

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-H-S-835-TG-RG-WCB-ITL85125-ITL90672.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.007 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-H-S-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]4480

[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	4480
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	42.9
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-H-S-835-TG-RG-WCB-ITL85125-ITL90672.007.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	23.332	24.888	26.444	29.555	30.332
95.0	55.220	55.998	59.109	62.998	63.776
97.5	89.441	90.219	94.108	97.997	97.219
100.0	124.440	125.996	129.884	133.773	132.995
102.5	160.217	163.328	167.216	171.105	171.105
105.0	199.882	202.993	206.882	209.993	209.215
107.5	241.881	244.214	246.547	249.658	249.658
110.0	286.990	286.990	289.323	292.434	291.657
112.5	332.100	330.544	333.655	338.322	334.433
115.0	377.209	375.654	377.209	381.098	377.987
117.5	422.319	423.097	423.874	424.652	422.319
120.0	468.206	469.762	468.984	468.206	466.651
122.5	514.871	516.427	516.427	514.093	511.760
125.0	562.314	564.647	564.647	559.981	557.648
127.5	609.757	611.312	612.868	605.868	601.202
130.0	655.644	656.422	657.977	653.311	649.422
132.5	702.309	701.531	702.309	699.198	694.532

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-S-835-TG-RG-WCB-ITL85125-ITL90672.007.IES****CANDELA TABULATION - (Cont.)**

135.0	748.974	745.085	747.419	745.085	739.641
137.5	794.084	787.862	791.750	788.639	783.195
140.0	839.193	832.193	836.860	833.749	827.527
142.5	880.414	874.970	880.414	875.748	870.303
145.0	924.746	915.413	921.635	916.968	911.524
147.5	964.411	955.078	961.300	956.634	951.189
150.0	1003.299	993.188	999.410	994.744	990.077
152.5	1037.520	1029.742	1035.964	1030.520	1026.631
155.0	1070.963	1063.186	1068.630	1063.963	1060.075
157.5	1103.629	1095.851	1100.518	1095.851	1092.740
160.0	1131.628	1125.406	1130.072	1125.406	1123.072
162.5	1158.071	1151.072	1156.516	1151.849	1150.294
165.0	1179.848	1174.404	1177.515	1175.182	1174.404
167.5	1199.292	1194.626	1196.959	1195.403	1195.403
170.0	1215.625	1212.514	1214.069	1212.514	1212.514
172.5	1227.291	1227.291	1226.513	1226.513	1226.513
175.0	1236.624	1236.624	1236.624	1235.846	1236.624
177.5	1242.068	1242.846	1242.846	1242.846	1242.846
180.0	1244.402	1244.402	1244.402	1244.402	1244.402

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Zone	Lumens	%Lamp	%Fixt
0-20	228.95	N.A.	5.10
0-30	455.72	N.A.	10.20
0-40	693.31	N.A.	15.50
0-60	1056.44	N.A.	23.60
0-80	1213.94	N.A.	27.10
0-90	1228.46	N.A.	27.40
10-90	1166.31	N.A.	26.00
20-40	464.35	N.A.	10.40
20-50	670.67	N.A.	15.00
40-70	466.89	N.A.	10.40
60-80	157.50	N.A.	3.50
70-80	53.74	N.A.	1.20
80-90	14.52	N.A.	0.30
90-110	285.31	N.A.	6.40
90-120	659.98	N.A.	14.70
90-130	1162.6	N.A.	26.00
90-150	2311.58	N.A.	51.60
90-180	3251.18	N.A.	72.60
110-180	2965.88	N.A.	66.20
0-180	4479.64	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	66.67
100-110	218.64
110-120	374.67
120-130	502.62
130-140	575.00
140-150	573.98
150-160	490.78
160-170	331.53
170-180	117.30

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

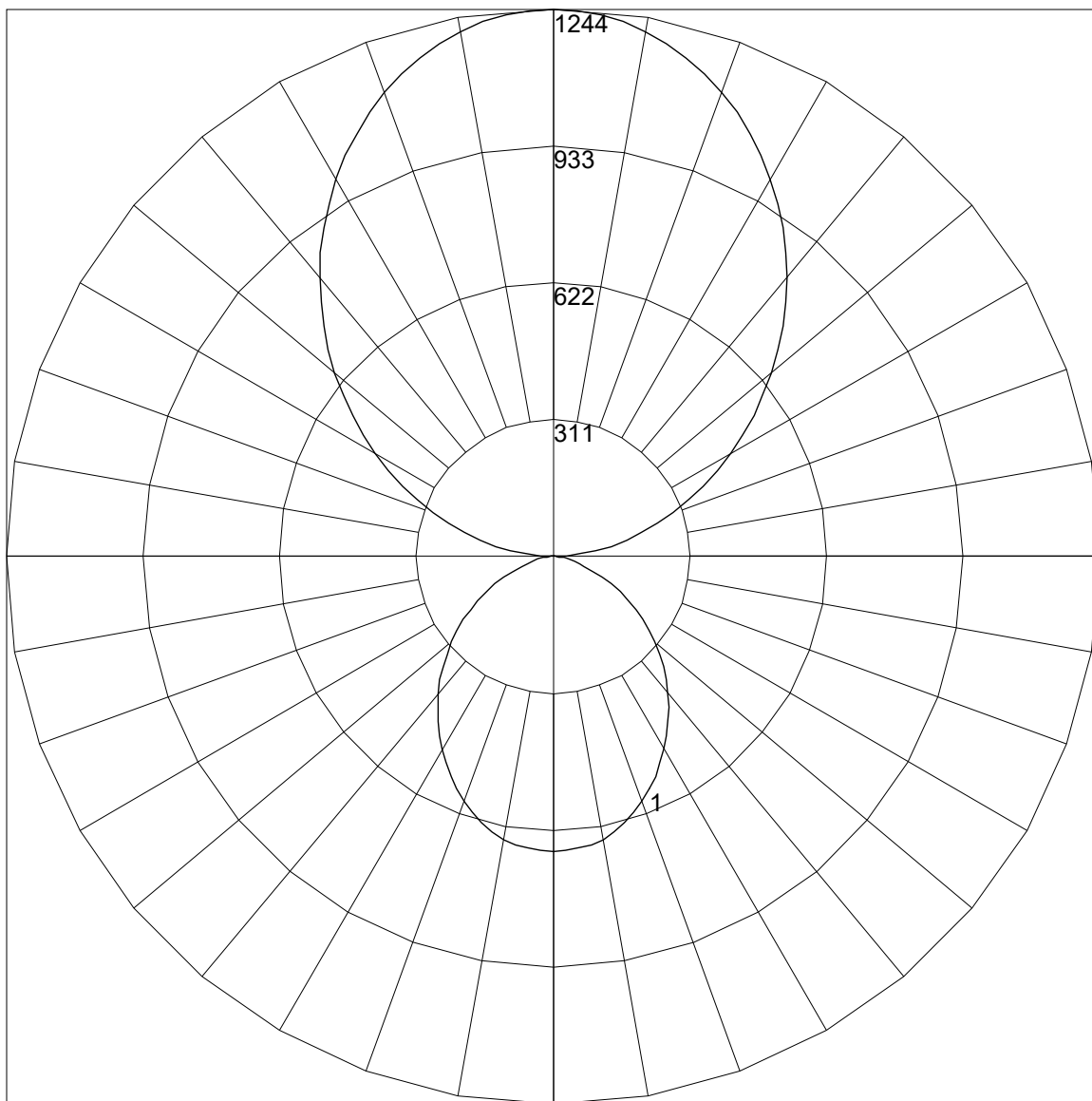
Effective Floor Cavity Reflectance 0.20

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	93	89	85	82	83	80	77	74	62	60	59	46	45	44	32	31	30	24
2	85	78	72	68	76	70	65	61	55	52	49	41	39	37	28	27	26	20
3	78	69	62	57	69	62	56	51	49	45	42	37	34	32	25	24	23	18
4	71	61	54	48	63	55	49	44	44	39	36	33	30	28	23	21	20	16
5	65	54	47	41	58	49	43	38	39	34	31	30	27	24	21	19	17	14
6	60	49	41	36	54	44	38	33	35	30	27	27	24	21	19	17	16	12
7	56	44	37	31	50	40	33	29	32	27	24	24	21	19	17	15	14	11
8	52	40	33	28	46	36	30	25	29	24	21	22	19	17	16	14	13	10
9	48	36	29	25	43	33	27	23	27	22	19	21	17	15	15	13	11	9
10	45	33	27	22	40	30	24	20	25	20	17	19	16	14	14	12	10	8

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POLAR GRAPH



Maximum Candela = 1244.402 Located At Horizontal Angle = 0, Vertical Angle = 180

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