

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-S-835-WSO-DAO-ITL89033-ITL94331.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033-ITL94331.012 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-S-835-WSO-DAO

[_INPUT_ELECTRICAL]120.0 VOLTS, 33.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 35.7 WATTS

[_ABSOLUTE]LUMENS]3804

[_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	3804
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	33
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	4912	5071	4203
55	4219	4510	3738
65	3532	3839	3258
75	2844	3147	2818
85	2229	2425	2464

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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	635.345	635.345	635.345	635.345	635.345	635.345	635.345	635.345	635.345
2.5	648.445	647.626	644.351	639.848	634.936	629.205	625.111	621.836	620.608
5.0	658.680	657.042	651.311	642.305	631.661	621.427	611.602	606.280	604.233
7.5	666.458	663.592	655.814	642.305	626.339	610.374	596.864	589.496	586.630
10.0	671.779	669.323	657.451	639.848	619.789	598.092	582.127	571.893	566.980
12.5	673.417	671.370	657.451	634.936	612.011	584.174	566.162	553.471	548.149
15.0	671.779	669.323	654.586	627.567	600.958	568.618	548.968	534.640	528.909
17.5	666.458	664.411	649.264	618.971	588.268	552.243	529.318	515.809	508.849
20.0	657.451	656.223	641.077	606.689	574.349	533.821	510.077	496.159	490.018
22.5	645.170	643.942	630.024	593.999	559.611	514.581	491.656	476.509	472.006
25.0	629.614	629.205	616.514	579.261	541.599	495.340	472.006	458.087	454.403
27.5	611.192	611.192	599.730	562.068	522.768	475.281	451.128	440.075	435.572
30.0	589.905	591.133	580.899	543.237	501.890	453.584	432.297	421.653	418.788
32.5	566.162	567.799	560.021	523.587	480.193	432.706	412.238	403.231	402.003
35.0	538.324	542.418	537.915	501.071	456.859	410.600	392.997	386.038	384.400
37.5	511.306	516.218	512.124	477.328	432.297	388.903	372.938	368.844	368.435
40.0	481.012	487.971	486.334	452.765	408.553	366.388	352.879	350.422	352.469
42.5	451.128	456.040	459.725	427.794	383.991	344.691	333.638	333.638	335.276
45.0	417.150	425.337	430.659	399.547	356.972	322.176	314.398	316.854	318.901
47.5	386.038	395.044	401.185	372.938	332.410	300.888	293.929	299.251	303.345
50.0	354.516	362.294	370.891	346.329	306.620	279.601	275.098	281.648	286.151
52.5	323.404	330.363	341.007	317.673	281.239	256.267	255.857	263.636	268.957
55.0	290.654	300.070	310.713	289.426	257.495	235.798	236.617	246.033	252.173
57.5	261.179	268.957	280.420	262.817	232.933	214.511	217.376	228.430	234.570
60.0	230.886	240.301	251.764	236.617	210.008	194.452	197.727	208.780	215.330
62.5	204.277	210.827	223.517	209.599	187.902	174.393	179.714	190.767	197.317
65.0	179.305	185.036	194.861	184.217	165.386	155.971	160.065	172.346	178.486
67.5	153.105	158.018	168.252	160.474	144.099	136.730	142.462	153.924	158.018
70.0	130.999	134.683	143.690	137.140	124.859	118.308	124.040	134.683	139.186
72.5	108.074	112.168	120.355	114.624	106.027	100.706	106.846	115.443	120.355
75.0	88.424	91.699	97.840	94.156	87.606	84.331	89.243	97.430	101.524
77.5	70.412	72.459	77.371	75.324	70.412	67.956	72.868	79.009	81.465
80.0	53.218	54.856	58.540	58.131	54.037	52.809	56.493	61.815	63.453
82.5	37.662	38.072	40.937	40.528	39.300	38.481	40.937	44.212	45.850
85.0	23.334	23.334	25.381	25.381	25.790	24.562	26.200	27.428	28.656
87.5	9.006	9.825	10.644	11.462	11.872	11.462	11.872	12.281	12.691
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

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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

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Zone	Lumens	%Lamp	%Fixt
0-20	229.11	N.A.	6.00
0-30	478.38	N.A.	12.60
0-40	766.61	N.A.	20.20
0-60	1289.85	N.A.	33.90
0-80	1561.03	N.A.	41.00
0-90	1589.8	N.A.	41.80
10-90	1529.89	N.A.	40.20
20-40	537.49	N.A.	14.10
20-50	820.57	N.A.	21.60
40-70	696.43	N.A.	18.30
60-80	271.18	N.A.	7.10
70-80	97.99	N.A.	2.60
80-90	28.77	N.A.	0.80
90-110	299.26	N.A.	7.90
90-120	712.85	N.A.	18.70
90-130	1151.37	N.A.	30.30
90-150	1839.35	N.A.	48.40
90-180	2214.04	N.A.	58.20
110-180	1914.79	N.A.	50.30
0-180	3803.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.91
10-20	169.21
20-30	249.27
30-40	288.23
40-50	283.08
50-60	240.16
60-70	173.19
70-80	97.99
80-90	28.77
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

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

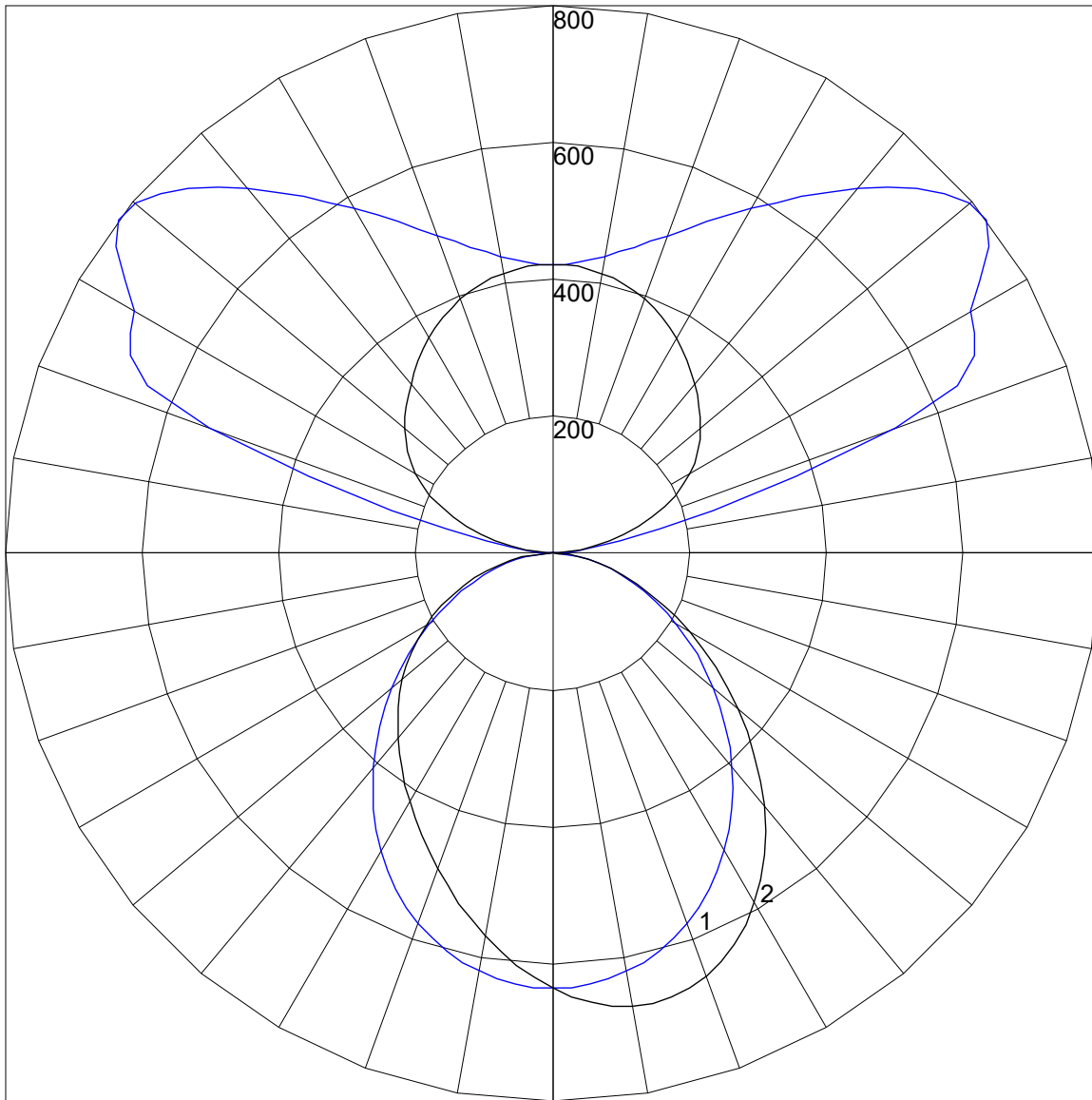
Effective Floor Cavity Reflectance 0.20

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	79	79	79	63	63	63	49	49	49	42
1	96	92	88	84	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	63	58	73	65	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	55	49	66	57	50	45	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	41	34	30	35	29	25	28	24	21	23	20	17	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	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	32	25	21	27	22	18	22	18	16	18	15	13	11

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POLAR GRAPH



Maximum Candela = 799.757 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)