

CONNOLUX

## TECHNICAL PERFORMANCE DATA

CONNOLUX STUDIO LAMP  
MODEL: CL-1



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## SPECIFICATIONS

LIGHT SOURCE	
<b>LED Type</b>	Integrated Array
<b>Correlated Color Temperature (CCT)</b>	3950 K
<b>Color Rendering Index (CRI)</b>	Ra = 98 Re = 97 R9 = 97
<b>Duv</b>	+0.0005
<b>Luminous flux</b>	5250 lumens (with reflector)
<b>Lumens/Watt</b>	85 lm/W (at maximum intensity)

See Notes on Page 4 for information on basis of measurements.

ELECTRICAL & THERMAL	
<b>Power Distribution</b>	120/240 VAC
<b>Power</b>	63 Watts
<b>Maximum Surface Temperature of Light Head</b>	115°F (46°C) (at maximum intensity)
<b>Cooling Method</b>	Fan cooled: heat is discharged through the back of lamp and away from the work area.
<b>Spectral Power Distribution</b>	LED emits no UV or Infrared Radiation

PHYSICAL PROPERTIES	
<b>Light Head Dimensions</b>	5.5 x 5.5 x 5 in (14 x 14 x 12.7 cm)
<b>Length of Barn Door</b>	5 in (12.7 cm)
<b>Light Head Weight</b>	2.4 lbs (1.1 kg)
<b>Control Box Dimensions</b>	10 x 6 x 3.5 in (25.4 x 15.2 x 8.9 cm)
<b>Control Box Weight</b>	4.5 lbs (2 kg)

<b>ACCESSORIES &amp; SPECIFICATIONS</b>	
<b>3 Filters to modify CCT:</b> A = 3400 K B = 3250 K C = 2900 K	<b>3 Light Diffusing Filters:</b> <u>N</u> arrow <u>M</u> edium <u>W</u> ide
1 Honeycomb Filter (for Raking Light)	
Lamp head with adjustable mount that is compatible with standard photographic light stands (accepts a 5/8" stud).	
3.3 ft (1m) Light Head extension cord with grounded 120 VAC plug	
Light stand NOT included.	

See ***Set-Up Instructions*** for photographs of all accessories included with the Connolux Studio Lamp.

<b>LIGHT STAND RECOMMENDATIONS</b>
<ul style="list-style-type: none"> <li>▪ The Connolux Studio Lamp is compatible with photographic light stands, boom stands, or modular overhead lighting suspension systems (the lamp head accepts a 5/8" stud).</li> <li>▪ It is essential to use a counterweight to stabilize the lamp head when it is attached to light stand or boom stand. A minimum of 4 pounds is recommended.</li> <li>▪ A light stand with a maximum height of at least 8-9 feet is recommended (see <b><i>Set-up Instructions</i></b> regarding optimum height and lamp placement).</li> </ul>

## PERFORMANCE DATA

In these charts, the metrics are given for four combinations of diffusers at different distances between the lamp and the artwork.

Definitions:

- *Intensity* = Illuminance value at the center of the beam of light
- *Beam Width* = Full Width, Half Maximum

Distance		No Diffuser	Narrow (N)	Medium (M)	Wide (W)
		<i>Beam Angle</i>	25°	30°	40°
4 feet	<i>Beam Width</i>	21"	26"	35"	55"
	<i>Intensity</i>	8000 Lux	5600 Lux	3600 Lux	1800 Lux
8 feet	<i>Beam Width</i>	42"	52"	70"	110"
	<i>Intensity</i>	2000 Lux	1400 Lux	900 Lux	450 Lux

Distance		No Diffuser	Narrow (N)	Medium (M)	Wide (W)
		<i>Beam Angle</i>	25°	30°	40°
1 meter	<i>Beam Width</i>	44 cm	54 cm	73 cm	115 cm
	<i>Intensity</i>	12000 Lux	8400 Lux	5400 Lux	2700 Lux
2 meter	<i>Beam Width</i>	88 cm	108 cm	146 cm	230 cm
	<i>Intensity</i>	3000 Lux	2100 Lux	1350 Lux	675 Lux

Notes:

- The luminous flux, radiant power, chromaticity and CRI measurements are based on typical performance. Due to variations in individual lamp performance, there will be some deviation from typical performance. The tolerance values are based on actual measurements of production lamps.
  - Tolerance values:
    - CCT = ± 75 K
    - CRI values = ± 2
    - Duv = ± 0.0010
- An Asense Lighting Passport Spectrometer was used to measure CCT, CRI, and Duv values.
- The high cooling capacity of the Connolux Studio Lamp's system will ensure maximum performance and stability under standard operating conditions. When properly cooled, quality LEDs (such as those used for the Connolux Studio Lamp) are estimated to provide over 40,000 hours of acceptable service life.
- The luminous flux value is provided for informational purposes only. It is based on manufacturer's data for the maximum rated current. Actual luminous flux will vary.