

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-B-835-TG-F-ITL92550.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92550.015 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-B-835-TG-F
[INPUT_ELECTRICAL]120.0 VOLTS, 30.6 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 32.6 WATTS
[ABSOLUTE LUMENS]3784
[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	3784
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	30.6
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	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	259.43	N.A.	6.90
0-30	550.96	N.A.	14.60
0-40	902.84	N.A.	23.90
0-60	1607.21	N.A.	42.50
0-80	2045.19	N.A.	54.00
0-90	2115.62	N.A.	55.90
10-90	2048.52	N.A.	54.10
20-40	643.41	N.A.	17.00
20-50	1010.74	N.A.	26.70
40-70	971.18	N.A.	25.70
60-80	437.98	N.A.	11.60
70-80	171.16	N.A.	4.50
80-90	70.44	N.A.	1.90
90-110	166.29	N.A.	4.40
90-120	355.33	N.A.	9.40
90-130	605.86	N.A.	16.00
90-150	1186.27	N.A.	31.40
90-180	1668.27	N.A.	44.10
110-180	1501.98	N.A.	39.70
0-180	3783.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

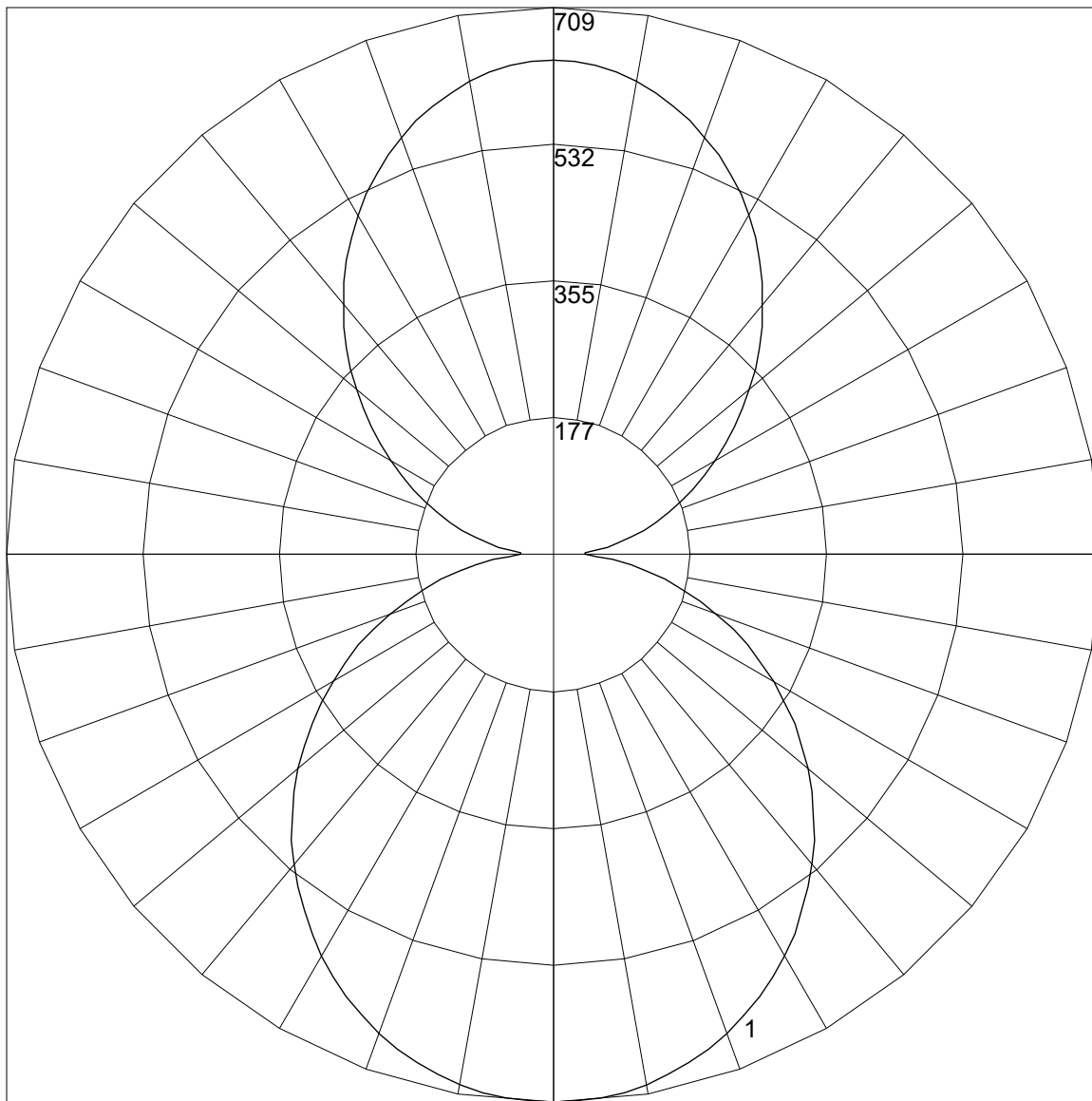
Zone	Lumens
0-10	67.10
10-20	192.33
20-30	291.52
30-40	351.88
40-50	367.34
50-60	337.03
60-70	266.82
70-80	171.16
80-90	70.44
90-100	49.40
100-110	116.89
110-120	189.04
120-130	250.53
130-140	288.88
140-150	291.54
150-160	251.30
160-170	170.35
170-180	60.35

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	94	90	86	91	87	84	80	75	72	70	64	62	60	53	52	51	46
2	89	82	75	70	83	76	70	65	65	61	57	56	52	50	47	44	42	38
3	81	71	64	58	75	67	60	54	57	52	48	49	45	42	41	38	36	32
4	74	63	55	49	69	59	51	46	51	45	41	43	39	35	36	33	30	27
5	68	56	48	41	63	52	45	39	45	39	35	39	34	31	33	29	26	23
6	63	50	42	36	58	47	39	34	41	35	30	35	30	27	30	26	23	20
7	58	45	37	31	54	42	35	30	37	31	27	32	27	23	27	23	20	18
8	54	41	33	28	50	39	31	26	34	28	24	29	24	21	25	21	18	16
9	50	37	30	25	46	35	28	23	31	25	21	27	22	19	23	19	16	14
10	47	34	27	22	43	32	26	21	28	23	19	25	20	17	21	18	15	13

POLAR GRAPH



Maximum Candela = 709.13 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)