

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-H-835-F-DAO-ITL85125-ITL94331.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.004 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-H-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 65.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 67.1 WATTS

[ABSOLUTE]LUMENS]7201

[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	7201
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	65.5
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	9332	9634	7986
55	8016	8569	7101
65	6711	7294	6190
75	5404	5980	5354
85	4235	4607	4681

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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	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155	1207.155
2.5	1232.045	1230.489	1224.267	1215.711	1206.377	1195.488	1187.710	1181.487	1179.154
5.0	1251.490	1248.379	1237.489	1220.378	1200.155	1180.709	1162.042	1151.931	1148.042
7.5	1266.268	1260.823	1246.045	1220.378	1190.043	1159.709	1134.041	1120.041	1114.596
10.0	1276.380	1271.713	1249.156	1215.711	1177.598	1136.375	1106.040	1086.595	1077.261
12.5	1279.491	1275.602	1249.156	1206.377	1162.820	1109.929	1075.706	1051.594	1041.482
15.0	1276.380	1271.713	1243.712	1192.377	1141.819	1080.373	1043.038	1015.815	1004.925
17.5	1266.268	1262.379	1233.600	1176.043	1117.707	1049.260	1005.703	980.036	966.813
20.0	1249.156	1246.823	1218.044	1152.708	1091.262	1014.259	969.146	942.701	931.034
22.5	1225.822	1223.489	1197.043	1128.597	1063.261	977.702	934.145	905.366	896.810
25.0	1196.266	1195.488	1171.376	1100.595	1029.037	941.145	896.810	870.365	863.365
27.5	1161.264	1161.264	1139.486	1067.928	993.258	903.033	857.142	836.141	827.586
30.0	1120.818	1123.152	1103.707	1032.149	953.590	861.809	821.363	801.140	795.696
32.5	1075.706	1078.817	1064.039	994.814	912.366	822.141	783.251	766.139	763.805
35.0	1022.815	1030.593	1022.037	952.035	868.031	780.139	746.694	733.471	730.360
37.5	971.480	980.813	973.035	906.922	821.363	738.916	708.581	700.803	700.025
40.0	913.922	927.145	924.034	860.253	776.250	696.136	670.469	665.802	669.691
42.5	857.142	866.476	873.476	812.807	729.582	654.913	633.912	633.912	637.023
45.0	792.584	808.140	818.252	759.139	678.247	612.133	597.355	602.022	605.911
47.5	733.471	750.583	762.250	708.581	631.578	571.687	558.465	568.576	576.354
50.0	673.580	688.358	704.692	658.024	582.577	531.242	522.686	535.131	543.686
52.5	614.467	627.689	647.912	603.577	534.353	486.907	486.129	500.907	511.019
55.0	552.242	570.132	590.355	549.909	489.240	448.016	449.572	467.461	479.129
57.5	496.240	511.019	532.797	499.351	442.572	407.570	413.015	434.016	445.683
60.0	438.683	456.572	478.351	449.572	399.014	369.458	375.680	396.681	409.126
62.5	388.125	400.570	424.682	398.237	357.013	331.345	341.457	362.458	374.902
65.0	340.679	351.568	370.236	350.013	314.234	296.344	304.122	327.456	339.123
67.5	290.899	300.233	319.678	304.900	273.788	259.787	270.676	292.455	300.233
70.0	248.898	255.898	273.010	260.565	237.231	224.786	235.675	255.898	264.454
72.5	205.341	213.119	228.675	217.786	201.452	191.340	203.007	219.341	228.675
75.0	168.006	174.229	185.896	178.895	166.450	160.228	169.562	185.118	192.896
77.5	133.783	137.672	147.005	143.116	133.783	129.116	138.449	150.117	154.783
80.0	101.115	104.226	111.226	110.448	102.670	100.337	107.337	117.449	120.560
82.5	71.558	72.336	77.781	77.003	74.669	73.114	77.781	84.003	87.114
85.0	44.335	44.335	48.224	48.224	49.002	46.668	49.780	52.113	54.446
87.5	17.112	18.667	20.223	21.779	22.556	21.779	22.556	23.334	24.112
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-H-835-F-DAO-ITL85125-ITL94331.004.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-H-835-F-DAO-ITL85125-ITL94331.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	435.32	N.A.	6.00
0-30	908.93	N.A.	12.60
0-40	1456.55	N.A.	20.20
0-60	2450.71	N.A.	34.00
0-80	2965.95	N.A.	41.20
0-90	3020.62	N.A.	41.90
10-90	2906.8	N.A.	40.40
20-40	1021.24	N.A.	14.20
20-50	1559.09	N.A.	21.70
40-70	1323.22	N.A.	18.40
60-80	515.24	N.A.	7.20
70-80	186.18	N.A.	2.60
80-90	54.67	N.A.	0.80
90-110	366.84	N.A.	5.10
90-120	848.57	N.A.	11.80
90-130	1494.82	N.A.	20.80
90-150	2972.13	N.A.	41.30
90-180	4180.24	N.A.	58.10
110-180	3813.4	N.A.	53.00
0-180	7200.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.82
10-20	321.50
20-30	473.61
30-40	547.63
40-50	537.85
50-60	456.31
60-70	329.06
70-80	186.18
80-90	54.67
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

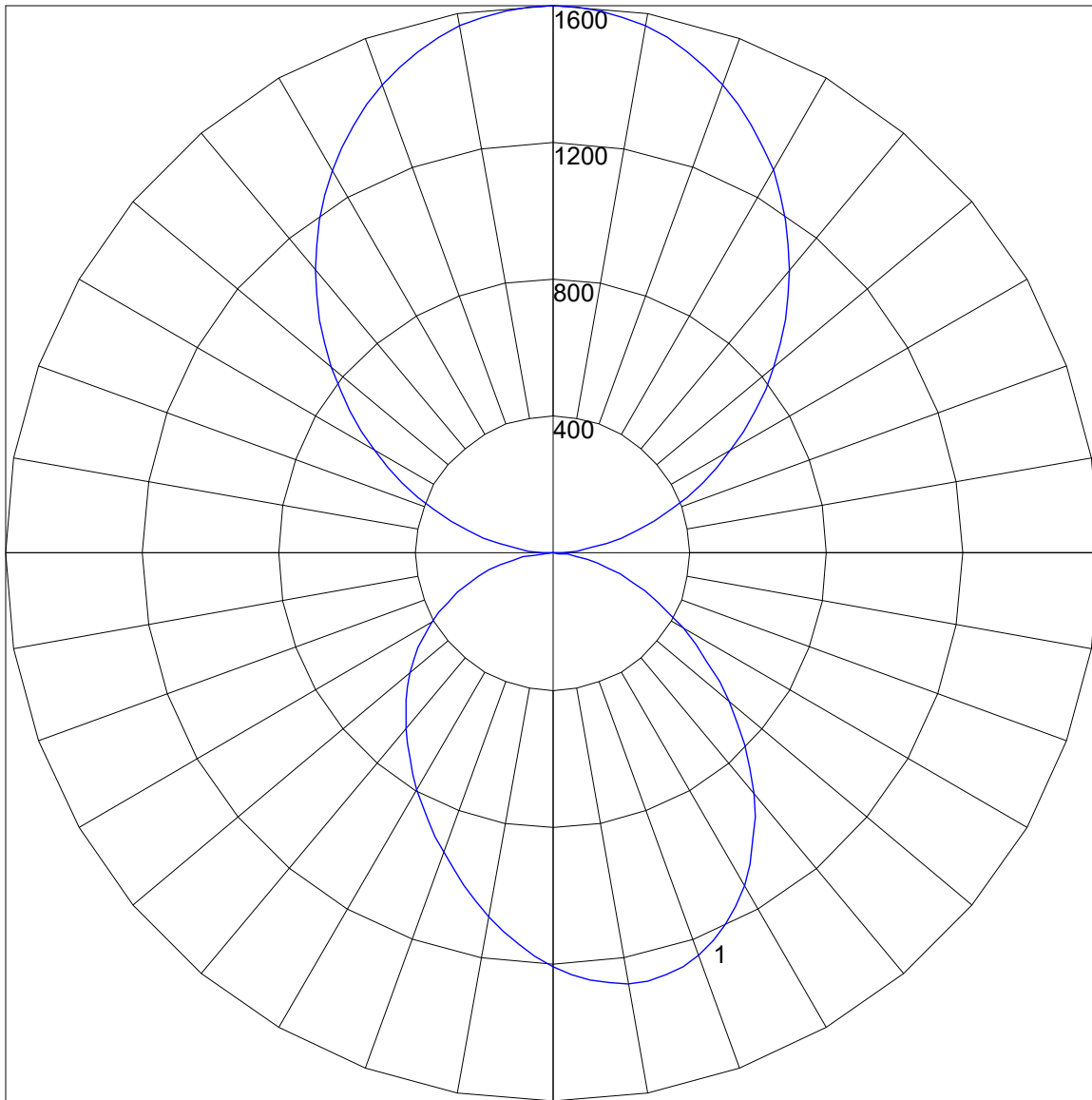
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	63	58	73	65	58	53	54	49	45	43	40	37	34	32	30	25
4	73	62	55	49	66	57	51	45	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	41	35	30	35	29	26	28	24	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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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.)