

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-S-835-F-DL-ABL-8H-ITL90630 ITL85134.210.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.210 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-S-835-OPEN-DL-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 35.5 WATTS

[_ABSOLUTE]LUMENS]3469

[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	3469
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	32.8
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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	<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	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-S-835-F-DL-ABL-8H-ITL90630 ITL85134.210.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	146.40	N.A.	4.20
0-30	311.11	N.A.	9.00
0-40	510.31	N.A.	14.70
0-60	919.08	N.A.	26.50
0-80	1208.85	N.A.	34.80
0-90	1286.19	N.A.	37.10
10-90	1248.47	N.A.	36.00
20-40	363.91	N.A.	10.50
20-50	574.07	N.A.	16.50
40-70	576.18	N.A.	16.60
60-80	289.77	N.A.	8.40
70-80	122.36	N.A.	3.50
80-90	77.34	N.A.	2.20
90-110	300.62	N.A.	8.70
90-120	568.10	N.A.	16.40
90-130	897.85	N.A.	25.90
90-150	1614.53	N.A.	46.50
90-180	2183.08	N.A.	62.90
110-180	1882.46	N.A.	54.30
0-180	3469.27	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	110.03
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

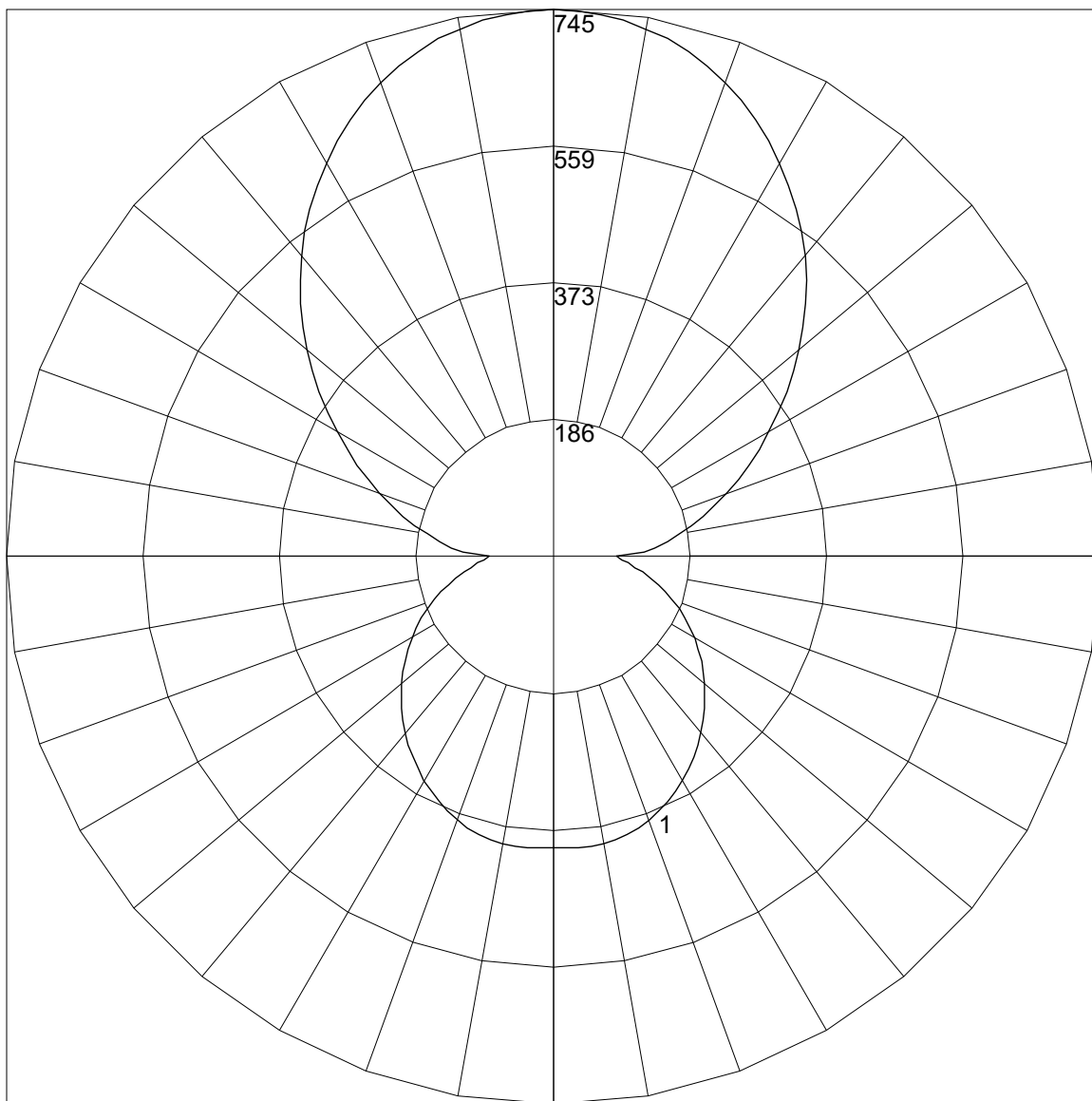
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	94	89	85	82	85	81	77	74	65	63	61	51	49	48	38	37	36	29
2	85	78	71	66	77	70	65	60	57	53	49	44	42	39	33	31	29	24
3	77	68	60	54	70	62	55	50	50	45	41	39	35	33	29	26	25	20
4	71	60	52	46	64	54	47	42	44	39	35	34	31	28	25	23	21	17
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18	14
6	60	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16	13
7	55	43	35	29	49	39	32	27	32	26	22	25	21	18	19	16	14	11
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12	10
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	16	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	16	13	15	12	10	8

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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)