

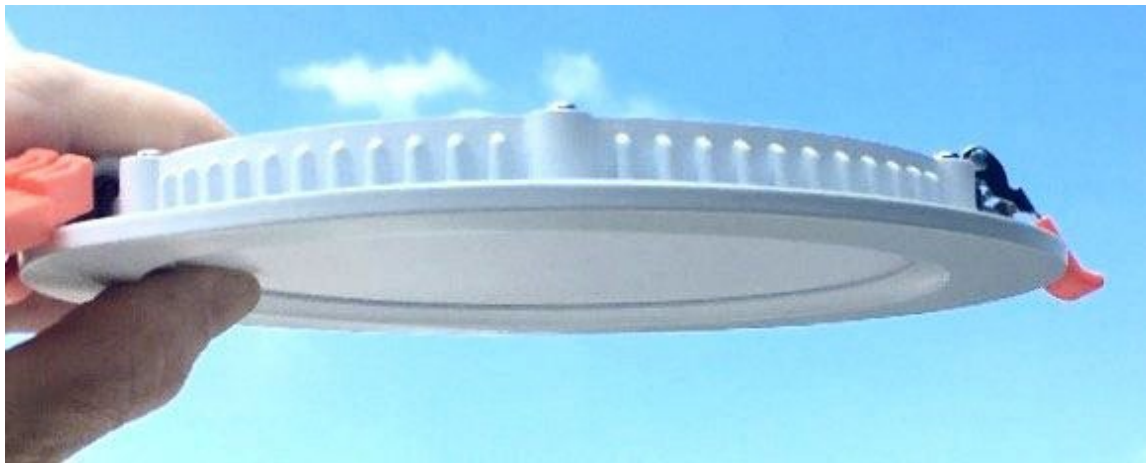


**LED Fixtures – Low Voltage
Direct 48v Operation
Built-In current limiter**

**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).

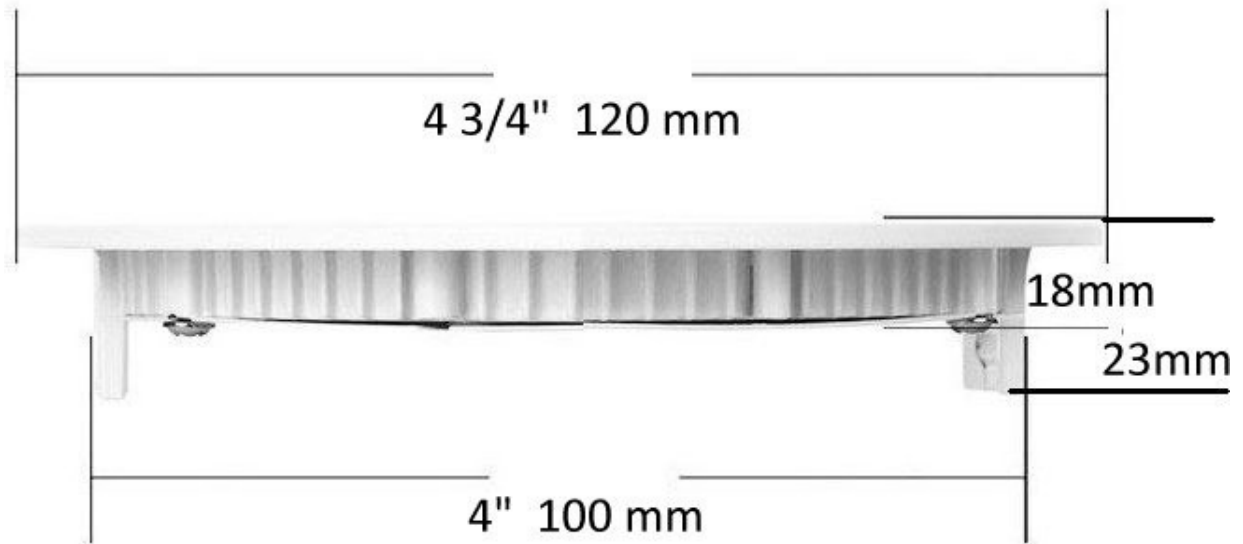
Technical specifications

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)

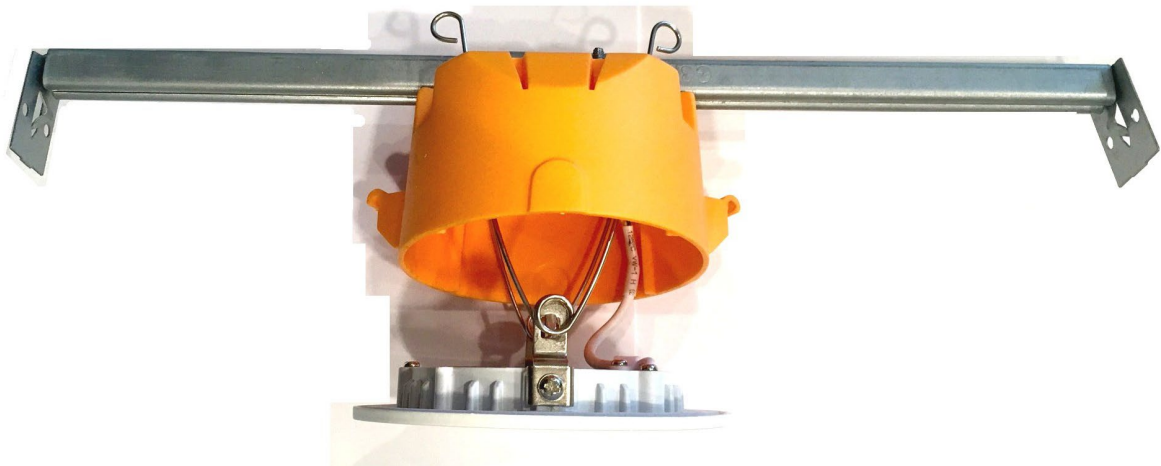
4 inch style

Panel Style LED Wafers – Low Voltage Dimmable

P023R6 (6 Watts)



[AL-CBOX4 ceiling mount Options](#)



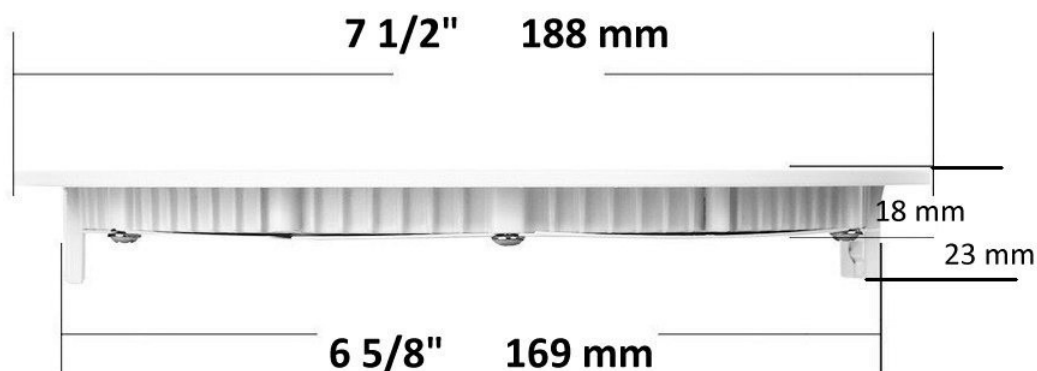
AL-CBOX4 mounting hanger bar

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

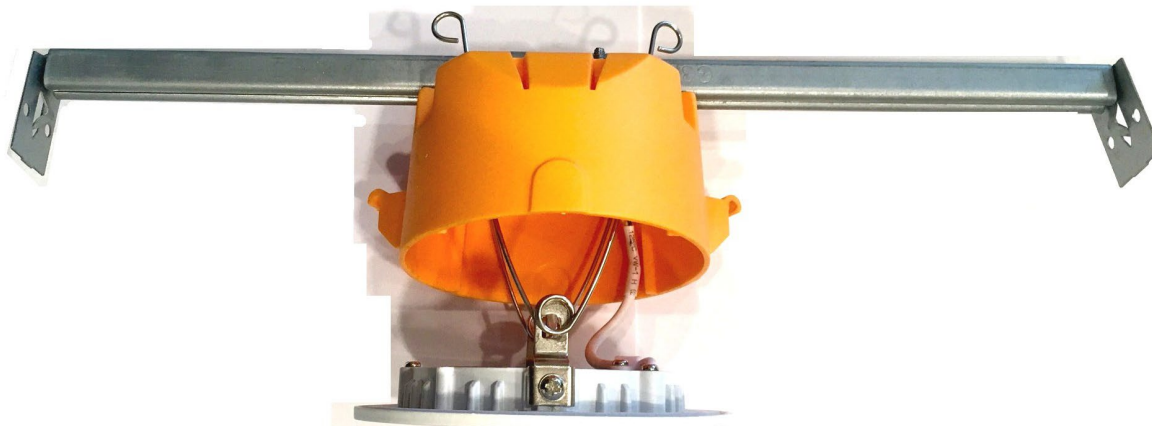
6 Inch series

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.

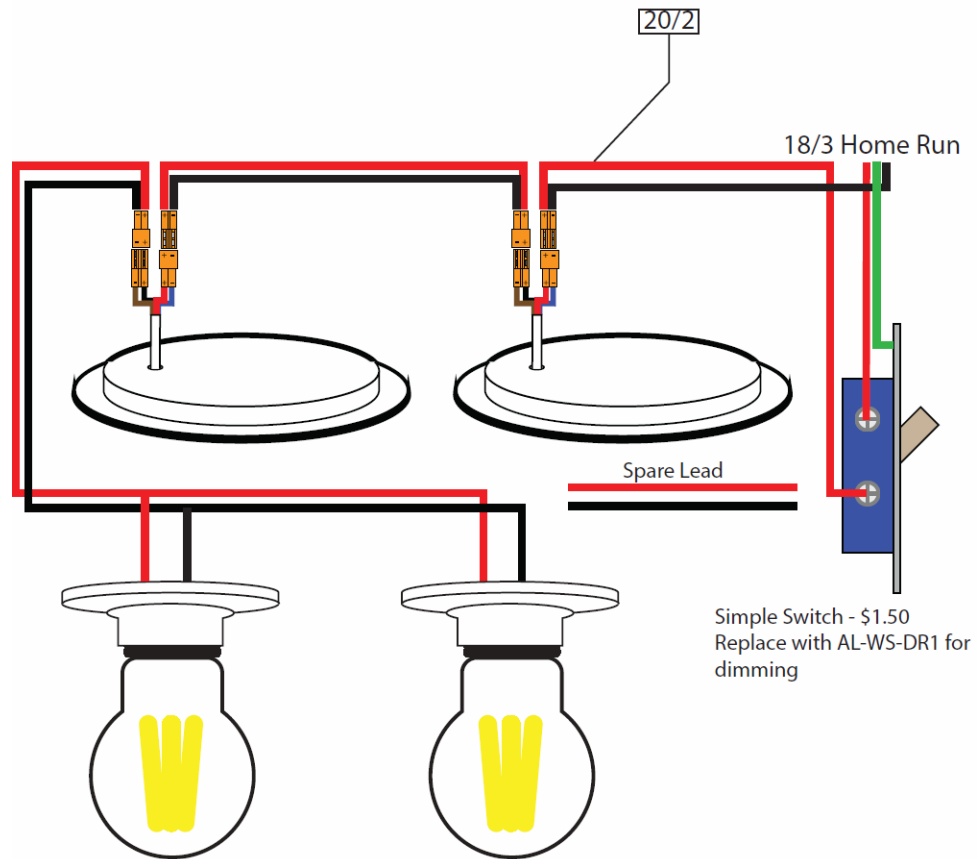
Model	2700	3000	3500	4000	5000
Fixed	*	X	X	X	*

X= Stock, * = on request

Ordering part numbers

Model	Voltage	Current	CCT	CRI	Lumens
P023R6-48v6w-3000K	44-52	0-120mA	3000K	90	540
P023R6-48v6w-3500K	44-52	0-120mA	3500K	90	540
P023R6-48v6w-4000K	44-52	0-120mA	4000K	90	540
P023R11-48v12w-3000K	44-52	0-240mA	3000K	90	1080
P023R11-48v12w-3500K	44-52	0-240mA	3500K	90	1080
P023R11-48v12w-4000K	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	On/Off	16		
AL-WS-DR1	5%	5		
AL-WS-DR2	1%	10		X
AL-WS-DR2C	1%	10		
AL-WS-DR2W	1%	10	X	
AL-WS-DR4	5%	16		
AL-WS-DR4W	5%	16	X	
AL-WS-Bath	5%	5		
AL-WS-S2	On/Off	10		
AL-WS-S4	On/Off	16		

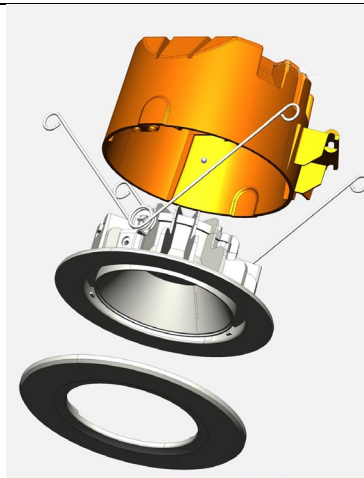
*51 volt DC input

Other LED Products from ATX LED

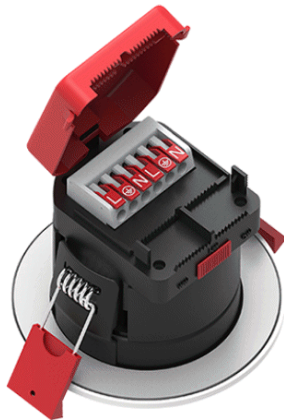
Model	Hole in Ceiling mm	Drill Size Inch	Finished Outside Diameter mm	Watts	Volts	Lm/W	mA	Wiring*
P023R6-660	102	4"	120	6	9	90	660	S
P023R6-48v6w	102	4"	120	6	48	90	120	P
P023R11-1440	169	6 5/8"	188	13	9	100	1440	S
P023R11-48v12W	110	4 1/4"	120	6.0	21	90	240	P
MS31008	70	3	85	5.4	9	90	600	S
DL-120	102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



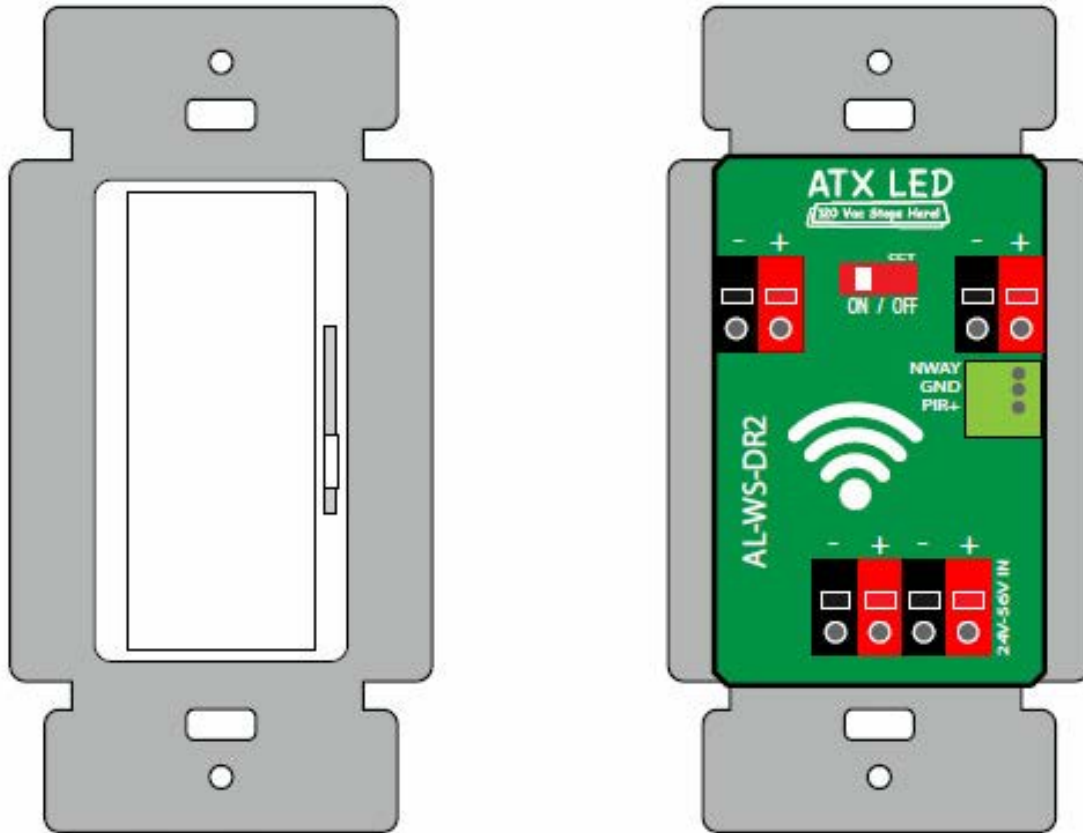
ATX-E26



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

