

Increased Safety and Sustainability with LEDs



Location: Warren County, VA
Details: RSW Regional Jail
Architect: Moseley Architects
Photo supplied by Chris Cunningham Photography

“Specifying these state-of-the-art LED fixtures meets the project’s sustainability objectives and provides an excellent solution to reduce energy consumption and costs, and without compromising security.”

– Carrie Henaghan, RSW Project Manager, Moseley Architects

Project Summary

Challenge: Selection of lighting to meet security, safety and supervision levels and sustainability goals.

Solution: Mighty Mac™ 50W, 4000K ceiling-mount LED fixtures with a separately-switched night light.

Benefit: Reduced cost and energy consumption without compromising security.

Mighty Mac™ LED Luminaires in Cells Safeguards Staff and Inmates, Helps RSW Achieve Sustainability Goals RSW Regional Jail, Warren County, VA



The \$56 million Rappahannock Shenandoah Warren (RSW) Regional Jail was completed in 2014, with initial capacity for 375 inmates.

Because inmates are unsupervised for the majority of their in-cell time, cells represent a very challenging lighting environment -- something in which Kenall excels.

While the primary purpose of the jail is to safeguard the community and those housed and working within the facilities, sustainability goals and strategies were integrated into its policy and planning initiatives from the outset.

"The lighting must withstand inmate abuse, be reliable, easy to maintain, repair and operate, and be cost-effective over the useful life of the facility," says Carrie Henaghan, RSW project manager, Moseley Architects.

To meet this all the necessary criteria, cells and minimum-security dormitory rooms were equipped with a total of 257 Kenall's Mighty Mac™ 50-watt, 4000K ceiling mount LED fixtures. Each include a separately switched night light, combining energy efficiency with reduced maintenance costs.

The light levels of the five watt LED night light are switched on by the officers at night to allow the inmates to sleep with lower light levels. This adjustment minimizes vandalism by inmates agitated by excessive brightness when they are trying to sleep.

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The power tray can easily be removed and replaced with a spare assembly, reducing the amount of time spent in the cell. Should a repair become necessary, it can be completed back in the maintenance shop rather than in the cell.

RSW Regional Jail benefits 24 hours per day with:

- Reduced energy consumption and cost
- Dimmable lighting for safer nighttime bed checks
- Easier, safer lighting maintenance with reduced time and cost
- Safety of inmates, staff, visitors and administration



The Mighty Mac luminaire is a safer lighting option that provides cost- and energy-savings.

- Named 2014 Institutional Facility of the Year by the Greater Virginia Green Building Council
- Silver LEED Certified

Mighty Mac features:

- One-piece die-formed prime grade material
- Corners continuously seam welded and smooth with no post grinding
- Stake and welded external piano hinge
- Fully recessed fasteners
- Irretrievable blade traps
- Impact resistant lensing material and thicknesses
- Tamper-resistant screwdriver for easy maintenance of the power tray

For more information, please visit us on the web at www.kenall.com



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