

Part #	Prepared By
Project	Notes
Type	
Date	



# 4" Round, vHealth® Behavioral Health

## Enclosed, LED Downlight, 750-7000 Lumens - Shallow Housing



**\*VANDAL RESISTANT**

### Description

vHealth® luminaires are designed to meet the specific needs of modern healthcare facilities. Standard features include shallow, high output housings for tight healthcare plenums and antimicrobial trim finishes to help mitigate infections. Optional BioSync® tunable white color can be integrated to promote circadian entrainment. Made with regressed lenses, Enclosed shallow vHealth® recessed downlights are easy to clean and provide high quality light. Optional Air Tight is available for fully sealed lens and reflector.

### Warranty & Notes

#### ELECTRICAL SYSTEM

- 750 - 7000 lumens
- 2700K - 5000K CCT
- Optional BioSync® Tunable White, 2700K - 6500K CCT
- Optional BioSync® Warm Tunable White, 1800K - 4000K CCT
- 80 CRI with 3 SDCM color consistency (+90 CRI optional)
- Standard 0-10V 1% dimming driver, ZDM; optional drivers available
- 120V-277V Input Volts
- Minimum 50,000 hour lifetime at L70
- -20°C to 30°C Ambient Operating Temperature Range

#### OPTICS

- Precision spun architectural-grade reflector with regressed lens
- Polycarbonate lens
- Reflectors available in Alzak® and painted finishes; Antimicrobial standard
- Distribution is free of streaks, striations and hotspots
- 60° Medium distribution
- Easy to clean
- Air Tight sealed lens/reflector optional

### FRAME & MOUNTING

- Galvanized steel 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 auxiliary 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
- Buy American Act

### Warranty & Notes

- 5-year limited warranty on LED module and driver
- www.vantageltg.com/product-warranty
- Photometric tests performed by an accredited NVLP facility and in accordance to IESNA LM-79-2008 testing procedures
- Insulation cannot be in contact with luminaire

### Features

- Anti-Ligature design
- Impact resistant to IK-10 standard
- Vandal resistant fasteners below ceiling plane

### Ordering Information

EXAMPLE: V4EVHVRU-1130K-L4011FRP-SGC-AM-TDM

V4EVH						
Series	Voltage	Lumens	Kelvin (CCT)	Reflector/Lens*	Antimicrobial Finishes	Options**
V4EVHVR	<b>U</b> - 120V-277V <b>1</b> - 120V <b>2</b> - 277V  *Must provide voltage when optional drivers are selected.	<b>07</b> - 750 <b>11</b> - 1100 <b>15</b> - 1500 <b>20</b> - 2000 <b>30</b> - 3000 <b>40</b> - 4000 <b>50</b> - 5000 <b>60</b> - 6000 <b>70</b> - 7000	<b>27K</b> - 2700K <b>30K</b> - 3000K <b>35K</b> - 3500K <b>40K</b> - 4000K <b>50K</b> - 5000K  <b>BSC</b> - BioSync® Tunable White (2700K-6500K)* <b>BSW</b> - BioSync® Warm Tunable White (1800K-4000K)*  *Available up to 2000 lumens	<b>L4011</b> <b>L4011P</b> <b>L4011FR</b> <b>L4011FRP</b> <b>L4014</b> <b>L4014P</b> <b>L4012D</b> <b>L4014D</b> <b>L4016D</b> <b>L4018D</b>	<b>SCL-AM</b> Specular Clear Antimicrobial  <b>SGC-AM</b> Soft Glow Clear Antimicrobial  <b>WHT-AM</b> White Matte Antimicrobial  *All trims supplied standard with white painted flange.	<b>ZDM</b> <b>DTD</b> <b>TDM</b> <b>DL-2</b> <b>LDE1</b> <b>PEQ0</b> <b>LDES</b> <b>HCR</b> <b>AT</b> <b>EM-17</b> <b>EM-20</b> <b>IP65</b>

#### \*Lens Notes

- L4011 - Medium Beam Clear Glass Lensed Reflector
- L4011P - Medium Beam Clear Polycarbonate Lensed Reflector
- L4011FR - Medium Beam Frosted Glass Lensed Reflector
- L4011FRP - Medium Beam Frosted Polycarbonate Lensed Reflector
- L4014 - Medium Beam Prismatic Glass Lensed Reflector
- L4014P - Medium Beam Prismatic Acrylic Lensed Reflector
- L4012D - BeamShaper® Lens, 20° Beam Angle Reflector
- L4014D - BeamShaper® Lens, 40° Beam Angle Reflector
- L4016D - BeamShaper® Lens, 60° Beam Angle Reflector
- L4018D - BeamShaper® Lens, 80° Beam Angle Reflector

#### \*\*Options Notes

- ZDM - 0-10V 1% dimming driver. (standard)
- DTD - 0-10V 0.1% dimming driver. Not available above 4000 lumens.
- TDM - Triac (Forward Phase, 120V only) dimming driver. Not available above 5000 lumens.
- DL-2 - Lutron 2-Wire Hi-lume dimming driver. Not available above 3000 lumens.
- LDE1 - Lutron Hi-lume 1% with Soft-On, Fade-to-Black dimming driver. Not available above 4000 lumens.
- PEQ0 - Lutron Hi-lume Premier 0.1% with Soft-On, Fade-to-Black dimming driver. Not available above 4000 lumens.
- LDES - Lutron 5-Series 5% dimming driver. Not available above 4000 lumens.
- HCR - High CRI, 90+ minimum. Not available in 5000 Kelvin.
- AT - Air Tight
- PF - Polished Flange
- EM-17 - Emergency battery back-up. Remote test button & indicator light. For 750-5000 lumen luminaires.
- EM-20 - Emergency batter back-up. Remote test button & indicator light. For 6000 & 7000 lumen luminaires.
- IP65 - Requires lens EXCEPT prismatic design

Nominal 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 3500K with a standard medium distribution *Actual Wattage/Lumens may vary.	

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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# 4" Round, vHealth®

Enclosed, LED Downlight, 750-7000 Lumens - Shallow Housing

## Dimensional Data

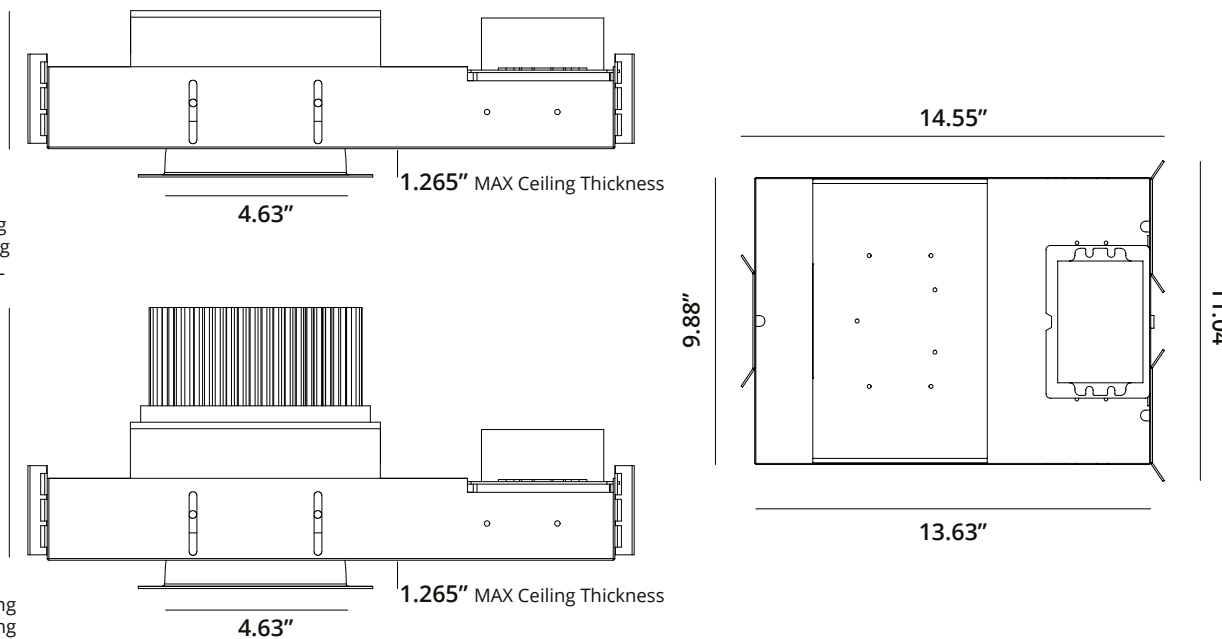
Ceiling Cut Out 4.63"

Overall Height with 5/8" Ceiling  
**3.31"** 3000L  
**3.61"** 4000L & 5000L

Overall Height Min. 3.14" with 1.25" Ceiling  
 Max. 3.75" With 0.25" Ceiling  
 Add 0.30" for 4000 & 5000L

Overall Height with 5/8" Ceiling  
**6.07"** 6000L & 7000L

Overall Height Min. 5.50" with 1.25" Ceiling  
 Max. 6.50" With 0.25" Ceiling



## Antimicrobial Reflector Finishes



**WHT-AM**  
White Matte

**SGC-AM**  
Soft Glow Clear

**SCL-AM**  
Specular Clear

## Photometry

Model  
 V4EVH-2035K-L406011-SCL

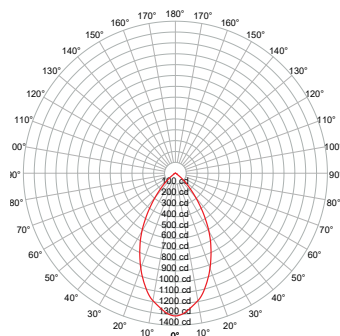
Lumens  
 1,239

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°	0.00°
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%
<b>Total</b>	<b>1,239</b>	<b>100%</b>

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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