

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-4FT-V-8TW-ITL91221.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL91221.900

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]12/22/18

[ISSUEDATE]03/01/19

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-C-D-P-4ft-V-8TW

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & C

[_INPUT_ELECTRICAL]120.0 VOLTS, 31.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 31.9 WATTS

[_ABSOLUTE]LUMENS]2842

[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	2842
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	31.1
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	4273	4340	4427
55	3988	4063	4145
65	3665	3732	3799
75	3239	3312	3349
85	2771	2771	2771

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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	1082	1082	1082	1082	1082	1082	1082	1082	1082
2.5	1081	1081	1081	1081	1081	1081	1081	1081	1082
5.0	1076	1076	1076	1076	1076	1077	1077	1077	1077
7.5	1067	1068	1068	1068	1068	1069	1069	1069	1069
10.0	1055	1055	1057	1058	1059	1059	1059	1058	1058
12.5	1038	1039	1042	1044	1046	1048	1046	1046	1045
15.0	1019	1021	1025	1026	1031	1031	1028	1026	1028
17.5	996	999	1003	1008	1012	1012	1008	1005	1009
20.0	972	975	980	986	991	989	984	981	985
22.5	945	948	954	960	966	964	956	956	957
25.0	918	920	926	934	940	935	928	925	929
27.5	886	888	896	904	908	905	898	895	897
30.0	856	857	863	874	876	874	867	862	862
32.5	822	824	832	839	845	842	833	829	827
35.0	785	789	796	806	809	807	798	796	792
37.5	751	753	762	770	775	772	762	757	755
40.0	713	717	723	731	737	735	728	722	719
42.5	677	680	688	694	701	698	688	683	680
45.0	638	642	648	655	661	659	649	647	643
47.5	601	604	611	617	623	620	611	604	603
50.0	561	564	570	577	582	580	572	566	565
52.5	524	526	532	539	542	539	532	525	525
55.0	483	486	492	497	502	499	494	487	489
57.5	446	448	454	459	461	459	453	446	445
60.0	405	407	413	417	421	419	414	408	407
62.5	368	370	375	379	380	379	373	367	366
65.0	327	329	333	337	339	339	333	329	329
67.5	290	292	295	299	301	299	294	289	288
70.0	250	252	255	258	260	260	255	253	252
72.5	215	215	219	222	222	220	217	214	213
75.0	177	179	181	183	183	183	182	178	179
77.5	144	144	146	147	149	147	145	143	143
80.0	110	111	111	113	113	113	112	111	111
82.5	80	80	81	81	82	81	81	80	80
85.0	51	51	51	52	51	52	52	52	53
87.5	26	26	26	25	25	26	26	27	27
90.0	0	0	0	0	0	0	0	0	0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-C-D-P-4FT-V-8TW-ITL91221.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	391.41	N.A.	13.80
0-30	818.99	N.A.	28.80
0-40	1318.5	N.A.	46.40
0-60	2260.85	N.A.	79.60
0-80	2783.41	N.A.	97.90
0-90	2841.7	N.A.	100.00
10-90	2739.55	N.A.	96.40
20-40	927.10	N.A.	32.60
20-50	1428.74	N.A.	50.30
40-70	1272.94	N.A.	44.80
60-80	522.56	N.A.	18.40
70-80	191.97	N.A.	6.80
80-90	58.29	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	2841.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.14
10-20	289.26
20-30	427.58
30-40	499.51
40-50	501.65
50-60	440.70
60-70	330.58
70-80	191.97
80-90	58.29
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

IES INDOOR REPORT

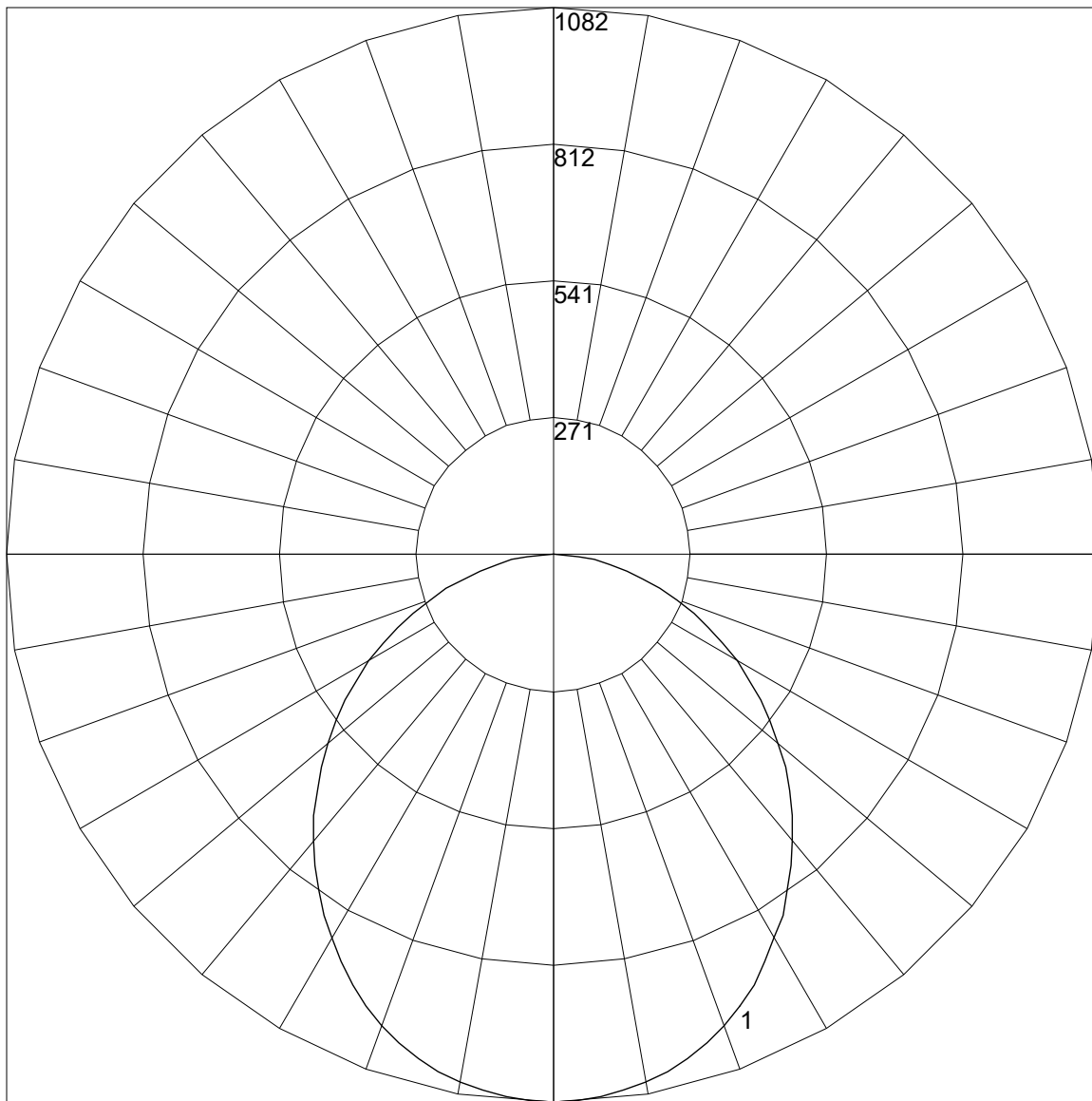
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1082 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)