

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-V-835-TG-F-ITL92550.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92550.013 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-V-835-TG-F
[INPUT_ELECTRICAL]120.0 VOLTS, 47.9 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 49.1 WATTS
[ABSOLUTE LUMENS]5783
[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	5783
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	47.9
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	17662	16822	16541
55	17122	16041	15813
65	16224	15020	14871
75	14846	13609	13662
85	12831	11668	12453

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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	1378.000	1378.000	1378.000	1378.000	1378.000
2.5	1376.000	1376.000	1377.000	1376.000	1377.000
5.0	1371.000	1372.000	1372.000	1372.000	1372.000
7.5	1364.000	1364.000	1365.000	1365.000	1365.000
10.0	1355.000	1352.000	1355.000	1355.000	1355.000
12.5	1342.000	1337.000	1342.000	1342.000	1340.000
15.0	1327.000	1318.000	1326.000	1327.000	1323.000
17.5	1308.000	1299.000	1307.000	1309.000	1306.000
20.0	1287.000	1275.000	1284.000	1286.000	1282.000
22.5	1261.000	1249.000	1260.000	1261.000	1256.000
25.0	1234.000	1221.000	1232.000	1233.000	1230.000
27.5	1202.000	1191.000	1202.000	1202.000	1199.000
30.0	1169.000	1157.000	1168.000	1168.000	1166.000
32.5	1134.000	1123.000	1134.000	1133.000	1132.000
35.0	1097.000	1087.000	1096.000	1095.000	1092.000
37.5	1056.000	1046.000	1057.000	1056.000	1055.000
40.0	1013.000	1004.000	1014.000	1015.000	1015.000
42.5	970.000	962.000	971.000	974.000	975.000
45.0	923.000	919.000	927.000	931.000	929.000
47.5	878.000	871.000	880.000	884.000	885.000
50.0	828.000	823.000	833.000	839.000	839.000
52.5	777.000	773.000	786.000	790.000	790.000
55.0	727.000	722.000	734.000	740.000	743.000
57.5	673.000	670.000	684.000	689.000	692.000
60.0	618.000	615.000	632.000	639.000	641.000
62.5	563.000	563.000	579.000	587.000	591.000
65.0	509.000	510.000	526.000	536.000	541.000
67.5	452.000	455.000	473.000	484.000	490.000
70.0	398.000	401.000	420.000	432.000	437.000
72.5	344.000	348.000	368.000	381.000	388.000
75.0	287.000	297.000	316.000	332.000	337.000
77.5	235.000	245.000	266.000	283.000	289.000
80.0	185.000	196.000	218.000	235.000	241.000
82.5	137.000	148.000	171.000	190.000	197.000
85.0	86.000	102.000	125.000	145.000	152.000
87.5	39.000	58.000	82.000	103.000	110.000
90.0	2.000	23.000	51.000	74.000	82.000
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

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	504.14	N.A.	8.70
0-30	1070.63	N.A.	18.50
0-40	1754.42	N.A.	30.30
0-60	3123.16	N.A.	54.00
0-80	3974.26	N.A.	68.70
0-90	4111.13	N.A.	71.10
10-90	3980.73	N.A.	68.80
20-40	1250.29	N.A.	21.60
20-50	1964.1	N.A.	34.00
40-70	1887.23	N.A.	32.60
60-80	851.09	N.A.	14.70
70-80	332.61	N.A.	5.80
80-90	136.87	N.A.	2.40
90-110	169.45	N.A.	2.90
90-120	358.49	N.A.	6.20
90-130	609.02	N.A.	10.50
90-150	1189.43	N.A.	20.60
90-180	1671.43	N.A.	28.90
110-180	1501.98	N.A.	26.00
0-180	5782.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

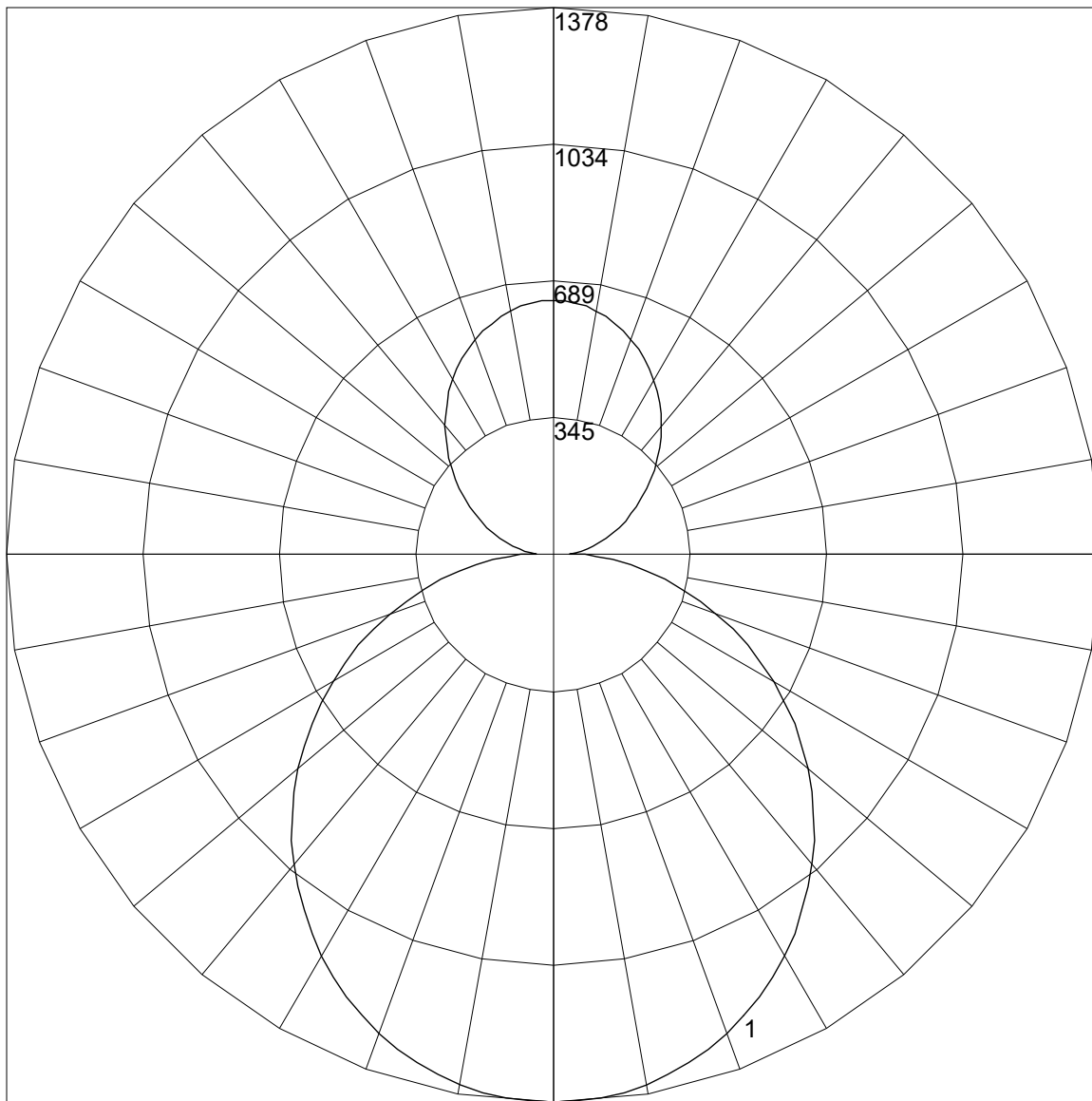
Zone	Lumens
0-10	130.40
10-20	373.74
20-30	566.50
30-40	683.79
40-50	713.82
50-60	654.92
60-70	518.49
70-80	332.61
80-90	136.87
90-100	52.56
100-110	116.89
110-120	189.04
120-130	250.53
130-140	288.88
140-150	291.54
150-160	251.30
160-170	170.35
170-180	60.35

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	58
2	92	84	77	72	87	80	74	69	72	67	63	64	60	57	57	54	52	48
3	84	74	66	59	79	70	63	57	63	57	52	56	52	48	50	47	44	40
4	77	65	57	50	72	62	54	48	56	49	44	50	45	41	45	41	37	34
5	70	58	49	43	66	55	47	41	50	43	38	45	39	35	40	36	32	29
6	65	52	43	37	61	49	42	36	45	38	33	40	35	31	36	32	28	26
7	60	47	38	33	57	45	37	31	41	34	29	37	31	27	33	29	25	23
8	56	43	34	29	53	41	33	28	37	31	26	34	28	24	30	26	22	20
9	52	39	31	26	49	37	30	25	34	28	23	31	26	22	28	24	20	18
10	49	36	28	23	46	34	27	22	31	25	21	29	23	20	26	22	18	16

POLAR GRAPH



Maximum Candela = 1378 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)