

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-B-B-8TW-F-DL-ABL-8H-ITL90630 ITL85134.902.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.902 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-B-B-8TW-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, 40.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 43.1 WATTS

[_ABSOLUTE]LUMENS]3802

[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	3802
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	40.4
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	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	21.613	55.577	92.114	114.756	123.504
95.0	42.197	75.132	110.125	132.253	139.457
97.5	63.811	94.687	128.136	149.749	156.954
100.0	84.909	113.727	146.662	167.246	174.450
102.5	107.552	134.826	166.731	185.771	192.976
105.0	130.709	156.439	186.800	204.812	212.016
107.5	154.381	179.082	207.899	224.881	232.085
110.0	179.082	202.239	230.027	245.465	251.640
112.5	203.268	226.425	252.670	267.078	272.739
115.0	229.512	250.097	276.856	289.721	294.867
117.5	256.272	275.312	301.042	312.363	316.480
120.0	283.031	300.013	325.743	336.035	339.637
122.5	309.790	325.228	349.929	360.736	363.824
125.0	337.579	350.959	374.116	384.922	389.554
127.5	364.853	377.203	399.331	409.109	414.255
130.0	392.641	401.904	425.061	433.810	438.441
132.5	420.944	428.149	450.277	458.510	461.598

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-8TW-F-DL-ABL-8H-ITL90630 ITL85134.902.IES****CANDELA TABULATION - (Cont.)**

135.0	448.218	453.879	474.978	483.211	486.299
137.5	475.492	480.124	499.164	507.398	510.485
140.0	502.766	504.825	522.321	531.069	534.157
142.5	529.011	529.525	544.963	554.741	556.799
145.0	553.712	553.712	568.121	576.869	577.898
147.5	578.413	576.354	590.249	596.938	598.482
150.0	601.570	598.482	611.347	618.037	618.037
152.5	622.668	619.066	630.902	637.077	637.077
155.0	643.253	639.136	649.942	655.088	655.088
157.5	662.293	657.147	667.439	670.526	671.556
160.0	678.760	674.129	682.877	685.450	686.479
162.5	694.198	689.567	697.286	698.315	699.859
165.0	707.578	703.976	709.121	710.151	711.694
167.5	718.899	716.326	719.414	720.443	721.472
170.0	728.162	727.133	727.647	728.676	729.191
172.5	735.881	735.366	734.852	735.881	735.881
175.0	740.512	740.512	740.512	740.512	740.512
177.5	744.114	744.114	744.114	743.600	744.114
180.0	745.144	745.144	745.144	745.144	745.144

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Zone	Lumens	%Lamp	%Fixt
0-20	184.08	N.A.	4.80
0-30	391.18	N.A.	10.30
0-40	641.66	N.A.	16.90
0-60	1155.64	N.A.	30.40
0-80	1519.99	N.A.	40.00
0-90	1617.24	N.A.	42.50
10-90	1569.81	N.A.	41.30
20-40	457.58	N.A.	12.00
20-50	721.82	N.A.	19.00
40-70	724.49	N.A.	19.10
60-80	364.35	N.A.	9.60
70-80	153.85	N.A.	4.00
80-90	97.25	N.A.	2.60
90-110	302.56	N.A.	8.00
90-120	570.04	N.A.	15.00
90-130	899.79	N.A.	23.70
90-150	1616.47	N.A.	42.50
90-180	2185.02	N.A.	57.50
110-180	1882.46	N.A.	49.50
0-180	3802.26	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	111.98
100-110	190.58
110-120	267.48
120-130	329.75
130-140	362.62
140-150	354.06
150-160	298.55
160-170	199.70
170-180	70.30

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

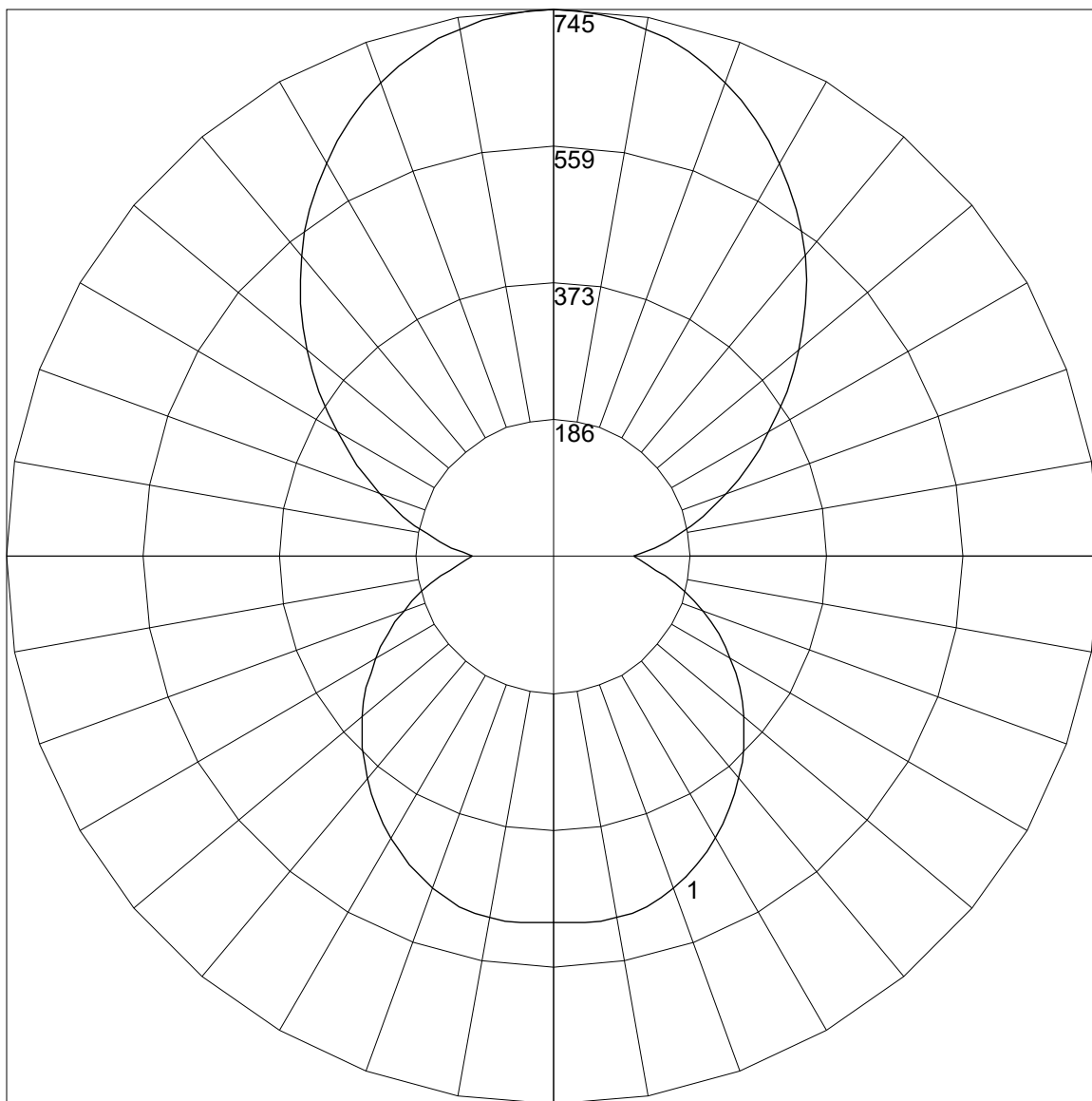
Effective Floor Cavity Reflectance 0.20

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 = 745.144 Located At Horizontal Angle = 0, Vertical Angle = 180

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