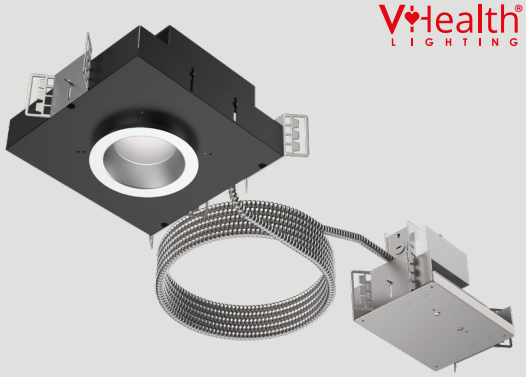
Part #	Prepared By
Project	Notes
Type	
Date	



4” Round, vHealth® MRI IC-RATED

Enclosed, LED Downlight, MRI, 750-5000 Lumens

Description

vHealth® MRI luminaires are made with non-ferrous metals to ensure safe and relialbe operation in medical imaging suites. Separate light module and fixture housings enable easy installation of the remote power supply. vHealth® MRI lights come standard with antimicrobial trim finishes to help mitigate infection risks throughout medical facilities. Optional EMI Filters available for turnkey solution. Made with regressed lenses, Lensed vHealth® MRI recessed downlights are easy to clean and provide high quality light. Shallow IC-Rated housings can be in direct contact with insulation.

Warranty & Notes

ELECTRICAL SYSTEM

- 750 - 5000 lumens
- 2700K - 5000K CCT
- 80 CRI with 3 SDCM color consistency (+90 CRI optional)
- Standard 0-10V 1% dimming driver; optional drivers available
- 120 - 277V
- Minimum 50,000 hour lifetime at L70
- -20°C to 30°C Ambient Operating Temperature Range
- Optional 2-Port & 4-Port EMI filters

OPTICS

- Precision spun architectural-grade reflector with regressed lens
- Polycarbonate, Glass and Acrylic lens options
- Reflectors available in Alzak® and painted finishes; Antimicrobial standard
- Distribution is free of streaks, striations and hotspots
- Medium distribution
- Easy to clean

FRAME & MOUNTING

- Non-Ferrous frame with integrated junction box featuring hinged access covers with spring retaining latches
- Remote mount driver frame with integrated junction box featuring hinged access covers with spring retaining latches
- Vertically adjustable rigid formed mounting brackets that accept a variety of mounting bars with auxillary nail holes and T-bar slots
- T-Bars included, suitable for joist spacing from 12” to 24”
- Supports straight conduit runs - (3) 3/4” knockouts
- Through branch wiring - (8) #12 AWG (4 in, 4 out), 90°C conductors
- Accessibility to all LED components from below ceiling
- Flush to the ceiling reflectors, secured by high quality friction clips

Listings

- ETL certified to UL 1598 and UL8750 requirements
- Tested according to LM-79 and LM-80 standards
- Energy Star® certified versions available (see Vantage Energy Star® guide for details)
- Suitable for damp locations; Wet location under covered ceiling
- IC-Rated: insulation can be in direct contact with luminaire
- Buy American Act

Warranty & Notes

- 5-year limited warranty on LED module and driver, www.vantageltg.com/product-warranty
- Photometric tests peformed by an accredited NVLP facility and in accordance to IESNA LM-79-2008 testing procedures

Ordering Information

EXAMPLE: VIC4EVHMRIU-1130K-MRI4011-SGC-AM-TDM

V4EVHMRI		-		-		-		-		-	

Series	Voltage	Lumens	Kelvin (CCT)	Reflector/Lens*	Antimicrobial Finishes	Options**
V4EVHMRI	**U** - 120V-277V **1** - 120V **2** - 277V *Must provide voltage when optional drivers are selected.	**07** - 750 **11** - 1100 **15** - 1500 **20** - 2000 **30** - 3000 **40** - 4000 **50** - 5000	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**MRI4011** **MRI4011P** **MRI4011FR** **MRI4011FRP** **MRI4014** **MRI4014P** **MRI4016** **MRI4012D** **MRI4014D** **MRI4016D** **MRI4018D**	**SCL-AM** Specular Clear Antimicrobial **SGC-AM** Soft Glow Clear Antimicrobial **WHT-AM** White Matte Antimicrobial *All trims supplied standard with white painted flange.	**VEMI2** **VEMI4** **TDM** **HCR** **PF** **EM-17**

*Lens Notes

MRI4011 - Medium Beam Clear Glass Lensed Reflector
MRI4011P - Medium Beam Clear Polycarbonate Lensed Reflector
MRI4011FR - Medium Beam Frosted Glass Lensed Reflector
MRI4011FRP - Medium Beam Frosted Polycarbonate Lensed Reflector
MRI4014 - Medium Beam Prismatic Glass Lensed Reflector
MRI4014P - Medium Beam Prismatic Acrylic Lensed Reflector
MRI4016 - Medium Beam Fresnel Glass Lensed Refelctor
MRI4012D - BeamShaper® Lens, 20° Beam Angle Reflector
MRI4014D - BeamShaper® Lens, 40° Beam Angle Reflector
MRI4016D - BeamShaper® Lens, 60° Beam Angle Reflector
MRI4018D - BeamShaper® Lens, 80° Beam Angle Reflector

*Options Notes

VEMI2 - 2-Port EMI Filter
VEMI4 - 4-Port EMI Filter
TDM - Triac (Foward Phase, 120V only) dimming driver
HCR - High CRI, 90+ minimum. Not available in 5000 Kelvin.
PF - Polished Flange
EM-17 - Emergency battery back-up. Remote test button & indicator light. For 750-5000 lumen luminaires.

Nominal Lumens	Delivered Luemns	Wattage	Lumens Per Watt
750	465	8.8	52.84
1100	682	15.4	44.29
1500	929	21.6	43.01
2000	1239	27.2	45.55
3000	1859	33.2	55.99
4000	2478	45.6	54.34
5000	3098	58.5	52.96

All measured at 3500K with a standard medium distribution
*Actual Wattage/Lumens may vary.

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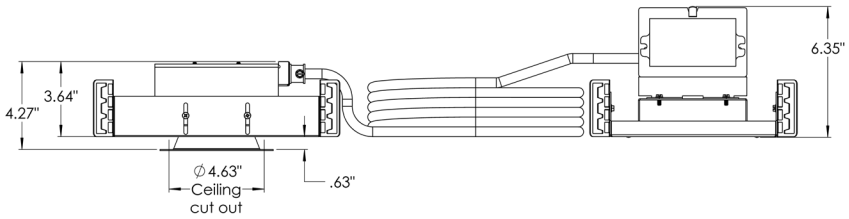
4” Round, vHealth® MRI IC-RATED

Enclosed, LED Downlight, MRI, IC-Rated, 750-5000 Lumens

Dimensional Data

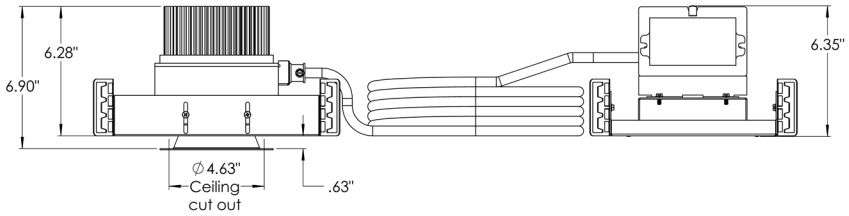
Above Ceiling Height
with 5/8” Ceiling
• 3.64” ≤ 3000L
• 3.84” 4000L & 5000L

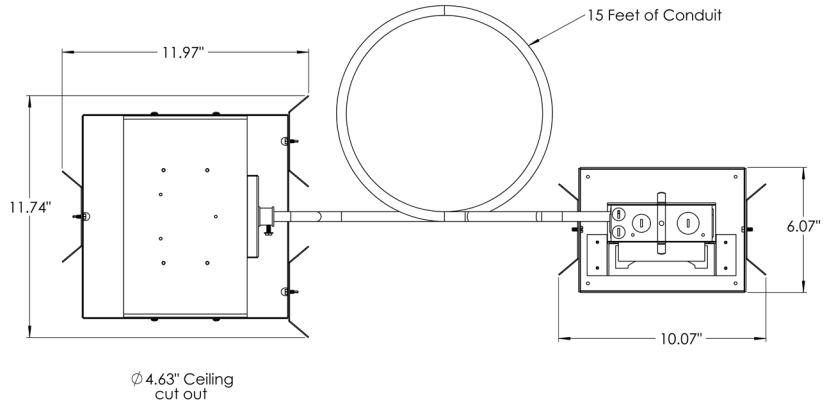
Above Ceiling Height
• Max Ceiling Thickness
1.17” - 3.10”
• Min Ceiling Thickness
0.20” - 4.07”



Above Ceiling Height
with 5/8” Ceiling
• 6.28” 6000L & 7000L

Above Ceiling Height
• Max Ceiling Thickness
1.17” - 5.74”
• Min Ceiling Thickness
0.20” - 6.70”





Photometry

Model
VIC4EVH-2035K-MRI4011-SCL-AM

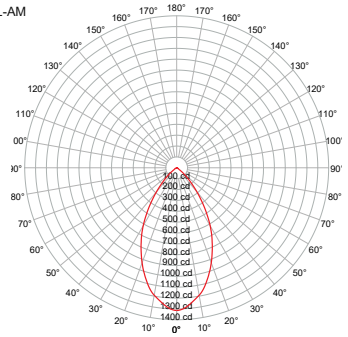
Lumens
1,239

Watts
27.2

Efficacy
45.55

SC
0.84

Candela Curve



Cone of Light

Mounting Height AFF	FC at Center on Floor	Beam Diameter
8.0 '	21 fc	8.8 '
10.0 '	13 fc	11.0 '
12.0 '	9 fc	13.2 '
14.0 '	7 fc	15.4 '
16.0 '	5 fc	17.6 '
20.0 '	3 fc	21.9 '
24.0 '	2 fc	26.3 '
30.0 '	1 fc	32.9 '

Candela Table

0.00°	1,314
5.00°	1,271
15.00°	1,076
90.00°	0

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0° - 30°	774	62%
0° - 40°	1,054	85%
0° - 60°	1,222	99%
60° - 90°	40	3%
0° - 20°	420	34%
20° - 50°	793	64%
50° - 70°	87	7%
70° - 90°	2	0%
0° - 90°	1,239	100%
90° - 180°	0	0%
Total	1,239	100%

Spacing Criterion

Height	Spacing	Light Level*
8 ft	6.7 ft	~ 21 fc
10 ft	8.4 ft	~ 13 fc
12 ft	10.1 ft	~ 9 fc
8 ft	5.0 ft	~ 37 fc
10 ft	6.3 ft	~ 23 fc
12 ft	7.6 ft	~ 16 fc
8 ft	3.4 ft	~ 82 fc
10 ft	4.2 ft	~ 53 fc
12 ft	5.0 ft	~ 37 fc

* approximate direct light level at floor based on spacing criterion overlap

Multiplier

CRI	Multiplier	Kelvin	Multiplier	Reflector Finish	Multiplier
80	1	2700K	0.939	SCL	1
90	0.8	3000K	0.975	SGC	0.95
		3500K	1	WHT	0.87
		4000K	10.35		
		5000K	1.098		

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vHealth® MRI

Electromagnetic Interference (EMI) Filter

VEMI2 - 2-Port EMI Filter

VEMI4 - 4-Port EMI Filter

APPLICATIONS

- MRI Rooms

MATERIALS

- Steel Enclosure
- Steel Threaded Pipe
- Easy Connect Terminal Blocks

ELECTRICAL

- Calss II output 100W
- 3A / up to 40VDC

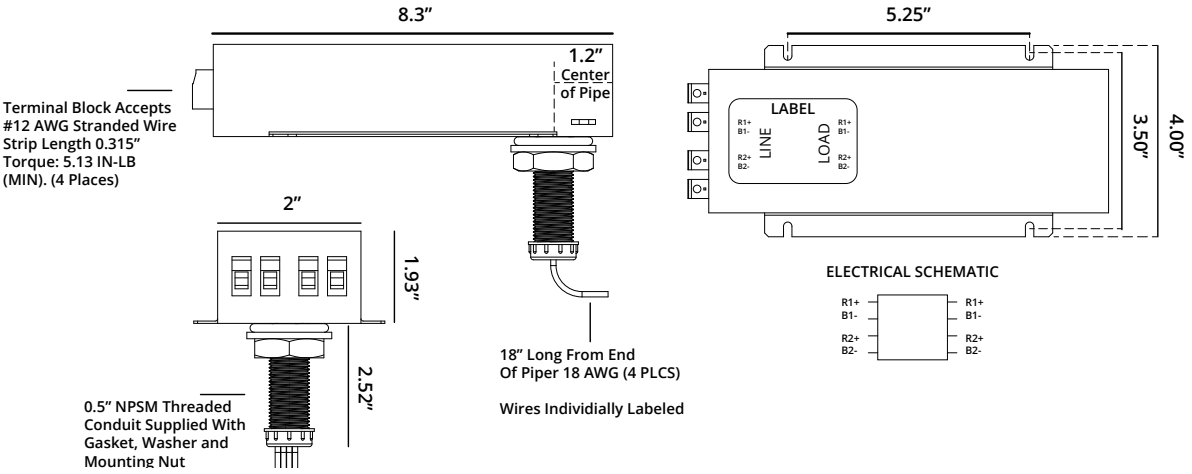
SPECIFICATIONS

- Filter provides >100dB attenuation between 10Khz - 1Ghz on 0-10V dimming circuits
- Operating temperature rating: -10°C to + 60°C

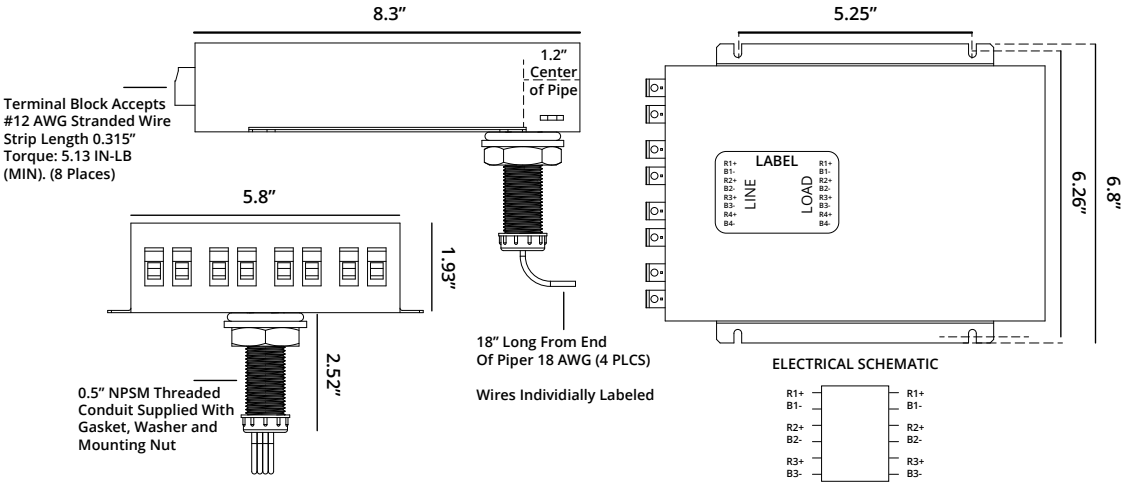
MECHANICAL (DIMENSIONS - INCHES)

PART NUMBER	DESCRIPTION	LENGTH	WIDTH	DEPTH
VEMI2	2-Port EMI Filter	8.70″	3.98″	1.93″
VEMI4	4-Port EMI Filter	8.70″	6.73″	1.93″

VEMI2 - 2-Port EMI Filter



VEMI4 - 4-Port EMI Filter



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