

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-H-V-835-TG-F-ITL92550.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92550.007 Family Correlation Files
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUE DATE]11/21/19
[TEST DATE]01/07/20
[MANUFACTURER]FINELITE, INC.
[LUMEN CATEGORY]HP-X-ID-4ft-H-V-835-TG-F
[INPUT ELECTRICAL]120.0 VOLTS, 60.9 WATTS
[INPUT ELECTRICAL]277.0 VOLTS, 61.2 WATTS
[ABSOLUTE LUMENS]7279
[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	7280
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	60.9
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 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	26.441	39.661	57.548	73.879	79.322
95.0	53.659	66.102	83.988	101.097	106.541
97.5	83.988	94.876	111.984	129.093	134.537
100.0	116.650	125.983	143.091	159.422	165.644
102.5	149.313	157.867	174.976	191.307	197.528
105.0	184.308	193.640	209.971	226.302	231.746
107.5	220.858	228.635	245.744	261.297	266.741
110.0	262.852	267.518	283.849	298.625	304.069
112.5	302.514	306.402	322.733	335.953	341.397
115.0	342.952	346.063	363.949	375.614	380.281
117.5	386.502	389.613	404.388	416.053	419.942
120.0	430.051	431.607	446.382	457.270	461.158
122.5	475.934	474.378	488.377	498.486	504.708
125.0	522.594	518.706	531.926	540.480	545.924
127.5	569.254	564.588	577.031	584.808	589.474
130.0	615.137	609.693	620.580	628.357	631.468
132.5	663.352	656.353	667.241	671.907	678.128

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CANDELA TABULATION - (Cont.)

135.0	709.235	702.236	712.345	717.011	720.122
137.5	756.673	746.563	755.895	760.561	762.116
140.0	802.555	792.445	801.000	804.110	803.333
142.5	848.438	835.995	844.549	846.105	846.105
145.0	891.987	877.989	888.099	887.321	887.321
147.5	934.759	920.761	928.538	927.760	926.982
150.0	973.642	961.200	966.643	966.643	964.310
152.5	1011.748	996.972	1003.972	1001.639	1000.083
155.0	1047.521	1032.745	1039.744	1035.856	1033.523
157.5	1077.850	1065.408	1071.629	1068.518	1065.408
160.0	1106.624	1094.959	1101.180	1098.070	1093.404
162.5	1131.509	1122.177	1126.843	1124.510	1121.400
165.0	1154.840	1146.285	1149.396	1147.841	1143.174
167.5	1172.726	1168.060	1169.615	1168.060	1164.949
170.0	1188.279	1185.946	1186.724	1185.946	1183.613
172.5	1199.944	1199.167	1199.167	1198.389	1198.389
175.0	1208.499	1208.499	1208.499	1208.499	1208.499
177.5	1214.720	1213.942	1213.942	1213.942	1213.942
180.0	1216.275	1216.275	1216.275	1216.275	1216.275

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	504.14	N.A.	6.90
0-30	1070.63	N.A.	14.70
0-40	1754.42	N.A.	24.10
0-60	3123.16	N.A.	42.90
0-80	3974.26	N.A.	54.60
0-90	4111.13	N.A.	56.50
10-90	3980.73	N.A.	54.70
20-40	1250.29	N.A.	17.20
20-50	1964.1	N.A.	27.00
40-70	1887.23	N.A.	25.90
60-80	851.09	N.A.	11.70
70-80	332.61	N.A.	4.60
80-90	136.87	N.A.	1.90
90-110	316.04	N.A.	4.30
90-120	675.13	N.A.	9.30
90-130	1151.03	N.A.	15.80
90-150	2253.57	N.A.	31.00
90-180	3169.17	N.A.	43.50
110-180	2853.13	N.A.	39.20
0-180	7280.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

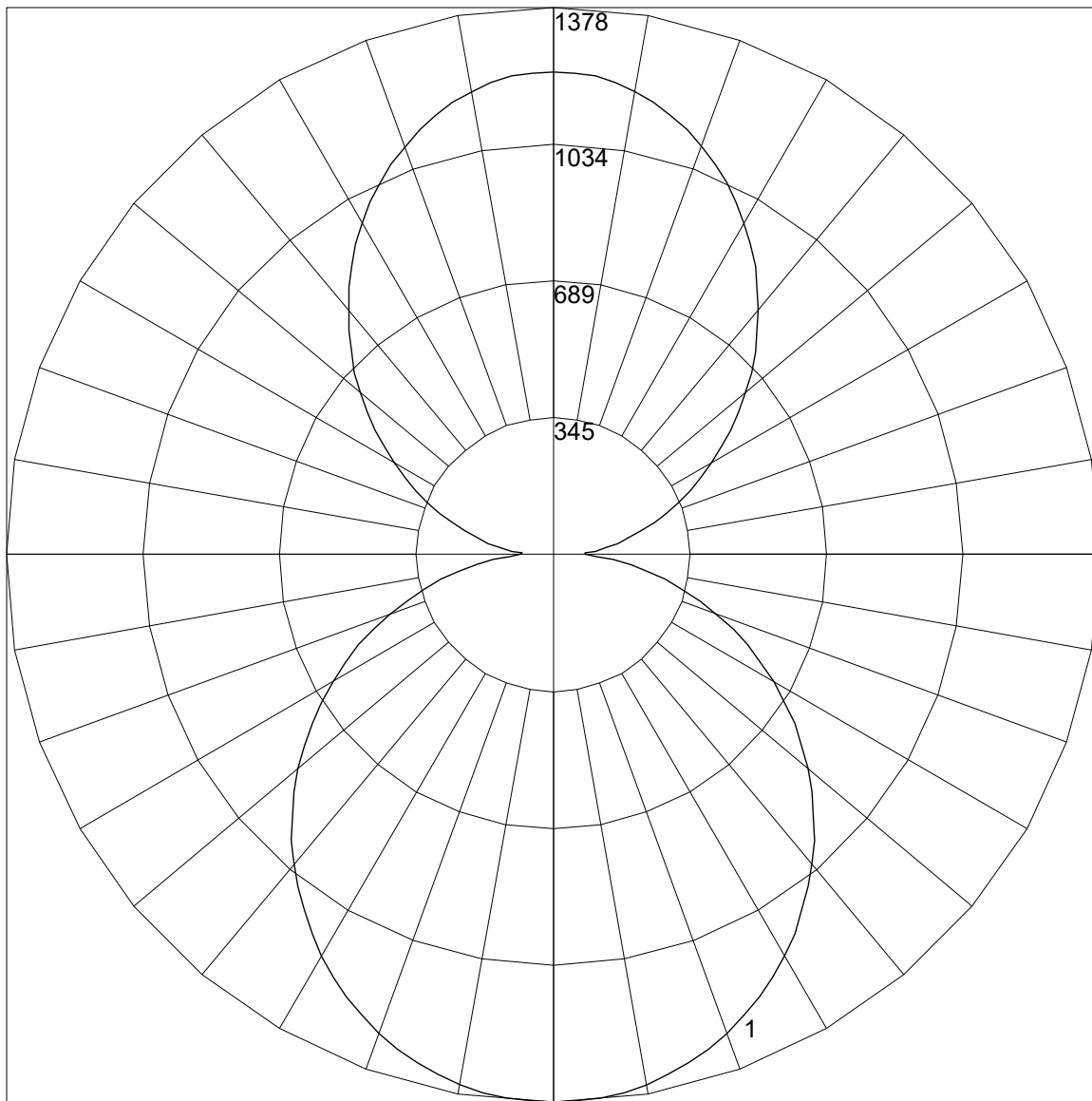
Zone	Lumens
0-10	130.40
10-20	373.74
20-30	566.50
30-40	683.79
40-50	713.82
50-60	654.92
60-70	518.49
70-80	332.61
80-90	136.87
90-100	93.99
100-110	222.05
110-120	359.09
120-130	475.90
130-140	548.75
140-150	553.80
150-160	477.36
160-170	323.60
170-180	114.64

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	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	94	90	86	92	88	84	81	75	73	70	64	62	60	54	53	51	46
2	90	82	75	70	83	76	70	66	66	61	58	56	53	50	47	45	43	38
3	81	72	64	58	75	67	60	54	58	52	48	49	45	42	41	38	36	32
4	74	63	55	49	69	59	52	46	51	45	41	44	39	36	37	33	31	27
5	68	56	48	41	63	52	45	39	46	40	35	39	34	31	33	29	27	23
6	63	50	42	36	58	47	40	34	41	35	30	35	30	27	30	26	23	20
7	58	45	37	31	54	43	35	30	37	31	27	32	27	24	27	23	21	18
8	54	41	33	28	50	39	31	26	34	28	24	29	24	21	25	21	18	16
9	50	38	30	25	47	35	28	23	31	25	21	27	22	19	23	19	17	14
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	21	18	15	13

POLAR GRAPH



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