

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-X ID-4FT-V-H-835-TG-F-ITL92550.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92550.004 Family Correlation Files
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUEDATE]11/21/19
[TESTDATE]01/07/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-X-ID-4ft-V-H-835-TG-F
[INPUT_ELECTRICAL]120.0 VOLTS, 60.9 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 61.2 WATTS
[ABSOLUTE LUMENS]7270
[OTHER]see www.finelite.com for source file ITL92550. 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	7270
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	60.9
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13738	13085	12865
55	13317	12477	12300
65	12619	11682	11567
75	11548	10585	10626
85	9980	9076	9686

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-X ID-4FT-V-H-835-TG-F-ITL92550.004.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1071.815	1071.815	1071.815	1071.815	1071.815
2.5	1070.260	1070.260	1071.038	1070.260	1071.038
5.0	1066.371	1067.149	1067.149	1067.149	1067.149
7.5	1060.926	1060.926	1061.704	1061.704	1061.704
10.0	1053.926	1051.592	1053.926	1053.926	1053.926
12.5	1043.814	1039.925	1043.814	1043.814	1042.259
15.0	1032.147	1025.147	1031.370	1032.147	1029.036
17.5	1017.369	1010.369	1016.591	1018.147	1015.813
20.0	1001.035	991.702	998.702	1000.257	997.146
22.5	980.812	971.479	980.034	980.812	976.923
25.0	959.812	949.700	958.256	959.034	956.700
27.5	934.922	926.366	934.922	934.922	932.588
30.0	909.254	899.920	908.476	908.476	906.921
32.5	882.031	873.475	882.031	881.253	880.475
35.0	853.252	845.474	852.474	851.697	849.363
37.5	821.362	813.584	822.140	821.362	820.584
40.0	787.917	780.916	788.694	789.472	789.472
42.5	754.471	748.249	755.249	757.582	758.360
45.0	717.914	714.803	721.025	724.136	722.581
47.5	682.913	677.468	684.468	687.580	688.357
50.0	644.023	640.134	647.912	652.578	652.578
52.5	604.355	601.243	611.355	614.466	614.466
55.0	565.464	561.575	570.909	575.576	577.909
57.5	523.463	521.129	532.019	535.908	538.241
60.0	480.683	478.350	491.573	497.017	498.573
62.5	437.904	437.904	450.349	456.572	459.683
65.0	395.903	396.681	409.125	416.904	420.793
67.5	351.568	353.901	367.902	376.458	381.125
70.0	309.566	311.900	326.678	336.012	339.901
72.5	267.565	270.676	286.232	296.344	301.788
75.0	223.230	231.008	245.786	258.231	262.120
77.5	182.784	190.562	206.896	220.119	224.786
80.0	143.894	152.450	169.561	182.784	187.451
82.5	106.559	115.115	133.005	147.783	153.228
85.0	66.891	79.336	97.226	112.782	118.226
87.5	30.334	45.113	63.780	80.114	85.559
90.0	1.556	17.890	39.668	57.558	63.780
92.5	34.000	51.000	74.000	95.000	102.000
95.0	69.000	85.000	108.000	130.000	137.000
97.5	108.000	122.000	144.000	166.000	173.000
100.0	150.000	162.000	184.000	205.000	213.000
102.5	192.000	203.000	225.000	246.000	254.000
105.0	237.000	249.000	270.000	291.000	298.000
107.5	284.000	294.000	316.000	336.000	343.000
110.0	338.000	344.000	365.000	384.000	391.000
112.5	389.000	394.000	415.000	432.000	439.000
115.0	441.000	445.000	468.000	483.000	489.000
117.5	497.000	501.000	520.000	535.000	540.000
120.0	553.000	555.000	574.000	588.000	593.000
122.5	612.000	610.000	628.000	641.000	649.000
125.0	672.000	667.000	684.000	695.000	702.000
127.5	732.000	726.000	742.000	752.000	758.000
130.0	791.000	784.000	798.000	808.000	812.000
132.5	853.000	844.000	858.000	864.000	872.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-X ID-4FT-V-H-835-TG-F-ITL92550.004.IES

CANDELA TABULATION - (Cont.)

135.0	912.000	903.000	916.000	922.000	926.000
137.5	973.000	960.000	972.000	978.000	980.000
140.0	1032.000	1019.000	1030.000	1034.000	1033.000
142.5	1091.000	1075.000	1086.000	1088.000	1088.000
145.0	1147.000	1129.000	1142.000	1141.000	1141.000
147.5	1202.000	1184.000	1194.000	1193.000	1192.000
150.0	1252.000	1236.000	1243.000	1243.000	1240.000
152.5	1301.000	1282.000	1291.000	1288.000	1286.000
155.0	1347.000	1328.000	1337.000	1332.000	1329.000
157.5	1386.000	1370.000	1378.000	1374.000	1370.000
160.0	1423.000	1408.000	1416.000	1412.000	1406.000
162.5	1455.000	1443.000	1449.000	1446.000	1442.000
165.0	1485.000	1474.000	1478.000	1476.000	1470.000
167.5	1508.000	1502.000	1504.000	1502.000	1498.000
170.0	1528.000	1525.000	1526.000	1525.000	1522.000
172.5	1543.000	1542.000	1542.000	1541.000	1541.000
175.0	1554.000	1554.000	1554.000	1554.000	1554.000
177.5	1562.000	1561.000	1561.000	1561.000	1561.000
180.0	1564.000	1564.000	1564.000	1564.000	1564.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-X ID-4FT-V-H-835-TG-F-ITL92550.004.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	392.12	N.A.	5.40
0-30	832.74	N.A.	11.50
0-40	1364.6	N.A.	18.80
0-60	2429.21	N.A.	33.40
0-80	3091.2	N.A.	42.50
0-90	3197.66	N.A.	44.00
10-90	3096.23	N.A.	42.60
20-40	972.48	N.A.	13.40
20-50	1527.69	N.A.	21.00
40-70	1467.89	N.A.	20.20
60-80	661.98	N.A.	9.10
70-80	258.70	N.A.	3.60
80-90	106.46	N.A.	1.50
90-110	403.08	N.A.	5.50
90-120	864.83	N.A.	11.90
90-130	1476.79	N.A.	20.30
90-150	2894.55	N.A.	39.80
90-180	4071.91	N.A.	56.00
110-180	3668.83	N.A.	50.50
0-180	7269.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

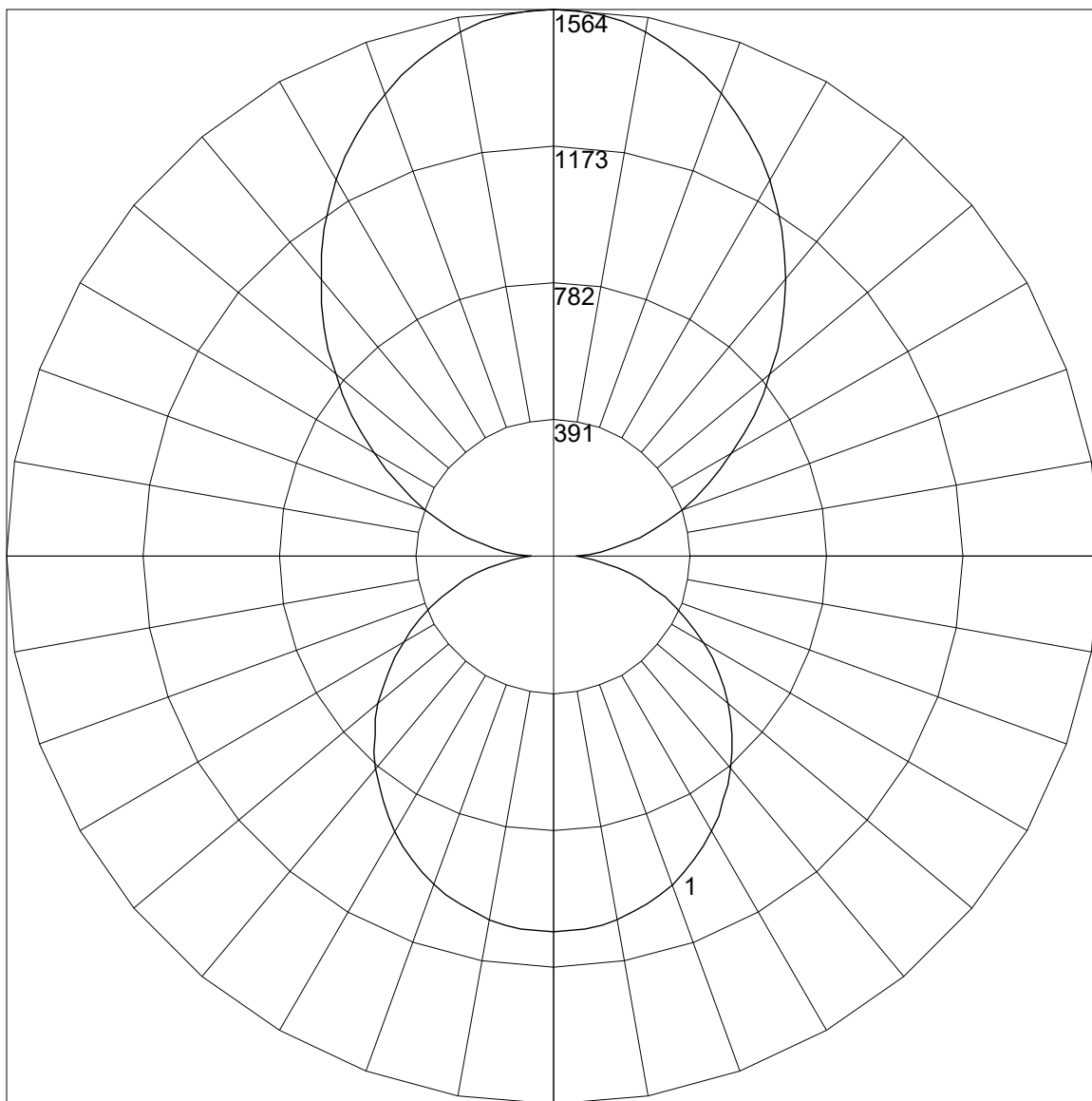
Zone	Lumens
0-10	101.42
10-20	290.70
20-30	440.62
30-40	531.85
40-50	555.21
50-60	509.40
60-70	403.28
70-80	258.70
80-90	106.46
90-100	117.55
100-110	285.53
110-120	461.75
120-130	611.96
130-140	705.63
140-150	712.13
150-160	613.83
160-170	416.11
170-180	147.42

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	96	91	87	84	88	84	80	77	69	67	65	56	54	53	44	43	42	36
2	87	80	73	68	79	73	67	63	60	56	53	49	46	44	38	36	35	30
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	31	29	25
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	27	25	21
5	66	55	46	40	60	50	43	38	42	36	32	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	33	38	32	28	31	27	23	24	21	19	16
7	56	44	36	30	51	41	33	28	34	28	24	28	24	21	22	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	25	21	18	20	17	15	12
9	49	36	29	24	44	34	27	22	28	23	19	23	19	16	19	16	13	11
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 1564 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)