

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-S-835-WSO-ABL-8H-ITL94474.009.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.009 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-S-835-WSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 41.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 42.3 WATTS

[_ABSOLUTE]LUMENS]4471

[OTHER]see 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4471
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	41
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	7054	6805	6399
55	6511	6078	5350
65	5886	4975	4032
75	5020	3229	2043
85	3821	300	225

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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	535.405	535.405	535.405	535.405	535.405
2.5	534.996	534.586	534.586	534.586	534.586
5.0	532.130	531.721	531.312	531.312	530.902
7.5	528.037	527.628	526.809	525.990	525.990
10.0	522.306	520.669	520.260	519.441	518.622
12.5	515.348	512.073	512.482	512.073	510.026
15.0	506.752	501.840	503.477	501.840	499.793
17.5	496.109	490.378	492.016	489.560	487.104
20.0	483.829	477.689	479.327	476.052	473.596
22.5	469.912	464.181	464.591	461.316	458.041
25.0	455.585	449.445	449.445	444.534	441.668
27.5	440.440	433.072	433.072	427.751	424.476
30.0	423.658	417.518	415.880	410.559	406.875
32.5	406.875	401.144	398.688	392.139	387.636
35.0	388.046	382.724	379.859	372.082	367.579
37.5	370.445	364.305	361.439	352.025	347.931
40.0	351.615	345.885	342.201	331.558	327.055
42.5	331.558	327.465	321.734	311.092	304.952
45.0	312.729	307.817	301.677	289.397	283.666
47.5	293.490	288.169	281.210	267.702	261.563
50.0	273.433	269.340	259.925	245.599	239.049
52.5	254.195	250.511	239.459	223.085	215.308
55.0	234.137	230.044	218.583	200.163	192.386
57.5	215.308	210.396	197.298	177.240	170.691
60.0	195.251	191.158	175.194	155.955	148.996
62.5	175.194	171.510	152.680	134.670	126.893
65.0	155.955	151.452	131.805	113.385	106.835
67.5	137.126	130.986	110.929	92.918	87.188
70.0	117.887	111.747	90.871	73.680	67.949
72.5	99.058	92.100	70.814	55.669	50.348
75.0	81.457	72.042	52.394	38.477	33.156
77.5	64.674	53.622	35.203	22.104	18.420
80.0	48.710	36.840	18.829	8.187	4.912
82.5	34.384	21.285	5.321	2.047	2.047
85.0	20.876	7.368	1.637	1.637	1.228
87.5	9.005	0.819	0.819	0.819	0.819
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-S-835-WSO-ABL-8H-ITL94474.009.IES****CANDELA TABULATION - (Cont.)**

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-H-S-835-WSO-ABL-8H-ITL94474.009.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	191.85	N.A.	4.30
0-30	398.06	N.A.	8.90
0-40	634.59	N.A.	14.20
0-60	1058.1	N.A.	23.70
0-80	1247.88	N.A.	27.90
0-90	1256.12	N.A.	28.10
10-90	1205.73	N.A.	27.00
20-40	442.74	N.A.	9.90
20-50	673.50	N.A.	15.10
40-70	554.32	N.A.	12.40
60-80	189.77	N.A.	4.20
70-80	58.97	N.A.	1.30
80-90	8.24	N.A.	0.20
90-110	519.96	N.A.	11.60
90-120	1204.86	N.A.	26.90
90-130	1849.82	N.A.	41.40
90-150	2754.67	N.A.	61.60
90-180	3214.93	N.A.	71.90
110-180	2694.97	N.A.	60.30
0-180	4471.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.38
10-20	141.47
20-30	206.21
30-40	236.53
40-50	230.76
50-60	192.76
60-70	130.81
70-80	58.97
80-90	8.24
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

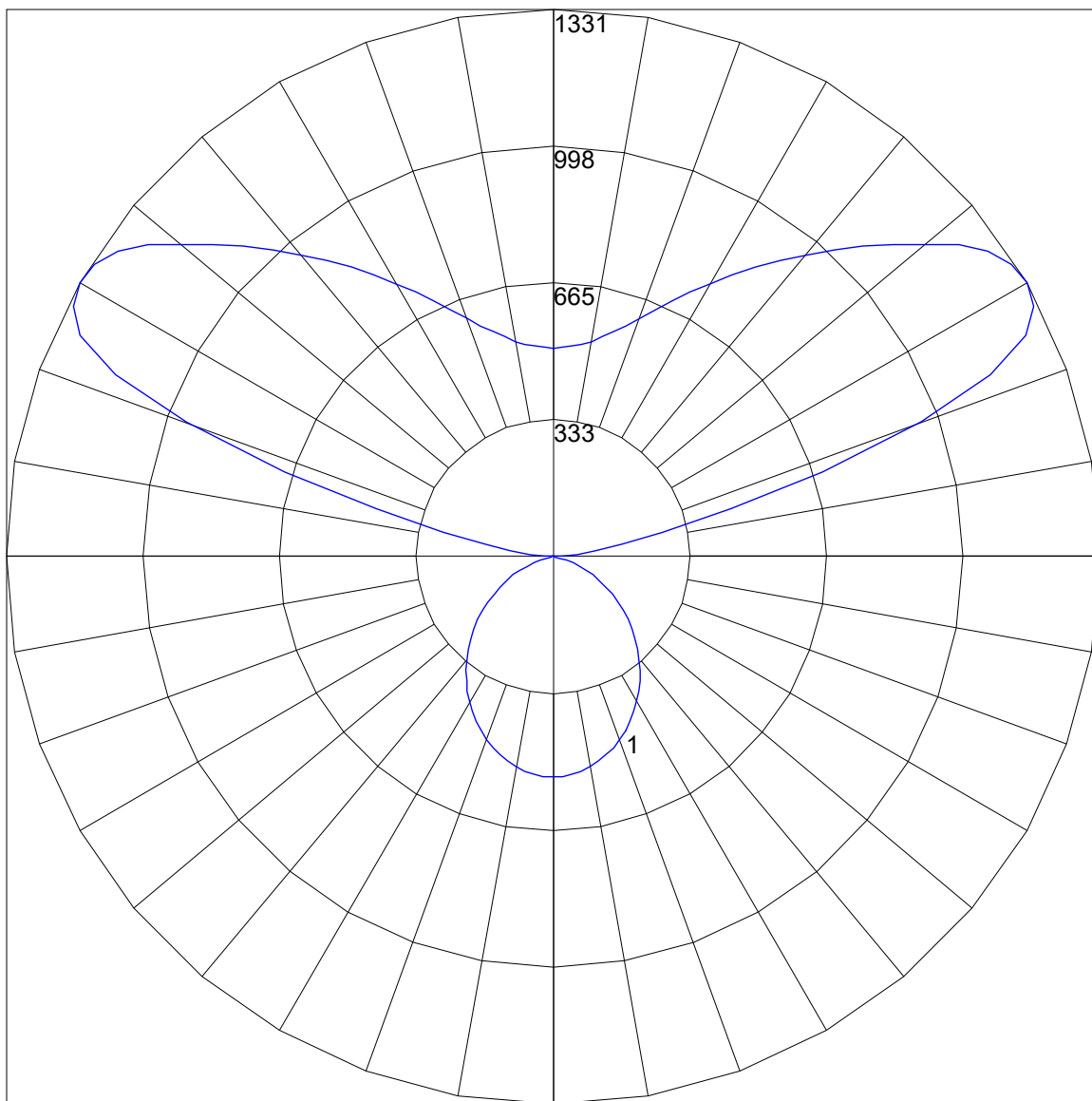
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	63	61	59	47	46	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	29	27	26	21
3	77	69	62	56	69	62	56	51	49	45	41	37	34	32	25	24	22	18
4	71	61	53	47	63	55	48	43	43	39	35	33	30	27	23	21	19	15
5	65	54	46	41	58	49	42	37	39	34	30	29	26	23	20	19	17	13
6	60	48	41	35	53	44	37	32	35	30	26	26	23	21	19	17	15	12
7	55	43	36	31	49	39	33	28	31	27	23	24	21	18	17	15	13	10
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	24	20	24	19	16	18	15	13	13	11	10	8

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.)