

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-4-ID-4FT-H-V-837-XXIC-ITL85125.209.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125.209 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/06/15
[ISSUE DATE]05/13/2021
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-ID-4ft-H-V-837-XXIC
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 62.3 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 62.5 WATTS
[ABSOLUTE LUMENS]6470
[OTHER]see www.finelite.com for source file ITL85125. 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	6470
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	62.3
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)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9406	9275	9110
55	8734	8599	8423
65	7970	7860	7731
75	6970	6970	6940
85	5774	6041	6219

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-837-XXIC-ITL85125.209.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1341.990	1341.990	1341.990	1341.990	1341.990
2.5	1339.200	1339.200	1339.200	1339.200	1339.200
5.0	1332.690	1333.620	1333.620	1332.690	1333.620
7.5	1323.390	1324.320	1323.390	1321.530	1323.390
10.0	1310.370	1307.580	1308.510	1308.510	1306.650
12.5	1294.560	1289.910	1290.840	1290.840	1286.190
15.0	1272.240	1264.800	1269.450	1267.590	1261.080
17.5	1248.060	1237.830	1242.480	1240.620	1234.110
20.0	1219.230	1208.070	1211.790	1209.000	1202.490
22.5	1187.610	1175.520	1178.310	1174.590	1168.080
25.0	1152.270	1139.250	1142.040	1138.320	1130.880
27.5	1114.140	1101.120	1102.980	1098.330	1091.820
30.0	1073.220	1060.200	1061.130	1056.480	1049.040
32.5	1030.440	1020.210	1019.280	1012.770	1006.260
35.0	987.660	976.500	975.570	967.200	961.620
37.5	941.160	930.000	930.930	920.700	915.120
40.0	894.660	885.360	884.430	874.200	868.620
42.5	850.020	837.930	835.140	826.770	821.190
45.0	798.870	790.500	787.710	779.340	773.760
47.5	749.580	741.210	739.350	730.980	725.400
50.0	700.290	692.850	690.060	681.690	677.040
52.5	651.000	643.560	642.630	633.330	628.680
55.0	601.710	595.200	592.410	584.040	580.320
57.5	551.490	545.910	543.120	535.680	531.960
60.0	503.130	496.620	494.760	488.250	485.460
62.5	452.910	447.330	445.470	439.890	438.030
65.0	404.550	399.900	398.970	394.320	392.460
67.5	355.260	352.470	351.540	347.820	345.960
70.0	307.830	305.970	305.970	303.180	301.320
72.5	261.330	262.260	260.400	261.330	258.540
75.0	216.690	217.620	216.690	217.620	215.760
77.5	173.910	174.840	176.700	176.700	176.700
80.0	133.920	134.850	136.710	137.640	137.640
82.5	97.650	98.580	99.510	100.440	100.440
85.0	60.450	62.310	63.240	64.170	65.100
87.5	26.040	27.900	28.830	31.620	31.620
90.0	0.000	0.000	0.000	0.000	0.000
92.5	21.700	23.147	24.593	27.487	28.210
95.0	51.357	52.080	54.973	58.590	59.313
97.5	83.183	83.907	87.523	91.140	90.417
100.0	115.733	117.180	120.797	124.413	123.690
102.5	149.007	151.900	155.517	159.133	159.133
105.0	185.897	188.790	192.407	195.300	194.577
107.5	224.957	227.127	229.297	232.190	232.190
110.0	266.910	266.910	269.080	271.973	271.250
112.5	308.863	307.417	310.310	314.650	311.033
115.0	350.817	349.370	350.817	354.433	351.540
117.5	392.770	393.493	394.217	394.940	392.770
120.0	435.447	436.893	436.170	435.447	434.000
122.5	478.847	480.293	480.293	478.123	475.953
125.0	522.970	525.140	525.140	520.800	518.630
127.5	567.093	568.540	569.987	563.477	559.137
130.0	609.770	610.493	611.940	607.600	603.983
132.5	653.170	652.447	653.170	650.277	645.937

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-837-XXIC-ITL85125.209.IES

CANDELA TABULATION - (Cont.)

135.0	696.570	692.953	695.123	692.953	687.890
137.5	738.523	732.737	736.353	733.460	728.397
140.0	780.477	773.967	778.307	775.413	769.627
142.5	818.813	813.750	818.813	814.473	809.410
145.0	860.043	851.363	857.150	852.810	847.747
147.5	896.933	888.253	894.040	889.700	884.637
150.0	933.100	923.697	929.483	925.143	920.803
152.5	964.927	957.693	963.480	958.417	954.800
155.0	996.030	988.797	993.860	989.520	985.903
157.5	1026.410	1019.177	1023.517	1019.177	1016.283
160.0	1052.450	1046.663	1051.003	1046.663	1044.493
162.5	1077.043	1070.533	1075.597	1071.257	1069.810
165.0	1097.297	1092.233	1095.127	1092.957	1092.233
167.5	1115.380	1111.040	1113.210	1111.763	1111.763
170.0	1130.570	1127.677	1129.123	1127.677	1127.677
172.5	1141.420	1141.420	1140.697	1140.697	1140.697
175.0	1150.100	1150.100	1150.100	1149.377	1150.100
177.5	1155.163	1155.887	1155.887	1155.887	1155.887
180.0	1157.333	1157.333	1157.333	1157.333	1157.333

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-837-XXIC-ITL85125.209.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	483.44	N.A.	7.50
0-30	1008.27	N.A.	15.60
0-40	1616.87	N.A.	25.00
0-60	2751.47	N.A.	42.50
0-80	3376.04	N.A.	52.20
0-90	3446.76	N.A.	53.30
10-90	3320.27	N.A.	51.30
20-40	1133.42	N.A.	17.50
20-50	1739.7	N.A.	26.90
40-70	1528.54	N.A.	23.60
60-80	624.57	N.A.	9.70
70-80	230.63	N.A.	3.60
80-90	70.72	N.A.	1.10
90-110	265.35	N.A.	4.10
90-120	613.80	N.A.	9.50
90-130	1081.25	N.A.	16.70
90-150	2149.84	N.A.	33.20
90-180	3023.71	N.A.	46.70
110-180	2758.36	N.A.	42.60
0-180	6470.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.48
10-20	356.96
20-30	524.83
30-40	608.60
40-50	606.28
50-60	528.33
60-70	393.94
70-80	230.63
80-90	70.72
90-100	62.00
100-110	203.34
110-120	348.45
120-130	467.46
130-140	534.77
140-150	533.82
150-160	456.44
160-170	308.33
170-180	109.09

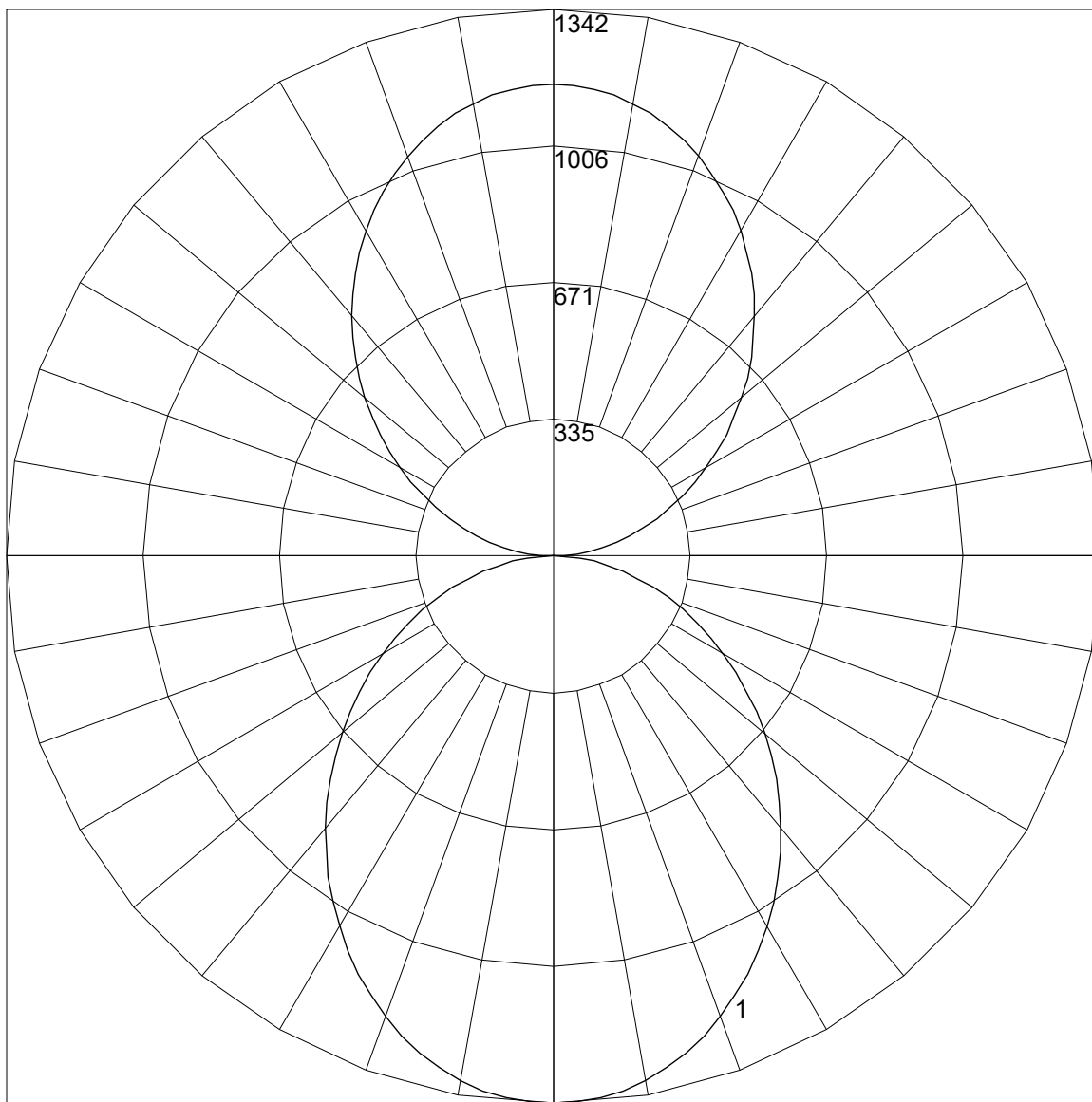
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-837-XXIC-ITL85125.209.IES

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	85	85	85	72	72	72	59	59	59	53
1	98	94	90	87	91	87	84	81	75	72	70	63	61	59	52	51	50	45
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42	37
3	82	72	65	59	75	67	61	55	58	53	49	49	45	42	41	38	36	32
4	75	64	56	50	69	60	52	47	51	46	41	44	39	36	36	33	31	27
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27	24
6	63	51	43	37	58	48	40	35	41	36	31	35	31	27	30	26	24	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	27	34	29	24	29	25	22	25	21	19	16
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	21	18	15	14

POLAR GRAPH



Maximum Candela = 1341.99 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)