

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-H-837-XXIC-ITL89078.201.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89078.201 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/21/17

[ISSUEDATE]12/04/17

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-6-EO-D-4ft-H-837-XXIC

[_INPUT_ELECTRICAL]120.0 VOLTS, 53.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 54.0 WATTS

[_ABSOLUTE]LUMENS]6055

[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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6055
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	53.7
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	12165	12158	12107
55	11569	11560	11515
65	10891	10867	10867
75	10128	10048	10088
85	9354	8999	8999

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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	2199.596	2199.596	2199.596	2199.596	2199.596
2.5	2197.107	2196.277	2197.107	2197.107	2197.107
5.0	2189.639	2187.980	2187.980	2188.810	2187.980
7.5	2177.193	2175.534	2174.704	2173.875	2173.875
10.0	2157.280	2152.302	2155.621	2155.621	2153.131
12.5	2129.899	2122.432	2130.729	2129.899	2124.921
15.0	2098.370	2086.754	2100.029	2100.029	2092.562
17.5	2061.032	2048.586	2062.692	2064.351	2055.224
20.0	2018.716	2003.781	2017.887	2022.035	2012.079
22.5	1969.763	1955.657	1970.592	1972.252	1964.784
25.0	1917.490	1906.704	1919.150	1919.150	1912.512
27.5	1861.069	1847.793	1863.558	1864.388	1856.920
30.0	1800.499	1788.053	1802.159	1802.159	1797.180
32.5	1740.759	1725.824	1739.929	1737.440	1733.292
35.0	1673.552	1657.787	1672.722	1669.403	1666.084
37.5	1603.855	1589.749	1603.855	1599.706	1598.047
40.0	1531.669	1518.393	1532.499	1527.520	1525.861
42.5	1458.653	1447.037	1458.653	1456.164	1452.015
45.0	1383.148	1372.362	1382.319	1379.830	1376.511
47.5	1305.984	1296.028	1305.984	1303.495	1303.495
50.0	1227.990	1218.863	1227.160	1224.671	1225.501
52.5	1147.507	1139.210	1146.677	1144.188	1145.848
55.0	1067.024	1059.556	1066.194	1063.705	1062.046
57.5	984.881	978.244	984.052	984.881	982.392
60.0	902.739	896.931	901.909	902.739	900.250
62.5	821.426	815.618	819.766	821.426	818.937
65.0	740.113	735.135	738.454	737.624	738.454
67.5	659.630	654.652	657.141	657.141	657.970
70.0	579.147	574.168	575.828	575.828	577.487
72.5	500.323	495.345	497.004	497.834	501.982
75.0	421.499	419.010	418.180	417.351	419.840
77.5	345.995	343.505	344.335	343.505	344.335
80.0	275.468	269.660	269.660	271.319	270.490
82.5	202.452	196.644	196.644	199.134	197.474
85.0	131.096	126.118	126.118	128.607	126.118
87.5	61.400	56.421	57.251	60.570	58.081
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	798.73	N.A.	13.20
0-30	1680.62	N.A.	27.80
0-40	2723.77	N.A.	45.00
0-60	4738.69	N.A.	78.30
0-80	5913.5	N.A.	97.70
0-90	6054.82	N.A.	100.00
10-90	5846.97	N.A.	96.60
20-40	1925.04	N.A.	31.80
20-50	2988.83	N.A.	49.40
40-70	2745.47	N.A.	45.30
60-80	1174.81	N.A.	19.40
70-80	444.26	N.A.	7.30
80-90	141.32	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	6054.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

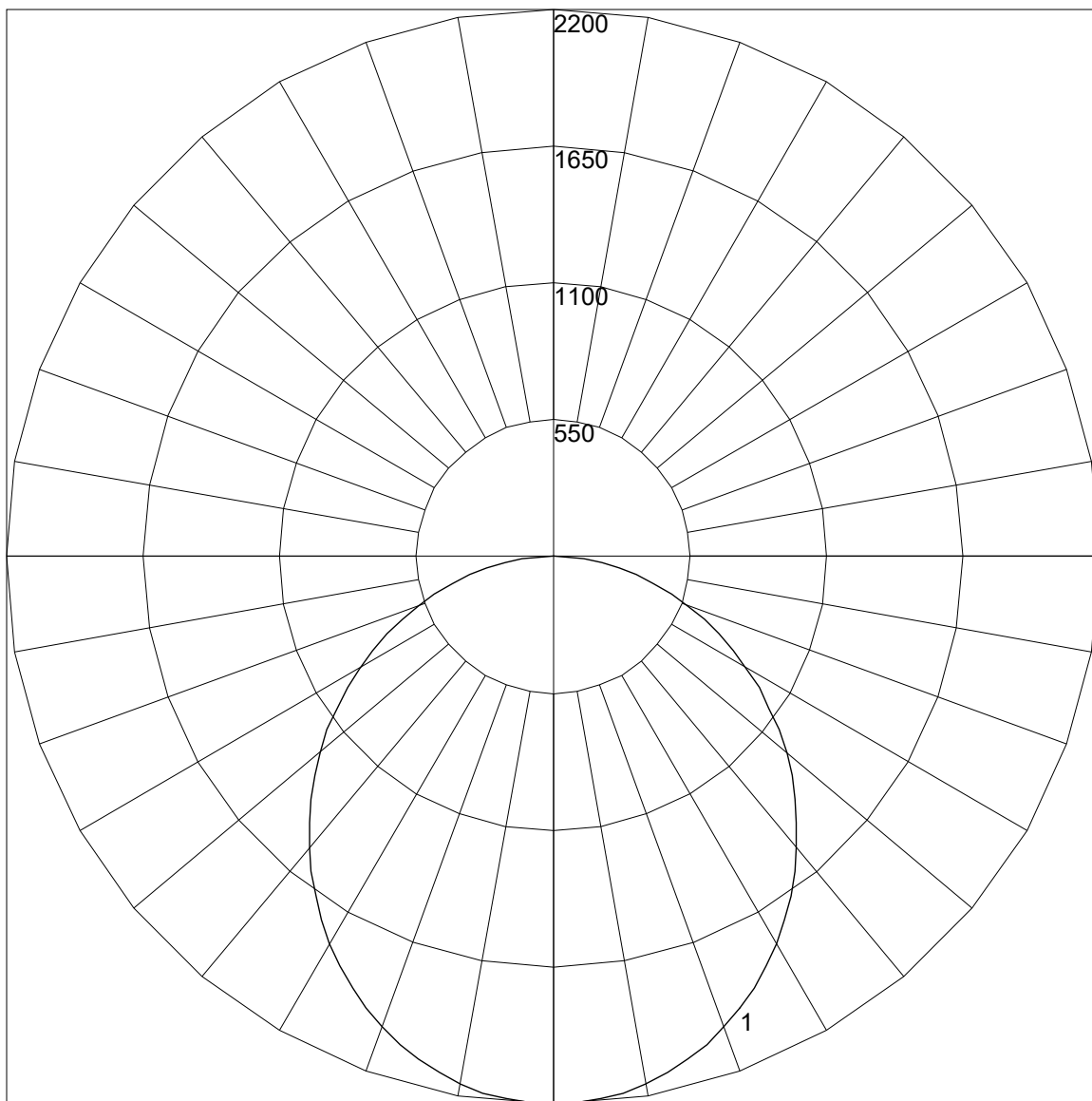
Zone	Lumens
0-10	207.84
10-20	590.89
20-30	881.88
30-40	1043.15
40-50	1063.8
50-60	951.12
60-70	730.55
70-80	444.26
80-90	141.32
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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 = 2199.596 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)