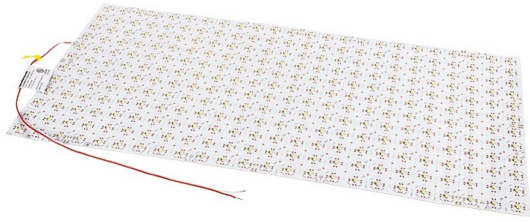


## LLS LED Sheets

Single CCT and Tunable White Sheet Specifications

Project \_\_\_\_\_

Date \_\_\_\_\_ Type \_\_\_\_\_



LLS-A40K80-C1A-30A02-24V

### FEATURES

- 24 VDC input
- 80+ CRI
- Single white and tunable white options
- Highly adaptable design accommodates virtually any application
- LED lifetime of 50,000 hours (L70)
- 3M adhesive backing
- Operating temperature of -4°-113° F (-20°-45° C)
- IP20 environmental rating

### APPLICATIONS

Some common applications include sign lighting, bias lighting, cove lighting, backlighting, task lighting, accent lighting, and under cabinet lighting.

### AVAILABLE VERSIONS<sup>1</sup>

#### Single CCT (18.9" x 9.4")

- LLS-A27K80-C1A-30A01-24V
- LLS-A30K80-C1A-30A01-24V
- LLS-A35K80-C1A-30A01-24V
- LLS-A40K80-C1A-30A01-24V
- LLS-A50K80-C1A-30A01-24V
- LLS-A65K80-C1A-30A01-24V

#### with XH connector

- LLS-A30K80-C1A-30A01-24V (XH)
- LLS-A40K80-C1A-30A01-24V (XH)
- LLS-A50K80-C1A-30A01-24V (XH)

#### Single CCT (24" x 12")

- LLS-A27K80-C1A-30A02-24V
- LLS-A30K80-C1A-30A02-24V
- LLS-A35K80-C1A-30A02-24V
- LLS-A40K80-C1A-30A02-24V
- LLS-A50K80-C1A-30A02-24V
- LLS-A65K80-C1A-30A02-24V

#### Selectable CCT (18.9" x 9.4")

- LLS-H80-C2A-60B01-24V

#### with XH connector

- LLS-H80-C2A-60B01-24V (XH)

#### Selectable CCT (24" x 12")

- LLS-H80-C2A-30A02-24V

### ACCESSORIES

Power Supplies



Controllers and Remotes



### SAMPLE PART NUMBER BREAKDOWN

## LLS-A40K80-C1A-30A01-24V (XH)

FAMILY / CATEGORY / COLOR				LED TYPE / SEGMENT		IP RATING	WATTAGE / DENSITY / SIZE / VOLTAGE / CONNECTION				
LLS	A	40K	80	C	T	A	30	A	01	24V	(XH)
Strip Type	Strip Type	CCT	CRI	LED Type	LED/Segment	IP Rating	Wattage	LEDs/Sheet	Sheet Size	Voltage	Connection Type
LLS: Strip Sheet	A: Single White	27K: 2700K 30K: 3000K 35K: 3500K 40K: 4000K 50K: 5000K 65K: 6500K	80: 80-84	C: 2835	1: 1 LED/seg	A: IP20	30: 30 W 60: 60 W	A: 288 B: 200	01: 18.9 x 9.4 in. (480 x 240 mm) 02: 24 x 12 in. (610 x 305 mm)	24V: 24 V	blank: attached pigtail (XH): XH connector
	H: Tunable White	N/A			2: 2 LEDs/seg						

<sup>1</sup>Max run listed is using a single power supply connected at one end of the run.



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# LLS LED Sheets

Single CCT and Tunable White Sheet Specifications

## Specifications

Model LLS-	A27K80-C1A-30A01-24V	A30K80-C1A-30A01-24V <sup>3</sup>	A35K80-C1A-30A01-24V
Power Consumption	30 W (one full sheet)		
Current Draw	1.25 A (one full sheet)		
CCT	2700K	3000K	3500K
Brightness	2,490 lm (one full sheet)	2,620 lm (one full sheet)	2,620 lm (one full sheet)
Efficacy	83 lm/W	87 lm/W	
Sheet Size	18.9" x 9.4"		
Beam Angle	120°		
Max Run	32.8 ft (10 m) single column/row max run <sup>1</sup> 3 full sheet max run <sup>1</sup>		

Model LLS-	A40K80-C1A-30A01-24V <sup>3</sup>	A50K80-C1A-30A01-24V <sup>3</sup>	A65K80-C1A-30A01-24V	H80-C2A-60B01-24V <sup>3</sup>
Power Consumption	30 W (one full sheet)			60 W (one full sheet)
Current Draw	1.25 A (one full sheet)			2.5 A (one full sheet)
CCT	4000K	5000K	6500K	2700K-6500K
Brightness	2,760 lm (one full sheet)	2,760 lm (one full sheet)	2,760 lm (one full sheet)	5,280 lm (one full sheet)
Efficacy	92 lm/W			88 lm/W
Sheet Size	18.9" x 9.4"			
Beam Angle	120°			
Max Run	32.8 ft (10 m) single column/row max run <sup>1</sup> 3 full sheet max run <sup>1</sup>			16.4 ft (5 m) single column/row max run <sup>1</sup> 1.5 full sheet max run <sup>1</sup>

Model LLS-	A27K80-C1A-30A02-24V	A30K80-C1A-30A02-24V	A35K80-C1A-30A02-24V
Power Consumption	30 W (one full sheet)		
Current Draw	1.25 A (one full sheet)		
CCT	2700K	3000K	3500K
Brightness	2,889 lm (one full sheet)	3,050 lm (one full sheet)	3,050 lm (one full sheet)
Efficacy	96 lm/W	102 lm/W	102 lm/W
Sheet Size	24" x 12"		
Beam Angle	120°		
Max Run	49.2 ft (15 m) single column/row max run <sup>1</sup> 3 full sheet max run <sup>1</sup>		

Model LLS-	A40K80-C1A-30A02-24V	A50K80-C1A-30A02-24V	A65K80-C1A-30A02-24V	H80-C2A-30A02-24V
Power Consumption	30 W (one full sheet)			
Current Draw	1.25 A (one full sheet)			
CCT	4000K	5000K	6500K	2700K-6500K
Brightness	3,210 lm (one full sheet)	3,210 lm (one full sheet)	3,210 lm (one full sheet)	3,035 lm (one full sheet)
Efficacy	102 lm/W			101 lm/W
Sheet Size	24" x 12"			
Beam Angle	120°			
Max Run	49.2 ft (15 m) single column/row max run <sup>1</sup> 3 full sheet max run <sup>1</sup>			

<sup>1</sup>Max run listed is using a single power supply connected at one end of the run.

<sup>3</sup>Models ending in (XH) are identical other than connection type.

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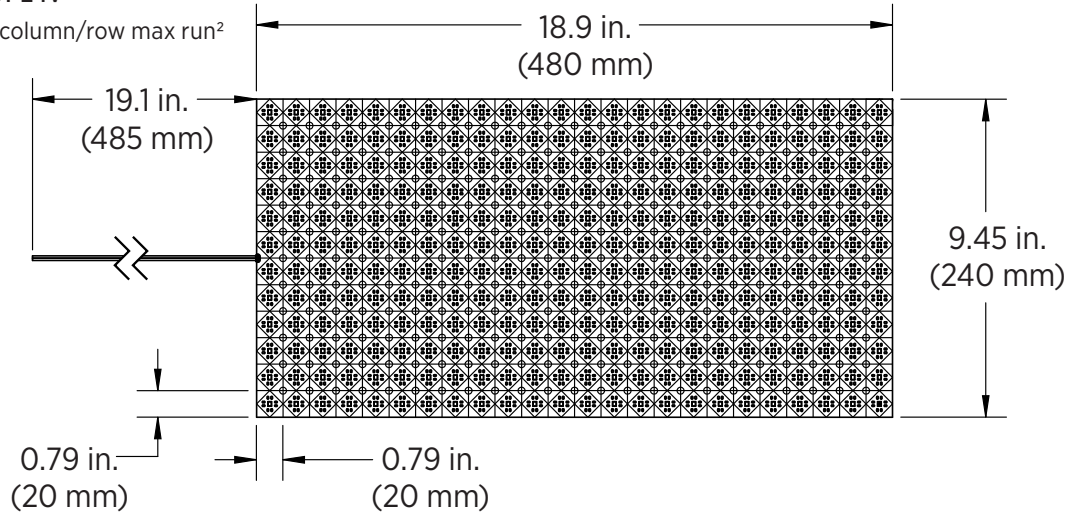
# LLS LED Sheets

Single CCT and Tunable White Sheet Specifications

## DIMENSIONAL DRAWINGS

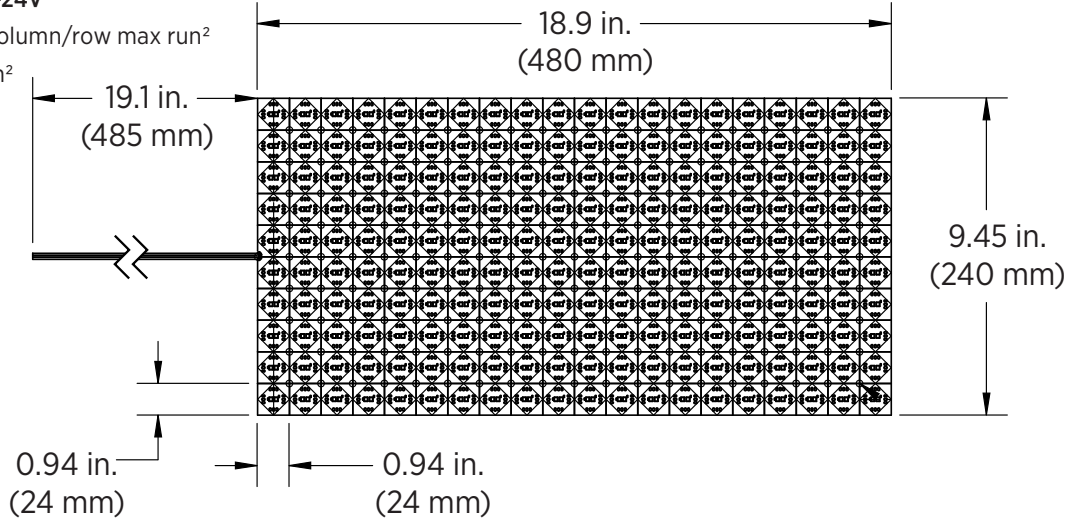
### LLS-AxK80-C1A-30A01-24V<sup>4</sup>

- 32.8 ft (10 m) single column/row max run<sup>2</sup>
- 3 full sheet max run<sup>2</sup>



### LLS-H80-C2A-60B01-24V

- 16.4 ft (5 m) single column/row max run<sup>2</sup>
- 1.5 full sheet max run<sup>2</sup>



Note: The strip height for all strip sheets shown is 0.06 in. (1.5 mm).

<sup>2</sup>Max run listed is using a single power supply connected at one end of the run.

<sup>4</sup>Models ending in (XH) are the same size, but will have connectors on the sheet rather than an attached pigtail as shown. (XH) models will have an included pigtail and interconnect cable.



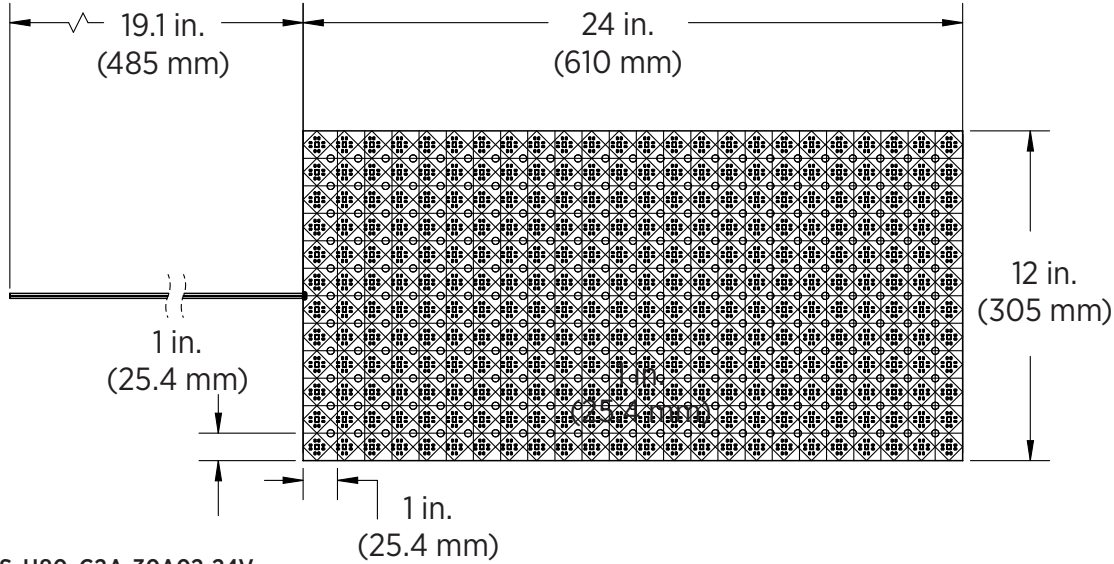
# LLS LED Sheets

Single CCT and Tunable White Sheet Specifications

## DIMENSIONAL DRAWINGS

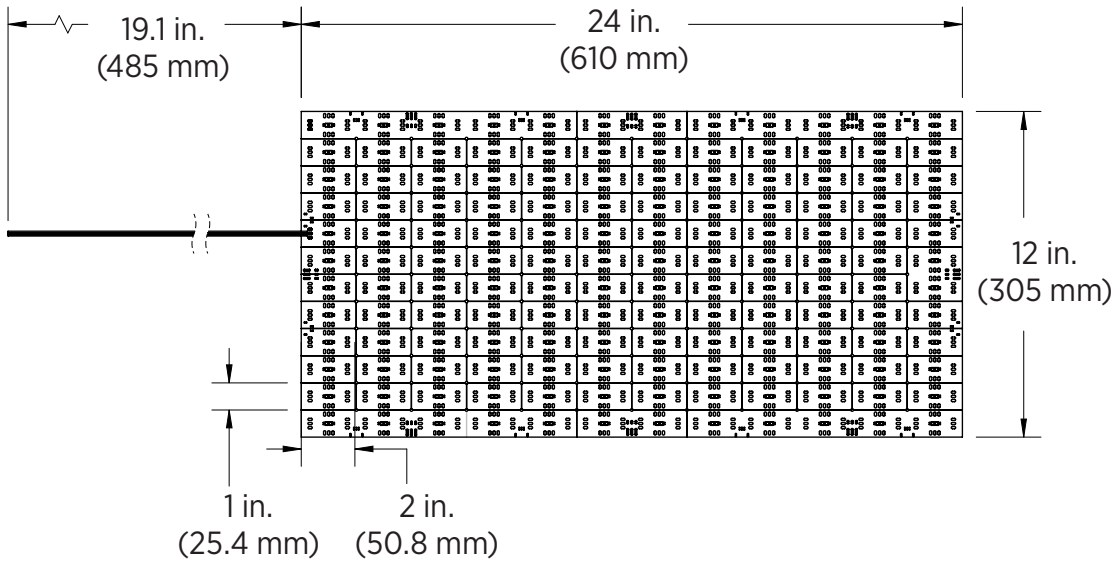
### LLS-AxK80-C1A-30A02-24V

- 49.2 (15 m) single column/row max run<sup>2</sup>
- 3 full sheet max run<sup>2</sup>



### LLS-H80-C2A-30A02-24V

- 49.2 (15 m) single column/row max run<sup>2</sup>
- 3 full sheet max run<sup>2</sup>



Note: The strip height for all strip sheets shown is 0.06 in. (1.5 mm).

<sup>2</sup>Max run listed is using a single power supply connected at one end of the run.

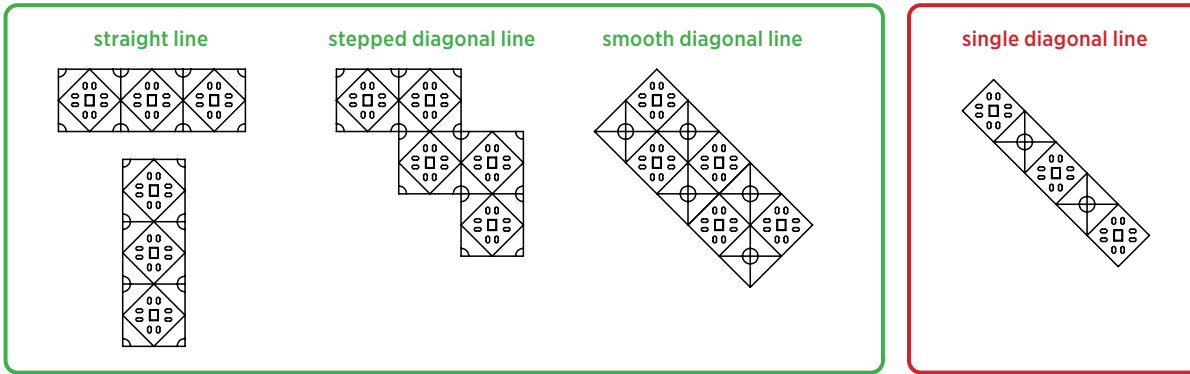


# LLS LED Sheets

Single CCT and Tunable White Sheet Specifications

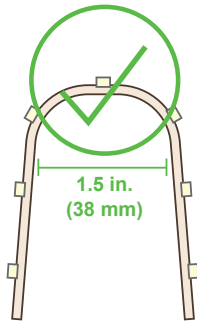
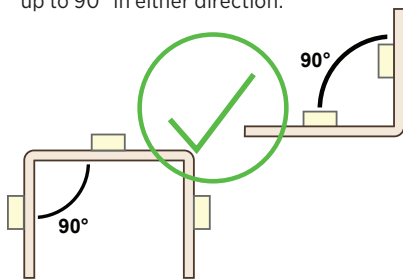
## CUTTING SEGMENTS

Strip sheets can be cut into many custom shapes. When cutting strips, it is important to use only the pre-marked cut lines on the sheet and also to maintain electrical contact. The images below represent the smallest possible linear routing types. The green box represents strip routing types that work by preserving the electrical connection, and the one in red represents a routing type that will not function correctly due to interruptions of the electrical connection.



## STRIP FLEXIBILITY

Hard bends can be made up to 90° in either direction.

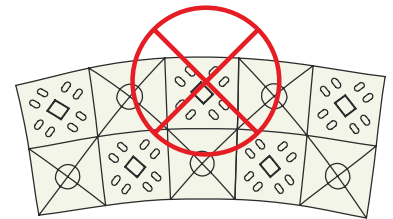


Soft bends less than 1.5 in. may damage circuit traces and void warranty.



Bending strips sheets or sections at sharp angles will damage circuit traces and void warranty.

Bending strip sheets or sections on horizontal plane will damage circuit traces and void warranty.



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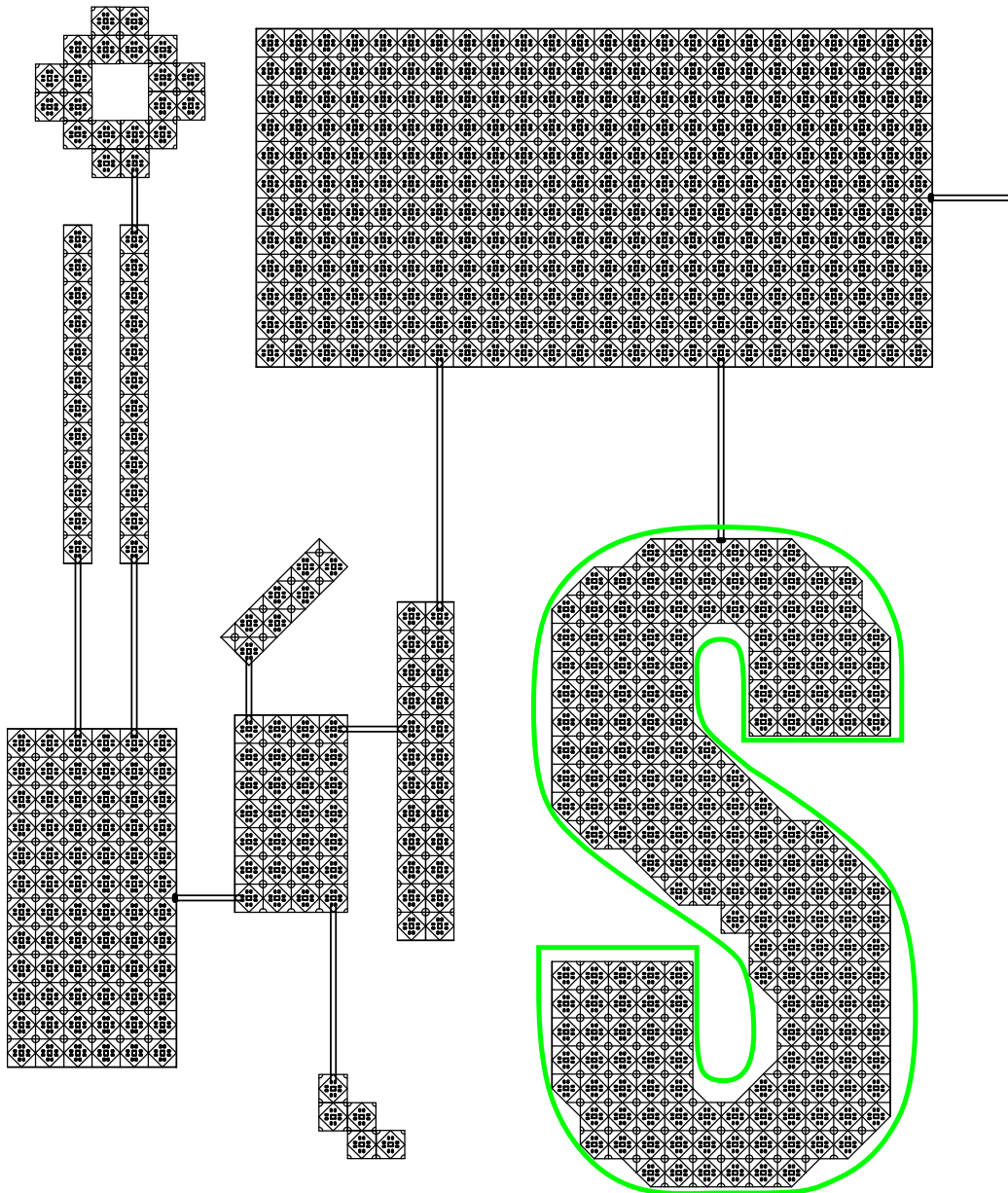


## LLS LED Sheets

Single CCT and Tunable White Sheet Specifications

### APPLICATION

Below are examples of the types of shapes and patterns that can be made and linked as needed to fit nearly any application. The only limiting factor is max run (see spec table), which can be easily extended by connecting additional power supplies<sup>3</sup>. Additional power supplies can connect to any individual square LED segment anywhere in the run for maximum flexibility.



<sup>3</sup>Each power connection will need its own connected controller when multiple power supplies are connected to one run. Controllers that can synchronize their settings are required for this type of application.



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