

Catalog #	Type
Project	
Notes	Date
Prepared by	



4" LED/vHealth™ MRI

LED 4" Luna Non-Ferrous MRI Downlight, 750-7000 Lumens



Description

Designed for medical imaging areas. 4 inch LED recessed, non-IC luminaire with medium beam spread, featuring superior thermal management with low profile projection into the plenum. Light engine features LED module and LED driver with outputs ranging from 750 to 7000 lumens and color temperatures from 2700 to 5000K. A wide selection of drivers, anti-microbial finishes and emergency battery back-up options available.

Specifications and Features

Construction

Non-ferrous mounting frame with integral junction box featuring hinged access covers and spring retaining latches; (3) 3/4" knockouts allowing straight conduit runs. Listed for (8) #12 AWG (4 in, 4 out), 90° C conductors and feed through branch wiring. LED module accessible from below ceiling. Remote mount driver. Reflectors are held in place by friction clips, securing reflector flange tightly to finished ceiling.

Vertically adjustable mounting brackets, accessible from below, accept a variety of mounting bars. Provided as standard with rigid formed bar hangers with joist positioning tabs, integral nails, auxiliary nail holes and T-bar slots. Suitable for joist spacing from 12 to 24".

Light Engine

LED module produces up to 107 lumens per watt. Output ranges from 750 to 7000 lumens with (4) standard color temperatures. Color variations are less than 3-step MacAdam ellipses and have greater than 85 CRI at all color temperatures. Rated life in excess of 50,000 hours at 70% of initial lumen output (L70≥50,000 hours). Standard driver featuring auto reset thermal protection and 0-10V

dimming to 1% of light output with flicker free operation. Optional 0-10V to 0.1%, Triac (phase control) Lutron Fade-to-Black and Ecosystem Fade-to-Black dimming drivers available.

Optics

LED module features soft white acrylic window, obscuring LED's, preventing pixilation and producing uniform brightness. Reflectors are a one-piece spinning from heavy gauge, high purity aluminum and are self-flanged. Reflectors are available in anti-microbial finishes, producing a uniform distribution free of streaks, striations or hotspots while also provide superior cutoff and brightness control.

Controls

Compatible with a wide range of controls systems depending on driver selected. Standard driver features SensorReady technology for simple 2 wire connection to motion and daylight harvesting sensors. An open source architecture allows for the use of a wide variety of sensors and the ability to control individual or grouped luminaires through wireless communications.

Listings

Manufactured and Listed to UL 1598, ETL and CSA standards. Non-IC rated. Insulation to be kept 3" from luminaire. Suitable for Damp Locations; Wet location under covered ceiling. Ambient operating temperature range: -20°C to 30°C. All photometric tests performed by an accredited NVLP facility and in accordance to IESNA LM-79-2008 testing procedures.

Warranty

5-year limited warranty on LED module and driver.

Ordering Information

EXAMPLE: VGC4VEVHMRIU-1130K-LVGC421-150-SGC-AM

Series/Source	Voltage	Lumens	Kelvin	Reflector	Finish	Options
VGC4VEVHMRI 4" round, Luna	U ¹ - 120V-277V 1 - 120 Volts 2 - 277 Volts	-07 ⁸ - 750 -11 ⁸ - 1100 -15 ⁸ - 1500 -20 ⁸ - 2000 -30 - 3000 -40 ³ - 4000 -50 ^{3,4} - 5000 -60 ^{2,3,4} - 6000 -70 ^{2,3,4} - 7000	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K	LVGC421-150	SCL-AM SGC-AM WHT-AM	DL-2 ² LDE1 ³ TDM ⁴ DTD ⁶ EM-17 ⁷ EM-20 ⁸ HCR ¹⁰ PF AT

Notes

- 1 - Must provide voltage when optional drivers are selected.
- 2 - DL-2 Not available above 3000 Lumens.
- 3 - LDE1 not available above 4000 Lumens.
- 4 - TDM driver not available above 5000 Lumens.
- 6 - DTD not available above 4000 Lumens.

- 7 - EM17 for use up to 5000 lumens.
- 8 - EM20 for use above 5000 Lumens.
- 10 - HCR not available above 2000 Lumens.

Anti-Microbial Reflector Finish Options

- SCL-AM - Specular Clear
- SGC-AM - Soft Glow Clear
- WHT-AM - White Painted
- All trims supplied standard with white painted flange.

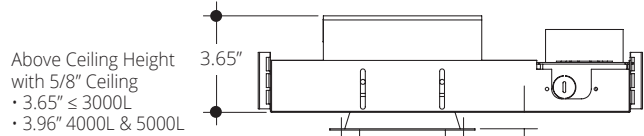
Options

- DL-2² - Lutron 2 wire Hi-Lume Dimming Driver.
- LDE1³ - Lutron EcoSystem Fade-to-Black™.
- TDM⁴ - Triac Dimming Driver. Not available above 5000 Lumens.
- DTD⁶ - 0-10V, 0.1% dimming.
- EM-17⁷ - Emergency battery back-up. Remote test button & indicator Light.
- EM-20⁸ - Emergency battery back-up.
- Remote test button & indicator Light.
- HCR¹⁰ - 90 CRI (minimum).
- PF - Polished Flange.
- AT - Air Tight

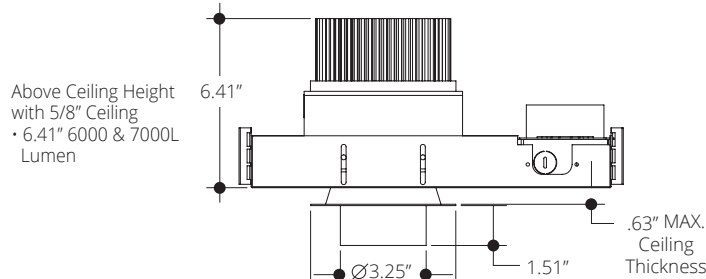
Vantage reserves the right to change components, finishes or design details in any manner which does not alter the installed appearance or reduce performance and intended function.

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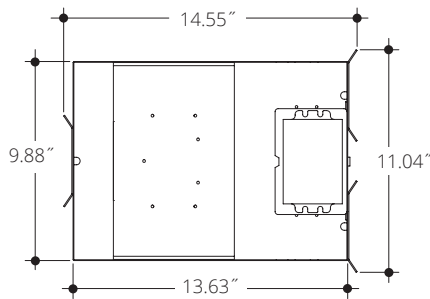
Ceiling Cut Out 4.63"



Above Ceiling Height
 • Max Ceiling Thickness
 1.30" - 3.14"
 • Min Ceiling Thickness
 0.25" - 4.04"

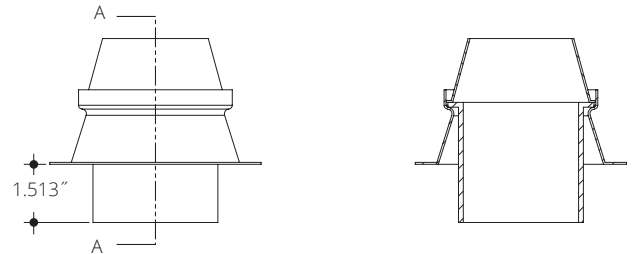


Above Ceiling Height
 • Max Ceiling Thickness
 1.31" - 5.90"
 • Min Ceiling Thickness
 0.25" - 6.80"



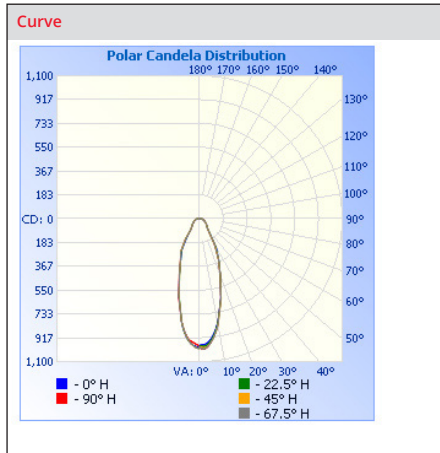
Lumens	Wattage*
750	9.4
1100	15.4
1500	21.6
2000	27.2
3000	33.2
4000	45.6
5000	58.5
6000	60.1
7000	85.3

*All measured at 3000K
 Actual Wattage/Lumens may vary.



Photometrics

Test Number
 PHM-RPT-180309-13
Model
 VGC4EVHMRIU-1535K
Lumens
 781.08
Efficacy
 37.49
SC
 0.9908



Cone of Light

Center Beam ft	Beam Width	Center Beam ft	Beam Width
1.7	340	1.2	1.2
3.3	90.3	2.2	2.3
5.0	39.3	3.4	3.4
6.7	21.9	4.5	4.6
8.3	14.3	5.6	5.7
10.0	9.83	6.8	6.9

Candela Table

Degrees Vertical	Candela
0.0	983
1.0	971
3.0	962
5.0	936
7.0	893
9.0	838
10.0	807
20.0	632
25.0	467
30.0	347
35.0	256
40.0	140
45.0	92
50.0	80
55.0	59
60.0	50
65.0	43
70.0	36
75.0	30
80.0	25
85.0	21
90.0	17
95.0	15
100.0	11

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	419.9	53.8
0-40	523.6	67.0
0-60	643.1	82.3
60-90	104.2	13.3
70-100	74.9	9.6
90-120	25.4	3.3
0-90	747.3	95.7
90-180	33.8	4.3
0-180	781.1	100.0

VANTAGE LIGHTING vHealth™ Multipliers

CRI	MULTIPLIER	KELVIN	MULTIPLIER	FINISH	MULTIPLIER
80	1	5000K	1.098	SCL	1
90	0.81	4000K	1.035	SGC	0.95
		3500K	1	WHT	0.87
		3000K	0.975		
		2700K	0.939		