

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-S-H-835-WSO-F-ITL92314.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92314.014 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/01/19
[ISSUEDATE]01/06/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-X-ID-4ft-S-H-835-WSO-F
[INPUT_ELECTRICAL]120.0 VOLTS, 40.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 41.3 WATTS
[ABSOLUTE LUMENS]4844
[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	4844
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
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	6.470	16.578	33.561	17.387	15.770
95.0	15.365	35.178	86.126	41.244	32.348
97.5	25.878	51.757	159.718	77.635	56.205
100.0	36.796	67.122	241.801	133.031	92.596
102.5	48.522	78.444	304.476	223.606	150.418
105.0	59.439	90.574	334.802	366.745	257.167
107.5	70.761	101.896	337.632	531.316	420.928
110.0	82.892	113.622	329.545	642.512	599.651
112.5	95.022	125.349	321.863	679.308	704.378
115.0	106.748	137.883	318.223	680.925	744.004
117.5	118.475	150.014	318.628	664.751	754.517
120.0	128.583	160.931	319.032	640.086	743.600
122.5	138.288	170.231	319.841	613.803	721.765
125.0	146.375	178.318	321.054	588.734	694.269
127.5	154.462	186.001	321.054	563.260	665.156
130.0	162.549	192.875	321.458	538.999	634.830
132.5	169.423	198.536	320.245	515.546	604.099

CANDELA TABULATION - (Cont.)

135.0	176.701	203.792	317.819	492.498	571.347
137.5	183.979	209.453	314.989	470.663	542.233
140.0	190.853	214.710	310.136	447.615	511.907
142.5	197.727	219.562	305.284	424.163	479.963
145.0	204.601	224.414	299.623	401.924	448.424
147.5	211.071	228.458	294.367	379.685	419.715
150.0	217.136	232.501	289.515	359.467	391.815
152.5	222.797	236.140	285.067	342.080	367.959
155.0	228.862	239.780	280.214	326.310	346.124
157.5	233.310	242.610	276.171	312.158	327.524
160.0	238.162	245.440	272.128	299.623	310.945
162.5	242.206	247.867	268.488	289.110	297.602
165.0	246.249	250.293	265.254	280.214	285.875
167.5	249.080	251.910	262.423	272.532	276.575
170.0	251.506	253.528	259.997	266.467	268.893
172.5	253.932	255.145	258.784	262.423	263.636
175.0	255.145	255.549	257.167	258.784	259.593
177.5	255.954	255.954	256.358	256.762	257.167
180.0	256.358	256.358	256.358	256.358	256.358

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	390.25	N.A.	8.10
0-30	828.90	N.A.	17.10
0-40	1358.34	N.A.	28.00
0-60	2409.27	N.A.	49.70
0-80	3037.07	N.A.	62.70
0-90	3114.96	N.A.	64.30
10-90	3014.01	N.A.	62.20
20-40	968.09	N.A.	20.00
20-50	1518.5	N.A.	31.30
40-70	1440.29	N.A.	29.70
60-80	627.80	N.A.	13.00
70-80	238.45	N.A.	4.90
80-90	77.88	N.A.	1.60
90-110	311.62	N.A.	6.40
90-120	692.99	N.A.	14.30
90-130	1031.13	N.A.	21.30
90-150	1497.62	N.A.	30.90
90-180	1729.54	N.A.	35.70
110-180	1417.92	N.A.	29.30
0-180	4844.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

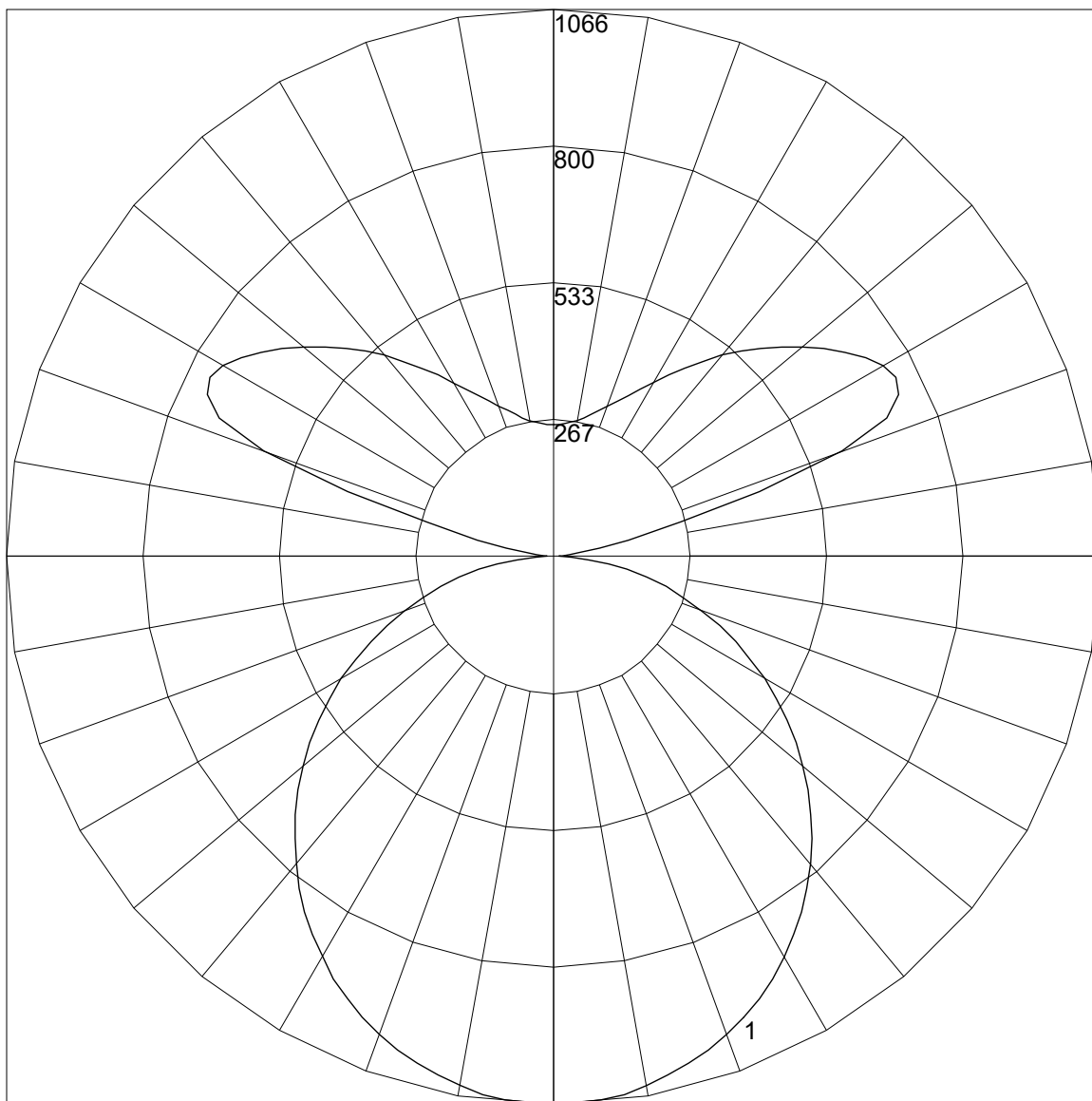
Zone	Lumens
0-10	100.95
10-20	289.30
20-30	438.65
30-40	529.44
40-50	550.41
50-60	500.52
60-70	389.35
70-80	238.45
80-90	77.88
90-100	58.65
100-110	252.96
110-120	381.37
120-130	338.15
130-140	269.23
140-150	197.25
150-160	131.73
160-170	75.53
170-180	24.66

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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	101	96	92	88	94	90	87	83	79	77	74	70	68	66	61	59	58	53
2	91	83	77	71	85	79	73	68	69	65	61	61	57	54	53	50	48	44
3	83	73	65	59	78	69	62	56	61	55	51	53	49	46	47	43	41	37
4	76	65	56	50	71	61	53	48	54	48	43	48	43	39	41	38	35	31
5	70	58	49	43	65	54	47	41	48	42	37	43	38	34	37	33	30	27
6	64	52	43	37	60	49	41	35	43	37	32	38	33	29	34	30	26	24
7	59	47	38	32	56	44	36	31	39	33	28	35	30	26	31	27	23	21
8	55	42	34	29	52	40	33	28	36	30	25	32	27	23	28	24	21	19
9	51	39	31	26	48	37	29	25	33	27	23	29	24	21	26	22	19	17
10	48	35	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15

POLAR GRAPH



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