

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-B-H-835-ITL85132.011.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85132.011 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-B-H-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 46.4 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 48.6 WATTS
[ABSOLUTE]LUMENS]4432
[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	4432
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	46.4
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	505.555	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	15.439	15.439	15.439	16.983	16.983
95.0	36.538	34.994	34.994	35.509	36.023
97.5	57.637	56.094	55.064	55.579	55.579
100.0	79.251	76.678	76.678	76.678	76.164
102.5	101.895	99.836	98.807	98.292	98.292
105.0	125.567	124.023	121.450	120.936	120.421
107.5	149.754	148.210	145.123	144.608	144.094
110.0	174.971	173.427	170.854	169.825	168.281
112.5	201.216	198.643	197.099	194.526	192.982
115.0	227.462	225.918	224.889	219.743	218.714
117.5	255.251	252.678	252.678	246.503	245.474
120.0	283.555	279.439	280.468	274.292	272.234
122.5	310.316	306.199	308.257	303.111	299.509
125.0	340.164	333.988	336.047	330.901	328.327
127.5	369.497	362.807	363.836	359.719	358.690
130.0	398.316	391.626	392.655	387.509	388.023
132.5	427.135	419.930	421.474	416.327	416.327

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CANDELA TABULATION - (Cont.)

135.0	454.924	448.234	450.292	445.661	445.661
137.5	483.228	476.538	478.596	474.479	473.965
140.0	511.532	504.842	506.386	503.813	502.269
142.5	538.292	531.088	533.146	530.573	528.515
145.0	565.567	557.848	559.906	557.848	554.246
147.5	590.784	583.064	585.638	582.550	578.947
150.0	614.971	607.251	610.339	606.737	603.649
152.5	638.129	630.409	633.497	630.409	627.322
155.0	660.257	652.538	656.140	653.053	649.965
157.5	679.298	672.094	676.211	673.123	670.035
160.0	697.825	691.135	694.737	691.649	688.561
162.5	713.778	708.117	710.690	708.632	706.573
165.0	728.187	723.041	724.585	723.556	722.012
167.5	738.994	735.906	736.936	735.906	735.392
170.0	748.772	747.228	747.743	746.713	746.199
172.5	757.006	756.491	756.491	755.977	755.977
175.0	762.667	762.667	762.667	762.667	762.152
177.5	765.754	766.269	766.269	766.269	765.754
180.0	767.813	767.813	767.813	767.813	767.813

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	365.38	N.A.	8.20
0-30	754.71	N.A.	17.00
0-40	1196.34	N.A.	27.00
0-60	1991.01	N.A.	44.90
0-80	2419.42	N.A.	54.60
0-90	2469.16	N.A.	55.70
10-90	2372.95	N.A.	53.50
20-40	830.97	N.A.	18.80
20-50	1260.15	N.A.	28.40
40-70	1064.05	N.A.	24.00
60-80	428.40	N.A.	9.70
70-80	159.02	N.A.	3.60
80-90	49.74	N.A.	1.10
90-110	169.42	N.A.	3.80
90-120	390.97	N.A.	8.80
90-130	689.80	N.A.	15.60
90-150	1385.17	N.A.	31.30
90-180	1962.43	N.A.	44.30
110-180	1793.01	N.A.	40.50
0-180	4431.59	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	39.66
100-110	129.76
110-120	221.56
120-130	298.83
130-140	346.11
140-150	349.26
150-160	300.94
160-170	204.02
170-180	72.31

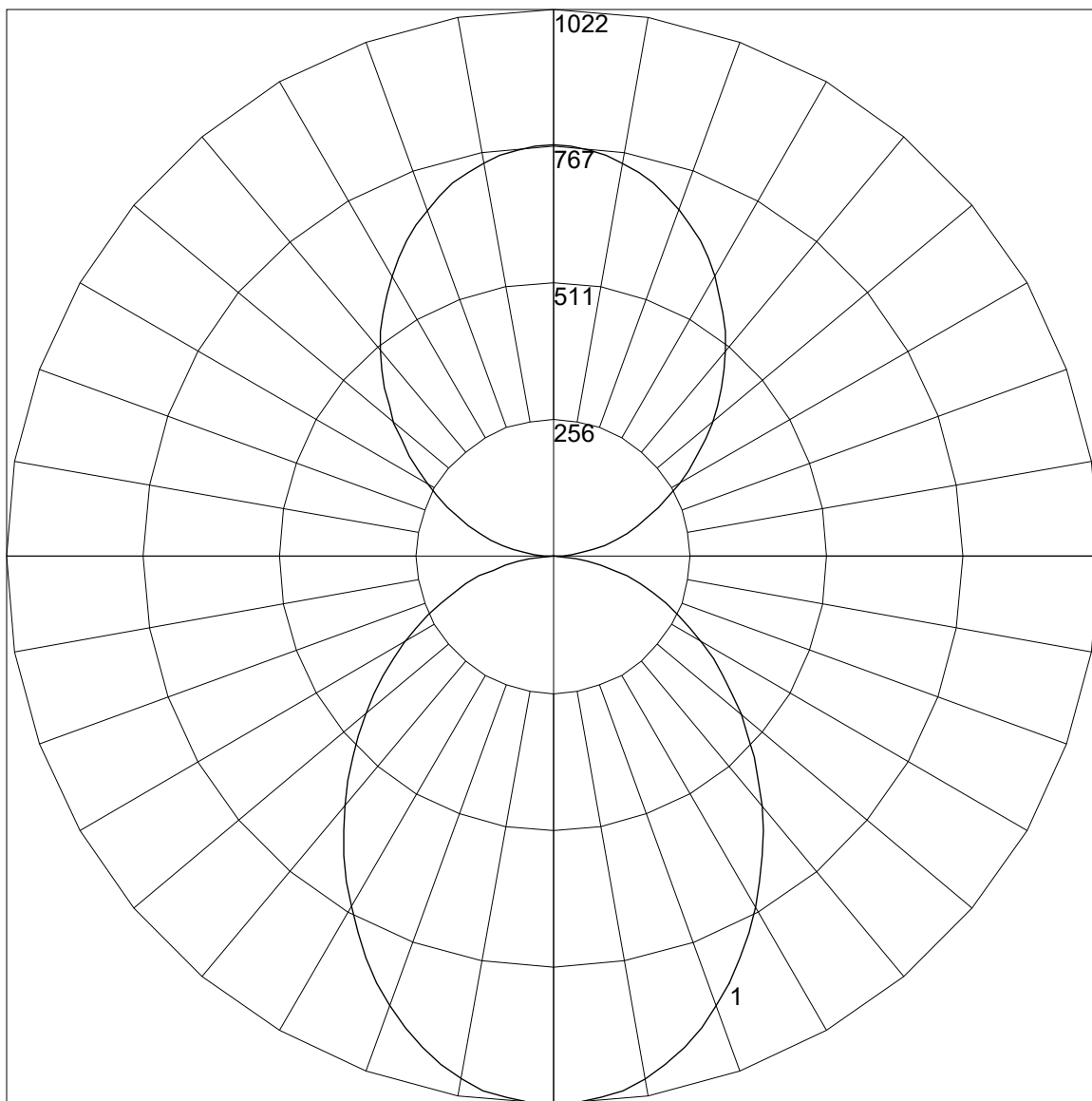
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52	47
2	90	83	77	71	84	77	72	67	67	63	59	57	54	51	48	46	44	39
3	82	73	66	60	76	68	62	56	59	54	50	50	47	43	43	40	37	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	39	33	29	33	29	25	29	25	22	20
8	55	43	35	30	51	40	33	28	35	30	25	31	26	23	26	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

POLAR GRAPH



Maximum Candela = 1022 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)