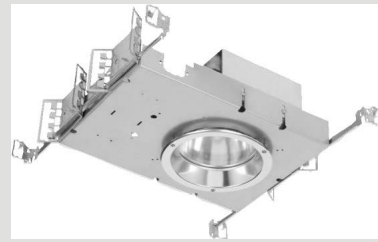


Catalog #	Type
Project	
Notes	Date
Prepared by	



# 6" Round vHealth® Vandal Resistant

LED 6" Lensed Downlight, 750-7000 Lumens



## Description

Designed for behavioral health healthcare facilities. 6 inch LED recessed vandal resistant, 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

Reflector assembly attached with tamper resistant fasteners, 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. Driver, LED module and optional battery backup accessible from below ceiling. 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 features auto reset thermal protection and 0-10v dimming to 1% light output with flicker free operation.

Optional Triac (phase control) Lutron Fade-to-Black and other dimming drivers available. Optional

BioSync™ Color tuning technology.

### Optics

LED module features soft white acrylic window, obscuring LED's, preventing pixilation and producing uniform brightness. Reflectors are one piece spin stamped from heavy gauge aluminum and self flanged. Antimicrobial finish standard. Finish produces uniform distribution free of striation, streaks and hotspots while providing superior cutoff and brightness.

### 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 UL1598, ETL and CSA standards. Non IC rated. Insulation to be kept 3" from luminaire. Suitable for damp location. 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 with IESNA LM79-2008 testing procedures. ENERGY STAR® certified product.

### Warranty

5-year limited warranty on LED module and driver.

EXAMPLE: V6EVHU-1130K-L6011FR-SGC-AM

Series/Source	Voltage	Lumens	Kelvin	Reflector	Lens	Finish	Options
<b>V6EVHVR</b> 6" round	<b>U<sup>1</sup></b> - 120V-277V <b>1</b> - 120 Volts <b>2</b> - 277 Volts	<b>-07<sup>8</sup></b> - 750 <b>-11<sup>8</sup></b> - 1100 <b>-15<sup>8</sup></b> - 1500 <b>-20<sup>8</sup></b> - 2000 <b>-30</b> - 3000 <b>-40<sup>3</sup></b> - 4000 <b>-50<sup>3,4</sup></b> - 5000 <b>-60<sup>2,3,4</sup></b> - 6000 <b>-70<sup>2,3,4</sup></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™ Color <sup>9</sup>	<b>L601</b> <i>Medium Distribution</i> <b>VVRL6011P</b> <b>VVRL6011FRP</b> <b>VVRL6014P</b> <b>VVRL6012D 20°</b> <b>VVRL6014D 40°</b> <b>VVRL6016D 60°</b> <b>VVRL6018D 80°</b>	<b>1</b> <b>1P</b> <b>1FR</b> <b>1FRP</b> <b>4</b> <b>4P</b> <b>2D</b> <b>4D</b> <b>6D</b> <b>8D</b>	<b>SCL-AM</b> <b>SGC-AM</b> <b>WHT-AM</b>	<b>DL-2<sup>2</sup></b> <b>LDE1<sup>3</sup></b> <b>TDM<sup>4</sup></b> <b>DTD<sup>6</sup></b> <b>EM-17<sup>7</sup></b> <b>EM-20<sup>8</sup></b> <b>HCR<sup>10</sup></b> <b>PF</b> <b>AT</b> <b>IP65</b>

### Notes

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

- EM17 and EM17 for use up to 5000 Lumens.
- EM20 for use above 5000 Lumens.
- BSC not available above 2000 Lumens, includes DTD driver
- HCR not available above 2000 Lumens.
- IP65 - Requires lens EXCLUDING lens 4 and 4P

### Lens Options

- Clear Glass
- Clear Polycarbonate
- 1FR - Frosted Glass
- 1FRP - Frosted Polycarbonate
- Prismatic Glass
- Prismatic Acrylic

### Special Optics

- Optical Diffuser-20°
- Optical Diffuser-40°
- Optical Diffuser-60°
- Optical Diffuser-80°

### Anti-Microbial Reflector Finish Options

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

### Options

- Lutron 2 wire Hi-Lume Dimming Driver.
- LDE1<sup>3</sup> - Lutron EcoSystem Fade-to-Black™.
- TDM<sup>4</sup> - Triac Dimming Driver. Not available above 5000 Lumens.
- DTD<sup>6</sup> - 0-10V, 0.1% dimming.
- EM-17<sup>7</sup> - Emergency battery back-up. Remote test button & indicator Light.

- EM-20<sup>8</sup> - Emergency battery back-up. Remote test button & indicator Light.
- HCR<sup>10</sup> - 90 CRI (minimum).
- PF - Polished Flange.
- AT - Air Tight
- IP65 - requires lens EXCLUDING 4 and 4P

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.

## LED 6" Lensed Downlight, 750-7000 Lumens

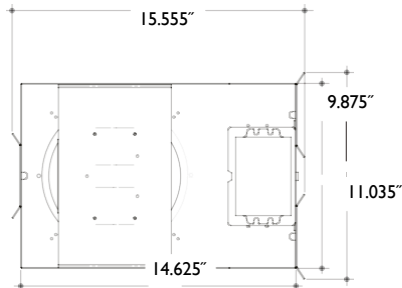
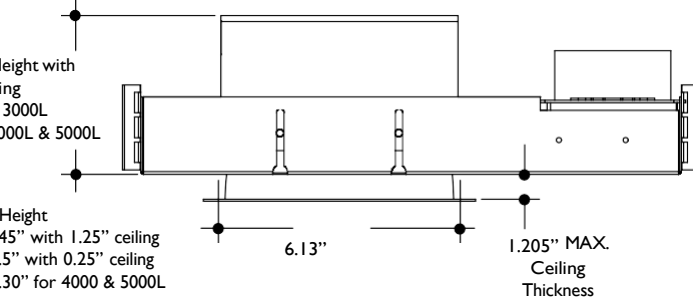
Ceiling Cut Out 6.13"

Overall Height with  
5/8" Ceiling  
• 4.01" ≤ 3000L  
• 4.31" 4000L & 5000L

Overall Height  
• Min 3.45" with 1.25" ceiling  
• Max 4.5" with 0.25" ceiling  
• Add 0.30" for 4000 & 5000L

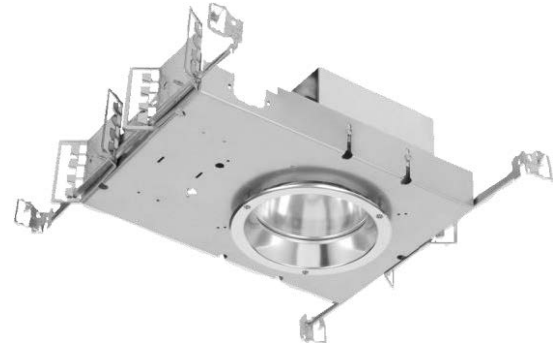
Overall Height with  
5/8" Ceiling  
6.76" 6000L & 7000L

Overall Height  
• Min 6.20" with 1.25" ceiling  
• Max 7.26" with 0.25" ceiling



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.*



PLEASE NOTE – IP65 option requires four equally spaced fasteners through the reflector flange, visible from below the ceiling plane.

## Photometrics

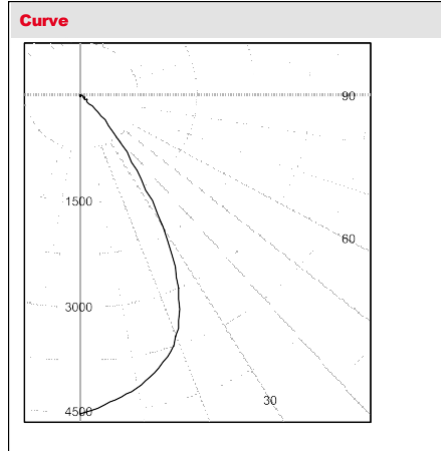
**Test Number**  
LLI-17113-10

**Model**  
V6EVHU-5035K-L6011SCL

**Lumens**  
4095

**Efficacy**  
70.2

**SC**  
0.99



**Cone of Light**

Center Beam Ic	Beam Width

**Candela Table**

Degrees Vertical	Candela
0.0	4504
2.5	4465
5.0	4378
7.5	4303
10.0	4221
12.5	4124
15.0	4002
20.0	3646
22.5	3371
25.0	3019
27.5	2631
30.0	2158
32.5	1670
35.0	1279
37.5	960
40.0	658
42.5	428
45.0	253
47.5	139
50.0	96

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	2693	70.6
0-40	3704	90.5
0-60	3983	97.5
0-90	4095	100.0
40-90	391	9.5
60-90	102	2.5
90-180	0	0.0
0-180	4095	100.0

### VANTAGE LIGHTING F-CLASS GEN V Multipliers

CRI	MULTIPLIER
80	1
90	0.81

KELVIN	MULTIPLIER
5000K	1.098
4000K	1.035
3500K	1
3000K	0.975
2700K	0.939

FINISH	MULTIPLIER
SCL	1
SGC	0.95
WHT	0.87