

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-V-835-WSO-ITL89033.009-GONIOPHOTOMETRY.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033.009-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-V-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 64.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 66.2 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]7022

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7022
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	64.8
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	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	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	670.433	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	416.882	678.210	1049.204	1118.425
125.0	391.215	439.437	688.321	1077.981	1177.535
127.5	409.882	459.659	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	1174.424

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-835-WSO-ITL89033.009-GONIOPHOTOMETRY.IES****CANDELA TABULATION - (Cont.)**

135.0	457.325	510.213	711.654	1006.427	1137.091
137.5	472.103	524.213	713.210	976.094	1094.314
140.0	487.658	537.435	713.987	945.761	1049.204
142.5	503.213	549.879	713.210	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	878.096
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	584.879	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	657.211	687.543	699.210
167.5	621.433	627.655	650.989	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-V-835-WSO-ITL89033.009-GONIOPHOTOMETRY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	498.95	N.A.	7.10
0-30	1046.47	N.A.	14.90
0-40	1689.07	N.A.	24.10
0-60	2910.49	N.A.	41.40
0-80	3599.34	N.A.	51.30
0-90	3676.06	N.A.	52.40
10-90	3546.02	N.A.	50.50
20-40	1190.11	N.A.	16.90
20-50	1838.38	N.A.	26.20
40-70	1654.6	N.A.	23.60
60-80	688.85	N.A.	9.80
70-80	255.68	N.A.	3.60
80-90	76.72	N.A.	1.10
90-110	452.25	N.A.	6.40
90-120	1077.31	N.A.	15.30
90-130	1740.03	N.A.	24.80
90-150	2779.74	N.A.	39.60
90-180	3346.01	N.A.	47.60
110-180	2893.75	N.A.	41.20
0-180	7022.07	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	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

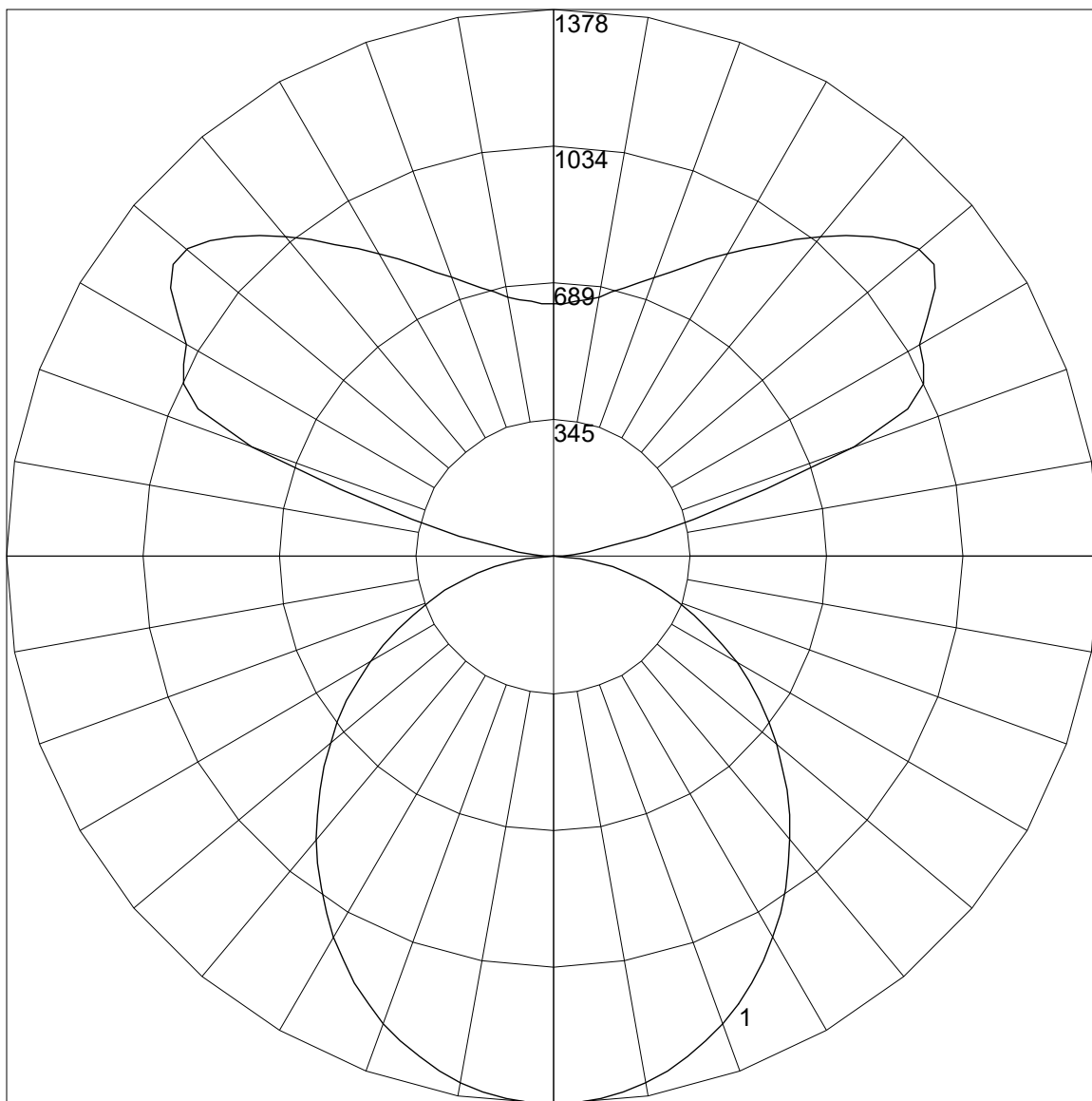
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	98	94	90	86	91	87	83	80	74	72	69	62	60	59	51	50	49	44
2	89	82	76	70	82	76	70	66	65	61	57	55	52	49	45	43	41	37
3	81	72	64	58	75	67	60	55	57	52	48	48	44	41	40	37	35	31
4	74	64	56	49	69	59	52	47	51	45	41	43	39	35	36	33	30	26
5	68	57	48	42	63	53	45	40	45	40	35	38	34	31	32	29	26	23
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	26	23	20
7	58	46	38	32	54	43	36	30	37	31	27	32	27	24	26	23	20	18
8	54	42	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	36	29	24	31	25	21	27	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	25	20	17	21	17	15	13

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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)