

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-V-835-WSO-MLW-ITL89456-KPL2008-7.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-7.015 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUE DATE]02/07/23
[MANUFACTURER]FINELITE, INC.
[LUMCAT]HP-2-ID-4ft-S-V-835-WSO-MLW
[INPUT_ELECTRICAL]120.0 VOLTS, 50.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 51.6 WATTS
[OTHER]see www.finelite.com for source files ITL89456 and KPL2008-7. For further details on Finelite family correlation files, go to http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf
[ABSOLUTE LUMENS]5109

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5107
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	50.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.56
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	5067	4951	4794
55	4222	4103	3905
65	3601	3407	3188
75	3051	2830	2556
85	2399	2167	1944

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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	8701.140	8701.140	8701.140	8701.140	8701.140
2.5	8503.900	8555.090	8516.110	8523.160	8539.590
5.0	8023.010	8081.720	8069.030	8076.080	8100.030
7.5	7259.780	7355.070	7384.890	7449.560	7446.880
10.0	6204.260	6404.140	6618.000	6741.140	6757.660
12.5	5066.280	5276.250	5747.980	5959.640	6004.770
15.0	4127.970	4349.640	4815.970	5136.820	5125.450
17.5	3213.520	3457.310	3940.120	4160.750	4031.040
20.0	2242.720	2577.850	3079.020	3211.130	3157.360
22.5	1508.420	1883.140	2319.550	2461.710	2393.940
25.0	1017.950	1213.410	1761.550	1862.140	1776.860
27.5	730.470	810.780	1166.160	1165.320	1044.250
30.0	533.280	613.860	745.100	733.480	676.840
32.5	406.560	462.840	525.590	505.650	498.890
35.0	339.330	360.940	395.490	390.990	378.630
37.5	309.270	312.340	327.410	317.260	299.990
40.0	283.200	285.730	281.920	270.540	265.060
42.5	259.630	261.600	252.600	245.170	244.960
45.0	235.990	238.620	230.600	224.960	223.280
47.5	206.820	217.080	209.850	205.650	202.370
50.0	194.080	196.200	191.470	188.170	187.150
52.5	177.140	178.200	172.510	167.220	165.310
55.0	159.520	160.240	155.000	151.040	147.540
57.5	143.050	143.370	138.110	133.490	131.460
60.0	127.470	127.980	122.750	118.360	116.390
62.5	113.720	113.190	108.280	104.310	101.930
65.0	100.250	99.600	94.850	90.940	88.740
67.5	86.640	86.740	82.040	78.520	76.120
70.0	74.460	74.220	70.160	66.790	64.340
72.5	62.220	62.360	58.840	55.660	53.420
75.0	52.020	51.490	48.240	45.580	43.580
77.5	41.440	40.450	38.310	36.140	34.550
80.0	32.100	31.320	29.180	27.290	26.450
82.5	22.370	22.110	20.400	19.290	18.240
85.0	13.770	13.220	12.440	11.600	11.160
87.5	5.620	5.740	5.160	4.820	4.580
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-WSO-MLW-ITL89456-KPL2008-7.015.IES****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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Zone	Lumens	%Lamp	%Fixt
0-20	2007.08	N.A.	39.30
0-30	2729.14	N.A.	53.40
0-40	2984.44	N.A.	58.40
0-60	3302.22	N.A.	64.70
0-80	3448.07	N.A.	67.50
0-90	3462.43	N.A.	67.80
10-90	2740.62	N.A.	53.70
20-40	977.36	N.A.	19.10
20-50	1156.11	N.A.	22.60
40-70	412.24	N.A.	8.10
60-80	145.84	N.A.	2.90
70-80	51.38	N.A.	1.00
80-90	14.36	N.A.	0.30
90-110	215.26	N.A.	4.20
90-120	499.27	N.A.	9.80
90-130	823.93	N.A.	16.10
90-150	1361.52	N.A.	26.70
90-180	1644.94	N.A.	32.20
110-180	1429.68	N.A.	28.00
0-180	5107.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	721.81
10-20	1285.27
20-30	722.05
30-40	255.31
40-50	178.76
50-60	139.03
60-70	94.46
70-80	51.38
80-90	14.36
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

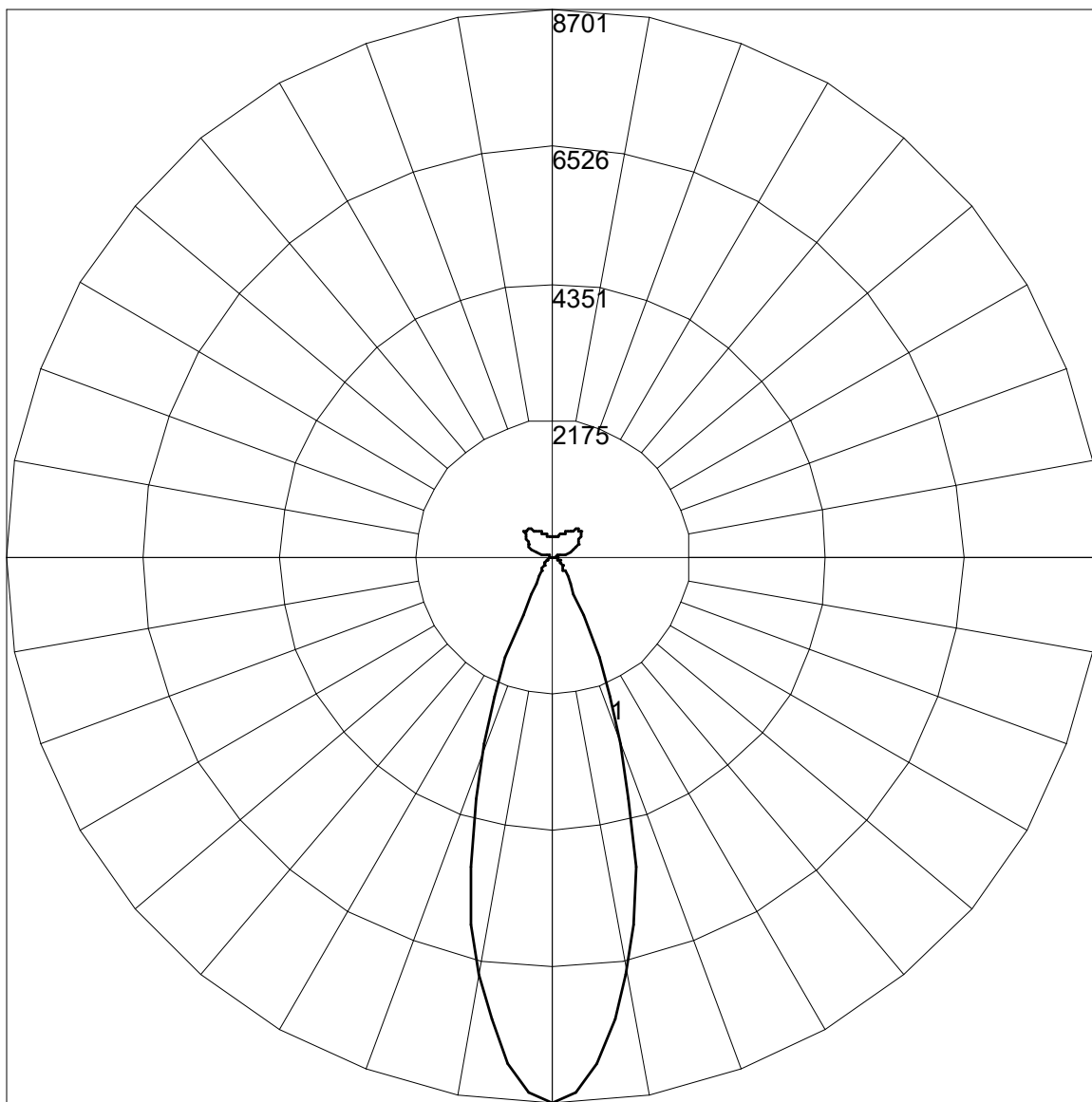
Effective Floor Cavity Reflectance 0.20

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68
1	105	102	99	96	99	96	94	92	86	85	83	77	76	75	69	68	67	63
2	99	93	89	85	93	89	85	81	80	77	75	72	70	68	65	64	62	59
3	93	86	80	76	88	82	77	73	75	71	68	68	65	63	62	60	58	55
4	88	80	74	69	83	76	71	67	70	66	63	64	61	59	59	57	55	52
5	83	74	68	64	79	71	66	62	66	62	59	61	58	55	56	54	52	49
6	79	70	64	59	75	67	62	58	62	58	55	58	55	52	54	51	49	47
7	75	66	59	55	72	63	58	54	59	55	52	55	52	49	52	49	47	45
8	71	62	56	52	68	60	55	51	56	52	49	53	49	47	49	47	45	43
9	68	59	53	49	65	57	52	48	54	49	46	51	47	45	48	45	43	41
10	65	56	50	46	63	54	49	46	51	47	44	49	45	43	46	43	41	40

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POLAR GRAPH



Maximum Candela = 8701.14 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (90 - 270)