



The VARI\*Lite® VL7B™ spot luminaire provides a four frame shuttering system. It uses a revolutionary collection optics system that produces a bright, even field using only 700 watts of arc power.

Full color spectrum crossfades via the unique CVF™ System, from the palest shades to the most saturated hues with unparalleled precision and repeatability.

Zoom projection lens transmits high quality imaging and a constant 8:1 ratio as the focus is changed. Beam fall off ratio is 2:1 from center to edge at any magnification.

Rotating gobos, and strobe.

Every feature optimized for speed and also for slow, smooth repeatable transitions.

# VL7B™ Series

s p o t l u m i n a i r e

## Programmable Functions:

- Intensity Control:** Consistent dimming from fully open to full blackout, over a programmable range of .5 second to 1 hour.
- Strobe:** Provides variable speed up to 8 cycles per second.
- Field Angle:** Continuously variable beam angle from 5° to 40°, programmable over a timed range of 2 seconds to 1 hour.
- CVF Color System:** Continuously variable full color spectrum crossfading. Maximum translation may occur over a programmed range from .5 second to 1 hour. Adjacent colors may be reached in as little as .12 second.
- Rotating Gobo Wheel:** 6 position gobo wheel. Wheel may rotate 180° in either direction in as little as .3 second. Adjacent gobos may be reached in .12 second. Individual gobo rotation shall be smooth and stepless over a range from .2 RPM to 120 RPM in either direction. Angular resolution shall be .3°.
- Shuttering:** 4-frame system can adjust beam shape over a timed range of 1 second to 59 minutes. Device rotates 50°.
- Focus:** Focus changes may be controlled over a timed range of 2 seconds to 1 hour.
- Beam Size Control:** Beam size iris programmable over a timed range of .1 second to 30 seconds.
- Pan and Tilt:** Smooth, time controlled continuous motion by way of a digital servo system.
- Range:** Pan - 370°, Tilt - 270°.
- Max Velocity:** 240° per second.
- Accuracy:** 0.3° resolution.

## Description

- Source:** Philips MSR 700 SA, 5600°K integrated color temperature.
- Power Requirements:** Lamp power from the APS6™ module in the Modular Power Distribution Rack at 180 to 265 VAC, 50/60 Hz. Luminaires are powered through the Smart Repeater™ Plus unit.
- Reflector:** Precision metal reflector with dichroic cold mirror coating. Source may be adjusted in the reflector to peak or flatten the projected beam field.
- Operational Temperature:** 32° to 120°F (0° to 49°C).
- Cooling:** Virtually silent forced air.
- Control:** Completely compatible with either the VARI\*Lite automated lighting system, featuring the Virtuoso™, Artisan®Plus or mini-Artisan®2 control console or consoles with DMX512 output.
- Mounting Position:** Mounted and operated in any orientation.
- Spacing:** Hangs on 26 in. (660 mm) centers.
- Weight:** 69 lbs (31.3 kg).

## Accessories

- |              |   |
|--------------|---|
| 71.2528.0700 | MSR 700 SA Lamp                               |
| 21.9650.0005 | Series 300™ Truss Hook                        |
| 21.9650.4103 | Series 300 Floor Stand                        |
| 22.9634.0145 | Series 300 Safety Cable                       |
| 25.7042.0006 | 6 ft. Shielded Series 300 Lamp Cable          |
| 25.7042.0012 | 12 ft. Shielded Series 300 Lamp Cable         |
| 25.7042.0020 | 20 ft. Shielded Series 300 Lamp Cable         |
| 25.7155.0050 | 50 ft. Shielded Series 300 Lamp Cable         |
| 25.7155.0100 | 100 ft. Shielded Series 300 Lamp Cable        |
| 25.7155.0XXX | Custom Length Shielded Series 300 Lamp Cable* |
| 20.9623.0600 | Smart Repeater™ Plus Unit                     |
| 20.9625.0024 | Series 300 Molded Plastic Work Trunk          |
| 20.9625.0102 | VL7 Luminaire Trunk (Holds 2 VL7B luminaires) |
| 22.5011.0086 | Spare Components Set                          |

\*Cannot exceed 300 ft. in length.



# VL7B™ Series

s p o t l u m i n a i r e

## Specifications

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

Each unit is equipped with on-board processors providing diagnostic and self-calibration functions.

The unit contains two high torque servomotors to provide movement of the head through 370° 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.

The unit contains a 4-frame shuttering system for beam shaping, which can be adjusted over a timed range of one second to 59 minutes. The device rotates 50° for ease of programming. In addition, a gobo wheel containing five individually rotating, indexable gobos (and one open position) is included. Its operation is achieved by two motors, which provide independent drive regardless of the direction of movement. All five rotating gobos are easily interchangeable to allow further customization of the unit. (A wide selection of color and patterned gobos is available from Vari-Lite.)

The unit contains a mechanical dimmer that provides full field dimming and allows for smooth timed fades and fast blackouts. A douser/strobe mechanism is also provided to create effects with a variable speed cycling of up to eight times per second. A mechanical iris provides continuous beam size control for both rapid changes and smooth timed beam angle changes. Variable beam focus is provided to soften the edges of gobos or spots and to provide gobo crossfades. A powerful zoom optics system offers an adjustable field angle from 5° to 40°.

The unit features a continuously variable dichroic color mechanism capable of full color spectrum crossfading. The mechanism is programmable over a timed range from one second to one hour with adjacent color changes possible in as little as 0.12 seconds.

Control cabling to the unit provides both digital control signals and power from a Smart Repeater Plus unit. The unit can be floor mounted by use of an optional floor stand.

The unit is UL/C-UL listed and CE-marked. Exterior finish is black.

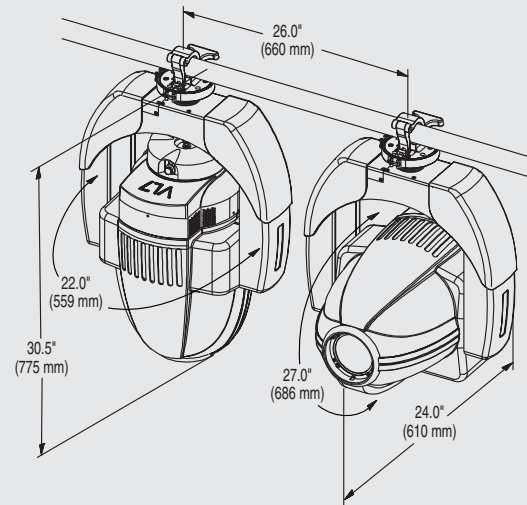
## Photometric Data\*

VL7 Spot Luminaire - 700W Arc					
FOV	CANDELA (cd)	BEAM ANGLE (DEGREES)	BEAM DIAMETER TN <sup>1</sup>	FIELD ANGLE (DEGREES)	FIELD DIAMETER TN <sup>1</sup>
5°	1,900,000	4.0°	.070	6.5°	.114
10°	1,120,000	5.5°	.096	10.0°	.175
15°	508,000	7.5°	.131	15.0°	.263
20°	260,000	11.0°	.193	21.0°	.371
25°	174,000	13.0°	.228	25.5°	.453
30°	122,000	16.0°	.281	29.5°	.523
35°	90,000	17.5°	.308	34.0°	.612
40°	69,600	20.0°	.353	37.0°	.669

<sup>1</sup> Multiply distance by Tn to determine coverage.

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

\* All data taken with seasoned light source at 20 hours of life. Lens is focused on the beam size iris to provide a hard edge for each FOV.



**VARI\*LITE**<sup>®</sup>  
Express yourself.

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**CE**

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