

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-B-835-WSO-ABL-8H-ITL94474.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.008 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-B-835-WSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 44.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 45.8 WATTS

[_ABSOLUTE]LUMENS]4794

[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	4794
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	44.8
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	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	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	553.044	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	1243.765
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-B-835-WSO-ABL-8H-ITL94474.008.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	852.512	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	476.037	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	500.150	503.262	514.929	527.375	531.264
172.5	502.484	504.818	511.818	518.041	520.374
175.0	504.818	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

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Zone	Lumens	%Lamp	%Fixt
0-20	241.18	N.A.	5.00
0-30	500.41	N.A.	10.40
0-40	797.76	N.A.	16.60
0-60	1330.16	N.A.	27.70
0-80	1568.73	N.A.	32.70
0-90	1579.09	N.A.	32.90
10-90	1515.75	N.A.	31.60
20-40	556.58	N.A.	11.60
20-50	846.67	N.A.	17.70
40-70	696.85	N.A.	14.50
60-80	238.57	N.A.	5.00
70-80	74.13	N.A.	1.50
80-90	10.36	N.A.	0.20
90-110	519.96	N.A.	10.80
90-120	1204.86	N.A.	25.10
90-130	1849.82	N.A.	38.60
90-150	2754.67	N.A.	57.50
90-180	3214.93	N.A.	67.10
110-180	2694.97	N.A.	56.20
0-180	4794.02	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	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

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

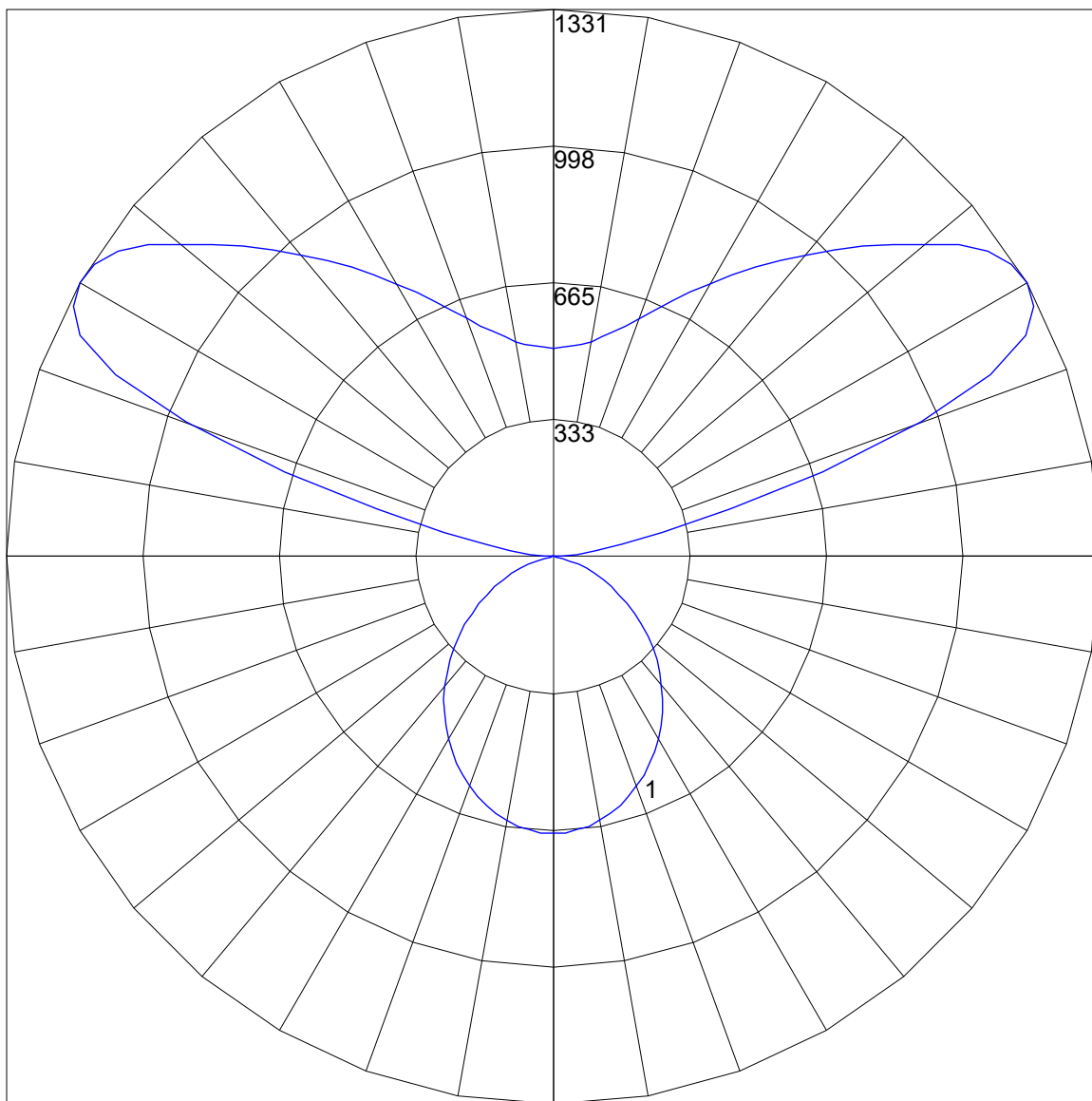
Effective Floor Cavity Reflectance 0.20

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	87	83	85	81	78	76	65	63	61	50	49	47	36	35	35	28
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	31	30	24
3	78	69	62	57	70	63	57	52	51	46	43	39	36	34	29	27	25	21
4	72	61	54	48	64	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	32	31	28	25	23	21	19	16
6	61	49	41	36	54	45	38	33	36	31	27	28	25	22	21	19	17	14
7	56	44	37	31	50	40	34	29	33	28	24	26	22	20	19	17	15	12
8	52	40	33	27	47	37	30	25	30	25	21	23	20	17	18	15	13	11
9	48	36	29	24	43	33	27	23	27	22	19	22	18	16	16	14	12	10
10	45	33	26	22	41	31	24	20	25	20	17	20	16	14	15	13	11	9

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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.)