

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-V-S-835-OPEN-DL-ITL90630 ITL85134.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]08/21/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-V-S-835-OPEN-DL

[_INPUT_ELECTRICAL]120.0 VOLTS, 51.3 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 53.5 WATTS

[_ABSOLUTE]LUMENS]5521

[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	5521
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	51.3
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	42.000	108.000	179.000	223.000	240.000
95.0	82.000	146.000	214.000	257.000	271.000
97.5	124.000	184.000	249.000	291.000	305.000
100.0	165.000	221.000	285.000	325.000	339.000
102.5	209.000	262.000	324.000	361.000	375.000
105.0	254.000	304.000	363.000	398.000	412.000
107.5	300.000	348.000	404.000	437.000	451.000
110.0	348.000	393.000	447.000	477.000	489.000
112.5	395.000	440.000	491.000	519.000	530.000
115.0	446.000	486.000	538.000	563.000	573.000
117.5	498.000	535.000	585.000	607.000	615.000
120.0	550.000	583.000	633.000	653.000	660.000
122.5	602.000	632.000	680.000	701.000	707.000
125.0	656.000	682.000	727.000	748.000	757.000
127.5	709.000	733.000	776.000	795.000	805.000
130.0	763.000	781.000	826.000	843.000	852.000
132.5	818.000	832.000	875.000	891.000	897.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-S-835-OPEN-DL-ITL90630 ITL85134.004.IES****CANDELA TABULATION - (Cont.)**

135.0	871.000	882.000	923.000	939.000	945.000
137.5	924.000	933.000	970.000	986.000	992.000
140.0	977.000	981.000	1015.000	1032.000	1038.000
142.5	1028.000	1029.000	1059.000	1078.000	1082.000
145.0	1076.000	1076.000	1104.000	1121.000	1123.000
147.5	1124.000	1120.000	1147.000	1160.000	1163.000
150.0	1169.000	1163.000	1188.000	1201.000	1201.000
152.5	1210.000	1203.000	1226.000	1238.000	1238.000
155.0	1250.000	1242.000	1263.000	1273.000	1273.000
157.5	1287.000	1277.000	1297.000	1303.000	1305.000
160.0	1319.000	1310.000	1327.000	1332.000	1334.000
162.5	1349.000	1340.000	1355.000	1357.000	1360.000
165.0	1375.000	1368.000	1378.000	1380.000	1383.000
167.5	1397.000	1392.000	1398.000	1400.000	1402.000
170.0	1415.000	1413.000	1414.000	1416.000	1417.000
172.5	1430.000	1429.000	1428.000	1430.000	1430.000
175.0	1439.000	1439.000	1439.000	1439.000	1439.000
177.5	1446.000	1446.000	1446.000	1445.000	1446.000
180.0	1448.000	1448.000	1448.000	1448.000	1448.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-S-835-OPEN-DL-ITL90630 ITL85134.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	146.40	N.A.	2.70
0-30	311.11	N.A.	5.60
0-40	510.31	N.A.	9.20
0-60	919.08	N.A.	16.60
0-80	1208.85	N.A.	21.90
0-90	1286.19	N.A.	23.30
10-90	1248.47	N.A.	22.60
20-40	363.91	N.A.	6.60
20-50	574.07	N.A.	10.40
40-70	576.18	N.A.	10.40
60-80	289.77	N.A.	5.20
70-80	122.36	N.A.	2.20
80-90	77.34	N.A.	1.40
90-110	577.05	N.A.	10.50
90-120	1096.84	N.A.	19.90
90-130	1737.62	N.A.	31.50
90-150	3130.31	N.A.	56.70
90-180	4235.14	N.A.	76.70
110-180	3658.09	N.A.	66.30
0-180	5521.33	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	206.70
100-110	370.35
110-120	519.78
120-130	640.78
130-140	704.67
140-150	688.02
150-160	580.15
160-170	388.07
170-180	136.61

IES INDOOR REPORT

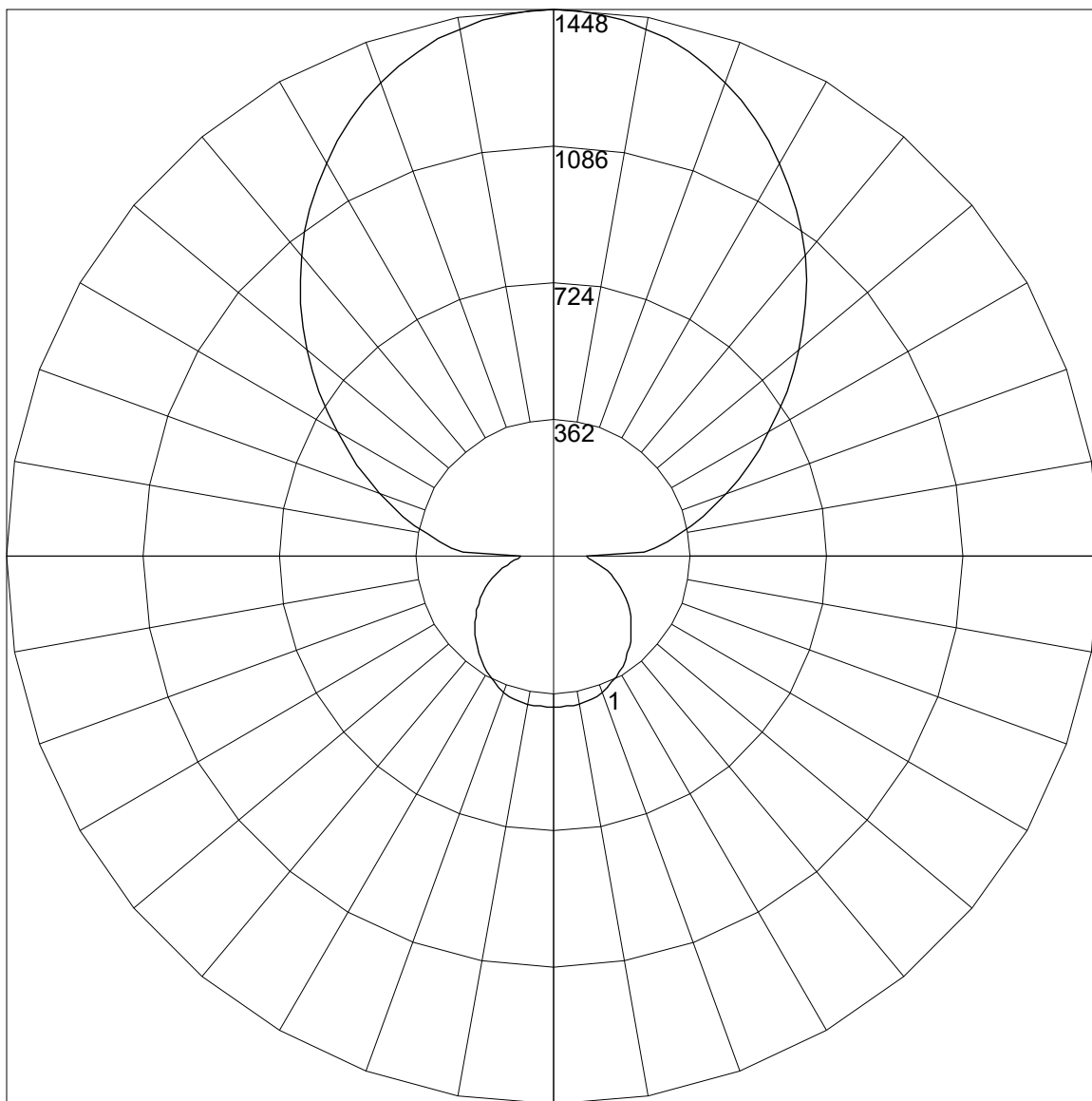
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	91	87	83	79	81	77	74	71	59	57	55	42	41	40	27	26	26	18
2	83	75	69	64	73	67	62	58	51	48	45	37	35	33	23	22	21	15
3	75	66	59	53	67	59	53	48	45	41	37	32	30	27	21	19	18	12
4	69	58	51	45	61	52	45	40	40	35	32	29	26	23	18	16	15	11
5	63	52	44	38	56	46	39	34	35	31	27	26	22	20	16	14	13	9
6	58	46	38	33	51	41	34	29	32	27	23	23	20	17	15	13	11	8
7	53	41	34	28	47	37	30	26	29	24	20	21	17	15	13	11	10	7
8	49	37	30	25	44	33	27	22	26	21	18	19	16	13	12	10	9	6
9	46	34	27	22	40	30	24	20	24	19	16	17	14	12	11	9	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	10	8	7	5

POLAR GRAPH



Maximum Candela = 1448 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)