



The VARI*LITE® VL2416™ Wash luminaire is based on the Emmy™ Award winning VL5™ luminaire design. This powerful luminaire uses a 1200W arc lamp and comes standard with a zoomable beam spreading mechanism. An optional collimator/counterweight is available for applications requiring a fixed, collimated beam.

The innovative DICHRO*TUNE™ radial color changer employs enhanced dichroic color filters to produce smooth, full spectrum color crossfades. An internal douser provides intensity control and strobing.

The VL2416 luminaire features an upper enclosure that houses the control electronics as well as a power factor corrected arc power supply.

The VL2416 luminaire can be controlled from a wide variety of DMX-512 consoles.

VL2416™ Wash

l u m i n a i r e

Programmable Functions

Color:	The DICHRO*TUNE™ radial color changing mechanism features independent cyan, yellow and magenta color control. Smooth, timed color crossfades can occur in as little as 0.35 seconds.
Intensity Control:	An internal douser provides intensity control.
Beam Size Control:	Zoomable beam spreader mechanism. Provides 5° to 55° field in less than 1.2 seconds.
Rotating Lens:	Rotatable, indexable front lens assembly. Accepts standard PAR 64 cover lens. Rotation speed is up to 14 RPM.
Pan & Tilt:	Smooth, time-controlled continuous motion by way of a three-phase stepper motor system.
Range:	Pan - 540°, Tilt - 270°.
Accuracy:	0.3° resolution.

Description

Source:	1200 Watt Short Arc Lamp	Color Temperature	5600°K
		CRI	80
Output:	16,500 lumens		
Power Requirements:	Standard AC power distribution from 180–264 VAC, 50/60 HZ. The unit requires 7 to 12 A depending on the AC supply voltage.		
Reflector:	Eight-inch glass dichroic cold mirror reflector.		
Operational Temperature:	-20° to 113°F (-29° to 45°C).		
Cooling:	Forced air cooling.		
Control:	Completely compatible with a wide variety of DMX-512 consoles.		
Mounting Position:	The VL2416™ wash luminaire can be mounted and operated in any orientation.		
Spacing:	Hangs on 24.0 inch (61 cm) centers.		
Weight:	69 lbs (31.3 kg).		

Accessories

71.2528.1200	1200 Watt Short Arc Lamp
22.9620.0194	Safety Cable Assembly
55.6840.0001	Truss Hook, Mega-Clamp, Round and Square
55.6841.0001	Truss Hook, Mega-Claw for 2" Round Tube
22.9661.0409.01	Collimator/Counterweight Assembly



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Specifications

The unit is an integrally designed, remote-controlled, motorized wash luminaire. The head, yoke and enclosure housings are constructed of aluminum alloy and steel for lightweight strength and durability. Virtually silent fans provide forced-air cooling for internal components. The rear cap is hinged, providing easy access to the lamp for replacement.

A single AC input cable along with two, five-pin DMX-512 compatible connectors (in and through) are provided. The unit can be controlled by any VARI*LITE console or a wide variety of DMX-512 consoles. In addition, a built-in Master/Slave function enables operation of multiple luminaires without a control console.

Each unit is equipped with multiple on-board processors providing diagnostic and self-calibration functions as well as internal test routines and software update capabilities.

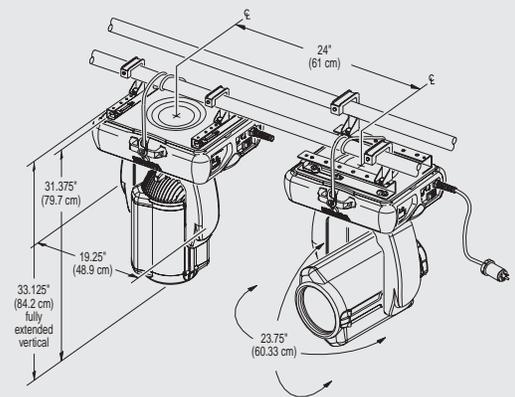
The unit contains two independent three-phase stepper motors to provide movement of the head through 540° in the horizontal plane (pan) and 270° in the vertical plane (tilt). The pan and tilt mechanisms are belt-driven, providing positional resolution and repeatability of 0.3° on either axis.

Three radial color changers holding 16 panels of dichroic media of a typical color set: cyan, yellow and magenta enable full spectrum color changes. Three motors provide independent drive of each color set. Positional accuracy of the dichroic filters with respect to the beam is ensured through specialized motor control software. The color changers are capable of movement from fully open to fully closed in less than 0.35 seconds.

The unit contains a dimmer/strobe mechanism holding 16 black, aluminum dimmer panels that intercept the beam to provide a continuously variable dimming range. The dimmer/strobe mechanism is capable of movement from fully open to fully closed in less than 0.10 seconds and provides a dimmable strobe rate of up to 6Hz.

The front lens is user replaceable and configured with a continuously rotatable, indexable mechanism.

The unit is ETL and ETLc certified and CE-marked. Exterior finish is black.



VL2416 Photometric Data with 1200 Watt Short Arc Lamp*

Diffusion	CANDELA (cd)	BEAM ANGLE (DEGREES)	BEAM DIAMETER TN ¹	FIELD ANGLE (DEGREES)	FIELD DIAMETER TN ¹
Beam Spreader Mechanism Removed	5,800,000	2.0	.035	5.5	.096
Mechanism at full spot	1,960,000	4.0	.070	8.5	.149
Mechanism at 25% flood	440,000	10.0	.175	18.0	.317
Mechanism at 50% flood	148,000	18.5	.326	31.0	.555
Mechanism at 75% flood	72,000	27.0	.480	45.0	.828
Mechanism at full flood	43,200	33.5	.602	55.0	1.041

¹ Multiply distance by Tn to determine coverage.

To calculate center beam Illuminance (I), at a specific distance (D): $I = \frac{cd}{D^2}$
 — if (D) is in feet, (I) is in foot candles
 — if (D) is in meters, (I) is in lux

* Note:

All data taken with seasoned light source at 20 hours of life.
 Fixture output = 16,500 lumens with beam spreader in place.

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Express yourself.

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