

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-B-835-WSO-ABL-8H-ITL94474.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.015 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-B-835-WSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 31.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 33.4 WATTS

[_ABSOLUTE]LUMENS]3271

[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	3271
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	31.5
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	8868	8555	8044
55	8185	7641	6726
65	7399	6254	5069
75	6311	4059	2569
85	4803	377	283

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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	673.069	673.069	673.069	673.069	673.069
2.5	672.555	672.040	672.040	672.040	672.040
5.0	668.953	668.438	667.923	667.923	667.409
7.5	663.807	663.292	662.263	661.234	661.234
10.0	656.603	654.544	654.030	653.001	651.972
12.5	647.855	643.738	644.253	643.738	641.165
15.0	637.049	630.874	632.932	630.874	628.301
17.5	623.670	616.466	618.524	615.437	612.349
20.0	608.232	600.514	602.572	598.455	595.368
22.5	590.737	583.533	584.047	579.931	575.814
25.0	572.726	565.008	565.008	558.833	555.231
27.5	553.687	544.425	544.425	537.735	533.618
30.0	532.589	524.871	522.812	516.123	511.491
32.5	511.491	504.287	501.200	492.967	487.306
35.0	487.821	481.131	477.529	467.752	462.092
37.5	465.694	457.975	454.373	442.538	437.392
40.0	442.023	434.819	430.188	416.809	411.149
42.5	416.809	411.663	404.459	391.080	383.361
45.0	393.138	386.963	379.245	363.807	356.603
47.5	368.953	362.264	353.516	336.535	328.816
50.0	343.739	338.593	326.758	308.747	300.514
52.5	319.554	314.922	301.029	280.446	270.668
55.0	294.339	289.193	274.785	251.629	241.852
57.5	270.668	264.494	248.027	222.813	214.579
60.0	245.454	240.308	220.240	196.055	187.307
62.5	220.240	215.609	191.938	169.297	159.519
65.0	196.055	190.394	165.694	142.538	134.305
67.5	172.384	164.665	139.451	116.809	109.605
70.0	148.199	140.480	114.237	92.624	85.420
72.5	124.528	115.780	89.022	69.983	63.293
75.0	102.401	90.566	65.866	48.370	41.681
77.5	81.303	67.410	44.254	27.787	23.156
80.0	61.235	46.312	23.671	10.292	6.175
82.5	43.225	26.758	6.689	2.573	2.573
85.0	26.244	9.262	2.058	2.058	1.544
87.5	11.321	1.029	1.029	1.029	1.029
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-B-835-WSO-ABL-8H-ITL94474.015.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-B-835-WSO-ABL-8H-ITL94474.015.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	241.18	N.A.	7.40
0-30	500.41	N.A.	15.30
0-40	797.76	N.A.	24.40
0-60	1330.16	N.A.	40.70
0-80	1568.73	N.A.	48.00
0-90	1579.09	N.A.	48.30
10-90	1515.75	N.A.	46.30
20-40	556.58	N.A.	17.00
20-50	846.67	N.A.	25.90
40-70	696.85	N.A.	21.30
60-80	238.57	N.A.	7.30
70-80	74.13	N.A.	2.30
80-90	10.36	N.A.	0.30
90-110	273.63	N.A.	8.40
90-120	634.05	N.A.	19.40
90-130	973.45	N.A.	29.80
90-150	1449.62	N.A.	44.30
90-180	1691.83	N.A.	51.70
110-180	1418.2	N.A.	43.40
0-180	3270.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.34
10-20	177.84
20-30	259.24
30-40	297.34
40-50	290.09
50-60	242.32
60-70	164.44
70-80	74.13
80-90	10.36
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

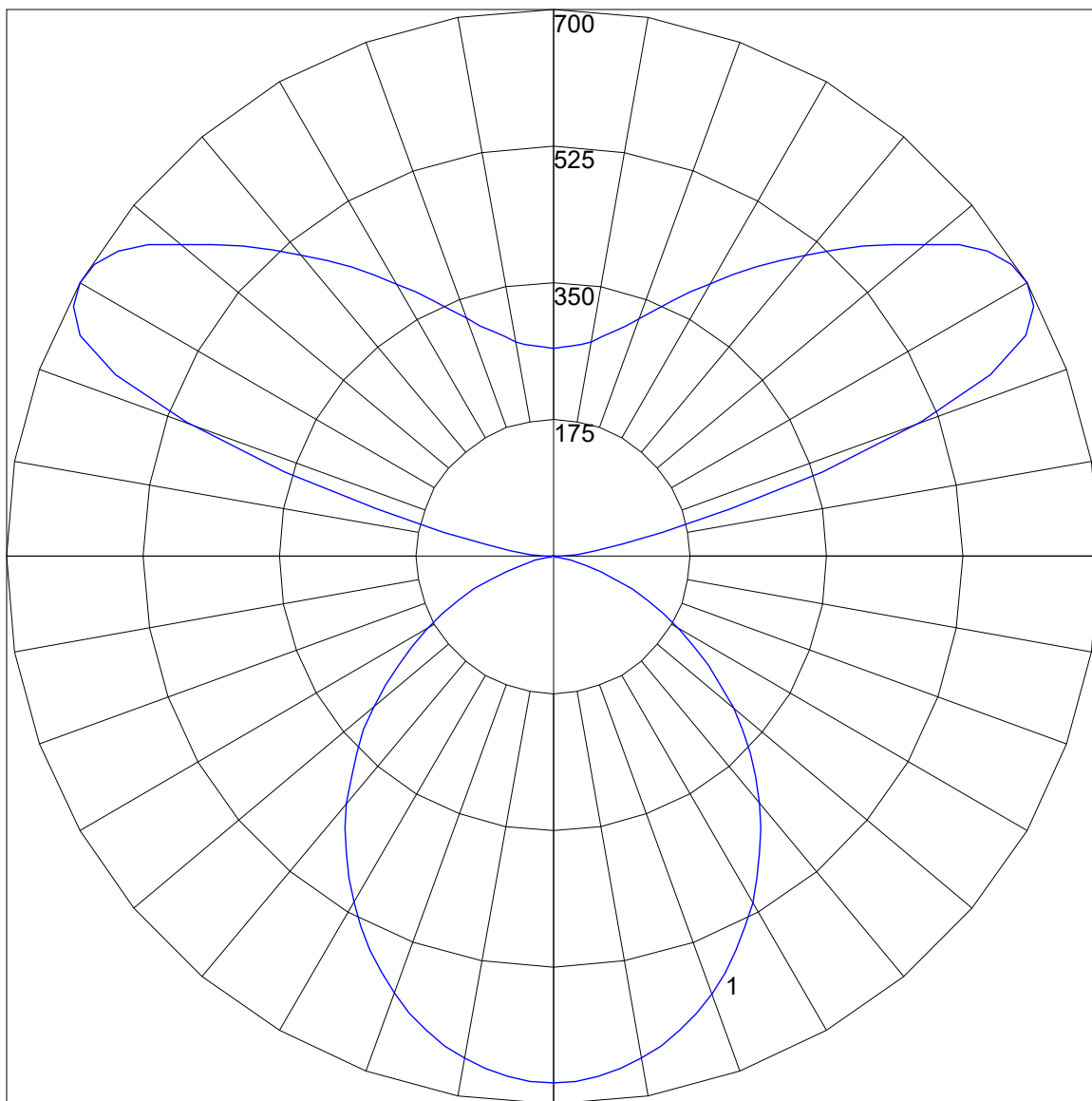
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	98	94	90	87	90	86	83	80	73	71	69	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35
3	82	72	65	60	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	51	69	59	53	47	51	45	41	42	39	35	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	35	29	50	39	33	28	34	28	25	29	25	21	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	24	44	33	27	22	29	23	20	24	20	18	20	17	15	13

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.)