

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-TG-F-ITL92550.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92550.014 Family Correlation Files
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUEDATE]11/21/19
[TESTDATE]01/07/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-X-ID-4ft-S-H-835-TG-F
[INPUT_ELECTRICAL]120.0 VOLTS, 39.9 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 41.3 WATTS
[ABSOLUTE LUMENS]4868
[OTHER]see www.finelite.com for source file ITL92550. 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	4868
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	39.9
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 w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.02 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13738	13085	12865
55	13317	12477	12300
65	12619	11682	11567
75	11548	10585	10626
85	9980	9076	9686

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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	1071.815	1071.815	1071.815	1071.815	1071.815
2.5	1070.260	1070.260	1071.038	1070.260	1071.038
5.0	1066.371	1067.149	1067.149	1067.149	1067.149
7.5	1060.926	1060.926	1061.704	1061.704	1061.704
10.0	1053.926	1051.592	1053.926	1053.926	1053.926
12.5	1043.814	1039.925	1043.814	1043.814	1042.259
15.0	1032.147	1025.147	1031.370	1032.147	1029.036
17.5	1017.369	1010.369	1016.591	1018.147	1015.813
20.0	1001.035	991.702	998.702	1000.257	997.146
22.5	980.812	971.479	980.034	980.812	976.923
25.0	959.812	949.700	958.256	959.034	956.700
27.5	934.922	926.366	934.922	934.922	932.588
30.0	909.254	899.920	908.476	908.476	906.921
32.5	882.031	873.475	882.031	881.253	880.475
35.0	853.252	845.474	852.474	851.697	849.363
37.5	821.362	813.584	822.140	821.362	820.584
40.0	787.917	780.916	788.694	789.472	789.472
42.5	754.471	748.249	755.249	757.582	758.360
45.0	717.914	714.803	721.025	724.136	722.581
47.5	682.913	677.468	684.468	687.580	688.357
50.0	644.023	640.134	647.912	652.578	652.578
52.5	604.355	601.243	611.355	614.466	614.466
55.0	565.464	561.575	570.909	575.576	577.909
57.5	523.463	521.129	532.019	535.908	538.241
60.0	480.683	478.350	491.573	497.017	498.573
62.5	437.904	437.904	450.349	456.572	459.683
65.0	395.903	396.681	409.125	416.904	420.793
67.5	351.568	353.901	367.902	376.458	381.125
70.0	309.566	311.900	326.678	336.012	339.901
72.5	267.565	270.676	286.232	296.344	301.788
75.0	223.230	231.008	245.786	258.231	262.120
77.5	182.784	190.562	206.896	220.119	224.786
80.0	143.894	152.450	169.561	182.784	187.451
82.5	106.559	115.115	133.005	147.783	153.228
85.0	66.891	79.336	97.226	112.782	118.226
87.5	30.334	45.113	63.780	80.114	85.559
90.0	1.556	17.890	39.668	57.558	63.780
92.5	13.919	20.879	30.295	38.892	41.758
95.0	28.248	34.798	44.214	53.221	56.086
97.5	44.214	49.946	58.952	67.959	70.824
100.0	61.408	66.321	75.328	83.925	87.200
102.5	78.603	83.106	92.113	100.710	103.985
105.0	97.025	101.938	110.535	119.132	121.998
107.5	116.267	120.361	129.367	137.555	140.421
110.0	138.374	140.830	149.427	157.206	160.071
112.5	159.252	161.299	169.897	176.856	179.722
115.0	180.541	182.178	191.594	197.735	200.191
117.5	203.467	205.104	212.882	219.023	221.070
120.0	226.392	227.211	234.989	240.721	242.768
122.5	250.546	249.728	257.097	262.419	265.694
125.0	275.110	273.063	280.022	284.526	287.391
127.5	299.673	297.217	303.767	307.861	310.317
130.0	323.827	320.961	326.693	330.787	332.424
132.5	349.209	345.525	351.256	353.712	356.988

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CANDELA TABULATION - (Cont.)

135.0	373.363	369.679	375.001	377.457	379.095
137.5	398.336	393.014	397.926	400.383	401.202
140.0	422.490	417.168	421.671	423.309	422.899
142.5	446.644	440.094	444.597	445.416	445.416
145.0	469.570	462.201	467.523	467.113	467.113
147.5	492.086	484.717	488.811	488.402	487.992
150.0	512.556	506.005	508.871	508.871	507.643
152.5	532.616	524.837	528.522	527.294	526.475
155.0	551.448	543.669	547.354	545.307	544.079
157.5	567.414	560.864	564.139	562.501	560.864
160.0	582.561	576.420	579.695	578.058	575.602
162.5	595.662	590.749	593.205	591.977	590.340
165.0	607.943	603.440	605.078	604.259	601.803
167.5	617.359	614.903	615.722	614.903	613.265
170.0	625.547	624.319	624.728	624.319	623.091
172.5	631.688	631.279	631.279	630.869	630.869
175.0	636.191	636.191	636.191	636.191	636.191
177.5	639.466	639.057	639.057	639.057	639.057
180.0	640.285	640.285	640.285	640.285	640.285

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	392.12	N.A.	8.10
0-30	832.74	N.A.	17.10
0-40	1364.6	N.A.	28.00
0-60	2429.21	N.A.	49.90
0-80	3091.2	N.A.	63.50
0-90	3197.66	N.A.	65.70
10-90	3096.23	N.A.	63.60
20-40	972.48	N.A.	20.00
20-50	1527.69	N.A.	31.40
40-70	1467.89	N.A.	30.20
60-80	661.98	N.A.	13.60
70-80	258.70	N.A.	5.30
80-90	106.46	N.A.	2.20
90-110	168.01	N.A.	3.50
90-120	357.04	N.A.	7.30
90-130	607.57	N.A.	12.50
90-150	1187.99	N.A.	24.40
90-180	1669.99	N.A.	34.30
110-180	1501.98	N.A.	30.90
0-180	4867.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.42
10-20	290.70
20-30	440.62
30-40	531.85
40-50	555.21
50-60	509.40
60-70	403.28
70-80	258.70
80-90	106.46
90-100	51.12
100-110	116.89
110-120	189.04
120-130	250.53
130-140	288.88
140-150	291.54
150-160	251.30
160-170	170.35
170-180	60.35

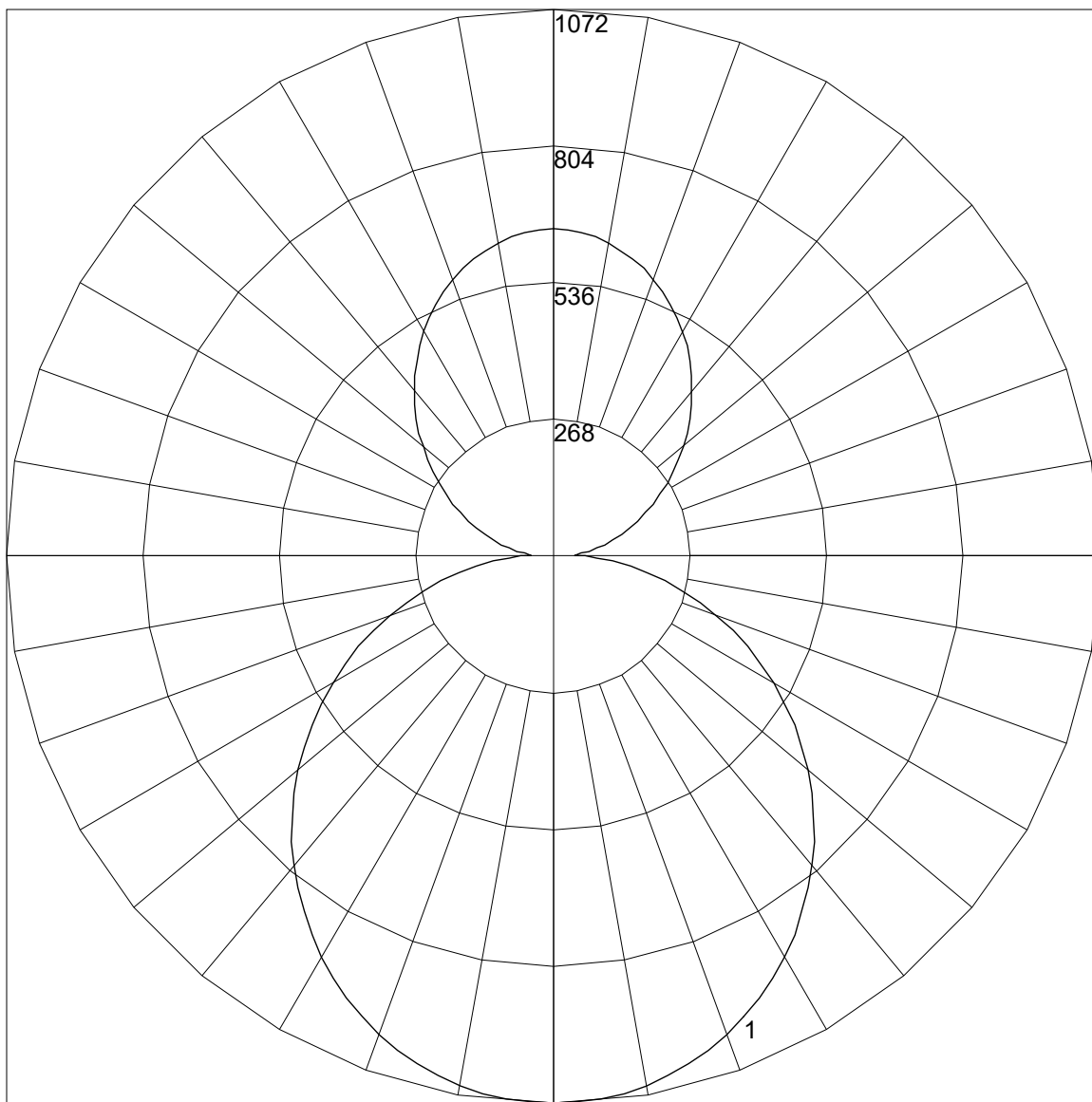
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	92	92	92	81	81	81	71	71	71	66
1	101	96	92	88	94	90	87	83	80	77	74	70	68	66	61	60	58	54
2	91	83	77	71	85	78	73	68	69	65	61	61	58	54	53	51	48	44
3	83	73	65	59	78	69	62	56	61	55	51	54	49	46	47	44	41	37
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	42	38	35	32
5	70	57	49	42	65	54	46	41	48	42	37	43	38	34	38	33	30	27
6	64	51	43	37	60	49	41	35	43	37	32	39	33	29	34	30	26	24
7	59	46	38	32	56	44	36	31	39	33	28	35	30	26	31	27	23	21
8	55	42	34	28	52	40	33	27	36	30	25	32	27	23	28	24	21	19
9	51	38	31	25	48	37	29	24	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 = 1071.815 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)