

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-B-835-TG-F-ITL92550.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92550.008 Family Correlation Files
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[ISSUEDATE]11/21/19
[TESTDATE]01/07/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-X-ID-4ft-H-B-835-TG-F
[INPUT_ELECTRICAL]120.0 VOLTS, 43.6 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 44.7 WATTS
[ABSOLUTE LUMENS]5283
[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	5282
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 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	9089	8657	8512
55	8811	8255	8138
65	8349	7729	7653
75	7640	7003	7030
85	6603	6005	6408

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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	709.130	709.130	709.130	709.130	709.130
2.5	708.101	708.101	708.616	708.101	708.616
5.0	705.528	706.043	706.043	706.043	706.043
7.5	701.926	701.926	702.441	702.441	702.441
10.0	697.294	695.750	697.294	697.294	697.294
12.5	690.605	688.031	690.605	690.605	689.575
15.0	682.885	678.254	682.371	682.885	680.827
17.5	673.108	668.476	672.593	673.622	672.079
20.0	662.301	656.126	660.757	661.786	659.728
22.5	648.921	642.746	648.407	648.921	646.348
25.0	635.027	628.337	633.998	634.512	632.968
27.5	618.559	612.899	618.559	618.559	617.015
30.0	601.577	595.402	601.063	601.063	600.033
32.5	583.566	577.905	583.566	583.051	582.537
35.0	564.525	559.379	564.011	563.496	561.952
37.5	543.427	538.280	543.941	543.427	542.912
40.0	521.298	516.667	521.813	522.327	522.327
42.5	499.170	495.053	499.685	501.229	501.743
45.0	474.984	472.925	477.042	479.100	478.071
47.5	451.826	448.224	452.855	454.914	455.428
50.0	426.096	423.523	428.669	431.756	431.756
52.5	399.851	397.792	404.482	406.541	406.541
55.0	374.120	371.547	377.723	380.810	382.354
57.5	346.332	344.788	351.992	354.565	356.109
60.0	318.028	316.484	325.233	328.835	329.864
62.5	289.724	289.724	297.958	302.075	304.134
65.0	261.936	262.450	270.684	275.830	278.403
67.5	232.603	234.147	243.410	249.071	252.158
70.0	204.814	206.358	216.136	222.311	224.884
72.5	177.025	179.084	189.376	196.066	199.668
75.0	147.693	152.839	162.616	170.850	173.423
77.5	120.933	126.079	136.886	145.634	148.722
80.0	95.203	100.863	112.185	120.933	124.021
82.5	70.501	76.162	87.998	97.776	101.378
85.0	44.256	52.490	64.326	74.618	78.221
87.5	20.070	29.847	42.198	53.005	56.607
90.0	1.029	11.836	26.245	38.081	42.198
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

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	259.43	N.A.	4.90
0-30	550.96	N.A.	10.40
0-40	902.84	N.A.	17.10
0-60	1607.21	N.A.	30.40
0-80	2045.19	N.A.	38.70
0-90	2115.62	N.A.	40.10
10-90	2048.52	N.A.	38.80
20-40	643.41	N.A.	12.20
20-50	1010.74	N.A.	19.10
40-70	971.18	N.A.	18.40
60-80	437.98	N.A.	8.30
70-80	171.16	N.A.	3.20
80-90	70.44	N.A.	1.30
90-110	312.88	N.A.	5.90
90-120	671.97	N.A.	12.70
90-130	1147.87	N.A.	21.70
90-150	2250.41	N.A.	42.60
90-180	3166.01	N.A.	59.90
110-180	2853.13	N.A.	54.00
0-180	5281.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

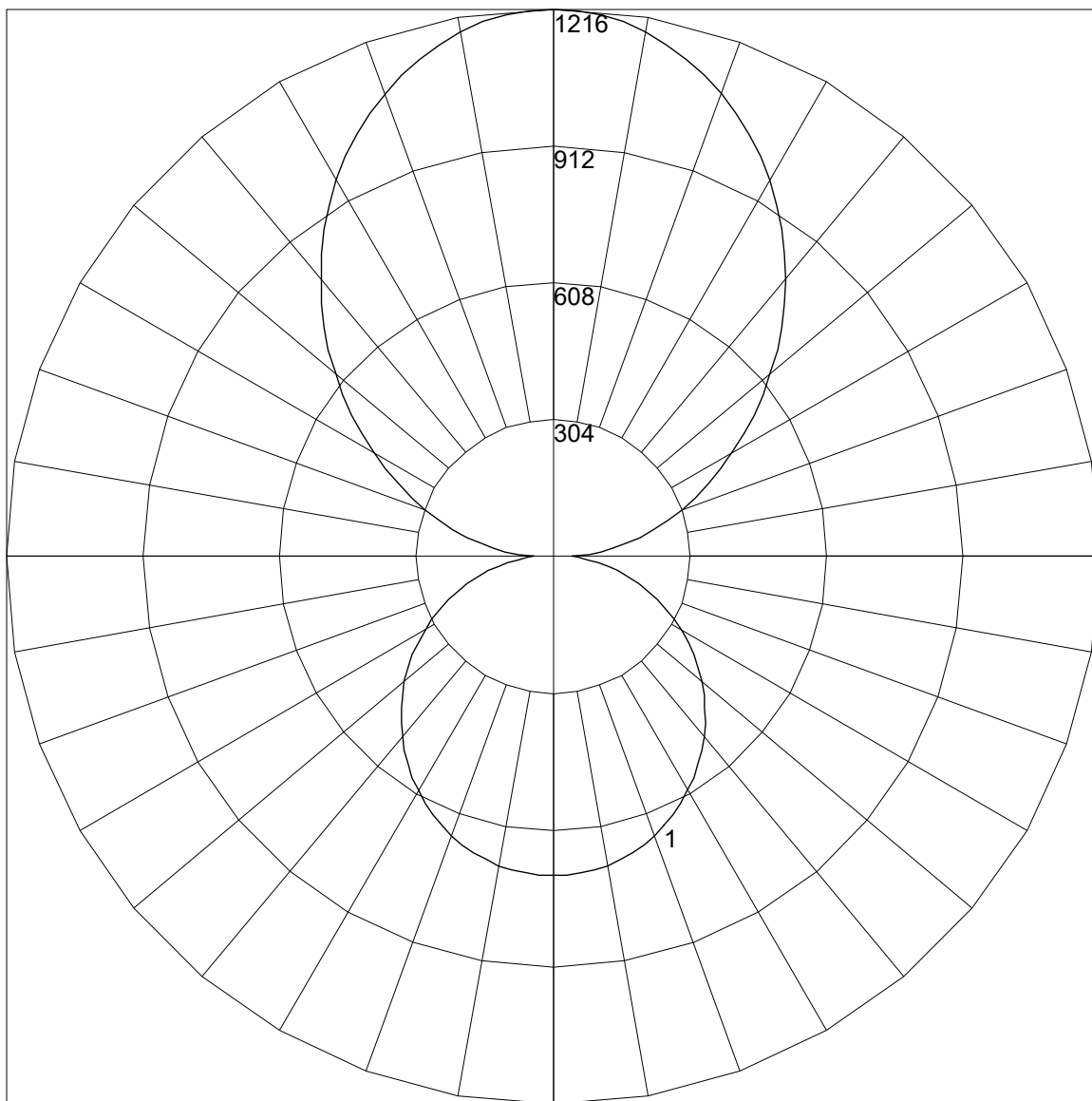
Zone	Lumens
0-10	67.10
10-20	192.33
20-30	291.52
30-40	351.88
40-50	367.34
50-60	337.03
60-70	266.82
70-80	171.16
80-90	70.44
90-100	90.83
100-110	222.05
110-120	359.09
120-130	475.90
130-140	548.75
140-150	553.80
150-160	477.36
160-170	323.60
170-180	114.64

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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	95	91	87	83	86	83	79	76	67	65	63	54	52	50	41	40	39	33
2	86	79	73	67	78	72	67	62	59	55	52	47	44	42	36	34	32	27
3	79	69	62	56	71	63	57	51	52	47	43	41	38	35	31	29	27	23
4	72	61	53	47	65	56	49	43	46	41	36	36	33	30	28	25	23	19
5	66	54	46	40	60	50	42	37	41	35	31	33	29	26	25	22	20	17
6	60	48	40	35	55	44	37	32	37	31	27	29	25	22	23	20	18	14
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16	13
8	52	39	32	26	47	36	29	25	30	25	21	24	20	17	19	16	14	11
9	48	36	28	23	44	33	26	22	27	22	19	22	18	16	17	15	12	10
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 1216.275 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)