

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-B-V-835-WSO-F-ITL92314.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92314.010 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/01/19
[ISSUEDATE]01/06/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-X-ID-4ft-B-V-835-WSO-F
[INPUT_ELECTRICAL]120.0 VOLTS, 51.7 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 52.6 WATTS
[ABSOLUTE LUMENS]6178
[OTHER]see www.finelite.com for source file ITL92314. 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	6179
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	51.7
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17639	17715	17582
55	17064	17111	16994
65	16170	16266	16234
75	15044	15251	15355
85	13094	14018	14326

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1370.912	1370.912	1370.912	1370.912	1370.912
2.5	1369.924	1369.924	1369.924	1369.924	1369.924
5.0	1365.970	1365.970	1365.970	1365.970	1365.970
7.5	1357.075	1358.063	1358.063	1359.051	1358.063
10.0	1348.179	1345.214	1349.167	1349.167	1346.202
12.5	1335.330	1330.388	1336.318	1336.318	1331.376
15.0	1320.504	1313.585	1320.504	1321.492	1314.573
17.5	1301.724	1291.840	1301.724	1303.701	1294.805
20.0	1278.002	1269.107	1278.991	1279.979	1274.049
22.5	1253.293	1242.420	1254.281	1255.269	1249.339
25.0	1226.606	1216.722	1227.594	1228.582	1222.652
27.5	1194.977	1186.081	1196.954	1197.942	1192.012
30.0	1162.360	1154.452	1164.336	1164.336	1158.406
32.5	1127.765	1117.882	1129.742	1128.754	1122.823
35.0	1091.195	1080.322	1091.195	1091.195	1087.241
37.5	1048.694	1042.763	1053.636	1051.659	1046.717
40.0	1008.169	1002.239	1011.134	1009.157	1003.227
42.5	964.679	957.761	966.656	964.679	959.737
45.0	918.225	914.271	922.178	918.225	915.259
47.5	871.770	867.816	874.735	869.793	866.828
50.0	822.350	818.396	826.303	820.373	817.408
52.5	770.953	769.964	775.895	771.941	767.987
55.0	720.544	720.544	722.521	719.556	717.579
57.5	668.159	667.171	669.148	666.182	664.205
60.0	613.797	612.809	616.762	613.797	612.809
62.5	560.423	559.435	562.400	560.423	559.435
65.0	503.096	505.073	506.061	505.073	505.073
67.5	449.722	450.711	452.688	452.688	452.688
70.0	394.372	394.372	398.326	397.337	398.326
72.5	340.998	340.998	343.964	342.975	343.964
75.0	286.636	287.625	290.590	291.578	292.567
77.5	233.263	235.239	238.205	241.170	241.170
80.0	183.843	183.843	187.796	189.773	189.773
82.5	133.434	135.411	138.376	139.364	141.341
85.0	84.014	86.979	89.945	91.921	91.921
87.5	37.559	40.524	43.490	46.455	46.455
90.0	1.977	5.930	8.896	12.849	14.826
92.5	8.131	20.836	42.179	21.852	19.819
95.0	19.311	44.212	108.243	51.835	40.655
97.5	32.524	65.048	200.733	97.572	70.638
100.0	46.245	84.359	303.895	167.193	116.374
102.5	60.982	98.588	382.663	281.026	189.045
105.0	74.703	113.833	420.777	460.924	323.206
107.5	88.932	128.063	424.334	667.755	529.021
110.0	104.178	142.800	414.171	807.506	753.638
112.5	119.424	157.537	404.515	853.751	885.258
115.0	134.161	173.291	399.942	855.784	935.060
117.5	148.898	188.537	400.450	835.456	948.273
120.0	161.603	202.258	400.958	804.457	934.552
122.5	173.799	213.946	401.974	771.425	907.110
125.0	183.963	224.110	403.499	739.917	872.554
127.5	194.127	233.765	403.499	707.902	835.964
130.0	204.290	242.404	404.007	677.411	797.851
132.5	212.929	249.519	402.483	647.936	759.228

CANDELA TABULATION - (Cont.)

135.0	222.077	256.125	399.433	618.969	718.065
137.5	231.224	263.240	395.876	591.527	681.476
140.0	239.863	269.846	389.778	562.561	643.362
142.5	248.502	275.945	383.680	533.086	603.216
145.0	257.142	282.043	376.565	505.136	563.577
147.5	265.273	287.125	369.959	477.186	527.496
150.0	272.895	292.206	363.861	451.776	492.431
152.5	280.010	296.780	358.270	429.925	462.448
155.0	287.633	301.354	352.172	410.105	435.006
157.5	293.223	304.911	347.090	392.319	411.630
160.0	299.321	308.468	342.009	376.565	390.794
162.5	304.403	311.517	337.435	363.352	374.024
165.0	309.485	314.567	333.369	352.172	359.287
167.5	313.042	316.599	329.812	342.517	347.599
170.0	316.091	318.632	326.763	334.894	337.943
172.5	319.140	320.665	325.238	329.812	331.337
175.0	320.665	321.173	323.206	325.238	326.255
177.5	321.681	321.681	322.189	322.697	323.206
180.0	322.189	322.189	322.189	322.189	322.189

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	501.74	N.A.	8.10
0-30	1065.73	N.A.	17.20
0-40	1746.44	N.A.	28.30
0-60	3097.63	N.A.	50.10
0-80	3904.81	N.A.	63.20
0-90	4004.95	N.A.	64.80
10-90	3875.15	N.A.	62.70
20-40	1244.69	N.A.	20.10
20-50	1952.36	N.A.	31.60
40-70	1851.8	N.A.	30.00
60-80	807.17	N.A.	13.10
70-80	306.58	N.A.	5.00
80-90	100.14	N.A.	1.60
90-110	391.67	N.A.	6.30
90-120	870.97	N.A.	14.10
90-130	1295.95	N.A.	21.00
90-150	1882.23	N.A.	30.50
90-180	2173.71	N.A.	35.20
110-180	1782.04	N.A.	28.80
0-180	6178.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

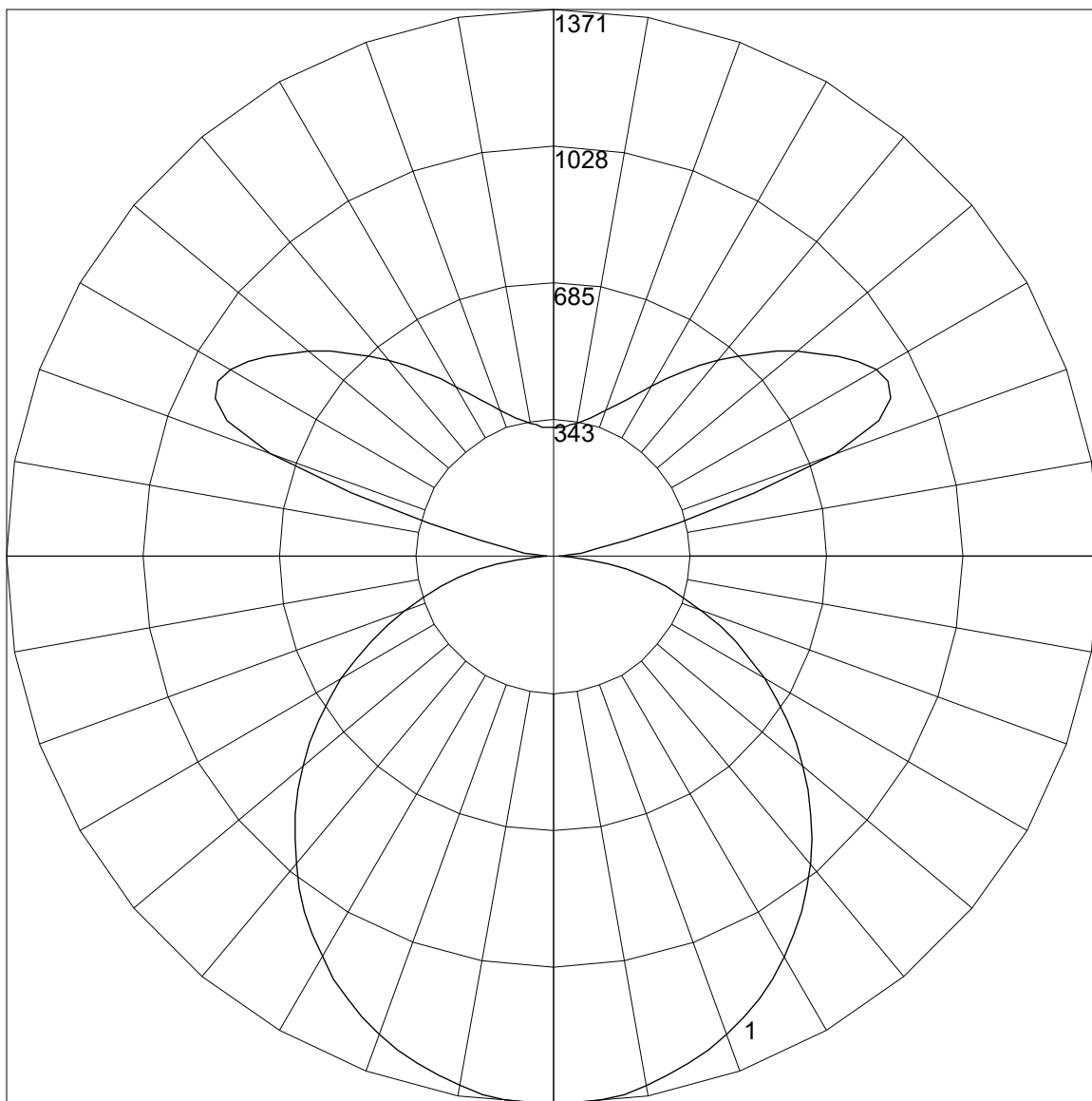
Zone	Lumens
0-10	129.79
10-20	371.95
20-30	563.98
30-40	680.71
40-50	707.67
50-60	643.53
60-70	500.60
70-80	306.58
80-90	100.14
90-100	73.75
100-110	317.92
110-120	479.30
120-130	424.98
130-140	338.37
140-150	247.91
150-160	165.56
160-170	94.93
170-180	30.99

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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65
1	101	96	92	88	94	90	87	83	80	77	74	70	68	66	61	59	58	54
2	91	84	77	72	86	79	73	68	70	65	61	61	58	55	53	51	48	44
3	83	73	65	59	78	69	62	56	61	56	51	54	49	46	47	44	41	37
4	76	65	56	50	71	61	54	48	54	48	43	48	43	39	42	38	35	32
5	70	58	49	43	65	54	47	41	48	42	37	43	38	34	38	34	30	27
6	64	52	43	37	60	49	41	36	44	37	32	39	33	29	34	30	27	24
7	59	47	38	32	56	44	37	31	39	33	29	35	30	26	31	27	24	21
8	55	42	34	29	52	40	33	28	36	30	25	32	27	23	28	24	21	19
9	51	39	31	26	48	37	30	25	33	27	23	30	24	21	26	22	19	17
10	48	36	28	23	45	34	27	22	30	25	21	27	22	19	24	20	17	15

POLAR GRAPH



Maximum Candela = 1370.912 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)