Light Display Layout (.ldl) File Format Specification

Version 0.0.0.1 (Draft)

Summary

Byte Offset	Section
0x000	Configuration Block
0x200	Light System Parameters
0x200 + N	Layout Lines

Section 0 - Configuration Block

The Configuration Block format shall match the format of Section 0 specified in the Light Display Project (.ldp) File Format Specification, beginning at version 0.0.0.2. Any changes in the Configuration Block shall result in a minor version update for this document, such that the Configuration Block matches the most recent version.

Section 1 - Light System Parameters

The Light System Parameters format shall match the format of Section 1.0 specified in the Light Display Project (.ldp) File Format Specification, beginning at version 0.0.0.2. Any changes in the Light System Parameters shall result in a minor version update for this document, such that the Light System Parameters match the most recent version.

Section 2 - Layout Lines

The number of bytes in section 2 is $19N + 2$, where N is the number of layout lines, defined by the first two bytes of the section.

Byte Offset	Size (bytes)	Field
0x00	2	# of Lines
0x02	19	Entry 0
...	...	...
varies	19	Entry N - 1

Layout Line Entry Format

Each layout line consists of 19 bytes.

Byte Offset	Field	Value
0x00	X1	32-bit Floating Point
0x04	Y1	32-bit Floating Point
0x08	X2	32-bit Floating Point
0x0C	Y2	32-bit Floating Point
0x10	Count	1 - 255
0x11	Channel	0 - (N - 1), where N is the number of channels in the light system.
0x12	Starting Index	0 - (M - 1), where M is the number of LEDs in the channel.