

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

SmartLED™ MRI Lighting System

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+
- 60,000 Hour Rated Life (L70**)

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%
- The **MRI Configurator** can help determine the necessary components

SmartLED™ Emergency Backup System

- **EMI-21220** or **EMI-03120** available for emergency power

- See specification sheet; order separately

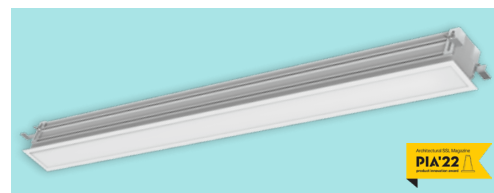
Trim/Lens

- 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

MRL-02SWM



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

Declare.

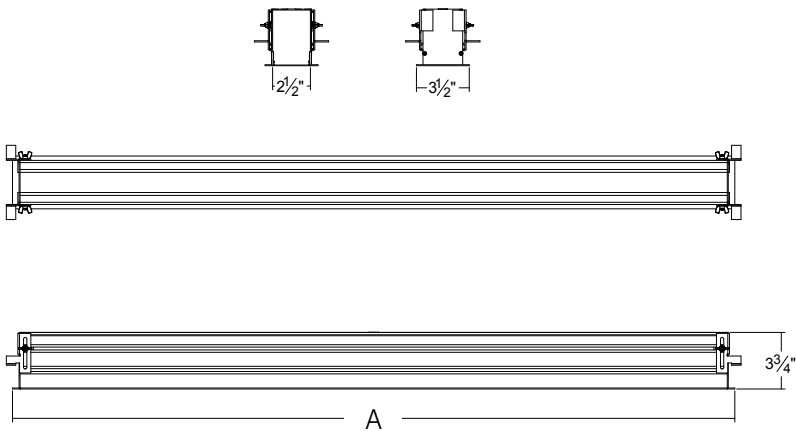


Options and Ordering Configuration

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

Must Specify					Optional	
Model	Length	Beam	CCT & CRI	Mounting	Trim Options	Other Options
MRL-02SWM						
	-2FT -4FT -6FT -8FT -10FT -12FT -14FT -16FT 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	-NCB: New construction mounting bracket for hard ceiling installation -TG: T-grid ceiling mounting	(Blank): Standard white enamel trim with diffusing lens Trim Finishes -35T: Silver enamel -37T: Dark bronze enamel -38T: Black enamel -BG: BioGard™ anti-microbial white -BKBG: BioGard™ anti-microbial black -94: Custom color; consult factory -94BG: BioGard™ anti-microbial custom color finish Other Trim/Lens Features -45: Gasket between trim & ceiling	(Blank): None -99: Special modification; consult factory

Dimensions



Length of Housing

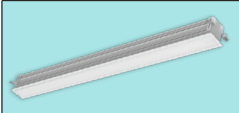
A = Length of Housing (inches) For 9/16" & 15/16" Grid Ceilings		
-2FT	STANDARD	23 7/8"
	DROP IN	23 7/8"
-4FT	STANDARD	47 7/8"
	DROP IN	47 7/8"
-6FT	STANDARD	71 7/8"
	DROP IN	71 7/8"
-8FT	STANDARD	95 7/8"
	DROP IN	95 7/8"
-10FT	STANDARD	119 7/8"
	DROP IN	119 7/8"
-12FT	STANDARD	143 7/8"
	DROP IN	143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

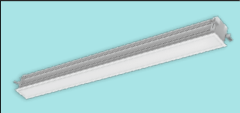
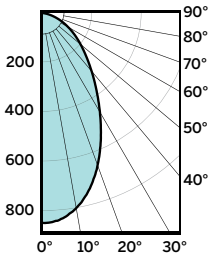
Photometry from L.L.I., Allentown, PA

LM-79 IESNA Certified Photometry from Light Labs, International



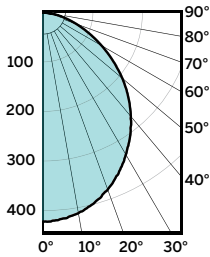
-2FT-DD

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



SmartLED™ MRI Driver Modules

Fully Digital Controlled Power Source for LED Luminaires

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

Drivers wired in parallel. See wiring breakdowns on the following page.



Individual Fixture Control Driver Configuration

Driver Module	Run Length	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-1138B and DVR-0700A	10 foot fixture	• Qty 1: MRL-02SWM-10FT
DVR-1490B and DVR-0700A	12 foot fixture	• Qty 1: MRL-02SWM-12FT
DVR-1490B and DVR-1138B	14 foot fixture	• Qty 1: MRL-02SWM-14FT
Qty 2: DVR-1490B	16 foot fixture	• Qty 1: MRL-02SWM-16FT

Maximum Driver Efficiency Configuration for fixtures 6 feet and under

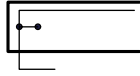
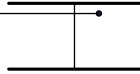
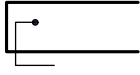
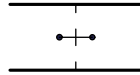
Driver Module	Run Length	Fixture Load Examples
DVR-0700A	4 total feet	• Qty 2: MRL-02SWM-2FT
DVR-1050A	6 total feet	• Qty 3: MRL-02SWM-2FT • Qty 1: MRL-02SWM-4FT and Qty 1: MRL-02SWM-2FT
DVR-1400B	8 total feet	• Qty 4: MRL-02SWM-2FT • Qty 1: MRL-02SWM-4FT and Qty 2: MRL-02SWM-2FT • Qty 2: MRL-02SWM-4FT

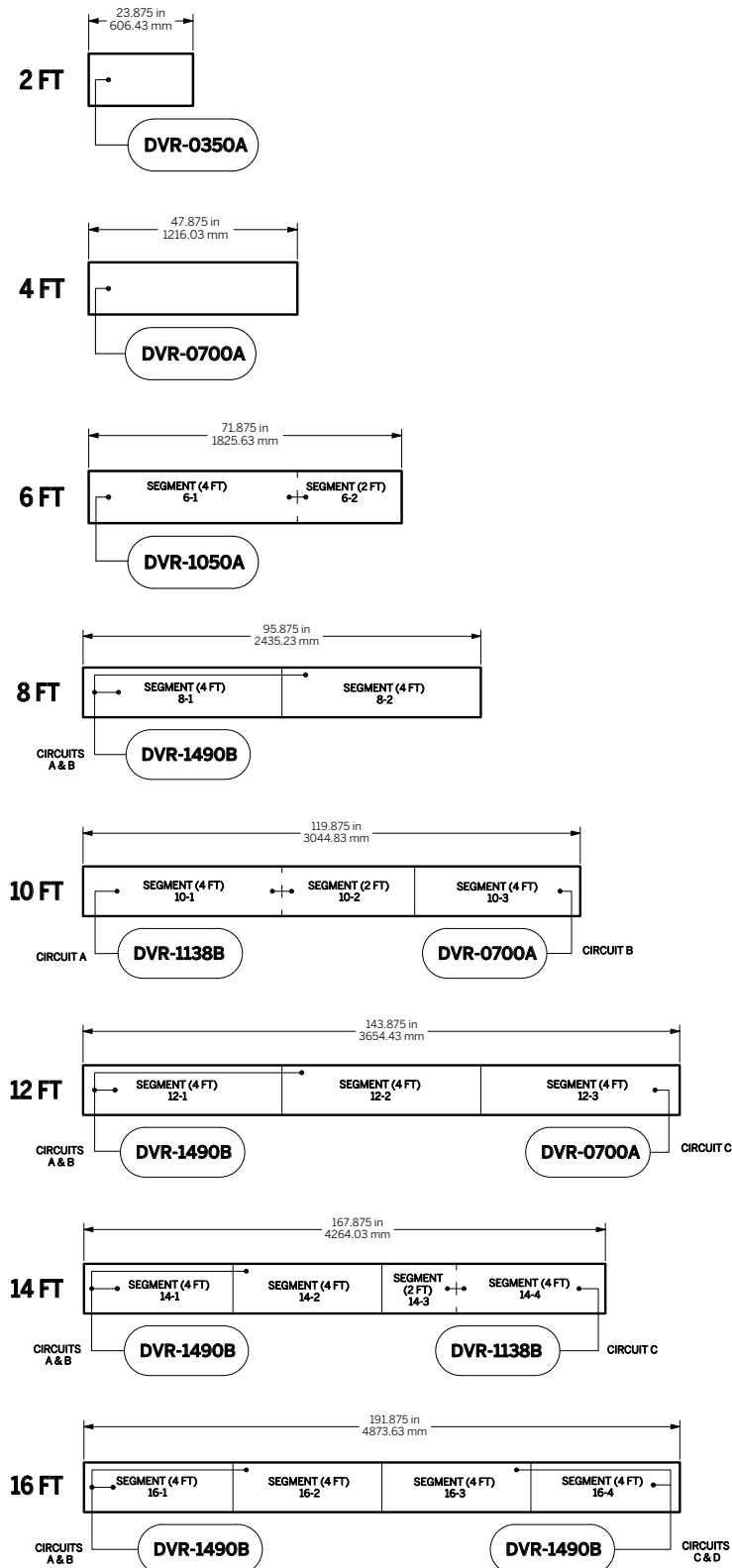
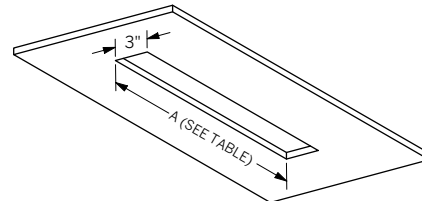
MRL-02SWM Linear Configurations

Not to scale

For run lengths longer than 16 FT, please contact the factory.

Note: MRI Installations require use of SmartLED DVR driver modules and filters. DVR driver modules to be installed in MRI-CABNT per specification requirements.

SYMBOL KEY	
Symbol	Definition
	SINGLE INPUT FROM FILTER CONNECTED TO TWO FIXTURE CIRCUITS
	MAKE CONNECTION FROM INPUT TO LED BOARD AT SEGMENT SEAM
	SINGLE INPUT FROM FILTER CONNECTED TO ONE FIXTURE CIRCUIT
	MAKE CONNECTION BETWEEN LED BOARDS AT SEGMENT SEAM



Cutout Dimensions

Fixture Length	Cutout Length (A)
2 FT	23-1/8"
4 FT	47-1/8"
6 FT	71-1/8"
8 FT	95-1/8"
10 FT	119-1/8"
12 FT	143-1/8"
14 FT	167-1/8"
16 FT	191-1/8"