

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-S-835-F-DL-ABL-8H-ITL90630 ITL85134.201.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.201 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-S-835-OPEN-DL-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 28.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 31.8 WATTS

[_ABSOLUTE]LUMENS]3024

[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	3024
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	28.9
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	5207	4524	4362
55	4833	4116	3985
65	4373	3668	3594
75	3656	3164	3185
85	2555	2705	2835

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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	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	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	146.40	N.A.	4.80
0-30	311.11	N.A.	10.30
0-40	510.31	N.A.	16.90
0-60	919.08	N.A.	30.40
0-80	1208.85	N.A.	40.00
0-90	1286.19	N.A.	42.50
10-90	1248.47	N.A.	41.30
20-40	363.91	N.A.	12.00
20-50	574.07	N.A.	19.00
40-70	576.18	N.A.	19.10
60-80	289.77	N.A.	9.60
70-80	122.36	N.A.	4.00
80-90	77.34	N.A.	2.60
90-110	240.66	N.A.	8.00
90-120	453.42	N.A.	15.00
90-130	715.71	N.A.	23.70
90-150	1285.78	N.A.	42.50
90-180	1738.01	N.A.	57.50
110-180	1497.35	N.A.	49.50
0-180	3024.21	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	89.07
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

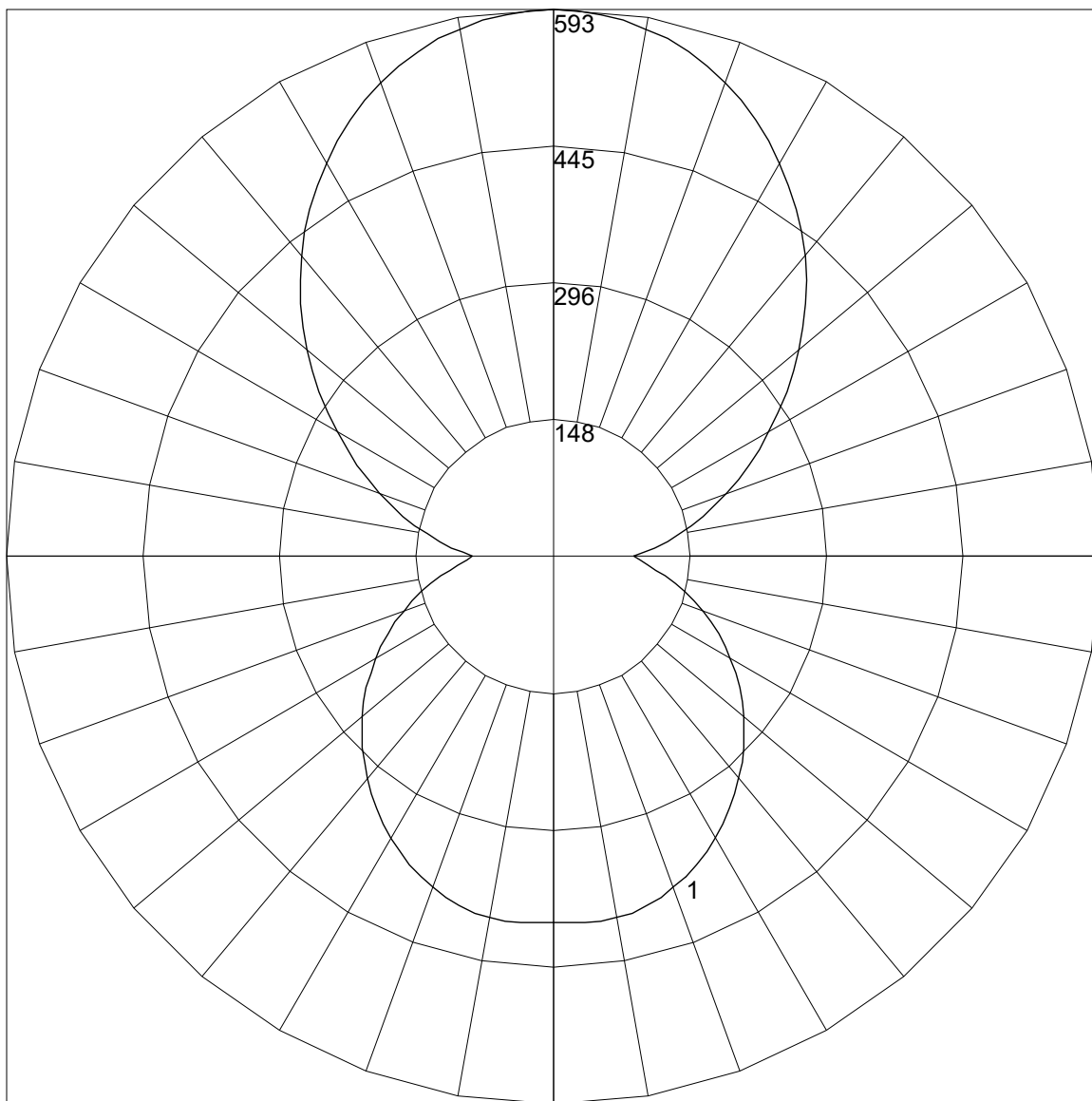
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	95	90	86	82	87	83	79	76	68	65	63	54	53	51	42	41	40	34
2	86	78	72	66	78	72	66	61	59	55	51	47	44	42	36	34	33	27
3	78	68	61	55	71	63	56	51	52	47	43	41	38	35	32	29	27	23
4	71	60	52	46	65	55	48	43	46	40	36	37	33	29	28	25	23	19
5	65	54	45	39	59	49	42	36	41	35	31	33	29	25	25	22	20	17
6	60	48	40	34	55	44	37	31	36	31	27	29	25	22	23	20	17	14
7	56	43	35	29	50	40	32	27	33	27	23	27	22	19	21	18	15	13
8	51	39	31	26	47	36	29	24	30	24	21	24	20	17	19	16	14	11
9	48	36	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12	10
10	45	33	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11	9

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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)