

## Product Description

VaOpto's LED Module IP65 Series is an energy-efficient, lead-free, UV-free, and long-lasting cold lighting source. In comparison to traditional light sources, VaOpto's LED Module IP65 Series reduces energy consumption by 50%-75%.

## Product Information

- Cool White: CRI > 80
- Neutral White: CRI > 80
- Warm White: CRI > 80
- Work voltage: 12V
- Viewing angle: 150°
- Three-year limited warranty
- IP 65

## Ordering Information

### ZLS-PPBC-AXL Series; where X may be R, Y, G, B, CW, NW, WW

Part Number	Color	Power (W)	Dimensions(in)	LED Qty. /module	Luminosity (LM)	Wavelength
ZLS-PPBC-ARL	Red	0.48	1.77×0.75×0.28	2	9	625nm
ZLS-PPBC-AYL	Yellow	0.48	1.77×0.75×0.28	2	9	589nm
ZLS-PPBC-AGL	Green	0.48	1.77×0.75×0.28	2	15	515nm
ZLS-PPBC-ABL	Blue	0.48	1.77×0.75×0.28	2	6.3	470nm
ZLS-PPBC-ACWL	Cool White	0.48	1.77×0.75×0.28	2	29	5500-8000K
ZLS-PPBS-ANWL	Neutral White	0.48	1.77×0.75×0.28	2	27	3500-5500K
ZLS-PPBC-AWWL	Warm White	0.48	1.77×0.75×0.28	2	25	2600-3500K



ZLS-PPBC-AXXL

### ZLS-PPBC-TXL Series; where X may be R, Y, G, B, CW, NW, WW

Part Number	Color	Power (W)	Dimensions(in)	LED Qty. /module	Luminosity (LM)	Wavelength
ZLS-PPBC-TRL	Red	0.72	2.54×0.75×0.28	3	14	625nm
ZLS-PPBC-TYL	Yellow	0.72	2.54×0.75×0.28	3	14	589nm
ZLS-PPBC-TGL	Green	0.72	2.54×0.75×0.28	3	22	515nm
ZLS-PPBC-TBL	Blue	0.72	2.54×0.75×0.28	3	9	470nm
ZLS-PPBC-TCWL	Cool White	0.72	2.54×0.75×0.28	3	43	5500-8000K
ZLS-PPBS-TNWL	Neutral White	0.72	2.54×0.75×0.28	3	40	3500-5500K
ZLS-PPBC-TWWL	Warm White	0.72	2.54×0.75×0.28	3	38	2600-3500K



ZLS-PPBC-TXXL

### ZLS-PPBC-FXL Series; where X may be R, Y, G, B, CW, NW, WW

Part Number	Color	Power (W)	Dimensions(in)	LED Qty. /module	Luminosity (LM)	Wavelength
ZLS-PPBC-FRL	Red	0.96	1.73×1.73×0.28	4	17	625nm
ZLS-PPBC-FYL	Yellow	0.96	1.73×1.73×0.28	4	17	589nm
ZLS-PPBC-FGL	Green	0.96	1.73×1.73×0.28	4	27	515nm
ZLS-PPBC-FBL	Blue	0.96	1.73×1.73×0.28	4	11	470nm
ZLS-PPBC-FCWL	Cool White	0.96	1.73×1.73×0.28	4	55	5500-8000K
ZLS-PPBS-FNWL	Neutral White	0.96	1.73×1.73×0.28	4	52	3500-5500K
ZLS-PPBC-FWWL	Warm White	0.96	1.73×1.73×0.28	4	50	2600-3500K



ZLS-PPBC-FXXL



# E301137



**VaOpto**  
LED Manufacturer

# IP65 with Lens

LED Module

## Energy Star Performance

- Lamps designed to produce at least 70% of initial light output after 25,000 hours

## Power

- Input Voltage: 12V DC

## Certifications

- cULus File # E301137

## Installation

For installation information please refer to the installation guide found on our website, [www.vaopto.com](http://www.vaopto.com).