

# DCR® III Light Source

DC regulated 150 W halogen light source provides intense, cool illumination.



DCR® III Light Source with EKE Lamp, A20800

## Product and Performance Characteristics

- DC-regulated light source limits light fluctuation to  $\pm 0.5\%$  due to line voltage variation
- Universal input voltage (90 to 265 VAC), detachable IEC cord
- Current limiting – protects the unit from over heating due to defective and aging bulbs
- Transient protection – allows remote location of bulb
- Lamp change indicator light - LED located on front panel changes from green to red when lamp requires replacement
- Soft start “lamp saver” circuitry
- IR filter for cool illumination
- Solid state dimmer control for continuous dimming
- Interchangeable Modulamp Units offer 2 lamp positions to maximize individual lamp efficiencies
- Choice of two, 150 watt halogen lamps – EKE and DDL
- Built-in 9-pin connector for analog remote control
- Low housing temp – slightly above ambient, quiet fan cooling
- CSA certified to UL spec, CE compliant to low voltage and EMC directives

## Options

- Wired, manual remote control
- Infinite setting, twelve blade iris diaphragm version available to reduce intensity while maintaining color temperature

## DCR® III Light Source Models Standard with US Power Cord

| Part. No. | Lamp     |
|-----------|----------|
| A20800    | EKE Lamp |
| A20800.2  | DDL Lamp |

## DCR® III Light Source Model without Modulamp Unit . With US Power Cord

| Part. No.                | Lamp                       |
|--------------------------|----------------------------|
| * A20801                 | No Lamp. Power Supply Only |
| * Made-to-order products |                            |

## DCR® III Light Source Models EU Version – No Power Cord Included

| Part. No. | Lamp     |
|-----------|----------|
| A20820    | EKE Lamp |
| A20820.2  | DDL Lamp |

Modulamp... SCHOTT Innovation! Two positions optimize light intensity output, depending on the lamp in use. Entire housing is interchangeable for quick setup.

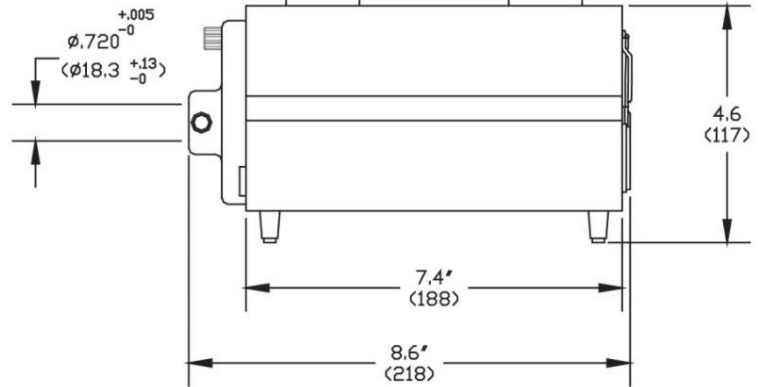
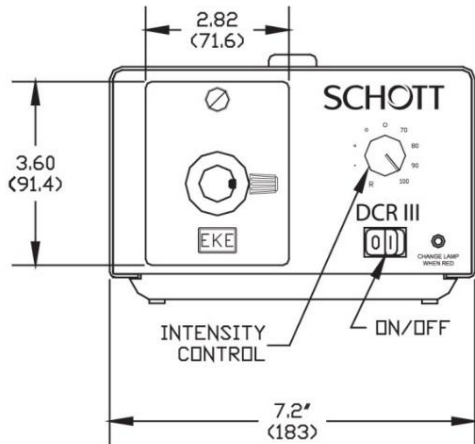
Choice of Lamps.. SCHOTT Versatility! Two different bulbs (EKE, DDL) offer light intensity and color temperature options to maximize productivity and accuracy.

EKE, DDL lamps and Modulamp units can be purchased separately



## Specifications

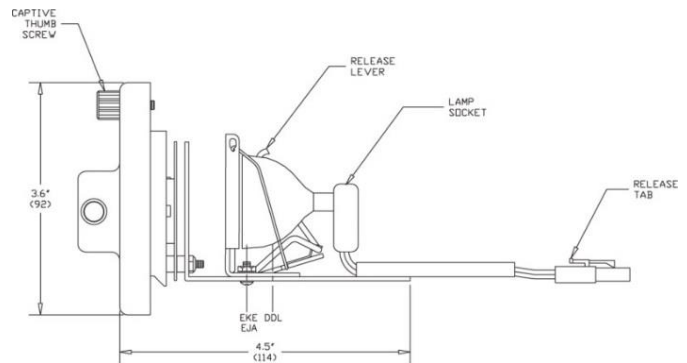
### DCR® III / DCR® III Plus Light Source



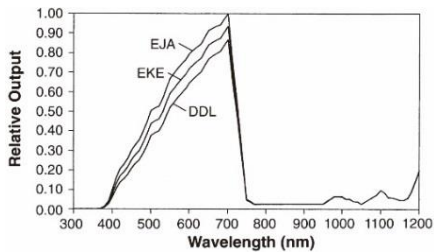
Input: 115/230 VAC – 50/60 Hz, Output: 0–20.5 VDC

Dimensions in ( ) are in mm

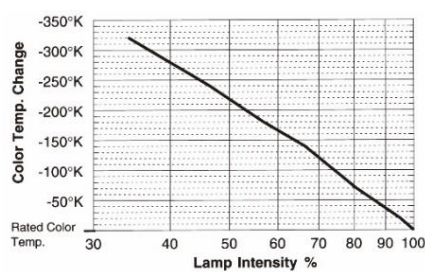
| Power Supply Specification                |                      |
|---|----------------------|
| Rated power output                        | 150 Watts            |
| Output voltage                            | 0.0, 0.5 to 20.5 VDC |
| Input voltage rating 50/60 Hz             | 90 to 265 VAC        |
| Power factor correction @ 230 VAC, 50 Hz  | > 0.99, < 4°         |
| Hold-up time, nominal AC input, full load | 8.3 milliseconds     |
| Line regulation, over entire input range  | ± 0.5%               |
| Current limit set point                   | 8.5 Amps             |
| Temperature range operating               | 0°C to 45°C          |
| Temperature range storage                 | -25°C to 85°C        |
| Relative humidity, non-condensing         | 5% to 95%            |



### Spectral Curves w/Interference IR Filter



### Color temperature Change vs. Lamp Intensity



### Lamp Intensity vs. Intensity Control Knob Setting

