

# ColdVision – LED Light Source (CV-LS)

High Brightness Illumination with Robust Connectivity

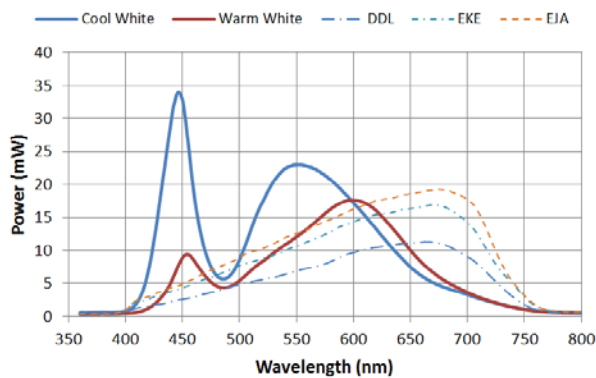


The next generation of SCHOTT LED Light Sources known as the CV-LS breaks new ground for high efficiency output in a compact footprint with versatile connectivity. This flagship light source's appearance may be similar to previous models, but the design has been improved with an upgraded new set of high brightness LED light engines and cooling system for greatly increased light output, beyond 150W EJA Halogen lamp levels for the cool white model. The entire internal design has been revamped for improved efficiency, ESD handling, and robust connectivity and controls. Cool White, Warm White, and RGBW models are available.

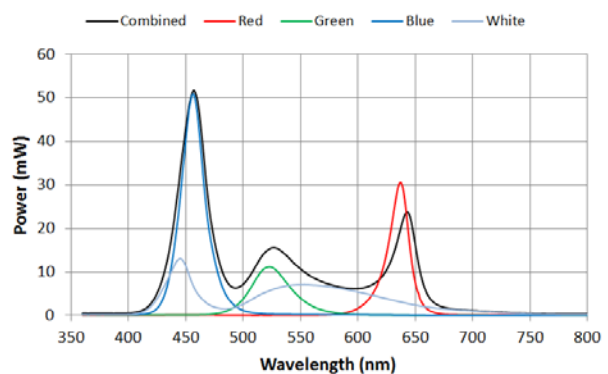
| Illumination Data <sup>2</sup> (Cool White Model) |            |                |                           |
|---|------------|----------------|---------------------------|
| Luminous Flux (Default Settings)                  |            | 1100 lm        |                           |
| Luminous Flux (Max Output)                        |            | 1350 lm        |                           |
| Color Rendering Index                             |            | 75             |                           |
| Model Number <sup>1</sup>                         | Color      | Wavelength CCT | Light Output <sup>2</sup> |
| A20980/6000K                                      | Cool White | 6000K          | 1350lm                    |
| A20980/3000K                                      | Warm White | 3000K          | 900lm                     |
| A20980/RGBW                                       | Red Ch.    | 625nm          | 130lm                     |
|   | Green Ch.  | 530nm          | 250lm                     |
|   | Blue Ch.   | 460nm          | 70lm                      |
|   | White Ch.  | 6300K          | 400lm                     |

| Features   |
|--|
| Long life, high efficiency LED engine rated for 50,000 hours                               |
| ColdVision light guide compatible  |
| Internal light feedback stabilization  |
| Analog and digital remote control:<br>USB (Virtual RS232), RS232, Dual Ethernet, Multiport |
| Fast triggered strobe (25µs rise time, 1µs precision)                                      |
| Improved resistance to vibration & shock   |
| Improved ESD Immunity (Heavy Industrial)   |
| Small footprint, backwards compatible  |
| Universal input power supply   |
| RoHS compliant, ETL Approved   |
| All connectors with retention mechanisms   |

Relative Optical Spectrum of CV-LS vs Halogen Light Sources



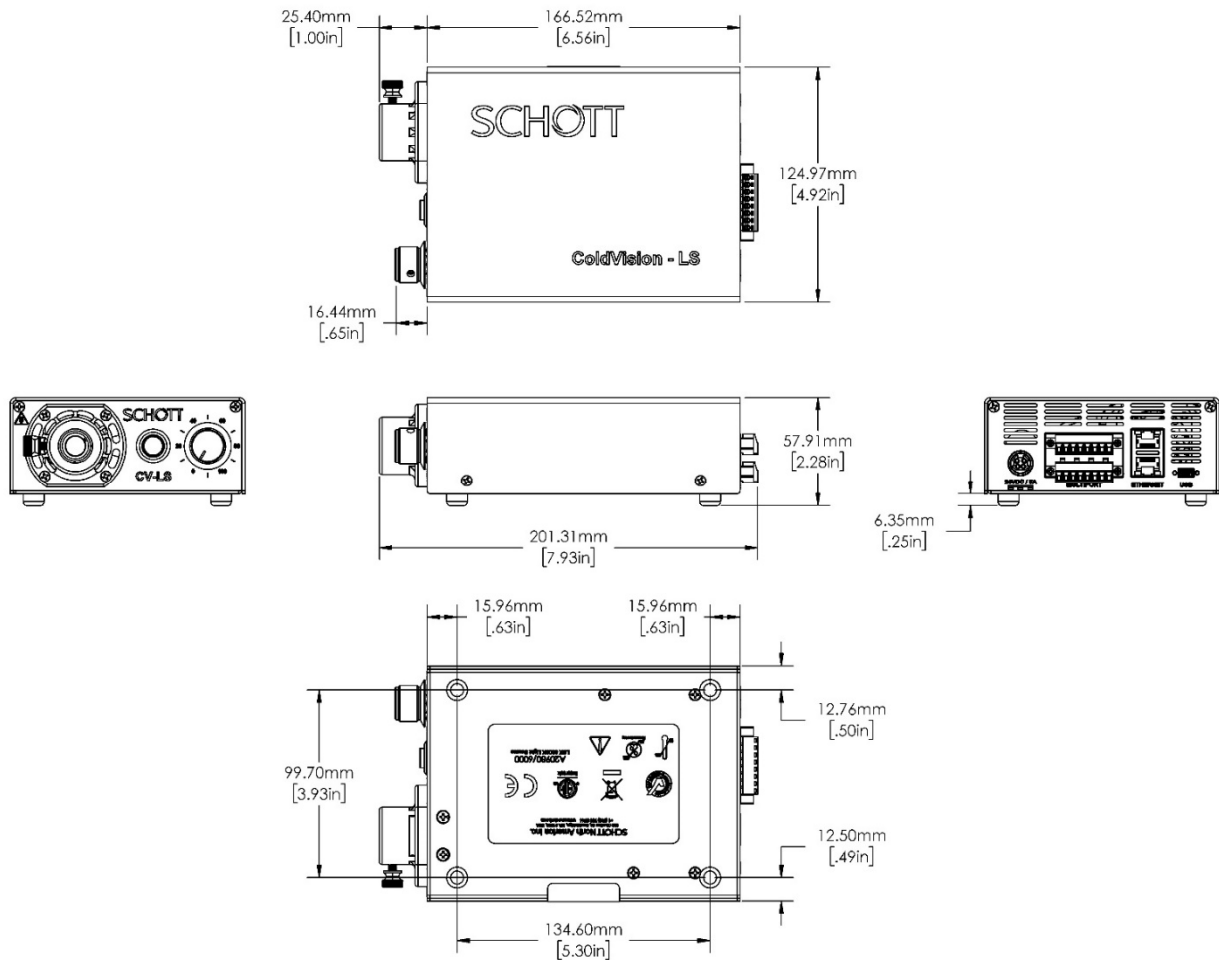
RGBW Optical Spectrum



- 1) Full part numbers will also specify power supply cord type.
- 2) Measured using a SCHOTT fiber optic light guide, Ø 13 mm active, length 1 m (A08051.40 bundle), 23C ambient, typical output

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## Physical Specification



| Electrical Specification    |                             | Certification       |  |
|-----------------------------|-----------------------------|---------------------|--|
| Power Input                 | 24VDC / 5A Max (18-28VDC)   | Marking             |  |
| Power Consumption           | 120W                        | European Directives | 2006/95/EC (Low Voltage Directive)<br>2004/108/EC (EMC Directive)<br>2011/65/EU (RoHS) |
| Mechanical Specification    |                             | EMC                 | IEC 61326-1:2012<br>FCC CFR47 Part 15B:2015<br>Japan Deviations                        |
| Dimensions (W x D x H)      | 5.08 in x 7.93 in x 2.35 in | Safety              | GENELEC EN 61010-1:2010<br>UL 61010-1:2012<br>CAN/CSAC22.2#61010-1:2004                |
| Weight                      | 1.8 lbs.                    | Photo-biological    | IEC 62471:2006   |
| Environmental Specification |                             |                     |  |
| Operational Temperature     | 0 C to 45 C                 |                     |  |
| Operational Humidity        | 5% to 95% Non-Condensing    |                     |  |
| Storage Temperature         | -25 C to 85 C               |                     |  |

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