

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-H-835-ITL85130.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85130.003 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-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 15.3 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 17.9 WATTS
[_ABSOLUTE]LUMENS]1412
[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	1412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	15.3
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	11310	9930	3470
55	11211	9831	3367
65	11243	9496	3164
75	9509	9270	2877
85	6424	6624	2403

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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	290.111	290.111	290.111	290.111	290.111	290.111	290.111	290.111	290.111
2.5	333.667	329.000	319.667	303.333	291.667	273.000	264.444	255.889	252.778
5.0	385.000	376.444	354.667	320.444	290.889	257.444	238.000	224.000	218.556
7.5	441.778	427.000	391.222	337.556	290.111	242.667	214.667	197.556	192.111
10.0	501.667	480.667	428.556	354.667	288.556	228.667	194.444	175.778	169.556
12.5	558.444	535.111	465.889	372.556	287.000	215.444	177.333	157.889	151.667
15.0	615.222	588.778	504.778	389.667	284.667	203.000	162.556	142.333	136.111
17.5	668.889	638.556	541.333	406.000	281.556	190.556	149.333	128.333	122.111
20.0	716.333	683.667	576.333	421.556	278.444	179.667	136.889	116.667	110.444
22.5	759.111	724.111	609.000	435.556	273.778	168.778	126.000	105.778	99.556
25.0	791.778	756.778	636.222	448.000	269.889	158.667	114.333	95.667	89.444
27.5	814.333	780.889	659.556	459.667	264.444	149.333	105.000	86.333	80.111
30.0	827.556	795.667	679.000	467.444	258.222	139.222	95.667	77.000	71.556
32.5	833.000	801.889	690.667	474.444	252.000	129.889	87.111	69.222	63.778
35.0	833.778	801.889	696.889	478.333	245.000	120.556	78.556	61.444	56.000
37.5	828.333	797.222	695.333	479.111	237.222	112.000	70.778	53.667	48.222
40.0	818.222	787.111	688.333	477.556	229.444	102.667	63.000	46.667	41.222
42.5	799.556	771.556	675.889	473.667	220.111	94.111	55.222	38.889	34.222
45.0	774.667	749.778	659.556	465.889	210.778	85.556	48.222	32.667	27.222
47.5	745.889	722.556	638.556	456.556	199.889	77.000	41.222	25.667	21.000
50.0	716.333	692.222	614.444	443.333	189.000	68.444	34.222	18.667	12.444
52.5	685.222	658.778	584.111	425.444	178.111	60.667	27.222	10.889	5.444
55.0	654.889	627.667	550.667	406.000	166.444	52.889	21.778	4.667	4.667
57.5	624.556	595.778	516.444	382.667	154.000	45.111	14.778	4.667	4.667
60.0	595.778	563.889	483.778	357.000	141.556	38.111	7.778	4.667	4.667
62.5	563.111	531.222	448.778	329.778	129.111	30.333	4.667	4.667	4.667
65.0	523.444	497.000	416.889	301.000	115.889	24.111	3.889	4.667	4.667
67.5	482.222	459.667	385.778	271.444	102.667	17.111	3.889	4.667	4.667
70.0	433.222	416.889	353.111	242.667	90.222	11.667	3.889	3.889	4.667
72.5	384.222	368.667	318.889	215.444	77.778	5.444	3.889	3.889	4.667
75.0	316.556	314.222	282.333	189.000	65.333	3.111	3.111	3.889	3.889
77.5	253.556	256.667	241.889	165.667	52.889	3.111	3.111	3.889	3.889
80.0	197.556	199.889	197.556	140.778	42.000	2.333	3.111	3.889	3.889
82.5	157.889	152.444	150.111	115.889	30.333	2.333	3.111	3.111	2.333
85.0	122.111	115.111	106.556	84.778	19.444	1.556	0.000	0.000	0.000
87.5	90.222	84.778	73.111	52.111	9.333	0.000	0.000	0.000	0.000
90.0	58.333	52.889	42.000	21.778	0.000	0.000	0.000	0.000	0.000
92.5	30.333	25.667	16.333	1.556	0.000	0.000	0.000	0.000	0.000
95.0	8.556	4.667	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	123.14	N.A.	8.70
0-30	291.62	N.A.	20.60
0-40	520.27	N.A.	36.80
0-60	1017.18	N.A.	72.00
0-80	1352.91	N.A.	95.80
0-90	1407.67	N.A.	99.70
10-90	1378.96	N.A.	97.60
20-40	397.12	N.A.	28.10
20-50	652.39	N.A.	46.20
40-70	698.03	N.A.	49.40
60-80	335.73	N.A.	23.80
70-80	134.61	N.A.	9.50
80-90	54.75	N.A.	3.90
90-110	4.81	N.A.	0.30
90-120	4.81	N.A.	0.30
90-130	4.81	N.A.	0.30
90-150	4.81	N.A.	0.30
90-180	4.81	N.A.	0.30
110-180	0.00	N.A.	0.00
0-180	1412.48	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	28.70
10-20	94.44
20-30	168.48
30-40	228.65
40-50	255.26
50-60	241.65
60-70	201.12
70-80	134.61
80-90	54.75
90-100	4.81
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

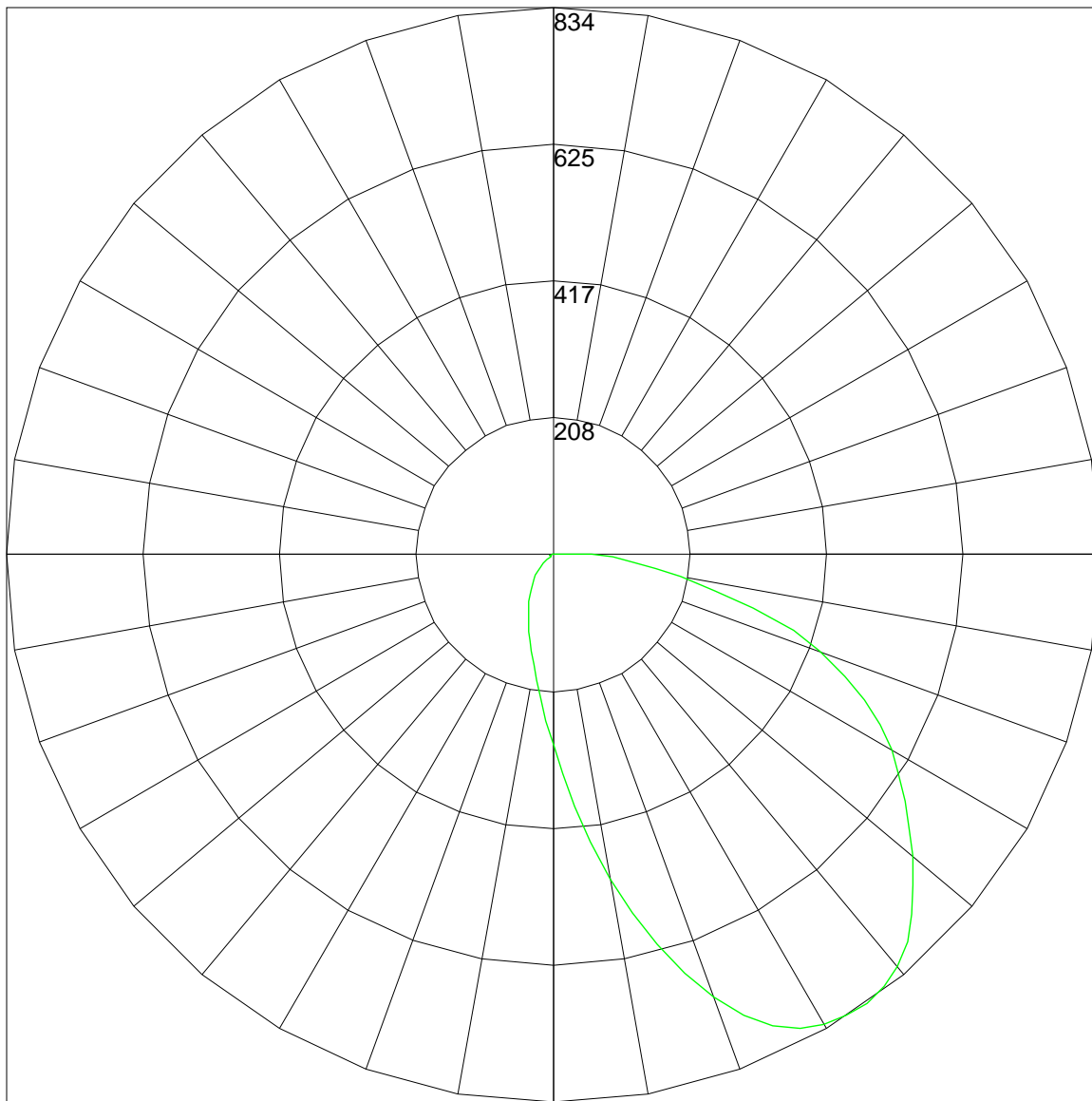
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	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	52	47	44
5	72	59	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	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 = 833.778 Located At Horizontal Angle = 0, Vertical Angle = 35
Vertical Plane Through Horizontal Angles (0 - 180)