

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-S-835-TG-RG-WCB-ITL85125-ITL90672.001.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.001 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-S-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 29.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 32.0 WATTS

[ABSOLUTE]LUMENS]2940

[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	2940
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	29
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	2366	3046	4183
55	1973	2258	3630
65	1693	1871	2871
75	1462	1554	1975
85	1173	1173	1329

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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	669.670	669.670	669.670	669.670	669.670
2.5	665.577	665.986	667.214	668.852	668.852
5.0	653.706	655.344	659.437	664.349	665.986
7.5	636.514	639.789	647.976	657.390	661.074
10.0	615.638	619.732	632.421	647.976	653.706
12.5	591.488	595.990	614.001	634.058	642.654
15.0	566.928	571.840	593.125	616.048	627.509
17.5	540.321	544.823	568.974	596.809	611.136
20.0	511.258	516.580	543.186	574.705	592.306
22.5	480.967	487.926	516.170	551.782	572.658
25.0	451.086	458.863	488.335	526.404	551.373
27.5	420.386	428.982	459.682	500.615	528.450
30.0	390.095	397.463	431.029	474.418	505.937
32.5	358.167	367.991	401.557	447.811	482.605
35.0	325.830	336.473	372.903	420.795	456.817
37.5	294.721	305.772	343.431	393.370	431.847
40.0	263.611	275.482	315.596	367.173	406.469
42.5	231.274	245.600	286.943	340.566	381.090
45.0	200.983	215.310	258.699	313.140	355.302
47.5	180.107	187.475	232.092	286.943	328.695
50.0	164.552	167.827	205.486	261.155	302.089
52.5	150.635	152.682	179.288	234.958	275.891
55.0	135.899	138.764	155.547	210.398	250.103
57.5	123.210	125.256	137.127	185.838	223.496
60.0	110.520	111.748	122.391	162.506	198.118
62.5	98.240	99.059	108.064	139.992	171.920
65.0	85.960	87.597	94.966	118.707	145.723
67.5	75.317	76.546	81.867	98.240	121.572
70.0	65.084	65.493	69.587	81.457	97.831
72.5	55.260	55.669	58.535	66.721	73.680
75.0	45.436	45.845	48.301	53.623	61.400
77.5	36.431	36.840	38.068	42.161	48.711
80.0	28.244	28.244	28.653	31.519	35.612
82.5	20.057	19.648	20.467	21.695	23.741
85.0	12.280	12.280	12.280	12.689	13.917
87.5	4.912	4.912	4.503	4.912	4.912
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	29.063	29.472	31.109	33.156	33.565
97.5	47.073	47.483	49.529	51.576	51.167
100.0	65.493	66.312	68.359	70.405	69.996
102.5	84.323	85.960	88.007	90.053	90.053
105.0	105.199	106.836	108.883	110.520	110.111
107.5	127.303	128.531	129.759	131.396	131.396
110.0	151.044	151.044	152.272	153.910	153.500
112.5	174.786	173.967	175.604	178.060	176.014
115.0	198.527	197.708	198.527	200.574	198.936
117.5	222.268	222.678	223.087	223.496	222.268
120.0	246.419	247.238	246.828	246.419	245.600
122.5	270.979	271.798	271.798	270.570	269.342
125.0	295.949	297.176	297.176	294.721	293.493
127.5	320.918	321.736	322.555	318.871	316.415
130.0	345.069	345.478	346.297	343.841	341.794
132.5	369.629	369.219	369.629	367.991	365.535

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-S-S-835-TG-RG-WCB-ITL85125-ITL90672.001.IES****CANDELA TABULATION - (Cont.)**

135.0	394.189	392.142	393.370	392.142	389.277
137.5	417.930	414.655	416.702	415.065	412.199
140.0	441.671	437.987	440.443	438.806	435.531
142.5	463.366	460.501	463.366	460.910	458.045
145.0	486.698	481.786	485.061	482.605	479.739
147.5	507.574	502.662	505.937	503.481	500.615
150.0	528.041	522.720	525.994	523.538	521.082
152.5	546.052	541.958	545.233	542.368	540.321
155.0	563.653	559.560	562.425	559.969	557.922
157.5	580.845	576.752	579.208	576.752	575.114
160.0	595.581	592.306	594.762	592.306	591.078
162.5	609.498	605.814	608.680	606.224	605.405
165.0	620.960	618.094	619.732	618.504	618.094
167.5	631.193	628.737	629.965	629.146	629.146
170.0	639.789	638.152	638.970	638.152	638.152
172.5	645.929	645.929	645.520	645.520	645.520
175.0	650.841	650.841	650.841	650.432	650.841
177.5	653.706	654.116	654.116	654.116	654.116
180.0	654.934	654.934	654.934	654.934	654.934

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Zone	Lumens	%Lamp	%Fixt
0-20	228.96	N.A.	7.80
0-30	455.72	N.A.	15.50
0-40	693.31	N.A.	23.60
0-60	1056.45	N.A.	35.90
0-80	1213.95	N.A.	41.30
0-90	1228.47	N.A.	41.80
10-90	1166.32	N.A.	39.70
20-40	464.36	N.A.	15.80
20-50	670.68	N.A.	22.80
40-70	466.89	N.A.	15.90
60-80	157.50	N.A.	5.40
70-80	53.74	N.A.	1.80
80-90	14.52	N.A.	0.50
90-110	150.16	N.A.	5.10
90-120	347.35	N.A.	11.80
90-130	611.88	N.A.	20.80
90-150	1216.6	N.A.	41.40
90-180	1711.11	N.A.	58.20
110-180	1560.95	N.A.	53.10
0-180	2939.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.15
10-20	166.81
20-30	226.77
30-40	237.59
40-50	206.32
50-60	156.82
60-70	103.75
70-80	53.74
80-90	14.52
90-100	35.09
100-110	115.07
110-120	197.19
120-130	264.53
130-140	302.63
140-150	302.09
150-160	258.30
160-170	174.49
170-180	61.73

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

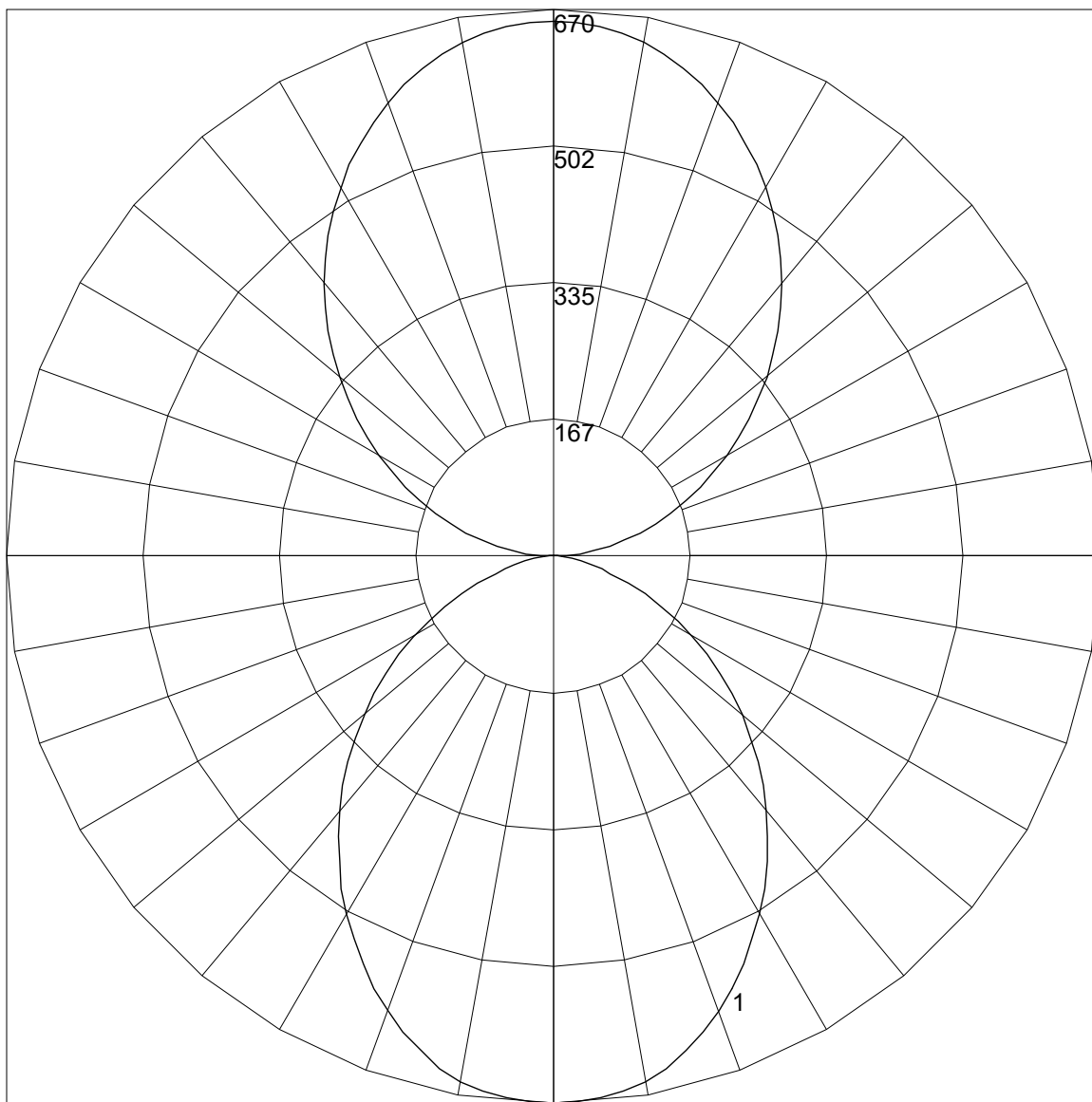
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	89	85	88	84	81	79	70	68	66	56	55	53	44	43	42	36
2	88	81	75	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 = 669.67 Located At Horizontal Angle = 0, Vertical Angle = 0

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