

# 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-B-8TW-F-DSO-ABL-8H-ITL85132-ITL94139.905.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL94139.905 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-V-B-8TW-F-DSO-ABL-8H

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 60.2 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 61.9 WATTS

[ABSOLUTE]LUMENS]5497

[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	5498
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	60.2
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	7114	8992	9235
55	6469	8280	8280
65	5804	7356	7153
75	5161	6278	5946
85	4481	4750	4302

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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	599.922	599.922	599.922	599.922	599.922
2.5	598.893	598.893	599.407	600.436	600.436
5.0	595.806	596.320	598.893	601.465	602.494
7.5	590.146	592.204	596.835	602.494	605.581
10.0	582.943	585.515	595.806	606.611	610.212
12.5	574.196	577.283	594.777	609.698	613.814
15.0	562.362	567.508	591.690	610.727	615.872
17.5	550.014	556.703	587.573	610.727	616.901
20.0	534.579	544.354	582.428	608.154	614.843
22.5	518.114	529.948	573.682	602.494	610.212
25.0	499.592	515.542	563.906	594.777	601.980
27.5	481.069	500.106	552.587	583.972	591.175
30.0	461.003	483.642	538.180	569.566	575.225
32.5	440.423	465.120	523.259	553.101	557.732
35.0	418.813	445.568	506.281	533.035	536.122
37.5	397.718	426.017	486.214	510.911	512.455
40.0	375.080	405.436	464.605	487.243	486.214
42.5	353.470	383.827	442.481	460.489	458.431
45.0	331.346	361.702	418.813	433.220	430.133
47.5	309.737	339.578	393.088	404.921	401.834
50.0	287.098	316.940	366.848	375.594	370.449
52.5	264.974	293.272	340.093	346.782	341.636
55.0	244.393	270.119	312.824	316.940	312.824
57.5	222.784	246.966	285.555	288.127	281.438
60.0	202.203	223.298	258.285	260.343	253.655
62.5	182.652	200.660	232.045	231.531	226.386
65.0	161.557	179.050	204.776	204.262	199.116
67.5	143.035	156.926	179.050	177.507	172.362
70.0	123.998	135.831	154.354	151.781	147.151
72.5	105.475	115.251	130.172	127.599	123.483
75.0	87.982	95.185	107.019	104.446	101.359
77.5	71.517	76.662	84.895	82.322	79.749
80.0	56.082	58.654	64.829	61.742	59.684
82.5	41.161	42.190	45.277	43.219	41.675
85.0	25.726	26.755	27.269	25.726	24.697
87.5	11.834	11.834	10.805	10.290	9.261
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	30.000	30.000	33.000	33.000
95.0	71.000	68.000	68.000	69.000	70.000
97.5	112.000	109.000	107.000	108.000	108.000
100.0	154.000	149.000	149.000	149.000	148.000
102.5	198.000	194.000	192.000	191.000	191.000
105.0	244.000	241.000	236.000	235.000	234.000
107.5	291.000	288.000	282.000	281.000	280.000
110.0	340.000	337.000	332.000	330.000	327.000
112.5	391.000	386.000	383.000	378.000	375.000
115.0	442.000	439.000	437.000	427.000	425.000
117.5	496.000	491.000	491.000	479.000	477.000
120.0	551.000	543.000	545.000	533.000	529.000
122.5	603.000	595.000	599.000	589.000	582.000
125.0	661.000	649.000	653.000	643.000	638.000
127.5	718.000	705.000	707.000	699.000	697.000
130.0	774.000	761.000	763.000	753.000	754.000
132.5	830.000	816.000	819.000	809.000	809.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-B-8TW-F-DSO-ABL-8H-ITL85132-ITL94139.905.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	884.000	871.000	875.000	866.000	866.000
<b>137.5</b>	939.000	926.000	930.000	922.000	921.000
<b>140.0</b>	994.000	981.000	984.000	979.000	976.000
<b>142.5</b>	1046.000	1032.000	1036.000	1031.000	1027.000
<b>145.0</b>	1099.000	1084.000	1088.000	1084.000	1077.000
<b>147.5</b>	1148.000	1133.000	1138.000	1132.000	1125.000
<b>150.0</b>	1195.000	1180.000	1186.000	1179.000	1173.000
<b>152.5</b>	1240.000	1225.000	1231.000	1225.000	1219.000
<b>155.0</b>	1283.000	1268.000	1275.000	1269.000	1263.000
<b>157.5</b>	1320.000	1306.000	1314.000	1308.000	1302.000
<b>160.0</b>	1356.000	1343.000	1350.000	1344.000	1338.000
<b>162.5</b>	1387.000	1376.000	1381.000	1377.000	1373.000
<b>165.0</b>	1415.000	1405.000	1408.000	1406.000	1403.000
<b>167.5</b>	1436.000	1430.000	1432.000	1430.000	1429.000
<b>170.0</b>	1455.000	1452.000	1453.000	1451.000	1450.000
<b>172.5</b>	1471.000	1470.000	1470.000	1469.000	1469.000
<b>175.0</b>	1482.000	1482.000	1482.000	1482.000	1481.000
<b>177.5</b>	1488.000	1489.000	1489.000	1489.000	1488.000
<b>180.0</b>	1492.000	1492.000	1492.000	1492.000	1492.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-B-8TW-F-DSO-ABL-8H-ITL85132-ITL94139.905.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	223.70	N.A.	4.10
0-30	479.85	N.A.	8.70
0-40	786.28	N.A.	14.30
0-60	1356.9	N.A.	24.70
0-80	1654.18	N.A.	30.10
0-90	1684.25	N.A.	30.60
10-90	1627.18	N.A.	29.60
20-40	562.58	N.A.	10.20
20-50	869.79	N.A.	15.80
40-70	761.20	N.A.	13.80
60-80	297.29	N.A.	5.40
70-80	106.70	N.A.	1.90
80-90	30.07	N.A.	0.50
90-110	329.21	N.A.	6.00
90-120	759.73	N.A.	13.80
90-130	1340.41	N.A.	24.40
90-150	2691.63	N.A.	49.00
90-180	3813.36	N.A.	69.40
110-180	3484.15	N.A.	63.40
0-180	5497.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	57.07
10-20	166.63
20-30	256.15
30-40	306.43
40-50	307.21
50-60	263.41
60-70	190.59
70-80	106.70
80-90	30.07
90-100	77.06
100-110	252.15
110-120	430.52
120-130	580.67
130-140	672.56
140-150	678.67
150-160	584.78
160-170	396.44
170-180	140.51

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

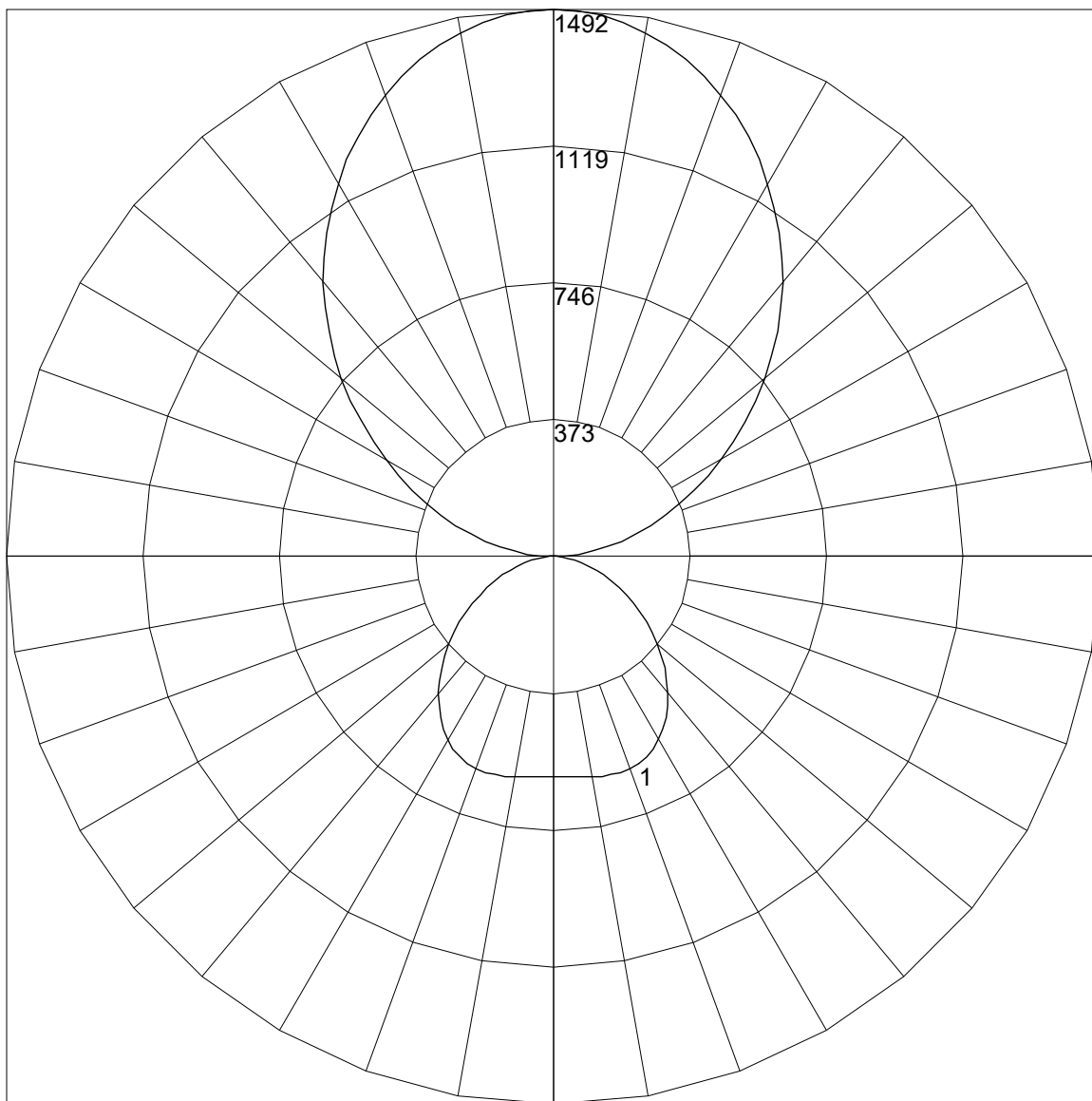
Effective Floor Cavity Reflectance 0.20

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	93	89	85	82	84	80	77	74	63	61	59	48	47	45	34	33	32	26
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	28	27	22
3	78	68	61	56	69	62	56	51	49	45	41	37	34	32	26	25	23	18
4	71	60	53	47	63	55	48	43	43	39	35	33	30	27	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	26	24	21	19	17	14
6	60	48	40	35	53	43	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	35	30	49	39	32	28	31	26	23	24	21	18	17	15	13	11
8	51	39	32	26	46	35	29	24	29	24	20	22	19	16	16	14	12	9
9	47	36	28	23	42	32	26	22	26	21	18	20	17	14	15	12	11	8
10	44	32	25	21	40	30	23	19	24	19	16	19	15	13	14	11	10	8

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POLAR GRAPH



Maximum Candela = 1492 Located At Horizontal Angle = 0, Vertical Angle = 180

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)