APPENDIX B.

Technical Specifications

Mechanical

Zoom Optics

Continuously variable field angle in imaging range from 19° to 36°, super zoom of field to 70° programmable over a timed range of 2 seconds to 20 minutes.

Color Mixing

Fully crossfading CYM color system.

Diffusion

Field or gobo can be continuously and smoothly diffused to wash.

Rotating Gobo Wheel

Six-position rotating gobo wheel with five rotatable, indexable gobo positions and one open gobo position. Note, does not include gobos (gobos are sold separately).

Shutter (Only on "S" Framing Models)

Four-blade system can frame and crop beam field and gobos. Each blade can translate across 85% of field and rotate up to +/- 35°. Entire shutter rotates +/- 45°.

Beam Size Iris (Only on "I" Iris Models)

In addition to the zoom optics, a mechanical iris provides continuous beam size control for both rapid and smooth-timed beam angle changes.

Pan and Tilt

Smooth, time-continuous motion using 3-phase stepper motors with encoder correction. High frequency drivers to reduce stationary noise when luminaire is in parked position. Pan range is 540°, Tilt range is 270°. 0.1° resolution.

Optical

Source (Incandescent Models)

1000W Tungsten Halogen Lamp. Color Temp: 3200K, Output: 10,000 Lumens.

Source (Arc Models)

575W Arc Lamp. Color Temp: 5600K, CRI: 95, Output: 15,000 Lumens.

Reflector

Precision glass reflector with dichroic cold mirror coating.

Operational

Power Requirements

Depending on voltage, 1 to 2 Amps are supplied to Incandescent models through standard AC distribution while 3 to 9 Amps are supplied to Arc luminaires and ballast.

Operational Temperature

-20° to 122°F (-29° to 50°C)

Cooling

Free convention cooling when hung. Shutter models and floor mounting units activate a low noise, forced-air cooling system.

Control

Compatible with a wide variety of DMX512 consoles.

Mounting Position

All models can be mounted and operated in any orientation.

Weight

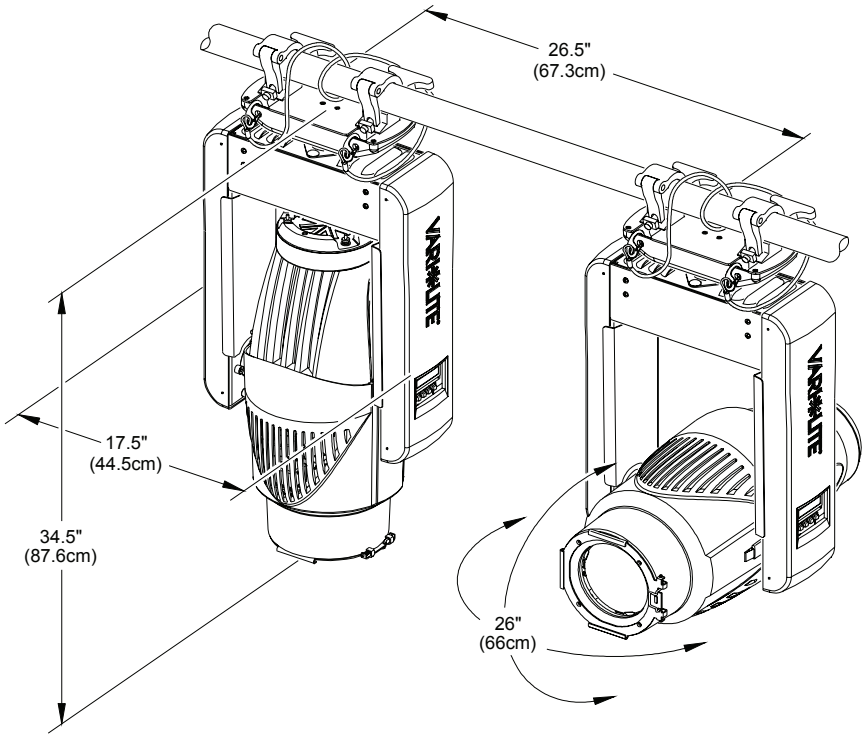
Tungsten Version (without dimmer): 70 lbs (32 kg)

Tungsten Version (with optional dimmer): 72 lbs (32.65 kg)

Arc Version: 70 lbs (32 kg) / Arc Unit Only: 16.6 lbs (7.52 kg)

Spacing

Hangs on 26.5 in. (67.3 cm) centers.



Photometric

VL1100™ ERS Luminaire - Incandescent Models with 1000W Tungsten Halogen Lamp

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

FIELD ANGLE (degrees)	FIELD DIAMETER TN*	BEAM ANGLE (degrees)	BEAM DIAMETER TN*	CANDELA (cd)
19.0	.335	13.0	0.228	218,000
26.0	.462	19.5	0.344	105,600
36.0	.650	25.5	0.453	58,000
70.0 (Super Zoom)	1.40	29.0	0.517	28,640

* Multiply throw distance by Tn to determine coverage.

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

VL1100™ ERS Luminaire - Arc Models with 575W Metal Halide Lamp

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

FIELD ANGLE (degrees)	FIELD DIAMETER TN*	BEAM ANGLE (degrees)	BEAM DIAMETER TN*	CANDELA (cd)
19.0	.335	13.0	0.228	383,000
26.0	.462	19.5	0.344	185,500
36.0	.650	25.5	0.453	101,900
70.0 (Super Zoom)	1.40	29.0	0.517	50,300

* Multiply throw distance by Tn to determine coverage.

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