

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-B-S-835-TG-F-ITL90353.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353.010 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]04/03/18

[ISSUEDATE]05/18/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-4-ID-RG-4ft-B-S-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 35.2 WATTS

[_ABSOLUTE]LUMENS]3713

[OTHER]see www.finelite.com for source file ITL90353. 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	3713
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	32.5
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)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4278	3908	3623
55	3987	3438	3069
65	3626	2841	2373
75	3161	1956	1490
85	2309	1270	1193

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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	616.803	616.803	616.803	616.803	616.803
2.5	615.575	615.166	615.575	615.575	615.575
5.0	612.710	612.301	612.301	612.710	613.119
7.5	608.208	607.799	607.799	607.799	607.389
10.0	602.478	600.431	601.250	600.022	598.385
12.5	594.292	591.836	591.836	589.381	586.516
15.0	584.878	580.785	580.376	577.102	573.009
17.5	573.418	568.507	566.460	561.958	557.865
20.0	559.911	554.181	550.907	544.768	541.084
22.5	545.177	539.038	533.717	526.350	522.257
25.0	529.215	522.257	515.299	506.294	502.201
27.5	512.024	504.248	495.243	485.420	480.918
30.0	493.197	485.420	474.779	463.728	458.407
32.5	473.551	465.774	453.086	440.808	434.259
35.0	453.905	444.900	430.985	417.478	410.520
37.5	433.440	423.208	407.655	392.511	386.372
40.0	412.157	401.515	383.916	368.772	361.814
42.5	390.874	379.004	360.996	344.215	337.257
45.0	369.181	356.493	337.257	319.248	312.699
47.5	347.489	333.573	313.518	294.690	288.142
50.0	324.978	310.243	288.960	269.723	263.175
52.5	302.058	286.914	264.812	245.575	239.027
55.0	279.137	263.993	240.664	221.427	214.878
57.5	256.626	240.664	216.925	197.688	191.139
60.0	233.706	217.334	193.186	173.949	167.400
62.5	210.785	194.004	169.447	150.619	144.480
65.0	187.046	171.084	146.527	128.108	122.378
67.5	164.535	148.164	123.606	106.416	100.686
70.0	142.024	125.653	101.914	85.133	80.221
72.5	119.923	103.960	81.449	65.896	60.985
75.0	99.867	83.086	61.803	49.115	47.069
77.5	79.403	63.440	44.204	39.292	38.883
80.0	59.757	44.613	31.925	30.697	30.697
82.5	42.566	27.013	22.920	22.102	22.102
85.0	24.558	14.735	13.507	13.097	12.688
87.5	7.777	4.912	4.502	4.502	4.093
90.0	0.000	0.000	0.000	0.000	0.000
92.5	15.440	16.984	18.528	19.042	19.042
95.0	38.599	40.143	41.687	43.231	43.746
97.5	62.274	64.332	66.905	68.964	69.479
100.0	87.492	89.550	92.638	95.212	95.212
102.5	113.739	115.798	119.400	122.488	122.488
105.0	142.045	144.619	147.707	150.795	150.795
107.5	171.381	173.439	176.527	180.130	179.615
110.0	201.746	203.290	206.377	209.465	209.465
112.5	232.625	234.169	237.257	240.345	239.830
115.0	264.534	265.563	269.166	271.739	270.710
117.5	296.442	296.442	300.560	301.589	302.104
120.0	328.866	328.866	331.954	333.498	334.012
122.5	361.804	361.804	363.863	365.407	366.951
125.0	393.713	393.198	395.257	397.315	398.345
127.5	425.621	424.592	427.165	428.709	430.768
130.0	457.530	455.986	458.559	460.618	461.647
132.5	487.895	485.836	488.924	491.497	492.012

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-S-835-TG-F-ITL90353.010.IES****CANDELA TABULATION - (Cont.)**

135.0	519.804	516.201	520.318	522.892	522.892
137.5	550.683	546.051	550.683	552.227	552.742
140.0	579.504	574.872	581.048	581.048	582.077
142.5	609.354	603.693	609.869	609.869	608.839
145.0	638.689	631.484	638.175	637.660	636.631
147.5	665.966	658.246	664.937	664.422	662.364
150.0	691.184	683.465	690.155	689.126	688.096
152.5	715.373	708.168	714.859	713.315	711.771
155.0	738.018	731.328	737.504	736.474	733.901
157.5	758.605	751.914	758.090	755.517	753.973
160.0	778.161	772.500	777.647	775.074	772.500
162.5	795.145	789.999	794.116	791.543	789.999
165.0	810.070	805.953	808.526	806.982	805.438
167.5	822.937	819.849	821.393	820.363	819.334
170.0	833.230	831.686	832.201	831.686	830.657
172.5	840.950	840.950	840.950	839.920	839.920
175.0	847.126	847.126	847.126	846.611	846.611
177.5	851.243	851.243	851.243	851.243	851.243
180.0	852.272	852.272	852.272	852.272	852.272

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-B-S-835-TG-F-ITL90353.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	221.15	N.A.	6.00
0-30	458.04	N.A.	12.30
0-40	727.57	N.A.	19.60
0-60	1206.16	N.A.	32.50
0-80	1427.64	N.A.	38.50
0-90	1445.34	N.A.	38.90
10-90	1387.24	N.A.	37.40
20-40	506.42	N.A.	13.60
20-50	767.47	N.A.	20.70
40-70	627.37	N.A.	16.90
60-80	221.47	N.A.	6.00
70-80	72.70	N.A.	2.00
80-90	17.71	N.A.	0.50
90-110	202.93	N.A.	5.50
90-120	468.61	N.A.	12.60
90-130	822.25	N.A.	22.10
90-150	1621.12	N.A.	43.70
90-180	2267.55	N.A.	61.10
110-180	2064.62	N.A.	55.60
0-180	3712.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.10
10-20	163.05
20-30	236.89
30-40	269.53
40-50	261.05
50-60	217.54
60-70	148.78
70-80	72.70
80-90	17.71
90-100	46.82
100-110	156.11
110-120	265.68
120-130	353.64
130-140	401.13
140-150	397.74
150-160	338.44
160-170	227.62
170-180	80.37

IES INDOOR REPORT

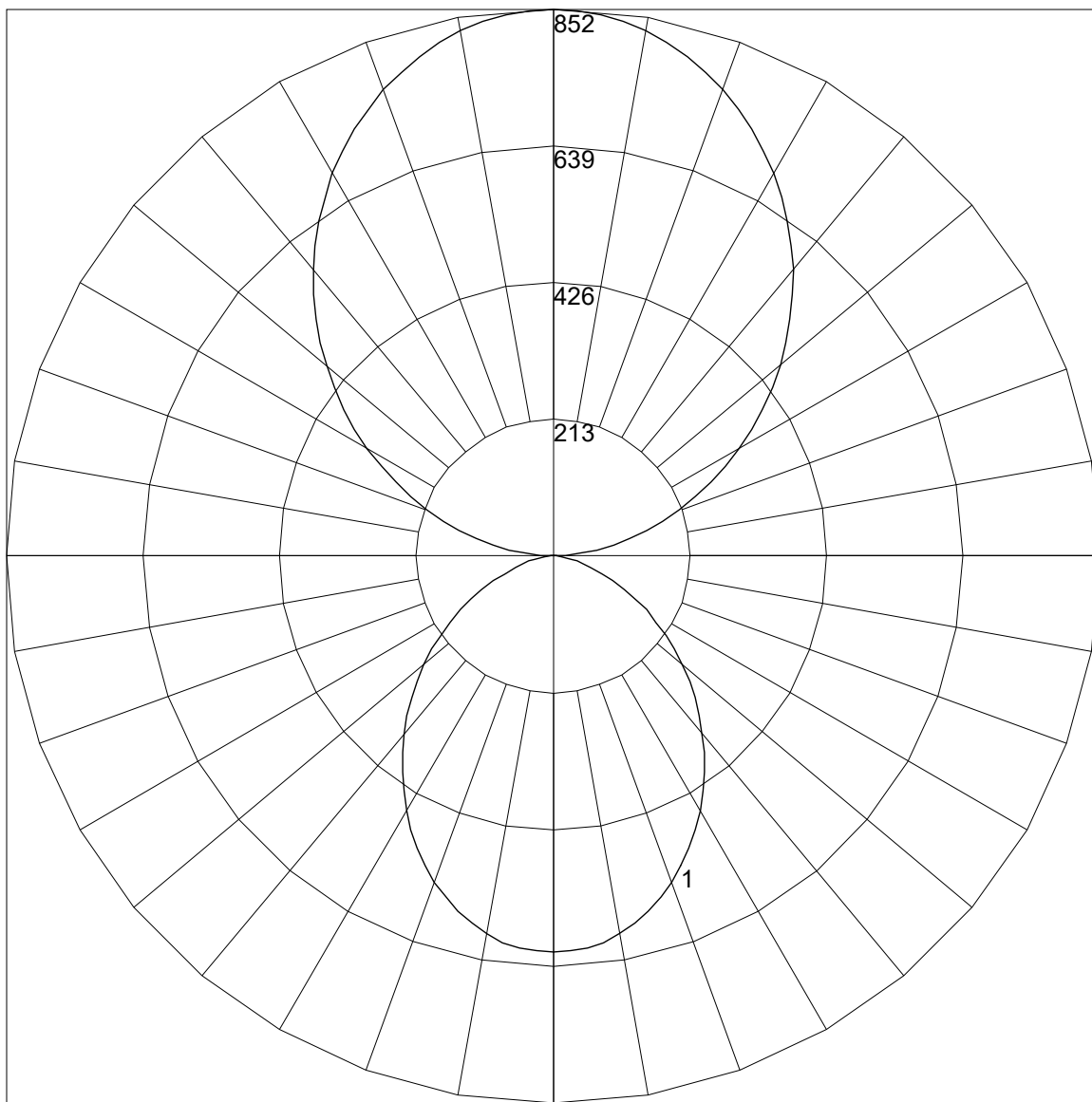
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	14	13	11

POLAR GRAPH



Maximum Candela = 852.272 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)