

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-H-837-XXIC-ITL85132.203.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132.203 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-H-837-XXIC
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 53.7 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 54.0 WATTS
[ABSOLUTE]LUMENS]5272
[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	5272
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	53.7
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)	0.18 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	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	354.42	N.A.	6.70
0-30	732.07	N.A.	13.90
0-40	1160.45	N.A.	22.00
0-60	1931.28	N.A.	36.60
0-80	2346.84	N.A.	44.50
0-90	2395.09	N.A.	45.40
10-90	2301.76	N.A.	43.70
20-40	806.04	N.A.	15.30
20-50	1222.34	N.A.	23.20
40-70	1032.13	N.A.	19.60
60-80	415.55	N.A.	7.90
70-80	154.25	N.A.	2.90
80-90	48.25	N.A.	0.90
90-110	248.37	N.A.	4.70
90-120	573.18	N.A.	10.90
90-130	1011.26	N.A.	19.20
90-150	2030.69	N.A.	38.50
90-180	2876.97	N.A.	54.60
110-180	2628.6	N.A.	49.90
0-180	5272.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

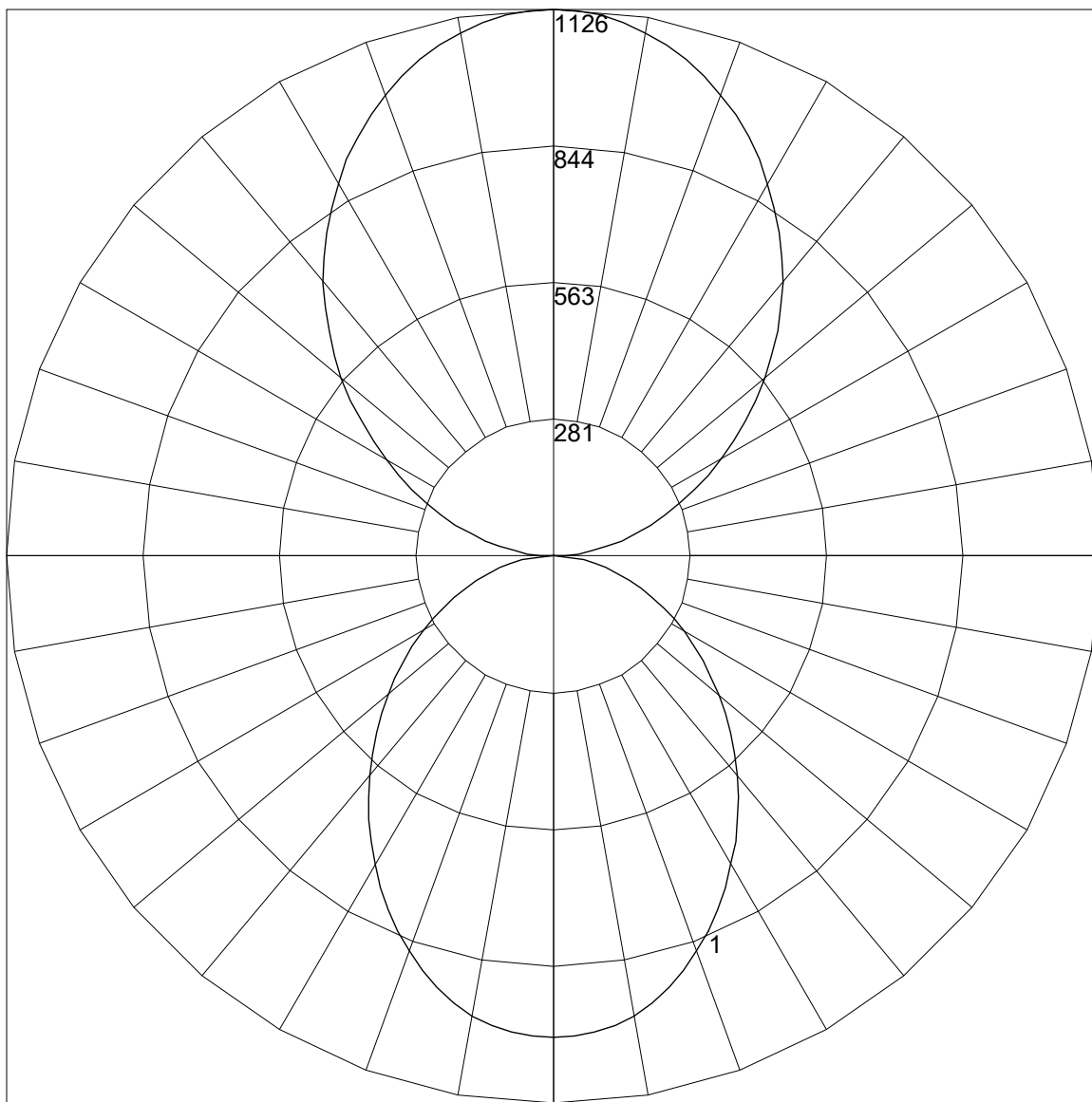
Zone	Lumens
0-10	93.33
10-20	261.09
20-30	377.66
30-40	428.38
40-50	416.31
50-60	354.52
60-70	261.30
70-80	154.25
80-90	48.25
90-100	58.14
100-110	190.23
110-120	324.81
120-130	438.09
130-140	507.41
140-150	512.02
150-160	441.18
160-170	299.09
170-180	106.01

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	92	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	80	71	64	58	74	65	59	54	55	50	46	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	30	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	21
6	62	50	42	37	57	47	40	34	39	34	30	33	29	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	53	41	34	28	49	38	31	27	33	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	17	15	13
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14	12

POLAR GRAPH



Maximum Candela = 1125.631 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)