

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-S-V-835-TG-RG-WCB-ITL85125-ITL90672.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.015 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-S-V-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 51.6 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 53.8 WATTS

[ABSOLUTE]LUMENS]4712

[OTHER]see 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4712
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	51.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.94
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.10
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	12.280	13.099	13.917	15.555	15.964
95.0	29.062	29.472	31.109	33.156	33.565
97.5	47.073	47.482	49.529	51.576	51.166
100.0	65.493	66.311	68.358	70.405	69.995
102.5	84.322	85.959	88.006	90.053	90.053
105.0	105.198	106.835	108.882	110.519	110.110
107.5	127.302	128.530	129.758	131.395	131.395
110.0	151.043	151.043	152.271	153.908	153.499
112.5	174.784	173.965	175.603	178.059	176.012
115.0	198.525	197.706	198.525	200.572	198.934
117.5	222.266	222.675	223.085	223.494	222.266
120.0	246.417	247.235	246.826	246.417	245.598
122.5	270.976	271.795	271.795	270.567	269.339
125.0	295.946	297.174	297.174	294.718	293.490
127.5	320.915	321.733	322.552	318.868	316.412
130.0	345.065	345.474	346.293	343.837	341.791
132.5	369.625	369.216	369.625	367.988	365.532

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-S-V-835-TG-RG-WCB-ITL85125-ITL90672.015.IES****CANDELA TABULATION - (Cont.)**

135.0	394.185	392.138	393.366	392.138	389.273
137.5	417.926	414.651	416.698	415.061	412.195
140.0	441.667	437.983	440.439	438.802	435.527
142.5	463.362	460.496	463.362	460.906	458.040
145.0	486.693	481.781	485.056	482.600	479.735
147.5	507.569	502.657	505.932	503.476	500.611
150.0	528.036	522.714	525.989	523.533	521.077
152.5	546.046	541.953	545.227	542.362	540.316
155.0	563.647	559.554	562.419	559.963	557.917
157.5	580.839	576.746	579.202	576.746	575.109
160.0	595.575	592.301	594.756	592.301	591.072
162.5	609.492	605.808	608.674	606.218	605.399
165.0	620.954	618.088	619.726	618.498	618.088
167.5	631.187	628.731	629.959	629.140	629.140
170.0	639.783	638.145	638.964	638.145	638.145
172.5	645.923	645.923	645.513	645.513	645.513
175.0	650.835	650.835	650.835	650.425	650.835
177.5	653.700	654.109	654.109	654.109	654.109
180.0	654.928	654.928	654.928	654.928	654.928

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-S-V-835-TG-RG-WCB-ITL85125-ITL90672.015.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	559.34	N.A.	11.90
0-30	1113.33	N.A.	23.60
0-40	1693.76	N.A.	35.90
0-60	2580.91	N.A.	54.80
0-80	2965.68	N.A.	62.90
0-90	3001.14	N.A.	63.70
10-90	2849.3	N.A.	60.50
20-40	1134.42	N.A.	24.10
20-50	1638.46	N.A.	34.80
40-70	1140.62	N.A.	24.20
60-80	384.77	N.A.	8.20
70-80	131.30	N.A.	2.80
80-90	35.46	N.A.	0.80
90-110	150.16	N.A.	3.20
90-120	347.35	N.A.	7.40
90-130	611.88	N.A.	13.00
90-150	1216.58	N.A.	25.80
90-180	1711.1	N.A.	36.30
110-180	1560.94	N.A.	33.10
0-180	4712.23	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	35.09
100-110	115.07
110-120	197.19
120-130	264.53
130-140	302.62
140-150	302.09
150-160	258.29
160-170	174.48
170-180	61.73

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

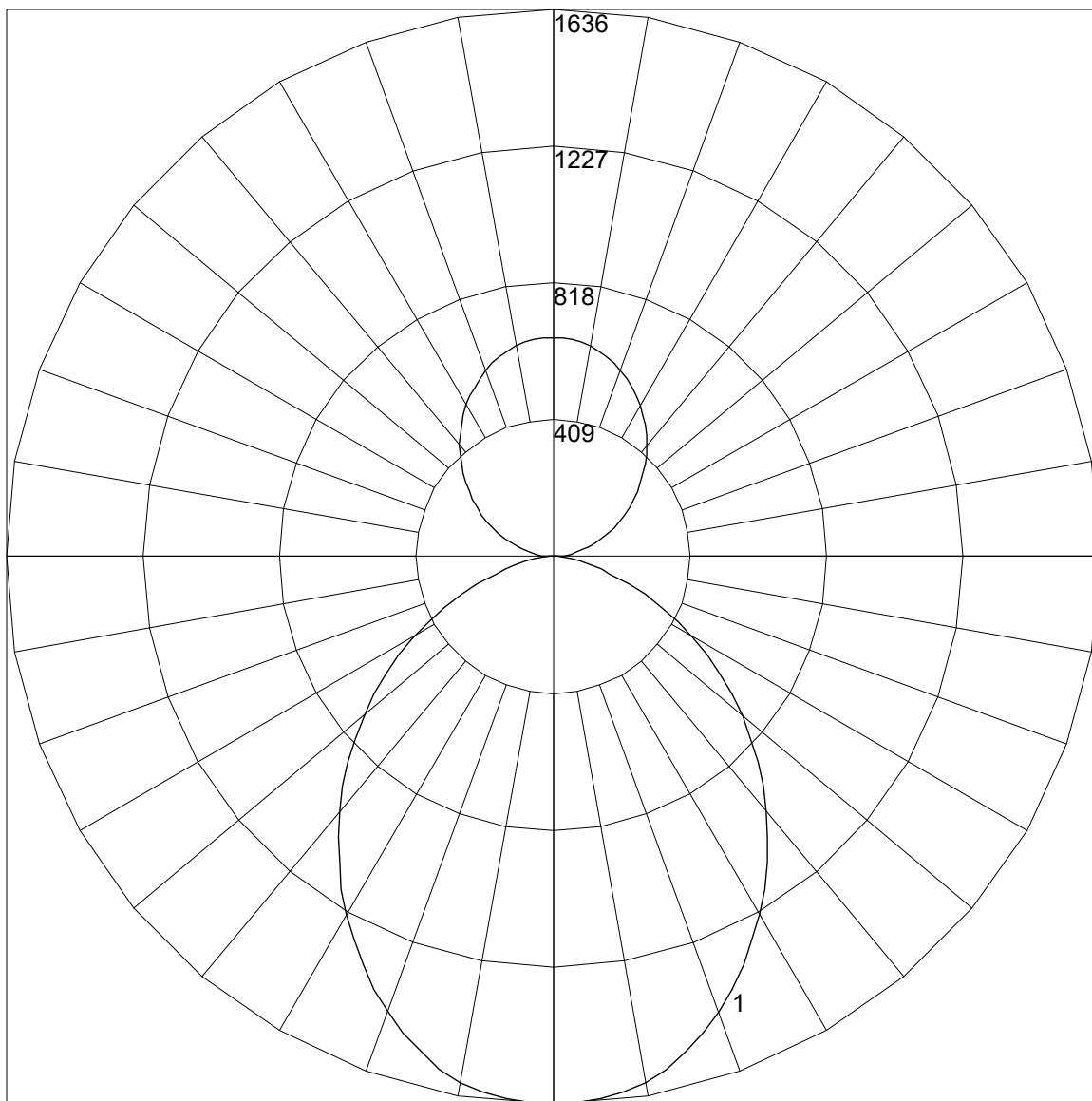
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64
1	102	97	94	90	95	92	89	86	81	79	76	71	69	68	62	61	60	55
2	93	86	80	75	87	81	76	72	72	68	65	63	60	58	55	53	51	48
3	86	76	69	64	80	72	66	61	64	59	55	57	53	50	50	47	45	41
4	79	68	61	55	74	65	58	52	58	52	48	51	47	44	45	42	39	36
5	73	61	54	48	68	58	51	46	52	46	42	46	42	38	41	38	35	32
6	67	56	48	42	63	53	46	40	47	42	37	42	38	34	38	34	31	29
7	63	51	43	37	59	48	41	36	43	38	33	39	34	31	35	31	28	26
8	58	46	39	33	55	44	37	32	40	34	30	36	31	28	32	28	25	23
9	55	43	35	30	51	41	34	29	37	31	27	33	29	25	30	26	23	21
10	51	39	32	27	48	37	31	27	34	29	25	31	26	23	28	24	21	20

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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)