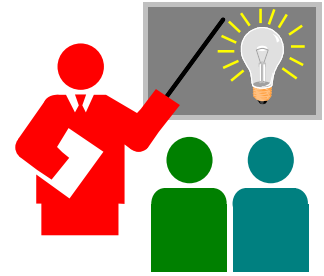


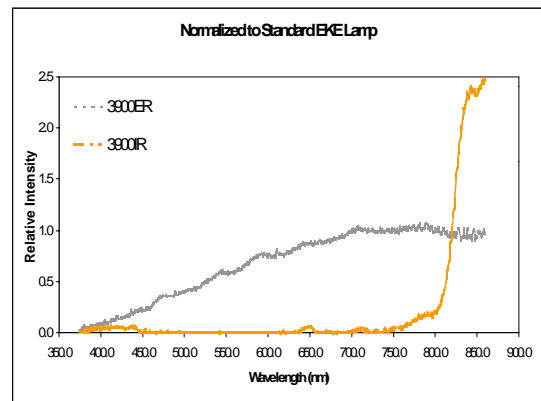
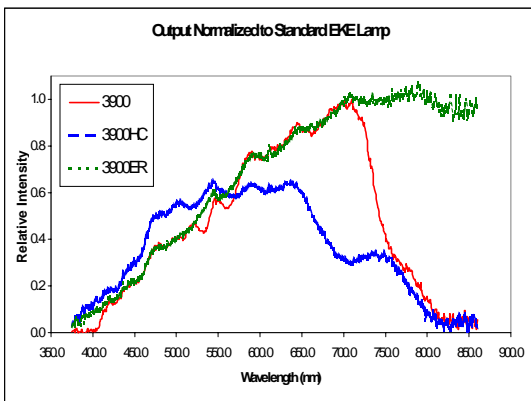


® Illumination Technologies, Inc.



Technical Note: 114

Question: What are the advantages/disadvantages of the 3900ER (extended range), 3900IR (infrared), or 3900HC (high color temperature) compared to the standard 3900 *SmartLite*™?



Answer:

3900HC - The high color temperature lamp produces less red output and more blue output over that of the standard tungsten halogen lamp, providing better white balance in color applications. The drawback here is a reduction in light output by approximately 20%.

3900ER - The extended range lamp is designed for high speed applications which require large amounts of light. The **3900ER** produces on average 40% more light than the standard 3900. The downside of the **3900ER** is the increased infrared radiation and heat, which may cause problems in some applications.

3900IR - This unit is designed specifically for applications where visible light is ineffective or undesirable, or high IR output is desired. Special cameras and optics optimized for infrared light are required.

Illumination Technologies, Inc.
 5 Adler Drive, East Syracuse, NY 13057 USA
 TEL: 315-463-4673 FAX: 315-463-1401
 E-mail: info@illuminationtech.com
 http://www.illuminationtech.com