

FT Opto Laboratories

Client
Eflare Corp Pty Ltd
222 St Kilda Rd
St Kilda Vic
Australia

Test Report No
052409

Date
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Test of Daylight Threshold of Eflare

Two EF510A fitted with day light sensor were tested for sensitivity to sunlight level.

Once switched on, at moderate to high daylight levels the Eflare should extinguish, and should be active at low ambient light levels.

The construction of the Eflare is such that the sensor is most sensitive to light from a vertical direction. However, test standards (eg AS 1165) require that the test of ambient light threshold is performed with light from the side, no doubt simulating a setting sun.

Accordingly, test of threshold was made with actual setting sun and lux meter. Sky conditions were clear overhead, with some cloud on the western horizon.

The above standard requires that the light be active for ambient light level below 100lux, and must be extinguished above 1800 lux. In other words the activation threshold should fall between these values.

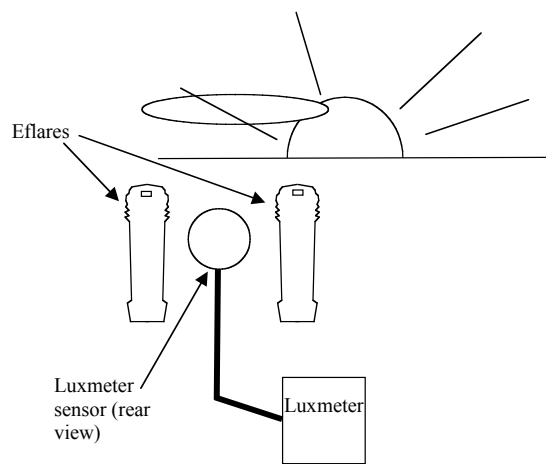
The results are shown here:

Serial	Ambient Light Activation Level /lux	Maximum permitted (AS1165)	Minimum permitted (AS1165)
53211	590	1800	100
53212	540	1800	100

The lux meter sensor was aligned to the west, making it insensitive to vertical light.

It is suspected the Eflare threshold may vary with cloud conditions which cause the vertical light levels to vary (probably to reduce, causing an increase in the effective threshold level).

The Eflare extinguishes at the same light as it comes on, ie no hysteresis.



Lux meter GEC Instruments Minilux with flat selenium sensor.

Test Officer Rex Niven