Kurba Large Pool Horizontal and Vertical | Field Bendable 24V System

optic arts by luminii

Features

Kurba Large is a dot free direct view, highly versatile, energy efficient and flexible LED strip. Suitable for submersion max 6 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

Approvals
24VDC Class 2 wet listed, IP68
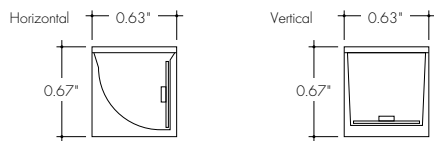
Materials
PVC Material for high chlorine resistance

Average Life
50,000 hours

Warranty
3 years

Horizontal — 0.63"   0.67"

Vertical — 0.63"   0.67"

Finish Options (see page 2 for additional information)

Base   ☐ White

Premium ■ Black   ■ Red   ■ Green   ■ Blue

c UL us LISTED   Declare.   CE   RoHS   DIM   IP68

Technical Information

Bending Direction	Horizontal	Vertical
Output	SPI26SO	SPI26SO
Light Output at 3000K	242 lm/ft	286 lm/ft
Average Power Consumption at 4'	6.71 W/ft	6.71 W/ft
Efficacy	36 lm/W	43 lm/W
Ordering Increment	3.28"	3.28″
Maximum Run Length (In Series)	13′	13′
Operating Temperature Range	-40°F to 113°F	-40°F to 113°F
Control/Dimming Protocol	SPI Protocol UCS 2904	SPI Protocol UCS 2904

Constraints

Horizontal Bend Direction
Bend LED in these positions only to avoid damage

6″ radius minimum

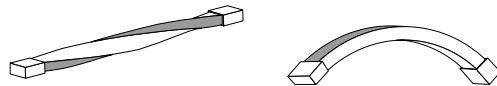Illuminated surface shown in gray

Vertical Bend Direction
Bend LED in these positions only to avoid damage

6″ radius minimum
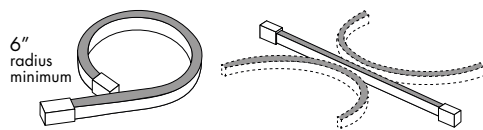
Illuminated surface shown in gray

Horizontal Prohibited Bends
Twisting or bending LED in these positions will cause damage

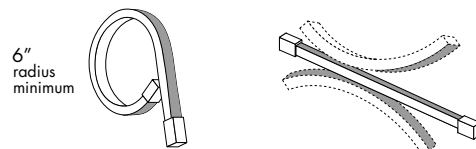Illuminated surface shown in gray
Do not make sharp bends near the endcap

Vertical Prohibited Bends
Twisting or bending LED in these positions will cause damage

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

Ordering Code

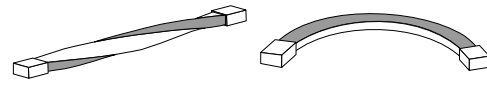| MODEL	RATING	BEND DIRECTION	LENGTH	OUTPUT[1]	CCT[2]	LENS[3]	MOUNTING	FINISH[4]	FEED POSITION LEFT	FEED POSITION RIGHT
KBL - Kurba Large	**PL** - Pool	**HB** - Horizontal Bending **VB** - Vertical Bending	SEE PCC CHART ON PAGE 5	**SPI26SO** - Smart Pixel Control, Standard Output	**RGB26K** - RGB 2600K **RGB27K** - RGB 2700K **RGB30K** - RGB 3000K **RGB40K** - RGB 4000K	**F** - Frosted **BL** - Black Lens	**NA** - See Page 4 for orderable mounting accessories	**WH** - White **BK** - Black **RED** - Red **GRN** - Green **BLU** - Blue	**INJECTION MOLD** **IME** - End Feed 1 **IMB** - Back Feed 1 **IMSA** - Side 1 Feed **IMSB** - Side 2 Feed[4] **NPF** - No Power Feed[5]	**INJECTION MOLD** **IME** - End Feed 1 **IMB** - Back Feed 1 **IMSA** - Side 1 Feed **IMSB** - Side 2 Feed[4] **NPF** - No Power Feed[5]

Feeds come with 30' wire leads

1 - Title 24 JA8 compliance achievable, contact factory for specific requests
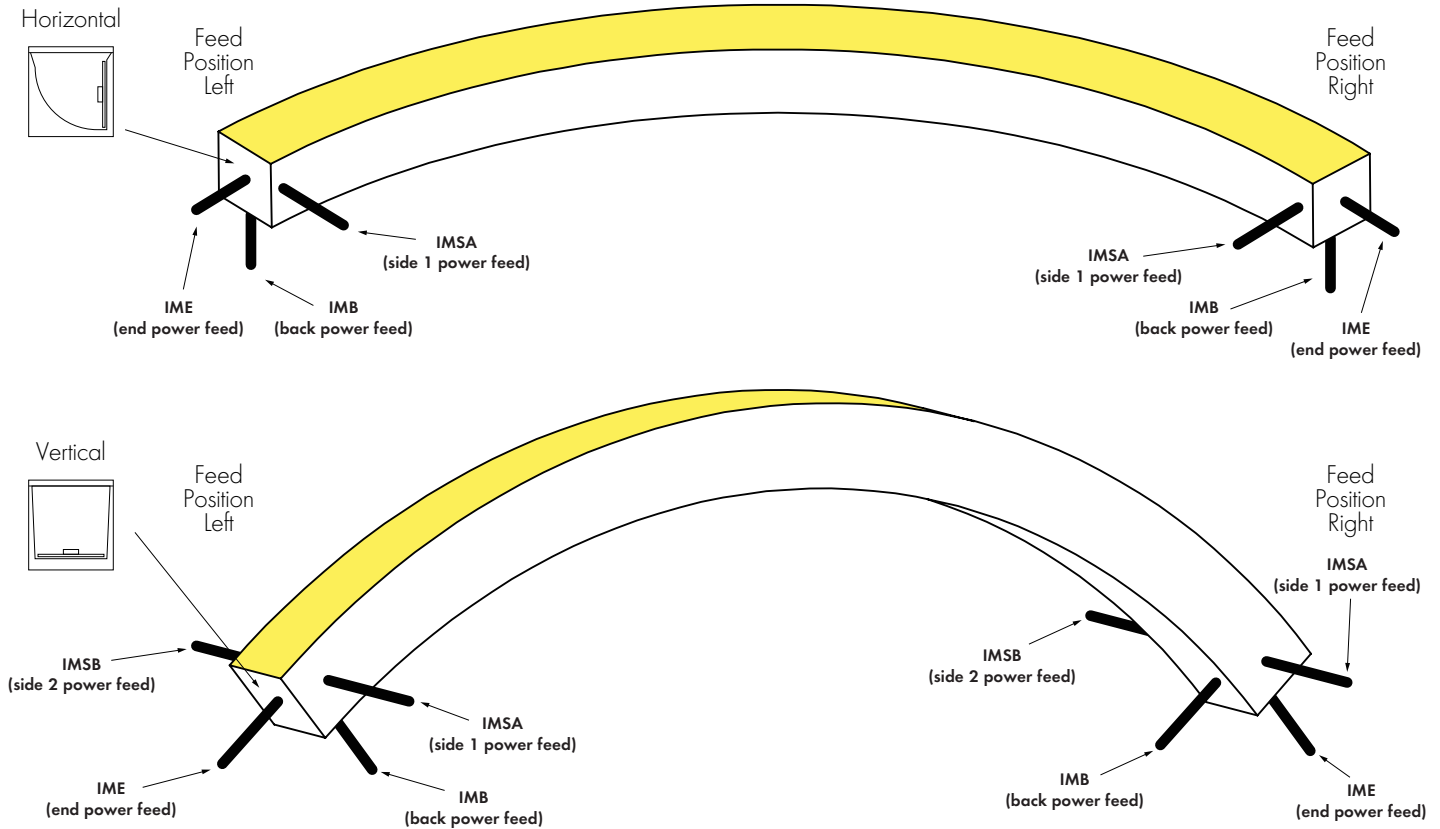2 - Black Lens only available with **RGB26K** CCT options
3 - **BL** - Black Lens can only be used with **BK** - Black Finish
4 - Red, Green, and Blue finishes have an MOQ of 350ft
5 - **IMSB** - Side 2 Feed not available with **HB** - Horizontal Bending
6 - **NPF-NPF** for Feed Position 1&2 is not a valid configuration option

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Powerfeeds and Connectors

Power Feed Position Options and Orientation

Horizontal

Feed Position Left

Feed Position Right

IMSA (side 1 power feed)

IME (end power feed)

IMB (back power feed)

IMSA (side 1 power feed)

IMB (back power feed)

IME (end power feed)

Vertical

Feed Position Left

Feed Position Right

IMSB (side 2 power feed)

IMSA (side 1 power feed)

IME (end power feed)

IMB (back power feed)

IMSB (side 2 power feed)

IMSA (side 1 power feed)

IMB (back power feed)

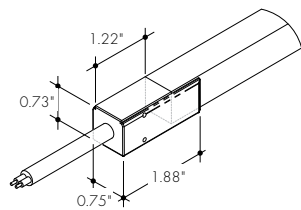IME (end power feed)

NOTE: **IMSB** - Side 2 Feed not available with **HB** - Horizontal Bending

Linking and Extension Cable Options

END CONNECTOR
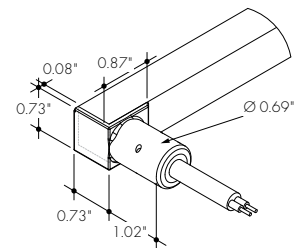Injection-molded End Connector
-IME

1.22"
0.73"
1.88"
0.75"

BACK CONNECTOR
Injection-molded Back Connector
-IMB

0.75"
0.08"
0.75"
0.75"
1.02"
Ø 0.69"
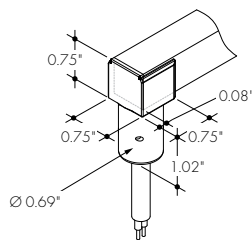
SIDE CONNECTOR
Injection-molded Side Connector
-IMSA and **-IMSB**

0.08"
0.87"
0.73"
Ø 0.69"
0.73"
1.02"

ENDCAP (NO CONNECTOR)
Injection-molded Cap (No Connector)
-NPF

0.08"
0.69"
0.67"
0.75"
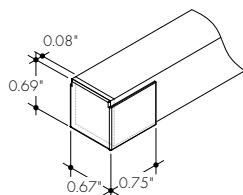
ANTI-WICKING FERRULE
Included on every power feed wire

Kurba Fixture

0.43"
4.50" ± 0.40"

Anti-Wicking Ferrule

1.18"

Included on every power feed wire. For protection against water ingress from inside of wire. **-IMB** shown for reference.

0.59"

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Product Dimensions

Kurba Large Pool Rated Cross Sections

Horizontal
0.63"
0.67"

Vertical
0.63"
0.67"

Example Feed Position
IME - NPF
End Feed 1 to
No Power Feed

0.75"
0.73"

Actual Length
Nominal Length
1.22"
0.08"

Example Feed Position
IMSA - NPF
Side 1 Feed to
No Power Feed

0.73"
0.73"

Actual Length
Nominal Length
0.08"
0.08"

Example Feed Position
IMB - NPF
Back Feed 1 to
No Power Feed

0.75"
0.75"

Actual Length
Nominal Length
0.08"
0.08"

Example Feed Position
IME - IME
End Feed 1 and
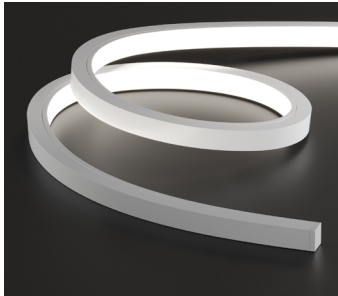End Feed 1

0.75"
0.73"

Actual Length
Nominal Length
1.22"
1.22"

Finish Options

- A wide variety of finish options allowing complete customization of style and aesthetic.
- Red, Green, and Blue finishes have an minimum order quantity of 350ft

White
Base

Kurba's base finish is a crisp white which brings a timeless, clean aesthetic that brightens and enhances any space
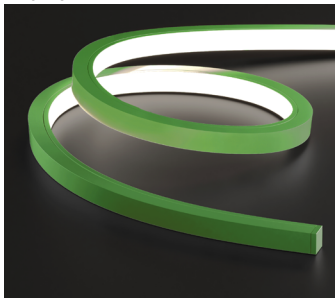
Black Finish w/ Black Lens
Premium

On
Off

Also available with a blackout aesthetic - the Black Lens paired with the Black Finish provides for a sleek, all black profile that keeps the strip concealed in the off-state.
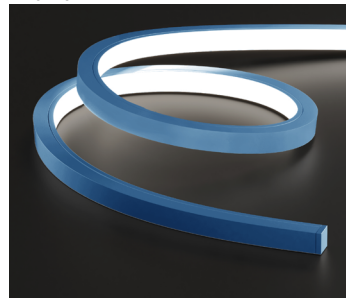
Red
Premium
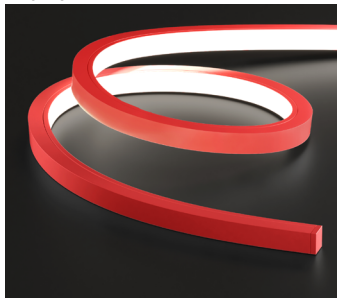
Red adds a bright and bold statement, perfect for creating a striking and dynamic vambiance with its vibrancy

Green
Premium

Green embraces a refreshing and natural feel, reminiscent of emerald green, add touch of tranquility and harmony to your space with this option

Blue
Premium

Blue evokes the serenity of the deep sea by combining vivid cobalt and azure tones.

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Light Transmission and Dotting

| Output Options	Lens/Accessory					
	Silicone Frosted/ White Finish	Silicone Frosted/ Red Finish	Silicone Frosted/ Green Finish	Silicone Frosted/ Blue Finish	Silicone Frosted/ Black FInish	Black Lens/ Black Finish
SPI26SO	ND	ND	ND	ND	ND	ND
Transmission Percentage	100%	80%	80%	80%	80%	17%
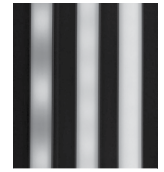
CD   SD   ND

CD - Clear Dotting
SD - Slight Dotting
ND - No Dotting

Mounting Accessories and Optional Connectors
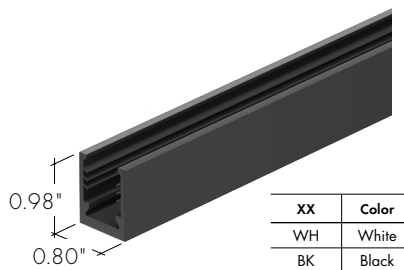
MC-NFP-KBL-78
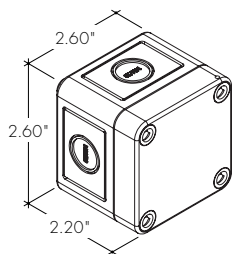Thickened Plastic Mounting Channel for underwater application, 78"

0.93"
78.0"
0.79"
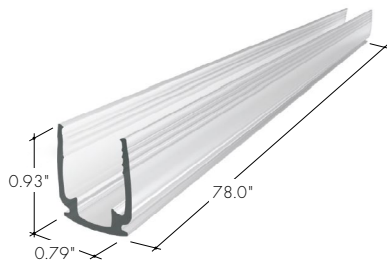
MC-KBL-BANP-3D-SM-39-XX
KBL Mounting Channel, Bendable Silicone Profile, 3D Bending, Surface Mount, 39", 6" bending radius

0.98"
0.80"

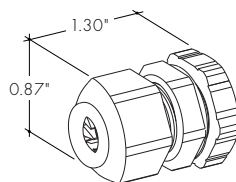| XX	Color
WH	White
BK	Black

LVSP-WET
Splice box: wet rated, low voltage, gray

2.60"
2.60"
2.20"

LVSP-WET-CM
Connector for splice box, low voltage for cable management, gray
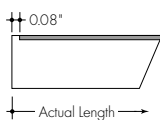
1.30"
0.87"

SPI26SO | Power Consumption Per Fixture Length

Based on operation with PDCU series of power supplies. Use Acutal 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 (1.22" + 1.22" 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 (1.22" + 0.08" added to overall length)
C - Any combination of No Connector, Back Connector, or Side Connector on each end of Kurba (0.08" + 0.08" added to overall length)

Nominal Length (in)	W	Actual Length (in) A	B	C	Pixel QTY	Nominal Length (in)	W	Actual Length (in) A	B	C	Pixel QTY
7	5.0	9.0	7.9	6.7	2	125	63.9	127.1	126.0	124.8	38
10	6.9	12.3	11.1	10.0	3	128	65.6	130.4	129.2	128.1	39
(1 ft) 14	8.7	15.6	14.4	13.3	4	(11 ft) 32	67.2	133.7	132.5	131.4	40
17	10.5	18.8	17.7	16.6	5	135	68.9	136.9	135.8	134.7	41
20	12.4	22.1	21.0	19.8	6	138	70.5	140.2	139.1	137.9	42
(2 ft) 23	14.2	25.4	24.3	23.1	7	141	72.2	143.5	142.4	141.2	43
27	16.0	28.7	27.5	26.4	8	(12 ft) 145	73.8	146.8	145.7	144.5	44
30	17.9	32.0	30.8	29.7	9	148	75.5	150.1	148.9	147.8	45
33	19.7	35.2	34.1	33.0	10	151	77.1	153.4	152.2	151.1	46
(3 ft) 36	21.5	38.5	37.4	36.2	11	(13 ft) 155	78.8	156.6	155.5	154.4	47
40	23.4	41.8	40.7	39.5	12						
43	25.2	45.1	43.9	42.8	13						
46	27.0	48.4	47.2	46.1	14						
(4 ft) 50	28.9	51.7	50.5	49.4	15			Note: all values are rounded to the nearest 0.1 inch			
53	27.6	54.9	53.8	52.7	16						
56	29.3	58.2	57.1	55.9	17						
(5 ft) 59	30.9	61.5	60.4	59.2	18						
63	32.6	64.8	63.6	62.5	19						
66	34.2	68.1	66.9	65.8	20						
69	35.9	71.3	70.2	69.1	21						
(6 ft) 73	37.5	74.6	73.5	72.3	22						
76	39.2	77.9	76.8	75.6	23						
79	40.8	81.2	80.0	78.9	24						
(7 ft) 82	42.5	84.5	83.3	82.2	25						
86	44.1	87.7	86.6	85.5	26						
89	45.8	91.0	89.9	88.7	27						
92	47.4	94.3	93.2	92.0	28						
(8 ft) 96	49.1	97.6	96.4	95.3	29						
99	50.7	100.9	99.7	98.6	30						
102	52.4	104.1	103.0	101.9	31						
105	54.0	107.4	106.3	105.1	32						
(9 ft) 109	55.7	110.7	109.6	108.4	33						
112	57.3	114.0	112.8	111.7	34						
115	59.0	117.3	116.1	115.0	35						
(10 ft) 118	60.6	120.5	119.4	118.3	36						
122	62.3	123.8	122.7	121.5	37						

Injection Molded End Cap (IME)

0.08"
Actual Length

Injection Molded End Power Feed (IME)

1.22"
1.88"
Actual Length
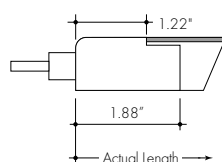
Injection Molded Bottom Power Feed (IMB)

0.08"
0.75"
Actual Length
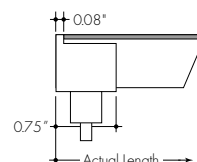
Injection Molded Side Power Feed (IMSA)

0.08"
0.87"
Actual Length
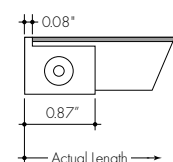
Power Supplies

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.

Universal Power Supply 1% 120VAC - 277VAC

PS-UNI-PR-96-24

MODEL	INPUT CONTROL	ENVIRONMENT	POWER	OUTPUT
-	-	-	-	

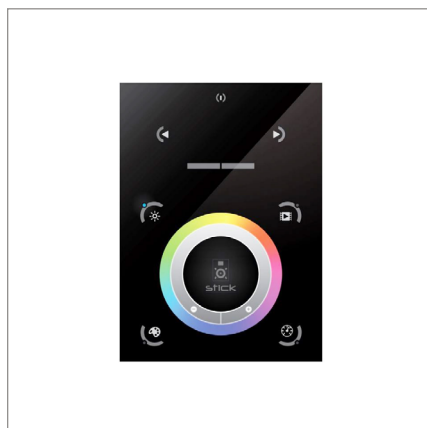|				
PS - Pool & Spa Rated Power Supply	**UNI** - 0-10V, Phase Dimming	**PR** - Pool Rated	**96** - 96 W	**24** - 24 VDC

0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.
For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

To 0-10V Dimmer (if applicable)
DIM -
DIM +
To Decoder
24V DC+
24V DC-
Neutral
Ground
Load
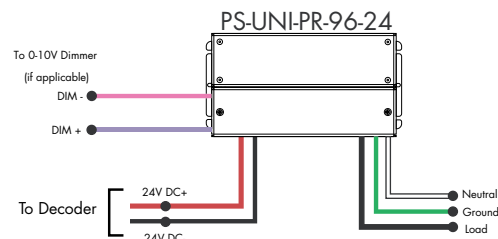
MODELS	**PS-UNI-PR-96-24**
Length	8.71"
Width	4.56"
Depth	1.86"

Touch DMX Controller

Touchscreen digital LED 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 controller 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

ORDERING CODE

MODEL

TSDMX-E

TSDMX-E - Touchscreen DMX controller

Smart Pixel Decoder

SPI signal to DMX signal 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

ORDERING CODE

MODEL

SR-DMX-SPI

SR-DMX-SPI - Smart Pixel Decoder