

Leading the way in LED technology for industrial and hazardous applications

Cl. I, Div. 2, Groups A, B, C, D

UL Listed & CSA Certified
Wet Location
NEMA 4X (Pendant Mount)
NEMA 3X (Wall and Ceiling Mount)

The Vaporgard LED Family:

V2LC/UNV - Cool White Color Temperature

The V2LC/UNV Luminaire provides uniform crisp, white light and is suitable for lower mounting heights, confined spaces, tunnels, or utility rooms. Using four high power, high brightness LED arrays, this fixture can deliver similar light levels to 150 watt incandescent.



V2LW/UNV - Warm White Color Temperature

The V2LW/UNV Luminaire provides similar benefits as the cool white version, but with a color rendering more consistent with a warm incandescent or HPS lamp source. Perfect for situations where Vaporgard LED will be installed next to a warmer color light source.

DC Power Supply - Available for Applications Requiring DC Power

For applications with DC power requirements such as solar or back-up battery. The DC power supply is suitable for 12VDC through 24VDC.

Applications:

Vaporgard LED Luminaires are ideal for use in:

- Wet, dirty, dusty, corrosive, hot/cold conditions
- Hazardous locations
- Confined space or low ceiling areas, such as tunnels, utility rooms, over doorways or entries, top of landings, etc.
- Areas requiring frequent on/off of lights
- Areas where maintenance is difficult or challenging
- Areas requiring shatter-protected products, such as food processing facilities
- Outdoor wall or ceiling mounted area illumination
- Low mounting heights

Vaporgard LED Benefits:

Enhance safety and productivity

- Instant illumination and restrike
- T4A rated at 55°C (AC unit only), T5 at 40°C - safely operate in the most hazardous locations
- Cold temperature operation; no warm-up time
- Multi-die LED arrays improve reliability
- Lightweight, low profile, and cool surface temperatures
- Driver with internal fusing for branch circuit protection

Reduce operation and maintenance costs

- 25 watt LED system can save up to 85% in energy costs
- 50K hours rated life can provide >10 years of maintenance-free lighting
- No mercury or hazardous chemicals - eliminates disposal concerns
- Mounts to existing Vaporgard mounting modules

Reliable performance in any environment

- Shock- and vibration-resistant
- Teflon coated lens (suffix S896) option for increased safety in food processing facilities
- Low starting temperature: -30°C
- Operating ambient: -40°C to 55°C (High Temperature Option)
- Dark sky compliant

Certifications and Compliances:

- RoHS Compliant
- NEC and CEC**
- Class I, Division 2, Groups A, B, C, D
- NEMA 4X, Pendant Mount
- NEMA 3X, Wall and Ceiling Mount
- UL Standards**
- IP66
- UL 844
- UL1598A Marine, Pendant Mount
- UL1598 Wet Locations, Wall and Ceiling Mount
- CSA Standard**
- CSA C22.2 No. 137

LED Array:

- (4) High brightness LED arrays
- Cool white (5600K), CRI 65
- Warm white (3000K), CRI 82
- 70% lumen maintenance (L₇₀) at 50K hours
- Junction temperature T_j <90°C ensures long life
- Array complies with requirements of IEC LM80

LED Drivers:

- Constant current regulated power supply
- 90VAC - 264VAC, 277VAC, 50/60Hz
- Internal fusing
- Active power factor correction, >0.9
- Low harmonic distortion, <20%
- Low inrush current, <20 amps
- EMC compliant to 47CFR, Part 2, Part 15
- 12VDC/24VDC option available

Options:

Description	Suffix
Frosted lens reduces glare in applications where the user may have direct visual contact with the light source	S891
Teflon coating on lens provides additional shatter protection for applications in food and beverage facilities.....	S896
High temperature option allows operation up to 55°C ambient temperature (AC unit only).....	S902

Electrical Ratings:

	Series			
	V2LC/UNV	V2LW/UNV	V2LC/DC	V2LW/DC
Voltage	90-264VAC, 277VAC	90-264VAC, 277VAC	12-24VDC	12-24VDC
Input Power (Watts)	25	25	25	25
Input Current	0.23 / 0.10	0.23 / 0.10	2.1 / 1.0	2.1 / 1.0
Power Factor	>0.9	>0.9	N/A	N/A
THD (I) (%)	<20%	<20%	N/A	N/A
Maintained Lumens	1600	1400	1600	1400
Efficacy, LPW	64	56	64	56
Color Temperature	5600K	3000K	5600K	3000K

Vaporgard™ LED Series Luminaires

Cl. I, Div. 2,
Groups A, B, C, D

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2L

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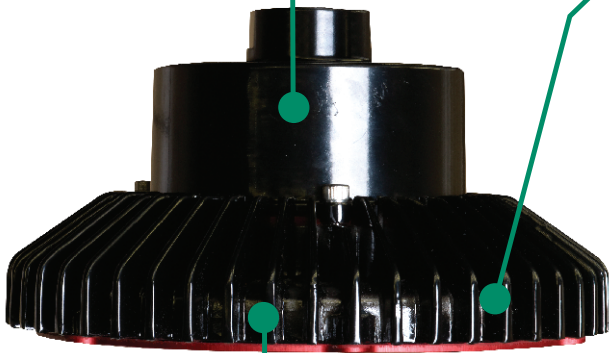
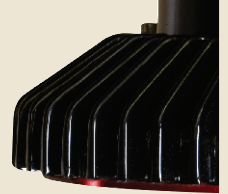
Installation and replacement made simple

This contractor-friendly design is ideal for both retrofit and new construction applications. These luminaires are installed using the same wall and ceiling mounting modules as existing Vaporgard fixtures.



Safe, reliable heat transfer

Heat sink - engineered to safely and effectively remove heat from the LED and the driver, while providing durable protection for the optical elements of the fixture. This unique design increases overall flexibility of the luminaire by reducing both driver temperature and junction temperature of the LED arrays.

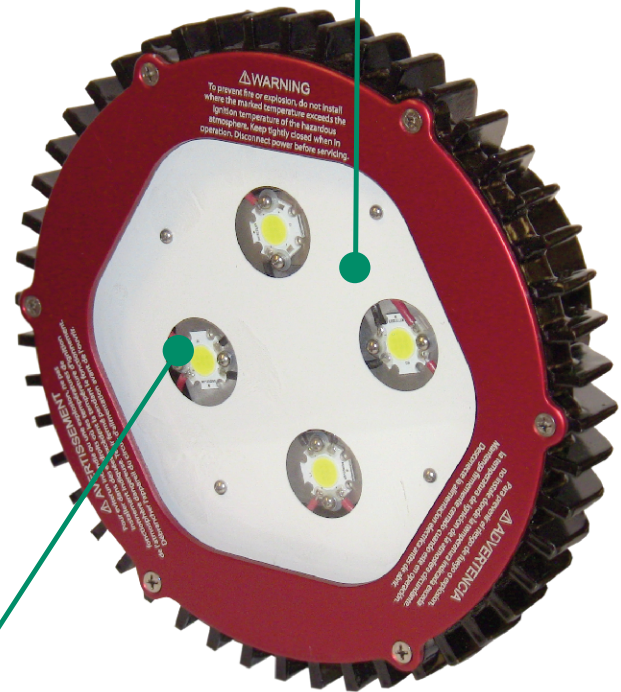


Easy Maintenance and Component Replacement

The compact and modular design of the Vaporgard LED allows for both easy component replacement and future upgrade.

Unique domeless, low profile design

Unique domeless, low profile design for low mounting heights and confined spaces where incandescent and HID based luminaires are too large to fit the mechanical envelope required.



LED Arrays

Four high power multi-die LED arrays provide instant on and full illumination throughout specified operational temperature range. Since LEDs contain no filament or lamp, the fixture can survive even the harshest environmental conditions and exposure to high, repeated vibration.



2L

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NEMA 3X (Wall and Ceiling Mount)**Ordering Information:**

Mounting Style	Cool White		Warm White	
	AC Drive	DC Drive	AC Drive	DC Drive
1/2" Pendant	V2LCA1/UNV	V2LCA1/DC	V2LWA1/UNV	V2LWA1/DC
3/4" Pendant	V2LCA2/UNV	V2LCA2/DC	V2LWA2/UNV	V2LWA2/DC
1" Pendant	V2LCA3/UNV	V2LCA3/DC	V2LWA3/UNV	V2LWA3/DC
3/4" Wall with Junction Box	V2LCHBF2/UNV	V2LCHBF2/DC	V2LWHBF2/UNV	V2LWHBF2/DC
1/2" Ceiling	V2LCHF1/UNV	V2LCHF1/DC	V2LWHF1/UNV	V2LWHF1/DC
3/4" Ceiling	V2LCHF2/UNV	V2LCHF2/DC	V2LWHF2/UNV	V2LWHF2/DC
3/4" Wall	V2LCHT2/UNV	V2LCHT2/DC	V2LWHT2/UNV	V2LWHT2/DC
Adapter Only*	V2LCHR/UNV	V2LCHR/DC	V2LWHR/UNV	V2LWHR/DC

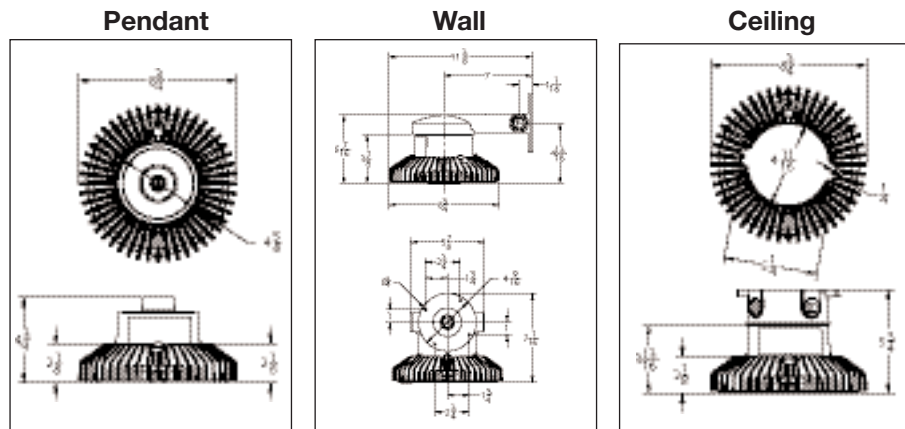
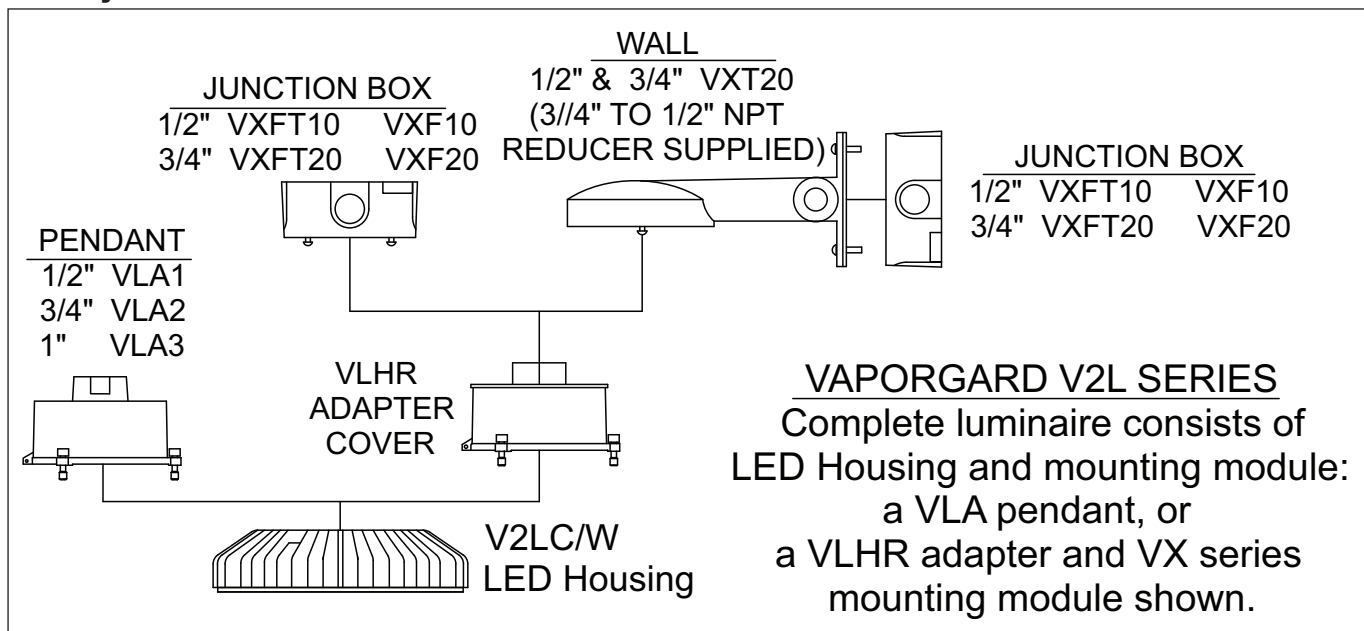
*For use when wall mount or ceiling mount box is already installed.

Weights:

Luminaire & Mounting Module Weight	Lbs.
Pendant Mount	5.7
Ceiling Mount	6.8
Wall Mount	7.9

Ambient Temperature:

	Max. Temp. °C	Temp. Rating
V2L/UNV	40	T5
V2L/UNV S902	55	T4A
V2L/DC	40	T5

Dimensions:**Family Tree:**

Vaporgard™ LED Series Luminaires

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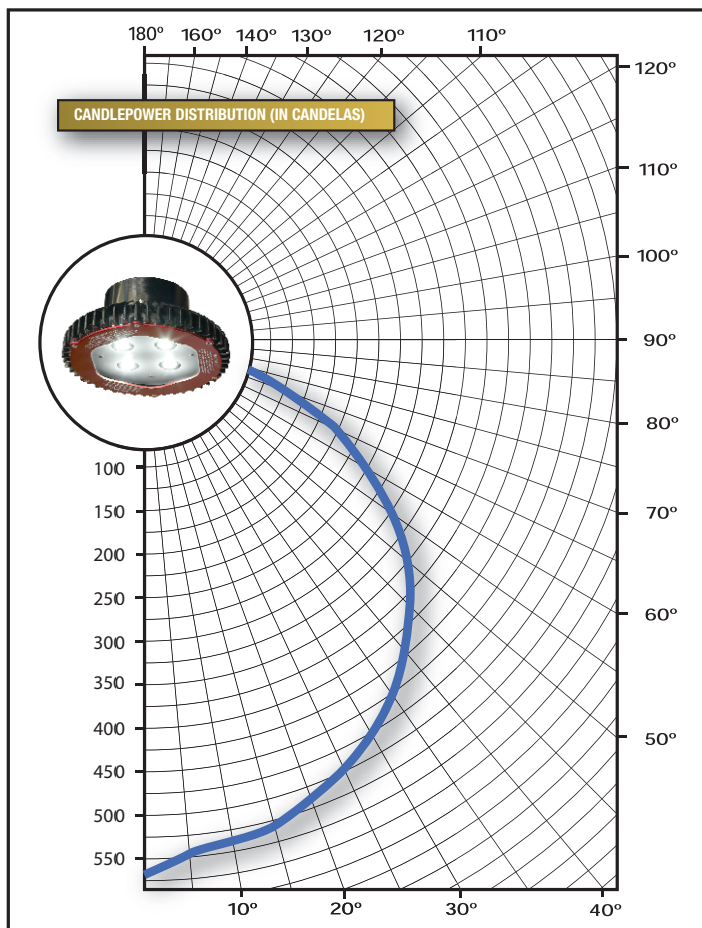
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Photometric Data:

Vaporgard™ LED (25 Watt)

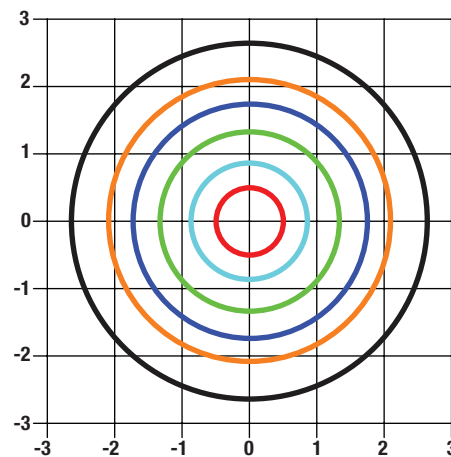


CANDELAS ZONAL LUMENS

VERTICAL ANGLE	FRONT SIDE	ZONE	WITH LUMENS	% LUMEN
0	564	0-10	52	3%
5	545	10-20	150	10%
15	530	20-30	230	15%
25	500	30-40	282	18%
35	452	40-50	297	19%
45	385	50-60	269	17%
55	301	60-70	194	12%
65	197	70-80	85	6%
75	80	80-90	6	0%
85	1	90-100	0	0%
90	0	100-120	0	0%
Total			1565	100%

DISTANCE TO MOUNTING HEIGHT

Isofootcandle chart shows illuminance in foot-candles at ground level



ISOFOOTCANDLE CHART

Footcandle Values for Isofootcandle Lines



Mtg. Hgt.	A	B	C	D	E	F
6'	10.00	5.00	2.00	1.00	0.50	0.20
8'	5.62	2.81	1.13	0.56	0.28	0.11
10'	3.60	1.80	0.72	0.36	0.18	0.07
12'	2.50	1.25	0.50	0.25	0.13	0.05
14'	1.84	0.92	0.37	0.18	0.09	0.04