



## TECHNICAL EXPERTISE for USHIO HIGH EFFICIENCY XENON LAMPS

The French Commission Supérieure Technique de l'Image et du Son (CST) performed an objective test of USHIO High Efficiency Xenon Lamps.

### Test Set-up :

The lamp types UXL-16SCBH, UXL-21SCBH, UXL-40SCH and UXL-70SCH were tested in a well controlled standard cinema set up consisting of :

Projector :	Kinoton® FP30E
Lamphouse :	Kinoton® 1000/2000 and 4000
Lens :	Schneider® Ciné Première
Screen:	Démospec® Super Blanc micro perforé (Super White Microperfs)
Rectifier:	Irem® N3 x 75 DM

Screen Lumens, Uniformity and Color Temperature have been measured with advanced equipment such as Minolta® CSS1 & LS100 and USL® PSA200.

### Results:

The tests have proven that USHIO High Efficiency Lamps give, depending on the actual type, **14% to 30% more screen lumens** than the corresponding standard types when used at same electrical power. It was also verified that USHIO High Efficiency Lamps give same screen lumens as standard types at **14% to 30% lower electrical power**.

Other parameters such as color temperature, uniformity of screen illumination and stability are not influenced.

Accordingly USHIO High Efficiency Lamps are a plug-and-play solution to gain significant more light or reduce power consumption drastically.

### About Commission Supérieure Technique de l'Image et du Son (CST) :

The CST is an association of professionals from the audiovisual field, in charge of supervising the quality of the production and broadcast of sound and images, whether they are intended for cinema, television or any other medium.

The CST's missions are closely linked to the progress of sound and image techniques. The CST was founded in 1944. Currently, the CST is involved in the transition of cinema and television towards digital technology and in the introduction of new media such as video on demand (VOD).