

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-B-835-TG-F-ITL90353.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353.008 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-H-B-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 46.3 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.2 WATTS

[_ABSOLUTE]LUMENS]5244

[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	5244
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5379	4914	4556
55	5014	4323	3860
65	4560	3572	2983
75	3975	2460	1874
85	2903	1597	1500

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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	775.588	775.588	775.588	775.588	775.588
2.5	774.044	773.530	774.044	774.044	774.044
5.0	770.442	769.927	769.927	770.442	770.956
7.5	764.780	764.266	764.266	764.266	763.751
10.0	757.575	755.002	756.031	754.487	752.429
12.5	747.282	744.194	744.194	741.106	737.504
15.0	735.445	730.298	729.784	725.667	720.520
17.5	721.035	714.859	712.285	706.624	701.478
20.0	704.051	696.846	692.728	685.009	680.377
22.5	685.523	677.803	671.113	661.849	656.702
25.0	665.452	656.702	647.953	636.631	631.484
27.5	643.836	634.057	622.735	610.383	604.722
30.0	620.162	610.383	597.002	583.106	576.416
32.5	595.458	585.680	569.725	554.286	546.051
35.0	570.755	559.432	541.934	524.950	516.201
37.5	545.022	532.155	512.598	493.556	485.836
40.0	518.260	504.879	482.748	463.706	454.957
42.5	491.497	476.572	453.928	432.827	424.077
45.0	464.221	448.266	424.077	401.433	393.198
47.5	436.944	419.446	394.227	370.553	362.319
50.0	408.638	390.110	363.348	339.159	330.924
52.5	379.817	360.775	332.983	308.794	300.560
55.0	350.996	331.954	302.618	278.429	270.195
57.5	322.690	302.618	272.768	248.579	240.345
60.0	293.869	273.283	242.918	218.729	210.495
62.5	265.048	243.947	213.068	189.394	181.674
65.0	235.198	215.127	184.247	161.088	153.882
67.5	206.892	186.306	155.426	133.811	126.606
70.0	178.586	158.000	128.150	107.049	100.873
72.5	150.795	130.723	102.417	82.860	76.684
75.0	125.576	104.475	77.713	61.759	59.186
77.5	99.843	79.772	55.583	49.407	48.892
80.0	75.140	56.098	40.143	38.599	38.599
82.5	53.524	33.967	28.821	27.791	27.791
85.0	30.879	18.528	16.984	16.469	15.954
87.5	9.778	6.176	5.661	5.661	5.147
90.0	0.000	0.000	0.000	0.000	0.000
92.5	23.334	25.667	28.001	28.778	28.778
95.0	58.334	60.668	63.001	65.335	66.112
97.5	94.113	97.224	101.113	104.224	105.002
100.0	132.225	135.336	140.003	143.892	143.892
102.5	171.892	175.003	180.448	185.115	185.115
105.0	214.671	218.560	223.227	227.893	227.893
107.5	259.005	262.116	266.783	272.228	271.450
110.0	304.895	307.228	311.895	316.562	316.562
112.5	351.563	353.896	358.563	363.229	362.452
115.0	399.786	401.341	406.786	410.675	409.119
117.5	448.009	448.009	454.231	455.787	456.565
120.0	497.010	497.010	501.677	504.010	504.788
122.5	546.789	546.789	549.900	552.233	554.567
125.0	595.012	594.234	597.345	600.456	602.012
127.5	643.235	641.679	645.568	647.902	651.013
130.0	691.458	689.125	693.014	696.125	697.680
132.5	737.348	734.237	738.904	742.792	743.570

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CANDELA TABULATION - (Cont.)

135.0	785.571	780.127	786.349	790.238	790.238
137.5	832.239	825.239	832.239	834.572	835.350
140.0	875.795	868.795	878.128	878.128	879.684
142.5	920.907	912.351	921.685	921.685	920.129
145.0	965.241	954.352	964.464	963.686	962.130
147.5	1006.464	994.797	1004.909	1004.131	1001.020
150.0	1044.576	1032.909	1043.021	1041.465	1039.909
152.5	1081.132	1070.243	1080.355	1078.021	1075.688
155.0	1115.355	1105.244	1114.578	1113.022	1109.133
157.5	1146.467	1136.356	1145.689	1141.800	1139.467
160.0	1176.023	1167.468	1175.245	1171.356	1167.468
162.5	1201.690	1193.912	1200.135	1196.246	1193.912
165.0	1224.246	1218.024	1221.913	1219.580	1217.246
167.5	1243.691	1239.024	1241.358	1239.802	1238.247
170.0	1259.247	1256.914	1257.692	1256.914	1255.358
172.5	1270.914	1270.914	1270.914	1269.358	1269.358
175.0	1280.248	1280.248	1280.248	1279.470	1279.470
177.5	1286.470	1286.470	1286.470	1286.470	1286.470
180.0	1288.025	1288.025	1288.025	1288.025	1288.025

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	278.08	N.A.	5.30
0-30	575.95	N.A.	11.00
0-40	914.87	N.A.	17.40
0-60	1516.67	N.A.	28.90
0-80	1795.16	N.A.	34.20
0-90	1817.42	N.A.	34.70
10-90	1744.37	N.A.	33.30
20-40	636.79	N.A.	12.10
20-50	965.04	N.A.	18.40
40-70	788.88	N.A.	15.00
60-80	278.49	N.A.	5.30
70-80	91.41	N.A.	1.70
80-90	22.26	N.A.	0.40
90-110	306.69	N.A.	5.80
90-120	708.20	N.A.	13.50
90-130	1242.65	N.A.	23.70
90-150	2449.98	N.A.	46.70
90-180	3426.92	N.A.	65.30
110-180	3120.23	N.A.	59.50
0-180	5244.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.06
10-20	205.03
20-30	297.87
30-40	338.92
40-50	328.25
50-60	273.55
60-70	187.08
70-80	91.41
80-90	22.26
90-100	70.77
100-110	235.92
110-120	401.51
120-130	534.44
130-140	606.23
140-150	601.10
150-160	511.48
160-170	344.00
170-180	121.46

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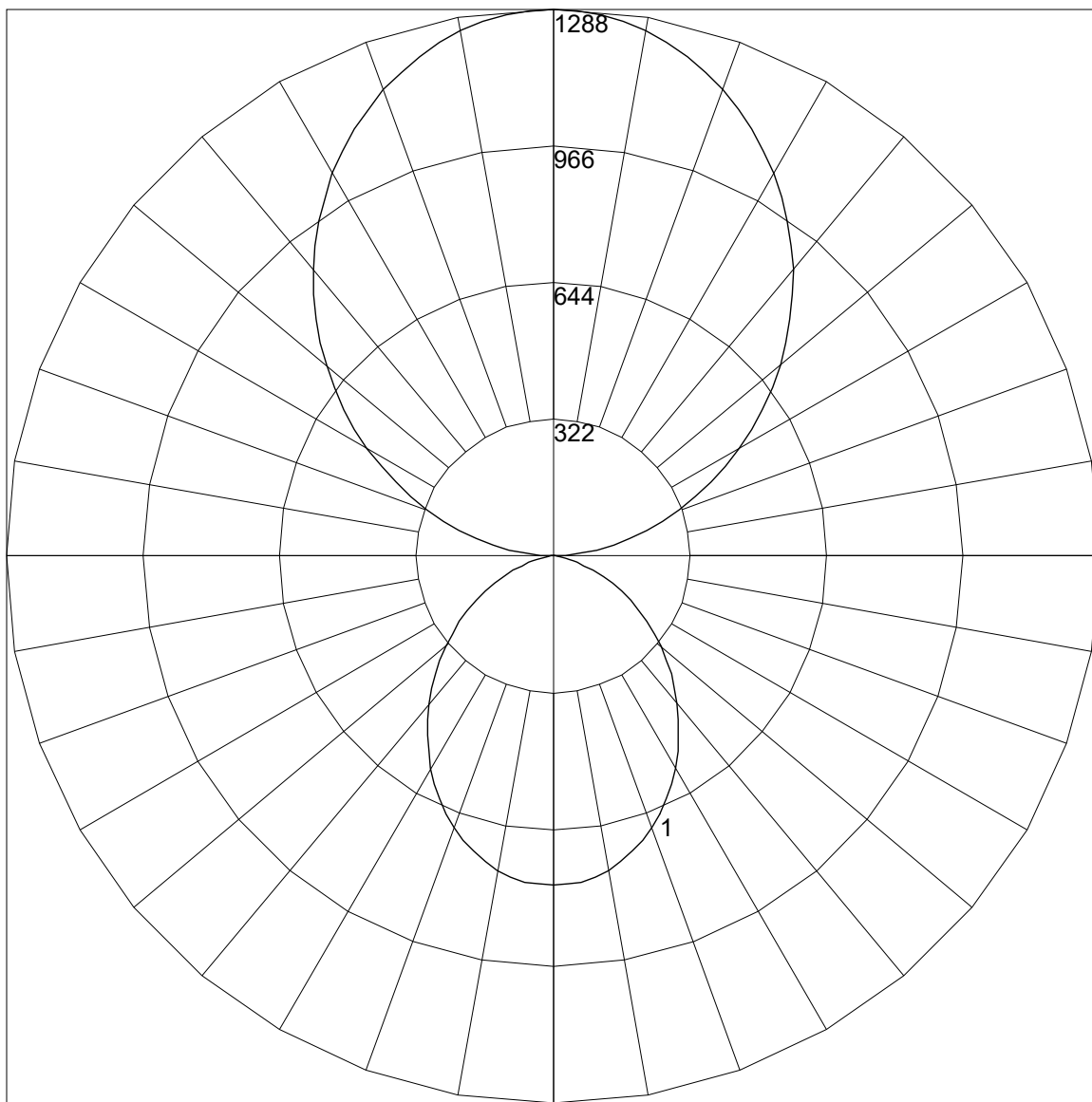
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	93	93	93	93	75	75	75	58	58	58	42	42	42	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	37	37	36	30
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	33	32	31	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	21
4	72	62	54	48	65	56	50	44	45	41	37	36	32	30	26	24	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	36	55	45	38	33	37	32	28	29	25	23	22	19	17	14
7	56	44	37	31	51	41	34	29	33	28	24	26	23	20	20	17	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14	11
9	48	37	29	25	44	34	27	23	28	23	19	22	19	16	17	14	13	10
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 1288.025 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)