

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-B-835-F-DSO-ITL85132-ITL94139.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL94139.015 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-B-835-F-DSO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 32.2 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 34.5 WATTS

[ABSOLUTE]LUMENS]3245

[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	3245
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	32.2
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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	<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	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-B-835-F-DSO-ITL85132-ITL94139.015.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	223.70	N.A.	6.90
0-30	479.85	N.A.	14.80
0-40	786.28	N.A.	24.20
0-60	1356.9	N.A.	41.80
0-80	1654.18	N.A.	51.00
0-90	1684.25	N.A.	51.90
10-90	1627.18	N.A.	50.10
20-40	562.58	N.A.	17.30
20-50	869.79	N.A.	26.80
40-70	761.20	N.A.	23.50
60-80	297.29	N.A.	9.20
70-80	106.70	N.A.	3.30
80-90	30.07	N.A.	0.90
90-110	134.78	N.A.	4.20
90-120	311.03	N.A.	9.60
90-130	548.75	N.A.	16.90
90-150	1101.93	N.A.	34.00
90-180	1561.15	N.A.	48.10
110-180	1426.37	N.A.	44.00
0-180	3245.4	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	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

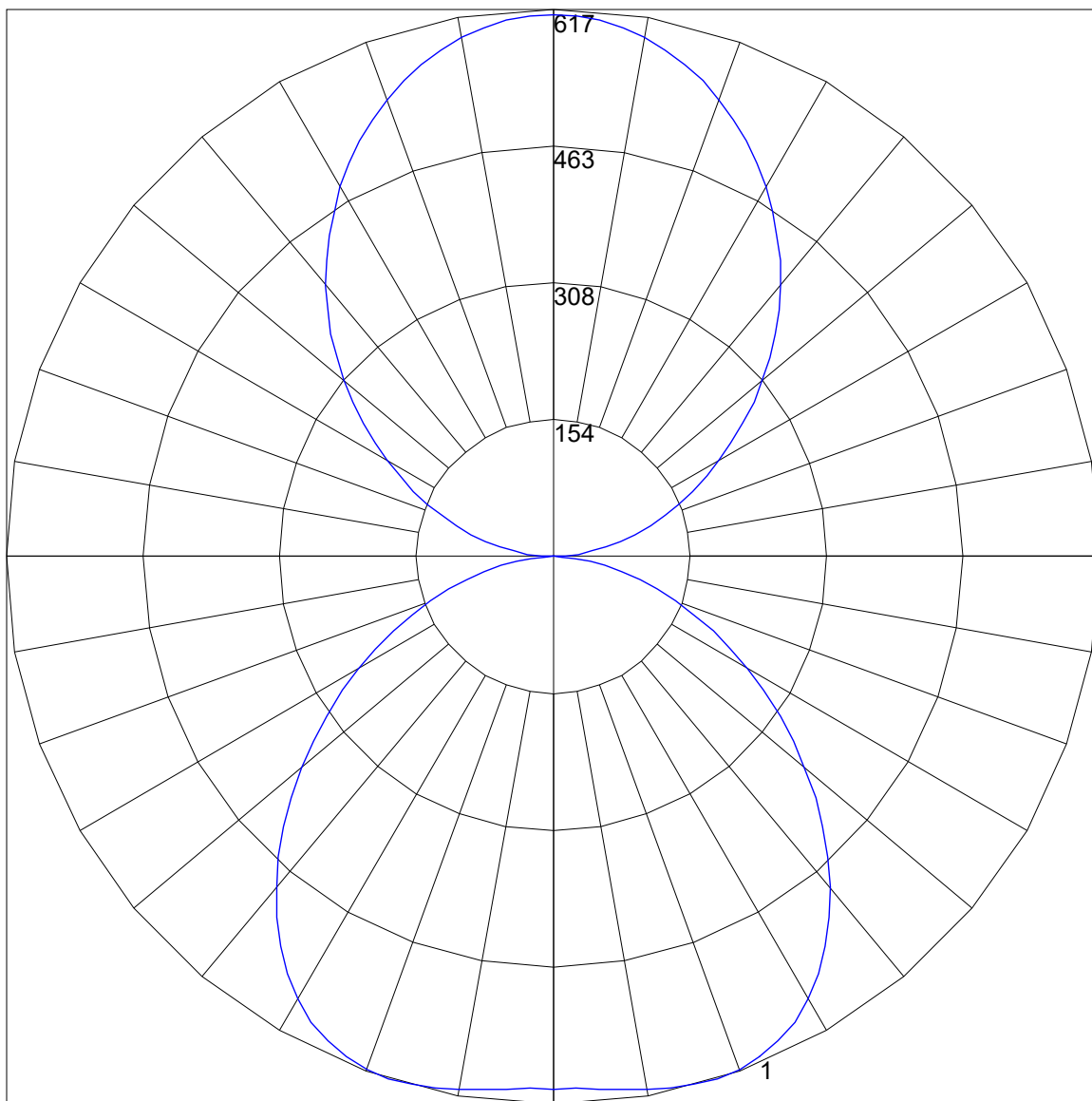
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52
1	98	94	90	86	91	87	84	81	74	72	69	62	60	59	51	50	49	44
2	89	82	76	71	82	76	71	66	65	61	57	55	52	49	45	43	41	37
3	82	72	65	59	75	67	60	55	57	52	48	48	45	41	40	37	35	31
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	36	33	30	27
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	29	26	23
6	63	51	43	37	58	47	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	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	30	25	47	36	29	24	31	25	22	27	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	25	20	17	21	17	15	13

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POLAR GRAPH



Maximum Candela = 616.901 Located At Horizontal Angle = 90, Vertical Angle = 17.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)