



CASE STUDY

NEWCASTLE BUS INTERCHANGE

The brand-new Newcastle Bus Interchange has been touted as “the final transport link” in the NSW Government’s \$650m ‘Revitalising Newcastle’ program. Around 300 buses a week will utilise the new interchange, connecting commuters with other bus services, coaches, heavy rail and light rail.

Advanced Lighting Technologies supplied the Cree OSQ High Output LED Area & Flood Light as part of this project. The bus interchange was illuminated to Transport NSW’s lighting standards using a mix of direct and indirect lighting techniques, designed to minimise glare for both drivers and commuters.

The luminaires were not to be installed on the ceiling but mounted on the structure’s many columns instead. The target lighting level was 160 lux at night, with consideration for higher lux values in the daytime. Special attention was given to the transition zones, ensuring bus driver’s vision could safely adapt from daylight to artificial light.

LOCATION

NEWCASTLE, NSW

END USER

TRANSPORT NSW

ELECTRICAL ENGINEER

GHD NEWCASTLE

LIGHTING DESIGNER

GHD NEWCASTLE

CHALLENGES

UNIQUE LUMINAIRE MOUNTING POSITION
ACHIEVE REQUIRED LIGHT LEVELS
A MIX OF DIRECT AND INDIRECT
LIGHTING METHODS

SOLUTION

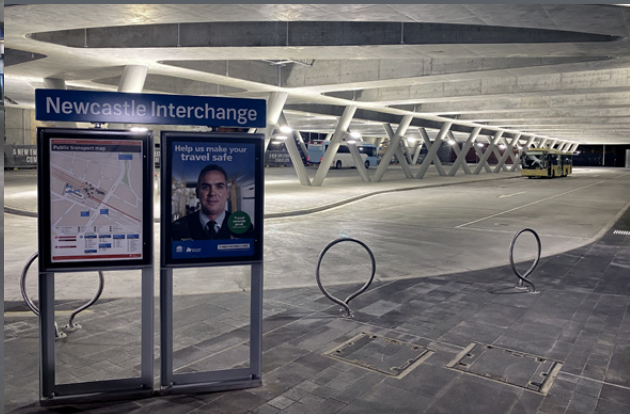
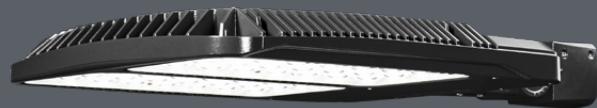
CREE LIGHTING OSQ HIGH OUTPUT SERIES
LED AREA & FLOOD LIGHT

RESULTS

TRANSITION ZONE LIGHTING TO ASSIST
BUS DRIVERS
MINIMAL GLARE TO ENSURE VISUAL COMFORT
FOR ALL USERS

Australia
New Zealand
Singapore

adlt.com.au
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adlt.com.sg

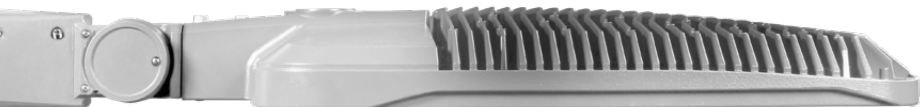


CREE OSQ High Output Series

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.



FEATURES

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

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

CREE TRUEWHITE TECHNOLOGY
AVAILABLE IN 5000K VARIANT

UTILISES NANOOPTIC PRECISION
DELIVERY GRID OPTIC

BENEFITS

SUITABLE UPGRADE FOR HID APPLICATIONS

VERSATILE MOUNTING CONFIGURATIONS
OFFER SIMPLE INSTALLATION

SLIM, LOW-PROFILE DESIGN MINIMISES WIND
LOAD REQUIREMENTS

IMPROVED ENERGY AND MAINTENANCE
SAVINGS

STANDARD 10-YEAR LIMITED WARRANTY

APPLICATIONS

COUNCIL & GOVERNMENT

SPORTS & LEISURE - OUTDOOR

CAR DEALERSHIPS

OUTDOOR AREA

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