

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-H-V-835-WSO-F-ITL92314.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92314.007 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/01/19
[ISSUEDATE]01/06/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-X-ID-4ft-H-V-835-WSO-F
[INPUT_ELECTRICAL]120.0 VOLTS, 61.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 61.3 WATTS
[ABSOLUTE LUMENS]7290
[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	7290
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	61
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
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	12.292	31.498	63.764	33.034	29.961
95.0	29.193	66.837	163.635	78.361	61.459
97.5	49.167	98.335	303.455	147.502	106.785
100.0	69.910	127.528	459.408	252.751	175.927
102.5	92.189	149.039	578.486	424.837	285.786
105.0	112.931	172.086	636.104	696.795	488.601
107.5	134.442	193.597	641.481	1009.469	799.739
110.0	157.489	215.876	626.116	1220.735	1139.301
112.5	180.537	238.155	611.520	1290.645	1338.276
115.0	202.816	261.970	604.606	1293.718	1413.563
117.5	225.095	285.017	605.374	1262.988	1433.538
120.0	244.301	305.760	606.142	1216.126	1412.795
122.5	262.738	323.430	607.679	1166.190	1371.310
125.0	278.103	338.794	609.983	1118.559	1319.070
127.5	293.468	353.391	609.983	1070.160	1263.756
130.0	308.833	366.451	610.752	1024.065	1206.138
132.5	321.893	377.206	608.447	979.507	1147.752

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CANDELA TABULATION - (Cont.)

135.0	335.721	387.193	603.837	935.717	1085.524
137.5	349.550	397.949	598.460	894.232	1030.211
140.0	362.610	407.936	589.241	850.443	972.593
142.5	375.670	417.155	580.022	805.885	911.902
145.0	388.730	426.374	569.267	763.631	851.979
147.5	401.022	434.056	559.279	721.378	797.434
150.0	412.545	441.739	550.061	682.966	744.426
152.5	423.301	448.653	541.610	649.932	699.099
155.0	434.824	455.567	532.391	619.971	657.614
157.5	443.275	460.945	524.709	593.082	622.275
160.0	452.494	466.322	517.026	569.267	590.777
162.5	460.176	470.932	510.112	549.292	565.425
165.0	467.859	475.541	503.966	532.391	543.146
167.5	473.236	478.614	498.588	517.794	525.477
170.0	477.846	481.687	493.979	506.271	510.880
172.5	482.455	484.760	491.674	498.588	500.893
175.0	484.760	485.528	488.601	491.674	493.211
177.5	486.296	486.296	487.065	487.833	488.601
180.0	487.065	487.065	487.065	487.065	487.065

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	501.74	N.A.	6.90
0-30	1065.73	N.A.	14.60
0-40	1746.44	N.A.	24.00
0-60	3097.63	N.A.	42.50
0-80	3904.81	N.A.	53.60
0-90	4004.95	N.A.	54.90
10-90	3875.15	N.A.	53.20
20-40	1244.69	N.A.	17.10
20-50	1952.36	N.A.	26.80
40-70	1851.8	N.A.	25.40
60-80	807.17	N.A.	11.10
70-80	306.58	N.A.	4.20
80-90	100.14	N.A.	1.40
90-110	591.47	N.A.	8.10
90-120	1316.04	N.A.	18.10
90-130	1958.5	N.A.	26.90
90-150	2844.8	N.A.	39.00
90-180	3285.43	N.A.	45.10
110-180	2693.97	N.A.	37.00
0-180	7290.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

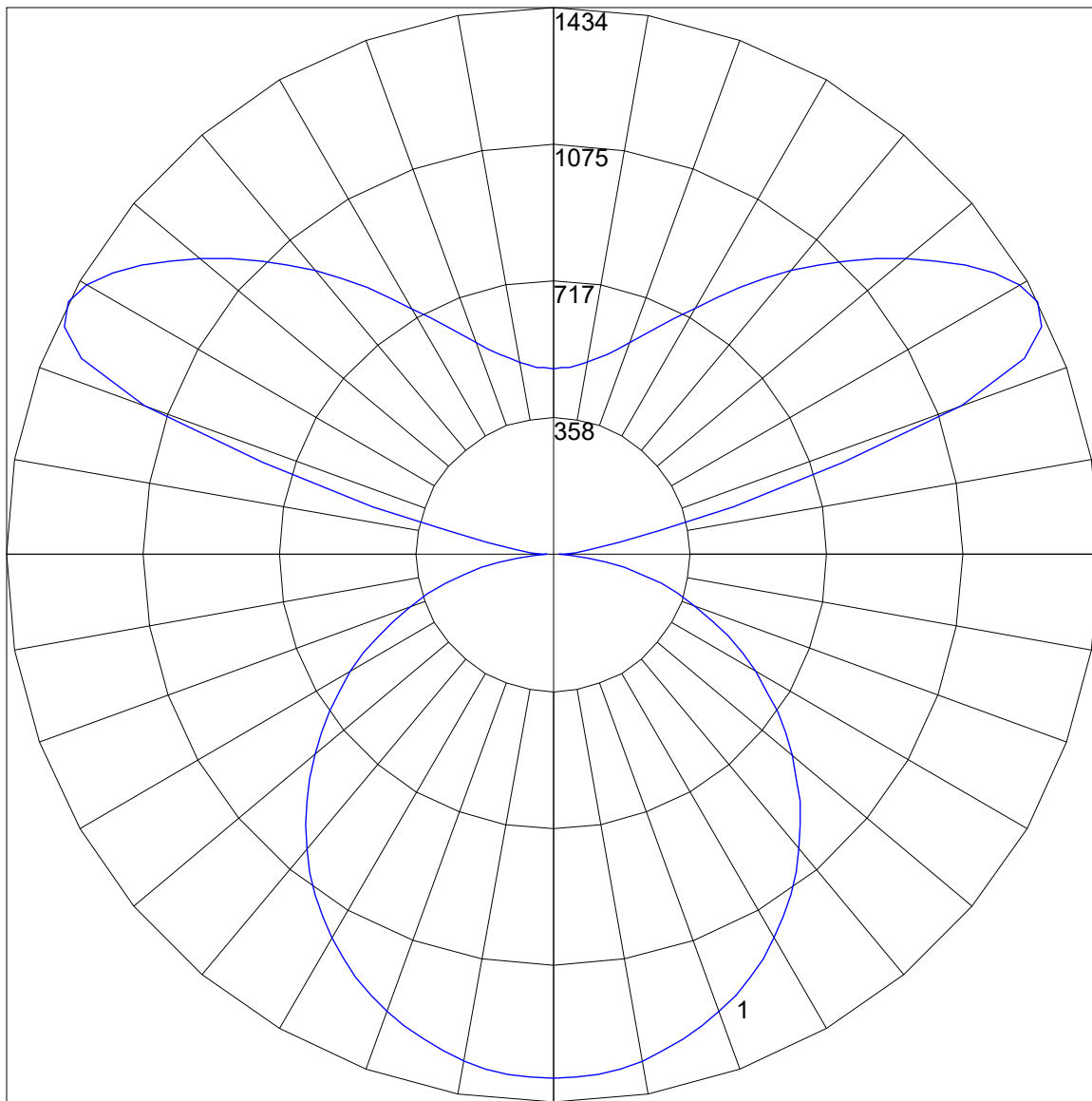
Zone	Lumens
0-10	129.79
10-20	371.95
20-30	563.98
30-40	680.71
40-50	707.67
50-60	643.53
60-70	500.60
70-80	306.58
80-90	100.14
90-100	110.85
100-110	480.61
110-120	724.58
120-130	642.46
130-140	511.52
140-150	374.77
150-160	250.29
160-170	143.51
170-180	46.84

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	94	90	86	91	87	84	81	75	72	70	64	62	60	53	52	51	46
2	89	82	75	70	83	76	71	66	65	61	58	55	52	50	46	44	42	38
3	81	72	64	58	75	67	60	55	57	52	48	49	45	42	41	38	36	32
4	74	63	55	49	69	59	52	46	51	45	41	43	39	36	36	33	30	27
5	68	56	48	42	63	53	45	40	45	40	35	39	34	31	33	29	26	23
6	63	50	42	36	58	47	40	34	41	35	30	35	30	27	30	26	23	20
7	58	45	37	32	54	43	35	30	37	31	27	32	27	24	27	23	20	18
8	54	41	33	28	50	39	31	27	34	28	24	29	24	21	25	21	18	16
9	50	38	30	25	46	35	28	24	31	25	21	27	22	19	23	19	16	14
10	47	35	27	22	43	32	26	21	28	23	19	25	20	17	21	17	15	13

POLAR GRAPH



Maximum Candela = 1433.538 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)