

ATX LED

<http://atx-led.com>

100% DC low voltage

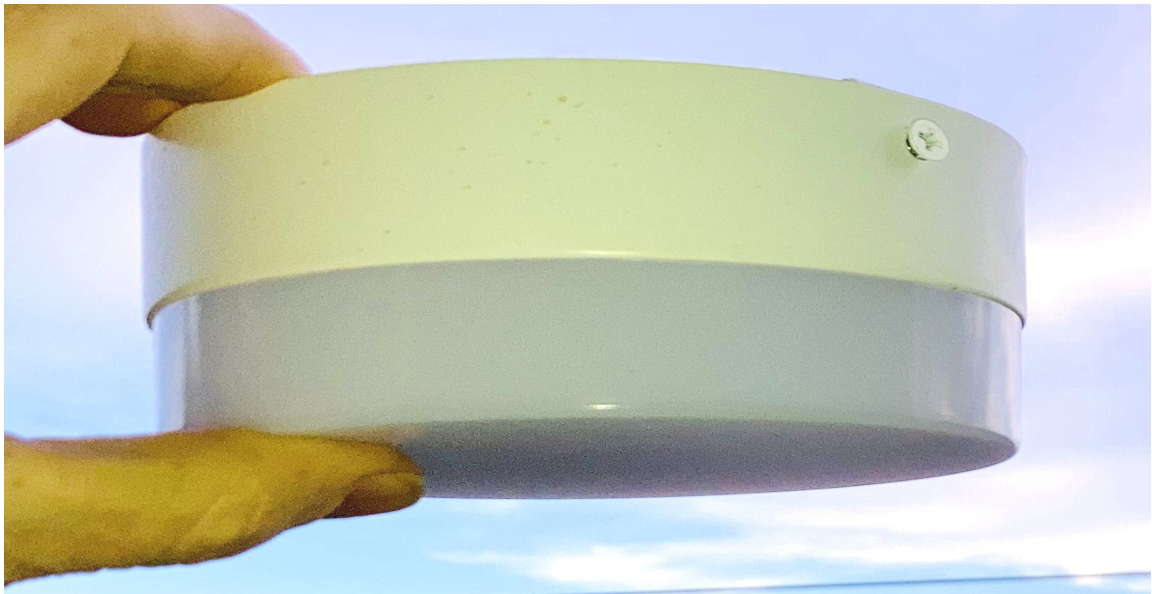
P023R6-F

**Low Voltage, dimmable
Flush Mounted LED
Direct Current Controlled**

P023R6-F series

ETL 5005242 (UL 1598 std)

Bright LEDs, Cool Operation



[Product Description - flush mount driverless LED fixture](#)

The F series of P023 LED fixtures are designed for fire rated ceiling projects in MDU applications – they require no large holes in the ceiling – and therefore preserve the fire protection offered by the ceiling itself.

Flush mounting hardware and 150 degree beam width provides ample light in low ceiling applications.

Very high CRI, lumen output, low heat, and no need for 120vac wire all insure the highest quality of light – critical in small rooms.

Mechanical and Lighting specifications

Case Color	Pure white – other colors on request
Diameter	120mm 6 watt (5 inch) 120mm 8 watt (5 inch) 180mm 18 watt (7 inch)
Height	57 mm (2.25 inches)
Dimming Range	0 to 100%, flicker free, no artifacts
CRI	CRI 90+
Lm/watt	Up to 120
Color Temperature	6 fixed options available plus tunable white
Operating Temperature	Ceiling mount, -20 to 50 Deg C non condensing
IP Rating	Suitable for Damp environments
IC Rated	Flush Mount - no contact with insulation
LM-80 rated	10,000 hours
LED type	2835 long life
Closet Rated	Suitable for use within Closet storage spaces when installed per NEC requirements. See https://atxled.com/Closets for more info
Motion Sensor	See P023R6-M for motion sensing
Other Options	Recessed (DL-120) Gimbal (DL-125) Surface (P023R6-S) Wafer (P023R6) Wet Rated (P023R6-W)
ETL listed	Yes

Electrical specifications CV version

Dimming Range	0 to 100%, flicker free, no artifacts		
Model	P023R18-F-51v 18w	P023R6-F-51v 6w	P023R8-F-51v 8w
Watts	18 (can be 6, 12 or 18 watts)	6	8
Lumens estimated (IES files expected August 2023)	1950	650	900
Operating mode	Voltage Controlled Dimming		
Operating Voltage @ full Brightness	51 volts		
Maximum allowed voltage	54 volts		
Internal Current Limiter	350 mA	115 mA	155 mA
Wiring Method	Parallel		
Dimming methods	Value (On/Off switches) KCR-PWM 96w dimming driver with Kinetic KCR-CC 34w dimming driver with Kinetic and fan support AL-SML-DR2-70CCT DALI AL-SML-DR2K-70CCT WiF / Kinetic		
Color Temp	3000, 3500		

Model	Voltage	Current	CCT	CRI	Watts
P023R18-F-51v18w-XX00K	45-51v	0-350mA	3000K 3500K 4000K	90+	6w 12w 18w @51v
P023R8-F-51v8w-XX00K	45-51v	0-155 mA*	3000K 3500K 4000K	90+	8w @51v
P023R6-F-51v6w-XX00K	45-51v	0-115 mA*	3000K 3500K 4000K	90+	6w @51v

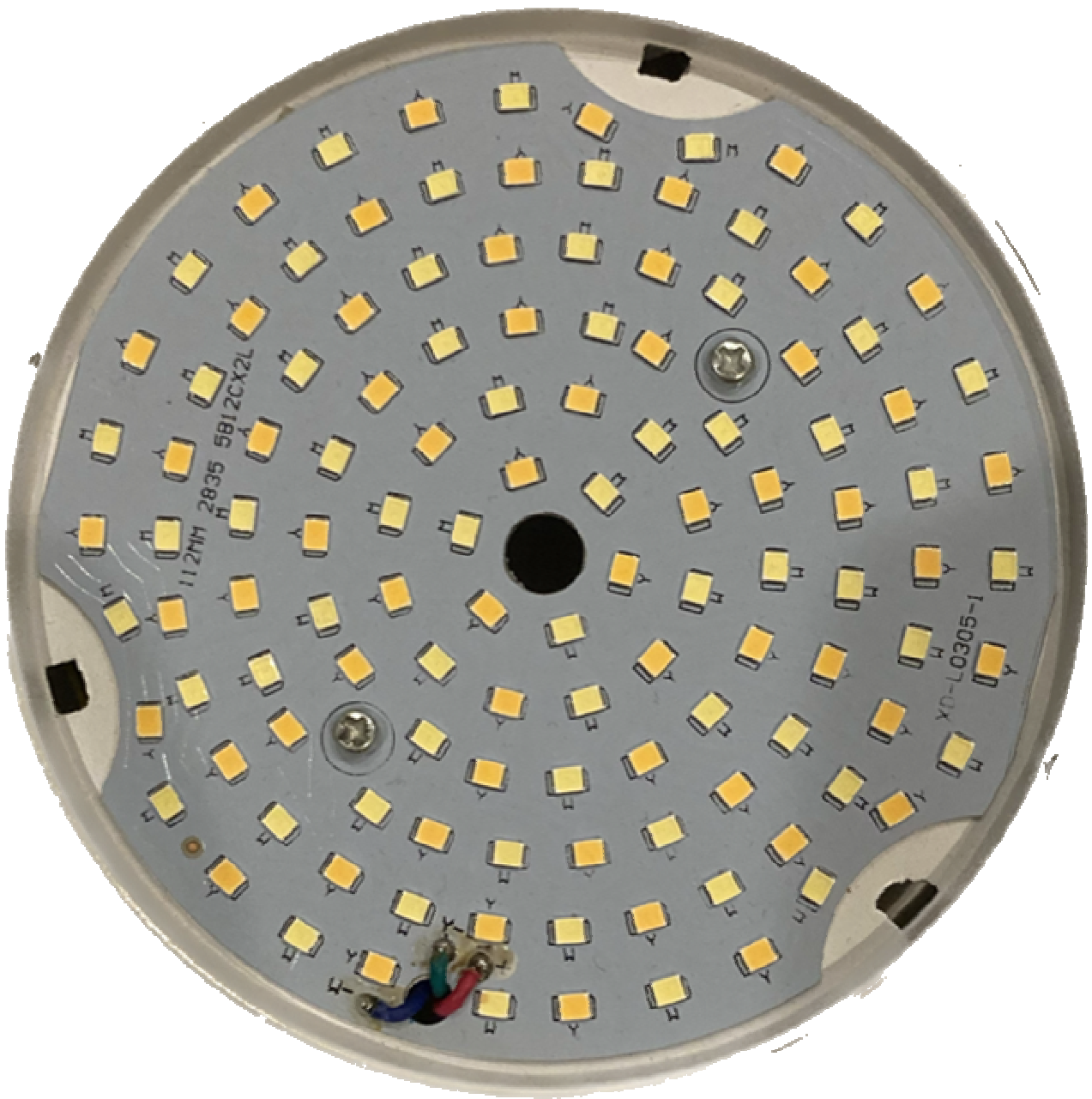
Electrical specifications CC version

Dimming Range	0 to 100%, flicker free, no artifacts			
Model	P023R18-F-27/5000K		P023R6-F-3x00K	
Diameter	7 inch (180 mm)		5 inches (120 mm)	
Watts	12 w	20 w	7 w	8 w
Lumens estimated (IES files expected August 2023)	1300	2200	750	1200
Operating Voltage @ full Brightness	16v @ 660 mA	17v @ 1200 mA	11V @ 660 mA	8.3v @ 1000 mA
Operating mode	Current Limited Dimming Value product line			
Wiring Method	Series			
Dimming methods	KCR-CC AL-WS-DR2			
Color Temp	3000, 3500			
Reverse Polarity indicator	Red LED			

Model	Voltage	Current	CCT	CRI	Lumens	Watts Max
P023R18-F-mA-27/5000K	15-16	0-1200mA	2700K 5000K	90+	1500 @ 1200mA	20w @1200 mA
P023R6-F-mA-XX00K	10-11.5	0-660mA	Fixed	90+	750	7w @660 mA

Light Engine - 120 LED chips for the most light

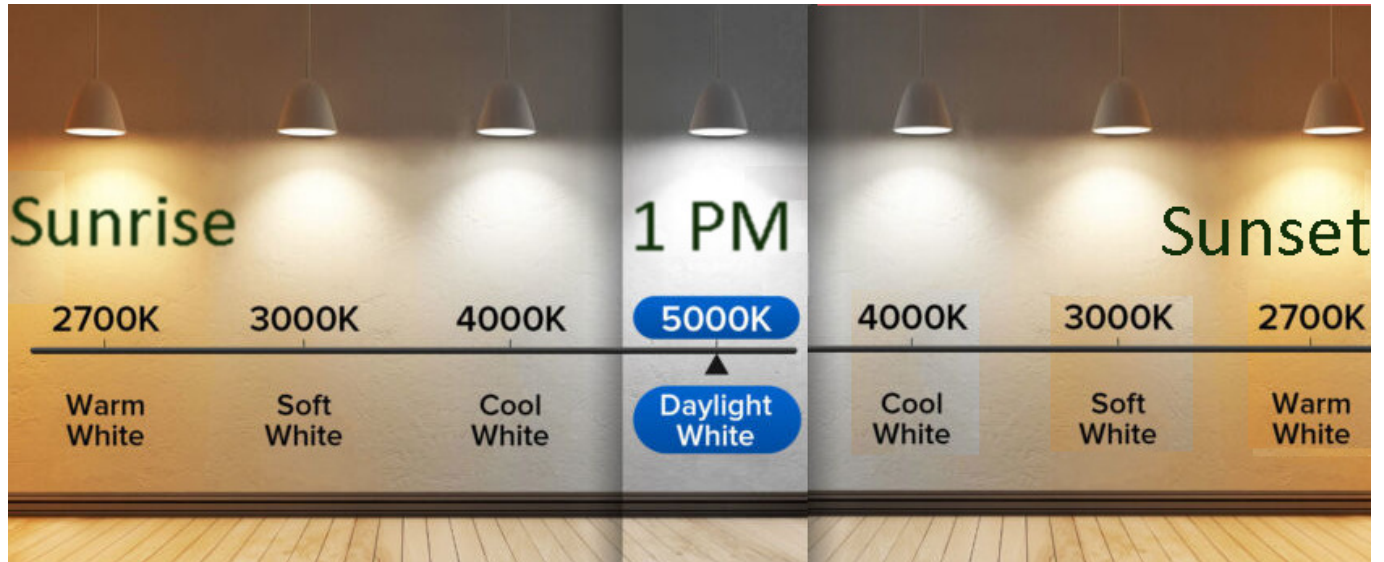
shown without diffuser





**Flush Mounted – no penetrations
(except the wire)**

Color Temperature options



Optional Time of Day lighting rhythm

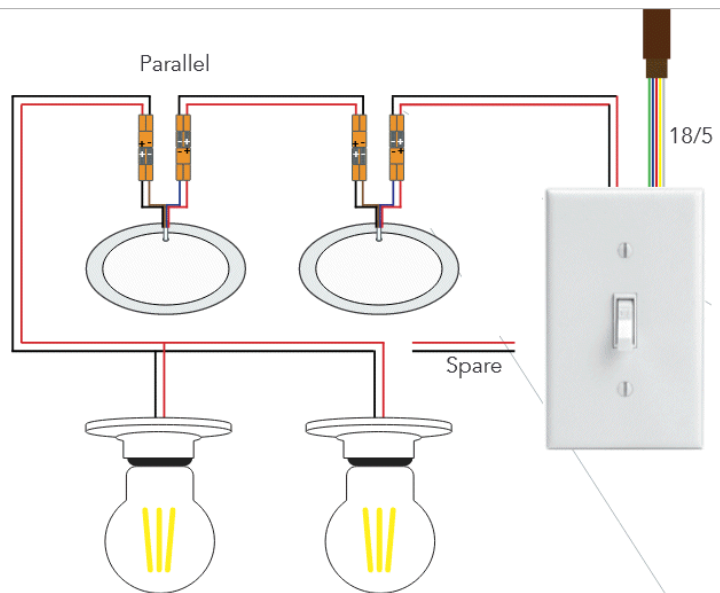
Available in 6 different color temperatures, these fixtures can be operated as a fixed color, or tunable white fixture. Any 660 mA current source can be used. Up to 5 fixtures can be wired in series to share one driver. That driver can be located up to 150 ft from the LEDs – since constant current eliminates the concerns about voltage drop. This 6 watt device can be installed as either tunable white or fixed color. Connecting both inputs in parallel will generate the 3850K color. .

X= Stock, * = on request, X² = wiring option of CCT

Model	2700	3000	3500	3850	4000	5000
CCT	X -----> X					
Fixed	X ²	X	X	X ²	*	X ²

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Parallel Wiring



Lights shown are P023R6-48V6W and E26-48V6W

Value

On/OFF

parallel

PWM

or 51v CC
Dimming