

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-B-835-F-DL-ABL-8H-ITL90630 ITL85134.213.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.213 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-B-835-OPEN-DL-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 35.5 WATTS

[_ABSOLUTE]LUMENS]3357

[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	3357
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	32.8
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	6548	5688	5485
55	6077	5175	5010
65	5499	4612	4519
75	4597	3978	4004
85	3213	3402	3565

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	499.004	499.004	499.004	499.004	499.004
2.5	499.004	498.489	499.004	499.519	499.519
5.0	496.429	496.944	497.974	499.519	500.034
7.5	492.825	493.854	496.944	499.519	500.034
10.0	488.190	489.220	494.884	498.489	499.004
12.5	482.010	483.555	491.280	495.399	496.944
15.0	474.286	476.346	486.130	491.795	492.825
17.5	464.501	468.106	479.435	486.130	487.675
20.0	454.202	458.837	471.711	478.920	479.950
22.5	442.873	448.022	462.956	470.681	472.226
25.0	428.969	436.693	453.172	460.897	463.471
27.5	416.094	424.334	442.358	451.112	453.172
30.0	401.675	411.460	430.513	440.298	442.358
32.5	386.741	398.070	418.669	428.454	431.543
35.0	369.747	383.651	405.795	416.094	419.184
37.5	353.783	369.232	391.891	403.735	407.340
40.0	337.304	353.783	378.502	390.861	394.466
42.5	319.795	338.334	363.567	376.957	381.076
45.0	301.771	322.885	348.634	363.053	367.687
47.5	283.748	306.406	333.699	348.634	353.268
50.0	266.238	289.412	318.250	334.214	339.364
52.5	247.185	272.933	302.286	319.795	325.460
55.0	229.161	255.939	286.322	304.346	310.526
57.5	211.137	238.945	270.358	288.897	295.077
60.0	192.598	220.921	253.879	273.448	280.143
62.5	173.544	203.412	237.400	257.999	264.694
65.0	155.005	186.418	219.891	241.005	248.730
67.5	136.982	168.910	203.412	225.556	233.796
70.0	118.443	150.886	186.418	209.592	216.802
72.5	99.904	133.377	169.940	193.113	201.353
75.0	81.880	116.383	153.460	177.149	185.904
77.5	64.886	100.419	136.982	161.700	170.969
80.0	49.437	84.455	122.562	147.281	155.520
82.5	34.503	70.036	108.658	133.377	142.131
85.0	22.144	57.676	96.299	121.017	129.772
87.5	12.874	47.377	85.485	110.203	118.443
90.0	5.665	40.167	77.245	101.964	109.688
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

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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	184.08	N.A.	5.50
0-30	391.18	N.A.	11.70
0-40	641.66	N.A.	19.10
0-60	1155.64	N.A.	34.40
0-80	1519.99	N.A.	45.30
0-90	1617.24	N.A.	48.20
10-90	1569.81	N.A.	46.80
20-40	457.58	N.A.	13.60
20-50	721.82	N.A.	21.50
40-70	724.49	N.A.	21.60
60-80	364.35	N.A.	10.90
70-80	153.85	N.A.	4.60
80-90	97.25	N.A.	2.90
90-110	242.60	N.A.	7.20
90-120	455.37	N.A.	13.60
90-130	717.66	N.A.	21.40
90-150	1287.72	N.A.	38.40
90-180	1739.96	N.A.	51.80
110-180	1497.35	N.A.	44.60
0-180	3357.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.43
10-20	136.66
20-30	207.10
30-40	250.48
40-50	264.25
50-60	249.74
60-70	210.50
70-80	153.85
80-90	97.25
90-100	91.01
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

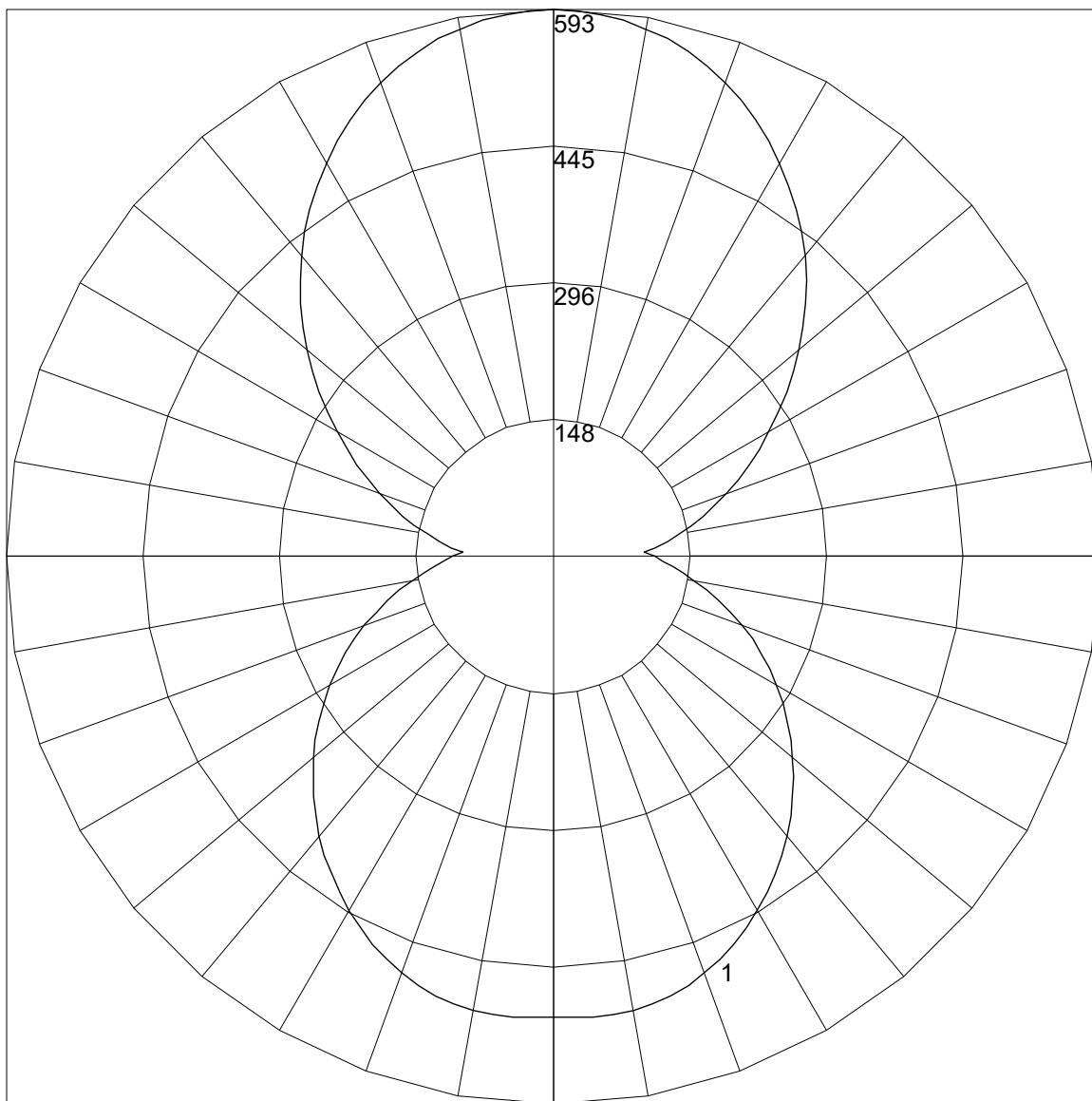
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	96	91	87	83	88	84	80	77	70	68	65	58	56	54	46	45	44	38
2	87	79	73	67	80	73	67	62	61	57	53	50	47	44	40	38	36	31
3	79	69	61	55	72	64	57	51	53	48	44	44	40	37	35	32	30	26
4	72	61	53	46	66	56	49	43	47	42	37	39	35	31	31	28	26	22
5	66	54	46	40	61	50	43	37	42	36	32	35	30	27	28	25	22	19
6	61	48	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19	16
7	56	44	35	30	51	40	33	28	34	28	24	28	24	21	23	20	17	14
8	52	40	32	26	48	37	30	25	31	25	21	26	22	18	21	18	15	13
9	49	36	28	23	44	33	27	22	28	23	19	24	19	16	19	16	14	11
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12	10

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POLAR GRAPH



Maximum Candela = 592.705 Located At Horizontal Angle = 0, Vertical Angle = 180

1 - Vertical Plane Through Horizontal Angles (90 - 270)