

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-B-8TW-F-DL-ABL-8H-ITL90630 ITL85134.905.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.905 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-V-B-TW-OPEN-DL-ABL-8H

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & C

[_INPUT_ELECTRICAL]120.0 VOLTS, 60.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 63.0 WATTS

[_ABSOLUTE]LUMENS]5854

[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	5854
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	60.8
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	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	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-B-8TW-F-DL-ABL-8H-ITL90630 ITL85134.905.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-B-8TW-F-DL-ABL-8H-ITL90630 ITL85134.905.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	184.08	N.A.	3.10
0-30	391.18	N.A.	6.70
0-40	641.66	N.A.	11.00
0-60	1155.64	N.A.	19.70
0-80	1519.99	N.A.	26.00
0-90	1617.24	N.A.	27.60
10-90	1569.81	N.A.	26.80
20-40	457.58	N.A.	7.80
20-50	721.82	N.A.	12.30
40-70	724.49	N.A.	12.40
60-80	364.35	N.A.	6.20
70-80	153.85	N.A.	2.60
80-90	97.25	N.A.	1.70
90-110	579.00	N.A.	9.90
90-120	1098.78	N.A.	18.80
90-130	1739.56	N.A.	29.70
90-150	3132.26	N.A.	53.50
90-180	4237.08	N.A.	72.40
110-180	3658.09	N.A.	62.50
0-180	5854.33	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	208.65
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

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

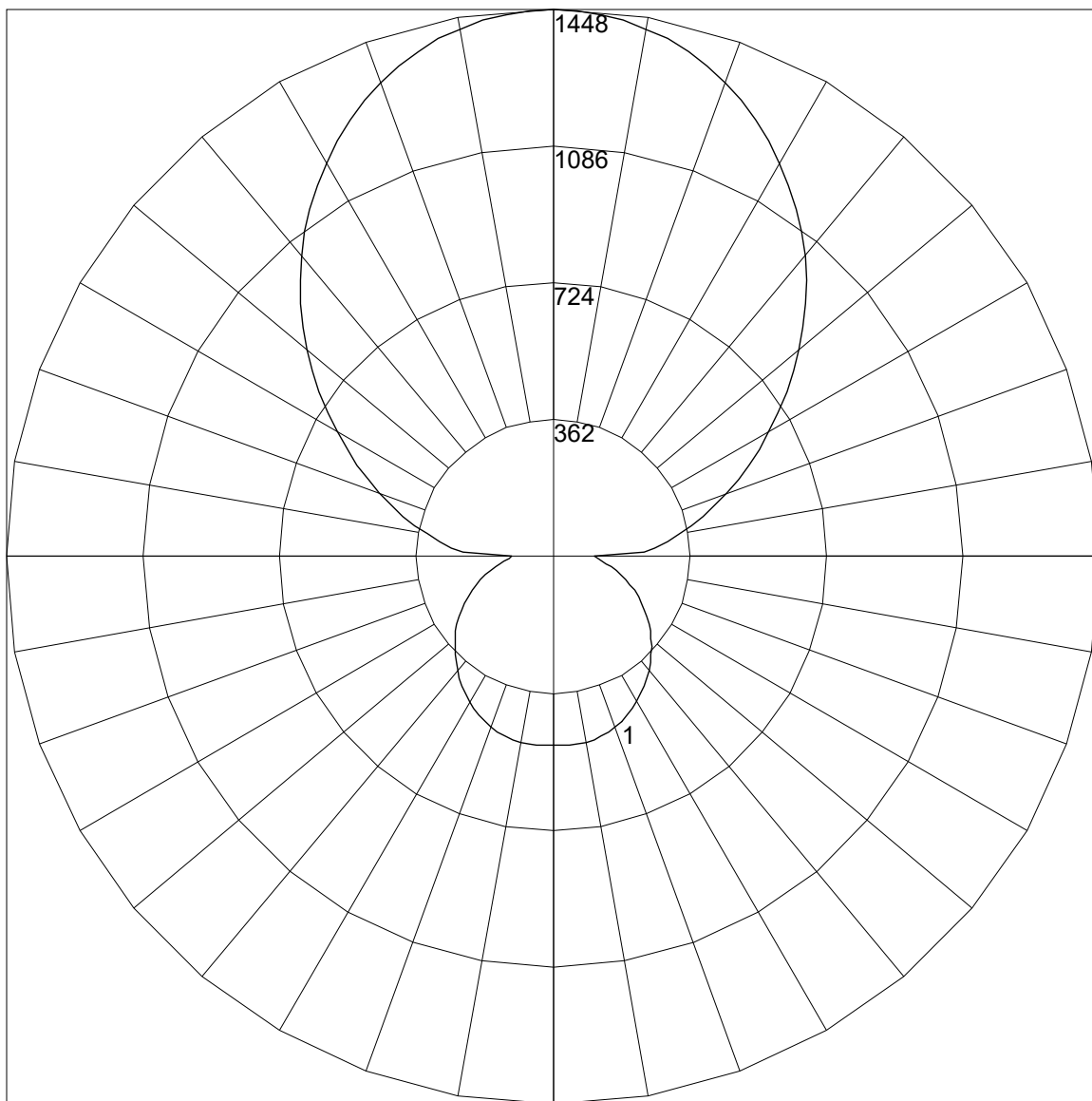
Effective Floor Cavity Reflectance 0.20

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	52	52	52	36	36	36	28
1	92	88	84	80	82	78	75	72	61	59	57	45	44	42	30	29	29	22
2	84	76	70	65	74	68	63	58	53	49	46	39	37	35	26	25	24	18
3	76	67	59	54	68	60	53	48	47	42	39	34	31	29	23	21	20	15
4	69	59	51	45	62	53	46	41	41	36	33	30	27	25	20	18	17	13
5	63	52	44	38	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	46	39	33	52	42	35	30	33	28	24	24	21	18	17	14	13	9
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	18	20	17	14	14	12	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	13	11	9	7
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	12	10	8	6

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POLAR GRAPH



Maximum Candela = 1448 Located At Horizontal Angle = 0, Vertical Angle = 180

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