

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-DSO-ITL89033-ITL92993.009.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033 and ITL92993.009 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/27/17

[ISSUEDATE]08/04/2020

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 64.3 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 65.0 WATTS

[OTHER]see www.finelite.com for source files ITL89033 and ITL92993. 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]7109

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7109
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	64.3
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	8324	10950	11939
55	7664	10407	11148
65	7013	9495	9988
75	6305	8267	8460
85	5540	6496	6305

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-835-WSO-DSO-ITL89033-ITL92993.009.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1250.000	1250.000	1250.000	1250.000	1250.000
2.5	1247.000	1248.000	1250.000	1251.000	1252.000
5.0	1241.000	1243.000	1249.000	1255.000	1257.000
7.5	1230.000	1236.000	1248.000	1260.000	1264.000
10.0	1217.000	1223.000	1245.000	1268.000	1275.000
12.5	1204.000	1209.000	1243.000	1279.000	1288.000
15.0	1187.000	1204.000	1242.000	1287.000	1298.000
17.5	1150.000	1168.000	1241.000	1290.000	1306.000
20.0	1119.000	1141.000	1239.000	1290.000	1308.000
22.5	1088.000	1114.000	1215.000	1286.000	1307.000
25.0	1053.000	1091.000	1197.000	1277.000	1300.000
27.5	1011.000	1058.000	1178.000	1264.000	1286.000
30.0	971.000	1021.000	1155.000	1245.000	1265.000
32.5	929.000	987.000	1133.000	1223.000	1239.000
35.0	887.000	950.000	1096.000	1193.000	1205.000
37.5	842.000	909.000	1060.000	1149.000	1165.000
40.0	800.000	867.000	1020.000	1103.000	1121.000
42.5	752.000	826.000	977.000	1057.000	1070.000
45.0	707.000	780.000	930.000	1002.000	1014.000
47.5	663.000	734.000	882.000	948.000	959.000
50.0	617.000	687.000	830.000	892.000	896.000
52.5	571.000	640.000	773.000	831.000	833.000
55.0	528.000	591.000	717.000	765.000	768.000
57.5	485.000	543.000	659.000	702.000	703.000
60.0	441.000	494.000	600.000	638.000	639.000
62.5	397.000	448.000	540.000	575.000	572.000
65.0	356.000	399.000	482.000	508.000	507.000
67.5	316.000	351.000	424.000	446.000	444.000
70.0	273.000	305.000	367.000	383.000	378.000
72.5	235.000	260.000	311.000	323.000	319.000
75.0	196.000	217.000	257.000	265.000	263.000
77.5	160.000	174.000	205.000	211.000	209.000
80.0	124.000	135.000	156.000	160.000	155.000
82.5	91.000	97.000	110.000	112.000	108.000
85.0	58.000	61.000	68.000	66.000	66.000
87.5	27.000	27.000	28.000	26.000	25.000
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-DSO-ITL89033-ITL92993.009.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-DSO-ITL89033-ITL92993.009.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	469.77	N.A.	6.60
0-30	1015.78	N.A.	14.30
0-40	1684.49	N.A.	23.70
0-60	2981.79	N.A.	41.90
0-80	3690.04	N.A.	51.90
0-90	3763.33	N.A.	52.90
10-90	3644.22	N.A.	51.30
20-40	1214.72	N.A.	17.10
20-50	1903.66	N.A.	26.80
40-70	1748.48	N.A.	24.60
60-80	708.25	N.A.	10.00
70-80	257.07	N.A.	3.60
80-90	73.29	N.A.	1.00
90-110	452.25	N.A.	6.40
90-120	1077.31	N.A.	15.20
90-130	1740.03	N.A.	24.50
90-150	2779.74	N.A.	39.10
90-180	3346.01	N.A.	47.10
110-180	2893.75	N.A.	40.70
0-180	7109.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.12
10-20	350.65
20-30	546.01
30-40	668.71
40-50	688.94
50-60	608.36
60-70	451.18
70-80	257.07
80-90	73.29
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-835-WSO-DSO-ITL89033-ITL92993.009.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

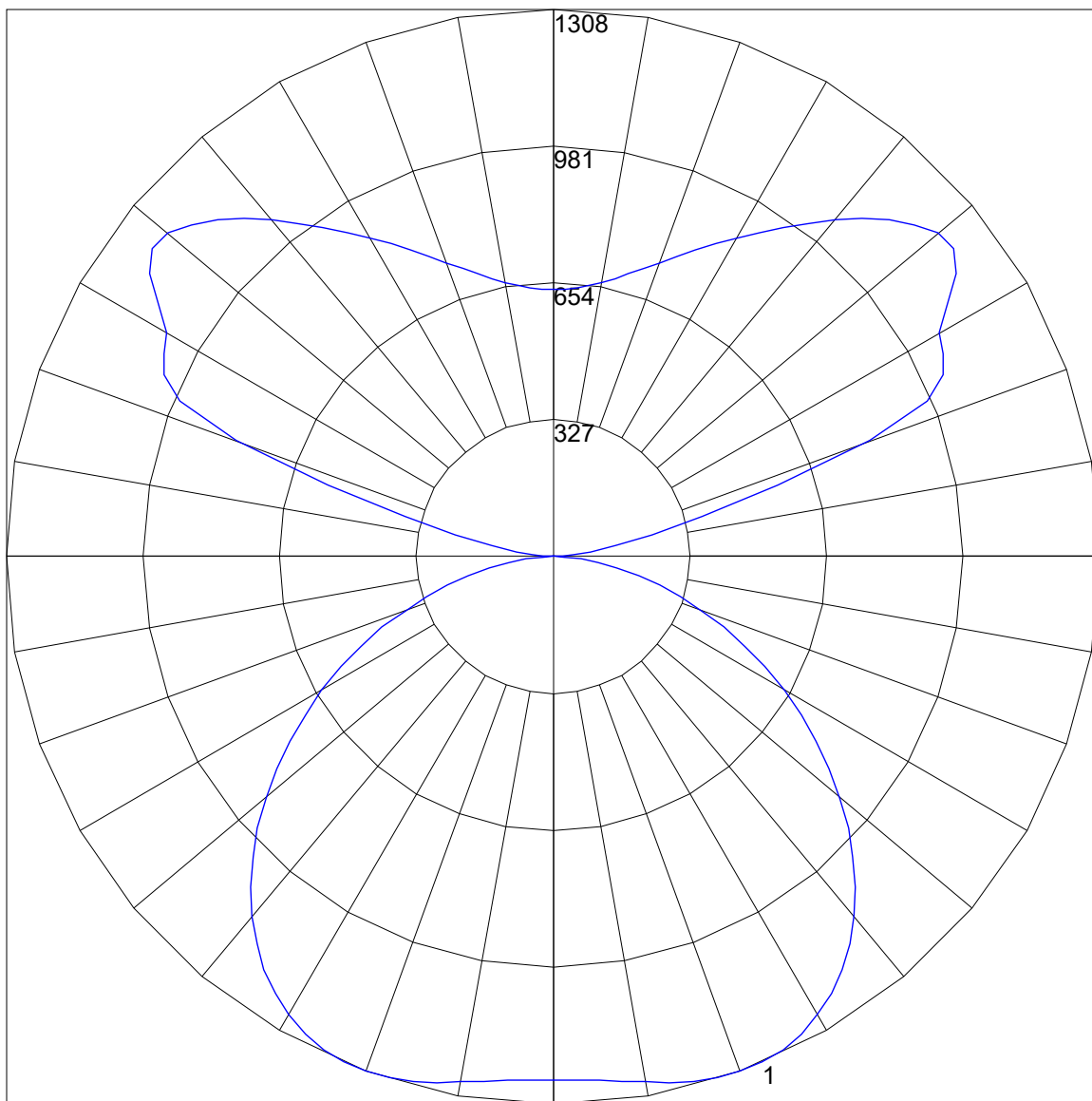
Effective Floor Cavity Reflectance 0.20

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	59	59	59	53
1	98	94	90	86	91	87	84	81	74	72	70	63	61	59	52	51	49	44
2	89	82	76	70	82	76	71	66	65	61	57	55	52	49	45	43	41	37
3	81	72	64	58	75	67	60	55	57	52	48	48	45	41	40	37	35	31
4	74	63	55	49	69	59	52	46	51	45	41	43	39	35	36	33	30	26
5	68	56	48	42	63	53	45	40	45	39	35	38	34	30	32	29	26	23
6	63	51	42	36	58	47	40	34	41	35	30	35	30	27	29	26	23	20
7	58	46	37	32	54	43	35	30	37	31	27	31	27	23	26	23	20	18
8	54	41	33	28	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	21	17	15	13

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-835-WSO-DSO-ITL89033-ITL92993.009.IES

POLAR GRAPH



Maximum Candela = 1308 Located At Horizontal Angle = 90, Vertical Angle = 20

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