

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-WSO-DSO-ITL89456-ITL94139.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.013 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]12/15/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-S-V-835-WSO-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 49.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 51.4 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]4918

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4918
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	49.9
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	7.369	12.692	12.692	12.282	12.282
95.0	19.242	33.981	33.981	28.249	27.840
97.5	32.343	55.679	68.371	49.129	46.263
100.0	45.854	72.465	135.923	79.016	69.599
102.5	60.592	88.432	187.918	139.608	110.950
105.0	74.922	105.627	217.805	227.631	187.509
107.5	89.251	122.413	236.228	307.056	286.176
110.0	103.580	137.970	252.605	353.728	357.413
112.5	117.909	153.119	271.847	384.434	399.992
115.0	132.648	167.448	294.774	406.542	429.060
117.5	147.387	181.777	319.748	427.422	451.577
120.0	162.126	196.925	340.218	449.530	474.094
122.5	175.636	209.617	354.957	480.645	497.840
125.0	188.328	221.899	363.145	514.626	531.821
127.5	200.201	233.363	368.058	537.553	569.486
130.0	210.026	243.188	370.924	546.969	596.507
132.5	219.852	252.195	371.743	543.284	605.105

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-WSO-DSO-ITL89456-ITL94139.013.IES****CANDELA TABULATION - (Cont.)**

135.0	228.450	259.565	371.333	531.821	596.507
137.5	236.228	266.525	370.105	516.264	578.494
140.0	244.007	272.666	368.058	499.068	555.567
142.5	251.376	278.397	365.192	479.826	531.002
145.0	259.155	283.720	362.326	461.403	506.028
147.5	265.706	287.814	359.051	442.570	480.645
150.0	272.256	292.317	354.957	425.784	456.899
152.5	278.397	295.593	350.044	409.817	434.791
155.0	284.129	298.049	345.131	394.260	414.321
157.5	289.451	301.324	340.627	379.931	395.897
160.0	293.955	303.371	335.305	366.011	378.702
162.5	298.049	305.009	329.983	354.138	362.736
165.0	301.324	306.647	324.661	342.675	349.225
167.5	304.190	307.875	320.567	332.849	337.352
170.0	306.647	309.103	317.701	325.070	327.936
172.5	307.875	309.922	314.425	318.519	320.976
175.0	309.512	310.331	312.378	314.425	315.244
177.5	310.331	310.331	311.150	311.150	311.560
180.0	310.741	310.741	310.741	310.741	310.741

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-WSO-DSO-ITL89456-ITL94139.013.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	434.77	N.A.	8.80
0-30	932.63	N.A.	19.00
0-40	1528.2	N.A.	31.10
0-60	2637.24	N.A.	53.60
0-80	3215.04	N.A.	65.40
0-90	3273.48	N.A.	66.60
10-90	3162.56	N.A.	64.30
20-40	1093.43	N.A.	22.20
20-50	1690.51	N.A.	34.40
40-70	1479.46	N.A.	30.10
60-80	577.80	N.A.	11.70
70-80	207.38	N.A.	4.20
80-90	58.43	N.A.	1.20
90-110	215.26	N.A.	4.40
90-120	499.27	N.A.	10.20
90-130	823.92	N.A.	16.80
90-150	1361.5	N.A.	27.70
90-180	1644.92	N.A.	33.40
110-180	1429.66	N.A.	29.10
0-180	4918.4	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	37.55
100-110	177.71
110-120	284.01
120-130	324.65
130-140	303.43
140-150	234.16
150-160	160.96
160-170	92.50
170-180	29.97

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

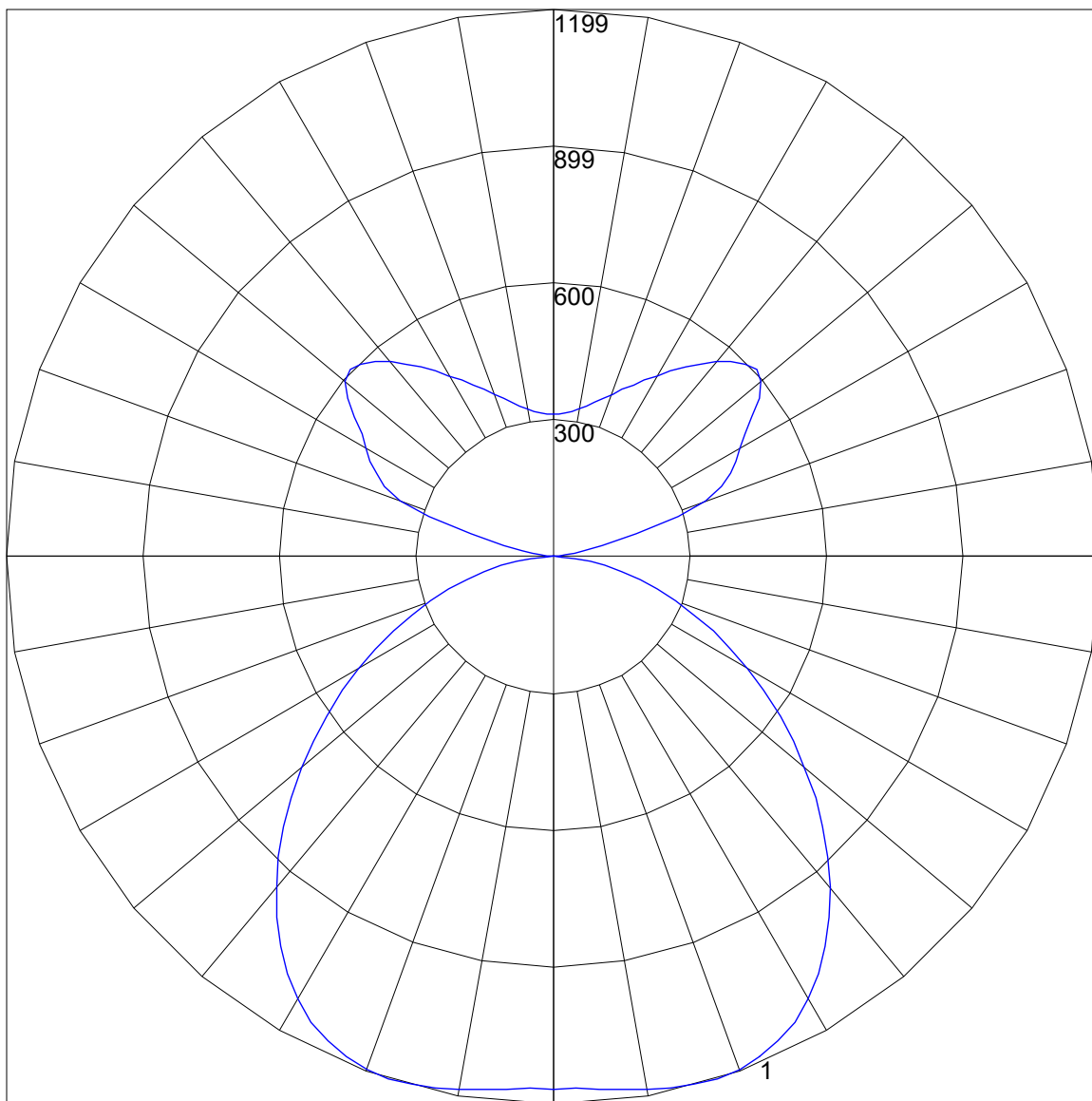
Effective Floor Cavity Reflectance 0.20

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	81	81	81	71	71	71	67
1	102	97	93	89	95	92	88	85	81	79	76	72	70	68	63	62	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	52	48	49	46	43	40
4	77	66	58	52	72	62	55	49	56	50	45	50	45	41	44	40	37	34
5	71	59	50	44	66	56	48	43	50	44	39	45	40	36	40	36	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	32	28	33	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	20	18
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.)