

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-B-B-835-WSO-ABL-8H-ITL94474.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.002 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-B-B-835-WSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 35.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 36.9 WATTS

[_ABSOLUTE]LUMENS]3706

[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	3706
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	35.2
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	667.924	667.924	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	615.436	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	511.492
32.5	511.492	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	270.669
55.0	294.339	289.193	274.785	251.629	241.852
57.5	270.669	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	169.296	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	6.690	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	9.777	16.467	26.244	17.496	14.408
95.0	22.641	42.710	80.789	46.827	38.079
97.5	36.535	67.924	146.655	88.508	68.954
100.0	50.429	89.022	235.677	148.199	111.664
102.5	65.352	107.547	312.864	246.998	180.103
105.0	80.274	124.528	365.866	391.080	295.368
107.5	95.197	139.965	389.536	545.454	454.373
110.0	111.149	155.403	400.857	674.613	629.845
112.5	126.072	170.840	408.061	749.227	763.121
115.0	142.024	184.734	412.692	775.471	839.793
117.5	157.461	199.142	415.780	779.587	871.697
120.0	172.384	212.007	418.353	772.898	880.445
122.5	185.248	224.356	419.896	755.402	875.299
125.0	197.084	235.163	419.896	729.158	855.230
127.5	208.404	244.940	418.867	699.827	822.812
130.0	218.696	253.173	418.353	671.011	781.646
132.5	228.473	260.892	416.809	641.680	743.567

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-B-B-835-WSO-ABL-8H-ITL94474.002.IES****CANDELA TABULATION - (Cont.)**

135.0	237.736	268.610	414.236	614.922	706.002
137.5	246.998	275.814	410.119	588.678	668.953
140.0	256.260	283.533	405.488	563.979	633.961
142.5	264.494	289.708	400.342	539.279	600.514
145.0	272.212	295.368	394.168	514.579	567.581
147.5	280.446	300.514	387.478	491.423	536.706
150.0	288.164	305.660	380.274	469.296	506.346
152.5	294.854	310.806	374.099	448.198	479.073
155.0	301.543	314.922	369.982	427.615	453.859
157.5	308.747	319.554	364.322	409.090	429.159
160.0	315.437	324.185	358.147	393.138	407.547
162.5	320.583	327.272	352.487	378.730	389.536
165.0	325.214	329.845	348.370	366.380	374.614
167.5	328.301	331.389	344.253	356.603	361.234
170.0	330.874	332.933	340.651	348.885	351.457
172.5	332.418	333.962	338.593	342.710	344.253
175.0	333.962	334.476	336.535	338.078	339.108
177.5	334.991	334.476	334.991	335.505	336.020
180.0	334.991	334.991	334.991	334.991	334.991

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-P-ID-4FT-B-B-835-WSO-ABL-8H-ITL94474.002.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	241.18	N.A.	6.50
0-30	500.41	N.A.	13.50
0-40	797.76	N.A.	21.50
0-60	1330.16	N.A.	35.90
0-80	1568.73	N.A.	42.30
0-90	1579.09	N.A.	42.60
10-90	1515.75	N.A.	40.90
20-40	556.58	N.A.	15.00
20-50	846.67	N.A.	22.80
40-70	696.85	N.A.	18.80
60-80	238.57	N.A.	6.40
70-80	74.13	N.A.	2.00
80-90	10.36	N.A.	0.30
90-110	343.98	N.A.	9.30
90-120	797.08	N.A.	21.50
90-130	1223.75	N.A.	33.00
90-150	1822.35	N.A.	49.20
90-180	2126.84	N.A.	57.40
110-180	1782.85	N.A.	48.10
0-180	3705.93	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	61.58
100-110	282.40
110-120	453.10
120-130	426.67
130-140	342.98
140-150	255.62
150-160	173.01
160-170	99.22
170-180	32.26

IES INDOOR REPORT

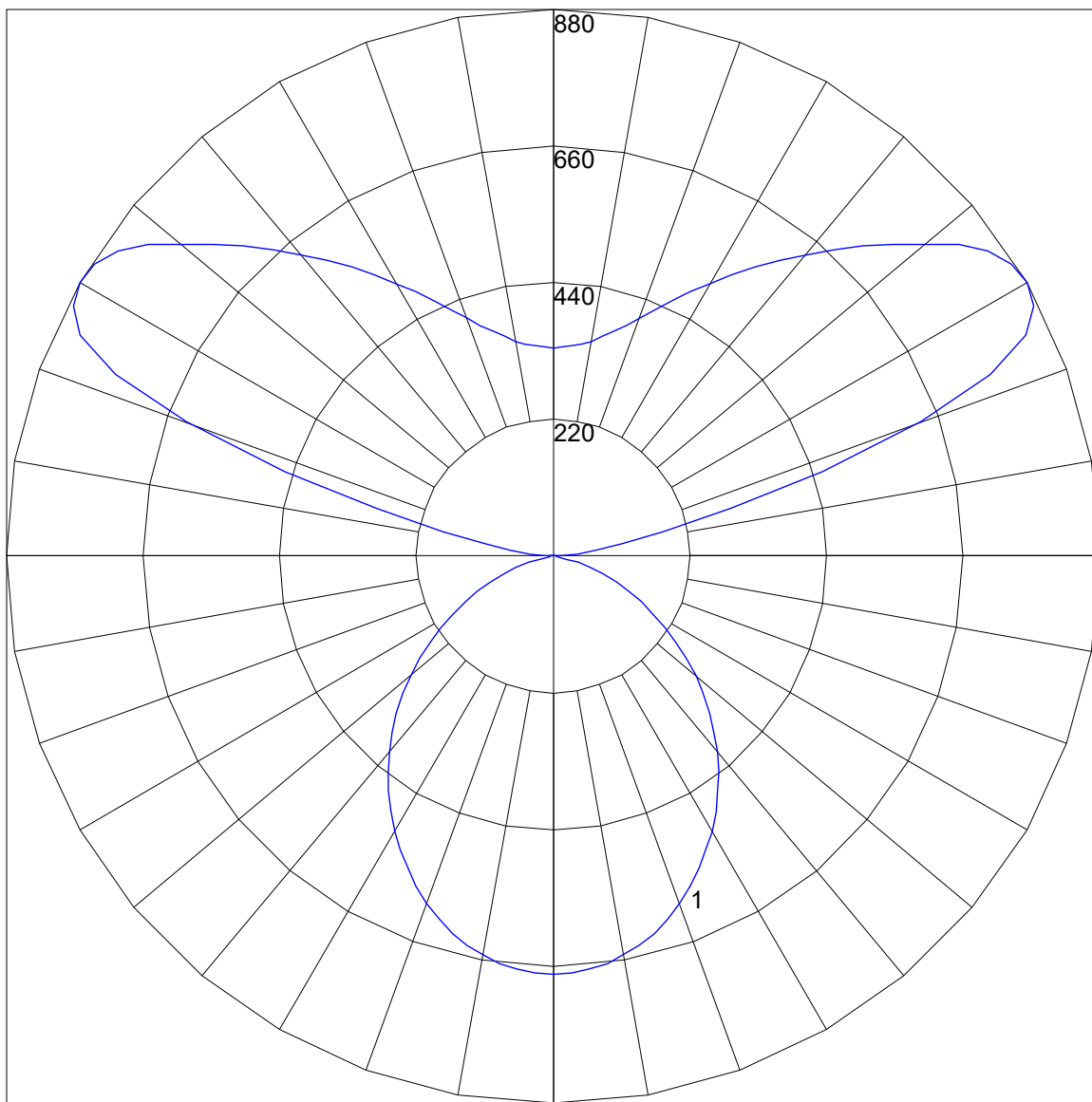
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 880.445 Located At Horizontal Angle = 90, Vertical Angle = 120
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)