

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-2-ID-4FT-V-H-835-ITL85132.006.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85132.006 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/11/15
[ISSUE DATE]02/10/17
[MANUFACTURER]FINELITE, INC.
[LUMCAT]FINELITE HP-2-ID-4ft-V-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 64.9 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 66.7 WATTS
[ABSOLUTE LUMENS]6283
[OTHER]see www.finelite.com for source file ITL85132. 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	6283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	64.9
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12508	11990	11406
55	11385	10829	10273
65	10282	9751	9276
75	9262	8760	8395
85	8129	7858	7452

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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	1022.000	1022.000	1022.000	1022.000	1022.000
2.5	1019.667	1021.222	1020.444	1020.444	1020.444
5.0	1015.778	1016.556	1015.000	1014.222	1014.222
7.5	1007.222	1008.000	1005.667	1004.889	1004.889
10.0	996.333	994.778	993.222	992.444	990.889
12.5	981.556	978.444	976.889	974.556	971.444
15.0	965.222	959.000	957.444	952.778	948.889
17.5	945.000	936.444	934.111	927.111	922.444
20.0	921.667	911.556	907.667	899.111	892.111
22.5	894.444	883.556	878.889	869.556	861.000
25.0	866.444	854.000	847.000	836.889	827.556
27.5	834.556	823.667	815.111	801.889	791.778
30.0	801.889	790.222	780.111	765.333	755.222
32.5	766.889	755.222	744.333	728.000	720.222
35.0	732.667	719.444	707.778	689.889	682.111
37.5	696.111	683.667	670.444	653.333	644.778
40.0	658.778	645.556	633.889	614.444	606.667
42.5	620.667	608.222	595.778	576.333	568.556
45.0	582.556	570.889	558.444	539.000	531.222
47.5	544.444	532.778	520.333	501.667	494.667
50.0	505.555	494.667	483.000	464.333	458.111
52.5	467.445	457.333	445.667	428.555	422.333
55.0	430.111	421.555	409.111	393.555	388.111
57.5	393.555	385.778	373.333	359.333	354.667
60.0	356.222	349.222	338.333	325.111	321.222
62.5	321.222	314.222	304.111	294.000	289.333
65.0	286.222	280.000	271.445	262.111	258.222
67.5	253.556	246.556	240.333	231.000	227.889
70.0	220.111	215.444	208.444	202.222	198.333
72.5	188.222	184.333	178.889	173.444	170.333
75.0	157.889	154.000	149.333	145.444	143.111
77.5	128.333	125.222	122.111	119.000	115.889
80.0	99.556	98.000	94.889	92.556	91.000
82.5	72.333	70.778	69.222	67.667	66.111
85.0	46.667	45.889	45.111	44.333	42.778
87.5	21.000	20.222	21.000	21.778	21.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	30.000	30.000	33.000	33.000
95.0	71.000	68.000	68.000	69.000	70.000
97.5	112.000	109.000	107.000	108.000	108.000
100.0	154.000	149.000	149.000	149.000	148.000
102.5	198.000	194.000	192.000	191.000	191.000
105.0	244.000	241.000	236.000	235.000	234.000
107.5	291.000	288.000	282.000	281.000	280.000
110.0	340.000	337.000	332.000	330.000	327.000
112.5	391.000	386.000	383.000	378.000	375.000
115.0	442.000	439.000	437.000	427.000	425.000
117.5	496.000	491.000	491.000	479.000	477.000
120.0	551.000	543.000	545.000	533.000	529.000
122.5	603.000	595.000	599.000	589.000	582.000
125.0	661.000	649.000	653.000	643.000	638.000
127.5	718.000	705.000	707.000	699.000	697.000
130.0	774.000	761.000	763.000	753.000	754.000
132.5	830.000	816.000	819.000	809.000	809.000

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CANDELA TABULATION - (Cont.)

135.0	884.000	871.000	875.000	866.000	866.000
137.5	939.000	926.000	930.000	922.000	921.000
140.0	994.000	981.000	984.000	979.000	976.000
142.5	1046.000	1032.000	1036.000	1031.000	1027.000
145.0	1099.000	1084.000	1088.000	1084.000	1077.000
147.5	1148.000	1133.000	1138.000	1132.000	1125.000
150.0	1195.000	1180.000	1186.000	1179.000	1173.000
152.5	1240.000	1225.000	1231.000	1225.000	1219.000
155.0	1283.000	1268.000	1275.000	1269.000	1263.000
157.5	1320.000	1306.000	1314.000	1308.000	1302.000
160.0	1356.000	1343.000	1350.000	1344.000	1338.000
162.5	1387.000	1376.000	1381.000	1377.000	1373.000
165.0	1415.000	1405.000	1408.000	1406.000	1403.000
167.5	1436.000	1430.000	1432.000	1430.000	1429.000
170.0	1455.000	1452.000	1453.000	1451.000	1450.000
172.5	1471.000	1470.000	1470.000	1469.000	1469.000
175.0	1482.000	1482.000	1482.000	1482.000	1481.000
177.5	1488.000	1489.000	1489.000	1489.000	1488.000
180.0	1492.000	1492.000	1492.000	1492.000	1492.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	365.38	N.A.	5.80
0-30	754.71	N.A.	12.00
0-40	1196.34	N.A.	19.00
0-60	1991.01	N.A.	31.70
0-80	2419.42	N.A.	38.50
0-90	2469.16	N.A.	39.30
10-90	2372.95	N.A.	37.80
20-40	830.97	N.A.	13.20
20-50	1260.15	N.A.	20.10
40-70	1064.05	N.A.	16.90
60-80	428.40	N.A.	6.80
70-80	159.02	N.A.	2.50
80-90	49.74	N.A.	0.80
90-110	329.21	N.A.	5.20
90-120	759.73	N.A.	12.10
90-130	1340.41	N.A.	21.30
90-150	2691.63	N.A.	42.80
90-180	3813.36	N.A.	60.70
110-180	3484.15	N.A.	55.50
0-180	6282.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.21
10-20	269.16
20-30	389.34
30-40	441.63
40-50	429.18
50-60	365.49
60-70	269.38
70-80	159.02
80-90	49.74
90-100	77.06
100-110	252.15
110-120	430.52
120-130	580.67
130-140	672.56
140-150	678.67
150-160	584.78
160-170	396.44
170-180	140.51

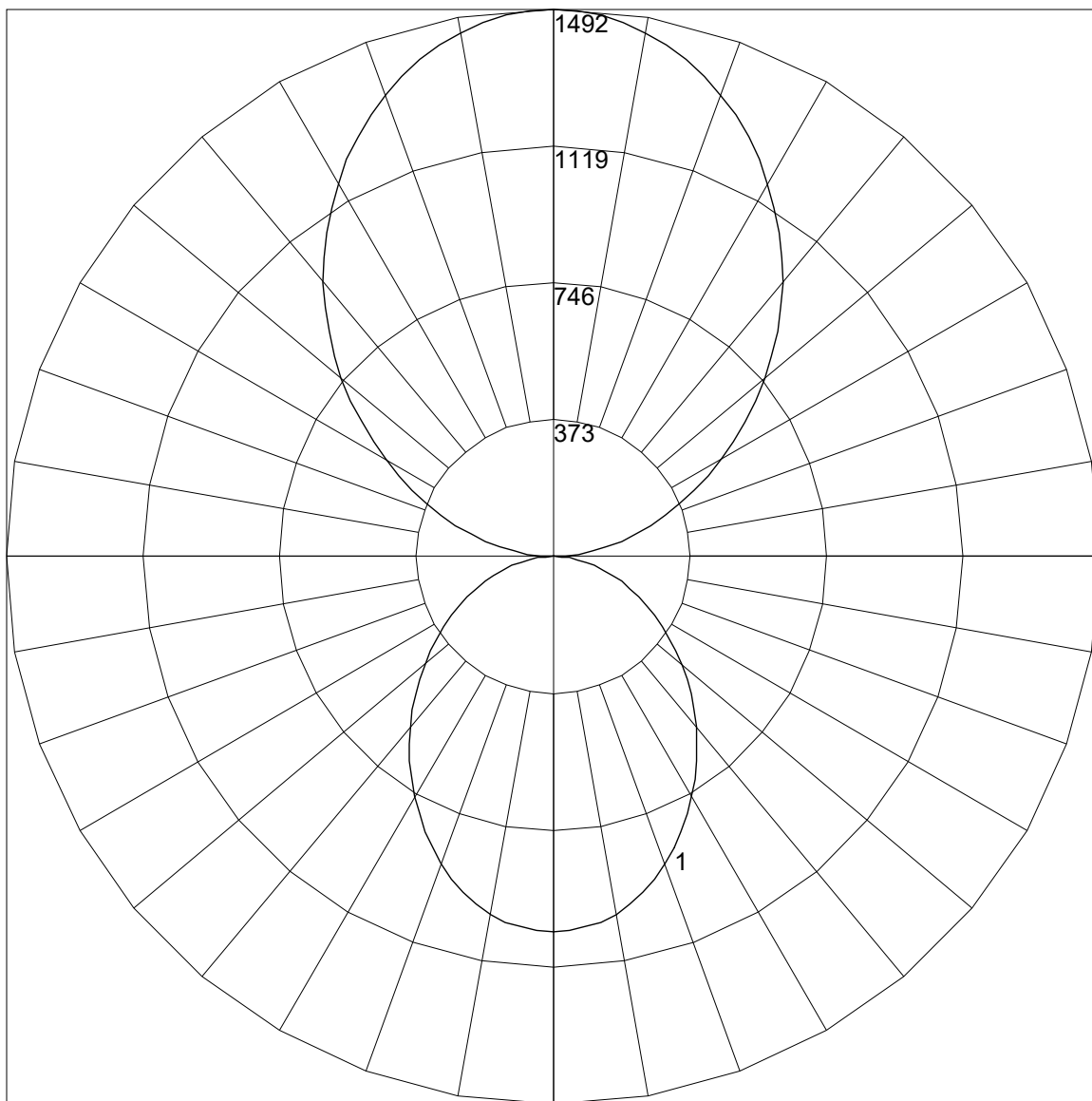
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 1492 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)