

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-H-835-F-DSO-ABL-8H-ITL85132-ITL94139.211.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL94139.211 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]6/24/2021

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 45.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 47.2 WATTS

[ABSOLUTE]LUMENS]4508

[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	4509
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	45.8
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	10756	13595	13962
55	9780	12518	12518
65	8774	11122	10814
75	7803	9491	8989
85	6775	7182	6504

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-F-DSO-ABL-8H-ITL85132-ITL94139.211.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	907.008	907.008	907.008	907.008	907.008
2.5	905.452	905.452	906.230	907.785	907.785
5.0	900.785	901.562	905.452	909.341	910.897
7.5	892.228	895.339	902.340	910.897	915.564
10.0	881.338	885.227	900.785	917.120	922.565
12.5	868.114	872.781	899.229	921.787	928.010
15.0	850.222	858.001	894.562	923.343	931.122
17.5	831.553	841.666	888.338	923.343	932.678
20.0	808.217	822.997	880.560	919.454	929.566
22.5	783.325	801.216	867.336	910.897	922.565
25.0	755.321	779.435	852.556	899.229	910.119
27.5	727.317	756.099	835.443	882.893	893.784
30.0	696.980	731.207	813.662	861.113	869.669
32.5	665.865	703.203	791.104	836.221	843.221
35.0	633.194	673.644	765.433	805.883	810.551
37.5	601.301	644.084	735.096	772.434	774.768
40.0	567.074	612.969	702.425	736.652	735.096
42.5	534.403	580.298	668.976	696.202	693.091
45.0	500.954	546.849	633.194	654.975	650.307
47.5	468.284	513.400	594.300	612.191	607.524
50.0	434.057	479.174	554.628	567.852	560.073
52.5	400.608	443.391	514.178	524.291	516.512
55.0	369.493	408.387	472.951	479.174	472.951
57.5	336.822	373.382	431.723	435.613	425.500
60.0	305.707	337.600	390.495	393.607	383.495
62.5	276.147	303.373	350.824	350.046	342.267
65.0	244.254	270.702	309.596	308.818	301.039
67.5	216.250	237.253	270.702	268.368	260.590
70.0	187.469	205.360	233.364	229.475	222.474
72.5	159.465	174.245	196.804	192.914	186.691
75.0	133.017	143.908	161.799	157.910	153.242
77.5	108.125	115.904	128.350	124.461	120.571
80.0	84.789	88.678	98.013	93.346	90.234
82.5	62.230	63.786	68.453	65.342	63.008
85.0	38.894	40.450	41.228	38.894	37.338
87.5	17.891	17.891	16.335	15.558	14.002
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

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-F-DSO-ABL-8H-ITL85132-ITL94139.211.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	338.20	N.A.	7.50
0-30	725.47	N.A.	16.10
0-40	1188.76	N.A.	26.40
0-60	2051.46	N.A.	45.50
0-80	2500.92	N.A.	55.50
0-90	2546.37	N.A.	56.50
10-90	2460.09	N.A.	54.60
20-40	850.56	N.A.	18.90
20-50	1315.01	N.A.	29.20
40-70	1150.84	N.A.	25.50
60-80	449.46	N.A.	10.00
70-80	161.32	N.A.	3.60
80-90	45.45	N.A.	1.00
90-110	169.40	N.A.	3.80
90-120	390.92	N.A.	8.70
90-130	689.71	N.A.	15.30
90-150	1384.99	N.A.	30.70
90-180	1962.19	N.A.	43.50
110-180	1792.79	N.A.	39.80
0-180	4508.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.28
10-20	251.92
20-30	387.27
30-40	463.29
40-50	464.46
50-60	398.24
60-70	288.14
70-80	161.32
80-90	45.45
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

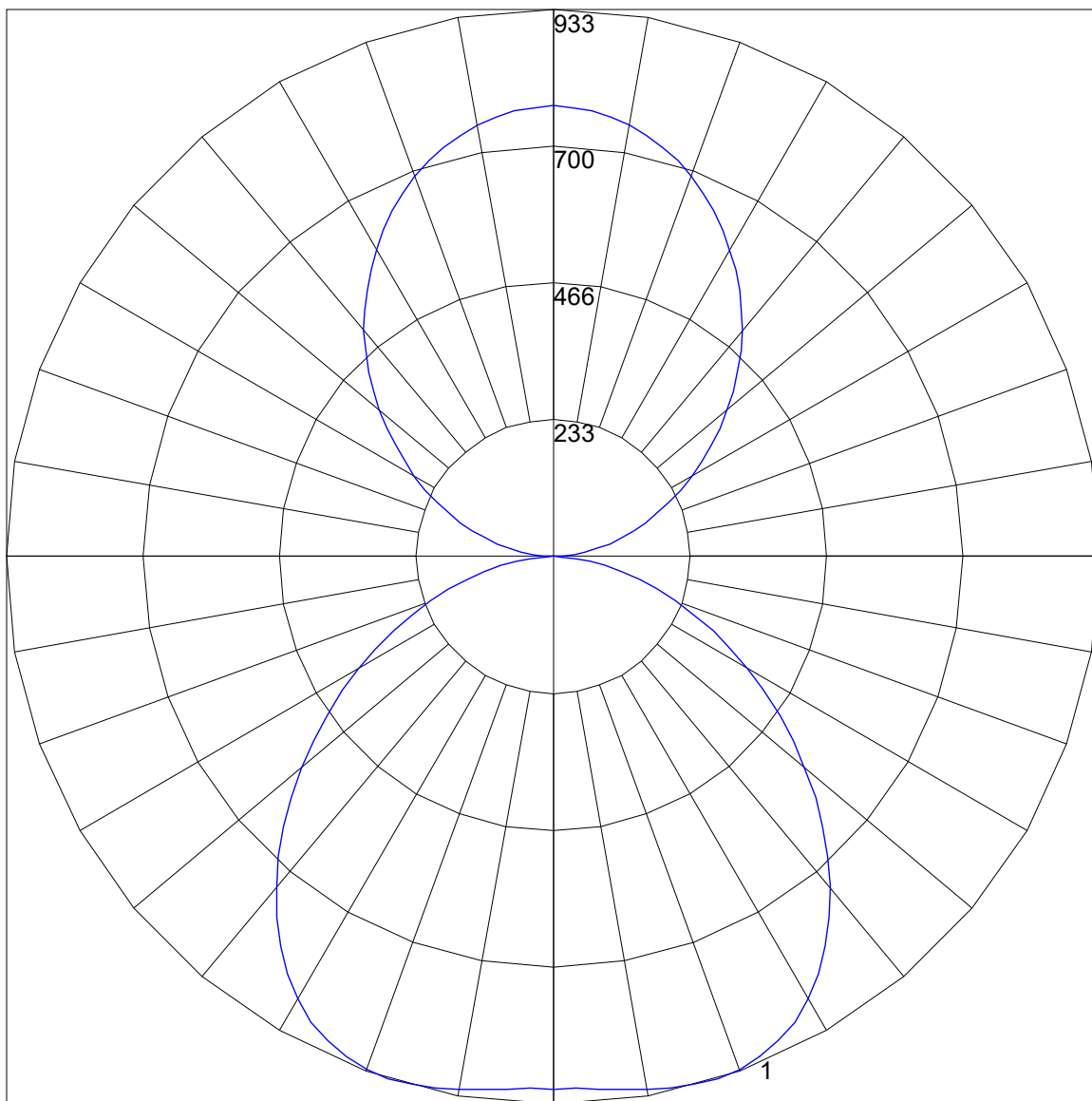
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	87	92	88	85	82	76	74	71	65	63	62	55	54	52	48
2	90	83	77	71	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	82	73	65	59	76	68	61	56	59	54	50	51	47	44	43	40	38	34
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22
7	59	46	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

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POLAR GRAPH



Maximum Candela = 932.678 Located At Horizontal Angle = 90, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)