

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-4-C-D-P-3FT-H-835-ITL91221.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91221.007 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]12/22/18

[ISSUEDATE]03/01/19

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-C-D-P-3ft-H-835

[_INPUT_ELECTRICAL]120.0 VOLTS, 18.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 18.9 WATTS

[_ABSOLUTE]LUMENS]1869

[OTHER]see www.finelite.com for source file ITL91221. 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	1868
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	18.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.81 ft
Luminous Width (90-270)	2.81 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2810	2854	2911
55	2622	2671	2725
65	2409	2454	2498
75	2130	2178	2202
85	1822	1822	1822

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	711.372	711.372	711.372	711.372	711.372	711.372	711.372	711.372	711.372
2.5	710.714	710.714	710.714	710.714	710.714	710.714	710.714	710.714	711.372
5.0	707.427	707.427	707.427	707.427	707.427	708.084	708.084	708.084	708.084
7.5	701.510	702.167	702.167	702.167	702.167	702.825	702.825	702.825	702.825
10.0	693.620	693.620	694.935	695.593	696.250	696.250	696.250	695.593	695.593
12.5	682.443	683.101	685.073	686.388	687.703	689.018	687.703	687.703	687.046
15.0	669.952	671.267	673.896	674.554	677.841	677.841	675.869	674.554	675.869
17.5	654.830	656.803	659.432	662.720	665.349	665.349	662.720	660.747	663.377
20.0	639.051	641.023	644.311	648.256	651.543	650.228	646.941	644.968	647.598
22.5	621.300	623.272	627.217	631.162	635.106	633.791	628.532	628.532	629.189
25.0	603.548	604.863	608.808	614.068	618.012	614.725	610.123	608.150	610.780
27.5	582.510	583.824	589.084	594.344	596.974	595.001	590.399	588.427	589.742
30.0	562.786	563.443	567.388	574.620	575.935	574.620	570.018	566.730	566.730
32.5	540.432	541.747	547.007	551.609	555.554	553.581	547.664	545.034	543.719
35.0	516.106	518.736	523.338	529.913	531.885	530.570	524.653	523.338	520.708
37.5	493.752	495.067	500.985	506.244	509.531	507.559	500.985	497.697	496.382
40.0	468.769	471.399	475.344	480.603	484.548	483.233	478.631	474.686	472.714
42.5	445.100	447.073	452.332	456.277	460.879	458.907	452.332	449.045	447.073
45.0	419.459	422.089	426.034	430.636	434.581	433.266	426.692	425.377	422.747
47.5	395.133	397.106	401.708	405.653	409.598	407.625	401.708	397.106	396.448
50.0	368.835	370.807	374.752	379.354	382.642	381.327	376.067	372.122	371.465
52.5	344.509	345.824	349.769	354.371	356.343	354.371	349.769	345.166	345.166
55.0	317.553	319.526	323.470	326.758	330.045	328.073	324.785	320.183	321.498
57.5	293.227	294.542	298.487	301.774	303.089	301.774	297.829	293.227	292.570
60.0	266.271	267.586	271.531	274.161	276.791	275.476	272.188	268.244	267.586
62.5	241.945	243.260	246.547	249.177	249.835	249.177	245.233	241.288	240.630
65.0	214.989	216.304	218.934	221.564	222.879	222.879	218.934	216.304	216.304
67.5	190.663	191.978	193.951	196.581	197.895	196.581	193.293	190.006	189.348
70.0	164.365	165.680	167.652	169.625	170.940	170.940	167.652	166.337	165.680
72.5	141.354	141.354	143.984	145.956	145.956	144.641	142.669	140.696	140.039
75.0	116.370	117.685	119.000	120.315	120.315	120.315	119.658	117.028	117.685
77.5	94.674	94.674	95.989	96.647	97.962	96.647	95.332	94.017	94.017
80.0	72.321	72.978	72.978	74.293	74.293	74.293	73.636	72.978	72.978
82.5	52.597	52.597	53.254	53.254	53.912	53.254	53.254	52.597	52.597
85.0	33.530	33.530	33.530	34.188	33.530	34.188	34.188	34.188	34.845
87.5	17.094	17.094	17.094	16.436	16.436	17.094	17.094	17.751	17.751
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	257.33	N.A.	13.80
0-30	538.45	N.A.	28.80
0-40	866.86	N.A.	46.40
0-60	1486.42	N.A.	79.60
0-80	1829.98	N.A.	97.90
0-90	1868.3	N.A.	100.00
10-90	1801.15	N.A.	96.40
20-40	609.53	N.A.	32.60
20-50	939.34	N.A.	50.30
40-70	836.90	N.A.	44.80
60-80	343.56	N.A.	18.40
70-80	126.22	N.A.	6.80
80-90	38.32	N.A.	2.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1868.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.16
10-20	190.18
20-30	281.12
30-40	328.41
40-50	329.81
50-60	289.74
60-70	217.35
70-80	126.22
80-90	38.32
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

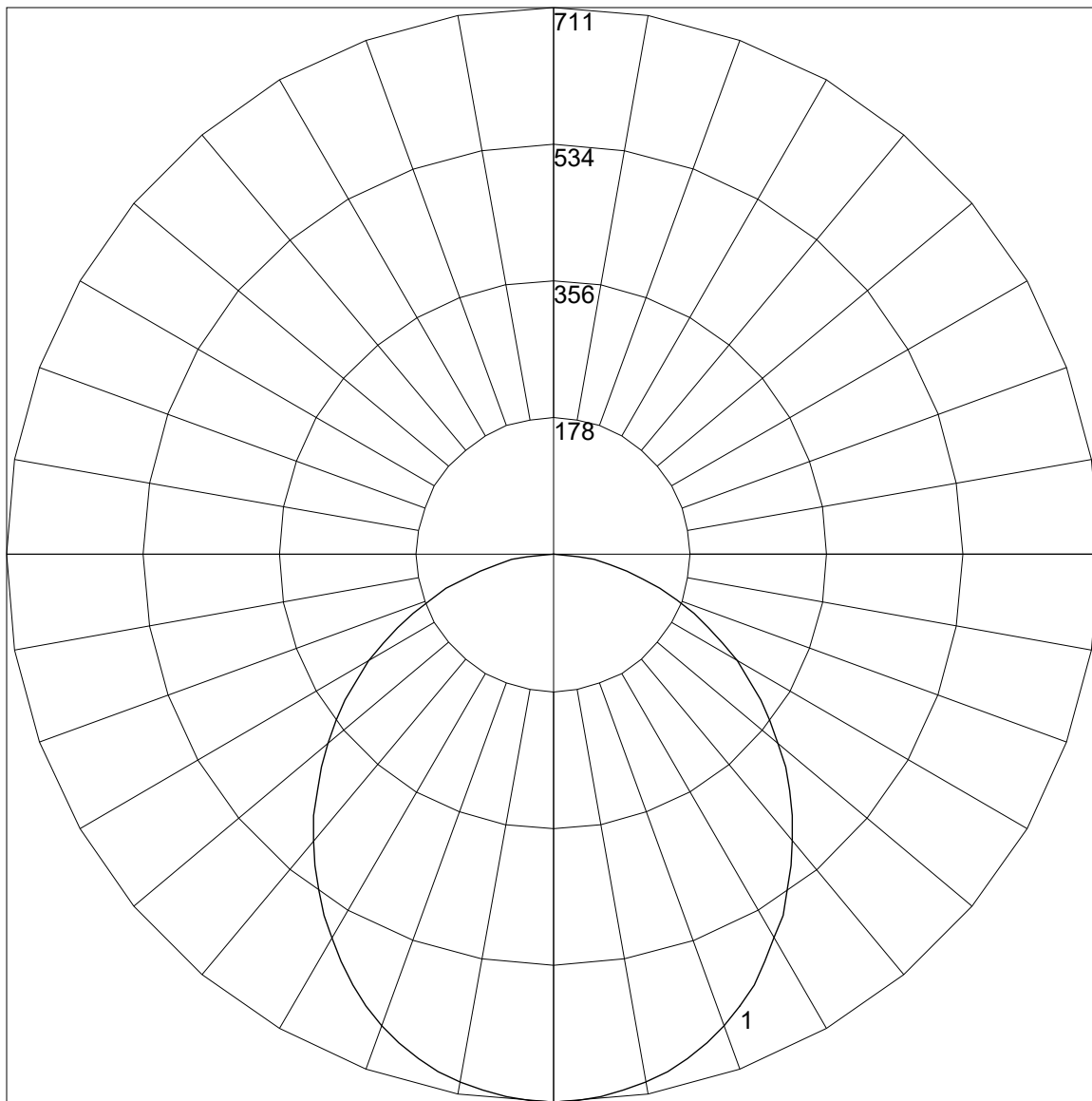
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 711.372 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)