

## Features

Kurba Large is a dot free direct view, highly versatile, energy efficient and flexible LED strip. Suitable for submersion max 16 ft deep and capable of horizontal/side bends and vertical/top bends with a 6" bending radius.

### Output Option

Smart Pixel offerings allow for infinite color combinations with cascading and chasing effects

### Average Life

50,000 hours

### Approvals

24VDC Class 2 wet listed, IP68

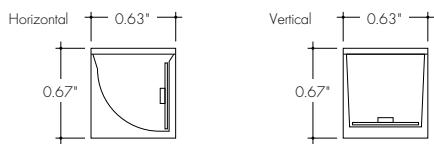
### Warranty

5 years

### Materials

PVC Material for high chlorine resistance.

Fresh water, sea water (salinity  $\leq$ 4%), swimming pool (chlorine  $\leq$ 5ppm, ozone  $\leq$ .3ppm)



### Finish Options

(see page 2 for additional information)

Base  White



## Technical Information

Bending Direction	Horizontal	Vertical
Output	SPI88SO	SPI88SO
Light Output at RGB30K	234 lm/ft	237 lm/ft
Average Power Consumption at 4'	6.71 W/ft	6.71 W/ft
Efficacy	35 lm/W	35 lm/W
Ordering Increment	3.28"	3.28"
Maximum Run Length (In Series)	14'	14'
Operating Temperature Range	-4°F to 95°F	-4°F to 95°F
Control/Dimming Protocol	SPI Protocol UCS 2904	SPI Protocol UCS 2904

## Ordering Code

MODEL	BEND DIRECTION	LENGTH	OUTPUT <sup>1</sup>	CCT	CRI	LENS <sup>3</sup>	MOUNTING	FINISH	FEED POSITION LEFT	FEED POSITION RIGHT
KBLPL-Kurba Large Pool	HB-Horizontal Bending VB-Vertical Bending	SEE PCC CHART ON PAGE 5	SPI88SO-Smart Pixel Control, Standard Output	RGB27K-RGB 2700K RGB30K-RGB 3000K RGB40K-RGB 4000K	R80-80CRI	F-Frosted	NA-See Page 4 for orderable mounting accessories	WH-White	DUAL INJECTION MOLD DME-End Feed 1 DMB-Back Feed 1 DMSA-Side A Feed DMSB-Side B Feed <sup>3</sup> NPF-No Power Feed <sup>4</sup>	DUAL INJECTION MOLD DME-End Feed 1 DMB-Back Feed 1 DMSA-Side A Feed DMSB-Side B Feed <sup>3</sup> NPF-No Power Feed <sup>4</sup>

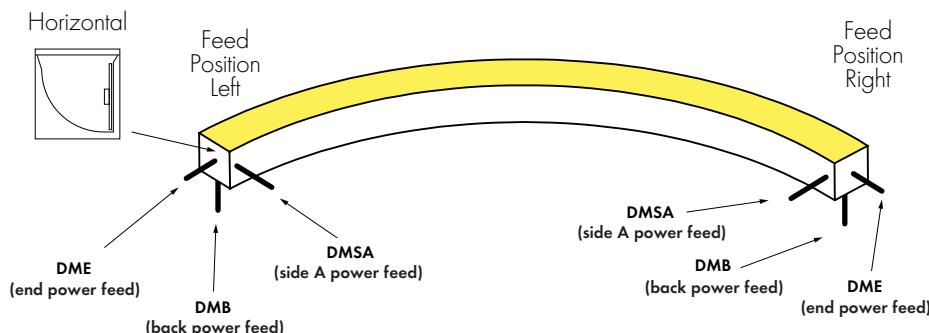
<sup>1</sup> - DMSB - Side B Feed not available with HB - Horizontal Bending

<sup>2</sup> - NPF-NPF for Feed Position 1&2 is not a valid configuration option

Feeds come with 30' wire leads

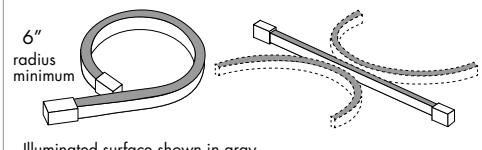
## Powerfeeds and Connectors

### Power Feed Position Options and Orientation



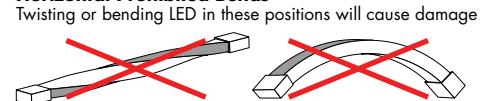
NOTE: IMSB - Side B Feed not available with HB - Horizontal Bending

### Horizontal Bend Direction



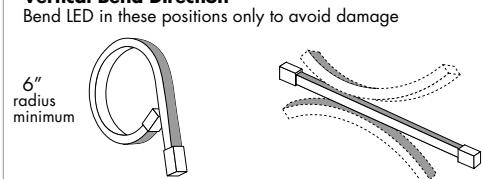
Illuminated surface shown in gray

### Horizontal Prohibited Bends



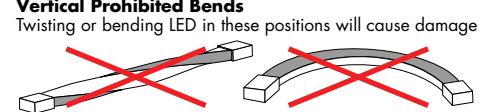
Illuminated surface shown in gray  
Do not make sharp bends near the endcap

### Vertical Bend Direction



Bend LED in these positions only to avoid damage

### Vertical Prohibited Bends

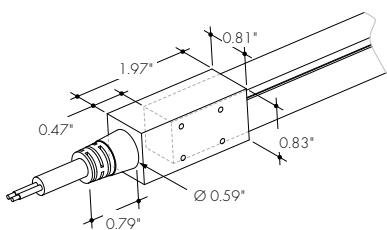


Illuminated surface shown in gray  
Do not make sharp bends near the endcap

### Linking and Extension Cable Options

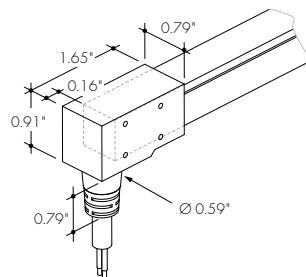
#### END CONNECTOR

Dual Injection-molded End Connector  
-DME



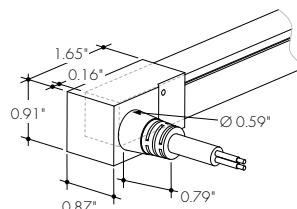
#### BACK CONNECTOR

Dual Injection-molded Back Connector  
-DMB



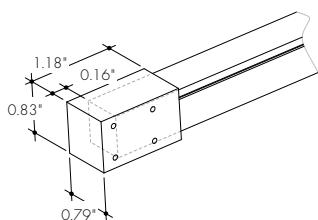
#### SIDE CONNECTOR

Dual Injection-molded Side Connector  
-DMSA and -DMSB



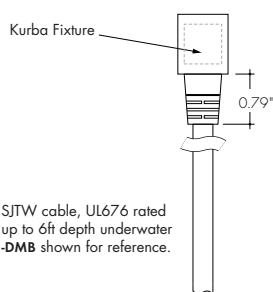
#### ENDCAP (NO CONNECTOR)

Dual Injection-molded Cap (No Connector)  
-NPF



#### SJTW CABLE

Included on every power feed wire



SJTW cable, UL676 rated  
up to 6ft depth underwater  
-DMB shown for reference.

#### POWER FEED OPTIONS

Feeds come with 30' wire leads

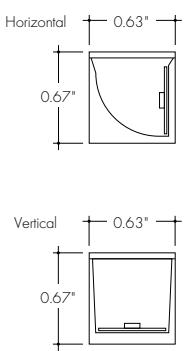
WH/RED/GRN/BLU BK



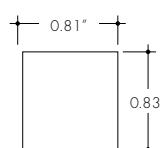
3 Conductor  
18 AWG, SJTW

## Product Dimensions

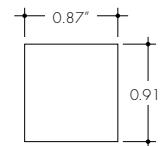
### Kurba Large Pool Rated Cross Sections



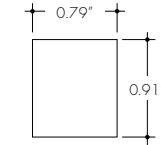
#### Example Feed Position DME - NPF End Feed 1 to No Power Feed



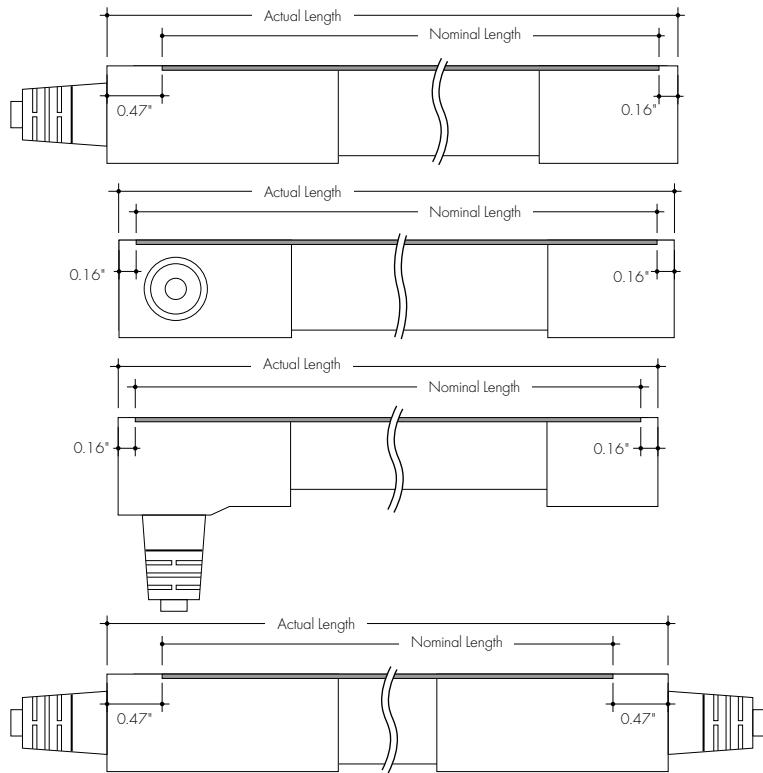
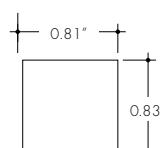
#### Example Feed Position DMSA - NPF Side A Feed to No Power Feed



#### Example Feed Position DMB - NPF Back Feed 1 to No Power Feed



#### Example Feed Position DME - DME End Feed 1 and End Feed 1



## Finish Options

- A wide variety of finish options allowing complete customization of style and aesthetic.

### White Base



Kurba's base finish is a crisp white which brings a timeless, clean aesthetic that brightens and enhances any space

## Light Transmission and Dotting

Output Options	Lens/Accessory		
	Silicone Frosted/ White Finish	ND	
Transmission Percentage	100%	CD	SD
		CD - Clear Dotting	SD - Slight Dotting
		ND	ND - No Dotting

## Mounting Accessories and Optional Connectors

### MC-PLSTC-KBL-78

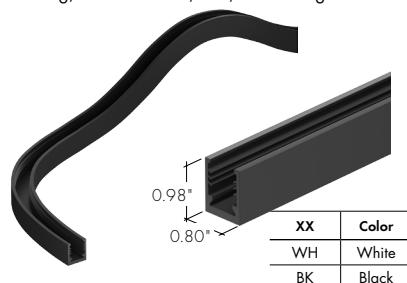
Thickened Plastic Mounting Channel for underwater application, 78"



Includes 10 mounting screws

### MC-KBL-BANP-3D-SM-39-XX

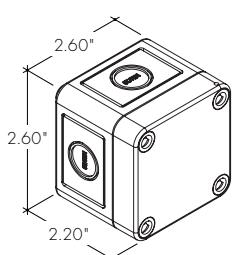
KBL Mounting Channel, Bendable Silicone Profile, 3D Bending, Surface Mount, 39", 6" bending radius



Includes 12 mounting screws

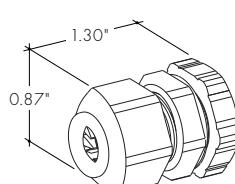
### LVSP-WET

Splice box: wet rated, low voltage, gray, IP66



### LVSP-WET-CM

Connector for splice box, low voltage for cable management, gray



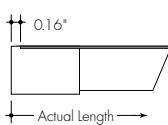
## SPI88SO | Power Consumption Per Fixture Length

Based on operation with PS-UNI series of power supplies. Use Actual Length for Order Code Entry.  
 Tolerance for Actual Lengths less than 6 ft is +/- 0.2", Actual Lengths between 6 ft and 16 ft is +/- 0.3", and Actual Lengths greater than 16 ft is +/- 0.6"  
 A - End Connector at both ends of Kurba (0.47" + 0.47" added to overall length)  
 B - End Connector at one end of Kurba and No Connector or Back Connector or Side Connector at other end of Kurba (0.47" + 0.16" added to overall length)  
 C - Any combination of No Connector, Back Connector, or Side Connector on each end of Kurba (0.16" + 0.16" added to overall length)

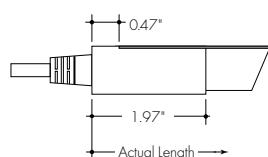
Actual Length (in)						Actual Length (in)					
Nominal Length (in)	W	A	B	C	Pixel QTY	Nominal Length (in)	W	A	B	C	Pixel QTY
7	<b>4.2</b>	7.5	7.2	6.9	2	<b>125</b>	<b>63.2</b>	125.6	125.3	125.0	38
10	<b>6.0</b>	10.8	10.5	10.2	3	<b>128</b>	<b>64.8</b>	128.9	128.6	128.3	39
(1 ft) 14	<b>7.9</b>	14.1	13.8	13.4	4	(11 ft) 132	<b>66.5</b>	132.2	131.9	131.5	40
17	<b>9.7</b>	17.3	17.0	16.7	5	<b>135</b>	<b>68.1</b>	135.4	135.1	134.8	41
20	<b>11.5</b>	20.6	20.3	20.0	6	<b>138</b>	<b>69.8</b>	138.7	138.4	138.1	42
(2 ft) 23	<b>13.4</b>	23.9	23.6	23.3	7	<b>141</b>	<b>71.4</b>	142.0	141.7	141.4	43
27	<b>15.2</b>	27.2	26.9	26.6	8	(12 ft) 145	<b>73.1</b>	145.3	145.0	144.7	44
30	<b>17.0</b>	30.5	30.2	29.8	9	<b>148</b>	<b>74.7</b>	148.6	148.3	148.0	45
33	<b>18.9</b>	33.7	33.4	33.1	10	<b>151</b>	<b>76.4</b>	151.9	151.5	151.2	46
(3 ft) 36	<b>20.7</b>	37.0	36.7	36.4	11	(13 ft) 155	<b>78.0</b>	155.1	154.8	154.5	47
40	<b>22.5</b>	40.3	40.0	39.7	12	<b>158</b>	<b>79.7</b>	158.4	158.1	157.8	48
43	<b>24.4</b>	43.6	43.3	43.0	13	<b>161</b>	<b>81.3</b>	161.7	161.4	161.1	49
46	<b>26.2</b>	46.9	46.6	46.2	14	<b>164</b>	<b>83.0</b>	165.0	164.7	164.4	50
(4 ft) 50	<b>28.0</b>	50.2	49.8	49.5	15	(14 ft) 168	<b>84.6</b>	168.3	167.9	167.6	51
53	<b>26.9</b>	53.4	53.1	52.8	16	<b>171</b>	<b>86.3</b>	171.5	171.2	170.9	52
56	<b>28.5</b>	56.7	56.4	56.1	17						
(5 ft) 59	<b>30.2</b>	60.0	59.7	59.4	18						
63	<b>31.8</b>	63.3	63.0	62.7	19						
66	<b>33.5</b>	66.6	66.2	65.9	20						
69	<b>35.1</b>	69.8	69.5	69.2	21						
(6 ft) 73	<b>36.8</b>	73.1	72.8	72.5	22						
76	<b>38.4</b>	76.4	76.1	75.8	23						
79	<b>40.1</b>	79.7	79.4	79.1	24						
(7 ft) 82	<b>41.7</b>	83.0	82.6	82.3	25						
86	<b>43.4</b>	86.2	85.9	85.6	26						
89	<b>45.0</b>	89.5	89.2	88.9	27						
92	<b>46.7</b>	92.8	92.5	92.2	28						
(8 ft) 96	<b>48.3</b>	96.1	95.8	95.5	29						
99	<b>50.0</b>	99.4	99.1	98.7	30						
102	<b>51.6</b>	102.6	102.3	102.0	31						
105	<b>53.3</b>	105.9	105.6	105.3	32						
(9 ft) 109	<b>54.9</b>	109.2	108.9	108.6	33						
112	<b>56.6</b>	112.5	112.2	111.9	34						
115	<b>58.2</b>	115.8	115.5	115.1	35						
(10 ft) 118	<b>59.9</b>	119.0	118.7	118.4	36						
122	<b>61.5</b>	122.3	122.0	121.7	37						

Note: all values are rounded to the nearest 0.1 inch

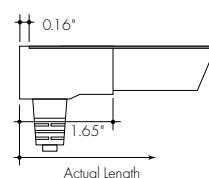
Dual injection Molded End Cap (DME)



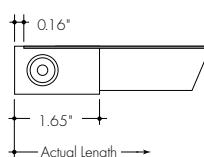
Dual injection Molded End Power Feed (DME)



Dual injection Molded Bottom Power Feed (DMB)



Dual injection Molded Side Power Feed (DMSA - DMSB)



## Power Supplies

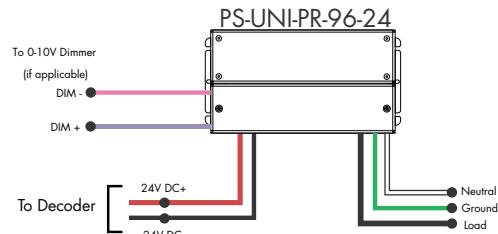
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

### Ordering Code - Universal Power Supply 1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	POWER	OUTPUT
PS - Pool & Spa Rated Power Supply	UNI - 0-10V, Phase Dimming	PR - Pool Rated	96 - 96 W	24 - 24 VDC

0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.

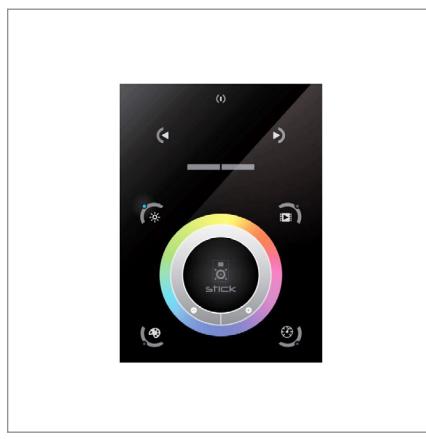
**Compatibility:** View a complete list of compatible dimmers on the PS-UNI-PR-96-24 product page.



MODELS	PS-UNI-PR-96-24
Length	8.71"
Width	4.56"
Depth	1.86"

## Touch DMX Controller

Touchscreen digital LED controller



ORDERING CODE

MODEL

**TSDMX-E**

TSDMX-E - Touchscreen DMX controller

Programmable advanced DMX512 lighting controller featuring a touch-screen interface. Operates as stand alone controller or integrated with most architectural lighting control systems. Can control endless DMX512 enabled devices.

Mounts to standard single or dual gang wall box with the included power supply inside the junction box. Terminal block design for power and data connections.

### Features

- Sleek glass design which sits 0.43" from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control

### Power Supply

7 VDC (included)

### Programmability

PC, Mac, Tablet, Smartphone

### Output Signal

DMX512 (1024 channels)

### Color Parameters

- Brightness
- Saturation
- Speed of color changing sequence
- Fading / dimming / brightness

## Smart Pixel Decoder

SPI signal to DMX signal decoder



ORDERING CODE

MODEL

**SR-DMX-SPI**

SR-DMX-SPI - Smart Pixel Decoder

The SR-DMX-SPI is a smart LED pixel decoder that controls RGB/RGBW pixel LED strips with SPI signal. Designed with an OLED backlit panel, the pixel controller allows for easy configuration of most settings. Four push buttons are available for control of the LED functions.

\*For pixel only.

### Features

- 2 in 1 in-Wall Controller: DMX Control or Wireless RGB-W
- SPI signal output for RGB/RGBW pixel light control
- DMX512 controllable and RF/WIFI remote controllable
- Capable of addressing up to 1020 RGB pixels & 765 RGBW pixels
- OLED panel allows for easy configuration

### Operating Voltage

12 - 36V DC

### Power capacity

up to 96W at 24V

### Operating temperature range

from -4°F to +122°F in case