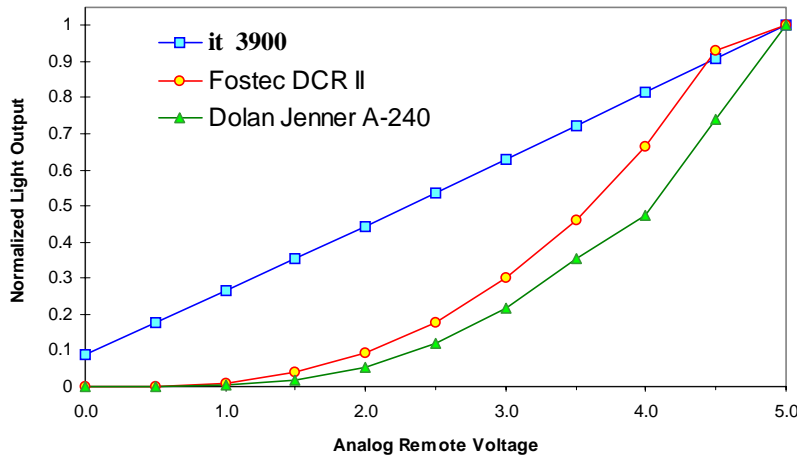


Technical Note: **101**

Question:

What is the output linearity of the 3900 lightsource and how does it compare to the Dolan Jenner A-240 and the Fostec DCRII?

Comparative Light Output vs Analog Remote



Answer:

The graph above compares the **light** output versus analog remote control signal for the **it 3900** against the Dolan Jenner A-240 and the Fostec DCRII lightsources. Repeatability and linearity are critical when an automated system needs to make intensity changes based on what the camera sees. This procedure requires two things; a linear input/output relationship and long-term repeatability. The A-240 and the DCRII provide neither; the 3900 ensures both. This same linear relationship holds true for the 3900's serial interface (RS-232/485), which neither of these units offer.

Quotes:

Regarding competitive units: "In the 0-5V range only the top 2 volts actually do anything, and it is never the same two volts. The 2 volts that actually adjust the brightness are never on the same curve and is non-linear. When the bulb ages the response changes as well." Regarding the 3900: "Using a 12-bit D/A card I get repeatable output linearity within .9999 with 1/4 grayscale control." In addition, the 3900 safely handles up to 30V at the interface, while anything over 5V into one of the competitive units causes catastrophic failure.

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