

# 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-V-B-835-TG-RG-WCB-ITL85125-ITL90672.005.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.005 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-V-B-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 55.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 57.6 WATTS

[ABSOLUTE]LUMENS]5725

[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	5725
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	55.5
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)	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	2975	3829	5259
55	2480	2838	4564
65	2129	2352	3609
75	1837	1953	2483
85	1475	1475	1671

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	841.874	841.874	841.874	841.874	841.874
<b>2.5</b>	836.728	837.243	838.787	840.845	840.845
<b>5.0</b>	821.805	823.863	829.009	835.184	837.243
<b>7.5</b>	800.192	804.309	814.601	826.436	831.068
<b>10.0</b>	773.948	779.094	795.046	814.601	821.805
<b>12.5</b>	743.587	749.247	771.889	797.105	807.911
<b>15.0</b>	712.711	718.886	745.645	774.462	788.871
<b>17.5</b>	679.263	684.923	715.284	750.277	768.287
<b>20.0</b>	642.727	649.416	682.865	722.489	744.616
<b>22.5</b>	604.647	613.395	648.902	693.671	719.916
<b>25.0</b>	567.082	576.859	613.909	661.767	693.157
<b>27.5</b>	528.487	539.293	577.888	629.347	664.340
<b>30.0</b>	490.407	499.670	541.866	596.413	636.037
<b>32.5</b>	450.269	462.619	504.816	562.965	606.705
<b>35.0</b>	409.616	422.995	468.794	529.002	574.286
<b>37.5</b>	370.507	384.401	431.743	494.524	542.896
<b>40.0</b>	331.398	346.321	396.751	461.590	510.991
<b>42.5</b>	290.745	308.756	360.730	428.141	479.086
<b>45.0</b>	252.665	270.676	325.223	393.664	446.667
<b>47.5</b>	226.421	235.684	291.774	360.730	413.218
<b>50.0</b>	206.866	210.983	258.326	328.310	379.770
<b>52.5</b>	189.370	191.943	225.392	295.376	346.836
<b>55.0</b>	170.845	174.447	195.545	264.501	314.416
<b>57.5</b>	154.893	157.465	172.389	233.625	280.968
<b>60.0</b>	138.940	140.484	153.863	204.293	249.063
<b>62.5</b>	123.502	124.531	135.853	175.991	216.129
<b>65.0</b>	108.064	110.123	119.386	149.232	183.195
<b>67.5</b>	94.685	96.229	102.919	123.502	152.834
<b>70.0</b>	81.820	82.335	87.481	102.404	122.988
<b>72.5</b>	69.470	69.985	73.587	83.879	92.627
<b>75.0</b>	57.120	57.634	60.722	67.412	77.189
<b>77.5</b>	45.799	46.313	47.857	53.003	61.237
<b>80.0</b>	35.507	35.507	36.022	39.624	44.770
<b>82.5</b>	25.215	24.701	25.730	27.273	29.846
<b>85.0</b>	15.438	15.438	15.438	15.952	17.496
<b>87.5</b>	6.175	6.175	5.660	6.175	6.175
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	30.000	32.000	34.000	38.000	39.000
<b>95.0</b>	71.000	72.000	76.000	81.000	82.000
<b>97.5</b>	115.000	116.000	121.000	126.000	125.000
<b>100.0</b>	160.000	162.000	167.000	172.000	171.000
<b>102.5</b>	206.000	210.000	215.000	220.000	220.000
<b>105.0</b>	257.000	261.000	266.000	270.000	269.000
<b>107.5</b>	311.000	314.000	317.000	321.000	321.000
<b>110.0</b>	369.000	369.000	372.000	376.000	375.000
<b>112.5</b>	427.000	425.000	429.000	435.000	430.000
<b>115.0</b>	485.000	483.000	485.000	490.000	486.000
<b>117.5</b>	543.000	544.000	545.000	546.000	543.000
<b>120.0</b>	602.000	604.000	603.000	602.000	600.000
<b>122.5</b>	662.000	664.000	664.000	661.000	658.000
<b>125.0</b>	723.000	726.000	726.000	720.000	717.000
<b>127.5</b>	784.000	786.000	788.000	779.000	773.000
<b>130.0</b>	843.000	844.000	846.000	840.000	835.000
<b>132.5</b>	903.000	902.000	903.000	899.000	893.000

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<b>135.0</b>	963.000	958.000	961.000	958.000	951.000
<b>137.5</b>	1021.000	1013.000	1018.000	1014.000	1007.000
<b>140.0</b>	1079.000	1070.000	1076.000	1072.000	1064.000
<b>142.5</b>	1132.000	1125.000	1132.000	1126.000	1119.000
<b>145.0</b>	1189.000	1177.000	1185.000	1179.000	1172.000
<b>147.5</b>	1240.000	1228.000	1236.000	1230.000	1223.000
<b>150.0</b>	1290.000	1277.000	1285.000	1279.000	1273.000
<b>152.5</b>	1334.000	1324.000	1332.000	1325.000	1320.000
<b>155.0</b>	1377.000	1367.000	1374.000	1368.000	1363.000
<b>157.5</b>	1419.000	1409.000	1415.000	1409.000	1405.000
<b>160.0</b>	1455.000	1447.000	1453.000	1447.000	1444.000
<b>162.5</b>	1489.000	1480.000	1487.000	1481.000	1479.000
<b>165.0</b>	1517.000	1510.000	1514.000	1511.000	1510.000
<b>167.5</b>	1542.000	1536.000	1539.000	1537.000	1537.000
<b>170.0</b>	1563.000	1559.000	1561.000	1559.000	1559.000
<b>172.5</b>	1578.000	1578.000	1577.000	1577.000	1577.000
<b>175.0</b>	1590.000	1590.000	1590.000	1589.000	1590.000
<b>177.5</b>	1597.000	1598.000	1598.000	1598.000	1598.000
<b>180.0</b>	1600.000	1600.000	1600.000	1600.000	1600.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-V-B-835-TG-RG-WCB-ITL85125-ITL90672.005.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	287.83	N.A.	5.00
0-30	572.91	N.A.	10.00
0-40	871.60	N.A.	15.20
0-60	1328.12	N.A.	23.20
0-80	1526.12	N.A.	26.70
0-90	1544.36	N.A.	27.00
10-90	1466.23	N.A.	25.60
20-40	583.77	N.A.	10.20
20-50	843.14	N.A.	14.70
40-70	586.95	N.A.	10.30
60-80	198.00	N.A.	3.50
70-80	67.56	N.A.	1.20
80-90	18.25	N.A.	0.30
90-110	366.84	N.A.	6.40
90-120	848.57	N.A.	14.80
90-130	1494.82	N.A.	26.10
90-150	2972.13	N.A.	51.90
90-180	4180.24	N.A.	73.00
110-180	3813.4	N.A.	66.60
0-180	5724.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	78.13
10-20	209.70
20-30	285.08
30-40	298.69
40-50	259.37
50-60	197.15
60-70	130.44
70-80	67.56
80-90	18.25
90-100	85.72
100-110	281.12
110-120	481.73
120-130	646.25
130-140	739.31
140-150	738.00
150-160	631.02
160-170	426.27
170-180	150.82

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

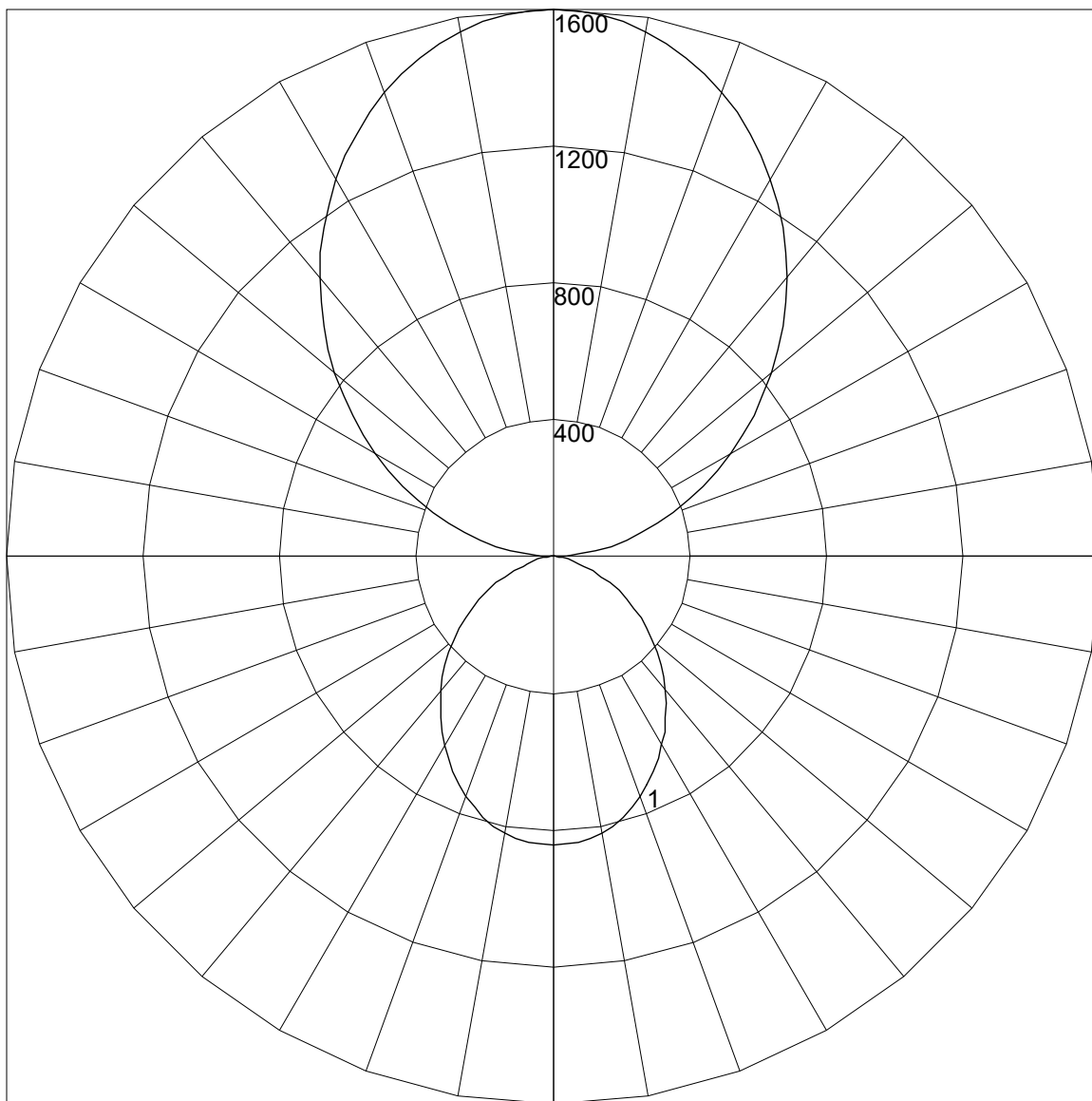
Effective Floor Cavity Reflectance 0.20

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	71	71	71	52	52	52	35	35	35	27
1	93	89	85	82	83	80	77	74	62	60	58	46	45	44	31	31	30	23
2	85	78	72	68	76	70	65	61	55	52	49	41	39	37	28	27	26	20
3	78	69	62	57	69	62	56	51	49	45	41	36	34	32	25	24	22	17
4	71	61	54	48	63	55	49	44	43	39	35	33	30	27	23	21	20	15
5	65	54	47	41	58	49	43	38	39	34	31	29	26	24	21	19	17	14
6	60	49	41	36	54	44	38	33	35	30	27	27	23	21	19	17	15	12
7	56	44	37	31	50	40	33	29	32	27	24	24	21	19	17	15	14	11
8	52	40	33	28	46	36	30	25	29	24	21	22	19	17	16	14	12	10
9	48	36	29	25	43	33	27	23	27	22	19	20	17	15	15	13	11	9
10	45	33	27	22	40	30	24	20	24	20	17	19	16	14	14	12	10	8

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**POLAR GRAPH**



Maximum Candela = 1600 Located At Horizontal Angle = 0, Vertical Angle = 180

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