

university dorms transformed



A Massachusetts University provides brighter living conditions while reducing energy consumption
RemPhos LEDCR® powered LED drum fixtures replace old fluorescent lamp fixtures

THE SITUATION

The student housing complex at **Clark University of Worcester, Massachusetts** was poorly lit and horribly inefficient.

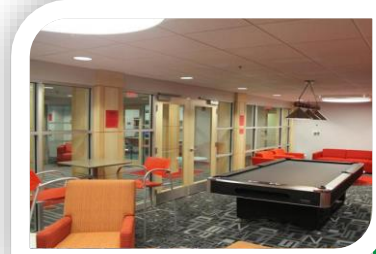
Clark University corridors and dorm rooms were lit by Circline or PL fluorescent lamps inside of old yellowed drums. Light levels were below standards and many fixtures were either non-functioning or suffering from flashing bulbs and humming ballasts. Expensive and labor intensive ballast failures were a constant occurrence. Often students would bring in their own 60 or 100W incandescent desk lamps since the University provided lighting just did not provide enough light.

The University knew that they needed to upgrade the lighting, and the question was which manufacturer would provide the best quality fixture at the right pricing.

THE SOLUTION

RemPhos Technologies recommended illuminating all dorm rooms and corridors of Clark's student housing with the RemPhos **LEDCR® powered LED Drum Fixtures**. RemPhos' LED fixture easily and quickly replaces the existing fixture with no ceiling pant touchups required. Energy consumption dropped to 12W per fixture with the new LED system (from 26-60W). Light output levels increased 60% and maintenance will no longer be an issue with a >50,000hr life span. Since the LEDCR® has UL1598C and Energy Star® certifications, there is no concern over safety or overheating.

Following the installation of over 1500 **RemPhos LED® Drums**, Clark reduced its annual electricity use by 290,000 kWhs – nearly a \$45,000 lighting cost savings based on a \$0.12 kWh rate and 12 hours of operation a day. Students living in the on-campus housing of this Massachusetts University now have brighter, more comfortable lighting.



OPERATING IMPACT

- Estimated \$45,000 annual savings vs. traditional light sources
- Major maintenance reduction (100s fewer ballasts replaced/yr)



BUSINESS IMPACT

- Residents now have brighter and more even illumination
- Maintenance department no longer has to deal with constant failing lamps and ballasts