

# 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-V-835-F-DSO-ABL-8H-ITL85132-ITL94139.207.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL94139.207 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-H-V-835-F-DSO-ABL-8H

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 64.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 64.8 WATTS

[ABSOLUTE]LUMENS]6239

[OTHER]see [www.finelite.com](http://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](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	6240
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	64
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	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	23.336	23.336	23.336	25.669	25.669
95.0	55.228	52.895	52.895	53.673	54.451
97.5	87.121	84.787	83.232	84.009	84.009
100.0	119.791	115.902	115.902	115.902	115.124
102.5	154.017	150.906	149.350	148.572	148.572
105.0	189.799	187.465	183.576	182.798	182.020
107.5	226.359	224.025	219.358	218.580	217.802
110.0	264.474	262.140	258.251	256.695	254.362
112.5	304.145	300.256	297.922	294.033	291.699
115.0	343.816	341.483	339.927	332.148	330.593
117.5	385.821	381.932	381.932	372.597	371.042
120.0	428.604	422.381	423.936	414.602	411.491
122.5	469.053	462.830	465.941	458.163	452.717
125.0	514.169	504.834	507.946	500.167	496.278
127.5	558.507	548.395	549.951	543.728	542.172
130.0	602.067	591.955	593.511	585.732	586.510
132.5	645.628	634.738	637.071	629.293	629.293

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-DSO-ABL-8H-ITL85132-ITL94139.207.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	687.633	677.520	680.632	673.631	673.631
<b>137.5</b>	730.415	720.303	723.414	717.192	716.414
<b>140.0</b>	773.198	763.086	765.419	761.530	759.196
<b>142.5</b>	813.647	802.757	805.868	801.979	798.867
<b>145.0</b>	854.874	843.206	846.317	843.206	837.761
<b>147.5</b>	892.989	881.321	885.210	880.543	875.098
<b>150.0</b>	929.549	917.881	922.548	917.103	912.436
<b>152.5</b>	964.553	952.885	957.552	952.885	948.217
<b>155.0</b>	998.001	986.333	991.778	987.111	982.443
<b>157.5</b>	1026.782	1015.892	1022.115	1017.447	1012.780
<b>160.0</b>	1054.785	1044.673	1050.118	1045.451	1040.783
<b>162.5</b>	1078.899	1070.342	1074.232	1071.120	1068.009
<b>165.0</b>	1100.679	1092.900	1095.234	1093.678	1091.345
<b>167.5</b>	1117.014	1112.347	1113.903	1112.347	1111.569
<b>170.0</b>	1131.794	1129.460	1130.238	1128.682	1127.904
<b>172.5</b>	1144.239	1143.461	1143.461	1142.684	1142.684
<b>175.0</b>	1152.796	1152.796	1152.796	1152.796	1152.018
<b>177.5</b>	1157.463	1158.241	1158.241	1158.241	1157.463
<b>180.0</b>	1160.575	1160.575	1160.575	1160.575	1160.575

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-V-835-F-DSO-ABL-8H-ITL85132-ITL94139.207.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	434.77	N.A.	7.00
0-30	932.63	N.A.	14.90
0-40	1528.2	N.A.	24.50
0-60	2637.24	N.A.	42.30
0-80	3215.04	N.A.	51.50
0-90	3273.48	N.A.	52.50
10-90	3162.56	N.A.	50.70
20-40	1093.43	N.A.	17.50
20-50	1690.51	N.A.	27.10
40-70	1479.46	N.A.	23.70
60-80	577.80	N.A.	9.30
70-80	207.38	N.A.	3.30
80-90	58.43	N.A.	0.90
90-110	256.08	N.A.	4.10
90-120	590.97	N.A.	9.50
90-130	1042.66	N.A.	16.70
90-150	2093.73	N.A.	33.60
90-180	2966.28	N.A.	47.50
110-180	2710.2	N.A.	43.40
0-180	6239.76	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	59.94
100-110	196.14
110-120	334.89
120-130	451.69
130-140	523.16
140-150	527.91
150-160	454.88
160-170	308.38
170-180	109.30

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

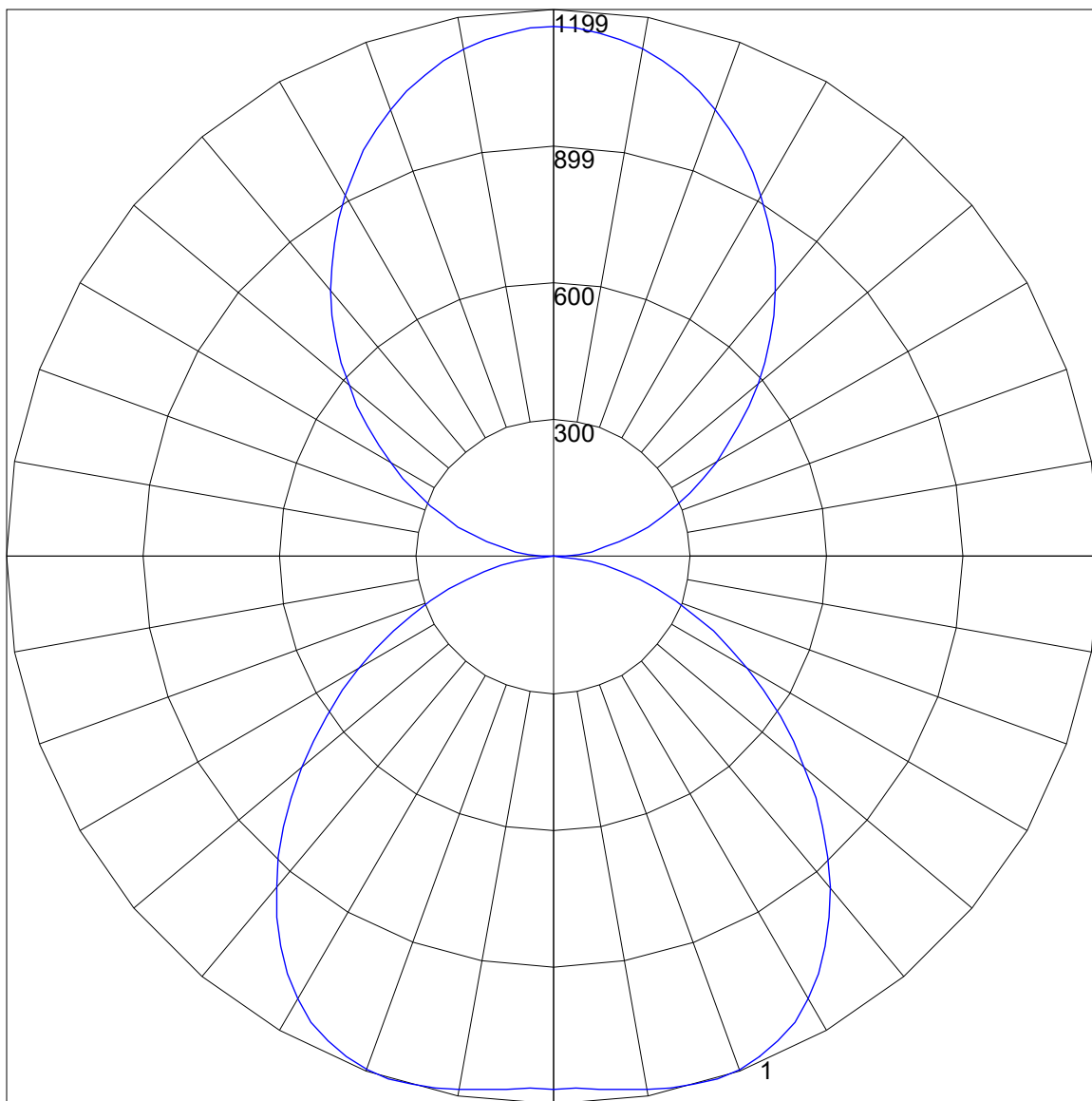
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	98	94	90	87	91	87	84	81	74	72	70	62	61	59	52	50	49	44
2	90	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	41	37
3	82	72	65	59	75	67	61	55	57	52	48	48	45	42	40	38	35	31
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	30	27
5	69	57	49	43	63	53	46	40	46	40	36	39	34	31	32	29	26	23
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	26	23	20
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21	18
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	18	16
9	50	38	31	25	47	36	29	24	31	26	22	27	22	19	23	19	17	14
10	47	35	28	23	44	33	26	22	29	23	19	25	20	17	21	18	15	13

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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.)