

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-B-835-WSO-DAO-ITL89033-ITL94331.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033-ITL94331.008 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-H-B-835-WSO-DAO

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.9 WATTS

[_ABSOLUTE]LUMENS]5345

[_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	5345
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	46.9
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	6175	6375	5284
55	5304	5670	4699
65	4441	4826	4096
75	3576	3957	3543
85	2802	3048	3097

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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	798.777	798.777	798.777	798.777	798.777	798.777	798.777	798.777	798.777
2.5	815.247	814.217	810.100	804.439	798.263	791.057	785.910	781.793	780.249
5.0	828.114	826.055	818.850	807.527	794.145	781.278	768.926	762.235	759.662
7.5	837.893	834.290	824.511	807.527	787.454	767.382	750.398	741.133	737.531
10.0	844.583	841.495	826.570	804.439	779.220	751.942	731.869	719.002	712.826
12.5	846.642	844.069	826.570	798.263	769.441	734.443	711.797	695.842	689.151
15.0	844.583	841.495	822.967	788.998	755.544	714.885	690.181	672.167	664.961
17.5	837.893	835.319	816.276	778.190	739.589	694.298	665.476	648.492	639.742
20.0	826.570	825.026	805.983	762.750	722.091	671.138	641.286	623.787	616.067
22.5	811.129	809.585	792.086	746.795	703.562	646.948	618.126	599.083	593.421
25.0	791.572	791.057	775.102	728.266	680.916	622.758	593.421	575.922	571.290
27.5	768.411	768.411	754.000	706.650	657.241	597.539	567.173	553.277	547.615
30.0	741.648	743.192	730.325	682.975	630.993	570.261	543.498	530.116	526.514
32.5	711.797	713.856	704.077	658.271	603.715	544.013	518.279	506.956	505.412
35.0	676.799	681.946	676.284	629.963	574.378	516.220	494.089	485.339	483.281
37.5	642.830	649.006	643.860	600.112	543.498	488.942	468.870	463.723	463.208
40.0	604.744	613.494	611.435	569.232	513.647	460.635	443.651	440.563	443.136
42.5	567.173	573.349	577.981	537.836	482.766	433.357	419.461	419.461	421.520
45.0	524.455	534.748	541.439	502.324	448.798	405.050	395.271	398.359	400.933
47.5	485.339	496.662	504.382	468.870	417.917	378.287	369.537	376.228	381.375
50.0	445.709	455.488	466.296	435.416	385.492	351.524	345.862	354.097	359.759
52.5	406.594	415.344	428.725	399.389	353.582	322.187	321.673	331.451	338.142
55.0	365.420	377.257	390.639	363.876	323.731	296.453	297.483	309.320	317.040
57.5	328.363	338.142	352.553	330.422	292.851	269.690	273.293	287.189	294.909
60.0	290.277	302.115	316.526	297.483	264.029	244.471	248.589	262.485	270.720
62.5	256.823	265.058	281.013	263.514	236.236	219.252	225.943	239.839	248.074
65.0	225.428	232.633	244.986	231.604	207.929	196.092	201.238	216.679	224.399
67.5	192.489	198.665	211.532	201.753	181.166	171.902	179.107	193.518	198.665
70.0	164.696	169.328	180.651	172.417	156.976	148.741	155.947	169.328	174.990
72.5	135.875	141.021	151.315	144.109	133.301	126.610	134.330	145.139	151.315
75.0	111.170	115.287	123.008	118.376	110.141	106.023	112.199	122.493	127.640
77.5	88.524	91.098	97.274	94.700	88.524	85.436	91.612	99.332	102.421
80.0	66.908	68.967	73.599	73.084	67.937	66.393	71.025	77.716	79.775
82.5	47.350	47.865	51.468	50.953	49.409	48.380	51.468	55.585	57.644
85.0	29.337	29.337	31.910	31.910	32.425	30.881	32.939	34.483	36.027
87.5	11.323	12.352	13.382	14.411	14.926	14.411	14.926	15.440	15.955
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	12.444	21.778	23.333	23.333	23.333	23.333	23.333	21.778	12.444
95.0	35.000	62.222	63.778	49.778	49.778	49.778	63.778	62.222	35.000
97.5	61.444	105.778	163.333	101.889	88.667	101.889	163.333	105.778	61.444
100.0	92.556	144.667	259.000	191.333	150.111	191.333	259.000	144.667	92.556
102.5	129.889	176.556	382.667	296.333	241.111	296.333	382.667	176.556	129.889
105.0	164.111	210.778	477.556	458.111	367.111	458.111	477.556	210.778	164.111
107.5	199.111	245.000	521.111	670.445	563.889	670.445	521.111	245.000	199.111
110.0	232.556	276.889	542.111	847.000	807.334	847.000	542.111	276.889	232.556
112.5	266.778	308.000	567.000	920.111	968.334	920.111	567.000	308.000	266.778
115.0	299.445	337.556	609.000	942.667	1029.000	942.667	609.000	337.556	299.445
117.5	325.889	364.778	642.445	953.556	1051.556	953.556	642.445	364.778	325.889
120.0	350.000	391.222	664.222	996.334	1067.889	996.334	664.222	391.222	350.000
122.5	371.000	416.889	678.222	1049.223	1118.445	1049.223	678.222	416.889	371.000
125.0	391.222	439.445	688.334	1078.000	1177.556	1078.000	688.334	439.445	391.222
127.5	409.889	459.667	696.111	1078.778	1208.667	1078.778	696.111	459.667	409.889
130.0	425.445	477.556	702.334	1060.111	1203.223	1060.111	702.334	477.556	425.445
132.5	441.778	494.667	707.778	1034.445	1174.445	1034.445	707.778	494.667	441.778

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-B-835-WSO-DAO-ITL89033-ITL94331.008.IES****CANDELA TABULATION - (Cont.)**

135.0	457.334	510.222	711.667	1006.445	1137.111	1006.445	711.667	510.222	457.334
137.5	472.111	524.222	713.222	976.111	1094.334	976.111	713.222	524.222	472.111
140.0	487.667	537.445	714.000	945.778	1049.223	945.778	714.000	537.445	487.667
142.5	503.222	549.889	713.222	913.889	1004.111	913.889	713.222	549.889	503.222
145.0	519.556	562.333	709.334	884.334	959.778	884.334	709.334	562.333	519.556
147.5	532.778	572.445	703.889	854.778	917.000	854.778	703.889	572.445	532.778
150.0	546.778	582.556	698.445	826.000	878.111	826.000	698.445	582.556	546.778
152.5	560.778	591.111	692.222	798.000	842.334	798.000	692.222	591.111	560.778
155.0	573.222	599.667	686.000	771.556	806.556	771.556	686.000	599.667	573.222
157.5	584.889	606.667	678.222	747.445	774.667	747.445	678.222	606.667	584.889
160.0	595.778	613.667	672.000	725.667	745.889	725.667	672.000	613.667	595.778
162.5	605.111	619.111	664.222	705.445	721.000	705.445	664.222	619.111	605.111
165.0	614.445	623.778	657.222	687.556	699.222	687.556	657.222	623.778	614.445
167.5	621.445	627.667	651.000	672.000	680.556	672.000	651.000	627.667	621.445
170.0	626.889	631.556	646.333	659.556	664.222	659.556	646.333	631.556	626.889
172.5	630.778	633.889	642.445	649.445	652.556	649.445	642.445	633.889	630.778
175.0	634.667	635.445	638.556	641.667	644.000	641.667	638.556	635.445	634.667
177.5	636.222	636.222	637.000	637.778	637.778	637.778	637.000	636.222	636.222
180.0	637.000	637.000	637.000	637.000	637.000	637.000	637.000	637.000	637.000

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Zone	Lumens	%Lamp	%Fixt
0-20	288.05	N.A.	5.40
0-30	601.44	N.A.	11.30
0-40	963.81	N.A.	18.00
0-60	1621.64	N.A.	30.30
0-80	1962.58	N.A.	36.70
0-90	1998.75	N.A.	37.40
10-90	1923.43	N.A.	36.00
20-40	675.76	N.A.	12.60
20-50	1031.65	N.A.	19.30
40-70	875.58	N.A.	16.40
60-80	340.94	N.A.	6.40
70-80	123.20	N.A.	2.30
80-90	36.17	N.A.	0.70
90-110	452.26	N.A.	8.50
90-120	1077.33	N.A.	20.20
90-130	1740.06	N.A.	32.60
90-150	2779.79	N.A.	52.00
90-180	3346.07	N.A.	62.60
110-180	2893.8	N.A.	54.10
0-180	5344.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.32
10-20	212.73
20-30	313.39
30-40	362.37
40-50	355.90
50-60	301.94
60-70	217.74
70-80	123.20
80-90	36.17
90-100	75.36
100-110	376.90
110-120	625.06
120-130	662.73
130-140	584.82
140-150	454.91
150-160	318.49
160-170	186.59
170-180	61.20

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

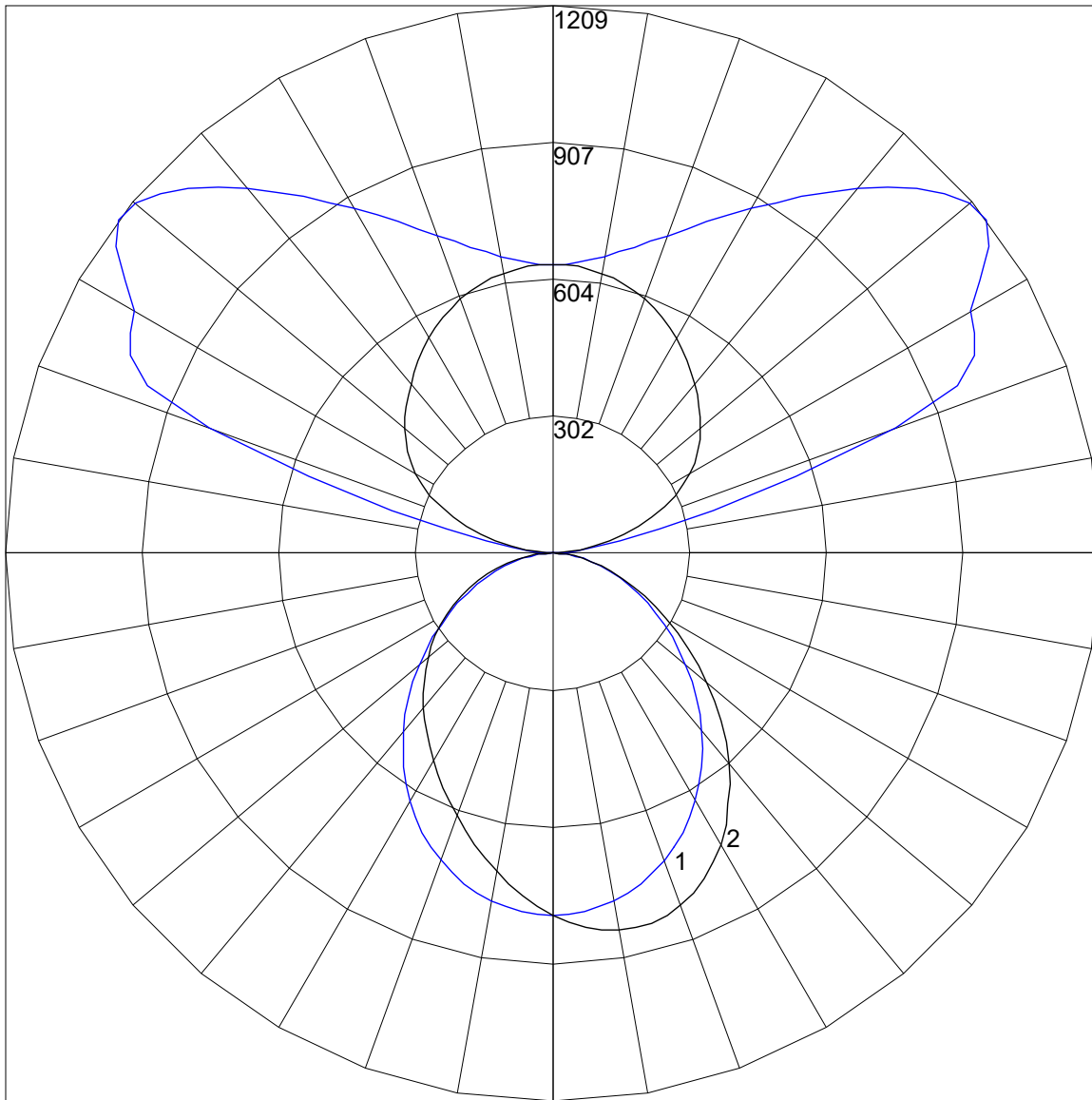
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	87	84	86	82	79	76	67	65	63	53	51	50	39	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	33	27	47	37	30	26	31	25	22	25	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	14	12	10

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POLAR GRAPH



Maximum Candela = 1208.667 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)