

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-H-B-835-F-DL-ABL-8H-ITL90630 ITL85134.208.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.208 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-H-B-835-OPEN-DL-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.7 WATTS

[_ABSOLUTE]LUMENS]4915

[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	4915
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	46.7
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 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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CANDELA TABULATION

	<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	32.672	84.014	139.246	173.474	186.698
95.0	63.788	113.575	166.472	199.923	210.813
97.5	96.461	143.135	193.699	226.371	237.262
100.0	128.355	171.918	221.704	252.820	263.711
102.5	162.583	203.812	252.042	280.825	291.716
105.0	197.589	236.484	282.381	309.608	320.498
107.5	233.373	270.712	314.275	339.946	350.837
110.0	270.712	305.718	347.725	371.062	380.397
112.5	307.274	342.280	381.953	403.735	412.292
115.0	346.947	378.064	418.515	437.963	445.742
117.5	387.399	416.181	455.077	472.190	478.414
120.0	427.850	453.521	492.416	507.974	513.420
122.5	468.301	491.638	528.978	545.314	549.981
125.0	510.308	530.534	565.540	581.876	588.877
127.5	551.537	570.207	603.657	618.437	626.216
130.0	593.544	607.547	642.553	655.777	662.778
132.5	636.329	647.220	680.670	693.117	697.784

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-F-DL-ABL-8H-ITL90630 ITL85134.208.IES****CANDELA TABULATION - (Cont.)**

135.0	677.558	686.115	718.010	730.456	735.124
137.5	718.788	725.789	754.571	767.018	771.685
140.0	760.017	763.128	789.577	802.802	807.469
142.5	799.690	800.468	823.805	838.586	841.697
145.0	837.030	837.030	858.811	872.036	873.591
147.5	874.369	871.258	892.261	902.374	904.708
150.0	909.375	904.708	924.155	934.268	934.268
152.5	941.269	935.824	953.716	963.051	963.051
155.0	972.386	966.163	982.499	990.278	990.278
157.5	1001.168	993.389	1008.947	1013.615	1015.171
160.0	1026.062	1019.060	1032.285	1036.174	1037.730
162.5	1049.399	1042.398	1054.066	1055.622	1057.956
165.0	1069.624	1064.179	1071.958	1073.514	1075.848
167.5	1086.738	1082.849	1087.516	1089.072	1090.628
170.0	1100.741	1099.185	1099.963	1101.519	1102.296
172.5	1112.409	1111.631	1110.853	1112.409	1112.409
175.0	1119.410	1119.410	1119.410	1119.410	1119.410
177.5	1124.856	1124.856	1124.856	1124.078	1124.856
180.0	1126.412	1126.412	1126.412	1126.412	1126.412

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-F-DL-ABL-8H-ITL90630 ITL85134.208.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	184.08	N.A.	3.70
0-30	391.18	N.A.	8.00
0-40	641.66	N.A.	13.10
0-60	1155.64	N.A.	23.50
0-80	1519.99	N.A.	30.90
0-90	1617.24	N.A.	32.90
10-90	1569.81	N.A.	31.90
20-40	457.58	N.A.	9.30
20-50	721.82	N.A.	14.70
40-70	724.49	N.A.	14.70
60-80	364.35	N.A.	7.40
70-80	153.85	N.A.	3.10
80-90	97.25	N.A.	2.00
90-110	452.51	N.A.	9.20
90-120	856.86	N.A.	17.40
90-130	1355.33	N.A.	27.60
90-150	2438.72	N.A.	49.60
90-180	3298.17	N.A.	67.10
110-180	2845.66	N.A.	57.90
0-180	4915.41	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	164.42
100-110	288.10
110-120	404.35
120-130	498.47
130-140	548.17
140-150	535.22
150-160	451.30
160-170	301.88
170-180	106.27

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

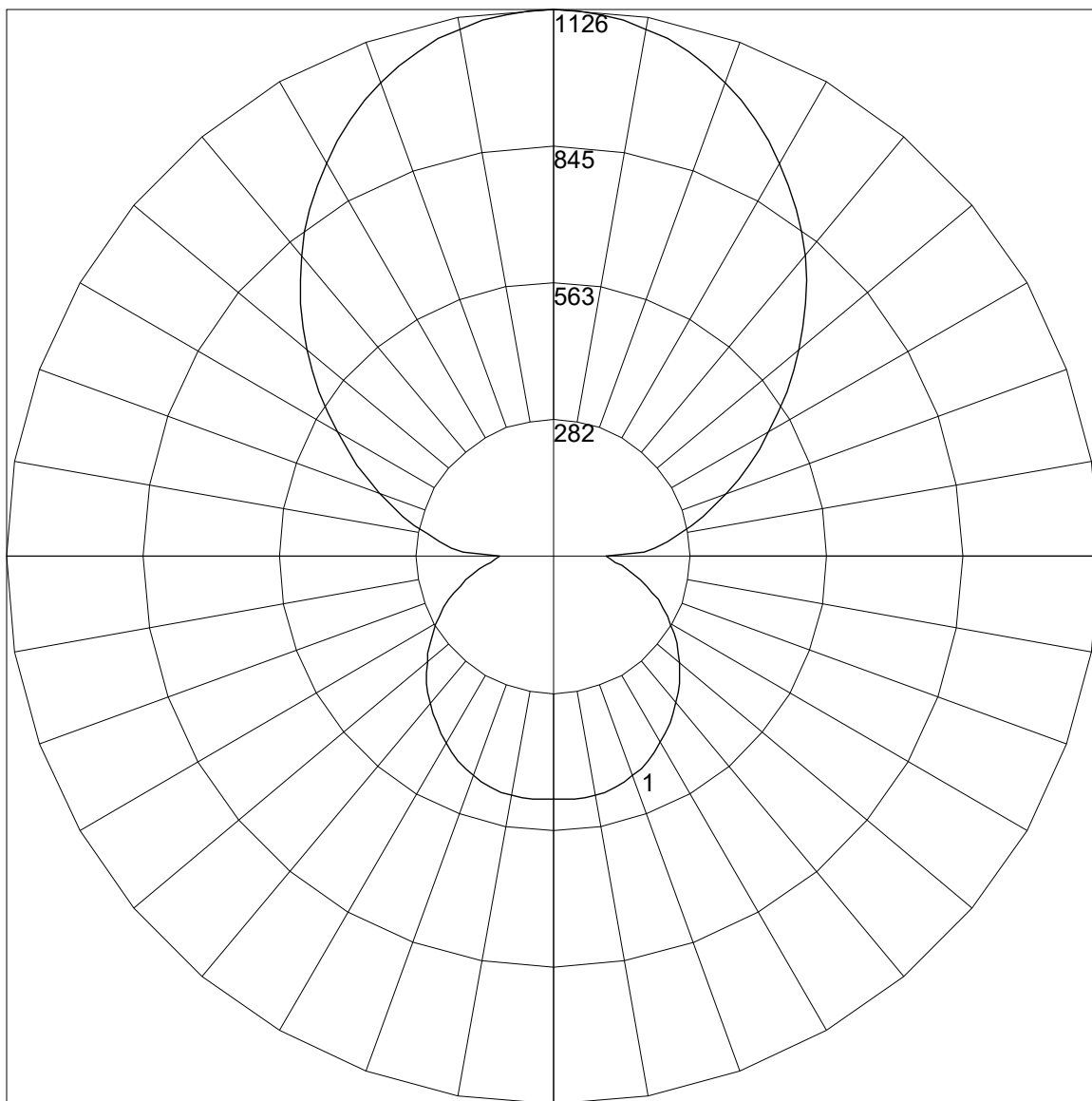
Effective Floor Cavity Reflectance 0.20

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	93	89	85	81	84	80	76	73	63	61	59	48	47	45	34	33	33	26
2	84	77	71	65	76	69	64	59	55	51	48	42	39	37	30	28	27	21
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	26	24	22	18
4	70	59	51	45	63	54	47	41	43	38	34	33	29	26	23	21	19	15
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16	13
6	59	47	39	33	53	43	36	30	34	29	25	26	22	20	19	16	14	11
7	54	42	34	29	49	38	31	26	31	26	22	24	20	17	17	15	13	10
8	50	38	31	25	45	35	28	23	28	23	19	22	18	15	16	13	11	9
9	47	35	27	22	42	32	25	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	20	39	29	23	18	23	19	15	18	15	12	13	11	9	7

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POLAR GRAPH



Maximum Candela = 1126.412 Located At Horizontal Angle = 0, Vertical Angle = 180

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