



Innovative Photonic Solutions

# LED DRI's

## *Solid State Diffuse Ring Illuminator*

### KEY FEATURES

- DRI, US Patent No. 5,752,767
- Extremely High Uniformity (+/- 5%)
- Low Angle Structure
- Diffuse Darkfield Illuminator
- Solid State Reliability

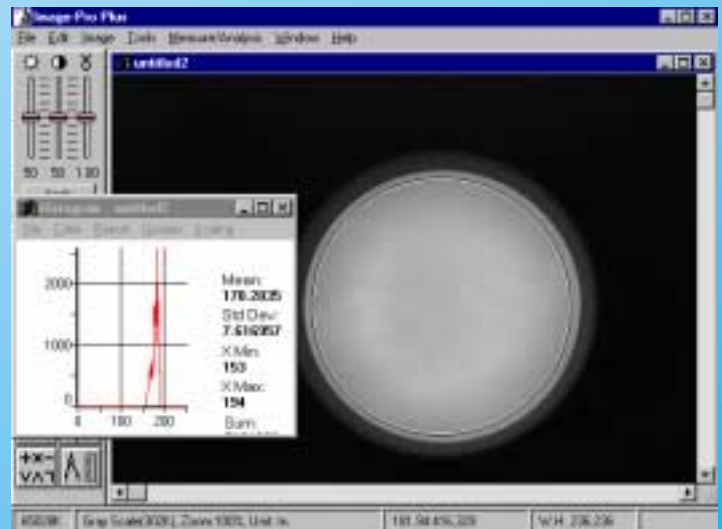
### APPLICATIONS

- Surface Defects
- Scribed Characters
- Raised Objects
- High Contrast on Flat Surfaces
- Reflective and Non-Reflective Surfaces



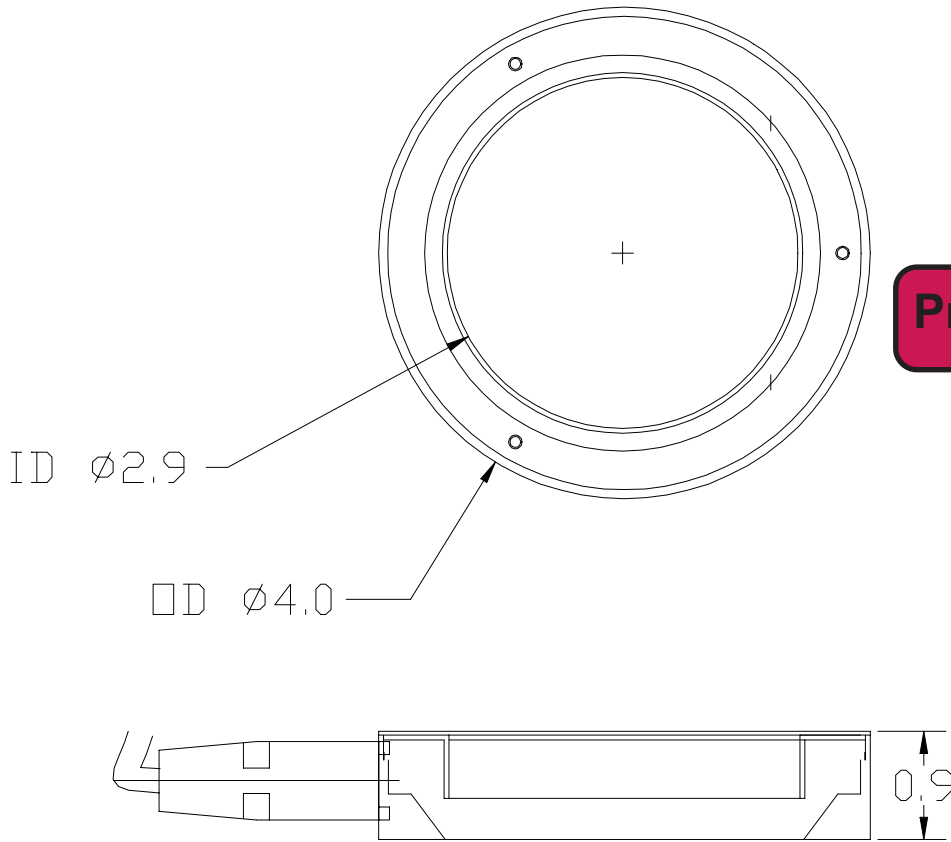
## Superior Uniformity

The data on the right displays the typical intensity distribution for our patented Diffuse Ring Illuminators. The 5% uniformity measurement is made over the central 90% of the area and specified using the one sigma point. All uniformity and output measurements are made using an industry standard EKE lamp operating at full intensity. Our units are inspected 100% and are furnished with compliance reports.



# Detail Drawings

**Pre-Release Drawing**



# Technical Specifications

## Physical

Outer Dia. 4.00" (101.6mm)  
 Inner Dia. 2.75" (70.0 mm)  
 Thickness 0.85" (21.6mm)  
 Weight: 1lbs (0.45kg)

## Wavelengths

RED 660 nm  
 BLUE 470 nm  
 INFRARED 880 nm  
 WHITE 400-700nm

## Electrical

Input Power: 24VDC  
 Current 500mA Typical

## Environmental

Temperature: 0 to 40C  
 Relative Humidity: 0 to 95%

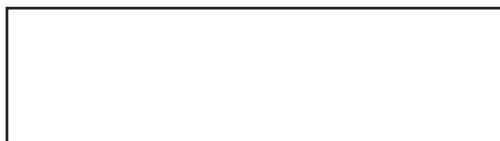
## Stability

Current Regulated Circuitry

## Lifetime

100,000 Hours

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