

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-WSO-DSO-ITL89456-ITL94139.204.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.204 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]05/03/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-V-H-837-XXIC-WSO-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 61.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 61.9 WATTS

[OTHER]see www.finelite.com for source files ITL89456 and ITL94139. 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

[_ABSOLUTE]LUMENS]6367

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6367
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	10433	13187	13544
55	9487	12143	12143
65	8511	10788	10490
75	7569	9206	8719
85	6572	6966	6309

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-H-837-XXIC-WSO-DSO-ITL89456-ITL94139.204.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	879.797	879.797	879.797	879.797	879.797
2.5	878.288	878.288	879.043	880.552	880.552
5.0	873.761	874.516	878.288	882.061	883.570
7.5	865.461	868.479	875.270	883.570	888.097
10.0	854.897	858.670	873.761	889.607	894.888
12.5	842.070	846.597	872.252	894.134	900.170
15.0	824.716	832.261	867.725	895.643	903.188
17.5	806.607	816.416	861.688	895.643	904.697
20.0	783.970	798.307	854.143	891.870	901.679
22.5	759.825	777.180	841.316	883.570	894.888
25.0	732.661	756.052	826.979	872.252	882.816
27.5	705.498	733.416	810.379	856.407	866.970
30.0	676.071	709.271	789.252	835.279	843.579
32.5	645.889	682.107	767.371	811.134	817.925
35.0	614.198	653.434	742.471	781.707	786.234
37.5	583.262	624.762	713.043	749.261	751.525
40.0	550.062	594.580	681.353	714.552	713.043
42.5	518.371	562.889	648.907	675.316	672.298
45.0	485.926	530.444	614.198	635.325	630.798
47.5	454.235	497.998	576.471	593.825	589.298
50.0	421.035	464.799	537.989	550.817	543.271
52.5	388.590	430.090	498.753	508.562	501.017
55.0	358.408	396.135	458.762	464.799	458.762
57.5	326.717	362.181	418.772	422.544	412.735
60.0	296.536	327.472	378.781	381.799	371.990
62.5	267.863	294.272	340.299	339.544	331.999
65.0	236.927	262.581	300.308	299.554	292.008
67.5	209.763	230.136	262.581	260.317	252.772
70.0	181.845	199.199	226.363	222.590	215.799
72.5	154.681	169.018	190.899	187.127	181.090
75.0	129.027	139.590	156.945	153.172	148.645
77.5	104.882	112.427	124.500	120.727	116.954
80.0	82.245	86.018	95.072	90.545	87.527
82.5	60.363	61.873	66.400	63.382	61.118
85.0	37.727	39.236	39.991	37.727	36.218
87.5	17.354	17.354	15.845	15.091	13.582
90.0	0.000	0.000	0.000	0.000	0.000
92.5	17.460	30.070	30.070	29.100	29.100
95.0	45.590	80.510	80.510	66.930	65.960
97.5	76.630	131.920	161.990	116.400	109.610
100.0	108.640	171.690	322.040	187.210	164.900
102.5	143.560	209.520	445.230	330.770	262.870
105.0	177.510	250.260	516.040	539.320	444.260
107.5	211.460	290.030	559.690	727.500	678.030
110.0	245.410	326.890	598.490	838.080	846.810
112.5	279.360	362.780	644.080	910.830	947.690
115.0	314.280	396.730	698.400	963.210	1016.560
117.5	349.200	430.680	757.570	1012.680	1069.910
120.0	384.120	466.570	806.070	1065.060	1123.260
122.5	416.130	496.640	840.990	1138.780	1179.520
125.0	446.200	525.740	860.390	1219.290	1260.030
127.5	474.330	552.900	872.030	1273.610	1349.270
130.0	497.610	576.180	878.820	1295.920	1413.290
132.5	520.890	597.520	880.760	1287.190	1433.660

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-H-837-XXIC-WSO-DSO-ITL89456-ITL94139.204.IES****CANDELA TABULATION - (Cont.)**

135.0	541.260	614.980	879.790	1260.030	1413.290
137.5	559.690	631.470	876.880	1223.170	1370.610
140.0	578.120	646.020	872.030	1182.430	1316.290
142.5	595.580	659.600	865.240	1136.840	1258.090
145.0	614.010	672.210	858.450	1093.190	1198.920
147.5	629.530	681.910	850.690	1048.570	1138.780
150.0	645.050	692.580	840.990	1008.800	1082.520
152.5	659.600	700.340	829.350	970.970	1030.140
155.0	673.180	706.160	817.710	934.110	981.640
157.5	685.790	713.920	807.040	900.160	937.990
160.0	696.460	718.770	794.430	867.180	897.250
162.5	706.160	722.650	781.820	839.050	859.420
165.0	713.920	726.530	769.210	811.890	827.410
167.5	720.710	729.440	759.510	788.610	799.280
170.0	726.530	732.350	752.720	770.180	776.970
172.5	729.440	734.290	744.960	754.660	760.480
175.0	733.320	735.260	740.110	744.960	746.900
177.5	735.260	735.260	737.200	737.200	738.170
180.0	736.230	736.230	736.230	736.230	736.230

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Zone	Lumens	%Lamp	%Fixt
0-20	328.05	N.A.	5.20
0-30	703.71	N.A.	11.10
0-40	1153.09	N.A.	18.10
0-60	1989.92	N.A.	31.30
0-80	2425.89	N.A.	38.10
0-90	2469.98	N.A.	38.80
10-90	2386.29	N.A.	37.50
20-40	825.04	N.A.	13.00
20-50	1275.56	N.A.	20.00
40-70	1116.32	N.A.	17.50
60-80	435.97	N.A.	6.80
70-80	156.48	N.A.	2.50
80-90	44.09	N.A.	0.70
90-110	510.01	N.A.	8.00
90-120	1182.9	N.A.	18.60
90-130	1952.09	N.A.	30.70
90-150	3225.77	N.A.	50.70
90-180	3897.27	N.A.	61.20
110-180	3387.26	N.A.	53.20
0-180	6367.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	83.69
10-20	244.36
20-30	375.65
30-40	449.39
40-50	450.52
50-60	386.30
60-70	279.50
70-80	156.48
80-90	44.09
90-100	88.96
100-110	421.05
110-120	672.89
120-130	769.19
130-140	718.90
140-150	554.78
150-160	381.35
160-170	219.15
170-180	71.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

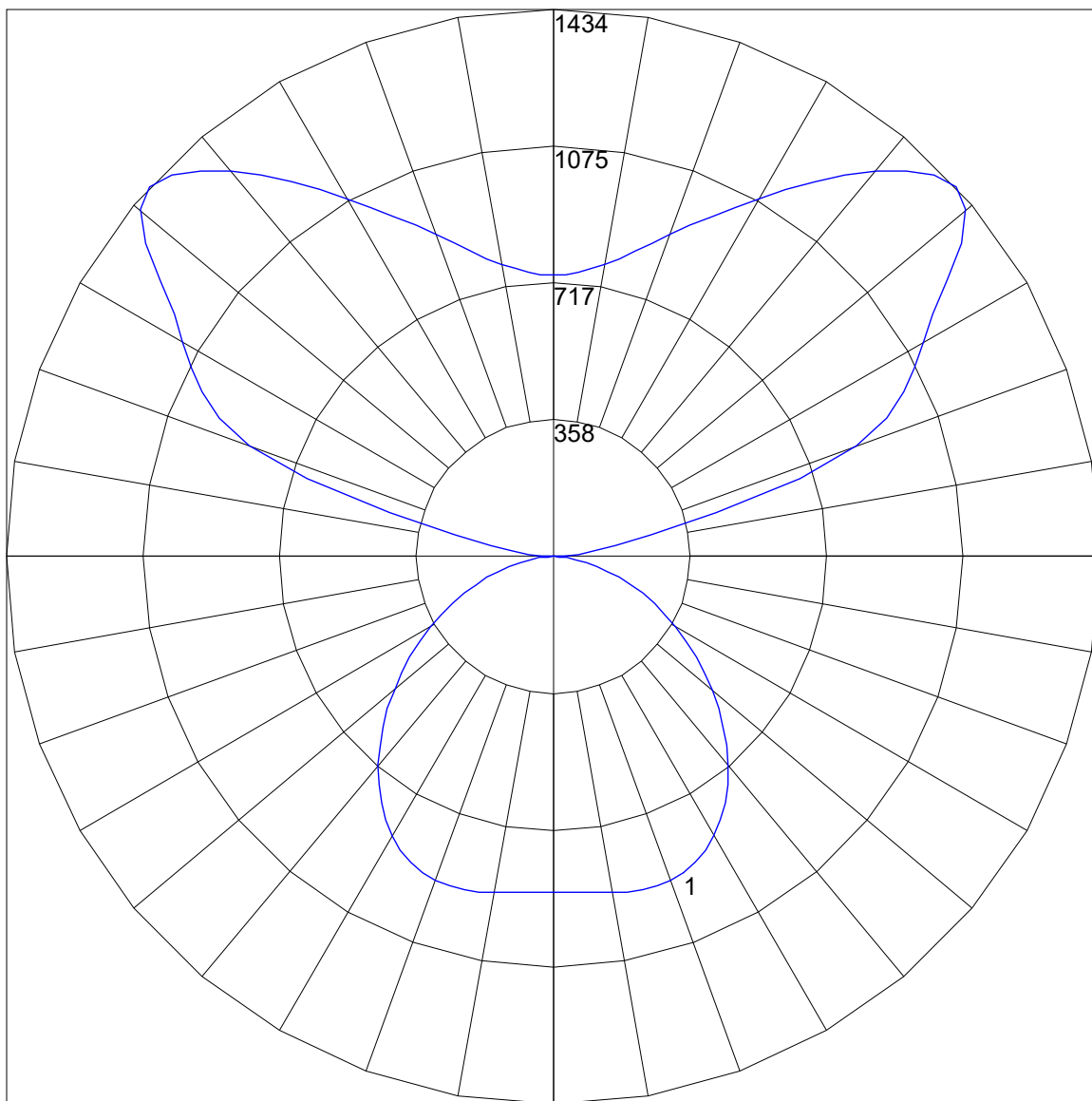
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	40	39	33
2	87	79	73	68	79	72	67	63	59	55	52	47	44	42	36	34	33	27
3	79	70	63	57	72	64	57	52	52	48	44	41	38	36	32	29	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	16	14	12
9	48	36	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

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POLAR GRAPH



Maximum Candela = 1433.66 Located At Horizontal Angle = 90, Vertical Angle = 132.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)