



Laser Light Engines
by CINEMECCANICA & XPAND

LUX Laser Light Engine Series

Introduction – ICTA - CineEurope 2015 – Barcelona
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EMEA & North America

The LUX series is Manufactured by Cinemeccanica Spa



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CONCEPT STATEMENT

LUX is both full 2K-4K Laser Projector and easy Laser head retrofit solution for all Series 2 projectors with scalability of Laser Light Source power.

LUX will definitely improve cinema moviegoing experience and help exhibitors to significantly reduce their operational costs.



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BRIGHTNESS

- **Up to 57,5K Lumens**
- **Up to 50 meters / 167 Ft wide screen**
- **Laser brightness perception 25% more than xenon lamp with same Lumens level (H-K effect)**
- **Better light uniformity (95% center to side)**
- **Over life-time uniformity**



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CONSTANT LIGHT LEVEL

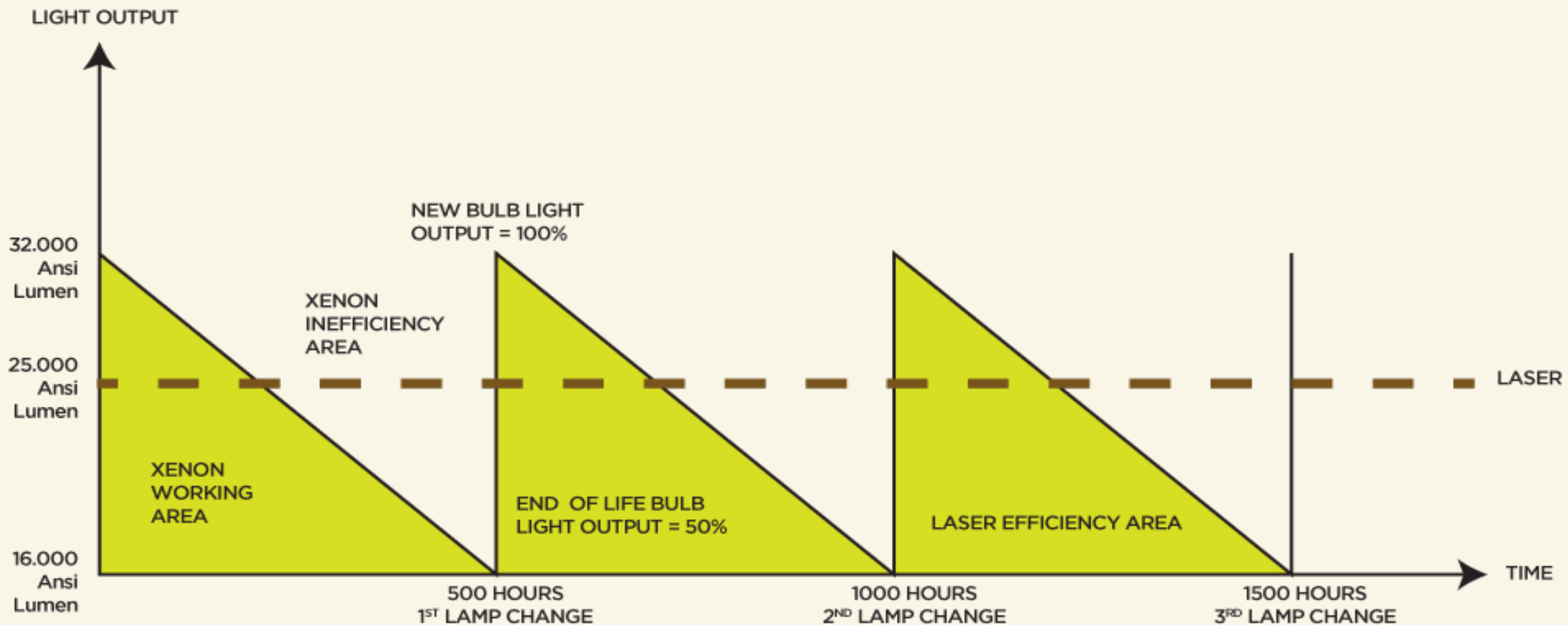
- **Brightness decrease 20% only after 30,000 hours**
- **Compared to Xenon lamp: 50% after 3,000 hours (2K) & 500 hours (6.5KW)**



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UNIFORMITY OF LIGHT

- Same Brightness Level Over Time

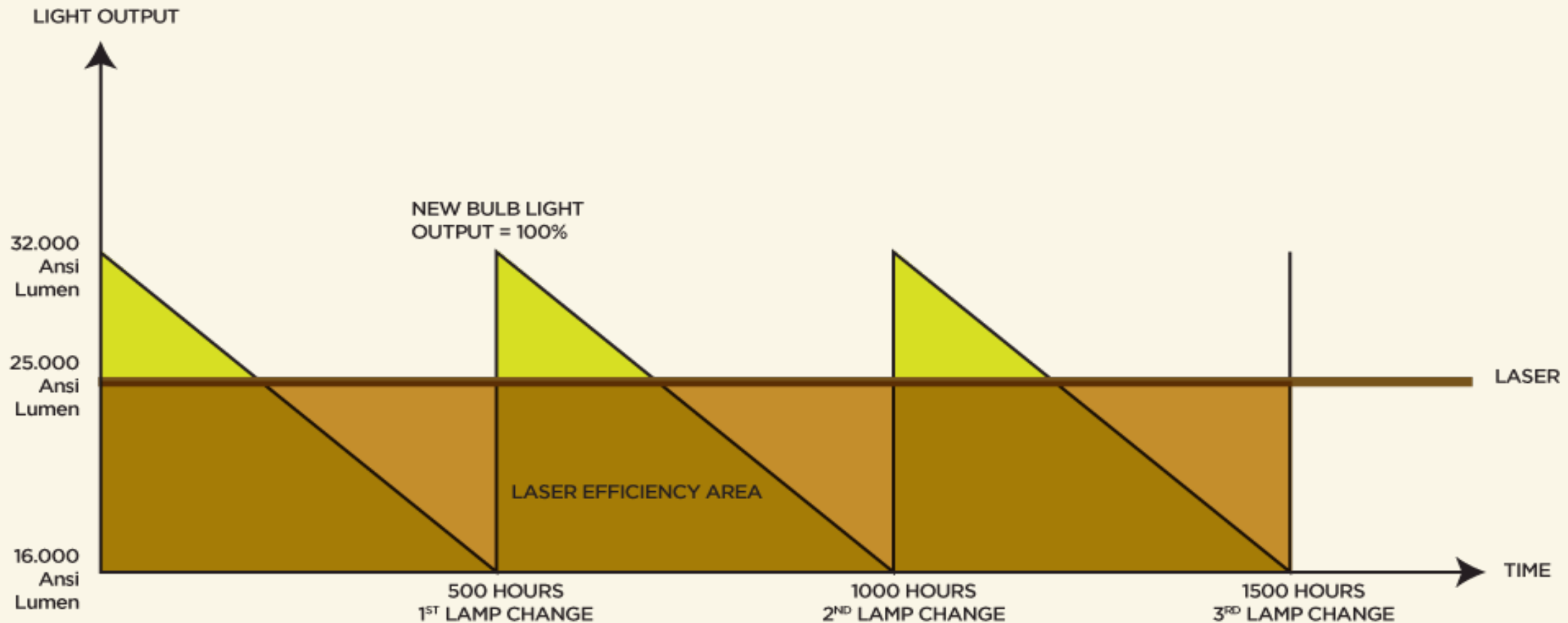




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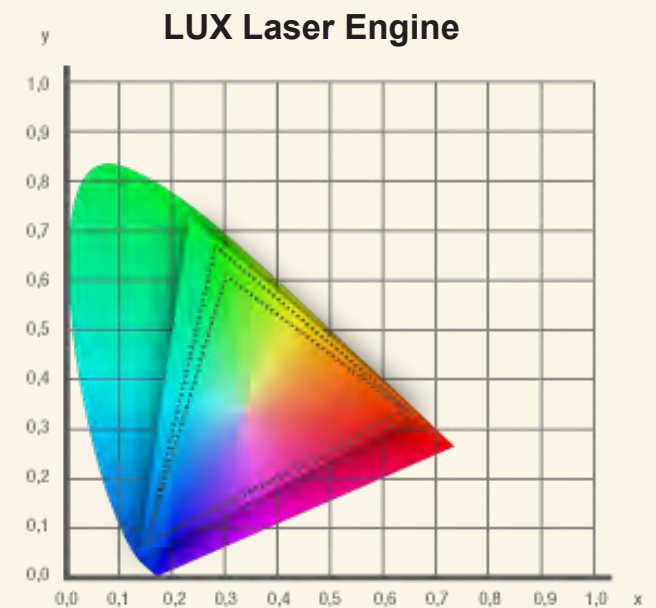
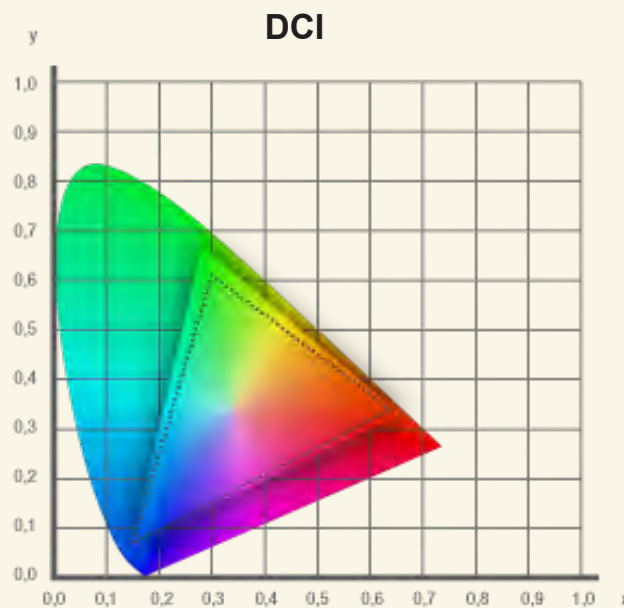
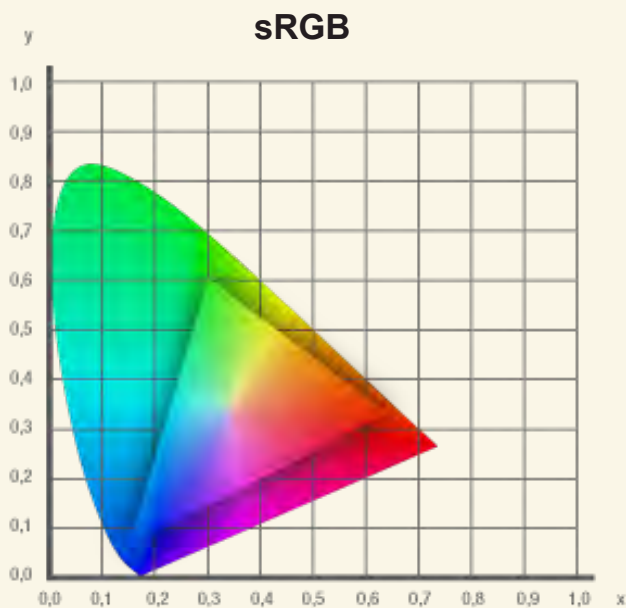




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COLOR

- RGB Laser Modules Create Several Primary Colors
- Color gamut much wider
- Crisper and more vivid colors
- Constant color level over time





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3D EXPERIENCE

- Laser = 14 FL in 3D !
- 14 FL for 2D and 3D (not possible with Xenon!)
- Preset brightness levels
- Automatic selection of lowest power module to be used



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3D COMPATIBILITY

- Compatible with all 3D technologies:
 - 3D active tech including XPAND LUX Laser optimized 3D active glasses
 - 3D passive tech including XPAND LUX Laser optimized modulator and passive glasses
 - 3D color separation tech including XPAND LUX Laser glasses (to be released soon)



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FLEXIBILITY - MODULARITY

- Modular, scalable & upgradable solution
- 19K – 29K – 37K – 48K – 57,5K
- 2 Laser modules per drawer (4 to 6 drawers per rack)
- Individual lasers can be switched off.
(i.e. a 6 drawer rack could emit only 19K Lumens)
- One rack up to 29K, 2 racks from 37K to 57,5K
- One dedicated chiller in each rack



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FLEXIBILITY - MODULARITY

Rack Design





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RETROFIT

- **CMC will cover remaining part of the warranty** period as granted by projector manufacturer up to 7 years!
- Valid for any DLP Series 2 projector
- Up to 30% more brightness than Xenon maximum power (ex. Barco DCP4K-8L: Xenon 38,600 lms >< Laser at 57,500 lms)
- Easy lamp house replacement with LUX adaptor



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FLEXIBLE INSTALLATION

- **Projector separated from laser light source. Racks can be located anywhere**
- **Easy installation in smaller booths**
- **Light streamed via optical fiber cable, (standard length 2 m but can be extended)**
- **Projector head does not require extra ventilation**



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MAINTENANCE & OPERATIONAL COSTS SAVINGS

- **No more lamp costs**
- **No replacement service costs and risks**
- **Pay for needed power**
- **Full control via touch screen or internet**
- **Redundant components**



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GREEN POWER

- **50% less power consumption for same brightness**
- **No lamp recycling**



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With a world wide engineering, sales and technical support presence. Talk to us about your projects.

Financing and leasing options available in selected territories!



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Thank you & talk to you soon on the trade-show
floor!

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