

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-S-835-F-DSO-ITL85132-ITL94139.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL94139.012 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-B-S-835-F-DSO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 32.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 34.7 WATTS

[ABSOLUTE]LUMENS]3302

[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	3302
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	32.4
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	5661	7155	7349
55	5147	6589	6589
65	4618	5854	5692
75	4107	4995	4731
85	3566	3780	3423

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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	477.372	477.372	477.372	477.372	477.372
2.5	476.554	476.554	476.963	477.782	477.782
5.0	474.097	474.507	476.554	478.601	479.420
7.5	469.594	471.231	474.916	479.420	481.876
10.0	463.862	465.909	474.097	482.695	485.561
12.5	456.902	459.358	473.278	485.151	488.426
15.0	447.485	451.580	470.822	485.970	490.064
17.5	437.660	442.982	467.547	485.970	490.883
20.0	425.377	433.156	463.452	483.923	489.245
22.5	412.276	421.693	456.493	479.420	485.561
25.0	397.537	410.229	448.714	473.278	479.010
27.5	382.799	397.947	439.707	464.681	470.412
30.0	366.832	384.846	428.243	453.217	457.721
32.5	350.455	370.107	416.370	440.116	443.801
35.0	333.260	354.549	402.860	424.149	426.606
37.5	316.474	338.992	386.893	406.544	407.773
40.0	298.460	322.615	369.697	387.712	386.893
42.5	281.265	305.420	352.093	366.422	364.785
45.0	263.660	287.815	333.260	344.724	342.267
47.5	246.465	270.211	312.789	322.206	319.750
50.0	228.451	252.197	291.909	298.870	294.775
52.5	210.846	233.364	270.620	275.942	271.848
55.0	194.470	214.940	248.922	252.197	248.922
57.5	177.275	196.517	227.223	229.270	223.947
60.0	160.898	177.684	205.524	207.162	201.839
62.5	145.341	159.670	184.644	184.235	180.141
65.0	128.555	142.475	162.945	162.536	158.442
67.5	113.816	124.870	142.475	141.247	137.153
70.0	98.668	108.084	122.823	120.776	117.091
72.5	83.929	91.708	103.581	101.534	98.258
75.0	70.009	75.741	85.157	83.110	80.654
77.5	56.908	61.002	67.553	65.506	63.459
80.0	44.626	46.673	51.586	49.129	47.492
82.5	32.753	33.572	36.028	34.391	33.162
85.0	20.471	21.289	21.699	20.471	19.652
87.5	9.416	9.416	8.598	8.188	7.369
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-S-835-F-DSO-ITL85132-ITL94139.012.IES****CANDELA TABULATION - (Cont.)**

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-S-835-F-DSO-ITL85132-ITL94139.012.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	178.00	N.A.	5.40
0-30	381.83	N.A.	11.60
0-40	625.66	N.A.	18.90
0-60	1079.72	N.A.	32.70
0-80	1316.27	N.A.	39.90
0-90	1340.2	N.A.	40.60
10-90	1294.79	N.A.	39.20
20-40	447.66	N.A.	13.60
20-50	692.11	N.A.	21.00
40-70	605.71	N.A.	18.30
60-80	236.56	N.A.	7.20
70-80	84.90	N.A.	2.60
80-90	23.92	N.A.	0.70
90-110	169.40	N.A.	5.10
90-120	390.92	N.A.	11.80
90-130	689.71	N.A.	20.90
90-150	1384.99	N.A.	41.90
90-180	1962.19	N.A.	59.40
110-180	1792.79	N.A.	54.30
0-180	3302.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.41
10-20	132.59
20-30	203.83
30-40	243.84
40-50	244.45
50-60	209.60
60-70	151.65
70-80	84.90
80-90	23.92
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

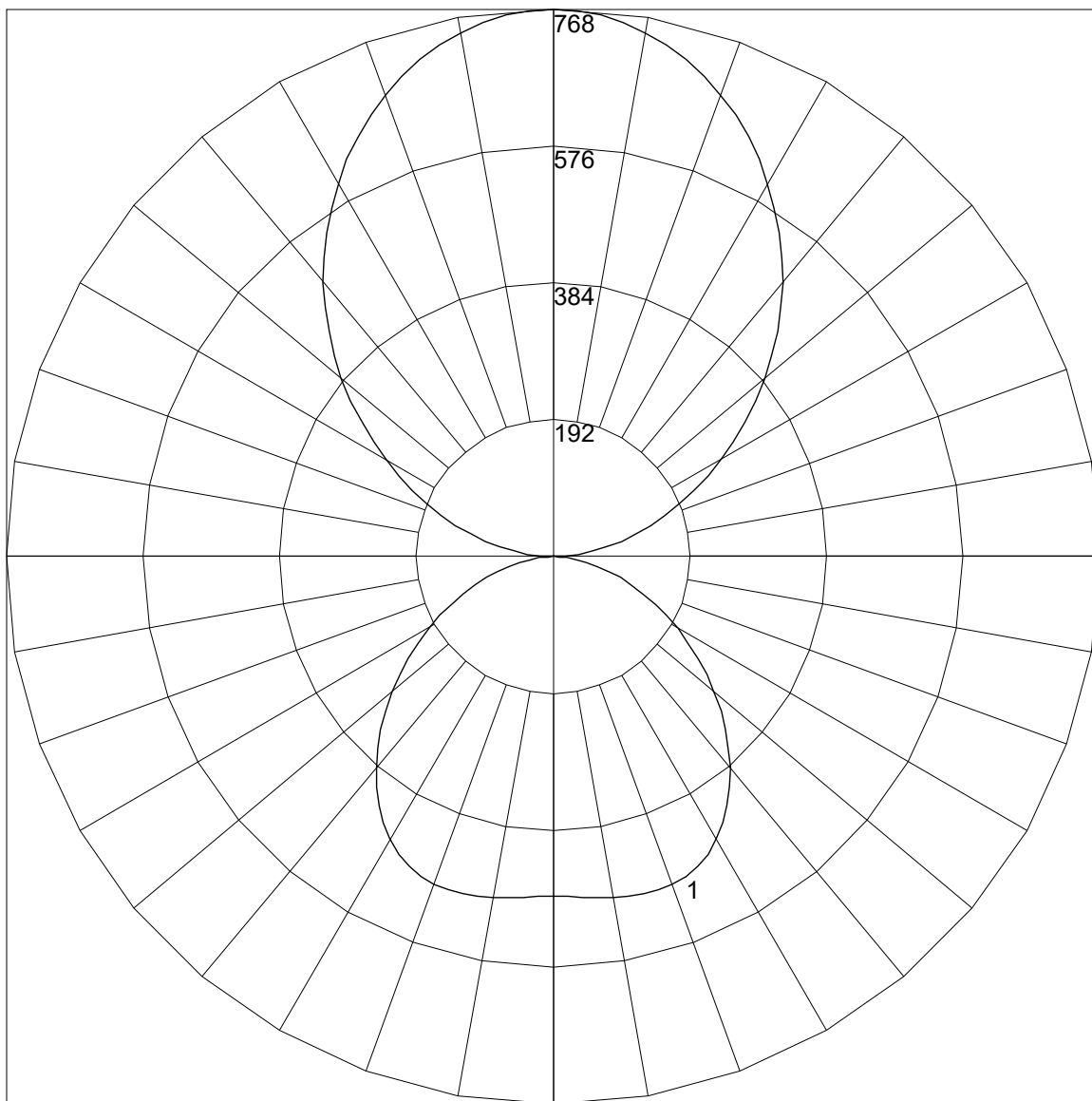
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	33	31	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	21	18
6	61	49	41	36	56	45	38	33	38	32	28	30	27	24	24	21	19	16
7	57	44	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

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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)