

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-V-B-835-ASY-DAO-ITL89988-ITL94331.605.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL94331.605 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-V-B-835-ASY-DAO

[_INPUT_ELECTRICAL]120.0 VOLTS, 55.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 57.6 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]6435

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	55.6
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)	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	6077	6274	5200
55	5220	5580	4624
65	4370	4750	4031
75	3519	3894	3487
85	2758	3000	3048

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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	67.000	68.000	58.000	61.000	22.000	58.000	91.000	109.000	116.000
95.0	142.000	145.000	146.000	149.000	57.000	92.000	141.000	167.000	175.000
97.5	224.000	239.000	272.000	226.000	93.000	122.000	186.000	224.000	235.000
100.0	347.000	367.000	398.000	300.000	130.000	155.000	223.000	270.000	286.000
102.5	469.000	492.000	520.000	373.000	169.000	188.000	263.000	305.000	321.000
105.0	582.000	627.000	647.000	445.000	207.000	219.000	294.000	344.000	355.000
107.5	717.000	794.000	780.000	511.000	247.000	247.000	324.000	378.000	388.000
110.0	903.000	979.000	907.000	567.000	287.000	275.000	355.000	413.000	423.000
112.5	1129.000	1162.000	1032.000	616.000	328.000	302.000	386.000	447.000	459.000
115.0	1335.000	1341.000	1134.000	661.000	369.000	330.000	414.000	480.000	493.000
117.5	1528.000	1498.000	1206.000	700.000	410.000	359.000	440.000	513.000	527.000
120.0	1683.000	1615.000	1250.000	737.000	455.000	390.000	463.000	542.000	560.000
122.5	1795.000	1692.000	1275.000	775.000	501.000	420.000	485.000	571.000	592.000
125.0	1861.000	1728.000	1288.000	811.000	545.000	449.000	504.000	593.000	620.000
127.5	1884.000	1733.000	1296.000	846.000	590.000	479.000	522.000	611.000	645.000
130.0	1874.000	1718.000	1302.000	883.000	634.000	508.000	539.000	622.000	660.000
132.5	1843.000	1693.000	1309.000	921.000	679.000	537.000	557.000	630.000	665.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-P-D-4FT-V-B-835-ASY-DAO-ITL89988-ITL94331.605.IES****CANDELA TABULATION - (Cont.)**

135.0	1803.000	1664.000	1318.000	959.000	724.000	571.000	574.000	636.000	667.000
137.5	1762.000	1636.000	1329.000	999.000	770.000	608.000	592.000	642.000	667.000
140.0	1721.000	1610.000	1341.000	1039.000	817.000	648.000	609.000	647.000	667.000
142.5	1685.000	1591.000	1354.000	1079.000	863.000	690.000	626.000	652.000	667.000
145.0	1657.000	1575.000	1367.000	1118.000	909.000	731.000	644.000	659.000	668.000
147.5	1633.000	1563.000	1383.000	1156.000	955.000	773.000	666.000	669.000	673.000
150.0	1614.000	1554.000	1400.000	1192.000	1001.000	818.000	694.000	680.000	681.000
152.5	1597.000	1546.000	1417.000	1225.000	1043.000	866.000	734.000	694.000	690.000
155.0	1581.000	1541.000	1432.000	1254.000	1084.000	917.000	783.000	715.000	706.000
157.5	1572.000	1539.000	1443.000	1280.000	1123.000	969.000	836.000	751.000	732.000
160.0	1565.000	1537.000	1450.000	1302.000	1159.000	1019.000	890.000	807.000	780.000
162.5	1552.000	1530.000	1451.000	1319.000	1192.000	1068.000	946.000	870.000	844.000
165.0	1537.000	1515.000	1446.000	1332.000	1220.000	1113.000	1009.000	933.000	910.000
167.5	1512.000	1494.000	1433.000	1339.000	1244.000	1154.000	1069.000	1001.000	978.000
170.0	1480.000	1466.000	1416.000	1342.000	1265.000	1192.000	1126.000	1077.000	1059.000
172.5	1440.000	1431.000	1392.000	1339.000	1280.000	1225.000	1178.000	1144.000	1132.000
175.0	1401.000	1392.000	1366.000	1332.000	1293.000	1255.000	1225.000	1204.000	1196.000
177.5	1351.000	1347.000	1334.000	1318.000	1299.000	1280.000	1265.000	1254.000	1250.000
180.0	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-P-D-4FT-V-B-835-ASY-DAO-ITL89988-ITL94331.605.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	288.05	N.A.	4.50
0-30	601.44	N.A.	9.40
0-40	963.81	N.A.	15.00
0-60	1621.64	N.A.	25.20
0-80	1962.58	N.A.	30.50
0-90	1998.75	N.A.	31.10
10-90	1923.43	N.A.	29.90
20-40	675.76	N.A.	10.50
20-50	1031.65	N.A.	16.00
40-70	875.58	N.A.	13.60
60-80	340.94	N.A.	5.30
70-80	123.20	N.A.	1.90
80-90	36.17	N.A.	0.60
90-110	577.50	N.A.	9.00
90-120	1269.82	N.A.	19.70
90-130	2066.11	N.A.	32.10
90-150	3450.76	N.A.	53.70
90-180	4431.02	N.A.	68.90
110-180	3853.51	N.A.	59.90
0-180	6429.77	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	145.76
100-110	431.74
110-120	692.31
120-130	796.29
130-140	743.40
140-150	641.26
150-160	512.67
160-170	344.80
170-180	122.79

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

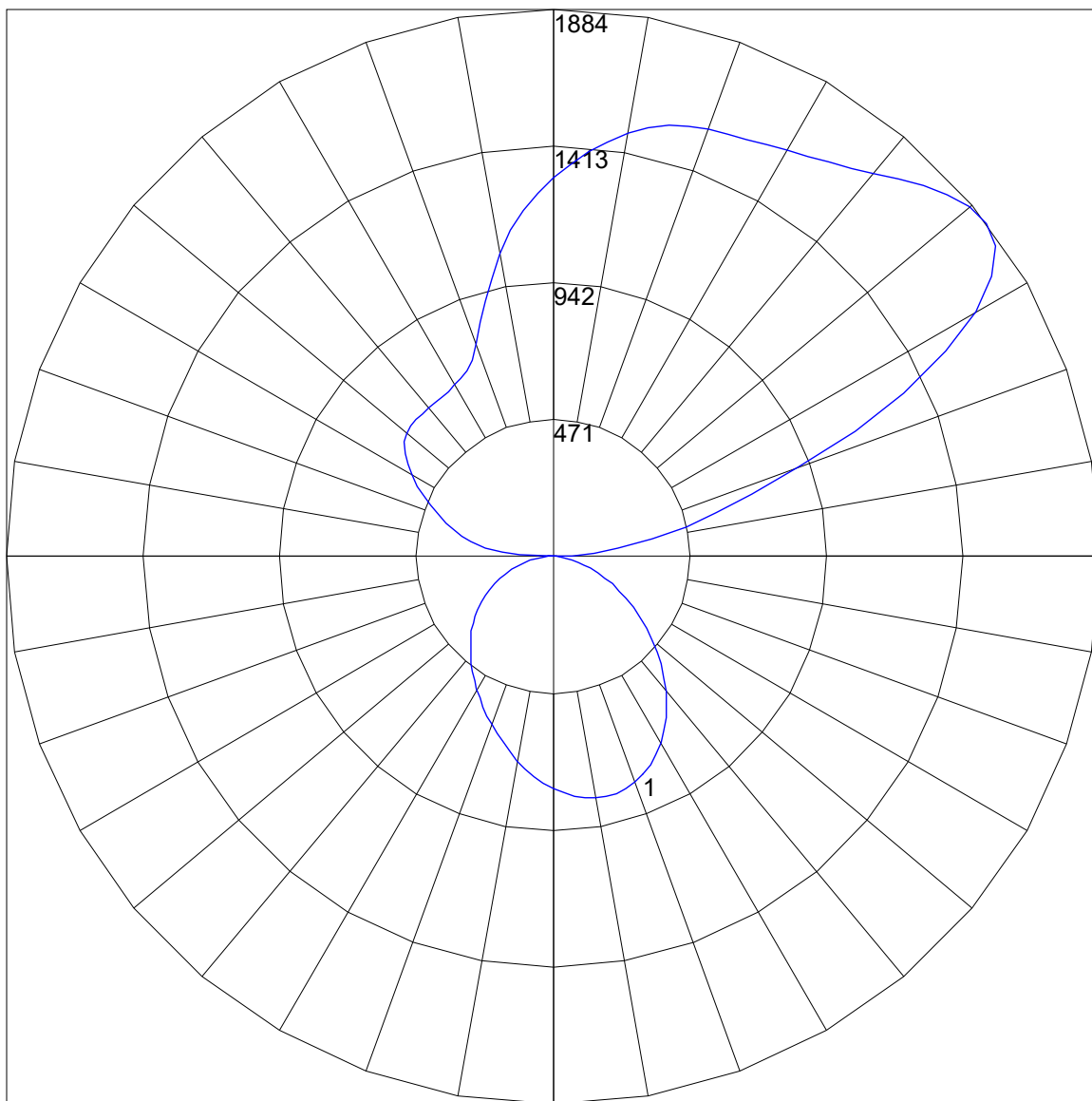
Effective Floor Cavity Reflectance 0.20

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	80	77	74	64	62	60	48	47	46	34	33	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

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POLAR GRAPH



Maximum Candela = 1884 Located At Horizontal Angle = 0, Vertical Angle = 127.5

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