

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-B-B-8TW-WSO-DAO-ITL89033-ITL94331.902.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033-ITL94331.902 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-B-B-8TW-WSO-DAO

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com

for lumen adjustment factors for other CCT's & CRI's

[_INPUT_ELECTRICAL]120.0 VOLTS, 40.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 43.5 WATTS

[_ABSOLUTE]LUMENS]4213

[_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	4213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	40.6
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	6175	6375	5284
55	5304	5670	4699
65	4441	4826	4096
75	3576	3957	3543
85	2802	3048	3097

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-8TW-WSO-DAO-ITL89033-ITL94331.902.IES

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	8.234	14.410	15.439	15.439	15.439	15.439	15.439	14.410	8.234
95.0	23.159	41.172	42.201	32.937	32.937	32.937	42.201	41.172	23.159
97.5	40.657	69.992	108.075	67.418	58.669	67.418	108.075	69.992	40.657
100.0	61.243	95.724	171.376	126.602	99.326	126.602	171.376	95.724	61.243
102.5	85.945	116.824	253.205	196.079	159.540	196.079	253.205	116.824	85.945
105.0	108.590	139.469	315.991	303.125	242.912	303.125	315.991	139.469	108.590
107.5	131.749	162.113	344.812	443.623	373.117	443.623	344.812	162.113	131.749
110.0	153.879	183.213	358.707	560.447	534.201	560.447	358.707	183.213	153.879
112.5	176.523	203.799	375.175	608.824	640.732	608.824	375.175	203.799	176.523
115.0	198.138	223.356	402.966	623.749	680.874	623.749	402.966	223.356	198.138
117.5	215.636	241.368	425.096	630.954	695.799	630.954	425.096	241.368	215.636
120.0	231.590	258.866	439.506	659.259	706.606	659.259	439.506	258.866	231.590
122.5	245.485	275.849	448.770	694.255	740.058	694.255	448.770	275.849	245.485
125.0	258.866	290.774	455.460	713.297	779.171	713.297	455.460	290.774	258.866
127.5	271.217	304.155	460.606	713.811	799.757	713.811	460.606	304.155	271.217
130.0	281.510	315.991	464.724	701.460	796.154	701.460	464.724	315.991	281.510
132.5	292.318	327.314	468.326	684.476	777.112	684.476	468.326	327.314	292.318

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-8TW-WSO-DAO-ITL89033-ITL94331.902.IES****CANDELA TABULATION - (Cont.)**

135.0	302.611	337.606	470.899	665.949	752.409	665.949	470.899	337.606	302.611
137.5	312.389	346.870	471.929	645.878	724.104	645.878	471.929	346.870	312.389
140.0	322.682	355.619	472.443	625.807	694.255	625.807	472.443	355.619	322.682
142.5	332.975	363.853	471.929	604.707	664.405	604.707	471.929	363.853	332.975
145.0	343.782	372.088	469.355	585.150	635.071	585.150	469.355	372.088	343.782
147.5	352.531	378.778	465.753	565.594	606.765	565.594	465.753	378.778	352.531
150.0	361.795	385.468	462.150	546.552	581.033	546.552	462.150	385.468	361.795
152.5	371.058	391.129	458.033	528.025	557.359	528.025	458.033	391.129	371.058
155.0	379.293	396.791	453.916	510.527	533.686	510.527	453.916	396.791	379.293
157.5	387.012	401.422	448.770	494.573	512.585	494.573	448.770	401.422	387.012
160.0	394.217	406.054	444.652	480.163	493.544	480.163	444.652	406.054	394.217
162.5	400.393	409.657	439.506	466.782	477.075	466.782	439.506	409.657	400.393
165.0	406.569	412.745	434.874	454.945	462.665	454.945	434.874	412.745	406.569
167.5	411.201	415.318	430.757	444.652	450.313	444.652	430.757	415.318	411.201
170.0	414.803	417.891	427.669	436.418	439.506	436.418	427.669	417.891	414.803
172.5	417.376	419.435	425.096	429.728	431.786	429.728	425.096	419.435	417.376
175.0	419.950	420.464	422.523	424.581	426.125	424.581	422.523	420.464	419.950
177.5	420.979	420.979	421.493	422.008	422.008	422.008	421.493	420.979	420.979
180.0	421.493	421.493	421.493	421.493	421.493	421.493	421.493	421.493	421.493

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-8TW-WSO-DAO-ITL89033-ITL94331.902.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	288.05	N.A.	6.80
0-30	601.44	N.A.	14.30
0-40	963.81	N.A.	22.90
0-60	1621.64	N.A.	38.50
0-80	1962.58	N.A.	46.60
0-90	1998.75	N.A.	47.40
10-90	1923.43	N.A.	45.70
20-40	675.76	N.A.	16.00
20-50	1031.65	N.A.	24.50
40-70	875.58	N.A.	20.80
60-80	340.94	N.A.	8.10
70-80	123.20	N.A.	2.90
80-90	36.17	N.A.	0.90
90-110	299.26	N.A.	7.10
90-120	712.85	N.A.	16.90
90-130	1151.37	N.A.	27.30
90-150	1839.35	N.A.	43.70
90-180	2214.04	N.A.	52.60
110-180	1914.79	N.A.	45.50
0-180	4212.79	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	49.87
100-110	249.39
110-120	413.60
120-130	438.52
130-140	386.97
140-150	301.01
150-160	210.74
160-170	123.46
170-180	40.50

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-8TW-WSO-DAO-ITL89033-ITL94331.902.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

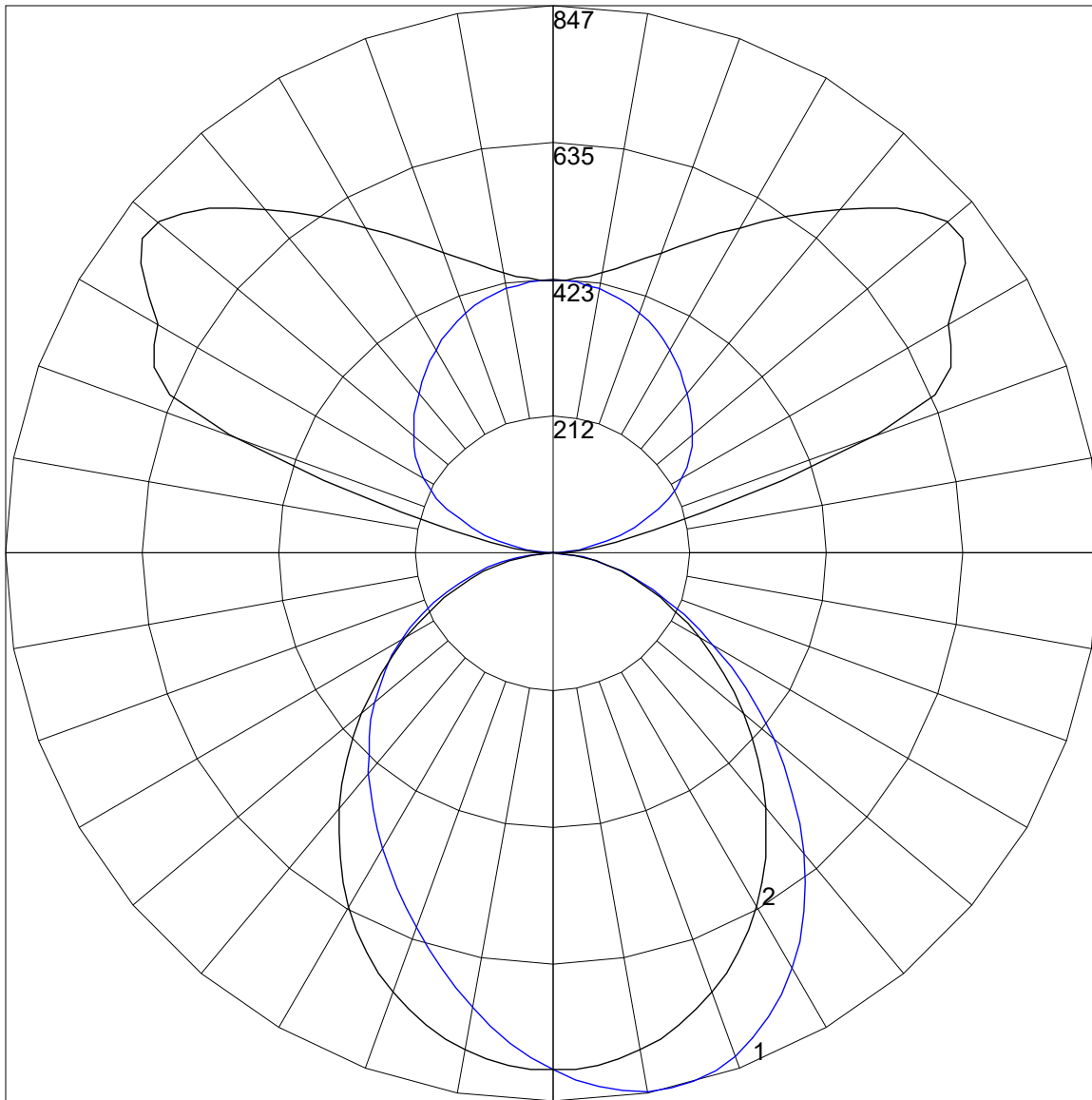
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16	14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-8TW-WSO-DAO-ITL89033-ITL94331.902.IES

POLAR GRAPH



Maximum Candela = 846.642 Located At Horizontal Angle = 0, Vertical Angle = 12.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)