

# 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-2-P-ID-4FT-V-H-835-WSO-ABL-8H-ITL94474.004.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]04/12/21

[TESTDATE]01/22/21

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-P-ID-4ft-V-H-835-WSO-ABL-8H

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 62.6 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 62.8 WATTS

[\_ABSOLUTE]LUMENS]6520

[OTHER]see [www.finelite.com](http://www.finelite.com) for source file ITL94474. 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	6522
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	62.6
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)	3.81 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13415	12940	12168
55	12381	11559	10174
65	11193	9460	7668
75	9546	6140	3886
85	7265	570	427

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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	1018.134	1018.134	1018.134	1018.134	1018.134
2.5	1017.356	1016.577	1016.577	1016.577	1016.577
5.0	1011.907	1011.129	1010.350	1010.350	1009.572
7.5	1004.123	1003.345	1001.788	1000.231	1000.231
10.0	993.226	990.112	989.334	987.777	986.220
12.5	979.993	973.766	974.544	973.766	969.874
15.0	963.647	954.306	957.420	954.306	950.414
17.5	943.409	932.511	935.625	930.954	926.284
20.0	920.057	908.381	911.495	905.268	900.597
22.5	893.592	882.694	883.473	877.246	871.018
25.0	866.348	854.672	854.672	845.332	839.883
27.5	837.548	823.537	823.537	813.418	807.190
30.0	805.634	793.958	790.844	780.725	773.720
32.5	773.720	762.822	758.152	745.698	737.135
35.0	737.914	727.795	722.346	707.557	698.994
37.5	704.443	692.767	687.318	669.415	661.631
40.0	668.637	657.740	650.734	630.496	621.934
42.5	630.496	622.712	611.815	591.576	579.901
45.0	594.690	585.349	573.673	550.322	539.424
47.5	558.106	547.987	534.754	509.067	497.391
50.0	519.965	512.181	494.278	467.034	454.580
52.5	483.380	476.375	455.358	424.223	409.433
55.0	445.239	437.455	415.660	380.633	365.843
57.5	409.433	400.092	375.184	337.043	324.589
60.0	371.292	363.508	333.151	296.567	283.334
62.5	333.151	326.145	290.339	256.090	241.301
65.0	296.567	288.004	250.642	215.614	203.160
67.5	260.761	249.085	210.944	176.695	165.797
70.0	224.176	212.500	172.803	140.110	129.213
72.5	188.370	175.138	134.661	105.861	95.742
75.0	154.900	136.997	99.634	73.169	63.050
77.5	122.986	101.969	66.942	42.033	35.028
80.0	92.628	70.055	35.806	15.568	9.341
82.5	65.385	40.476	10.119	3.892	3.892
85.0	39.698	14.011	3.114	3.114	2.335
87.5	17.125	1.557	1.557	1.557	1.557
90.0	0.000	0.000	0.000	0.000	0.000
92.5	19.000	32.000	51.000	34.000	28.000
95.0	44.000	83.000	157.000	91.000	74.000
97.5	71.000	132.000	285.000	172.000	134.000
100.0	98.000	173.000	458.000	288.000	217.000
102.5	127.000	209.000	608.000	480.000	350.000
105.0	156.000	242.000	711.000	760.000	574.000
107.5	185.000	272.000	757.000	1060.000	883.000
110.0	216.000	302.000	779.000	1311.000	1224.000
112.5	245.000	332.000	793.000	1456.000	1483.000
115.0	276.000	359.000	802.000	1507.000	1632.000
117.5	306.000	387.000	808.000	1515.000	1694.000
120.0	335.000	412.000	813.000	1502.000	1711.000
122.5	360.000	436.000	816.000	1468.000	1701.000
125.0	383.000	457.000	816.000	1417.000	1662.000
127.5	405.000	476.000	814.000	1360.000	1599.000
130.0	425.000	492.000	813.000	1304.000	1519.000
132.5	444.000	507.000	810.000	1247.000	1445.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-V-H-835-WSO-ABL-8H-ITL94474.004.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	462.000	522.000	805.000	1195.000	1372.000
<b>137.5</b>	480.000	536.000	797.000	1144.000	1300.000
<b>140.0</b>	498.000	551.000	788.000	1096.000	1232.000
<b>142.5</b>	514.000	563.000	778.000	1048.000	1167.000
<b>145.0</b>	529.000	574.000	766.000	1000.000	1103.000
<b>147.5</b>	545.000	584.000	753.000	955.000	1043.000
<b>150.0</b>	560.000	594.000	739.000	912.000	984.000
<b>152.5</b>	573.000	604.000	727.000	871.000	931.000
<b>155.0</b>	586.000	612.000	719.000	831.000	882.000
<b>157.5</b>	600.000	621.000	708.000	795.000	834.000
<b>160.0</b>	613.000	630.000	696.000	764.000	792.000
<b>162.5</b>	623.000	636.000	685.000	736.000	757.000
<b>165.0</b>	632.000	641.000	677.000	712.000	728.000
<b>167.5</b>	638.000	644.000	669.000	693.000	702.000
<b>170.0</b>	643.000	647.000	662.000	678.000	683.000
<b>172.5</b>	646.000	649.000	658.000	666.000	669.000
<b>175.0</b>	649.000	650.000	654.000	657.000	659.000
<b>177.5</b>	651.000	650.000	651.000	652.000	653.000
<b>180.0</b>	651.000	651.000	651.000	651.000	651.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-V-H-835-WSO-ABL-8H-ITL94474.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	364.82	N.A.	5.60
0-30	756.96	N.A.	11.60
0-40	1206.75	N.A.	18.50
0-60	2012.1	N.A.	30.90
0-80	2372.98	N.A.	36.40
0-90	2388.65	N.A.	36.60
10-90	2292.84	N.A.	35.20
20-40	841.92	N.A.	12.90
20-50	1280.73	N.A.	19.60
40-70	1054.1	N.A.	16.20
60-80	360.88	N.A.	5.50
70-80	112.13	N.A.	1.70
80-90	15.67	N.A.	0.20
90-110	668.47	N.A.	10.20
90-120	1548.99	N.A.	23.80
90-130	2378.16	N.A.	36.50
90-150	3541.44	N.A.	54.30
90-180	4133.16	N.A.	63.40
110-180	3464.68	N.A.	53.10
0-180	6521.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	95.81
10-20	269.02
20-30	392.14
30-40	449.78
40-50	438.81
50-60	366.55
60-70	248.74
70-80	112.13
80-90	15.67
90-100	119.67
100-110	548.80
110-120	880.52
120-130	829.17
130-140	666.53
140-150	496.76
150-160	336.22
160-170	192.81
170-180	62.69

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

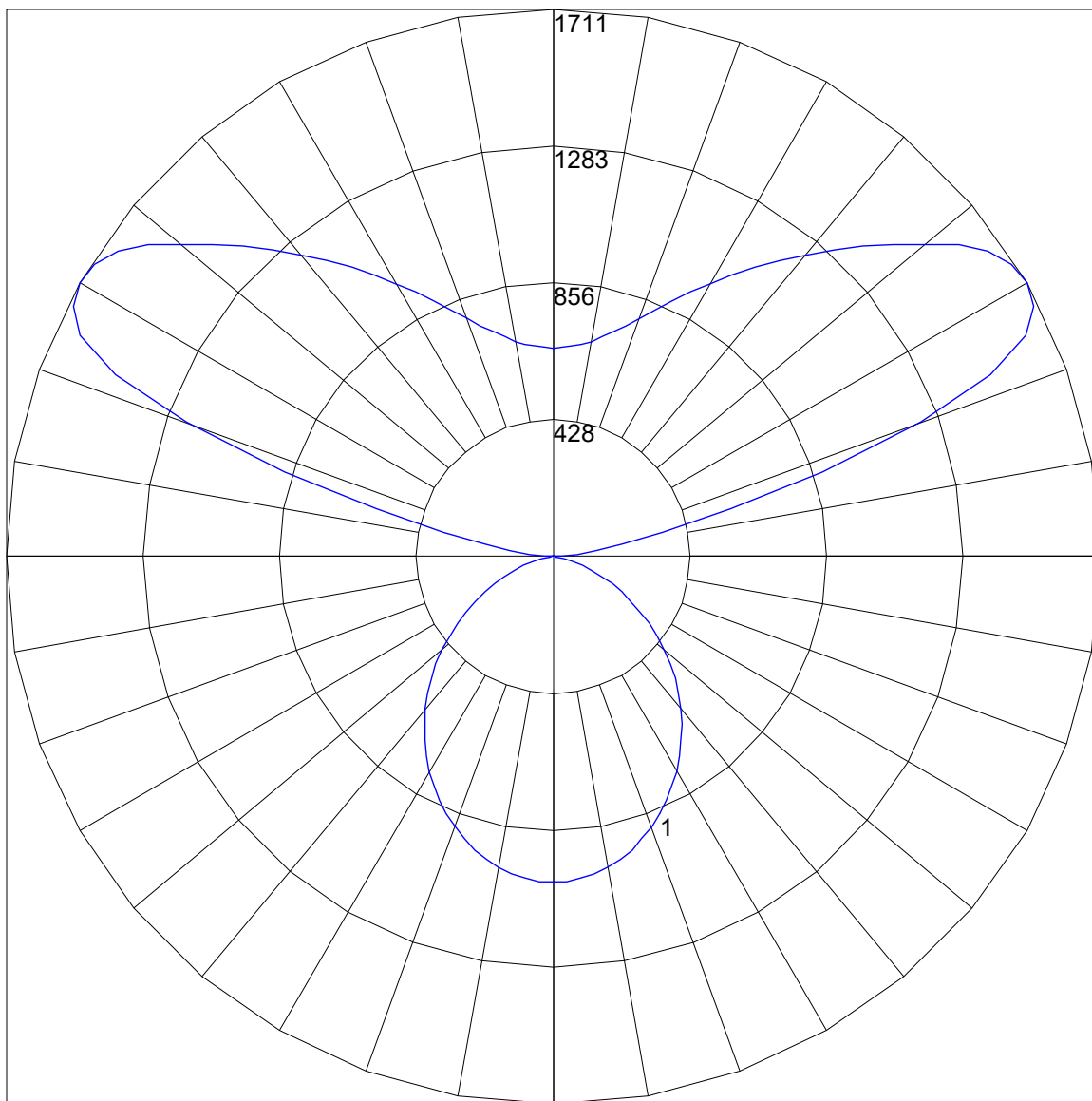
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	39	38	38	32
2	87	80	74	69	78	72	68	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	72	62	55	49	65	57	50	45	46	42	38	37	33	31	28	26	24	20
5	67	55	48	42	60	51	44	39	41	36	33	33	29	27	25	23	21	17
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	23	20	18	15
7	57	45	37	32	51	41	34	29	34	29	25	27	23	21	21	18	16	14
8	52	41	33	28	47	37	31	26	31	26	22	25	21	18	19	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	16	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

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## POLAR GRAPH



Maximum Candela = 1711 Located At Horizontal Angle = 90, Vertical Angle = 120

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