

P023R6-48V6W

LOW VOLTAGE LED WAFER LIGHT



4" Fixed Color LED Wafer Light (48 V)

The P023R6-48V6W LED light fixture provides high-quality true white LED light using low-voltage DC power. The P023R6-48V6W features direct 48 V DC operation and has a built-in current limiter.

The low profile of the P023R6 series creates a clean look in the finished ceiling and provides flicker-free and perfectly 0-100% dimmable lighting for new home construction. This LED fixture and AL-CBOX4 mounting solution allow code-compliant LED installations in single family or MDU with low voltage wiring.

Key Specifications

Electrical/Operational	
Wattage	6 W operating
Operating Voltage full brightness	44 to 52 V
Constant Voltage	Operates from DC; no current limiting required
Recommended Wiring	Series, 4 or 5 fixtures sharing one driver
Operating Current	0 to 120 mA, 38 to 44 volts
Operating Temperature	Ceiling mount, -20 to 50°C non-condensing
Photometrics/Optical	
Color Temperature	1 fixed option (3000K)
CRI	90
Dimming Range	Individual: 0 to 100%. Circuit: 2.5% to 100% recommended
Lumens	540

Features

- Fixed true white light
- 0-100% smooth dimming
- Zero flicker
- Integrated current limiter

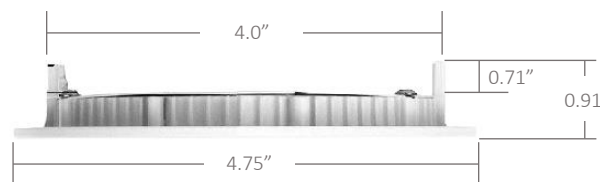
Certifications

- ETL 5005242/UL 1598 listed
- JA8/Title 24 compliant
- IC rated for direct contact with insulation
- Closet rated under NEC codes

Dimensions

The P023R6 is available in a 4-inch trim size.

Base width	4.0 in / 101.6 mm
Face width	4.75 in / 120.65 mm
Flange depth	0.71 in / 18 mm
Total depth	0.91 in / 23 mm



Wiring Options

The P023R6-48V fixtures are wired in parallel: up to 5 can be wired in parallel and share the 30 Watt drive ability of an ATX LED DR family driver. These are driverless designs: the driver can be located up to 50 ft from the LEDs using AWG20/2 wire since constant current eliminates the concerns about voltage drop.

- **DCC – Direct Current Controlled** – Signature line – see the P023R6-660MA
- **CV – Controlled by Voltage** – Value line – the brightness is constant from 44 to 52 V, and dimming down to 0% is possible over a 44 to 38 V range using any ATX LED wall switch, or a simple On/Off switch can be used with a 48v supply can be used.
- **CV-WiFi RGBW** – The brightness and color are controlled by WiFi, with scheduling and full cloud control with Alexa, Google, Siri and other smart home control interfaces. 48 V operation is the same as all ATX LED products.

Color Temperature Options

The P023R6-48V6W is available as a fixed true white color (300K). This fixture is also available as a wet-rated version that is suitable for wet environments, as indicated by the -W suffix.

Part Number	2700K <i>Soft White</i>	3000K <i>Bright White</i>	3500K <i>Neutral White</i>	3850K <i>Cool White</i>	4000K <i>Direct Sun</i>	5000K <i>Daylight</i>
P023R6-40V6W-3000K[-W]		+				

Recommended Drivers

Wall Switch Drivers	Fixed Color	Tunable White	Feature	DABus ¹
AL-WS-DR1	5		Value	
AL-WS-DR1-PIR	5		Motion	X
AL-WS-DR2	10	5	Smart	X
AL-WS-DR2C	10	5	Universal	
AL-WS-DR2W	10	5	WiFi	
AL-WS-BATH	5		Value	

NOTE:

1 - ATX LED Smart switches are compatible with the IEC62386 standard. For more information, please see <https://www.dali-alliance.org/dali/standards.html>

Part Numbering

