

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

# Lighting for Patient Spaces

## 7" LED Exam Light

Up to 60,000 Hour Rated Life • Antimicrobial Trim • Wet Location  
LM-80 Qualified • LM-79 Certified Photometry

### Specifications

#### Delivered System Performance\*

- Lumen Series: **Must Specify**
  - 5000L (55W)
  - 3500L (42W)
- Distribution: NFL standard; optional: -MFL
- Color temperature: 3500°K standard; optional: -27K, -30K or -41K
- CRI: 80+ standard; optional: -HC (90+)
- 60,000 Hour Rated Life (L70)
- Fully sustainable: removable for servicing

#### Thermal Protection: SPECIFY VOLTAGE

- Thermal protector for insulation detection per UL/NEC; must specify input voltage

#### Thermal Management System

- Aluminum heat sink and components for cool operation, long life, and low maintenance

#### LED Driver - INTERNAL

- Indoor/Outdoor: -30°C to 60°C (-22°F to 140°F)
- 0-10V CCR dimming standard (100-10%)
- Voltage Options: **Must Specify**
  - 120: -120V (50-60Hz); load insensitive
  - 277: -277V (50-60Hz); load insensitive

#### Trim and Lens Assembly

- Rustproof 100% aluminum grooveless, smooth, self-flanged trim
- Kirlin BioGard™ antimicrobial white finish continuously inhibits growth of bacteria on the coating of the trim
- Regressed tempered microprismatic glass lens

#### Acrylic Enameled Aluminum Housing

- Rustproof: exceeds 1000 hour ASTM 5% salt spray test; all components fully sustainable
- Shallow depth for restricted plenums
- Cool operation extends component life
- Modular design; visible and fully serviceable through aperture
- Built-in plaster flange

#### Outlet Box (Galvanized)

- UL listed J-box with insulated removable cover; prewired 14 GA (NEC) with 1/2" and 3/4" knockouts

#### Installation & Hardware

- Indoor/outdoor in ceilings up to 1 1/8" thick
- Compatible with fire rated enclosures (by others)

## MRR-07500



- 27" galvanized hanger bars & adjusting brackets (2) supplied

#### UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings
- Through-branch conductors (4 #12 AWG 90°C)

#### IEC & FCC Compliance

- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment
- FCC Part 15 certified for EMI/RFI emissions

#### FIVE YEAR Limited Warranty

- Complete standard fixture



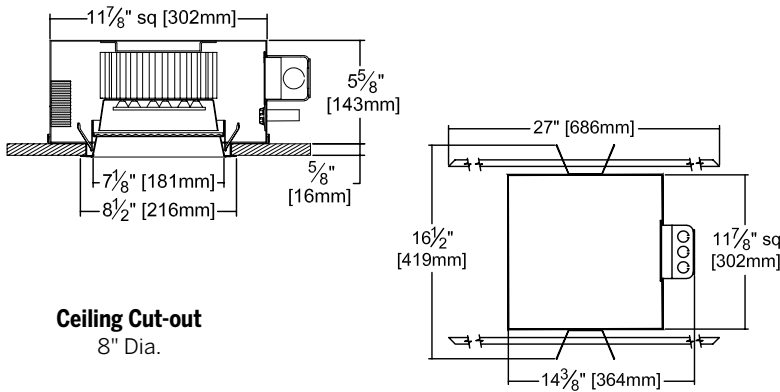
## Options and Ordering Configuration

(Example: MRR-07500-3500L-120-41K-MFL)

Must Specify			Optional					
Model	Lumens	Volts	CCT & CRI	Beam	Driver Options	Emergency	Trim & Lens Options	Other Options
MRR-07500								
	-5000L -3500L	-120 -277 -97: Other voltage; consult factory	(Blank): 35K, 80+ CRI  <b>80+ CRI</b> -27K: 2700°K -30K: 3000°K -35K: 3500°K -41K: 4000°K -50K: 5000°K <b>90+ CRI</b> -27K-HC: 2700°K -30K-HC: 3000°K -35K-HC: 3500°K -41K-HC: 4000°K -50K-HC: 5000°K	(Blank): NFL  -MFL	(Blank): Standard 0-10V CCR 10% dim  -D1: 0-10V 1.0% dim -D2: 0-10V 0.1% dim -D3: DALI 1.0% dim -D4: DALI 100-0.1% dim -D5: DMX512A 0.1% dim -ECO: For use with Lutron EcoSystem controls; dims to 1% or consult factory	(Blank): None  -E1: Remote emergency inverter for 50% of rated lumens; 90+ minutes; 60Hz input only; N/A for option -FS -EM: Internal emergency battery pack; Delivers 500 lumens; 90+ minutes; (CEC Compliant) -ERH: Remote emergency battery pack; delivers 1000 lumens; 90+ minutes (CEC Compliant)	(Blank): White trim, regressed prismatic lens  <b>Trim Finishes</b> -BKBG: BioGard™ antimicrobial black -94BG: BioGard™ antimicrobial custom color finish <b>Other Trim Features</b> -32: White trim extender; specify OD -45: Gasket between trim flange and ceiling -46: Gasket between trim and lens	(Blank): None  <b>Mounting</b> -79: Extension collar; ceilings up to 2" thick  <b>Other Options</b> -99: Special modification; consult factory -AWN: Athena Wireless Node; N/A for Dimming Options D5, ECO -FS: Fused primary; One per fixture; not for use with Option -E1  <b>*Note:</b> For other integrated control solutions, such as nLight, contact factory

\*See note next page

## Dimensions



## Infection Control Levels

Level	Option	Infection Protection
1	Standard	BioGuard™

## Footcandle Distribution Data

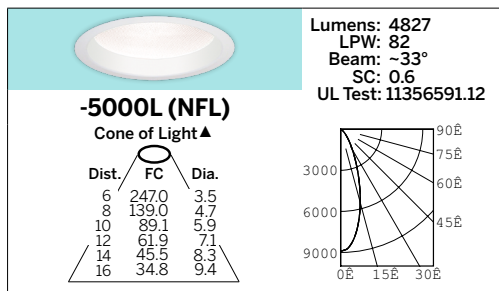
### Notes:

- All lighting levels are expressed in average footcandles, with distances expressed in feet, as measured at the work plane (3'6")
- The work plane (3'6") is defined as: examination bed height, plus patient body depth

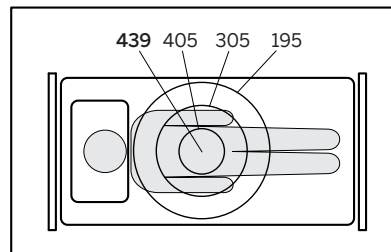
## Photometry - Installed Complete Fixture

Photometry from UL Verification Services, Allentown, PA

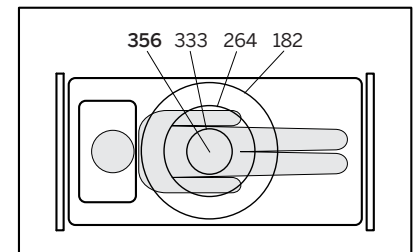
LM-79 IESNA Certified Photometry from Independent Lab



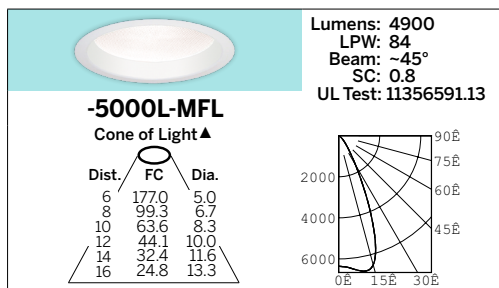
Total System Watts 58.8



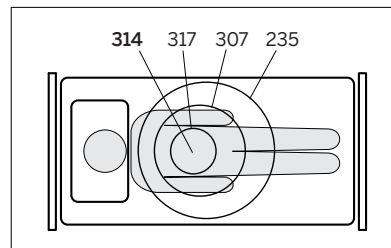
fc on Task: 8' Ceiling 3'6" Work Plane



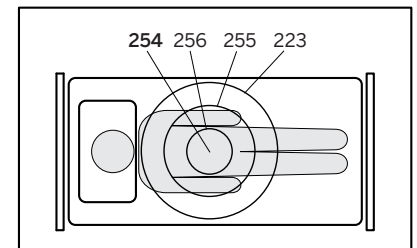
fc on Task: 8'6" Ceiling 3'6" Work Plane



Total System Watts 58.6



fc on Task: 8' Ceiling 3'6" Work Plane



fc on Task: 8'6" Ceiling 3'6" Work Plane

\*LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

See following page for -3500L performance

▲ Cone of Light Key  
Dia. (in ft.) shown is where FC value is half the FC at nadir.  
Dist. Distance (Ft.) from fixture  
FC Footcandles at nadir (0°)  
Dia. Circle of light at 50% of FC

LIMITED WARRANTY: KIRLIN EXCEPT AS SPECIFIED IN THE WARRANTY STATEMENT, ALL OTHERS ARE WITHOUT WARRANTY. THE PURCHASE PRICE OR REPRESENTATION OF PRODUCT PURCHASE AND DELIVERY IS LIMITED TO THE OFFICE OF MANUFACTURE WITHIN THE YEARS OF ORIGINAL SUPPLY. LIABILITY OF MANUFACTURE IS LIMITED TO THE FOREGOING AND MANUFACTURE SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES, DIRECT OR INDIRECT, SUSTAINED OR SUFFERED BY PURCHASER OR ANY PERSON. THIS WARRANTY IS APPLIED TO THE BUYER IN PLACE OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. SELLER DOES NOT WARRANT AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, NOR WILL ANY ORAL STATEMENT CONSTITUTE A WARRANTY OR AMEND THIS SPECIFIC WARRANTY. ABNORMAL USE, ABUSE OF THE FIXTURE, IMPROPER INSTALLATION, OR REPAIR OR MODIFICATION OF THE FIXTURE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE MANUFACTURER WILL RENDER THE WARRANTY VOID.

PATENT SPACES  
NOVEMBER 2024

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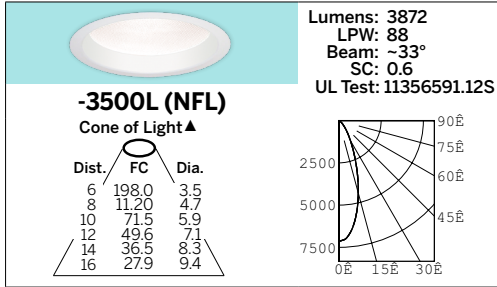
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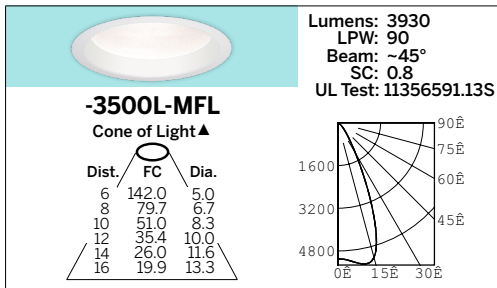
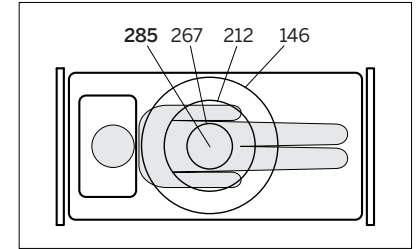
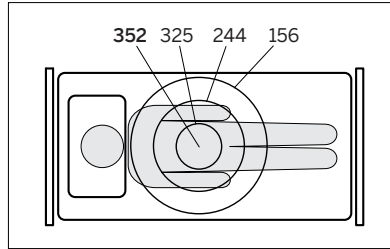
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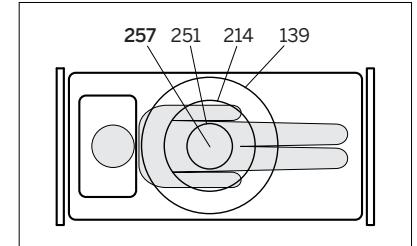
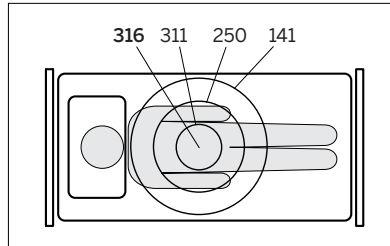
LM-79 IESNA Certified Photometry from Independent Lab



Total System Watts 44.0



Total System Watts 43.9



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Dist. Distance (Ft.) from fixture  
Dia. (in ft.) shown is where FC value is half the FC at nadir.  
FC Footcandles at nadir (0°)  
Dia. Circle of light at 50% of FC

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALL TO N.E.C. IN NORMAL USE. Manufacturer at his option will replace or repair, such fixture or refund the purchase price, at his option, if the fixture is found to be defective in workmanship or material. This warranty is void if the fixture is used for any purpose other than that intended, or if it is modified, repaired, or altered in any way. This warranty does not cover damage to the fixture caused by accident, abuse, misuse, or improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer. Seller does not warrant, as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer will render the warranty void. PATIENT SPACES NOVEMBER 2024