

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-S-835-TG-RG-WCB-ITL85125-ITL90672.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.010 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-S-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]3380

[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	3380
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	32.9
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	2366	3046	4183
55	1973	2258	3630
65	1693	1871	2871
75	1462	1554	1975
85	1173	1173	1329

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-S-835-TG-RG-WCB-ITL85125-ITL90672.010.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	669.664	669.664	669.664	669.664	669.664
2.5	665.571	665.980	667.208	668.845	668.845
5.0	653.700	655.337	659.431	664.343	665.980
7.5	636.508	639.783	647.969	657.384	661.068
10.0	615.632	619.726	632.415	647.969	653.700
12.5	591.482	595.985	613.995	634.052	642.648
15.0	566.922	571.834	593.119	616.042	627.503
17.5	540.316	544.818	568.969	596.803	611.130
20.0	511.253	516.574	543.181	574.699	592.301
22.5	480.963	487.921	516.165	551.777	572.653
25.0	451.082	458.859	488.331	526.398	551.367
27.5	420.382	428.978	459.678	500.611	528.445
30.0	390.091	397.459	431.024	474.413	505.932
32.5	358.164	367.988	401.553	447.807	482.600
35.0	325.827	336.469	372.900	420.791	456.812
37.5	294.718	305.769	343.428	393.366	431.843
40.0	263.608	275.479	315.593	367.169	406.465
42.5	231.272	245.598	286.940	340.563	381.086
45.0	200.981	215.308	258.697	313.137	355.298
47.5	180.105	187.473	232.090	286.940	328.692
50.0	164.551	167.825	205.484	261.152	302.086
52.5	150.633	152.680	179.286	234.955	275.888
55.0	135.898	138.763	155.545	210.396	250.101
57.5	123.208	125.255	137.125	185.836	223.494
60.0	110.519	111.747	122.390	162.504	198.116
62.5	98.239	99.058	108.063	139.991	171.919
65.0	85.959	87.597	94.965	118.706	145.721
67.5	75.317	76.545	81.866	98.239	121.571
70.0	65.084	65.493	69.586	81.457	97.830
72.5	55.260	55.669	58.534	66.721	73.679
75.0	45.436	45.845	48.301	53.622	61.400
77.5	36.430	36.840	38.068	42.161	48.710
80.0	28.244	28.244	28.653	31.518	35.612
82.5	20.057	19.648	20.466	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	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	108.064	110.638	113.210	113.210
105.0	132.250	134.309	136.882	138.940	138.425
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	373.594	373.594	370.507	368.963
127.5	403.441	404.470	405.499	400.868	397.780
130.0	433.802	434.317	435.346	432.258	429.685
132.5	464.678	464.163	464.678	462.619	459.532

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-S-835-TG-RG-WCB-ITL85125-ITL90672.010.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

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Zone	Lumens	%Lamp	%Fixt
0-20	228.95	N.A.	6.80
0-30	455.72	N.A.	13.50
0-40	693.31	N.A.	20.50
0-60	1056.44	N.A.	31.30
0-80	1213.94	N.A.	35.90
0-90	1228.46	N.A.	36.30
10-90	1166.31	N.A.	34.50
20-40	464.35	N.A.	13.70
20-50	670.67	N.A.	19.80
40-70	466.89	N.A.	13.80
60-80	157.50	N.A.	4.70
70-80	53.74	N.A.	1.60
80-90	14.52	N.A.	0.40
90-110	188.77	N.A.	5.60
90-120	436.67	N.A.	12.90
90-130	769.23	N.A.	22.80
90-150	1529.44	N.A.	45.30
90-180	2151.12	N.A.	63.70
110-180	1962.35	N.A.	58.10
0-180	3379.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.15
10-20	166.80
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	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

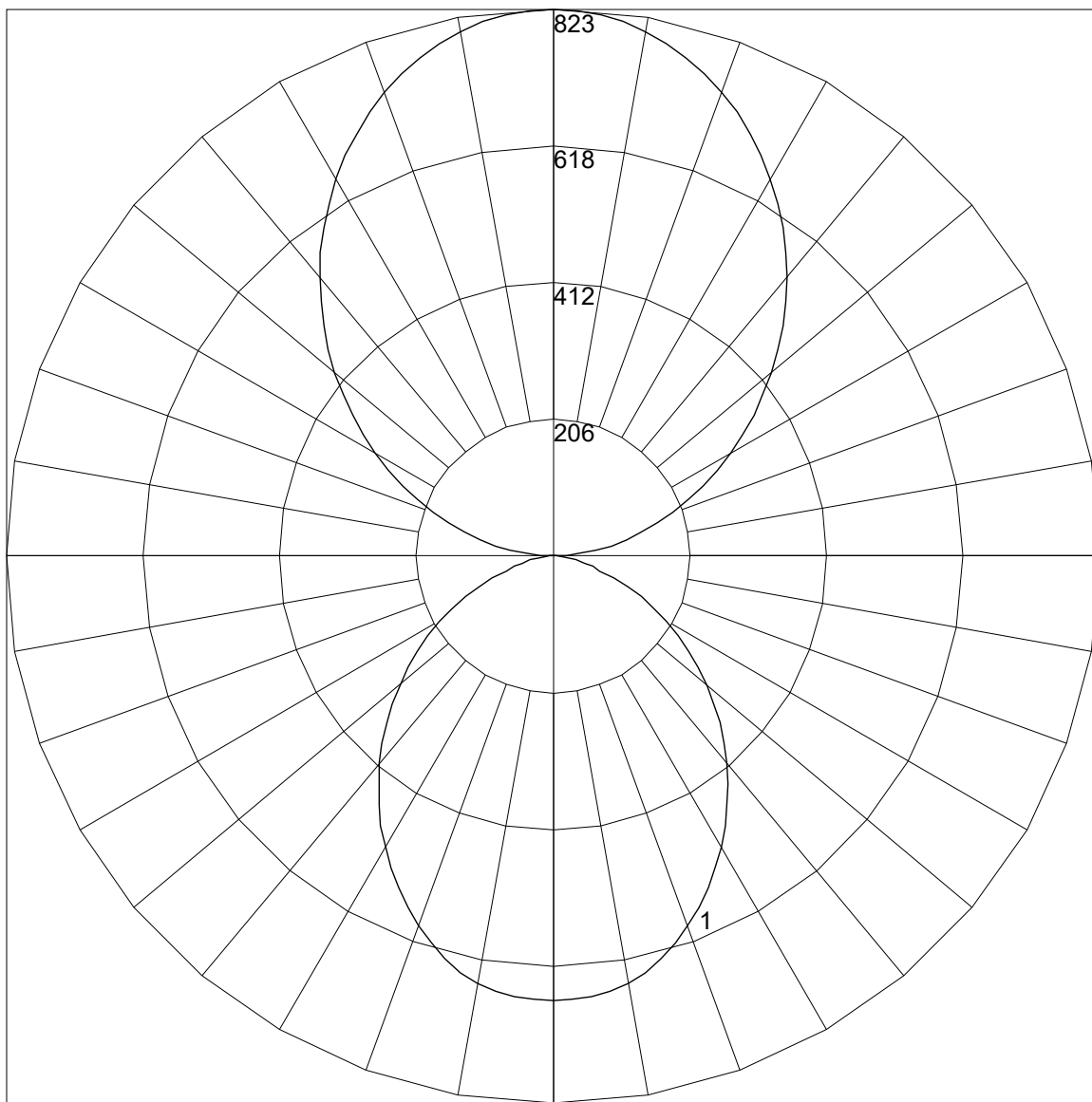
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	83	80	77	67	65	63	52	51	50	39	38	38	31
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	32	27
3	80	71	64	58	72	64	59	54	53	48	45	42	39	36	31	30	28	24
4	73	63	55	50	66	57	51	46	47	42	39	37	34	32	28	26	25	21
5	67	56	49	43	61	51	45	40	42	37	34	34	30	28	26	24	22	18
6	62	51	43	37	56	46	40	35	38	33	30	31	27	24	24	21	19	16
7	57	46	38	33	52	42	35	31	35	30	26	28	24	22	22	19	17	15
8	53	42	34	29	48	38	32	27	32	27	23	26	22	20	20	18	16	13
9	50	38	31	26	45	35	29	24	29	24	21	24	20	18	19	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 = 823.349 Located At Horizontal Angle = 0, Vertical Angle = 180

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