

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-S-835-ASY-DAO-ITL89988-ITL94331.606.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL94331.606 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-S-835-ASY-DAO

[_INPUT_ELECTRICAL]120.0 VOLTS, 51.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 53.9 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]6026

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6021
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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)	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	4834	4990	4136
55	4152	4438	3678
65	3476	3778	3206
75	2799	3097	2773
85	2194	2386	2424

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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	647.626	644.351	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	566.162	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	618.971	588.268	552.243	529.318	515.809	508.849
20.0	657.451	656.223	641.077	606.689	574.349	533.821	510.077	496.159	490.018
22.5	645.170	643.942	630.024	593.999	559.611	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	566.162	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	217.376	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	209.599	187.902	174.393	179.714	190.767	197.317
65.0	179.305	185.036	194.861	184.217	165.386	155.971	160.065	172.346	178.486
67.5	153.105	158.018	168.252	160.474	144.099	136.730	142.462	153.924	158.018
70.0	130.999	134.683	143.690	137.140	124.859	118.308	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	97.430	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	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

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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-S-835-ASY-DAO-ITL89988-ITL94331.606.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	229.11	N.A.	3.80
0-30	478.38	N.A.	7.90
0-40	766.61	N.A.	12.70
0-60	1289.85	N.A.	21.40
0-80	1561.03	N.A.	25.90
0-90	1589.8	N.A.	26.40
10-90	1529.89	N.A.	25.40
20-40	537.49	N.A.	8.90
20-50	820.57	N.A.	13.60
40-70	696.43	N.A.	11.60
60-80	271.18	N.A.	4.50
70-80	97.99	N.A.	1.60
80-90	28.77	N.A.	0.50
90-110	577.50	N.A.	9.60
90-120	1269.82	N.A.	21.10
90-130	2066.11	N.A.	34.30
90-150	3450.76	N.A.	57.30
90-180	4431.02	N.A.	73.60
110-180	3853.51	N.A.	64.00
0-180	6020.82	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	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

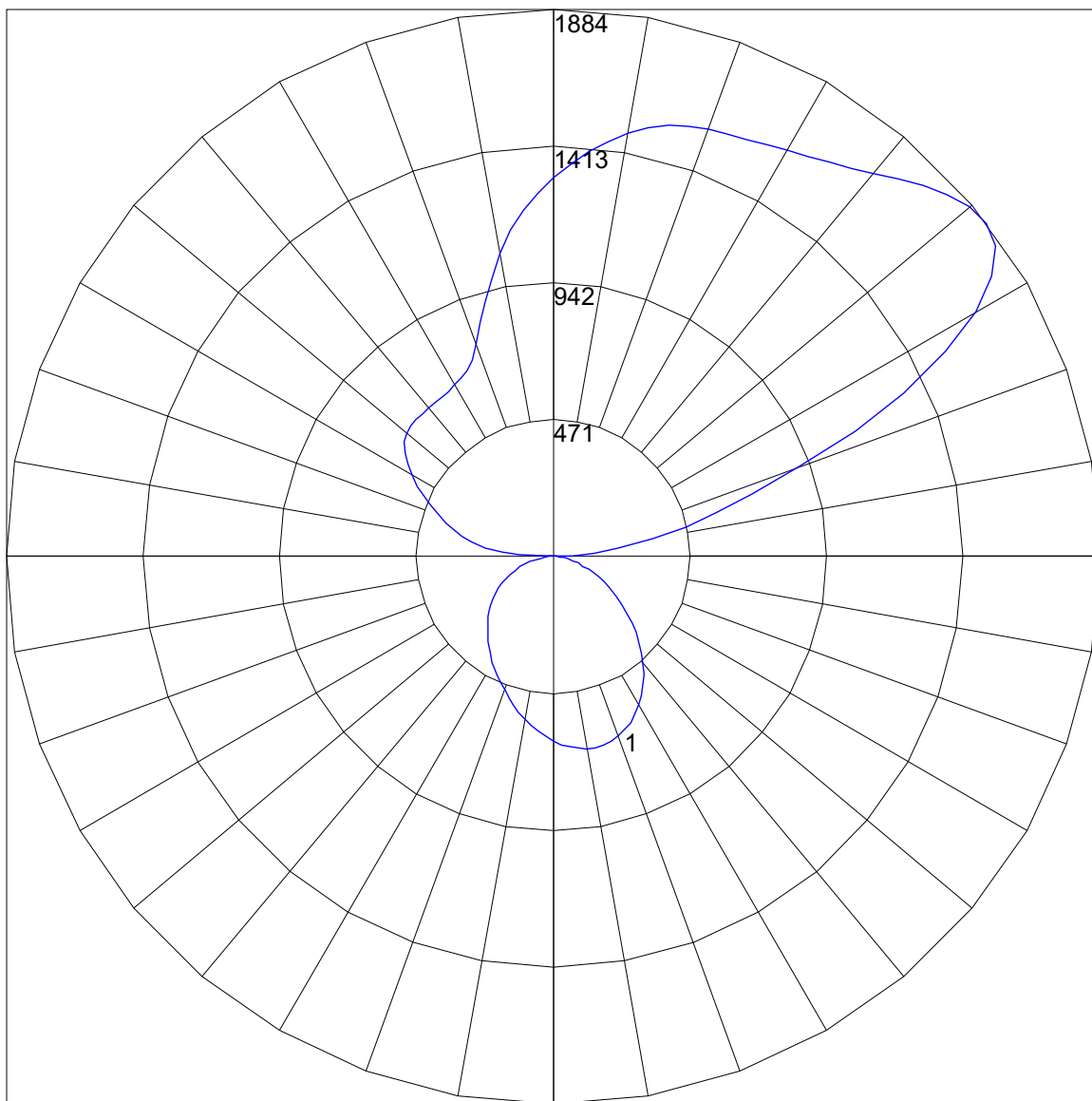
Effective Floor Cavity Reflectance 0.20

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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	34	34	34	26
1	93	88	85	81	82	79	76	73	61	59	58	45	44	43	30	30	29	22
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	55	68	61	55	50	47	43	40	35	33	30	24	22	21	16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	14
5	64	53	46	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	20	17	15	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	12	9
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	12	11	8
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	14	12	12	10	9	7

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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.)