

NEWS RELEASE

# Cree LED Introduces CV28D LEDs with Groundbreaking FusionBeam Technology for LED Signs and Displays

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First LED in the Industry to Combine Through-Hole and Surface-Mount Technologies to Deliver New Levels of Clarity and Contrast

DURHAM, N.C.--(BUSINESS WIRE)-- **Cree LED**, a **Penguin Solutions** brand (Nasdaq: **PENG**), today announced the launch of its new CV28D LEDs with FusionBeam™ Technology, a groundbreaking advancement for the LED signage market. The CV28D LED combines the latest through-hole and surface-mount (SMD) RGB LED technology, delivering superior directionality, image quality, and resolution in a durable, easy-to-assemble package.

The new CV28D LEDs with FusionBeam Technology from Cree LED combine the latest through-hole and surface-mount RGB LED technology, delivering superior directionality, image quality, and resolution in a durable, easy-to-assemble package. (Graphic: Business Wire)

This innovation marks a major leap forward for information displays, providing new levels of clarity and contrast versus current through-hole LED

displays. With this high resolution, CV28D-enabled signs can now display icons, photos, logos, and even video, bringing unprecedented versatility to signs that can currently only display text or simple shapes.

Compared to traditional through-hole LEDs, the CV28D enables displays with 2.5 times the resolution, equivalent to the leap from standard definition 480p to full HD 1080p video. At the heart of the CV28D's performance, FusionBeam Technology simultaneously blends individual RGB LED dies into a single, uniform color and then sends it only to the intended audience. The new LEDs also feature advanced directionality, focusing light on the intended viewer while reducing light trespass and pollution to four times less than standard RGB SMD LEDs.

"We are proud to introduce our CV28D LEDs with FusionBeam Technology, the first LED solution to truly bridge the gap between through-hole and SMD technologies in the LED signage market," said Joe Clark, President of Cree LED. "By combining the best qualities of both, CV28D enables signage manufacturers to create displays with higher resolution, better directionality and improved durability, all while reducing light pollution. FusionBeam Technology LEDs represent the next frontier for LED information signs, and we're excited to see how our customers leverage our technology in their future designs."

CV28D LEDs offer single LED package per pixel and provide ease of assembly and IP68-rated dustproof and waterproof reliability. With a form factor of only 4.3 mm in height, they enable significantly thinner and lighter displays and signs — making them ideal for a wide range of outdoor applications.

For more information about the CV28D LEDs and how they are revolutionizing the information signage market, visit [www.cree-led.com/CV28D-FusionBeam](http://www.cree-led.com/CV28D-FusionBeam).

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## About Cree LED

Cree LED, a Penguin Solutions brand, offers one of the industry's broadest portfolios of application-optimized LED chips and components, leading the industry in performance and reliability. With more than 35 years of innovation, our strong IP portfolio and unique business model ensures supply chain continuity. We deliver best-in-class technology and breakthrough solutions for focused applications in high power and mid-power general lighting, horticulture, specialty lighting and video screens. For more information, visit [cree-led.com](http://cree-led.com).

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