



Lighting Components and Design, Inc.

## 900 SERIES CARTRIDGE TYPE LED Lamps

**LITTELITES®**  
A Lighting Components and Design Product Line

### Overview

The 900 Series LED cartridge lamp mates with 910 Series lampholders. Constructed with an aluminum case, 900 Series LED lamps are noted for high resistance to shock and vibration, long life, and low power requirements. These may be ordered with multiple lens styles and lens colors.

### Approvals

UL Recognized and CSA Certified.

### Specifications

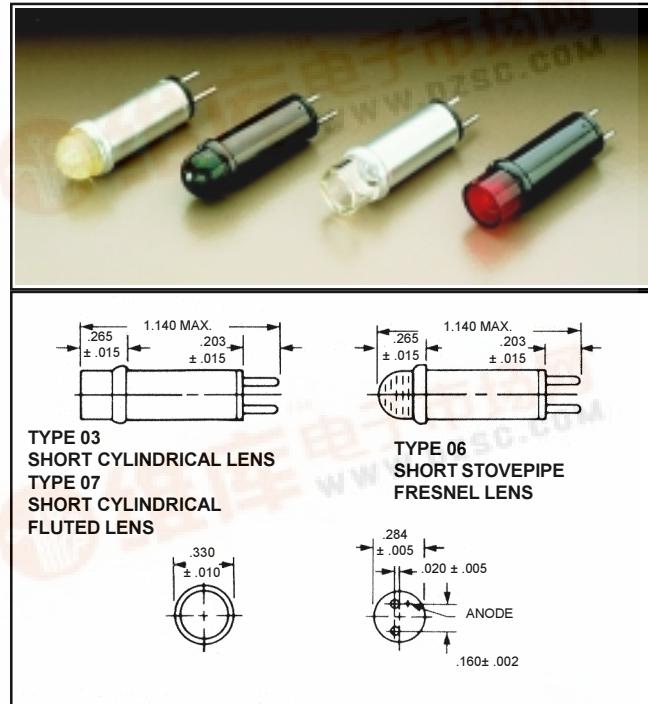
**Sleeve:** Aluminum. Black anodized finish standard; clear anodized finish optional.

**Termination:** .040" diameter stainless steel pins mounted in a nylon header. The anode is identified on the header as the + pin connection.

**LED DC Voltage options:** 1.8 to 28 volts.

**Lens:** Heat resistant, high strength polycarbonate.

**Lens Marking:** Cylindrical lenses may be stamped. Contact factory.



### ORDERING INFORMATION:

EXAMPLE: 900 1 60 J 06 1 RN

Red LED      Built-in 330 OHM Resistor      Short Stovepipe Lens      Black Anodized Finish      Red Non-Diffusing Lens

Series Number	Termination	Lamp Code	Resistor			Lens Type	Sleeve Finish	Lens Color		
900	1 Stainless steel pins standard A Tin-plated stainless steel pins for printed circuit board mounting	60 (Red LED) 66 (Green LED) 68 (Yellow LED)	Code	Current	Volts	03 Short Cylindrical 06 <sup>2</sup> Short Stovepipe Fresnel 07 <sup>2</sup> Short Cylindrical Fluted	1 Black Anodized-standard 2 Clear (Silver) Anodized	Nondiffusing (Clear)		
			Nominal 10 mA					CN Colorless (60,66,68) <sup>3</sup>		
			X	NONE	1.8			WN White (60,66,68) <sup>3</sup>		
			U	200 OHM	3.6			AN Amber (68) <sup>3</sup>		
			J	330 OHM	5			GN Green (66) <sup>3</sup>		
			W	430 OHM	6			RN Red (60) <sup>3</sup>		
			Y	820 OHM	10			YN Yellow (68) <sup>3</sup>		
			K	1000 OHM	12					
			G	1200 OHM	14					
			L	2700 OHM	28					
2 Recommended for best light distribution. 3 Lamp Code Number. When specifying lens color, use only with lamp codes shown.										

<sup>2</sup> Recommended for best light distribution.

<sup>3</sup> Lamp Code Number. When specifying lens color, use only with lamp codes shown.



Lighting Components and Design, Inc.

## 900 SERIES CARTRIDGE TYPE Incandescent Lamps

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### Overview

The 900 Series incandescent cartridge lamp mates with 910 Series lampholders. Constructed with an aluminum case, 900 Series incandescent lamps are noted for high brightness. These may be ordered with multiple lens styles and lens colors.

### Approvals

UL Recognized and CSA Certified.

### Specifications

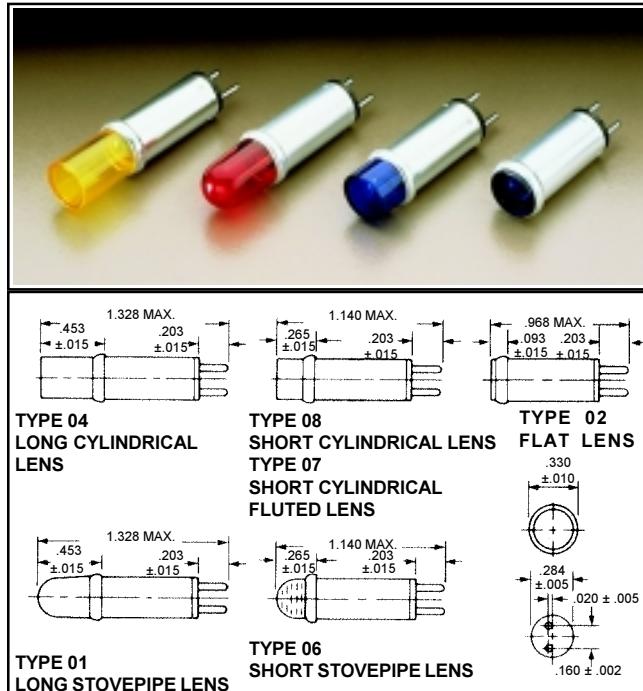
**Sleeve:** Aluminum. Clear anodized finish standard; black anodized finish optional.

**Termination:** .040" diameter stainless steel pins mounted in a nylon header.

**Incandescent AC or DC Voltage options:** 1.35 to 28 volts.

**Lens:** Heat resistant, high strength polycarbonate. Translucent lens colors are normally used for incandescent cartridge lamps as they give an evenly diffused light over the lens surface. When Type 08 (short cylindrical) lens is used in the 910 Series holder with a screw-on lens cap, specify "colorless nondiffusing" for 08 lens color.

**Lens Marking:** Cylindrical lenses may be stamped. Contact factory.



### ORDERING INFORMATION:

EXAMPLE: 900 1 06 X 08 2 CN

Series Number	Termination	Lamp					Resistor	Lens Type	Sleeve Finish	Lens Color
		Code	Volts	MA	MSCP	Life (Hrs)				
900	1 Stainless steel pins standard	05 <sup>2</sup>	1.35	60	.01	3,000	X (NONE)	01 <sup>3</sup> Long Stovepipe	1 Black Anodized	Nondiffusing (Clear)
		06 <sup>2</sup>	2.7	60	.04	6,000		02 <sup>4</sup> Flat		AN Amber
		07 <sup>2</sup>	3.0	15	.003	10,000		04 Long Cylindrical		BN Blue
		17	5.0	60	.03	30,000		06 <sup>5</sup> Short Stovepipe Fresnel		CN Colorless
		10	6.0	40	.04	10,000		07 <sup>5</sup> Short Cylindrical Fluted		GN Green
		16	6.0	60	.13	3,000		08 <sup>4</sup> Short Cylindrical		RN Red
		11	6.0	200	.60	1,000				WN White (Cloudy)
		01	6.3	40	.03	20,000				YN Yellow
	A Tin-plated stainless steel pins for printed circuit board mounting	12	6.3	200	.55	5,000				Translucent
		02	6.3	200	.40	20,000				AT Amber
		08 <sup>2</sup>	10.0	14	.006	50,000				BT Blue
		09 <sup>2</sup>	10.0	40	.08	5,000				GT Green
		18	12.0	40	.10	10,000				RT Red
		13	14.0	80	.50	1,500				WT White
		03	14.0	80	.30	15,000				YT Yellow
		20 <sup>2</sup>	14.0	17	.03	25,000				
		21 <sup>2</sup>	18.0	20	.08	15,000				
		14	18.0	40	.15	10,000				
		15	28.0	40	.34	4,000				
		19	28.0	40	.15	10,000				
		04	28.0	40	.30	7,000				

<sup>1</sup> MSCP - Mean Spherical Candle Power.

<sup>2</sup> Because of relatively low light output, these lamps should be used with non-diffusing (clear) lens colors only. Lamp ratings are compiled from a leading lamp manufacturer's catalog.

<sup>3</sup> Best suited for wide angle viewing.

<sup>4</sup> For High Temperature application, contact factory.

<sup>5</sup> Nondiffusing lens colors only. Types 06 and 07 are recommended for best light distribution.



Lighting Components and Design, Inc.

## 900/901 SERIES CARTRIDGE TYPE Neon Lamps

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### Overview

The 900 Series neon cartridge lamp mates with 910 Series lampholders. Constructed with an aluminum case, the 900/901 series neon lamps are ideally suited for 125 volt applications. The 901 series cartridge lamps are 0.125" longer than the 900 series to accept blue or green neon lamps and mate with the 911 series lampholders. Please consult the table below.

### Approvals

UL Recognized and CSA Certified.

### Specifications

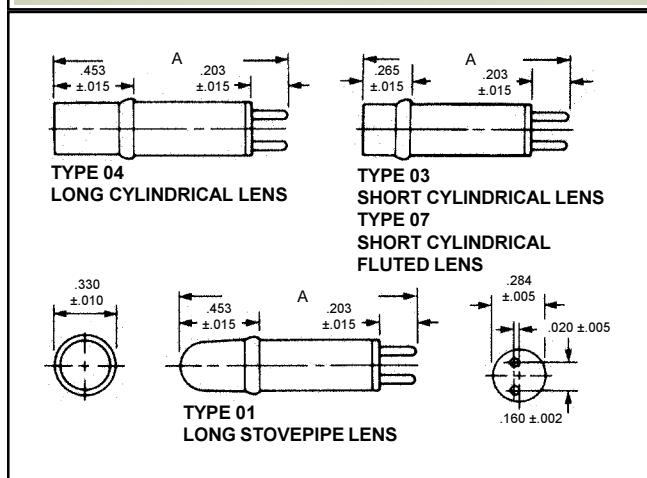
**Sleeve:** Aluminum. Clear anodized finish standard. Black anodized finish optional.

**Termination:** .040" dia. stainless steel pins mounted in nylon header.

**Voltage options:** Std. Brightness, 105 to 125 AC or DC volts. High Brightness, 110 to 125 AC volts. **Green Neon**, 115 to 125 AC or DC volts. **Blue Neon**, 105 to 125 AC volts or 105 to 150 DC volts.

**Lens:** Heat resistant, high strength polycarbonate. When type 03 (short cylindrical) lens is used in a 910 or 911 Series holder with a screw-on lens cap, specify "colorless nondiffusing" for 03 lens color. **Lens Marking:** Cylindrical lenses may be stamped. Contact factory.

Lens Type	Dimension A in Inches (Max.)	
	900 Series	901 Series
01	1.328	1.453
03	1.140	1.265
04	1.328	1.453
07	1.140	1.265



### ORDERING INFORMATION:

EXAMPLE: 900 1 50 X 01 2 AN

		Standard Brightness A9A Lamp		No Built-in Resistor		Long Stovepipe Lens		Clear Anodized Finish		Amber Non- diffusing Lens	
Series Number	Termination	Lamp Code	Resistor		Lens Type	Sleeve Finish	Lens Color				
			Code	Internal Resistor Value							
900	1 Stainless steel pins standard	Note: Reference Lamp Selection Guide.	X <sup>5</sup>	No Built-In Resistor	01 <sup>6</sup> Long Stovepipe	1	Nondiffusing (Clear)				
		52 <sup>1</sup> Standard Brightness A1B	C E T	56K OHM, 3K Life Hrs. 100K OHM, 15K Life Hrs. 150K OHM, 25K Life Hrs.	03 Short Cylindrical	Black Anodized	AN Amber CN Colorless				
		53 <sup>1</sup> High Brightness A1C	X <sup>5</sup> A S C	No Built-In Resistor 22K OHM, 5K Life Hrs. 33K OHM, 25K Life Hrs. 56K OHM, 25K Life Hrs.	04 Long Cylindrical	2	RN Red WN White				
	A Tin-plated stainless steel pins for printed circuit board mounting	50 <sup>2</sup> Standard Brightness A9A (NE2E)	X <sup>5</sup>	No Built-In Resistor	07 <sup>7</sup> Short Cylindrical Fluted	Clear (Silver) Anodized Standard	YN Yellow BN <sup>8</sup> Blue GN <sup>8</sup> Green				
		51 <sup>2</sup> High Brightness C2A (NE2H)	X <sup>5</sup>	No Built-In Resistor							
		56 <sup>3</sup> Green Neon	B	30K OHM, 10K Life Hrs.							
		57 <sup>4</sup> Blue Neon	B	30K OHM, 10K Life Hrs.							

<sup>1</sup> Use with lens colors AN, CN, RN, WN, or YN.

<sup>2</sup> For use on 900 series only with type 01 and 04 lenses.

<sup>3</sup> For use on 901 series only with lens colors GN, CN, or WN.

<sup>4</sup> For use on 901 series with lens colors BN, CN, or WN.

<sup>5</sup> External resistor required.

<sup>6</sup> Best suited for wide angle viewing.

<sup>7</sup> Recommended for best light distribution.

<sup>8</sup> For 901 series only when used with blue or green lamp  
respectively.