

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-H-835-TG-RG-WCB-ITL85125-ITL90672.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.014 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-H-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 42.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 45.2 WATTS

[ABSOLUTE]LUMENS]4045

[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	4045
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	42.9
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	4496	5787	7949
55	3748	4290	6898
65	3218	3555	5454
75	2777	2952	3753
85	2229	2229	2526

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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	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	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-H-835-TG-RG-WCB-ITL85125-ITL90672.014.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-H-835-TG-RG-WCB-ITL85125-ITL90672.014.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	435.03	N.A.	10.80
0-30	865.89	N.A.	21.40
0-40	1317.32	N.A.	32.60
0-60	2007.3	N.A.	49.60
0-80	2306.56	N.A.	57.00
0-90	2334.14	N.A.	57.70
10-90	2216.05	N.A.	54.80
20-40	882.30	N.A.	21.80
20-50	1274.31	N.A.	31.50
40-70	887.12	N.A.	21.90
60-80	299.25	N.A.	7.40
70-80	102.11	N.A.	2.50
80-90	27.58	N.A.	0.70
90-110	150.16	N.A.	3.70
90-120	347.35	N.A.	8.60
90-130	611.88	N.A.	15.10
90-150	1216.58	N.A.	30.10
90-180	1711.1	N.A.	42.30
110-180	1560.94	N.A.	38.60
0-180	4045.23	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	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

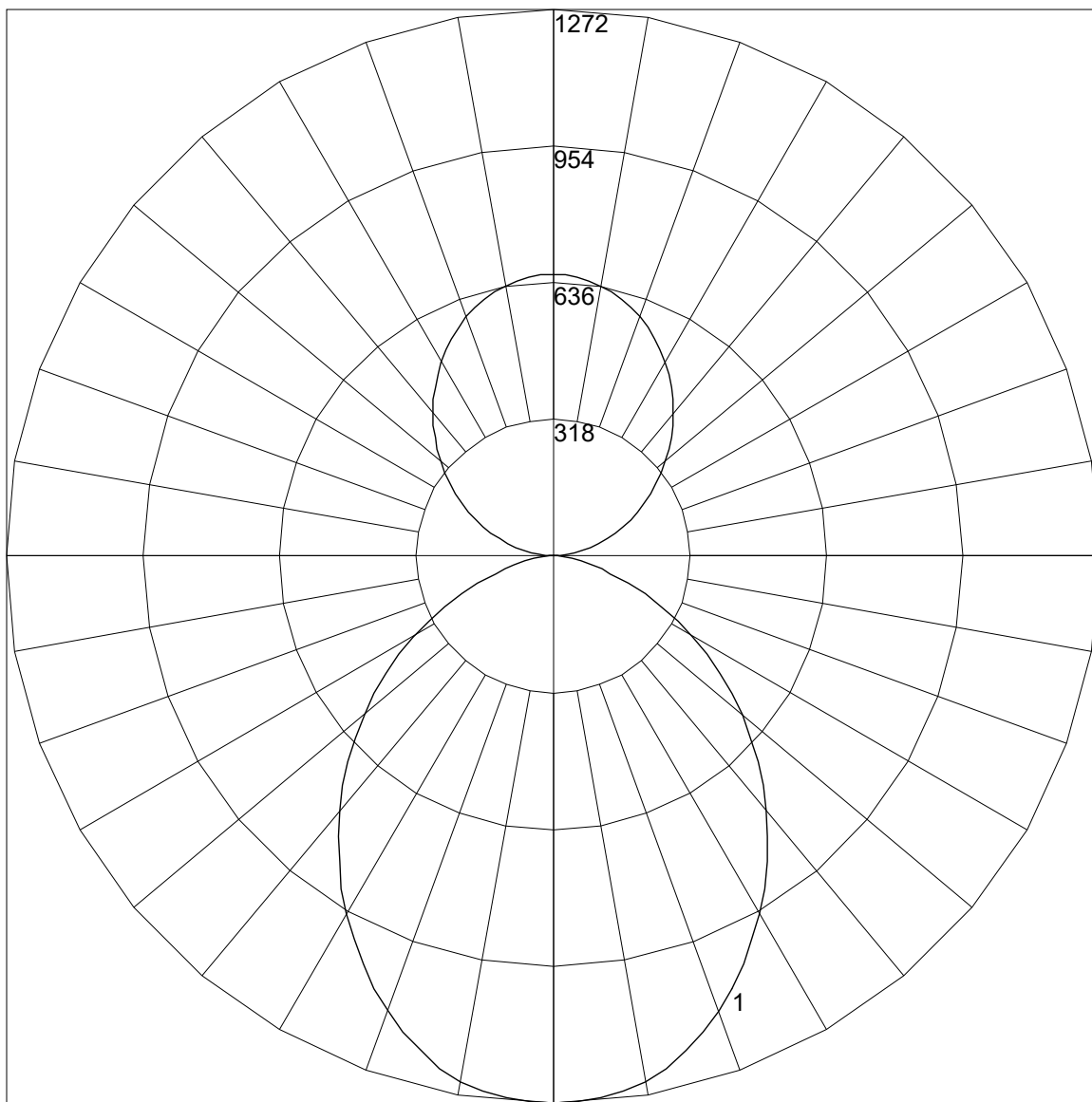
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	96	92	89	93	90	87	84	78	76	73	67	65	64	57	56	55	50
2	92	85	79	74	85	79	74	70	69	65	62	60	57	54	51	49	47	43
3	84	75	68	63	78	71	64	59	62	57	53	53	50	47	46	43	41	37
4	78	67	60	54	72	63	56	51	55	50	46	48	44	41	42	39	36	33
5	72	60	52	47	67	57	50	44	50	44	40	44	39	36	38	35	32	29
6	66	54	47	41	62	51	44	39	45	40	36	40	35	32	35	31	29	26
7	61	50	42	36	57	47	40	35	41	36	32	37	32	29	32	28	26	23
8	57	45	38	32	53	43	36	31	38	32	29	34	29	26	30	26	23	21
9	53	42	34	29	50	39	33	28	35	30	26	31	27	24	27	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 = 1272.401 Located At Horizontal Angle = 0, Vertical Angle = 0

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