

BetaLED® Optimized Technology

Frequently Asked Questions

The Total Systems Approach from BetaLED is a design commitment to incorporate the latest LEDs, a unique optic design, efficient driver characteristics and effective thermal management together in a system to maximize overall luminaire performance and longevity.

Advancing on this promise, BetaLED is pleased to announce the latest optimized technology integrated into our complete line of BetaLED products.

Q: What is optimized technology?

A: Optimized technology represents the latest generation of improved BetaLED products and components, and signifies the company's commitment to using the best LEDs available combined with BetaLED's enhancements in patented NanoOptic technology.

Q: If I ordered BetaLED luminaires with previous generation technology but you're shipping luminaires to me with optimized technology, will my customer see a noticeable difference in performance?

A: Lighting performance metrics will improve (in most cases) with the optimized technology, most notably in uniformity. We encourage you to work with our application engineering department to determine if there will be any changes in lighting performance for application layouts that were specified using BetaLED products with previous technology.

Q: How has optimized technology optics improved performance?

A: BetaLED's latest enhancements to the NanoOptic™ design manage light more effectively, enabling improved target efficacy. The optimized technology also offers more optic Types and options. In most cases, the benefit for customers is better target performance often requiring less energy than the previous technology provided.

Q: Why has BetaLED issued new catalog nomenclature?

A: The new catalog nomenclature reflects a better way to represent our expanded line of LED luminaires. It also references number of LEDs in place of delivered lumens.

Q: Does BetaLED use IESNA cutoff classifications or the new IES Backlight, Uplight and Glare (BUG) performance standards to evaluate luminaires?

A: BetaLED has moved toward using the IES BUG measurement for luminaires because it provides more meaningful performance descriptions and evaluation for LED luminaires. The Illuminating Engineering Society of North America (IESNA) created the TM-15-07 Luminaire Classification System (LCS) in 2007 to characterize luminaire optical performance related to light trespass, sky glow, and high angle brightness control. Since then, IESNA added Addendum A to TM-15-07: Backlight, Uplight, and Glare (BUG) Ratings.

All BetaLED products are International Dark-Sky Association (IDA) approved and are measured for performance using IESNA guidelines including the IES BUG rating system which supersedes the former cut-off classification system. Individual product specification sheets should be referenced for luminaire classifications.

For more information on the BUG rating, reference the IESNA addendum at the following web address <http://www.iesna.org/PDF/Erratas/TM-15-07BUGRatingsAddendum.pdf>

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Q: What is BetaLED doing to address LM-79-08 photometric testing in the new luminaires with optimized technology?

A: BetaLED has started conducting extensive photometric tests of luminaires with optimized technology. The breadth of 19 optics, four drive currents, two correlated color temperatures and 10 or 20 LED modularity (depending on the product family) results in over 7,000 standard product offerings. Not only is this cost prohibitive for testing, but the industry doesn't have sufficient test lab resources to complete testing within a reasonable time frame.

Building on our vast experience of hundreds of LM-79-08 photometric tests, BetaLED will be utilizing a test protocol of over 200 LM-79-08 tests that will allow us to support all of our specification sheet data. In our continuing efforts to foster the growth of the LED industry, BetaLED will publish these established methods and data in a peer reviewed technical journal.

IESNA LM-79-08 photometric files will be provided for all tested luminaires. Scalable or lumen adjustable files will be available for use with specification sheet data for all product offerings.

Q: How do I know the new BetaLED luminaires with optimized technology are reliable?

A: As part of our ISO 9001:2008 quality registration BetaLED participates in an extensive supplier qualification process to ensure use of the best suppliers available. BetaLED also requires extensive component testing, such as: LM-80-08 LED package testing, driver reliability calculations and testing including: LM-80-08 LED package testing, driver reliability calculations and testing, and salt fog corrosion durability tested for 5,000 hours in compliance with the ASTM B 117 and ASTM D 1654 standards. We incorporate 100-percent product testing including electrical and photometric parameters. All of our quality-built products are backed up by an industry-leading 5-5-10 warranty.

Q: Why does BetaLED offer so many optic choices in the optimized technology luminaires?

A: BetaLED offers the versatility of more than 19 different optical selections with upgradeable LED modules to provide the flexibility to fine-tune lighting performance for each unique project or application.

The success of our flexibility is apparent in the more than 4,000 BetaLED installations in over 1,000 cities worldwide.

Q: Will BetaLED luminaires with optimized technology cost more?

A: No. BetaLED luminaires with Optimized technology will not cost more than those with previous generation technology. BetaLED is pleased to offer luminaires that provide increased lighting performance without increasing cost. Customers gain the benefit of receiving a greater value from the new, advanced luminaires.

Q: Will optimized technology have an impact on uniformity?

A: Yes. Uniformity ratios will be improved in most cases. One objective behind all of our optical designs is to improve uniformity ratios for the applications the optics are intended to be used in.

Q: Why is there a separate Lumen Depreciation map for THE EDGE and LEDway products?

A: We developed two separate lumen depreciation maps for more accurate accounting of luminaire lumen depreciation based on the differences in thermal performance characteristics between THE EDGE and LEDway luminaires.