

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-P-D-4FT-H-V-835-ASY-DAO-ITL89988-ITL94331.607.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL94331.607 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]01/11/21

[_REVISED]08/25/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-P-D-4ft-H-V-835-ASY-DAO

[_INPUT_ELECTRICAL]120.0 VOLTS, 65.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 67.1 WATTS

[OTHER]see www.finelite.com for source files ITL89988 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

[_ABSOLUTE LUMENS]7334

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7330
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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)	0.33 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11807	12190	10104
55	10142	10842	8985
65	8492	9228	7832
75	6838	7566	6775
85	5358	5829	5923

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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	1552.000	1552.000	1552.000	1552.000	1552.000	1552.000	1552.000	1552.000	1552.000
2.5	1584.000	1582.000	1574.000	1563.000	1551.000	1537.000	1527.000	1519.000	1516.000
5.0	1609.000	1605.000	1591.000	1569.000	1543.000	1518.000	1494.000	1481.000	1476.000
7.5	1628.000	1621.000	1602.000	1569.000	1530.000	1491.000	1458.000	1440.000	1433.000
10.0	1641.000	1635.000	1606.000	1563.000	1514.000	1461.000	1422.000	1397.000	1385.000
12.5	1645.000	1640.000	1606.000	1551.000	1495.000	1427.000	1383.000	1352.000	1339.000
15.0	1641.000	1635.000	1599.000	1533.000	1468.000	1389.000	1341.000	1306.000	1292.000
17.5	1628.000	1623.000	1586.000	1512.000	1437.000	1349.000	1293.000	1260.000	1243.000
20.0	1606.000	1603.000	1566.000	1482.000	1403.000	1304.000	1246.000	1212.000	1197.000
22.5	1576.000	1573.000	1539.000	1451.000	1367.000	1257.000	1201.000	1164.000	1153.000
25.0	1538.000	1537.000	1506.000	1415.000	1323.000	1210.000	1153.000	1119.000	1110.000
27.5	1493.000	1493.000	1465.000	1373.000	1277.000	1161.000	1102.000	1075.000	1064.000
30.0	1441.000	1444.000	1419.000	1327.000	1226.000	1108.000	1056.000	1030.000	1023.000
32.5	1383.000	1387.000	1368.000	1279.000	1173.000	1057.000	1007.000	985.000	982.000
35.0	1315.000	1325.000	1314.000	1224.000	1116.000	1003.000	960.000	943.000	939.000
37.5	1249.000	1261.000	1251.000	1166.000	1056.000	950.000	911.000	901.000	900.000
40.0	1175.000	1192.000	1188.000	1106.000	998.000	895.000	862.000	856.000	861.000
42.5	1102.000	1114.000	1123.000	1045.000	938.000	842.000	815.000	815.000	819.000
45.0	1019.000	1039.000	1052.000	976.000	872.000	787.000	768.000	774.000	779.000
47.5	943.000	965.000	980.000	911.000	812.000	735.000	718.000	731.000	741.000
50.0	866.000	885.000	906.000	846.000	749.000	683.000	672.000	688.000	699.000
52.5	790.000	807.000	833.000	776.000	687.000	626.000	625.000	644.000	657.000
55.0	710.000	733.000	759.000	707.000	629.000	576.000	578.000	601.000	616.000
57.5	638.000	657.000	685.000	642.000	569.000	524.000	531.000	558.000	573.000
60.0	564.000	587.000	615.000	578.000	513.000	475.000	483.000	510.000	526.000
62.5	499.000	515.000	546.000	512.000	459.000	426.000	439.000	466.000	482.000
65.0	438.000	452.000	476.000	450.000	404.000	381.000	391.000	421.000	436.000
67.5	374.000	386.000	411.000	392.000	352.000	334.000	348.000	376.000	386.000
70.0	320.000	329.000	351.000	335.000	305.000	289.000	303.000	329.000	340.000
72.5	264.000	274.000	294.000	280.000	259.000	246.000	261.000	282.000	294.000
75.0	216.000	224.000	239.000	230.000	214.000	206.000	218.000	238.000	248.000
77.5	172.000	177.000	189.000	184.000	172.000	166.000	178.000	193.000	199.000
80.0	130.000	134.000	143.000	142.000	132.000	129.000	138.000	151.000	155.000
82.5	92.000	93.000	100.000	99.000	96.000	94.000	100.000	108.000	112.000
85.0	57.000	57.000	62.000	62.000	63.000	60.000	64.000	67.000	70.000
87.5	22.000	24.000	26.000	28.000	29.000	28.000	29.000	30.000	31.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	52.108	52.886	45.108	47.441	17.110	45.108	70.773	84.772	90.216
95.0	110.437	112.771	113.548	115.882	44.331	71.551	109.660	129.881	136.102
97.5	174.211	185.877	211.542	175.767	72.329	94.883	144.657	174.211	182.766
100.0	269.872	285.426	309.536	233.318	101.105	120.548	173.433	209.987	222.430
102.5	364.754	382.642	404.418	290.092	131.436	146.213	204.542	237.207	249.651
105.0	452.638	487.635	503.190	346.089	160.990	170.322	228.652	267.538	276.093
107.5	557.631	617.516	606.628	397.419	192.099	192.099	251.984	293.981	301.759
110.0	702.288	761.396	705.399	440.972	223.208	213.875	276.093	321.202	328.979
112.5	878.055	903.720	802.615	479.080	255.095	234.874	300.203	347.644	356.977
115.0	1038.267	1042.933	881.943	514.078	286.982	256.650	321.979	373.309	383.420
117.5	1188.368	1165.036	937.940	544.410	318.868	279.204	342.200	398.974	409.863
120.0	1308.916	1256.031	972.160	573.186	353.866	303.314	360.088	421.529	435.528
122.5	1396.022	1315.916	991.603	602.739	389.642	326.646	377.198	444.083	460.415
125.0	1447.352	1343.914	1001.714	630.737	423.862	349.200	391.975	461.193	482.191
127.5	1465.239	1347.803	1007.936	657.958	458.860	372.532	405.974	475.192	501.635
130.0	1457.462	1336.137	1012.602	686.734	493.080	395.086	419.195	483.747	513.301
132.5	1433.353	1316.694	1018.046	716.288	528.077	417.640	433.195	489.969	517.189

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-P-D-4FT-H-V-835-ASY-DAO-ITL89988-ITL94331.607.IES****CANDELA TABULATION - (Cont.)**

135.0	1402.244	1294.139	1025.045	745.841	563.075	444.083	446.416	494.635	518.745
137.5	1370.357	1272.363	1033.601	776.950	598.851	472.859	460.415	499.301	518.745
140.0	1338.470	1252.142	1042.933	808.059	635.404	503.968	473.636	503.190	518.745
142.5	1310.472	1237.365	1053.044	839.168	671.179	536.632	486.858	507.079	518.745
145.0	1288.695	1224.922	1063.154	869.500	706.955	568.519	500.857	512.523	519.522
147.5	1270.030	1215.589	1075.598	899.054	742.730	601.184	517.967	520.300	523.411
150.0	1255.253	1208.589	1088.819	927.052	778.506	636.182	539.743	528.855	529.633
152.5	1242.032	1202.367	1102.041	952.717	811.170	673.513	570.852	539.743	536.632
155.0	1229.588	1198.479	1113.707	975.271	843.057	713.177	608.961	556.076	549.076
157.5	1222.588	1196.923	1122.262	995.492	873.389	753.618	650.181	584.074	569.297
160.0	1217.144	1195.368	1127.706	1012.602	901.387	792.505	692.178	627.626	606.628
162.5	1207.034	1189.924	1128.483	1025.823	927.052	830.614	735.731	676.623	656.402
165.0	1195.368	1178.258	1124.595	1035.934	948.828	865.611	784.727	725.620	707.732
167.5	1175.925	1161.926	1114.484	1041.378	967.494	897.498	831.391	778.506	760.618
170.0	1151.037	1140.149	1101.263	1043.711	983.826	927.052	875.722	837.613	823.614
172.5	1119.928	1112.929	1082.597	1041.378	995.492	952.717	916.164	889.721	880.388
175.0	1089.597	1082.597	1062.377	1035.934	1005.602	976.049	952.717	936.385	930.163
177.5	1050.711	1047.600	1037.489	1025.045	1010.269	995.492	983.826	975.271	972.160
180.0	1012.602	1012.602	1012.602	1012.602	1012.602	1012.602	1012.602	1012.602	1012.602

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-P-D-4FT-H-V-835-ASY-DAO-ITL89988-ITL94331.607.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.67	N.A.	7.60
0-30	1168.58	N.A.	15.90
0-40	1872.64	N.A.	25.50
0-60	3150.8	N.A.	43.00
0-80	3813.23	N.A.	52.00
0-90	3883.51	N.A.	53.00
10-90	3737.17	N.A.	51.00
20-40	1312.97	N.A.	17.90
20-50	2004.47	N.A.	27.30
40-70	1701.22	N.A.	23.20
60-80	662.43	N.A.	9.00
70-80	239.36	N.A.	3.30
80-90	70.28	N.A.	1.00
90-110	449.14	N.A.	6.10
90-120	987.57	N.A.	13.50
90-130	1606.87	N.A.	21.90
90-150	2683.75	N.A.	36.60
90-180	3446.13	N.A.	47.00
110-180	2996.99	N.A.	40.90
0-180	7329.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.34
10-20	413.34
20-30	608.90
30-40	704.07
40-50	691.50
50-60	586.66
60-70	423.06
70-80	239.36
80-90	70.28
90-100	113.36
100-110	335.78
110-120	538.43
120-130	619.30
130-140	578.16
140-150	498.72
150-160	398.72
160-170	268.16
170-180	95.50

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

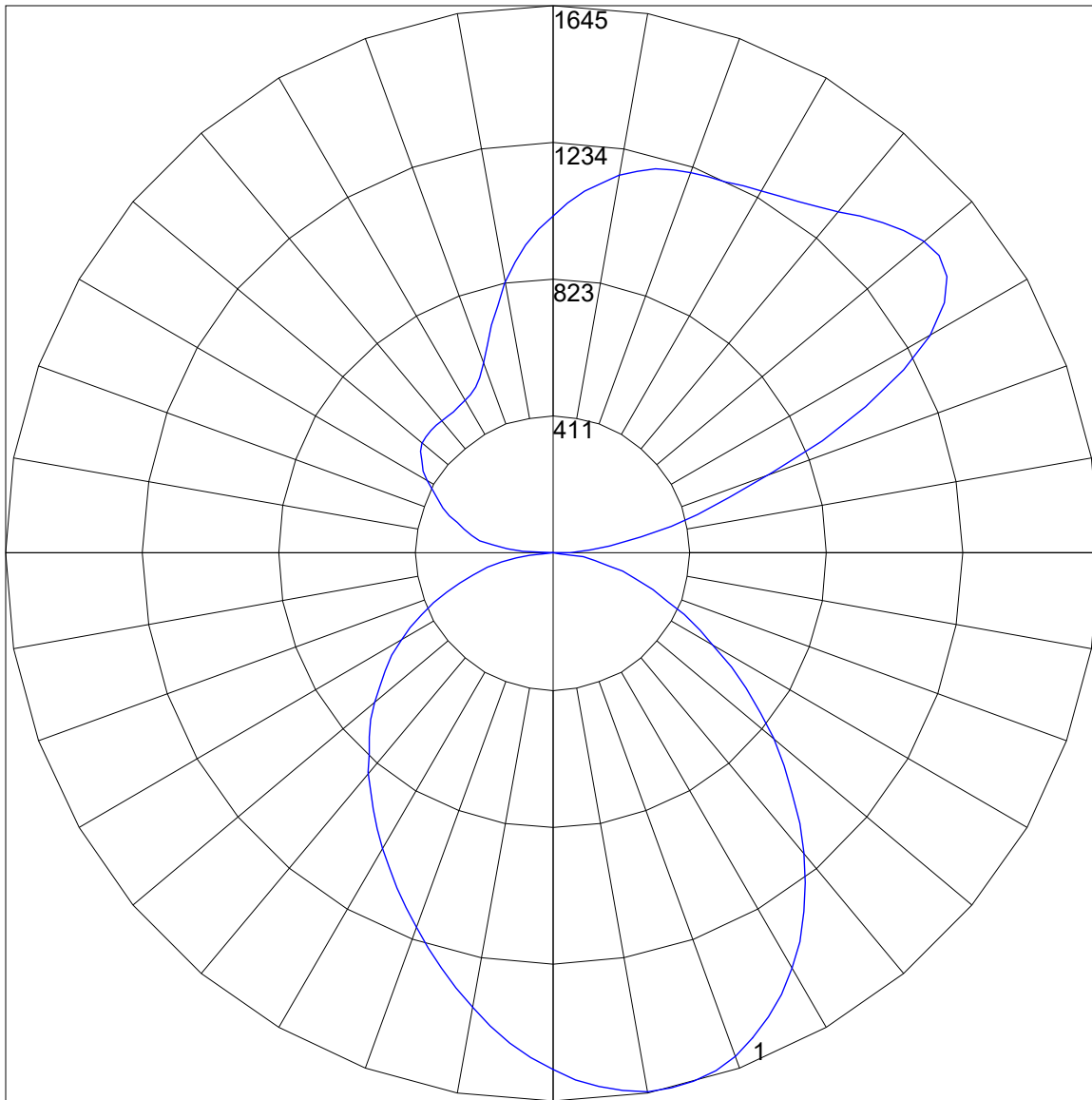
Effective Floor Cavity Reflectance 0.20

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	71	71	71	59	59	59	53
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45
2	90	82	76	71	83	77	71	67	66	62	58	55	52	50	46	44	42	38
3	82	72	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28
5	69	57	49	43	64	53	46	41	46	40	36	39	35	32	33	30	27	24
6	64	51	43	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21
7	59	46	39	33	54	43	36	31	38	32	28	32	28	25	27	24	21	19
8	55	42	34	29	50	40	33	28	34	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15
10	48	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14

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POLAR GRAPH



Maximum Candela = 1645 Located At Horizontal Angle = 0, Vertical Angle = 12.5

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