

LED Projector Sector Lanterns E8592

LED Projector Sector Lanterns E8592 are intended for use in shore side installations of visual aids to navigation (AtoN) infrastructure as medium range / high precision sectored light signal sources to display different signal colours over designated arcs. An **E8592** Sector Lantern is intended for reliable and energy efficient long term operation in field conditions, controlled by an external flasher by the use of a modulation input allowing to apply quick PWM when necessary.

Main features:

Number of sectors	3 (R, W, G)
Typical luminous intensity of the light signal per colour	up to 21000 cd
Subtense angle coverage per sector (total approximately 12°)	up to 4°
Vertical divergence (FWHM)	up to 4°
Achievable boundary resolution	≤ 0.04° (2')
Range of beam adjustment in field conditions, H / V	±6° / ±3°
Nominal range (T=0.74, 0.2 μlx)	up to 11.5 NM
Operating voltage	10...24 VDC
Power consumption in flash	≤ 45 W
Ingress Protection rating	IP67
Weight	19 to 30 ± 0.5 kg



NOTE: High luminous intensity, wide sectors and low power consumption cannot be achieved at the same time.

The E8592 Sector Lantern enclosure is equipped with bird deterrents and is fully sealed, housing a power conditioning module, a LED and mirror / lens block, and a desiccant package. The lanterns optical configuration is precision adjusted at the factory in accordance with customer sector and intensity requirements; only simple set-up procedures of beam orientation by tilting and turning the whole unit are required during the installation. Power consumption, length and weight of a lantern may differ depending on required light intensity and total subtense angle.

The E8592 Sector Lanterns are precision electro-optical devices that are manufactured to customer orders, with each unit intended for operation at a specific AtoN site. When requesting a price quotation for an E8592, please provide us with AtoN site specific sector and light intensity requirements. Power consumption of the product depends on the light intensity setting established during manufacturing. Configuration with each sector independently controllable is possible, but the best power efficiency is achieved with simultaneous control of all colours.

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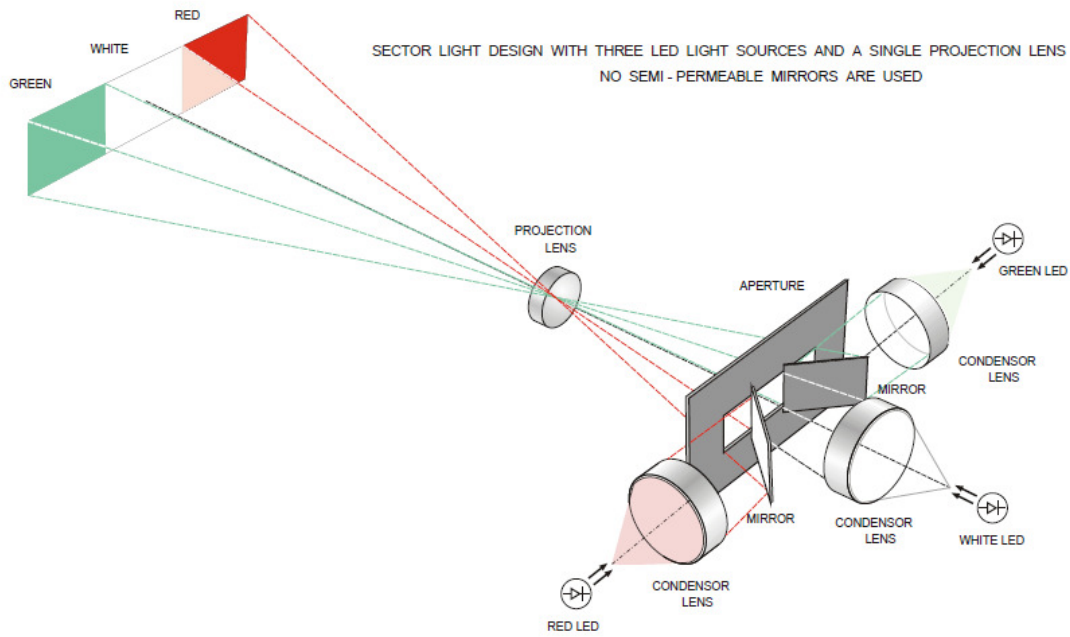


Figure 1. The principles of light signal formation in the LED Sector Lights E8592.RWG.

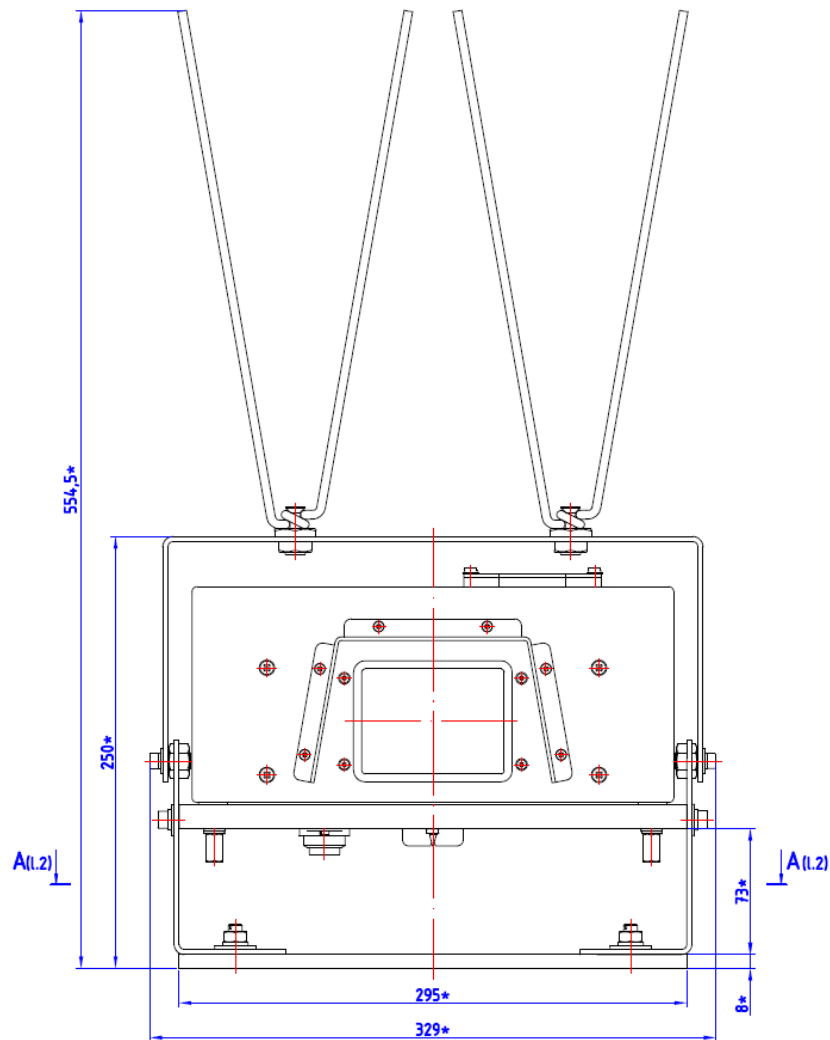


Figure 2. Lantern E8592.RWG measurements, front view; maximum depth is 500 or 600 mm.