

# 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-RG-4FT-B-V-8TW-TG-RG-WCB-ITL85125-ITL90672.912.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.912 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/06/15

[ISSUEDATE]02/01/19

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-RG-4ft-B-V-8TW-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 61.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 63.3 WATTS

[ABSOLUTE]LUMENS]5152

[OTHER]see [www.finelite.com](http://www.finelite.com) for source files ITL85125 and ITL90672. 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](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	5152
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	61
Ballast Factor	1.00
CIE Type	General Diffuse
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)	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	5781	7441	10220
55	4819	5516	8869
65	4137	4570	7013
75	3571	3796	4825
85	2866	2866	3248

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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>
0.0	1636.000	1636.000	1636.000	1636.000	1636.000
2.5	1626.000	1627.000	1630.000	1634.000	1634.000
5.0	1597.000	1601.000	1611.000	1623.000	1627.000
7.5	1555.000	1563.000	1583.000	1606.000	1615.000
10.0	1504.000	1514.000	1545.000	1583.000	1597.000
12.5	1445.000	1456.000	1500.000	1549.000	1570.000
15.0	1385.000	1397.000	1449.000	1505.000	1533.000
17.5	1320.000	1331.000	1390.000	1458.000	1493.000
20.0	1249.000	1262.000	1327.000	1404.000	1447.000
22.5	1175.000	1192.000	1261.000	1348.000	1399.000
25.0	1102.000	1121.000	1193.000	1286.000	1347.000
27.5	1027.000	1048.000	1123.000	1223.000	1291.000
30.0	953.000	971.000	1053.000	1159.000	1236.000
32.5	875.000	899.000	981.000	1094.000	1179.000
35.0	796.000	822.000	911.000	1028.000	1116.000
37.5	720.000	747.000	839.000	961.000	1055.000
40.0	644.000	673.000	771.000	897.000	993.000
42.5	565.000	600.000	701.000	832.000	931.000
45.0	491.000	526.000	632.000	765.000	868.000
47.5	440.000	458.000	567.000	701.000	803.000
50.0	402.000	410.000	502.000	638.000	738.000
52.5	368.000	373.000	438.000	574.000	674.000
55.0	332.000	339.000	380.000	514.000	611.000
57.5	301.000	306.000	335.000	454.000	546.000
60.0	270.000	273.000	299.000	397.000	484.000
62.5	240.000	242.000	264.000	342.000	420.000
65.0	210.000	214.000	232.000	290.000	356.000
67.5	184.000	187.000	200.000	240.000	297.000
70.0	159.000	160.000	170.000	199.000	239.000
72.5	135.000	136.000	143.000	163.000	180.000
75.0	111.000	112.000	118.000	131.000	150.000
77.5	89.000	90.000	93.000	103.000	119.000
80.0	69.000	69.000	70.000	77.000	87.000
82.5	49.000	48.000	50.000	53.000	58.000
85.0	30.000	30.000	30.000	31.000	34.000
87.5	12.000	12.000	11.000	12.000	12.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	15.438	16.467	17.496	19.555	20.069
95.0	36.536	37.051	39.109	41.682	42.197
97.5	59.178	59.693	62.266	64.839	64.324
100.0	82.335	83.364	85.937	88.510	87.995
102.5	106.006	108.064	110.638	113.210	113.210
105.0	132.250	134.309	136.882	138.940	138.425
107.5	160.038	161.582	163.126	165.184	165.184
110.0	189.885	189.885	191.429	193.487	192.972
112.5	219.731	218.702	220.760	223.848	221.275
115.0	249.578	248.548	249.578	252.151	250.092
117.5	279.424	279.939	280.453	280.968	279.424
120.0	309.785	310.814	310.300	309.785	308.756
122.5	340.661	341.690	341.690	340.146	338.602
125.0	372.051	373.594	373.594	370.507	368.963
127.5	403.441	404.470	405.499	400.868	397.780
130.0	433.802	434.317	435.346	432.258	429.685
132.5	464.678	464.163	464.678	462.619	459.532

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-V-8TW-TG-RG-WCB-ITL85125-ITL90672.912.IES****CANDELA TABULATION - (Cont.)**

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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-V-8TW-TG-RG-WCB-ITL85125-ITL90672.912.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.34	N.A.	10.90
0-30	1113.33	N.A.	21.60
0-40	1693.76	N.A.	32.90
0-60	2580.91	N.A.	50.10
0-80	2965.68	N.A.	57.60
0-90	3001.14	N.A.	58.20
10-90	2849.3	N.A.	55.30
20-40	1134.42	N.A.	22.00
20-50	1638.46	N.A.	31.80
40-70	1140.62	N.A.	22.10
60-80	384.77	N.A.	7.50
70-80	131.30	N.A.	2.50
80-90	35.46	N.A.	0.70
90-110	188.77	N.A.	3.70
90-120	436.67	N.A.	8.50
90-130	769.23	N.A.	14.90
90-150	1529.44	N.A.	29.70
90-180	2151.12	N.A.	41.80
110-180	1962.35	N.A.	38.10
0-180	5152.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	151.83
10-20	407.50
20-30	553.99
30-40	580.43
40-50	504.04
50-60	383.11
60-70	253.47
70-80	131.30
80-90	35.46
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

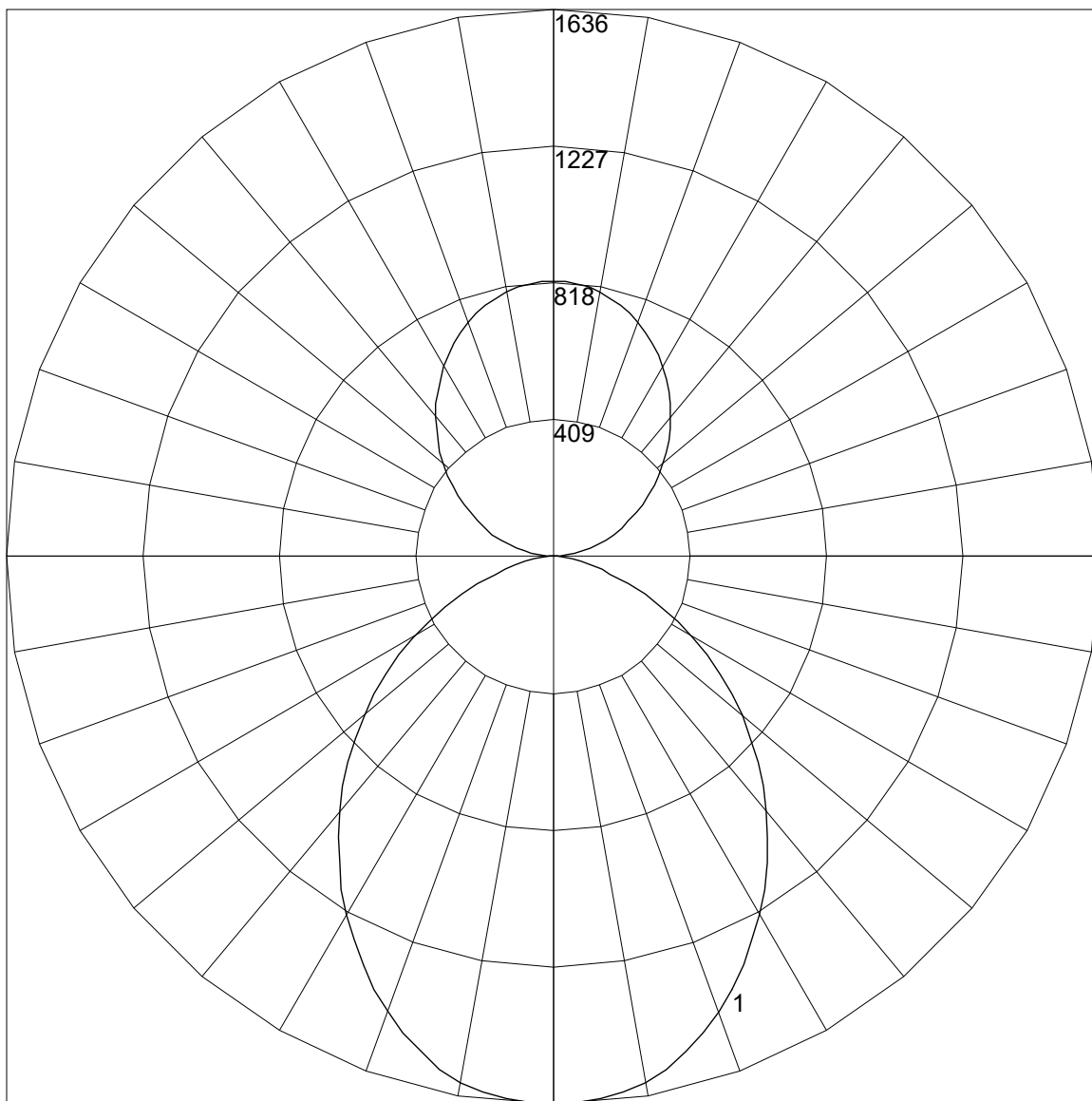
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58
1	100	96	93	89	93	90	87	84	78	76	74	67	66	64	57	56	55	50
2	92	85	79	74	86	80	74	70	69	66	62	60	57	55	51	49	48	43
3	84	75	68	63	79	71	64	59	62	57	53	54	50	47	46	44	41	38
4	78	67	60	54	72	63	56	51	56	50	46	48	44	41	42	39	36	33
5	72	60	53	47	67	57	50	45	50	45	40	44	40	36	38	35	32	29
6	66	55	47	41	62	51	44	39	46	40	36	40	36	32	35	32	29	26
7	62	50	42	36	57	47	40	35	42	36	32	37	32	29	32	29	26	24
8	57	45	38	33	54	43	36	31	38	33	29	34	29	26	30	26	24	21
9	54	42	34	29	50	39	33	28	35	30	26	31	27	24	28	24	21	19
10	50	38	31	27	47	36	30	26	33	27	24	29	25	22	26	22	20	18

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**POLAR GRAPH**



Maximum Candela = 1636 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)