

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-S-V-835-WSO-ABL-8H-ITL94474.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.013 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-S-V-835-WSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 49.3 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 50.4 WATTS

[_ABSOLUTE]LUMENS]4761

[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	4761
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	49.3
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
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	17234	16625	15632
55	15907	14850	13070
65	14380	12153	9851
75	12264	7888	4992
85	9333	732	549

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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	1308.000	1308.000	1308.000	1308.000	1308.000
2.5	1307.000	1306.000	1306.000	1306.000	1306.000
5.0	1300.000	1299.000	1298.000	1298.000	1297.000
7.5	1290.000	1289.000	1287.000	1285.000	1285.000
10.0	1276.000	1272.000	1271.000	1269.000	1267.000
12.5	1259.000	1251.000	1252.000	1251.000	1246.000
15.0	1238.000	1226.000	1230.000	1226.000	1221.000
17.5	1212.000	1198.000	1202.000	1196.000	1190.000
20.0	1182.000	1167.000	1171.000	1163.000	1157.000
22.5	1148.000	1134.000	1135.000	1127.000	1119.000
25.0	1113.000	1098.000	1098.000	1086.000	1079.000
27.5	1076.000	1058.000	1058.000	1045.000	1037.000
30.0	1035.000	1020.000	1016.000	1003.000	994.000
32.5	994.000	980.000	974.000	958.000	947.000
35.0	948.000	935.000	928.000	909.000	898.000
37.5	905.000	890.000	883.000	860.000	850.000
40.0	859.000	845.000	836.000	810.000	799.000
42.5	810.000	800.000	786.000	760.000	745.000
45.0	764.000	752.000	737.000	707.000	693.000
47.5	717.000	704.000	687.000	654.000	639.000
50.0	668.000	658.000	635.000	600.000	584.000
52.5	621.000	612.000	585.000	545.000	526.000
55.0	572.000	562.000	534.000	489.000	470.000
57.5	526.000	514.000	482.000	433.000	417.000
60.0	477.000	467.000	428.000	381.000	364.000
62.5	428.000	419.000	373.000	329.000	310.000
65.0	381.000	370.000	322.000	277.000	261.000
67.5	335.000	320.000	271.000	227.000	213.000
70.0	288.000	273.000	222.000	180.000	166.000
72.5	242.000	225.000	173.000	136.000	123.000
75.0	199.000	176.000	128.000	94.000	81.000
77.5	158.000	131.000	86.000	54.000	45.000
80.0	119.000	90.000	46.000	20.000	12.000
82.5	84.000	52.000	13.000	5.000	5.000
85.0	51.000	18.000	4.000	4.000	3.000
87.5	22.000	2.000	2.000	2.000	2.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	7.777	13.099	20.876	13.917	11.461
95.0	18.011	33.974	64.265	37.249	30.291
97.5	29.063	54.032	116.659	70.405	54.850
100.0	40.114	70.814	187.474	117.887	88.825
102.5	51.985	85.550	248.873	196.479	143.266
105.0	63.856	99.058	291.034	311.092	234.956
107.5	75.726	111.338	309.864	433.891	361.439
110.0	88.415	123.618	318.869	536.633	501.021
112.5	100.286	135.898	324.599	595.986	607.038
115.0	112.975	146.950	328.283	616.862	668.028
117.5	125.255	158.411	330.739	620.136	693.407
120.0	137.126	168.644	332.786	614.815	700.365
122.5	147.359	178.468	334.014	600.898	696.272
125.0	156.774	187.064	334.014	580.022	680.308
127.5	165.779	194.842	333.195	556.690	654.520
130.0	173.966	201.391	332.786	533.768	621.774
132.5	181.743	207.531	331.558	510.436	591.483

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-S-V-835-WSO-ABL-8H-ITL94474.013.IES****CANDELA TABULATION - (Cont.)**

135.0	189.111	213.671	329.511	489.151	561.602
137.5	196.479	219.401	326.237	468.275	532.130
140.0	203.847	225.541	322.553	448.627	504.296
142.5	210.396	230.453	318.459	428.979	477.689
145.0	216.536	234.956	313.548	409.331	451.492
147.5	223.085	239.049	308.226	390.911	426.932
150.0	229.225	243.143	302.496	373.310	402.782
152.5	234.547	247.236	297.584	356.527	381.087
155.0	239.868	250.511	294.309	340.154	361.030
157.5	245.599	254.195	289.806	325.418	341.382
160.0	250.920	257.878	284.894	312.729	324.190
162.5	255.013	260.334	280.392	301.268	309.864
165.0	258.697	262.381	277.117	291.444	297.993
167.5	261.153	263.609	273.842	283.666	287.350
170.0	263.200	264.837	270.977	277.526	279.573
172.5	264.428	265.656	269.340	272.614	273.842
175.0	265.656	266.065	267.702	268.930	269.749
177.5	266.474	266.065	266.474	266.884	267.293
180.0	266.474	266.474	266.474	266.474	266.474

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-S-V-835-WSO-ABL-8H-ITL94474.013.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	468.69	N.A.	9.80
0-30	972.47	N.A.	20.40
0-40	1550.31	N.A.	32.60
0-60	2584.96	N.A.	54.30
0-80	3048.57	N.A.	64.00
0-90	3068.7	N.A.	64.50
10-90	2945.62	N.A.	61.90
20-40	1081.62	N.A.	22.70
20-50	1645.36	N.A.	34.60
40-70	1354.21	N.A.	28.40
60-80	463.62	N.A.	9.70
70-80	144.06	N.A.	3.00
80-90	20.13	N.A.	0.40
90-110	273.63	N.A.	5.70
90-120	634.05	N.A.	13.30
90-130	973.45	N.A.	20.40
90-150	1449.62	N.A.	30.50
90-180	1691.83	N.A.	35.50
110-180	1418.2	N.A.	29.80
0-180	4760.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.08
10-20	345.61
20-30	503.78
30-40	577.84
40-50	563.74
50-60	470.91
60-70	319.56
70-80	144.06
80-90	20.13
90-100	48.98
100-110	224.64
110-120	360.42
120-130	339.40
130-140	272.83
140-150	203.34
150-160	137.62
160-170	78.92
170-180	25.66

IES INDOOR REPORT

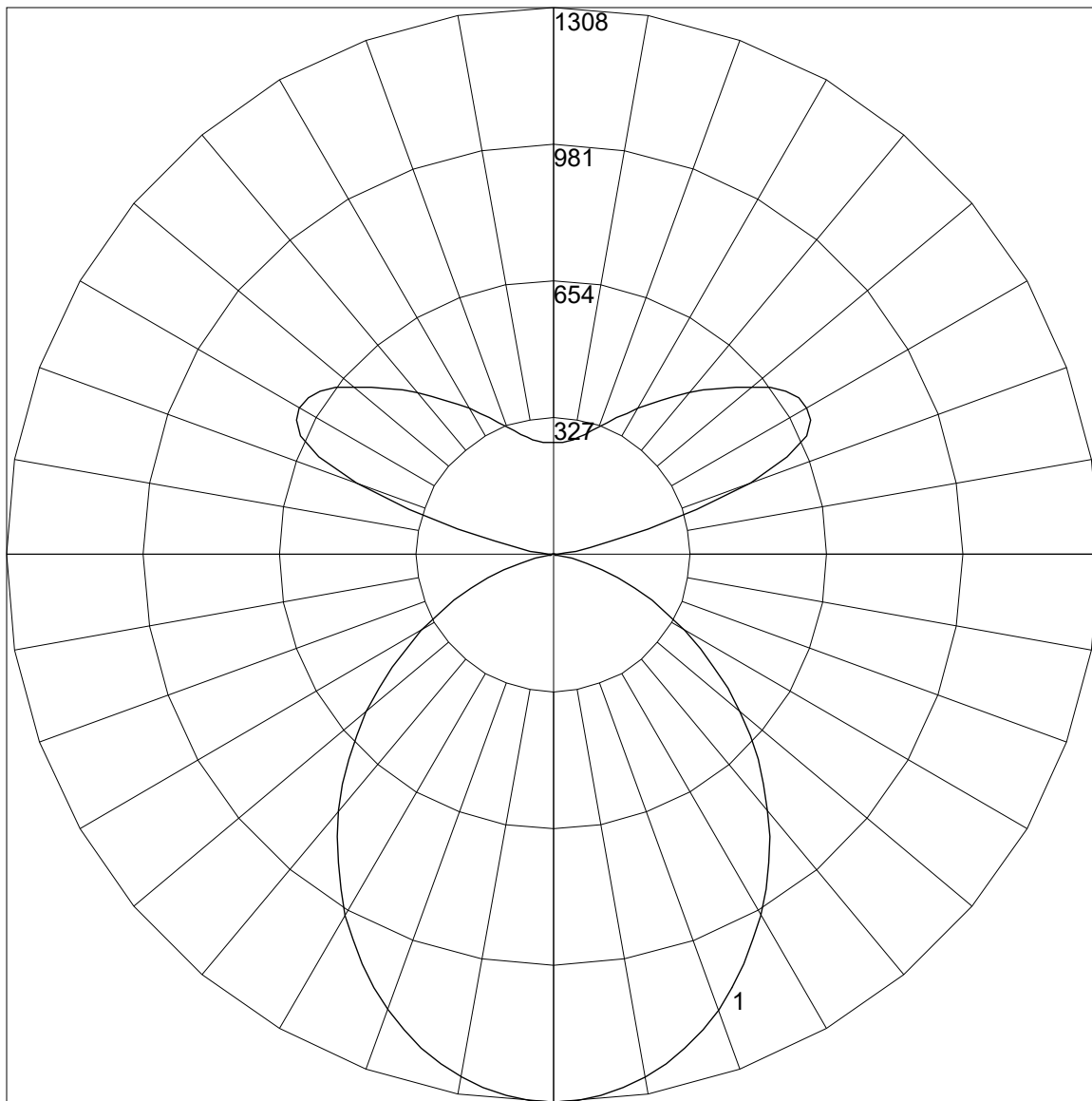
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	102	97	94	90	95	92	88	85	81	79	76	71	69	68	62	61	60	55
2	93	86	79	74	87	81	75	71	72	67	64	63	60	57	55	53	51	47
3	85	75	68	62	80	71	65	60	63	58	54	56	52	49	49	46	44	40
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	44	41	38	35
5	72	60	52	46	67	57	49	44	51	45	40	45	40	37	40	36	33	30
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	36	32	29	27
7	61	49	41	35	57	46	39	34	42	36	31	37	32	29	33	29	26	24
8	57	45	37	31	54	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	28	24	21	19
10	50	38	30	25	47	36	29	25	32	27	23	29	24	21	26	22	19	18

POLAR GRAPH



Maximum Candela = 1308 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)