

# Are Sports Lights Right For My Job?



## Questions to Ask When Deciding on Lighting a Sports Field

This checklist has been put together to help guide your decision making when deciding what fixtures are best for your project. At RAB Design Lighting, we've been in the industry since 1968, and we want to pass on some of our expertise to you. So, if you're still unsure if a sports light is right for your project, this checklist is here to help.

### So, Do I Need a Sportslighter?

If you answer **yes** to any of the below questions, it's time to consider upgrading your sports field with a specialty sports light.

#### Who Uses This Field?



#### Does your facility cater to an older age group?

Consider not just the players, but also the viewers of the sport. Recent trends have shown that people across all age ranges, especially Boomers and Gen Xers are more becoming more conscious of adopting healthy lifestyles through outdoor sports.

#### Light Level Requirements



#### Are there dark spots on certain areas of the field?

Have you received complaints from participants or viewers?  
Do you need more light?



#### How bright do you need the field?

Do you have brightness levels specified? Based on the type and categorization of the of field, the IES Handbook recommends prescribed light levels.

For outdoor sports fields, prescribed brightness levels are 50 footcandles / 500 Lux with even light levels across the facility. Are you looking for an average of 500Lux (50Fcs) or more with an even illumination for an outdoor sports location?

## Light Coverage



### Is there an issue of light spill or light trespass?

Light trespass occurs when light goes beyond the area you are trying to illuminate. This could mean light going onto adjacent streets or into adjacent buildings where light is not intended to go to. Sports floodlights have visors that can cut off the light and avoid light spillage.

## Existing Light Sources



### Does your current installation use HID Lamps?

If they do, the lamps need to be replaced after 15,000 to 20,000 hours of use. Ballasts may also need to be replaced at times.

The cost of lamps and ballasts have risen sharply over the last five years, and are not as available as before. Replacing lamps and/or ballasts is costly because of the parts, labour and equipment required to reach the fixtures. A sportslighter has a 100,000 hour rating and 5 year warranty. Replacement parts for HID sportslighters are becoming expensive, difficult or even impossible to obtain.

## Mounting Heights



### Are the poles on which lights are installed at least 30' high?

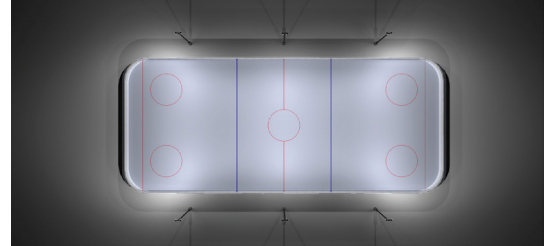
Sports floodlights perform optimally at higher mounting heights and controlled beam distributions. For lower mounting heights, a general wide beam flood may suffice.

## Get a Free Personalized Lighting Layout For Your Location

### Let Us Handle the Plan

Based off the criteria above, hopefully it has become clear if you need to upgrade your field's lighting and what type you lighting solution you might need.

RAB Design Lighting offers free personalized lighting plans and expertise to guide you every step of the way. We calculate the optimal light levels for your field and work with you every step of the way to get the best possible result.



### Questions We'll Ask You To Get it Done:

- 1** Is this a new installation or an existing sports field?
  - For a new or existing installations, please provide CAD drawings whenever possible.
  - Existing installations without CAD drawings available can use Google Earth™ to set the requirements and layout of the field.
- 2** What is the height of the poles on which the lights will be mounted?
- 3** What is your lead time?
- 4** What are you lighting requirements/standards for the level of play?
- 5** What is your pole quantity and location?
- 6** What fixture degree angles and aiming do you need?

**To Get Your Layout, Reach Us At: [layouts@rabdesign.ca](mailto:layouts@rabdesign.ca)**

### Need more information, or are ready to order?

Call us at **1-800-268-0381** or  
go to **[rabdesign.ca/contact](http://rabdesign.ca/contact)**



# SFL-LED

## Sports and Highbay Luminaire

Introducing RAB Design's high performance, ruggedly designed, multi-purpose sports and highbay luminaire, ideal for illuminating outdoor sports fields, construction sites and indoor highbay applications.

### IDEAL APPLICATIONS:

- |                       |                                  |
|-----------------------|----------------------------------|
| ✓ Stadiums and Arenas | ✓ Large Distribution Centers     |
| ✓ Construction Sites  | ✓ Rail, Work and Shipping Yards  |
| ✓ Hangars             | ✓ Bridges, Monuments and Facades |



Light is directed to ice rink, where it's needed



**NOTE: HOCKEY RINK IMAGE**

Fixtures are mounted at 35 feet. Poles are set back 10 feet.  
Hockey rink 202' feet long by 87 feet wide

Even illumination

# Enhance your sporting experience!

## MOUNTING OPTIONS: (PURCHASE MOUNT SEPARATELY)

### SFL1-LED



Slip Fit



Yoke



Highbay Yoke

### SFL2-LED



Slip Fit



Yoke



Highbay Yoke

## SPECIFICATIONS:

|                 | SFL1-LED500                 | SFL2-LED600 |
|-----------------|-----------------------------|-------------|
| Watts (W)       | 486                         | 601         |
| Lumens (Lm)     | 71,040                      | 92,533      |
| Efficacy (Lm/W) | 146                         | 154         |
| Voltage         | 120-347V                    |             |
| Color Temp      | 4000K, 5000K                |             |
| Finish          | Matte Black, Custom Colours |             |

## FEATURES:

- Fixture features a wide voltage range of 120-347V.
- 3 mounting options available - Yoke, slip fit and highbay yoke. Purchase mounting option separately. Mounting option can be installed by the Contractor on the field.
- Fixture is designed for easy installation. light weight compared to other sports lighters and has angle increments calibrated at the bottom of the fixture and on the yoke and slipfit for proper aiming.
- Available in a 4000K or 5000K CCT.
- Fixture is available in 3 beam distributions for sports flood lighting: 30°, 40°, 80° (SFL1) and 30°, 40°, 60° (SFL2).
- Options include laser pointer, visor, photocell, and 7PIN Receptacle

