

# 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-837-XXIC-WSO-DSO-ITL89033-ITL92993.206.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033 and ITL92993.206 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]03/27/17  
[ISSUE DATE]05/14/2021  
[MANUFAC]FINELITE, INC.  
[LUMCAT]FINELITE HP-4-ID-4ft-V-H-837-XXIC-WSO-DSO  
[INPUT\_ELECTRICAL]120.0 VOLTS, 62.3 WATTS  
[INPUT\_ELECTRICAL]277.0 VOLTS, 62.5 WATTS  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source files ITL89033 and ITL92993. 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)  
[ABSOLUTE LUMENS]6723

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6723
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	62.3
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	6022	7921	8636
55	5544	7529	8064
65	5073	6869	7225
75	4561	5980	6120
85	4008	4699	4561

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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>
0.0	904.236	904.236	904.236	904.236	904.236
2.5	902.065	902.789	904.236	904.959	905.682
5.0	897.725	899.172	903.512	907.852	909.299
7.5	889.768	894.108	902.789	911.469	914.363
10.0	880.364	884.704	900.619	917.256	922.320
12.5	870.960	874.577	899.172	925.214	931.724
15.0	858.662	870.960	898.448	931.001	938.958
17.5	831.897	844.918	897.725	933.171	944.745
20.0	809.472	825.386	896.278	933.171	946.192
22.5	787.047	805.855	878.917	930.278	945.469
25.0	761.728	789.217	865.896	923.767	940.405
27.5	731.346	765.345	852.152	914.363	930.278
30.0	702.410	738.580	835.514	900.619	915.086
32.5	672.028	713.984	819.599	884.704	896.278
35.0	641.646	687.219	792.834	863.002	871.683
37.5	609.093	657.560	766.792	831.173	842.747
40.0	578.711	627.178	737.856	797.897	810.918
42.5	543.988	597.519	706.751	764.622	774.026
45.0	511.436	564.243	672.751	724.835	733.516
47.5	479.606	530.967	638.029	685.772	693.730
50.0	446.331	496.968	600.412	645.262	648.156
52.5	413.055	462.969	559.179	601.136	602.583
55.0	381.949	427.523	518.669	553.392	555.562
57.5	350.843	392.800	476.713	507.819	508.542
60.0	319.014	357.354	434.033	461.522	462.245
62.5	287.185	324.078	390.630	415.948	413.778
65.0	257.526	288.632	348.673	367.481	366.758
67.5	228.591	253.909	306.717	322.631	321.184
70.0	197.485	220.633	265.484	277.058	273.441
72.5	169.996	188.081	224.974	233.654	230.761
75.0	141.784	156.975	185.911	191.698	190.251
77.5	115.742	125.870	148.295	152.635	151.188
80.0	89.700	97.657	112.849	115.742	112.125
82.5	65.828	70.169	79.573	81.019	78.126
85.0	41.956	44.127	49.190	47.744	47.744
87.5	19.531	19.531	20.255	18.808	18.085
90.0	0.000	0.000	0.000	0.000	0.000
92.5	14.880	26.040	27.900	27.900	27.900
95.0	41.850	74.400	76.260	59.520	59.520
97.5	73.470	126.480	195.300	121.830	106.020
100.0	110.670	172.980	309.690	228.780	179.490
102.5	155.310	211.110	457.560	354.330	288.300
105.0	196.230	252.030	571.020	547.770	438.960
107.5	238.080	292.950	623.100	801.660	674.250
110.0	278.070	331.080	648.210	1012.770	965.340
112.5	318.990	368.280	677.970	1100.190	1157.850
115.0	358.050	403.620	728.190	1127.160	1230.390
117.5	389.670	436.170	768.180	1140.180	1257.360
120.0	418.500	467.790	794.220	1191.330	1276.890
122.5	443.610	498.480	810.960	1254.570	1337.340
125.0	467.790	525.450	823.050	1288.980	1408.020
127.5	490.110	549.630	832.350	1289.910	1445.220
130.0	508.710	571.020	839.790	1267.590	1438.710
132.5	528.240	591.480	846.300	1236.900	1404.300

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-H-837-XXIC-WSO-DSO-ITL89033-ITL92993.206.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	546.840	610.080	850.950	1203.420	1359.660
<b>137.5</b>	564.510	626.820	852.810	1167.150	1308.510
<b>140.0</b>	583.110	642.630	853.740	1130.880	1254.570
<b>142.5</b>	601.710	657.510	852.810	1092.750	1200.630
<b>145.0</b>	621.240	672.390	848.160	1057.410	1147.620
<b>147.5</b>	637.050	684.480	841.650	1022.070	1096.470
<b>150.0</b>	653.790	696.570	835.140	987.660	1049.970
<b>152.5</b>	670.530	706.800	827.700	954.180	1007.190
<b>155.0</b>	685.410	717.030	820.260	922.560	964.410
<b>157.5</b>	699.360	725.400	810.960	893.730	926.280
<b>160.0</b>	712.380	733.770	803.520	867.690	891.870
<b>162.5</b>	723.540	740.280	794.220	843.510	862.110
<b>165.0</b>	734.700	745.860	785.850	822.120	836.070
<b>167.5</b>	743.070	750.510	778.410	803.520	813.750
<b>170.0</b>	749.580	755.160	772.830	788.640	794.220
<b>172.5</b>	754.230	757.950	768.180	776.550	780.270
<b>175.0</b>	758.880	759.810	763.530	767.250	770.040
<b>177.5</b>	760.740	760.740	761.670	762.600	762.600
<b>180.0</b>	761.670	761.670	761.670	761.670	761.670

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-H-837-XXIC-WSO-DSO-ITL89033-ITL92993.206.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	339.82	N.A.	5.10
0-30	734.80	N.A.	10.90
0-40	1218.54	N.A.	18.10
0-60	2157.00	N.A.	32.10
0-80	2669.33	N.A.	39.70
0-90	2722.35	N.A.	40.50
10-90	2636.18	N.A.	39.20
20-40	878.71	N.A.	13.10
20-50	1377.09	N.A.	20.50
40-70	1264.83	N.A.	18.80
60-80	512.34	N.A.	7.60
70-80	185.96	N.A.	2.80
80-90	53.02	N.A.	0.80
90-110	540.78	N.A.	8.00
90-120	1288.18	N.A.	19.20
90-130	2080.61	N.A.	30.90
90-150	3323.83	N.A.	49.40
90-180	4000.94	N.A.	59.50
110-180	3460.16	N.A.	51.50
0-180	6723.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	86.17
10-20	253.66
20-30	394.98
30-40	483.73
40-50	498.37
50-60	440.08
60-70	326.38
70-80	185.96
80-90	53.02
90-100	90.11
100-110	450.66
110-120	747.40
120-130	792.44
130-140	699.28
140-150	543.94
150-160	380.82
160-170	223.11
170-180	73.18

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

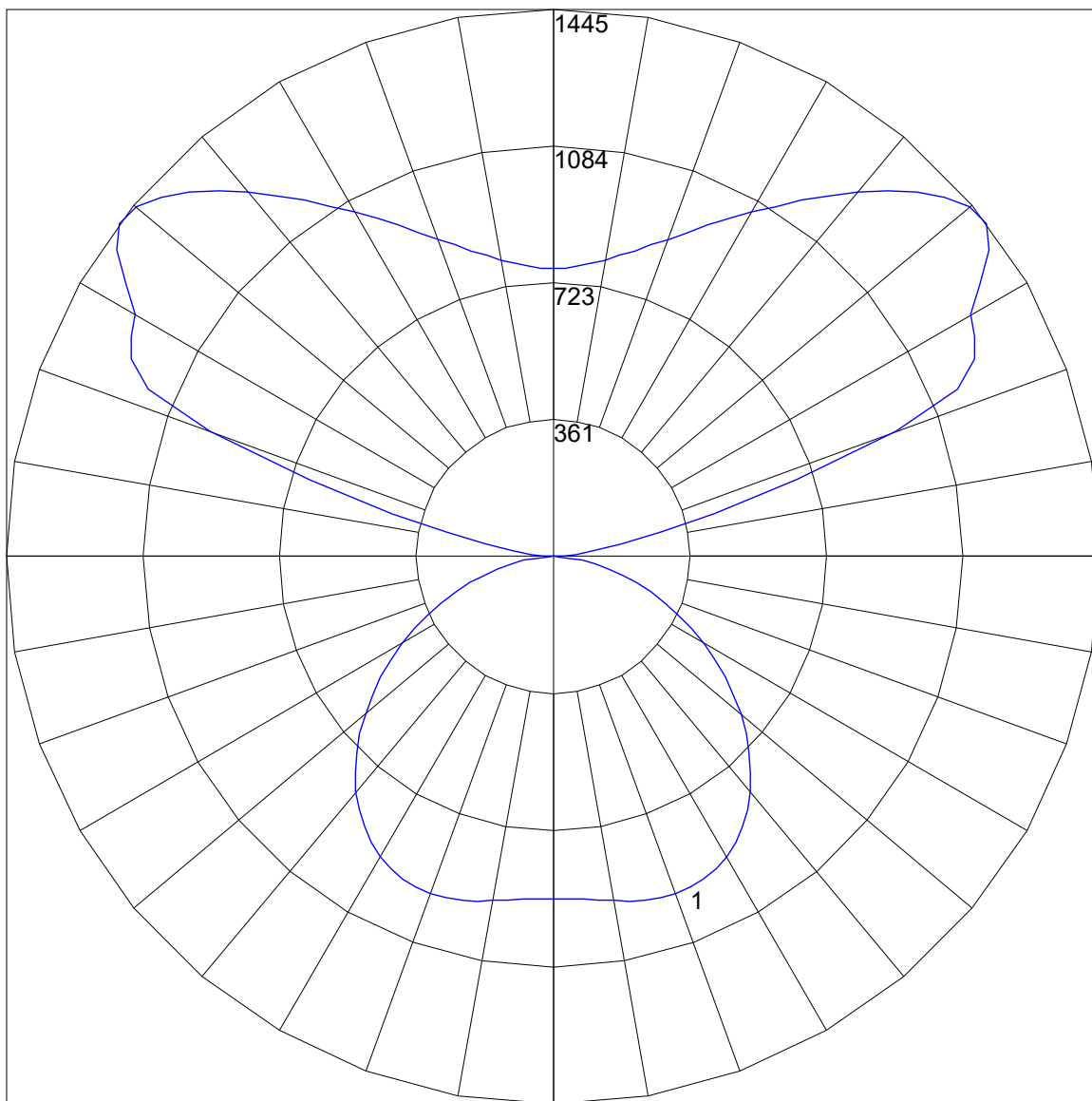
Effective Floor Cavity Reflectance 0.20

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	62	62	62	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40	34
2	87	80	73	68	79	73	67	63	60	56	53	48	45	43	37	35	33	28
3	79	70	62	57	72	64	57	52	52	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	56	49	44	46	41	37	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	26	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	21	18	15
7	56	44	36	31	51	40	33	29	34	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	14	17	14	12	10

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## POLAR GRAPH



Maximum Candela = 1445.22 Located At Horizontal Angle = 90, Vertical Angle = 127.5

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