

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-S-V-835-F-DAO-ITL85125-ITL94331.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125-ITL94331.013 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/06/15

[ISSUEDATE]08/26/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-4ft-S-V-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 51.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.9 WATTS

[ABSOLUTE LUMENS]5595

[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	5595
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	51.6
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	12.280	13.099	13.917	15.555	15.964	15.555	13.917	13.099	12.280
95.0	29.062	29.472	31.109	33.156	33.565	33.156	31.109	29.472	29.062
97.5	47.073	47.482	49.529	51.576	51.166	51.576	49.529	47.482	47.073
100.0	65.493	66.311	68.358	70.405	69.995	70.405	68.358	66.311	65.493
102.5	84.322	85.959	88.006	90.053	90.053	90.053	88.006	85.959	84.322
105.0	105.198	106.835	108.882	110.519	110.110	110.519	108.882	106.835	105.198
107.5	127.302	128.530	129.758	131.395	131.395	131.395	129.758	128.530	127.302
110.0	151.043	151.043	152.271	153.908	153.499	153.908	152.271	151.043	151.043
112.5	174.784	173.965	175.603	178.059	176.012	178.059	175.603	173.965	174.784
115.0	198.525	197.706	198.525	200.572	198.934	200.572	198.525	197.706	198.525
117.5	222.266	222.676	223.085	223.494	222.266	223.494	223.085	222.676	222.266
120.0	246.417	247.235	246.826	246.417	245.598	246.417	246.826	247.235	246.417
122.5	270.976	271.795	271.795	270.567	269.339	270.567	271.795	271.795	270.976
125.0	295.946	297.174	297.174	294.718	293.490	294.718	297.174	297.174	295.946
127.5	320.915	321.733	322.552	318.868	316.412	318.868	322.552	321.733	320.915
130.0	345.065	345.475	346.293	343.837	341.791	343.837	346.293	345.475	345.065
132.5	369.625	369.216	369.625	367.988	365.532	367.988	369.625	369.216	369.625

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-S-V-835-F-DAO-ITL85125-ITL94331.013.IES****CANDELA TABULATION - (Cont.)**

135.0	394.185	392.138	393.366	392.138	389.273	392.138	393.366	392.138	394.185
137.5	417.926	414.651	416.698	415.061	412.195	415.061	416.698	414.651	417.926
140.0	441.667	437.983	440.439	438.802	435.527	438.802	440.439	437.983	441.667
142.5	463.362	460.496	463.362	460.906	458.040	460.906	463.362	460.496	463.362
145.0	486.693	481.781	485.056	482.600	479.735	482.600	485.056	481.781	486.693
147.5	507.569	502.657	505.932	503.476	500.611	503.476	505.932	502.657	507.569
150.0	528.036	522.714	525.989	523.533	521.077	523.533	525.989	522.714	528.036
152.5	546.046	541.953	545.228	542.362	540.316	542.362	545.228	541.953	546.046
155.0	563.647	559.554	562.419	559.963	557.917	559.963	562.419	559.554	563.647
157.5	580.839	576.746	579.202	576.746	575.109	576.746	579.202	576.746	580.839
160.0	595.575	592.301	594.756	592.301	591.073	592.301	594.756	592.301	595.575
162.5	609.492	605.808	608.674	606.218	605.399	606.218	608.674	605.808	609.492
165.0	620.954	618.088	619.726	618.498	618.088	618.498	619.726	618.088	620.954
167.5	631.187	628.731	629.959	629.140	629.140	629.140	629.959	628.731	631.187
170.0	639.783	638.145	638.964	638.145	638.145	638.145	638.964	638.145	639.783
172.5	645.923	645.923	645.513	645.513	645.513	645.513	645.513	645.923	645.923
175.0	650.835	650.835	650.835	650.425	650.835	650.425	650.835	650.835	650.835
177.5	653.700	654.109	654.109	654.109	654.109	654.109	654.109	654.109	653.700
180.0	654.928	654.928	654.928	654.928	654.928	654.928	654.928	654.928	654.928

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-S-V-835-F-DAO-ITL85125-ITL94331.013.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.67	N.A.	10.00
0-30	1168.58	N.A.	20.90
0-40	1872.64	N.A.	33.50
0-60	3150.8	N.A.	56.30
0-80	3813.23	N.A.	68.20
0-90	3883.51	N.A.	69.40
10-90	3737.17	N.A.	66.80
20-40	1312.97	N.A.	23.50
20-50	2004.47	N.A.	35.80
40-70	1701.22	N.A.	30.40
60-80	662.43	N.A.	11.80
70-80	239.36	N.A.	4.30
80-90	70.28	N.A.	1.30
90-110	150.16	N.A.	2.70
90-120	347.35	N.A.	6.20
90-130	611.88	N.A.	10.90
90-150	1216.58	N.A.	21.70
90-180	1711.1	N.A.	30.60
110-180	1560.94	N.A.	27.90
0-180	5594.61	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	35.09
100-110	115.07
110-120	197.19
120-130	264.53
130-140	302.62
140-150	302.09
150-160	258.30
160-170	174.48
170-180	61.73

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

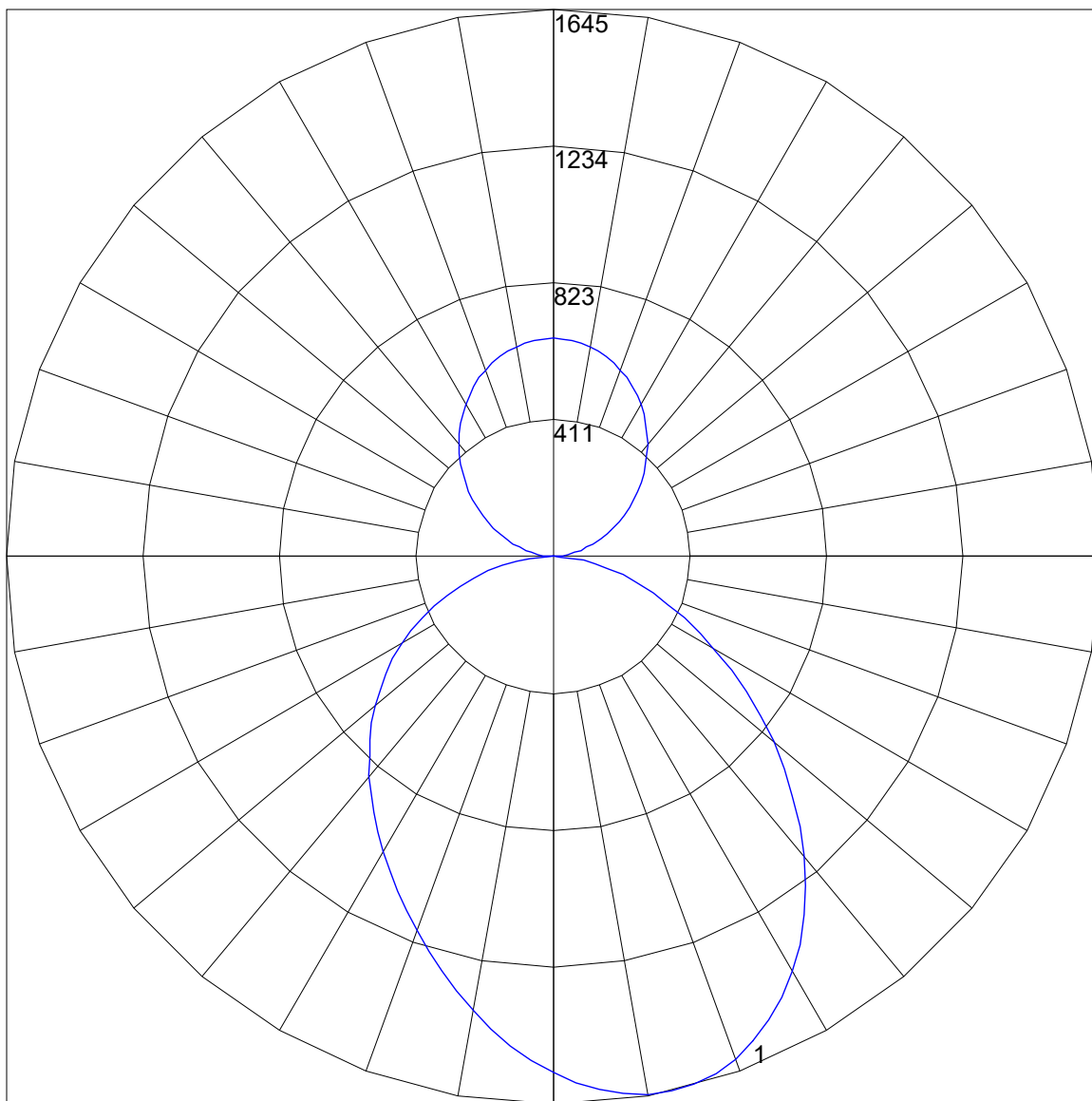
Effective Floor Cavity Reflectance 0.20

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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69
1	102	98	94	90	96	93	89	86	83	80	78	74	72	70	66	64	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	55	53	49
3	85	75	68	62	80	72	65	59	64	59	54	58	53	50	51	48	45	42
4	78	67	59	53	73	64	56	51	57	51	47	51	47	43	46	42	39	36
5	72	60	51	45	68	57	49	44	51	45	40	46	41	37	42	37	34	31
6	66	54	45	39	62	51	44	38	46	40	35	42	37	33	38	34	30	28
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	35	30	27	25
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	41	33	28	50	39	32	27	36	29	25	32	27	24	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

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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.)