

MEDMASTER DOWNLIGHT

Luminaires for MRI Applications

MRIDL4 SERIES

PRODUCT FEATURES:

- » 4" sealed, recessed downlight with round or square aperture
- » Regressed or flush lensed trim
- » Designed for MRI applications with non-ferrous construction and RF-free electronics
- » Delivered lumens: 816 - 1,235 lm
- » 1% Dimming via 0-10V control



ROUND



SQUARE

SPECIFICATIONS

HEAT SINK: Die-cast aluminum with external radial fins for natural convection.

ROUGH-IN FRAME: Die-formed aluminum construction. Vertically adjustable collar accommodates ceiling thicknesses up to 1.5", adjustable post-installation. Adjustable mounting bars for installation with wood and metal frame joists and T-grid ceiling systems spaced up to 24" on-center. Junction box accessible post-installation from above and below ceiling. (7) 1/2" knockouts.

TRIM/HOUSING SECTION: IP-rated housing section incorporates the heat sink, LED module, optics and lower trim. Configurable with a Regressed or Flush lens trim that is secured to the Rough-In frame with hidden torsion springs. Closed-cell gasketing at ceiling flange. Anti-microbial finish standard on all exposed painted surfaces. See Trim Ordering Information for available options.

OPTICAL: Round or Square aperture. Diffused tempered-glass upper lens. Available with various reflector distribution patterns and finishes. Flush lens trim options include a clear impact-resistant acrylic lens.

ELECTRICAL: LED array available in multiple CCT and CRI combinations with a maximum 3-step MacAdam variation allowance. See Trim Ordering Information for available options. Luminaire input 24VDC from remote-located 120-277VAC, high-power-factor power supply with EMI filter. Dimming line EMI filter required if utilizing dimming function. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For photometric information, go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty.

INSTALLATION: All power and signal wiring must be in completely grounded aluminum conduit. Light engine and internal driver are replaceable post-installation.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratory for IC and Wet Location installations. IP64 rating per IEC60598. NSF2 Splash/Non-Food Zone.



ORDERING INFORMATION (EX: MRIDL4-R-DCFW-13L-30K9-CSS-RIMR14-24V-DIM1)

TRIM							ROUGH-IN		
Model	Trim Style	Trim Finish	Lamp Power	Lamp Color	Reflector Finish	Flush Lens Type	Rough-In	Input Voltage	Driver Type
		DCFW	13L					24V	DIM1
Model				Lamp Color			Rough-In		
MRIDL4	4" MRI - Round			30K8	3000K / 80 CRI min.		RIMR14	4" MRI Rough-In - Round	
MRIDL4S	4" MRI - Square			30K9	3000K / 90 CRI min.		RIMR14S	4" MRI Rough-In - Square	
Trim Style				35K8	3500K / 80 CRI min.		Input Voltage		
R	Regressed Lens			35K9	3500K / 90 CRI min.		24V	24 Volts	
NF	Flush Lens without Fasteners			40K8	4000K / 80 CRI min.		Driver Type		
				40K9	4000K / 90 CRI min.		DIM1	0-10V Dimming to 1% with Dim-to-Dark Capabilities	
Trim Finish				Reflector Finish					
DCFW	Die-Cast Aluminum in Flat White			FW	Flat White				
				CD	Clear Diffuse				
Lamp Power				CS	Clear Specular (square only)				
13L	13 Watt LED			CSS	Clear Semi-Specular (round only)				
				Flush Lens Type (n/a Regressed Trim Style)					
				T	1/8" Clear High-Impact Acrylic				

ACCESSORIES ORDERED SEPARATELY

- MRIPSF** Remote Power Supply with EMI Filter ([click here for specifications](#))
- MRIFD-1A** Dimming Filter (one per dimming circuit, [click here for specifications](#))

MRI LUMINAIRE CONNECTION PER POWER SUPPLY

Luminaire Number	Lamp Power	Amps/Luminaire	Max Luminaires per MRIPSF-480 Power Supply	Max Luminaires per MRIPSF-240 Power Supply	Max Luminaires per MRIPSF-120 Power Supply
MRIDL4 / MRIDL4S	13L	0.77	26	13	6



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MEDMASTER DOWNLIGHT

Luminaires for MRI Applications

MRIDL4 SERIES

PERFORMANCE

Optic				Lamp Power	Initial Delivered Lumens, By Lamp Color					Efficacy (lm/W)	Input Power (W)	TM-21 Reported L90 (hrs)	TM-21 Reported L70 (hrs)
Aperture	Trim Style	Reflector Finish	Lens Type		30K8	35K8	35K9	40K8	40K9				
Round	R	CD	n/a	13L	1,165	1,165	986	1,212	986	64 - 79	15	>55,000	>55,000
		CSS			1,181	1,181	1,000	1,228	1,000	65 - 80	15	>55,000	>55,000
		FW			1,106	1,106	936	1,151	936	61 - 75	15	>55,000	>55,000
	NF	CD	T		1,107	1,107	937	1,151	937	61 - 75	15	>55,000	>55,000
		CSS			1,122	1,122	950	1,167	950	62 - 76	15	>55,000	>55,000
		FW			1,051	1,051	889	1,093	889	58 - 71	15	>55,000	>55,000
Square	R	CD	n/a	13L	1,015	1,015	859	1,056	859	56 - 69	15	>55,000	>55,000
		CS			1,188	1,188	1,005	1,235	1,005	65 - 80	15	>55,000	>55,000
		FW			1,043	1,043	883	1,085	883	57 - 70	15	>55,000	>55,000
	NF	CD	T		965	965	816	1,003	816	53 - 65	15	>55,000	>55,000
		CS			1,128	1,128	955	1,174	955	62 - 76	15	>55,000	>55,000
		FW			991	991	839	1,031	839	54 - 67	15	>55,000	>55,000

Subject to change without notice. Visit www.kenall.com for ies files and additional information.

Round Aperture Candela Curve	MRIDL4-R-uuuu-13L-40K8-CSS		Distance to illuminated plane (ft)	MRIDL4S-R-uuuu-13L-40K8-CS		Square Aperture Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	77.3	2.4	5'	98.4	3.5	
	53.7	2.9	6'	68.3	4.2	
	39.4	3.4	7'	50.2	4.9	
	30.2	3.9	8'	38.4	5.7	
	23.9	4.4	9'	30.4	6.4	
	19.3	4.9	10'	24.6	7.1	
Spacing Criteria: 0.70	foot-candle multipliers for 30K8(.96), 35K8(.96), 35K9(.81), 40K9(.81)				Spacing Criteria: 0.64	
Beam Angle: 27	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 39	

Round Aperture Candela Curve	MRIDL4-R-uuuu-13L-40K8-CD		Distance to illuminated plane (ft)	MRIDL4S-R-uuuu-13L-40K8-CD		Square Aperture Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	74.2	4.8	5'	59.2	4.8	
	51.5	5.8	6'	41.1	5.8	
	37.9	6.7	7'	30.2	6.8	
	29.0	7.7	8'	23.1	7.7	
	22.9	8.6	9'	18.3	8.7	
	18.6	9.6	10'	14.8	9.7	
Spacing Criteria: 0.71	foot-candle multipliers for 30K8(.96), 35K8(.96), 35K9(.81), 40K9(.81)				Spacing Criteria: 0.84	
Beam Angle: 51	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 52	



MEDMASTER DOWNLIGHT

Luminaires for MRI Applications

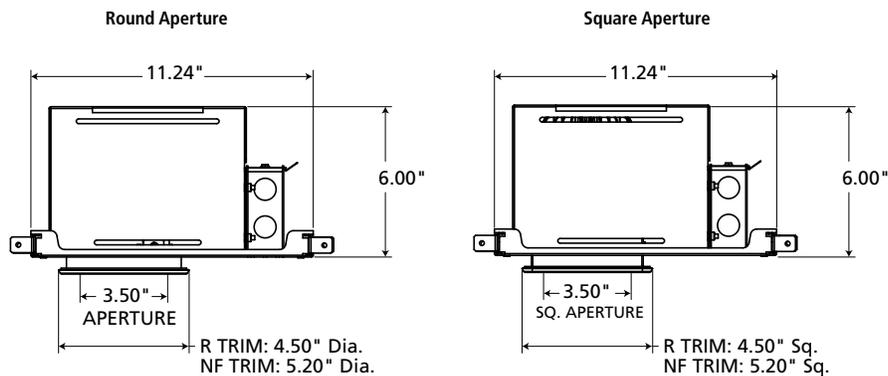
MRIDL4 SERIES

PERFORMANCE

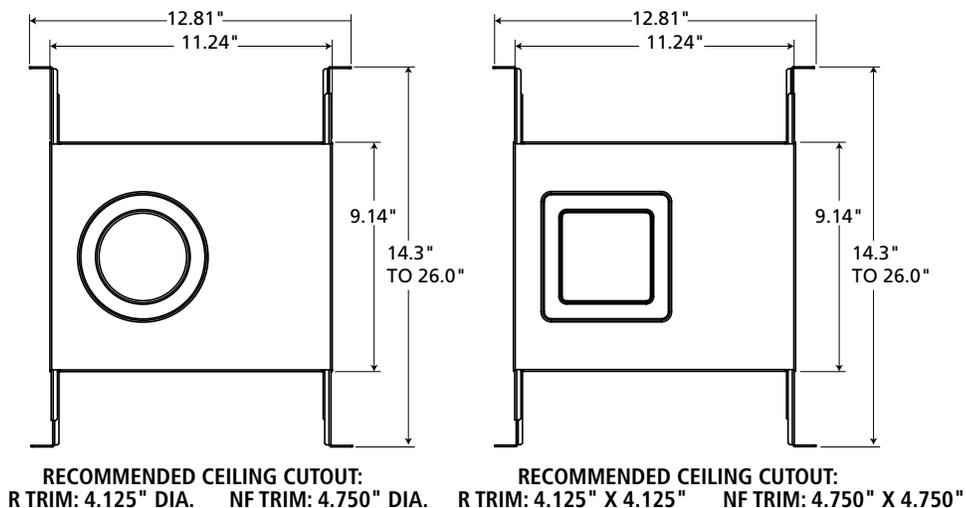
Round Aperture Candela Curve	MRIDL4-R-uuuu-13L-40K8-FW		Distance to illuminated plane (ft)	MRIDL4S-R-uuuu-13L-40K8-FW		Square Aperture Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	52.8	5.3	5'	49.5	4.9	
	36.7	6.3	6'	34.3	5.9	
	27.0	7.4	7'	25.2	6.9	
	20.6	8.4	8'	19.3	7.8	
	16.3	9.5	9'	15.3	8.9	
	13.2	10.5	10'	12.4	9.9	
Spacing Criteria: 0.78	foot-candle multipliers for 30K8(.96), 35K8(.96), 35K9(.81), 40K9(.81)					Spacing Criteria: 0.86
Beam Angle: 56	Beam diameter is where foot-candles drop to 50% of maximum					Beam Angle: 53

DIMENSIONAL DATA

CROSS SECTION



BOTTOM VIEW



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IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

CE PRODUIT DOIT ÊTRE INSTALLÉ SELON LE CODE D'INSTALLATION PERTINENT, PAR UNE PERSONNE QUI CONNAÎT BIEN LE PRODUIT ET SON FONCTIONNEMENT AINSI QUE LES RISQUES INHÉRENTS.

DISCONNECT POWER TO ALL CIRCUITS BEFORE WIRING FIXTURE. INSTALL IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES. DO NOT CONNECT TO AN UNGROUNDED SUPPLY. READ ALL FIXTURE MARKINGS AND LABELS TO ENSURE CORRECT INSTALLATION OF FIXTURE. SUPPLEMENTAL INSTRUCTIONS MAY BE LOCATED ON THE FIXTURE, IN ADDITION TO THIS INSTRUCTION SHEET, REGARDING ORIENTATION, OR MOUNTING RESTRICTIONS.

SAVE THESE INSTRUCTIONS

TO PREVENT MRI MACHINE INTERFERENCE, ALL DC POWER AND DIMMING SIGNAL WIRING MUST BE COMPLETELY SHIELDED WITHIN GROUNDED ALUMINUM CONDUIT AND A SUITABLE MRI ROOM EMI FILTER MUST BE INSTALLED ON EACH LINE.

RECOMMENDED CEILING CUTOUT: 'R' STYLE: 4.125" DIA. 'NF' STYLE: 4.750" DIA.

DRYWALL CEILING

1. Loosen locking screws to extend hanger bars.
See Figure 1.
2. Align bottom of hanger bar tabs to bottom of joist.
3. Secure luminaire hanger bars using nails or screws.
4. Position luminaire as required and lock position by tightening locking screws.

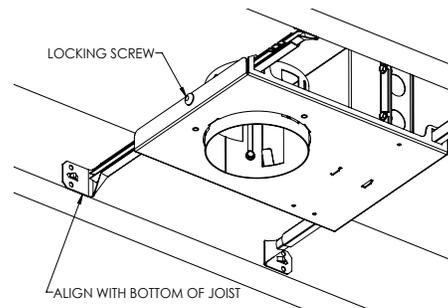


FIGURE 1

GRID CEILING

1. Loosen locking screws to extend hanger bars. See Figure 2.
2. Position luminaire as required and lock position by tightening locking screws.

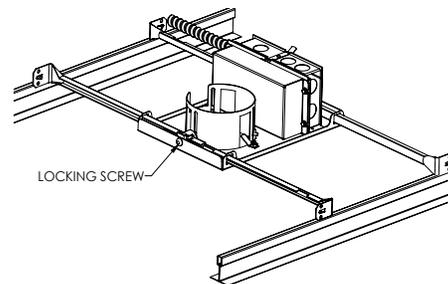


FIGURE 2



3. Attach luminaire securely to grid using brackets, screws and nuts provided or wiring to grid members. See Figure 3.

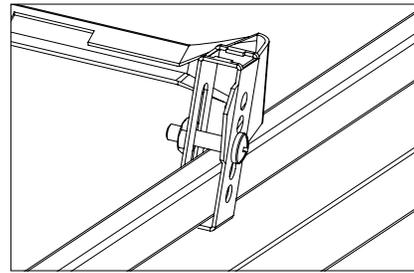
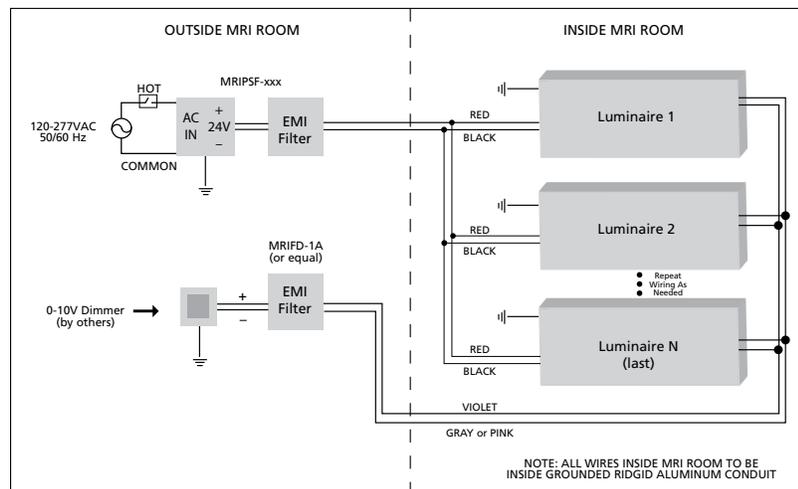


FIGURE 3

ELECTRICAL CONNECTION

1. Mount and wire the MRIPSF external power supply system per the procedures provided in the supplementary instruction sheet. Run conduit and DC wiring to an MRI room EMI filter. Make sure wiring is completely enclosed in grounded aluminum conduit. Any gaps, regardless of size, must be closed or wrapped in copper foil tape.
2. If a 0-10V dimming circuit is to be connected, install at this time. The 0-10V dimmer must be installed outside the shielded MRI environment with the Kenall MRIFD-1A dimming line filter (or equivalent) installed in accordance with the supplied installation instructions. Kenall recommends the Lutron Diva (DVSTV) and Lutron Nova T (NTSTV-DV) series to ensure the full range of dimming can be achieved.
3. Remove junction box cover and make conduit connections to the appropriate 1/2" conduit knockout(s).

NOTE: 24VDC and Dimming Wires to be run through same conduit.

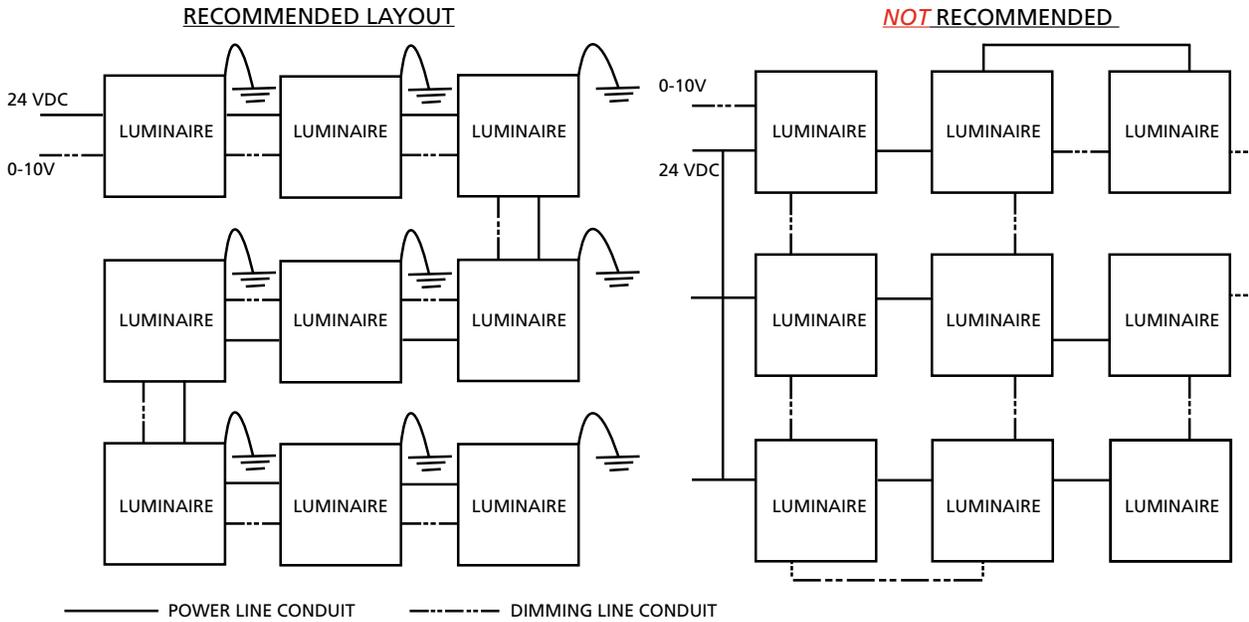


Single-Supply System Schematic

4. Run DC supply wiring, equal in size and temperature rating to the filter input wiring, between the filter output cables and the first luminaire within the shielded room. Follow recommended wiring layout described within Single-Supply System Schematic. All wiring must be within completely-enclosed, grounded conduit suitable for an MRI environment. Any gaps, regardless of size, must be closed or wrapped in copper foil tape. Special attention should be paid to the wiring entry point into the shielded space. Class 1 wiring methods are required.
5. Run the dimming signal wiring, equal in specification to the filter input wiring, between the filter output cables and the first luminaire within the shielded room. Maintain polarity between input and output sides of the filter and follow wiring recommendation in Multi-Fixture Wiring Schematic. All wiring must be within completely enclosed, grounded conduit suitable for an MRI environment. Any gaps, regardless of size, must be closed or wrapped in copper foil tape. Special attention should be paid to the wiring entry point into the shielded space. Cap gray (or pink) and violet leads at luminaire(s) if dimming function is not implemented.



6. Using at least an 18 AWG wire, ground the last housing in the sequence to the shielded ceiling. This can be done by fastening the wire to the copper ground wire in the luminaire's junction box..
7. Make DC supply and (optional) dimmer control connections within each luminaire.
8. Replace junction box cover and seal both covers using supplied copper foil tape.



Multi-Fixture System Schematic

Wiring from fixture to fixture and grounding the final fixture is recommended.

TRIM CONNECTION AND INSTALLATION

'R' STYLE:

1. With finished ceiling or tile in place, check position of locking springs attached to frame. If necessary, rotate springs so that they are against vertical frame wall (Figure 4).
2. Fasten conduit adapter to TRIM SECTION using the screw provided (see Figure 5).
3. Position TRIM SECTION such that springs are NOT aligned with steel flanges on side of lower housing and install TRIM SECTION. Press firmly to ceiling.
4. Check to ensure that the gasket between the TRIM SECTION and the ceiling is compressed.

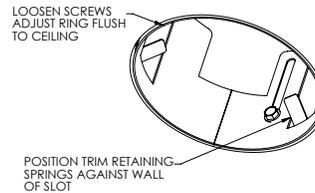


FIGURE 4

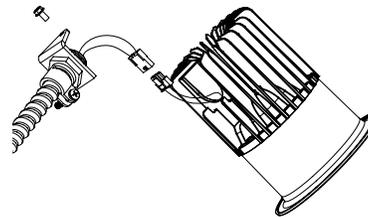


FIGURE 5

'NF' STYLE:

1. With finished ceiling or tile in place, loosen adjustment screws and position ring even with room side of ceiling (Figure 4).
2. Check position of locking springs attached to frame. If necessary, rotate springs so that they are against vertical frame wall (Figure 4).
3. Fasten conduit adapter to TRIM SECTION using the screw provided (see Figure 5).
4. Position TRIM SECTION such that springs are NOT aligned with steel flanges on side of lower housing and install TRIM SECTION. Press firmly to ceiling.
5. Check to ensure that the gasket between the TRIM SECTION and the ceiling is compressed.

TRIM REMOVAL

1. To remove trim, turn counter clockwise (left) until the locking springs rotate, freeing the trim.
2. Before re-installing the trim, rotate the locking springs back against the slot wall in the adjustment ring.

CUSTOMER SERVICE

For technical assistance, call 1-800-4KENALL (1-800-453-6255).

WARRANTY

For warranty information visit www.kenall.com/Resources/Certified-Performance-Warranties



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RECOMMENDED CEILING CUTOUT:

'R' STYLE: 4.125" SQUARE 'NF' STYLE: 4.750" SQUARE

DRYWALL CEILING

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See Figure 1.
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3. Secure luminaire hanger bars using nails or screws.
4. Position luminaire as required and lock position by tightening locking screws.

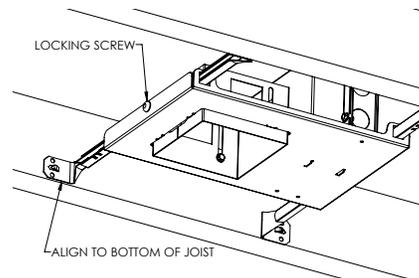


FIGURE 1

GRID CEILING

1. Loosen locking screws to extend hanger bars.
See Figure 2.
2. Position luminaire as required and lock position by tightening locking screws.

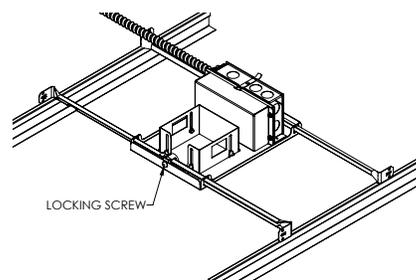


FIGURE 2



- Attach luminaire securely to grid using brackets, screws and nuts provided or wiring to grid members. See Figure 3.

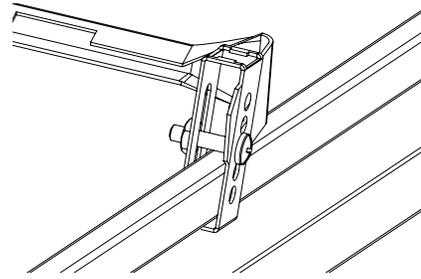
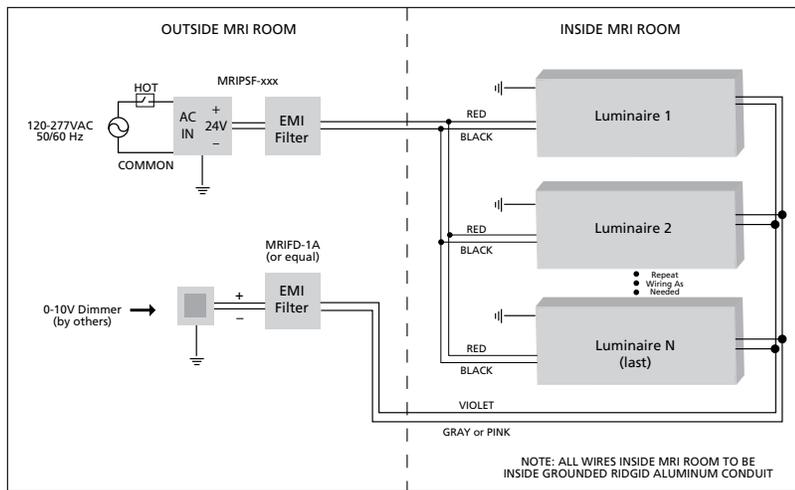


FIGURE 3

ELECTRICAL CONNECTION

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- If a 0-10V dimming circuit is to be connected, install at this time. The 0-10V dimmer must be installed outside the shielded MRI environment with the Kenall MRIFD-1A dimming line filter (or equivalent) installed in accordance with the supplied installation instructions. Kenall recommends the Lutron Diva (DVSTV) and Lutron Nova T (NTSTV-DV) series to ensure the full range of dimming can be achieved.
- Remove junction box cover and make conduit connections to the appropriate 1/2" conduit knockout(s).

NOTE: 24VDC and Dimming Wires to be run through same conduit.

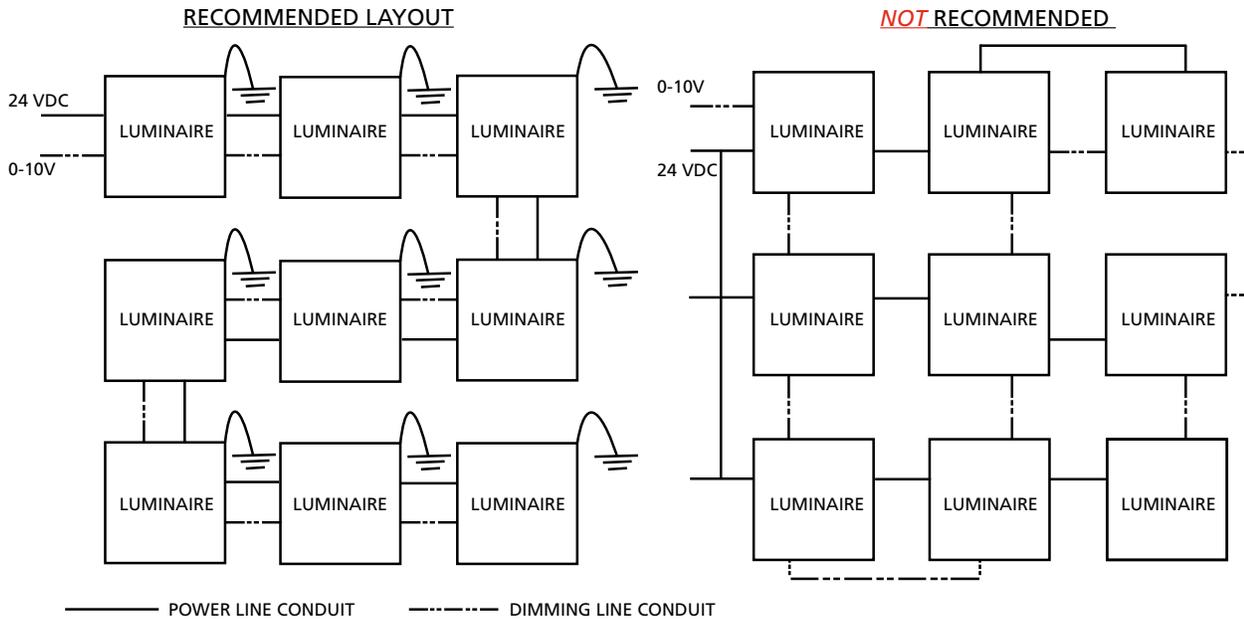


Single-Supply System Schematic

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- Run the dimming signal wiring, equal in specification to the filter input wiring, between the filter output cables and the first luminaire within the shielded room. Maintain polarity between input and output sides of the filter and follow wiring recommendation in Multi-Fixture Wiring Schematic. All wiring must be within completely enclosed, grounded conduit suitable for an MRI environment. Any gaps, regardless of size, must be closed or wrapped in copper foil tape. Special attention should be paid to the wiring entry point into the shielded space. Cap gray (or pink) and violet leads at luminaire(s) if dimming function is not implemented.



6. Using at least an 18 AWG wire, ground the last housing in the sequence to the shielded ceiling. This can be done by fastening the wire to the copper ground wire in the luminaire's junction box..
7. Make DC supply and (optional) dimmer control connections within each luminaire.
8. Replace junction box cover and seal both covers using supplied copper foil tape.



Multi-Fixture System Schematic

Wiring from fixture to fixture and grounding the final fixture is recommended.

TRIM CONNECTION AND INSTALLATION

To clean reflector use only a soft micro fiber lens cloth or alcohol wipe.

1. With finished ceiling or tile in place, loosen adjustment screws (see Figure 4) and position ring even with ceiling. Re-tighten screws securely.
2. Fasten conduit adapter to trim housing using the screw provided (see Figure 5).
3. Install trim and press firmly to ceiling.
4. Check to ensure the gasket between the trim ring and ceiling is compressed.

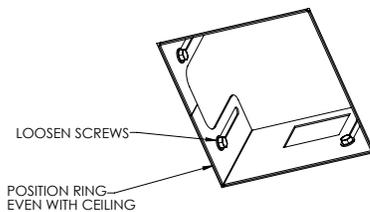


FIGURE 4

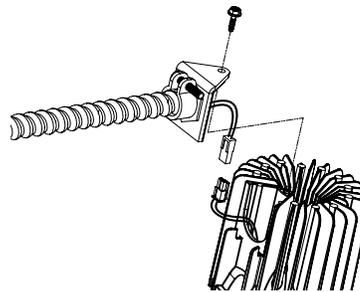


FIGURE 5



CUSTOMER SERVICE

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WARRANTY

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CUSTOMER ACKNOWLEDGEMENT

Customer acknowledges that these Installation Instructions are part of the product specification, and that the attached Installation Registration Form will be provided to the installer to sign and return to Kenall after installation is complete. This signed release is required by Kenall before order will be released into production.

Signature: _____

Date: _____

Print Name: _____

Company Name: _____

IMPORTANT SAFEGUARDS

To prevent MRI machine interference, all DC power and dimming signal wiring must be completely shielded within grounded aluminum conduit and a suitable MRI room EMI filter must be installed on each line.

When using electrical equipment, basic safety precautions should always be followed, including the following:
THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

SAVE THESE INSTRUCTIONS

-
- Disconnect power to all circuits before wiring system.
 - Install in accordance with all national, state, and local codes.
 - Do not connect to an ungrounded supply.
 - Wiring connections must be made internal to the enclosure.
 - Failure to install unit on a mechanically-sound surface may result in personal injury, physical damage, or potential fire hazard.
 - Use installation procedures appropriate for an environment involving MRI and sensitive electronic equipment.
 - Read all markings and labels to ensure correct installation of the power supply. Supplemental instructions may be located on the enclosure, in addition to this instruction sheet, regarding orientation, or mounting restrictions.
 - Read instructions provided with the MedMaster™ MRIPSF remote power supply and DC filter system for proper installation and electrical connection to the lighting system.



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MRIDL4-102523

CUSTOMER ACKNOWLEDGEMENT MRI INSTALLATION REGISTRATION FORM

Customer acknowledges that the attached Installation Registration Form will be provided to the installer to sign and return to Kenall after installation is complete. For warranty purposes, please fill out this form and return to Kenall by fax at (262) 891-9701.

I certify that the lighting installation for the listed MRI suite location is completed per the provided installation instructions and to the best of my abilities.

Please check off items to denote status:

- Installation instruction sheets for MRIPSF-480 remote power supply and DC filter system and individual luminaire(s) read and followed.
- MRIPSF-480 power supply and EMI filters are located outside the shielded enclosure.
- All DC supply wiring is completely enclosed within grounded aluminum conduit. Installation has no ungrounded/unshielded portions of conduit or openings of any size or shape.
- All dimming signal wiring is completely enclosed within grounded aluminum conduit. Installation has no ungrounded/unshielded portions of conduit or openings of any size or shape. Check here if dimming is not applicable:
- If supplied by others, MRI Room EMI filters for the 24VDC supply and dimming signal are of the type intended for MRI suites and are sized to the electrical load.
- DC supply power and dimming signal are NOT running through the same EMI filter. Check here if dimming is not applicable:
- Lighting system fully tested (including dimming operation, if applicable) while MRI machine is in idle and scan operation mode.

If any of these steps cannot be completed or you need technical assistance, please contact Kenall Technical Support at 1-800-4KENALL (1-800-453-6255).

Electrical Contractor

Installation Site

Name: _____

Name: _____

City/State: _____

City/State: _____

Phone: _____

FAX FORM TO (262) 891-9701

Installation Date: _____

(Do not write below line)

Kenall Received By: _____ Received Date: _____

