

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-S-B-835-TG-F-ITL90353.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90353.013 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-S-B-835-TG-F

[_INPUT_ELECTRICAL]120.0 VOLTS, 32.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 35.2 WATTS

[_ABSOLUTE]LUMENS]3621

[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	3621
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	32.5
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)	0.33 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

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	12.279	13.507	14.735	15.144	15.144
95.0	30.697	31.925	33.153	34.381	34.790
97.5	49.524	51.162	53.208	54.845	55.254
100.0	69.580	71.217	73.673	75.719	75.719
102.5	90.454	92.091	94.956	97.412	97.412
105.0	112.965	115.011	117.467	119.923	119.923
107.5	136.294	137.931	140.387	143.252	142.843
110.0	160.442	161.670	164.126	166.582	166.582
112.5	185.000	186.228	188.684	191.139	190.730
115.0	210.376	211.195	214.060	216.106	215.288
117.5	235.752	235.752	239.027	239.845	240.254
120.0	261.538	261.538	263.993	265.221	265.631
122.5	287.732	287.732	289.369	290.597	291.825
125.0	313.108	312.699	314.336	315.973	316.792
127.5	338.485	337.666	339.712	340.940	342.577
130.0	363.861	362.633	364.679	366.316	367.135
132.5	388.009	386.372	388.827	390.874	391.283

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-S-B-835-TG-F-ITL90353.013.IES****CANDELA TABULATION - (Cont.)**

135.0	413.385	410.520	413.794	415.841	415.841
137.5	437.942	434.259	437.942	439.170	439.580
140.0	460.863	457.179	462.091	462.091	462.909
142.5	484.602	480.100	485.011	485.011	484.192
145.0	507.931	502.201	507.522	507.113	506.294
147.5	529.624	523.484	528.805	528.396	526.759
150.0	549.679	543.540	548.861	548.042	547.223
152.5	568.916	563.186	568.507	567.279	566.051
155.0	586.925	581.604	586.516	585.697	583.650
157.5	603.296	597.976	602.887	600.841	599.613
160.0	618.850	614.347	618.440	616.394	614.347
162.5	632.356	628.263	631.538	629.491	628.263
165.0	644.226	640.951	642.998	641.770	640.542
167.5	654.458	652.002	653.230	652.411	651.593
170.0	662.644	661.416	661.825	661.416	660.597
172.5	668.783	668.783	668.783	667.965	667.965
175.0	673.695	673.695	673.695	673.285	673.285
177.5	676.969	676.969	676.969	676.969	676.969
180.0	677.788	677.788	677.788	677.788	677.788

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-S-B-835-TG-F-ITL90353.013.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	278.08	N.A.	7.70
0-30	575.95	N.A.	15.90
0-40	914.87	N.A.	25.30
0-60	1516.67	N.A.	41.90
0-80	1795.16	N.A.	49.60
0-90	1817.42	N.A.	50.20
10-90	1744.37	N.A.	48.20
20-40	636.79	N.A.	17.60
20-50	965.04	N.A.	26.70
40-70	788.88	N.A.	21.80
60-80	278.49	N.A.	7.70
70-80	91.41	N.A.	2.50
80-90	22.26	N.A.	0.60
90-110	161.39	N.A.	4.50
90-120	372.67	N.A.	10.30
90-130	653.91	N.A.	18.10
90-150	1289.23	N.A.	35.60
90-180	1803.32	N.A.	49.80
110-180	1641.93	N.A.	45.30
0-180	3620.74	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	37.24
100-110	124.15
110-120	211.29
120-130	281.24
130-140	319.01
140-150	316.31
150-160	269.15
160-170	181.02
170-180	63.92

IES INDOOR REPORT

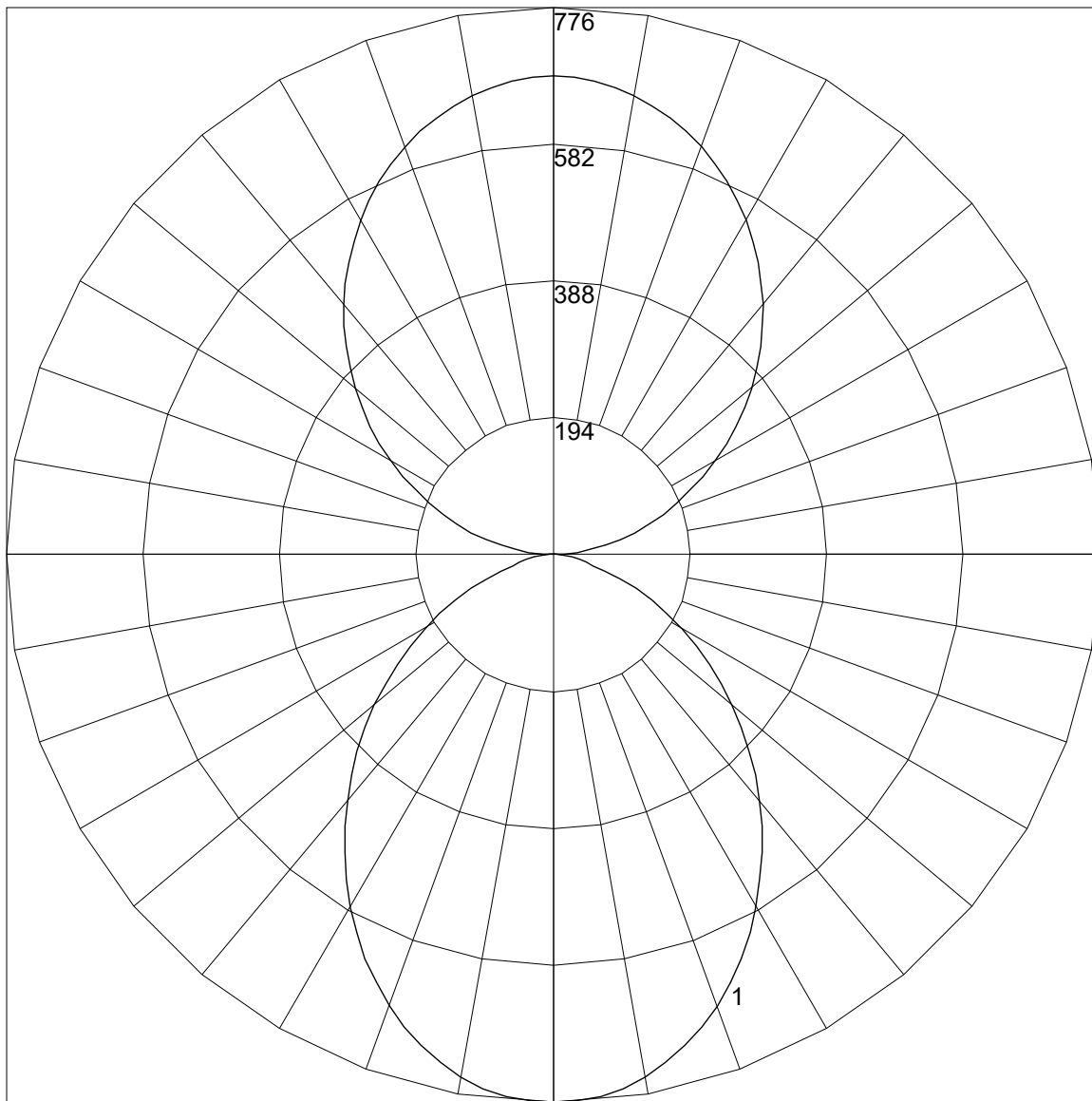
PHOTOMETRIC FILENAME : HP-4-ID-RG-4FT-S-B-835-TG-F-ITL90353.013.IES

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	87	90	87	84	81	74	71	69	61	60	58	50	49	48	43
2	90	82	76	71	82	76	71	67	65	61	58	54	52	49	45	43	41	36
3	82	73	65	60	75	67	61	56	57	53	49	48	45	42	40	37	35	31
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	30	27
5	69	57	49	44	63	53	46	41	46	40	36	39	35	31	32	29	27	23
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24	21
7	59	47	39	33	54	44	37	32	38	32	28	32	28	24	27	24	21	18
8	55	42	35	30	50	40	33	28	34	29	25	29	25	22	25	21	19	17
9	51	39	31	26	47	36	30	25	31	26	22	27	23	20	23	20	17	15
10	48	36	28	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14

POLAR GRAPH



Maximum Candela = 775.588 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)