

# 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-H-H-835-WSO-ABL-8H-ITL94474.001.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.001 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-H-H-835-WSO-ABL-8H

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 54.3 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 54.7 WATTS

[\_ABSOLUTE]LUMENS]5602

[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	5602
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	54.3
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)	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	13405	12931	12159
55	12373	11551	10166
65	11185	9453	7662
75	9539	6136	3883
85	7260	569	427

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-H-H-835-WSO-ABL-8H-ITL94474.001.IES

## CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1017.413	1017.413	1017.413	1017.413	1017.413
2.5	1016.636	1015.858	1015.858	1015.858	1015.858
5.0	1011.191	1010.413	1009.635	1009.635	1008.857
7.5	1003.412	1002.635	1001.079	999.523	999.523
10.0	992.523	989.411	988.633	987.078	985.522
12.5	979.299	973.077	973.854	973.077	969.187
15.0	962.965	953.631	956.742	953.631	949.741
17.5	942.741	931.851	934.962	930.295	925.628
20.0	919.406	907.738	910.850	904.627	899.960
22.5	892.959	882.069	882.847	876.625	870.402
25.0	865.735	854.067	854.067	844.733	839.288
27.5	836.955	822.954	822.954	812.842	806.619
30.0	805.063	793.396	790.284	780.173	773.172
32.5	773.172	762.282	757.615	745.170	736.614
35.0	737.391	727.279	721.835	707.056	698.500
37.5	703.944	692.277	686.832	668.942	661.163
40.0	668.164	657.274	650.273	630.050	621.493
42.5	630.050	622.271	611.381	591.158	579.490
45.0	594.269	584.935	573.267	549.932	539.042
47.5	557.711	547.599	534.375	508.707	497.039
50.0	519.596	511.818	493.928	466.703	454.258
52.5	483.038	476.038	455.036	423.922	409.143
55.0	444.924	437.146	415.366	380.363	365.584
57.5	409.143	399.809	374.918	336.804	324.359
60.0	371.029	363.251	332.915	296.357	283.133
62.5	332.915	325.915	290.134	255.909	241.130
65.0	296.357	287.800	250.464	215.461	203.016
67.5	260.576	248.909	210.794	176.570	165.680
70.0	224.018	212.350	172.680	140.011	129.121
72.5	188.237	175.014	134.566	105.786	95.674
75.0	154.790	136.900	99.563	73.117	63.005
77.5	122.899	101.897	66.894	42.003	35.003
80.0	92.563	70.005	35.781	15.557	9.334
82.5	65.338	40.448	10.112	3.889	3.889
85.0	39.670	14.001	3.111	3.111	2.333
87.5	17.113	1.556	1.556	1.556	1.556
90.0	0.000	0.000	0.000	0.000	0.000
92.5	14.779	24.891	39.670	26.447	21.779
95.0	34.225	64.561	122.121	70.783	57.560
97.5	55.227	102.675	221.684	133.788	104.230
100.0	76.228	134.566	356.250	224.018	168.791
102.5	98.786	162.568	472.926	373.363	272.244
105.0	121.343	188.237	553.043	591.158	446.480
107.5	143.900	211.572	588.824	824.509	686.832
110.0	168.013	234.907	605.937	1019.747	952.075
112.5	190.571	258.243	616.826	1132.534	1153.535
115.0	214.684	279.244	623.827	1172.203	1269.433
117.5	238.019	301.024	628.494	1178.426	1317.659
120.0	260.576	320.470	632.383	1168.314	1330.883
122.5	280.022	339.138	634.717	1141.868	1323.104
125.0	297.912	355.472	634.717	1102.198	1292.768
127.5	315.025	370.251	633.161	1057.861	1243.764
130.0	330.582	382.697	632.383	1014.302	1181.537
132.5	345.361	394.364	630.050	969.965	1123.977

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-H-H-835-WSO-ABL-8H-ITL94474.001.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	359.362	406.032	626.160	929.518	1067.195
<b>137.5</b>	373.363	416.922	619.938	889.848	1011.191
<b>140.0</b>	387.364	428.589	612.937	852.511	958.298
<b>142.5</b>	399.809	437.923	605.159	815.175	907.738
<b>145.0</b>	411.477	446.480	595.825	777.839	857.956
<b>147.5</b>	423.922	454.258	585.713	742.836	811.286
<b>150.0</b>	435.590	462.036	574.823	709.389	765.394
<b>152.5</b>	445.702	469.815	565.489	677.498	724.168
<b>155.0</b>	455.814	476.038	559.266	646.384	686.054
<b>157.5</b>	466.703	483.038	550.710	618.382	648.718
<b>160.0</b>	476.815	490.039	541.376	594.269	616.048
<b>162.5</b>	484.594	494.706	532.820	572.490	588.824
<b>165.0</b>	491.594	498.595	526.597	553.821	566.267
<b>167.5</b>	496.261	500.928	520.374	539.042	546.043
<b>170.0</b>	500.151	503.262	514.929	527.375	531.264
<b>172.5</b>	502.484	504.817	511.818	518.041	520.374
<b>175.0</b>	504.817	505.595	508.707	511.040	512.596
<b>177.5</b>	506.373	505.595	506.373	507.151	507.929
<b>180.0</b>	506.373	506.373	506.373	506.373	506.373

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-H-H-835-WSO-ABL-8H-ITL94474.001.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	364.57	N.A.	6.50
0-30	756.43	N.A.	13.50
0-40	1205.89	N.A.	21.50
0-60	2010.68	N.A.	35.90
0-80	2371.3	N.A.	42.30
0-90	2386.96	N.A.	42.60
10-90	2291.22	N.A.	40.90
20-40	841.33	N.A.	15.00
20-50	1279.82	N.A.	22.80
40-70	1053.36	N.A.	18.80
60-80	360.62	N.A.	6.40
70-80	112.05	N.A.	2.00
80-90	15.66	N.A.	0.30
90-110	519.96	N.A.	9.30
90-120	1204.86	N.A.	21.50
90-130	1849.82	N.A.	33.00
90-150	2754.67	N.A.	49.20
90-180	3214.93	N.A.	57.40
110-180	2694.97	N.A.	48.10
0-180	5601.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	95.74
10-20	268.83
20-30	391.86
30-40	449.46
40-50	438.50
50-60	366.29
60-70	248.57
70-80	112.05
80-90	15.66
90-100	93.08
100-110	426.88
110-120	684.90
120-130	644.96
130-140	518.45
140-150	386.40
150-160	261.52
160-170	149.98
170-180	48.76

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-H-H-835-WSO-ABL-8H-ITL94474.001.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

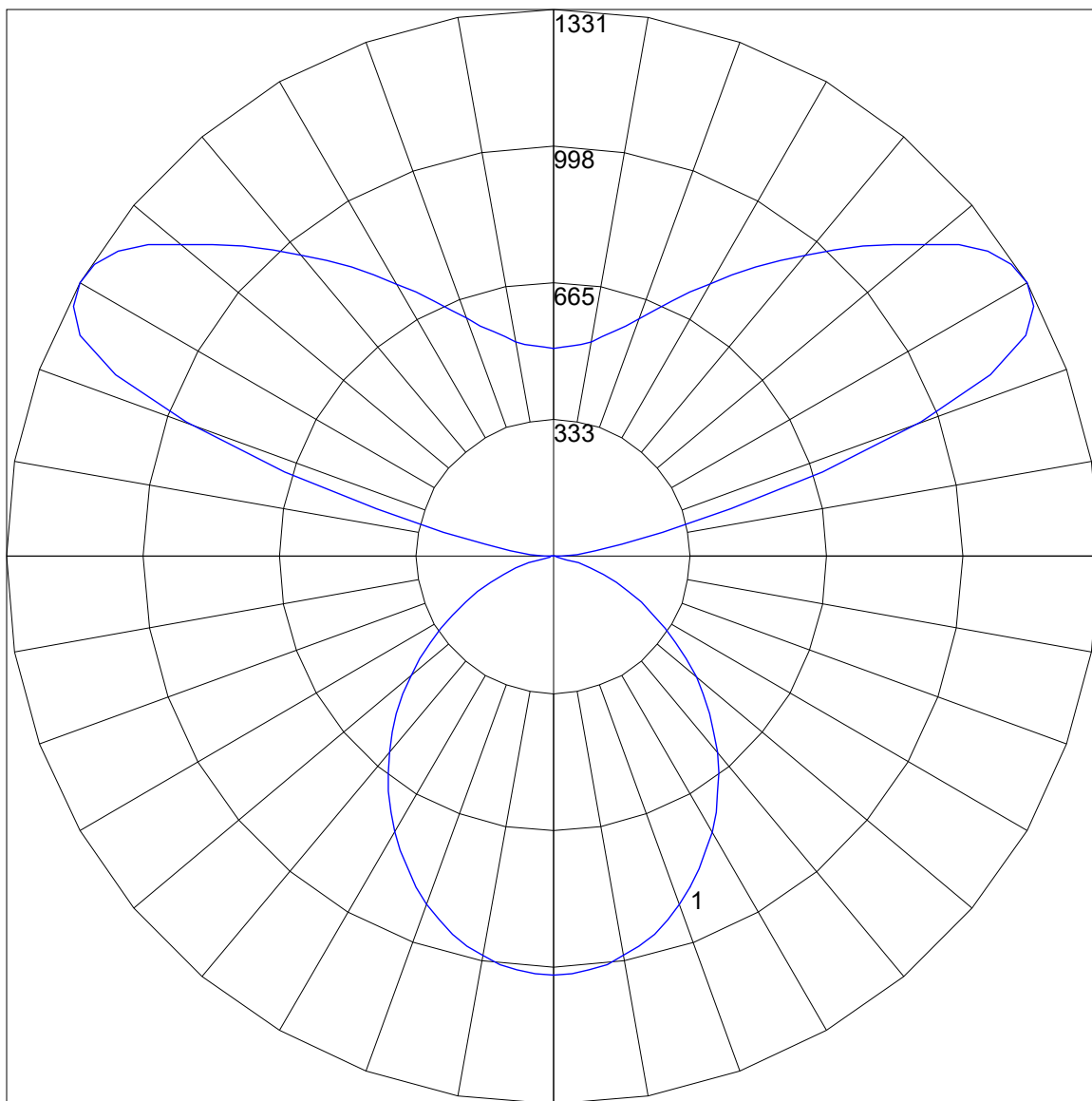
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	97	92	89	85	88	85	81	79	70	68	66	57	55	54	44	43	42	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	59	73	65	59	54	54	50	46	44	41	38	35	33	31	27
4	74	63	56	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23
5	68	56	48	43	62	52	45	40	43	38	34	36	32	29	28	26	23	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	23	21	18	16
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	26	45	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	28	23	43	32	26	22	27	22	19	23	19	16	18	16	14	12

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-H-H-835-WSO-ABL-8H-ITL94474.001.IES

## POLAR GRAPH



Maximum Candela = 1330.883 Located At Horizontal Angle = 90, Vertical Angle = 120  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)