

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-H-V-837-XXIC-ITL85132.209.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132.209 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-H-V-837-XXIC
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 61.9 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 61.9 WATTS
[ABSOLUTE]LUMENS]5956
[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	5956
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	61.9
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
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	15599	14953	14224
55	14198	13505	12812
65	12823	12161	11569
75	11550	10925	10469
85	10138	9800	9293

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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	1274.580	1274.580	1274.580	1274.580	1274.580
2.5	1271.670	1273.610	1272.640	1272.640	1272.640
5.0	1266.820	1267.790	1265.850	1264.880	1264.880
7.5	1256.150	1257.120	1254.210	1253.240	1253.240
10.0	1242.570	1240.630	1238.690	1237.720	1235.780
12.5	1224.140	1220.260	1218.320	1215.410	1211.530
15.0	1203.770	1196.010	1194.070	1188.250	1183.400
17.5	1178.550	1167.880	1164.970	1156.240	1150.420
20.0	1149.450	1136.840	1131.990	1121.320	1112.590
22.5	1115.500	1101.920	1096.100	1084.460	1073.790
25.0	1080.580	1065.060	1056.330	1043.720	1032.080
27.5	1040.810	1027.230	1016.560	1000.070	987.460
30.0	1000.070	985.520	972.910	954.480	941.870
32.5	956.420	941.870	928.290	907.920	898.220
35.0	913.740	897.250	882.700	860.390	850.690
37.5	868.150	852.630	836.140	814.800	804.130
40.0	821.590	805.100	790.550	766.300	756.600
42.5	774.060	758.540	743.020	718.770	709.070
45.0	726.530	711.980	696.460	672.210	662.510
47.5	679.000	664.450	648.930	625.650	616.920
50.0	630.500	616.920	602.370	579.090	571.330
52.5	582.970	570.360	555.810	534.470	526.710
55.0	536.410	525.740	510.220	490.820	484.030
57.5	490.820	481.120	465.600	448.140	442.320
60.0	444.260	435.530	421.950	405.460	400.610
62.5	400.610	391.880	379.270	366.660	360.840
65.0	356.960	349.200	338.530	326.890	322.040
67.5	316.220	307.490	299.730	288.090	284.210
70.0	274.510	268.690	259.960	252.200	247.350
72.5	234.740	229.890	223.100	216.310	212.430
75.0	196.910	192.060	186.240	181.390	178.480
77.5	160.050	156.170	152.290	148.410	144.530
80.0	124.160	122.220	118.340	115.430	113.490
82.5	90.210	88.270	86.330	84.390	82.450
85.0	58.200	57.230	56.260	55.290	53.350
87.5	26.190	25.220	26.190	27.160	26.190
90.0	0.000	0.000	0.000	0.000	0.000
92.5	22.633	22.633	22.633	24.897	24.897
95.0	53.566	51.302	51.302	52.057	52.811
97.5	84.498	82.234	80.726	81.480	81.480
100.0	116.184	112.412	112.412	112.412	111.658
102.5	149.380	146.362	144.853	144.099	144.099
105.0	184.084	181.821	178.049	177.294	176.540
107.5	219.543	217.280	212.753	211.999	211.244
110.0	256.511	254.248	250.476	248.967	246.703
112.5	294.988	291.216	288.952	285.180	282.917
115.0	333.464	331.201	329.692	322.148	320.639
117.5	374.204	370.432	370.432	361.379	359.870
120.0	415.699	409.663	411.172	402.119	399.101
122.5	454.930	448.894	451.912	444.368	439.087
125.0	498.688	489.634	492.652	485.108	481.336
127.5	541.691	531.883	533.392	527.357	525.848
130.0	583.940	574.132	575.641	568.097	568.851
132.5	626.189	615.627	617.890	610.346	610.346

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CANDELA TABULATION - (Cont.)

135.0	666.929	657.121	660.139	653.349	653.349
137.5	708.423	698.616	701.633	695.598	694.843
140.0	749.918	740.110	742.373	738.601	736.338
142.5	789.149	778.587	781.604	777.832	774.814
145.0	829.134	817.818	820.836	817.818	812.537
147.5	866.102	854.786	858.558	854.031	848.750
150.0	901.561	890.244	894.771	889.490	884.963
152.5	935.511	924.194	928.721	924.194	919.668
155.0	967.952	956.636	961.917	957.390	952.863
157.5	995.867	985.304	991.340	986.813	982.287
160.0	1023.027	1013.219	1018.500	1013.973	1009.447
162.5	1046.414	1038.116	1041.888	1038.870	1035.852
165.0	1067.539	1059.994	1062.258	1060.749	1058.486
167.5	1083.382	1078.856	1080.364	1078.856	1078.101
170.0	1097.717	1095.453	1096.208	1094.699	1093.944
172.5	1109.788	1109.033	1109.033	1108.279	1108.279
175.0	1118.087	1118.087	1118.087	1118.087	1117.332
177.5	1122.613	1123.368	1123.368	1123.368	1122.613
180.0	1125.631	1125.631	1125.631	1125.631	1125.631

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	455.68	N.A.	7.70
0-30	941.24	N.A.	15.80
0-40	1492.01	N.A.	25.00
0-60	2483.08	N.A.	41.70
0-80	3017.36	N.A.	50.70
0-90	3079.4	N.A.	51.70
10-90	2959.4	N.A.	49.70
20-40	1036.33	N.A.	17.40
20-50	1571.59	N.A.	26.40
40-70	1327.03	N.A.	22.30
60-80	534.28	N.A.	9.00
70-80	198.32	N.A.	3.30
80-90	62.04	N.A.	1.00
90-110	248.37	N.A.	4.20
90-120	573.18	N.A.	9.60
90-130	1011.26	N.A.	17.00
90-150	2030.69	N.A.	34.10
90-180	2876.97	N.A.	48.30
110-180	2628.6	N.A.	44.10
0-180	5956.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

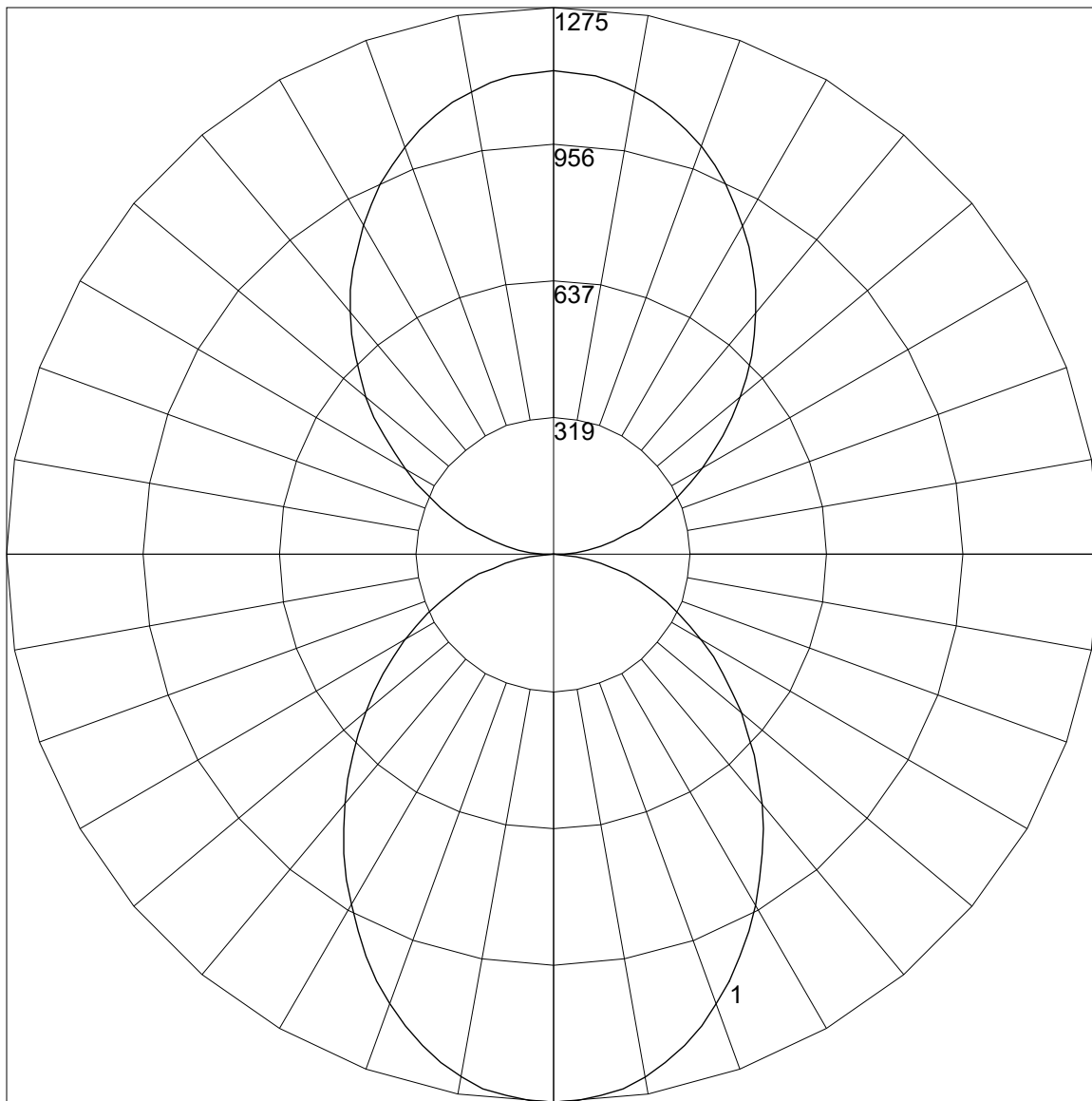
Zone	Lumens
0-10	119.99
10-20	335.68
20-30	485.56
30-40	550.78
40-50	535.25
50-60	455.82
60-70	335.96
70-80	198.32
80-90	62.04
90-100	58.14
100-110	190.23
110-120	324.81
120-130	438.09
130-140	507.41
140-150	512.02
150-160	441.18
160-170	299.09
170-180	106.01

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	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	94	90	86	91	87	84	81	74	71	69	62	60	59	51	50	49	44
2	89	82	76	71	82	76	71	66	65	61	57	55	52	49	45	43	41	37
3	82	72	65	59	75	67	61	55	57	52	48	48	45	42	40	37	35	31
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	36	33	30	27
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	23
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	29	26	23	21
7	59	46	38	33	54	43	36	31	37	32	28	32	28	24	27	24	21	18
8	54	42	34	29	50	39	32	28	34	29	25	29	25	22	25	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14

POLAR GRAPH



Maximum Candela = 1274.58 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)