

EVERset Lumen Maintenance

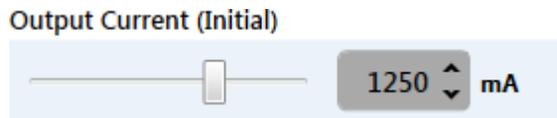
Overview

The following application note is applicable to Universal Douglas LED drivers that have Lumen Maintenance functionality. Compatible Universal Douglas LED drivers will have “Lumen Maintenance” listed under “Programmable Features” on their spec sheets. Lumen Maintenance allows for the LED driver to have a reduced output current when initially installed with the output current programmed to increase over time. This is done to offset the decrease in the lumen output of the LED modules over their rated life.

Lumen Maintenance

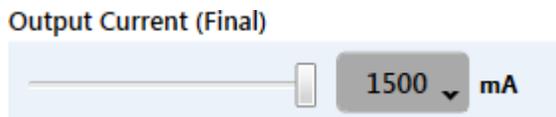
Universal Douglas LED drivers have the ability to program the initial output current, final output current and the duration of the time period over which the output current will increase. This feature is disabled by default in compatible Universal Douglas LED drivers. It can be enabled by clicking on the “Enable” radio button in the Lumen Maintenance tab of the EVERset GUI and configuring the following parameters.

Output Current (Initial): this is the initial maximum output current of the driver, the driver will provide this output current at initial start up. The initial output current can be set down to 50% of the final output current.



Output Current (Initial) slider in EVERset.

Output Current (Final): this is the maximum output current the driver will reach after the lumen compensation period. The final output current range is the same as the “Output Current” range on the driver. This range is listed on the driver spec sheet.



Minimum Dim Current slider in EVERset.

Lumen Compensation Period: this is the duration of time over which the driver will increase from the initial output current to the final output current. The driver will linearly increase from the initial output current to the final output current over the duration of the lumen compensation period. The lumen compensation period can be set up to 100,000 hours. A value of zero disables Lumen Maintenance.



Lumen Compensation Period slider in EVERset.

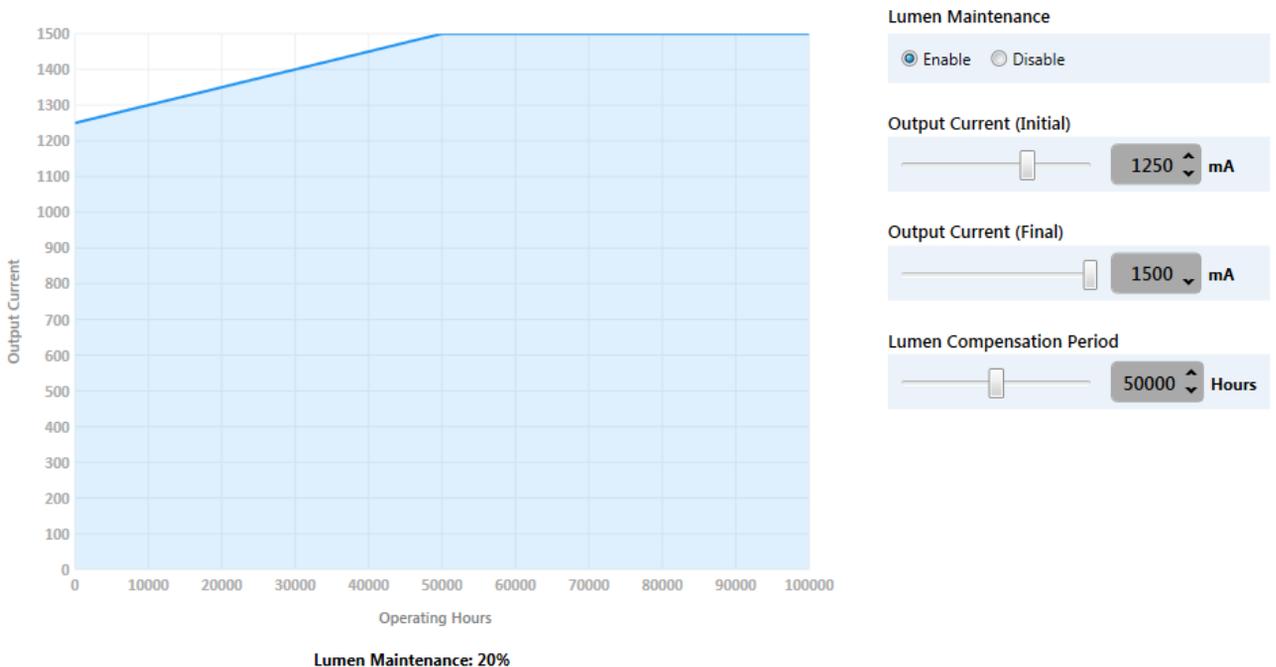
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Example: D15CC55UVPA12-FS configured through EVERset with the following parameters

Output Current (Initial): 1250mA

Output Current (Final): 1500mA

Lumen Compensation Period: 50,000 hours



Lumen Maintenance graph and slider values in EVERset.

Note: the lumen maintenance percentage displayed underneath the graph is the percentage increase of the final output current over the initial output current.

In this example: $(1500-1250) / 1250 = 20\%$