

Catalog #	Type
Project	
Notes	Date
Prepared by	



6" Round vHealth® Behavioral Health

LED 6" Lensed Downlight, 750-7000 Lumens



Description

Designed for modern healthcare facilities. 6 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

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 vandal resistant fasteners, securing reflector flange tightly to finished hard 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≥50,000hours). Standard driver features 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 other dimming drivers available. Optional BioSync™ control technology.

Features

This Behavioral Health downlight is engineered with anti-ligature design, as well as vandal resistant fasteners below the ceiling plane, and shatter resistant lens in conformance with IK-10 standards.

Optics

LED module features soft white acrylic window, obscuring LED's, preventing pixelation while producing soft uniform illumination. Reflectors are one piece spun from heavy gauge aluminum and are self flanged. Reflectors are treated with antimicrobial finish, producing even illumination across the beam spread free of streaks, striation or hotspots with superior cutoff and brightness control..

Controls

Compatible with a wide range of controls systems depending on driver selected. These vHealth downlights are compatible with open source architecture allowing for the use of a wide variety of sensors and the ability to control individual or grouped luminaires through wireless communications, dependent on controls prescribed.

Listings

Manufactured and Listed to UL 1598, ETL and CSA standards. Damp rated, wet location listed under covered ceiling. Ambient operating temperature range: -20oC to 30oC. All photometric tests performed by accredited NVLAP facility, and in accordance with IESNA LM-79 2008 procedures. Optional IP65 provides dust and water protection below ceiling plane in certain configurations.

Warranty

5-year limited warranty on LED module and driver.

Ordering Information

EXAMPLE: V6EVHVRU-1130K-VBHL6011P-SGC-AM

Series/Source	Voltage	Lumens	Kelvin	Reflector	Lens	Finish	Options
V6EVHVR 6" round	U¹ - 120V-277V 1 - 120 Volts 2 - 277 Volts	-07⁸ - 750 -11⁸ - 1100 -15⁸ - 1500 -20⁸ - 2000 -30 - 3000 -40³ - 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 BSC - BioSync™ Color ⁹	VBHL601 Medium Distribution	1FRP 1P	SCL-AM SGC-AM WHT-AM	LDE1³ TDM⁴ DTD⁶ EM-17⁷ EM-20⁸ HCR¹⁰ 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 and EM17 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

Lens Options

1FRP - Frosted Polycarbonate
1P - Clear Polycarbonate

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

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

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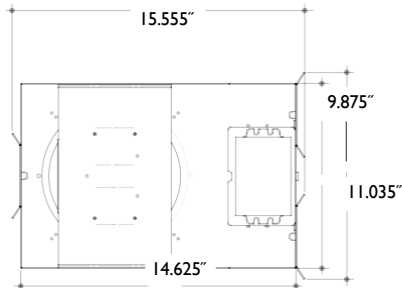
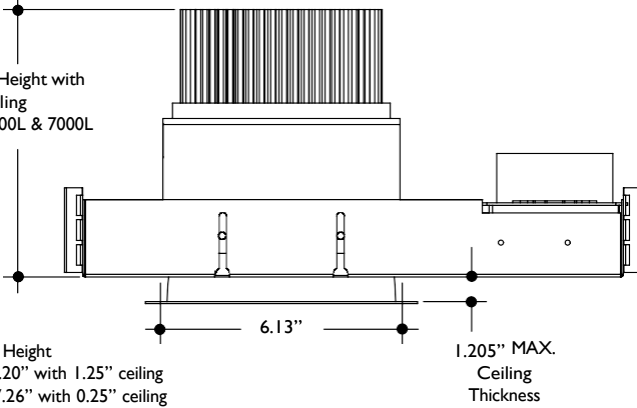
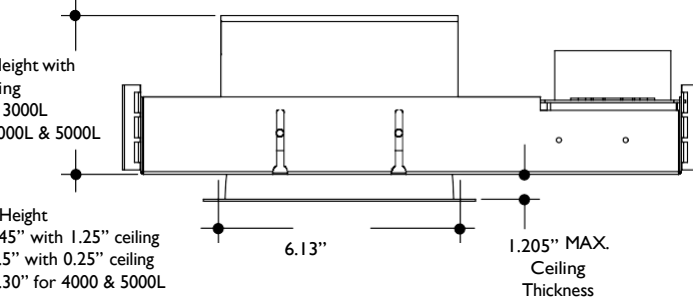
Ceiling Cut Out 6.13"

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



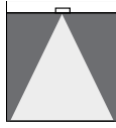
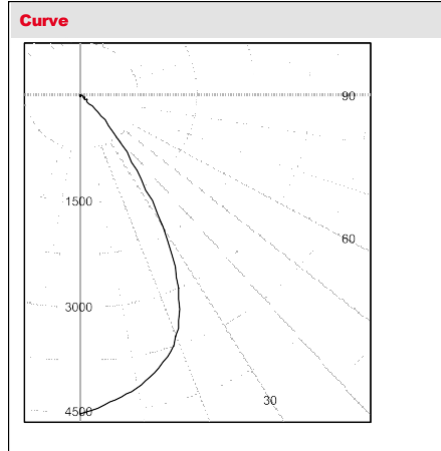
Lumens	Wattage*
750	9.4
1100	15.4
1500	21.6
2000	27.2
3000	33.2
4000	45.6
5000	58.5
6000	60.1
7000	85.3

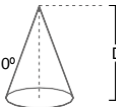
*All measured at 3000K
Actual Wattage/Lumens may vary.



Photometrics

Test Number
LLI-17113-10
Model
V6EVHU-5035K-L6011SCL
Lumens
4095
Efficacy
70.2
SC
0.99

Cone of Light			
			
	Center Beam fc	Beam Width	

Candela Table		
Degrees Vertical	Candela	
0.0	4504	52.5 82
2.5	4465	55.0 74
5.0	4378	57.5 69
7.5	4303	60.0 65
10.0	4221	62.5 64
12.5	4124	65.0 63
15.0	4002	67.5 59
20.0	3646	70.0 55
22.5	3371	72.5 53
25.0	3019	75.0 47
27.5	2631	77.5 28
30.0	2158	80.0 1
32.5	1670	82.5 0
35.0	1279	85.0 0
37.5	960	87.5 0
40.0	658	90.0 0
42.5	428	92.5 0
45.0	253	95.0 0
47.5	139	97.5 0
50.0	96	100.0 0

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