

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-2-ID-4FT-V-H-837-XXIC-ITL85132.206.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132.206 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/11/15
[ISSUEDATE]05/03/2021
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-2-ID-4ft-V-H-837-XXIC
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 61.9 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 61.9 WATTS
[ABSOLUTE]LUMENS]6094
[OTHER]see www.finelite.com for source file ITL85132. 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	6094
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	61.9
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)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12133	11630	11063
55	11043	10504	9965
65	9974	9459	8998
75	8984	8497	8143
85	7885	7622	7228

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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	991.340	991.340	991.340	991.340	991.340
2.5	989.077	990.586	989.831	989.831	989.831
5.0	985.304	986.059	984.550	983.796	983.796
7.5	977.006	977.760	975.497	974.742	974.742
10.0	966.443	964.934	963.426	962.671	961.162
12.5	952.109	949.091	947.582	945.319	942.301
15.0	936.266	930.230	928.721	924.194	920.422
17.5	916.650	908.351	906.088	899.298	894.771
20.0	894.017	884.209	880.437	872.138	865.348
22.5	867.611	857.049	852.522	843.469	835.170
25.0	840.451	828.380	821.590	811.782	802.729
27.5	809.519	798.957	790.658	777.832	768.024
30.0	777.832	766.516	756.708	742.373	732.566
32.5	743.882	732.566	722.003	706.160	698.616
35.0	710.687	697.861	686.544	669.192	661.648
37.5	675.228	663.157	650.331	633.733	625.434
40.0	639.014	626.189	614.872	596.011	588.467
42.5	602.047	589.976	577.904	559.043	551.499
45.0	565.079	553.762	541.691	522.830	515.286
47.5	528.111	516.794	504.723	486.617	479.827
50.0	490.389	479.827	468.510	450.403	444.368
52.5	453.421	443.613	432.297	415.699	409.663
55.0	417.208	408.909	396.838	381.749	376.468
57.5	381.749	374.204	362.133	348.553	344.027
60.0	345.536	338.746	328.183	315.358	311.586
62.5	311.586	304.796	294.988	285.180	280.653
65.0	277.636	271.600	263.301	254.248	250.476
67.5	245.949	239.159	233.123	224.070	221.052
70.0	213.508	208.981	202.191	196.156	192.383
72.5	182.576	178.803	173.522	168.241	165.223
75.0	153.152	149.380	144.853	141.081	138.818
77.5	124.483	121.466	118.448	115.430	112.412
80.0	96.569	95.060	92.042	89.779	88.270
82.5	70.163	68.654	67.146	65.637	64.128
85.0	45.267	44.512	43.758	43.003	41.494
87.5	20.370	19.616	20.370	21.124	20.370
90.0	0.000	0.000	0.000	0.000	0.000
92.5	29.100	29.100	29.100	32.010	32.010
95.0	68.870	65.960	65.960	66.930	67.900
97.5	108.640	105.730	103.790	104.760	104.760
100.0	149.380	144.530	144.530	144.530	143.560
102.5	192.060	188.180	186.240	185.270	185.270
105.0	236.680	233.770	228.920	227.950	226.980
107.5	282.270	279.360	273.540	272.570	271.600
110.0	329.800	326.890	322.040	320.100	317.190
112.5	379.270	374.420	371.510	366.660	363.750
115.0	428.740	425.830	423.890	414.190	412.250
117.5	481.120	476.270	476.270	464.630	462.690
120.0	534.470	526.710	528.650	517.010	513.130
122.5	584.910	577.150	581.030	571.330	564.540
125.0	641.170	629.530	633.410	623.710	618.860
127.5	696.460	683.850	685.790	678.030	676.090
130.0	750.780	738.170	740.110	730.410	731.380
132.5	805.100	791.520	794.430	784.730	784.730

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CANDELA TABULATION - (Cont.)

135.0	857.480	844.870	848.750	840.020	840.020
137.5	910.830	898.220	902.100	894.340	893.370
140.0	964.180	951.570	954.480	949.630	946.720
142.5	1014.620	1001.040	1004.920	1000.070	996.190
145.0	1066.030	1051.480	1055.360	1051.480	1044.690
147.5	1113.560	1099.010	1103.860	1098.040	1091.250
150.0	1159.150	1144.600	1150.420	1143.630	1137.810
152.5	1202.800	1188.250	1194.070	1188.250	1182.430
155.0	1244.510	1229.960	1236.750	1230.930	1225.110
157.5	1280.400	1266.820	1274.580	1268.760	1262.940
160.0	1315.320	1302.710	1309.500	1303.680	1297.860
162.5	1345.390	1334.720	1339.570	1335.690	1331.810
165.0	1372.550	1362.850	1365.760	1363.820	1360.910
167.5	1392.920	1387.100	1389.040	1387.100	1386.130
170.0	1411.350	1408.440	1409.410	1407.470	1406.500
172.5	1426.870	1425.900	1425.900	1424.930	1424.930
175.0	1437.540	1437.540	1437.540	1437.540	1436.570
177.5	1443.360	1444.330	1444.330	1444.330	1443.360
180.0	1447.240	1447.240	1447.240	1447.240	1447.240

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	354.42	N.A.	5.80
0-30	732.07	N.A.	12.00
0-40	1160.45	N.A.	19.00
0-60	1931.28	N.A.	31.70
0-80	2346.84	N.A.	38.50
0-90	2395.09	N.A.	39.30
10-90	2301.76	N.A.	37.80
20-40	806.04	N.A.	13.20
20-50	1222.34	N.A.	20.10
40-70	1032.13	N.A.	16.90
60-80	415.55	N.A.	6.80
70-80	154.25	N.A.	2.50
80-90	48.25	N.A.	0.80
90-110	319.33	N.A.	5.20
90-120	736.94	N.A.	12.10
90-130	1300.2	N.A.	21.30
90-150	2610.88	N.A.	42.80
90-180	3698.96	N.A.	60.70
110-180	3379.63	N.A.	55.50
0-180	6094.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

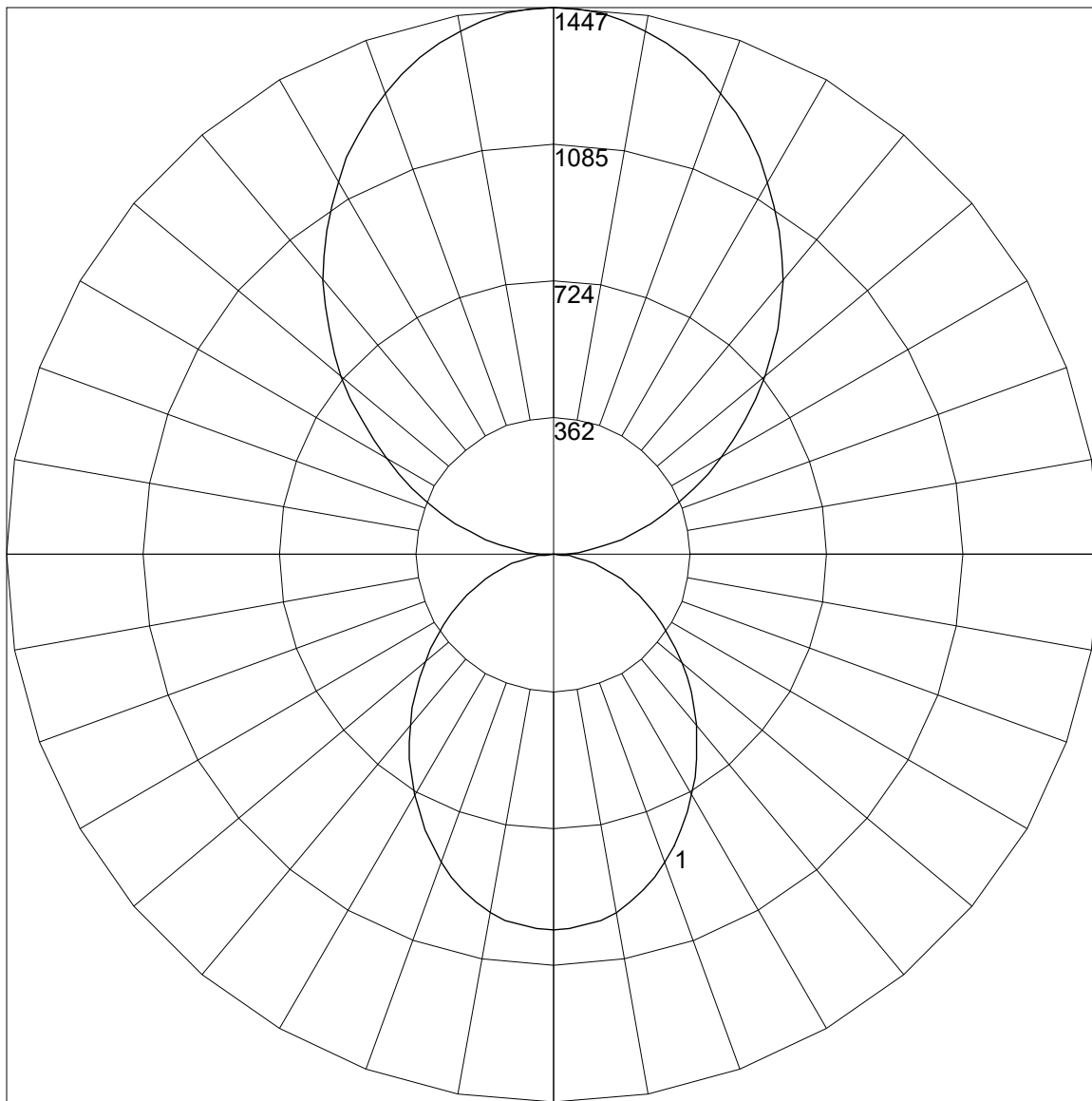
Zone	Lumens
0-10	93.33
10-20	261.09
20-30	377.66
30-40	428.38
40-50	416.31
50-60	354.52
60-70	261.30
70-80	154.25
80-90	48.25
90-100	74.75
100-110	244.58
110-120	417.61
120-130	563.25
130-140	652.38
140-150	658.31
150-160	567.24
160-170	384.55
170-180	136.30

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	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 1447.24 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)