

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-H-835-F-DSO-ITL85132-ITL94139.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL94139.014 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]12/17/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-S-H-835-F-DSO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 41.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 43.5 WATTS

[ABSOLUTE]LUMENS]4107

[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	4108
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	41.8
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	10756	13595	13962
55	9780	12518	12518
65	8774	11122	10814
75	7803	9491	8989
85	6775	7182	6504

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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	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	12.282	12.282	12.282	13.510	13.510
95.0	29.067	27.838	27.838	28.248	28.657
97.5	45.852	44.623	43.805	44.214	44.214
100.0	63.046	60.999	60.999	60.999	60.590
102.5	81.059	79.421	78.603	78.193	78.193
105.0	99.891	98.663	96.616	96.206	95.797
107.5	119.132	117.904	115.448	115.038	114.629
110.0	139.192	137.964	135.917	135.098	133.870
112.5	160.071	158.024	156.796	154.749	153.521
115.0	180.950	179.722	178.903	174.809	173.990
117.5	203.057	201.010	201.010	196.097	195.279
120.0	225.573	222.298	223.117	218.204	216.567
122.5	246.862	243.587	245.224	241.130	238.264
125.0	270.606	265.693	267.331	263.237	261.190
127.5	293.941	288.619	289.438	286.163	285.344
130.0	316.867	311.545	312.364	308.270	308.679
132.5	339.793	334.061	335.290	331.196	331.196

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-H-835-F-DSO-ITL85132-ITL94139.014.IES****CANDELA TABULATION - (Cont.)**

135.0	361.900	356.578	358.215	354.531	354.531
137.5	384.416	379.094	380.732	377.457	377.047
140.0	406.933	401.611	402.839	400.792	399.564
142.5	428.221	422.489	424.127	422.080	420.442
145.0	449.918	443.778	445.415	443.778	440.912
147.5	469.979	463.838	465.885	463.428	460.563
150.0	489.220	483.079	485.535	482.670	480.213
152.5	507.642	501.502	503.958	501.502	499.045
155.0	525.246	519.105	521.971	519.515	517.058
157.5	540.394	534.662	537.937	535.481	533.024
160.0	555.131	549.809	552.675	550.219	547.763
162.5	567.823	563.319	565.366	563.729	562.091
165.0	579.285	575.192	576.420	575.601	574.373
167.5	587.883	585.426	586.245	585.426	585.017
170.0	595.661	594.433	594.842	594.023	593.614
172.5	602.211	601.802	601.802	601.393	601.393
175.0	606.715	606.715	606.715	606.715	606.305
177.5	609.171	609.580	609.580	609.580	609.171
180.0	610.808	610.808	610.808	610.808	610.808

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Zone	Lumens	%Lamp	%Fixt
0-20	338.20	N.A.	8.20
0-30	725.47	N.A.	17.70
0-40	1188.76	N.A.	28.90
0-60	2051.46	N.A.	49.90
0-80	2500.92	N.A.	60.90
0-90	2546.37	N.A.	62.00
10-90	2460.09	N.A.	59.90
20-40	850.56	N.A.	20.70
20-50	1315.01	N.A.	32.00
40-70	1150.84	N.A.	28.00
60-80	449.46	N.A.	10.90
70-80	161.32	N.A.	3.90
80-90	45.45	N.A.	1.10
90-110	134.78	N.A.	3.30
90-120	311.03	N.A.	7.60
90-130	548.75	N.A.	13.40
90-150	1101.93	N.A.	26.80
90-180	1561.15	N.A.	38.00
110-180	1426.37	N.A.	34.70
0-180	4107.52	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	31.55
100-110	103.23
110-120	176.25
120-130	237.72
130-140	275.34
140-150	277.84
150-160	239.40
160-170	162.30
170-180	57.52

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

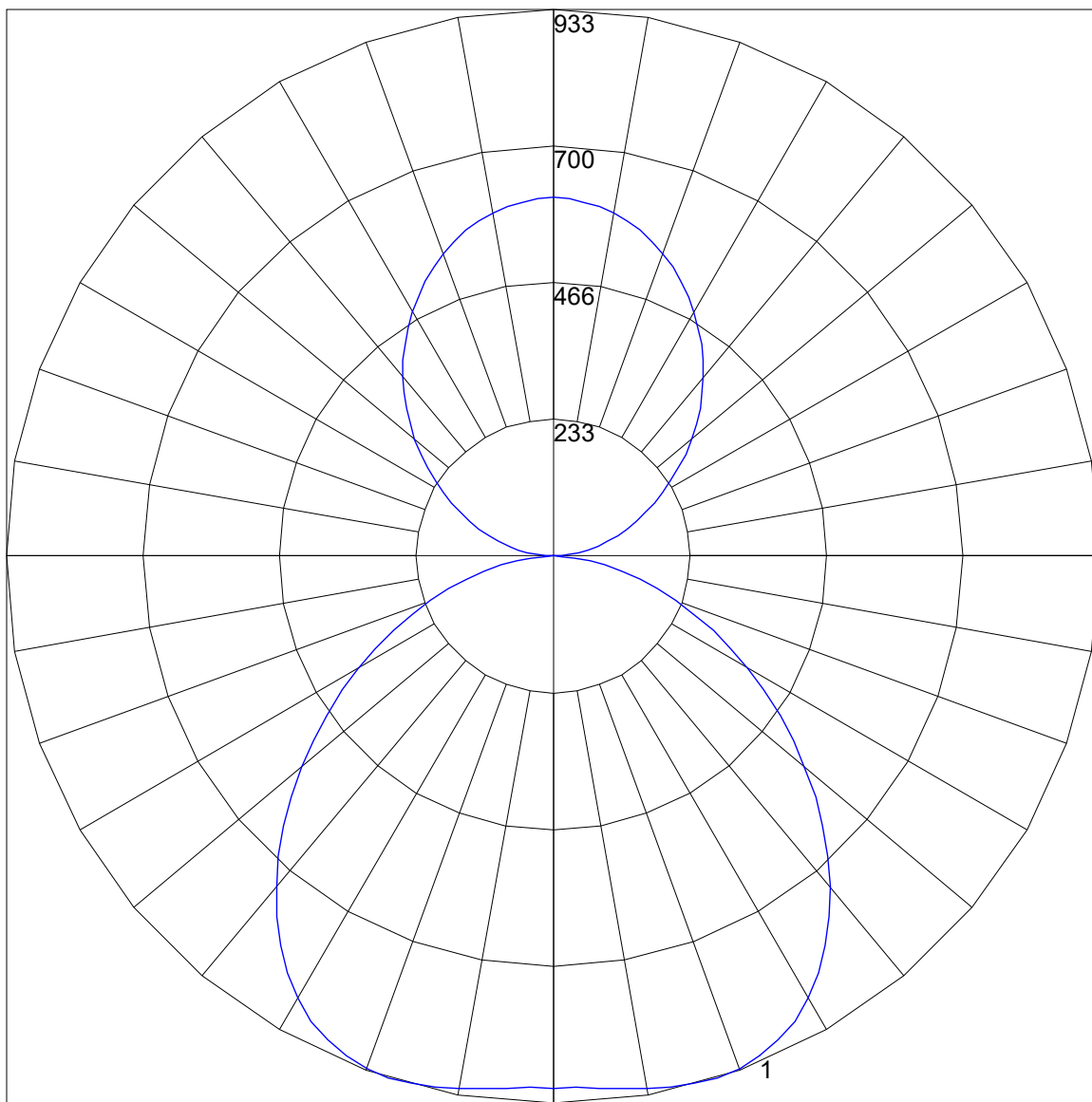
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	100	96	92	89	94	90	87	84	79	76	74	69	67	65	59	58	57	52
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	52	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52	53	49	46	46	43	41	37
4	76	65	57	51	71	61	54	49	54	48	44	48	43	39	41	38	35	32
5	70	58	50	44	65	55	47	42	49	43	38	43	38	34	37	33	30	27
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

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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.)