

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

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672 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-V-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 74.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 75.7 WATTS

[ABSOLUTE]LUMENS]7181

[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	7181
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	74.1
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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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1636	1636	1636	1636	1636
<b>2.5</b>	1626	1627	1630	1634	1634
<b>5.0</b>	1597	1601	1611	1623	1627
<b>7.5</b>	1555	1563	1583	1606	1615
<b>10.0</b>	1504	1514	1545	1583	1597
<b>12.5</b>	1445	1456	1500	1549	1570
<b>15.0</b>	1385	1397	1449	1505	1533
<b>17.5</b>	1320	1331	1390	1458	1493
<b>20.0</b>	1249	1262	1327	1404	1447
<b>22.5</b>	1175	1192	1261	1348	1399
<b>25.0</b>	1102	1121	1193	1286	1347
<b>27.5</b>	1027	1048	1123	1223	1291
<b>30.0</b>	953	971	1053	1159	1236
<b>32.5</b>	875	899	981	1094	1179
<b>35.0</b>	796	822	911	1028	1116
<b>37.5</b>	720	747	839	961	1055
<b>40.0</b>	644	673	771	897	993
<b>42.5</b>	565	600	701	832	931
<b>45.0</b>	491	526	632	765	868
<b>47.5</b>	440	458	567	701	803
<b>50.0</b>	402	410	502	638	738
<b>52.5</b>	368	373	438	574	674
<b>55.0</b>	332	339	380	514	611
<b>57.5</b>	301	306	335	454	546
<b>60.0</b>	270	273	299	397	484
<b>62.5</b>	240	242	264	342	420
<b>65.0</b>	210	214	232	290	356
<b>67.5</b>	184	187	200	240	297
<b>70.0</b>	159	160	170	199	239
<b>72.5</b>	135	136	143	163	180
<b>75.0</b>	111	112	118	131	150
<b>77.5</b>	89	90	93	103	119
<b>80.0</b>	69	69	70	77	87
<b>82.5</b>	49	48	50	53	58
<b>85.0</b>	30	30	30	31	34
<b>87.5</b>	12	12	11	12	12
<b>90.0</b>	0	0	0	0	0
<b>92.5</b>	30	32	34	38	39
<b>95.0</b>	71	72	76	81	82
<b>97.5</b>	115	116	121	126	125
<b>100.0</b>	160	162	167	172	171
<b>102.5</b>	206	210	215	220	220
<b>105.0</b>	257	261	266	270	269
<b>107.5</b>	311	314	317	321	321
<b>110.0</b>	369	369	372	376	375
<b>112.5</b>	427	425	429	435	430
<b>115.0</b>	485	483	485	490	486
<b>117.5</b>	543	544	545	546	543
<b>120.0</b>	602	604	603	602	600
<b>122.5</b>	662	664	664	661	658
<b>125.0</b>	723	726	726	720	717
<b>127.5</b>	784	786	788	779	773
<b>130.0</b>	843	844	846	840	835
<b>132.5</b>	903	902	903	899	893

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<b>135.0</b>	963	958	961	958	951
<b>137.5</b>	1021	1013	1018	1014	1007
<b>140.0</b>	1079	1070	1076	1072	1064
<b>142.5</b>	1132	1125	1132	1126	1119
<b>145.0</b>	1189	1177	1185	1179	1172
<b>147.5</b>	1240	1228	1236	1230	1223
<b>150.0</b>	1290	1277	1285	1279	1273
<b>152.5</b>	1334	1324	1332	1325	1320
<b>155.0</b>	1377	1367	1374	1368	1363
<b>157.5</b>	1419	1409	1415	1409	1405
<b>160.0</b>	1455	1447	1453	1447	1444
<b>162.5</b>	1489	1480	1487	1481	1479
<b>165.0</b>	1517	1510	1514	1511	1510
<b>167.5</b>	1542	1536	1539	1537	1537
<b>170.0</b>	1563	1559	1561	1559	1559
<b>172.5</b>	1578	1578	1577	1577	1577
<b>175.0</b>	1590	1590	1590	1589	1590
<b>177.5</b>	1597	1598	1598	1598	1598
<b>180.0</b>	1600	1600	1600	1600	1600

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

Zone	Lumens	%Lamp	%Fixt
0-20	559.34	N.A.	7.80
0-30	1113.33	N.A.	15.50
0-40	1693.76	N.A.	23.60
0-60	2580.91	N.A.	35.90
0-80	2965.68	N.A.	41.30
0-90	3001.14	N.A.	41.80
10-90	2849.3	N.A.	39.70
20-40	1134.42	N.A.	15.80
20-50	1638.46	N.A.	22.80
40-70	1140.62	N.A.	15.90
60-80	384.77	N.A.	5.40
70-80	131.30	N.A.	1.80
80-90	35.46	N.A.	0.50
90-110	366.84	N.A.	5.10
90-120	848.57	N.A.	11.80
90-130	1494.82	N.A.	20.80
90-150	2972.13	N.A.	41.40
90-180	4180.24	N.A.	58.20
110-180	3813.4	N.A.	53.10
0-180	7181.38	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	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

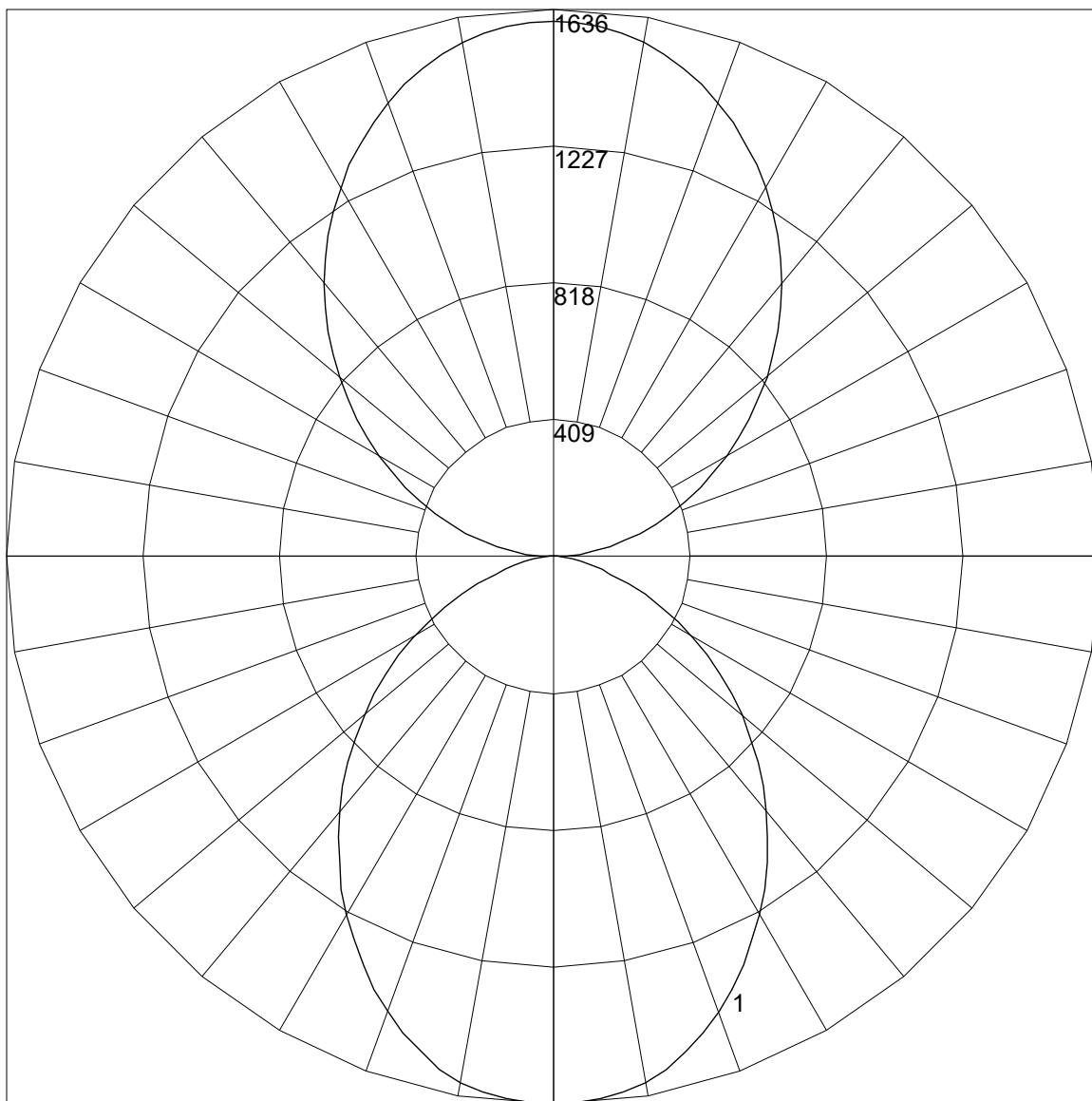
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	89	85	88	85	81	79	70	68	66	56	55	53	44	43	42	36
2	88	81	76	71	80	74	70	65	62	58	55	50	48	45	39	38	36	31
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	35	33	31	27
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	29	28	24
5	68	57	50	44	62	53	46	41	44	39	35	36	33	30	29	26	24	21
6	63	52	44	38	58	48	41	36	40	35	31	33	29	26	26	24	22	19
7	58	47	39	34	53	43	36	32	36	31	28	30	26	24	24	22	20	17
8	54	42	35	30	50	39	33	28	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	25	31	26	22	26	22	19	21	18	16	14
10	47	36	29	24	43	33	27	23	28	23	20	24	20	17	19	17	15	13

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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)