

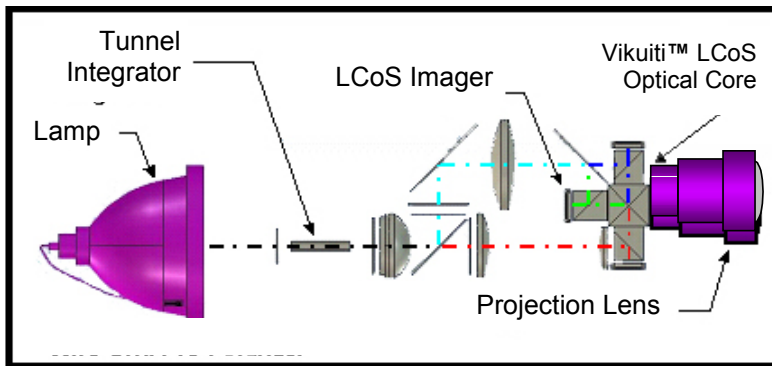


# Vikuiti™ LCoS Optical Core



- Advanced 3M technology allows high performance, low cost light engine solutions
- Glass is lead and cadmium free \*
- Unique PBS technology delivers high brightness, high contrast, and uniform image that is thermally stable
- 3M's patented solution enables simple, low cost engine architecture and use of lower wattage lamps for longer lifetime

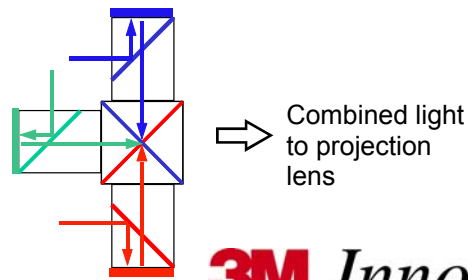
## Typical LCoS engine with Vikuiti™ LCoS Optical Core



**The Vikuiti™ LCoS Optical Core allows a simplified, high performance LCoS solution.**

## How the Vikuiti™ LCoS Optical Core works

Red, green, and blue light is directed onto the imagers by separate polarizing beam splitters. Image light passes through each PBS and is combined by the X-cube, then passes into the projection lens as circularly polarized light.



⇒ Combined light to projection lens



For more information call: 513-752-7000

## Specifications

### Materials

PBS Glass

index 1.59

Color Combiner Glass

index of refraction = 1.52

### Maximum Imager Diagonal

16 x 9

at f/2.3: 0.71" (18.0 mm)

### Storage Conditions

Thermal

-20 deg. C to 60 deg. C

### Other

Surface quality (scratch/dig)

60/40 near imager and 80/50 elsewhere

Output Light Polarization State

Circular

Reference engine

Optical design assistance available



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\* 3M Precision Optics, Inc. defines "lead and cadmium free" to mean RoHS compatible, with a lead concentration that does not exceed 0.1% and a cadmium concentration that does not exceed 0.01% by weight. Note that although the RoHS Directive does not yet specify a de minimis threshold these are the draft de minimis thresholds currently being considered by the European Union's Technical Advisory Committee.