Prescription for Lighting Efficiencies: Cree LED Lighting
Prognosis: Bright
The project involved a total of 325 fixtures: Cree® IG Series pendant-mount LED luminaires throughout the parking garage, OSQ Series area lighting on the roof parking deck and LS4™ surface ambient fixtures with Cree TrueWhite® Technology in the stairwells.

Properly lighting parking garages is a challenge, and the Cree IG Series was the clear solution. These LED luminaires feature Cree’s WaveMax™ Technology, which offers low-glare illumination with high energy efficiency and rapid payback – two and a half years for this project.

Cooper calls the OSQ™ LED area luminaires on the upper level the most impressive lights he’s ever seen. “We previously had 1000 watt lights up there,” he explains, “and we had dark corners and shadows. Now, it could be two in the morning, and you can see anything in any area up there. The dissipation of the light is excellent. The color is great. And you can look up towards the light and it’s not going to blind you. “It’s a great improvement to that top deck.”

And the LS Series, Cooper says, brightens up the stairwells significantly.

“I like the IG Series. It puts out extremely nice light. There’s no globe that’s going to heat up and go bad.”

Chip Cooper
Project Manager and Master Electrician,
Reston Hospital Center
The OSQ™ luminaire is the most impressive light I’ve seen. The color is great. You can look up towards the light and it’s not blinding you.”

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Benefits
Overall, Cooper attests, “We’ve got a sharper, crisper looking light.”

He particularly likes the fact that the Cree® LED lighting can be programmed from full brightness down to 10 percent. The lighting is also motion controlled utilizing Cree’s PML option that allows the luminaires to provide desired light levels when the space is occupied, but also allows the luminaires to dramatically reduce energy consumption when spaces are unoccupied.”

The IG Series also provides enhanced security in the garage, in that there’s no longer glare around the wall-mounted cameras and they offer improved visibility when officers are patrolling.

“Theyir input has been positive,” Cooper says of the security team. “They like it. They claim that no matter where they are, once they get within 30 feet of a light, it comes up to full brightness at night, in all areas.”

Cooper further reports that the implementation of the Cree fixtures “was a very smooth operation.”

Reston Hospital Center anticipates an 81 percent reduction in energy consumption, for $60,455 in annual energy savings, plus the savings on maintenance. And in going all-LED, the hospital received a rebate from Dominion Virginia Power.

The Cree LED lighting is warranted for 10 years. Given that Cooper hopes to retire before then, he figures his garage lighting woes are resolved forever.
Cree® LED Lighting Used

- IG Series Parking Garage with Cree WaveMax™ Technology
- OSQ Series Area
- LS Series Surface Ambient with Cree TrueWhite® Technology

Participants

End User: Reston Hospital Center
Distributor: W. W. Grainger, Inc.

Visit lighting.cree.com or contact a Cree lighting representative to learn more.