CATALOG #		TYPE	
JOB NAME		WATTAGE	VOLTAGE

SmartLED™ MRI Lighting System

MRL-2

2.5" Recessed Static White Slot Light

Delivers Up To 800 Lumens Per Foot • Asymmetric Distributions Available • LM-80 Qualified • LM-79 Certified

Specifications

Luminaire Features
- MRI-safe, low voltage linear slot light
- Shallow extruded aluminum housing; white finish standard, or see options below
- Non-ferromagnetic construction for accurate MRI scans
- Color temperature: see chart below; CRI: 90+

SmartLED™ MRI Lighting System Required
- Kirlin remote driver modules, cabinet, and RFI filters required for operation
- Components ordered separately, see **MRI-CABNT**
- SmartLED driver modules provide 0-10V dimming to 0.38%

SmartLED™ Emergency Backup System
- **EMI-21220** or **EMI-03120** available for emergency power
- See specification sheet; order separately

Trim/Lens
- ½" flanged trim
- Impact-resistant extruded lens with integral snap and diffusion mounting features, uniform distribution
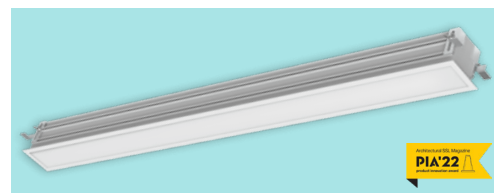
Installation
- Mounts to grid ceiling, or see Option -NCB for installation in a hard ceiling
- Adjustable brackets allow for various ceiling thicknesses
- Requires minimum 18 AWG twisted pair shielded wire from SmartLED MRI driver modules, through filters, to luminaire

UL, C-UL (Canada) Listings
- Damp, dry locations, covered ceilings

FCC Compliance

- SmartLED™ system meets FCC Part 15 certification, see **MRI-CABNT**

Five Year Limited Warranty
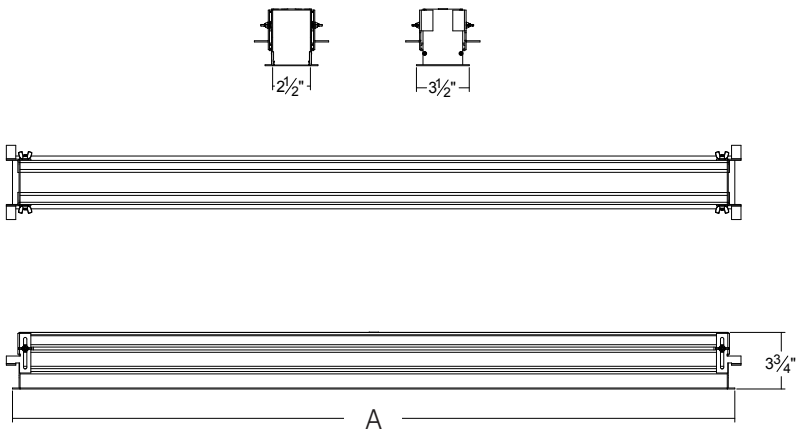- Complete fixture, must be installed with all SmartLED™ components

Made in the USA

BioGard™ *See Option -BG*

UL Listed Damp, Dry

Options and Ordering Configuration

(Example: MRL-02SWM-8FT-DD-35K-BG)

Must Specify				Optional		
Model	**Length**	**Beam**	**CCT & CRI**	**Mounting Options**	**Trim Options**	**Other Options**
MRL-02SWM						
	-2FT **-4FT** **-6FT** **-8FT** **-10FT** **-12FT** *Consult factory for longer lengths*	**-DD:** Direct distribution **-AS:** Asymmetric	**-30K:** 3000°K, 90+ CRI **-35K:** 3500°K, 90+ CRI **-40K:** 4000°K, 90+ CRI	**(Blank):** T-grid ceiling **-NCB:** New construction mounting bracket for hard ceiling installation	**(Blank):** Standard white enamel trim with diffusing lens **Trim Finishes** **-35T:** Silver enamel **-38T:** Black enamel **-BG:** BioGard anti-microbial white **-94:** Custom color; consult factory **Other Trim/Lens Features** **-45:** Gasket between trim & ceiling	**(Blank):** None **-99:** Special modification; consult factory

MRL-2
JANUARY 2024

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

DUE TO CONTINUING PRODUCT IMPROVEMENTS, KIRLIN LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE. VISIT WWW.KIRLINLIGHTING.COM FOR THE MOST CURRENT DATA.

MRL-02SWM

Dimensions

2½" 3½"

3¾"

A

Length of Housing

A = Length of Housing (inches) *For 9⁄16" & 15⁄16" Grid Ceilings*		
-2FT	STANDARD	23 ⁷⁄₈"
	DROP IN	23 ⁷⁄₈"
-4FT	STANDARD	47 ⁷⁄₈"
	DROP IN	47 ⁷⁄₈"
-6FT	STANDARD	71 ⁷⁄₈"
	DROP IN	71 ⁷⁄₈"
-8FT	STANDARD	95 ⁷⁄₈"
	DROP IN	95 ⁷⁄₈"
-10FT	STANDARD	119⁷⁄₈"
	DROP IN	119 ⁷⁄₈"
-12FT	STANDARD	143 ⁷⁄₈"
	DROP IN	143 ⁷⁄₈"

STANDARD = *Installed occupancy side, flange fully visible from below*

DROP IN = *Installed plenum side, flange mostly contained behind grid*
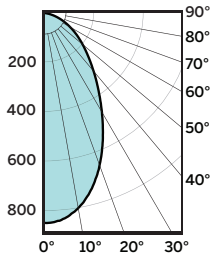
Photometry - Installed Complete Fixture

LM-79 IESNA Certified Photometry from Light Labs, International

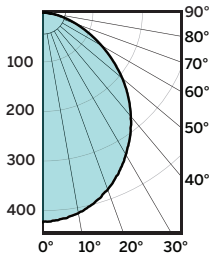*Photometry from L.L.I., Allentown, PA*
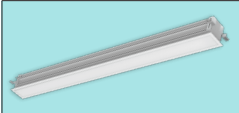
-2FT-DD
Lumens: 1559.2
Lumens/ft: 779.6
Wattage: 16.12
LPW: 96.7
Beam: 65.9°
LLI Test: 1742-001
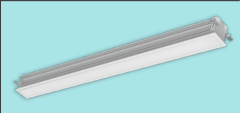
-2FT-AS
Lumens: 1050.2
Lumens/ft: 525.1
Wattage: 16.15
LPW: 63.6
Beam: 100.2°
LLI Test: 2125-002

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SmartLED™ MRI Driver Modules

Fully Digital Controlled Power Source for LED Luminaires

Mounted in Kirlin's **MRI-CABNT**

Individual Fixture Control Driver Configuration

Driver Module	Maximum Capacity	Fixture Load Examples
DVR-0350A	2 foot fixture	• Qty 1: MRL-02SWM-2FT
DVR-0700A	4 foot fixture	• Qty 1: MRL-02SWM-4FT
DVR-1050A	6 foot fixture	• Qty 1: MRL-02SWM-6FT
DVR-1490B	8 foot fixture	• Qty 1: MRL-02SWM-8FT
DVR-1050A and DVR-0788A	10 foot fixture	• Qty 1: MRL-02SWM-10FT
DVR-1400B and DVR-0788A	12 foot fixture	• Qty 1: MRL-02SWM-12FT

Maximum Driver Efficiency Configuration for fixtures 6 feet and under

Driver Module	Maximum Capacity	Fixture Load Examples
DVR-0700A	4 total feet	• Qty 2: MRL-02SWM-2FT
DVR-1050A	6 total feet	• Qty 3: MRL-02SWM-2FT • Qty 1: MRL-02SWM-4FT and Qty 1: MRL-02SWM-2FT
DVR-1400B	8 total feet	• Qty 4: MRL-02SWM-2FT • Qty 1: MRL-02SWM-4FT and Qty 2: MRL-02SWM-2FT • Qty 2: MRL-02SWM-4FT