

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-V-S-835-F-DAO-ITL85125-ITL94331.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.006 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/06/15

[ISSUEDATE]08/26/2021

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 51.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.9 WATTS

[ABSOLUTE LUMENS]5770

[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	5770
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	51.6
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)	0.32 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	647.627	644.352	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	566.161	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	618.970	588.268	552.243	529.318	515.809	508.849
20.0	657.451	656.223	641.077	606.689	574.349	533.821	510.078	496.159	490.018
22.5	645.170	643.942	630.023	593.999	559.612	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	566.161	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	217.377	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	209.598	187.902	174.392	179.714	190.767	197.317
65.0	179.305	185.036	194.861	184.217	165.386	155.971	160.064	172.346	178.486
67.5	153.105	158.018	168.252	160.474	144.099	136.730	142.461	153.924	158.018
70.0	130.999	134.683	143.690	137.140	124.858	118.309	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	97.431	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	30.000	32.000	34.000	38.000	39.000	38.000	34.000	32.000	30.000
95.0	71.000	72.000	76.000	81.000	82.000	81.000	76.000	72.000	71.000
97.5	115.000	116.000	121.000	126.000	125.000	126.000	121.000	116.000	115.000
100.0	160.000	162.000	167.000	172.000	171.000	172.000	167.000	162.000	160.000
102.5	206.000	210.000	215.000	220.000	220.000	220.000	215.000	210.000	206.000
105.0	257.000	261.000	266.000	270.000	269.000	270.000	266.000	261.000	257.000
107.5	311.000	314.000	317.000	321.000	321.000	321.000	317.000	314.000	311.000
110.0	369.000	369.000	372.000	376.000	375.000	376.000	372.000	369.000	369.000
112.5	427.000	425.000	429.000	435.000	430.000	435.000	429.000	425.000	427.000
115.0	485.000	483.000	485.000	490.000	486.000	490.000	485.000	483.000	485.000
117.5	543.000	544.000	545.000	546.000	543.000	546.000	545.000	544.000	543.000
120.0	602.000	604.000	603.000	602.000	600.000	602.000	603.000	604.000	602.000
122.5	662.000	664.000	664.000	661.000	658.000	661.000	664.000	664.000	662.000
125.0	723.000	726.000	726.000	720.000	717.000	720.000	726.000	726.000	723.000
127.5	784.000	786.000	788.000	779.000	773.000	779.000	788.000	786.000	784.000
130.0	843.000	844.000	846.000	840.000	835.000	840.000	846.000	844.000	843.000
132.5	903.000	902.000	903.000	899.000	893.000	899.000	903.000	902.000	903.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-S-835-F-DAO-ITL85125-ITL94331.006.IES****CANDELA TABULATION - (Cont.)**

135.0	963.000	958.000	961.000	958.000	951.000	958.000	961.000	958.000	963.000
137.5	1021.000	1013.000	1018.000	1014.000	1007.000	1014.000	1018.000	1013.000	1021.000
140.0	1079.000	1070.000	1076.000	1072.000	1064.000	1072.000	1076.000	1070.000	1079.000
142.5	1132.000	1125.000	1132.000	1126.000	1119.000	1126.000	1132.000	1125.000	1132.000
145.0	1189.000	1177.000	1185.000	1179.000	1172.000	1179.000	1185.000	1177.000	1189.000
147.5	1240.000	1228.000	1236.000	1230.000	1223.000	1230.000	1236.000	1228.000	1240.000
150.0	1290.000	1277.000	1285.000	1279.000	1273.000	1279.000	1285.000	1277.000	1290.000
152.5	1334.000	1324.000	1332.000	1325.000	1320.000	1325.000	1332.000	1324.000	1334.000
155.0	1377.000	1367.000	1374.000	1368.000	1363.000	1368.000	1374.000	1367.000	1377.000
157.5	1419.000	1409.000	1415.000	1409.000	1405.000	1409.000	1415.000	1409.000	1419.000
160.0	1455.000	1447.000	1453.000	1447.000	1444.000	1447.000	1453.000	1447.000	1455.000
162.5	1489.000	1480.000	1487.000	1481.000	1479.000	1481.000	1487.000	1480.000	1489.000
165.0	1517.000	1510.000	1514.000	1511.000	1510.000	1511.000	1514.000	1510.000	1517.000
167.5	1542.000	1536.000	1539.000	1537.000	1537.000	1537.000	1539.000	1536.000	1542.000
170.0	1563.000	1559.000	1561.000	1559.000	1559.000	1559.000	1561.000	1559.000	1563.000
172.5	1578.000	1578.000	1577.000	1577.000	1577.000	1577.000	1577.000	1578.000	1578.000
175.0	1590.000	1590.000	1590.000	1589.000	1590.000	1589.000	1590.000	1590.000	1590.000
177.5	1597.000	1598.000	1598.000	1598.000	1598.000	1598.000	1598.000	1598.000	1597.000
180.0	1600.000	1600.000	1600.000	1600.000	1600.000	1600.000	1600.000	1600.000	1600.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-V-S-835-F-DAO-ITL85125-ITL94331.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	229.11	N.A.	4.00
0-30	478.38	N.A.	8.30
0-40	766.61	N.A.	13.30
0-60	1289.85	N.A.	22.40
0-80	1561.03	N.A.	27.10
0-90	1589.8	N.A.	27.60
10-90	1529.89	N.A.	26.50
20-40	537.49	N.A.	9.30
20-50	820.57	N.A.	14.20
40-70	696.43	N.A.	12.10
60-80	271.18	N.A.	4.70
70-80	97.99	N.A.	1.70
80-90	28.77	N.A.	0.50
90-110	366.84	N.A.	6.40
90-120	848.57	N.A.	14.70
90-130	1494.82	N.A.	25.90
90-150	2972.13	N.A.	51.50
90-180	4180.24	N.A.	72.40
110-180	3813.4	N.A.	66.10
0-180	5770.04	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	85.72
100-110	281.12
110-120	481.73
120-130	646.25
130-140	739.31
140-150	738.00
150-160	631.02
160-170	426.27
170-180	150.82

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

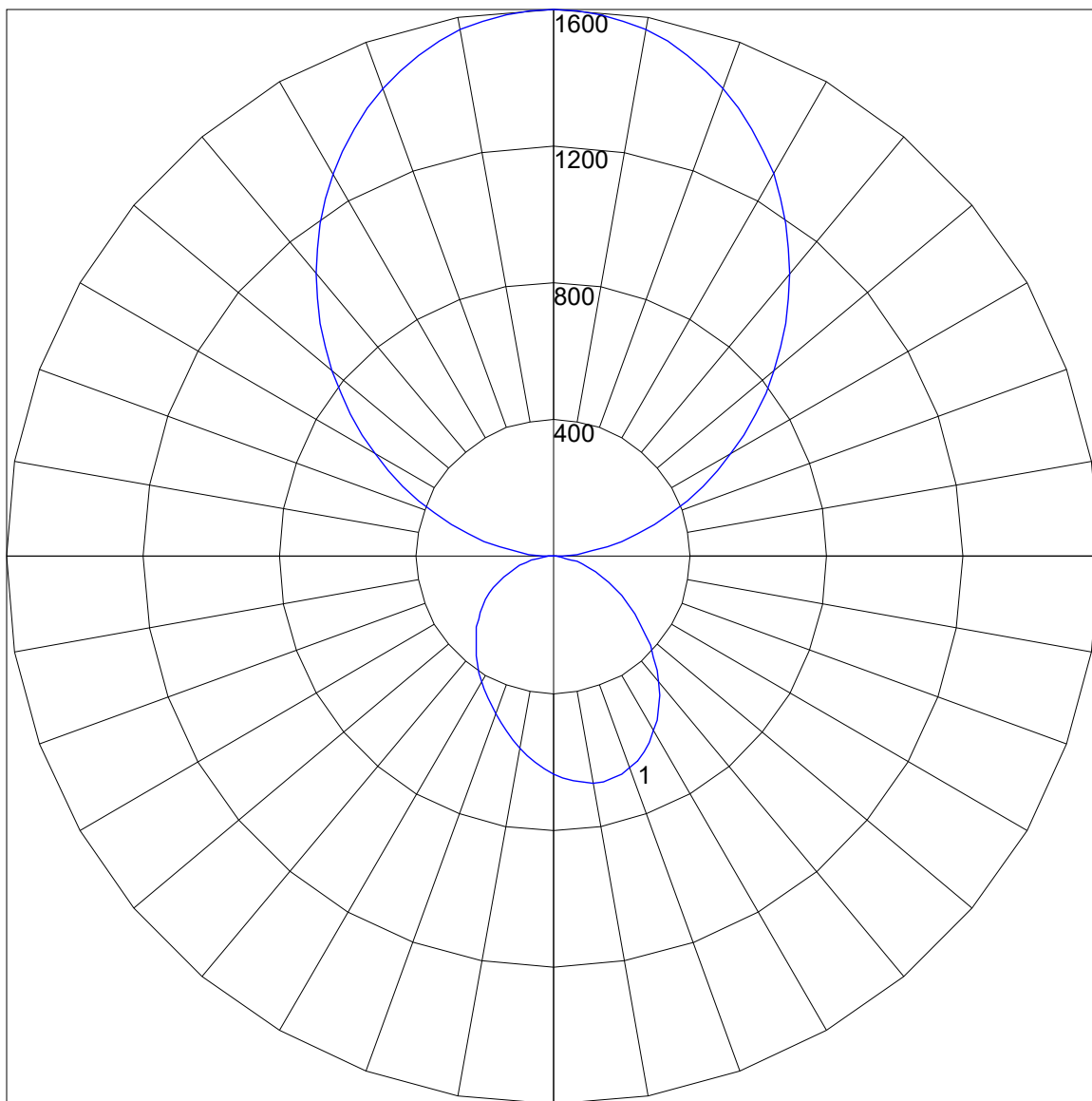
Effective Floor Cavity Reflectance 0.20

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	36	36	36	28
1	93	89	85	82	83	79	76	73	62	60	58	46	45	44	31	31	30	23
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	28	26	25	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	30	29	25	23	20	18	16	12
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	13	13	11	9	7

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POLAR GRAPH



Maximum Candela = 1600 Located At Horizontal Angle = 0, Vertical Angle = 180

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