

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-S-835-F-DAO-ITL85125-ITL94331.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.003 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-S-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 29.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 32.0 WATTS

[ABSOLUTE]LUMENS]3301

[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	3301
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	29.1
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	4912	5071	4203
55	4219	4510	3738
65	3532	3839	3258
75	2844	3147	2818
85	2229	2425	2464

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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	635.345	635.345	635.345	635.345	635.345	635.345	635.345	635.345	635.345
2.5	648.445	647.626	644.351	639.848	634.936	629.205	625.111	621.836	620.608
5.0	658.680	657.042	651.311	642.305	631.661	621.427	611.602	606.280	604.233
7.5	666.458	663.592	655.814	642.305	626.339	610.374	596.864	589.496	586.630
10.0	671.779	669.323	657.451	639.848	619.789	598.092	582.127	571.893	566.980
12.5	673.417	671.370	657.451	634.936	612.011	584.174	566.162	553.471	548.149
15.0	671.779	669.323	654.586	627.567	600.958	568.618	548.968	534.640	528.909
17.5	666.458	664.411	649.264	618.971	588.268	552.243	529.318	515.809	508.849
20.0	657.451	656.223	641.077	606.689	574.349	533.821	510.077	496.159	490.018
22.5	645.170	643.942	630.024	593.999	559.611	514.581	491.656	476.509	472.006
25.0	629.614	629.205	616.514	579.261	541.599	495.340	472.006	458.087	454.403
27.5	611.192	611.192	599.730	562.068	522.768	475.281	451.128	440.075	435.572
30.0	589.905	591.133	580.899	543.237	501.890	453.584	432.297	421.653	418.788
32.5	566.162	567.799	560.021	523.587	480.193	432.706	412.238	403.231	402.003
35.0	538.324	542.418	537.915	501.071	456.859	410.600	392.997	386.038	384.400
37.5	511.306	516.218	512.124	477.328	432.297	388.903	372.938	368.844	368.435
40.0	481.012	487.971	486.334	452.765	408.553	366.388	352.879	350.422	352.469
42.5	451.128	456.040	459.725	427.794	383.991	344.691	333.638	333.638	335.276
45.0	417.150	425.337	430.659	399.547	356.972	322.176	314.398	316.854	318.901
47.5	386.038	395.044	401.185	372.938	332.410	300.888	293.929	299.251	303.345
50.0	354.516	362.294	370.891	346.329	306.620	279.601	275.098	281.648	286.151
52.5	323.404	330.363	341.007	317.673	281.239	256.267	255.857	263.636	268.957
55.0	290.654	300.070	310.713	289.426	257.495	235.798	236.617	246.033	252.173
57.5	261.179	268.957	280.420	262.817	232.933	214.511	217.376	228.430	234.570
60.0	230.886	240.301	251.764	236.617	210.008	194.452	197.727	208.780	215.330
62.5	204.277	210.827	223.517	209.599	187.902	174.393	179.714	190.767	197.317
65.0	179.305	185.036	194.861	184.217	165.386	155.971	160.065	172.346	178.486
67.5	153.105	158.018	168.252	160.474	144.099	136.730	142.462	153.924	158.018
70.0	130.999	134.683	143.690	137.140	124.859	118.308	124.040	134.683	139.186
72.5	108.074	112.168	120.355	114.624	106.027	100.706	106.846	115.443	120.355
75.0	88.424	91.699	97.840	94.156	87.606	84.331	89.243	97.430	101.524
77.5	70.412	72.459	77.371	75.324	70.412	67.956	72.868	79.009	81.465
80.0	53.218	54.856	58.540	58.131	54.037	52.809	56.493	61.815	63.453
82.5	37.662	38.072	40.937	40.528	39.300	38.481	40.937	44.212	45.850
85.0	23.334	23.334	25.381	25.381	25.790	24.562	26.200	27.428	28.656
87.5	9.006	9.825	10.644	11.462	11.872	11.462	11.872	12.281	12.691
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	222.675	223.085	223.494	222.266	223.494	223.085	222.675	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	345.474	346.293	343.837	341.791	343.837	346.293	345.474	345.065
132.5	369.625	369.216	369.625	367.988	365.532	367.988	369.625	369.216	369.625

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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	545.227	542.362	540.316	542.362	545.227	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	591.072	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-S-835-F-DAO-ITL85125-ITL94331.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	229.11	N.A.	6.90
0-30	478.38	N.A.	14.50
0-40	766.61	N.A.	23.20
0-60	1289.85	N.A.	39.10
0-80	1561.03	N.A.	47.30
0-90	1589.8	N.A.	48.20
10-90	1529.89	N.A.	46.30
20-40	537.49	N.A.	16.30
20-50	820.57	N.A.	24.90
40-70	696.43	N.A.	21.10
60-80	271.18	N.A.	8.20
70-80	97.99	N.A.	3.00
80-90	28.77	N.A.	0.90
90-110	150.16	N.A.	4.50
90-120	347.35	N.A.	10.50
90-130	611.88	N.A.	18.50
90-150	1216.58	N.A.	36.90
90-180	1711.1	N.A.	51.80
110-180	1560.94	N.A.	47.30
0-180	3300.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.91
10-20	169.21
20-30	249.27
30-40	288.23
40-50	283.08
50-60	240.16
60-70	173.19
70-80	97.99
80-90	28.77
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	258.29
160-170	174.48
170-180	61.73

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

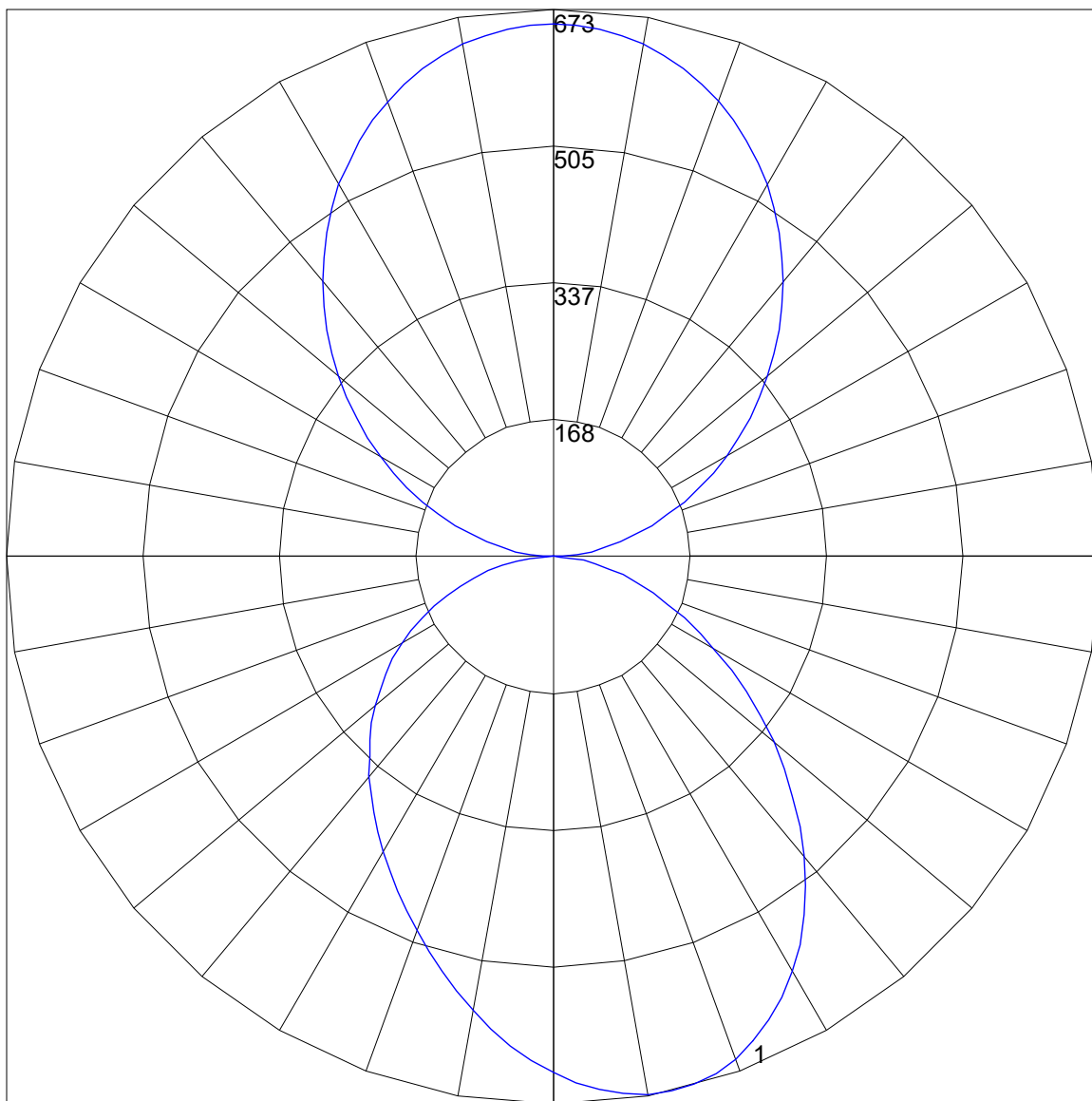
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	60	56	53	50	47	43	41	39	34
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	35	33	29
4	74	63	56	50	68	59	52	46	50	45	40	41	38	34	34	31	29	25
5	68	57	49	43	62	52	45	40	45	39	35	37	33	30	30	27	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	29	26	28	25	22	19
7	58	46	38	32	53	43	36	31	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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POLAR GRAPH



Maximum Candela = 673.417 Located At Horizontal Angle = 0, Vertical Angle = 12.5

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