



# Middle Power

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[LM561B](#) [LM561A](#) [LM231B](#) [LM231A](#) [LM362A](#) [LM351A](#)

## Middle Power Series

# LM231B

## Features

The LM231B delivers the same light output as the competition but in a more compact form factor, making it easy to use in downlights and linear tubes.

- Completed 6000 hours of LM-80 testing @ 130mA, 105..
- Optimized for bulbs, downlights, ambient lighting, and LED Tubes
- Smaller footprint than the competition, but able to deliver equivalent light output as competition
- Compatible with LM231A
- Compact footprint (2.3mmx2.3mm)



































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<a href="#">Data Sheet - LM231B</a>		Ver.006 (Jan 06, 2014)
<a href="#">LM-80 Testing Results - LED Components</a>		Ver.3.0 (Jan 20, 2014)
<a href="#">Application Note - T8 Application Design Guide</a>		Ver.1.0 (Mar 21, 2013)
<a href="#">STEP - LM231B</a>		Ver.1.0 (Apr 10, 2013)
<a href="#">IES - LM231B Cool White</a>		Ver.1.0 (Apr 10, 2013)
<a href="#">IES - LM231B Warm White</a>		Ver.1.0 (Apr 10, 2013)
<a href="#">Gerber - LM231B</a>		Ver.1.0 (Apr 10, 2013)
<a href="#">Ray File - LM231B Cool White 3M ASAP</a>		Ver.1.0 (Apr 10, 2013)
<a href="#">Ray File - LM231B Cool White 3M FRED</a>		Ver.1.0

									(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Cool White 3M LightTools		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Cool White 3M Photopia		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Cool White 3M SPEOS		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Cool White 3M SimuLux		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Cool White 3M TracePro		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Cool White 3M Zemax		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Cool White RS8		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Warm White 3M ASAP		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Warm White 3M FRED		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Warm White 3M LightTools		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Warm White 3M Photopia		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Warm White 3M SPEOS		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Warm White 3M SimuLux		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Warm White 3M TracePro		Ver.1.0					(Apr 10, 2013)
<input type="checkbox"/>		Ray File - LM231B Warm White 3M Zemax		Ver.1.0					(Apr 10, 2013)
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PRODUCT COMPARE ▶

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	CAL	CRI	CCT 	Luminous Flux		Beam Angle	Foward Voltage		IF	Part Number
		Min. 		Min. 	Max. 		Typ.	Max.		
<input type="checkbox"/>		80	6500K	20.55lm	31.16lm	120°	2.91V	3.20V	65mA	SPMWHT223MD5WAP0S0
<input type="checkbox"/>		80	5700K	20.55lm	31.16lm	120°	2.91V	3.20V	65mA	SPMWHT223MD5WAQ0S0
<input type="checkbox"/>		80	5000K	20.55lm	31.16lm	120°	2.91V	3.20V	65mA	SPMWHT223MD5WAR0S0
<input type="checkbox"/>		80	4000K	20.55lm	31.16lm	120°	2.91V	3.20V	65mA	SPMWHT223MD5WAT0S0

		80	3500K	19.81lm	30.13lm	120°	2.91V	3.20V	65mA	SPMWHT223MD5WAW0S0
		80	3000K	19.81lm	30.13lm	120°	2.91V	3.20V	65mA	SPMWHT223MD5WAV0S0
		80	2700K	19.81lm	30.13lm	120°	2.91V	3.20V	65mA	SPMWHT223MD5WAW0S0
		90	4000K	18.00lm	25.50lm	120°	2.91V	3.20V	65mA	SPMWHT223MD7WAT0S0
		90	3500K	17.50lm	25.00lm	120°	2.91V	3.20V	65mA	SPMWHT223MD7WAW0S0
		90	3000K	17.00lm	24.50lm	120°	2.91V	3.20V	65mA	SPMWHT223MD7WAV0S0
		90	2700K	16.50lm	24.00lm	120°	2.91V	3.20V	65mA	SPMWHT223MD7WAW0S0

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