

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-ID-4FT-V-H-835-ITL85125.006.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85125.006 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/06/15
[ISSUEDATE]02/09/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-ID-4ft-V-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 65.5 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 67.1 WATTS
[ABSOLUTE]LUMENS]7063
[OTHER]see www.finelite.com for source file ITL85125. 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	7063
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	65.5
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
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	7757	7619
55	7304	7191	7045
65	6665	6573	6466
75	5829	5829	5804
85	4829	5052	5201

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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	1122.333	1122.333	1122.333	1122.333	1122.333
2.5	1120.000	1120.000	1120.000	1120.000	1120.000
5.0	1114.555	1115.333	1115.333	1114.555	1115.333
7.5	1106.778	1107.555	1106.778	1105.222	1106.778
10.0	1095.889	1093.555	1094.333	1094.333	1092.778
12.5	1082.667	1078.778	1079.555	1079.555	1075.667
15.0	1064.000	1057.778	1061.667	1060.111	1054.667
17.5	1043.778	1035.222	1039.111	1037.555	1032.111
20.0	1019.667	1010.333	1013.444	1011.111	1005.667
22.5	993.222	983.111	985.444	982.333	976.889
25.0	963.667	952.778	955.111	952.000	945.778
27.5	931.778	920.889	922.444	918.556	913.111
30.0	897.556	886.667	887.444	883.556	877.333
32.5	861.778	853.222	852.444	847.000	841.556
35.0	826.000	816.667	815.889	808.889	804.222
37.5	787.111	777.778	778.556	770.000	765.333
40.0	748.222	740.444	739.667	731.111	726.444
42.5	710.889	700.778	698.444	691.444	686.778
45.0	668.111	661.111	658.778	651.778	647.111
47.5	626.889	619.889	618.333	611.333	606.667
50.0	585.667	579.444	577.111	570.111	566.222
52.5	544.444	538.222	537.444	529.667	525.778
55.0	503.222	497.778	495.445	488.445	485.333
57.5	461.222	456.555	454.222	448.000	444.889
60.0	420.778	415.333	413.778	408.333	406.000
62.5	378.778	374.111	372.555	367.889	366.333
65.0	338.333	334.445	333.667	329.778	328.222
67.5	297.111	294.778	294.000	290.889	289.333
70.0	257.445	255.889	255.889	253.556	252.000
72.5	218.556	219.333	217.778	218.556	216.222
75.0	181.222	182.000	181.222	182.000	180.444
77.5	145.444	146.222	147.778	147.778	147.778
80.0	112.000	112.778	114.333	115.111	115.111
82.5	81.667	82.444	83.222	84.000	84.000
85.0	50.556	52.111	52.889	53.667	54.444
87.5	21.778	23.333	24.111	26.444	26.444
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	32.000	34.000	38.000	39.000
95.0	71.000	72.000	76.000	81.000	82.000
97.5	115.000	116.000	121.000	126.000	125.000
100.0	160.000	162.000	167.000	172.000	171.000
102.5	206.000	210.000	215.000	220.000	220.000
105.0	257.000	261.000	266.000	270.000	269.000
107.5	311.000	314.000	317.000	321.000	321.000
110.0	369.000	369.000	372.000	376.000	375.000
112.5	427.000	425.000	429.000	435.000	430.000
115.0	485.000	483.000	485.000	490.000	486.000
117.5	543.000	544.000	545.000	546.000	543.000
120.0	602.000	604.000	603.000	602.000	600.000
122.5	662.000	664.000	664.000	661.000	658.000
125.0	723.000	726.000	726.000	720.000	717.000
127.5	784.000	786.000	788.000	779.000	773.000
130.0	843.000	844.000	846.000	840.000	835.000
132.5	903.000	902.000	903.000	899.000	893.000

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CANDELA TABULATION - (Cont.)

135.0	963.000	958.000	961.000	958.000	951.000
137.5	1021.000	1013.000	1018.000	1014.000	1007.000
140.0	1079.000	1070.000	1076.000	1072.000	1064.000
142.5	1132.000	1125.000	1132.000	1126.000	1119.000
145.0	1189.000	1177.000	1185.000	1179.000	1172.000
147.5	1240.000	1228.000	1236.000	1230.000	1223.000
150.0	1290.000	1277.000	1285.000	1279.000	1273.000
152.5	1334.000	1324.000	1332.000	1325.000	1320.000
155.0	1377.000	1367.000	1374.000	1368.000	1363.000
157.5	1419.000	1409.000	1415.000	1409.000	1405.000
160.0	1455.000	1447.000	1453.000	1447.000	1444.000
162.5	1489.000	1480.000	1487.000	1481.000	1479.000
165.0	1517.000	1510.000	1514.000	1511.000	1510.000
167.5	1542.000	1536.000	1539.000	1537.000	1537.000
170.0	1563.000	1559.000	1561.000	1559.000	1559.000
172.5	1578.000	1578.000	1577.000	1577.000	1577.000
175.0	1590.000	1590.000	1590.000	1589.000	1590.000
177.5	1597.000	1598.000	1598.000	1598.000	1598.000
180.0	1600.000	1600.000	1600.000	1600.000	1600.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	404.31	N.A.	5.70
0-30	843.24	N.A.	11.90
0-40	1352.22	N.A.	19.10
0-60	2301.11	N.A.	32.60
0-80	2823.45	N.A.	40.00
0-90	2882.59	N.A.	40.80
10-90	2776.81	N.A.	39.30
20-40	947.90	N.A.	13.40
20-50	1454.95	N.A.	20.60
40-70	1278.35	N.A.	18.10
60-80	522.34	N.A.	7.40
70-80	192.88	N.A.	2.70
80-90	59.14	N.A.	0.80
90-110	366.84	N.A.	5.20
90-120	848.57	N.A.	12.00
90-130	1494.82	N.A.	21.20
90-150	2972.13	N.A.	42.10
90-180	4180.24	N.A.	59.20
110-180	3813.4	N.A.	54.00
0-180	7062.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

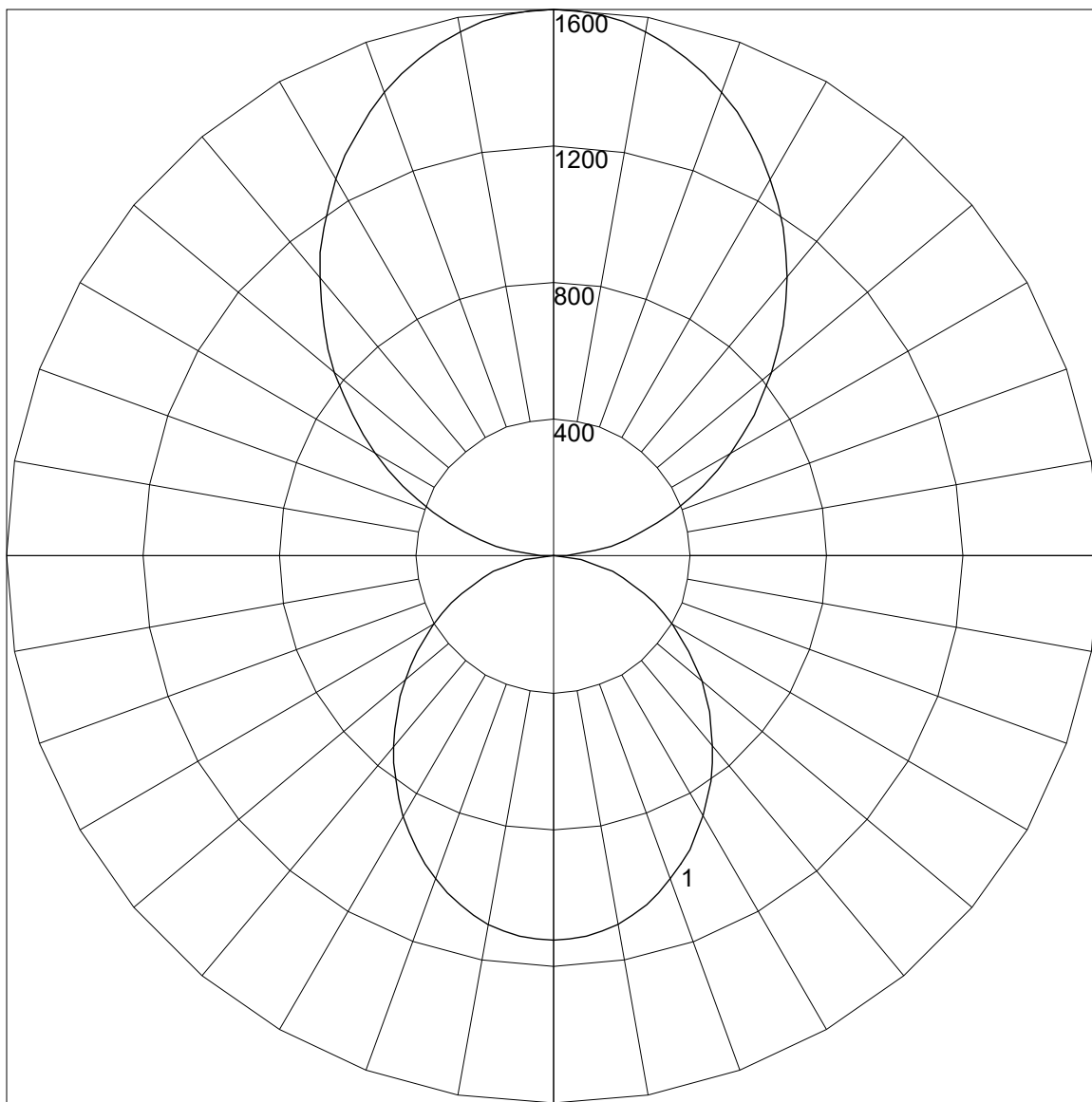
Zone	Lumens
0-10	105.78
10-20	298.53
20-30	438.92
30-40	508.98
40-50	507.04
50-60	441.85
60-70	329.46
70-80	192.88
80-90	59.14
90-100	85.72
100-110	281.12
110-120	481.73
120-130	646.25
130-140	739.31
140-150	738.00
150-160	631.02
160-170	426.27
170-180	150.82

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	33	31	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	28	48	37	30	26	31	26	22	25	21	19	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 1600 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)