

# ATX LED

**100% DC low voltage**

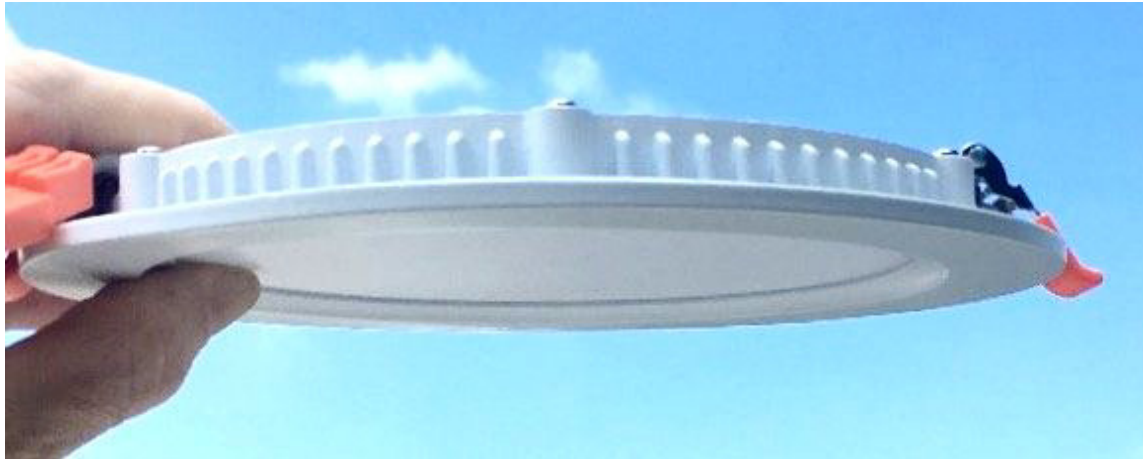
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Austin Tx, 78701  
512 377 6052  
<http://atx-led.com>

**LED Fixtures – Low Voltage  
Direct 48v Operation  
Built-In current limiter**

**P023R6 series, CV  
(P023R11 series, CV)**

**ETL 5005242 / UL 1598**

**Bright Cool LEDs**



## Product Description - low profile long life LED fixture

The P023R series of LED fixtures are ETL listed and IC rated for direct contact with insulation – recognizing it's cool operating temperatures and distributed heat ( no hot spots).

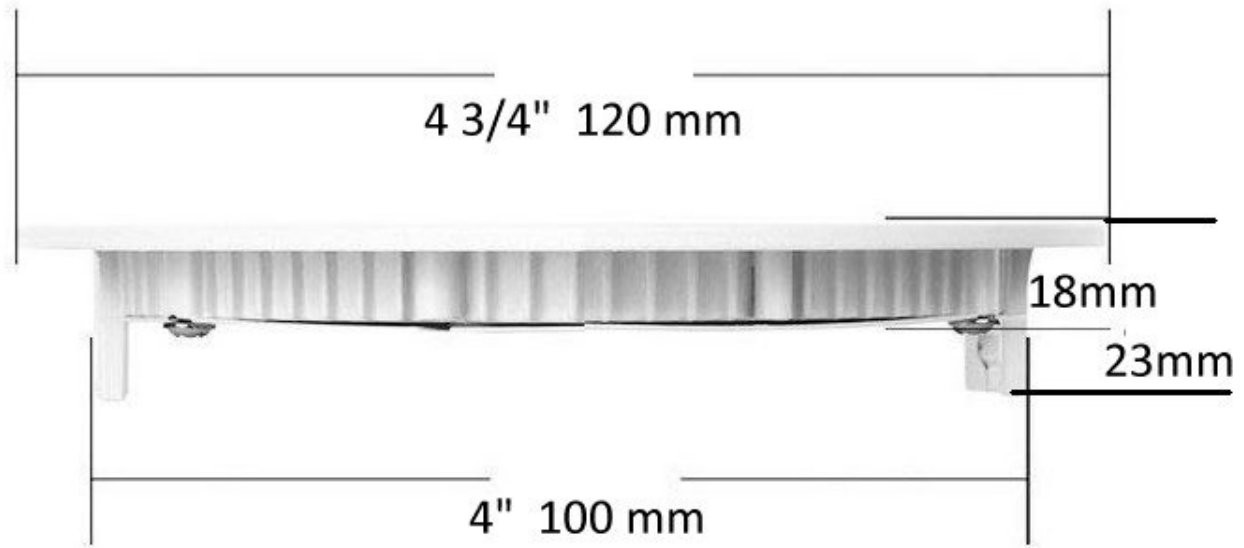
## Technical specifications

CRI	90
P023R6 wattage, current	6 watts 0 to120 mA
P023R11 wattage, current	12 watts 0 to240 mA
Inrush Current	120 mA max / 240mA max
Dimming Range	Individual: 0 to 100% Circuit: 2.5% to 100% recommended
Color Temperature	4 options available
Operating Voltage	44 to 52 volts
Recommended wiring	Parallel wiring method
Constant Voltage	Operates from a DC – no current limiting required
Operating Temperature	Ceiling mount, -20 to 50 Deg C non condensing
IP Rating	Suitable for Damp environments
IC Rated	Yes, (see AL-CBOX4 Fire Rated Rough In box)
LED Type	2835
Connector	OJ-606 ( male/female set included)

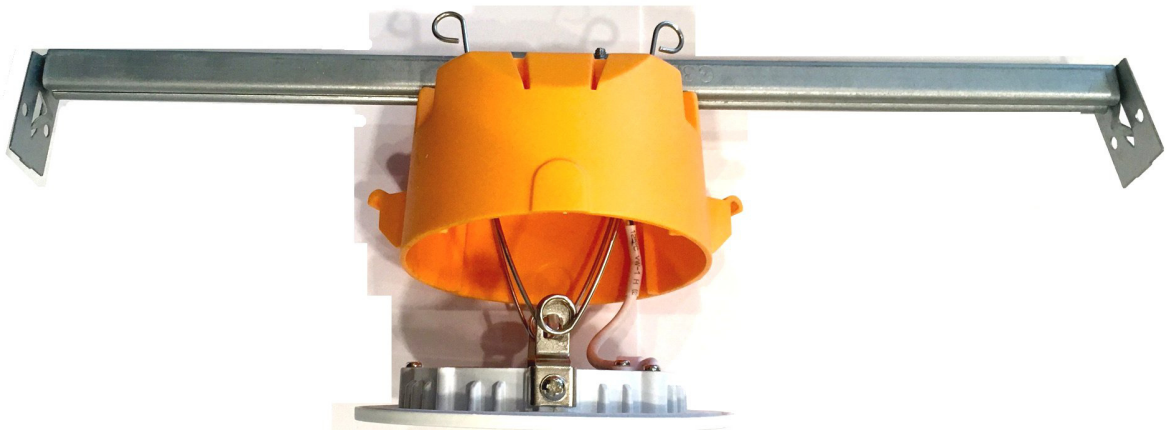
**4 inch style**

**Panel Style LED Wafers – Low Voltage Dimmable**

**P023R6 ( 6 Watts )**



[AL-CBOX4 ceiling mount Options](#)



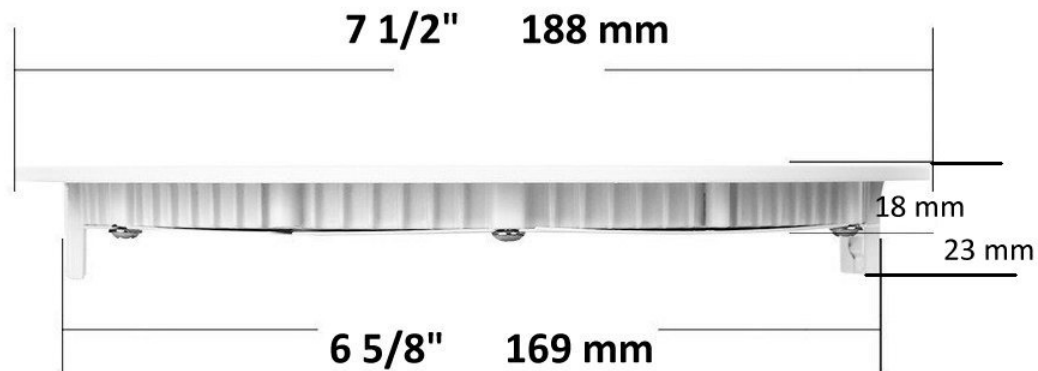
**AL-CBOX4** mounting hanger bar

16 to 24 inch joist spacing  
Supports up to 20 lbs  
Flat or vertical truss attachment  
See **AL-CBOX4.pdf**

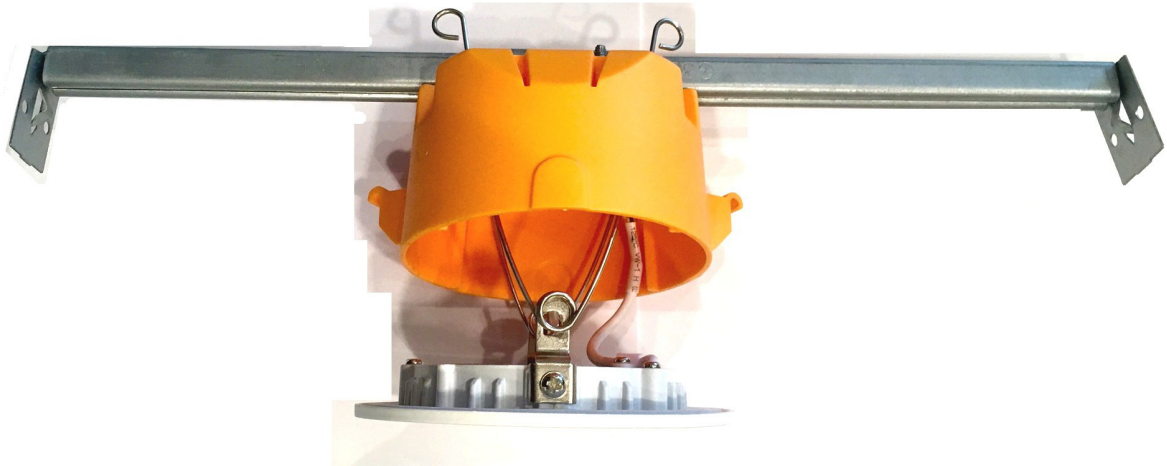
## 6 Inch series

### Panel Style LED Wafers – Low Voltage Dimmable

#### P023R11 ( 12 Watts )



### [AL-CBOX6 ceiling mount Options](#)



**AL-CBOX6** mounting hanger bar

16 to 24 inch joist spacing  
Supports up to 20 lbs  
Flat or vertical truss attachment  
See **AL-CBOX6.pdf**

## Color Temperature options

Available in different color temperatures, these fixtures can be operated as a fixed color. Any 48 volt supply can be used. Up to 16x 6 watt or 8x 12 watt fixtures can be wired in series to share simple On/Off switch. That driver can be located up to 150 ft from the LEDs – since constant current eliminates the concerns about voltage drop.

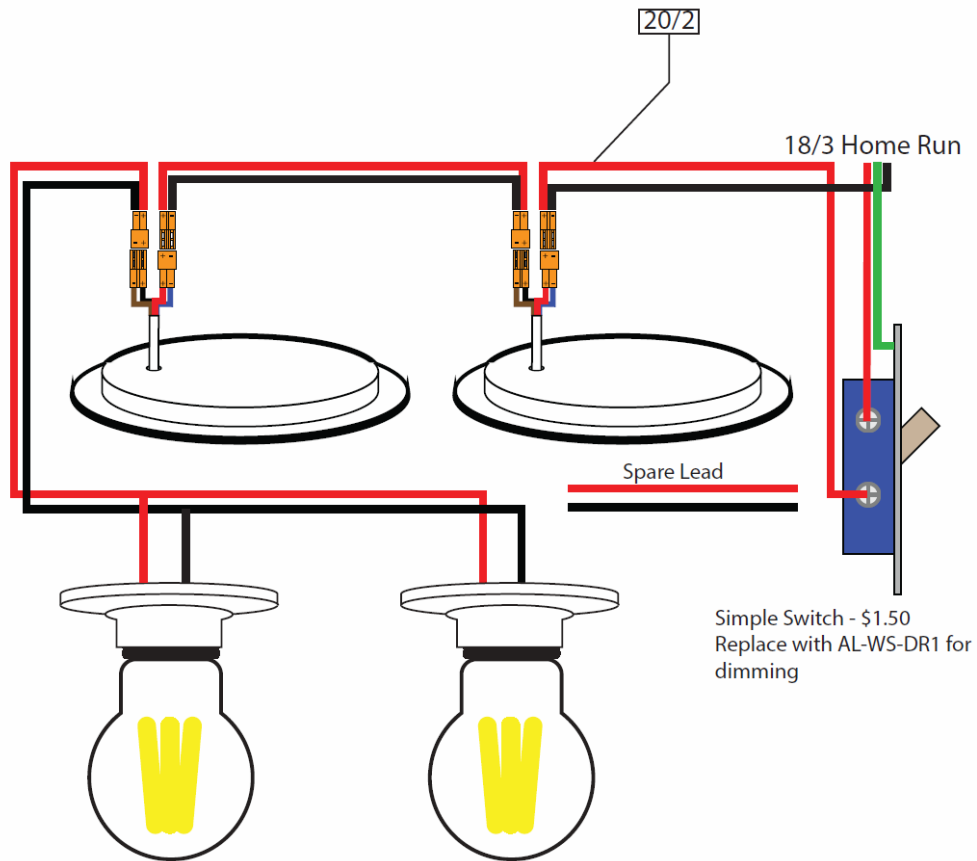
<b>Model</b>	<b>2700</b>	<b>3000</b>	<b>3500</b>	<b>4000</b>	<b>5000</b>
<b>Fixed</b>	*	X	X	X	*

X= Stock, \* = on request

## Ordering part numbers

<b>Model</b>	<b>Voltage</b>	<b>Current</b>	<b>CCT</b>	<b>CRI</b>	<b>Lumens</b>
<b>P023R6-48v6w-3000K</b>	44-52	0-120mA	3000K	90	540
<b>P023R6-48v6w-3500K</b>	44-52	0-120mA	3500K	90	540
<b>P023R6-48v6w-4000K</b>	44-52	0-120mA	4000K	90	540
<b>P023R11-48v12w-3000K</b>	44-52	0-240mA	3000K	90	1080
<b>P023R11-48v12w-3500K</b>	44-52	0-240mA	3500K	90	1080
<b>P023R11-48v12w-4000K</b>	44-52	0-240mA	4000K	90	1080

## Wiring example – upgradeable



## Recommended DC Drivers

**N = # of LEDs**

DC drivers *	Minimum Dimming	Fixed Color # of bulbs	WiFi	DALI
Any 48v Power supply	<b>On/Off</b>	16		
AL-WS-DR1	<b>5%</b>	<b>5</b>		
AL-WS-DR2	<b>1%</b>	<b>10</b>		<b>X</b>
AL-WS-DR2C	<b>1%</b>	<b>10</b>		
AL-WS-DR2W	<b>1%</b>	<b>10</b>	<b>X</b>	
AL-WS-DR4	<b>5%</b>	<b>16</b>		
AL-WS-DR4W	<b>5%</b>	<b>16</b>	<b>X</b>	
AL-WS-Bath	<b>5%</b>	<b>5</b>		
AL-WS-S2	<b>On/Off</b>	<b>10</b>		
AL-WS-S4	<b>On/Off</b>	<b>16</b>		

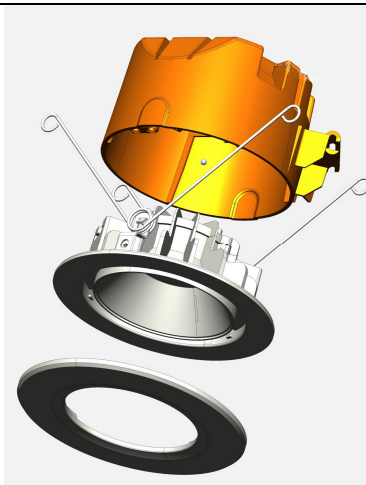
\*51 volt DC input

## Other LED Products from ATX LED

Model	Hole in Ceiling mm	Drill Size Inch	Finished Outside Diameter mm	Watts	Volts	Lm/W	mA	Wiring*
P023R6-660	102	4"	120	6	9	90	660	S
P023R6-48v6w	102	4"	120	6	48	90	120	P
P023R11-1440	169	6 5/8"	188	13	9	100	1440	S
P023R11-48v12W	110	4 1/4"	120	6.0	21	90	240	P
MS31008	70	3	85	5.4	9	90	600	S
DL-120	102	4	120	6	9	130	660	S
E26-A60	Bulb	-	-	6	9	80	660	S
E26-A60-48v6w	Bulb	-	-	6	48	80	120	P
E12-C35	Bulb	-	-	6	9	80	660	S
E12-C35-48v6w	Bulb	-	-	6	48	80	120	P
P023S12-1440	Strip	3/4	4500	13	9	120	1440	S

\*S is serial

\*P is parallel



**DL-120**



**DL-100**



**RL-E12**



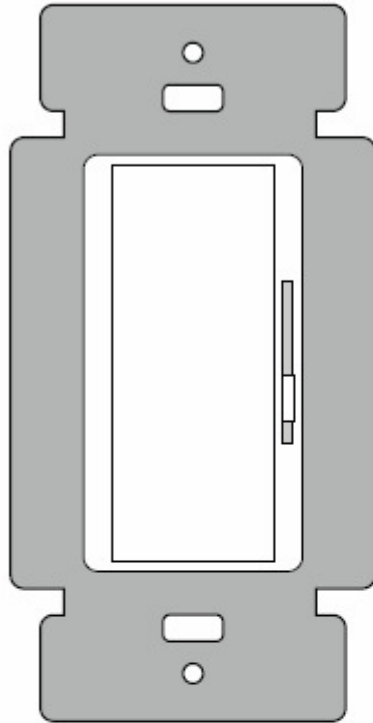
**ATX-E26**



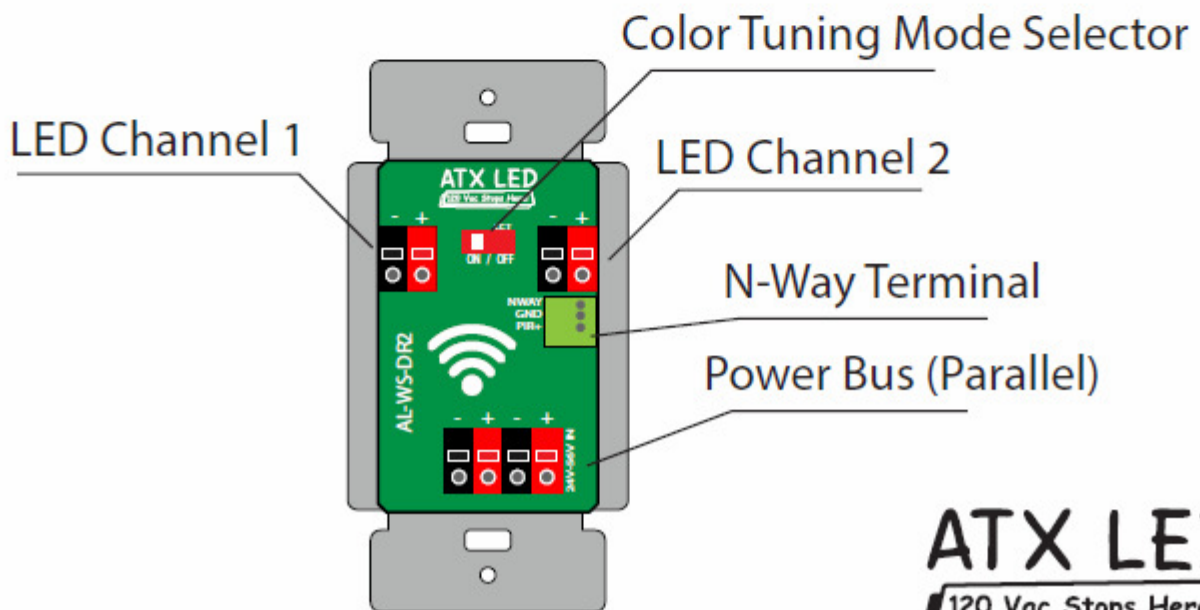
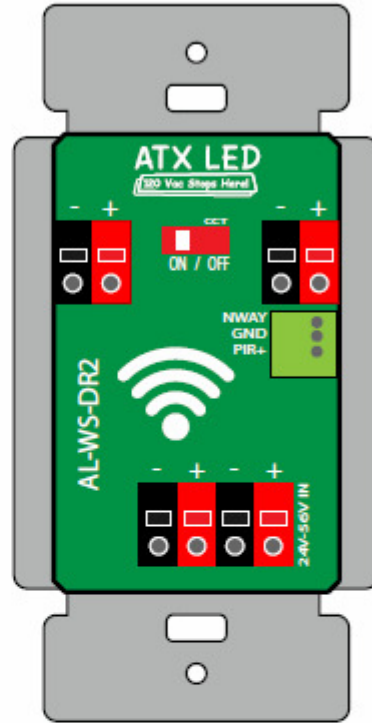
**RL-E26**

# Meet the DR2

The DR2 is the heart of the entire system. From the front it looks like a typical style wall switch with a slide dimmer. This is where the driver for the LEDs is located. The DR2 uses current control technology to provide perfect dimming to each of its corresponding LEDs. There are several different types of DR2 available, depending on application.



Front



**ATX LED**  
120 Vac Stops Here!