

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-2-ID-RG-4FT-H-H-835-TG-F-ITL90352.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/04/18

[ISSUEDATE]05/17/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-RG-4ft-H-H-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 56.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 57.7 WATTS

[_ABSOLUTE]LUMENS]5625

[OTHER]see www.finelite.com for source file ITL90352. 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	5625
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	56.2
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)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14562	10237	8066
55	12991	8050	6238
65	11260	6091	4834
75	9399	4699	4289
85	6503	3523	3252

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1232.802	1232.802	1232.802	1232.802	1232.802
2.5	1230.469	1230.469	1228.913	1227.358	1226.580
5.0	1223.469	1221.913	1216.469	1211.802	1210.246
7.5	1213.357	1208.691	1197.024	1186.135	1182.246
10.0	1199.357	1189.246	1170.579	1151.912	1142.578
12.5	1181.468	1165.134	1136.356	1110.689	1096.688
15.0	1160.467	1134.800	1097.466	1060.910	1043.799
17.5	1134.800	1101.355	1052.354	1007.242	987.020
20.0	1106.800	1063.243	1004.131	949.686	927.907
22.5	1074.910	1022.798	952.797	892.129	865.684
25.0	1037.576	980.019	899.907	830.683	804.238
27.5	999.464	933.352	846.239	771.571	742.793
30.0	956.686	885.906	790.238	712.459	682.125
32.5	914.685	838.461	735.015	654.124	623.790
35.0	869.573	787.905	680.569	598.901	567.789
37.5	822.905	738.904	627.679	544.455	514.121
40.0	776.238	688.347	575.567	493.899	464.343
42.5	728.792	637.790	524.233	446.453	417.675
45.0	678.236	589.567	476.787	401.341	375.674
47.5	630.790	541.344	430.897	359.340	336.007
50.0	581.789	493.121	386.563	320.451	299.450
52.5	537.455	447.231	344.562	284.672	266.783
55.0	490.788	402.119	304.117	252.005	235.671
57.5	444.120	357.785	267.561	221.671	206.893
60.0	399.786	316.562	232.560	192.893	179.670
62.5	356.229	276.894	200.671	164.892	153.225
65.0	313.451	238.783	169.559	138.447	134.558
67.5	273.005	203.782	141.558	122.114	119.002
70.0	233.338	169.559	115.113	105.780	103.446
72.5	196.004	136.892	96.446	90.224	87.891
75.0	160.225	107.335	80.113	74.668	73.113
77.5	126.003	79.335	63.779	59.890	58.334
80.0	94.891	56.779	48.223	45.890	45.112
82.5	65.335	39.667	34.223	32.667	31.890
85.0	37.334	23.334	20.223	19.445	18.667
87.5	11.667	8.556	7.778	7.000	6.222
90.0	0.000	0.000	0.000	0.000	0.000
92.5	23.334	22.556	21.778	20.223	19.445
95.0	53.668	53.668	53.668	51.334	49.779
97.5	85.557	85.557	84.002	84.002	82.446
100.0	119.780	119.780	119.002	118.225	117.447
102.5	156.336	155.559	155.559	154.781	154.003
105.0	195.226	194.448	194.448	193.671	192.115
107.5	236.449	235.671	235.671	234.116	232.560
110.0	279.228	277.672	278.450	276.117	275.339
112.5	324.340	322.784	323.562	320.451	319.673
115.0	371.785	368.674	370.230	366.341	365.563
117.5	419.231	416.897	416.897	414.564	413.008
120.0	468.232	465.120	465.898	462.009	460.454
122.5	518.788	514.121	515.677	511.788	510.232
125.0	570.900	564.678	566.233	562.345	560.789
127.5	623.012	616.012	617.568	614.457	609.790
130.0	675.125	667.347	669.680	666.569	661.124
132.5	725.681	718.681	721.792	717.903	713.236

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-RG-4FT-H-H-835-TG-F-ITL90352.003.IES****CANDELA TABULATION - (Cont.)**

135.0	777.793	770.015	773.126	770.015	763.793
137.5	831.461	821.350	825.239	822.127	815.127
140.0	882.795	871.906	876.573	872.684	865.684
142.5	934.130	920.907	927.130	922.463	914.685
145.0	983.908	968.353	974.575	970.686	962.908
147.5	1029.020	1014.242	1021.243	1017.354	1009.576
150.0	1073.355	1058.577	1065.577	1060.910	1053.910
152.5	1114.578	1099.022	1107.578	1102.133	1095.911
155.0	1152.690	1137.911	1148.023	1141.023	1135.578
157.5	1188.468	1173.690	1183.024	1176.801	1172.134
160.0	1218.024	1206.357	1214.913	1209.468	1205.580
162.5	1246.803	1235.913	1242.914	1238.247	1234.358
165.0	1271.692	1262.358	1267.803	1264.692	1260.803
167.5	1291.915	1285.692	1288.803	1287.248	1283.359
170.0	1309.026	1305.137	1306.693	1305.137	1303.581
172.5	1320.693	1320.693	1320.693	1319.137	1319.137
175.0	1331.582	1330.804	1330.804	1330.026	1329.249
177.5	1337.027	1337.027	1337.027	1337.027	1337.027
180.0	1339.360	1339.360	1339.360	1339.360	1339.360

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	422.85	N.A.	7.50
0-30	839.90	N.A.	14.90
0-40	1275.34	N.A.	22.70
0-60	1957.03	N.A.	34.80
0-80	2251.05	N.A.	40.00
0-90	2277.5	N.A.	40.50
10-90	2162.81	N.A.	38.50
20-40	852.49	N.A.	15.20
20-50	1237.81	N.A.	22.00
40-70	874.92	N.A.	15.60
60-80	294.02	N.A.	5.20
70-80	100.79	N.A.	1.80
80-90	26.44	N.A.	0.50
90-110	265.61	N.A.	4.70
90-120	631.12	N.A.	11.20
90-130	1136.5	N.A.	20.20
90-150	2338.77	N.A.	41.60
90-180	3347.29	N.A.	59.50
110-180	3081.68	N.A.	54.80
0-180	5624.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.69
10-20	308.17
20-30	417.04
30-40	435.45
40-50	385.32
50-60	296.37
60-70	193.23
70-80	100.79
80-90	26.44
90-100	59.28
100-110	206.33
110-120	365.50
120-130	505.38
130-140	594.98
140-150	607.29
150-160	525.78
160-170	356.52
170-180	126.22

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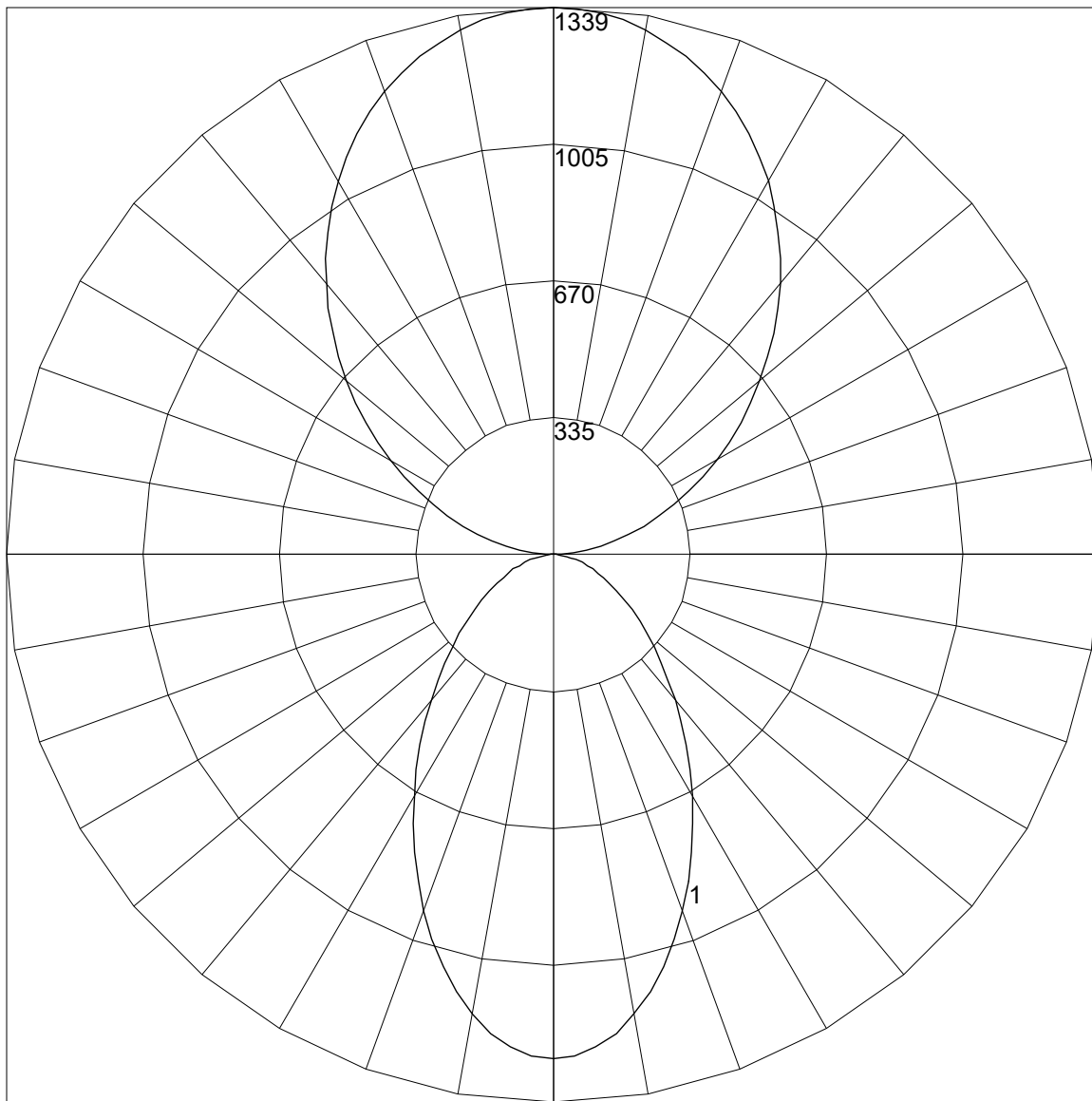
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	78	78	78	62	62	62	47	47	47	40
1	96	92	88	85	87	84	81	78	69	67	65	55	54	53	43	42	41	35
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	38	37	35	30
3	81	72	65	59	73	66	60	55	54	50	46	44	41	38	34	32	31	26
4	74	64	56	50	67	58	52	47	49	44	40	39	36	33	31	29	27	23
5	68	57	49	44	62	52	46	41	44	39	35	36	32	29	28	26	24	20
6	63	51	44	38	57	47	40	36	40	34	31	32	29	26	26	23	21	18
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	21	19	16
8	54	42	35	30	49	39	32	28	33	28	24	27	23	21	22	19	17	15
9	50	39	31	27	46	36	29	25	30	25	22	25	21	19	20	18	16	13
10	47	35	29	24	43	33	27	23	28	23	20	23	20	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 1339.36 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)