

# 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-B-V-8TW-WSO-MLW-ITL89456-KPL2008-7.912.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-7.912 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-B-V-8TW-WSO-MLW  
[INPUT\_ELECTRICAL]120.0 VOLTS, 59.8 WATTS  
[INPUT\_ELECTRICAL]277.0 VOLTS, 60.7 WATTS  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source files ITL89456 and KPL2008-7. For further details on Finelite family correlation files, go  
[more][http://www.finelite.com/download\\_files/series\\_downloads/photometry\\_pdf/FL\\_Family\\_Correlation\\_WhitePaper.pdf](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)  
[ABSOLUTE LUMENS]5532

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5530
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	59.8
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	9.263	15.953	15.953	15.439	15.439
95.0	24.187	42.714	42.714	35.509	34.994
97.5	40.655	69.988	85.942	61.754	58.152
100.0	57.637	91.088	170.854	99.322	87.485
102.5	76.164	111.158	236.210	175.485	139.462
105.0	94.175	132.772	273.778	286.129	235.696
107.5	112.187	153.871	296.936	385.965	359.719
110.0	130.199	173.427	317.521	444.632	449.263
112.5	148.210	192.468	341.708	483.228	502.784
115.0	166.737	210.480	370.526	511.017	539.322
117.5	185.263	228.491	401.918	537.263	567.626
120.0	203.790	247.532	427.649	565.053	595.930
122.5	220.772	263.485	446.175	604.164	625.778
125.0	236.725	278.924	456.468	646.877	668.491
127.5	251.649	293.333	462.643	675.696	715.836
130.0	264.000	305.684	466.246	687.532	749.801
132.5	276.351	317.006	467.275	682.901	760.608

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-V-8TW-WSO-MLW-ITL89456-KPL2008-7.912.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	287.158	326.269	466.760	668.491	749.801
<b>137.5</b>	296.936	335.017	465.216	648.936	727.158
<b>140.0</b>	306.714	342.737	462.643	627.322	698.339
<b>142.5</b>	315.977	349.942	459.041	603.135	667.462
<b>145.0</b>	325.754	356.632	455.439	579.977	636.070
<b>147.5</b>	333.988	361.778	451.322	556.304	604.164
<b>150.0</b>	342.222	367.439	446.175	535.205	574.316
<b>152.5</b>	349.942	371.556	440.000	515.135	546.526
<b>155.0</b>	357.146	374.643	433.825	495.579	520.795
<b>157.5</b>	363.836	378.760	428.164	477.567	497.637
<b>160.0</b>	369.497	381.333	421.474	460.070	476.023
<b>162.5</b>	374.643	383.392	414.784	445.146	455.953
<b>165.0</b>	378.760	385.450	408.094	430.737	438.971
<b>167.5</b>	382.363	386.994	402.947	418.386	424.047
<b>170.0</b>	385.450	388.538	399.345	408.608	412.211
<b>172.5</b>	386.994	389.567	395.228	400.374	403.462
<b>175.0</b>	389.053	390.082	392.655	395.228	396.257
<b>177.5</b>	390.082	390.082	391.111	391.111	391.626
<b>180.0</b>	390.596	390.596	390.596	390.596	390.596

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-V-8TW-WSO-MLW-ITL89456-KPL2008-7.912.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2007.08	N.A.	36.30
0-30	2729.14	N.A.	49.40
0-40	2984.44	N.A.	54.00
0-60	3302.22	N.A.	59.70
0-80	3448.07	N.A.	62.40
0-90	3462.43	N.A.	62.60
10-90	2740.62	N.A.	49.60
20-40	977.36	N.A.	17.70
20-50	1156.11	N.A.	20.90
40-70	412.24	N.A.	7.50
60-80	145.84	N.A.	2.60
70-80	51.38	N.A.	0.90
80-90	14.36	N.A.	0.30
90-110	270.58	N.A.	4.90
90-120	627.57	N.A.	11.30
90-130	1035.65	N.A.	18.70
90-150	1711.39	N.A.	30.90
90-180	2067.64	N.A.	37.40
110-180	1797.06	N.A.	32.50
0-180	5530.07	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	47.20
100-110	223.38
110-120	356.99
120-130	408.08
130-140	381.40
140-150	294.33
150-160	202.32
160-170	116.27
170-180	37.67

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

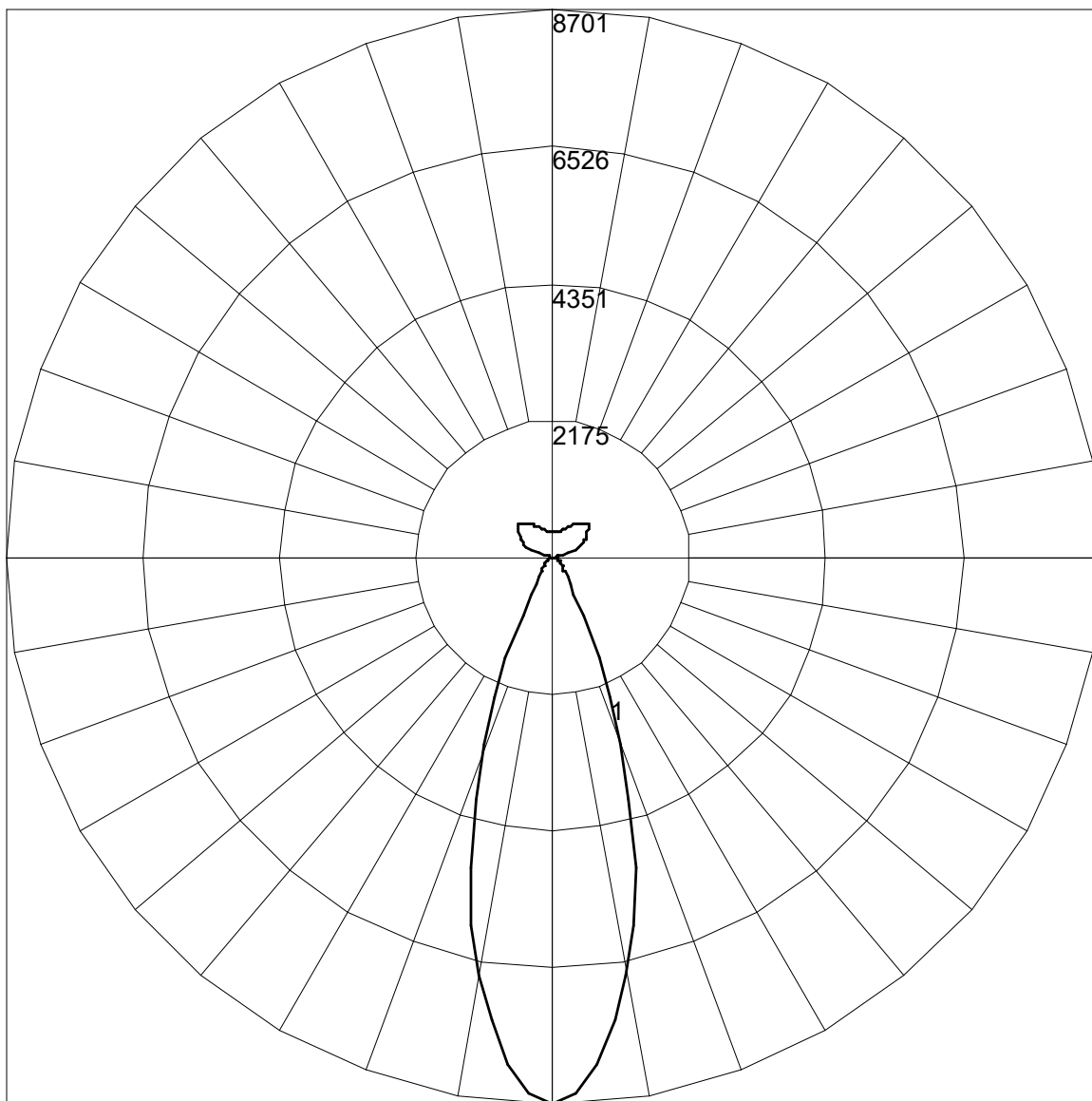
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	103	100	97	95	97	94	92	90	83	82	80	73	72	71	64	63	63	58
2	97	91	87	83	91	87	83	79	77	74	72	69	67	65	61	59	58	55
3	91	84	79	74	86	80	75	71	72	68	65	65	62	60	58	56	54	51
4	86	78	72	67	81	74	69	65	67	63	60	61	58	56	55	53	51	48
5	81	72	66	62	77	69	64	60	63	59	56	58	54	52	52	50	48	46
6	77	68	61	57	73	65	59	55	60	55	52	55	51	49	50	48	46	43
7	73	64	57	53	69	61	56	52	56	52	49	52	49	46	48	45	43	41
8	70	60	54	50	66	58	52	49	54	49	46	50	46	44	46	43	41	40
9	66	57	51	47	63	55	49	46	51	47	44	48	44	42	44	42	40	38
10	63	54	48	44	61	52	47	43	49	45	42	46	42	40	43	40	38	36

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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)