



*Case Studies*



*Sports Field Lighting*

**Indirect Lighting LED Conversion**

# Product Used - SBX Luminaire Kit

Facility Operators had two needs that they wanted addressed with this retrofit project:

- 1) Increase illumination (40%)
- 2) Decrease maintenance requirements

## See The Ball

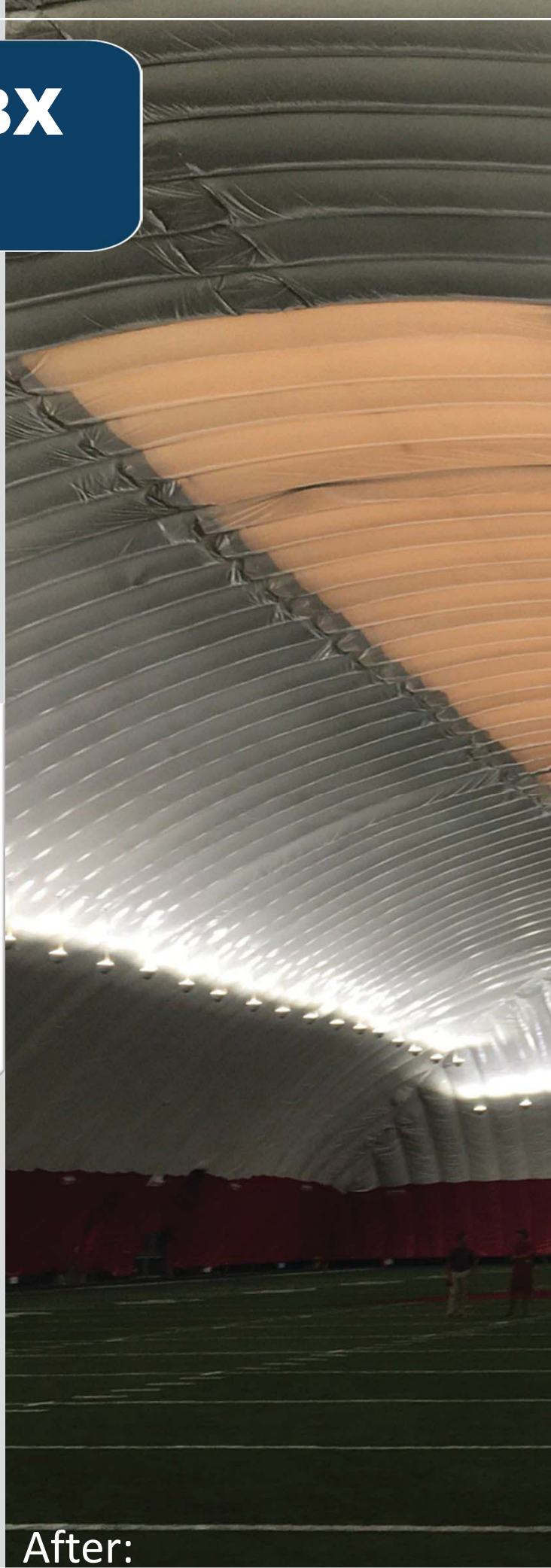
- Coaches and players had been complaining about the poor lighting in the facility for the past few seasons. Correctly simulating indirect light sources provides additional challenges to those of direct light sources. PLG performed an in-depth site survey that captured real world information, like wall reflectance and complex building geometries, and used this information to simulate before and after lighting levels.



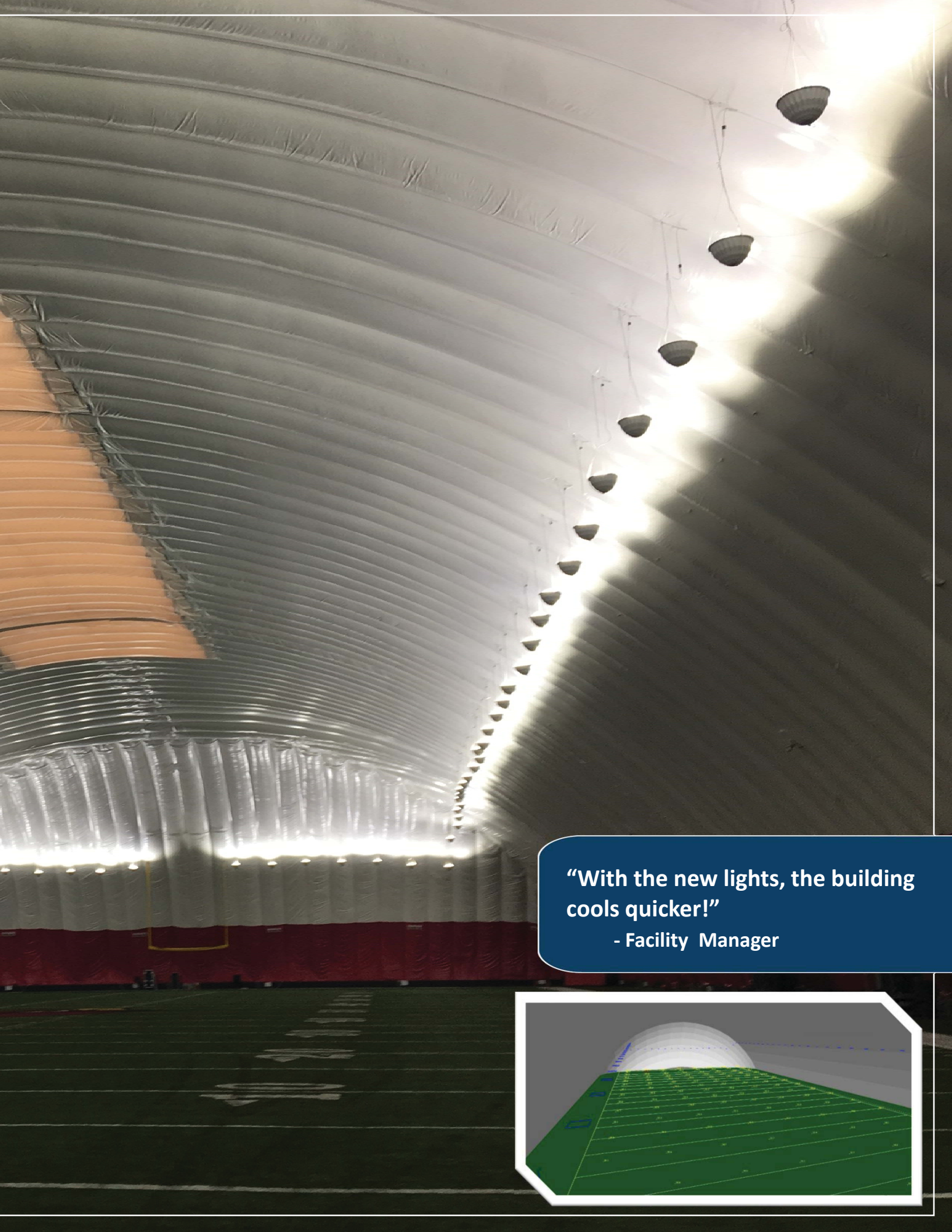
Before:

## Worry Free Maintenance

- The nature of the air structure and playing surface made it very difficult to access the light fixtures for maintenance. In the PLG design, remote mounted drivers were incorporated at ground level to reduce the chance of needing to bring a man lift onto the playing surface. On top of that, the SBX Luminaire kit is rated at over 100,000 hrs at the ambient conditions of the field. Finally, PLG provided a 5 year comprehensive warranty in addition to the standard 5 year warranty that included all routine and non-routine maintenance work.

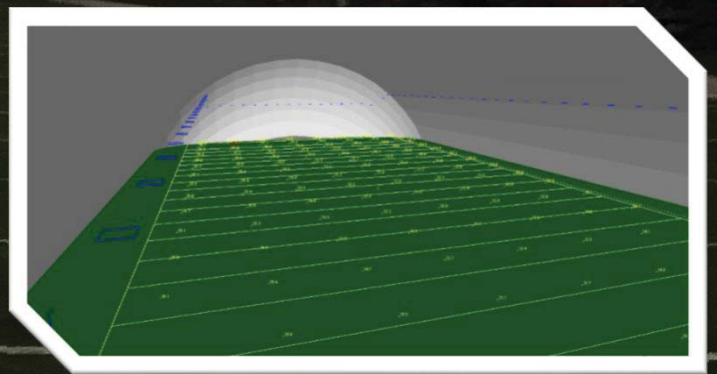


After:



**“With the new lights, the building  
cools quicker!”**

**- Facility Manager**





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## By The Numbers:

Lighting Energy Reduction: \$45,400.00

HVAC Load Reduction (in Tons of Refrigeration): 20.75

Lamp Life: 100,000 hrs

Warranty: 5 Year Comprehensive

Payback Period: 2.31 Years

Percent Project Cost Covered By Rebate: 19%