Hospital Finds Kenall’s MedMaster M4 LED Luminaires a Perfect Fit for ORs, Cath Labs

Project Summary
The University of Iowa Hospital and Clinics needed new, state-of-the-art lighting for four new operating rooms and two pediatric cardiac catheterization labs.

Challenge: Ceiling-mounted equipment space requirements meant the lighting could not exceed a certain depth and would need to be mounted farther away from the surgical field, without compromising visual acuity. Cleaning and maintenance protocols dictate the need for long intervals between service.

Solution: Kenall’s MedMaster™ M4 LED luminaires with asymmetric distribution in the ORs and Cath labs, SimpleSeal™ CSEDO LED luminaires in the Clean Core area outside the main ORs.

Benefit: High-performing, tightly sealed, easy-to-clean lighting that fits easily into the demanding space limitations and requires less frequent service than linear fluorescent.

"Coordinating the lighting layout with all the ceiling mounted booms, equipment, HVAC diffusers and ductwork was a challenge. I have specified Kenall many times and noticed the exceptional quality. I have never had an issue with them in the field."

– Isaac Stoll, Senior Designer, IMEG
High Performance Luminaires Put Light Exactly Where it’s Needed
University of Iowa Hospital & Clinics OR Suites, Iowa City, Iowa

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The hospital installed a total of 88 MedMaster M4 sealed LED luminaires in the ORs and cath labs, and another 25 SimpleSeal™ CSEO luminaires in the “clean core” area immediately outside the new ORs. The recessed lights “provide consistent, bright lighting throughout the room and are easier to clean, enhancing infection control,”2 according to the hospital’s promotional literature. Both the MedMaster M4 and the SimpleSeal CSEO are designed for pressurized environments and are NSF listed. The MedMaster M4 is IP65 rated, has an antimicrobial finish for infection prevention, and a grounded wireway to protect other equipment from electrical interference. The SimpleSeal is IP66 certified and is the industry’s first luminaire to be certified to the NSF P442 protocol, which requires stringent pressure testing and third party certification3.

These luminaires are built to last and backed by Kenall’s 5 year power system warranty: “The facility will benefit from energy savings, and most of all, ease of maintenance. Electrical facility staff has to go through the procedure of washing and gowning up to replace fluorescent lamps in operating rooms. With the long life of LED, this goes away, saving the maintenance staff precious time,” concluded Stoll.

1"100 Great Hospitals in America,” Becker’s Hospital Review, beckershospitalreview.com
2"Main Operating Room Facility Expansion,” University of Iowa Hospital and Clinics, uihc.org
3NSF P442 certification was not available at the time of this installation. To find out more about this important new standard, visit kenall.com to read our white paper, Competitive Edge, Issue #2.

M4 Features/Benefits:
• 3000K, 3500K, 4000K and 5000K options
• Asymmetric distribution provides ample light to surgical field
• 80 and 90 CRI available
• Universal, one-piece, seam-welded housing accommodates both grid and flange installation
• Smooth exterior doorframe is sealed and gasketed to support infection prevention
• Antimicrobial finish helps reduce the spread of pathogens
• Grounded wireway reduces radiated emissions
• Dual stage power factor correction driver eliminates flicker
• Standard 0-10V dimming
• Serviceable LED array
• Diffused high-efficiency lens for reduced glare and uniformity

CSEO Features/Benefits:
• Recessed ceiling mount; grid or flange
• Suitable for universal installation into 1.0” and 1.5” grid or flange (drywall) ceilings
• One piece overlapping door provides air-tight integrity of luminaire
• High-output, high-CRI LED lamp sources for accurate color rendition and lighting performance
• Diffused high-efficiency lens for reduced glare
• Optional NSF P442 protocol assures a sealed, clean environment

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

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