

# 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-B-8TW-WSO-DAO-ITL89033-ITL94331.905.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033-ITL94331.905 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-B-8TW-WSO-DAO

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

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

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 61.2 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 63.4 WATTS

[\_ABSOLUTE]LUMENS]6301

[\_CONVERT] Photometric web converted from original test data

[OTHER]see [www.finelite.com](http://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](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	6301
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	61.2
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

**IES INDOOR REPORT**

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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	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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-B-8TW-WSO-DAO-ITL89033-ITL94331.905.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	588.000	656.000	915.000	1294.000	1462.000	1294.000	915.000	656.000	588.000
<b>137.5</b>	607.000	674.000	917.000	1255.000	1407.000	1255.000	917.000	674.000	607.000
<b>140.0</b>	627.000	691.000	918.000	1216.000	1349.000	1216.000	918.000	691.000	627.000
<b>142.5</b>	647.000	707.000	917.000	1175.000	1291.000	1175.000	917.000	707.000	647.000
<b>145.0</b>	668.000	723.000	912.000	1137.000	1234.000	1137.000	912.000	723.000	668.000
<b>147.5</b>	685.000	736.000	905.000	1099.000	1179.000	1099.000	905.000	736.000	685.000
<b>150.0</b>	703.000	749.000	898.000	1062.000	1129.000	1062.000	898.000	749.000	703.000
<b>152.5</b>	721.000	760.000	890.000	1026.000	1083.000	1026.000	890.000	760.000	721.000
<b>155.0</b>	737.000	771.000	882.000	992.000	1037.000	992.000	882.000	771.000	737.000
<b>157.5</b>	752.000	780.000	872.000	961.000	996.000	961.000	872.000	780.000	752.000
<b>160.0</b>	766.000	789.000	864.000	933.000	959.000	933.000	864.000	789.000	766.000
<b>162.5</b>	778.000	796.000	854.000	907.000	927.000	907.000	854.000	796.000	778.000
<b>165.0</b>	790.000	802.000	845.000	884.000	899.000	884.000	845.000	802.000	790.000
<b>167.5</b>	799.000	807.000	837.000	864.000	875.000	864.000	837.000	807.000	799.000
<b>170.0</b>	806.000	812.000	831.000	848.000	854.000	848.000	831.000	812.000	806.000
<b>172.5</b>	811.000	815.000	826.000	835.000	839.000	835.000	826.000	815.000	811.000
<b>175.0</b>	816.000	817.000	821.000	825.000	828.000	825.000	821.000	817.000	816.000
<b>177.5</b>	818.000	818.000	819.000	820.000	820.000	820.000	819.000	818.000	818.000
<b>180.0</b>	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	288.05	N.A.	4.60
0-30	601.44	N.A.	9.50
0-40	963.81	N.A.	15.30
0-60	1621.64	N.A.	25.70
0-80	1962.58	N.A.	31.10
0-90	1998.75	N.A.	31.70
10-90	1923.43	N.A.	30.50
20-40	675.76	N.A.	10.70
20-50	1031.65	N.A.	16.40
40-70	875.58	N.A.	13.90
60-80	340.94	N.A.	5.40
70-80	123.20	N.A.	2.00
80-90	36.17	N.A.	0.60
90-110	581.48	N.A.	9.20
90-120	1385.14	N.A.	22.00
90-130	2237.22	N.A.	35.50
90-150	3574.02	N.A.	56.70
90-180	4302.09	N.A.	68.30
110-180	3720.6	N.A.	59.00
0-180	6300.83	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	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

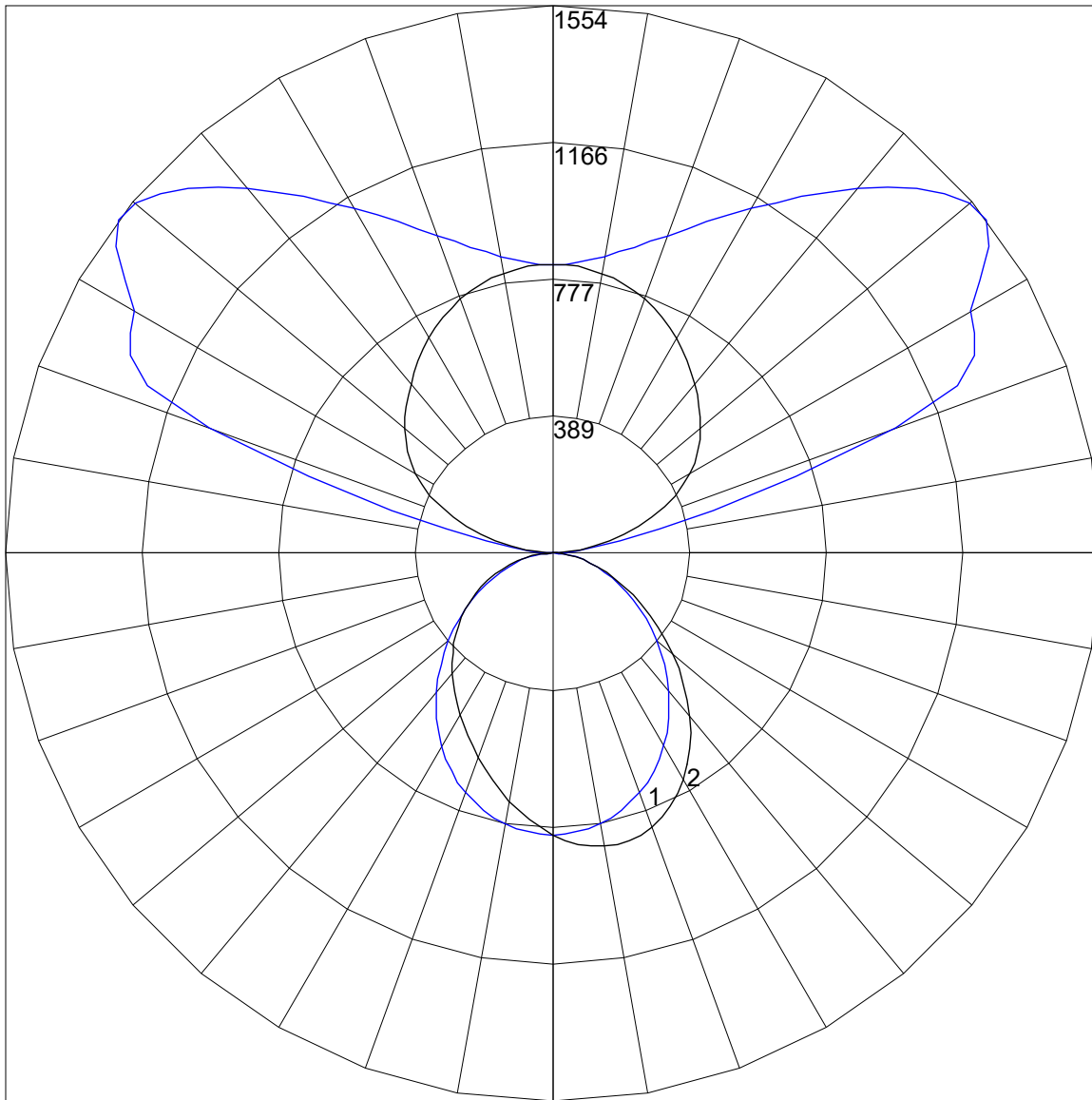
Effective Floor Cavity Reflectance 0.20

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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39	32
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	24	22	21	16
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

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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)