

Frequently Asked Questions

LUXEON Rebel ES – 2010

With 300+ Lumens, LUXEON® Rebel ES Drives Outdoor LED Lighting Adoption with New Levels of Light Output and Efficacy

Expanded portfolio provides the range necessary to meet outdoor lighting requirements around the world, shorten payback periods and lower total cost of ownership.

Q Are the new emitters available today?

A Yes –Future Lighting Solutions has been stocked with tens of thousands of parts which should be viewable in the ATS system. High volume Customer programs requiring 100k+ pcs/month will be supported from August 2010.

Q How big is the chip in LUXEON Rebel ES and how does it compare to the Cree XPG chip?

A The new chip is 1.4mm x 1.4mm and is the same size as the Cree XPG chip but delivers better performance in actual operating conditions

Q What happened to the current 100 lm/W LUXEON Rebel ES emitters that use the 1mm square die?

A These parts will remain available for the time being although we expect our customers to focus on the new parts and therefore our marketing materials will emphasize the new parts and reduce visibility of the other LUXEON Rebel ES emitters.

Q Does this mean that Philips Lumileds will obsolete the 100 lm/W parts?

A No. There are no plans for the obsolescence of the original LUXEON Rebel ES parts and the topic should not be broached with customers. If asked, simply respond that all the parts are available and keep the focus on addressing the customers' needs.

Q Why don't these new emitters use Lumiramic phosphor technology?

A Our primary objective is to deliver products that meet our customers' needs so the starting point for development isn't to use specific technologies but to choose the right technologies that will deliver the right performance and greatest value for the targeted customer segments.

Q When will an LM-80 report be available?

A Now. Contact your TSM or Regional Marketing Center for details.

Q Why aren't the new LUXEON Rebel ES emitters ANSI binned.

A For the time being we will continue to use the binning already established for the LUXEON Rebel ES products. We will continue to evaluate market demand and opportunities to adjust the binning scheme.

We are offering a kitted color point solution to customers with medium to large size programs. Color sub-selections can be requested via your respective Marketing Center.

Q Why isn't H/C factor the same for these two parts?

A The differences in the hot/cold factor performance between the neutral-white and cool-white emitters are the result of subtle temperature characterization differences between the applicable phosphors utilized. The 4100K neutral white phosphor has a slightly higher temperature dependence characteristic compared to that used for the 5650K cool-white product. The phosphors used are identical to those implemented on the existing LXML-PWx1-0xxx emitters.

Q Why are they binned and tested at 700mA instead of 350mA?

A LUXEON Rebel ES is tested and binned at 700mA to enable the greatest degree of design flexibility for our customers; either in a high-efficacy luminaire or an application requiring the lowest cost-of-light.

Q What happened to guaranteed 120 lm/W?

A LUXEON Rebel ES was originally conceived as a product that would be tested and binned for minimum efficacy at 350mA. However, based on customer feedback and in order to support a broader range of customer use conditions (at both 350mA, 700mA and 1000mA), the product was redefined for a minimum luminous flux of 200 lumens at 700mA.

Q What is the status of UL Registration?

A We expect UL Registration to be confirmed in September of this year.

Q What design resources are available?

A At present we have ray sets and mechanical drawings. Please contact your TSM team for additional resources.

Q When will we have warm white LUXEON Rebel ES

A This release is specifically for the 4100K and 5650K emitters. Please consult your roadmaps or Regional Marketing Center for information about future product releases.