

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-H-B-835-F-DSO-ITL85132-ITL94139.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL94139.008 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]12/17/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-H-B-835-F-DSO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 46.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 47.7 WATTS

[ABSOLUTE]LUMENS]4650

[OTHER]see www.finelite.com for source files ITL85132 and ITL94139. 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	4651
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	46.1
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
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7114	8992	9235
55	6469	8280	8280
65	5804	7356	7153
75	5161	6278	5946
85	4481	4750	4302

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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	599.922	599.922	599.922	599.922	599.922
2.5	598.893	598.893	599.407	600.436	600.436
5.0	595.806	596.320	598.893	601.465	602.494
7.5	590.146	592.204	596.835	602.494	605.581
10.0	582.943	585.515	595.806	606.611	610.212
12.5	574.196	577.283	594.777	609.698	613.814
15.0	562.362	567.508	591.690	610.727	615.872
17.5	550.014	556.703	587.573	610.727	616.901
20.0	534.579	544.354	582.428	608.154	614.843
22.5	518.114	529.948	573.682	602.494	610.212
25.0	499.592	515.542	563.906	594.777	601.980
27.5	481.069	500.106	552.587	583.972	591.175
30.0	461.003	483.642	538.180	569.566	575.225
32.5	440.423	465.120	523.259	553.101	557.732
35.0	418.813	445.568	506.281	533.035	536.122
37.5	397.718	426.017	486.214	510.911	512.455
40.0	375.080	405.436	464.605	487.243	486.214
42.5	353.470	383.827	442.481	460.489	458.431
45.0	331.346	361.702	418.813	433.220	430.133
47.5	309.737	339.578	393.088	404.921	401.834
50.0	287.098	316.940	366.848	375.594	370.449
52.5	264.974	293.272	340.093	346.782	341.636
55.0	244.393	270.119	312.824	316.940	312.824
57.5	222.784	246.966	285.555	288.127	281.438
60.0	202.203	223.298	258.285	260.343	253.655
62.5	182.652	200.660	232.045	231.531	226.386
65.0	161.557	179.050	204.776	204.262	199.116
67.5	143.035	156.926	179.050	177.507	172.362
70.0	123.998	135.831	154.354	151.781	147.151
72.5	105.475	115.251	130.172	127.599	123.483
75.0	87.982	95.185	107.019	104.446	101.359
77.5	71.517	76.662	84.895	82.322	79.749
80.0	56.082	58.654	64.829	61.742	59.684
82.5	41.161	42.190	45.277	43.219	41.675
85.0	25.726	26.755	27.269	25.726	24.697
87.5	11.834	11.834	10.805	10.290	9.261
90.0	0.000	0.000	0.000	0.000	0.000
92.5	23.336	23.336	23.336	25.669	25.669
95.0	55.228	52.895	52.895	53.673	54.451
97.5	87.121	84.787	83.232	84.009	84.009
100.0	119.791	115.902	115.902	115.902	115.124
102.5	154.017	150.906	149.350	148.572	148.572
105.0	189.799	187.465	183.576	182.798	182.020
107.5	226.359	224.025	219.358	218.580	217.802
110.0	264.474	262.140	258.251	256.695	254.362
112.5	304.145	300.256	297.922	294.033	291.699
115.0	343.816	341.483	339.927	332.148	330.593
117.5	385.821	381.932	381.932	372.597	371.042
120.0	428.604	422.381	423.936	414.602	411.491
122.5	469.053	462.830	465.941	458.163	452.717
125.0	514.169	504.834	507.946	500.167	496.278
127.5	558.507	548.395	549.951	543.728	542.172
130.0	602.067	591.955	593.511	585.732	586.510
132.5	645.628	634.738	637.071	629.293	629.293

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-F-DSO-ITL85132-ITL94139.008.IES****CANDELA TABULATION - (Cont.)**

135.0	687.633	677.520	680.632	673.631	673.631
137.5	730.415	720.303	723.414	717.192	716.414
140.0	773.198	763.086	765.419	761.530	759.196
142.5	813.647	802.757	805.868	801.979	798.867
145.0	854.874	843.206	846.317	843.206	837.761
147.5	892.989	881.321	885.210	880.543	875.098
150.0	929.549	917.881	922.548	917.103	912.436
152.5	964.553	952.885	957.552	952.885	948.217
155.0	998.001	986.333	991.778	987.111	982.443
157.5	1026.782	1015.892	1022.115	1017.447	1012.780
160.0	1054.785	1044.673	1050.118	1045.451	1040.783
162.5	1078.899	1070.342	1074.232	1071.120	1068.009
165.0	1100.679	1092.900	1095.234	1093.678	1091.345
167.5	1117.014	1112.347	1113.903	1112.347	1111.569
170.0	1131.794	1129.460	1130.238	1128.682	1127.904
172.5	1144.239	1143.461	1143.461	1142.684	1142.684
175.0	1152.796	1152.796	1152.796	1152.796	1152.018
177.5	1157.463	1158.241	1158.241	1158.241	1157.463
180.0	1160.575	1160.575	1160.575	1160.575	1160.575

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-F-DSO-ITL85132-ITL94139.008.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	223.70	N.A.	4.80
0-30	479.85	N.A.	10.30
0-40	786.28	N.A.	16.90
0-60	1356.9	N.A.	29.20
0-80	1654.18	N.A.	35.60
0-90	1684.25	N.A.	36.20
10-90	1627.18	N.A.	35.00
20-40	562.58	N.A.	12.10
20-50	869.79	N.A.	18.70
40-70	761.20	N.A.	16.40
60-80	297.29	N.A.	6.40
70-80	106.70	N.A.	2.30
80-90	30.07	N.A.	0.60
90-110	256.08	N.A.	5.50
90-120	590.97	N.A.	12.70
90-130	1042.66	N.A.	22.40
90-150	2093.73	N.A.	45.00
90-180	2966.28	N.A.	63.80
110-180	2710.2	N.A.	58.30
0-180	4650.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	57.07
10-20	166.63
20-30	256.15
30-40	306.43
40-50	307.21
50-60	263.41
60-70	190.59
70-80	106.70
80-90	30.07
90-100	59.94
100-110	196.14
110-120	334.89
120-130	451.69
130-140	523.16
140-150	527.91
150-160	454.88
160-170	308.38
170-180	109.30

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

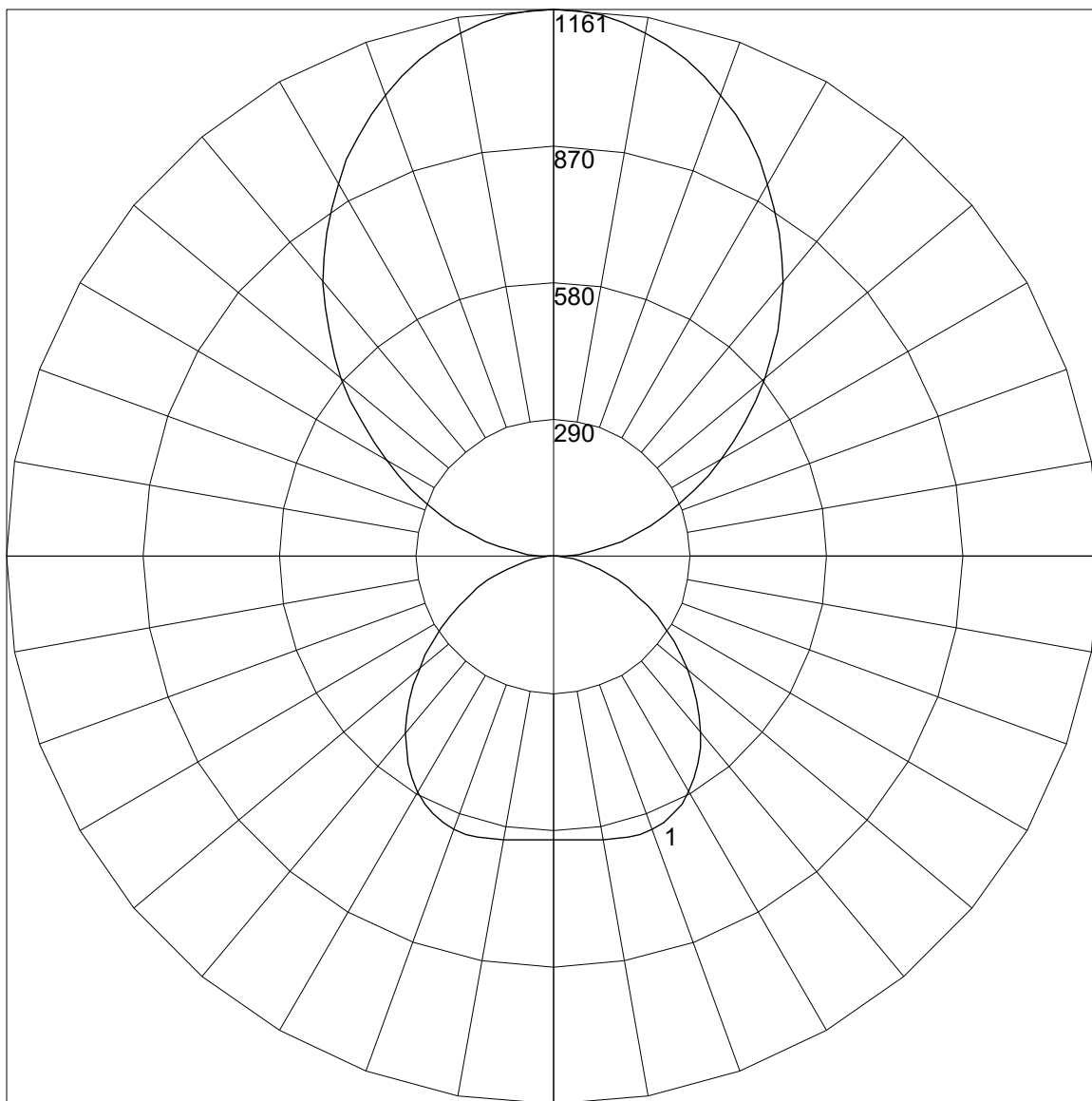
Effective Floor Cavity Reflectance 0.20

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	59	59	59	43	43	43	36
1	95	90	87	83	86	82	79	76	66	64	62	52	50	49	38	37	37	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	34	32	31	26
3	79	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26	22
4	72	61	54	48	65	56	49	44	45	40	37	36	32	29	27	24	23	19
5	66	54	47	41	59	50	43	38	40	35	31	32	28	25	24	22	20	16
6	61	49	41	35	55	44	38	33	36	31	27	29	25	22	22	19	17	14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	20	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11	9

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POLAR GRAPH



Maximum Candela = 1160.575 Located At Horizontal Angle = 0, Vertical Angle = 180

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