March 2019 Newsletter

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eldoLED
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Upgrade single channel 50W/L LED driver family

ECOdrive and SOLOdrive

Change Description:

eldoLED is releasing an upgrade to its single channel 50W/L LED driver family. This upgrade includes:

1. A selectable auxiliary output (AUX) that can deliver a current up to 100mA between 4V and 24V to support a wider range of auxiliary devices (e.g. radios, sensors).
2. Addition of a LEDcode-only configuration without AUX for applications that do not need an AUX and/or integrate with LEDcode-only peripherals (e.g. BT radio).
3. A set of single channel 50W/L driver configurations with UL Class P listing.

In the remainder of this notification, the current generation of single channel 50W/L drivers will be referred to as "legacy" drivers; the new generation of single channel 50W/L drivers that are part of this NPI will be referred to as "enhanced" drivers.

In support of this change notification, eldoLED released an update to its FluxTool programming software. FluxTool version 3.2.6. is available through https://www.eldoled.com/led-drivers/tooling/programming-software/fluxtool/. eldoLED always recommends using the latest version of FluxTool to have access to all features and ensure optimal interoperability between LED drivers and programming software.

Impact to customers:

Enhanced drivers are identical to legacy drivers in terms of overall form factor, operating window, programmability and their dimming, startup, and flicker performance. The differences between legacy and enhanced drivers are listed below:

1. The AUX operating window has been increased from 15.5V - 25V (18mA maximum) in legacy drivers to 4V - 24V (100mA maximum) in enhanced drivers to support a wider range of auxiliary devices (e.g. radios, sensors) and higher overall AUX power levels.
2. The AUX voltage in enhanced drivers is actively regulated and the voltage setpoint is selectable in FluxTool in 1V increments between 4V and 16V and 2V increments between 16V and 24V. By default, the AUX voltage in enhanced drivers is set to 16V, i.e. at the low end of the voltage range that is currently supported by legacy drivers.
3. The AUX in legacy drivers is always on. The AUX in enhanced drivers can be set to remain either on or off whenever the driver goes into standby mode. The default is off during standby. However, customers can change this in FluxTool. Alternatively, enhanced drivers can be ordered from the factory to remain on during standby through a special ordering option per the product datasheet.
4. Enhanced drivers are only available with the necessary certification for use in North America, i.e. UL Recognition (Type TL) or Class P listing. The enhanced drivers do not carry ENEC/EL certification.

Table 1: Overview of the enhanced 50W/L driver configurations.

UL Certification	Family	Control	M.P. Aux	Product Name	New P/N
UL Recognition (Type TL)	ECOdrive	DALI-2	yes	ECOdrive 565/L	EC0565L4
		0-10V	yes	ECOdrive 566/L	EC0566L4
		LEDcode	-	ECOdrive 567/L	EC0567L4
			yes	ECOdrive 568/L	EC0568L4
	SOLOdrive	DALI-2	yes	SOLOdrive 565/L	SL0565L4
		0-10V	yes	SOLOdrive 566/L	SL0566L4
		LEDcode	-	SOLOdrive 567/L	SL0567L4
			yes	SOLOdrive 568/L	SL0568L4
UL Class P Listing	ECOdrive	DALI-2	yes	ECOdrive 50L-M1M0D	EC50L-M1M0D1
		0-10V	yes	ECOdrive 50L-M1M0A	EC50L-M1M0A1
		LEDcode	-	ECOdrive 50L-M1Z0Z	EC50L-M1Z0Z1
			yes	ECOdrive 50L-M1M0Z	EC50L-M1M0Z1
	SOLOdrive	DALI-2	yes	SOLOdrive 50L-M1M0D	SL50L-M1M0D1
		0-10V	yes	SOLOdrive 50L-M1M0A	SL50L-M1M0A1
		LEDcode	-	SOLOdrive 50L-M1Z0Z	SL50L-M1Z0Z1
			yes	SOLOdrive 50L-M1M0Z	SL50L-M1M0Z1

The AUX of an enhanced driver yields significantly more power than the AUX of a legacy driver at similar output voltage and should, therefore, be more than adequate for most applications that currently rely on the AUX of the legacy driver. However, prior to switching over, those customers who operate the AUX of a legacy driver at or above 24V shall validate that the AUX of an enhanced driver is, indeed, adequate for their application.

eldoLED offers a subset of single-channel ECOdrive/SOLOdrive 565/568 /L drivers with a "boosted" AUX (up to ~40V; 18mA maximum) to support select nLight AIR applications. These legacy drivers with "boosted AUX" are obsoleted with the introduction of the enhanced 50W/L drivers.

The commercial part numbers for enhanced drivers are incremented relative to their legacy counterparts (e.g. EC0566L3 → EC0566L4) to ensure full traceability. Also, new commercial invoice (CI) codes are issued for enhanced drivers. A complete list of enhanced drivers, including their new commercial revision numbers, can be found in Table 1 of this change notification.

Certification:

The enhanced drivers include both firmware and hardware upgrades to support a larger AUX operating window and a higher maximum AUX output power. Nevertheless, the enhanced drivers with UL Recognition (Type TL) are engineered to retain the same UL Tref and Trefmax temperatures as the corresponding legacy drivers per the original UL file. This means, in principle, that no UL re-certification of the luminaire is necessary if a legacy driver is replaced by an enhanced driver with the same current setting.

In addition to enhanced drivers with UL Recognition (Type TL), eldoLED now offers enhanced drivers with UL Class P listing. This LED driver certification level offers luminaire manufacturers a simplified and more flexible LED driver interchangeability scheme without the need for resubmittal of the luminaire to UL. If a luminaire does not presently use a Class P LED driver, a foundational Class P LED driver must first be added to its UL listing. This foundational LED driver evaluation may or may not require additional temperature testing.

The enhanced drivers are solely designed for use in North America, i.e. they do not carry any ENEC/EL certification. If ENEC/EL certification is required, customers shall order legacy drivers.

eldoLED lists its LED drivers by their official product names (i.e. family name, configuration, and form factor) with standards agencies. For example, a single channel ECOdrive 50W/L driver with a 0-10V control interface is listed as ECOdrive 566/L or ECOdrive 50L-M1M0A, depending on the UL certification that is applicable. The corresponding commercial part number (e.g. EC0566L3 or EC50L-M1M0A1) is used for traceability purposes only. Those customers who (inadvertently) listed an eldoLED LED driver with its commercial part number instead of its full product name in their luminaire file may need to update their certification documentation to avoid non-compliance.

Visit eldoLED to learn more!

AcuityBrands OEM Sales Director, Michael Boynton, at **LEDucation** in March at the Hilton, NYC.


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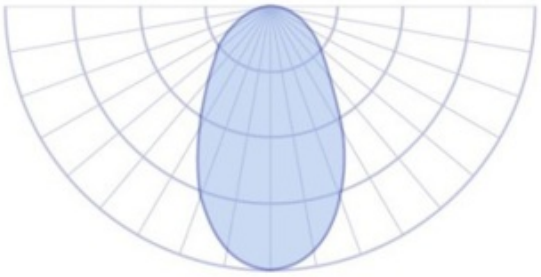
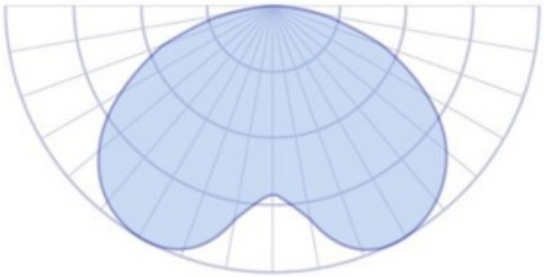
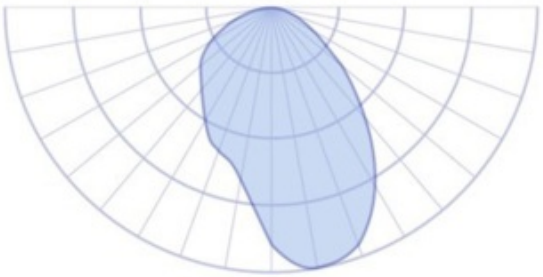


Linear Collimation with Uniform Surface



“Batwing” type distribution with Smooth Surface and Light LED Hiding



Asymmetric Distribution with Linear Collimation and Uniform Surface

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NANO OPTICS™ Essentials

A distillation of Nano Optics technology offered in rigid light engines for luminaires.

Industry leading in size to efficacy ratio. Unparalleled color consistency and light uniformity, offered in the smallest package of its kind. Precision silicone optical structure enabling flawless color over angle, a best in class solution.

Reduces extensive product development periods with drop in fixture design.

Power consumtion (W/Ft)
4.8, 6.0, 9.0

CRI
90

Dimensions
W: .72" H: <.38"

Color temperature option (K)
2700, 3000, 3500, 4000

Lumen output
up to 630 Lm/Ft

Length
6", 1' & 2'

Beam Angles
15°x15°, 20°x45°, 45°x20°, Asymmetric

24V DC | IP40 | CRI 90 | UL LISTED | CE | RoHS

NANO OPTICS™ Flex

Nano Optics™ Flex is both an interior and exterior surface mounted flexible luminaire. It is the smallest, most configurable linear optic luminaire system. Ideal for grazing, washing, and many other architectural applications, including architectural curves.

Precisely engineerined optics to control and distribute light where it is needed for efficiency, consistency and beautiful results.

Power consumtion (W/Ft)
4.8, 6.0

CRI
90

Dimensions
W: .72" H: <.38"

Color temperature option (K)
2700, 3000, 3500, 4000

Lumen output
up to 630 Lm/Ft

Length
5', 10'

Beam Angles
15°x15°, 20°x45°, 45°x20°, Asymmetric

24V DC | IP67 | CRI 90 | UL LISTED | CE | RoHS

TRUE LIGHT™ Flex

A flexible architectural linear lighting solution featuring onboard current regulation and integrated connectors every 6'/ 152mm allowing to cut and reconnect in the field. Featuring silicone encapsulation for durability, reliability, and industry leading color rendering up to 95CRI.

24V DC | IP67 | CRI 80 | CRI 90 | UL LISTED | CE | ETL | RoHS

Power consumtion (W/Ft) 4.4, 4.8
CRI >80, >90
Dimensions W: .72" H: <.38"
Color temperature option (K) 2700, 3000, 3500, 4000K
Lumen output up to 425 Lm/Ft
Length 6", 1' & 2'

FLEXHYDRO™ Series

Industry leading size to efficacy ratio with interconnecting modules for indoor and outdoor use for the most easily configurable layouts. With unparalleled color over angle light consistency and less than 2 SDCM our precise beam control solutions allow for the most discreet optical designs in its class.

12V DC | 24V DC | IP20 | IP65 | IP68 | CRI 90 | UL LISTED | CE | RoHS | TM 30

FLEXHYDRO™ Static White Accent

Power consumtion (W/Ft) 1.8, 3.6
CRI 90+
Dimensions W: .47" H: .21"
Color temperature option (K) 2200, 2800, 3000, 3500 4000, 6000
Lumen output up to 320 Lm/Ft
Length 40' Max.

FLEXHYDRO™ Pixel-Cut / Tunable White

Power consumtion (W/Ft) 3.0
CRI 90+
Dimensions W: .47" H: .21"
Color temperature option (K) 2200, 2800, 3000, 3500 4000, 6000 / 2700 +6500
Lumen output up to 335 Lm/Ft
Length 32' Max.

FLEXHYDRO™ Side Emitting

Power consumtion (W/Ft) 3.0
CRI 90+
Dimensions W: .47" H: .21"
Color temperature option (K) 3000, 4000, 6500, Red, Blue, Green, Amber
Lumen output up to 79Lm/Ft
Length 16.4' Max.

FLEXHYDRO™ RGB

Power consumtion (W/Ft) 3.0
CRI 90+
Dimensions W: .47" H: .21"
Color temperature option (K) Red, Blue, Green
Lumen output -
Length 16.4' Max.

FLEXHYDRO™ RGB+W

Power consumtion (W/Ft) 2.4
CRI 90+
Dimensions W: .47" H: .21"
Color temperature option (K) 4000, Red, Blue, Green
Lumen output up to 115 Lm/Ft
Length 16.4' Max.

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Please forward quote requests and orders to: **orders@oemlightingsales.com**

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