

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-B-V-8TW-ASY-DAO-ITL89988-ITL94331.910.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL94331.910 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-B-V-8TW-ASY-DAO

[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com

for lumen adjustment factors for other CCT's & CRI's

[_INPUT_ELECTRICAL]120.0 VOLTS, 61.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 63.4 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]6167

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6164
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	61.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
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	34.482	34.996	29.850	31.394	11.322	29.850	46.833	56.097	59.700
95.0	73.081	74.625	75.139	76.683	29.335	47.348	72.566	85.947	90.064
97.5	115.282	123.002	139.986	116.312	47.863	62.788	95.725	115.282	120.944
100.0	178.585	188.878	204.832	154.396	66.905	79.771	114.768	138.956	147.191
102.5	241.372	253.209	267.620	191.966	86.976	96.755	135.354	156.969	165.204
105.0	299.528	322.687	332.981	229.021	106.533	112.709	151.308	177.041	182.702
107.5	369.006	408.635	401.429	262.988	127.119	127.119	166.748	194.539	199.685
110.0	464.732	503.845	466.790	291.808	147.705	141.530	182.702	212.552	217.698
112.5	581.043	598.027	531.122	317.026	168.806	155.425	198.656	230.050	236.226
115.0	687.062	690.150	583.616	340.186	189.907	169.835	213.066	247.033	253.724
117.5	786.390	770.950	620.672	360.257	211.008	184.760	226.447	264.017	271.222
120.0	866.161	831.165	643.316	379.299	234.167	200.715	238.284	278.942	288.206
122.5	923.802	870.793	656.183	398.856	257.841	216.154	249.607	293.867	304.675
125.0	957.769	889.320	662.873	417.384	280.486	231.079	259.385	305.189	319.085
127.5	969.606	891.894	666.990	435.396	303.645	246.519	268.649	314.453	331.951
130.0	964.460	884.174	670.078	454.439	326.290	261.444	277.398	320.114	339.671
132.5	948.505	871.308	673.681	473.995	349.449	276.369	286.662	324.231	342.244

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-P-D-4FT-B-V-8TW-ASY-DAO-ITL89988-ITL94331.910.IES****CANDELA TABULATION - (Cont.)**

135.0	927.919	856.383	678.313	493.552	372.609	293.867	295.411	327.319	343.274
137.5	906.819	841.972	683.974	514.138	396.283	312.909	304.675	330.407	343.274
140.0	885.718	828.591	690.150	534.725	420.471	333.495	313.424	332.981	343.274
142.5	867.190	818.813	696.840	555.311	444.146	355.111	322.173	335.554	343.274
145.0	852.780	810.578	703.531	575.382	467.820	376.211	331.437	339.156	343.788
147.5	840.428	804.403	711.765	594.939	491.494	397.827	342.759	344.303	346.361
150.0	830.650	799.771	720.514	613.466	515.168	420.986	357.169	349.964	350.479
152.5	821.901	795.654	729.263	630.450	536.783	445.690	377.755	357.169	355.111
155.0	813.666	793.080	736.983	645.375	557.884	471.937	402.973	367.977	363.345
157.5	809.034	792.051	742.644	658.756	577.955	498.699	430.250	386.504	376.726
160.0	805.432	791.022	746.247	670.078	596.483	524.431	458.041	415.325	401.429
162.5	798.741	787.419	746.761	678.827	613.466	549.649	486.862	447.748	434.367
165.0	791.022	779.699	744.188	685.518	627.877	572.809	519.285	480.171	468.334
167.5	778.155	768.892	737.498	689.120	640.228	593.909	550.164	515.168	503.331
170.0	761.687	754.481	728.749	690.664	651.036	613.466	579.499	554.281	545.018
172.5	741.100	736.468	716.397	689.120	658.756	630.450	606.261	588.763	582.587
175.0	721.029	716.397	703.016	685.518	665.446	645.889	630.450	619.642	615.525
177.5	695.296	693.238	686.547	678.313	668.534	658.756	651.036	645.375	643.316
180.0	670.078	670.078	670.078	670.078	670.078	670.078	670.078	670.078	670.078

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-P-D-4FT-B-V-8TW-ASY-DAO-ITL89988-ITL94331.910.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.67	N.A.	9.10
0-30	1168.58	N.A.	19.00
0-40	1872.64	N.A.	30.40
0-60	3150.8	N.A.	51.10
0-80	3813.23	N.A.	61.90
0-90	3883.51	N.A.	63.00
10-90	3737.17	N.A.	60.60
20-40	1312.97	N.A.	21.30
20-50	2004.47	N.A.	32.50
40-70	1701.22	N.A.	27.60
60-80	662.43	N.A.	10.70
70-80	239.36	N.A.	3.90
80-90	70.28	N.A.	1.10
90-110	297.21	N.A.	4.80
90-120	653.51	N.A.	10.60
90-130	1063.33	N.A.	17.30
90-150	1775.95	N.A.	28.80
90-180	2280.44	N.A.	37.00
110-180	1983.22	N.A.	32.20
0-180	6163.95	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	75.02
100-110	222.20
110-120	356.30
120-130	409.81
130-140	382.59
140-150	330.02
150-160	263.85
160-170	177.45
170-180	63.19

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

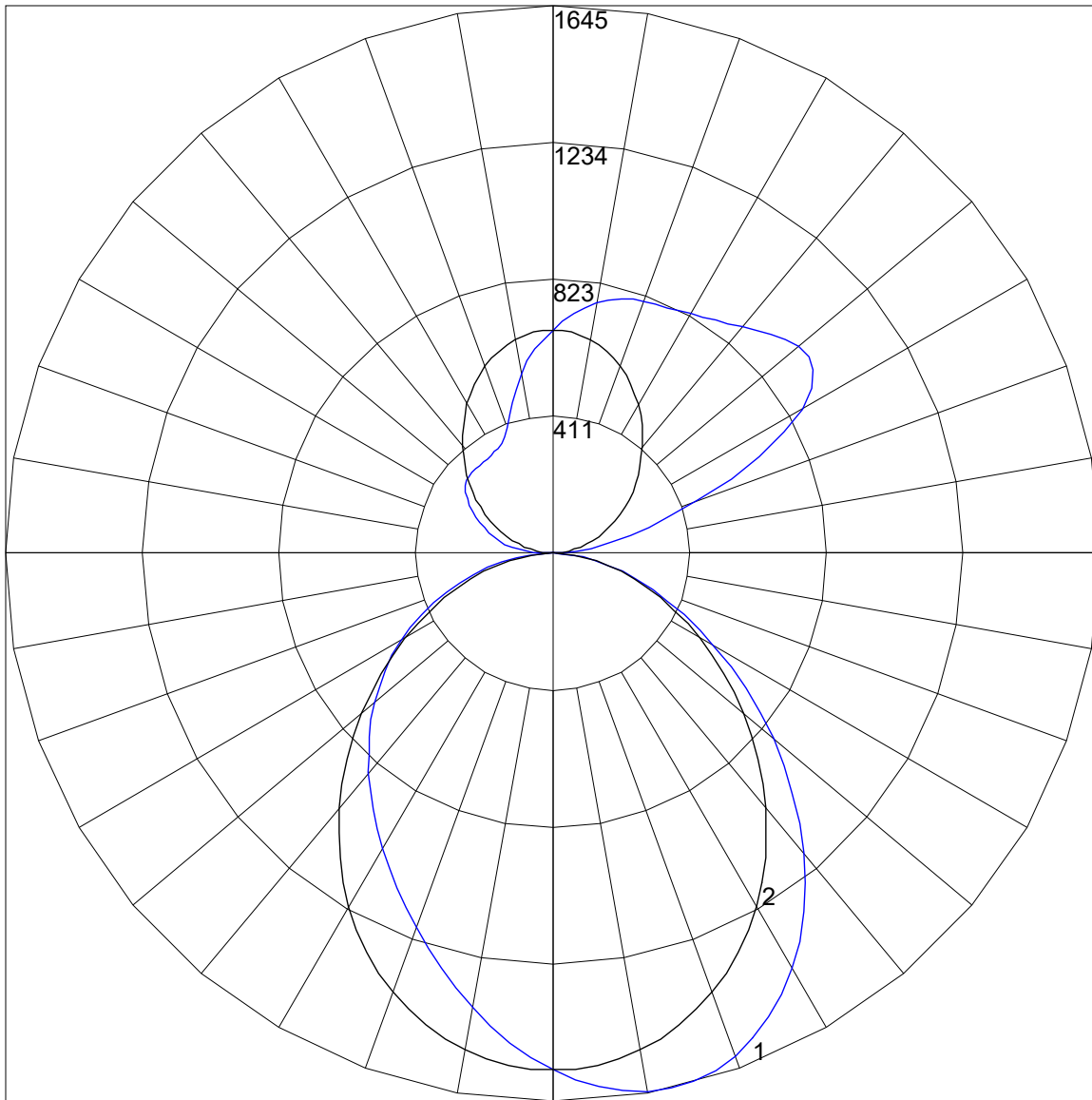
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	101	96	92	89	94	91	87	84	80	77	75	70	68	66	60	59	58	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	49	55	49	45	48	44	40	42	39	36	33
5	71	59	51	44	66	56	48	43	49	43	39	44	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	45	38	34	39	35	31	35	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	32	28	25	22
8	56	44	36	30	53	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	26	22	27	23	20	18
10	49	37	29	24	46	35	28	24	31	26	22	28	23	20	25	21	18	16

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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.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)