CATALOG #		TYPE	
JOB NAME		WATTAGE	VOLTAGE

Lighting for Patient Spaces

MRR-06849

Clean Room 6" Downlight • LED
Type IC • Wet Location • White IP66 Rated Trim
LM-80 Qualified • LM-79 Certified Photometry

Specifications

Delivered System Performance*
- Nominal Lumens: **Must Specify**
  Type IC
  -2500L
- Select trim & beam distribution: see chart
- Select color (CCT): see chart; 80+ CRI standard; Option -HC for 90+ (15% lumen loss)
- 90,000 Hour Rated Life (L70)

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/Lens Assembly
- Smooth white seamless tapered aluminum self-flanged rigid cast trim
- Kirlin BioGard™ antimicrobial white finish continuously inhibits growth of bacteria on the coating of the trim
- High strength prismatic acrylic above .125" clear flat polycarbonate lens. Also see -DA
- Vandal and ligature resistant, see Option -25

IP66 Sealed and Gasketed - Clean Room
- Silicone seal between trim and lens seals lens to trim
- Closed cell gasketing on trim flange seals flange to ceiling
- O-rings on stainless steel fasteners seal fasteners to trim
- ISO 5/Class 100 Sealed Clean Room rated

Acrylic Enameled Aluminum Housing
- Air tight housing and junction box. Meets/ exceeds ASTM E283 restricted airflow (2 CFM max). CCEA Chicago Plenum approved
- Rustproof and corrosion resistant: exceeds 1000 hour ASTM 5% salt spray test; all components fully sustainable
- Shallow depth fits 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 removable cover. Prewired 14 GA (NEC) with ½" and ¾" knockouts

Installation & Hardware
- Recesses indoor/outdoor in ceilings up to 1⅛" thick
- 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
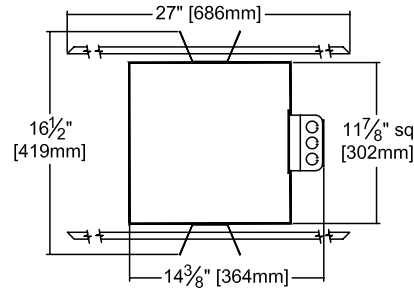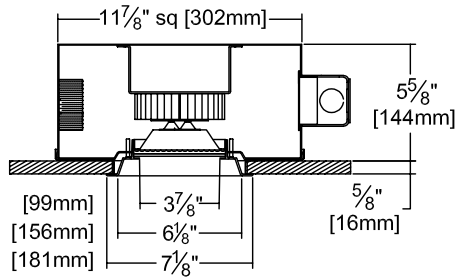- Complete standard fixture

CCEA Approved — Chicago Plenum Approved	ISO 5/CLEANROOM — ISO 5/Class 100 *See Option -SH*	NSF Certified	IP66	USA — Made in the USA	BioGard™	FCC Part 15 Certified	cULus — UL Listed Wet, Damp, Dry

Options and Ordering Configuration

(Example: MRR-06849-2500L-277-30K-NFL-BN-FS)

Must Specify			Optional						
Model	**Lumens**	**Volts**	**CCT & CRI**	**Beam**	**Driver Options**	**Emergency**	**Lens & Trim Options**		**Other Options**
MRR-06849									
	-2500L	**-120** **-277** **-97†:** Other voltage	**(Blank):** 3500K, 80+ CRI	**(Blank):** WFL	**(Blank):** Standard 0-10V CCR 10% dim	**(Blank):** None	**(Blank):** Kirlin BioGard antimicrobial white finish trim with lens above		**(Blank):** None
			80+ CRI	**-NFL**	**-D1:** 0-10V 1.0% dim	**-ERH:** Remote emergency battery pack; delivers 1000 lumens; CEC Compliant; 90+ minutes	**Trim Finishes**		**-99:** Special modification; consult factory
			-27K: 2700°K	**-MFL**	**-D2:** 0-10V 0.1% dim		**-35T:** Silver enamel (complete trim)		**-AWN:** Athena Wireless Node; N/A for Dimming Options -D5, -ECO
			-30K: 3000°K	**-WFL**	**-D3:** DALI 1.0% dim		**-BKBG:** BioGard™ anti-microbial black		
			-35K: 3500°K		**-D4:** DALI 100-0.1% dim		**-94:** Custom color; consult factory		**-FS:** Single in-line fuse
			-41K: 4000°K		**-D5:** DMX512A 0% dim		**-94BG:** BioGard™ anti-microbial custom color finish		***Note:** For other integrated control solutions, such as nLight, contact factory
			-50K: 5000°K		**-ECO:** Digital driver for Lutron EcoSystem controls. Dims to 1% or consult factory		**-BN:** Brushed nickel cast trim instead (non BioGard)		
			90+ CRI				**Other Trim Features**		
			-27K-HC: 2700°K				**-25:** Vandal resistant trim, hardware, and lensing. Provides ligature and vandal resistance. Not available with NSF rating		
			-30K-HC: 3000°K				**-CF:** Custom color filter (Rosco). Specify		
			-35K-HC: 3500°K				**-GE:** Green acrylic filter mounted in lens assembly		
			-41K-HC: 4000°K				**-DA:** Diffuse acrylic lens above poly instead of prismatic acrylic. -WFL only		
			-50K-HC: 5000°K				**-NS:** NSF approved fixture; N/A with -25		
		†Consult factory					**-WA:** White acrylic (flat) diffuser instead; will produce wide flood distribution		

Kirlin Lighting | 3401 E. Jefferson Ave., Detroit, MI 48207-4232, USA | P: 313.259.6400 | www.kirlinlighting.com

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Dimensions

11⁷⁄₈" sq [302mm]

5⁵⁄₈" [144mm]

[99mm]
[156mm]
[181mm]

3⁷⁄₈"
6⅛"
7⅛"

⅝" [16mm]

Ceiling Cut-out
6¾" Dia.

27" [686mm]

16½" [419mm]

11⁷⁄₈" sq [302mm]

14³⁄₈" [364mm]

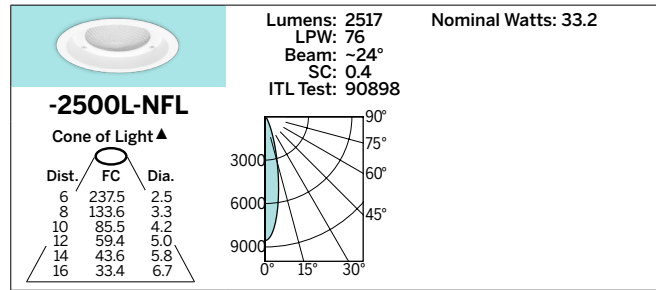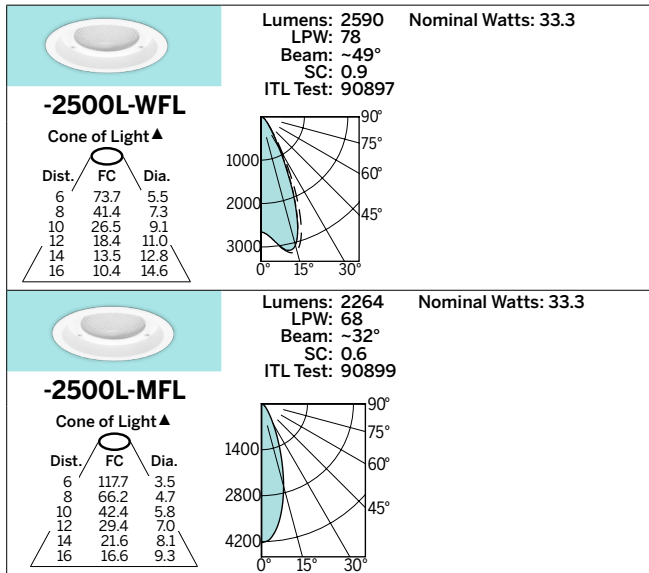## Photometry - Installed Complete Fixture

Photometry from I.T.L., Boulder, CO

LM-79 IESNA Certified Photometry from Independent Lab

-2500L-WFL

Lumens: 2590
LPW: 78
Beam: ~49°
SC: 0.9
ITL Test: 90897

Nominal Watts: 33.3

Cone of Light ▲

Dist.	FC	Dia.
6	73.7	5.5
8	41.4	7.3
10	26.5	9.1
12	18.4	11.0
14	13.5	12.8
16	10.4	14.6

-2500L-NFL

Lumens: 2517
LPW: 76
Beam: ~24°
SC: 0.4
ITL Test: 90898

Nominal Watts: 33.2

Cone of Light ▲

Dist.	FC	Dia.
6	237.5	2.5
8	133.6	3.3
10	85.5	4.2
12	59.4	5.0
14	43.6	5.8
16	33.4	6.7

-2500L-MFL

Lumens: 2264
LPW: 68
Beam: ~32°
SC: 0.6
ITL Test: 90899

Nominal Watts: 33.3

Cone of Light ▲

Dist.	FC	Dia.
6	117.7	3.5
8	66.2	4.7
10	42.4	5.8
12	29.4	7.0
14	21.6	8.1
16	16.6	9.3

Available Infection Control Levels

Level	Option	Infection Protection		
3	Standard	BioGard™	IP65 IP65	ISO 5 / Class 100

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

▲ **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

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