

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-WSO-F-ITL92314.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92314.015 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]10/01/19
[ISSUE DATE]01/06/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-X-ID-4ft-S-B-835-WSO-F
[INPUT_ELECTRICAL]120.0 VOLTS, 30.7 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 32.6 WATTS
[ABSOLUTE LUMENS]3790
[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	3790
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	30.7
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
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	6.470	16.578	33.561	17.387	15.770
95.0	15.365	35.178	86.126	41.244	32.348
97.5	25.878	51.757	159.718	77.635	56.205
100.0	36.796	67.122	241.801	133.031	92.596
102.5	48.522	78.444	304.476	223.606	150.418
105.0	59.439	90.574	334.802	366.745	257.167
107.5	70.761	101.896	337.632	531.316	420.928
110.0	82.892	113.622	329.545	642.512	599.651
112.5	95.022	125.349	321.863	679.308	704.378
115.0	106.748	137.883	318.223	680.925	744.004
117.5	118.475	150.014	318.628	664.751	754.517
120.0	128.583	160.931	319.032	640.086	743.600
122.5	138.288	170.231	319.841	613.803	721.765
125.0	146.375	178.318	321.054	588.734	694.269
127.5	154.462	186.001	321.054	563.260	665.156
130.0	162.549	192.875	321.458	538.999	634.830
132.5	169.423	198.536	320.245	515.546	604.099

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CANDELA TABULATION - (Cont.)

135.0	176.701	203.792	317.819	492.498	571.347
137.5	183.979	209.453	314.989	470.663	542.233
140.0	190.853	214.710	310.136	447.615	511.907
142.5	197.727	219.562	305.284	424.163	479.963
145.0	204.601	224.414	299.623	401.924	448.424
147.5	211.071	228.458	294.367	379.685	419.715
150.0	217.136	232.501	289.515	359.467	391.815
152.5	222.797	236.140	285.067	342.080	367.959
155.0	228.862	239.780	280.214	326.310	346.124
157.5	233.310	242.610	276.171	312.158	327.524
160.0	238.162	245.440	272.128	299.623	310.945
162.5	242.206	247.867	268.488	289.110	297.602
165.0	246.249	250.293	265.254	280.214	285.875
167.5	249.080	251.910	262.423	272.532	276.575
170.0	251.506	253.528	259.997	266.467	268.893
172.5	253.932	255.145	258.784	262.423	263.636
175.0	255.145	255.549	257.167	258.784	259.593
177.5	255.954	255.954	256.358	256.762	257.167
180.0	256.358	256.358	256.358	256.358	256.358

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	258.20	N.A.	6.80
0-30	548.43	N.A.	14.50
0-40	898.73	N.A.	23.70
0-60	1594.06	N.A.	42.10
0-80	2009.44	N.A.	53.00
0-90	2060.97	N.A.	54.40
10-90	1994.18	N.A.	52.60
20-40	640.53	N.A.	16.90
20-50	1004.7	N.A.	26.50
40-70	952.95	N.A.	25.10
60-80	415.38	N.A.	11.00
70-80	157.77	N.A.	4.20
80-90	51.53	N.A.	1.40
90-110	311.29	N.A.	8.20
90-120	692.66	N.A.	18.30
90-130	1030.81	N.A.	27.20
90-150	1497.29	N.A.	39.50
90-180	1729.22	N.A.	45.60
110-180	1417.92	N.A.	37.40
0-180	3790.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

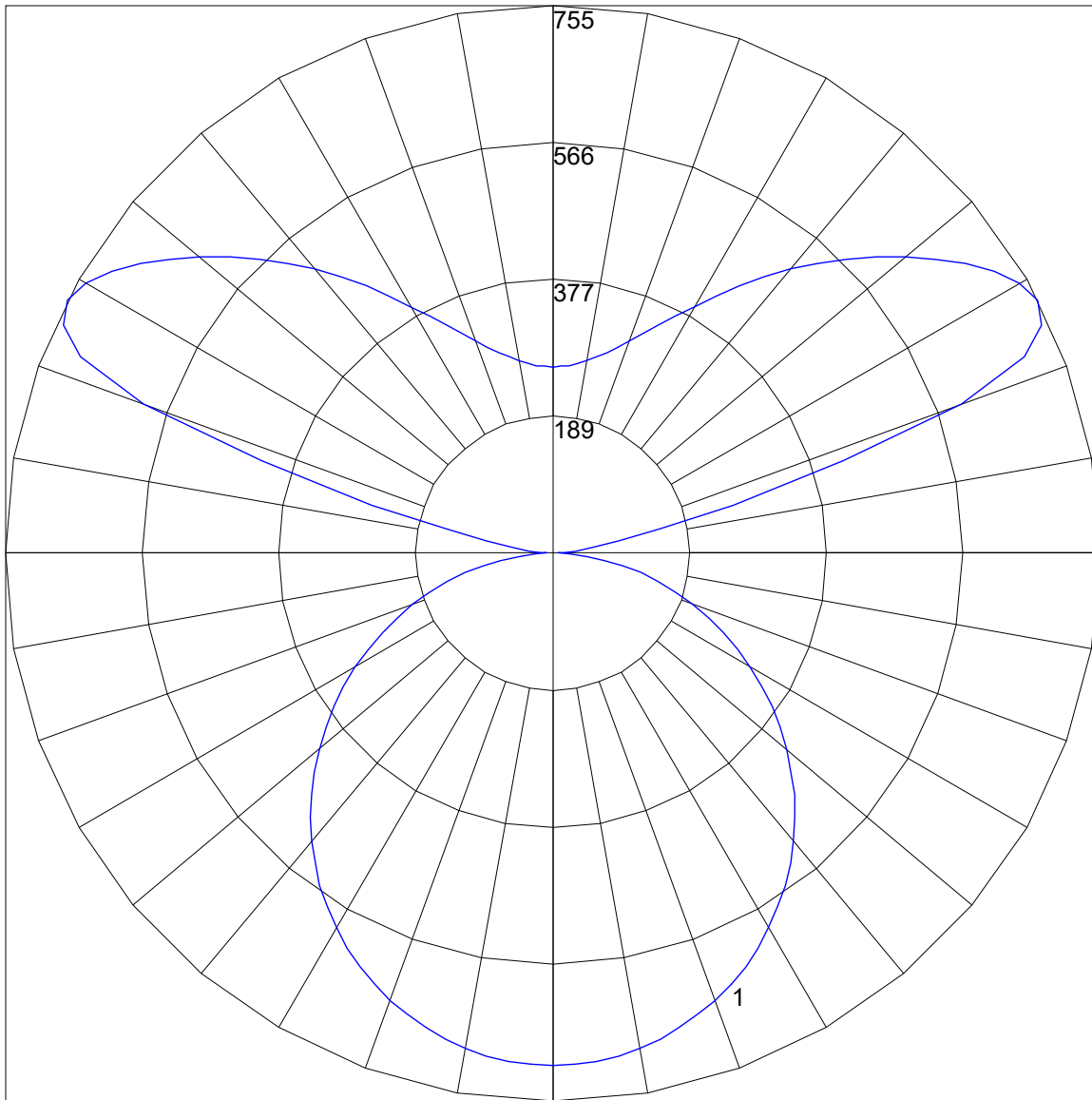
Zone	Lumens
0-10	66.79
10-20	191.41
20-30	290.23
30-40	350.30
40-50	364.17
50-60	331.16
60-70	257.61
70-80	157.77
80-90	51.53
90-100	58.33
100-110	252.96
110-120	381.37
120-130	338.15
130-140	269.23
140-150	197.25
150-160	131.73
160-170	75.53
170-180	24.66

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	98	94	90	86	91	87	84	81	75	72	70	63	61	60	53	51	50	45
2	89	82	75	70	83	76	70	66	65	61	57	55	52	49	46	44	42	37
3	81	72	64	58	75	67	60	55	57	52	48	49	45	41	40	38	35	31
4	74	63	55	49	69	59	52	46	51	45	41	43	39	35	36	33	30	27
5	68	56	48	42	63	52	45	39	45	39	35	39	34	30	32	29	26	23
6	63	50	42	36	58	47	40	34	41	35	30	35	30	27	29	26	23	20
7	58	45	37	32	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	24	21	18	16
9	50	38	30	25	46	35	28	24	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	17	15	13

POLAR GRAPH



Maximum Candela = 754.517 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)