

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-S-835-ITL85130.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85130.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/10/15

[ISSUEDATE]02/10/17

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-WW-D-K-4ft-S-835

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 8.2 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 10.4 WATTS

[ABSOLUTE]LUMENS]743

[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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	8.2
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	5953	5226	1826
55	5901	5174	1772
65	5917	4998	1665
75	5005	4879	1514
85	3381	3486	1265

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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	152.690	152.690	152.690	152.690	152.690	152.690	152.690	152.690	152.690
2.5	175.614	173.158	168.246	159.649	153.509	143.684	139.181	134.678	133.041
5.0	202.632	198.129	186.667	168.655	153.099	135.497	125.263	117.895	115.029
7.5	232.515	224.737	205.906	177.661	152.690	127.719	112.982	103.977	101.111
10.0	264.035	252.982	225.556	186.667	151.871	120.351	102.339	92.515	89.240
12.5	293.918	281.637	245.205	196.082	151.053	113.392	93.333	83.099	79.825
15.0	323.801	309.883	265.673	205.088	149.825	106.842	85.556	74.912	71.637
17.5	352.047	336.082	284.912	213.684	148.187	100.292	78.596	67.544	64.269
20.0	377.018	359.825	303.333	221.871	146.550	94.561	72.047	61.404	58.129
22.5	399.532	381.111	320.526	229.240	144.094	88.830	66.316	55.673	52.398
25.0	416.725	398.304	334.854	235.789	142.047	83.509	60.175	50.351	47.076
27.5	428.596	410.994	347.134	241.930	139.181	78.596	55.263	45.439	42.164
30.0	435.556	418.772	357.368	246.023	135.906	73.275	50.351	40.526	37.661
32.5	438.421	422.047	363.509	249.708	132.632	68.363	45.848	36.433	33.567
35.0	438.830	422.047	366.784	251.754	128.947	63.450	41.345	32.339	29.474
37.5	435.965	419.591	365.965	252.164	124.854	58.947	37.251	28.246	25.380
40.0	430.643	414.269	362.281	251.345	120.760	54.035	33.158	24.561	21.696
42.5	420.819	406.082	355.731	249.298	115.848	49.532	29.064	20.468	18.012
45.0	407.719	394.620	347.134	245.205	110.936	45.029	25.380	17.193	14.327
47.5	392.573	380.292	336.082	240.292	105.205	40.526	21.696	13.509	11.053
50.0	377.018	364.327	323.392	233.333	99.474	36.023	18.012	9.825	6.550
52.5	360.643	346.725	307.427	223.918	93.743	31.930	14.327	5.731	2.865
55.0	344.678	330.351	289.825	213.684	87.602	27.836	11.462	2.456	2.456
57.5	328.713	313.567	271.813	201.404	81.053	23.743	7.778	2.456	2.456
60.0	313.567	296.784	254.620	187.895	74.503	20.058	4.094	2.456	2.456
62.5	296.374	279.591	236.199	173.567	67.953	15.965	2.456	2.456	2.456
65.0	275.497	261.579	219.415	158.421	60.994	12.690	2.047	2.456	2.456
67.5	253.801	241.930	203.041	142.865	54.035	9.006	2.047	2.456	2.456
70.0	228.012	219.415	185.848	127.719	47.485	6.140	2.047	2.047	2.456
72.5	202.222	194.035	167.836	113.392	40.936	2.865	2.047	2.047	2.456
75.0	166.608	165.380	148.596	99.474	34.386	1.637	1.637	2.047	2.047
77.5	133.450	135.088	127.310	87.193	27.836	1.637	1.637	2.047	2.047
80.0	103.977	105.205	103.977	74.094	22.105	1.228	1.637	2.047	2.047
82.5	83.099	80.234	79.006	60.994	15.965	1.228	1.637	1.637	1.228
85.0	64.269	60.585	56.082	44.620	10.234	0.819	0.000	0.000	0.000
87.5	47.485	44.620	38.480	27.427	4.912	0.000	0.000	0.000	0.000
90.0	30.702	27.836	22.105	11.462	0.000	0.000	0.000	0.000	0.000
92.5	15.965	13.509	8.596	0.819	0.000	0.000	0.000	0.000	0.000
95.0	4.503	2.456	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	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	64.81	N.A.	8.70
0-30	153.48	N.A.	20.60
0-40	273.83	N.A.	36.80
0-60	535.36	N.A.	72.00
0-80	712.06	N.A.	95.80
0-90	740.88	N.A.	99.70
10-90	725.77	N.A.	97.60
20-40	209.01	N.A.	28.10
20-50	343.36	N.A.	46.20
40-70	367.39	N.A.	49.40
60-80	176.70	N.A.	23.80
70-80	70.85	N.A.	9.50
80-90	28.82	N.A.	3.90
90-110	2.53	N.A.	0.30
90-120	2.53	N.A.	0.30
90-130	2.53	N.A.	0.30
90-150	2.53	N.A.	0.30
90-180	2.53	N.A.	0.30
110-180	0.00	N.A.	0.00
0-180	743.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.11
10-20	49.71
20-30	88.67
30-40	120.34
40-50	134.35
50-60	127.18
60-70	105.85
70-80	70.85
80-90	28.82
90-100	2.53
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

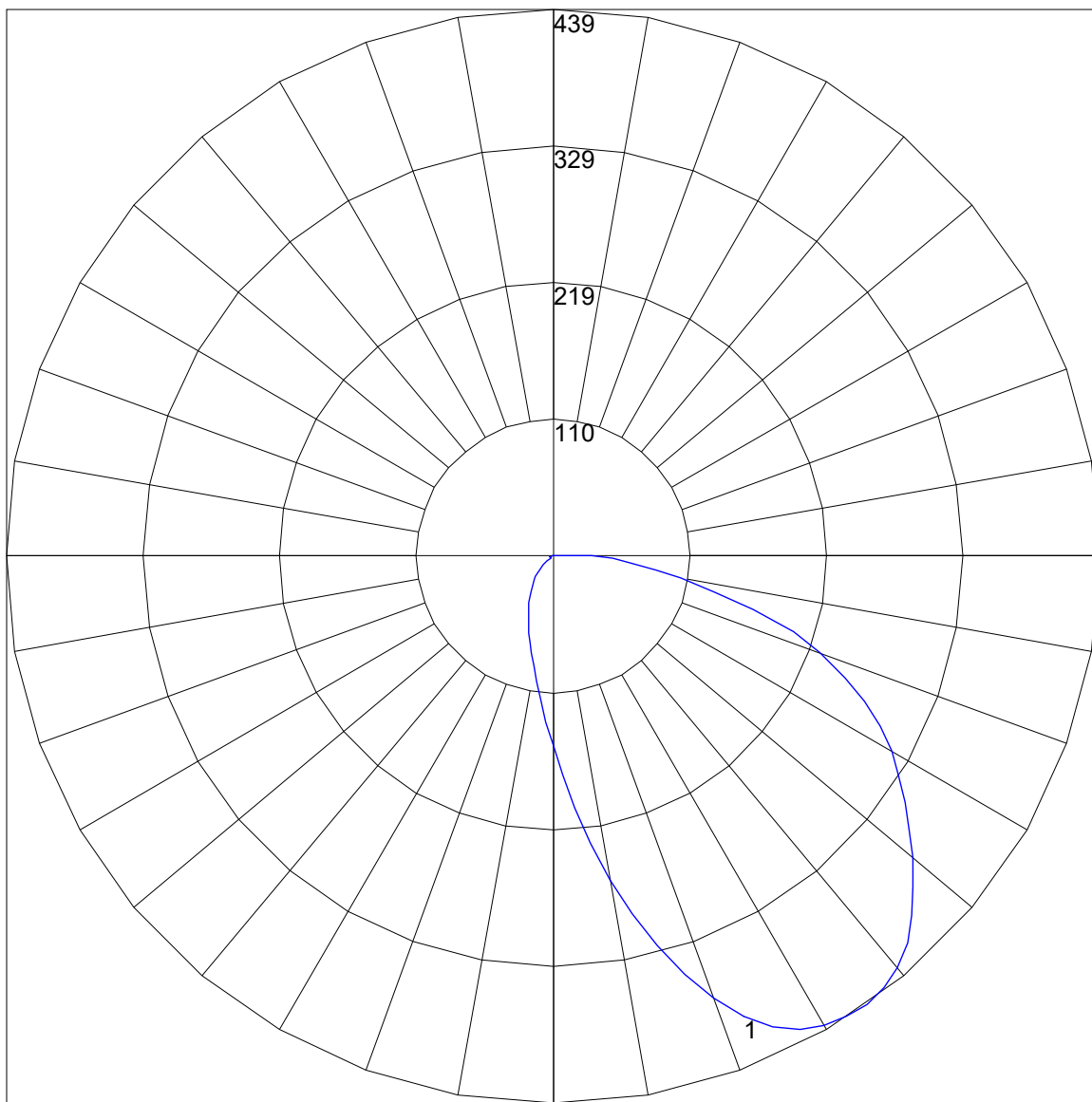
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	82	80
2	96	87	79	73	94	85	78	72	81	75	70	78	73	69	75	71	67	65
3	87	75	67	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	52	47	44
5	72	59	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38
6	67	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	45	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 = 438.83 Located At Horizontal Angle = 0, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)