

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-4FT-S-B-835-WSO-ITL89456.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456.013 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUE DATE]08/23/17
[MANUFACTURER]FINELITE, INC.
[LUMCAT]HP-2-ID-4ft-S-B-835-WSO
[INPUT_ELECTRICAL]120.0 VOLTS, 32.2 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 35.1 WATTS
[OTHER]see www.finelite.com for source file ITL89456. 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
[ABSOLUTE LUMENS]3349

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3349
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	32.2
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)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8773	8275	7789
55	7737	7287	6797
65	6729	6359	5953
75	5645	5433	5132
85	4392	4303	4034

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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	751.827	751.827	751.827	751.827	751.827
2.5	750.798	750.798	750.283	750.283	750.798
5.0	746.681	746.166	745.137	744.623	744.623
7.5	740.506	739.991	737.418	735.360	735.875
10.0	733.302	729.699	726.612	724.553	724.039
12.5	720.951	717.349	713.747	710.659	709.115
15.0	708.086	700.882	699.338	693.677	690.590
17.5	692.134	682.871	679.783	672.579	668.462
20.0	673.608	663.316	659.199	650.451	644.791
22.5	653.024	642.218	635.528	625.750	620.090
25.0	629.867	619.575	610.827	599.506	593.331
27.5	607.740	594.360	584.583	572.232	566.057
30.0	581.495	568.630	556.794	543.415	536.725
32.5	554.736	541.871	529.521	514.597	507.908
35.0	526.433	513.568	500.703	484.751	478.061
37.5	497.616	485.265	471.886	455.419	449.244
40.0	467.769	455.933	442.554	425.572	419.397
42.5	437.923	427.116	414.251	396.755	390.579
45.0	408.590	397.784	385.433	368.966	362.791
47.5	378.744	368.966	357.131	340.663	335.003
50.0	349.412	340.663	329.342	313.904	307.729
52.5	321.109	313.390	302.069	287.660	281.999
55.0	292.291	286.631	275.310	261.930	256.784
57.5	265.018	259.872	249.580	237.229	232.598
60.0	238.259	234.142	224.879	213.558	209.441
62.5	212.529	208.412	200.693	190.916	186.799
65.0	187.314	183.197	177.022	168.788	165.700
67.5	163.127	160.040	154.379	147.690	144.602
70.0	139.970	137.912	132.766	127.106	125.047
72.5	117.328	116.299	112.182	108.066	106.522
75.0	96.230	95.715	92.627	89.540	87.482
77.5	76.675	76.160	73.587	72.044	70.500
80.0	58.150	57.635	56.091	54.547	53.518
82.5	41.168	41.168	40.139	39.109	37.566
85.0	25.215	25.215	24.701	23.672	23.157
87.5	10.292	10.292	9.777	8.748	8.748
90.0	0.000	0.000	0.000	0.000	0.000
92.5	7.369	12.692	12.692	12.282	12.282
95.0	19.242	33.981	33.981	28.250	27.840
97.5	32.344	55.680	68.372	49.130	46.264
100.0	45.854	72.466	135.925	79.017	69.600
102.5	60.593	88.433	187.921	139.610	110.951
105.0	74.923	105.629	217.808	227.634	187.511
107.5	89.252	122.415	236.232	307.060	286.180
110.0	103.582	137.972	252.608	353.733	357.418
112.5	117.911	153.121	271.851	384.439	399.997
115.0	132.650	167.450	294.778	406.548	429.065
117.5	147.389	181.780	319.752	427.428	451.583
120.0	162.128	196.928	340.223	449.536	474.101
122.5	175.638	209.620	354.961	480.651	497.847
125.0	188.330	221.902	363.150	514.633	531.828
127.5	200.203	233.366	368.063	537.560	569.494
130.0	210.029	243.192	370.928	546.976	596.515
132.5	219.855	252.199	371.747	543.292	605.113

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CANDELA TABULATION - (Cont.)

135.0	228.453	259.568	371.338	531.828	596.515
137.5	236.232	266.528	370.110	516.270	578.501
140.0	244.010	272.669	368.063	499.075	555.574
142.5	251.380	278.401	365.197	479.832	531.009
145.0	259.159	283.724	362.331	461.409	506.035
147.5	265.709	287.818	359.055	442.576	480.651
150.0	272.260	292.321	354.961	425.790	456.905
152.5	278.401	295.596	350.048	409.823	434.797
155.0	284.133	298.053	345.135	394.265	414.326
157.5	289.455	301.328	340.632	379.936	395.903
160.0	293.959	303.375	335.310	366.016	378.707
162.5	298.053	305.013	329.987	354.143	362.740
165.0	301.328	306.651	324.665	342.679	349.230
167.5	304.194	307.879	320.571	332.853	337.357
170.0	306.651	309.107	317.705	325.074	327.940
172.5	307.879	309.926	314.430	318.524	320.980
175.0	309.517	310.335	312.382	314.430	315.248
177.5	310.335	310.335	311.154	311.154	311.564
180.0	310.745	310.745	310.745	310.745	310.745

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	266.88	N.A.	8.00
0-30	547.56	N.A.	16.30
0-40	860.34	N.A.	25.70
0-60	1403.00	N.A.	41.90
0-80	1676.54	N.A.	50.10
0-90	1704.28	N.A.	50.90
10-90	1633.7	N.A.	48.80
20-40	593.46	N.A.	17.70
20-50	890.13	N.A.	26.60
40-70	717.93	N.A.	21.40
60-80	273.54	N.A.	8.20
70-80	98.27	N.A.	2.90
80-90	27.74	N.A.	0.80
90-110	215.26	N.A.	6.40
90-120	499.27	N.A.	14.90
90-130	823.93	N.A.	24.60
90-150	1361.52	N.A.	40.70
90-180	1644.94	N.A.	49.10
110-180	1429.68	N.A.	42.70
0-180	3349.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.58
10-20	196.29
20-30	280.68
30-40	312.78
40-50	296.66
50-60	246.00
60-70	175.27
70-80	98.27
80-90	27.74
90-100	37.55
100-110	177.72
110-120	284.01
120-130	324.65
130-140	303.43
140-150	234.16
150-160	160.96
160-170	92.50
170-180	29.97

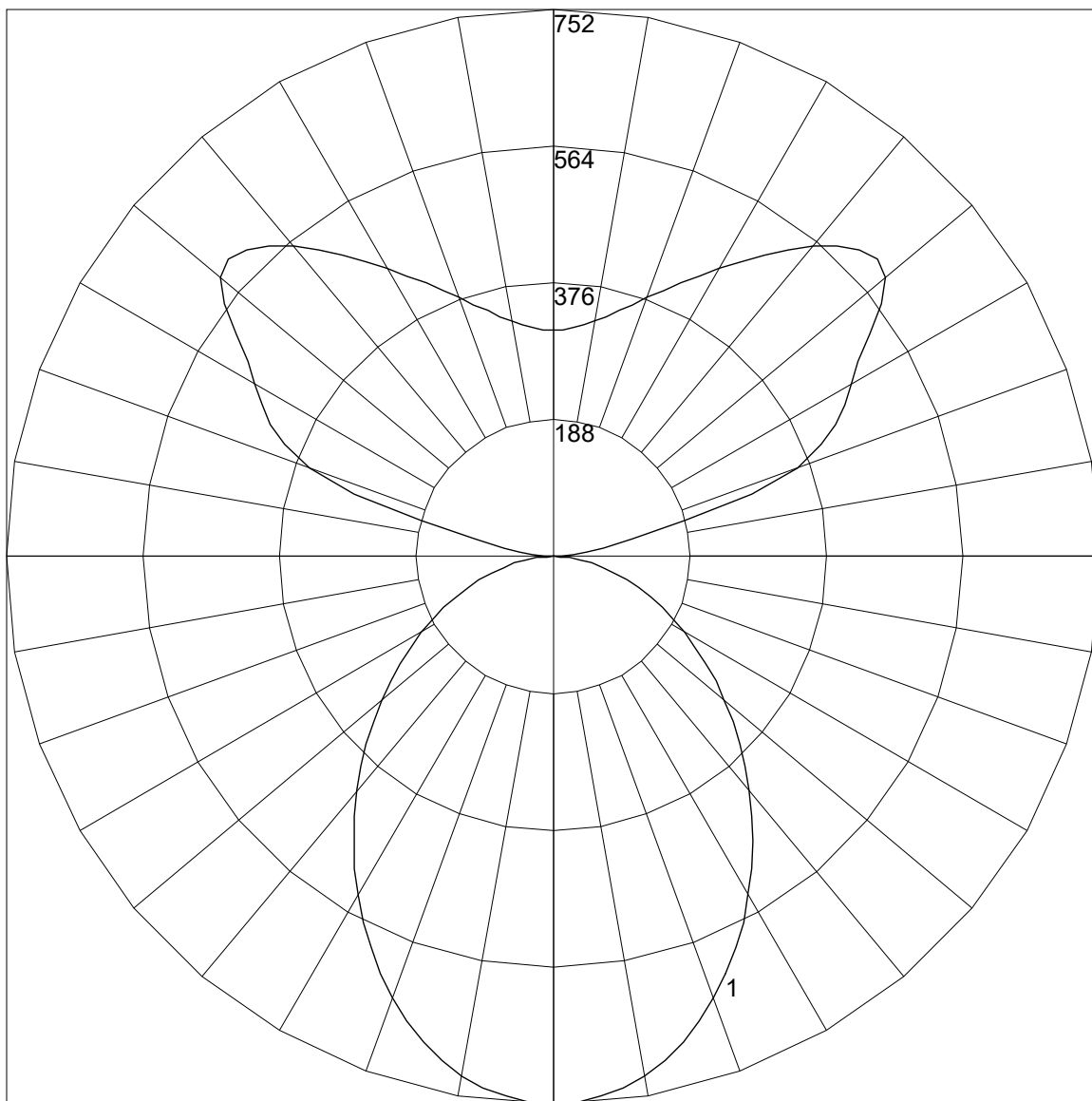
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	91	87	84	81	74	71	69	62	60	59	51	50	48	43
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37
3	82	73	65	60	75	67	61	56	58	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	31	27
5	69	58	50	44	64	54	46	41	46	41	36	39	35	32	32	29	27	24
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21	19
8	55	43	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	23	27	23	20	23	20	17	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16	14

POLAR GRAPH



Maximum Candela = 751.827 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)