

APPENDIX B.

Technical Specifications

Mechanical

Intensity Control

Full-field dimming designed for both smooth timed fades and strobe effects.

Color/Fixed Gobo Wheels

Two, 12-position wheels, each providing 11 easily loaded positions (and 1 open) for user-selectable color and gobo choices.

Rotating Gobo Wheel

Six-position rotating gobo wheel with five rotatable, indexable gobo positions and one open position.

Zoom Optics

Zoom angle of 2.8 to one. Continuously variable field angle from 13° to 35° (VL2201™) or 19° to 43° (VL2202™). Programmable over a timed range of 2 seconds to 20 minutes.

Edge and Pattern Focus

Variable beam focus to soften edges of gobos or spots.

Beam Size

A mechanical iris provides continuous beam size control for both rapid changes and smooth timed beam angle changes in addition to the zoom optics.

Pan/Tilt

Smooth, time-controlled continuous motion by way of a three-phase stepper motor system. Range: Pan - 540° , Tilt - 270° .

Pan/Tilt Accuracy

0.3° resolution.

Weight

49.5 lbs (22.5 kg) - VL2201™

50 lbs (22.7 kg) - VL2202™

Spacing

Refer to illustration on page 19.

Optical

Source

400 Watt Short-Arc Lamp, 5500°K, 75CRI (VL2201™)

700 Watt Short-Arc Lamp, 5600°K, 80CRI (VL2202™)

Reflector

Precision glass reflector with dichroic cold mirror coating.

Peak field design - VL2201™

Flat field design - VL2202™

Operational

Power Requirements

All VL2200 models are powered through standard AC power distribution and require three amps to twelve amps depending on the AC supply voltage and product model.

All VL2200 models operate from 100-240 +/- 10% VAC, 50/60 Hz

Operational Temperature

-20° to 113°F (-29° to 45°C) *

* The VL2202 model will operate up to 120°F (50°C) at voltages above 100 VAC.

Cooling

Forced air cooling.

Control

Compatible with the VARI**LITE* Virtuoso™ control system and a wide variety of DMX consoles.

Mounting Position

The luminaire can be mounted and operated in any orientation.

Photometric

VL2201 Spot Luminaire - 400W Metal Halide

(All data taken with a seasoned light source at 20 hours of life.)

LENS	CANDELA (cd)	BEAM ANGLE (degrees)	BEAM DIAMETER TN*	FIELD ANGLE (degrees)	FIELD DIAMETER TN*
NFOV (Peak Field)	556,000	5.0°	.087	13.0°	.228
NFOV (Flat Field)	369,600	5.5°	.096	15.5°	.272
MFOV (Peak Field)	128,800	9.5°	.166	23.5°	.416
MFOV (Flat Field)	98,400	12.0°	.210	29.0°	.517
WFOV (Peak Field)	86,000	13.0°	.228	31.0°	.555
WFOV (Flat Field)	52,400	19.0°	.335	34.5°	.621

* Multiply throw distance by Tn to determine coverage.

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

VL2202 Spot Luminaire - 700W Metal Halide

(All data taken with a seasoned light source at 20 hours of life.)

LENS	CANDELA (cd)	BEAM ANGLE (degrees)	BEAM DIAMETER TN*	FIELD ANGLE (degrees)	FIELD DIAMETER TN*
NFOV	297,000	15.0	.263	18.5	.326
MFOV	104,000	25.0	.443	30.5	.545
WFOV	50,000	34.5	.621	42.5	.777

* Multiply throw distance by Tn to determine coverage.

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