

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-WW-D-K-4FT-V-8TW-ITL85130.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85130.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/10/15
[ISSUE DATE]02/10/17
[[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-WW-D-K-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 & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 21.8 WATTS, 0.166 AMPS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 23.6 WATTS, 0.0844 AMPS
[OTHER]see www.finelite.com for source file ITL85130. 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
[_ABSOLUTE LUMENS]1816

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1816
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	21.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.68
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.82
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.23 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14541	12767	4461
55	14414	12640	4329
65	14455	12209	4068
75	12226	11919	3700
85	8259	8517	3089

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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	373	373	373	373	373	373	373	373	373
2.5	429	423	411	390	375	351	340	329	325
5.0	495	484	456	412	374	331	306	288	281
7.5	568	549	503	434	373	312	276	254	247
10.0	645	618	551	456	371	294	250	226	218
12.5	718	688	599	479	369	277	228	203	195
15.0	791	757	649	501	366	261	209	183	175
17.5	860	821	696	522	362	245	192	165	157
20.0	921	879	741	542	358	231	176	150	142
22.5	976	931	783	560	352	217	162	136	128
25.0	1018	973	818	576	347	204	147	123	115
27.5	1047	1004	848	591	340	192	135	111	103
30.0	1064	1023	873	601	332	179	123	99	92
32.5	1071	1031	888	610	324	167	112	89	82
35.0	1072	1031	896	615	315	155	101	79	72
37.5	1065	1025	894	616	305	144	91	69	62
40.0	1052	1012	885	614	295	132	81	60	53
42.5	1028	992	869	609	283	121	71	50	44
45.0	996	964	848	599	271	110	62	42	35
47.5	959	929	821	587	257	99	53	33	27
50.0	921	890	790	570	243	88	44	24	16
52.5	881	847	751	547	229	78	35	14	7
55.0	842	807	708	522	214	68	28	6	6
57.5	803	766	664	492	198	58	19	6	6
60.0	766	725	622	459	182	49	10	6	6
62.5	724	683	577	424	166	39	6	6	6
65.0	673	639	536	387	149	31	5	6	6
67.5	620	591	496	349	132	22	5	6	6
70.0	557	536	454	312	116	15	5	5	6
72.5	494	474	410	277	100	7	5	5	6
75.0	407	404	363	243	84	4	4	5	5
77.5	326	330	311	213	68	4	4	5	5
80.0	254	257	254	181	54	3	4	5	5
82.5	203	196	193	149	39	3	4	4	3
85.0	157	148	137	109	25	2	0	0	0
87.5	116	109	94	67	12	0	0	0	0
90.0	75	68	54	28	0	0	0	0	0
92.5	39	33	21	2	0	0	0	0	0
95.0	11	6	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	158.33	N.A.	8.70
0-30	374.94	N.A.	20.60
0-40	668.92	N.A.	36.80
0-60	1307.8	N.A.	72.00
0-80	1739.46	N.A.	95.80
0-90	1809.86	N.A.	99.70
10-90	1772.95	N.A.	97.60
20-40	510.59	N.A.	28.10
20-50	838.78	N.A.	46.20
40-70	897.47	N.A.	49.40
60-80	431.66	N.A.	23.80
70-80	173.07	N.A.	9.50
80-90	70.39	N.A.	3.90
90-110	6.19	N.A.	0.30
90-120	6.19	N.A.	0.30
90-130	6.19	N.A.	0.30
90-150	6.19	N.A.	0.30
90-180	6.19	N.A.	0.30
110-180	0.00	N.A.	0.00
0-180	1816.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	36.90
10-20	121.43
20-30	216.61
30-40	293.98
40-50	328.19
50-60	310.69
60-70	258.58
70-80	173.07
80-90	70.39
90-100	6.19
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

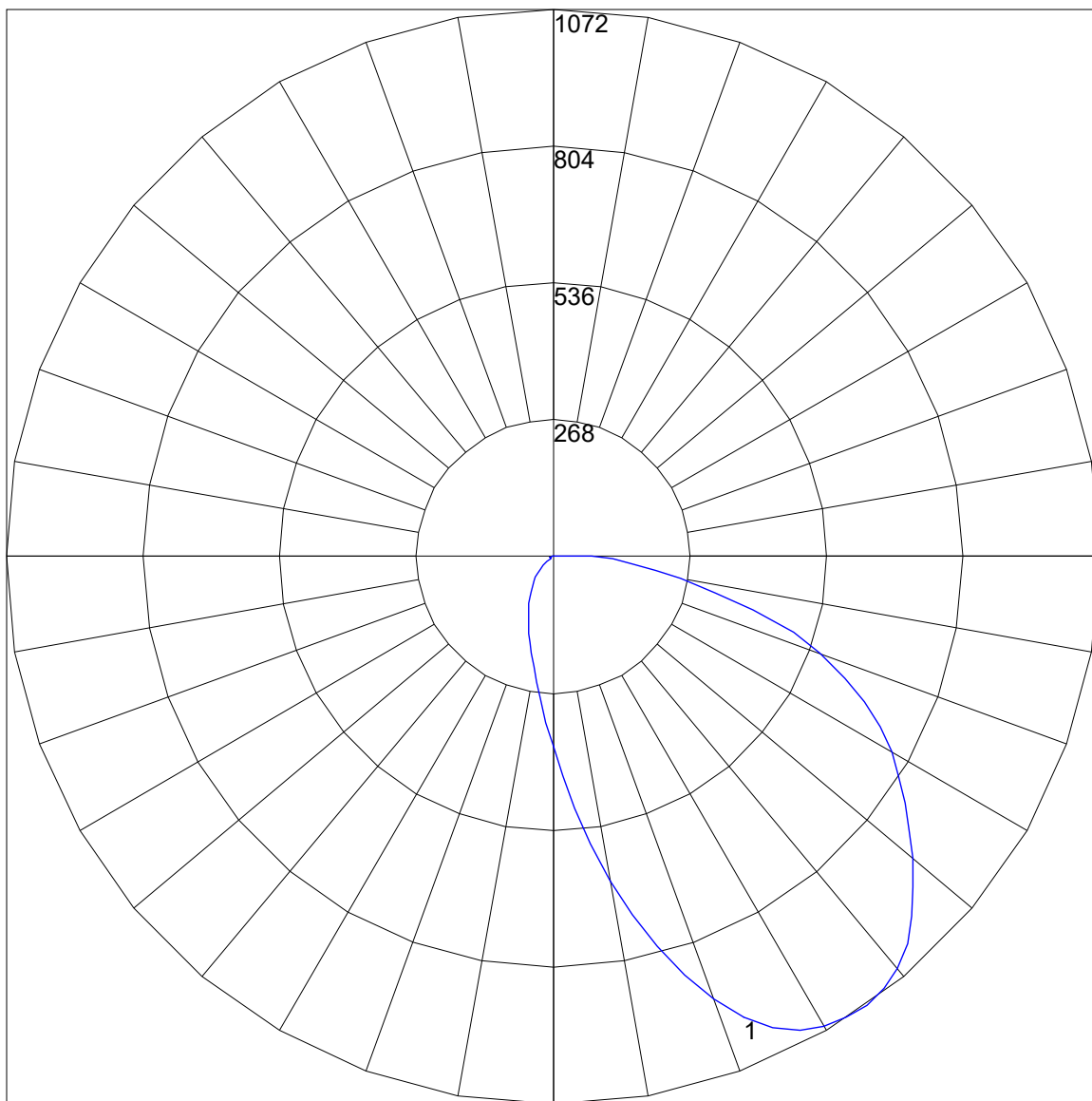
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70	78	73	69	75	71	67	65
3	87	75	66	59	84	74	65	59	71	64	58	68	62	57	65	60	55	53
4	79	66	57	49	77	65	56	49	62	54	48	60	53	47	57	51	47	44
5	72	58	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38
6	66	52	43	36	64	51	42	36	49	41	35	48	40	35	46	39	34	32
7	61	47	38	31	60	46	37	31	44	37	31	43	36	30	42	35	30	28
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	31	27	25
9	53	39	30	24	51	38	30	24	37	29	24	36	29	24	35	28	24	22
10	50	36	27	22	48	35	27	22	34	27	22	33	26	21	32	26	21	19

POLAR GRAPH



Maximum Candela = 1072 Located At Horizontal Angle = 0, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)