

<u>spot luminaire</u>



The VARI*LITE® VL6™ spot luminaire uses the Philips MSR 400W short arc lamp in a cold mirror reflector. The luminaire is small, lightweight, and virtually silent.

Two wheels for interchangeable dichroic color and gobo selections, and three available lenses make the luminaire completely user-configurable. The VL6 supports a wide variety of "rental access" colors and gobos. "Purchase only" and custom gobos are also available. The VL6 luminaire can be controlled from any VARI*LITE console, or can be controlled from a wide variety of DMX consoles.

Programmable Functions

INTENSITY Full field dimming designed for both smooth timed fades and strobe

effects.

COLOR AND GOBO WHEELS: Two rotating wheels, each providing eleven easily loaded positions for user-selectable color and gobo

choices.

EDGE AND Variable beam focus to soften edges

PATTERN of gobos or spots. FOCUS:

BEAM SIZE CONTROL: A mechanical iris provides continuous beam size control for both rapid

changes and smooth timed beam

angle changes.

PAN AND TILT: Smooth, time controlled continuous

motion by way of a digital servo

system.

RANGE: Pan - 360°, Tilt - 270°.

MAX

VELOCITY: 240° per second.

ACCURACY: 0.3° resolution.

Description

SOURCE: Philips MSR 400 SA, 400W, 6000 K.

POWER AND DIMMING REQUIREMENTS: Lamp power from the APS6[™] module in the Modular Power Distribution Rack at 85 to 265 VAC, 50/60 Hz, 2.5 to 5A depending on line voltage (approximately 400W each). Luminaires are

powered through the Smart Repeater™ processing unit.

REFLECTOR: Precision glass reflector with dichroic cold mirror coating. The

source may be adjusted in the reflector to peak or flatten the

projected beam field.

LENS: Standard is NFOV. Optional MFOV and WFOV lenses are available.

OPERATIONAL TEMPERATURE:

-20° to 120°F (-29° to 49°C).

COOLING: Forced air.

CONTROL: Completely compatible with either the VARI*LITE automated

lighting system, featuring the Artisan®Plus or mini-Artisan®2

control console, or consoles with DMX-512 output.

MOUNTING The VL6 spot luminaire can be mounted and operated in any

POSITION: orientation.

SPACING: Hangs 16.5 in. (419 mm) centers.

WEIGHT: 22 lbs (10 kg).

Accessories

22.5011.0067

71.2528.0400	400W Short Arc Lamp
22.9630.0081 28.9638.0250 21.9638.0191	Standard Lens (NFOV) Optional MFOV Lens Kit Optional WFOV Lens Kit
22.9634.0217 22.9634.0145 22.9634.0161	Series 300™ Truss Hook Series 300 Safety Cable Series 300 Floor Stand
25.7040.0006 25.7040.0012 25.7040.0020 25.7040.0050 25.7040.0100 25.7040.XXX	6 ft. Shielded Series 300 Lamp Cable 12 ft. Shielded Series 300 Lamp Cable 20 ft. Shielded Series 300 Lamp Cable 50 ft. Shielded Series 300 Lamp Cable 100 ft. Shielded Series 300 Lamp Cable Custom Length Shielded Series 300 Lamp Cable* *Cannot exceed 300 ft. in length.
20.9625.0018 20.9625.0024	Series 300 Molded Plastic Six Luminaire Case Series 300 Molded Plastic Work Trunk
22.5011.0063	Spare Components Set

Spare Assemblies Set

Part No: 20.9638.0001

Specifications

The unit shall be an integrally designed, remote controlled motorized spot luminaire. The housing and yoke shall be constructed of aluminum alloy and steel for lightweight strength and shall be forced-air cooled using two virtually silent fans. The rear lamp cap shall be removable, providing ease of access to the lamp for replacement and beam field adjustment.

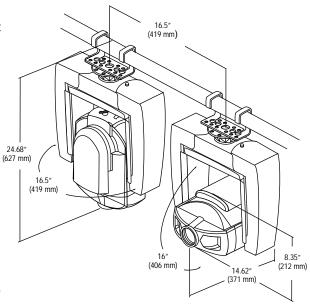
Two enclosed, high torque servomotors shall be provided to permit movement of the head on a horizontal plane of 360° and on a vertical plane of 270°. Control cabling shall be run internally to prevent tangling. The low voltage motors shall be belt driven, providing positional resolution and repeatability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

Each unit shall be equipped with an on-board microprocessor providing diagnostic and self-calibration functions. In the event the luminaire encounters any physical obstruction during calibration, the pan and tilt motors will automatically be disabled preventing damage to the mechanisms.

The unit shall contain two rotating, easily removable filter wheels. Each wheel shall be capable of holding up to eleven, easily changeable, user-selectable dichroic color or gobo choices. Gobos shall be easily removable from unit, without the need to power down or lower the lighting system. Two motors provide independent drive regardless of direction of movement. Positional accuracy of the filter frame in reference to the beam shall be ensured by the microprocessor, which maintains count of both stepper motors and optical sensors that defines the open white positions. Wheels may also spin continuously.

The unit shall contain an aluminum bladed dimmer mechanism that provides full field dimming and allows for smooth timed fades and fast blackouts. A mechanical iris shall provide continuous beam size control for both rapid changes and smooth timed beam angle changes. Variable beam focus shall be provided to soften edges of gobos or spots and provide gobo crossfades. Three easily removable lenses shall be available for luminaire: narrow field of view (NFOV), medium field (MFOV), and wide-field (WFOV) lens

Control cable to luminaire shall provide both digital control signal and power from power supply box. A safety cable shall be provided with unit, and a floor stand shall be available. Exterior finish shall be black epoxy coat. Total weight shall not exceed 22 lbs (10 kg). The unit shall be UL and C-UL listed and CE-marked.



Photometric Data

VL6 Wash Luminaire - 400W Metal Halide							
LENS	DIFFUSION	CANDELA (cd)	BEAM ANGLE (DEGREES)	BEAM DIAMETER TN ¹	FIELD ANGLE (DEGREES)	FIELD DIAMETER TN ¹	
NFOV	Spot	520,000	6	.10	15	.25	
(Peak Field)	Flood	344,000	8	.13	17	.30	
NFOV	Spot	256,000	10	.17	18	.32	
(Flat Field)	Flood	128,000	14	.24	19	.33	
MFOV	Spot	216,064	8	.13	21	.37	
(Peak Field)	Flood	165,120	10	.17	23	.41	
MFOV	Spot	109,312	11	.19	22	.39	
(Flat Field)	Flood	46,272	14	.24	24	.42	
WFOV	Spot	91,520	12	.21	35	.63	
(Peak Field)	Flood	70,400	15	.25	36	.65	
WFOV	Spot	42,240	19	.33	41	.74	
(Flat Field)	Flood	23,616	27	.48	48	.89	

¹ Multiply distance by Tn to determine coverage.

To calculate Illuminance (I) at a specific distance (D): $I = cd (cos \theta)$ D



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