

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-WS-6W-6D-4FT-H-8-35-ITL86717.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL86717.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]02/15/16
[ISSUEDATE]03/30/16
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-WS-6W-6D-4ft-H-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.8 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.2 WATTS
[ABSOLUTE]LUMENS]2320
[OTHER]see www.finelite.com for source file ITL86717. 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	2320
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	28.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.66
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.49 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.53 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3692	3922	4025
55	3005	3196	3573
65	2367	2479	3035
75	1765	1756	2324
85	1181	1099	1096

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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	990.064	990.064	990.064	990.064	990.064	990.064	990.064	990.064	990.064	990.064
2.5	1020.396	1018.840	1014.951	1014.174	1011.063	1005.618	1001.730	996.286	993.175	990.841
5.0	1066.282	1066.282	1061.616	1056.949	1047.616	1035.173	1021.951	1007.174	993.952	986.953
7.5	1109.836	1108.280	1102.836	1095.836	1081.837	1063.949	1043.728	1020.396	997.063	980.731
10.0	1147.167	1147.167	1139.390	1130.057	1112.947	1088.837	1063.949	1032.839	998.619	971.398
12.5	1176.721	1175.166	1168.166	1156.500	1137.057	1110.613	1076.393	1037.506	995.508	960.509
15.0	1198.498	1196.943	1189.943	1176.721	1155.722	1123.835	1085.726	1040.617	990.841	946.510
17.5	1214.831	1212.497	1204.720	1191.498	1166.611	1132.390	1090.392	1039.839	983.064	930.178
20.0	1223.386	1221.830	1214.831	1200.054	1173.610	1136.279	1091.170	1035.950	974.509	913.067
22.5	1228.052	1225.719	1217.942	1201.609	1175.944	1135.501	1088.059	1028.951	962.065	892.846
25.0	1225.719	1224.164	1216.386	1198.498	1171.277	1130.057	1079.504	1016.507	946.510	871.069
27.5	1219.497	1217.164	1209.386	1190.721	1162.722	1119.946	1067.838	1002.507	928.622	847.737
30.0	1205.498	1203.942	1196.943	1177.499	1150.278	1106.725	1053.061	986.175	908.401	822.072
32.5	1184.499	1182.166	1175.944	1158.056	1132.390	1088.837	1034.395	965.954	885.846	794.851
35.0	1152.611	1151.834	1147.167	1133.946	1109.058	1067.060	1012.618	943.399	861.736	766.074
37.5	1115.280	1115.280	1110.613	1099.725	1080.282	1042.172	987.730	918.512	836.071	735.742
40.0	1074.060	1074.837	1069.393	1060.060	1043.728	1011.063	959.732	891.291	806.517	704.633
42.5	1031.284	1031.284	1025.840	1016.507	1001.730	976.842	929.400	861.736	776.963	672.746
45.0	986.175	985.397	980.731	971.398	956.621	935.622	894.402	829.849	745.853	639.303
47.5	938.733	938.733	933.289	922.400	909.179	888.957	855.515	796.406	712.410	605.082
50.0	892.068	892.846	885.846	874.958	860.181	841.515	812.739	759.852	678.967	570.862
52.5	844.626	845.404	838.404	825.960	810.406	791.740	766.852	722.521	643.191	536.641
55.0	795.629	796.406	789.407	776.963	760.630	740.409	715.521	681.301	608.971	500.865
57.5	747.409	748.186	741.187	730.298	710.855	692.967	665.746	636.969	572.417	465.867
60.0	698.411	697.633	692.189	680.523	659.524	639.303	614.415	589.527	533.530	430.868
62.5	650.191	649.413	643.191	629.970	609.749	591.083	566.195	540.530	494.643	395.092
65.0	601.971	601.193	594.971	580.972	559.973	539.752	514.864	490.754	453.423	359.316
67.5	554.529	552.973	546.752	532.752	510.198	489.977	464.311	440.201	410.647	323.540
70.0	507.865	510.198	499.309	485.310	461.978	438.646	413.758	389.648	364.760	287.764
72.5	461.978	463.533	452.645	438.646	417.647	391.203	364.760	339.873	317.318	251.988
75.0	416.869	417.647	406.758	394.314	373.315	346.095	318.096	291.653	270.654	216.212
77.5	373.315	374.093	363.983	351.539	330.540	303.319	276.098	244.988	221.656	181.214
80.0	330.540	331.317	321.985	307.985	289.319	262.876	234.878	201.435	175.769	144.660
82.5	289.319	290.097	280.764	269.876	250.432	224.767	197.546	162.548	132.994	108.884
85.0	248.877	249.655	240.322	230.211	212.323	187.435	161.770	129.883	94.107	68.441
87.5	210.768	210.768	202.990	192.880	174.992	151.659	127.549	97.995	66.108	27.221
90.0	171.881	171.881	167.214	157.881	139.993	118.994	97.218	70.774	43.553	8.555
92.5	122.105	122.883	117.439	108.884	94.107	74.663	55.997	35.776	20.221	3.889
95.0	73.885	73.885	70.774	63.775	53.664	42.776	34.221	24.888	13.222	1.555
97.5	50.553	50.553	48.998	46.664	42.776	36.554	29.554	20.221	9.333	0.778
100.0	45.109	45.109	44.331	41.998	38.109	32.665	25.665	17.110	7.777	0.778
102.5	41.998	41.998	41.220	38.887	34.998	29.554	23.332	15.555	4.666	0.778
105.0	38.887	38.887	38.109	35.776	32.665	27.221	21.777	13.999	2.333	0.778
107.5	37.332	36.554	35.776	34.221	30.332	26.443	20.221	10.111	1.555	0.778
110.0	34.998	34.998	34.221	32.665	29.554	24.888	19.444	7.000	1.555	0.000
112.5	34.221	34.221	33.443	31.110	27.999	24.110	14.777	3.889	0.778	0.000
115.0	33.443	33.443	31.887	30.332	27.221	22.554	10.111	1.555	0.778	0.000
117.5	32.665	31.887	31.110	29.554	26.443	16.333	6.222	1.555	0.778	0.000
120.0	31.110	31.110	30.332	28.776	21.777	11.666	3.111	0.778	0.778	0.000
122.5	30.332	30.332	28.776	24.110	15.555	7.777	0.778	0.778	0.778	0.000
125.0	25.665	24.888	21.777	17.110	10.111	3.889	0.778	0.778	0.778	0.000
127.5	17.888	17.888	15.555	11.666	6.222	0.778	0.778	0.778	0.000	0.000
130.0	12.444	11.666	10.111	7.000	2.333	0.000	0.000	0.000	0.000	0.000
132.5	7.000	7.000	5.444	3.111	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

135.0	3.111	3.111	1.555	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	990.064	990.064	990.064	990.064	990.064
2.5	989.286	979.175	961.287	939.510	928.622
5.0	984.619	946.510	877.291	816.628	793.295
7.5	977.620	896.735	775.407	681.301	647.080
10.0	965.954	839.182	668.857	545.196	500.865
12.5	952.732	772.296	563.084	411.425	356.983
15.0	935.622	706.188	454.978	283.098	221.656
17.5	916.956	641.636	350.761	164.881	111.995
20.0	895.957	573.972	251.988	62.997	24.888
22.5	872.625	506.309	160.215	20.999	13.999
25.0	846.182	438.646	77.774	14.777	10.111
27.5	818.961	373.315	29.554	11.666	7.777
30.0	790.184	310.318	20.999	10.111	7.000
32.5	758.297	248.877	17.110	7.777	5.444
35.0	725.632	190.546	13.999	6.222	3.889
37.5	691.411	136.105	11.666	4.666	3.111
40.0	656.413	86.329	9.333	3.889	0.778
42.5	622.970	45.887	7.777	2.333	0.778
45.0	586.416	30.332	5.444	1.555	0.000
47.5	550.640	24.110	3.889	0.778	0.000
50.0	513.309	20.221	2.333	0.778	0.000
52.5	479.866	16.333	1.555	0.000	0.000
55.0	443.312	13.222	0.778	0.000	0.000
57.5	407.536	10.111	0.000	0.000	0.000
60.0	370.982	7.000	0.000	0.000	0.000
62.5	335.206	5.444	0.000	0.000	0.000
65.0	299.430	3.111	0.000	0.000	0.000
67.5	265.210	1.555	0.000	0.000	0.000
70.0	230.989	0.778	0.000	0.000	0.000
72.5	198.324	0.778	0.000	0.000	0.000
75.0	163.326	0.000	0.000	0.000	0.000
77.5	132.216	0.000	0.000	0.000	0.000
80.0	101.884	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

82.5	71.552	0.000	0.000	0.000	0.000
85.0	43.553	0.000	0.000	0.000	0.000
87.5	13.999	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	314.46	N.A.	13.60
0-30	623.06	N.A.	26.90
0-40	986.79	N.A.	42.50
0-60	1701.19	N.A.	73.30
0-80	2166.49	N.A.	93.40
0-90	2265.55	N.A.	97.60
10-90	2176.49	N.A.	93.80
20-40	672.33	N.A.	29.00
20-50	1044.46	N.A.	45.00
40-70	990.92	N.A.	42.70
60-80	465.30	N.A.	20.10
70-80	188.78	N.A.	8.10
80-90	99.06	N.A.	4.30
90-110	41.60	N.A.	1.80
90-120	50.28	N.A.	2.20
90-130	54.35	N.A.	2.30
90-150	54.76	N.A.	2.40
90-180	54.76	N.A.	2.40
110-180	13.16	N.A.	0.60
0-180	2320.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.06
10-20	225.40
20-30	308.60
30-40	363.73
40-50	372.13
50-60	342.27
60-70	276.52
70-80	188.78
80-90	99.06
90-100	28.99
100-110	12.61
110-120	8.69
120-130	4.07
130-140	0.40
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

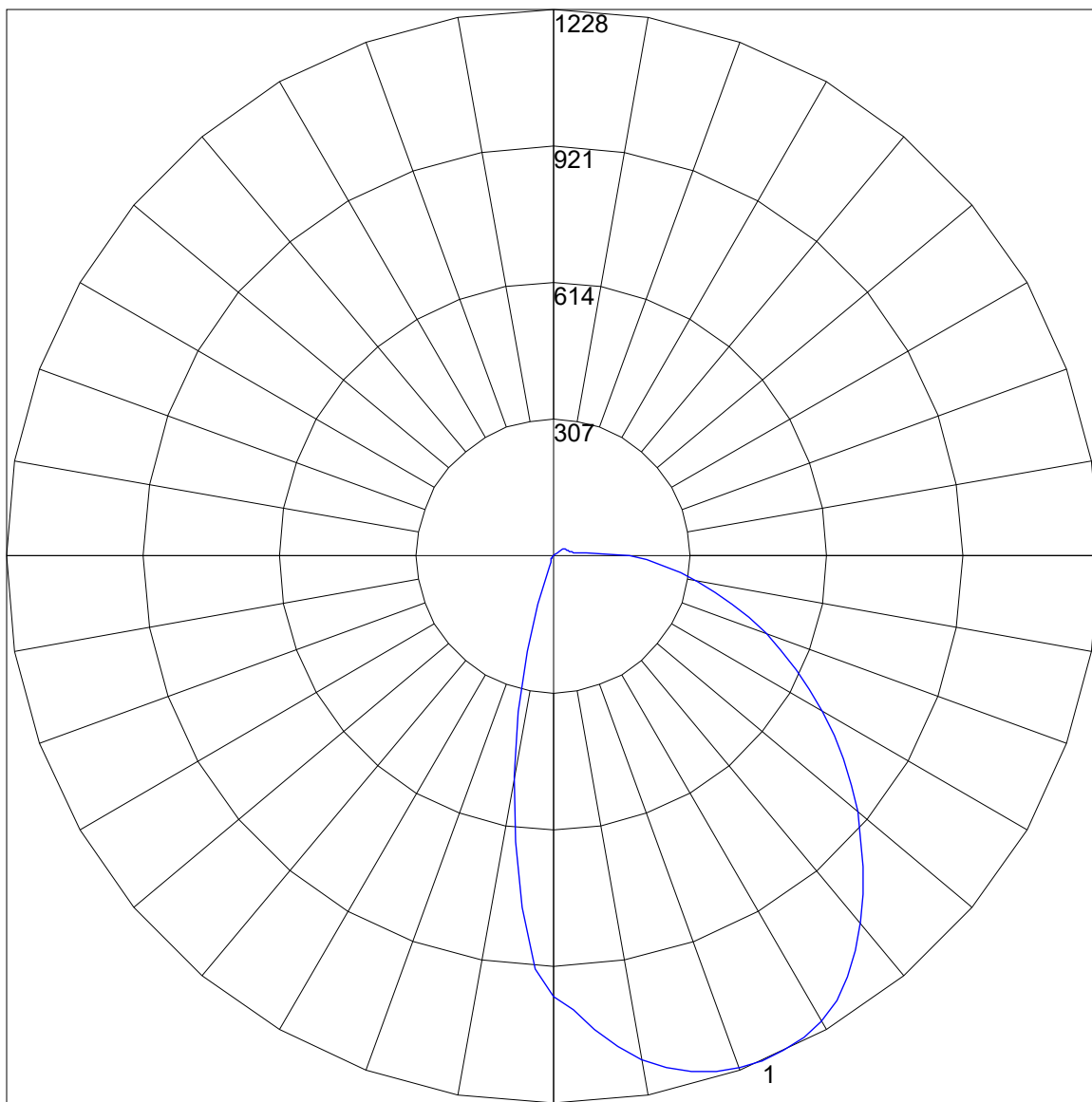
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	107	102	97	93	104	99	95	91	95	91	88	90	87	85	86	84	82	79
2	97	88	81	75	94	86	80	74	82	77	72	79	74	70	75	71	68	66
3	89	78	69	62	86	76	68	62	72	66	60	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	52	64	57	51	62	55	50	59	54	49	47
5	75	62	52	46	72	60	52	45	58	50	45	56	49	44	53	48	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	29	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 1228.052 Located At Horizontal Angle = 0, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)