

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-B-V-835-WSO-DSO-ITL89033-ITL92993.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033 and ITL92993.012 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/27/17

[ISSUEDATE]08/04/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-4ft-B-V-835-WSO-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 54.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 55.6 WATTS

[OTHER]see www.finelite.com for source file ITL89033. 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

[_ABSOLUTE]LUMENS]5977

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5977
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	54.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.48
Spacing Criterion (Diagonal)	1.46
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	8324	10950	11939
55	7664	10407	11148
65	7013	9495	9988
75	6305	8267	8460
85	5540	6496	6305

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-V-835-WSO-DSO-ITL89033-ITL92993.012.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1250.000	1250.000	1250.000	1250.000	1250.000
2.5	1247.000	1248.000	1250.000	1251.000	1252.000
5.0	1241.000	1243.000	1249.000	1255.000	1257.000
7.5	1230.000	1236.000	1248.000	1260.000	1264.000
10.0	1217.000	1223.000	1245.000	1268.000	1275.000
12.5	1204.000	1209.000	1243.000	1279.000	1288.000
15.0	1187.000	1204.000	1242.000	1287.000	1298.000
17.5	1150.000	1168.000	1241.000	1290.000	1306.000
20.0	1119.000	1141.000	1239.000	1290.000	1308.000
22.5	1088.000	1114.000	1215.000	1286.000	1307.000
25.0	1053.000	1091.000	1197.000	1277.000	1300.000
27.5	1011.000	1058.000	1178.000	1264.000	1286.000
30.0	971.000	1021.000	1155.000	1245.000	1265.000
32.5	929.000	987.000	1133.000	1223.000	1239.000
35.0	887.000	950.000	1096.000	1193.000	1205.000
37.5	842.000	909.000	1060.000	1149.000	1165.000
40.0	800.000	867.000	1020.000	1103.000	1121.000
42.5	752.000	826.000	977.000	1057.000	1070.000
45.0	707.000	780.000	930.000	1002.000	1014.000
47.5	663.000	734.000	882.000	948.000	959.000
50.0	617.000	687.000	830.000	892.000	896.000
52.5	571.000	640.000	773.000	831.000	833.000
55.0	528.000	591.000	717.000	765.000	768.000
57.5	485.000	543.000	659.000	702.000	703.000
60.0	441.000	494.000	600.000	638.000	639.000
62.5	397.000	448.000	540.000	575.000	572.000
65.0	356.000	399.000	482.000	508.000	507.000
67.5	316.000	351.000	424.000	446.000	444.000
70.0	273.000	305.000	367.000	383.000	378.000
72.5	235.000	260.000	311.000	323.000	319.000
75.0	196.000	217.000	257.000	265.000	263.000
77.5	160.000	174.000	205.000	211.000	209.000
80.0	124.000	135.000	156.000	160.000	155.000
82.5	91.000	97.000	110.000	112.000	108.000
85.0	58.000	61.000	68.000	66.000	66.000
87.5	27.000	27.000	28.000	26.000	25.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	8.235	14.411	15.440	15.440	15.440
95.0	23.160	41.173	42.203	32.939	32.939
97.5	40.658	69.994	108.080	67.421	58.672
100.0	61.245	95.728	171.383	126.608	99.330
102.5	85.949	116.829	253.215	196.087	159.546
105.0	108.594	139.474	316.004	303.138	242.922
107.5	131.754	162.119	344.826	443.641	373.132
110.0	153.885	183.221	358.721	560.470	534.222
112.5	176.530	203.807	375.191	608.849	640.758
115.0	198.146	223.365	402.983	623.774	680.902
117.5	215.645	241.378	425.113	630.979	695.827
120.0	231.599	258.877	439.524	659.286	706.635
122.5	245.495	275.860	448.788	694.283	740.088
125.0	258.877	290.786	455.478	713.326	779.203
127.5	271.228	304.167	460.625	713.840	799.789
130.0	281.522	316.004	464.743	701.488	796.187
132.5	292.330	327.327	468.345	684.505	777.144

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-V-835-WSO-DSO-ITL89033-ITL92993.012.IES****CANDELA TABULATION - (Cont.)**

135.0	302.623	337.620	470.918	665.976	752.440
137.5	312.402	346.884	471.948	645.905	724.134
140.0	322.695	355.634	472.462	625.833	694.283
142.5	332.988	363.868	471.948	604.731	664.433
145.0	343.796	372.103	469.375	585.174	635.097
147.5	352.546	378.793	465.772	565.617	606.790
150.0	361.810	385.484	462.169	546.574	581.057
152.5	371.074	391.145	458.052	528.046	557.382
155.0	379.308	396.807	453.935	510.548	533.708
157.5	387.028	401.439	448.788	494.593	512.606
160.0	394.233	406.071	444.671	480.182	493.564
162.5	400.409	409.673	439.524	466.801	477.094
165.0	406.585	412.761	434.892	454.964	462.684
167.5	411.217	415.335	430.775	444.671	450.332
170.0	414.820	417.908	427.687	436.436	439.524
172.5	417.393	419.452	425.113	429.745	431.804
175.0	419.967	420.481	422.540	424.599	426.143
177.5	420.996	420.996	421.511	422.025	422.025
180.0	421.511	421.511	421.511	421.511	421.511

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-V-835-WSO-DSO-ITL89033-ITL92993.012.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	469.77	N.A.	7.90
0-30	1015.78	N.A.	17.00
0-40	1684.49	N.A.	28.20
0-60	2981.79	N.A.	49.90
0-80	3690.04	N.A.	61.70
0-90	3763.33	N.A.	63.00
10-90	3644.22	N.A.	61.00
20-40	1214.72	N.A.	20.30
20-50	1903.66	N.A.	31.80
40-70	1748.48	N.A.	29.30
60-80	708.25	N.A.	11.80
70-80	257.07	N.A.	4.30
80-90	73.29	N.A.	1.20
90-110	299.27	N.A.	5.00
90-120	712.88	N.A.	11.90
90-130	1151.42	N.A.	19.30
90-150	1839.42	N.A.	30.80
90-180	2214.13	N.A.	37.00
110-180	1914.87	N.A.	32.00
0-180	5977.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.12
10-20	350.65
20-30	546.01
30-40	668.71
40-50	688.94
50-60	608.36
60-70	451.18
70-80	257.07
80-90	73.29
90-100	49.87
100-110	249.40
110-120	413.61
120-130	438.54
130-140	386.98
140-150	301.02
150-160	210.75
160-170	123.47
170-180	40.50

IES INDOOR REPORT

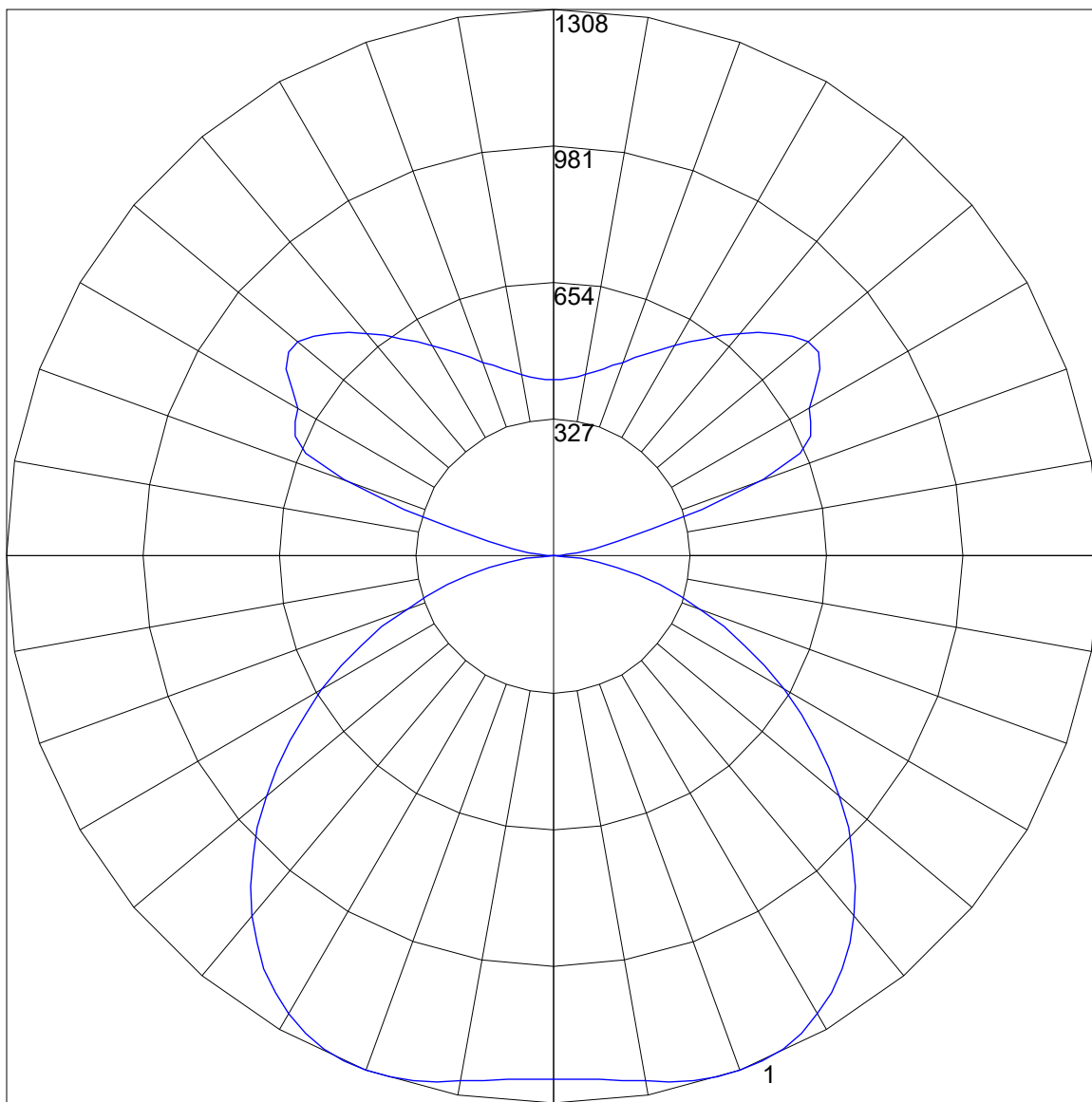
PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-V-835-WSO-DSO-ITL89033-ITL92993.012.IES

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	91	91	91	79	79	79	68	68	68	63
1	101	96	92	88	94	90	87	83	79	77	74	69	67	65	60	58	57	53
2	91	84	77	72	85	79	73	68	69	65	61	61	57	54	52	50	48	44
3	83	73	66	60	78	69	62	57	61	56	51	53	49	46	46	43	40	37
4	76	65	57	50	71	61	54	48	54	48	43	47	43	39	41	38	35	31
5	70	58	49	43	65	54	47	41	48	42	37	42	38	34	37	33	30	27
6	64	52	43	37	60	49	41	36	43	37	33	38	33	29	34	30	26	24
7	59	47	39	33	56	44	37	31	39	33	29	35	30	26	31	26	23	21
8	55	42	34	29	52	40	33	28	36	30	25	32	27	23	28	24	21	19
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	28	23	45	34	27	22	30	25	21	27	22	19	24	20	17	15

POLAR GRAPH



Maximum Candela = 1308 Located At Horizontal Angle = 90, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)