

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-S-835-F-DL-ABL-8H-ITL90630 ITL85134.207.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.207 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-S-835-OPEN-DL-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 42.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 45.0 WATTS

[_ABSOLUTE]LUMENS]4582

[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	4582
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	42.8
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 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	5207	4524	4362
55	4833	4116	3985
65	4373	3668	3594
75	3656	3164	3185
85	2555	2705	2835

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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	396.858	396.858	396.858	396.858	396.858
2.5	396.858	396.448	396.858	397.267	397.267
5.0	394.810	395.220	396.039	397.267	397.677
7.5	391.943	392.762	395.220	397.267	397.677
10.0	388.257	389.076	393.582	396.448	396.858
12.5	383.343	384.571	390.715	393.991	395.220
15.0	377.199	378.838	386.619	391.124	391.943
17.5	369.418	372.285	381.295	386.619	387.848
20.0	361.227	364.913	375.152	380.885	381.704
22.5	352.217	356.312	368.189	374.332	375.561
25.0	341.159	347.302	360.408	366.551	368.599
27.5	330.920	337.473	351.807	358.769	360.408
30.0	319.452	327.234	342.387	350.169	351.807
32.5	307.575	316.585	332.967	340.749	343.206
35.0	294.060	305.118	322.729	330.920	333.377
37.5	281.364	293.650	311.671	321.091	323.957
40.0	268.258	281.364	301.022	310.852	313.719
42.5	254.333	269.077	289.145	299.794	303.070
45.0	239.999	256.790	277.268	288.736	292.422
47.5	225.664	243.685	265.391	277.268	280.954
50.0	211.739	230.169	253.105	265.801	269.896
52.5	196.586	217.064	240.408	254.333	258.838
55.0	182.252	203.548	227.712	242.047	246.961
57.5	167.917	190.033	215.016	229.760	234.674
60.0	153.173	175.699	201.910	217.473	222.798
62.5	138.020	161.774	188.804	205.187	210.511
65.0	123.276	148.259	174.880	191.671	197.815
67.5	108.941	134.334	161.774	179.385	185.938
70.0	94.197	119.999	148.259	166.689	172.422
72.5	79.454	106.075	135.153	153.583	160.136
75.0	65.119	92.559	122.047	140.887	147.849
77.5	51.604	79.863	108.941	128.600	135.972
80.0	39.317	67.167	97.474	117.132	123.685
82.5	27.440	55.699	86.416	106.075	113.037
85.0	17.611	45.870	76.587	96.245	103.208
87.5	10.239	37.679	67.986	87.645	94.197
90.0	4.505	31.945	61.433	81.092	87.235
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-S-835-F-DL-ABL-8H-ITL90630 ITL85134.207.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

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Zone	Lumens	%Lamp	%Fixt
0-20	146.40	N.A.	3.20
0-30	311.11	N.A.	6.80
0-40	510.31	N.A.	11.10
0-60	919.08	N.A.	20.10
0-80	1208.85	N.A.	26.40
0-90	1286.19	N.A.	28.10
10-90	1248.47	N.A.	27.20
20-40	363.91	N.A.	7.90
20-50	574.07	N.A.	12.50
40-70	576.18	N.A.	12.60
60-80	289.77	N.A.	6.30
70-80	122.36	N.A.	2.70
80-90	77.34	N.A.	1.70
90-110	450.57	N.A.	9.80
90-120	854.92	N.A.	18.70
90-130	1353.39	N.A.	29.50
90-150	2436.77	N.A.	53.20
90-180	3296.23	N.A.	71.90
110-180	2845.66	N.A.	62.10
0-180	4582.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.72
10-20	108.68
20-30	164.71
30-40	199.20
40-50	210.16
50-60	198.62
60-70	167.41
70-80	122.36
80-90	77.34
90-100	162.47
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

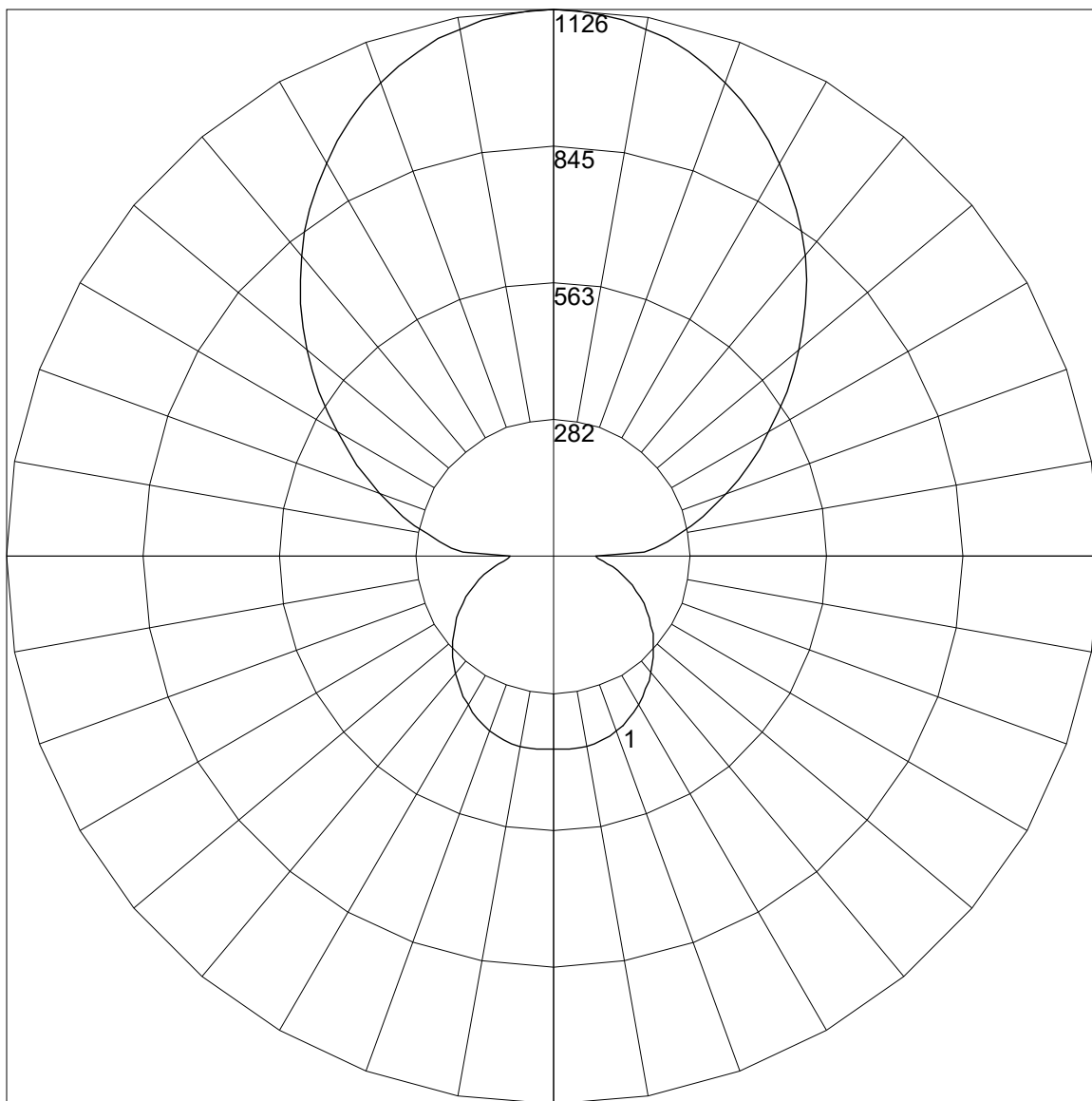
Effective Floor Cavity Reflectance 0.20

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	92	88	84	80	82	79	75	72	61	59	57	45	44	42	31	30	29	22
2	84	76	70	65	74	68	63	59	53	50	46	39	37	35	27	25	24	18
3	76	67	59	54	68	60	54	49	47	42	39	35	32	29	23	22	20	15
4	69	59	51	45	62	53	46	41	41	36	33	31	27	25	21	19	17	13
5	64	52	44	38	56	47	40	35	37	32	28	27	24	21	19	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	25	21	18	17	15	13	10
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	19	20	17	14	14	12	10	7
9	46	34	27	22	41	31	25	20	25	20	16	19	15	13	13	11	9	7
10	43	31	24	20	38	28	22	18	23	18	15	17	14	11	12	10	8	6

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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)