

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-S-V-835-F-DSO-ABL-8H-ITL85132-ITL94139.213.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL94139.213 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]06/24/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-S-V-835-F-DSO-ABL-8H

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 50.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 51.6 WATTS

[ABSOLUTE]LUMENS]4834

[OTHER]see www.finelite.com for source files ITL85132 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4835
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	50.1
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.42
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	13827	17477	17949
55	12573	16093	16093
65	11280	14298	13902
75	10031	12201	11556
85	8710	9232	8361

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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	1166.000	1166.000	1166.000	1166.000	1166.000
2.5	1164.000	1164.000	1165.000	1167.000	1167.000
5.0	1158.000	1159.000	1164.000	1169.000	1171.000
7.5	1147.000	1151.000	1160.000	1171.000	1177.000
10.0	1133.000	1138.000	1158.000	1179.000	1186.000
12.5	1116.000	1122.000	1156.000	1185.000	1193.000
15.0	1093.000	1103.000	1150.000	1187.000	1197.000
17.5	1069.000	1082.000	1142.000	1187.000	1199.000
20.0	1039.000	1058.000	1132.000	1182.000	1195.000
22.5	1007.000	1030.000	1115.000	1171.000	1186.000
25.0	971.000	1002.000	1096.000	1156.000	1170.000
27.5	935.000	972.000	1074.000	1135.000	1149.000
30.0	896.000	940.000	1046.000	1107.000	1118.000
32.5	856.000	904.000	1017.000	1075.000	1084.000
35.0	814.000	866.000	984.000	1036.000	1042.000
37.5	773.000	828.000	945.000	993.000	996.000
40.0	729.000	788.000	903.000	947.000	945.000
42.5	687.000	746.000	860.000	895.000	891.000
45.0	644.000	703.000	814.000	842.000	836.000
47.5	602.000	660.000	764.000	787.000	781.000
50.0	558.000	616.000	713.000	730.000	720.000
52.5	515.000	570.000	661.000	674.000	664.000
55.0	475.000	525.000	608.000	616.000	608.000
57.5	433.000	480.000	555.000	560.000	547.000
60.0	393.000	434.000	502.000	506.000	493.000
62.5	355.000	390.000	451.000	450.000	440.000
65.0	314.000	348.000	398.000	397.000	387.000
67.5	278.000	305.000	348.000	345.000	335.000
70.0	241.000	264.000	300.000	295.000	286.000
72.5	205.000	224.000	253.000	248.000	240.000
75.0	171.000	185.000	208.000	203.000	197.000
77.5	139.000	149.000	165.000	160.000	155.000
80.0	109.000	114.000	126.000	120.000	116.000
82.5	80.000	82.000	88.000	84.000	81.000
85.0	50.000	52.000	53.000	50.000	48.000
87.5	23.000	23.000	21.000	20.000	18.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	12.282	12.282	12.282	13.510	13.510
95.0	29.067	27.838	27.838	28.248	28.657
97.5	45.852	44.623	43.805	44.214	44.214
100.0	63.046	60.999	60.999	60.999	60.590
102.5	81.059	79.421	78.603	78.193	78.193
105.0	99.891	98.663	96.616	96.206	95.797
107.5	119.132	117.904	115.448	115.038	114.629
110.0	139.192	137.964	135.917	135.098	133.870
112.5	160.071	158.024	156.796	154.749	153.521
115.0	180.950	179.722	178.903	174.809	173.990
117.5	203.057	201.010	201.010	196.097	195.279
120.0	225.573	222.298	223.117	218.204	216.567
122.5	246.862	243.587	245.224	241.130	238.264
125.0	270.606	265.693	267.331	263.237	261.190
127.5	293.941	288.619	289.438	286.163	285.344
130.0	316.867	311.545	312.364	308.270	308.679
132.5	339.793	334.061	335.290	331.196	331.196

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-F-DSO-ABL-8H-ITL85132-ITL94139.213.IES****CANDELA TABULATION - (Cont.)**

135.0	361.900	356.578	358.215	354.531	354.531
137.5	384.416	379.094	380.732	377.457	377.047
140.0	406.933	401.611	402.839	400.792	399.564
142.5	428.221	422.489	424.127	422.080	420.442
145.0	449.918	443.778	445.415	443.778	440.912
147.5	469.979	463.838	465.885	463.428	460.563
150.0	489.220	483.079	485.535	482.670	480.213
152.5	507.642	501.502	503.958	501.502	499.045
155.0	525.246	519.105	521.971	519.515	517.058
157.5	540.394	534.662	537.937	535.481	533.024
160.0	555.131	549.809	552.675	550.219	547.763
162.5	567.823	563.319	565.366	563.729	562.091
165.0	579.285	575.192	576.420	575.601	574.373
167.5	587.883	585.426	586.245	585.426	585.017
170.0	595.661	594.433	594.842	594.023	593.614
172.5	602.211	601.802	601.802	601.393	601.393
175.0	606.715	606.715	606.715	606.715	606.305
177.5	609.171	609.580	609.580	609.580	609.171
180.0	610.808	610.808	610.808	610.808	610.808

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-F-DSO-ABL-8H-ITL85132-ITL94139.213.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	434.77	N.A.	9.00
0-30	932.63	N.A.	19.30
0-40	1528.2	N.A.	31.60
0-60	2637.24	N.A.	54.50
0-80	3215.04	N.A.	66.50
0-90	3273.48	N.A.	67.70
10-90	3162.56	N.A.	65.40
20-40	1093.43	N.A.	22.60
20-50	1690.51	N.A.	35.00
40-70	1479.46	N.A.	30.60
60-80	577.80	N.A.	12.00
70-80	207.38	N.A.	4.30
80-90	58.43	N.A.	1.20
90-110	134.78	N.A.	2.80
90-120	311.03	N.A.	6.40
90-130	548.75	N.A.	11.40
90-150	1101.93	N.A.	22.80
90-180	1561.15	N.A.	32.30
110-180	1426.37	N.A.	29.50
0-180	4834.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.92
10-20	323.86
20-30	497.85
30-40	595.58
40-50	597.08
50-60	511.96
60-70	370.42
70-80	207.38
80-90	58.43
90-100	31.55
100-110	103.23
110-120	176.25
120-130	237.72
130-140	275.34
140-150	277.84
150-160	239.40
160-170	162.30
170-180	57.52

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

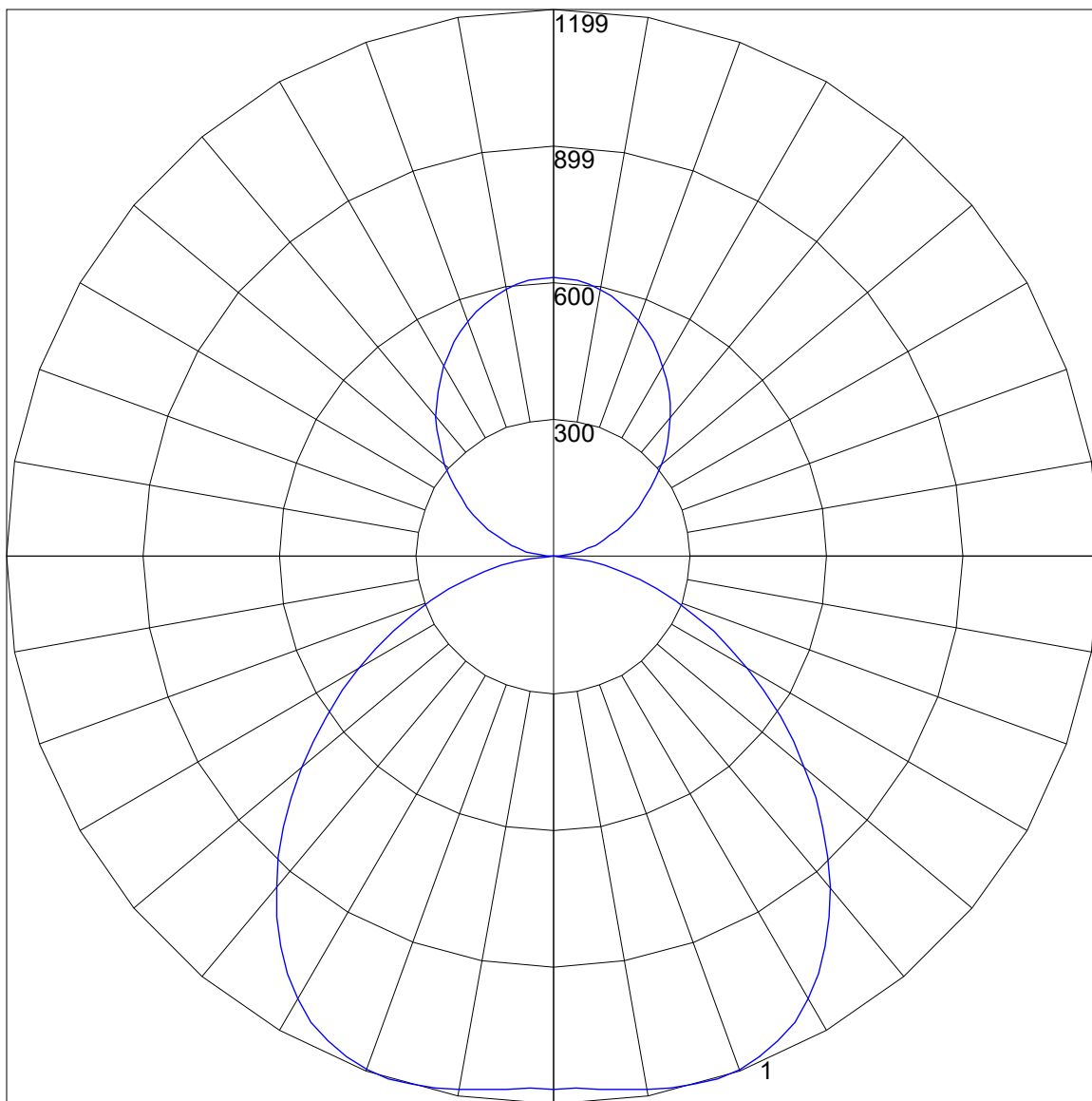
Effective Floor Cavity Reflectance 0.20

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68
1	102	97	93	90	96	92	88	85	82	79	77	73	71	69	64	63	61	57
2	93	85	79	73	87	80	75	70	72	67	64	64	60	57	56	54	51	48
3	85	75	67	61	79	71	64	58	63	58	53	56	52	49	50	47	44	40
4	77	66	58	52	73	63	55	50	56	50	46	50	45	42	45	41	38	35
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30
6	66	53	45	39	62	50	43	37	45	39	34	41	36	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23
8	56	44	36	30	53	42	34	29	38	31	27	34	29	25	30	26	23	21
9	53	40	32	27	49	38	31	26	35	28	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

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POLAR GRAPH



Maximum Candela = 1199 Located At Horizontal Angle = 90, Vertical Angle = 17.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)