

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-H-B-835-WSO-ITL89456.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456.008 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]08/23/17

[MANUFAC]FINELITE, INC.

[LUMCAT]HP2ID-4ft-H-B-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 45.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 48.2 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]4829

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4829
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	45.8
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	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	14.000	24.111	24.111	23.333	23.333
95.0	36.555	64.554	64.554	53.666	52.888
97.5	61.443	105.776	129.886	93.332	87.887
100.0	87.109	137.664	258.217	150.108	132.220
102.5	115.109	167.997	356.993	265.217	210.774
105.0	142.331	200.663	413.770	432.436	356.215
107.5	169.552	232.551	448.769	583.322	543.656
110.0	196.774	262.106	479.880	671.987	678.987
112.5	223.996	290.883	516.434	730.319	759.874
115.0	251.995	318.105	559.989	772.318	815.095
117.5	279.995	345.327	607.433	811.984	857.872
120.0	307.994	374.104	646.321	853.983	900.649
122.5	333.660	398.214	674.320	913.093	945.759
125.0	357.771	421.547	689.875	977.648	1010.314
127.5	380.326	443.325	699.209	1021.202	1081.868
130.0	398.992	461.991	704.653	1039.091	1133.200
132.5	417.659	479.102	706.208	1032.091	1149.533

CANDELA TABULATION - (Cont.)

135.0	433.991	493.101	705.431	1010.314	1133.200
137.5	448.769	506.324	703.097	980.759	1098.978
140.0	463.546	517.990	699.209	948.093	1055.424
142.5	477.546	528.879	693.764	911.538	1008.758
145.0	492.324	538.990	688.320	876.538	961.315
147.5	504.768	546.767	682.098	840.761	913.093
150.0	517.212	555.322	674.320	808.873	867.983
152.5	528.879	561.545	664.987	778.540	825.984
155.0	539.767	566.211	655.654	748.985	787.096
157.5	549.878	572.433	647.098	721.764	752.096
160.0	558.433	576.322	636.987	695.320	719.430
162.5	566.211	579.433	626.877	672.765	689.098
165.0	572.433	582.544	616.766	650.987	663.432
167.5	577.878	584.878	608.988	632.321	640.876
170.0	582.544	587.211	603.544	617.543	622.988
172.5	584.878	588.766	597.322	605.099	609.766
175.0	587.989	589.544	593.433	597.322	598.877
177.5	589.544	589.544	591.100	591.100	591.877
180.0	590.322	590.322	590.322	590.322	590.322

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	266.88	N.A.	5.50
0-30	547.56	N.A.	11.30
0-40	860.34	N.A.	17.80
0-60	1403.00	N.A.	29.10
0-80	1676.54	N.A.	34.70
0-90	1704.28	N.A.	35.30
10-90	1633.7	N.A.	33.80
20-40	593.46	N.A.	12.30
20-50	890.13	N.A.	18.40
40-70	717.93	N.A.	14.90
60-80	273.54	N.A.	5.70
70-80	98.27	N.A.	2.00
80-90	27.74	N.A.	0.60
90-110	408.94	N.A.	8.50
90-120	948.47	N.A.	19.60
90-130	1565.22	N.A.	32.40
90-150	2586.48	N.A.	53.60
90-180	3124.9	N.A.	64.70
110-180	2715.96	N.A.	56.20
0-180	4829.18	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	71.33
100-110	337.61
110-120	539.53
120-130	616.75
130-140	576.43
140-150	444.83
150-160	305.77
160-170	175.72
170-180	56.93

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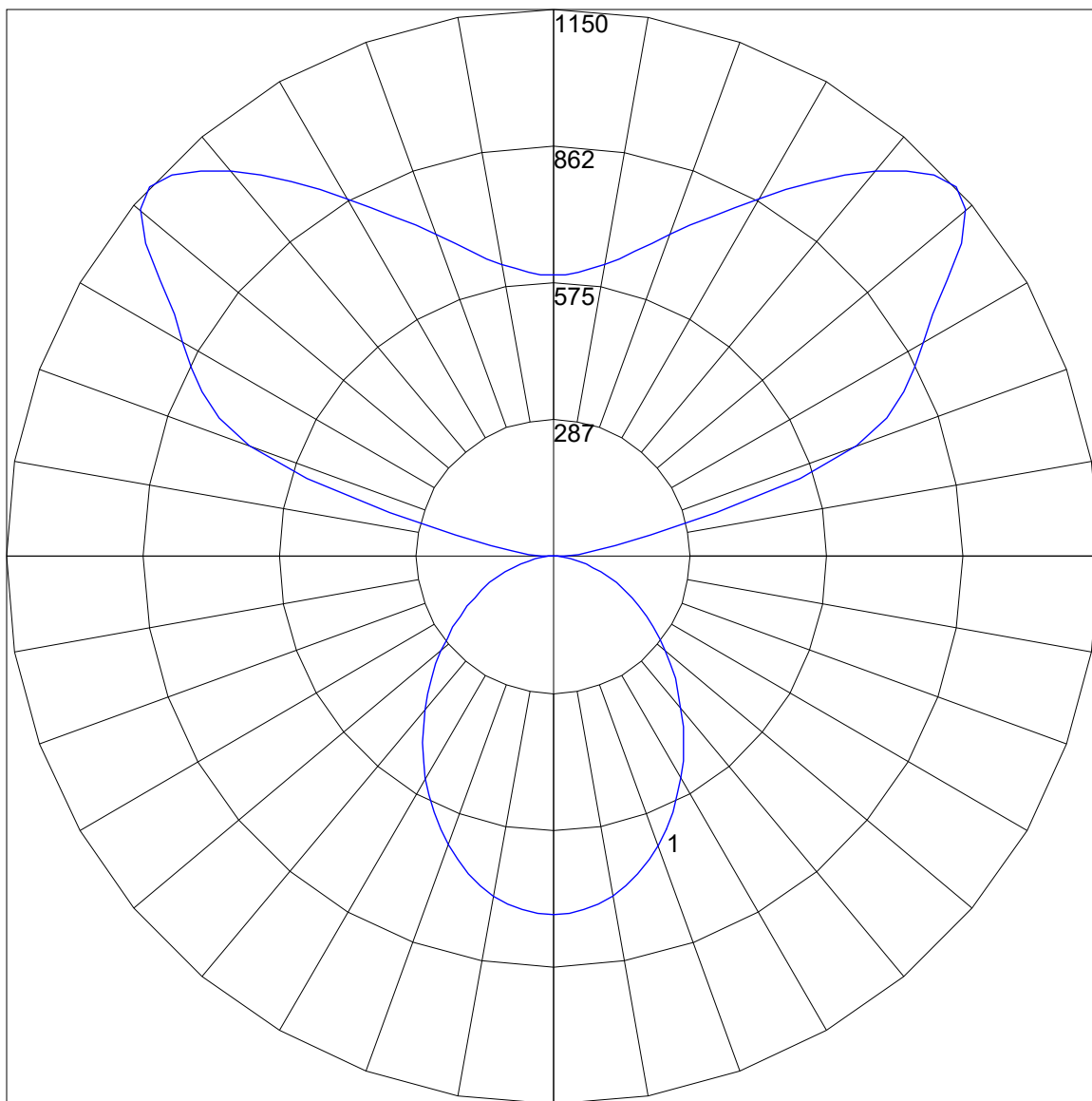
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	34	32	31	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	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	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	13	12	10

POLAR GRAPH



Maximum Candela = 1149.533 Located At Horizontal Angle = 90, Vertical Angle = 132.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)