

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-H-H-835-ITL85132.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85132.003 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/11/15
[ISSUEDATE]02/10/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-2-ID-4ft-H-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 56.5 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 58.0 WATTS
[ABSOLUTE]LUMENS]5435
[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	5435
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	56.5
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)	0.18 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	505.556	494.667	483.000	464.333	458.111
52.5	467.444	457.333	445.667	428.556	422.333
55.0	430.111	421.556	409.111	393.556	388.111
57.5	393.556	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	271.444	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	23.333	23.333	23.333	25.667	25.667
95.0	55.222	52.889	52.889	53.667	54.444
97.5	87.111	84.778	83.222	84.000	84.000
100.0	119.778	115.889	115.889	115.889	115.111
102.5	154.000	150.889	149.333	148.556	148.556
105.0	189.778	187.444	183.556	182.778	182.000
107.5	226.333	224.000	219.333	218.556	217.778
110.0	264.444	262.111	258.222	256.667	254.333
112.5	304.111	300.222	297.889	294.000	291.667
115.0	343.778	341.444	339.889	332.111	330.556
117.5	385.778	381.889	381.889	372.556	371.000
120.0	428.556	422.333	423.889	414.556	411.444
122.5	469.000	462.778	465.889	458.111	452.667
125.0	514.111	504.778	507.889	500.111	496.222
127.5	558.444	548.333	549.889	543.667	542.111
130.0	602.000	591.889	593.444	585.667	586.444
132.5	645.556	634.667	637.000	629.222	629.222

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CANDELA TABULATION - (Cont.)

135.0	687.556	677.444	680.556	673.556	673.556
137.5	730.333	720.222	723.333	717.111	716.333
140.0	773.111	763.000	765.333	761.444	759.111
142.5	813.556	802.667	805.778	801.889	798.778
145.0	854.778	843.111	846.222	843.111	837.667
147.5	892.889	881.222	885.111	880.444	875.000
150.0	929.444	917.778	922.444	917.000	912.333
152.5	964.444	952.778	957.444	952.778	948.111
155.0	997.889	986.222	991.667	987.000	982.333
157.5	1026.667	1015.778	1022.000	1017.333	1012.667
160.0	1054.667	1044.556	1050.000	1045.333	1040.667
162.5	1078.778	1070.222	1074.111	1071.000	1067.889
165.0	1100.556	1092.778	1095.111	1093.556	1091.222
167.5	1116.889	1112.222	1113.778	1112.222	1111.444
170.0	1131.667	1129.333	1130.111	1128.556	1127.778
172.5	1144.111	1143.333	1143.333	1142.556	1142.556
175.0	1152.667	1152.667	1152.667	1152.667	1151.889
177.5	1157.333	1158.111	1158.111	1158.111	1157.333
180.0	1160.444	1160.444	1160.444	1160.444	1160.444

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	365.38	N.A.	6.70
0-30	754.71	N.A.	13.90
0-40	1196.34	N.A.	22.00
0-60	1991.01	N.A.	36.60
0-80	2419.42	N.A.	44.50
0-90	2469.16	N.A.	45.40
10-90	2372.95	N.A.	43.70
20-40	830.97	N.A.	15.30
20-50	1260.15	N.A.	23.20
40-70	1064.05	N.A.	19.60
60-80	428.40	N.A.	7.90
70-80	159.02	N.A.	2.90
80-90	49.74	N.A.	0.90
90-110	256.05	N.A.	4.70
90-120	590.90	N.A.	10.90
90-130	1042.54	N.A.	19.20
90-150	2093.49	N.A.	38.50
90-180	2965.95	N.A.	54.60
110-180	2709.9	N.A.	49.90
0-180	5435.11	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	59.94
100-110	196.12
110-120	334.85
120-130	451.64
130-140	523.10
140-150	527.85
150-160	454.83
160-170	308.34
170-180	109.29

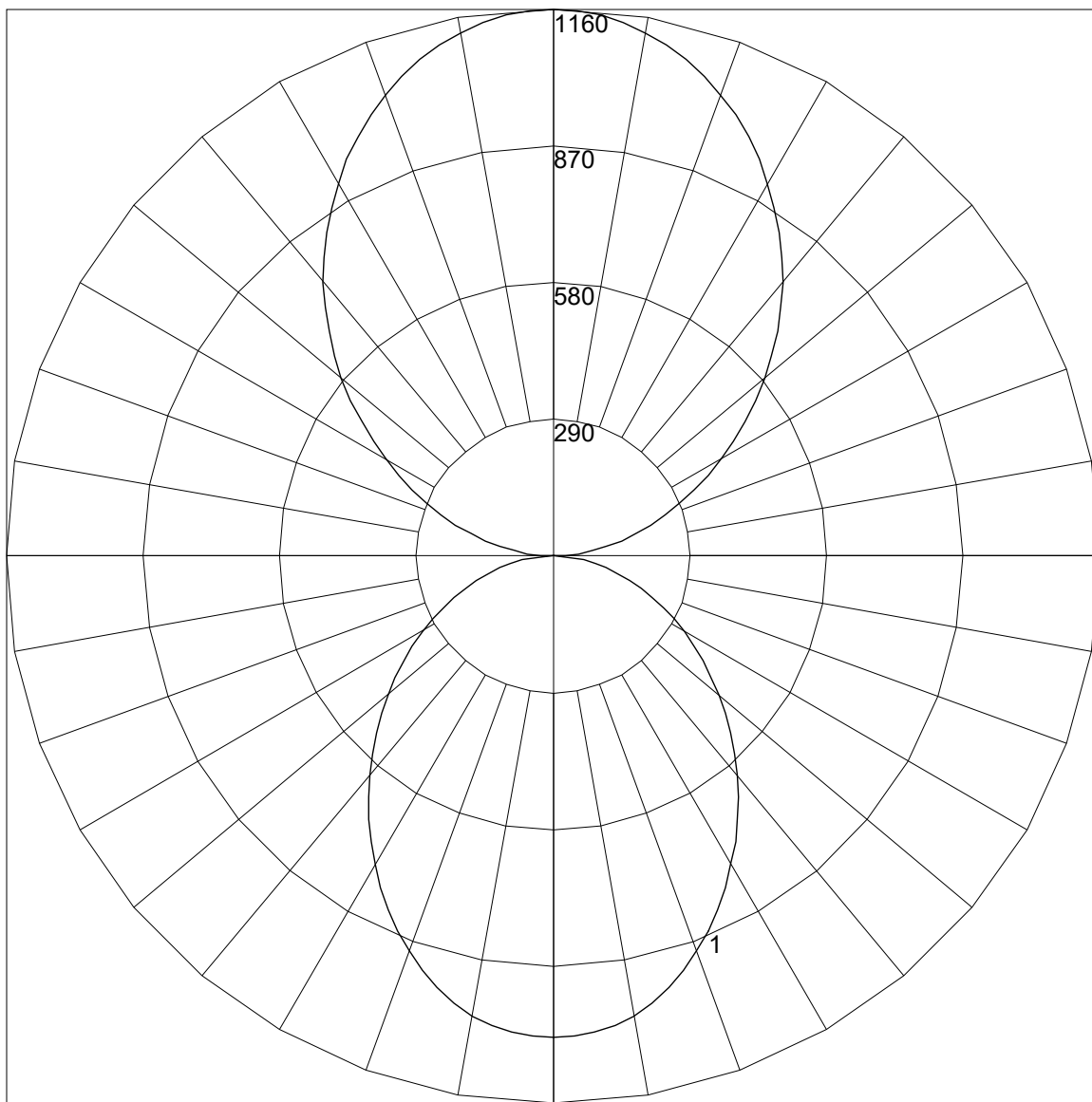
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	92	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	80	71	64	58	74	65	59	54	55	50	46	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	30	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	21
6	62	50	42	37	57	47	40	34	39	34	30	33	29	25	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	53	41	34	28	49	38	31	27	33	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	17	15	13
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14	12

POLAR GRAPH



Maximum Candela = 1160.444 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)