

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-S-H-8-35-ITL85132.014.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85132.014 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/11/15
[ISSUE DATE]04/26/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-2-ID-4ft-S-H-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 42.5 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 44.9 WATTS
[ABSOLUTE LUMENS]4030
[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	4030
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	42.5
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.26
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	12.281	12.281	12.281	13.509	13.509
95.0	29.064	27.836	27.836	28.246	28.655
97.5	45.848	44.620	43.801	44.211	44.211
100.0	63.041	60.994	60.994	60.994	60.585
102.5	81.053	79.415	78.597	78.187	78.187
105.0	99.883	98.655	96.608	96.199	95.790
107.5	119.123	117.895	115.439	115.029	114.620
110.0	139.181	137.953	135.906	135.088	133.860
112.5	160.059	158.012	156.784	154.737	153.509
115.0	180.936	179.708	178.889	174.795	173.977
117.5	203.041	200.994	200.994	196.082	195.263
120.0	225.556	222.281	223.099	218.187	216.550
122.5	246.842	243.567	245.205	241.111	238.246
125.0	270.585	265.673	267.310	263.216	261.170
127.5	293.918	288.596	289.415	286.140	285.322
130.0	316.842	311.521	312.339	308.246	308.655
132.5	339.766	334.035	335.263	331.170	331.170

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CANDELA TABULATION - (Cont.)

135.0	361.871	356.550	358.187	354.503	354.503
137.5	384.386	379.064	380.702	377.427	377.017
140.0	406.901	401.579	402.807	400.760	399.532
142.5	428.187	422.456	424.094	422.047	420.409
145.0	449.883	443.743	445.380	443.743	440.877
147.5	469.942	463.801	465.848	463.392	460.526
150.0	489.181	483.041	485.497	482.632	480.175
152.5	507.602	501.462	503.918	501.462	499.006
155.0	525.205	519.064	521.930	519.474	517.018
157.5	540.351	534.620	537.895	535.439	532.982
160.0	555.088	549.766	552.632	550.175	547.719
162.5	567.778	563.275	565.322	563.684	562.047
165.0	579.240	575.146	576.374	575.556	574.327
167.5	587.836	585.380	586.199	585.380	584.971
170.0	595.614	594.386	594.795	593.977	593.567
172.5	602.164	601.754	601.754	601.345	601.345
175.0	606.667	606.667	606.667	606.667	606.257
177.5	609.123	609.532	609.532	609.532	609.123
180.0	610.760	610.760	610.760	610.760	610.760

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	365.38	N.A.	9.10
0-30	754.71	N.A.	18.70
0-40	1196.34	N.A.	29.70
0-60	1991.01	N.A.	49.40
0-80	2419.42	N.A.	60.00
0-90	2469.16	N.A.	61.30
10-90	2372.95	N.A.	58.90
20-40	830.97	N.A.	20.60
20-50	1260.15	N.A.	31.30
40-70	1064.05	N.A.	26.40
60-80	428.40	N.A.	10.60
70-80	159.02	N.A.	3.90
80-90	49.74	N.A.	1.20
90-110	134.76	N.A.	3.30
90-120	311.00	N.A.	7.70
90-130	548.70	N.A.	13.60
90-150	1101.84	N.A.	27.30
90-180	1561.03	N.A.	38.70
110-180	1426.26	N.A.	35.40
0-180	4030.19	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	31.55
100-110	103.22
110-120	176.24
120-130	237.70
130-140	275.32
140-150	277.82
150-160	239.38
160-170	162.28
170-180	57.52

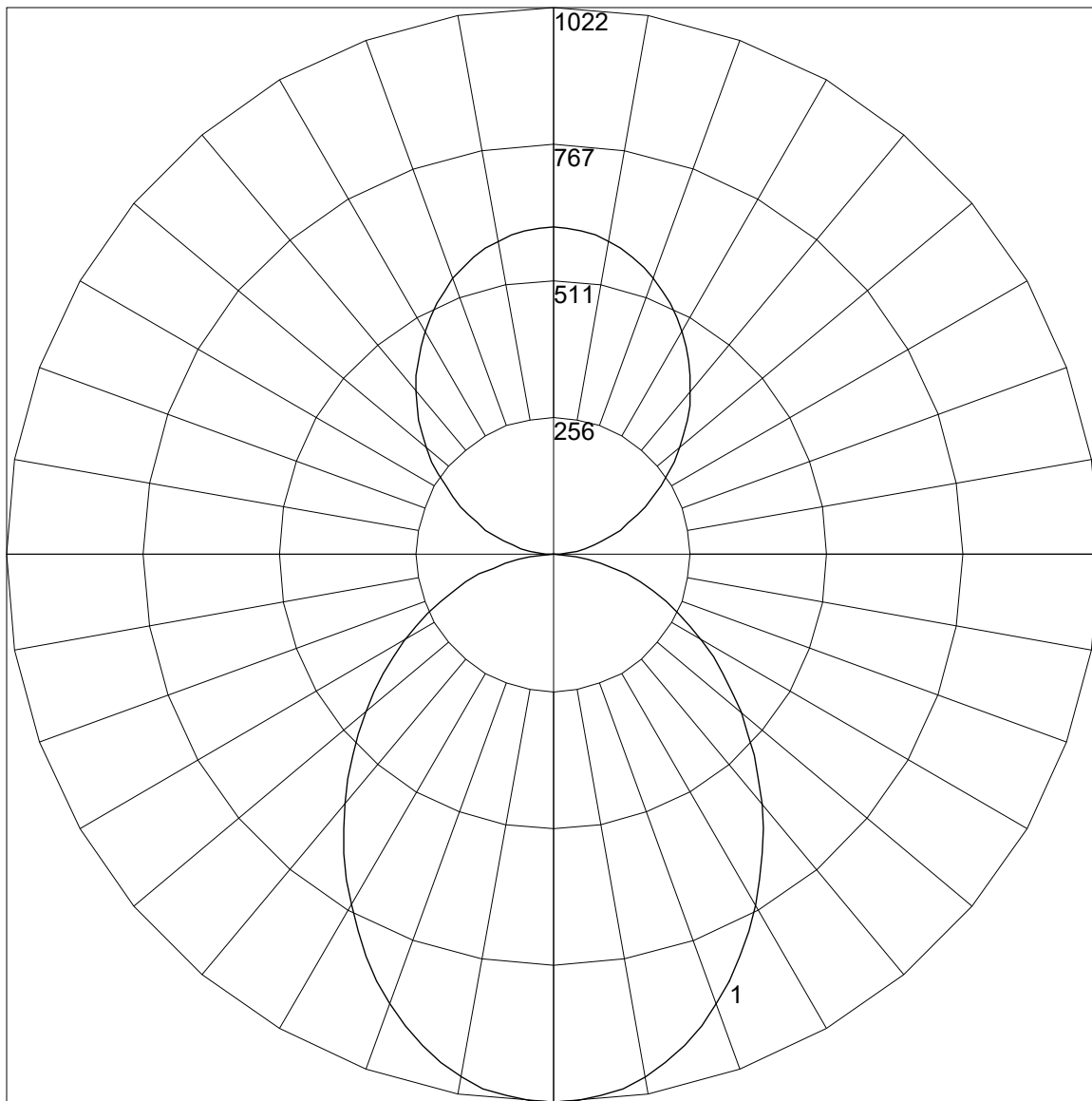
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	66	66	66	61
1	100	96	92	88	94	90	86	83	79	76	74	68	66	65	59	57	56	52
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	52	50	47	43
3	84	74	66	60	78	69	63	57	61	56	52	53	49	46	46	43	41	37
4	77	66	58	51	71	62	55	49	54	49	44	48	43	40	41	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	34	37	34	31	28
6	65	53	44	39	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	27	32	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	23	20	18
10	49	37	29	24	46	35	28	23	31	25	22	28	23	20	25	21	18	16

POLAR GRAPH



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