



# Customer Product/Process Change Notification

PCN # TPC13120502\_OPCHOVAL

Issued Date: 12/16/2013

Issued By: Dave Weimer

Author: DW

Change affects whole product family? NO

Part #'s affected (See attached if entire product family is affected)

OPC11OVAL AND OPXC1OVAL

**Description of Change:**

Obsoleting OPC11OVAL and to be replaced with OPXC1OVAL

**Reason for Change:**

Damaged tool , New Optic offers compatibility with Rebel ES, Rebel LXLM, Cree XPG, Cree XTE and Nichia 219B.

**Properties of Old vs. Changed Product:**

Optical Output:  
Oval Rebel = 8° x 25° (Half Divergence) Rebel  
Oval Universal = see page 2 for Full Divergence details  
see page 2 for visual and dimensional changes (Universal Optics is taller and smaller in dia.)

**Disposition of Old Product:**

deplete existing stock

Expected Implementation Date: 11/15/2013

Customer Feedback Expected by: N/R

**Additional Comments: (Include Potential Risks if Appropriate)**

N/A

**Supporting Qualification Data:**

Not required

**Approved By:**

(Minimum of three approvals are required.)

Vice President of Operations: \_\_\_\_\_

Vice President of Sales OED/Signals: \_\_\_\_\_

Director of Customer Service: Kathy Smith

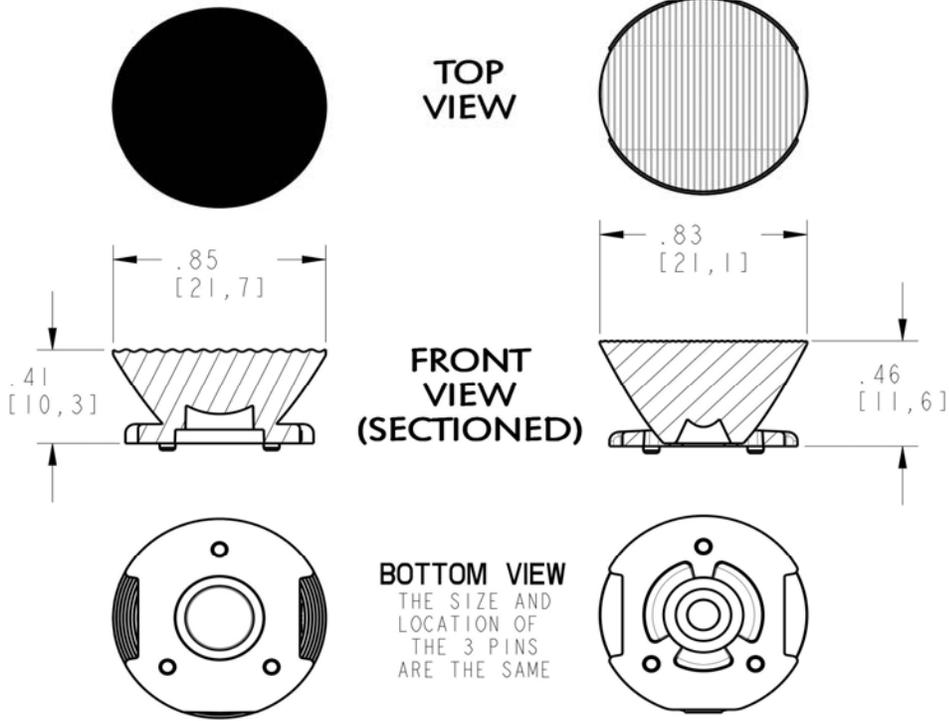
Applications Engieneer: Dave Weimer

Director of Quality: Rich Liskoff



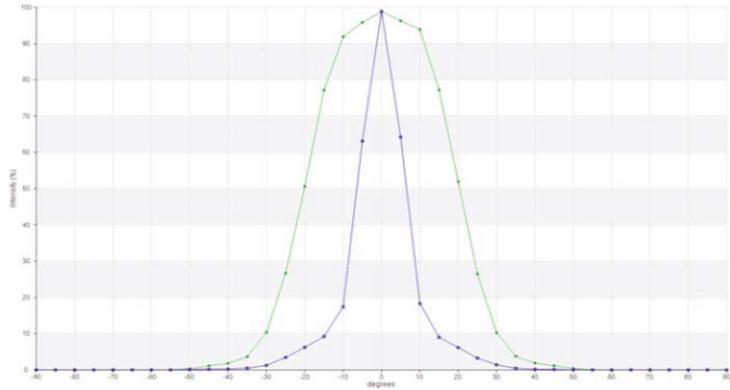
**OPC11OVAL  
Rebel**

**OPXC1OVAL  
Universal**



OPC110VAL
Rebel = 8° x 25°
the above angle is referred to half divergence

**OPXC10VAL**



The typical full-width at half-maximum emission angle

- 44° x 15° (+/- 22x7 degree) for Cree XPG
- 44° x 15° (+/- 22x7.5 degree) for Cree XTE
- 43° x 17° (+/- 21.5x8.5 degree) for Luxeon rebel ES
- 43° x 18° (+/- 21.5x9 degree) for Luxeon rebel LXML
- 44x18° (+/- 22x9 degree) for Nichia 219B