

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-WG-6W-4D-4FT-V-8TW-ITL88850.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL88850.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]01/26/17
[ISSUEDATE]04/18/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-WG-6W-4D-4ft-V-8TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI's
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.5 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.4 WATTS
[ABSOLUTE]LUMENS]2616
[OTHER]see www.finelite.com for source file ITL88550. 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	2616
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	40.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.52
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.49 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1488	1698	10285
55	1531	1491	7627
65	2308	1700	5061
75	3309	2594	2761
85	262	311	650

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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	3371	3371	3371	3371	3371	3371	3371	3371	3371	3371
0.5	3259	3282	3285	3293	3300	3308	3321	3334	3349	3363
1.0	3172	3188	3193	3207	3223	3242	3268	3295	3326	3355
1.5	3079	3087	3095	3116	3140	3171	3211	3255	3301	3346
2.0	2980	2982	2996	3024	3058	3099	3155	3213	3275	3337
2.5	2879	2876	2892	2928	2972	3044	3095	3170	3250	3328
3.0	2731	2766	2785	2830	2882	2950	3034	3126	3223	3316
3.5	2616	2649	2675	2728	2791	2891	2973	3081	3194	3305
4.0	2501	2531	2561	2621	2698	2791	2911	3036	3167	3296
4.5	2380	2410	2443	2514	2601	2730	2846	2989	3139	3282
5.0	2258	2288	2325	2404	2500	2649	2780	2940	3107	3268
5.5	2138	2167	2209	2293	2400	2562	2712	2892	3076	3254
6.0	2019	2052	2094	2185	2302	2477	2643	2842	3044	3239
6.5	1902	1941	1984	2076	2202	2390	2574	2790	3012	3223
7.0	1798	1833	1880	1975	2104	2302	2502	2740	2979	3208
7.5	1730	1737	1782	1878	2009	2216	2431	2687	2945	3191
8.0	1635	1649	1691	1785	1920	2131	2361	2635	2912	3174
8.5	1549	1563	1608	1699	1833	2049	2290	2581	2877	3157
9.0	1466	1486	1529	1618	1751	1969	2220	2527	2843	3138
9.5	1390	1416	1457	1545	1674	1891	2150	2476	2809	3122
10.0	1344	1352	1392	1477	1601	1818	2083	2420	2772	3103
11.0	1219	1236	1276	1354	1473	1679	1951	2314	2701	3065
11.5	1181	1186	1224	1300	1414	1615	1889	2260	2663	3044
12.0	1130	1138	1176	1250	1359	1555	1828	2208	2627	3025
12.5	1081	1094	1131	1201	1308	1497	1769	2155	2589	3004
13.0	1049	1055	1089	1156	1261	1443	1714	2105	2553	2983
13.5	1004	1016	1050	1114	1215	1392	1658	2052	2517	2967
14.0	976	981	1014	1075	1171	1344	1607	2001	2478	2942
14.5	939	949	981	1038	1132	1297	1559	1952	2441	2929
15.0	915	918	948	1004	1094	1253	1510	1902	2403	2907
16.0	861	864	885	943	1025	1174	1421	1810	2329	2862
17.0	812	816	834	887	963	1102	1339	1722	2255	2814
18.0	765	772	790	837	908	1037	1263	1630	2184	2769
19.0	721	729	746	792	858	978	1192	1552	2114	2719
20.0	676	687	706	750	819	925	1128	1478	2046	2669
22.5	580	586	606	654	719	811	987	1311	1879	2541
25.0	512	517	531	568	631	718	871	1164	1722	2406
27.5	475	477	484	507	557	638	770	1044	1574	2269
30.0	448	450	454	467	500	569	686	932	1436	2126
32.5	405	410	422	436	459	511	615	831	1307	1982
35.0	366	368	381	401	425	466	553	747	1187	1838
37.5	351	352	355	367	393	429	500	673	1076	1695
40.0	336	338	339	346	361	396	454	606	972	1555
42.5	327	328	327	329	338	363	417	549	876	1417
45.0	320	320	320	317	320	335	383	496	786	1284
47.5	309	309	309	308	307	315	351	451	701	1155
50.0	312	311	303	298	297	298	322	408	626	1031
52.5	314	314	314	299	287	285	298	370	558	914
55.0	313	313	309	304	285	274	277	334	494	802
57.5	331	330	318	304	293	265	260	299	435	699
60.0	358	356	343	322	293	273	248	268	379	592
62.5	387	386	370	346	308	273	237	242	327	503
65.0	433	431	407	371	331	280	242	219	280	420
67.5	500	498	465	413	354	299	242	202	239	345

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CANDELA TABULATION - (Cont.)

70.0	577	573	534	471	392	317	249	190	198	279
72.5	621	616	583	522	437	341	259	190	166	220
75.0	546	548	535	510	453	365	269	189	139	166
77.5	379	385	389	396	387	350	275	188	120	119
80.0	130	140	162	204	241	250	241	183	111	80
82.5	37	38	39	43	67	104	146	151	103	48
85.0	36	36	37	37	36	35	41	75	83	28
87.5	35	35	36	36	35	33	31	28	36	20
90.0	34	34	35	34	33	31	29	26	22	12
92.5	32	32	33	33	32	30	27	23	18	8
95.0	31	31	32	32	30	28	25	20	14	4
97.5	29	30	30	30	28	26	22	17	11	2
100.0	28	28	29	28	27	24	20	15	7	1
102.5	26	26	27	26	24	22	18	12	5	1
105.0	24	24	25	24	22	19	15	8	3	1
107.5	22	22	23	22	20	17	12	6	3	1
110.0	20	20	20	19	17	14	8	4	2	0
112.5	17	17	17	16	14	10	5	3	1	0
115.0	15	14	15	13	11	7	4	3	1	0
117.5	12	11	11	10	8	4	3	2	1	0
120.0	8	8	8	7	4	4	3	2	1	0
122.5	5	5	4	3	3	3	2	2	1	0
125.0	1	1	1	2	2	2	2	1	0	0
127.5	0	0	1	2	2	2	2	1	0	0
130.0	0	0	1	1	2	2	1	1	0	0
132.5	0	0	0	1	1	1	1	1	0	0
135.0	0	0	0	0	1	1	1	1	0	0
137.5	0	0	0	0	0	1	1	1	0	0
140.0	0	0	0	0	0	1	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	3371	3371	3371	3371	3371
0.5	3371	3403	3430	3446	3452
1.0	3371	3434	3483	3509	3518
1.5	3369	3461	3527	3557	3562
2.0	3369	3487	3560	3587	3588
2.5	3367	3509	3584	3598	3592
3.0	3364	3527	3597	3592	3572

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CANDELA TABULATION - (Cont.)

3.5	3361	3542	3598	3567	3534
4.0	3358	3554	3586	3526	3478
4.5	3354	3560	3566	3470	3406
5.0	3348	3562	3535	3403	3323
5.5	3340	3560	3494	3323	3228
6.0	3333	3555	3445	3235	3126
6.5	3325	3543	3388	3142	3017
7.0	3317	3528	3325	3041	2903
7.5	3306	3509	3257	2963	2785
8.0	3297	3488	3184	2856	2664
8.5	3290	3462	3107	2745	2540
9.0	3277	3434	3026	2631	2415
9.5	3268	3402	2944	2515	2290
10.0	3256	3363	2858	2399	2160
11.0	3230	3282	2682	2162	1907
11.5	3215	3237	2591	2045	1844
12.0	3201	3188	2501	1927	1658
12.5	3186	3140	2406	1810	1599
13.0	3171	3092	2312	1697	1484
13.5	3156	3041	2219	1586	1373
14.0	3137	2989	2125	1475	1266
14.5	3120	2938	2032	1370	1167
15.0	3103	2884	1938	1271	1073
16.0	3066	2776	1759	1090	908
17.0	3026	2666	1585	934	771
18.0	2984	2541	1420	802	662
19.0	2941	2428	1263	694	575
20.0	2894	2313	1121	606	505
22.5	2772	2027	832	433	331
25.0	2639	1748	620	283	196
27.5	2499	1491	486	162	85
30.0	2353	1244	347	68	45
32.5	2203	1016	233	44	35
35.0	2051	834	130	35	30
37.5	1896	683	62	31	26
40.0	1742	560	44	27	16
42.5	1582	459	36	13	3
45.0	1433	362	31	5	3
47.5	1287	266	27	4	2
50.0	1145	185	19	4	1
52.5	1018	110	8	3	1
55.0	890	60	7	3	1
57.5	769	40	6	2	0
60.0	656	32	5	2	0
62.5	553	26	5	2	0
65.0	458	18	4	2	0
67.5	373	10	4	1	0
70.0	297	9	3	1	0
72.5	229	7	3	1	0
75.0	170	6	2	1	0
77.5	119	5	2	1	0
80.0	74	4	1	1	0
82.5	39	3	1	0	0
85.0	20	2	1	0	0
87.5	8	1	0	0	0
90.0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

92.5	0	0	0	0	0
95.0	0	0	0	0	0
97.5	0	0	0	0	0
100.0	0	0	0	0	0
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0
132.5	0	0	0	0	0
135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	773.33	N.A.	29.60
0-30	1245.54	N.A.	47.60
0-40	1632.1	N.A.	62.40
0-60	2169.68	N.A.	82.90
0-80	2551.65	N.A.	97.60
0-90	2589.46	N.A.	99.00
10-90	2317.85	N.A.	88.60
20-40	858.77	N.A.	32.80
20-50	1164.81	N.A.	44.50
40-70	737.68	N.A.	28.20
60-80	381.97	N.A.	14.60
70-80	181.87	N.A.	7.00
80-90	37.81	N.A.	1.40
90-110	21.41	N.A.	0.80
90-120	25.18	N.A.	1.00
90-130	26.02	N.A.	1.00
90-150	26.21	N.A.	1.00
90-180	26.21	N.A.	1.00
110-180	4.80	N.A.	0.20
0-180	2615.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	271.61
10-20	501.72
20-30	472.21
30-40	386.56
40-50	306.04
50-60	231.54
60-70	200.10
70-80	181.87
80-90	37.81
90-100	13.04
100-110	8.37
110-120	3.77
120-130	0.84
130-140	0.18
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

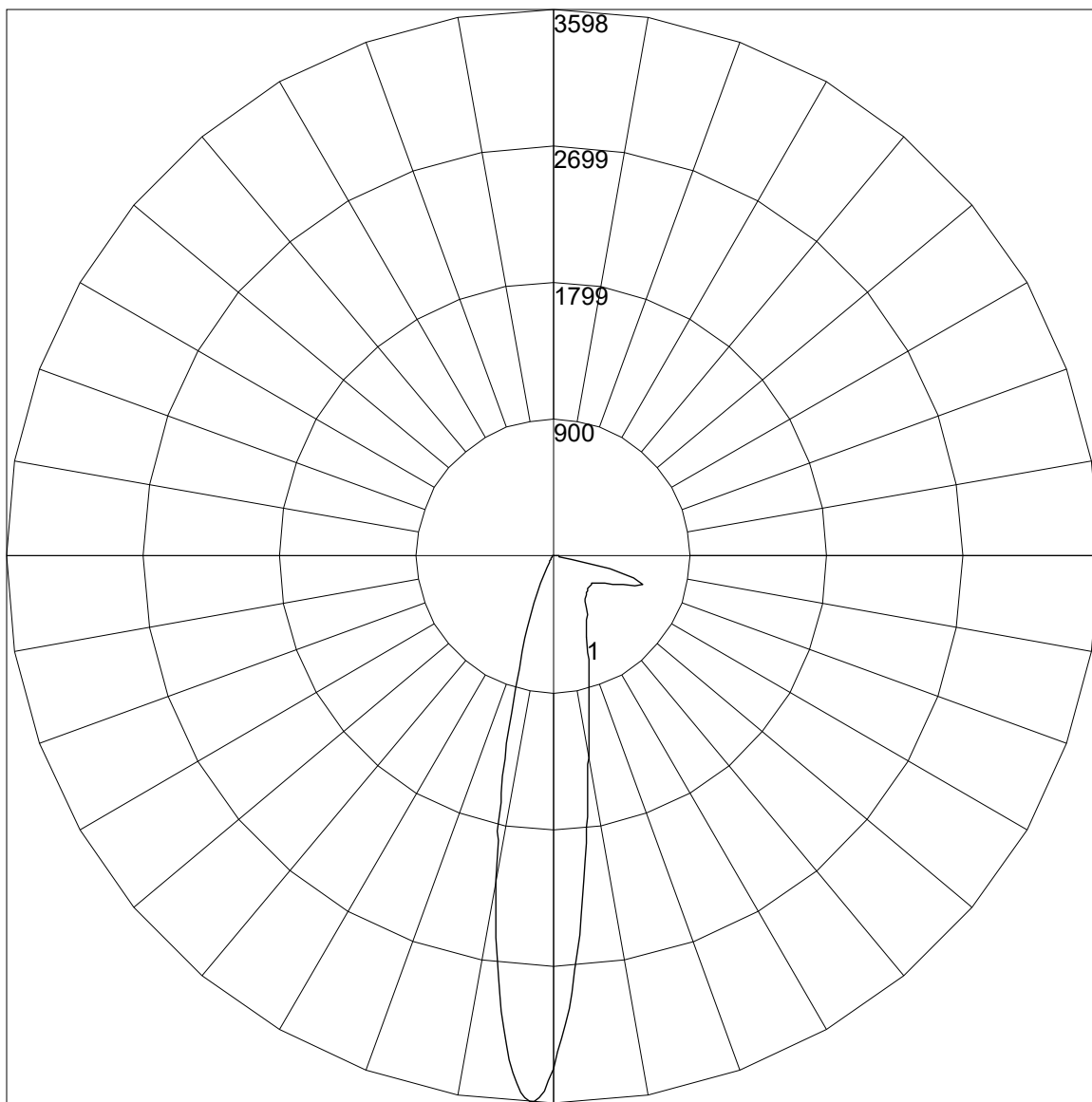
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	91	90	88	86
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	95	86	79	73	92	84	78	72	81	76	71	78	74	70	76	72	68	66
4	88	78	71	65	86	77	70	64	74	68	63	72	67	63	70	65	62	60
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	60	55	52	50
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	50	45	42	40
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38

POLAR GRAPH



Maximum Candela = 3598 Located At Horizontal Angle = 135, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)