



## CASE STUDY

# BRACKEN RIDGE BMX FACILITY

**Brisbane City Council (BCC) recently constructed a brand-new BMX bicycle facility at Fitzgibbon. The new facility is one of the largest of its kind in Australia, and caters to a range of riders from differing ages and skill levels.**

Located adjacent to an existing skate park, and close to the Emily Seebohm Aquatic Centre, the facility is part of the council's commitment to creating new lifestyle and leisure opportunities in Brisbane's northern suburbs. 30 additional car spaces were also constructed to help service the increase in demand for the area's leisure facilities.

The council wanted the option to boost the lighting from 100 lux to 200 lux when required. This was achieved using a switching arrangement. The poles could be no more than 10m tall, and no spill light was allowed to enter neighbouring properties. During the design phase, consideration also had to be given to the undulating, uneven surface (inherent of a BMX track) to ensure uniform illumination.

Advanced Lighting Technologies supplied the Cree OSQ High Output LED Area & Flood Light, which has changed the standard for high output lighting; just one OSQ High Output luminaire can replace multiple metal halide fixtures. It's also smaller and lighter than other LED solutions, making it easier to install while minimising wind load requirements.

The results speak for themselves! Uniform illumination with the flexibility to double the lux levels for BMX competitions or other events.

### **BUSINESS**

BRISBANE CITY COUNCIL

### **CUSTOMER**

BRISBANE CITY COUNCIL

### **ELECTRICAL ENGINEER**

BRISBANE CITY COUNCIL

### **LOCATION**

BRISBANE, QLD

### **CHALLENGES**

UNEVEN, UNDULATING COURSE

NO SPILL LIGHT ALLOWED TO ENTER  
NEIGHBOURING PROPERTIES

MAXIMUM POLE HEIGHT OF 10M

VERY SHORT SUPPLY SCHEDULE

### **SOLUTION**

OSQ HIGH OUTPUT SERIES

### **RESULTS**

UNIFORM ILLUMINATION  
ACROSS ENTIRE TRACK

FLEXIBILITY TO LIGHT TO  
100 OR 200 LUX



## CREE OSQ High Output Series

LED AREA & FLOOD LIGHT

The Cree OSQ High Output Series LED Area & Flood Light changes the standard for high output lighting. With high lumen output, one luminaire can replace multiple Metal Halide fixtures. The result is more than 80 percent energy savings at exceptional performance levels. Compared to other LED solutions, its smaller and lighter, making it easier to install while minimizing wind load requirements.

The 5000K version features TrueWhite Technology, which renders true-to-life colours with a CRI score of 90 and optical distributions that are optimized for automotive frontlines, large parking lots and high mast applications.



### CREE OSQ HO

#### FEATURES

MINIMUM 70 CRI (3000K, 4000K; 5700K);  
90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

CREE TRUEWHITE TECHNOLOGY  
AVAILABLE IN 5000K VARIANT

UTILISES NANO OPTIC PRECISION  
DELIVERY GRID™ OPTIC

#### BENEFITS

SUITABLE UPGRADE FOR HID APPLICATIONS

VERSATILE MOUNTING CONFIGURATIONS  
OFFER SIMPLE INSTALLATION

SLIM, LOW-PROFILE DESIGN MINIMIZES WIND  
LOAD REQUIREMENTS

IMPROVED ENERGY AND MAINTENANCE  
SAVINGS

STANDARD 10-YEAR LIMITED WARRANTY

Contact us today  
for more information  
on how we can provide  
a lighting solution to  
fit your needs.