

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-H-835-WSO-F-ITL92314.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92314.011 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]10/01/19

[ISSUEDATE]12/13/19

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 43.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 44.7 WATTS

[_ABSOLUTE]LUMENS]5288

[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	5288
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	43.6
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	12626
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	1066.265	1066.264	1066.264	1066.264	1066.264
2.5	1065.496	1065.496	1065.496	1065.496	1065.496
5.0	1062.421	1062.421	1062.421	1062.421	1062.421
7.5	1055.502	1056.271	1056.271	1057.040	1056.271
10.0	1048.583	1046.277	1049.352	1049.352	1047.046
12.5	1038.589	1034.746	1039.358	1039.358	1035.514
15.0	1027.058	1021.677	1027.058	1027.827	1022.446
17.5	1012.452	1004.764	1012.452	1013.989	1007.070
20.0	994.001	987.083	994.770	995.539	990.927
22.5	974.783	966.326	975.551	976.320	971.708
25.0	954.026	946.339	954.795	955.564	950.951
27.5	929.426	922.507	930.963	931.732	927.120
30.0	904.057	897.907	905.595	905.595	900.982
32.5	877.151	869.463	878.688	877.919	873.307
35.0	848.707	840.250	848.707	848.707	845.632
37.5	815.650	811.038	819.494	817.956	814.113
40.0	784.131	779.519	786.437	784.900	780.287
42.5	750.306	744.925	751.843	750.306	746.462
45.0	714.174	711.099	717.249	714.174	711.868
47.5	678.043	674.968	680.349	676.505	674.199
50.0	639.605	636.530	642.680	638.067	635.761
52.5	599.630	598.861	603.473	600.398	597.323
55.0	560.423	560.423	561.961	559.654	558.117
57.5	519.679	518.910	520.448	518.141	516.604
60.0	477.397	476.629	479.704	477.397	476.629
62.5	435.885	435.116	437.422	435.885	435.116
65.0	391.297	392.834	393.603	392.834	392.834
67.5	349.784	350.553	352.090	352.090	352.090
70.0	306.734	306.734	309.809	309.040	309.809
72.5	265.221	265.221	267.527	266.758	267.527
75.0	222.939	223.708	226.014	226.783	227.552
77.5	181.426	182.964	185.270	187.577	187.577
80.0	142.989	142.989	146.064	147.601	147.601
82.5	103.782	105.320	107.626	108.395	109.932
85.0	65.344	67.650	69.957	71.494	71.494
87.5	29.213	31.519	33.825	36.132	36.132
90.0	1.538	4.612	6.919	9.994	11.531
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-H-835-WSO-F-ITL92314.011.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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	390.25	N.A.	7.40
0-30	828.90	N.A.	15.70
0-40	1358.34	N.A.	25.70
0-60	2409.27	N.A.	45.60
0-80	3037.07	N.A.	57.40
0-90	3114.96	N.A.	58.90
10-90	3014.01	N.A.	57.00
20-40	968.09	N.A.	18.30
20-50	1518.5	N.A.	28.70
40-70	1440.29	N.A.	27.20
60-80	627.80	N.A.	11.90
70-80	238.45	N.A.	4.50
80-90	77.88	N.A.	1.50
90-110	391.39	N.A.	7.40
90-120	870.69	N.A.	16.50
90-130	1295.68	N.A.	24.50
90-150	1881.95	N.A.	35.60
90-180	2173.43	N.A.	41.10
110-180	1782.04	N.A.	33.70
0-180	5288.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

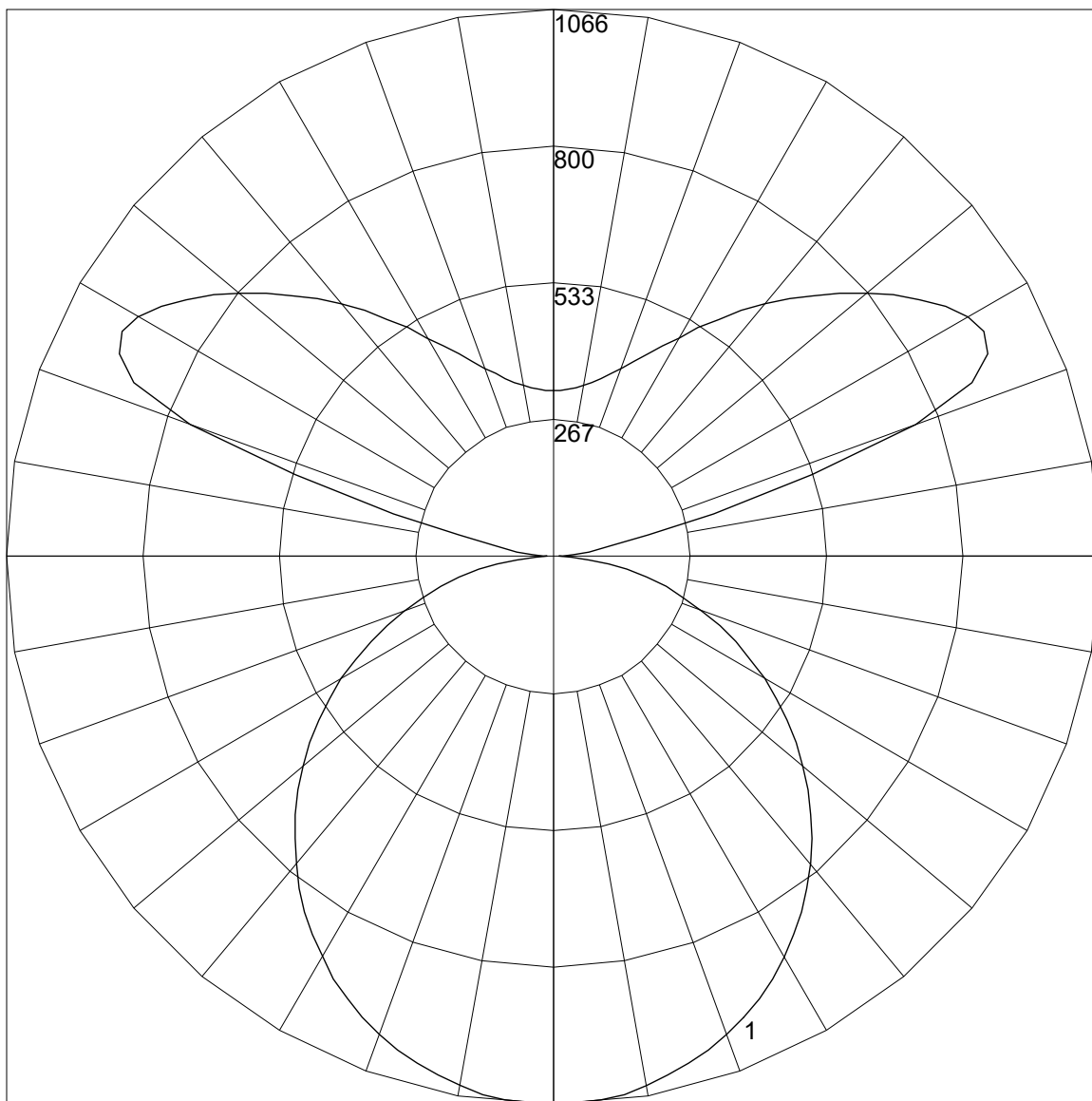
Zone	Lumens
0-10	100.95
10-20	289.30
20-30	438.65
30-40	529.44
40-50	550.41
50-60	500.52
60-70	389.35
70-80	238.45
80-90	77.88
90-100	73.47
100-110	317.92
110-120	479.30
120-130	424.98
130-140	338.37
140-150	247.91
150-160	165.56
160-170	94.93
170-180	30.99

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	99	95	91	87	93	89	85	82	77	74	72	66	64	62	56	55	54	49
2	90	82	76	71	84	77	71	67	67	63	59	58	54	52	49	47	45	40
3	82	72	65	59	76	68	61	55	59	54	49	51	47	43	43	40	38	34
4	75	64	56	49	70	60	52	47	52	46	42	45	41	37	39	35	32	29
5	69	57	48	42	64	53	46	40	47	41	36	40	36	32	35	31	28	25
6	63	51	43	37	59	48	40	35	42	36	31	36	32	28	31	27	24	22
7	59	46	38	32	54	43	36	30	38	32	27	33	28	25	29	25	22	19
8	54	42	34	28	51	39	32	27	35	29	24	30	25	22	26	22	19	17
9	51	38	30	25	47	36	29	24	32	26	22	28	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	26	21	18	22	19	16	14

POLAR GRAPH



Maximum Candela = 1066.265 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)