

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-D-4FT-H-835-ITL85124.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85124.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/05/15
[ISSUE DATE]02/10/17
[MANUFACTURER]FINELITE, INC.
[LUMCAT]FINELITE HP-4-D-4ft-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 28.3 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 29.2 WATTS
[ABSOLUTE LUMENS]2882
[OTHER]see www.finelite.com for source file ITL85124. 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	2882
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	28.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7866	7766	7610
55	7304	7191	7033
65	6650	6604	6497
75	5905	5930	5905
85	4978	5127	5127

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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>
0.0	1116.889	1116.889	1116.889	1116.889	1116.889
2.5	1115.333	1115.333	1115.333	1114.556	1115.333
5.0	1110.667	1110.667	1109.889	1109.889	1109.889
7.5	1102.111	1101.333	1101.333	1101.333	1100.556
10.0	1092.000	1088.889	1089.667	1089.667	1086.556
12.5	1077.222	1072.556	1074.889	1074.889	1070.222
15.0	1060.111	1052.333	1056.222	1055.444	1050.000
17.5	1039.889	1030.556	1035.222	1032.889	1028.222
20.0	1016.556	1005.667	1011.111	1007.222	1001.778
22.5	989.333	978.444	983.111	977.667	973.000
25.0	961.333	949.667	953.556	948.111	942.667
27.5	929.444	918.556	921.667	914.667	910.000
30.0	896.778	885.889	886.667	880.444	875.000
32.5	861.000	850.111	850.889	843.889	838.444
35.0	824.444	814.333	815.111	806.556	801.111
37.5	786.333	777.000	776.222	767.667	764.556
40.0	747.444	738.889	738.111	729.556	725.667
42.5	707.778	700.000	699.222	690.667	686.000
45.0	668.111	660.333	659.556	650.222	646.333
47.5	627.667	620.667	619.111	610.556	607.444
50.0	586.444	580.222	577.889	570.111	567.000
52.5	545.222	539.000	537.444	529.667	525.000
55.0	503.222	497.000	495.444	488.444	484.556
57.5	462.000	456.556	455.000	448.778	445.667
60.0	420.000	415.333	413.778	408.333	406.000
62.5	378.778	377.222	373.333	369.444	366.333
65.0	337.556	336.000	335.222	330.556	329.778
67.5	297.889	297.111	295.556	292.444	292.444
70.0	259.000	258.222	257.444	254.333	255.111
72.5	220.111	220.111	220.111	218.556	219.333
75.0	183.556	183.556	184.333	182.778	183.556
77.5	147.778	147.778	149.333	148.556	150.111
80.0	114.333	114.333	115.889	115.889	116.667
82.5	82.444	84.000	84.000	84.778	84.778
85.0	52.111	52.889	53.667	54.444	53.667
87.5	23.333	24.111	24.889	24.889	24.889
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	402.53	N.A.	14.00
0-30	840.13	N.A.	29.20
0-40	1347.96	N.A.	46.80
0-60	2296.81	N.A.	79.70
0-80	2822.16	N.A.	97.90
0-90	2881.96	N.A.	100.00
10-90	2776.66	N.A.	96.30
20-40	945.43	N.A.	32.80
20-50	1452.27	N.A.	50.40
40-70	1279.59	N.A.	44.40
60-80	525.35	N.A.	18.20
70-80	194.61	N.A.	6.80
80-90	59.79	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	2881.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.30
10-20	297.23
20-30	437.60
30-40	507.83
40-50	506.84
50-60	442.01
60-70	330.74
70-80	194.61
80-90	59.79
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

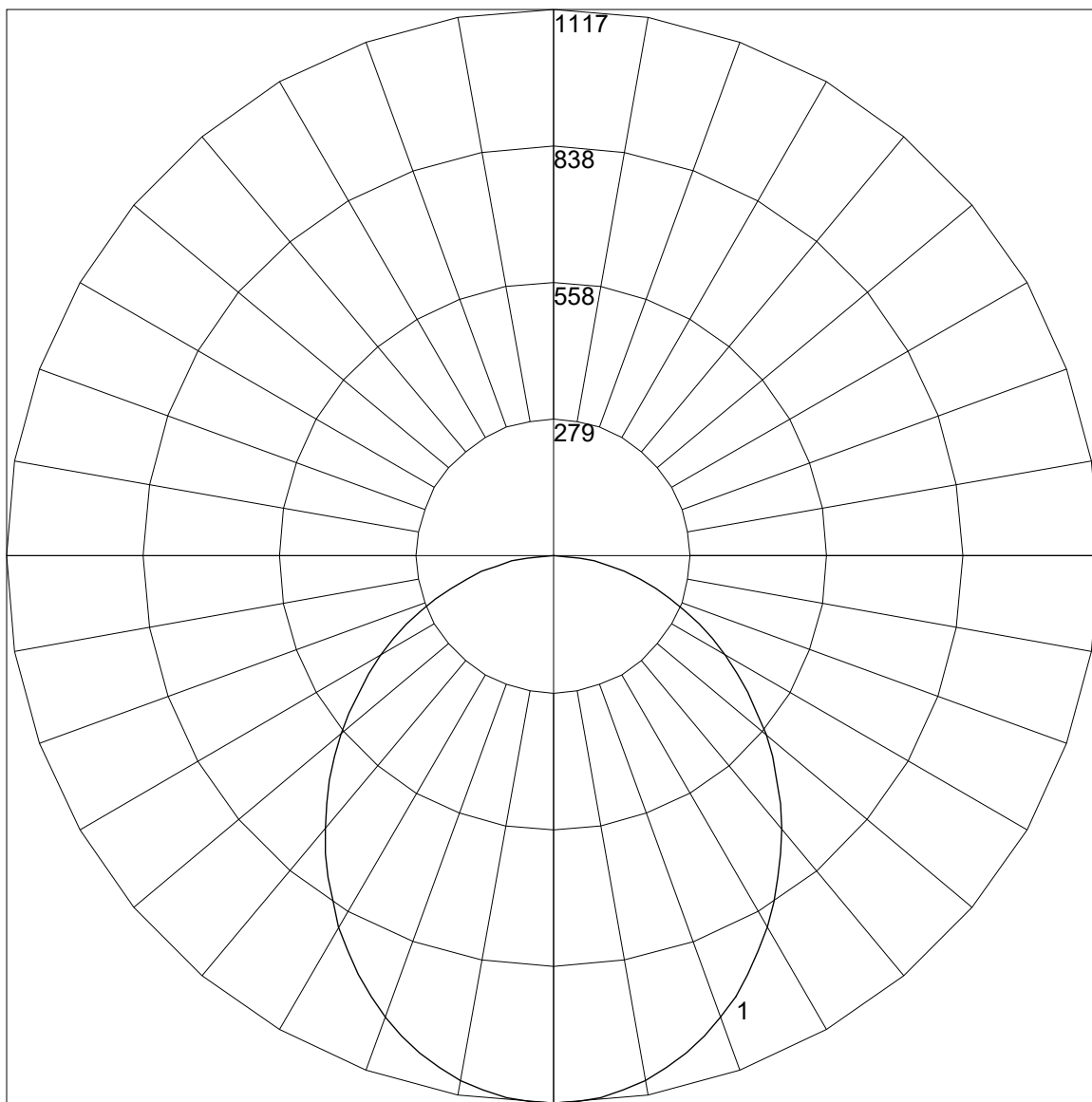
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	78	85	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	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	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1116.889 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)