

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-B-835-TG-RG-WCB-ITL85125-ITL90672.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.008 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-B-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]4796

[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	4796
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	46.9
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	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	771.889	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	567.082	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	431.743	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	154.893	157.465	172.389	233.625	280.968
60.0	138.940	140.484	153.863	204.293	249.063
62.5	123.502	124.531	135.853	175.991	216.129
65.0	108.064	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	24.701	25.730	27.273	29.846
85.0	15.438	15.438	15.438	15.952	17.496
87.5	6.175	6.175	5.660	6.175	6.175
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-B-835-TG-RG-WCB-ITL85125-ITL90672.008.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	287.83	N.A.	6.00
0-30	572.91	N.A.	11.90
0-40	871.60	N.A.	18.20
0-60	1328.12	N.A.	27.70
0-80	1526.12	N.A.	31.80
0-90	1544.36	N.A.	32.20
10-90	1466.23	N.A.	30.60
20-40	583.77	N.A.	12.20
20-50	843.14	N.A.	17.60
40-70	586.95	N.A.	12.20
60-80	198.00	N.A.	4.10
70-80	67.56	N.A.	1.40
80-90	18.25	N.A.	0.40
90-110	285.31	N.A.	5.90
90-120	659.98	N.A.	13.80
90-130	1162.6	N.A.	24.20
90-150	2311.58	N.A.	48.20
90-180	3251.18	N.A.	67.80
110-180	2965.88	N.A.	61.80
0-180	4795.55	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	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

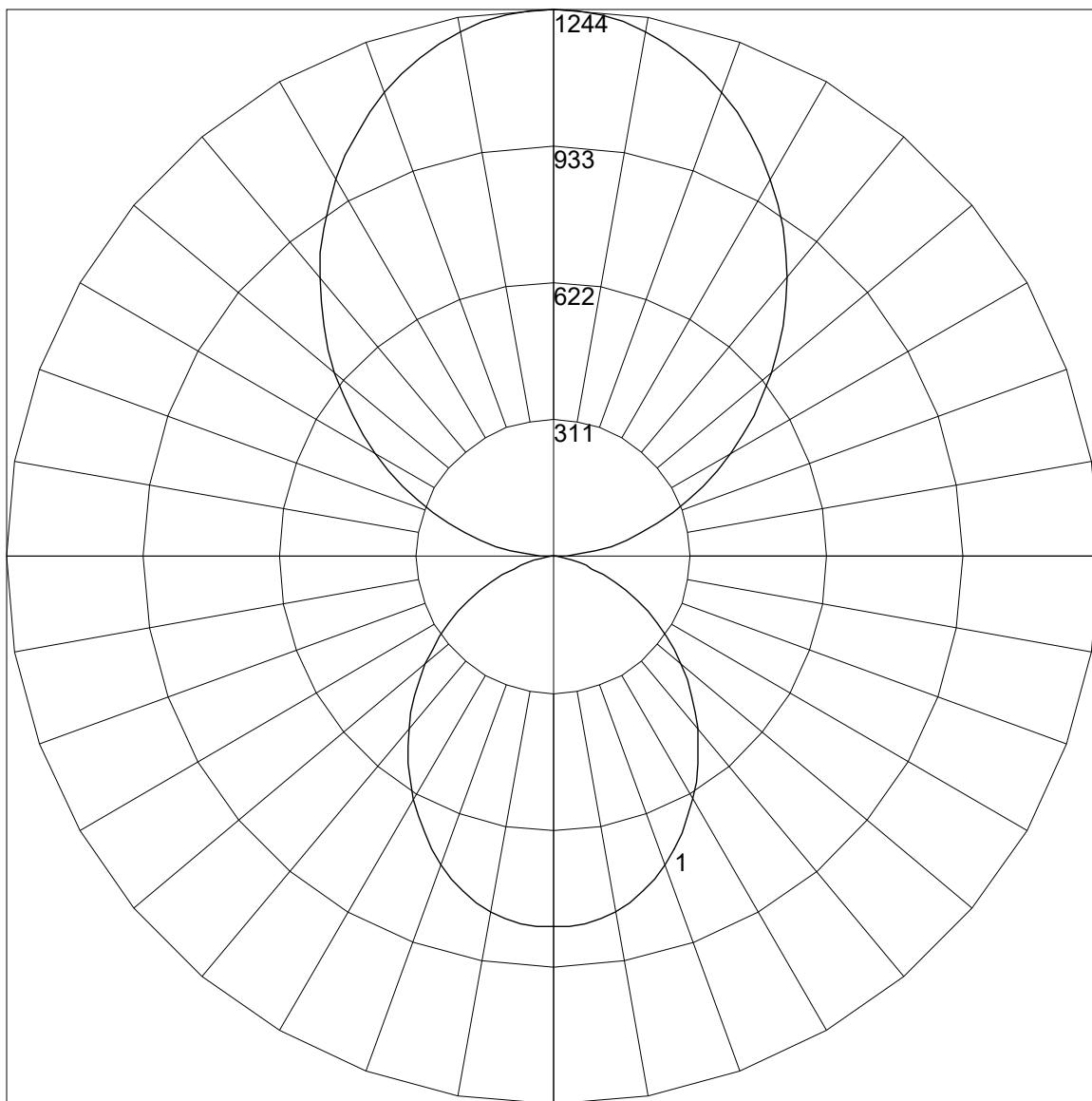
Effective Floor Cavity Reflectance 0.20

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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	85	81	78	76	65	63	61	50	48	47	36	35	34	28
2	86	79	73	69	77	72	67	63	57	54	51	44	42	40	32	31	30	24
3	79	70	63	58	71	63	57	53	51	47	43	39	37	34	29	27	26	21
4	72	62	55	49	65	56	50	45	45	41	37	35	32	30	26	24	22	18
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	21	20	16
6	61	50	42	37	55	45	39	34	37	32	28	29	26	23	21	19	18	14
7	57	45	37	32	51	41	34	30	33	29	25	26	23	20	20	18	16	13
8	53	41	33	28	47	37	31	26	31	26	22	24	21	18	18	16	14	12
9	49	37	30	25	44	34	28	24	28	23	20	22	19	16	17	15	13	11
10	46	34	27	23	41	31	25	21	26	21	18	21	17	15	16	13	12	10

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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)