

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-B-835-WSO-ITL89033.002-GONIOPHOTOMETRY.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033.002-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-B-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 36.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 38.9 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]4106

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4106
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	36.5
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	5157	5108	5048
55	4871	4796	4744
65	4522	4441	4390
75	4056	4006	3973
85	3441	3294	3392

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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	709.209	709.209	709.209	709.209	709.209
2.5	708.179	708.179	708.179	708.179	708.179
5.0	705.091	705.091	704.577	705.091	705.091
7.5	700.459	699.945	699.945	700.459	700.459
10.0	694.283	692.740	692.740	693.769	692.740
12.5	686.049	682.961	685.020	685.020	682.961
15.0	676.270	671.124	673.697	674.212	671.638
17.5	664.433	662.374	661.345	661.345	658.257
20.0	651.566	643.332	646.420	645.905	643.332
22.5	633.553	627.892	633.553	628.921	626.862
25.0	616.054	609.364	612.452	610.908	609.364
27.5	597.526	591.350	595.468	591.865	589.806
30.0	577.454	571.278	573.852	571.793	569.220
32.5	556.353	550.177	552.236	550.177	547.604
35.0	534.223	528.561	530.105	527.532	524.959
37.5	510.548	504.887	506.945	504.887	501.799
40.0	487.388	481.727	482.241	480.183	477.609
42.5	462.684	458.052	458.567	455.479	453.420
45.0	437.980	432.834	433.863	430.775	428.716
47.5	412.762	407.100	408.130	404.012	403.498
50.0	387.028	382.396	382.396	379.308	377.764
52.5	361.810	356.663	356.663	353.575	352.546
55.0	335.562	330.930	330.415	327.327	326.812
57.5	308.799	304.167	304.167	301.594	300.565
60.0	282.551	277.919	277.919	275.346	274.831
62.5	256.303	251.671	251.671	249.613	248.583
65.0	229.541	224.909	225.423	223.879	222.850
67.5	202.778	198.661	199.175	198.661	197.117
70.0	176.530	173.442	173.442	172.928	171.898
72.5	150.797	148.224	148.224	148.224	147.194
75.0	126.093	123.520	124.549	124.034	123.520
77.5	101.904	99.845	100.874	100.360	100.360
80.0	78.744	77.714	78.229	77.714	77.714
82.5	57.128	56.099	56.099	56.099	57.128
85.0	36.027	34.997	34.483	34.483	35.512
87.5	15.440	14.925	14.925	14.411	14.925
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	40.659	69.994	108.080	67.421	58.672
100.0	61.245	95.728	171.384	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	162.120	344.826	443.641	373.132
110.0	153.885	183.221	358.722	560.471	534.223
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	425.114	630.980	695.827
120.0	231.599	258.877	439.524	659.286	706.635
122.5	245.495	275.861	448.788	694.283	740.089
125.0	258.877	290.786	455.479	713.326	779.203
127.5	271.229	304.167	460.625	713.841	799.790
130.0	281.522	316.004	464.743	701.489	796.187
132.5	292.330	327.327	468.345	684.505	777.145

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-835-WSO-ITL89033.002-GONIOPHOTOMETRY.IES****CANDELA TABULATION - (Cont.)**

135.0	302.623	337.620	470.919	665.977	752.441
137.5	312.402	346.884	471.948	645.905	724.134
140.0	322.695	355.634	472.463	625.833	694.283
142.5	332.988	363.868	471.948	604.732	664.433
145.0	343.796	372.103	469.375	585.174	635.097
147.5	352.546	378.794	465.772	565.617	606.790
150.0	361.810	385.484	462.169	546.575	581.057
152.5	371.074	391.146	458.052	528.047	557.383
155.0	379.308	396.807	453.935	510.548	533.708
157.5	387.028	401.439	448.788	494.593	512.607
160.0	394.234	406.071	444.671	480.183	493.564
162.5	400.410	409.674	439.524	466.801	477.095
165.0	406.586	412.762	434.892	454.964	462.684
167.5	411.218	415.335	430.775	444.671	450.332
170.0	414.820	417.908	427.687	436.436	439.524
172.5	417.394	419.452	425.114	429.746	431.804
175.0	419.967	420.482	422.540	424.599	426.143
177.5	420.996	420.996	421.511	422.026	422.026
180.0	421.511	421.511	421.511	421.511	421.511

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-835-WSO-ITL89033.002-GONIOPHOTOMETRY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	256.79	N.A.	6.30
0-30	538.58	N.A.	13.10
0-40	869.30	N.A.	21.20
0-60	1497.93	N.A.	36.50
0-80	1852.46	N.A.	45.10
0-90	1891.94	N.A.	46.10
10-90	1825.01	N.A.	44.40
20-40	612.51	N.A.	14.90
20-50	946.15	N.A.	23.00
40-70	851.57	N.A.	20.70
60-80	354.53	N.A.	8.60
70-80	131.59	N.A.	3.20
80-90	39.48	N.A.	1.00
90-110	299.27	N.A.	7.30
90-120	712.88	N.A.	17.40
90-130	1151.42	N.A.	28.00
90-150	1839.42	N.A.	44.80
90-180	2214.13	N.A.	53.90
110-180	1914.87	N.A.	46.60
0-180	4106.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.93
10-20	189.87
20-30	281.79
30-40	330.72
40-50	333.64
50-60	294.99
60-70	222.94
70-80	131.59
80-90	39.48
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

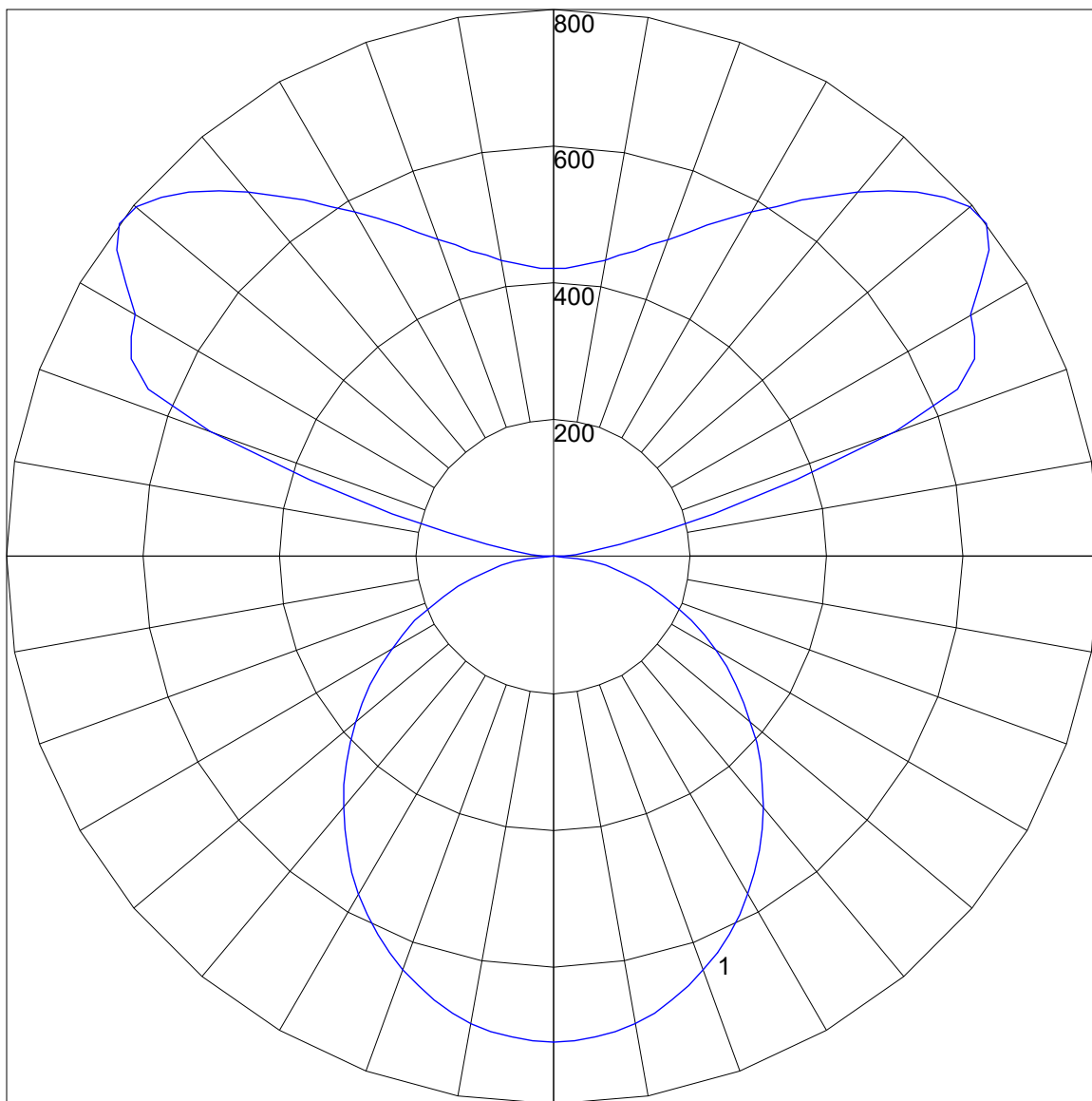
Effective Floor Cavity Reflectance 0.20

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53	46
1	97	92	89	85	89	85	82	79	71	69	66	58	56	55	46	45	44	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	41	39	36	33	31	27
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	48	42	62	51	44	39	43	38	34	36	32	29	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

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POLAR GRAPH



Maximum Candela = 799.79 Located At Horizontal Angle = 90, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)