107	767.370	811.134	817.925
35.0	614.198	653.434	742.470	781.707	786.234
37.5	583.262	624.762	713.043	749.261	751.525
40.0	550.062	594.580	681.352	714.552	713.043
42.5	518.371	562.889	648.907	675.316	672.298
45.0	485.926	530.444	614.198	635.325	630.798
47.5	454.235	497.999	576.471	593.825	589.298
50.0	421.035	464.799	537.989	550.817	543.271
52.5	388.590	430.090	498.753	508.562	501.017
55.0	358.408	396.135	458.762	464.799	458.762
57.5	326.717	362.181	418.771	422.544	412.735
60.0	296.535	327.472	378.781	381.799	371.990
62.5	267.863	294.272	340.299	339.544	331.999
65.0	236.927	262.581	300.308	299.554	292.008
67.5	209.763	230.136	262.581	260.317	252.772
70.0	181.845	199.199	226.363	222.590	215.799
72.5	154.681	169.018	190.899	187.127	181.090
75.0	129.027	139.590	156.945	153.172	148.645
77.5	104.882	112.427	124.500	120.727	116.954
80.0	82.245	86.018	95.072	90.545	87.527
82.5	60.363	61.873	66.400	63.382	61.118
85.0	37.727	39.236	39.991	37.727	36.218
87.5	17.354	17.354	15.845	15.091	13.582
90.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-D-4FT-H-837-XXIC-DSO-ITL94139.201.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	328.05	N.A.	13.30
0-30	703.71	N.A.	28.50
0-40	1153.09	N.A.	46.70
0-60	1989.91	N.A.	80.60
0-80	2425.89	N.A.	98.20
0-90	2469.98	N.A.	100.00
10-90	2386.29	N.A.	96.60
20-40	825.04	N.A.	33.40
20-50	1275.56	N.A.	51.60
40-70	1116.32	N.A.	45.20
60-80	435.97	N.A.	17.70
70-80	156.48	N.A.	6.30
80-90	44.09	N.A.	1.80
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	2469.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	83.69
10-20	244.36
20-30	375.65
30-40	449.39
40-50	450.52
50-60	386.30
60-70	279.50
70-80	156.48
80-90	44.09
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

IES INDOOR REPORT

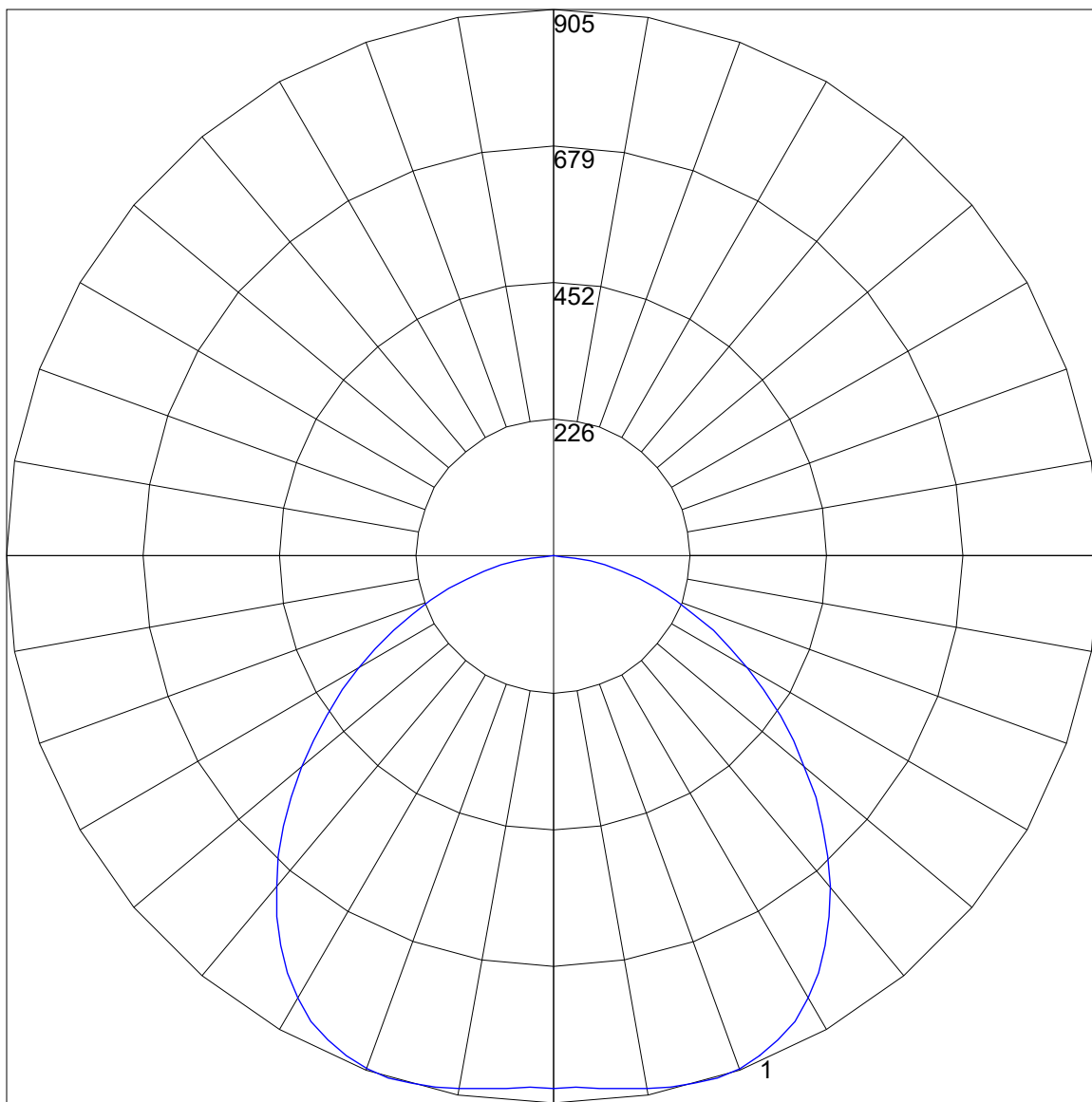
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 904.697 Located At Horizontal Angle = 90, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)