

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-S-835-TG-F-ITL90352.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352.007 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-S-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 42.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 44.7 WATTS

[_ABSOLUTE]LUMENS]4546

[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	4546
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	42.4
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)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7663	5387	4244
55	6836	4236	3283
65	5925	3205	2544
75	4946	2473	2257
85	3422	1854	1711

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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	648.728	648.728	648.728	648.728	648.728
2.5	647.500	647.500	646.681	645.863	645.454
5.0	643.816	642.998	640.133	637.677	636.858
7.5	638.495	636.040	629.900	624.170	622.124
10.0	631.128	625.808	615.985	606.162	601.250
12.5	621.715	613.119	597.976	584.469	577.102
15.0	610.664	597.157	577.511	558.274	549.270
17.5	597.157	579.558	553.772	530.033	519.392
20.0	582.423	559.502	528.396	499.746	488.285
22.5	565.642	538.219	501.383	469.458	455.542
25.0	545.995	515.708	473.551	437.124	423.208
27.5	525.940	491.151	445.310	406.018	390.874
30.0	503.429	466.184	415.841	374.911	358.949
32.5	481.327	441.217	386.781	344.215	328.252
35.0	457.589	414.613	358.130	315.155	298.783
37.5	433.031	388.827	330.299	286.504	270.542
40.0	408.473	362.223	302.876	259.901	244.347
42.5	383.507	335.620	275.863	234.934	219.790
45.0	356.903	310.243	250.896	211.195	197.688
47.5	331.936	284.867	226.748	189.093	176.814
50.0	306.151	259.491	203.418	168.628	157.577
52.5	282.821	235.343	181.316	149.801	140.387
55.0	258.263	211.604	160.033	132.611	124.016
57.5	233.706	188.274	140.797	116.648	108.872
60.0	210.376	166.582	122.378	101.504	94.546
62.5	187.456	145.708	105.597	86.770	80.630
65.0	164.945	125.653	89.226	72.854	70.808
67.5	143.661	107.234	74.491	64.259	62.622
70.0	122.788	89.226	60.575	55.664	54.436
72.5	103.142	72.035	50.752	47.478	46.250
75.0	84.314	56.482	42.157	39.292	38.473
77.5	66.305	41.748	33.562	31.515	30.697
80.0	49.934	29.878	25.376	24.148	23.739
82.5	34.380	20.874	18.009	17.190	16.781
85.0	19.646	12.279	10.642	10.232	9.823
87.5	6.139	4.502	4.093	3.684	3.274
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	370.229	366.341	365.563
117.5	419.231	416.897	416.897	414.564	413.008
120.0	468.231	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	562.344	560.789
127.5	623.012	616.012	617.568	614.457	609.790
130.0	675.125	667.346	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-S-835-TG-F-ITL90352.007.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	968.352	974.575	970.686	962.908
147.5	1029.020	1014.242	1021.242	1017.354	1009.576
150.0	1073.354	1058.576	1065.577	1060.910	1053.910
152.5	1114.578	1099.022	1107.577	1102.133	1095.910
155.0	1152.689	1137.911	1148.023	1141.023	1135.578
157.5	1188.468	1173.690	1183.023	1176.801	1172.134
160.0	1218.024	1206.357	1214.913	1209.468	1205.579
162.5	1246.802	1235.913	1242.914	1238.247	1234.358
165.0	1271.692	1262.358	1267.803	1264.692	1260.803
167.5	1291.914	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	1329.248
177.5	1337.026	1337.026	1337.026	1337.026	1337.026
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	222.51	N.A.	4.90
0-30	441.97	N.A.	9.70
0-40	671.11	N.A.	14.80
0-60	1029.83	N.A.	22.70
0-80	1184.55	N.A.	26.10
0-90	1198.47	N.A.	26.40
10-90	1138.12	N.A.	25.00
20-40	448.60	N.A.	9.90
20-50	651.36	N.A.	14.30
40-70	460.40	N.A.	10.10
60-80	154.72	N.A.	3.40
70-80	53.04	N.A.	1.20
80-90	13.91	N.A.	0.30
90-110	265.61	N.A.	5.80
90-120	631.12	N.A.	13.90
90-130	1136.5	N.A.	25.00
90-150	2338.77	N.A.	51.40
90-180	3347.29	N.A.	73.60
110-180	3081.68	N.A.	67.80
0-180	4545.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

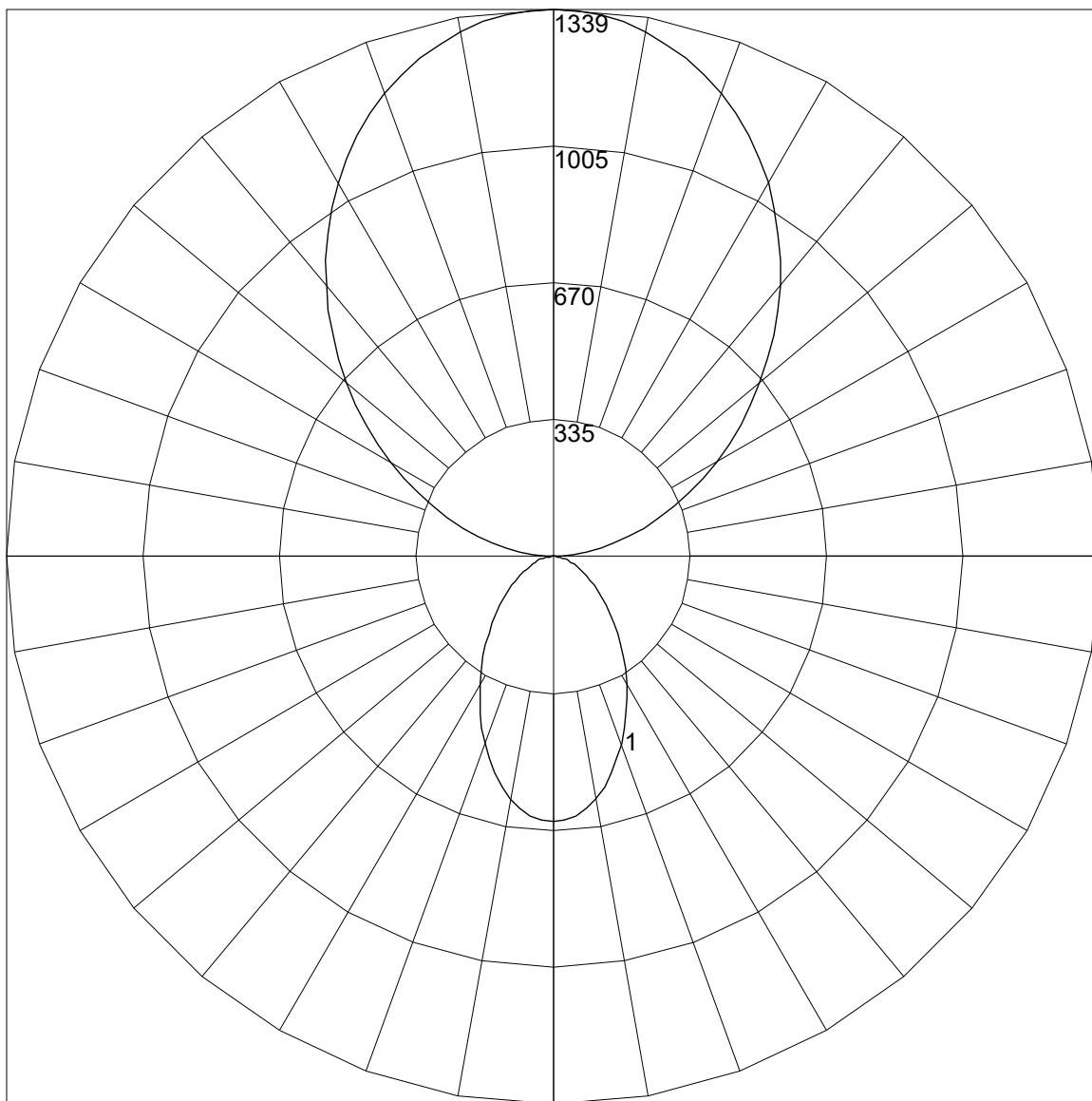
Zone	Lumens
0-10	60.35
10-20	162.16
20-30	219.46
30-40	229.14
40-50	202.76
50-60	155.96
60-70	101.68
70-80	53.04
80-90	13.91
90-100	59.28
100-110	206.33
110-120	365.50
120-130	505.38
130-140	594.98
140-150	607.29
150-160	525.78
160-170	356.52
170-180	126.22

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	70	70	70	52	52	52	34	34	34	26
1	93	89	85	82	83	79	76	74	62	60	58	46	45	43	31	30	30	23
2	85	78	72	67	75	70	65	61	55	51	49	41	38	37	28	26	25	20
3	77	69	62	56	69	62	56	51	48	44	41	36	34	31	25	23	22	17
4	71	61	53	48	63	55	48	44	43	39	35	32	29	27	22	21	19	15
5	65	54	47	41	58	49	42	37	39	34	30	29	26	24	20	18	17	13
6	60	49	41	36	53	44	37	33	35	30	27	26	23	21	18	17	15	12
7	55	44	36	31	49	40	33	29	32	27	23	24	21	18	17	15	13	11
8	51	40	33	27	46	36	30	25	29	24	21	22	19	16	16	14	12	10
9	48	36	29	24	43	33	27	22	26	22	19	20	17	15	14	12	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	13	11	10	8

POLAR GRAPH



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