

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-H-H-835-WSO-ITL89033.003-GONIOPHOTOMETRY.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033.003-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-H-H-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 56.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 57.7 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]6205

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6205
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	56.2
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	976.871	976.094	972.205
22.5	957.427	948.872	957.427	950.427	947.316
25.0	930.983	920.872	925.539	923.206	920.872
27.5	902.984	893.651	899.873	894.428	891.317
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	736.542	727.987	728.765	725.654	721.765
42.5	699.210	692.210	692.988	688.321	685.210
45.0	661.877	654.099	655.655	650.988	647.877
47.5	623.767	615.211	616.767	610.545	609.767
50.0	584.878	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	499.324	494.658	493.880
57.5	466.658	459.658	459.658	455.770	454.214
60.0	426.992	419.993	419.993	416.104	415.326
62.5	387.326	380.327	380.327	377.215	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	54.443	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	12.444	21.777	23.333	23.333	23.333
95.0	34.999	62.221	63.777	49.777	49.777
97.5	61.443	105.776	163.330	101.887	88.665
100.0	92.554	144.664	258.995	191.330	150.108
102.5	129.887	176.552	382.660	296.328	241.107
105.0	164.108	210.774	477.547	458.103	367.105
107.5	199.108	244.996	521.102	670.432	563.879
110.0	232.551	276.884	542.101	846.985	807.319
112.5	266.773	307.995	566.990	920.095	968.316
115.0	299.439	337.550	608.989	942.650	1028.982
117.5	325.883	364.771	642.433	953.539	1051.537
120.0	349.994	391.215	664.210	996.316	1067.870
122.5	370.993	416.881	678.210	1049.204	1118.424
125.0	391.215	439.437	688.321	1077.981	1177.535
127.5	409.882	459.658	696.099	1078.759	1208.645
130.0	425.437	477.547	702.321	1060.092	1203.201
132.5	441.770	494.658	707.765	1034.426	1174.423

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-H-835-WSO-ITL89033.003-GONIOPHOTOMETRY.IES****CANDELA TABULATION - (Cont.)**

135.0	457.325	510.213	711.654	1006.426	1137.091
137.5	472.103	524.213	713.209	976.094	1094.314
140.0	487.658	537.435	713.987	945.761	1049.204
142.5	503.213	549.879	713.209	913.873	1004.093
145.0	519.546	562.323	709.321	884.318	959.761
147.5	532.768	572.434	703.876	854.763	916.984
150.0	546.768	582.545	698.432	825.985	878.095
152.5	560.768	591.101	692.210	797.986	842.318
155.0	573.212	599.656	685.988	771.542	806.541
157.5	584.878	606.656	678.210	747.431	774.653
160.0	595.767	613.656	671.988	725.654	745.876
162.5	605.100	619.100	664.210	705.432	720.987
165.0	614.433	623.767	657.210	687.543	699.210
167.5	621.433	627.655	650.988	671.988	680.543
170.0	626.878	631.544	646.322	659.544	664.210
172.5	630.767	633.878	642.433	649.433	652.544
175.0	634.655	635.433	638.544	641.655	643.989
177.5	636.211	636.211	636.989	637.766	637.766
180.0	636.989	636.989	636.989	636.989	636.989

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-H-835-WSO-ITL89033.003-GONIOPHOTOMETRY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	388.07	N.A.	6.30
0-30	813.91	N.A.	13.10
0-40	1313.69	N.A.	21.20
0-60	2263.67	N.A.	36.50
0-80	2799.44	N.A.	45.10
0-90	2859.11	N.A.	46.10
10-90	2757.96	N.A.	44.40
20-40	925.63	N.A.	14.90
20-50	1429.82	N.A.	23.00
40-70	1286.89	N.A.	20.70
60-80	535.77	N.A.	8.60
70-80	198.86	N.A.	3.20
80-90	59.67	N.A.	1.00
90-110	452.25	N.A.	7.30
90-120	1077.31	N.A.	17.40
90-130	1740.03	N.A.	28.00
90-150	2779.74	N.A.	44.80
90-180	3346.01	N.A.	53.90
110-180	2893.75	N.A.	46.60
0-180	6205.11	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	75.36
100-110	376.89
110-120	625.05
120-130	662.72
130-140	584.81
140-150	454.90
150-160	318.48
160-170	186.58
170-180	61.20

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

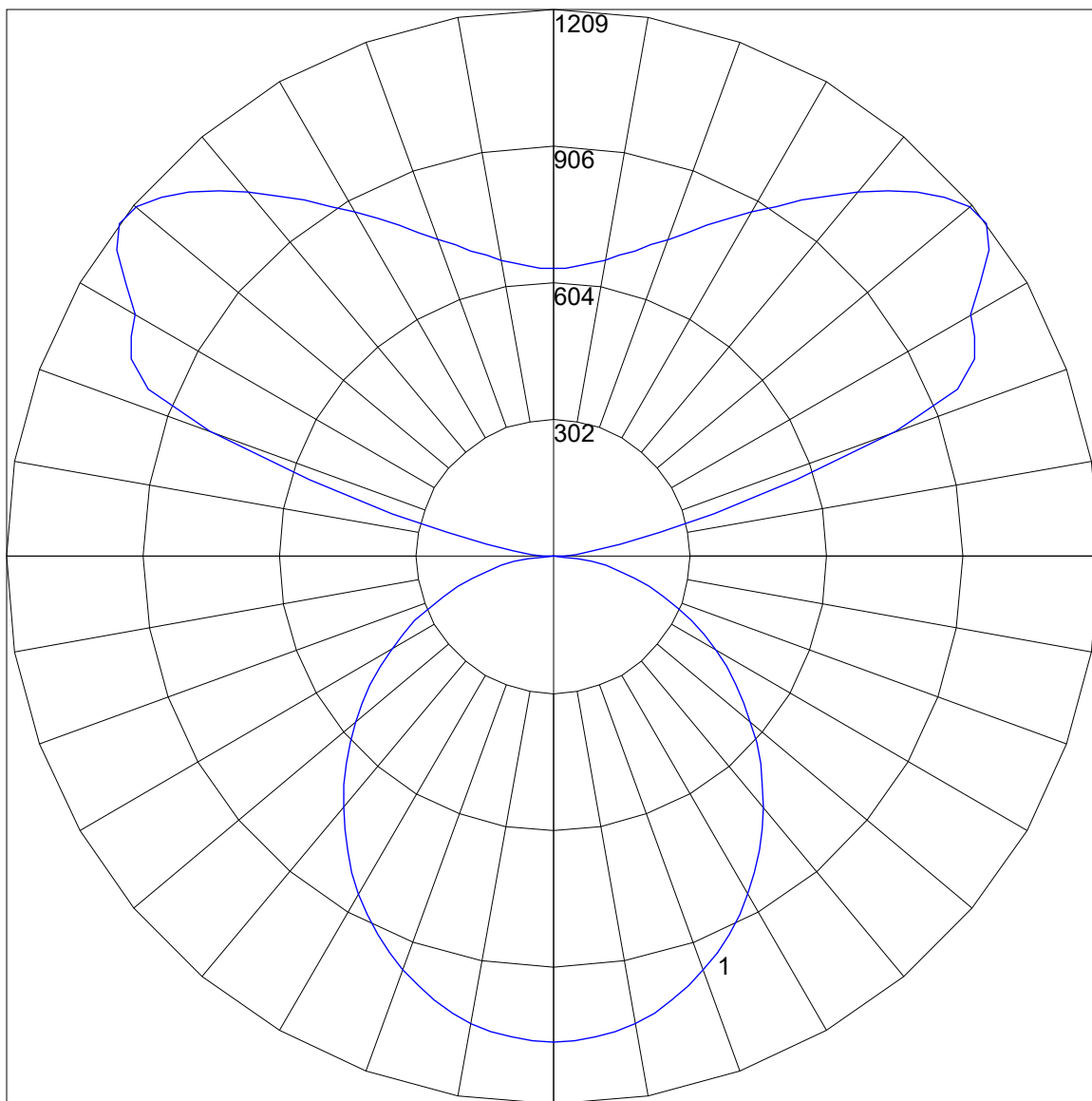
Effective Floor Cavity Reflectance 0.20

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 = 1208.645 Located At Horizontal Angle = 90, Vertical Angle = 127.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)