

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-B-V-8TW-F-DAO-ITL85125-ITL94331.910.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.910 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/06/15

[ISSUEDATE]08/26/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-4ft-B-V-8TW-F-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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 61.2 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 63.4 WATTS

[ABSOLUTE LUMENS]6035

[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	6035
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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)	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	11998	12386	10267
55	10306	11017	9130
65	8629	9377	7959
75	6948	7688	6884
85	5445	5923	6018

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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	15.438	16.467	17.496	19.555	20.069	19.555	17.496	16.467	15.438
95.0	36.536	37.051	39.109	41.682	42.197	41.682	39.109	37.051	36.536
97.5	59.178	59.693	62.266	64.839	64.324	64.839	62.266	59.693	59.178
100.0	82.335	83.364	85.937	88.510	87.995	88.510	85.937	83.364	82.335
102.5	106.006	108.064	110.638	113.210	113.210	113.210	110.638	108.064	106.006
105.0	132.250	134.309	136.882	138.940	138.425	138.940	136.882	134.309	132.250
107.5	160.038	161.582	163.126	165.184	165.184	165.184	163.126	161.582	160.038
110.0	189.885	189.885	191.429	193.487	192.972	193.487	191.429	189.885	189.885
112.5	219.731	218.702	220.760	223.848	221.275	223.848	220.760	218.702	219.731
115.0	249.578	248.548	249.578	252.151	250.092	252.151	249.578	248.548	249.578
117.5	279.424	279.939	280.453	280.968	279.424	280.968	280.453	279.939	279.424
120.0	309.785	310.814	310.300	309.785	308.756	309.785	310.300	310.814	309.785
122.5	340.661	341.690	341.690	340.146	338.602	340.146	341.690	341.690	340.661
125.0	372.051	373.594	373.594	370.507	368.963	370.507	373.594	373.594	372.051
127.5	403.441	404.470	405.499	400.868	397.780	400.868	405.499	404.470	403.441
130.0	433.802	434.317	435.346	432.258	429.685	432.258	435.346	434.317	433.802
132.5	464.678	464.163	464.678	462.619	459.532	462.619	464.678	464.163	464.678

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-V-8TW-F-DAO-ITL85125-ITL94331.910.IES****CANDELA TABULATION - (Cont.)**

135.0	495.553	492.980	494.524	492.980	489.378	492.980	494.524	492.980	495.553
137.5	525.399	521.283	523.856	521.797	518.195	521.797	523.856	521.283	525.399
140.0	555.246	550.615	553.702	551.644	547.527	551.644	553.702	550.615	555.246
142.5	582.519	578.917	582.519	579.432	575.830	579.432	582.519	578.917	582.519
145.0	611.851	605.676	609.793	606.705	603.103	606.705	609.793	605.676	611.851
147.5	638.095	631.920	636.037	632.949	629.347	632.949	636.037	631.920	638.095
150.0	663.825	657.135	661.252	658.164	655.077	658.164	661.252	657.135	663.825
152.5	686.467	681.321	685.438	681.836	679.263	681.836	685.438	681.321	686.467
155.0	708.595	703.449	707.051	703.963	701.390	703.963	707.051	703.449	708.595
157.5	730.207	725.062	728.149	725.062	723.003	725.062	728.149	725.062	730.207
160.0	748.733	744.616	747.704	744.616	743.072	744.616	747.704	744.616	748.733
162.5	766.229	761.598	765.200	762.112	761.083	762.112	765.200	761.598	766.229
165.0	780.638	777.035	779.094	777.550	777.035	777.550	779.094	777.035	780.638
167.5	793.502	790.415	791.959	790.929	790.929	790.929	791.959	790.415	793.502
170.0	804.309	802.250	803.280	802.250	802.250	802.250	803.280	802.250	804.309
172.5	812.028	812.028	811.513	811.513	811.513	811.513	811.513	812.028	812.028
175.0	818.203	818.203	818.203	817.688	818.203	817.688	818.203	818.203	818.203
177.5	821.805	822.320	822.320	822.320	822.320	822.320	822.320	822.320	821.805
180.0	823.349	823.349	823.349	823.349	823.349	823.349	823.349	823.349	823.349

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-B-V-8TW-F-DAO-ITL85125-ITL94331.910.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.67	N.A.	9.30
0-30	1168.58	N.A.	19.40
0-40	1872.64	N.A.	31.00
0-60	3150.8	N.A.	52.20
0-80	3813.23	N.A.	63.20
0-90	3883.51	N.A.	64.40
10-90	3737.17	N.A.	61.90
20-40	1312.97	N.A.	21.80
20-50	2004.47	N.A.	33.20
40-70	1701.22	N.A.	28.20
60-80	662.43	N.A.	11.00
70-80	239.36	N.A.	4.00
80-90	70.28	N.A.	1.20
90-110	188.77	N.A.	3.10
90-120	436.67	N.A.	7.20
90-130	769.23	N.A.	12.70
90-150	1529.44	N.A.	25.30
90-180	2151.12	N.A.	35.60
110-180	1962.35	N.A.	32.50
0-180	6034.63	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	44.11
100-110	144.66
110-120	247.90
120-130	332.56
130-140	380.45
140-150	379.77
150-160	324.72
160-170	219.35
170-180	77.61

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

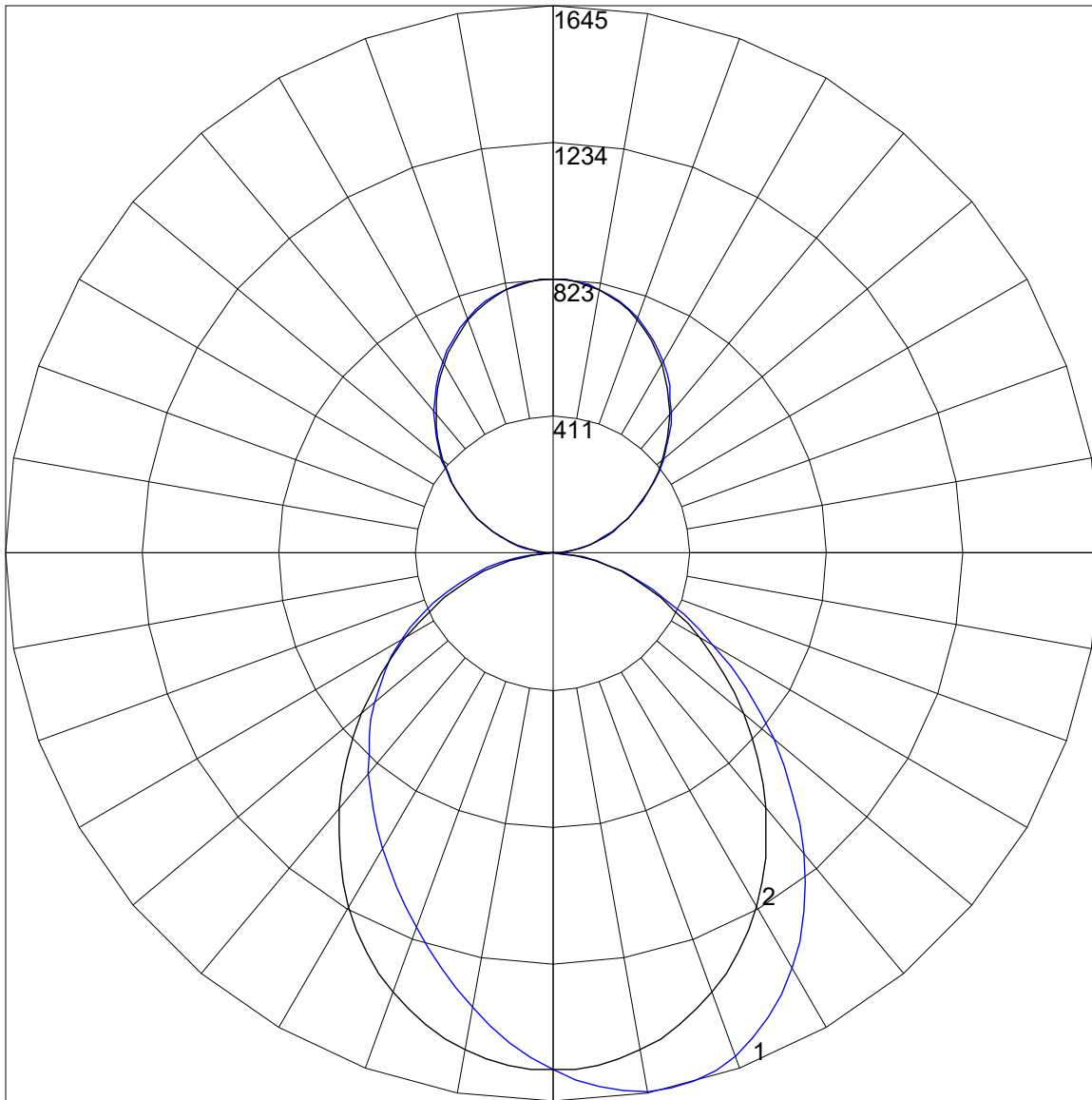
Effective Floor Cavity Reflectance 0.20

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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	101	97	93	89	95	91	88	84	80	78	75	70	69	67	61	60	59	54
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46
3	84	74	67	61	79	70	64	58	62	57	53	55	51	47	48	45	42	39
4	77	66	58	52	72	62	55	50	55	50	45	49	45	41	43	40	37	33
5	71	59	51	45	66	56	48	43	50	44	39	44	39	36	39	35	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26
7	61	48	40	34	57	46	38	33	41	35	30	36	31	28	32	28	25	23
8	56	44	36	30	53	42	34	29	37	31	27	33	28	25	30	26	23	20
9	53	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18
10	49	37	29	25	46	35	28	24	32	26	22	29	24	20	26	22	19	17

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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)