

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-B-835-TG-F-ITL90352.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90352.008 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-B-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.3 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.3 WATTS

[_ABSOLUTE]LUMENS]4854

[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	4854
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	46.3
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	9636	6774	5337
55	8596	5326	4128
65	7451	4030	3198
75	6219	3109	2838
85	4303	2331	2152

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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	815.731	815.731	815.731	815.731	815.731
2.5	814.188	814.188	813.158	812.129	811.614
5.0	809.556	808.526	804.924	801.836	800.806
7.5	802.865	799.777	792.057	784.852	782.279
10.0	793.601	786.911	774.559	762.207	756.031
12.5	781.764	770.956	751.914	734.930	725.667
15.0	767.868	750.885	726.181	701.992	690.670
17.5	750.885	728.755	696.331	666.481	653.100
20.0	732.357	703.536	664.422	628.396	613.986
22.5	711.256	676.774	630.455	590.312	572.813
25.0	686.553	648.468	595.458	549.654	532.155
27.5	661.334	617.588	559.947	510.540	491.498
30.0	633.028	586.194	522.892	471.426	451.354
32.5	605.237	554.800	486.351	432.827	412.755
35.0	575.387	521.348	450.325	396.286	375.700
37.5	544.507	488.924	415.328	360.260	340.188
40.0	513.628	455.471	380.846	326.807	307.250
42.5	482.234	422.019	346.879	295.413	276.371
45.0	448.781	390.110	315.485	265.563	248.579
47.5	417.387	358.201	285.120	237.772	222.332
50.0	384.964	326.293	255.785	212.039	198.143
52.5	355.628	295.928	227.993	188.364	176.527
55.0	324.749	266.078	201.231	166.749	155.941
57.5	293.869	236.742	177.042	146.677	136.899
60.0	264.534	209.465	153.882	127.635	118.886
62.5	235.713	183.218	132.781	109.107	101.387
65.0	207.407	158.000	112.195	91.609	89.036
67.5	180.645	134.840	93.668	80.801	78.743
70.0	154.397	112.195	76.169	69.993	68.449
72.5	129.694	90.580	63.818	59.700	58.156
75.0	106.019	71.023	53.010	49.407	48.378
77.5	83.374	52.495	42.202	39.629	38.599
80.0	62.788	37.570	31.909	30.365	29.850
82.5	43.231	26.247	22.645	21.616	21.101
85.0	24.703	15.440	13.381	12.866	12.352
87.5	7.720	5.661	5.147	4.632	4.117
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-B-835-TG-F-ITL90352.008.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	279.80	N.A.	5.80
0-30	555.75	N.A.	11.40
0-40	843.88	N.A.	17.40
0-60	1294.94	N.A.	26.70
0-80	1489.5	N.A.	30.70
0-90	1506.99	N.A.	31.00
10-90	1431.11	N.A.	29.50
20-40	564.08	N.A.	11.60
20-50	819.04	N.A.	16.90
40-70	578.92	N.A.	11.90
60-80	194.55	N.A.	4.00
70-80	66.69	N.A.	1.40
80-90	17.50	N.A.	0.40
90-110	265.61	N.A.	5.50
90-120	631.12	N.A.	13.00
90-130	1136.5	N.A.	23.40
90-150	2338.77	N.A.	48.20
90-180	3347.29	N.A.	69.00
110-180	3081.68	N.A.	63.50
0-180	4854.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.89
10-20	203.91
20-30	275.95
30-40	288.13
40-50	254.96
50-60	196.11
60-70	127.86
70-80	66.69
80-90	17.50
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

IES INDOOR REPORT

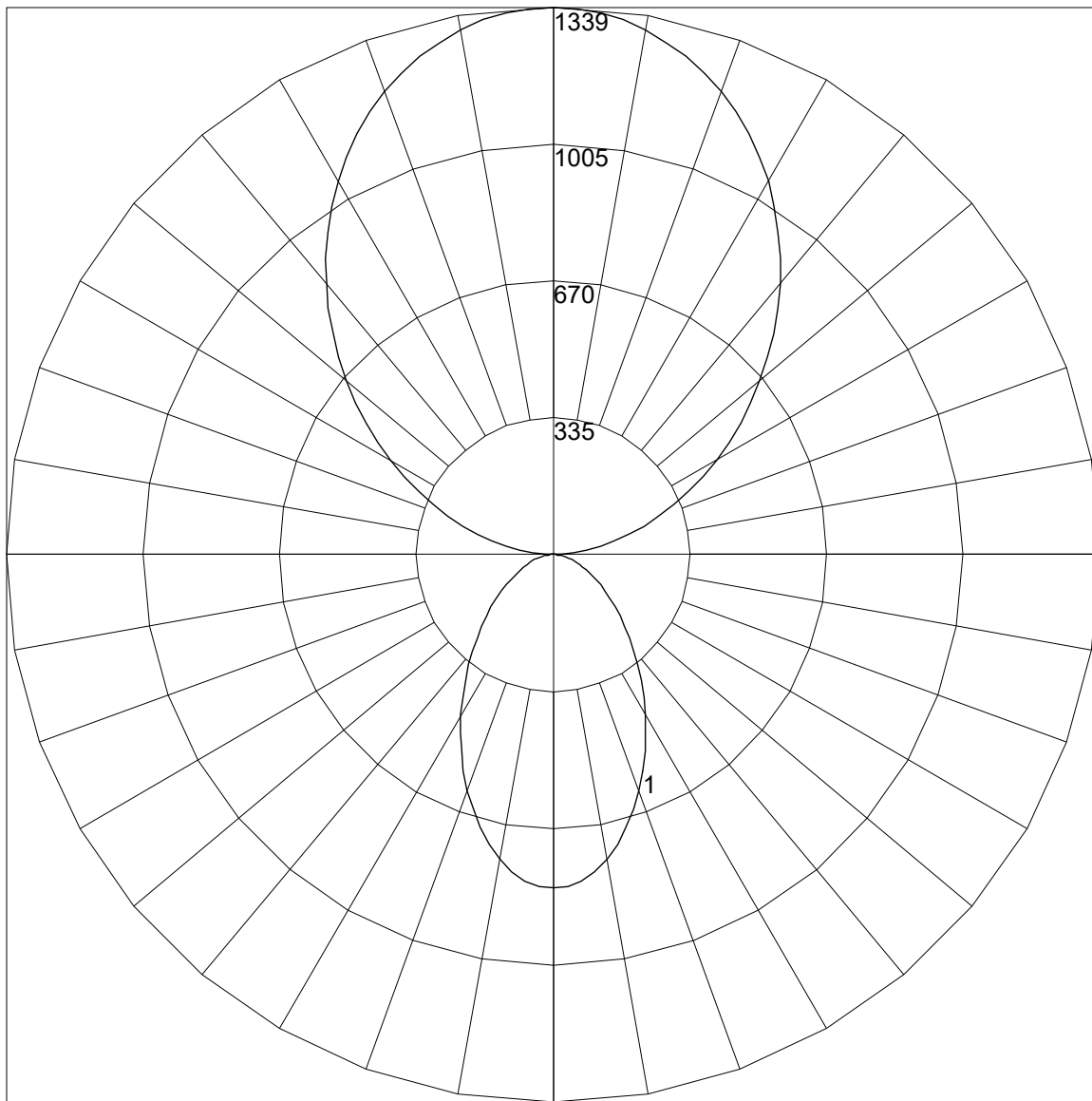
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	33	27
2	86	79	73	68	77	71	66	62	57	53	51	43	41	39	31	30	29	23
3	78	70	63	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	62	54	49	64	56	50	45	45	40	37	35	32	29	25	23	22	18
5	66	55	48	42	59	50	43	39	40	36	32	31	28	25	23	21	19	16
6	61	50	42	36	55	45	38	34	36	32	28	28	25	22	21	19	17	14
7	56	45	37	32	51	41	34	29	33	28	25	26	22	20	19	17	15	12
8	52	41	33	28	47	37	31	26	30	25	22	24	20	18	18	15	14	11
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	16	14	13	10
10	45	34	27	23	41	31	25	21	25	21	18	20	17	15	15	13	12	9

POLAR GRAPH



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