

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-H-H-835-WSO-F-ITL92314.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92314.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]10/01/19

[ISSUEDATE]12/13/19

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-X-ID-4ft-H-H-835-WSO-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 52.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 53.4 WATTS

[_ABSOLUTE]LUMENS]6400

[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	6400
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	52.9
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	13715	13774	13671
55	13268	13304	13213
65	12573	12647	12622
75	11697	11858	11939
85	10181	10899	11139

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-X-ID-4FT-H-H-835-WSO-F-ITL92314.003.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1065.898	1065.898	1065.898	1065.898	1065.898
2.5	1065.130	1065.130	1065.130	1065.130	1065.130
5.0	1062.056	1062.056	1062.056	1062.056	1062.056
7.5	1055.139	1055.908	1055.908	1056.676	1055.908
10.0	1048.223	1045.918	1048.991	1048.991	1046.686
12.5	1038.233	1034.390	1039.001	1039.001	1035.159
15.0	1026.705	1021.326	1026.705	1027.474	1022.094
17.5	1012.104	1004.419	1012.104	1013.641	1006.724
20.0	993.660	986.744	994.429	995.197	990.586
22.5	974.448	965.994	975.216	975.985	971.374
25.0	953.698	946.014	954.467	955.235	950.625
27.5	929.107	922.190	930.644	931.412	926.801
30.0	903.747	897.599	905.283	905.283	900.673
32.5	876.849	869.164	878.386	877.618	873.007
35.0	848.415	839.962	848.415	848.415	845.341
37.5	815.370	810.759	819.212	817.675	813.833
40.0	783.862	779.251	786.167	784.630	780.019
42.5	750.048	744.669	751.585	750.048	746.206
45.0	713.929	710.855	717.003	713.929	711.624
47.5	677.810	674.736	680.115	676.273	673.967
50.0	639.385	636.311	642.459	637.848	635.543
52.5	599.424	598.655	603.266	600.192	597.118
55.0	560.231	560.231	561.768	559.462	557.925
57.5	519.501	518.732	520.269	517.964	516.427
60.0	477.233	476.465	479.539	477.233	476.465
62.5	435.735	434.966	437.272	435.735	434.966
65.0	391.162	392.699	393.468	392.699	392.699
67.5	349.664	350.432	351.969	351.969	351.969
70.0	306.628	306.628	309.702	308.934	309.702
72.5	265.130	265.130	267.435	266.667	267.435
75.0	222.863	223.631	225.937	226.705	227.474
77.5	181.364	182.901	185.207	187.512	187.512
80.0	142.939	142.939	146.013	147.550	147.550
82.5	103.746	105.283	107.589	108.357	109.894
85.0	65.322	67.627	69.933	71.470	71.470
87.5	29.203	31.508	33.814	36.119	36.119
90.0	1.537	4.611	6.916	9.990	11.527
92.5	12.296	31.508	63.785	33.045	29.971
95.0	29.203	66.859	163.689	78.386	61.479
97.5	49.183	98.367	303.554	147.550	106.820
100.0	69.933	127.570	459.558	252.834	175.985
102.5	92.219	149.087	578.674	424.976	285.879
105.0	112.968	172.142	636.311	697.022	488.761
107.5	134.486	193.660	641.691	1009.798	800.000
110.0	157.541	215.946	626.321	1221.134	1139.674
112.5	180.596	238.232	611.720	1291.066	1338.713
115.0	202.882	262.056	604.803	1294.140	1414.025
117.5	225.168	285.111	605.572	1263.401	1434.006
120.0	244.380	305.860	606.340	1216.523	1413.257
122.5	262.824	323.535	607.877	1166.571	1371.758
125.0	278.194	338.905	610.183	1118.924	1319.501
127.5	293.564	353.506	610.183	1070.509	1264.169
130.0	308.934	366.571	610.951	1024.400	1206.532
132.5	321.998	377.330	608.646	979.827	1148.127

CANDELA TABULATION - (Cont.)

135.0	335.831	387.320	604.035	936.023	1085.879
137.5	349.664	398.079	598.655	894.525	1030.548
140.0	362.728	408.069	589.433	850.721	972.911
142.5	375.793	417.291	580.211	806.148	912.200
145.0	388.857	426.513	569.453	763.881	852.258
147.5	401.153	434.198	559.462	721.614	797.695
150.0	412.680	441.883	550.240	683.189	744.669
152.5	423.439	448.799	541.787	650.144	699.328
155.0	434.966	455.716	532.565	620.173	657.829
157.5	443.420	461.095	524.880	593.276	622.478
160.0	452.642	466.475	517.195	569.453	590.970
162.5	460.327	471.086	510.279	549.472	565.610
165.0	468.012	475.697	504.131	532.565	543.324
167.5	473.391	478.770	498.751	517.964	525.648
170.0	478.002	481.844	494.140	506.436	511.047
172.5	482.613	484.918	491.835	498.751	501.057
175.0	484.918	485.687	488.761	491.835	493.372
177.5	486.455	486.455	487.224	487.992	488.761
180.0	487.224	487.224	487.224	487.224	487.224

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-X-ID-4FT-H-H-835-WSO-F-ITL92314.003.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	390.11	N.A.	6.10
0-30	828.61	N.A.	12.90
0-40	1357.87	N.A.	21.20
0-60	2408.44	N.A.	37.60
0-80	3036.03	N.A.	47.40
0-90	3113.89	N.A.	48.70
10-90	3012.97	N.A.	47.10
20-40	967.76	N.A.	15.10
20-50	1517.98	N.A.	23.70
40-70	1439.79	N.A.	22.50
60-80	627.59	N.A.	9.80
70-80	238.37	N.A.	3.70
80-90	77.86	N.A.	1.20
90-110	591.38	N.A.	9.20
90-120	1316.2	N.A.	20.60
90-130	1958.87	N.A.	30.60
90-150	2845.45	N.A.	44.50
90-180	3286.23	N.A.	51.30
110-180	2694.85	N.A.	42.10
0-180	6400.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.91
10-20	289.20
20-30	438.50
30-40	529.26
40-50	550.22
50-60	500.35
60-70	389.22
70-80	238.37
80-90	77.86
90-100	110.61
100-110	480.77
110-120	724.81
120-130	642.67
130-140	511.69
140-150	374.89
150-160	250.37
160-170	143.55
170-180	46.86

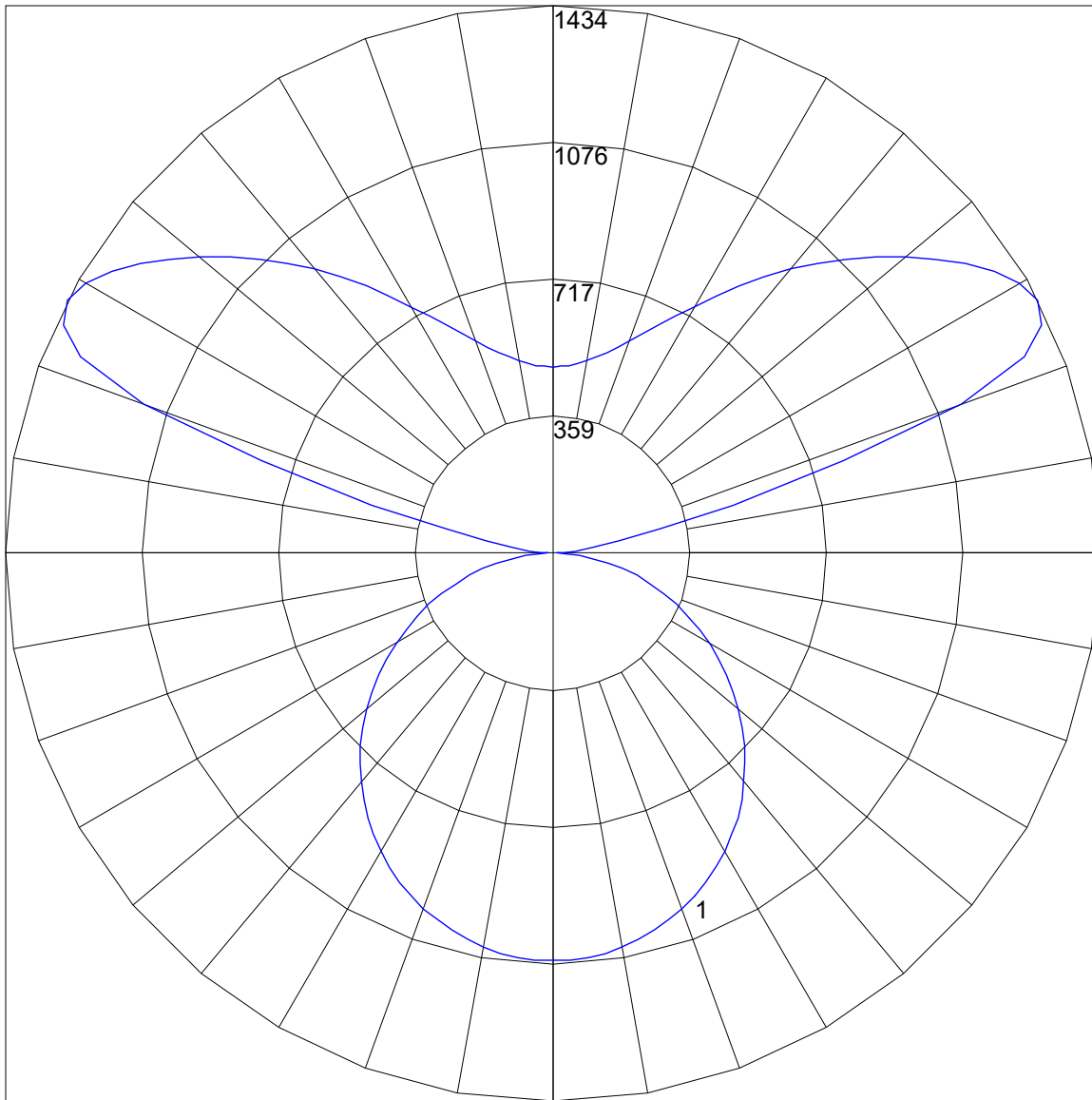
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-X-ID-4FT-H-H-835-WSO-F-ITL92314.003.IES

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	97	93	89	85	89	85	82	79	72	69	67	59	58	56	48	47	46	40
2	88	81	74	69	81	74	69	64	63	59	55	52	49	46	42	40	38	33
3	80	71	63	57	74	65	59	53	55	50	46	46	42	39	37	34	32	28
4	73	62	54	48	67	58	51	45	49	43	39	41	37	33	33	30	28	24
5	67	55	47	41	62	51	44	39	44	38	34	36	32	29	30	26	24	21
6	62	50	41	36	57	46	39	33	39	33	29	33	28	25	27	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	30	25	22	24	21	18	16
8	53	41	33	27	49	38	31	26	32	27	23	27	23	20	22	19	17	14
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

POLAR GRAPH



Maximum Candela = 1434.006 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)