

Stadia and Sporting Arenas

Historically, the lighting control solutions provided for stadia and sporting arenas have comprised clusters of standalone networks for the hospitality areas and large contactor switching to manage the field lighting. The principal drawbacks to these simple solutions is that there is no centralized management, or flexibility to meet different uses and no embedded maintenance tools to streamline operations. By contrast, a Dyalite lighting control system is able to offer solutions that optimize control, maintenance and efficiency, as well as being versatile enough to achieve a virtually limitless number of lighting scenes for a wide range of venue events.

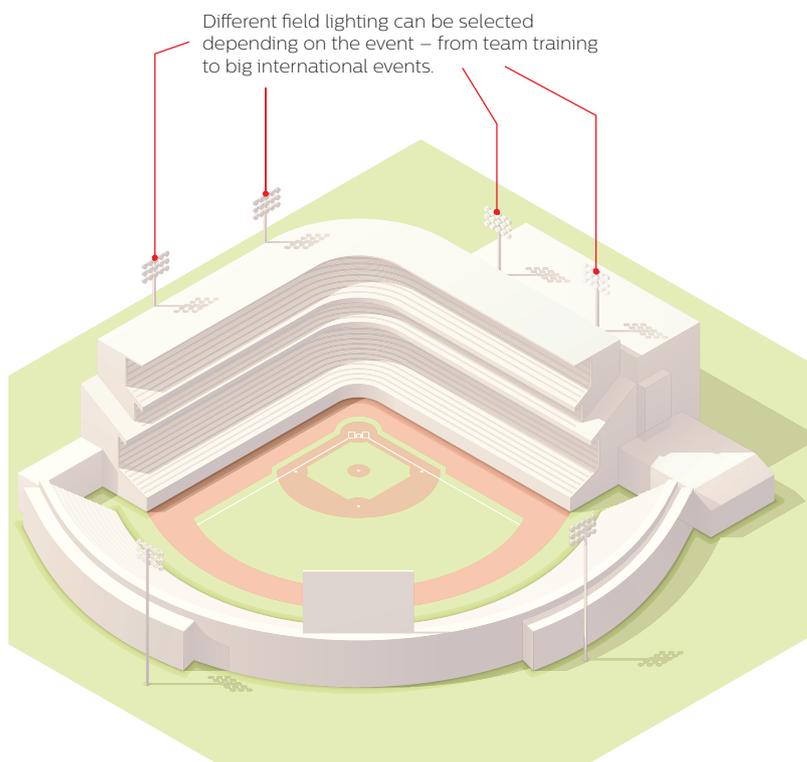
- Accommodates Digital Addressable Lighting Interface (DALI) control for all field and hospitality areas
- Works seamlessly with Philips LED state-of-the-art ArenaVision stadium lighting
- Flexible lighting levels for practice matches, night games and TV broadcast events
- Password-protected system with a range of reporting tools for optimized performance and maintenance
- Manages start-up routines to avoid peak in-rush currents and nuisance tripping
- Expandable and able to control any combination of lighting loads to meet evolving lighting needs over time

Typical layout

A typical Dyalite stadium lighting control system comprises a combination of DALI and relay controllers on an Ethernet backbone, with network bridges providing connectivity to lighting sub-networks and integrated third-party systems. The control network is managed by Dyalite's powerful EnvisionManager software.

EnvisionManager provides the stadium Facility Manager with a full graphical image of the system to enhance control, optimize maintenance and automatically complete scheduled activities — such as emergency lighting testing. The topology facilitates integration of third-party systems and ensures that the entire system operates at peak efficiency.

The Dyalite solution offers operational and maintenance cost savings, while providing an intuitive, informative and convenient interface to control and manage a stadium's lighting system.



DALI delivers

One of the key elements to the Dyalite stadium lighting control offering is DALI control. The individual addressability of every luminaire on the system means that the user has the ultimate flexibility to change group scenes and fine-tune luminaire levels to meet every conceivable venue lighting requirement.

Moreover, the DALI protocol provides real-time information on the status of all devices on the system. This allows the Dyalite solution to deliver enhanced system reporting while optimizing all maintenance requirements.

System outline

In effect, the Dyalite DALI solution ties multiple distribution boards together to operate as a single unified system, with one interface able to achieve seamless control for infinite devices. Typically, Cat6 or fibre-optic cabling is used to create an Ethernet backbone that links the risers and distribution boards. This approach reduces overall system cabling requirements and allows localized control, while maintaining building-wide system supervision.

Each device within the lighting control system can run multiple tasks and each controller can control a variety of loads. Dyalite has the hardware, the software, the expertise and versatility to deliver a tailored lighting control for a diverse range of events within the same venue, as well as the flexibility to adapt to changing requirements over time.

