

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-ITL89033.012-GONIOPHOTOMETRY.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033.012-GONIOPHOTOMETRY Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/27/17

[ISSUEDATE]03/08/17

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 54.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.8 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]5890

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5890
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	54.9
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
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	10020	9926	9808
55	9464	9319	9217
65	8786	8629	8530
75	7881	7785	7720
85	6687	6400	6591

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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	1378.000	1378.000	1378.000	1378.000	1378.000
2.5	1376.000	1376.000	1376.000	1376.000	1376.000
5.0	1370.000	1370.000	1369.000	1370.000	1370.000
7.5	1361.000	1360.000	1360.000	1361.000	1361.000
10.0	1349.000	1346.000	1346.000	1348.000	1346.000
12.5	1333.000	1327.000	1331.000	1331.000	1327.000
15.0	1314.000	1304.000	1309.000	1310.000	1305.000
17.5	1291.000	1287.000	1285.000	1285.000	1279.000
20.0	1266.000	1250.000	1256.000	1255.000	1250.000
22.5	1231.000	1220.000	1231.000	1222.000	1218.000
25.0	1197.000	1184.000	1190.000	1187.000	1184.000
27.5	1161.000	1149.000	1157.000	1150.000	1146.000
30.0	1122.000	1110.000	1115.000	1111.000	1106.000
32.5	1081.000	1069.000	1073.000	1069.000	1064.000
35.0	1038.000	1027.000	1030.000	1025.000	1020.000
37.5	992.000	981.000	985.000	981.000	975.000
40.0	947.000	936.000	937.000	933.000	928.000
42.5	899.000	890.000	891.000	885.000	881.000
45.0	851.000	841.000	843.000	837.000	833.000
47.5	802.000	791.000	793.000	785.000	784.000
50.0	752.000	743.000	743.000	737.000	734.000
52.5	703.000	693.000	693.000	687.000	685.000
55.0	652.000	643.000	642.000	636.000	635.000
57.5	600.000	591.000	591.000	586.000	584.000
60.0	549.000	540.000	540.000	535.000	534.000
62.5	498.000	489.000	489.000	485.000	483.000
65.0	446.000	437.000	438.000	435.000	433.000
67.5	394.000	386.000	387.000	386.000	383.000
70.0	343.000	337.000	337.000	336.000	334.000
72.5	293.000	288.000	288.000	288.000	286.000
75.0	245.000	240.000	242.000	241.000	240.000
77.5	198.000	194.000	196.000	195.000	195.000
80.0	153.000	151.000	152.000	151.000	151.000
82.5	111.000	109.000	109.000	109.000	111.000
85.0	70.000	68.000	67.000	67.000	69.000
87.5	30.000	29.000	29.000	28.000	29.000
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-ITL89033.012-GONIOPHOTOMETRY.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-ITL89033.012-GONIOPHOTOMETRY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	498.95	N.A.	8.50
0-30	1046.47	N.A.	17.80
0-40	1689.07	N.A.	28.70
0-60	2910.49	N.A.	49.40
0-80	3599.34	N.A.	61.10
0-90	3676.06	N.A.	62.40
10-90	3546.02	N.A.	60.20
20-40	1190.11	N.A.	20.20
20-50	1838.38	N.A.	31.20
40-70	1654.6	N.A.	28.10
60-80	688.85	N.A.	11.70
70-80	255.68	N.A.	4.30
80-90	76.72	N.A.	1.30
90-110	299.27	N.A.	5.10
90-120	712.88	N.A.	12.10
90-130	1151.42	N.A.	19.50
90-150	1839.42	N.A.	31.20
90-180	2214.13	N.A.	37.60
110-180	1914.87	N.A.	32.50
0-180	5890.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.04
10-20	368.91
20-30	547.51
30-40	642.60
40-50	648.26
50-60	573.16
60-70	433.18
70-80	255.68
80-90	76.72
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

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

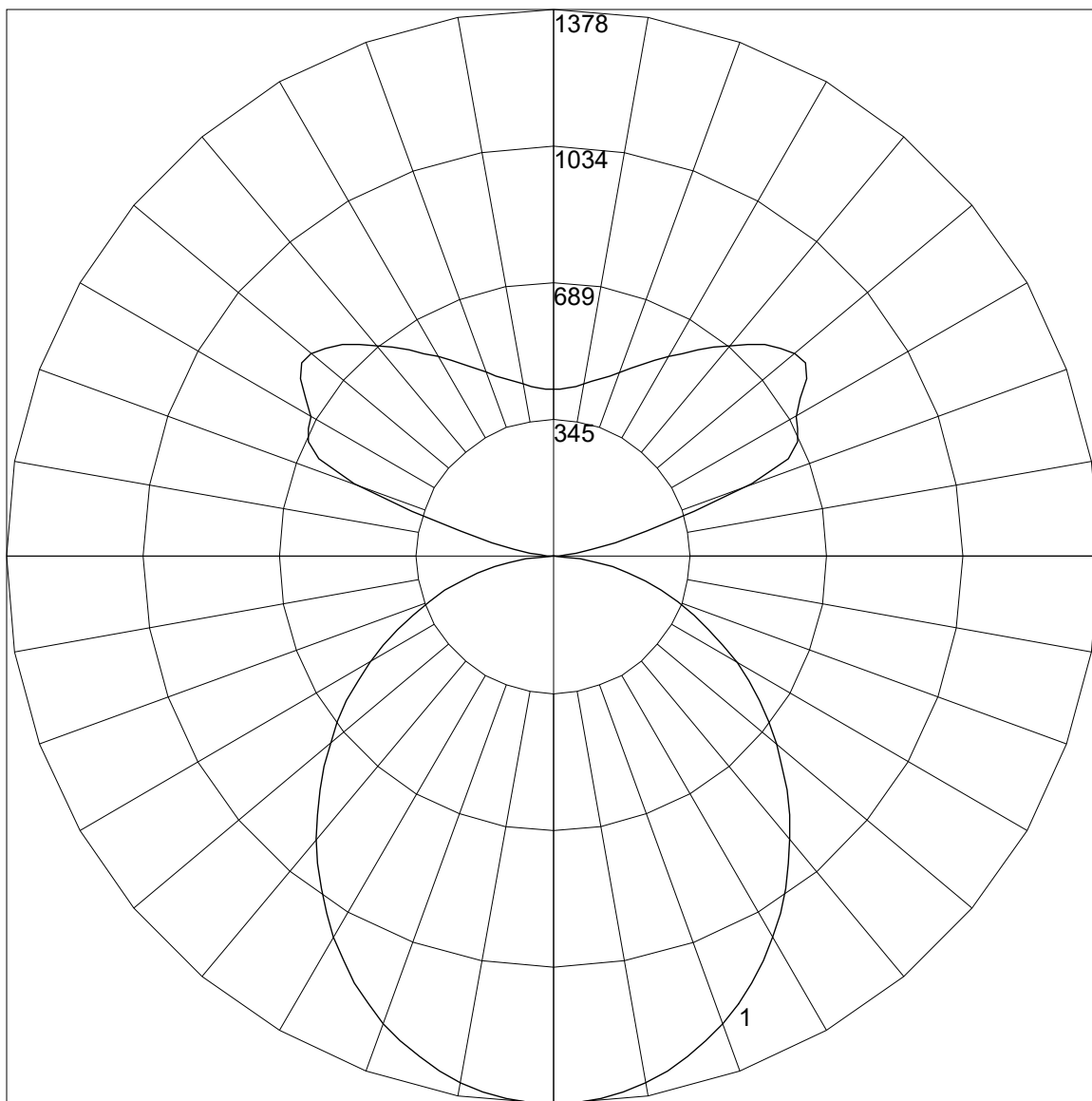
Effective Floor Cavity Reflectance 0.20

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	68	68	68	62
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	59	58	57	52
2	91	84	77	72	85	79	73	68	69	65	61	60	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	51	71	61	54	48	54	48	44	47	43	39	41	38	35	31
5	70	58	50	43	65	55	47	42	48	42	38	43	38	34	37	33	30	27
6	65	52	44	38	60	49	42	36	44	37	33	38	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	33	29	35	30	26	31	27	24	21
8	55	43	35	29	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	15

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POLAR GRAPH



Maximum Candela = 1378 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (90 - 270)