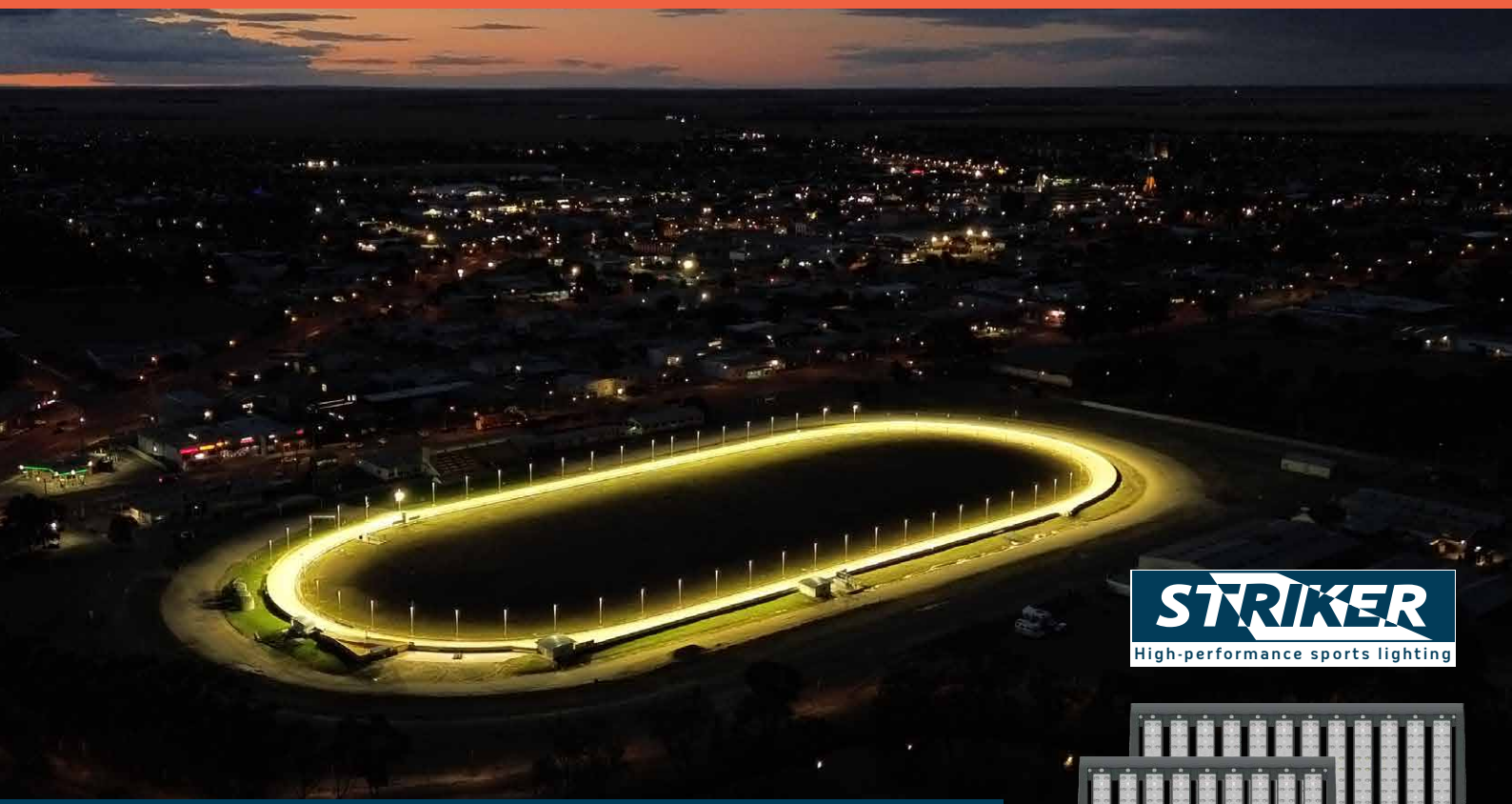
tigerlight | HIGH-PERFORMANCE INDUSTRIAL LIGHTING



Case Study

Greyhound Racing Victoria briefed Tigerlight to upgrade track lighting at Horsham, The Meadows, Warrnambool, Ballarat,and Geelong tracks. Our team of certified lighting engineers constructed lighting plans to meet TV broadcast requirements and obtrusive lighting standards.

GRV GREYHOUND RACING VICTORIA

Summary

GRV sought to upgrade the lighting at these five greyhound racing tracks utilising existing infrastructure. Their objectives were to vastly improve the viewing experience, particularly in television broadcasts, as well as improving the safety of track personnel, trainers and greyhounds.

STRIKER high-performance LED sports lighting delivered on those objectives and all 5 venues are now completed with outstanding results.

Challenge faced

The target of 700-750 lux average all around the track was required to fully satisfy the TV broadcasting requirements for future meets.

Uniformity of the light distribution was also vital along with the obligation to meet Australian Standard AS4282 for Obtrusive Lighting to avoid impacting negatively on neighbouring properties.

Solution

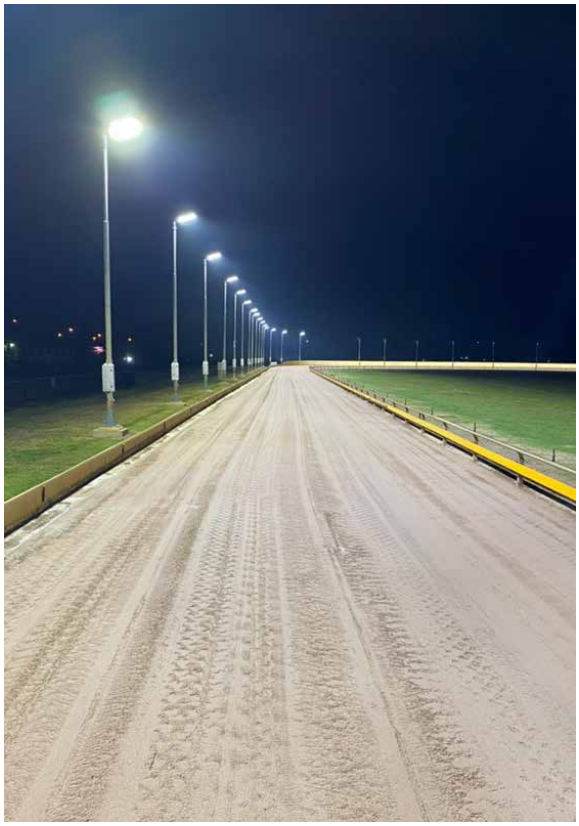
Track layouts and existing poles varied to a degree, especially Geelong which has two concentric tracks.

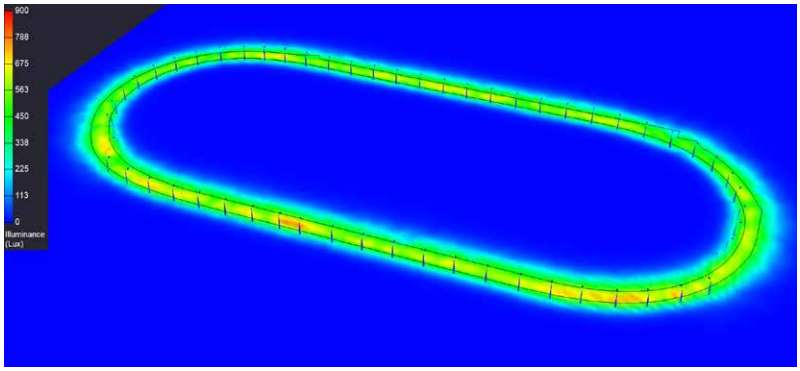
Our experienced sales team conducted detailed site audits, working with site management and local electical contractors to identify critical site-specific issues and opportunites.

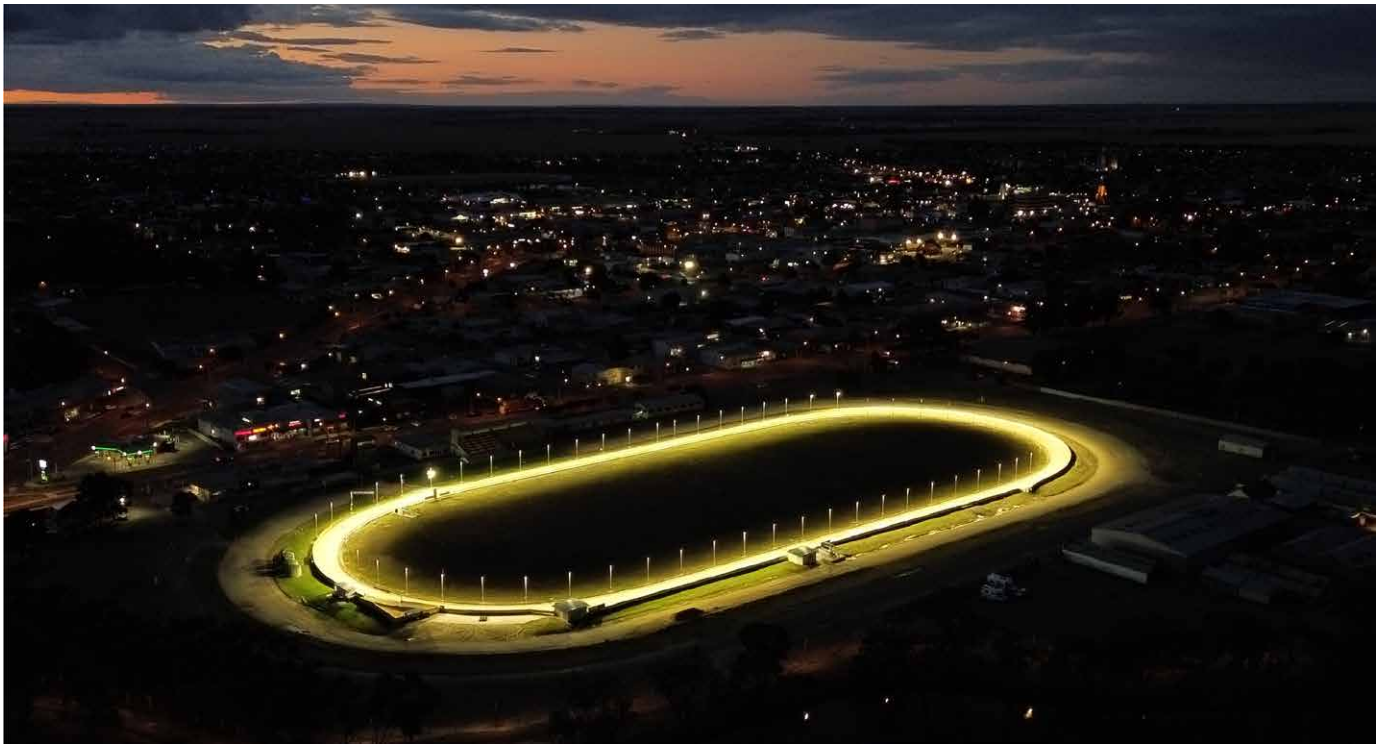
This allowed our in-house accredited lighting engineers to develop individual lighting plans with an eye to practicality and ease of installation.

The results were excellent at each of the 5 tracks:

- HORSHAM
- MELBOURNE / THE MEADOWS
- WARRNAMBOOL
- BALLARAT
- GEELONG.



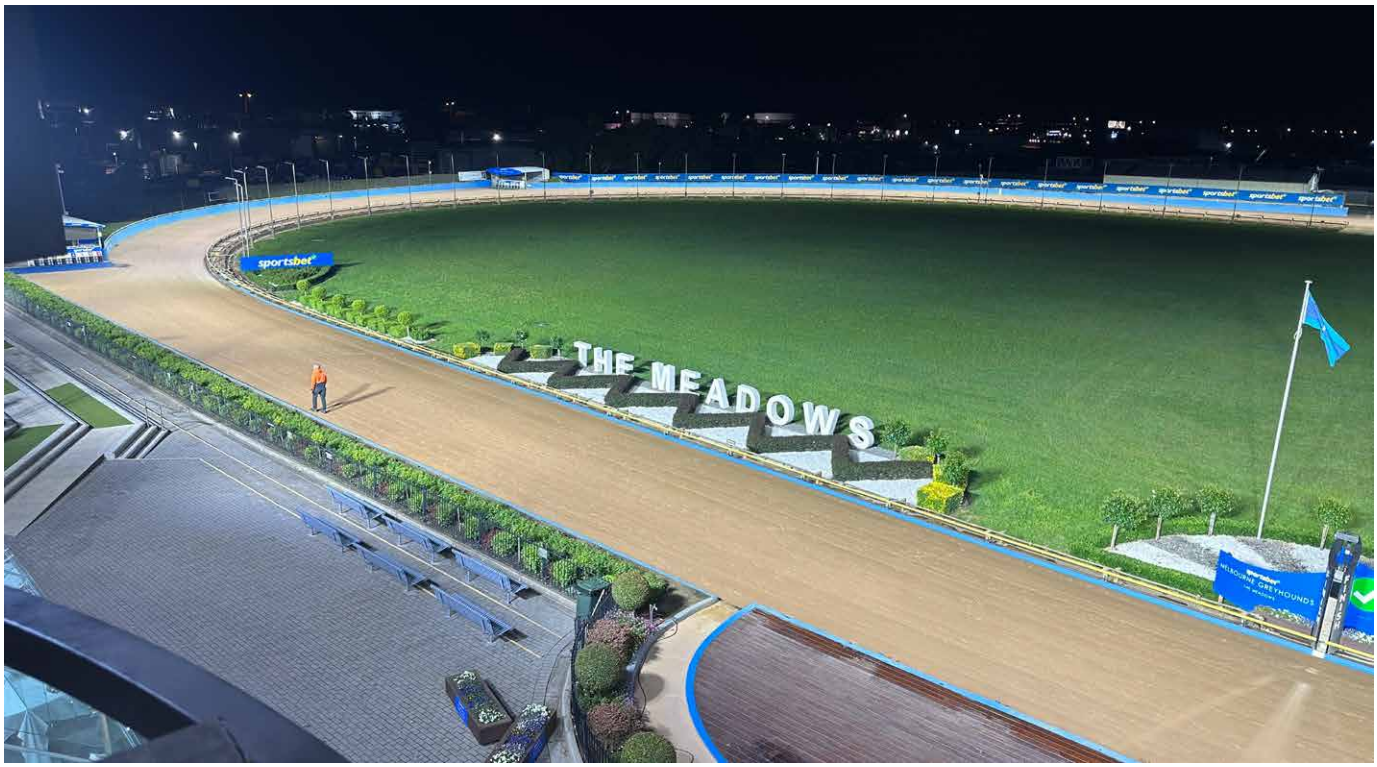


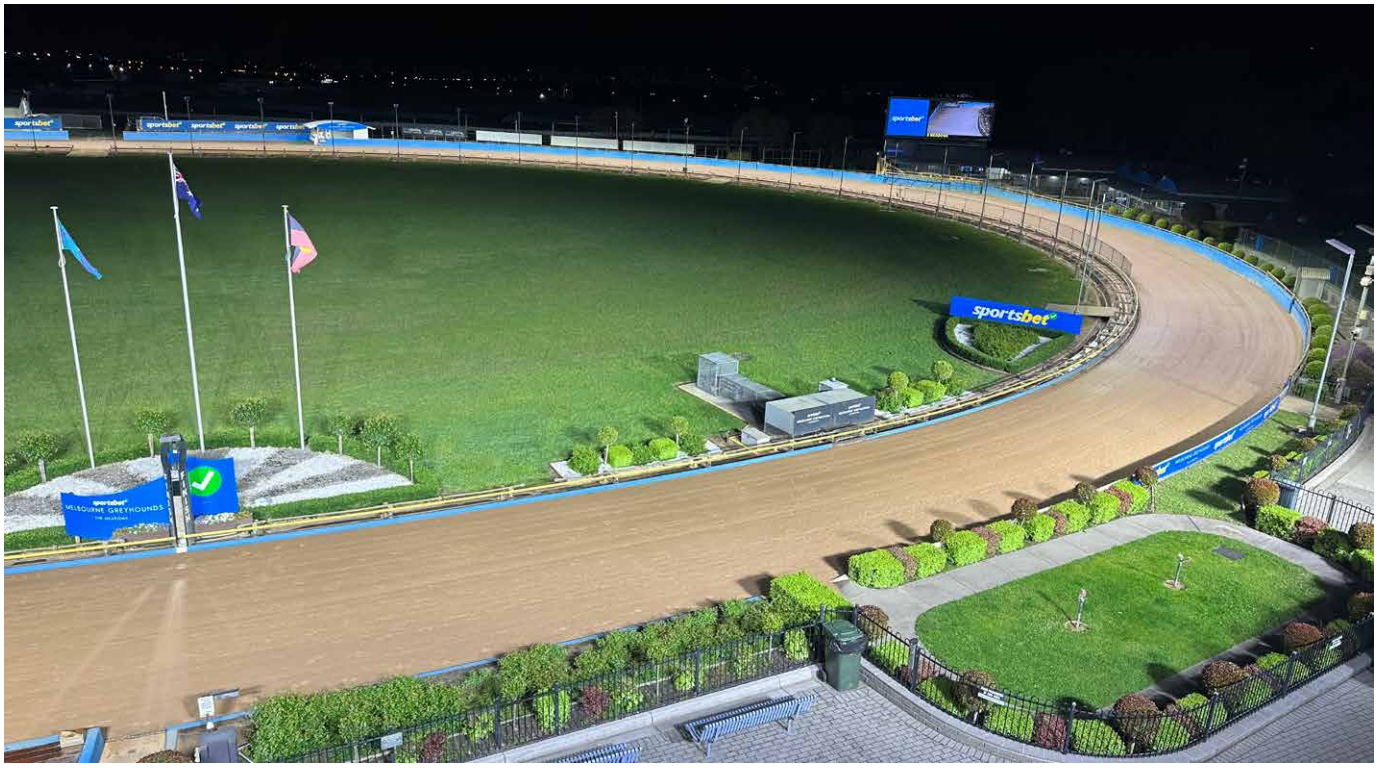


HORSHAM GREYHOUND RACING CLUB

STRIKER High Performance Sports Lighting. Pictured above.

59 x 960W luminaires.
Average light level over the track area was increased from 250 lux to over 700 lux, making an incredible difference to the viewing experience of patrons at the track, and also satisfying requirements for television broadcasting (accepted range is 700 - 750 lux).
Optics specified were T4MB, which delivered excellent uniformity and minimal obtrusive light spill.
Colour temperature 5000K.
Housing colour was grey, to match existing 6m poles. Rotatable spigots were used for pole-top mount.
In order to prevent corrosion from the salinity of the water used on the track, Tigerlight specified that the remote drivers were installed in stainless steel boxes mounted on the poles.

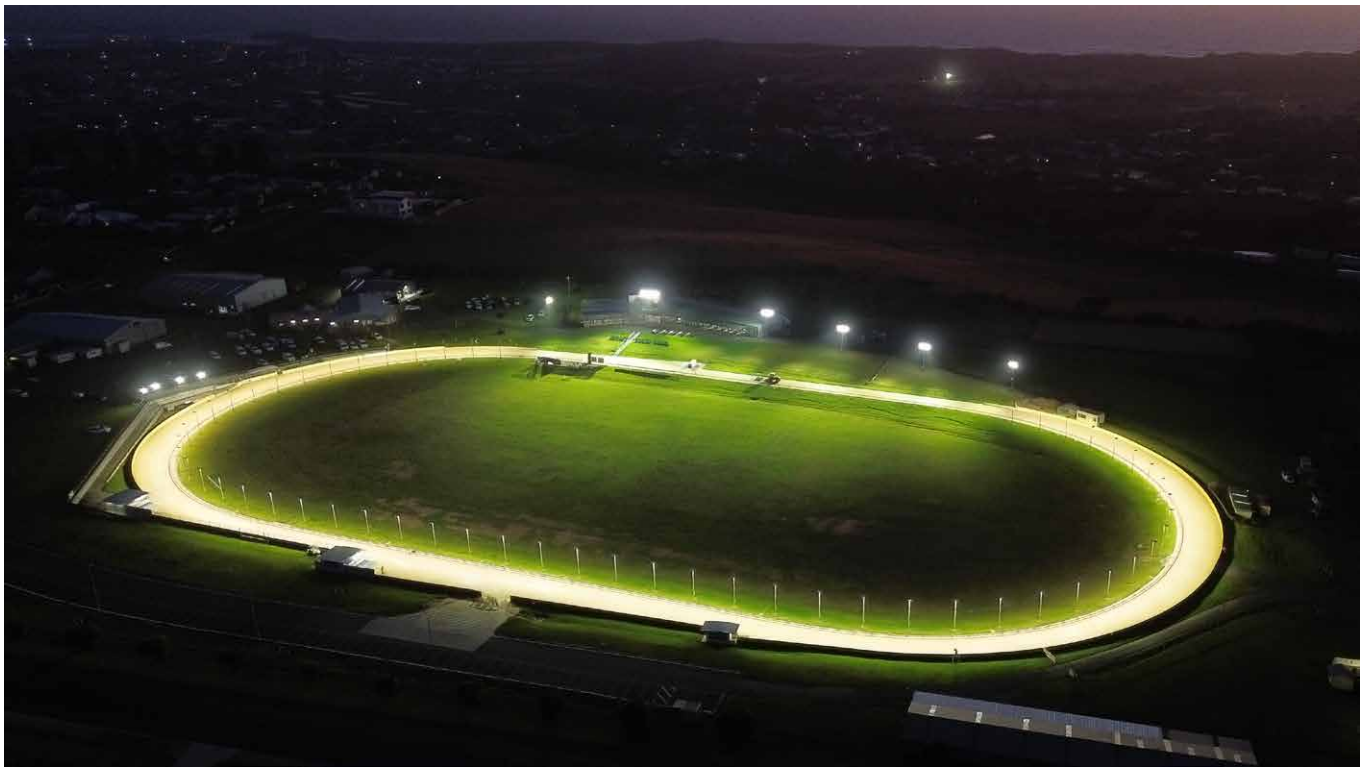


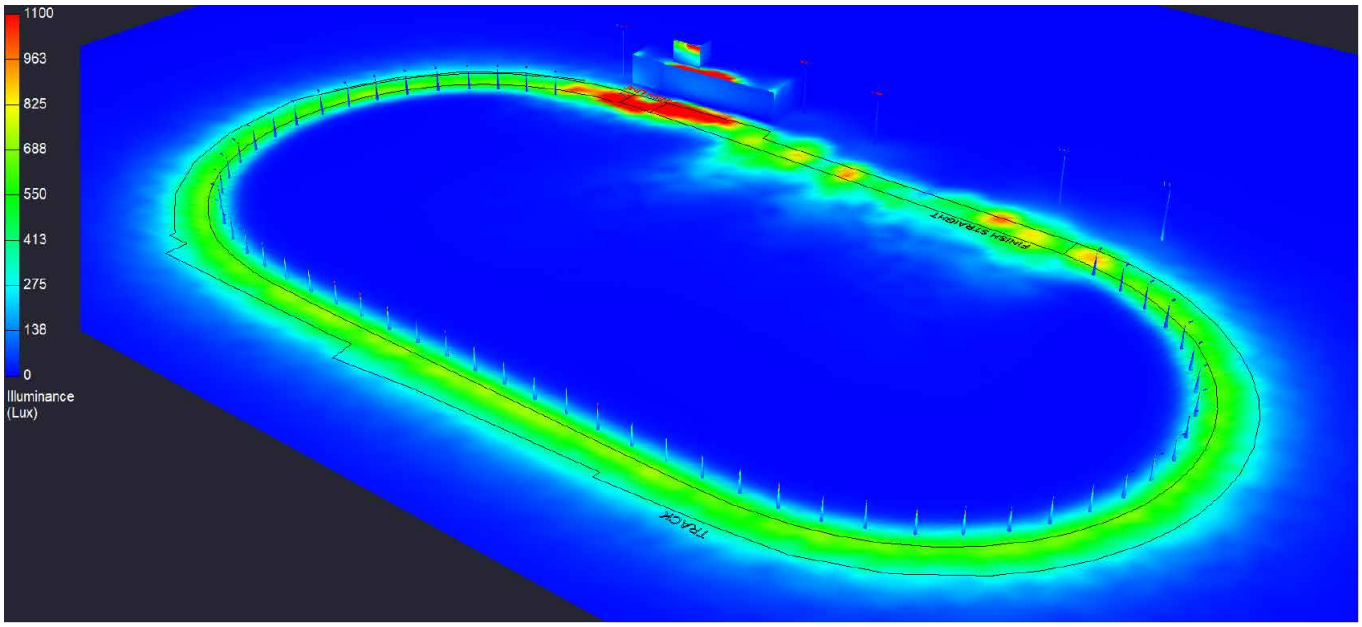


MELBOURNE / THE MEADOWS

STRIKER High Performance Sports Lighting. Pictured above.

45 x 960W and 22 x 1440W luminaires, supported by 7 x MegaFloods 480W & 640W on buildings and over starting boxes.
Average light level over the track area is 700 lux. Home straight 834 lux. Finish Line 1300 lux.
Optics specified were T4MB, T20D and one T4VSB, all of which delivered excellent uniformity and minimal obtrusive light spill. Colour temperature 5000K. CRI >70.
Voltage was 415VAC and 240VAC as per existing power supply.
Housing colour was grey, to match existing 6m poles.
Rotatable spigots were used for pole-top mounts and Trunion brackets on wall-mounted luminaires at 10m heights. Additional poles were installed at the start and end of the home straight.

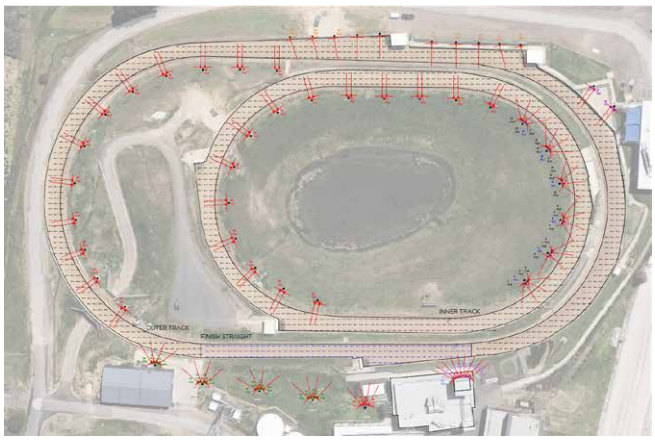




WARRNAMBOOL

STRIKER High Performance Sports Lighting. Pictured above.

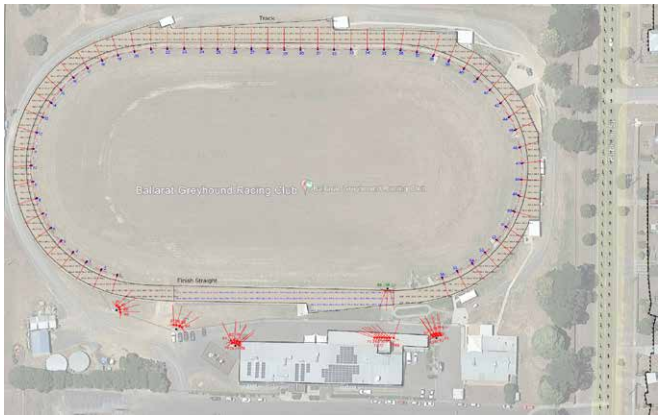
The distance between the buildings and the track presented challenges, which were met by our lighting design team specifying higher output Striker luminaires on the existing 15m poles.
56 x 960W Strikers on 6.5m poles around track. 3 x 640W, 7 x 1440 W and 7 x 1920W Strikers mounted at 15m. Supported by 3 x 300W MegaFloods on 3m poles over the finish line.
Average light level over the track area is 830 lux. Home straight 847 lux.
Optics specified were T4MB, T20D and one T4VVSB, all of which delivered excellent uniformity and minimal obtrusive light spill. Colour temperature 5000K. CRI >70.
Voltage was 415VAC and 240VAC as per existing power supply.
Housing colour was grey, to match existing 6m poles.
Rotatable spigots were used for pole-top mounts and Trunion brackets on 15m poles.

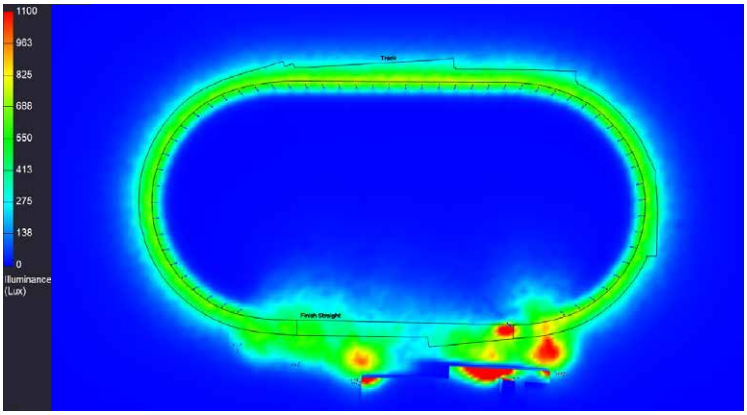


GEELONG

STRIKER High Performance Sports Lighting. Pictured above.

A lighting plan was constructed utilising existing infrastructure only, which restricted the lux levels achievable in some parts of the track.
41 x 960W and 31 x 1440W Strikers on 8m and 15m poles around track. Also 2 x 480W and 10 x 720W MegaFloods were mounted on 6m poles.
Average light level over the inner track area is 586 lux. Outer track 584 lux. Home straight 651 lux.
Optics specified were T4SB, T20D, T40D and T4VVSB, all of which delivered acceptable uniformity and minimal obtrusive light spill. Colour temperature 5000K. CRI >70.
Voltage was 415VAC and 240VAC as per existing power supply.
Housing colour was grey, to match existing poles.
Mounting brackets were mainly trunion brackets with ten rotatable pole-top mounts.





BALLARAT

STRIKER High Performance Sports Lighting. Pictured above.

Past lux levels were as low as 189 lux over the track. The lighting plan reduced the number of HID lights from two to just a single 960W Striker in order to reduce installation costs.
56 x 960W Strikers on 6m poles around track. 32 x 1440 W Strikers mounted at 15m.
Supported by 3 x 480W MegaFloods on 3m poles over the finish line.
Average light level over the track area is 675 lux. Home straight 682 lux.
Optics specified were T4MB and T4VVSB, which delivered very good uniformity and minimal obtrusive light spill. Colour temperature 5000K. CRI >70.
Voltage was 415VAC and 240VAC as per existing power supply.
Housing colour was grey, to match existing poles.
Rotatable spigots were used for 6m pole-top mounts and Trunion brackets on 3 m and 15m poles.

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STRIKER
High-performance sports lighting

STRIKER HIGH PERFORMANCE SPORTS LIGHTING
TAILOR-MADE TO YOUR SPECIFICATION

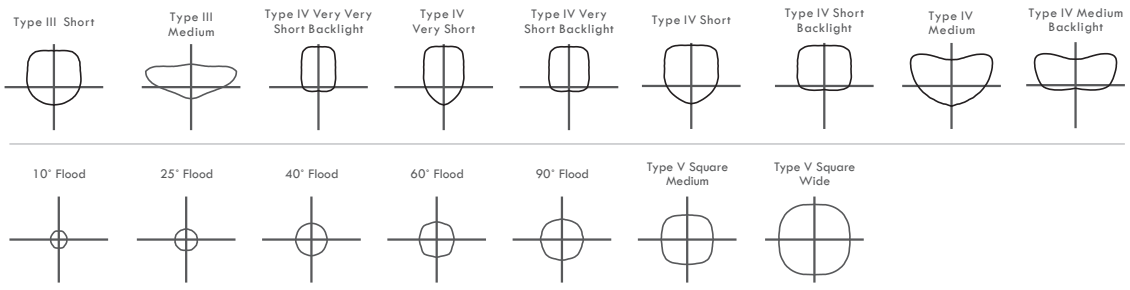
- 130+ lumens per Watt output
- Modular construction with natural air flow
- Ceramic-based LEDs - superior thermal properties
- High-performance SSM series Inventronics drivers
- Dimmable 1-10VDC or DALI
- 277V or 415V voltage options
- Power factor >0.95
- Surge protection to 20kV/10kA
- 19 optical lens options - asymmetric and symmetric
- CCT 5000K
- CRI >70. CRI >80 on request
- IP66 and IK10 rating
- Remote drivers
- Trunion or rotatable bracket option
- 5 year warranty

960W
126,000 lm

1440W
185,000 lm

1920W
254,000 lm

Lenses available - Asymmetric (with or without Backlight control) and 7 Symmetric



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