

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-2D-4'-V-8-TW-ITL86715.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL86715.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]02/12/16

[ISSUEDATE]03/30/16

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-WS-6W-2D-4ft-V-8-TW

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 41.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.7 WATTS

[ABSOLUTE]LUMENS]3086

[OTHER]see www.finelite.com for source file ITL86715. 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	3086
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	41.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.49 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.19 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6453	6113	5549
55	5945	5733	5052
65	5186	5050	4499
75	4305	4046	3759
85	3300	2964	2194

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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	1265	1265	1265	1265	1265	1265	1265	1265	1265	1265
2.5	1281	1280	1279	1277	1276	1273	1272	1269	1267	1265
5.0	1306	1304	1302	1298	1292	1284	1277	1269	1264	1260
7.5	1325	1324	1321	1315	1308	1297	1284	1270	1260	1252
10.0	1341	1341	1336	1330	1320	1305	1289	1269	1250	1239
12.5	1351	1350	1346	1338	1326	1307	1286	1262	1238	1222
15.0	1359	1357	1351	1342	1329	1306	1281	1252	1223	1202
17.5	1361	1359	1355	1343	1327	1301	1273	1239	1206	1180
20.0	1359	1356	1350	1339	1321	1291	1260	1221	1185	1153
22.5	1353	1350	1344	1331	1310	1278	1244	1202	1162	1125
25.0	1344	1341	1335	1320	1296	1262	1224	1177	1135	1094
27.5	1331	1328	1321	1304	1279	1243	1200	1150	1106	1061
30.0	1316	1313	1304	1286	1259	1220	1175	1123	1075	1025
32.5	1297	1294	1283	1264	1235	1195	1147	1092	1041	987
35.0	1276	1272	1261	1239	1209	1167	1116	1059	1006	949
37.5	1248	1247	1234	1212	1180	1136	1083	1025	968	908
40.0	1220	1219	1206	1183	1149	1104	1048	987	930	867
42.5	1192	1188	1174	1150	1116	1069	1012	949	890	824
45.0	1158	1153	1139	1115	1080	1033	973	910	849	781
47.5	1118	1115	1100	1079	1042	993	933	869	806	737
50.0	1075	1072	1060	1037	1001	953	892	826	763	692
52.5	1025	1023	1012	992	958	913	850	786	720	648
55.0	970	967	958	940	910	866	806	742	675	603
57.5	913	910	900	884	858	820	761	697	631	558
60.0	854	851	840	824	799	766	714	651	585	514
62.5	796	792	781	764	740	712	665	605	540	470
65.0	736	732	721	703	679	649	613	558	494	426
67.5	676	672	662	643	622	592	556	510	449	381
70.0	617	612	602	583	562	532	497	459	403	337
72.5	559	555	544	525	503	473	437	404	356	293
75.0	501	497	487	469	446	413	379	350	310	250
77.5	445	442	431	414	392	360	325	293	262	208
80.0	391	388	377	364	341	310	275	240	208	167
82.5	339	336	329	313	292	262	228	192	156	125
85.0	288	284	278	263	243	215	184	149	109	81
87.5	239	236	230	216	196	172	140	110	74	30
90.0	191	188	183	171	153	131	103	76	46	8
92.5	131	127	123	112	96	77	51	31	16	2
95.0	66	63	61	53	42	31	22	15	6	0
97.5	30	29	28	26	24	20	15	9	2	0
100.0	21	21	20	19	17	14	10	4	1	0
102.5	16	16	16	15	13	11	6	2	1	0
105.0	13	13	12	12	10	7	2	1	0	0
107.5	10	10	10	9	7	2	1	1	0	0
110.0	8	8	7	5	1	1	1	0	0	0
112.5	2	2	1	1	1	1	1	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	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	1265	1265	1265	1265	1265
2.5	1263	1258	1250	1245	1244
5.0	1257	1242	1223	1205	1199
7.5	1248	1222	1183	1152	1140
10.0	1233	1192	1136	1089	1071
12.5	1215	1158	1081	1020	992
15.0	1194	1119	1021	945	911
17.5	1171	1077	957	867	828
20.0	1143	1031	890	787	743
22.5	1113	982	820	707	660
25.0	1081	930	750	628	579
27.5	1046	876	684	550	498
30.0	1009	821	614	474	421
32.5	969	764	546	400	347
35.0	927	707	480	329	276
37.5	884	650	414	261	208
40.0	840	593	350	197	145
42.5	795	537	289	136	87
45.0	749	482	227	81	37
47.5	703	426	174	33	10
50.0	656	373	122	10	7
52.5	610	322	73	8	5
55.0	564	271	29	6	4
57.5	518	222	11	5	3
60.0	472	174	8	4	2
62.5	427	129	6	3	1
65.0	382	86	5	2	1
67.5	337	47	4	2	0
70.0	294	15	3	1	0
72.5	251	8	3	1	0
75.0	209	6	2	1	0
77.5	169	5	2	1	0
80.0	130	4	1	1	0

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CANDELA TABULATION - (Cont.)

82.5	91	3	1	0	0
85.0	54	2	0	0	0
87.5	17	0	0	0	0
90.0	0	0	0	0	0
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	446.02	N.A.	14.50
0-30	912.30	N.A.	29.60
0-40	1434.56	N.A.	46.50
0-60	2374.57	N.A.	76.90
0-80	2942.82	N.A.	95.30
0-90	3057.28	N.A.	99.10
10-90	2938.66	N.A.	95.20
20-40	988.54	N.A.	32.00
20-50	1490.77	N.A.	48.30
40-70	1281.71	N.A.	41.50
60-80	568.24	N.A.	18.40
70-80	226.54	N.A.	7.30
80-90	114.47	N.A.	3.70
90-110	28.85	N.A.	0.90
90-120	29.11	N.A.	0.90
90-130	29.11	N.A.	0.90
90-150	29.11	N.A.	0.90
90-180	29.11	N.A.	0.90
110-180	0.26	N.A.	0.00
0-180	3086.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.62
10-20	327.40
20-30	466.28
30-40	522.26
40-50	502.23
50-60	437.78
60-70	341.70
70-80	226.54
80-90	114.47
90-100	25.29
100-110	3.57
110-120	0.26
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

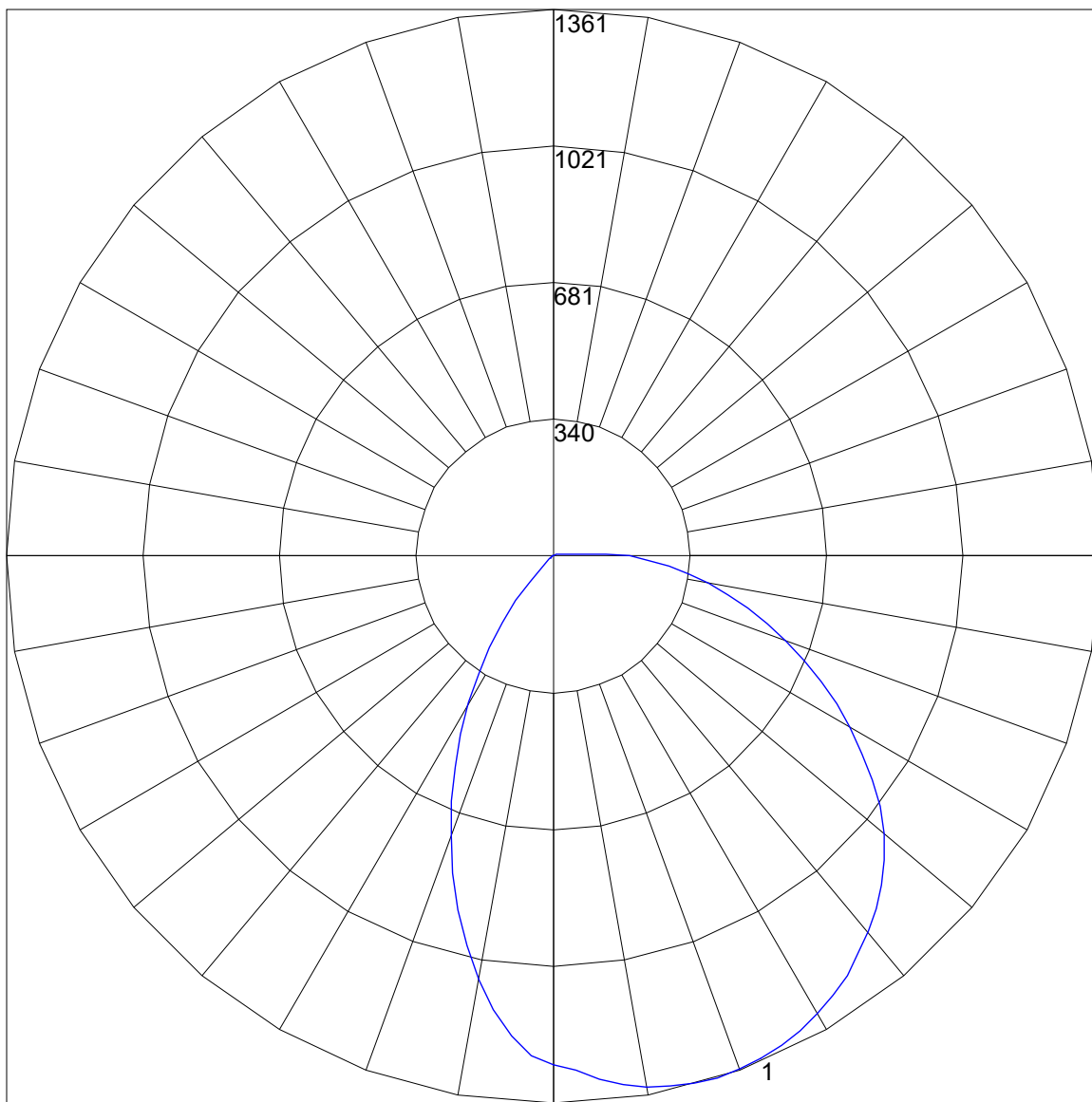
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	103	98	94	105	101	96	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	90	79	71	64	87	78	70	64	74	68	63	72	66	61	69	64	60	58
4	82	70	62	55	80	69	61	55	66	59	54	64	58	53	62	56	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1361 Located At Horizontal Angle = 0, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)