

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-B-B-835-F-DAO-ITL85125-ITL94331.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.002 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/06/15

[ISSUEDATE]08/26/2021

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 36.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 39.5 WATTS

[ABSOLUTE]LUMENS]4150

[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	4150
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	36.9
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	798.263	791.057	785.910	781.793	780.249
5.0	828.114	826.055	818.850	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	779.220	751.942	731.869	719.002	712.826
12.5	846.642	844.069	826.570	798.263	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	722.091	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	728.266	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	448.798	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	321.673	331.451	338.142
55.0	365.420	377.257	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	232.633	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	172.417	156.976	148.741	155.947	169.328	174.990
72.5	135.875	141.021	151.315	144.109	133.301	126.610	134.330	145.139	151.315
75.0	111.170	115.287	123.008	118.376	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	15.438	16.467	17.496	19.555	20.069	19.555	17.496	16.467	15.438
95.0	36.536	37.051	39.109	41.682	42.197	41.682	39.109	37.051	36.536
97.5	59.178	59.693	62.266	64.839	64.324	64.839	62.266	59.693	59.178
100.0	82.335	83.364	85.937	88.510	87.995	88.510	85.937	83.364	82.335
102.5	106.006	108.064	110.638	113.210	113.210	113.210	110.638	108.064	106.006
105.0	132.250	134.309	136.882	138.940	138.425	138.940	136.882	134.309	132.250
107.5	160.038	161.582	163.126	165.184	165.184	165.184	163.126	161.582	160.038
110.0	189.885	189.885	191.429	193.487	192.972	193.487	191.429	189.885	189.885
112.5	219.731	218.702	220.760	223.848	221.275	223.848	220.760	218.702	219.731
115.0	249.578	248.548	249.578	252.151	250.092	252.151	249.578	248.548	249.578
117.5	279.424	279.939	280.453	280.968	279.424	280.968	280.453	279.939	279.424
120.0	309.785	310.814	310.300	309.785	308.756	309.785	310.300	310.814	309.785
122.5	340.661	341.690	341.690	340.146	338.602	340.146	341.690	341.690	340.661
125.0	372.051	373.594	373.594	370.507	368.963	370.507	373.594	373.594	372.051
127.5	403.441	404.470	405.499	400.868	397.780	400.868	405.499	404.470	403.441
130.0	433.802	434.317	435.346	432.258	429.685	432.258	435.346	434.317	433.802
132.5	464.678	464.163	464.678	462.619	459.532	462.619	464.678	464.163	464.678

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-835-F-DAO-ITL85125-ITL94331.002.IES****CANDELA TABULATION - (Cont.)**

135.0	495.553	492.980	494.524	492.980	489.378	492.980	494.524	492.980	495.553
137.5	525.399	521.283	523.856	521.797	518.195	521.797	523.856	521.283	525.399
140.0	555.246	550.615	553.702	551.644	547.527	551.644	553.702	550.615	555.246
142.5	582.519	578.917	582.519	579.432	575.830	579.432	582.519	578.917	582.519
145.0	611.851	605.676	609.793	606.705	603.103	606.705	609.793	605.676	611.851
147.5	638.095	631.920	636.037	632.949	629.347	632.949	636.037	631.920	638.095
150.0	663.825	657.135	661.252	658.164	655.077	658.164	661.252	657.135	663.825
152.5	686.467	681.321	685.438	681.836	679.263	681.836	685.438	681.321	686.467
155.0	708.595	703.449	707.051	703.963	701.390	703.963	707.051	703.449	708.595
157.5	730.207	725.062	728.149	725.062	723.003	725.062	728.149	725.062	730.207
160.0	748.733	744.616	747.704	744.616	743.072	744.616	747.704	744.616	748.733
162.5	766.229	761.598	765.200	762.112	761.083	762.112	765.200	761.598	766.229
165.0	780.638	777.035	779.094	777.550	777.035	777.550	779.094	777.035	780.638
167.5	793.502	790.415	791.959	790.929	790.929	790.929	791.959	790.415	793.502
170.0	804.309	802.250	803.280	802.250	802.250	802.250	803.280	802.250	804.309
172.5	812.028	812.028	811.513	811.513	811.513	811.513	811.513	812.028	812.028
175.0	818.203	818.203	818.203	817.688	818.203	817.688	818.203	818.203	818.203
177.5	821.805	822.320	822.320	822.320	822.320	822.320	822.320	822.320	821.805
180.0	823.349	823.349	823.349	823.349	823.349	823.349	823.349	823.349	823.349

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-B-835-F-DAO-ITL85125-ITL94331.002.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	288.05	N.A.	6.90
0-30	601.44	N.A.	14.50
0-40	963.81	N.A.	23.20
0-60	1621.64	N.A.	39.10
0-80	1962.58	N.A.	47.30
0-90	1998.75	N.A.	48.20
10-90	1923.43	N.A.	46.30
20-40	675.76	N.A.	16.30
20-50	1031.65	N.A.	24.90
40-70	875.58	N.A.	21.10
60-80	340.94	N.A.	8.20
70-80	123.20	N.A.	3.00
80-90	36.17	N.A.	0.90
90-110	188.77	N.A.	4.50
90-120	436.67	N.A.	10.50
90-130	769.23	N.A.	18.50
90-150	1529.44	N.A.	36.90
90-180	2151.12	N.A.	51.80
110-180	1962.35	N.A.	47.30
0-180	4149.87	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	44.11
100-110	144.66
110-120	247.90
120-130	332.56
130-140	380.45
140-150	379.77
150-160	324.72
160-170	219.35
170-180	77.61

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

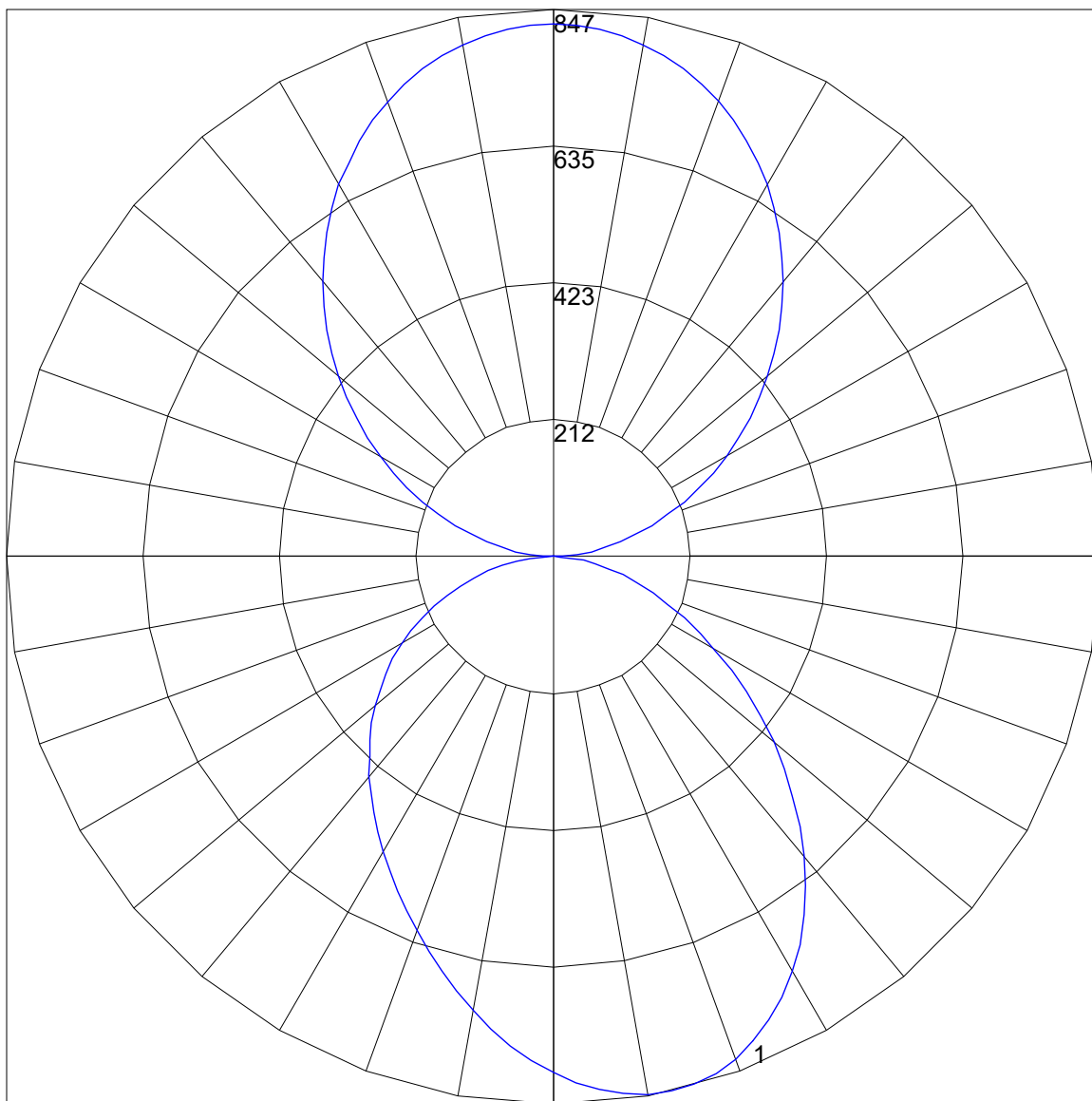
Effective Floor Cavity Reflectance 0.20

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	42	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 = 846.642 Located At Horizontal Angle = 0, Vertical Angle = 12.5

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