

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-4FT-S-8-35-ITL86715.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL86715.001 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-S-8-35

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 14.7 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 16.0 WATTS

[ABSOLUTE]LUMENS]1263

[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	1263
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	14.7
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	2641	2502	2271
55	2433	2346	2068
65	2122	2067	1841
75	1762	1656	1538
85	1350	1213	898

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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	517.724	517.724	517.724	517.724	517.724	517.724	517.724	517.724	517.724	517.724
2.5	524.272	523.863	523.453	522.635	522.226	520.998	520.589	519.361	518.542	517.724
5.0	534.504	533.685	532.867	531.229	528.774	525.500	522.635	519.361	517.314	515.677
7.5	542.280	541.870	540.643	538.187	535.322	530.820	525.500	519.770	515.677	512.403
10.0	548.828	548.828	546.782	544.326	540.233	534.094	527.546	519.361	511.585	507.083
12.5	552.921	552.511	550.874	547.600	542.689	534.913	526.318	516.496	506.673	500.125
15.0	556.195	555.376	552.921	549.237	543.917	534.504	524.272	512.403	500.534	491.940
17.5	557.013	556.195	554.558	549.647	543.098	532.457	520.998	507.083	493.577	482.936
20.0	556.195	554.967	552.511	548.009	540.643	528.365	515.677	499.716	484.982	471.886
22.5	553.739	552.511	550.056	544.735	536.141	523.044	509.129	491.940	475.569	460.426
25.0	550.056	548.828	546.372	540.233	530.411	516.496	500.944	481.708	464.519	447.739
27.5	544.735	543.507	540.643	533.685	523.453	508.720	491.121	470.658	452.650	434.233
30.0	538.596	537.368	533.685	526.318	515.268	499.307	480.890	459.608	439.963	419.499
32.5	530.820	529.592	525.090	517.314	505.446	489.075	469.430	446.920	426.048	403.947
35.0	522.226	520.589	516.087	507.083	494.805	477.615	456.743	433.414	411.723	388.395
37.5	510.766	510.357	505.036	496.032	482.936	464.928	443.237	419.499	396.171	371.615
40.0	499.307	498.897	493.577	484.164	470.249	451.832	428.913	403.947	380.619	354.835
42.5	487.847	486.210	480.480	470.658	456.743	437.507	414.179	388.395	364.248	337.237
45.0	473.932	471.886	466.156	456.333	442.009	422.774	398.217	372.434	347.468	319.638
47.5	457.561	456.333	450.194	441.600	426.457	406.403	381.847	355.654	329.870	301.630
50.0	439.963	438.735	433.824	424.411	409.677	390.032	365.067	338.055	312.271	283.213
52.5	419.499	418.681	414.179	405.994	392.078	373.661	347.878	321.684	294.673	265.205
55.0	396.990	395.762	392.078	384.712	372.434	354.426	329.870	303.677	276.256	246.788
57.5	373.661	372.434	368.341	361.793	351.152	335.600	311.453	285.260	258.248	228.371
60.0	349.515	348.287	343.785	337.237	327.005	313.499	292.217	266.433	239.422	210.364
62.5	325.777	324.140	319.638	312.681	302.858	291.399	272.163	247.607	221.005	192.356
65.0	301.221	299.584	295.082	287.715	277.893	265.615	250.881	228.371	202.178	174.348
67.5	276.665	275.028	270.935	263.159	254.565	242.286	227.553	208.727	183.761	155.931
70.0	252.518	250.472	246.379	238.603	230.008	217.730	203.406	187.854	164.935	137.923
72.5	228.781	227.144	222.642	214.866	205.862	193.584	178.850	165.344	145.699	119.915
75.0	205.043	203.406	199.313	191.947	182.533	169.028	155.112	143.244	126.873	102.317
77.5	182.124	180.896	176.394	169.437	160.433	147.336	133.012	119.915	107.228	85.128
80.0	160.024	158.796	154.294	148.973	139.560	126.873	112.549	98.224	85.128	68.348
82.5	138.742	137.514	134.649	128.101	119.506	107.228	93.313	78.579	63.846	51.158
85.0	117.869	116.232	113.776	107.637	99.452	87.993	75.305	60.981	44.610	33.151
87.5	97.815	96.587	94.132	88.402	80.216	70.394	57.297	45.019	30.286	12.278
90.0	78.170	76.942	74.896	69.985	62.618	53.614	42.155	31.104	18.826	3.274
92.5	53.614	51.977	50.340	45.838	39.290	31.514	20.873	12.687	6.548	0.819
95.0	27.012	25.784	24.965	21.691	17.189	12.687	9.004	6.139	2.456	0.000
97.5	12.278	11.869	11.459	10.641	9.822	8.185	6.139	3.683	0.819	0.000
100.0	8.595	8.595	8.185	7.776	6.958	5.730	4.093	1.637	0.409	0.000
102.5	6.548	6.548	6.548	6.139	5.320	4.502	2.456	0.819	0.409	0.000
105.0	5.320	5.320	4.911	4.911	4.093	2.865	0.819	0.409	0.000	0.000
107.5	4.093	4.093	4.093	3.683	2.865	0.819	0.409	0.409	0.000	0.000
110.0	3.274	3.274	2.865	2.046	0.409	0.409	0.409	0.000	0.000	0.000
112.5	0.819	0.819	0.409	0.409	0.409	0.409	0.409	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	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	517.724	517.724	517.724	517.724	517.724
2.5	516.905	514.859	511.585	509.538	509.129
5.0	514.449	508.310	500.534	493.168	490.712
7.5	510.766	500.125	484.164	471.476	466.565
10.0	504.627	487.847	464.928	445.693	438.326
12.5	497.260	473.932	442.418	417.453	405.994
15.0	488.666	457.971	417.862	386.758	372.843
17.5	479.252	440.781	391.669	354.835	338.874
20.0	467.793	421.955	364.248	322.094	304.086
22.5	455.515	401.901	335.600	289.352	270.117
25.0	442.418	380.619	306.951	257.020	236.966
27.5	428.094	358.518	279.939	225.097	203.815
30.0	412.951	336.009	251.290	193.993	172.302
32.5	396.580	312.681	223.460	163.707	142.016
35.0	379.391	289.352	196.448	134.649	112.958
37.5	361.793	266.024	169.437	106.819	85.128
40.0	343.785	242.696	143.244	80.626	59.344
42.5	325.368	219.777	118.278	55.660	35.606
45.0	306.542	197.267	92.904	33.151	15.143
47.5	287.715	174.348	71.213	13.506	4.093
50.0	268.480	152.657	49.931	4.093	2.865
52.5	249.653	131.784	29.877	3.274	2.046
55.0	230.827	110.912	11.869	2.456	1.637
57.5	212.001	90.857	4.502	2.046	1.228
60.0	193.174	71.213	3.274	1.637	0.819
62.5	174.757	52.796	2.456	1.228	0.409
65.0	156.340	35.197	2.046	0.819	0.409
67.5	137.923	19.236	1.637	0.819	0.000
70.0	120.325	6.139	1.228	0.409	0.000
72.5	102.726	3.274	1.228	0.409	0.000
75.0	85.537	2.456	0.819	0.409	0.000
77.5	69.166	2.046	0.819	0.409	0.000
80.0	53.205	1.637	0.409	0.409	0.000

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CANDELA TABULATION - (Cont.)

82.5	37.243	1.228	0.409	0.000	0.000
85.0	22.100	0.819	0.000	0.000	0.000
87.5	6.958	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	182.54	N.A.	14.50
0-30	373.38	N.A.	29.60
0-40	587.12	N.A.	46.50
0-60	971.84	N.A.	76.90
0-80	1204.4	N.A.	95.30
0-90	1251.25	N.A.	99.10
10-90	1202.7	N.A.	95.20
20-40	404.58	N.A.	32.00
20-50	610.13	N.A.	48.30
40-70	524.56	N.A.	41.50
60-80	232.56	N.A.	18.40
70-80	92.72	N.A.	7.30
80-90	46.85	N.A.	3.70
90-110	11.81	N.A.	0.90
90-120	11.92	N.A.	0.90
90-130	11.92	N.A.	0.90
90-150	11.92	N.A.	0.90
90-180	11.92	N.A.	0.90
110-180	0.11	N.A.	0.00
0-180	1263.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.55
10-20	133.99
20-30	190.83
30-40	213.74
40-50	205.55
50-60	179.17
60-70	139.85
70-80	92.72
80-90	46.85
90-100	10.35
100-110	1.46
110-120	0.11
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

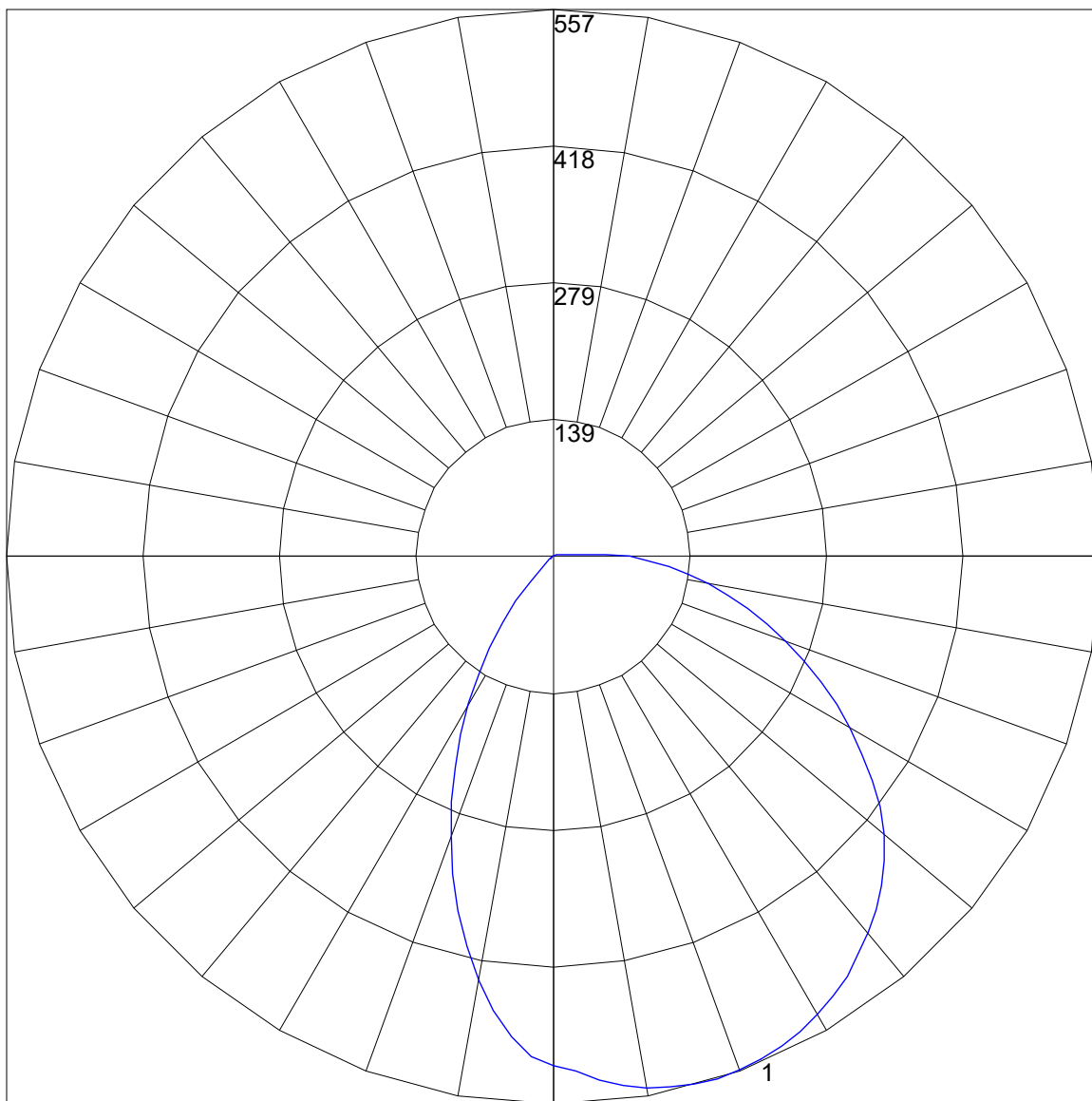
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 557.013 Located At Horizontal Angle = 0, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)