

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-4-ID-4FT-S-B-835-F-DAO-ITL85125-ITL94331.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.015 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/06/15

[ISSUEDATE]08/26/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-4ft-S-B-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 33.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 35.7 WATTS

[ABSOLUTE]LUMENS]3710

[CONVERT] Photometric web converted from original test data

[OTHER]see www.finelite.com for source files ITL85125 and ITL94331. 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	3710
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	33
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
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6175	6375	5284
55	5304	5670	4699
65	4441	4826	4096
75	3576	3957	3543
85	2802	3048	3097

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	798.777	798.777	798.777	798.777	798.777	798.777	798.777	798.777	798.777
2.5	815.247	814.217	810.100	804.439	798.262	791.057	785.910	781.793	780.249
5.0	828.114	826.055	818.849	807.527	794.145	781.278	768.926	762.235	759.662
7.5	837.893	834.290	824.511	807.527	787.454	767.382	750.398	741.133	737.531
10.0	844.583	841.495	826.570	804.439	779.219	751.942	731.869	719.002	712.826
12.5	846.642	844.069	826.570	798.262	769.441	734.443	711.797	695.842	689.151
15.0	844.583	841.495	822.967	788.998	755.544	714.885	690.181	672.167	664.961
17.5	837.893	835.319	816.276	778.190	739.589	694.298	665.476	648.492	639.742
20.0	826.570	825.026	805.983	762.750	722.090	671.138	641.286	623.787	616.067
22.5	811.129	809.585	792.086	746.795	703.562	646.948	618.126	599.083	593.421
25.0	791.572	791.057	775.102	728.267	680.916	622.758	593.421	575.922	571.290
27.5	768.411	768.411	754.000	706.650	657.241	597.539	567.173	553.277	547.615
30.0	741.648	743.192	730.325	682.975	630.993	570.261	543.498	530.116	526.514
32.5	711.797	713.856	704.077	658.271	603.715	544.013	518.279	506.956	505.412
35.0	676.799	681.946	676.284	629.963	574.378	516.220	494.089	485.339	483.281
37.5	642.830	649.006	643.860	600.112	543.498	488.942	468.870	463.723	463.208
40.0	604.744	613.494	611.435	569.232	513.647	460.635	443.651	440.563	443.136
42.5	567.173	573.349	577.981	537.836	482.766	433.357	419.461	419.461	421.520
45.0	524.455	534.748	541.439	502.324	448.797	405.050	395.271	398.359	400.933
47.5	485.339	496.662	504.382	468.870	417.917	378.287	369.537	376.228	381.375
50.0	445.709	455.488	466.296	435.416	385.492	351.524	345.862	354.097	359.759
52.5	406.594	415.344	428.725	399.389	353.582	322.187	321.672	331.451	338.142
55.0	365.420	377.258	390.639	363.876	323.731	296.453	297.483	309.320	317.040
57.5	328.363	338.142	352.553	330.422	292.851	269.690	273.293	287.189	294.909
60.0	290.277	302.115	316.526	297.483	264.029	244.471	248.589	262.485	270.720
62.5	256.823	265.058	281.013	263.514	236.236	219.252	225.943	239.839	248.074
65.0	225.428	232.634	244.986	231.604	207.929	196.092	201.238	216.679	224.399
67.5	192.489	198.665	211.532	201.753	181.166	171.902	179.107	193.518	198.665
70.0	164.696	169.328	180.651	172.416	156.976	148.741	155.947	169.328	174.990
72.5	135.874	141.021	151.315	144.109	133.301	126.610	134.330	145.139	151.315
75.0	111.170	115.287	123.008	118.375	110.141	106.023	112.199	122.493	127.640
77.5	88.524	91.098	97.274	94.700	88.524	85.436	91.612	99.332	102.421
80.0	66.908	68.967	73.599	73.084	67.937	66.393	71.025	77.716	79.775
82.5	47.350	47.865	51.468	50.953	49.409	48.380	51.468	55.585	57.644
85.0	29.337	29.337	31.910	31.910	32.425	30.881	32.939	34.483	36.027
87.5	11.323	12.352	13.382	14.411	14.926	14.411	14.926	15.440	15.955
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	12.280	13.099	13.917	15.555	15.964	15.555	13.917	13.099	12.280
95.0	29.062	29.472	31.109	33.156	33.565	33.156	31.109	29.472	29.062
97.5	47.073	47.482	49.529	51.576	51.166	51.576	49.529	47.482	47.073
100.0	65.493	66.311	68.358	70.405	69.995	70.405	68.358	66.311	65.493
102.5	84.322	85.959	88.006	90.053	90.053	90.053	88.006	85.959	84.322
105.0	105.198	106.835	108.882	110.519	110.110	110.519	108.882	106.835	105.198
107.5	127.302	128.530	129.758	131.395	131.395	131.395	129.758	128.530	127.302
110.0	151.043	151.043	152.271	153.908	153.499	153.908	152.271	151.043	151.043
112.5	174.784	173.965	175.603	178.059	176.012	178.059	175.603	173.965	174.784
115.0	198.525	197.706	198.525	200.572	198.934	200.572	198.525	197.706	198.525
117.5	222.266	222.676	223.085	223.494	222.266	223.494	223.085	222.676	222.266
120.0	246.417	247.235	246.826	246.417	245.598	246.417	246.826	247.235	246.417
122.5	270.976	271.795	271.795	270.567	269.339	270.567	271.795	271.795	270.976
125.0	295.946	297.174	297.174	294.718	293.490	294.718	297.174	297.174	295.946
127.5	320.915	321.733	322.552	318.868	316.412	318.868	322.552	321.733	320.915
130.0	345.065	345.475	346.293	343.837	341.791	343.837	346.293	345.475	345.065
132.5	369.625	369.216	369.625	367.988	365.532	367.988	369.625	369.216	369.625

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-S-B-835-F-DAO-ITL85125-ITL94331.015.IES****CANDELA TABULATION - (Cont.)**

135.0	394.185	392.138	393.366	392.138	389.273	392.138	393.366	392.138	394.185
137.5	417.926	414.651	416.698	415.061	412.195	415.061	416.698	414.651	417.926
140.0	441.667	437.983	440.439	438.802	435.527	438.802	440.439	437.983	441.667
142.5	463.362	460.496	463.362	460.906	458.040	460.906	463.362	460.496	463.362
145.0	486.693	481.781	485.056	482.600	479.735	482.600	485.056	481.781	486.693
147.5	507.569	502.657	505.932	503.476	500.611	503.476	505.932	502.657	507.569
150.0	528.036	522.714	525.989	523.533	521.077	523.533	525.989	522.714	528.036
152.5	546.046	541.953	545.228	542.362	540.316	542.362	545.228	541.953	546.046
155.0	563.647	559.554	562.419	559.963	557.917	559.963	562.419	559.554	563.647
157.5	580.839	576.746	579.202	576.746	575.109	576.746	579.202	576.746	580.839
160.0	595.575	592.301	594.756	592.301	591.073	592.301	594.756	592.301	595.575
162.5	609.492	605.808	608.674	606.218	605.399	606.218	608.674	605.808	609.492
165.0	620.954	618.088	619.726	618.498	618.088	618.498	619.726	618.088	620.954
167.5	631.187	628.731	629.959	629.140	629.140	629.140	629.959	628.731	631.187
170.0	639.783	638.145	638.964	638.145	638.145	638.145	638.964	638.145	639.783
172.5	645.923	645.923	645.513	645.513	645.513	645.513	645.513	645.923	645.923
175.0	650.835	650.835	650.835	650.425	650.835	650.425	650.835	650.835	650.835
177.5	653.700	654.109	654.109	654.109	654.109	654.109	654.109	654.109	653.700
180.0	654.928	654.928	654.928	654.928	654.928	654.928	654.928	654.928	654.928

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-S-B-835-F-DAO-ITL85125-ITL94331.015.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	288.05	N.A.	7.80
0-30	601.44	N.A.	16.20
0-40	963.80	N.A.	26.00
0-60	1621.64	N.A.	43.70
0-80	1962.58	N.A.	52.90
0-90	1998.75	N.A.	53.90
10-90	1923.43	N.A.	51.80
20-40	675.76	N.A.	18.20
20-50	1031.65	N.A.	27.80
40-70	875.58	N.A.	23.60
60-80	340.93	N.A.	9.20
70-80	123.20	N.A.	3.30
80-90	36.17	N.A.	1.00
90-110	150.16	N.A.	4.00
90-120	347.35	N.A.	9.40
90-130	611.88	N.A.	16.50
90-150	1216.58	N.A.	32.80
90-180	1711.1	N.A.	46.10
110-180	1560.94	N.A.	42.10
0-180	3709.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.32
10-20	212.73
20-30	313.39
30-40	362.37
40-50	355.90
50-60	301.94
60-70	217.74
70-80	123.20
80-90	36.17
90-100	35.09
100-110	115.07
110-120	197.19
120-130	264.53
130-140	302.62
140-150	302.09
150-160	258.30
160-170	174.48
170-180	61.73

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

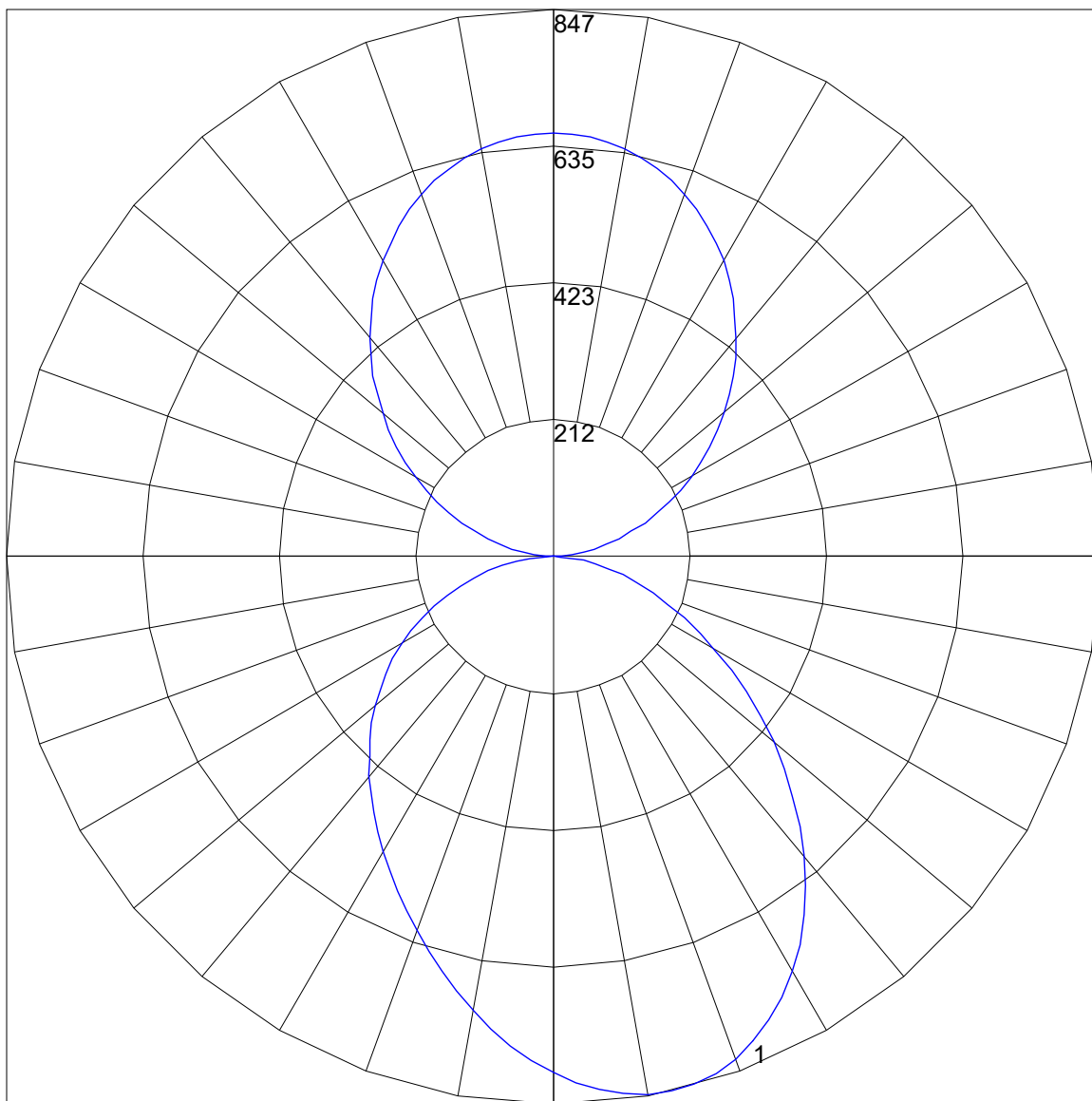
Effective Floor Cavity Reflectance 0.20

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	72	72	72	60	60	60	54
1	99	94	90	87	91	88	84	81	75	73	70	64	62	60	53	52	51	46
2	90	83	76	71	83	77	71	67	66	62	58	56	53	50	47	45	43	38
3	82	73	65	59	76	68	61	56	58	53	49	49	46	43	41	39	36	33
4	75	64	56	50	69	60	53	48	52	46	42	44	40	37	37	34	31	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	33	30	28	24
6	64	52	43	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	26	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15
10	48	36	28	23	44	33	27	22	29	24	20	26	21	18	22	18	16	14

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POLAR GRAPH



Maximum Candela = 846.642 Located At Horizontal Angle = 0, Vertical Angle = 12.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)