

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-H-835-TG-RG-WCB-ITL85125-ITL90672.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85125 ITL90672.003 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-H-835-TG-RG-WCB-ITL85125-ITL90672

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 56.8 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 58.4 WATTS

[ABSOLUTE]LUMENS]5586

[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	5586
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	56.8
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	4497	5788	7949
55	3748	4290	6898
65	3218	3555	5455
75	2777	2952	3753
85	2229	2229	2526

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-H-835-TG-RG-WCB-ITL85125-ITL90672.003.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	1272.533	1272.533	1272.533	1272.533	1272.533
2.5	1264.755	1265.533	1267.866	1270.977	1270.977
5.0	1242.198	1245.309	1253.087	1262.421	1265.533
7.5	1209.529	1215.752	1231.308	1249.198	1256.199
10.0	1169.859	1177.638	1201.751	1231.308	1242.198
12.5	1123.967	1132.523	1166.748	1204.862	1221.196
15.0	1077.297	1086.631	1127.079	1170.637	1192.417
17.5	1026.738	1035.294	1081.187	1134.079	1161.303
20.0	971.512	981.624	1032.183	1092.076	1125.523
22.5	913.953	927.176	980.846	1048.518	1088.187
25.0	857.171	871.950	927.954	1000.292	1047.740
27.5	798.833	815.168	873.505	951.288	1004.181
30.0	741.274	755.275	819.057	901.507	961.400
32.5	680.603	699.271	763.053	850.948	917.064
35.0	619.154	639.378	708.605	799.611	868.061
37.5	560.039	581.040	652.601	747.497	820.613
40.0	500.924	523.481	599.708	697.715	772.387
42.5	439.475	466.699	545.260	647.156	724.162
45.0	381.916	409.140	491.590	595.042	675.158
47.5	342.246	356.247	441.031	545.260	624.599
50.0	312.688	318.911	390.472	496.257	574.040
52.5	286.242	290.131	340.690	446.476	524.259
55.0	258.240	263.685	295.576	399.806	475.255
57.5	234.127	238.017	260.574	353.136	424.696
60.0	210.015	212.348	232.572	308.799	376.471
62.5	186.680	188.235	205.348	266.019	326.690
65.0	163.345	166.456	180.457	225.571	276.908
67.5	143.121	145.455	155.566	186.680	231.016
70.0	123.675	124.453	132.231	154.789	185.902
72.5	105.007	105.785	111.230	126.787	140.010
75.0	86.339	87.117	91.784	101.896	116.675
77.5	69.227	70.005	72.338	80.117	92.562
80.0	53.670	53.670	54.448	59.893	67.671
82.5	38.114	37.336	38.892	41.225	45.114
85.0	23.335	23.335	23.335	24.113	26.446
87.5	9.334	9.334	8.556	9.334	9.334
90.0	0.000	0.000	0.000	0.000	0.000
92.5	23.335	24.891	26.446	29.558	30.335
95.0	55.226	56.004	59.115	63.004	63.782
97.5	89.451	90.228	94.118	98.007	97.229
100.0	124.453	126.009	129.898	133.787	133.009
102.5	160.233	163.345	167.234	171.123	171.123
105.0	199.903	203.014	206.903	210.015	209.237
107.5	241.906	244.239	246.573	249.684	249.684
110.0	287.020	287.020	289.353	292.465	291.687
112.5	332.134	330.579	333.690	338.357	334.468
115.0	377.248	375.693	377.248	381.138	378.026
117.5	422.363	423.141	423.918	424.696	422.363
120.0	468.255	469.810	469.033	468.255	466.699
122.5	514.925	516.481	516.481	514.147	511.813
125.0	562.373	564.706	564.706	560.039	557.706
127.5	609.820	611.376	612.932	605.931	601.264
130.0	655.712	656.490	658.046	653.379	649.490
132.5	702.382	701.605	702.382	699.271	694.604

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-H-835-TG-RG-WCB-ITL85125-ITL90672.003.IES****CANDELA TABULATION - (Cont.)**

135.0	749.052	745.163	747.497	745.163	739.718
137.5	794.166	787.944	791.833	788.722	783.277
140.0	839.281	832.280	836.947	833.836	827.613
142.5	880.506	875.061	880.506	875.839	870.394
145.0	924.842	915.508	921.731	917.064	911.619
147.5	964.512	955.178	961.400	956.733	951.288
150.0	1003.403	993.291	999.514	994.847	990.180
152.5	1037.628	1029.850	1036.072	1030.627	1026.738
155.0	1071.075	1063.296	1068.741	1064.074	1060.185
157.5	1103.744	1095.965	1100.632	1095.965	1092.854
160.0	1131.746	1125.523	1130.190	1125.523	1123.189
162.5	1158.192	1151.191	1156.636	1151.969	1150.414
165.0	1179.971	1174.526	1177.638	1175.304	1174.526
167.5	1199.417	1194.750	1197.083	1195.528	1195.528
170.0	1215.752	1212.640	1214.196	1212.640	1212.640
172.5	1227.419	1227.419	1226.641	1226.641	1226.641
175.0	1236.753	1236.753	1236.753	1235.975	1236.753
177.5	1242.198	1242.976	1242.976	1242.976	1242.976
180.0	1244.531	1244.531	1244.531	1244.531	1244.531

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-H-835-TG-RG-WCB-ITL85125-ITL90672.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	435.07	N.A.	7.80
0-30	865.98	N.A.	15.50
0-40	1317.46	N.A.	23.60
0-60	2007.51	N.A.	35.90
0-80	2306.8	N.A.	41.30
0-90	2334.38	N.A.	41.80
10-90	2216.28	N.A.	39.70
20-40	882.39	N.A.	15.80
20-50	1274.45	N.A.	22.80
40-70	887.21	N.A.	15.90
60-80	299.28	N.A.	5.40
70-80	102.13	N.A.	1.80
80-90	27.58	N.A.	0.50
90-110	285.34	N.A.	5.10
90-120	660.05	N.A.	11.80
90-130	1162.72	N.A.	20.80
90-150	2311.82	N.A.	41.40
90-180	3251.52	N.A.	58.20
110-180	2966.18	N.A.	53.10
0-180	5585.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.10
10-20	316.97
20-30	430.91
30-40	451.48
40-50	392.06
50-60	297.99
60-70	197.16
70-80	102.13
80-90	27.58
90-100	66.67
100-110	218.67
110-120	374.71
120-130	502.68
130-140	575.06
140-150	574.04
150-160	490.83
160-170	331.57
170-180	117.31

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-H-835-TG-RG-WCB-ITL85125-ITL90672.003.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

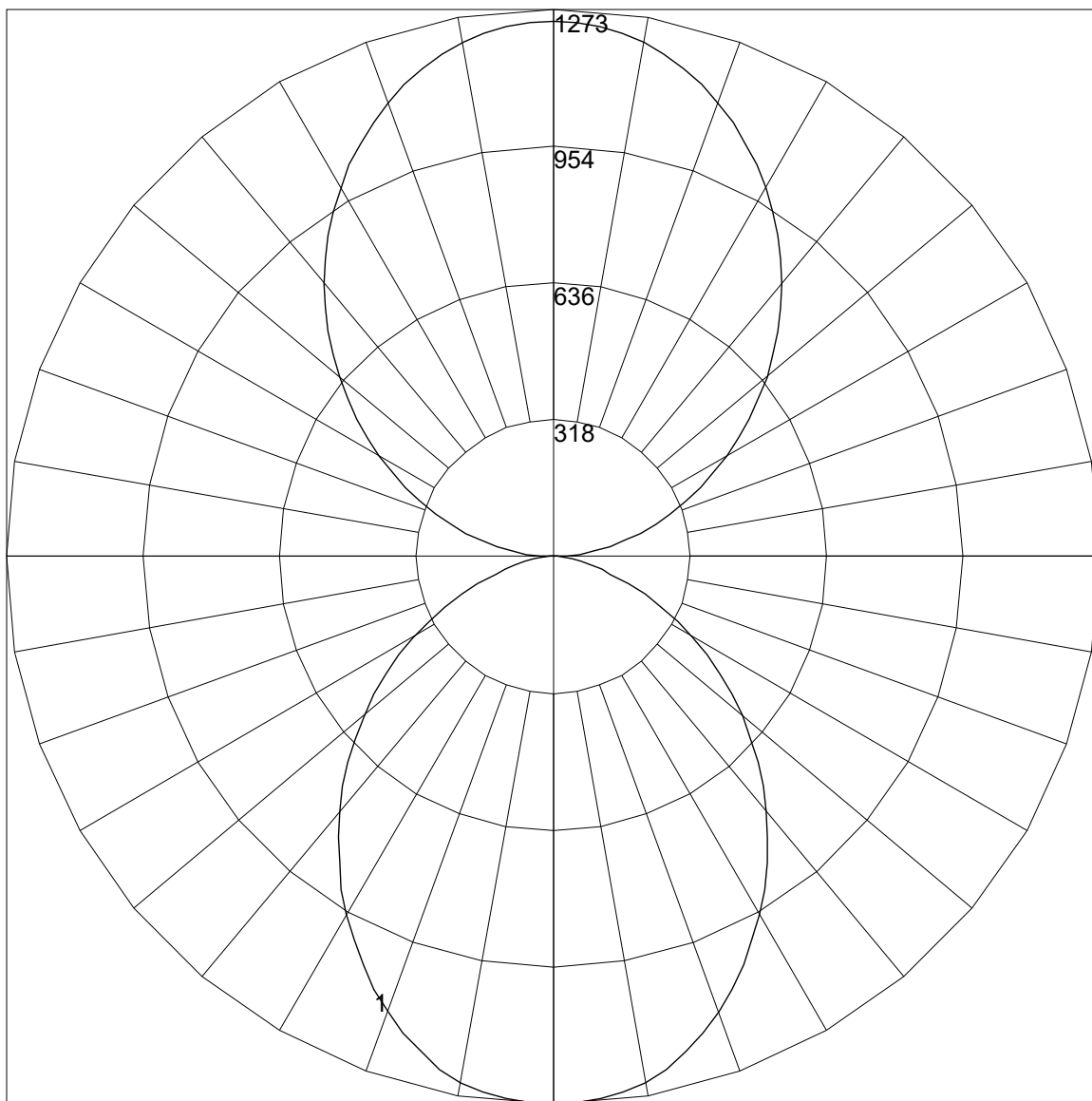
Effective Floor Cavity Reflectance 0.20

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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-H-H-835-TG-RG-WCB-ITL85125-ITL90672.003.IES

POLAR GRAPH



Maximum Candela = 1272.533 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (270 - 90)