



**TOPGOLF**  
LOUISVILLE

## OXMOOR CENTER

[www.topgolflouisville.com](http://www.topgolflouisville.com)

### Key Takeaways from Lighting Study

**Expert:** The study was conducted in May 2018 by Louisville-based Pharis Engineering to analyze existing lighting versus the proposed lighting package for the Topgolf Oxmoor Center development on specific metrics including light trespass, glare control, and light pollution.

**Key Finding:** The new scheme will result in a much-improved overall lighting environment. The revised system results in absolutely zero increased illumination at any residential area.

#### Key Changes:

- **Topgolf Lighting:** Adoption of specialty, downward-facing LED fixtures within the structure (no lighting on poles or top of facility) designed with tightly controlled lighting patterns resulting in virtually no light trespass beyond the field perimeter and NONE beyond the Oxmoor Center property.
- **Parking lot lighting:** A reduction in pole height to conform with the Land Development Code (LDC) and a transition to 100-percent LED lighting installations at the development site, especially along the eastern edge of the Oxmoor Center property. This will decrease the highest lighting output by 60% due to height reduction (overall lower light levels across site).

**New Topgolf Lighting:** The revised plan calls for specialty LED fixtures designed specifically to light the field with a high degree of accuracy and virtually no light trespass beyond the field due to the high degree of cutoff thanks to built-in glare control created by special lenses.

**New Parking Lot Lighting:** Adopts a site lighting package using full cutoff optics installed on poles a full 20 feet shorter than the existing system. New fixtures are all LED and are specifically engineered to provide dark sky, full cutoff illumination, consistent with LEED and Green Globes for eliminating wasteful and nuisance uplight.

- New scheme eliminates existing high glare, light trespass environment and replaces it with an LDC compliant system meeting the most stringent recommendations in the industry.
- Lighting fixtures closest to the boundaries of Oxmoor Center face “inward” toward the mall structure and away from neighboring properties and include Back Light Control to avoid spill-out from the property.
- New fixtures are capable of being dimmed to a variety of levels and can be adjusted as needed.

**Existing Parking Lot Lighting:** Current fixtures are a combination of older metal halide (common yellowish streetlamp) and retrofitted LED array heads installed at the top of 50-foot poles to illuminate the parking lots adjacent to the vacant department store.

- The existing metal halide fixtures have no cutoff and are not shielded for illumination above horizontal. The existing LED arrays are also not full cutoff and function by “throwing the light” across wide areas.
- Existing lighting units are considered “high glare” due to the above and are highly visible from adjoining properties.
- The existing poles are more than 1 1/2 times the current height restriction for lighting poles in the Land Development Code.