

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-H-835-WSO-ITL89033.011-GONIOPHOTOMETRY.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033.011-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-H-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.3 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.3 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]5073

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5073
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	46.3
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)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7793	7720	7628
55	7361	7248	7169
65	6834	6711	6634
75	6130	6055	6004
85	5201	4978	5126

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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	1071.759	1071.759	1071.759	1071.759	1071.759
2.5	1070.203	1070.203	1070.203	1070.203	1070.203
5.0	1065.537	1065.537	1064.759	1065.537	1065.537
7.5	1058.537	1057.759	1057.759	1058.537	1058.537
10.0	1049.204	1046.870	1046.870	1048.426	1046.870
12.5	1036.759	1032.093	1035.204	1035.204	1032.093
15.0	1021.982	1014.204	1018.093	1018.871	1014.982
17.5	1004.093	1000.982	999.427	999.427	994.760
20.0	984.649	972.205	976.872	976.094	972.205
22.5	957.428	948.872	957.428	950.428	947.317
25.0	930.984	920.873	925.539	923.206	920.873
27.5	902.984	893.651	899.873	894.429	891.318
30.0	872.651	863.318	867.207	864.096	860.207
32.5	840.763	831.430	834.541	831.430	827.541
35.0	807.319	798.764	801.097	797.208	793.319
37.5	771.542	762.986	766.097	762.986	758.320
40.0	736.543	727.987	728.765	725.654	721.765
42.5	699.210	692.210	692.988	688.321	685.210
45.0	661.877	654.100	655.655	650.989	647.877
47.5	623.767	615.211	616.767	610.545	609.767
50.0	584.879	577.879	577.879	573.212	570.879
52.5	546.768	538.990	538.990	534.324	532.768
55.0	507.102	500.102	499.325	494.658	493.880
57.5	466.658	459.659	459.659	455.770	454.214
60.0	426.992	419.993	419.993	416.104	415.326
62.5	387.327	380.327	380.327	377.216	375.660
65.0	346.883	339.883	340.661	338.327	336.772
67.5	306.439	300.217	300.995	300.217	297.884
70.0	266.773	262.106	262.106	261.329	259.773
72.5	227.885	223.996	223.996	223.996	222.440
75.0	190.552	186.663	188.219	187.441	186.663
77.5	153.997	150.886	152.442	151.664	151.664
80.0	118.998	117.442	118.220	117.442	117.442
82.5	86.332	84.776	84.776	84.776	86.332
85.0	54.444	52.888	52.110	52.110	53.666
87.5	23.333	22.555	22.555	21.777	22.555
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-H-835-WSO-ITL89033.011-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-H-835-WSO-ITL89033.011-GONIOPHOTOMETRY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	388.07	N.A.	7.60
0-30	813.91	N.A.	16.00
0-40	1313.69	N.A.	25.90
0-60	2263.67	N.A.	44.60
0-80	2799.44	N.A.	55.20
0-90	2859.11	N.A.	56.40
10-90	2757.96	N.A.	54.40
20-40	925.63	N.A.	18.20
20-50	1429.82	N.A.	28.20
40-70	1286.89	N.A.	25.40
60-80	535.77	N.A.	10.60
70-80	198.86	N.A.	3.90
80-90	59.67	N.A.	1.20
90-110	299.27	N.A.	5.90
90-120	712.88	N.A.	14.10
90-130	1151.42	N.A.	22.70
90-150	1839.42	N.A.	36.30
90-180	2214.13	N.A.	43.60
110-180	1914.87	N.A.	37.70
0-180	5073.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.14
10-20	286.93
20-30	425.84
30-40	499.79
40-50	504.20
50-60	445.78
60-70	336.91
70-80	198.86
80-90	59.67
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

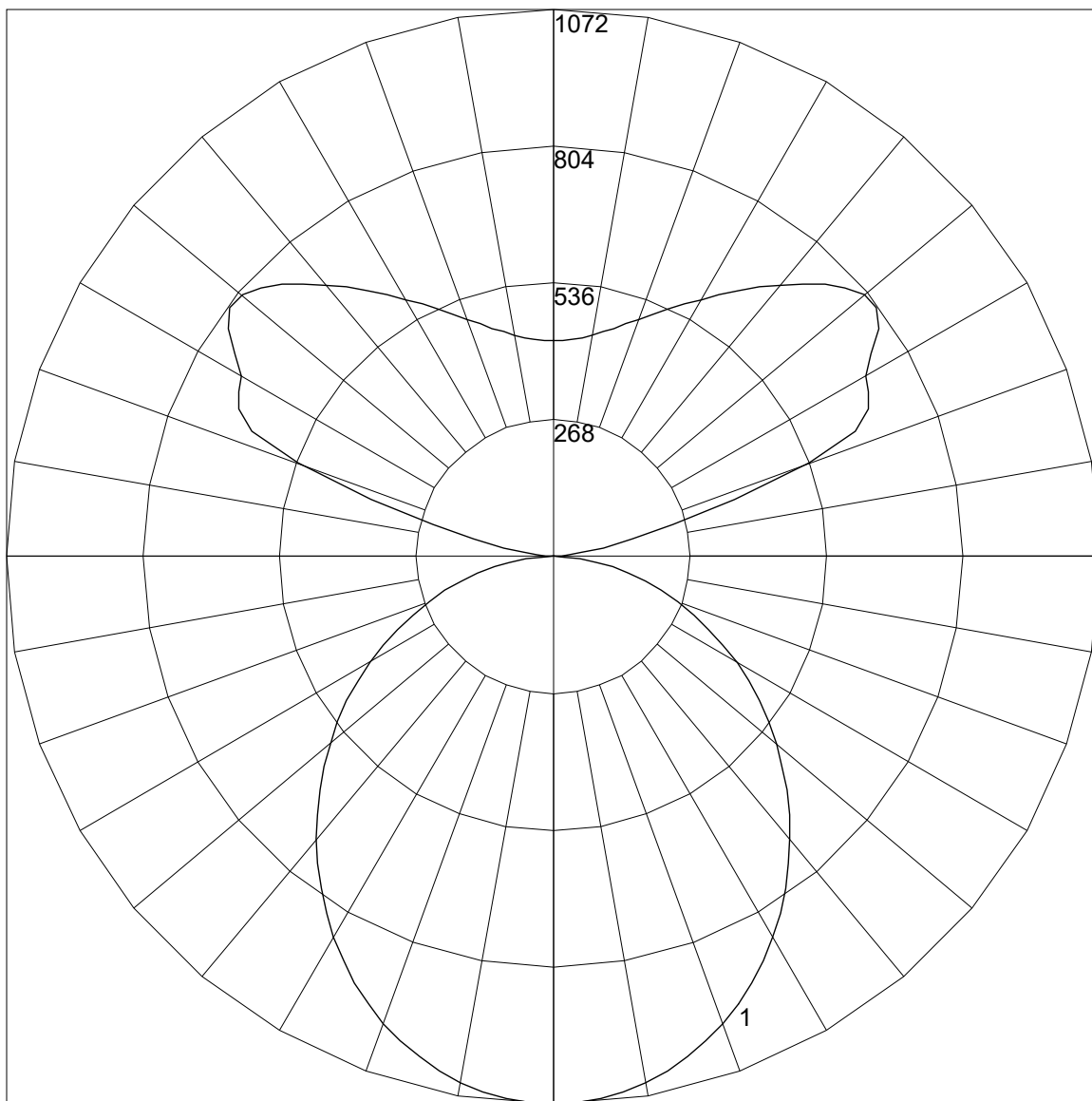
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	55	53	52	47
2	90	83	76	71	84	77	71	67	66	62	59	57	54	51	48	46	44	39
3	82	72	65	59	76	68	61	56	59	53	49	50	46	43	42	40	37	33
4	75	64	56	50	70	60	53	47	52	46	42	45	40	37	38	35	32	28
5	69	57	49	43	64	53	46	41	47	41	36	40	36	32	34	31	28	25
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	24	22
7	59	46	38	33	55	43	36	31	38	32	28	33	28	25	28	25	22	19
8	55	42	34	29	51	40	32	27	35	29	25	30	25	22	26	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	15
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

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POLAR GRAPH



Maximum Candela = 1071.759 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)