



## ***HIGH-S-LIGHT 250G BOOST-SYSTEM***

### *Acceleration Resistant On-Board Lighting System*

Due to the use of modern techniques the system offers

- Acceleration resistance up to 80G
- High luminous efficiency of up to 100 lm/W
- Daylight colour temperature of 5.600 to 6.000K
- Flicker-free light, Modulation  $\pm 1\%$
- High illuminance due to the BOOST-SYSTEM
- Low heat radiation due to the spectral distribution of the lamp and the Standby Mode
- Stabilized power output, even when mains varies

The HIGH-S-LIGHT 250G BOOST-SYSTEM is a special design to match the requirements of illumination for High-Speed Photography on-board of a crash test vehicle or on sled test applications.

The Luminary is equipped with a 250W metal halide lamp and a special igniter to start the lamp.

The optical system is a parabolic reflector. Within this system the lamp could be mechanical adjusted in three steps (flood - medium - spot). The characteristic colour temperature is 5.600 to 6.000K / Daylight. During its lifetime the lamp will loose about 1K/h on color temperature. The average lifetime of the lamp is 250 hour or 800 starts.

The EPS-Modul 250, is an electronic power supply. It drives the lamp with square-wave current and controls the power. This reduces the modulation of the radiation to less than 1% and allows flicker free pictures. The EPS-Modul offers operation modes from 100% or 200% of the nominal lamp power. The 200% mode, the so-called BOOST, offers more than twice the light intensity for about 10 seconds.

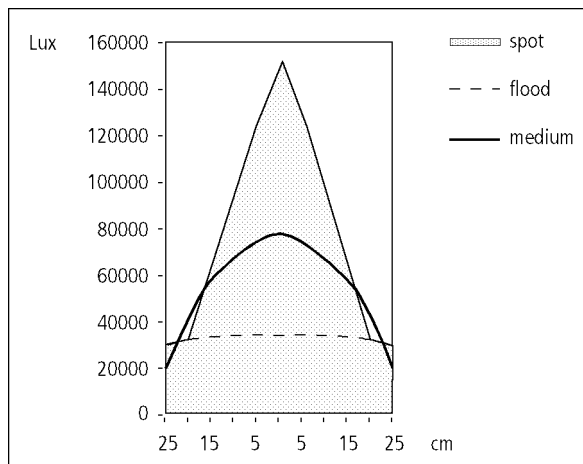
The 50% mode, the Standby, is used to reduce the heat radiation to the samples before the test is executed. Due to the reason that there is also a spectral shifting of the lamp at 50% power, the infrared portion will be reduced down to 30% at this mode.

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The unit is also equipped with a cable length compensation switch, so to achieve the same light output for various distances.  
The ON/OFF and BOOST functions can be also controlled external.



**khs**

K. H. Stevernagel Lichttechnik GmbH

Gerauer Straße 56a  
64546 Mörfelden-Walldorf  
Germany

Phone: +49-6105-91286  
Fax: +49-6105-912880

www.khslight.com

#### Technical Informations

##### Luminary

Lamp power	250W
Colour temperature	5.600 to 6.000K
Illuminance	150.000 Lux Spot/20.000 Flood within 1m distance
Average lifetime of the lamp	250h/800 starts
Dimensions	120x120x185mm (WxHxL)
Weight	2,2kg

#### Technical Informations

##### Power Supply

Mains	90-264V/47-63Hz 1PH/N/PE
Operating Conditions	0 to 35°C
	no dew
Protective measures	open circuit control over temperature protection
Output power	250 to 500W
Shape of curve	square-wave, bipolar
Light modulation	± 1%
Efficiency	ca. 80%
Weight	2,2kg