

# 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-B-B-8TW-F-DSO-ABL-8H-ITL85132-ITL94139.902.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL94139.902 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-B-B-8TW-F-DSO-ABL-8H

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 39.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 42.0 WATTS

[ABSOLUTE]LUMENS]3646

[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL85132. 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	3646
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	39.8
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	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	15.437	15.437	15.437	16.980	16.980
95.0	36.533	34.990	34.990	35.504	36.019
97.5	57.630	56.087	55.057	55.572	55.572
100.0	79.242	76.669	76.669	76.669	76.154
102.5	101.882	99.824	98.795	98.280	98.280
105.0	125.551	124.008	121.435	120.920	120.406
107.5	149.736	148.192	145.105	144.590	144.075
110.0	174.949	173.405	170.832	169.803	168.260
112.5	201.191	198.618	197.075	194.502	192.958
115.0	227.433	225.890	224.861	219.715	218.686
117.5	255.219	252.647	252.647	246.472	245.443
120.0	283.520	279.403	280.433	274.258	272.200
122.5	310.277	306.160	308.218	303.073	299.471
125.0	340.121	333.946	336.004	330.859	328.286
127.5	369.450	362.761	363.790	359.674	358.645
130.0	398.266	391.576	392.606	387.460	387.974
132.5	427.081	419.877	421.421	416.275	416.275

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-8TW-F-DSO-ABL-8H-ITL85132-ITL94139.902.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	454.867	448.177	450.236	445.605	445.605
<b>137.5</b>	483.167	476.478	478.536	474.420	473.905
<b>140.0</b>	511.468	504.778	506.322	503.749	502.206
<b>142.5</b>	538.225	531.021	533.079	530.506	528.448
<b>145.0</b>	565.496	557.778	559.836	557.778	554.176
<b>147.5</b>	590.709	582.991	585.564	582.476	578.874
<b>150.0</b>	614.893	607.175	610.262	606.660	603.573
<b>152.5</b>	638.048	630.330	633.417	630.330	627.243
<b>155.0</b>	660.174	652.456	656.058	652.970	649.883
<b>157.5</b>	679.213	672.009	676.125	673.038	669.951
<b>160.0</b>	697.737	691.047	694.649	691.562	688.475
<b>162.5</b>	713.688	708.028	710.601	708.542	706.484
<b>165.0</b>	728.095	722.950	724.494	723.464	721.921
<b>167.5</b>	738.901	735.814	736.843	735.814	735.299
<b>170.0</b>	748.678	747.134	747.648	746.619	746.105
<b>172.5</b>	756.910	756.396	756.396	755.881	755.881
<b>175.0</b>	762.571	762.571	762.571	762.571	762.056
<b>177.5</b>	765.658	766.172	766.172	766.172	765.658
<b>180.0</b>	767.716	767.716	767.716	767.716	767.716

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-8TW-F-DSO-ABL-8H-ITL85132-ITL94139.902.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	223.70	N.A.	6.10
0-30	479.85	N.A.	13.20
0-40	786.28	N.A.	21.60
0-60	1356.9	N.A.	37.20
0-80	1654.18	N.A.	45.40
0-90	1684.25	N.A.	46.20
10-90	1627.18	N.A.	44.60
20-40	562.58	N.A.	15.40
20-50	869.79	N.A.	23.90
40-70	761.20	N.A.	20.90
60-80	297.29	N.A.	8.20
70-80	106.70	N.A.	2.90
80-90	30.07	N.A.	0.80
90-110	169.40	N.A.	4.60
90-120	390.92	N.A.	10.70
90-130	689.71	N.A.	18.90
90-150	1384.99	N.A.	38.00
90-180	1962.19	N.A.	53.80
110-180	1792.79	N.A.	49.20
0-180	3646.43	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	39.65
100-110	129.74
110-120	221.53
120-130	298.79
130-140	346.07
140-150	349.21
150-160	300.90
160-170	203.99
170-180	72.30

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

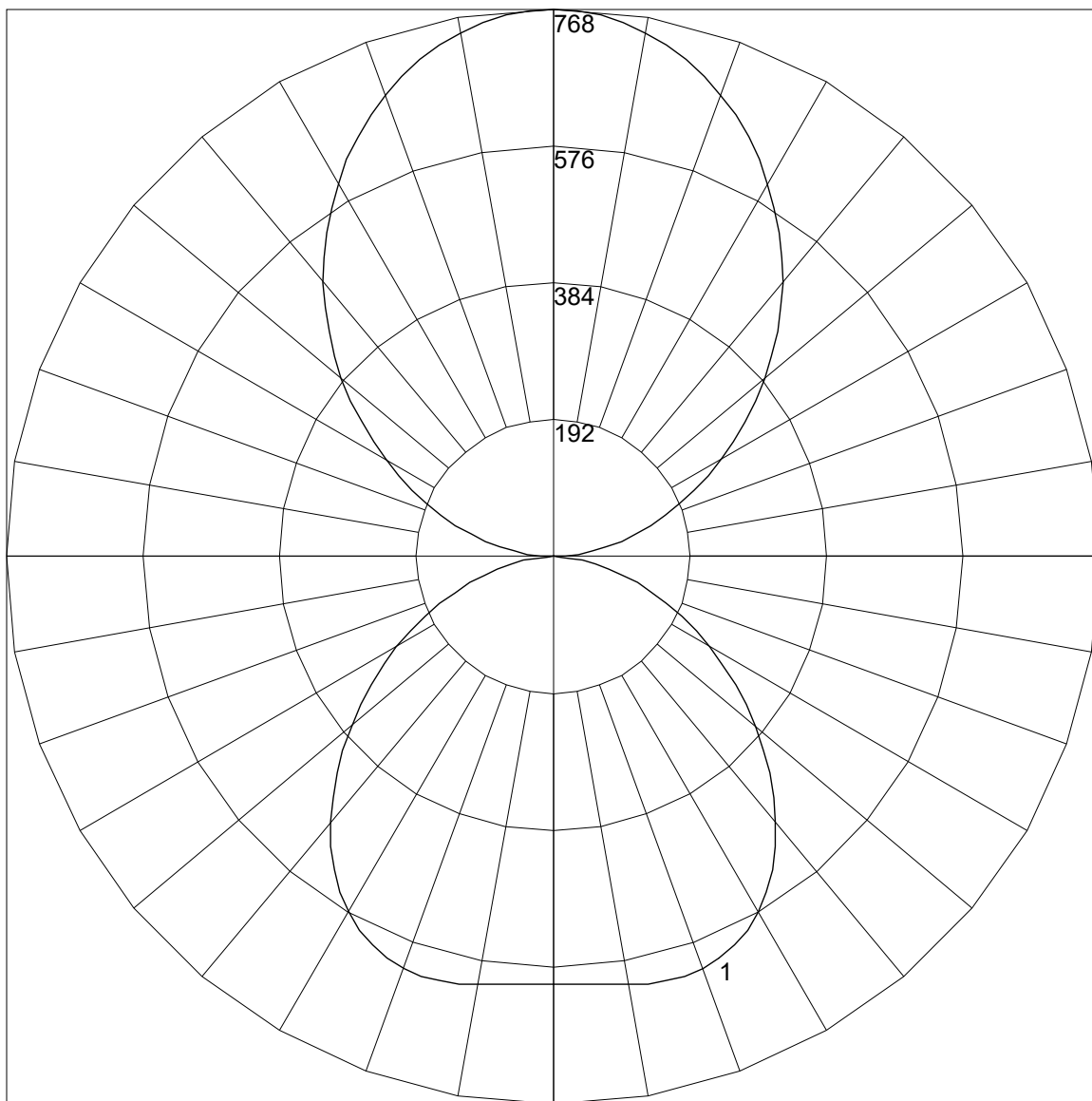
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	46	45	44	39
2	88	81	75	70	81	74	69	65	62	59	55	51	48	46	41	39	37	33
3	80	71	64	58	74	65	59	54	55	50	46	45	42	39	36	34	32	28
4	74	63	55	49	67	58	51	46	49	44	39	40	36	33	32	30	27	24
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	29	26	24	20
6	62	50	42	36	57	46	39	34	39	34	30	33	28	25	26	23	21	18
7	57	45	37	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	17	14
9	50	37	30	25	45	35	28	23	30	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	14	12

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POLAR GRAPH



Maximum Candela = 767.716 Located At Horizontal Angle = 0, Vertical Angle = 180

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