| Catalog # | | Type |
|---|---|---|
| Project | | |
| Notes | | Date |
| Prepared by | | |

# 6" LED/vHealth™

LED 6" Open Wall Wash, 750-5000 Lumens

## Description

Designed for modern healthcare facilities. 4 inch LED recessed, non-IC luminaire with wall wash distribution, 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

Galvanized steel mounting frame with integral junction box featuring hinged access covers and spring retaining latches; (3) ¾" knockouts allowing straight conduit runs. Listed for (8) #12 AWG (4 in, 4 out), 90o 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 featuring auto reset thermal protection and 0-10V

dimming to 1% of light output with flicker free operation. Optional Triac (phase control) Lutron Fade-to-Black and additional drivers available. Optional BioSyncTM Color tuning technology.

### 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: -20oC to 30oC. All photometric tests performed by an accredited NVLP facility and in accordance to IESNA LM-79-2008 testing procedures. ENERGY STAR® certified product.

### Warranty

5-year limited warranty on LED module and driver.

## Ordering Information

EXAMPLE: V6OVHWWU-1130K-L6160-SGC-AM

| Series/Source | Voltage | Lumens | Kelvin | Reflector | Finish | Options |
|---|---|---|---|---|---|---|
| V6OVHWW<br>6" round,<br>Wall Wash | U[1] – 120V-277V<br>1 – 120 Volts | -07 – 750<br>-11 – 1100<br>-15 – 1500<br>-20 – 2000<br>-30 – 3000<br>-40[3] – 4000<br>-50[3,4] – 5000<br>-60[2,3,4] – 6000<br>-70[2,3,4] – 7000 | 27K – 2700K<br>30K – 3000K<br>35K – 3500K<br>40K – 4000K<br>50K – 5000K<br>BSC – BioSync™ Color[9] | L6160 | SCL-AM<br>SGC-AM<br>WHT-AM | DL-2[2]<br>LDE1[3]<br>TDM[4]<br>DTD[6]<br>EM-17[7]<br>EMI-17[7]<br>EM-20[8]<br>HCR[10]<br>PF |

**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 and EMI17 for use up to 5000 lumens.
8 - EM20 for use above 5000 Lumens.
9 - BSC not available above 2000 Lumens, includes DTD driver
10 - HCR not available above 2000 Lumens.
11 - EMI not available with shower trim.

**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-2[2] - Lutron 2 wire Hi-Lume Dimming Driver.
LDE1[3] - Lutron EcoSystem Fade-to-Black™.
TDM[4] - Triac Dimming Driver.
DTD[6] - 0.1% dimming.
EM-17[7] - Emergency battery back-up. Remote test button & indicator Light.

EMI-17[7] - Emergency battery back-up. Integral test button & indicator Light.
EM-20[8] - Emergency battery back-up. Remote test button & indicator Light.
HCR[10] - 90 CRI (minimum).
PF - Polished Flange.

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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# LED 6" Open Wall Wash, 750-5000 Lumens

Ceiling Cut Out 6.13˝

Above Ceiling Height
with 5/8" Ceiling
• 5.39" ≤ 3000L
• 5.70" 4000L & 5000L

Above Ceiling Height
• Max Ceiling Thickness
  1.21" - 4.81"
• Min Ceiling Thickness
  0.15" - 5.87'

5.39"
6.02"
Ø 6.13"
.63" MAX.
Ceiling
Thickness

15.48˝
9.93˝
11.05˝
13.68˝
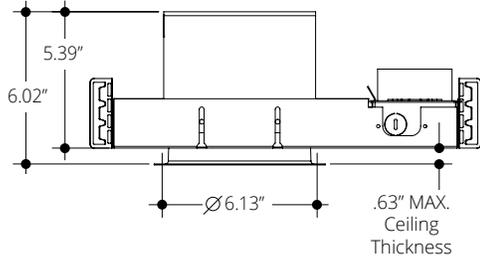
| Lumens | Wattage* |
|--------|----------|
| 750 | 9.4 |
| 1100 | 15.4 |
| 1500 | 21.6 |
| 2000 | 27.2 |
| 3000 | 33.2 |
| 4000 | 45.6 |
| 5000 | 58.5 |
| *All measured at 3000K* | |
| *\*Actual Wattage/Lumens may vary.* | |
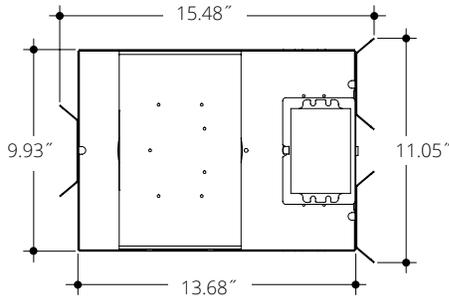
## Photometrics

**Test Number**
PHM-RPT-180223-02
**Model**
V6OVHWWU-2035K
**Lumens**
1975.19
**Efficacy**
75.76
**SC**
0.9938

### Curve

**Polar Candela Distribution**

- Max Cd: 157.5° H
- 0° H
- 90° H
- 22.5° H
- 45° H
- 67.5° H
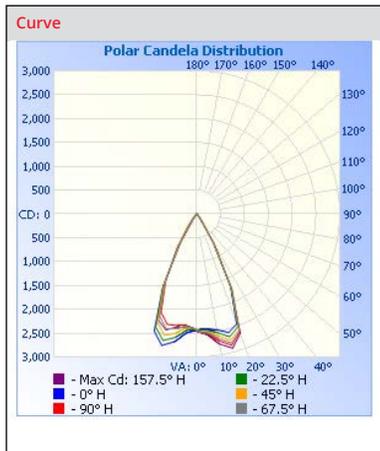
### Cone of Light

| Center Beam fc | Beam Width | |
|------|------|------|
| 1.7 | 844 | 1.6 | 1.4 |
| 3.3 | 224 | 3.1 | 2.8 |
| 5.0 | 97.5 | 4.7 | 4.3 |
| 6.7 | 54.3 | 6.3 | 5.7 |
| 8.3 | 35.4 | 7.8 | 7.1 |
| 10.0 | 34.4 | 9.4 | 8.5 |

### Candela Table

| Degrees Vertical | Candela |
|------|------|
| 0.0 | 2438 |
| 1.0 | 2427 |
| 3.0 | 2412 |
| 5.0 | 2420 |
| 7.0 | 2438 |
| 9.0 | 2456 |
| 10.0 | 2464 |
| 15.0 | 2575 |
| 20.0 | 2450 |
| 25.0 | 1687 |
| 30.5 | 720 |
| 35.0 | 175 |
| 40.0 | 38 |
| 45.0 | 22 |
| 50.0 | 14 |
| 55.0 | 11 |
| 60.0 | 9 |
| 65.0 | 8 |
| 70.0 | 7 |
| 75.0 | 6 |
| 80.0 | 6 |
| 85.0 | 5 |
| 90.0 | 5 |
| 100.0 | 5 |

### Zonal Lumen Summary

| Zone | Lumens | % Luminaire |
|------|------|------|
| 0-30 | 1701.5 | 86.1 |
| 0-40 | 1880.3 | 95.2 |
| 0-60 | 1921.7 | 97.3 |
| 60-90 | 19.7 | 1 |
| 70-100 | 16.7 | 0.8 |
| 90-120 | 14.8 | 0.7 |
| 0-90 | 1941.4 | 98.3 |
| 90-180 | 33.8 | 1.7 |
| 0-180 | 1975.2 | 100 |

## VANTAGE LIGHTING vHealth™ 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 |