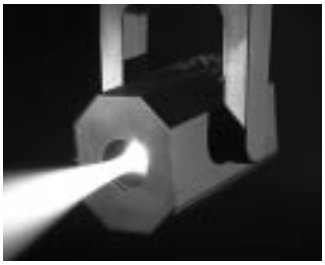
VL2C™

spot luminaire



The VARI✻LITE® VL2C™ spot luminaire features a 600W HTI source for a bright 6100˚K color temperature.

The VL2C spot luminaire incorporates the DICHRO✻WHEEL™ dichroic color changing system and features the VARI✻IMAGE™ system, allowing a series of up to nine different images to be accessed in any order. Custom and standard laser-etched gobo images are available on either dichroic glass or dark-mirror blanks.

The VL2C luminaire is a Series 200™ product, and can be controlled by any VARI✻LITE console.

Programmable Functions

COLOR MECHANISM:	DICHRO✻WHEEL dichroic color changer features more than 120 colors. Color changes occur in less than 0.3 second.
COLOR CORRECTION:	Selectable internal dichroic correction filter.
INTENSITY CONTROL:	Mechanical dimmer provides smooth full-field control at all light levels. Blackout time of 0.5 second.
BEAM SIZE CONTROL:	Continuously variable beam angle from 4˚ to 22˚.
PATTERNS AND GOBOS:	Nine interchangeable gobos with custom patterns available. Gobo changes occur in 0.1 second.
EDGE AND PATTERN FOCUS:	Variable beam focus softens edges of gobos or spots.
PAN AND TILT:	Smooth, continuous motion is controlled by a digital servo system over a 240:1 speed range.
RANGE:	Pan - 360˚, Tilt - 270˚.
MAX VELOCITY:	120˚ per second.
ACCURACY:	0.3˚ resolution.

Description

SOURCE:	HTI® 600W OSRAM metal halide arc lamp, 600W, 6100˚K.
POWER REQUIREMENTS:	85 to 130 VAC, or 170 to 260 VAC, 50/60 Hz, 7 to 14A depending on the line voltage (approximately 900W).
REFLECTOR:	Cold mirror coated glass. The source may be adjusted in the reflector to peak or flatten the projected beam field.
OPERATIONAL TEMPERATURE:	0˚ to 120˚F (-18˚ to 49˚C).
COOLING:	Forced air.
CONTROL:	Completely compatible with the VARI✻LITE automated lighting system, featuring the Artisan®Plus or mini-Artisan®2 control consoles.
SPACING:	Hangs on 22 in. (560 mm) centers.
WEIGHT:	58 lbs (27 kg).

Accessories

71.2527.0001	HTI 600 w/SE-600W Lamp
22.9620.0217	Series 200 Truss Hook
22.9620.0194	Series 200 Safety Cable
22.9637.0084	Noise Shell
22.9637.0074	Sound Baffle
25.7030.0006	6 ft. Series 200 Lamp Cable
25.7030.0012	12 ft. Series 200 Lamp Cable
25.7030.0020	20 ft. Series 200 Lamp Cable
25.7030.0050	50 ft. Series 200 Lamp Cable
25.7030.0100	100 ft. Series 200 Lamp Cable
25.7030.0XXX	Custom Length Series 200 Lamp Cable* *Cannot exceed 100 ft. in length.
20.5009.0002	VL2C luminaire Two-Hole Case
20.5009.0004	VL2C luminaire Four-Hole Case
22.5011.0023	Spare Components Set
22.5011.0011	Spare Assemblies Set

Specifications

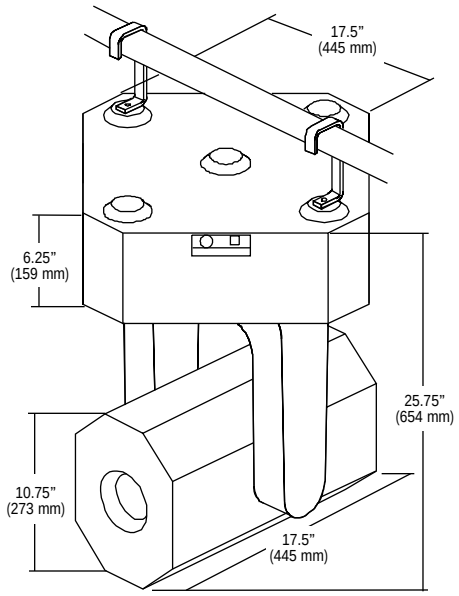
Unit shall be an integrally designed, remote controlled motorized spot luminaire. Head and upper enclosure shall be constructed of aluminum alloy for lightweight strength and shall be forced-air cooled. Head shall be mechanically attached to upper enclosure. The 600W arc source shall be used to produce light beam that shall maintain 6100˚K color temperature. Unit shall be operable in voltages ranging from 85 to 260 volts, 50/60 Hz. Head shall contain intensity, gobo, color, and focus components. Upper enclosure shall contain on-board microprocessor, arc power supply, low voltage supply, and cooling fan.

Head color bulkhead shall contain two rotating, easily removable color filter wheels. Each wheel shall be capable of holding up to fifteen color filters. Gobo wheel shall contain up to nine gobos that shall be easily removed from unit without need of tools or to power down lighting system. Motors shall provide independent drive of color and gobo wheels regardless of direction of movement. Positional accuracy of the filter and gobo frames in reference to beam shall be ensured by the microprocessor, which shall maintain count of all stepper motors and the optical sensor. Unit shall contain mechanical iris dimmer mechanism that shall provide full field dimming and allow for smooth timed fades and fast blackouts.

Mechanical iris shall also provide continuous beam size control for both rapid changes and smooth timed beam angle changes. Compound lens shall be used to allow for variable beam focus and to soften edges of gobos or spots. Rear of luminaire head shall allow for easy access to lamp and beam field adjustment. Cold mirror, coated-glass reflector shall direct beam.

Two enclosed, high torque servomotors shall be provided to permit movement on horizontal plane of 360˚ and on a vertical plane of 270˚. Control cabling shall be run internally and through yoke to prevent tangling. Low voltage motors shall be belt driven, providing positional resolution and repeatability of 0.3˚ on either axis. Manual override under power shall result in no harm to drive mechanism.

Arc power supply shall provide controlled square-wave current, ignition voltage, and operating voltage required by arc lamp. Control cable to luminaire shall provide both AC power and digital control signal. Up to five truss hooks may be inserted into upper enclosure to allow unit to be easily hung from truss or piping. A safety cable shall be provided with unit. Available sound abatement baffle and blanket shall be easily installed as needed. Exterior finish shall be black epoxy coat. Total weight shall not exceed 58 lbs (27 kg).



Photometric Data

VL2C Spot Luminaire - 600W Metal Halide						
LENS SETTING	**DIFFUSION**	**CANDELA (cd)**	**BEAM ANGLE (DEGREES)**	**BEAM DIAMETER TN[1]**	**FIELD ANGLE (DEGREES)**	**FIELD DIAMETER TN[1]**
Flat Field	Spot	365,040	9	.16	18	.32
	Flood	201,240	10	.17	25	.44
Peak Field	Spot	606,710	6	.1	8	.14
	Flood	332,903	17	.3	23	.41

[1] Multiply distance by Tn to determine coverage.

To calculate Illuminance (I) at a specific distance (D): $I = \frac{cd}{D^2}(\cos \theta)$

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