

# CUTSHEET

## Intematix ChromaLit™

Remote Phosphor Light Source: *Ellipse, Candle, Dome*



*SAN- PIN Light Bulb*

ChromaLit Ellipse, Candle and Dome light sources enable brighter, more energy efficient LED bulbs and lighting fixtures by providing wide angle lighting distribution, improved light quality, and greater design freedom. These remote phosphor light sources from Intematix provide highly uniform light distribution and are offered in a variety of lumen levels for applications in indoor and outdoor general lighting, decorative and retrofit light bulb (lamp) designs.

### Features & Benefits

- Omni-directional light distribution
- Glare-free LED light bulb design
- High color quality and color consistency
- Unprecedented design freedom for solid state lighting products and systems
- Streamlined supply and production of LED lighting systems
- Up to 30% higher system efficacy compared to conventional LED lighting designs

### Applications & Uses

- LED retrofit light bulbs
- Portable consumer lighting
- Downlights
- Wall sconces
- Pendants
- Chandelier and other decorative applications
- Appliances

## Optical and Performance Characteristics<sup>1</sup>

Product	CCT <sup>2</sup> (K)	Min <sup>3</sup> CRI	Typical Conversion Efficacy <sup>4</sup> (lm/W <sub>rad</sub> ) at 25°C
CL-827	2700	80	165
CL-927	2700	90	140
CL-830	3000	80	185
CL-930	3000	90	150
CL-835	3500	80	190
CL-840	4000	80	195
CL-750	5000	70	220

<sup>1</sup> **Reference Operation** Product performance based on reference design. Please refer to application note for detail on reference design.

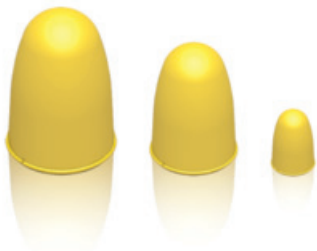
<sup>2</sup> **Correlated Color Temperature**

<sup>3</sup> **Minimum Color Rendering Index**

<sup>4</sup> **Conversion Efficacy** is the luminous flux (white light) output per radiant watt of blue light input to ChromaLit. W<sub>rad</sub> is the radiometric power measured in watts. Conversion efficacy is rated based on reference operation and dominant blue LED wavelength of 455nm (peak wavelength of 450nm)

## Product Offering

### ChromaLit Ellipse



- Beam angle: 280°C (Omni-directional intensity distribution)
- Outer diameter: 15.3mm-26.3mm
- Lumen range: 200-800lm
- Ideal for LED retrofit light bulbs, landscape and pathway lighting

### ChromaLit Candle



- Beam angle: 255°C (Side emitting intensity distribution)
- Outer diameter: 11.9mm-26.6mm
- Lumen range: 70-600lm
- Ideal for decorative LED retrofit light bulbs, chandeliers and lanterns

### ChromaLit Dome



- Beam angle: 215°C (Directional intensity distribution)
- Outer diameter: 14mm-55mm
- Lumen range: 100-1600lm
- Ideal for LED light bulbs, ceiling fixtures, pendants, wall sconces, and floodlights