Kurba Large Vertical Pixel RGBW | Flexible LED strip - 24 VDC

optic arts by luminii

Features

Kurba Large Vertical Pixel RGBW is a light strip with a sleek, direct view profile. Infinite RGBW lighting possibilities are now achievable with ease. Advanced design allows for animation effects such as cascading and chasing at the granular level. Capable of vertical/ top bends up to 6" radius and built with robust factory made power feeds and end caps, Kurba Large Vertical Pixel RGBW mounts to a specifically designed extruded aluminum channel.

Applications
Outdoor wet location

Operating Voltage
24VDC

Operating Temperature
-4°F to 113°F (-20°C to 45°C)

Average Life
50,000 hours

Approvals
Class 2 wet listed, IP67

Warranty
3 years

c(UL)us LISTED
RoHS
CE
DIM
RGBW
IP67 Wet Rated IP67

Technical Information

| Model	KBL-F-V-SPI-RGBW30K
LEDs/ft	26
Light Output	Red: 24 lm/ft Green: 58 lm/ft Blue: 9 lm/ft White: 58 lm/ft All On: 116 lm/ft
Average Power Consumption at 4'	6.7 W/ft
Ordering Increment / Pixel Length	3.28"
Maximum Run Length (In Series)	16 ft
DMX Addresses Occupied	4 channels per pixel

Constraints

Bend Direction
Bend LED in these positions only to avoid damage

6" radius minimum
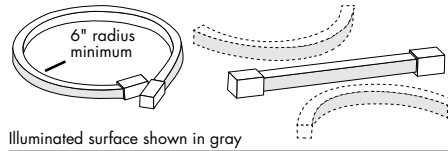
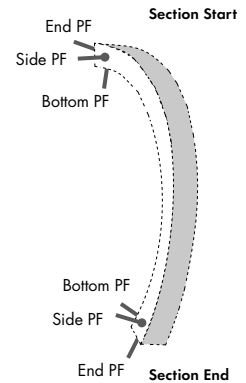Illuminated surface shown in gray

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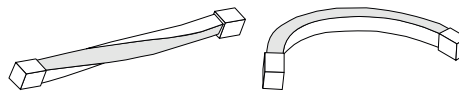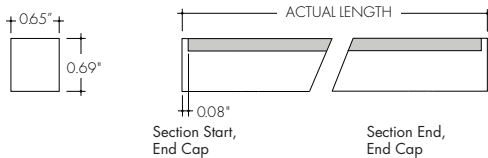

Illuminated surface shown in gray
Note: for horizontal bends refer to Luminii KBM series
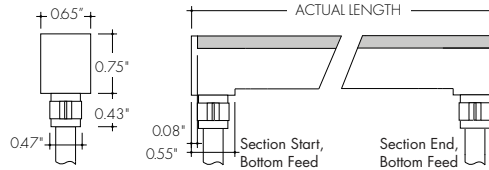**Do not make sharp bends near the endcap**
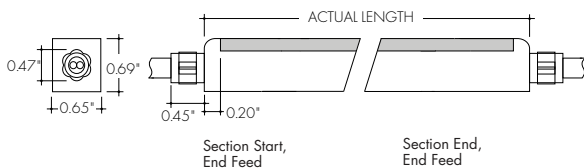
Power Feed Locations

Section Start
End PF
Side PF
Bottom PF

Bottom PF
Side PF
End PF
Section End

Section Start/End Power Feed Options

Injection Molded End Cap (IEC)

0.65"
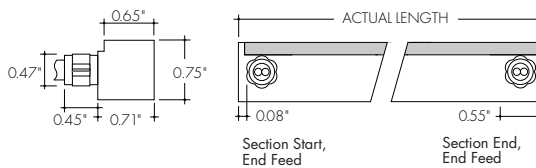0.69"
ACTUAL LENGTH
0.08"
Section Start, End Cap
Section End, End Cap

Injection Molded End Power Feed (IEPF)

0.47"
0.69"
0.65"
ACTUAL LENGTH
0.45" 0.20"
Section Start, End Feed
Section End, End Feed

Injection Molded Bottom Power Feed (IBPF)

0.65"
0.75"
0.43"
0.47"
0.08"
0.55"
ACTUAL LENGTH
Section Start, Bottom Feed
Section End, Bottom Feed

Injection Molded Side Power Feed (ISPF)

0.47"
0.65"
0.75"
0.45" 0.71"
ACTUAL LENGTH
0.08"
0.55"
Section Start, End Feed
Section End, End Feed

0.43"
4.50" ± 0.40"
1.18"
0.59"
Anti-Wicking Ferrule

Included on every power feed wire. For protection against water ingress from inside of wire. IBPF shown for reference.
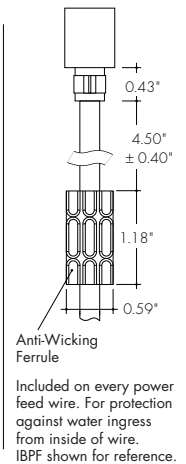
Ordering Code

MODEL	COLOR	SECTION START	SECTION END	ACTUAL LENGTH
KBL-F-V - Kurba Large, Flat, Vertical	SPI-RGBW30K - RGBW Smart Pixel Control (3000K) SPI-RGBW40K - RGBW Smart Pixel Control (4000K)	IEC - Injection Molded End Cap[1] IEPF - Injection Molded End Power Feed (9' wire lead)[1] IBPF - Injection Molded Bottom Power Feed (9' wire lead)[1] ISPF - Side Power Feed (9' wire lead)[1,2]	IEC - Injection Molded End Cap[1] IEPF - Injection Molded End Power Feed (9' wire lead)[1] IBPF - Injection Molded Bottom Power Feed (9' wire lead)[1] ISPF - Side Power Feed (9' wire lead)[1,2]	See Power Consumption table on page 4 for available lengths

1 - 6-8 weeks lead time. Kurba injected-molded orders are non-cancellable. IEPF, IBPF, ISPF cannot be mixed and matched from Start to End except with IEC.
2 - ISPF Side power feeds selected for both Section Start and End will be located on the same side of the strip.

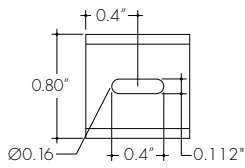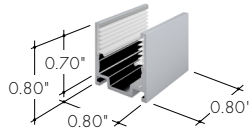## Mounting Accessories & Optional Connectors

MC-NFS-KBL-F-V-78
Mounting Channel with Grip, 78"
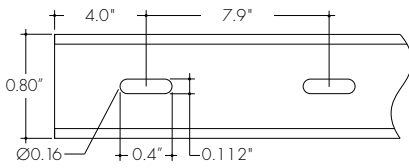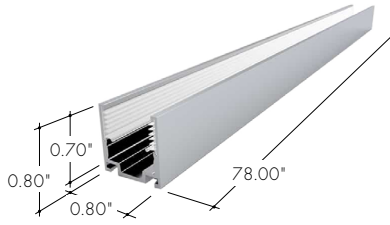
Aluminum mounting channel providing grip. For use with light strip mounted to the ceiling.
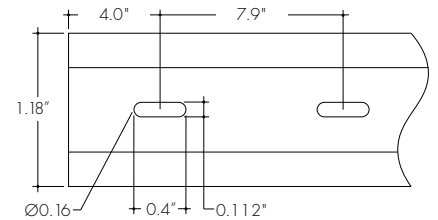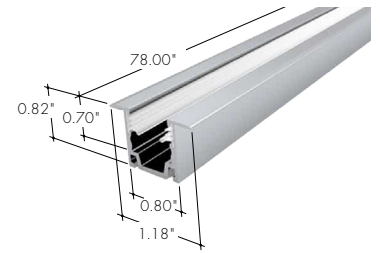
MB-KBL-F-V-ST
Mounting Bracket with Grip

Aluminum mounting bracket providing grip. For use with light strip mounted to the ceiling. 1 recommended every 8 in.

MC-FS-KBL-F-V-78
Flanged Mounting Channel with grip, 78"

Flanged aluminum mounting channel providing grip. For use with light strip mounted to the ceiling.
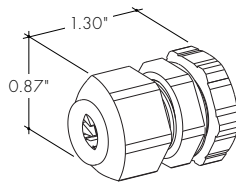
MC-BNS-KBL-F-V-34
Bendable Mounting Channel with grip, 34"
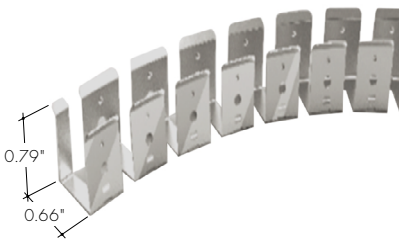
Bendable stainless steel mounting channel providing grip. For use with light strip mounted to the ceiling.
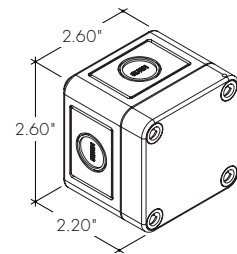
LVSP-WET-CM
Connector

Low voltage splice box wet cable management, gray.

LVSP-WET
Splice Box

Wet rated, low voltage splice box, gray.

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"
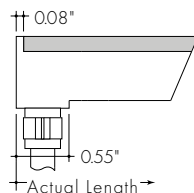
Nominal Length [inches]	W	Actual Length [inches]			Nominal Length [inches]	W	Actual Length [inches]		
		IEPF IEPF	IEC IEPF	IEC IBPF ISPF			IEPF IEPF	IEC IEPF	IEC IBPF ISPF
4	–	–	–	–	112	56.3	111.9	111.8	111.7
7	3.9	7	6.8	6.7	115	58	115.2	115.1	115
10	5.7	10.2	10.1	10	(10 ft) 118	59.6	118.5	118.4	118.3
(1 ft) 14	7.6	13.5	13.4	13.3	122	61.3	121.8	121.7	121.5
17	9.4	16.8	16.7	16.6	125	62.9	125.1	124.9	124.8
20	11.2	20.1	20	19.8	128	64.6	128.3	128.2	128.1
(2 ft) 23	13.1	23.4	23.2	23.1	(11 ft) 132	66.2	131.6	131.5	131.4
27	14.9	26.6	26.5	26.4	135	67.9	134.9	134.8	134.7
30	16.7	29.9	29.8	29.7	138	69.5	138.2	138.1	137.9
33	18.6	33.2	33.1	33	141	71.2	141.5	141.4	141.2
(3 ft) 36	20.4	36.5	36.4	36.2	(12 ft) 145	72.8	144.8	144.6	144.5
40	22.2	39.8	39.6	39.5	148	74.5	148	147.9	147.8
43	24.1	43	42.9	42.8	151	76.1	151.3	151.2	151.1
46	25.9	46.3	46.2	46.1	(13 ft) 155	77.8	154.6	154.5	154.4
(4 ft) 50	27.7	49.6	49.5	49.4	158	79.4	157.9	157.8	157.6
53	26.6	52.9	52.8	52.7	161	81.1	161.2	161	160.9
56	28.3	56.2	56.1	55.9	164	82.7	164.4	164.3	164.2
(5 ft) 59	29.9	59.5	59.3	59.2	(14 ft) 168	84.4	167.7	167.6	167.5
63	31.6	62.7	62.6	62.5	171	86	171	170.9	170.8
66	33.2	66	65.9	65.8	174	87.7	174.3	174.2	174
69	34.9	69.3	69.2	69.1	178	89.3	177.6	177.4	177.3
(6 ft) 73	36.5	72.6	72.5	72.3	(15 ft) 181	91	180.8	180.7	180.6
76	38.2	75.9	75.7	75.6	184	92.6	184.1	184	183.9
79	39.8	79.1	79	78.9	187	94.3	187.4	187.3	187.2
(7 ft) 82	41.5	82.4	82.3	82.2	(16 ft) 191	95.9	190.7	190.6	190.4
86	43.1	85.7	85.6	85.5					
89	44.8	89	88.9	88.7					
92	46.4	92.3	92.1	92					
(8 ft) 96	48.1	95.5	95.4	95.3					
99	49.7	98.8	98.7	98.6					
102	51.4	102.1	102	101.9					
105	53	105.4	105.3	105.1					
(9 ft) 109	54.7	108.7	108.5	108.4					

Note: all values are rounded to the nearest 0.1 inch

Injection Molded
End Cap (IEC)
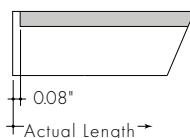
0.08"
Actual Length

Injection Molded
Bottom Power Feed (IBPF)

0.08"
0.55"
Actual Length

Injection Molded
Side Power Feed (ISPF)

0.08"
0.55"
Actual Length

Injection Molded
End Power Feed (IEPF)

0.20"
0.45"
Actual Length
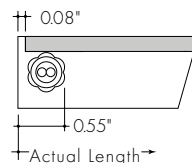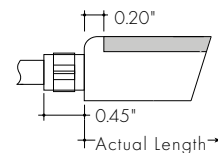
Power Supplies

See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.
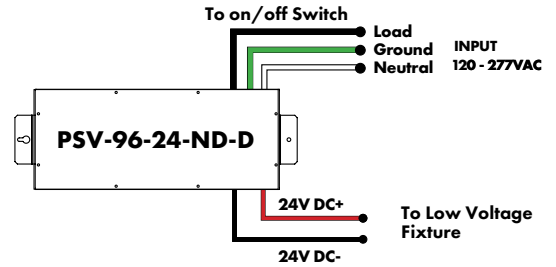
For use with RGB/RGBW/Pixel

Non-Dimming Power Supply 120VAC - 277VAC

MODEL		POWER		OUTPUT		DIMMING		LOCATION
PSV-PSV Series	-	96-96 Watt	-	24-24 VDC	-	ND-Non Dimming	-	D-Dry location

Requires a controller and a decoder to work properly

MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"

To on/off Switch

Load
Ground — INPUT 120 - 277VAC
Neutral

PSV-96-24-ND-D

24V DC+ — To Low Voltage Fixture
24V DC-

DMX-1Z-RGBW, DMX-3Z-RGBW

RGBW LED 1 or 3 Zone Controller

DMX /Wireless RGB-W wall-mount controller controls DMX lighting fixtures, wireless control of RGB-W lighting fixture or use both simultaneously. Fits in any standard US switch box. Includes all the outputs in the back of the controller.

Control brightness levels with a single touch, personalize and memorize 3 different scenes, and even create 3 variations of white.

Features

- 2 in 1 in-Wall Controller: DMX Control or Wireless RGB-W
- 65,000 Color Options, Dimming and Speed Control
- Memory Function
- 50 Foot Wireless Range
- Easily Fits Standard US Switch Boxes
- Touch Sensitive Glass Surface
- Includes 10 Built in Programs, or Create and Play Your Own

Operating Voltage

12 - 24V DC

Color Parameters
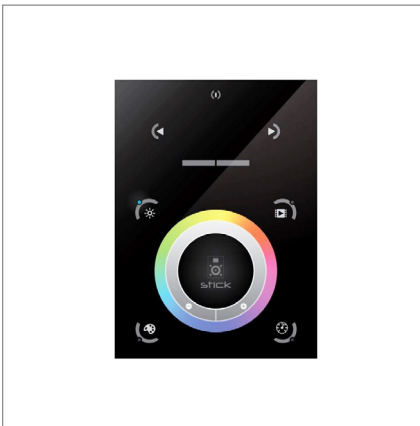
- Brightness
- Saturation
- Primary colors
- Fading
- Color changing speed

ORDERING CODE

MODEL		ZONES		COLOR
DMX - DMX Controller	-	3Z - Three Zone / 1Z - One Zone	-	RGBW - Red, Green, Blue, & White

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 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

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 RGB 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