

# IES Award Winning! OPTeLED™

# MOTORIZED LED MEDICAL LIGHTING





OPTeCOLOR
ULTRA-HIGH 95+ CRI
COOL BEAM
TECHNOLOGY



FULLY RECESSED
LED MOTORIZED
PATIENT
LIGHTING
WITH WALL
CONTROL FOR
DIRECTION AND
INTENSITY OF
LIGHT

WWW.KIRLINLIGHTING.COM 3401 E. JEFFERSON AVE. DETROIT, MI 48207-4232





# **OPTeLED**<sup>TM</sup>

MRR-12640 (Two Light System)
MRR-12642 (One Light System)





Up to 9200 Footcandles

Ultra High 95+ Color
Rendering

OPTeColor™ & Cool Beam

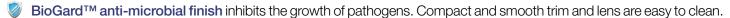
High Angle Illumination
(Up to 50°)

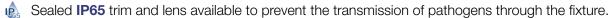
60,000 Hour Life (L70)



#### LIGHT FIXTURES

**Fully recessed** fixtures with **architectural trims** are unobtrusive, providing a **safe environment** for clinicians and patients, and inconspicuous, creating a **home-like atmosphere**.





All components are **modular and fully serviceable** through the aperture.



#### I FDs



OPTeColor™ LEDs deliver **95+ CRI and high R9** for accurate tissue color rendering (see following page). Cool beam **does not project heat** toward the room, assuring patient and practitioner comfort and avoiding tissue desiccation.

**Precision optics** deliver optimal contrast ratio, maximize luminaire efficiency and beam control while minimizing glare for clinician and patient.

**60,000 hours long life (L70)** dramatically **reduces maintenance frequency and cost** compared to traditional sources with typical life of 2000 hours.

Redundancy of components ensures at least 50% illumination at all times.

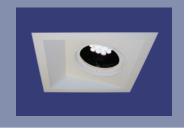
#### WALL CONTROL

Joystick permits **one-step**, **quick and precise aiming** of each lighthead wherever desired.

Independent control of each lighthead permits adjustable pattern of superimposed beams or dual task illumination.

Intensity of light is **instantaneously adjusted from 10-100%** with convenient slide dimmer.





#### ANGLE OF ILLUMINATION

Each lighthead rotates 360° and tilts up to 35° permitting **full coverage of the patient**. Two light system (MRR-12640) provides higher light levels and **minimizes shadowing**. Optional 15° bottom pan (Option -81) allows lighthead to be **tilted up to 50° for high angle illumination** or to accommodate fixture location further from the bed.

# Color Rendering and R9





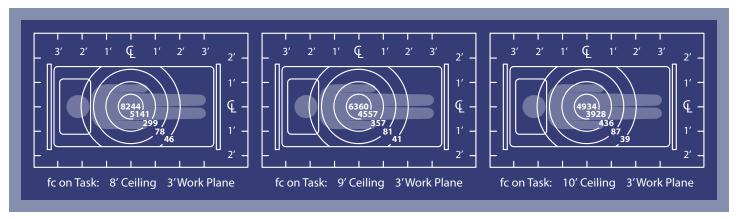
Low CRI & Low R9

High CRI & High R9

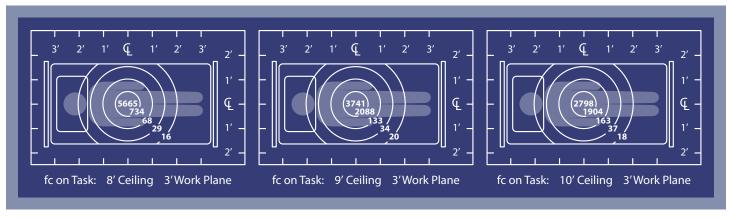
High CRI is only part of the color rendering story. CRI measures a light source's ability to render pastel colors excluding important saturated colors like red. High R9 values are critical in healthcare applications. Kirlin OPTeColor™ LEDs deliver both high CRI and high R9 lighting for accurate patient diagnosis and treatment.

## Performance

Footcandle Distribution Data - MRR-12640 (Two Light System) 4' Spacing



Footcandle Distribution Data - MRR-12642 (One Light System)



For more information, including Specification Sheets and Owner's Manuals, please visit www.kirlinlighting.com or call your local Kirlin Sales Representative.















# **Applications**

## ICU / CCU / PATIENT ROOM / ED / CATH LAB



Children's Hospital Colorado Denver, CO

#### NICU

Motorized Patient Lighting by Kirlin

#### MRR-12640 Two Light System

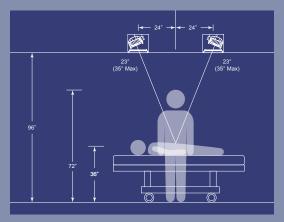
Up to 8244 fc on the Task from 64"

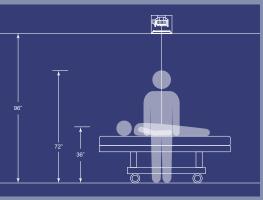
9" Diameter Beam on Patient

#### MRR-12642 **One Light System**

Up to 5665 fc on the Task from 60"

8" Diameter Beam on Patient

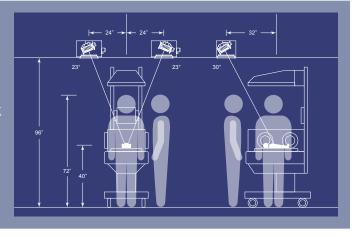




#### MRR-12640 **Two Light System**

Up to 9275 fc on the Task from 60"

8" Diameter Beam on Patient



## Ann Arhor M otions

University of Michigan C.S. Mott Children's Hospital

- -58 277/120 volt stepdown transformer for 277 volt line input, prewired into fixture; with 120 volt thermal protector.
- -87 Custom length (> 35 feet) plenum rated wall control cables (3). Specify length.
- -97 For other input supply voltages, consult
- 347/120 volt stepdown transformer for -98 347 volt line input, prewired into fixture; with 120 volt thermal protector.

#### **OPTeColor™ - Consult Factory**

- -30K 3000°K instead of 3500°K. 95+ CRI.
- -41K 4100°K instead of 3500°K. 95+ CRI.
- -50K 5000°K instead of 3500°K. 95+ CRI.

#### **Trim and Other**

- -32 White oversize trim ring. Specify O.D.
- 15° bottom pan achieves 50° high angle illumination.
- -94 Custom color self-flanged flare trim instead. Consult factory.
- -99 Special modification. Consult factory.
- IP65 rated trim and lens.
  - -SE Fixture modified for seismic anchorage (by others). Meets CA, Uniform & International Building Codes. Consult factory.

### THE KIRLIN COMPANY

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