

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-H-835-TG-RG-WCB-ITL85125-ITL90672.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.006 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-H-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 65.5 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 67.1 WATTS

[ABSOLUTE]LUMENS]6514

[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	6514
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	65.5
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	4496	5787	7949
55	3748	4290	6898
65	3218	3555	5454
75	2777	2952	3753
85	2229	2229	2526

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-V-H-835-TG-RG-WCB-ITL85125-ITL90672.006.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1272.401	1272.401	1272.401	1272.401	1272.401
2.5	1264.623	1265.401	1267.734	1270.845	1270.845
5.0	1242.068	1245.179	1252.957	1262.290	1265.401
7.5	1209.403	1215.625	1231.180	1249.068	1256.068
10.0	1169.737	1177.515	1201.625	1231.180	1242.068
12.5	1123.850	1132.405	1166.627	1204.736	1221.069
15.0	1077.185	1086.518	1126.961	1170.515	1192.292
17.5	1026.631	1035.187	1081.074	1133.961	1161.182
20.0	971.411	981.522	1032.076	1091.962	1125.406
22.5	913.857	927.079	980.744	1048.408	1088.074
25.0	857.082	871.859	927.857	1000.188	1047.631
27.5	798.750	815.083	873.414	951.189	1004.077
30.0	741.197	755.196	818.972	901.413	961.300
32.5	680.532	699.198	762.974	850.860	916.968
35.0	619.090	639.311	708.531	799.528	867.970
37.5	559.981	580.980	652.533	747.419	820.527
40.0	500.872	523.427	599.646	697.643	772.307
42.5	439.429	466.651	545.203	647.089	724.086
45.0	381.876	409.097	491.539	594.980	675.088
47.5	342.210	356.210	440.985	545.203	624.534
50.0	312.656	318.878	390.431	496.205	573.980
52.5	286.212	290.101	340.655	446.429	524.204
55.0	258.213	263.658	295.545	399.764	475.206
57.5	234.103	237.992	260.547	353.099	424.652
60.0	209.993	212.326	232.548	308.767	376.432
62.5	186.660	188.216	205.326	265.991	326.655
65.0	163.328	166.439	180.438	225.548	276.879
67.5	143.106	145.439	155.550	186.660	230.992
70.0	123.662	124.440	132.218	154.772	185.882
72.5	104.996	105.774	111.218	126.773	139.995
75.0	86.330	87.108	91.775	101.885	116.663
77.5	69.220	69.998	72.331	80.108	92.552
80.0	53.665	53.665	54.443	59.887	67.664
82.5	38.110	37.332	38.888	41.221	45.110
85.0	23.332	23.332	23.332	24.110	26.444
87.5	9.333	9.333	8.555	9.333	9.333
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	32.000	34.000	38.000	39.000
95.0	71.000	72.000	76.000	81.000	82.000
97.5	115.000	116.000	121.000	126.000	125.000
100.0	160.000	162.000	167.000	172.000	171.000
102.5	206.000	210.000	215.000	220.000	220.000
105.0	257.000	261.000	266.000	270.000	269.000
107.5	311.000	314.000	317.000	321.000	321.000
110.0	369.000	369.000	372.000	376.000	375.000
112.5	427.000	425.000	429.000	435.000	430.000
115.0	485.000	483.000	485.000	490.000	486.000
117.5	543.000	544.000	545.000	546.000	543.000
120.0	602.000	604.000	603.000	602.000	600.000
122.5	662.000	664.000	664.000	661.000	658.000
125.0	723.000	726.000	726.000	720.000	717.000
127.5	784.000	786.000	788.000	779.000	773.000
130.0	843.000	844.000	846.000	840.000	835.000
132.5	903.000	902.000	903.000	899.000	893.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-V-H-835-TG-RG-WCB-ITL85125-ITL90672.006.IES****CANDELA TABULATION - (Cont.)**

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

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Zone	Lumens	%Lamp	%Fixt
0-20	435.03	N.A.	6.70
0-30	865.89	N.A.	13.30
0-40	1317.32	N.A.	20.20
0-60	2007.3	N.A.	30.80
0-80	2306.56	N.A.	35.40
0-90	2334.14	N.A.	35.80
10-90	2216.05	N.A.	34.00
20-40	882.30	N.A.	13.50
20-50	1274.31	N.A.	19.60
40-70	887.12	N.A.	13.60
60-80	299.25	N.A.	4.60
70-80	102.11	N.A.	1.60
80-90	27.58	N.A.	0.40
90-110	366.84	N.A.	5.60
90-120	848.57	N.A.	13.00
90-130	1494.82	N.A.	22.90
90-150	2972.13	N.A.	45.60
90-180	4180.24	N.A.	64.20
110-180	3813.4	N.A.	58.50
0-180	6514.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.09
10-20	316.94
20-30	430.87
30-40	451.43
40-50	392.02
50-60	297.96
60-70	197.14
70-80	102.11
80-90	27.58
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

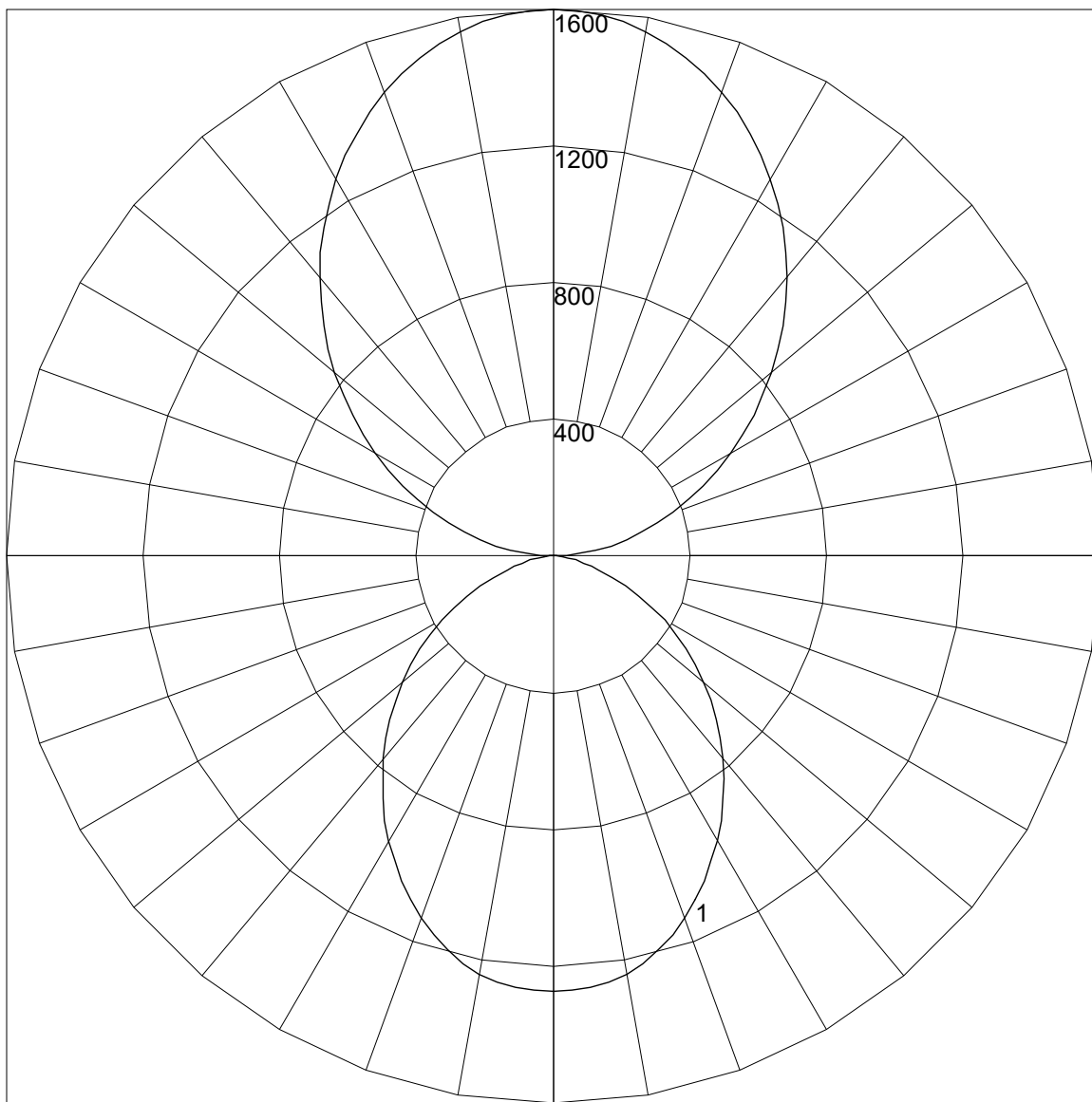
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43	36
1	95	91	87	84	86	83	79	77	67	65	63	52	51	50	39	38	37	31
2	87	80	74	69	78	73	68	64	59	56	53	46	44	42	35	33	32	27
3	80	71	64	58	72	64	58	54	52	48	45	41	39	36	31	29	28	23
4	73	63	55	50	66	57	51	46	47	42	38	37	34	31	28	26	24	20
5	67	56	48	43	61	51	45	40	42	37	33	34	30	27	26	23	22	18
6	62	50	43	37	56	46	39	35	38	33	29	30	27	24	23	21	19	16
7	57	46	38	33	52	42	35	30	35	30	26	28	24	22	21	19	17	14
8	53	41	34	29	48	38	32	27	32	27	23	26	22	19	20	17	16	13
9	50	38	31	26	45	35	29	24	29	24	21	24	20	17	18	16	14	12
10	46	35	28	23	42	32	26	22	27	22	19	22	18	16	17	15	13	11

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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)