

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-H-835-WSO-ABL-8H-ITL94474.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL94474.014 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-H-835-WSO-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 41.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 42.3 WATTS

[_ABSOLUTE]LUMENS]4079

[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	4080
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	41
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	13415	12940	12168
55	12381	11559	10174
65	11193	9460	7668
75	9546	6140	3886
85	7265	570	427

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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	1018.134	1018.134	1018.134	1018.134	1018.134
2.5	1017.356	1016.577	1016.577	1016.577	1016.577
5.0	1011.907	1011.129	1010.350	1010.350	1009.572
7.5	1004.123	1003.345	1001.788	1000.231	1000.231
10.0	993.226	990.112	989.334	987.777	986.220
12.5	979.993	973.766	974.544	973.766	969.874
15.0	963.647	954.306	957.420	954.306	950.414
17.5	943.409	932.511	935.625	930.954	926.284
20.0	920.057	908.381	911.495	905.268	900.597
22.5	893.592	882.694	883.473	877.246	871.018
25.0	866.348	854.672	854.672	845.332	839.883
27.5	837.548	823.537	823.537	813.418	807.190
30.0	805.634	793.958	790.844	780.725	773.720
32.5	773.720	762.822	758.152	745.698	737.135
35.0	737.914	727.795	722.346	707.557	698.994
37.5	704.443	692.767	687.318	669.415	661.631
40.0	668.637	657.740	650.734	630.496	621.934
42.5	630.496	622.712	611.815	591.576	579.901
45.0	594.690	585.349	573.673	550.322	539.424
47.5	558.106	547.987	534.754	509.067	497.391
50.0	519.965	512.181	494.278	467.034	454.580
52.5	483.380	476.375	455.358	424.223	409.433
55.0	445.239	437.455	415.660	380.633	365.843
57.5	409.433	400.092	375.184	337.043	324.589
60.0	371.292	363.508	333.151	296.567	283.334
62.5	333.151	326.145	290.339	256.090	241.301
65.0	296.567	288.004	250.642	215.614	203.160
67.5	260.761	249.085	210.944	176.695	165.797
70.0	224.176	212.500	172.803	140.110	129.213
72.5	188.370	175.138	134.661	105.861	95.742
75.0	154.900	136.997	99.634	73.169	63.050
77.5	122.986	101.969	66.942	42.033	35.028
80.0	92.628	70.055	35.806	15.568	9.341
82.5	65.385	40.476	10.119	3.892	3.892
85.0	39.698	14.011	3.114	3.114	2.335
87.5	17.125	1.557	1.557	1.557	1.557
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	30.290
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-H-835-WSO-ABL-8H-ITL94474.014.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	318.460	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	257.879	284.894	312.729	324.190
162.5	255.013	260.335	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-H-835-WSO-ABL-8H-ITL94474.014.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	364.82	N.A.	8.90
0-30	756.96	N.A.	18.60
0-40	1206.75	N.A.	29.60
0-60	2012.1	N.A.	49.30
0-80	2372.98	N.A.	58.20
0-90	2388.65	N.A.	58.50
10-90	2292.84	N.A.	56.20
20-40	841.92	N.A.	20.60
20-50	1280.73	N.A.	31.40
40-70	1054.1	N.A.	25.80
60-80	360.88	N.A.	8.80
70-80	112.13	N.A.	2.70
80-90	15.67	N.A.	0.40
90-110	273.63	N.A.	6.70
90-120	634.05	N.A.	15.50
90-130	973.45	N.A.	23.90
90-150	1449.62	N.A.	35.50
90-180	1691.83	N.A.	41.50
110-180	1418.2	N.A.	34.80
0-180	4080.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	95.81
10-20	269.02
20-30	392.14
30-40	449.78
40-50	438.81
50-60	366.55
60-70	248.74
70-80	112.13
80-90	15.67
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

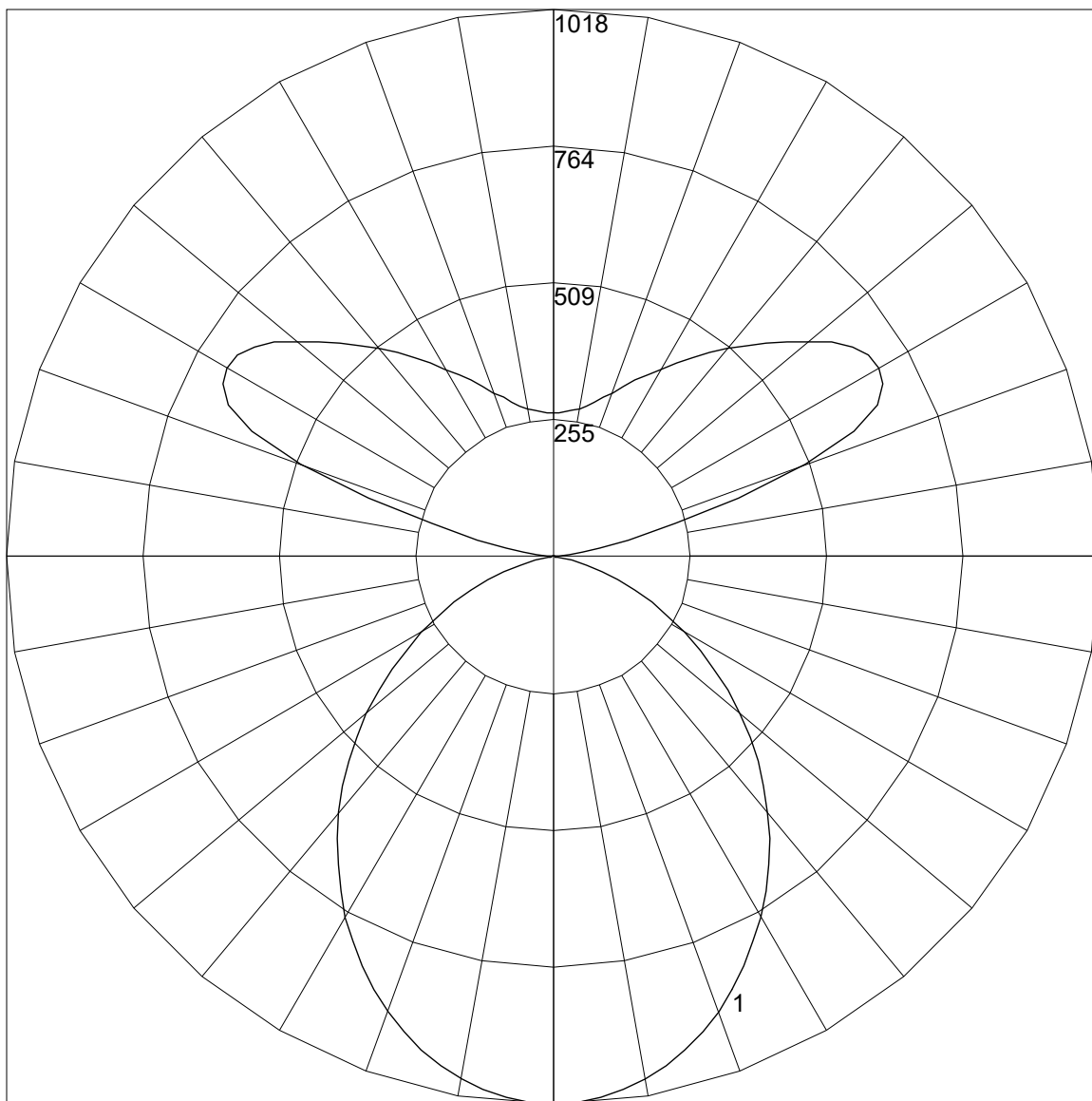
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	87	84	78	76	74	67	66	64	57	56	55	50
2	92	84	78	73	85	79	74	69	69	65	61	60	57	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	50	54	49	45	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	44	36	31	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	24	21	18	16

POLAR GRAPH



Maximum Candela = 1018.134 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)