

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-B-S-835-WSO-F-ITL92314.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92314.012 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/01/19
[ISSUEDATE]01/06/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-X-ID-4ft-B-S-835-WSO-F
[INPUT_ELECTRICAL]120.0 VOLTS, 30.7 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 32.6 WATTS
[ABSOLUTE LUMENS]3813
[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	3812
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	30.7
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	7219	7250	7195
55	6983	7003	6955
65	6618	6657	6644
75	6156	6241	6284
85	5359	5737	5863

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	561.030	561.030	561.030	561.030	561.030
2.5	560.626	560.626	560.626	560.626	560.626
5.0	559.008	559.008	559.008	559.008	559.008
7.5	555.367	555.772	555.772	556.177	555.772
10.0	551.727	550.514	552.132	552.132	550.918
12.5	546.469	544.446	546.873	546.873	544.851
15.0	540.401	537.570	540.401	540.806	537.974
17.5	532.716	528.671	532.716	533.525	529.885
20.0	523.008	519.368	523.413	523.817	521.390
22.5	512.896	508.446	513.300	513.705	511.278
25.0	501.975	497.930	502.379	502.784	500.357
27.5	489.031	485.390	489.840	490.244	487.817
30.0	475.683	472.447	476.492	476.492	474.065
32.5	461.525	457.480	462.334	461.930	459.503
35.0	446.559	442.110	446.559	446.559	444.941
37.5	429.166	426.739	431.188	430.380	428.357
40.0	412.582	410.155	413.795	412.986	410.559
42.5	394.784	391.953	395.593	394.784	392.762
45.0	375.773	374.155	377.391	375.773	374.560
47.5	356.762	355.144	357.975	355.953	354.740
50.0	336.537	334.919	338.155	335.728	334.515
52.5	315.504	315.099	317.526	315.908	314.290
55.0	294.875	294.875	295.684	294.470	293.661
57.5	273.437	273.032	273.841	272.628	271.819
60.0	251.190	250.785	252.403	251.190	250.785
62.5	229.347	228.942	230.156	229.347	228.942
65.0	205.886	206.695	207.100	206.695	206.695
67.5	184.044	184.448	185.257	185.257	185.257
70.0	161.392	161.392	163.010	162.606	163.010
72.5	139.550	139.550	140.763	140.359	140.763
75.0	117.303	117.707	118.921	119.325	119.730
77.5	95.460	96.269	97.483	98.696	98.696
80.0	75.236	75.236	76.853	77.662	77.662
82.5	54.606	55.415	56.629	57.033	57.842
85.0	34.382	35.595	36.809	37.618	37.618
87.5	15.371	16.584	17.798	19.011	19.011
90.0	0.809	2.427	3.640	5.258	6.067
92.5	8.131	20.836	42.179	21.852	19.819
95.0	19.311	44.212	108.243	51.835	40.655
97.5	32.524	65.048	200.733	97.572	70.638
100.0	46.245	84.359	303.895	167.193	116.374
102.5	60.982	98.588	382.663	281.026	189.045
105.0	74.703	113.833	420.777	460.924	323.206
107.5	88.932	128.063	424.334	667.755	529.021
110.0	104.178	142.800	414.171	807.506	753.638
112.5	119.424	157.537	404.515	853.751	885.258
115.0	134.161	173.291	399.942	855.784	935.060
117.5	148.898	188.537	400.450	835.456	948.273
120.0	161.603	202.258	400.958	804.457	934.552
122.5	173.799	213.946	401.974	771.425	907.110
125.0	183.963	224.110	403.499	739.917	872.554
127.5	194.127	233.765	403.499	707.902	835.964
130.0	204.290	242.404	404.007	677.411	797.851
132.5	212.929	249.519	402.483	647.936	759.228

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-X-ID-4FT-B-S-835-WSO-F-ITL92314.012.IES

CANDELA TABULATION - (Cont.)

135.0	222.077	256.125	399.433	618.969	718.065
137.5	231.224	263.240	395.876	591.527	681.476
140.0	239.863	269.846	389.778	562.561	643.362
142.5	248.502	275.945	383.680	533.086	603.216
145.0	257.142	282.043	376.565	505.136	563.577
147.5	265.273	287.125	369.959	477.186	527.496
150.0	272.895	292.206	363.861	451.776	492.431
152.5	280.010	296.780	358.270	429.925	462.448
155.0	287.633	301.354	352.172	410.105	435.006
157.5	293.223	304.911	347.090	392.319	411.630
160.0	299.321	308.468	342.009	376.565	390.794
162.5	304.403	311.517	337.435	363.352	374.024
165.0	309.485	314.567	333.369	352.172	359.287
167.5	313.042	316.599	329.812	342.517	347.599
170.0	316.091	318.632	326.763	334.894	337.943
172.5	319.140	320.665	325.238	329.812	331.337
175.0	320.665	321.173	323.206	325.238	326.255
177.5	321.681	321.681	322.189	322.697	323.206
180.0	322.189	322.189	322.189	322.189	322.189

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-X-ID-4FT-B-S-835-WSO-F-ITL92314.012.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	205.33	N.A.	5.40
0-30	436.14	N.A.	11.40
0-40	714.71	N.A.	18.70
0-60	1267.67	N.A.	33.30
0-80	1598.00	N.A.	41.90
0-90	1638.98	N.A.	43.00
10-90	1585.86	N.A.	41.60
20-40	509.38	N.A.	13.40
20-50	798.98	N.A.	21.00
40-70	757.83	N.A.	19.90
60-80	330.33	N.A.	8.70
70-80	125.46	N.A.	3.30
80-90	40.98	N.A.	1.10
90-110	390.94	N.A.	10.30
90-120	870.24	N.A.	22.80
90-130	1295.22	N.A.	34.00
90-150	1881.5	N.A.	49.40
90-180	2172.98	N.A.	57.00
110-180	1782.04	N.A.	46.70
0-180	3811.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

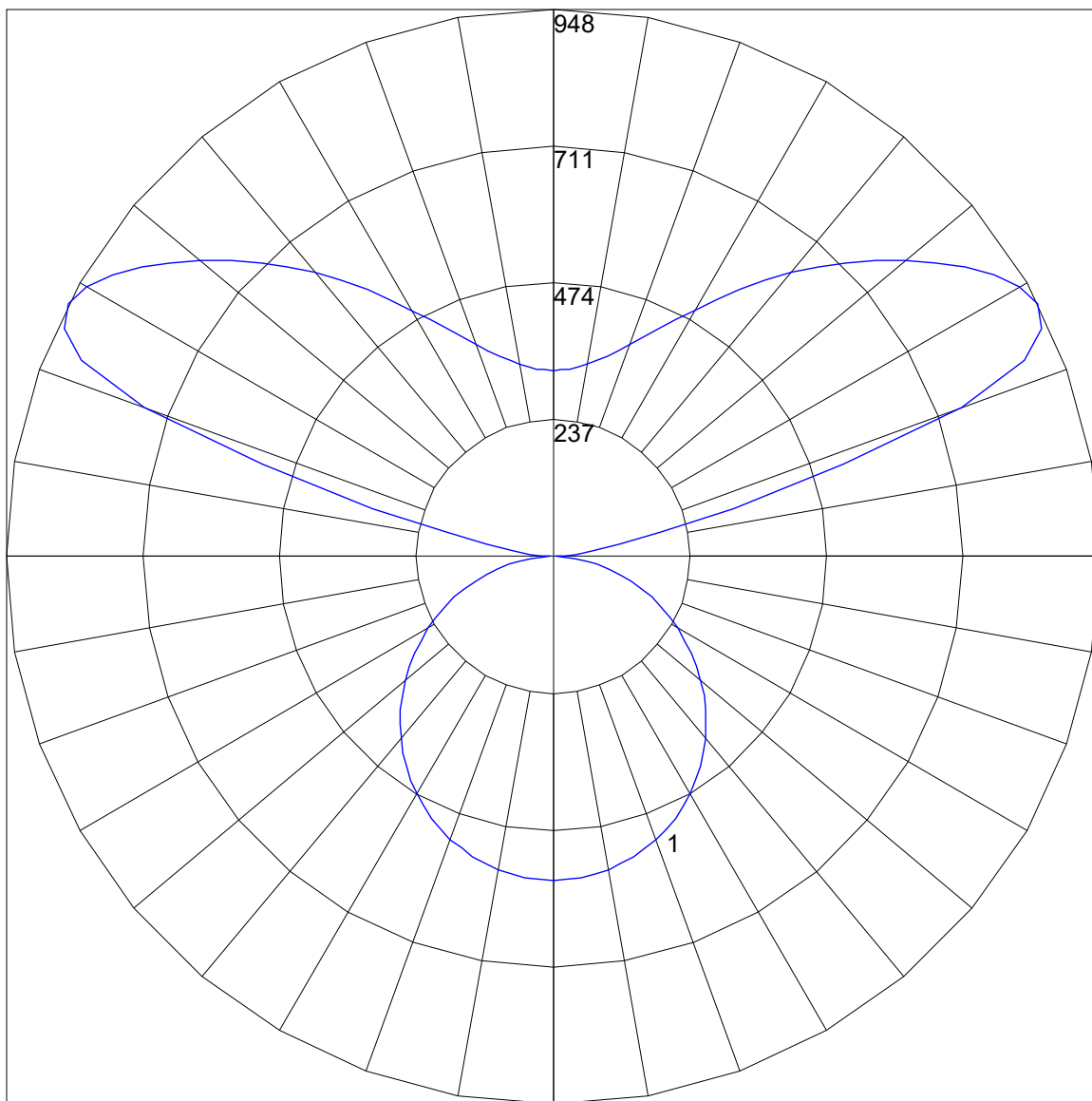
Zone	Lumens
0-10	53.12
10-20	152.22
20-30	230.80
30-40	278.57
40-50	289.61
50-60	263.36
60-70	204.86
70-80	125.46
80-90	40.98
90-100	73.01
100-110	317.92
110-120	479.30
120-130	424.98
130-140	338.37
140-150	247.91
150-160	165.56
160-170	94.93
170-180	30.99

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	50	50	50	43
1	96	92	88	84	87	84	80	77	69	67	65	56	54	53	43	42	41	36
2	87	80	73	68	79	73	68	63	60	56	53	49	46	44	38	36	34	29
3	79	70	62	57	72	64	58	52	53	48	44	43	39	37	33	31	29	25
4	72	62	54	48	66	57	50	44	47	42	38	38	34	31	30	27	25	21
5	66	55	47	41	60	50	43	38	42	36	32	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	33	38	32	28	31	27	23	24	21	19	16
7	56	44	36	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	25	21	18	20	17	15	12
9	49	36	29	24	44	34	27	22	28	23	19	23	19	16	19	16	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 948.273 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)