




DRIVING QUALITY OF LIGHT™

# LED Driver Compatibility Reference for Lutron Athena Wireless Node (AWN)

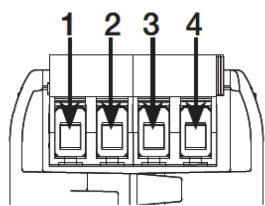
Constant Current drivers listed below are programmable dim-to-off for compliance with ANSI C137.1.

ERP Constant Current Driver Series	Input Voltage (Vac)	ERP Part Number	Max. Output Power (W)	Output Current (mA)	Output Voltage (Vdc)	Dimensions - L x W x H	Dimming Method	Emergency Support	Notes
<b>PLS</b> 	120-277	PLS-A20W-07-55-TXZ	20	100 to 700	10 to 55	257 x 29.4 x 25.4 (mm) 10.1 x 1.2 x 1.0 (in.)	Programmable 0-10 V	Yes	Provided with Auxiliary Output
		PLS-A30W-10-55-TXZ	30	275 to 1050	10 to 55				
		PLS-A50W-14-55-TXZ	50	500 to 1400	10 to 55				
		PLS-A65W-18-55-TXZ	65	600 to 1800	10 to 55				
		PLS-B85W-23-55-TXZ	85	700 to 2300	10 to 55				
		PLS-B95W-27-55-TXZ	95	900 to 2750	10 to 55				

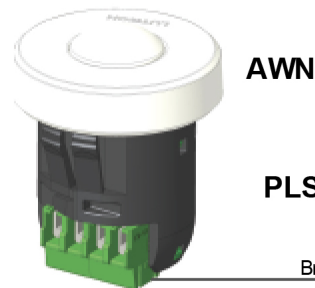
ERP Constant Current Driver Series	Input Voltage (Vac)	ERP Part Number	Max. Output Power (W)	Output Current (mA)	Output Voltage (Vdc)	Dimensions - L x W x H	Dimming Method	Emergency Support	Notes
<b>PRH</b> 	120-277	PRH-A20W-07-55-SXZ	20	100 to 700	10 to 55	84 x 40 x 19.25 (mm) 3.30 x 1.57 x 0.76 (in.)	Programmable 0-10 V	Yes	Provided with Auxiliary Output
		PRH-A30W-10-55-SXZ	30	275 to 1050	10 to 55				
		PRH-A50W-14-55-SXZ	50	500 to 1400	10 to 55				

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<b>PLH</b> 	120-277	PLH-A20W-07-55-SXZ	20	100 to 700	10 to 55	197.4 x 19.65 x 19.25 (mm) 7.77 x 0.77 x 0.76 (in.)	Programmable 0-10 V	Yes	Provided with Auxiliary Output
		PLH-A30W-10-55-SXZ	30	275 to 1050	10 to 55				
		PLH-A50W-14-55-SXZ	50	500 to 1400	10 to 55				
		PLH-A65W-18-55-SXZ	65	600 to 1800	10 to 55				

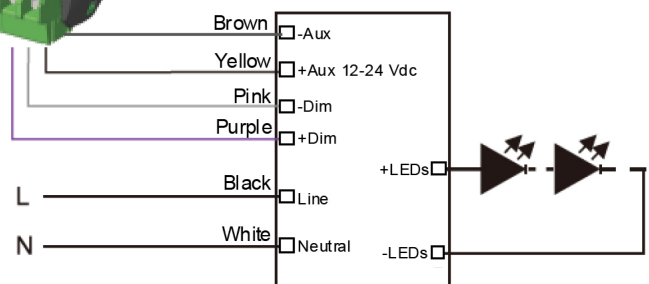
### Athena Wireless Node (AWN) Wiring Guide:



Athena Connector Description	ERP LED Driver Wiring
1: AUX+	+Aux (Yellow)
2: AUX-	-Aux (Brown)
3: SIG+	+Dim (Purple)
4: SIG-/DGND	-Dim (Pink)



### PLS / PLH / PRH driver series With Auxiliary Output





### Connecting an AWN to an ERP LED Driver with Auxiliary Output (e.g. PLS, PLH, PRH series):


- Connect the AUX+ of AWN to the +Aux (yellow) wire of the ERP LED Driver
- Connect the AUX- of AWN to the -Aux (brown) wire of the ERP LED Driver
- Connect the SIG+ of AWN to the +Dim (purple) of the ERP LED Driver
- Connect the SIG- of AWN to the -Dim (pink) of the ERP LED Driver


Constant Current drivers listed below are programmable dim-to-off for compliance with ANSI C137.1.

**NOTE:** ERP recommends that the Fixture OEM should include Lutron DFC-OEM-DBI DALI Bus power supply.

ERP Constant Current Driver Series	Input Voltage (Vac)	ERP Part Number	Max. Output Power (W)	Output Current (mA)	Output Voltage (Vdc)	Dimensions - L x W x H	Dimming Method	Emergency Support
<b>PLS</b> 	120–277	PLS-A20W-07-55-TZ	20	100 to 700	10 to 55	257 x 29.4 x 25.4 (mm) 10.1 x 1.2 x 1.0 (in.)	Programmable 0–10 V	Yes
		PLS-A30W-10-55-TZ	30	275 to 1050	10 to 55			
		PLS-A50W-14-55-TZ	50	500 to 1400	10 to 55			
		PLS-A65W-18-55-TZ	65	600 to 1800	10 to 55			
		PLS-B85W-23-55-TZ	85	700 to 2300	10 to 55			
		PLS-B95W-27-55-TZ	95	900 to 2750	10 to 55			


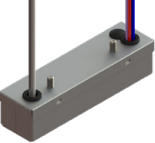
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<b>PRH</b> 	120–277	PRH-A20W-07-55-SZ	20	100 to 700	10 to 55	84 x 40 x 19.25 (mm) 3.30 x 1.57 x 0.76 (in.)	Programmable 0–10 V	Yes
		PRH-A30W-10-55-SZ	30	275 to 1050	10 to 55			
		PRH-A50W-14-55-SZ	50	500 to 1400	10 to 55			


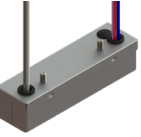
ERP Constant Current Driver Series	Input Voltage (Vac)	ERP Part Number	Max. Output Power (W)	Output Current (mA)	Output Voltage (Vdc)	Dimensions - L x W x H	Dimming Method	Emergency Support
<b>PLH</b> 	120–277	PLH-A20W-07-55-SZ	20	100 to 700	10 to 55	197.4 x 19.65 x 19.25 (mm) 7.77 x 0.77 x 0.76 (in.)	Programmable 0–10 V	Yes
		PLH-A30W-10-55-SZ	30	275 to 1050	10 to 55			
		PLH-A50W-14-55-SZ	50	500 to 1400	10 to 55			
		PLH-A65W-18-55-SZ	65	600 to 1800	10 to 55			

ERP Constant Current Driver Series	Input Voltage (Vac)	ERP Part Number	Max. Output Power (W)	Output Current (mA)	Output Voltage (Vdc)	Dimensions - L x W x H	Dimming Method	Emergency Support
<b>PTB</b> 	120–277	PTB10W-0250-42-ZN	10.5	150 to 250	28 to 42	70 x 40 x 29.5 (mm) 2.76 x 1.57 x 1.16 (in.)	Programmable 0–10 V	Yes
		PTB20W-0420-42-ZN	17.6	250 to 420	28 to 42			
		PTB30W-0700-42-ZN	29.4	420 to 700	28 to 42			

Constant Current drivers listed below are programmable dim-to-off for compliance with ANSI C137.1.


**NOTE:** ERP recommends that the Fixture OEM should include Lutron DFC-OEM-DBI DALI Bus power supply.

ERP Constant Current Driver Series	Input Voltage (Vac)	ERP Part Number	Max. Output Power (W)	Output Current (mA)	Output Voltage (Vdc)	Dimensions - L x W x H	Dimming Method	Emergency Support	Notes
<b>PHB</b>   Side Leads   Bottom Leads with Studs	120-277	PHB15W-0300-34	10.2	150 to 300	23 to 34	132.2 x 30.6 x 20.7 (mm) 4.07 x 1.03 x 0.94 (in.)	Programmable 0-10 V	Yes	Side Leads
		PHB30W-0500-42	21	250 to 500	28 to 42				
		PHB30W-0700-42	29.4	350 to 700	28 to 42				
		PHB30W-0700-34	23.8	350 to 700	23 to 34				
		PHB50W-0850-56	47.6	425 to 850	38 to 56				
		PHB50W-1200-42	50.4	600 to 1200	28 to 42				
		PHB30W-0500-42S	21	250 to 500	28 to 42	132.2 x 30.6 x 20.7 (mm) 4.07 x 1.03 x 0.94 (in.)	Programmable 0-10 V	Yes	Bottom Leads with Studs
		PHB30W-0700-42S	29.4	350 to 700	28 to 42				
		PHB50W-0850-56	47.6	425 to 850	38 to 56				
		PHB50W-1200-42	50.4	600 to 1200	28 to 42				

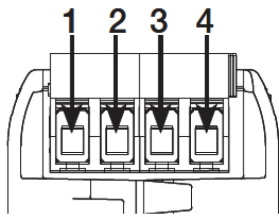
ERP Constant Current Driver Series	Input Voltage (Vac)	ERP Part Number	Max. Output Power (W)	Output Current (mA)	Output Voltage (Vdc)	Dimensions - L x W x H	Dimming Method	Emergency Support	Notes
<b>PSB</b>   Side Leads   Bottom Leads with Studs	120-277	PSB15W-0300-38	11.4	150 to 300	26 to 38	98.5 x 26.0 x 21.85 (mm) 3.88 x 1.02 x 0.86 (in.)	Programmable 0-10 V	Yes	Side Leads
		PSB30W-0700-34	23.8	250 to 500	23 to 34				
		PSB30W-0700-42	29.4	350 to 700	28 to 42				
		PSB30W-1050-27	28.4	350 to 700	18 to 27				
		PSB40W-1400-27	37.8	700 to 1400	18 to 27				
		PSB50W-0850-56	47.6	425 to 850	38 to 56				
		PSB50W-1200-42	50.4	600 to 1200	28 to 42				
		PSB50W-1400-34	47.6	700 to 1400	23 to 34				
		PSB30W-0700-34-S	23.8	250 to 500	23 to 34	98.5 x 26.0 x 23.7 (mm) 3.88 x 1.02 x 0.93 (in.)	Programmable 0-10 V	Yes	Bottom Leads with Studs
		PSB30W-0700-42-S	29.4	350 to 700	28 to 42				
		PSB30W-1050-27-S	28.4	350 to 700	18 to 27				
		PSB40W-1400-27-S	37.8	700 to 1400	18 to 27				
		PSB50W-0850-56-S	47.6	425 to 850	38 to 56				
		PSB50W-1200-42-S	50.4	600 to 1200	28 to 42				
PSB50W-1400-34-S	47.6	700 to 1400	23 to 34						

Constant Current drivers listed below are programmable dim-to-off for compliance with ANSI C137.1.

**NOTE:** ERP recommends that the Fixture OEM should include Lutron DFC-OEM-DBI DALI Bus power supply.

ERP Constant Current Driver Series	Input Voltage (Vac)	ERP Part Number	Max. Output Power (W)	Output Current (mA)	Output Voltage (Vdc)	Dimensions - L x W x H	Dimming Method	Emergency Support
<b>PLB D4i</b> 	120-277	<b>PLB15W-0300-38-D4i</b>	11.4	100 to 300	26 to 38	223.1 x 18.25 x 18.65 (mm) 8.78 x 0.72 x 0.73 (in.)	DALI D4i	Yes
		<b>PLB30W-0600-38-D4i</b>	22.8	300 to 600	26 to 38			
		<b>PLB50W-1200-38-D4i</b>	45.6	600 to 1200	26 to 38			

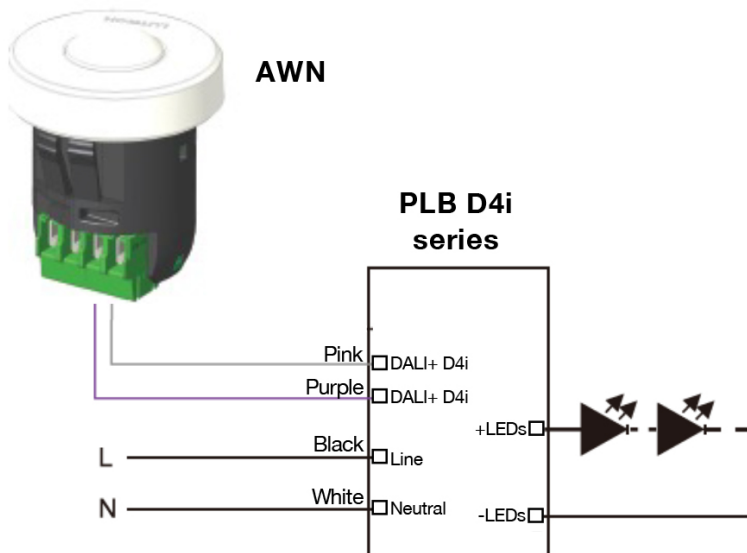
### Athena Wireless Node (AWN) Wiring Guide:



Athena Connector Description DALI Function	ERP PLB D4i Driver Wiring
1: DA	DALI+ D4i (Purple)
2: DA	DALI- D4i (Pink)
3: N/C	+Dim (Purple)
4: N/C	-Dim (Pink)


### Connecting an AWN to the PLB D4i LED Driver:

- Connect terminal 1 of Athena to the DALI+ D4i (purple) wire of the PLB D4i LED Driver
- Connect terminal 2 of Athena to the DALI- D4i (pink) wire of the PLB D4i LED Driver



**Constant Voltage drivers listed below are programmable dim-to-off for compliance with ANSI C137.1.**

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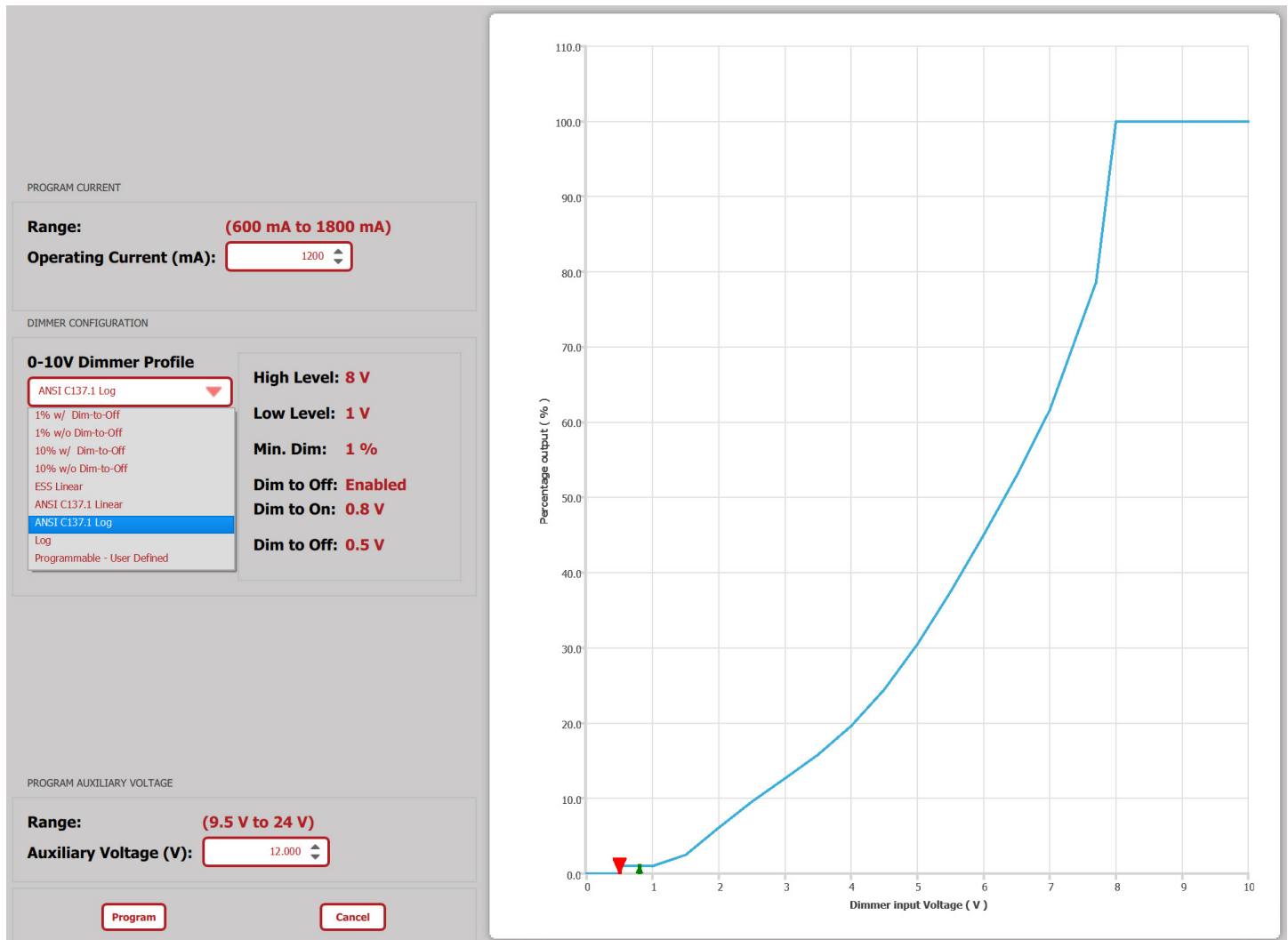
ERP Constant Voltage Driver Series	Input Voltage (Vac)	ERP Part Number	Max. Output Power (W)	Output Voltage (Vdc)	Output Current (A)	Dimensions - L x W x H	Dimming Method	Emergency Support	Notes
<b>VZM</b> 	120 & 277	<b>VZM060W-24</b>	60	24	0.25 to 2.50	150.2 x 38.8 x 24.9 (mm) 5.91 x 1.53 x 0.98 (in.)	Programmable 0–10 V	Yes	Side Leads
		<b>VZM060W-48</b>	60	48	0.13 to 1.25				
		<b>VZM100W-24</b>	100	24	0.38 to 3.75				
		<b>VZM100W-48</b>	100	48	0.19 to 1.87				

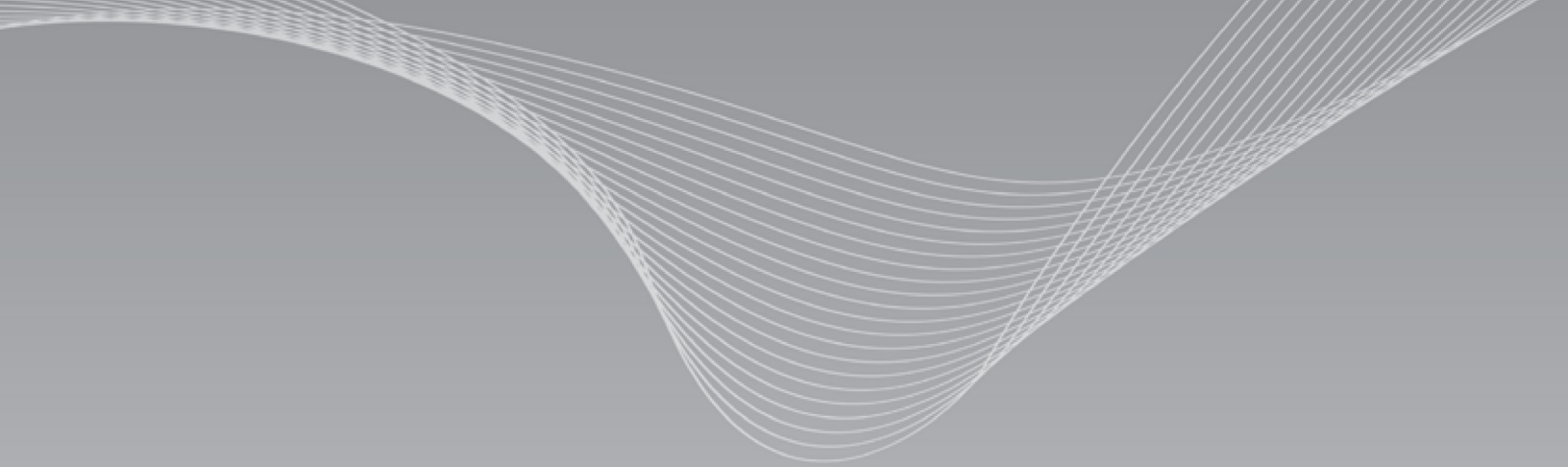
### APPLICATION NOTE:

The logarithmic 0-10 V dimming profile applies to all Constant Current and Constant Voltage LED drivers.

- Lutron recommends utilizing a logarithmic 0-10 V dimming profile at the driver level to achieve optimal dimming performance.
- The ANSI C137.1-compliant logarithmic 0-10 V dimming profile may be selected from the available drop-down dimming options within the ERP LED Driver Configuration Tool (ERP GUI), which is accessible for download on the ERP programming website:

[erp-power.com/erp-light-engines/led-light-programming-software/](http://erp-power.com/erp-light-engines/led-light-programming-software/)





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