

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-X-ID-4FT-V-H-835-WSO-F-ITL92314.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92314.004 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/01/19
[ISSUE DATE]12/13/19
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-X-ID-4ft-V-H-835-WSO-F
[INPUT_ELECTRICAL]120.0 VOLTS, 61.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 61.3 WATTS
[ABSOLUTE LUMENS]7338
[OTHER]see www.finelite.com for source file ITL92314. 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	7338
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	61
Ballast Factor	1.00
CIE Type	General Diffuse
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)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13720	13779	13675
55	13272	13309	13218
65	12577	12651	12627
75	11701	11862	11943
85	10184	10903	11143

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1066.281	1066.281	1066.281	1066.281	1066.281
2.5	1065.513	1065.513	1065.513	1065.513	1065.513
5.0	1062.437	1062.437	1062.437	1062.437	1062.437
7.5	1055.518	1056.287	1056.287	1057.056	1056.287
10.0	1048.600	1046.293	1049.368	1049.368	1047.062
12.5	1038.606	1034.762	1039.374	1039.374	1035.531
15.0	1027.074	1021.693	1027.074	1027.843	1022.461
17.5	1012.467	1004.780	1012.467	1014.005	1007.086
20.0	994.017	987.098	994.786	995.555	990.942
22.5	974.798	966.341	975.567	976.335	971.723
25.0	954.041	946.353	954.810	955.579	950.966
27.5	929.441	922.522	930.978	931.747	927.134
30.0	904.071	897.921	905.609	905.609	900.996
32.5	877.164	869.477	878.702	877.933	873.320
35.0	848.720	840.263	848.720	848.720	845.645
37.5	815.663	811.050	819.507	817.969	814.125
40.0	784.143	779.531	786.450	784.912	780.299
42.5	750.318	744.936	751.855	750.318	746.474
45.0	714.186	711.110	717.261	714.186	711.879
47.5	678.053	674.978	680.360	676.516	674.210
50.0	639.615	636.540	642.690	638.077	635.771
52.5	599.639	598.870	603.483	600.408	597.333
55.0	560.432	560.432	561.969	559.663	558.125
57.5	519.687	518.918	520.456	518.150	516.612
60.0	477.405	476.636	479.711	477.405	476.636
62.5	435.891	435.123	437.429	435.891	435.123
65.0	391.303	392.841	393.609	392.841	392.841
67.5	349.789	350.558	352.096	352.096	352.096
70.0	306.738	306.738	309.813	309.045	309.813
72.5	265.225	265.225	267.531	266.762	267.531
75.0	222.943	223.712	226.018	226.787	227.555
77.5	181.429	182.967	185.273	187.579	187.579
80.0	142.991	142.991	146.066	147.603	147.603
82.5	103.784	105.321	107.627	108.396	109.934
85.0	65.345	67.652	69.958	71.495	71.495
87.5	29.213	31.520	33.826	36.132	36.132
90.0	1.538	4.613	6.919	9.994	11.531
92.5	15.801	40.490	81.967	42.465	38.515
95.0	37.527	85.918	210.350	100.731	79.005
97.5	63.204	126.407	390.085	189.611	137.270
100.0	89.868	163.935	590.559	324.906	226.151
102.5	118.507	191.586	743.630	546.119	367.371
105.0	145.171	221.213	817.697	895.714	628.086
107.5	172.822	248.864	824.610	1297.650	1028.047
110.0	202.449	277.503	804.859	1569.228	1464.547
112.5	232.076	306.143	786.095	1659.096	1720.324
115.0	260.715	336.757	777.207	1663.046	1817.105
117.5	289.354	366.384	778.195	1623.544	1842.781
120.0	314.043	393.048	779.183	1563.303	1816.117
122.5	337.745	415.762	781.158	1499.112	1762.789
125.0	357.496	435.513	784.120	1437.883	1695.635
127.5	377.247	454.276	784.120	1375.667	1624.531
130.0	396.998	471.065	785.108	1316.414	1550.465
132.5	413.786	484.890	782.145	1259.135	1475.410

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CANDELA TABULATION - (Cont.)

135.0	431.562	497.729	776.220	1202.844	1395.418
137.5	449.338	511.555	769.307	1149.516	1324.314
140.0	466.127	524.393	757.456	1093.226	1250.247
142.5	482.915	536.244	745.606	1035.947	1172.230
145.0	499.704	548.094	731.780	981.632	1095.201
147.5	515.505	557.970	718.942	927.316	1025.084
150.0	530.318	567.845	707.091	877.938	956.943
152.5	544.144	576.733	696.228	835.473	898.677
155.0	558.957	585.621	684.377	796.958	845.349
157.5	569.820	592.534	674.501	762.394	799.921
160.0	581.671	599.447	664.626	731.780	759.431
162.5	591.547	605.372	655.738	706.103	726.842
165.0	601.422	611.298	647.837	684.377	698.203
167.5	608.335	615.248	640.924	665.613	675.489
170.0	614.260	619.198	634.999	650.800	656.725
172.5	620.186	623.148	632.037	640.924	643.887
175.0	623.148	624.136	628.086	632.037	634.012
177.5	625.124	625.124	626.111	627.099	628.086
180.0	626.111	626.111	626.111	626.111	626.111

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	390.25	N.A.	5.30
0-30	828.91	N.A.	11.30
0-40	1358.36	N.A.	18.50
0-60	2409.31	N.A.	32.80
0-80	3037.12	N.A.	41.40
0-90	3115.00	N.A.	42.50
10-90	3014.05	N.A.	41.10
20-40	968.11	N.A.	13.20
20-50	1518.53	N.A.	20.70
40-70	1440.31	N.A.	19.60
60-80	627.81	N.A.	8.60
70-80	238.45	N.A.	3.20
80-90	77.88	N.A.	1.10
90-110	759.69	N.A.	10.40
90-120	1691.11	N.A.	23.00
90-130	2516.99	N.A.	34.30
90-150	3656.3	N.A.	49.80
90-180	4222.73	N.A.	57.50
110-180	3463.04	N.A.	47.20
0-180	7337.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

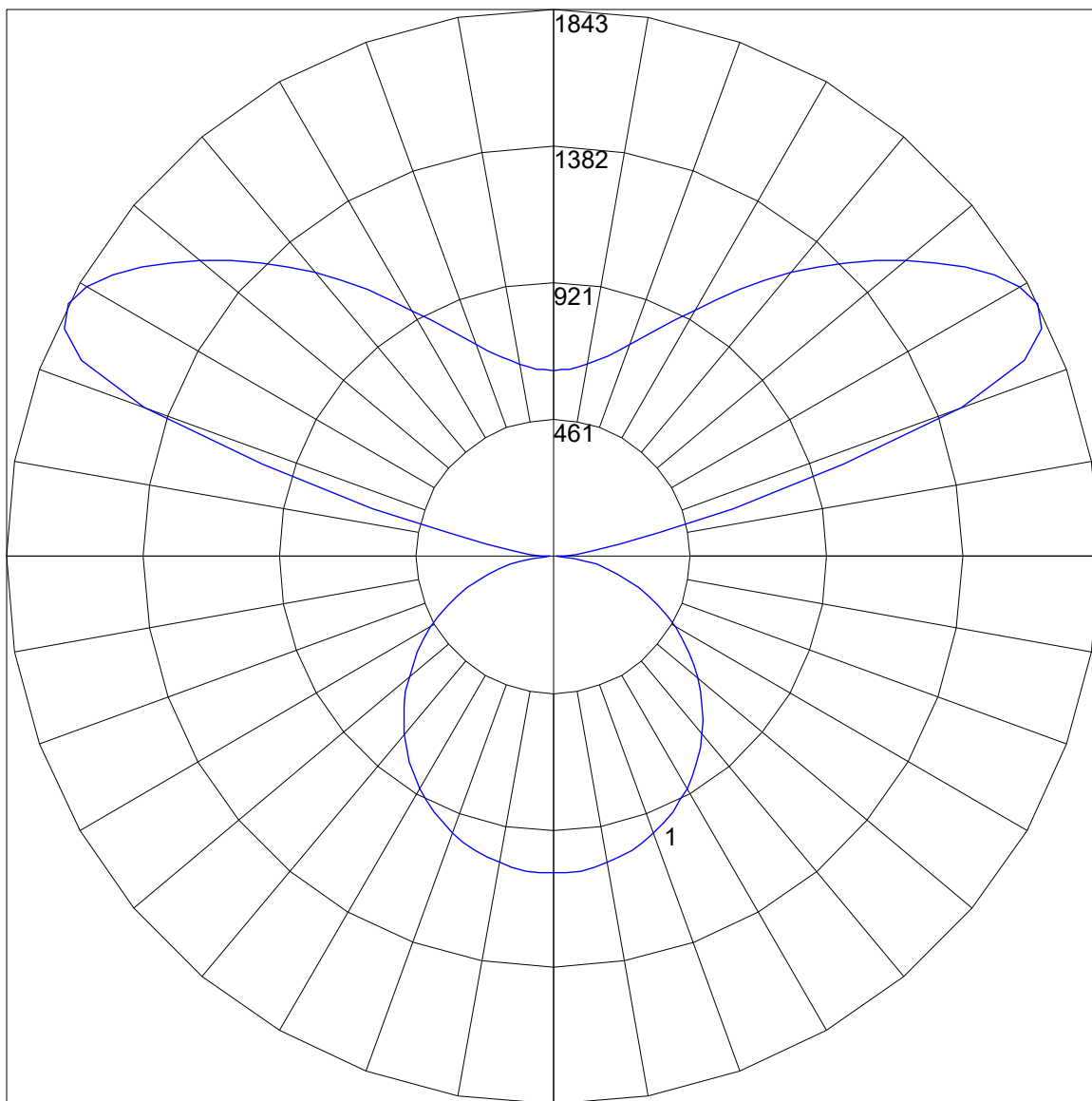
Zone	Lumens
0-10	100.95
10-20	289.30
20-30	438.66
30-40	529.45
40-50	550.42
50-60	500.53
60-70	389.36
70-80	238.45
80-90	77.88
90-100	141.87
100-110	617.82
110-120	931.43
120-130	825.87
130-140	657.55
140-150	481.76
150-160	321.74
160-170	184.47
170-180	60.22

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	42
1	96	91	87	84	87	84	80	77	69	67	64	55	54	52	43	42	41	35
2	87	80	73	68	79	73	67	63	60	56	53	48	46	43	38	36	34	29
3	79	70	62	56	72	64	57	52	53	48	44	43	39	36	33	31	29	24
4	72	62	54	48	66	56	49	44	47	42	37	38	34	31	29	27	25	21
5	66	55	47	41	60	50	43	38	42	36	32	34	30	27	26	24	21	18
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	24	21	19	16
7	56	44	36	31	51	41	34	28	34	28	24	28	24	20	22	19	17	14
8	52	40	32	27	48	37	30	25	31	25	22	25	21	18	20	17	15	12
9	49	36	29	24	44	34	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 1842.781 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)