

The Range Light E8552 utilizes highly efficient LED technology to provide a narrow high intensity light beam guaranteeing nighttime visibility range of up to 14 nautical miles. The light consists of an inner light unit box with a transparent polycarbonate front cover and anodized back cover, housed inside a powder painted outer metal enclosure with hot zink coated base plate and adjustment facility. Optical and electronic devices: LEDs, custom lenses, and a controllable power supply unit - are protected from the environmental influence to IP67. The E8552 lights are currently available in one of the three colours: red, green, or white.

At the installation site, the light will be fixed to the host structure by the base plate. Direction of the light beam around the horizontal axis can be adjusted by rotation of the enclosure with the light unit. Direction of the light beam in vertical plane is adjusted by deflection of the light unit within the outer enclosure. For the precise adjustment of the light beam, an optional optical sight mounted to the upper backside of the light can be used.

### *Features*

- Designed using Luxeon's revolutionary, energy efficient and compact new Lumiled STAR™ light sources, combining the lifetime and reliability advantages of Light Emitting Diodes with optical lenses designed at Cybernetica
- High intensity (up to 18,000 cd) narrow light beam, field adjustable around vertical and horizontal axes
- External control of flashing using a flasher of any available type
- In order to extend the visibility area at short distances, we offer range light versions with extended light beam formed by two or three additional wide angle light sources (see specification B). This is a new feature, enabled by implementation of LED technology

Note: STAR™ is a registered trademark of Lumileds Lighting, LCC



**Department of Navigation Systems EKTA**

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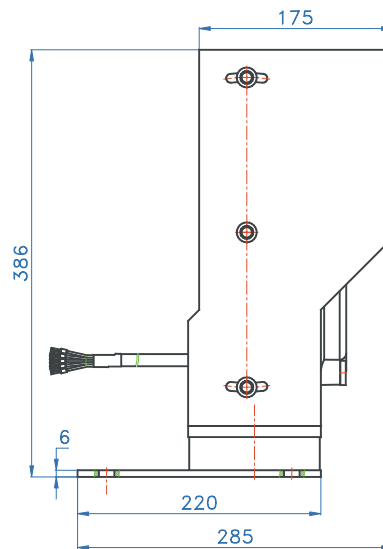
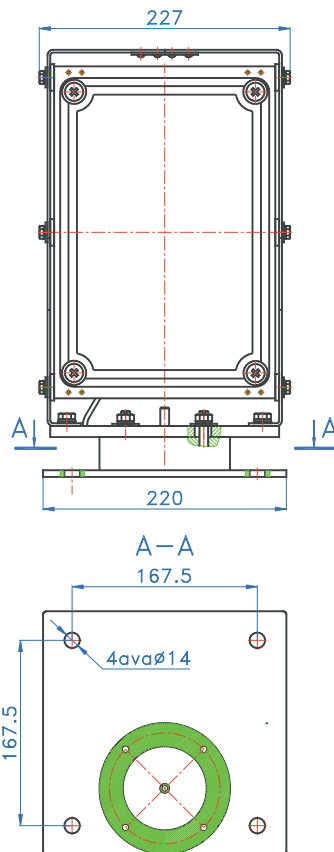
E-mail: [ekta@ekta.ee](mailto:ekta@ekta.ee)

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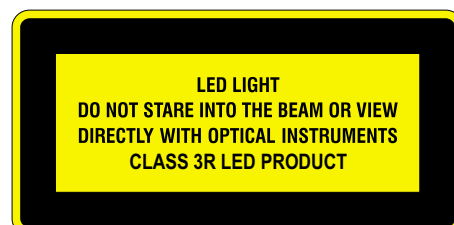
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**Technical specifications**

Parameter	Minimal	Typical	Maximal
Wavelength of red light	612 nm	625 nm	645 nm
Wavelength of green light	490 nm	505 nm	520 nm
Radiation temperature of white light	4500 K	5500 K	8000 K
Light intensity of red light	18 000 cd	20 000 cd	22 000 cd
Light intensity of green light	16 000 cd	18 000 cd	20 000 cd
Light intensity of white light	14 000 cd	16 000 cd	17 500 cd
Horizontal divergence $2_{1/2}$	2.5 deg	3 deg	
Horizontal divergence $2_{1/10}$	4.5 deg	6 deg	
Vertical divergence $2_{1/2}$	2.5 deg	3 deg	
Voltage range	from 10 up to 30 V DC		
Power consumption in flash	16 W		
Ambient air temperature	from -30°C up to +55°C (IEC 60068-2-1,2)		
Relative humidity	up to 98% at temperature +30°C (IEC 60068-2-30)		
Operation in conditions of salt mist	allowed (IEC 60068-2-52)		
Mechanical vibraton	10 – 500 Hz with acceleration up to 2.2 g (IEC 60945-8,7)		
Allowed wind speed	up to 180 km/h (100 knots)		
Ingress protection class	IP 67 (IEC 60529)		
Mechanical impact resistance of the front cover	IK09 (EN 50102)		
UV radiation tolerance	IEC 60060-2-5		



Layout and dimensions of the Range Light E8552



E8552



**MAXIMUM OUTPUT OF LED RADIATION: 300 mW  
EMITTED WAVELENGTHS 400 TO 700 nm  
IEC 60825-1:1993+A1:1997+A2:2001**

**Specification B**

Lights with standard and extended beams  
(6 deg sector shown with dotted line)

Visibility area at the atmospheric transparency  $T = 0.74$  on the outside border of which the luminance of the light beam on the retina of human eye is equal to or greater than 0.2 micro lux. (visibility criteria according to IALA Recommendation E112)

*New!*



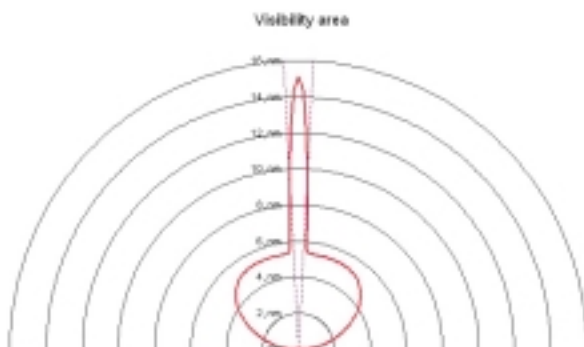
Standard beam



Option 1: extended beam version



Option 2: extended beam version



Option 3: extended beam version

When asking for price quotation, specify your requirement for near field visibility (angle and range).