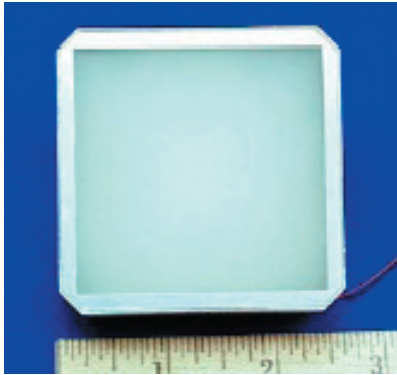
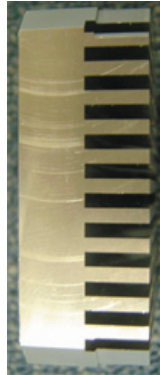


3.0 ATI RGB LED Color Correcting Illuminator



Top View



SideView

Parameter	Characteristics AL30ATIC-CC (dimensions in mm)
Aperture Size ($\pm.25$)	56.50 x 56.50
Aperture (Diagonal)	80.00
Body Dimensions	62.25 x 64.75
Height	22.50
Weight (grams)	146.00
Angular Radiation	$\pm 23^\circ$ FWHM
Operating Temperature	-40° to +85°C

The ALPHALIGHT™ LED Illuminators provide exceptional high performance uniform light, ideal for non-emissive displays. Bright, highly uniform light is achieved through a unique solid state design using Teledyne's patented and proprietary technology. High optical efficiencies significantly optimize LCD and Spatial Light Modulator (SLM) display performance with lower power consumption.

ALPHALIGHT™ RGB (Full color) LED Illuminators are ideal for color field sequential lighting (CFSL) of non-emissive displays.

The ALPHALIGHT™ is capable of operating in wide temperature ranges and is immune to most vibration and mechanical shock.

The ALPHALIGHT™ LED Illuminators are offered in the Teledyne standard catalog, with custom options available including IR and NVIS.

AL30ATIC-CC Attributes

- Incorporates tri-color optical sensor
- Compatible with color-correcting electronics
- Consistent chromaticity over time
- Superior thermal conductivity

Design Implementation Advantages

- Compact, rugged, lightweight
- Fast response < 100 ns on/off address
- Long life span
- Low voltage; power efficient operation
- 15,000:1 dynamic full range dimming
- High optical efficiency
- Eliminates DC-AC inverter/power supply
- No warm-up and no over voltage start
- High reliability

Parameters Ta = 25°C	Characteristics AL30ATIC-CC		
@ Steady State	Red	Green	Blue
Color (± 0.01)	x=.67-.43 y=.27-.33	x=.14-.28 y=.64-.73	x=.11-.15 y=.04-.10
Max Voltage (VDC) ($\pm.5V$)	7	12	12
Max Current (mA)	1400	1400	1400
Max Power (mW) ($\pm .5W$)	9.8	16.8	16.8
Projected Life (Hours) *	$\geq 20K$		
Pulsed @ 660 Hz	Red	Green	Blue
Current (mA)	600	568	548
Luminance (fL) ($\pm 10\%$)	> 9000		
Uniformity (Full Aperature)	$\leq 1.1:1$		

*Additional derating required for elevated temperatures

Teledyne's ALPHALIGHT™ product is fully patent protected (U.S. Patents #5,440,197, #5,684,354, #5,892,325, #6,043,591 domestically as well as foreign additional patents pending) for this specific application.

For more information, please visit our website at www.teledynelighting.com