

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-B-H-835-TG-RG-WCB-ITL85125-ITL90672.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.011 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-B-H-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 46.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 48.9 WATTS

[ABSOLUTE]LUMENS]4485

[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	4485
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	46.9
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	1169.738	1177.515	1201.625	1231.180	1242.068
12.5	1123.850	1132.405	1166.626	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	523.426	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	594.979	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	376.431
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	23.333	23.333	23.333	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	15.438	16.467	17.496	19.555	20.069
95.0	36.536	37.051	39.109	41.682	42.197
97.5	59.178	59.693	62.266	64.839	64.324
100.0	82.335	83.364	85.937	88.510	87.995
102.5	106.006	108.065	110.637	113.210	113.210
105.0	132.250	134.309	136.882	138.940	138.426
107.5	160.038	161.582	163.126	165.184	165.184
110.0	189.885	189.885	191.429	193.487	192.972
112.5	219.731	218.702	220.760	223.848	221.275
115.0	249.578	248.548	249.578	252.151	250.092
117.5	279.424	279.939	280.453	280.968	279.424
120.0	309.785	310.814	310.300	309.785	308.756
122.5	340.661	341.690	341.690	340.146	338.602
125.0	372.051	373.595	373.595	370.507	368.963
127.5	403.441	404.470	405.499	400.868	397.780
130.0	433.802	434.316	435.346	432.258	429.685
132.5	464.677	464.163	464.677	462.619	459.532

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-H-835-TG-RG-WCB-ITL85125-ITL90672.011.IES****CANDELA TABULATION - (Cont.)**

135.0	495.553	492.980	494.524	492.980	489.378
137.5	525.399	521.283	523.856	521.797	518.195
140.0	555.246	550.615	553.702	551.644	547.527
142.5	582.519	578.917	582.519	579.432	575.830
145.0	611.851	605.676	609.793	606.705	603.103
147.5	638.095	631.920	636.037	632.949	629.347
150.0	663.825	657.135	661.252	658.164	655.077
152.5	686.467	681.321	685.438	681.836	679.263
155.0	708.595	703.449	707.051	703.963	701.390
157.5	730.207	725.062	728.149	725.062	723.003
160.0	748.733	744.616	747.704	744.616	743.072
162.5	766.229	761.598	765.200	762.112	761.083
165.0	780.638	777.035	779.094	777.550	777.035
167.5	793.502	790.415	791.959	790.929	790.929
170.0	804.309	802.250	803.280	802.250	802.250
172.5	812.028	812.028	811.513	811.513	811.513
175.0	818.203	818.203	818.203	817.688	818.203
177.5	821.805	822.320	822.320	822.320	822.320
180.0	823.349	823.349	823.349	823.349	823.349

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-H-835-TG-RG-WCB-ITL85125-ITL90672.011.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	435.03	N.A.	9.70
0-30	865.89	N.A.	19.30
0-40	1317.32	N.A.	29.40
0-60	2007.3	N.A.	44.80
0-80	2306.56	N.A.	51.40
0-90	2334.14	N.A.	52.00
10-90	2216.05	N.A.	49.40
20-40	882.30	N.A.	19.70
20-50	1274.31	N.A.	28.40
40-70	887.12	N.A.	19.80
60-80	299.25	N.A.	6.70
70-80	102.11	N.A.	2.30
80-90	27.58	N.A.	0.60
90-110	188.77	N.A.	4.20
90-120	436.67	N.A.	9.70
90-130	769.23	N.A.	17.20
90-150	1529.44	N.A.	34.10
90-180	2151.12	N.A.	48.00
110-180	1962.35	N.A.	43.80
0-180	4485.26	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	44.11
100-110	144.66
110-120	247.90
120-130	332.56
130-140	380.45
140-150	379.77
150-160	324.72
160-170	219.35
170-180	77.61

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

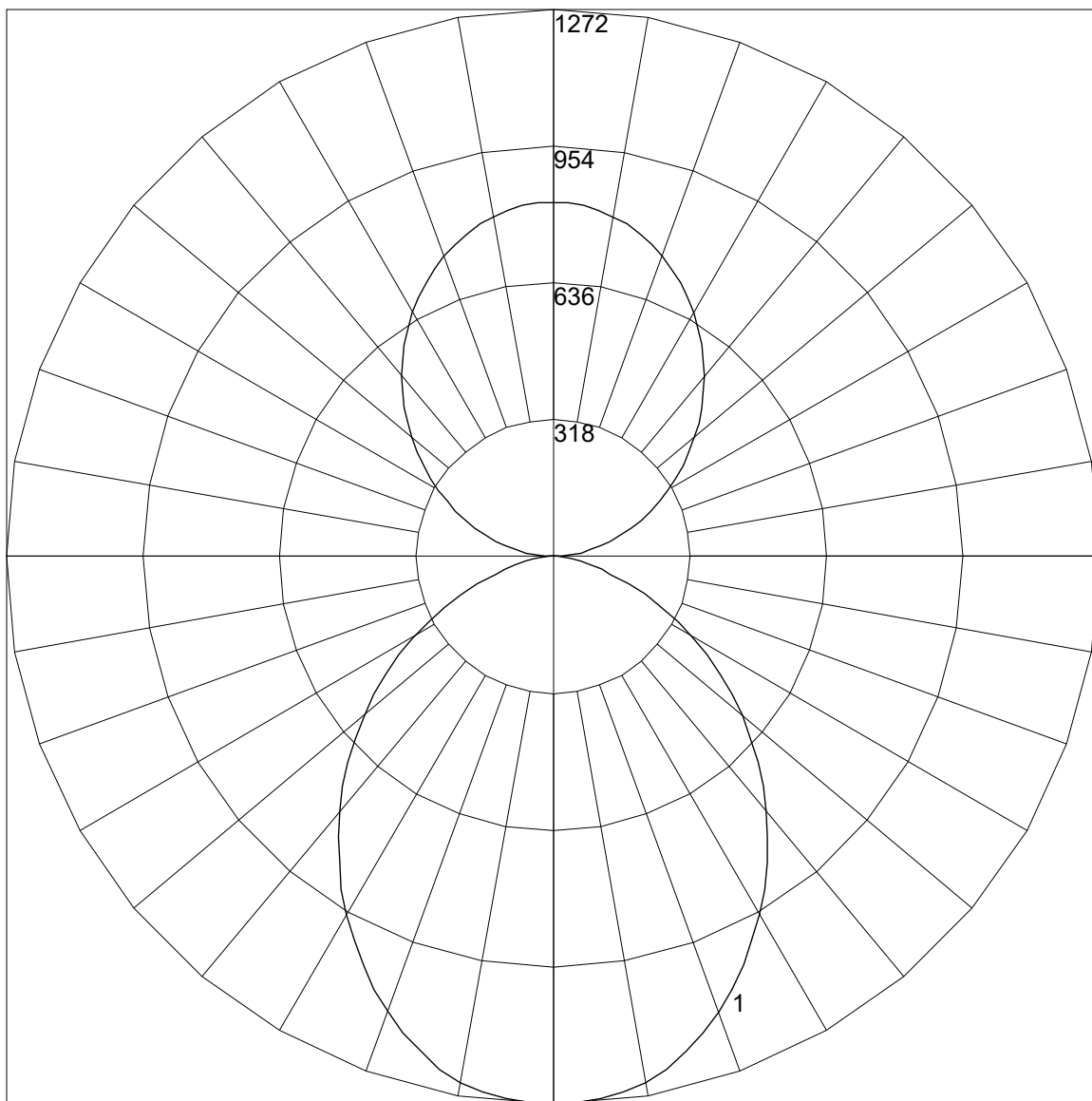
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52
1	99	95	91	88	91	88	85	82	75	73	71	63	62	60	52	51	50	45
2	91	84	78	73	84	78	73	68	66	63	60	56	54	51	47	45	43	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	53	71	62	55	50	53	48	44	45	42	38	38	35	33	30
5	70	59	51	46	65	55	48	43	48	43	38	41	37	34	35	32	29	26
6	65	53	46	40	60	50	43	38	43	38	34	37	33	30	32	29	26	23
7	60	48	41	35	56	45	39	34	40	34	30	34	30	27	29	26	24	21
8	56	44	37	32	52	42	35	30	36	31	27	32	27	24	27	24	21	19
9	52	41	33	28	49	38	32	27	34	28	25	29	25	22	25	22	19	17
10	49	37	30	26	46	35	29	25	31	26	22	27	23	20	23	20	18	16

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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)