

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-WSO-F-ITL92314.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92314.008 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/01/19
[ISSUEDATE]01/06/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-X-ID-4ft-H-B-835-WSO-F
[INPUT_ELECTRICAL]120.0 VOLTS, 43.6 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 44.7 WATTS
[ABSOLUTE LUMENS]5346
[OTHER]see www.finelite.com for source file ITL92314. 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	5346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	43.6
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9077	9116	9048
55	8781	8806	8745
65	8321	8370	8354
75	7742	7848	7902
85	6738	7214	7372

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	705.481	705.481	705.481	705.481	705.481
2.5	704.972	704.972	704.972	704.972	704.972
5.0	702.938	702.938	702.938	702.938	702.938
7.5	698.360	698.869	698.869	699.377	698.869
10.0	693.782	692.256	694.291	694.291	692.765
12.5	687.170	684.627	687.679	687.679	685.135
15.0	679.540	675.980	679.540	680.049	676.489
17.5	669.876	664.790	669.876	670.894	666.316
20.0	657.669	653.091	658.178	658.686	655.634
22.5	644.953	639.358	645.462	645.970	642.918
25.0	631.220	626.133	631.728	632.237	629.185
27.5	614.943	610.366	615.961	616.469	613.417
30.0	598.158	594.089	599.176	599.176	596.124
32.5	580.356	575.270	581.373	580.865	577.813
35.0	561.536	555.941	561.536	561.536	559.502
37.5	539.665	536.613	542.208	541.191	538.648
40.0	518.811	515.759	520.337	519.319	516.268
42.5	496.431	492.870	497.448	496.431	493.887
45.0	472.525	470.490	474.559	472.525	470.999
47.5	448.619	446.584	450.145	447.601	446.075
50.0	423.187	421.152	425.221	422.170	420.644
52.5	396.738	396.229	399.281	397.246	395.212
55.0	370.797	370.797	371.814	370.288	369.271
57.5	343.839	343.331	344.348	342.822	341.805
60.0	315.864	315.356	317.390	315.864	315.356
62.5	288.398	287.889	289.415	288.398	287.889
65.0	258.897	259.914	260.423	259.914	259.914
67.5	231.430	231.939	232.956	232.956	232.956
70.0	202.947	202.947	204.981	204.472	204.981
72.5	175.480	175.480	177.006	176.497	177.006
75.0	147.505	148.014	149.540	150.048	150.557
77.5	120.039	121.056	122.582	124.108	124.108
80.0	94.607	94.607	96.641	97.659	97.659
82.5	68.666	69.683	71.209	71.718	72.735
85.0	43.234	44.760	46.286	47.303	47.303
87.5	19.328	20.854	22.380	23.906	23.906
90.0	1.017	3.052	4.578	6.612	7.630
92.5	12.292	31.498	63.764	33.034	29.961
95.0	29.193	66.837	163.635	78.361	61.459
97.5	49.167	98.335	303.455	147.502	106.785
100.0	69.910	127.528	459.408	252.751	175.927
102.5	92.189	149.039	578.486	424.837	285.786
105.0	112.931	172.086	636.104	696.795	488.601
107.5	134.442	193.597	641.481	1009.469	799.739
110.0	157.489	215.876	626.116	1220.735	1139.301
112.5	180.537	238.155	611.520	1290.645	1338.276
115.0	202.816	261.970	604.606	1293.718	1413.563
117.5	225.095	285.017	605.374	1262.988	1433.538
120.0	244.301	305.760	606.142	1216.126	1412.795
122.5	262.738	323.430	607.679	1166.190	1371.310
125.0	278.103	338.794	609.983	1118.559	1319.070
127.5	293.468	353.391	609.983	1070.160	1263.756
130.0	308.833	366.451	610.752	1024.065	1206.138
132.5	321.893	377.206	608.447	979.507	1147.752

CANDELA TABULATION - (Cont.)

135.0	335.721	387.193	603.837	935.717	1085.524
137.5	349.550	397.949	598.460	894.232	1030.211
140.0	362.610	407.936	589.241	850.443	972.593
142.5	375.670	417.155	580.022	805.885	911.902
145.0	388.730	426.374	569.267	763.631	851.979
147.5	401.022	434.056	559.279	721.378	797.434
150.0	412.545	441.739	550.061	682.966	744.426
152.5	423.301	448.653	541.610	649.932	699.099
155.0	434.824	455.567	532.391	619.971	657.614
157.5	443.275	460.945	524.709	593.082	622.275
160.0	452.494	466.322	517.026	569.267	590.777
162.5	460.176	470.932	510.112	549.292	565.425
165.0	467.859	475.541	503.966	532.391	543.146
167.5	473.236	478.614	498.588	517.794	525.477
170.0	477.846	481.687	493.979	506.271	510.880
172.5	482.455	484.760	491.674	498.588	500.893
175.0	484.760	485.528	488.601	491.674	493.211
177.5	486.296	486.296	487.065	487.833	488.601
180.0	487.065	487.065	487.065	487.065	487.065

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	258.20	N.A.	4.80
0-30	548.43	N.A.	10.30
0-40	898.73	N.A.	16.80
0-60	1594.06	N.A.	29.80
0-80	2009.44	N.A.	37.60
0-90	2060.97	N.A.	38.60
10-90	1994.18	N.A.	37.30
20-40	640.53	N.A.	12.00
20-50	1004.7	N.A.	18.80
40-70	952.95	N.A.	17.80
60-80	415.38	N.A.	7.80
70-80	157.77	N.A.	3.00
80-90	51.53	N.A.	1.00
90-110	590.87	N.A.	11.10
90-120	1315.44	N.A.	24.60
90-130	1957.9	N.A.	36.60
90-150	2844.2	N.A.	53.20
90-180	3284.83	N.A.	61.40
110-180	2693.97	N.A.	50.40
0-180	5345.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

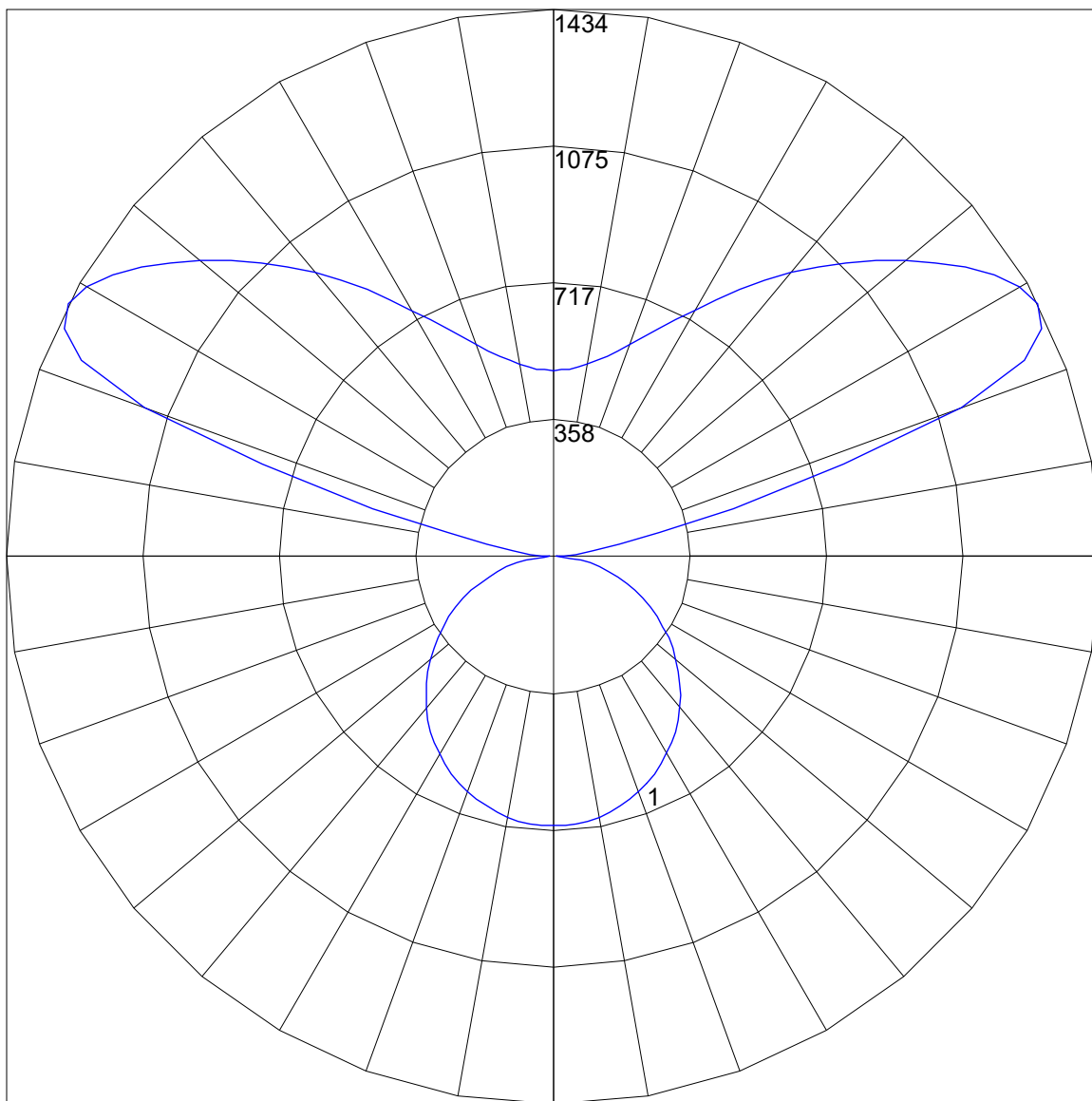
Zone	Lumens
0-10	66.79
10-20	191.41
20-30	290.23
30-40	350.30
40-50	364.17
50-60	331.16
60-70	257.61
70-80	157.77
80-90	51.53
90-100	110.25
100-110	480.61
110-120	724.58
120-130	642.46
130-140	511.52
140-150	374.77
150-160	250.29
160-170	143.51
170-180	46.84

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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	83	86	82	79	76	67	65	63	53	51	50	40	39	38	32
2	86	79	73	68	78	72	67	62	58	55	51	46	44	41	35	33	32	26
3	79	69	62	56	71	63	57	52	51	47	43	41	37	35	31	29	27	22
4	72	61	53	47	65	56	49	43	45	40	36	36	32	30	27	25	23	19
5	66	54	46	40	59	49	42	37	41	35	31	32	28	25	25	22	20	16
6	60	48	40	35	55	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	28	24	26	22	19	20	17	15	13
8	52	39	32	27	47	36	29	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	26	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 1433.538 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)