

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-S-835-ITL91221.005.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91221.005 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]12/22/18
[ISSUE DATE]03/01/19
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-4-C-D-P-3ft-S-835
[INPUT_ELECTRICAL]120.0 VOLTS, 9.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 10.4 WATTS
[ABSOLUTE LUMENS]984
[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	983
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	9.4
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	1479	1502	1532
55	1380	1406	1435
65	1268	1291	1315
75	1121	1146	1159
85	959	959	959

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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	374.436	374.436	374.436	374.436	374.436	374.436	374.436	374.436	374.436
2.5	374.090	374.090	374.090	374.090	374.090	374.090	374.090	374.090	374.436
5.0	372.359	372.359	372.359	372.359	372.359	372.706	372.706	372.706	372.706
7.5	369.245	369.591	369.591	369.591	369.591	369.937	369.937	369.937	369.937
10.0	365.092	365.092	365.784	366.130	366.476	366.476	366.476	366.130	366.130
12.5	359.209	359.555	360.593	361.286	361.978	362.670	361.978	361.978	361.632
15.0	352.634	353.326	354.710	355.057	356.787	356.787	355.749	355.057	355.749
17.5	344.675	345.713	347.097	348.827	350.212	350.212	348.827	347.789	349.174
20.0	336.369	337.408	339.138	341.214	342.944	342.252	340.522	339.484	340.868
22.5	327.026	328.064	330.140	332.217	334.293	333.601	330.832	330.832	331.178
25.0	317.682	318.374	320.451	323.219	325.295	323.565	321.143	320.105	321.489
27.5	306.608	307.300	310.069	312.837	314.222	313.183	310.761	309.723	310.415
30.0	296.226	296.573	298.649	302.456	303.148	302.456	300.033	298.303	298.303
32.5	284.460	285.153	287.921	290.343	292.420	291.382	288.267	286.883	286.191
35.0	271.656	273.041	275.463	278.924	279.962	279.270	276.155	275.463	274.079
37.5	259.890	260.582	263.697	266.465	268.196	267.158	263.697	261.967	261.275
40.0	246.740	248.124	250.201	252.969	255.045	254.353	251.931	249.855	248.816
42.5	234.282	235.320	238.089	240.165	242.587	241.549	238.089	236.358	235.320
45.0	220.786	222.170	224.246	226.669	228.745	228.053	224.592	223.900	222.516
47.5	207.981	209.020	211.442	213.518	215.595	214.557	211.442	209.020	208.674
50.0	194.139	195.177	197.254	199.676	201.406	200.714	197.946	195.869	195.523
52.5	181.335	182.027	184.103	186.526	187.564	186.526	184.103	181.681	181.681
55.0	167.146	168.185	170.261	171.991	173.722	172.683	170.953	168.531	169.223
57.5	154.342	155.034	157.111	158.841	159.533	158.841	156.765	154.342	153.996
60.0	140.154	140.846	142.922	144.307	145.691	144.999	143.268	141.192	140.846
62.5	127.350	128.042	129.772	131.156	131.502	131.156	129.080	127.004	126.658
65.0	113.161	113.853	115.238	116.622	117.314	117.314	115.238	113.853	113.853
67.5	100.357	101.049	102.087	103.472	104.164	103.472	101.741	100.011	99.665
70.0	86.515	87.207	88.245	89.283	89.975	89.975	88.245	87.553	87.207
72.5	74.403	74.403	75.787	76.825	76.825	76.133	75.095	74.057	73.711
75.0	61.252	61.945	62.637	63.329	63.329	63.329	62.983	61.599	61.945
77.5	49.832	49.832	50.525	50.871	51.563	50.871	50.179	49.486	49.486
80.0	38.066	38.413	38.413	39.105	39.105	39.105	38.759	38.413	38.413
82.5	27.685	27.685	28.031	28.031	28.377	28.031	28.031	27.685	27.685
85.0	17.649	17.649	17.649	17.995	17.649	17.995	17.995	17.995	18.341
87.5	8.998	8.998	8.998	8.651	8.651	8.998	8.998	9.344	9.344
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	135.45	N.A.	13.80
0-30	283.42	N.A.	28.80
0-40	456.28	N.A.	46.40
0-60	782.39	N.A.	79.60
0-80	963.23	N.A.	97.90
0-90	983.40	N.A.	100.00
10-90	948.05	N.A.	96.40
20-40	320.83	N.A.	32.60
20-50	494.43	N.A.	50.30
40-70	440.51	N.A.	44.80
60-80	180.84	N.A.	18.40
70-80	66.43	N.A.	6.80
80-90	20.17	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	983.40	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.35
10-20	100.10
20-30	147.97
30-40	172.86
40-50	173.60
50-60	152.51
60-70	114.40
70-80	66.43
80-90	20.17
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

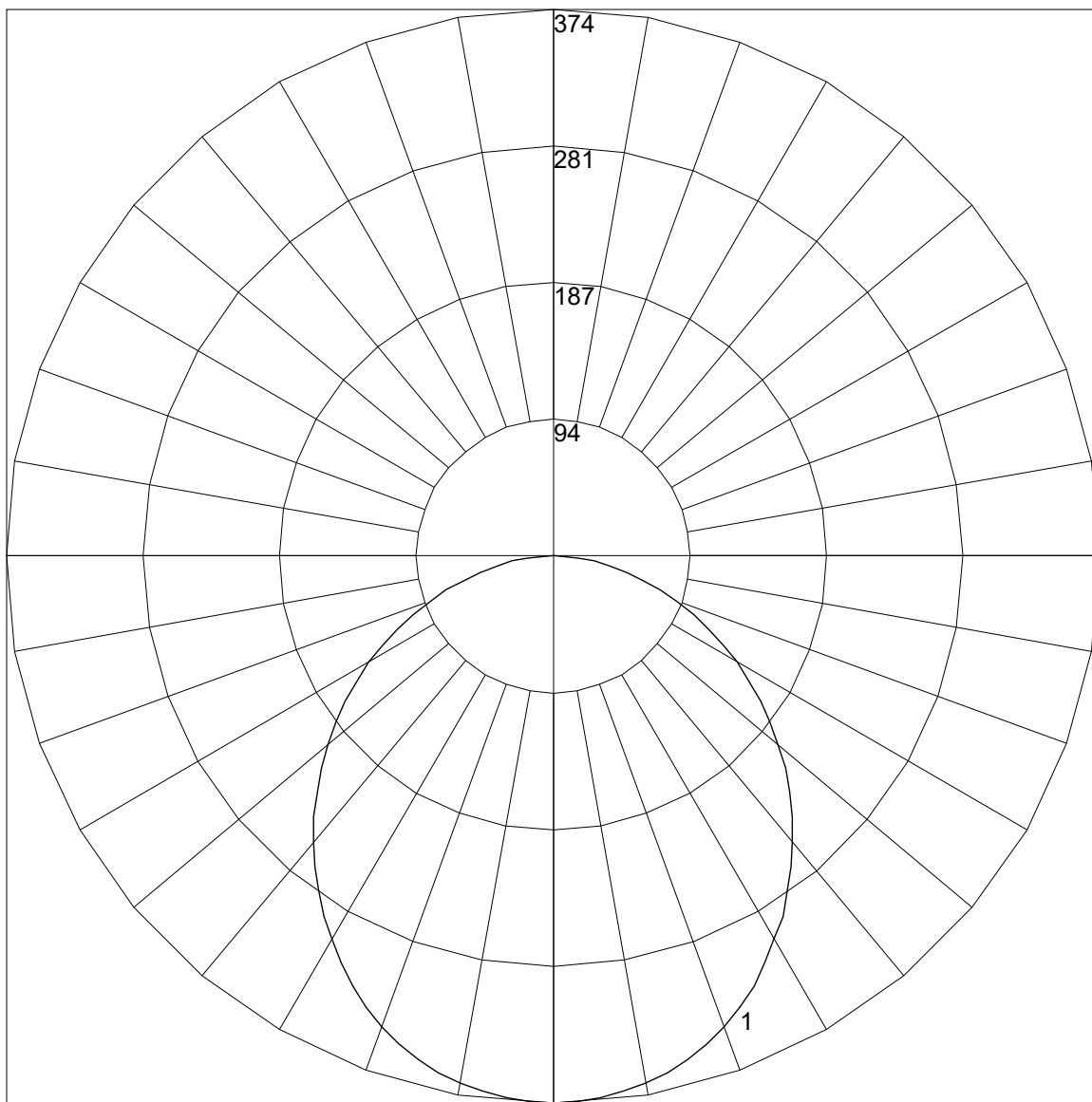
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	62	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 = 374.436 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)