

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-6-EO-D-4FT-V-837-XXIC-ITL89078.200.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89078.200 Family Correlation file
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]03/21/17
[ISSUE DATE]05/17/2021
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-6-EO-D-4ft-V-837-XXIC
[INPUT_ELECTRICAL]120.0 VOLTS, 70.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 69.9 WATTS
[OTHER]see www.finelite.com for source file ITL89078. 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]7785

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7785
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.43 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15641	15631	15566
55	14875	14864	14806
65	14003	13972	13972
75	13022	12919	12971
85	12027	11571	11571

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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	2828.092	2828.092	2828.092	2828.092	2828.092
2.5	2824.892	2823.825	2824.892	2824.892	2824.892
5.0	2815.291	2813.157	2813.157	2814.224	2813.157
7.5	2799.289	2797.155	2796.088	2795.021	2795.021
10.0	2773.685	2767.284	2771.552	2771.552	2768.351
12.5	2738.481	2728.880	2739.548	2738.481	2732.080
15.0	2697.942	2683.007	2700.076	2700.076	2690.475
17.5	2649.936	2633.934	2652.070	2654.203	2642.469
20.0	2595.529	2576.327	2594.463	2599.797	2586.995
22.5	2532.588	2514.452	2533.655	2535.788	2526.187
25.0	2465.379	2451.511	2467.513	2467.513	2458.979
27.5	2392.837	2375.768	2396.037	2397.104	2387.503
30.0	2314.960	2298.958	2317.094	2317.094	2310.693
32.5	2238.151	2218.948	2237.084	2233.883	2228.549
35.0	2151.740	2131.470	2150.673	2146.406	2142.138
37.5	2062.128	2043.993	2062.128	2056.794	2054.661
40.0	1969.317	1952.248	1970.383	1963.983	1961.849
42.5	1875.438	1860.503	1875.438	1872.238	1866.904
45.0	1778.359	1764.491	1777.292	1774.092	1769.825
47.5	1679.146	1666.345	1679.146	1675.946	1675.946
50.0	1578.867	1567.132	1577.800	1574.600	1575.667
52.5	1475.387	1464.719	1474.320	1471.120	1473.254
55.0	1371.907	1362.306	1370.841	1367.640	1365.507
57.5	1266.294	1257.760	1265.227	1266.294	1263.094
60.0	1160.681	1153.213	1159.614	1160.681	1157.480
62.5	1056.134	1048.666	1054.000	1056.134	1052.934
65.0	951.587	945.187	949.454	948.387	949.454
67.5	848.108	841.707	844.907	844.907	845.974
70.0	744.628	738.227	740.361	740.361	742.494
72.5	643.282	636.881	639.014	640.081	645.415
75.0	541.935	538.735	537.668	536.601	539.802
77.5	444.856	441.656	442.723	441.656	442.723
80.0	354.178	346.711	346.711	348.844	347.777
82.5	260.300	252.832	252.832	256.032	253.899
85.0	168.555	162.154	162.154	165.354	162.154
87.5	78.943	72.543	73.609	77.877	74.676
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	1026.95	N.A.	13.20
0-30	2160.82	N.A.	27.80
0-40	3502.04	N.A.	45.00
0-60	6092.69	N.A.	78.30
0-80	7603.18	N.A.	97.70
0-90	7784.88	N.A.	100.00
10-90	7517.64	N.A.	96.60
20-40	2475.08	N.A.	31.80
20-50	3842.84	N.A.	49.40
40-70	3529.95	N.A.	45.30
60-80	1510.49	N.A.	19.40
70-80	571.20	N.A.	7.30
80-90	181.70	N.A.	2.30
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	7784.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

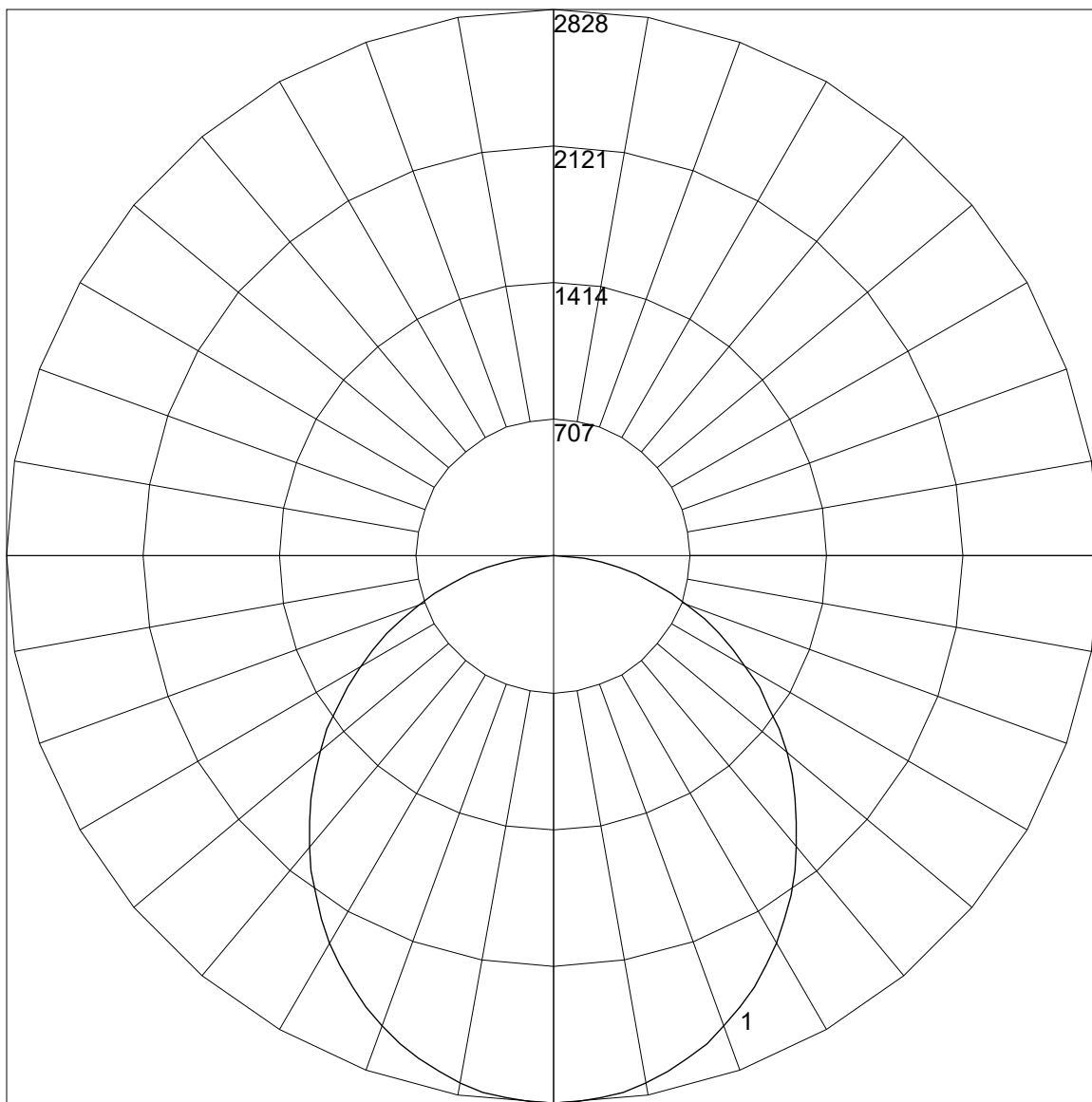
Zone	Lumens
0-10	267.23
10-20	759.72
20-30	1133.87
30-40	1341.21
40-50	1367.76
50-60	1222.89
60-70	939.29
70-80	571.20
80-90	181.70
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2828.092 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)