



SIMPLY UNIVERSAL

**Mini AC (GTSOL50-PAR38)**  
50W Plug & Play LED Lamp



US Patent Number: 9,091,424  
US Patent Number: 9,115,876

# GTSOL50-PAR38 LED Lamp

## Features and Applications

Global Tech LED's actively cooled Solstice 50W Mini AC is a universal screw-in LED lamp. The driver on board (DOB) facilitates the simple replacement of existing halogen and HID Par38 lamps in recessed cans, track lighting, low bay lighting, and much more. Rated for 120-240V AC socket. This aesthetically pleasing Par38 lamp accommodates 3 optical patterns (25D, 50D, and 75D), 4 color temperature options, and a 5 year warranty. Like all Global Tech LED products, the Mini AC is proudly made in the USA.

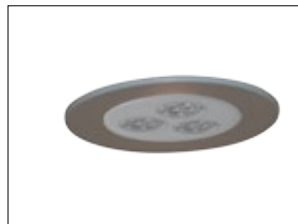
### Features

- Offers industry-leading 100,000+ hrs rated average life.\*
  - Lumen output: 4590 lm
  - Low energy consumption with only 50W.
  - Over temperature protection, shut down at critical temperature, and resume at operation temperature.
  - Available in Warm White (2700K), Neutral White (3500K), Cool White (4000K), and Daylight White (5700K).
  - Under voltage protection for power off or brownout.
  - High color rendering from 80 CRI (standard) to 90 CRI.
  - Soft start.
  - Emits little heat.
  - Contains no mercury.
  - Made in the USA.
  - Replaces up to 250W Par38 and 175W MH.
  - Little to no maintenance
- \*Rated average life based on engineering testing and probability analysis

### Typical Applications



Mini AC in a Track Lighting Application



Mini AC in a Recessed Can Application



Mini AC in a Combo Fixture



The printed circuit board of a Mini AC. ALWAYS shipped with cover attached.

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# Illuminance Distribution Options



The Mini AC unit is offered in four different Kelvins (color temperature) as well as three different optical distributions, 25D narrow flood, 50D flood, and 75D wide flood. These different distribution patterns are meant to meet specific types of applications. Please make sure you are specifying the correct type of distribution on your order. Global Tech LED offers free photometric analysis if needed.

## Kelvin Color Temperature (CCT)

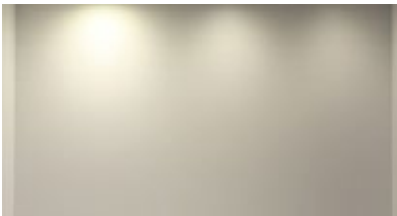
**DW** (Daylight White - 5700K)



**CW** (Cool White - 4000K)



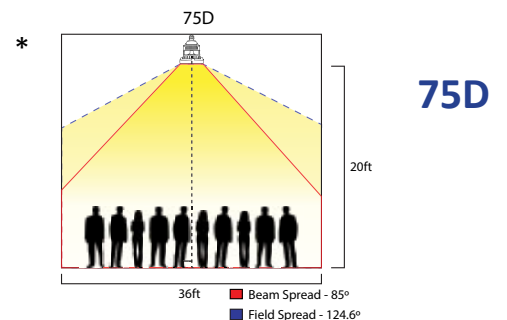
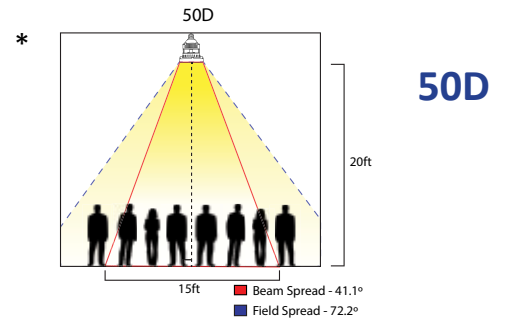
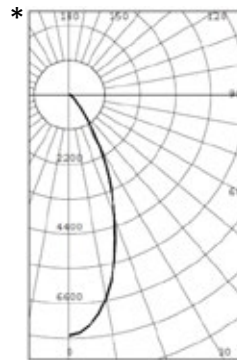
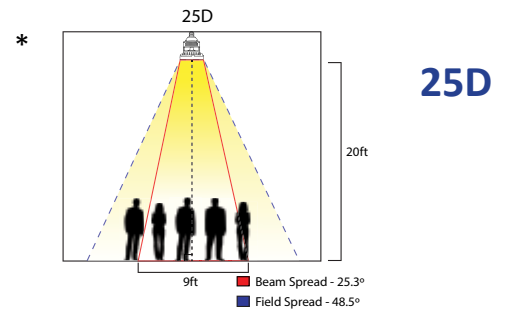
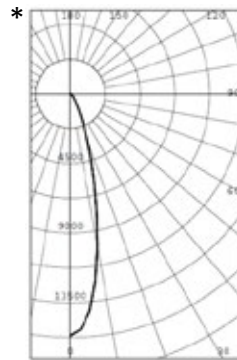
**NW** (Neutral White - 3500K)



**WW** (Warm White - 2700K)



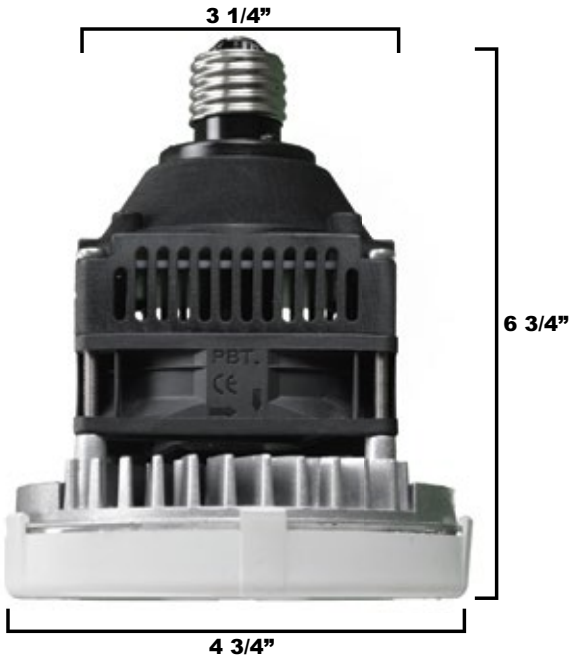
## Spread Distributions (Polar Candela Graphs)



\* For reference only

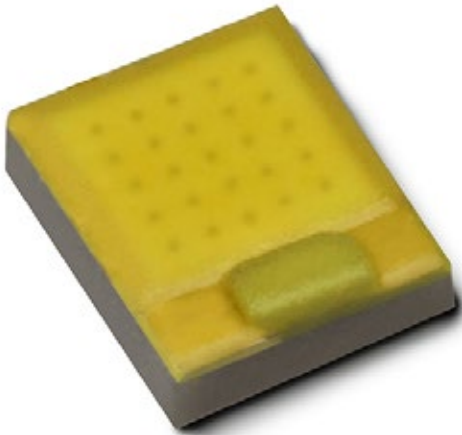
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### Heat Sink Information

Using a fan to force air through the heat sink provides an optimal level of active cooling by wicking excess heat away from the critical components on the circuit board. This viable active cooling solution for high brightness LEDs is inherently low in energy consumption, flexible enough to fit into a small space, and has an expected life over 100,000hrs matching that of the Luxeon LEDs.



Luxeon Z ES Diode

### LUXEON Z ES By Lumiled

LUXEON Z ES is a high-power 1.64mmx2.04mm LED that enables never before seen color consistency, luminance, flux density and design flexibility for lighting solutions because it's the first ever 1-step MacAdam Ellipse warm white LED. LUXEON Z ES is undomed, a feature that provides un-matched optical flexibility for precise beam angle control. Tested and binned at application conditions, 85°C, the LUXEON Z ES emitters are an ideal choice for indoor and outdoor light sources requiring superior beam angles, higher efficacy and lower costs.

#### Ordering Information:

Example: GTSOL50-PAR38-CW-FL

GTSOL50-PAR38		
<b>Series</b>	<b>Color Temperature</b>	<b>Optics</b>
GTSOL50-PAR38	DW (Daylight White - 5700K)	NFL (Narrow Flood - 25D)
	CW (Cool White - 4000K)	FL (Flood - 50D)
	NW (Neutral White - 3500K)	WFL (Wide Flood - 75D)
	WW (Warm White - 2700K)	

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