

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-V-H-835-WSO-DAO-ITL89033-ITL94331.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033-ITL94331.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/08/17

[ISSUEDATE]08/27/2021

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 65.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 67.1 WATTS

[_ABSOLUTE]LUMENS]7323

[_CONVERT] Photometric web converted from original test data

[OTHER]see www.finelite.com for source files ITL89033 and ITL94331. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7323
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	65.5
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	9332	9634	7986
55	8016	8569	7101
65	6711	7294	6190
75	5404	5980	5354
85	4235	4607	4681

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155
2.5	1232.045	1230.489	1224.267	1215.711	1206.377	1195.488	1187.710	1181.487	1179.154
5.0	1251.490	1248.379	1237.489	1220.378	1200.155	1180.709	1162.042	1151.931	1148.042
7.5	1266.268	1260.823	1246.045	1220.378	1190.043	1159.709	1134.041	1120.041	1114.596
10.0	1276.380	1271.713	1249.157	1215.711	1177.598	1136.374	1106.040	1086.595	1077.261
12.5	1279.491	1275.602	1249.157	1206.377	1162.820	1109.929	1075.706	1051.594	1041.482
15.0	1276.380	1271.713	1243.712	1192.377	1141.819	1080.373	1043.038	1015.815	1004.925
17.5	1266.268	1262.379	1233.600	1176.043	1117.707	1049.260	1005.703	980.036	966.813
20.0	1249.157	1246.823	1218.044	1152.708	1091.262	1014.259	969.146	942.701	931.034
22.5	1225.822	1223.489	1197.043	1128.597	1063.261	977.702	934.145	905.366	896.810
25.0	1196.266	1195.488	1171.376	1100.595	1029.037	941.145	896.810	870.365	863.365
27.5	1161.264	1161.264	1139.486	1067.928	993.258	903.033	857.142	836.141	827.586
30.0	1120.819	1123.152	1103.707	1032.149	953.590	861.809	821.363	801.140	795.696
32.5	1075.706	1078.817	1064.039	994.814	912.366	822.141	783.251	766.139	763.806
35.0	1022.815	1030.593	1022.037	952.034	868.032	780.139	746.694	733.471	730.360
37.5	971.480	980.813	973.035	906.922	821.363	738.916	708.581	700.803	700.025
40.0	913.922	927.145	924.034	860.253	776.250	696.136	670.469	665.802	669.691
42.5	857.142	866.476	873.476	812.807	729.582	654.913	633.912	633.912	637.023
45.0	792.584	808.140	818.252	759.139	678.247	612.133	597.355	602.022	605.911
47.5	733.471	750.583	762.250	708.581	631.578	571.687	558.465	568.576	576.354
50.0	673.580	688.358	704.692	658.024	582.577	531.241	522.686	535.131	543.686
52.5	614.467	627.689	647.912	603.577	534.353	486.907	486.129	500.907	511.019
55.0	552.242	570.132	590.355	549.909	489.240	448.016	449.572	467.461	479.128
57.5	496.240	511.019	532.797	499.351	442.572	407.570	413.015	434.016	445.683
60.0	438.683	456.572	478.351	449.572	399.014	369.458	375.680	396.681	409.126
62.5	388.125	400.570	424.682	398.237	357.013	331.345	341.457	362.458	374.902
65.0	340.679	351.568	370.236	350.013	314.234	296.344	304.122	327.456	339.123
67.5	290.899	300.233	319.678	304.900	273.788	259.787	270.676	292.455	300.233
70.0	248.898	255.898	273.010	260.565	237.231	224.786	235.675	255.898	264.454
72.5	205.341	213.119	228.675	217.786	201.452	191.340	203.007	219.341	228.675
75.0	168.006	174.228	185.896	178.895	166.451	160.228	169.562	185.118	192.896
77.5	133.783	137.672	147.005	143.116	133.783	129.116	138.450	150.117	154.783
80.0	101.115	104.226	111.226	110.448	102.670	100.337	107.337	117.449	120.560
82.5	71.558	72.336	77.781	77.003	74.669	73.114	77.781	84.003	87.114
85.0	44.335	44.335	48.224	48.224	49.002	46.668	49.780	52.113	54.446
87.5	17.112	18.667	20.223	21.779	22.556	21.779	22.556	23.334	24.112
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	16.000	28.000	30.000	30.000	30.000	30.000	30.000	28.000	16.000
95.0	45.000	80.000	82.000	64.000	64.000	64.000	82.000	80.000	45.000
97.5	79.000	136.000	210.000	131.000	114.000	131.000	210.000	136.000	79.000
100.0	119.000	186.000	333.000	246.000	193.000	246.000	333.000	186.000	119.000
102.5	167.000	227.000	492.000	381.000	310.000	381.000	492.000	227.000	167.000
105.0	211.000	271.000	614.000	589.000	472.000	589.000	614.000	271.000	211.000
107.5	256.000	315.000	670.000	862.000	725.000	862.000	670.000	315.000	256.000
110.0	299.000	356.000	697.000	1089.000	1038.000	1089.000	697.000	356.000	299.000
112.5	343.000	396.000	729.000	1183.000	1245.000	1183.000	729.000	396.000	343.000
115.0	385.000	434.000	783.000	1212.000	1323.000	1212.000	783.000	434.000	385.000
117.5	419.000	469.000	826.000	1226.000	1352.000	1226.000	826.000	469.000	419.000
120.0	450.000	503.000	854.000	1281.000	1373.000	1281.000	854.000	503.000	450.000
122.5	477.000	536.000	872.000	1349.000	1438.000	1349.000	872.000	536.000	477.000
125.0	503.000	565.000	885.000	1386.000	1514.000	1386.000	885.000	565.000	503.000
127.5	527.000	591.000	895.000	1387.000	1554.000	1387.000	895.000	591.000	527.000
130.0	547.000	614.000	903.000	1363.000	1547.000	1363.000	903.000	614.000	547.000
132.5	568.000	636.000	910.000	1330.000	1510.000	1330.000	910.000	636.000	568.000

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135.0	588.000	656.000	915.000	1294.000	1462.000	1294.000	915.000	656.000	588.000
137.5	607.000	674.000	917.000	1255.000	1407.000	1255.000	917.000	674.000	607.000
140.0	627.000	691.000	918.000	1216.000	1349.000	1216.000	918.000	691.000	627.000
142.5	647.000	707.000	917.000	1175.000	1291.000	1175.000	917.000	707.000	647.000
145.0	668.000	723.000	912.000	1137.000	1234.000	1137.000	912.000	723.000	668.000
147.5	685.000	736.000	905.000	1099.000	1179.000	1099.000	905.000	736.000	685.000
150.0	703.000	749.000	898.000	1062.000	1129.000	1062.000	898.000	749.000	703.000
152.5	721.000	760.000	890.000	1026.000	1083.000	1026.000	890.000	760.000	721.000
155.0	737.000	771.000	882.000	992.000	1037.000	992.000	882.000	771.000	737.000
157.5	752.000	780.000	872.000	961.000	996.000	961.000	872.000	780.000	752.000
160.0	766.000	789.000	864.000	933.000	959.000	933.000	864.000	789.000	766.000
162.5	778.000	796.000	854.000	907.000	927.000	907.000	854.000	796.000	778.000
165.0	790.000	802.000	845.000	884.000	899.000	884.000	845.000	802.000	790.000
167.5	799.000	807.000	837.000	864.000	875.000	864.000	837.000	807.000	799.000
170.0	806.000	812.000	831.000	848.000	854.000	848.000	831.000	812.000	806.000
172.5	811.000	815.000	826.000	835.000	839.000	835.000	826.000	815.000	811.000
175.0	816.000	817.000	821.000	825.000	828.000	825.000	821.000	817.000	816.000
177.5	818.000	818.000	819.000	820.000	820.000	820.000	819.000	818.000	818.000
180.0	819.000	819.000	819.000	819.000	819.000	819.000	819.000	819.000	819.000

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Zone	Lumens	%Lamp	%Fixt
0-20	435.32	N.A.	5.90
0-30	908.93	N.A.	12.40
0-40	1456.55	N.A.	19.90
0-60	2450.71	N.A.	33.50
0-80	2965.95	N.A.	40.50
0-90	3020.62	N.A.	41.30
10-90	2906.8	N.A.	39.70
20-40	1021.24	N.A.	13.90
20-50	1559.09	N.A.	21.30
40-70	1323.22	N.A.	18.10
60-80	515.24	N.A.	7.00
70-80	186.18	N.A.	2.50
80-90	54.67	N.A.	0.70
90-110	581.48	N.A.	7.90
90-120	1385.14	N.A.	18.90
90-130	2237.22	N.A.	30.60
90-150	3574.02	N.A.	48.80
90-180	4302.09	N.A.	58.80
110-180	3720.6	N.A.	50.80
0-180	7322.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.82
10-20	321.50
20-30	473.61
30-40	547.63
40-50	537.85
50-60	456.31
60-70	329.06
70-80	186.18
80-90	54.67
90-100	96.89
100-110	484.59
110-120	803.65
120-130	852.09
130-140	751.91
140-150	584.88
150-160	409.48
160-170	239.90
170-180	78.69

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

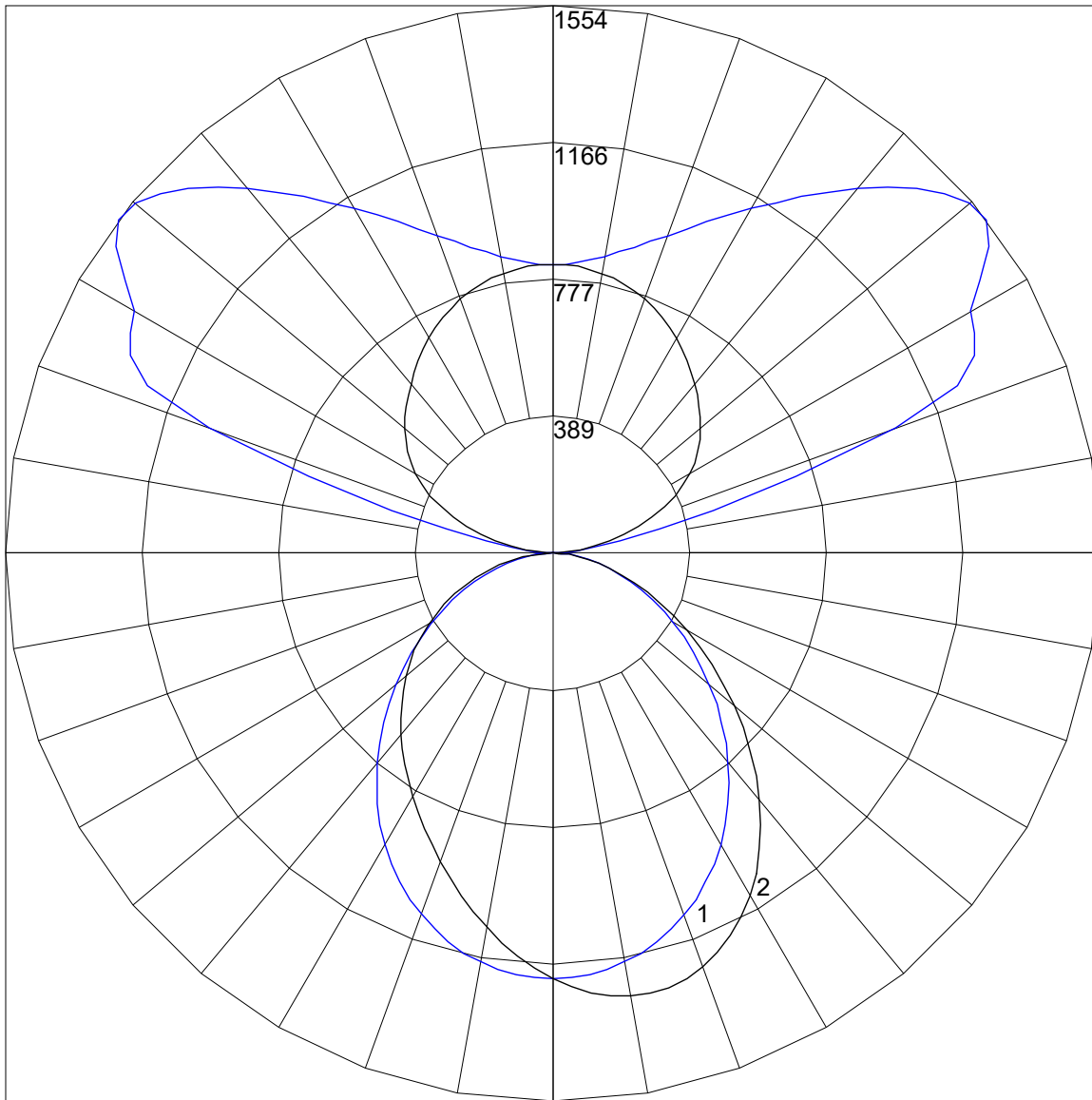
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48	41
1	96	92	88	84	87	84	80	78	69	67	64	55	54	52	43	42	41	35
2	87	80	74	69	79	73	68	64	60	57	53	49	46	44	38	36	34	29
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	33	31	29	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16
7	57	45	37	32	52	41	34	30	35	29	25	28	24	21	22	19	17	15
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

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POLAR GRAPH



Maximum Candela = 1554 Located At Horizontal Angle = 90, Vertical Angle = 127.5

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

2 - Vertical Plane Through Horizontal Angles (0 - 180)