

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-B-835-TG-RG-WCB-ITL85125-ITL90672.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.013 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-B-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 32.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 35.7 WATTS

[ABSOLUTE]LUMENS]3255

[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	3255
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	32.9
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	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>
0.0	841.874	841.874	841.874	841.874	841.874
2.5	836.728	837.243	838.787	840.845	840.845
5.0	821.805	823.863	829.009	835.184	837.243
7.5	800.192	804.309	814.601	826.436	831.068
10.0	773.948	779.094	795.046	814.601	821.805
12.5	743.587	749.247	771.890	797.105	807.911
15.0	712.711	718.886	745.645	774.462	788.871
17.5	679.263	684.923	715.284	750.277	768.287
20.0	642.727	649.416	682.865	722.489	744.616
22.5	604.647	613.395	648.902	693.671	719.916
25.0	567.081	576.859	613.909	661.767	693.157
27.5	528.487	539.293	577.888	629.347	664.340
30.0	490.407	499.670	541.866	596.413	636.037
32.5	450.269	462.619	504.816	562.965	606.705
35.0	409.616	422.995	468.794	529.002	574.286
37.5	370.507	384.401	431.744	494.524	542.896
40.0	331.398	346.321	396.751	461.590	510.991
42.5	290.745	308.756	360.730	428.141	479.086
45.0	252.665	270.676	325.223	393.664	446.667
47.5	226.421	235.684	291.774	360.730	413.218
50.0	206.866	210.983	258.326	328.310	379.770
52.5	189.370	191.943	225.392	295.376	346.836
55.0	170.845	174.447	195.545	264.501	314.416
57.5	154.892	157.465	172.389	233.625	280.968
60.0	138.940	140.484	153.863	204.293	249.063
62.5	123.502	124.532	135.853	175.991	216.129
65.0	108.065	110.123	119.386	149.232	183.195
67.5	94.685	96.229	102.919	123.502	152.834
70.0	81.820	82.335	87.481	102.404	122.988
72.5	69.470	69.985	73.587	83.879	92.627
75.0	57.120	57.634	60.722	67.412	77.189
77.5	45.799	46.313	47.857	53.003	61.237
80.0	35.507	35.507	36.022	39.624	44.770
82.5	25.215	24.700	25.730	27.273	29.846
85.0	15.438	15.438	15.438	15.952	17.496
87.5	6.175	6.175	5.661	6.175	6.175
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	222.676	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	345.475	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-B-835-TG-RG-WCB-ITL85125-ITL90672.013.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	545.228	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	591.073
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

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Zone	Lumens	%Lamp	%Fixt
0-20	287.83	N.A.	8.80
0-30	572.91	N.A.	17.60
0-40	871.60	N.A.	26.80
0-60	1328.12	N.A.	40.80
0-80	1526.12	N.A.	46.90
0-90	1544.36	N.A.	47.40
10-90	1466.23	N.A.	45.00
20-40	583.77	N.A.	17.90
20-50	843.14	N.A.	25.90
40-70	586.95	N.A.	18.00
60-80	198.00	N.A.	6.10
70-80	67.56	N.A.	2.10
80-90	18.25	N.A.	0.60
90-110	150.16	N.A.	4.60
90-120	347.35	N.A.	10.70
90-130	611.88	N.A.	18.80
90-150	1216.58	N.A.	37.40
90-180	1711.1	N.A.	52.60
110-180	1560.94	N.A.	47.90
0-180	3255.46	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	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

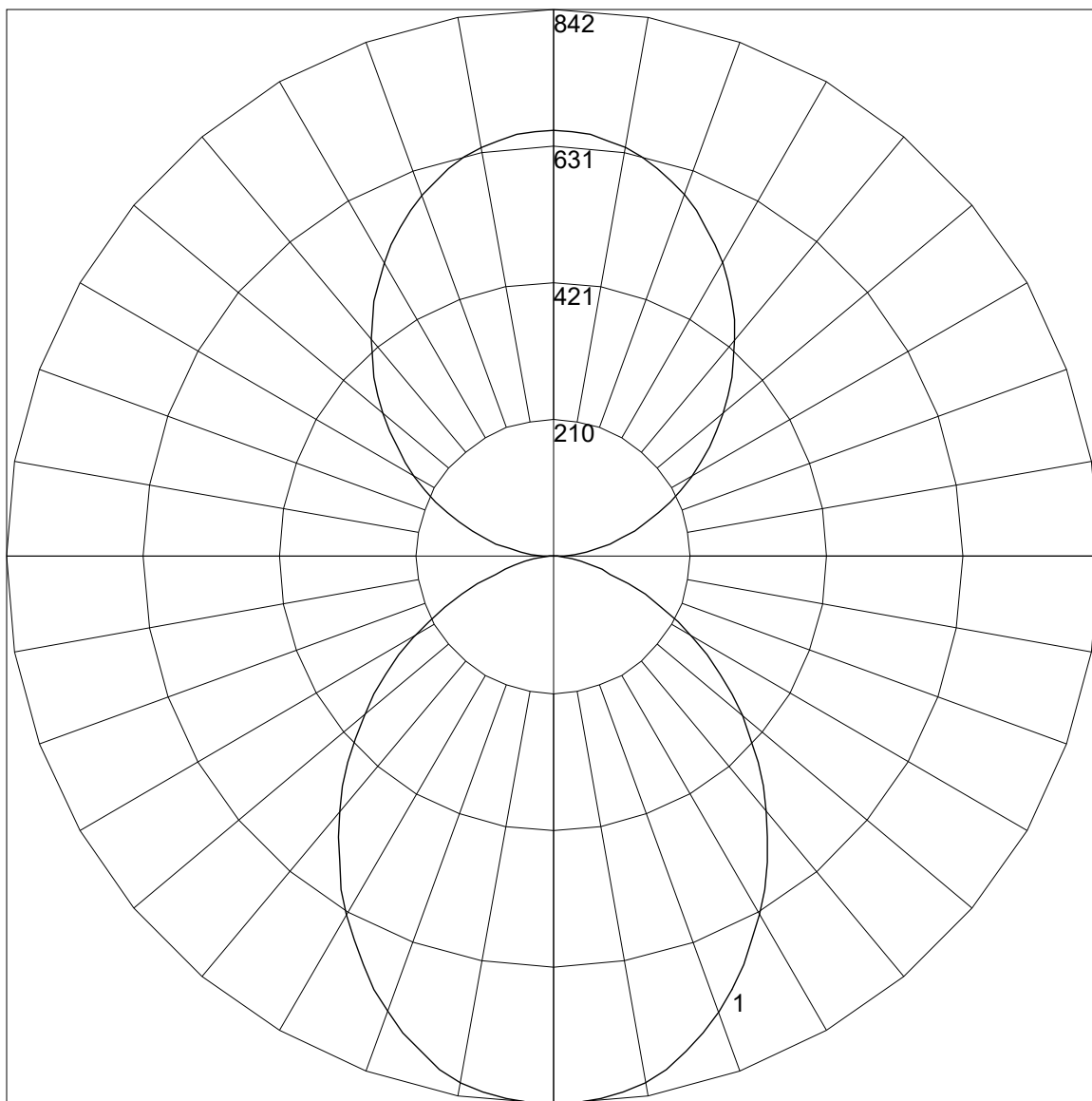
Effective Floor Cavity Reflectance 0.20

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	98	94	90	87	90	86	83	80	73	70	68	60	59	57	48	47	47	41
2	90	83	77	72	82	76	71	67	64	61	58	53	51	49	43	42	40	35
3	82	73	66	61	75	68	62	57	57	53	49	48	45	42	39	37	35	31
4	75	65	58	52	69	60	54	49	51	46	42	43	39	36	35	33	31	27
5	69	58	51	45	64	54	47	42	46	41	37	39	35	32	32	29	27	24
6	64	53	45	39	59	49	42	37	42	37	33	35	31	28	29	26	24	21
7	60	48	40	35	55	44	38	33	38	33	29	32	28	25	27	24	22	19
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	25	22	20	17
9	52	40	33	28	48	37	31	26	32	27	23	28	24	21	23	20	18	16
10	48	37	30	25	45	34	28	24	30	25	21	26	22	19	22	19	16	15

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POLAR GRAPH



Maximum Candela = 841.874 Located At Horizontal Angle = 0, Vertical Angle = 0

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