

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-2FT-H-835-ITL91221.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91221.011 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-2ft-H-835

[_INPUT_ELECTRICAL]120.0 VOLTS, 11.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 11.8 WATTS

[_ABSOLUTE]LUMENS]1129

[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	1129
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	11.1
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	1698	1724	1759
55	1584	1614	1647
65	1456	1483	1509
75	1287	1316	1330
85	1101	1101	1101

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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	429.830	429.830	429.830	429.830	429.830	429.830	429.830	429.830	429.830
2.5	429.433	429.433	429.433	429.433	429.433	429.433	429.433	429.433	429.830
5.0	427.447	427.447	427.447	427.447	427.447	427.844	427.844	427.844	427.844
7.5	423.872	424.269	424.269	424.269	424.269	424.666	424.666	424.666	424.666
10.0	419.105	419.105	419.899	420.296	420.694	420.694	420.694	420.296	420.296
12.5	412.351	412.748	413.940	414.735	415.529	416.324	415.529	415.529	415.132
15.0	404.803	405.598	407.187	407.584	409.570	409.570	408.379	407.584	408.379
17.5	395.666	396.858	398.447	400.434	402.023	402.023	400.434	399.242	400.831
20.0	386.132	387.324	389.310	391.694	393.680	392.886	390.899	389.708	391.297
22.5	375.406	376.598	378.982	381.365	383.749	382.954	379.776	379.776	380.174
25.0	364.681	365.475	367.859	371.037	373.420	371.434	368.653	367.461	369.050
27.5	351.968	352.763	355.941	359.119	360.708	359.516	356.735	355.544	356.338
30.0	340.051	340.448	342.832	347.201	347.996	347.201	344.421	342.434	342.434
32.5	326.544	327.339	330.517	333.297	335.681	334.489	330.914	329.325	328.530
35.0	311.846	313.435	316.215	320.188	321.380	320.585	317.010	316.215	314.626
37.5	298.339	299.133	302.709	305.887	307.873	306.681	302.709	300.722	299.928
40.0	283.243	284.832	287.216	290.394	292.777	291.983	289.202	286.818	285.627
42.5	268.942	270.134	273.312	275.695	278.476	277.284	273.312	271.326	270.134
45.0	253.449	255.038	257.422	260.202	262.586	261.791	257.819	257.024	255.435
47.5	238.751	239.942	242.723	245.107	247.490	246.298	242.723	239.942	239.545
50.0	222.860	224.052	226.436	229.216	231.203	230.408	227.230	224.847	224.449
52.5	208.162	208.956	211.340	214.121	215.312	214.121	211.340	208.559	208.559
55.0	191.874	193.066	195.450	197.436	199.422	198.230	196.244	193.463	194.258
57.5	177.176	177.970	180.354	182.340	183.135	182.340	179.957	177.176	176.779
60.0	160.888	161.683	164.067	165.656	167.245	166.450	164.464	162.080	161.683
62.5	146.190	146.985	148.971	150.560	150.957	150.560	148.176	145.793	145.396
65.0	129.903	130.697	132.286	133.875	134.670	134.670	132.286	130.697	130.697
67.5	115.204	115.999	117.190	118.779	119.574	118.779	116.793	114.807	114.410
70.0	99.314	100.108	101.300	102.492	103.286	103.286	101.300	100.506	100.108
72.5	85.410	85.410	86.999	88.191	88.191	87.396	86.204	85.013	84.615
75.0	70.314	71.109	71.903	72.698	72.698	72.698	72.301	70.711	71.109
77.5	57.205	57.205	57.999	58.397	59.191	58.397	57.602	56.808	56.808
80.0	43.698	44.095	44.095	44.890	44.890	44.890	44.493	44.095	44.095
82.5	31.780	31.780	32.178	32.178	32.575	32.178	32.178	31.780	31.780
85.0	20.260	20.260	20.260	20.657	20.260	20.657	20.657	20.657	21.055
87.5	10.329	10.329	10.329	9.931	9.931	10.329	10.329	10.726	10.726
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	155.49	N.A.	13.80
0-30	325.35	N.A.	28.80
0-40	523.78	N.A.	46.40
0-60	898.14	N.A.	79.60
0-80	1105.73	N.A.	97.90
0-90	1128.88	N.A.	100.00
10-90	1088.3	N.A.	96.40
20-40	368.29	N.A.	32.60
20-50	567.58	N.A.	50.30
40-70	505.68	N.A.	44.80
60-80	207.59	N.A.	18.40
70-80	76.26	N.A.	6.80
80-90	23.15	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	1128.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.58
10-20	114.91
20-30	169.86
30-40	198.43
40-50	199.28
50-60	175.07
60-70	131.33
70-80	76.26
80-90	23.15
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

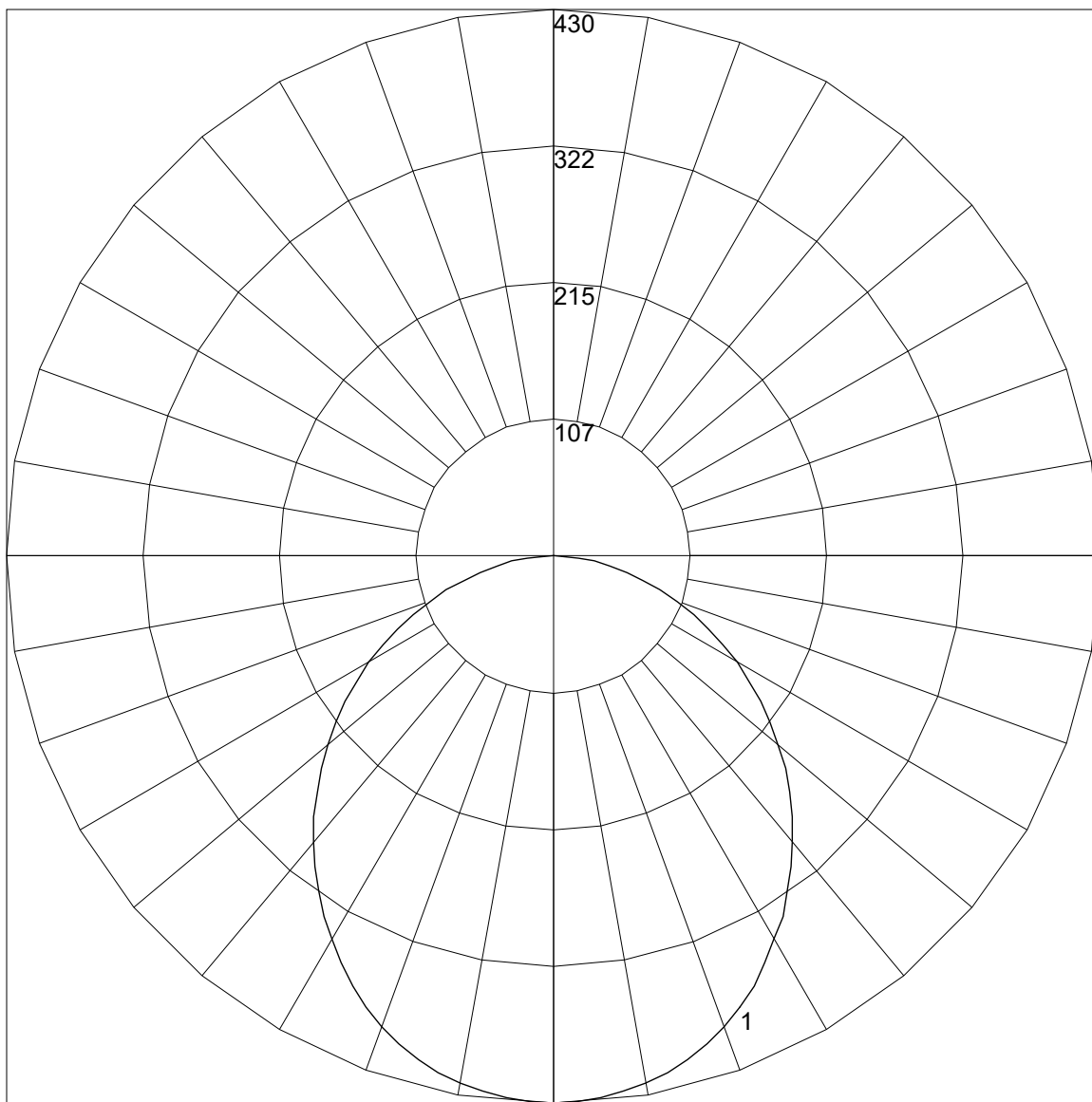
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	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	62	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	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 429.83 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)