

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-ID-4FT-S-H-835-F-DL-ABL-8H-ITL90630 ITL85134.214.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.214 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]06/24/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-S-H-835-OPEN-DL-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 42.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 45.0 WATTS

[_ABSOLUTE]LUMENS]4188

[OTHER]see www.finelite.com for source files ITL90630 and ITL85134. 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	4188
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	42.8
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 w/Sides
Luminous Length (0-180)	3.99 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9892	8594	8287
55	9181	7819	7569
65	8307	6968	6828
75	6945	6010	6050
85	4855	5139	5386

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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	753.907	753.907	753.907	753.907	753.907
2.5	753.907	753.129	753.907	754.685	754.685
5.0	750.016	750.795	752.351	754.685	755.463
7.5	744.570	746.126	750.795	754.685	755.463
10.0	737.568	739.124	747.683	753.129	753.907
12.5	728.232	730.566	742.236	748.461	750.795
15.0	716.562	719.674	734.456	743.014	744.570
17.5	701.779	707.225	724.342	734.456	736.790
20.0	686.218	693.221	712.671	723.564	725.120
22.5	669.102	676.882	699.445	711.115	713.449
25.0	648.095	659.766	684.662	696.333	700.223
27.5	628.645	641.093	668.324	681.550	684.662
30.0	606.860	621.642	650.429	665.212	668.324
32.5	584.297	601.414	632.535	647.317	651.985
35.0	558.622	579.629	613.084	628.645	633.313
37.5	534.504	557.844	592.077	609.972	615.418
40.0	509.607	534.504	571.849	590.521	595.967
42.5	483.154	511.163	549.286	569.515	575.739
45.0	455.923	487.822	526.723	548.508	555.510
47.5	428.692	462.925	504.161	526.723	533.726
50.0	402.239	437.250	480.820	504.938	512.719
52.5	373.452	412.353	456.701	483.154	491.712
55.0	346.221	386.679	432.582	459.813	469.149
57.5	318.990	361.004	408.463	436.472	445.809
60.0	290.981	333.773	383.567	413.132	423.246
62.5	262.195	307.320	358.670	389.791	399.905
65.0	234.186	281.645	332.217	364.116	375.786
67.5	206.955	255.192	307.320	340.775	353.224
70.0	178.946	227.962	281.645	316.656	327.549
72.5	150.937	201.509	256.748	291.760	304.208
75.0	123.706	175.834	231.852	267.641	280.867
77.5	98.031	151.715	206.955	244.300	258.305
80.0	74.690	127.596	185.170	222.515	234.964
82.5	52.128	105.811	164.163	201.509	214.735
85.0	33.455	87.139	145.491	182.836	196.062
87.5	19.451	71.578	129.152	166.498	178.946
90.0	8.558	60.686	116.704	154.049	165.719
92.5	17.192	44.207	73.269	91.280	98.238
95.0	33.565	59.762	87.596	105.197	110.927
97.5	50.757	75.316	101.922	119.114	124.845
100.0	67.539	90.461	116.658	133.031	138.762
102.5	85.549	107.243	132.622	147.767	153.497
105.0	103.969	124.435	148.585	162.912	168.643
107.5	122.798	142.446	165.368	178.876	184.606
110.0	142.446	160.865	182.969	195.249	200.161
112.5	161.684	180.104	200.979	212.440	216.943
115.0	182.560	198.933	220.218	230.451	234.544
117.5	203.845	218.990	239.456	248.461	251.736
120.0	225.130	238.637	259.104	267.290	270.155
122.5	246.415	258.694	278.342	286.938	289.394
125.0	268.518	279.161	297.580	306.176	309.860
127.5	290.212	300.036	317.637	325.414	329.508
130.0	312.316	319.684	338.104	345.062	348.746
132.5	334.829	340.560	358.161	364.710	367.166

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-H-835-F-DL-ABL-8H-ITL90630 ITL85134.214.IES****CANDELA TABULATION - (Cont.)**

135.0	356.523	361.026	377.808	384.358	386.813
137.5	378.218	381.902	397.047	403.596	406.052
140.0	399.912	401.549	415.466	422.425	424.881
142.5	420.788	421.197	433.477	441.254	442.891
145.0	440.435	440.435	451.896	458.855	459.674
147.5	460.083	458.446	469.497	474.819	476.047
150.0	478.503	476.047	486.280	491.601	491.601
152.5	495.285	492.420	501.834	506.746	506.746
155.0	511.658	508.383	516.979	521.072	521.072
157.5	526.803	522.710	530.896	533.352	534.171
160.0	539.902	536.218	543.176	545.223	546.041
162.5	552.181	548.497	554.637	555.456	556.684
165.0	562.824	559.959	564.052	564.870	566.098
167.5	571.829	569.782	572.238	573.057	573.876
170.0	579.197	578.378	578.788	579.606	580.016
172.5	585.337	584.928	584.518	585.337	585.337
175.0	589.021	589.021	589.021	589.021	589.021
177.5	591.886	591.886	591.886	591.477	591.886
180.0	592.705	592.705	592.705	592.705	592.705

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Zone	Lumens	%Lamp	%Fixt
0-20	278.12	N.A.	6.60
0-30	591.00	N.A.	14.10
0-40	969.43	N.A.	23.10
0-60	1745.97	N.A.	41.70
0-80	2296.44	N.A.	54.80
0-90	2443.37	N.A.	58.30
10-90	2371.71	N.A.	56.60
20-40	691.32	N.A.	16.50
20-50	1090.55	N.A.	26.00
40-70	1094.57	N.A.	26.10
60-80	550.47	N.A.	13.10
70-80	232.44	N.A.	5.50
80-90	146.92	N.A.	3.50
90-110	247.45	N.A.	5.90
90-120	460.22	N.A.	11.00
90-130	722.50	N.A.	17.30
90-150	1292.57	N.A.	30.90
90-180	1744.81	N.A.	41.70
110-180	1497.35	N.A.	35.80
0-180	4188.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.65
10-20	206.46
20-30	312.89
30-40	378.43
40-50	399.23
50-60	377.31
60-70	318.03
70-80	232.44
80-90	146.92
90-100	95.86
100-110	151.59
110-120	212.76
120-130	262.29
130-140	288.44
140-150	281.63
150-160	237.47
160-170	158.85
170-180	55.92

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

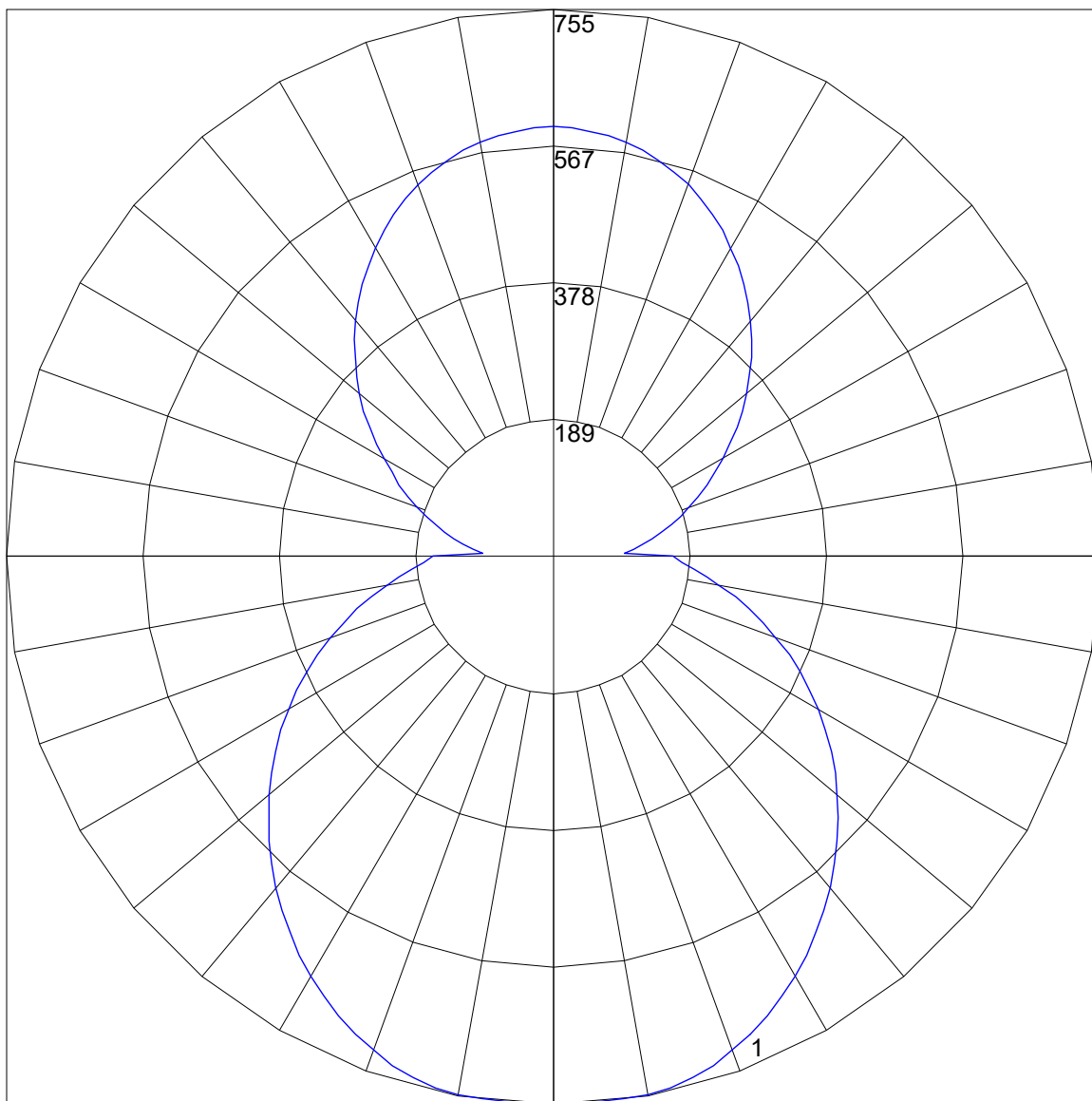
Effective Floor Cavity Reflectance 0.20

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	75	75	75	64	64	64	58
1	98	93	89	85	91	87	83	79	75	72	69	64	62	60	54	53	51	46
2	89	81	74	68	82	75	69	64	65	60	56	56	52	49	47	44	42	38
3	81	70	62	56	75	66	59	53	57	51	47	49	44	41	41	38	35	31
4	74	62	54	47	68	58	50	45	50	44	40	43	38	35	36	33	30	26
5	68	55	47	40	63	52	44	38	45	39	34	39	34	30	33	29	26	23
6	62	49	41	35	58	46	39	33	40	34	29	35	30	26	30	26	23	20
7	57	45	36	30	53	42	34	29	37	30	26	32	27	23	27	23	20	17
8	53	40	32	27	49	38	31	25	33	27	23	29	24	20	25	21	18	15
9	50	37	29	24	46	35	28	23	30	25	20	27	22	18	23	19	16	14
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	21	17	15	13

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POLAR GRAPH



Maximum Candela = 755.463 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)