

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-H-835-TG-F-ITL92550.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92550.001 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-H-835-TG-F
[INPUT_ELECTRICAL]120.0 VOLTS, 52.9 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 53.3 WATTS
[ABSOLUTE LUMENS]6365
[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	6365
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	52.9
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	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	1071.037	1070.260	1071.037
5.0	1066.371	1067.148	1067.148	1067.148	1067.148
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	1031.369	1032.147	1029.036
17.5	1017.369	1010.369	1016.591	1018.147	1015.813
20.0	1001.035	991.701	998.702	1000.257	997.146
22.5	980.812	971.479	980.034	980.812	976.923
25.0	959.811	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	787.916	780.916	788.694	789.472	789.472
42.5	754.471	748.248	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	396.680	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	85.558
90.0	1.556	17.890	39.668	57.558	63.780
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	267.519	283.849	298.625	304.069
112.5	302.514	306.402	322.733	335.953	341.397
115.0	342.952	346.063	363.950	375.615	380.281
117.5	386.502	389.613	404.388	416.053	419.942
120.0	430.051	431.607	446.383	457.270	461.158
122.5	475.934	474.379	488.377	498.486	504.708
125.0	522.594	518.706	531.926	540.481	545.924
127.5	569.255	564.588	577.031	584.808	589.474
130.0	615.137	609.693	620.581	628.357	631.468
132.5	663.352	656.354	667.241	671.907	678.128

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CANDELA TABULATION - (Cont.)

135.0	709.235	702.236	712.346	717.012	720.122
137.5	756.673	746.563	755.895	760.561	762.117
140.0	802.555	792.446	801.000	804.111	803.333
142.5	848.438	835.995	844.550	846.105	846.105
145.0	891.987	877.989	888.099	887.322	887.322
147.5	934.759	920.761	928.538	927.760	926.983
150.0	973.643	961.200	966.644	966.644	964.311
152.5	1011.749	996.973	1003.972	1001.639	1000.084
155.0	1047.522	1032.746	1039.745	1035.856	1033.523
157.5	1077.851	1065.408	1071.629	1068.519	1065.408
160.0	1106.624	1094.959	1101.181	1098.070	1093.404
162.5	1131.510	1122.178	1126.844	1124.511	1121.400
165.0	1154.840	1146.285	1149.396	1147.841	1143.175
167.5	1172.726	1168.060	1169.616	1168.060	1164.950
170.0	1188.280	1185.947	1186.724	1185.947	1183.614
172.5	1199.945	1199.167	1199.167	1198.389	1198.389
175.0	1208.499	1208.499	1208.499	1208.499	1208.499
177.5	1214.721	1213.943	1213.943	1213.943	1213.943
180.0	1216.276	1216.276	1216.276	1216.276	1216.276

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	392.12	N.A.	6.20
0-30	832.74	N.A.	13.10
0-40	1364.6	N.A.	21.40
0-60	2429.21	N.A.	38.20
0-80	3091.2	N.A.	48.60
0-90	3197.66	N.A.	50.20
10-90	3096.23	N.A.	48.60
20-40	972.48	N.A.	15.30
20-50	1527.69	N.A.	24.00
40-70	1467.89	N.A.	23.10
60-80	661.98	N.A.	10.40
70-80	258.70	N.A.	4.10
80-90	106.46	N.A.	1.70
90-110	314.59	N.A.	4.90
90-120	673.68	N.A.	10.60
90-130	1149.58	N.A.	18.10
90-150	2252.13	N.A.	35.40
90-180	3167.73	N.A.	49.80
110-180	2853.14	N.A.	44.80
0-180	6365.38	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	92.54
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

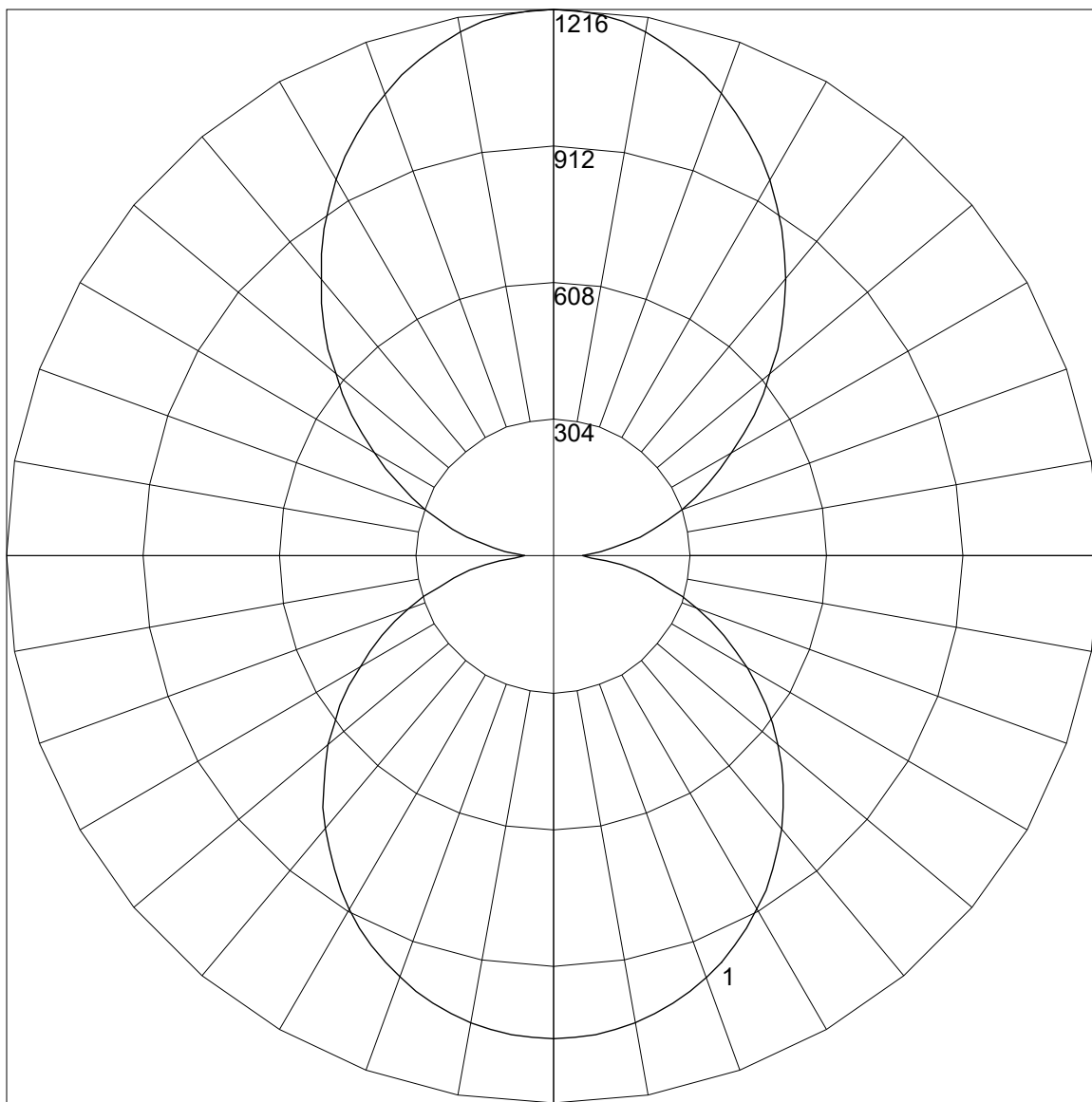
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	93	89	85	90	86	82	79	72	70	67	60	58	57	49	48	47	41
2	88	81	74	69	81	74	69	64	63	59	55	52	49	47	43	41	39	34
3	80	71	63	57	74	65	59	53	55	50	46	46	42	39	38	35	33	28
4	73	62	54	48	67	58	51	45	49	43	39	41	37	33	33	30	28	24
5	67	55	47	41	62	51	44	38	44	38	34	37	32	29	30	27	24	21
6	62	50	41	35	57	46	39	33	39	33	29	33	29	25	27	24	21	18
7	57	45	37	31	53	42	34	29	36	30	26	30	25	22	25	21	19	16
8	53	41	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17	14
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15	13
10	46	34	27	22	42	32	25	20	27	22	18	23	19	16	19	16	14	12

POLAR GRAPH



Maximum Candela = 1216.276 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)