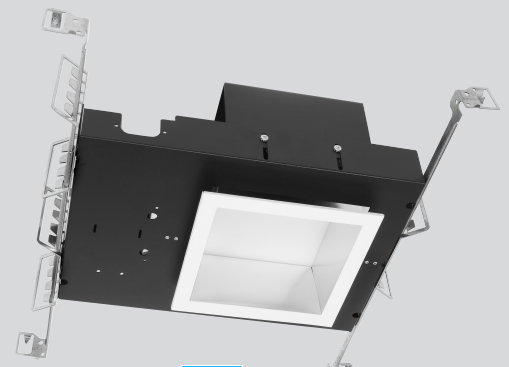


| | |
|-------------|------|
| Catalog # | Type |
| Project | |
| Notes | Date |
| Prepared by | |

6"x6" LED/vHealth™

LED 6"x6" Lensed Square Downlight, IC Rated, 750-5000 Lumens



Description

Designed for modern healthcare facilities. 6 inch LED recessed, IC-rated 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 5000 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) 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 featuring auto reset thermal protection and 0-10V dimming to 1% of light output with flicker free operation. Optional Triac (phase control) dimming driver 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. IC rated. 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. ENERGY STAR® certified product.

Warranty

5-year limited warranty on LED module and driver.

Ordering Information

EXAMPLE: SQVIC66EVH1-4030K-LSQ6611P-SGC-AM

| Series/Source | Voltage | Lumens | Kelvin | Reflector | Lens | Finish | Options |
|---|---|---|---|-----------|---|----------------------------|---|
| SQVIC66EVH 6"x6" enclosed, square IC Rated | U ¹ - 120V-277V 1 - 120 Volts | -07 - 750 -11 - 1100 -15 - 1500 -20 - 2000 -30 - 3000 -40 ³ - 4000 -50 ^{3,4} - 5000 | 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K | LSQ661(X) | 1 1P 1FR 1FRP 4 4P 2D 4D 6D 8D | SCL-AM SGC-AM WHT-AM | DL-2 ² LDE1 ³ TDM ⁴ DTD ⁶ EM-17 ⁷ EM-20 ⁸ HCR ¹⁰ PF |

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 for use up to 5000 lumens.
- EM20 for use above 5000 Lumens.
- HCR not available above 2000 Lumens.

Lens Options

- 1 - Clear Glass
- 1P - Clear Polycarbonate
- 1FR - Frosted Glass
- 1FRP - Frosted Polycarbonate
- 4 - Prismatic Glass
- 4P - Prismatic Acrylic

Special Optics

- 2D - Optical Diffuser - 20°
- 4D - Optical Diffuser - 40°
- 6D - Optical Diffuser - 60°
- 8D - Optical Diffuser - 80°

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

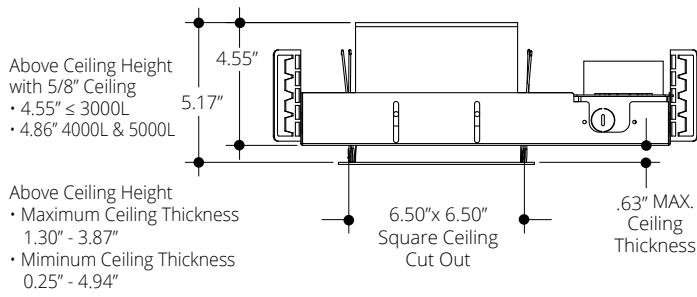
- DL-2² - Lutron 2 wire Hi-Lume Dimming Driver.
- LDE1³ - Lutron EcoSystem Fade-to-Black™.
- TDM⁴ - Triac Dimming Driver.
- DTD⁶ - 0.1% dimming.
- EM-17⁷ - Emergency battery back-up. Remote test button & indicator Light.

- EM-20⁸ - Emergency battery back-up. Remote test button & indicator Light.
- HCR¹⁰ - 90 CRI (minimum).
- PF - Polished Flange.

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.

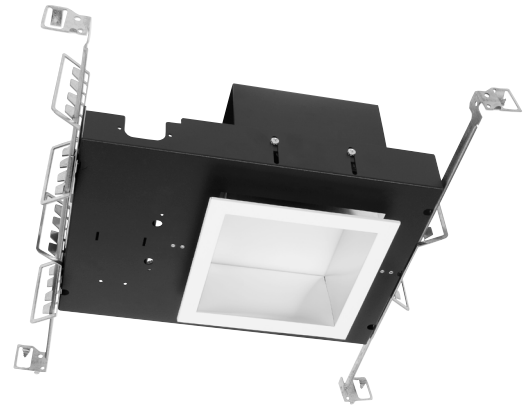
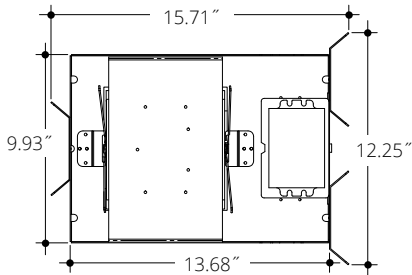
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Ceiling Cut Out 6.50" x 6.50"



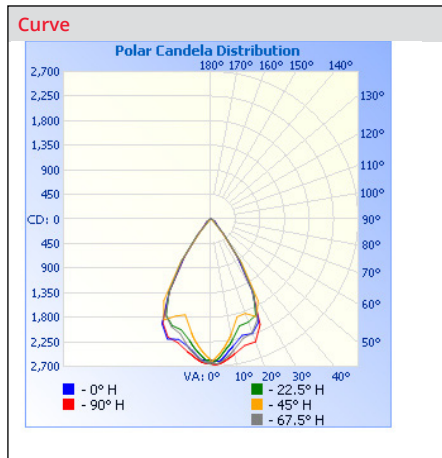
| Lumens | Wattage* |
|--------|----------|
| 750 | 9.4 |
| 1100 | 15.4 |
| 1500 | 21.6 |
| 2000 | 27.2 |
| 3000 | 33.2 |
| 4000 | 45.6 |
| 5000 | 58.5 |

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



Photometrics

Test Number
 PHM-RPT-180223-04
Model
 SQVIC66EVHU-3035K
Lumens
 2571.65
Efficacy
 69.90
SC
 0.9960



Cone of Light

| | Center Beam fc | Beam Width | |
|------|----------------|------------|------|
| 1.7 | 904 | 2.1 | 2.1 |
| 3.3 | 240 | 4.0 | 4.0 |
| 5.0 | 104 | 6.1 | 6.1 |
| 6.7 | 58.2 | 8.2 | 8.2 |
| 8.3 | 37.9 | 10.1 | 10.1 |
| 10.0 | 26.1 | 12.2 | 12.2 |

Candela Table

| Degrees Vertical | Candela |
|------------------|---------|
| 0.0 | 2612 |
| 1.0 | 2589 |
| 3.0 | 2607 |
| 5.0 | 2556 |
| 7.0 | 2470 |
| 9.0 | 2398 |
| 10.0 | 2360 |
| 15.0 | 2206 |
| 20.0 | 2230 |
| 25.0 | 2077 |
| 30.5 | 1509 |
| 35.5 | 842 |
| 40.5 | 369 |
| 45.0 | 173 |
| 50.0 | 118 |
| 55.5 | 101 |
| 60.5 | 85 |
| 65.5 | 41 |
| 70.0 | 14 |
| 75.0 | 10 |
| 80.0 | 9 |
| 85.0 | 8 |
| 90.0 | 6 |
| 100.0 | 6 |

Zonal Lumen Summary

| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 1719.7 | 66.9 |
| 0-40 | 2295.3 | 89.3 |
| 0-60 | 2480.0 | 96.4 |
| 60-90 | 46.3 | 1.8 |
| 70-100 | 26.4 | 1 |
| 90-120 | 19.6 | 0.8 |
| 0-90 | 2626.3 | 98.2 |
| 90-180 | 45.3 | 1.8 |
| 0-180 | 2571.6 | 100 |

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 | | |