

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

Lighting for Patient Spaces

Psychiatric 8" LED Exam Light

Up to 60,000 Hour Life • ISO 5/Class 100 Clean Room (-SH)
Antimicrobial Trim • 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 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

- Vandal resistant smooth seamless tapered aluminum self-flanged flare trim
- Kirlin BioGard™ antimicrobial white finish continuously inhibits growth of bacteria on the coating of the trim
- Flush center pin tamperproof hex screws and captive nuts secure trim to housing
- Regressed tempered microprismatic above 1/8" clear flat polycarbonate lens
- Continuous ring secures lenses to trim
- Tamperproof tool included

IP65 Sealed & Gasketed Trim

- Liquid silicone seals between trim and lens
- O-rings seal stainless fasteners to trim
- Meets ASTM E283 restricted airflow of 2CFM

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

MRV-08540



"Sealed & Gasketed"
Impact Resistant Lens & Trim

Installation & Hardware

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

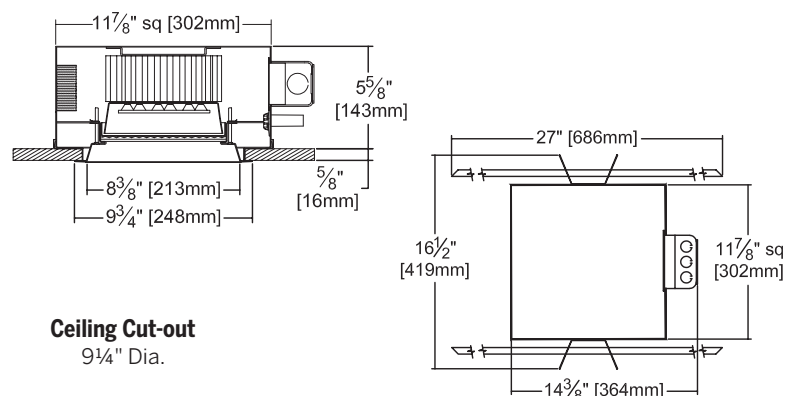
(Example: MRV-08540-5000L-120-30K-MFL)



Must Specify			Optional					
Model	Lumens	Volts	CCT & CRI	Beam	Driver Options	Emergency	Trim & Lens Options	Other Options
MRV-08540								
	-5000L -3500L	-120 -277 -97: Other voltage; consult factory	(Blank): 35K, 80+ CRI 80+ CRI -27K: 2700°K -30K: 3000°K -35K: 3500°K -41K: 4100°K -50K: 5000°K 90+ CRI -27K-HC: 2700°K -30K-HC: 3000°K -35K-HC: 3500°K -41K-HC: 4100°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 -EI: 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 tamper-resistant trim, dual lens	(Blank): None -99: Special modification; consult factory -FS: Fused primary; One per fixture; not for use with option -EI -SH: Sealed housing and J-box; provides Clean-room Rated luminaire (ISO 5 Class 100)

*See note next page

Dimensions



Infection Control Levels

Level	Option	Patient Safety	Infection Protection
2+	Standard	VR Vandal Resistant	BioGard™ IP65
3+	-SH	VR Vandal Resistant	BioGard™ IP65 ISO 5/ Class 100

Footcandle Distribution Data

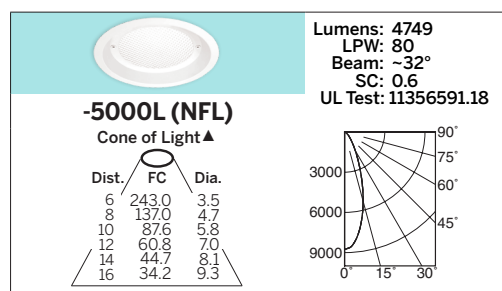
Notes:

- 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

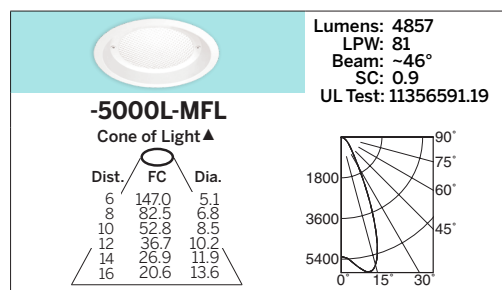
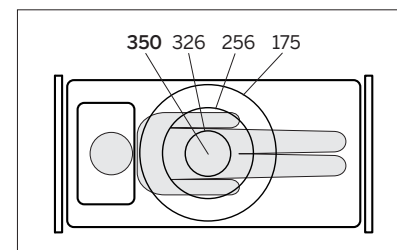
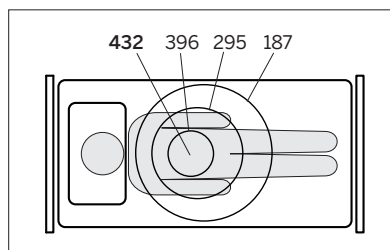
Photometry - Installed Complete Fixture

Photometry from UL Verification Services, Allentown, PA

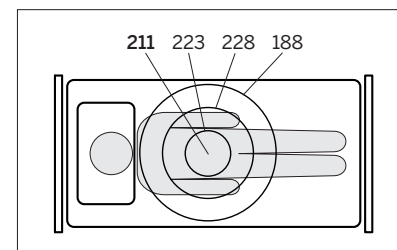
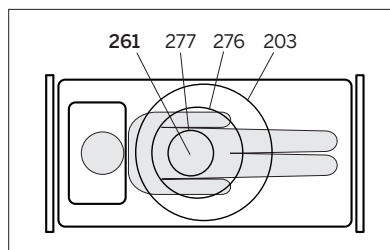
LM-79 IESNA Certified Photometry from Independent Lab



Total System Watts 59.5



Total System Watts 59.8



*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 LIGHTING FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR FIVE YEARS FROM DATE OF PURCHASE. INSTALLATION, IN NORMAL USE, MANUFACTURER AT HIS OPTION WILL REPAIR, REPLACE OR RETURN THE PURCHASE PRICE ON PRESENTATION OF PROOF OF PURCHASE AND DEFECTIVE FAILURE AT THE OFFICE OF MANUFACTURER WITHIN THE YEARS OF ORIGINAL SHIPMENT. LIABILITY OF MANUFACTURER IS LIMITED TO THE FOREGOING AND MANUFACTURER SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES, DIRECT OR INDIRECT, SUSTAINED OR SUFFERED BY PURCHASER OR ANY PERSON. THIS WARRANTY IS SUPPLIED 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. 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
REV MAR 2023

Footcandle Distribution Data

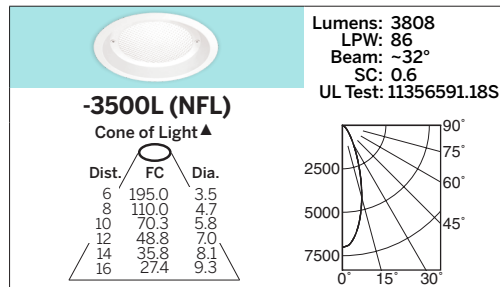
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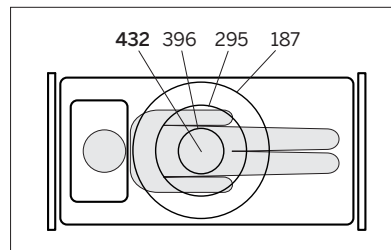
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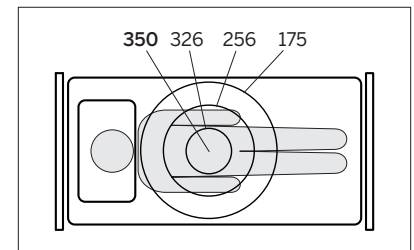
LM-79 IESNA Certified Photometry from Independent Lab



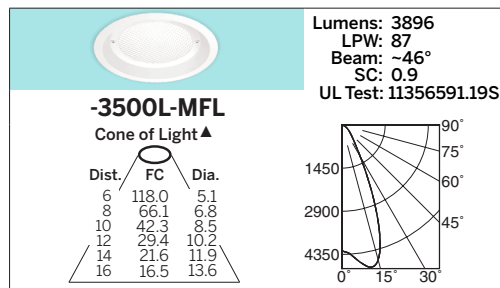
Total System Watts 44.5



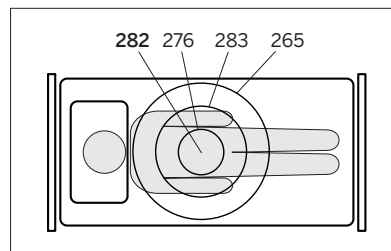
fc on Task: 8' Ceiling 3'6" Work Plane



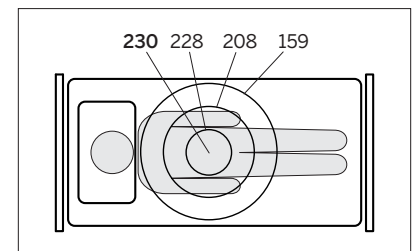
fc on Task: 8'6" Ceiling 3'6" Work Plane



Total System Watts 44.7



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



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

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