ESP

Enhancing Safety + Productivity

25W LED REPLACES 100-200W INCANDESCENT

Vaporgard™ LED Series

Leading the way in LED technology for industrial and hazardous applications

COOPER Crouse-Hinds

High-performance, high-brightness Vaporgard™ LED luminaire – brilliantly combining safety, reliability and energy efficiency.

The world's most demanding environments need smart new lighting ideas and innovative approaches to enhancing safety. You need lighting that cuts the overall cost of ownership. Lighting that improves energy efficiency and lives up to ever-escalating environmental standards.

You need all of this innovation from a single source. It could only be: Cooper Crouse-Hinds®.

Introducing ESP solutions.

For more than 100 years, Cooper Crouse-Hinds has exceeded customer expectations when it comes to new ideas and technological advancements. Today, as the electrical industry's global leader for hazardous environments, we continue to reach beyond the expected – especially with our commitment to **ESP (Enhancing Safety & Productivity)**.

Time to look at LEDs in a whole new light.

Dramatic advances in LED technology have broadened the applicability of this type of illumination, creating an exciting new option for hazardous, industrial and other highly demanding locations. Compared to traditional light sources, LED can deliver longer life, enhanced energy efficiency, greater eco-friendliness, lowered maintenance demands and equal or better quality of light.

Innovative applications for this exciting technology are a natural fit for us, and LED lighting solutions have rapidly become an integral part of our vision.

Traditional Incandescent	Vaporgard LED
	
	• 85% reduction in energy consumption costs • 20X the life of incandescent lamps • 50% lower profile than incandescent luminaires

Application

You're faced with high energy and maintenance costs related to your current incandescent lighting fixtures. In addition, you're worried about upcoming legislation to ban incandescent lighting fixtures in your jurisdiction. You need a solution which will not only reduce operating expenses, but also replace your current incandescent fixtures prior to government regulations going into effect.

Old Way:

Replace your current incandescent fixtures with a higher wattage luminaire that falls outside of the power range of the pending government regulations on incandescent lamps. Light output has increased, however, energy costs have gone up 30%, maintenance costs are still an issue, and future regulations may require another change.

New Way:

Install Vaporgard LED luminaires to realize an 85% reduction in energy consumption and slash maintenance costs associated with lamp replacement. The Vaporgard LED is designed to easily adapt to existing mounting modules for ease of installation. That, along with a 20X longer life, makes Vaporgard LED an ideal replacement for incandescent light sources.

Benefit:

Realize $50K per year in energy and maintenance savings by installing Vaporgard LED luminaires. Qualify for rebate incentives with local municipalities and federal programs. Take advantage of the robust, low profile design by installing in those "tough to get to" locations.

COOPER Crouse-Hinds

ESP Enhancing Safety + Productivity

The Vaporgard™ LED Series is a perfect example of Cooper Crouse-Hinds innovation.

Enhance safety and productivity
Cut overall cost of ownership
Reduce energy consumption
Meet rising environmental and regulatory standards

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

Heatsink - 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.

Vaporgard™ LED Series

ORDERING INFORMATION

Mounting Style	Cool White		Warm White	
	AC Drive	DC Drive	AC Drive	DC Drive
½" Pendant	V2LCA1/UNV	V2LCA1/DC	V2LWA1/UNV	V2LWA1/DC
¾" Pendant	V2LCA2/UNV	V2LCA2/DC	V2LWA2/UNV	V2LWA2/DC
1" Pendant	V2LCA3/UNV	V2LCA3/DC	V2LWA3/UNV	V2LWA3/DC
¾" Wall with Junction Box	V2LCHBF2/UNV	V2LCHBF2/DC	V2LWHBF2/UNV	V2LWHBF2/DC
½" Ceiling	V2LCHF1/UNV	V2LCHF1/DC	V2LWHF1/UNV	V2LWHF1/DC
¾" Ceiling	V2LCHF2/UNV	V2LCHF2/DC	V2LWHF2/UNV	V2LWHF2/DC
¾" 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

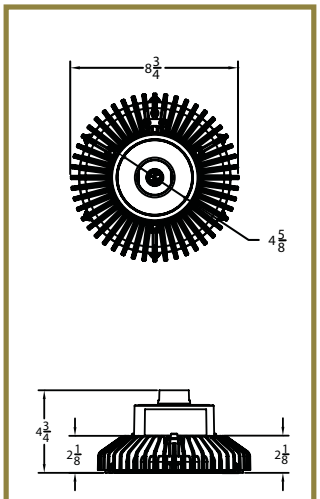
LUMINAIRE & MOUNTING MODULE WEIGHT	LBS.
Pendant Mount	5.7
Ceiling Mount	6.8
Wall Mount	7.9

AMBIENT TEMPERATURE

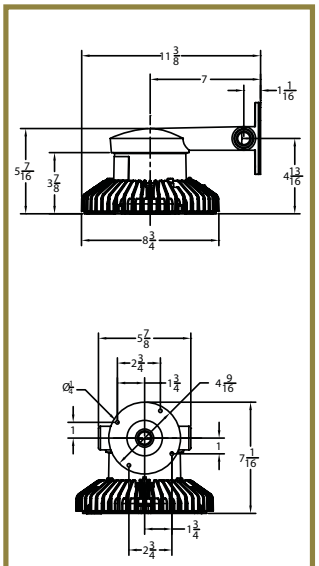
	MAX TEMP. °C	TEMP. RATING
V2L/UNV	40	T5
V2L/UNV S902	55	T4A
V2L/DC	40	T5

DIMENSIONS

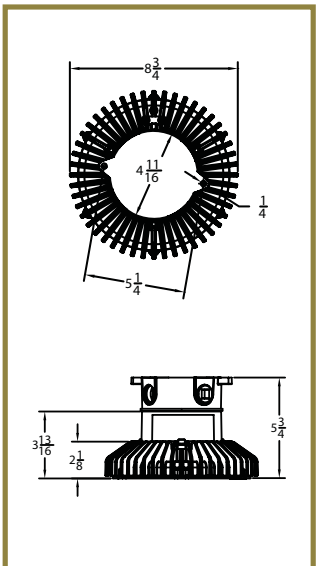
PENDANT



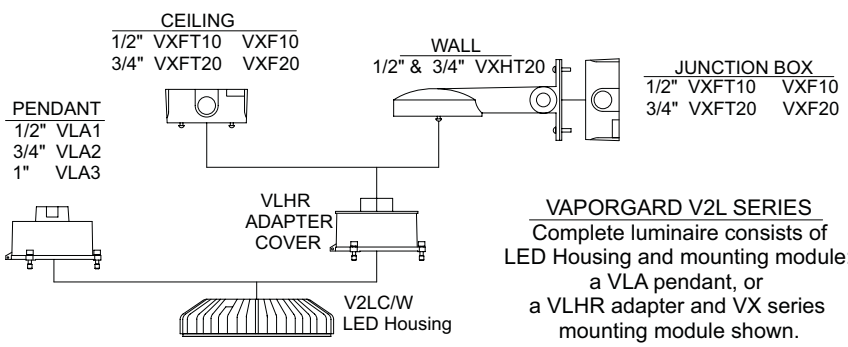
WALL



CEILING

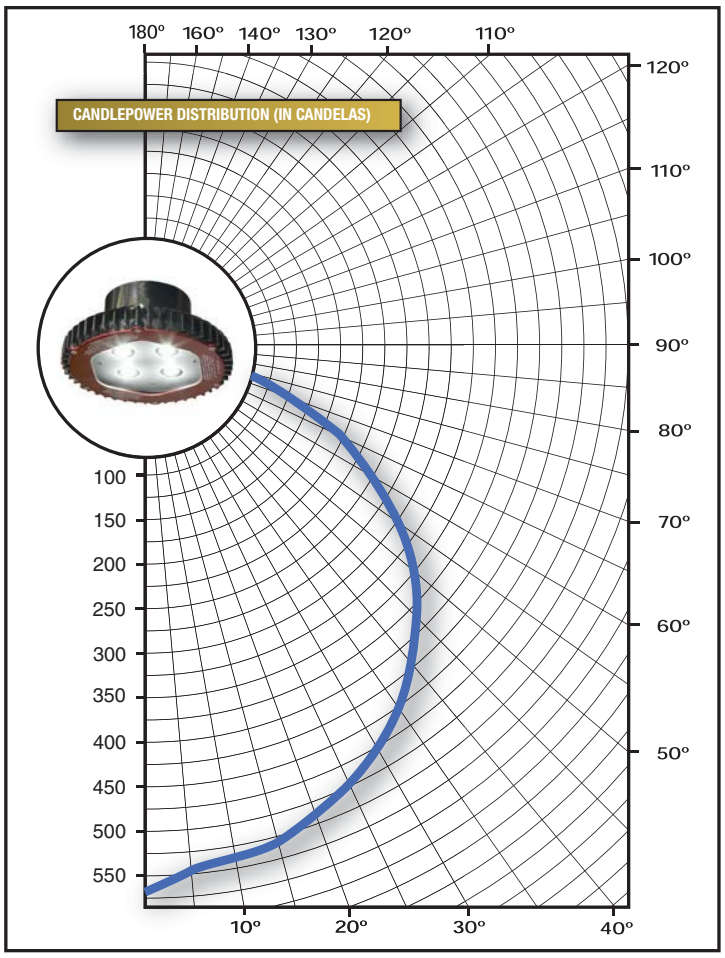


FAMILY TREE



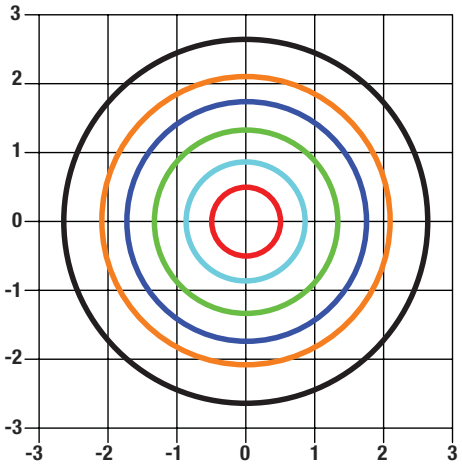
VAPORGARD V2L SERIES
Complete luminaire consists of LED Housing and mounting module:
a VLA pendant, or
a VLHR adapter and VX series mounting module shown.

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

A B C D E F

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