

eldoLED Product Change Notification – effective August 8, 2018

Date: August 8, 2018

Change Description

eldoLED is rolling out its 2018 upgrade over a broad set of LED drivers. The 2018 upgrade further improves performance consistency between, and expands the feature set of its drivers. The main improvements of the 2018 upgrade include:

1. Programming of drive current in 1mA increments (instead of 25mA) for ECOdrive drivers.
2. DALI drivers support the new DALI-2 (Device Type 6) standard. Most DALI drivers have already been independently verified by the [Digital Illumination Interface Alliance \(DiiA\)](#) to comply with the relevant parts of the DALI-2 standard. For a few dual channel DALI drivers, DiiA certification is still pending.
3. Customers can order most 0-10V and LEDcode drivers to be programmed with a faster start-up time to comply with several North American standards (e.g. ENERGY STAR® and CA Title 24). For more details, see the white paper “Start time requirements for LED luminaires” on the [eldoLED website](#).
4. DALI and LEDcode only LED drivers will support the latest LEDcode2 communication protocol, which enables location-based IoT applications and wired and wireless lighting control through select LEDcode peripheral devices
5. Support for eldoLED visible light communication (VLC) v1.5^{*}.

In the remainder of this notification, current production drivers will be referred to as “legacy” drivers while drivers with the 2018 update will be referred to as “enhanced” drivers.

eldoLED has also released an update to its FluxTool programming software. FluxTool v3.2.6. has been made available on <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

The commercial part numbers for enhanced drivers are incremented relative to their legacy counterparts (e.g. EC0361B2 → EC0361B3) 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 Tables 1 – 6 at the end of this change notification.

To ensure backward compatibility, enhanced 0-10V and LEDcode drivers ship, by default, with the same startup performance as legacy drivers. However, most enhanced 0-10V and LEDcode drivers can be ordered to meet the faster startup performance mandated by ENERGY STAR and CA Title 24. eldoLED has validated the consistency in dimming and start-up performance between legacy and

^{*} Supported in North America Atrius installations as required.

enhanced drivers. However, in select applications and under certain operating conditions customers may experience slight performance variations. Therefore, eldoLED recommends that customers validate the performance of enhanced drivers prior to mixing these with legacy drivers in the same space.

The startup behavior of legacy DALI drivers and enhanced DALI drivers is different. Legacy DALI drivers are designed to generate first light within 0.6s and fade to full power within, typically, 1.1s. Enhanced DALI drivers, as specified in the DALI-2 standard and verified as part of DiiA certification, apply full power to the LED load after 0.6s. Also, the acceptance criteria for the fade down performance have been defined more specifically in DALI-2. Consequently, the fade down command, under certain circumstances, may yield slightly different dimming performance between legacy and enhanced DALI drivers. Therefore, it is not advised to mix legacy DALI and enhanced DALI drivers in the same space.

The label on the driver includes either the DALI or DALI-2 logo (see pictures below) to identify which DALI standard is supported. All drivers that carry the DALI-2 logo are certified by DiiA to comply with IEC 62386-101 Edition 2.0, IEC 62386-102 Edition 2.0 and IEC 62386-207 Edition 1.0 (Device Type 6).



All enhanced DUALdrive DALI drivers support LightShape, Tunable White. In applications that require control of both color temperature and intensity via the nLight® network, an enhanced DUALdrive DALI driver with LightShape must be connected, via LEDcode, to a digital nIO EZDL CCT device with at least firmware version F386A-002Z-029 nIO-LEDCODE-CCT-n100-5242. Using a digital nIO EZDL CCT with an older firmware version may result in the light engine not turning on. The new firmware for digital nIO EZDL CCT will be released in the middle of August 2018 and will be backward compatible with legacy DUALdrive DALI drivers with LightShape.

Certification

The 2018 upgrade consists of firmware upgrades and, in select cases, also hardware upgrades to support the faster start-up performance. All drivers remain covered by the same certification files as the corresponding legacy drivers. This means, in principle, that no re-certification of the luminaire is necessary if those legacy drivers are replaced by enhanced drivers with the same form factor, power rating, and current settings.

eldoLED lists its LED drivers by their official product names (i.e. family name, configuration, and form factor) with standards agencies (e.g. UL and ENEC). For example, an ECOdrive 30W driver with a /B form factor and a 0-10V control interface is listed as ECOdrive 361/B. The corresponding commercial part number (EC0361B2) 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.

Effective date(s)

This notice signifies the beginning of the transition from legacy to enhanced drivers as well as the end-of-maintenance for all legacy drivers listed in Tables 1 – 6. Enhanced drivers are available for ordering as of the date of this notice. The completion of the transition period and the last-time-buy date for legacy drivers will be communicated in a later stage. Lead times for legacy drivers are no longer guaranteed and will depend on available inventory and production schedules.

eldoLED typically stocks drivers in its distribution centers to ensure short lead times to its customers. Therefore, customers who order eldoLED drivers by product name (e.g. ECOdrive 361/B) during the transition period may, at the discretion of eldoLED, receive either legacy or enhanced drivers. eldoLED will not mix legacy and enhanced drivers to fulfill orders.

Customers who need a specific feature set or performance associated with either the legacy or enhanced driver are advised to explicitly call out the commercial part number for the driver in their purchase order (e.g. EC0361B2 or EC0361B3, respectively, for the legacy or enhanced 30W/B 0-10V driver). eldoLED driver CI codes are, by design, tied to a specific commercial part number. Thus, a legacy driver and an enhanced driver with the same programming settings (e.g. drive current, dimming curve, minimum dimming level) will each have a unique CI code.

For more information on how to identify the commercial revision number and production date of an eldoLED driver, see <http://www.eldoled.com/about-us/news/pun-factory-label-change/>.

Affected Products

Tables 1 – 6 list all the enhanced drivers with the 2018 update and their legacy counterparts.

Table 1: 10W/20W/30W /B & /S and 50W /B drivers

Form Factor	Power	Family	Product Name	Legacy Part Number	New Part Number
B	10W	ECOdrive	ECOdrive 160/B	EC0160B1	EC0160B3
			ECOdrive 161/B	EC0161B1	EC0161B3
		SOLOdrive	SOLOdrive 160/B	SL0160B1	SL0160B3
			SOLOdrive 161/B	SL0161B1	SL0161B3
	20W	ECOdrive	ECOdrive 260/B	EC0260B1	EC0260B2
			ECOdrive 261/B	EC0261B1	EC0261B2
		SOLOdrive	SOLOdrive 260/B	SL0260B1	SL0260B2
			SOLOdrive 261/B	SL0261B1	SL0261B2
	30W	ECOdrive	ECOdrive 360/B	EC0360B2	EC0360B3
			ECOdrive 361/B	EC0361B2	EC0361B3
		SOLOdrive	SOLOdrive 360/B	SL0360B2	SL0360B3
			SOLOdrive 361/B	SL0361B2	SL0361B3
	50W	ECOdrive	ECOdrive 560/B	EC0560B2	EC0560B3
			ECOdrive 561/B	EC0561B2	EC0561B3
		SOLOdrive	SOLOdrive 563/B	SL0563B2	SL0563B3
			SOLOdrive 564/B	SL0564B2	SL0564B3
S	10W	ECOdrive	ECOdrive 160/S	EC0160S1	EC0160S3
			ECOdrive 161/S	EC0161S1	EC0161S3
		SOLOdrive	SOLOdrive 160/S	SL0160S1	SL0160S3
			SOLOdrive 161/S	SL0161S1	SL0161S3
	20W	ECOdrive	ECOdrive 260/S	EC0260S1	EC0260S2
			ECOdrive 261/S	EC0261S1	EC0261S2
		SOLOdrive	SOLOdrive 260/S	SL0260S1	SL0260S2
			SOLOdrive 261/S	SL0261S1	SL0261S2
	30W	ECOdrive	ECOdrive 360/S	EC0360S2	EC0360S3
			ECOdrive 361/S	EC0361S2	EC0361S3
		SOLOdrive	SOLOdrive 360/S	SL0360S2	SL0360S3
			SOLOdrive 361/S	SL0361S2	SL0361S3

Table 2: 50W /S & /A drivers.

Form Factor	Power	Family	Product	Legacy Part Number	New Part Number
S	50W	ECOdrive	ECOdrive 560/S	EC0560S2	EC0560S3
			ECOdrive 561/S	EC0561S2	EC0561S3
		SOLOdrive	SOLOdrive 563/S	SL0563S2	SL0563S3
			SOLOdrive 564/S	SL0564S2	SL0564S3
A	50W	ECOdrive	ECOdrive 560/A	EC0560A3	EC0560A4
			ECOdrive 561/A	EC0561A3	EC0561A4
		SOLOdrive	SOLOdrive 560/A	SL0560A2	SL0560A3
			SOLOdrive 561/A	SL0561A3	SL0561A4
		DUALdrive	DUALdrive 560/A	DL0560A2	DL0560A3

Table 3: 30W/50W /L drivers.

Form Factor	Power	Family	Product	Legacy Part Number	New Part Number
L	30W	ECOdrive	ECOdrive 365/L	EC0365L2	EC0365L3
			ECOdrive 366/L	EC0366L2	EC0366L3
			ECOdrive 368/L	EC0368L2	EC0368L3
			ECOdrive 365/L	EC0368L2-NLIGHTAIR	EC0368L3-NLIGHTAIR
		SOLOdrive	SOLOdrive 365/L	SL0365L2	SL0365L3
			SOLOdrive 366/L	SL0366L2	SL0366L3
			SOLOdrive 368/L	SL0368L2	SL0368L3
			SOLOdrive 365/L	SL0368L2-NLIGHTAIR	SL0368L3-NLIGHTAIR
	50W	ECOdrive	ECOdrive 565/L	EC0565L2	EC0565L3
			ECOdrive 566/L	EC0566L2	EC0566L3
			ECOdrive 568/L	EC0568L2	EC0568L3
			ECOdrive 565/L	EC0568L2-NLIGHTAIR	EC0568L3-NLIGHTAIR
		SOLOdrive	SOLOdrive 565/L	SL0565L2	SL0565L3
			SOLOdrive 566/L	SL0566L2	SL0566L3
			SOLOdrive 568/L	SL0568L2	SL0568L3
			SOLOdrive 565/L	SL0568L2-NLIGHTAIR	SL0568L3-NLIGHTAIR
SOLOdrive	SOLOdrive 560/L	SL0560L1	SL0560L3		
	SOLOdrive 560/L	SL0560L2			
	SOLOdrive 561/L	SL0561L1	SL0561L3		
	SOLOdrive 561/L	SL0561L2			
DUALdrive	DUALdrive 560/L	DL0560L1	DL0560L3		
			DL0560L2		

Table 4: 20W/30W/50W /U drivers.

Form Factor	Power	Family	Product	Legacy Part Number	New Part Number
U	20W	ECOdrive	ECOdrive 265/U	EC0265U1	EC0265U2
			ECOdrive 266/U	EC0266U1	EC0266U2
			ECOdrive 268/U	EC0268U1	EC0268U2
		SOLOdrive	SOLOdrive 265/U	SL0265U1	SL0265U2
			SOLOdrive 266/U	SL0266U1	SL0266U2
			SOLOdrive 268/U	SL0268U1	SL0268U2
			SOLOdrive 260/U	SL0260U1	SL0260U2
			SOLOdrive 261/U	-	SL0261U1
		DUALdrive	DUALdrive 260/U	DL0260U1	DL0260U2
	30W	ECOdrive	ECOdrive 365/U	EC0365U1	EC0365U2
			ECOdrive 366/U	EC0366U1	EC0366U2
			ECOdrive 368/U	EC0368U1	EC0368U2
		SOLOdrive	SOLOdrive 365/U	SL0365U1	SL0365U2
			SOLOdrive 366/U	SL0366U1	SL0366U2
			SOLOdrive 368/U	SL0368U1	SL0368U2
			SOLOdrive 360/U	SL0360U1	SL0360U2
			SOLOdrive 361/U	-	SL0361U1
		DUALdrive	DUALdrive 360/U	DL0360U1	DL0360U2
	50W	ECOdrive	ECOdrive 565/U	EC0565U1	EC0565U2
			ECOdrive 566/U	EC0566U1	EC0566U2
			ECOdrive 568/U	EC0568U1	EC0568U2
SOLOdrive		SOLOdrive 565/U	SL0565U1	SL0565U2	
		SOLOdrive 566/U	SL0566U1	SL0566U2	
		SOLOdrive 568/U	SL0568U1	SL0568U2	
		SOLOdrive 560/U	SL0560U2	SL0560U3	
		SOLOdrive 561/U	SL0561U2	SL0561U3	
DUALdrive		DUALdrive 560/U	DL0560U1	DL0560U2	

Table 5: 20W /A & /M, and 30W /A drivers.

Form Factor	Power	Family	Product	Legacy Part Number	New Part Number	
A	20W	ECODrive	ECODrive 240/A	EC0240A1	EC0240A2	
			ECODrive 241/A	EC0241A1	EC0241A2	
			ECODrive 247/A	EC0247A1	EC0247A2	
		SOLOdrive	SOLOdrive 240/A	SL0240A1	SL0240A2	
			SOLOdrive 241/A	SL0241A1	SL0241A2	
			SOLOdrive 247/A	SL0247A1	SL0247A2	
	30W	ECODrive	ECODrive 360/A	EC0360A4	EC0360A5	
			ECODrive 361/A	EC0361A4	EC0361A5	
			ECODrive 367/A	-	EC0367A5	
		SOLOdrive	SOLOdrive 360/A	SL0360A4	SL0360A5	
			SOLOdrive 361/A	SL0361A4	SL0361A5	
			SOLOdrive 367/A	-	SL0367A5	
	M	20W	ECODrive	ECODrive 240/M	EC0240M1	EC0240M2
				ECODrive 241/M	EC0241M1	EC0241M2
				ECODrive 247/M	EC0247M1	EC0247M2
SOLOdrive			SOLOdrive 240/M	SL0240M1	SL0240M2	
			SOLOdrive 241/M	SL0241M1	SL0241M2	
			SOLOdrive 247/M	SL0247M1	SL0247M2	

Table 6: ECODrive 100W/M & /S drivers.

Form Factor	Power	Family	Product	Legacy Part Number	New Part Number			
M	100W	ECODrive	ECODrive 1065/M	EC1065M1	EC1065M2			
				EC1065M1-CCC	EC1065M3-CCC			
				EC1065M2-CCC	EC1065M3-CCC			
				ECODrive 1066/M	EC1066M1	EC1066M2		
					EC1066M1-CCC	EC1066M3-CCC		
					EC1066M2-CCC	EC1066M3-CCC		
			ECODrive 1068/M	EC1068M1	EC1068M2			
				EC1068M1-CCC	EC1068M2-CCC			
			S	100W	ECODrive	ECODrive 1065/S	EC1065S1	EC1065S2
							EC1065S1-CCC	EC1065S3-CCC
							EC1065S2-CCC	EC1065S3-CCC
							ECODrive 1066/S	EC1066S1
EC1066S1-CCC	EC1066S3-CCC							
EC1066S2-CCC	EC1066S3-CCC							
ECODrive 1068/S	EC1068S1	EC1068S2						
	EC1068S1-CCC	EC1068S2-CCC						