

All teams registered for the 2021 Ilanga Cup should note the following official updates to the amended Technical Regulations as approved by the Event Director, Robert Walker.

This Team Notice refers to the change and clarification regarding Technical Regulation 1.24 – Lighting.

Please note: Headlamps are not compulsory, but all participating solar cars must have daytime running lamps and rear stop lamps.

1.24 Lighting

1.24.1 Solar cars must be fitted with:

- two rear stop lamps
- one central stop lamp
- two daytime running lamps

Daytime running lamps and tail lamps are compulsory for all competing solar cars.

1.24.2 Stop lamps must emit red light. Direction indicator lamps must emit amber light. Daytime running lamps must emit white light.

1.24.3 Lamps must be compliant with UNECE Regulations 6, 7 and 87, or the SAE/DOT equivalents. Teams must demonstrate compliance by either:

- the presence of compliance markings on the lamps, or
- detailed documentation that demonstrates compliance with the photometric requirements of the UNECE or SAE/DOT regulations, confirmed by the certifying engineer.

Lamps approved for motorcycles may not meet these requirements.

1.24.4 Solar cars must have the correct type of lamp in each position. For example, side marker lamps may not be used as stop lamps. Lamps must be mounted with the correct orientation so that the photometric requirements of UNECE Regulations 6, 7 and 87, or the SAE/DOT equivalents, are met.

Lamp	UNECE category	SAE/DOT type
Stop lamps	S1, S2	S
Central stop lamp	S3	U3
Daytime running lamp	RL	Y2

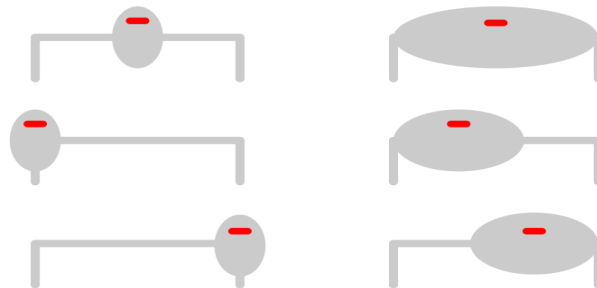
Lamp position and visibility requirements are based on UNECE Regulation 48.

1.24.5 Rear stop lamps must be within 400 mm of the extreme outer edge of the solar car on each side, at least 600 mm apart (at least 400 mm apart if the solar car is less than 1300 mm wide), and at least 350 mm above the ground. The entire apparent surface must be visible 15° up, 5° down and 45° to the left and right.

The “apparent surface” of a lamp includes all parts of the lamp surface that emit light and are not obscured by other parts of the light-emitting surface.

1.24.6 A central stop lamp is required. Viewed from behind the solar car, the lateral position of the lamp must coincide with the visual centre of the solar car (see the examples in the following

diagram). The lamp must be higher than a point 150 mm below the rear windscreen or canopy, and the bottom of the lamp must be higher than the top of the rear stop lamps. The entire apparent surface must be visible 10° up, 5° down and 10° to the left and right.



- 1.24.7 Daytime running lamps must be mounted at the front of the solar car, at least 600 mm apart (at least 400 mm apart if the solar car is less than 1300 mm wide), and at least 250 mm above the ground. The entire apparent surface must be visible 10° upwards, 10° downwards, 20° outwards and 20° inwards.
- 1.24.8 The stop lamps must operate whenever driving is possible and
- 1.24.9 The daytime running lamps must operate whenever driving is possible.

All changes as per this Team Notice 1.0 will supersede all previous Technical Regulation 1.24 – Lighting.

Please note all changes relate to the amended Technical Regulations of the 2021 Ilanga Cup taking place at Red Star Raceway in Delmas, Mpumalanga.



Robert Walker
Event Director