

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-H-835-F-DL-ABL-8H-ITL90630 ITL85134.211.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.211 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-H-835-OPEN-DL-ABL-8H

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.7 WATTS

[_ABSOLUTE]LUMENS]4633

[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	4633
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	46.7
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	9892	8594	8287
55	9181	7819	7569
65	8307	6968	6828
75	6945	6010	6050
85	4855	5139	5386

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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	753.907	753.907	753.907	753.907	753.907
2.5	753.907	753.129	753.907	754.685	754.685
5.0	750.016	750.795	752.351	754.685	755.463
7.5	744.570	746.126	750.795	754.685	755.463
10.0	737.568	739.124	747.683	753.129	753.907
12.5	728.232	730.566	742.236	748.461	750.795
15.0	716.562	719.674	734.456	743.014	744.570
17.5	701.779	707.225	724.342	734.456	736.790
20.0	686.218	693.221	712.671	723.564	725.120
22.5	669.102	676.882	699.445	711.115	713.449
25.0	648.095	659.766	684.662	696.333	700.223
27.5	628.645	641.093	668.324	681.550	684.662
30.0	606.860	621.642	650.429	665.212	668.324
32.5	584.297	601.414	632.535	647.317	651.985
35.0	558.622	579.629	613.084	628.645	633.313
37.5	534.504	557.844	592.077	609.972	615.418
40.0	509.607	534.504	571.849	590.521	595.967
42.5	483.154	511.163	549.286	569.515	575.739
45.0	455.923	487.822	526.723	548.508	555.510
47.5	428.692	462.925	504.161	526.723	533.726
50.0	402.239	437.250	480.820	504.938	512.719
52.5	373.452	412.353	456.701	483.154	491.712
55.0	346.221	386.679	432.582	459.813	469.149
57.5	318.990	361.004	408.463	436.472	445.809
60.0	290.981	333.773	383.567	413.132	423.246
62.5	262.195	307.320	358.670	389.791	399.905
65.0	234.186	281.645	332.217	364.116	375.786
67.5	206.955	255.192	307.320	340.775	353.224
70.0	178.946	227.962	281.645	316.656	327.549
72.5	150.937	201.509	256.748	291.760	304.208
75.0	123.706	175.834	231.852	267.641	280.867
77.5	98.031	151.715	206.955	244.300	258.305
80.0	74.690	127.596	185.170	222.515	234.964
82.5	52.128	105.811	164.163	201.509	214.735
85.0	33.455	87.139	145.491	182.836	196.062
87.5	19.451	71.578	129.152	166.498	178.946
90.0	8.558	60.686	116.704	154.049	165.719
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-H-835-F-DL-ABL-8H-ITL90630 ITL85134.211.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	278.12	N.A.	6.00
0-30	591.00	N.A.	12.80
0-40	969.43	N.A.	20.90
0-60	1745.97	N.A.	37.70
0-80	2296.44	N.A.	49.60
0-90	2443.37	N.A.	52.70
10-90	2371.71	N.A.	51.20
20-40	691.32	N.A.	14.90
20-50	1090.55	N.A.	23.50
40-70	1094.57	N.A.	23.60
60-80	550.47	N.A.	11.90
70-80	232.44	N.A.	5.00
80-90	146.92	N.A.	3.20
90-110	307.41	N.A.	6.60
90-120	574.89	N.A.	12.40
90-130	904.64	N.A.	19.50
90-150	1621.32	N.A.	35.00
90-180	2189.87	N.A.	47.30
110-180	1882.46	N.A.	40.60
0-180	4633.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.65
10-20	206.46
20-30	312.89
30-40	378.43
40-50	399.23
50-60	377.31
60-70	318.03
70-80	232.44
80-90	146.92
90-100	116.83
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

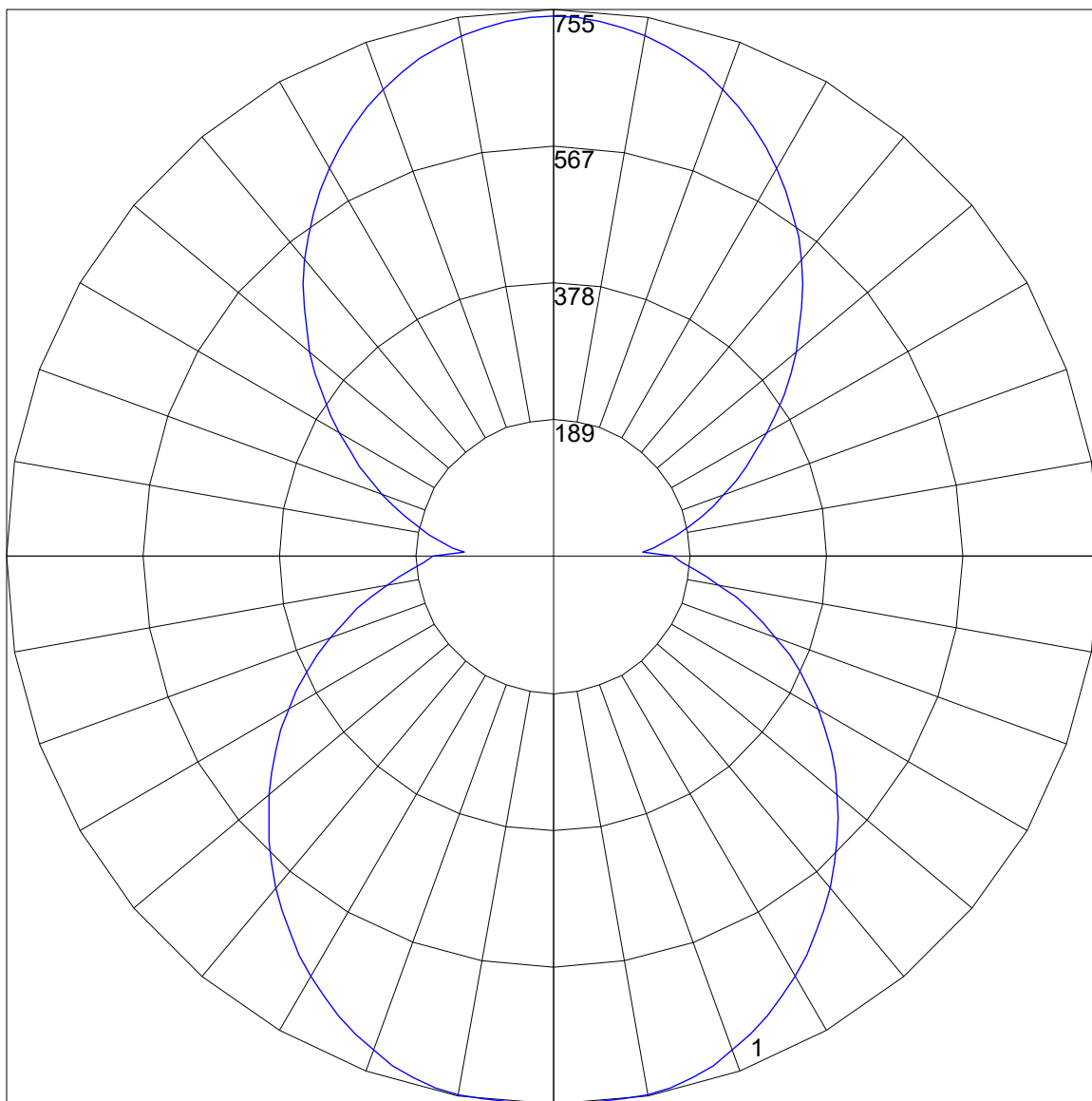
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	97	92	88	84	90	85	82	78	73	70	67	61	59	57	50	48	47	42
2	88	80	73	68	81	74	68	63	63	58	55	53	49	46	43	41	39	34
3	80	70	62	56	73	65	58	52	55	50	45	46	42	39	38	35	32	28
4	73	61	53	47	67	57	50	44	49	43	38	41	36	33	34	30	28	24
5	67	55	46	40	61	51	43	37	43	37	33	36	32	28	30	27	24	21
6	61	49	40	34	57	45	38	32	39	33	28	33	28	25	27	24	21	18
7	57	44	36	30	52	41	34	28	35	29	25	30	25	22	25	21	18	16
8	53	40	32	26	49	37	30	25	32	26	22	27	23	19	23	19	16	14
9	49	36	29	23	45	34	27	22	29	24	20	25	20	17	21	17	15	13
10	46	33	26	21	42	31	24	20	27	22	18	23	19	15	19	16	13	11

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POLAR GRAPH



Maximum Candela = 755.463 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)