

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-2-I-4FT-H-835-ASY-ITL89599.603.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89599.603 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/24/17
[ISSUE DATE]02/26/18
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-I-4ft-H-835-ASY
[INPUT_ELECTRICAL]120.0 VOLTS, 28.2 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 29.0 WATTS
[OTHER]see www.finelite.com for source file ITL89599. 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]3346

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	28.2
Ballast Factor	1.00
CIE Type	Indirect
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)	0.18 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>85.0</u>
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	17.890	13.223	8.556	4.667	0.778
92.5	60.670	61.448	61.448	59.892	54.448	49.003	49.003	43.558	41.225	32.669
95.0	121.340	122.896	122.118	119.785	115.118	111.229	108.117	100.339	89.450	67.671
97.5	184.344	185.900	185.122	182.010	184.344	182.788	178.899	163.343	140.008	98.783
100.0	238.791	241.125	243.458	250.459	267.571	267.571	259.793	229.458	191.344	129.119
102.5	306.462	309.573	319.685	340.686	367.910	367.132	346.131	298.684	235.680	158.676
105.0	399.023	403.690	427.024	466.693	486.139	478.361	436.358	364.799	274.571	189.789
107.5	542.142	540.587	581.033	607.479	621.480	597.368	529.697	420.802	310.351	219.346
110.0	724.930	720.263	747.487	762.266	764.599	711.707	605.924	468.249	342.242	250.459
112.5	905.385	899.940	920.942	922.497	896.051	805.046	664.260	507.140	374.133	279.238
115.0	1080.395	1074.173	1082.729	1060.950	996.390	875.828	708.596	541.364	404.468	311.129
117.5	1221.181	1214.958	1204.069	1165.178	1071.839	923.275	741.265	570.144	434.025	343.020
120.0	1321.520	1316.075	1293.519	1234.404	1118.508	952.055	766.155	597.368	465.138	375.688
122.5	1386.079	1381.412	1349.522	1274.073	1143.399	971.500	787.156	623.813	496.251	408.357
125.0	1416.414	1413.303	1375.968	1289.629	1153.510	984.723	806.602	649.482	527.364	440.247
127.5	1422.637	1420.304	1379.857	1288.852	1155.844	993.279	826.047	676.705	558.476	471.360
130.0	1411.748	1409.414	1368.967	1280.296	1153.510	1000.279	846.271	703.929	590.367	504.807
132.5	1391.524	1390.746	1352.633	1267.850	1149.621	1009.613	864.938	731.931	622.258	538.253

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

135.0	1368.967	1367.412	1331.632	1253.072	1146.510	1018.947	885.162	759.155	653.371	571.699
137.5	1346.410	1343.299	1311.408	1240.627	1144.954	1029.059	906.163	787.156	683.706	605.146
140.0	1322.298	1320.742	1293.519	1230.515	1144.954	1039.171	926.386	815.158	714.819	638.592
142.5	1302.852	1302.075	1278.740	1222.737	1145.732	1049.282	947.388	843.159	745.154	672.816
145.0	1286.518	1285.740	1264.739	1214.958	1146.510	1060.950	968.389	868.050	774.711	704.707
147.5	1271.739	1270.184	1252.294	1207.958	1147.288	1071.839	987.834	892.162	803.490	736.598
150.0	1255.405	1255.405	1239.849	1201.735	1148.844	1082.729	1004.169	913.163	830.714	766.933
152.5	1242.182	1240.627	1228.959	1197.069	1151.177	1090.507	1018.947	932.609	856.382	795.712
155.0	1231.293	1228.959	1219.625	1191.624	1150.399	1095.174	1029.059	948.943	878.939	822.936
157.5	1220.403	1218.070	1208.736	1184.623	1146.510	1095.174	1036.059	962.944	899.940	849.382
160.0	1205.625	1203.291	1193.957	1172.178	1138.732	1091.285	1039.171	973.834	917.830	872.717
162.5	1186.179	1184.623	1175.290	1156.622	1124.731	1083.506	1039.171	981.612	934.165	893.718
165.0	1161.289	1159.733	1150.399	1133.287	1107.619	1072.617	1035.282	987.057	946.610	911.608
167.5	1131.731	1130.176	1121.620	1108.397	1086.618	1057.838	1028.281	988.612	955.166	926.386
170.0	1097.507	1095.952	1089.729	1078.062	1062.505	1041.504	1017.392	987.057	962.166	938.054
172.5	1062.505	1061.727	1056.283	1049.282	1037.615	1021.281	1004.169	983.167	964.500	945.832
175.0	1025.170	1024.392	1020.503	1015.836	1008.836	999.502	988.612	975.389	962.944	950.499
177.5	987.057	987.057	985.501	983.167	980.056	976.167	970.722	963.722	958.277	952.055
180.0	950.499	950.499	950.499	950.499	950.499	950.499	950.499	950.499	950.499	950.499

**Vert.
Angles**

Horizontal Angles

	90.0	95.0	112.5	135.0	157.5	180.0
0.0	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.000	0.000	0.000
7.5	0.000	0.000	0.000	0.000	0.000	0.000
10.0	0.000	0.000	0.000	0.000	0.000	0.000
12.5	0.000	0.000	0.000	0.000	0.000	0.000
15.0	0.000	0.000	0.000	0.000	0.000	0.000
17.5	0.000	0.000	0.000	0.000	0.000	0.000
20.0	0.000	0.000	0.000	0.000	0.000	0.000
22.5	0.000	0.000	0.000	0.000	0.000	0.000
25.0	0.000	0.000	0.000	0.000	0.000	0.000
27.5	0.000	0.000	0.000	0.000	0.000	0.000
30.0	0.000	0.000	0.000	0.000	0.000	0.000
32.5	0.000	0.000	0.000	0.000	0.000	0.000
35.0	0.000	0.000	0.000	0.000	0.000	0.000
37.5	0.000	0.000	0.000	0.000	0.000	0.000
40.0	0.000	0.000	0.000	0.000	0.000	0.000
42.5	0.000	0.000	0.000	0.000	0.000	0.000
45.0	0.000	0.000	0.000	0.000	0.000	0.000
47.5	0.000	0.000	0.000	0.000	0.000	0.000
50.0	0.000	0.000	0.000	0.000	0.000	0.000
52.5	0.000	0.000	0.000	0.000	0.000	0.000
55.0	0.000	0.000	0.000	0.000	0.000	0.000
57.5	0.000	0.000	0.000	0.000	0.000	0.000
60.0	0.000	0.000	0.000	0.000	0.000	0.000
62.5	0.000	0.000	0.000	0.000	0.000	0.000
65.0	0.000	0.000	0.000	0.000	0.000	0.000
67.5	0.000	0.000	0.000	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

82.5	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.778	7.778	15.556	20.223	21.001
92.5	18.668	23.335	26.446	32.669	35.002	35.780
95.0	45.892	49.003	53.670	63.781	64.559	61.448
97.5	74.671	74.671	80.116	95.672	101.117	98.783
100.0	104.228	100.339	107.339	126.007	137.675	136.897
102.5	133.008	126.785	137.675	158.676	171.121	171.899
105.0	162.565	152.453	167.232	196.789	204.567	203.789
107.5	192.900	180.455	193.678	226.346	239.569	235.680
110.0	223.235	209.234	217.790	257.459	270.682	270.682
112.5	253.570	238.014	241.125	287.794	304.906	304.906
115.0	285.461	266.793	263.682	315.796	339.908	341.464
117.5	318.129	296.350	284.683	341.464	372.577	375.688
120.0	350.020	326.685	306.462	364.021	402.912	407.579
122.5	381.911	357.020	328.241	385.022	430.914	437.136
125.0	413.801	388.133	350.798	403.690	457.360	464.360
127.5	444.914	418.468	372.577	420.024	479.139	490.028
130.0	477.583	449.581	393.578	434.025	496.251	512.585
132.5	510.251	482.250	414.579	447.248	506.362	528.141
135.0	543.698	514.141	434.803	459.693	514.141	535.920
137.5	577.144	546.809	457.360	470.583	519.585	539.031
140.0	609.813	579.478	481.472	482.250	522.697	540.587
142.5	642.481	612.146	509.474	493.917	525.030	539.031
145.0	675.150	645.593	539.809	505.585	527.364	537.475
147.5	707.040	678.261	570.144	517.252	530.475	537.475
150.0	739.709	710.152	598.923	530.475	535.920	538.253
152.5	770.044	741.265	630.814	547.587	541.364	541.364
155.0	798.824	770.822	662.705	571.699	550.698	546.031
157.5	826.047	799.601	693.818	605.146	564.699	556.921
160.0	850.938	826.825	729.597	643.259	587.256	573.255
162.5	873.494	851.715	765.377	681.372	625.369	603.590
165.0	893.718	875.050	802.713	719.486	672.038	650.259
167.5	910.830	894.496	834.603	760.710	715.597	699.262
170.0	924.053	911.608	863.383	806.602	763.822	747.487
172.5	934.942	925.609	891.384	850.160	819.047	805.824
175.0	944.276	937.276	914.719	889.051	869.605	861.827
177.5	948.943	945.832	934.165	922.497	913.941	909.274
180.0	950.499	950.499	950.499	950.499	950.499	950.499

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	1.26	N.A.	0.00
10-90	1.26	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	1.26	N.A.	0.00
90-110	402.29	N.A.	12.00
90-120	934.69	N.A.	27.90
90-130	1545.32	N.A.	46.20
90-150	2613.91	N.A.	78.10
90-180	3344.53	N.A.	100.00
110-180	2942.24	N.A.	87.90
0-180	3345.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	1.26
90-100	93.57
100-110	308.72
110-120	532.40
120-130	610.63
130-140	574.08
140-150	494.51
150-160	387.63
160-170	253.53
170-180	89.47

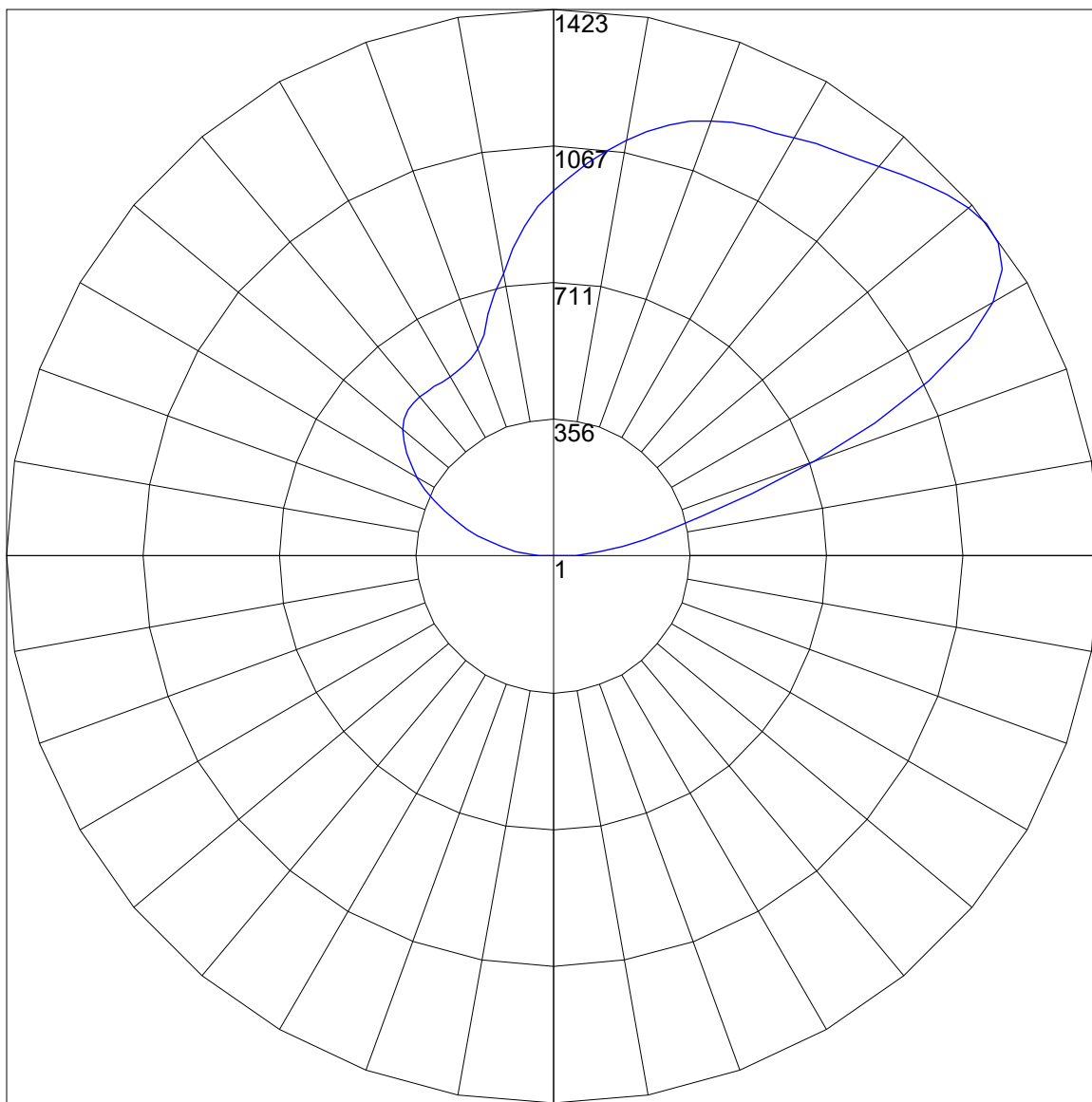
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1422.637 Located At Horizontal Angle = 0, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)