

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-V-837-XXIC-DSO-ITL94139.200.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94139.200 Family Correlation Files

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/03/20

[ISSUEDATE]04/27/2021

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 35.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 35.7 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]3174

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3175
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	35.7
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	13412	16953	17411
55	12196	15610	15610
65	10942	13869	13485
75	9730	11835	11209
85	8448	8955	8110

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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	1131.02	1131.02	1131.02	1131.02	1131.02
2.5	1129.08	1129.08	1130.05	1131.99	1131.99
5.0	1123.26	1124.23	1129.08	1133.93	1135.87
7.5	1112.59	1116.47	1125.20	1135.87	1141.69
10.0	1099.01	1103.86	1123.26	1143.63	1150.42
12.5	1082.52	1088.34	1121.32	1149.45	1157.21
15.0	1060.21	1069.91	1115.50	1151.39	1161.09
17.5	1036.93	1049.54	1107.74	1151.39	1163.03
20.0	1007.83	1026.26	1098.04	1146.54	1159.15
22.5	976.79	999.10	1081.55	1135.87	1150.42
25.0	941.87	971.94	1063.12	1121.32	1134.90
27.5	906.95	942.84	1041.78	1100.95	1114.53
30.0	869.12	911.80	1014.62	1073.79	1084.46
32.5	830.32	876.88	986.49	1042.75	1051.48
35.0	789.58	840.02	954.48	1004.92	1010.74
37.5	749.81	803.16	916.65	963.21	966.12
40.0	707.13	764.36	875.91	918.59	916.65
42.5	666.39	723.62	834.20	868.15	864.27
45.0	624.68	681.91	789.58	816.74	810.92
47.5	583.94	640.20	741.08	763.39	757.57
50.0	541.26	597.52	691.61	708.10	698.40
52.5	499.55	552.90	641.17	653.78	644.08
55.0	460.75	509.25	589.76	597.52	589.76
57.5	420.01	465.60	538.35	543.20	530.59
60.0	381.21	420.98	486.94	490.82	478.21
62.5	344.35	378.30	437.47	436.50	426.80
65.0	304.58	337.56	386.06	385.09	375.39
67.5	269.66	295.85	337.56	334.65	324.95
70.0	233.77	256.08	291.00	286.15	277.42
72.5	198.85	217.28	245.41	240.56	232.80
75.0	165.87	179.45	201.76	196.91	191.09
77.5	134.83	144.53	160.05	155.20	150.35
80.0	105.73	110.58	122.22	116.40	112.52
82.5	77.60	79.54	85.36	81.48	78.57
85.0	48.50	50.44	51.41	48.50	46.56
87.5	22.31	22.31	20.37	19.40	17.46
90.0	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-D-4FT-V-837-XXIC-DSO-ITL94139.200.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	421.73	N.A.	13.30
0-30	904.65	N.A.	28.50
0-40	1482.36	N.A.	46.70
0-60	2558.13	N.A.	80.60
0-80	3118.59	N.A.	98.20
0-90	3175.27	N.A.	100.00
10-90	3067.69	N.A.	96.60
20-40	1060.63	N.A.	33.40
20-50	1639.8	N.A.	51.60
40-70	1435.08	N.A.	45.20
60-80	560.47	N.A.	17.70
70-80	201.16	N.A.	6.30
80-90	56.68	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	3175.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.59
10-20	314.14
20-30	482.92
30-40	577.71
40-50	579.17
50-60	496.60
60-70	359.31
70-80	201.16
80-90	56.68
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

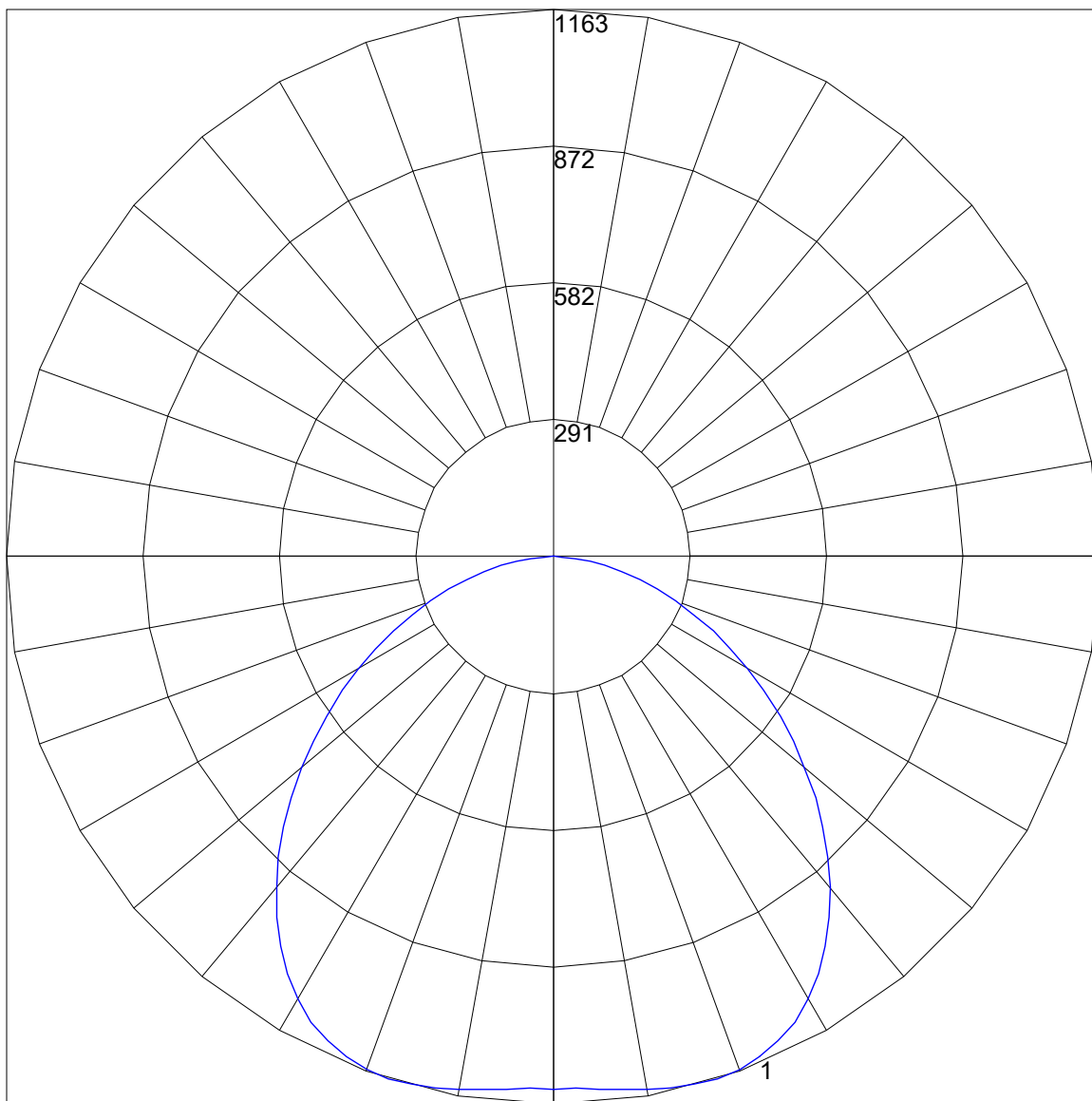
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	56	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 = 1163.03 Located At Horizontal Angle = 90, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)