

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-S-835-WSO-ABL-8H-ITL94474.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.003 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-S-835-WSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 27.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 29.9 WATTS

[_ABSOLUTE]LUMENS]2948

[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	2948
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	27.7
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	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	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-S-835-WSO-ABL-8H-ITL94474.003.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-S-835-WSO-ABL-8H-ITL94474.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	191.85	N.A.	6.50
0-30	398.06	N.A.	13.50
0-40	634.59	N.A.	21.50
0-60	1058.1	N.A.	35.90
0-80	1247.88	N.A.	42.30
0-90	1256.12	N.A.	42.60
10-90	1205.73	N.A.	40.90
20-40	442.74	N.A.	15.00
20-50	673.50	N.A.	22.80
40-70	554.32	N.A.	18.80
60-80	189.77	N.A.	6.40
70-80	58.97	N.A.	2.00
80-90	8.24	N.A.	0.30
90-110	273.63	N.A.	9.30
90-120	634.05	N.A.	21.50
90-130	973.45	N.A.	33.00
90-150	1449.62	N.A.	49.20
90-180	1691.83	N.A.	57.40
110-180	1418.2	N.A.	48.10
0-180	2947.94	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	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

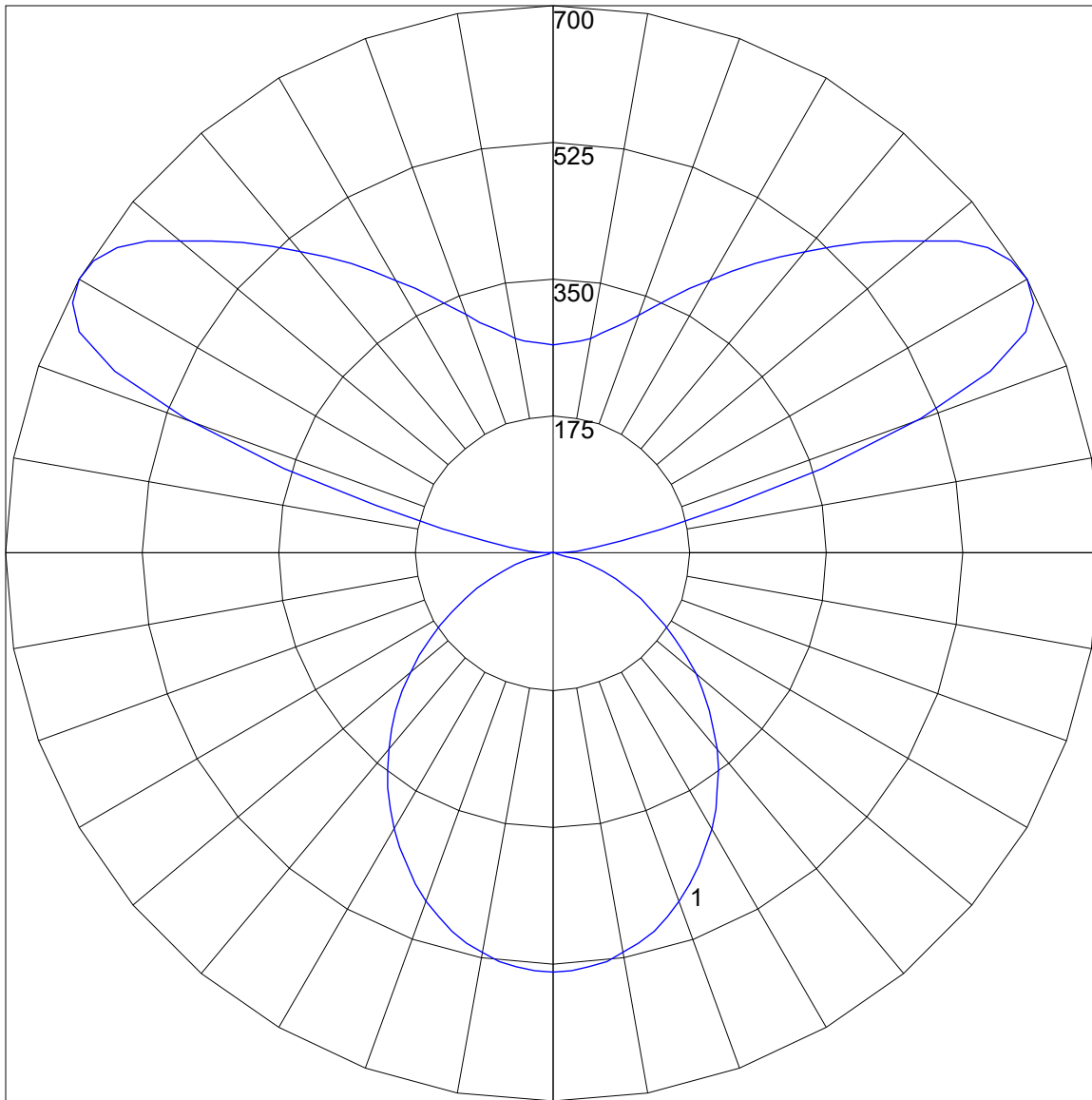
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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

POLAR GRAPH



Maximum Candela = 700.365 Located At Horizontal Angle = 90, Vertical Angle = 120
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)