Kurba Grazer 3D™ Dynamic Color | Field Bendable 24V System

optic arts by luminii

Features

Kurba Grazer 3D™ is a wall grazing, energy efficient and flexible LED strip suitable for wet locations capable of vertical/top bends down to 8″ radius and Horizontal/side bends up down 16″ radius . The silicone material offers excellent heat, weather, UV, and solvent resistance and has a special coating to repel dust and dirt accumulation.

Output Options
- 2-Wire Warm Dim gradually warms the color temperature as you dim down the brightness

- Tunable White allows individual control of CCT and output

- RGB options offer balanced output across the color gamut and a true white with RGBW
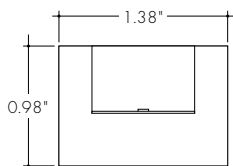
Average Life (L70)
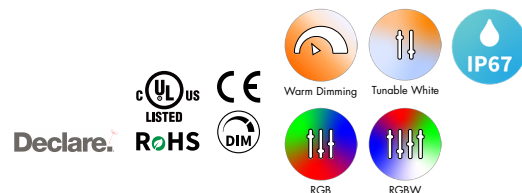50,000 hours

Approvals
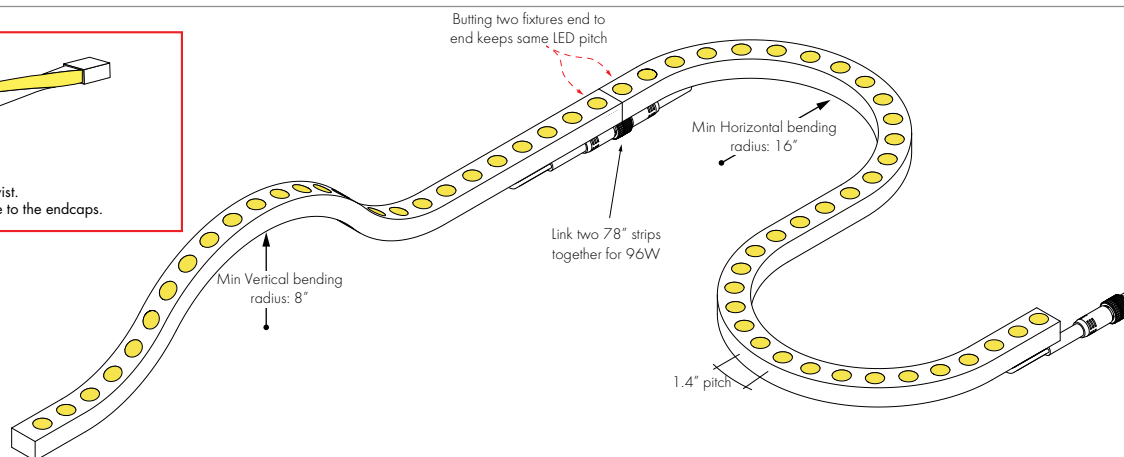24VDC Class 2 wet listed, IP67

Warranty
3 years

1.38"
0.98"

Finish Options
☐ White   ■ Black

c UL us LISTED · CE · Declare. · RoHS · DIM

Warm Dimming · Tunable White · IP67 · RGB · RGBW

Technical Information

Finish Option	White			Black		
Output	TW9SO	RGB9SO	RGBW9SO	TW9SO	RGB9SO	RGBW9SO
Light Output at (All On)	274 lm/ft	237 lm/ft	280 lm/ft	243 lm/ft	201 lm/ft	237 lm/ft
Average Power Consumption at 4'	7.32 W/ft	7.32 W/ft	7.32 W/ft	7.32 W/ft	7.32 W/ft	7.32 W/ft
Efficacy	37 lm/W	32 lm/W	38 lm/W	33 lm/W	27 lm/W	32 lm/W
Ordering Increment	9.84"	9.84"	9.84"	9.84"	9.84"	9.84"
Maximum Run Length (per strip/ In Series)	78″/156″	78″/156″	78″/156″	78″/156″	78″/156″	78″/156″
Operating Temperature Range	-40°F to 131°F	-40°F to 131°F	-40°F to 131°F	-40°F to 131°F	-40°F to 131°F	-40°F to 131°F
Control/Dimming Protocol	0–10V, DMX	DMX	DMX	0–10V, DMX	DMX	DMX

Constraints

NOTE: Do not Twist.
Do not make sharp bends close to the endcaps.

Butting two fixtures end to end keeps same LED pitch

Min Horizontal bending radius: 16″

Link two 78″ strips together for 96W
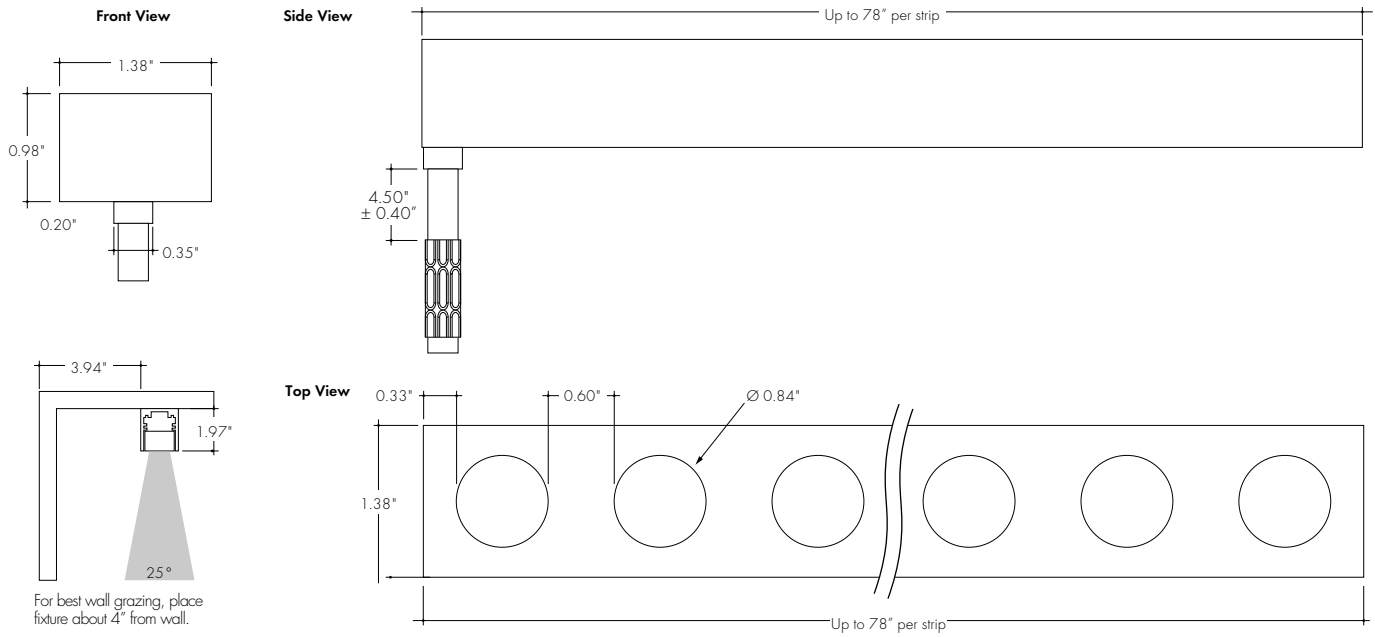
Min Vertical bending radius: 8″

1.4″ pitch
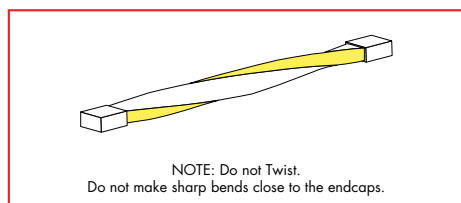
Ordering Code

MODEL	RATING	BEND DIRECTION	LENGTH	OUTPUT	CCT	LENS[1]	MOUNTING	FINISH	FEED POSITION LEFT	FEED POSITION RIGHT
KBG - Kurba Grazer 3D™	W - Wet	3D - 3D Bending	SEE PCC CHART ON PAGE 5	TW9SO - Tunable White, Standard Output	22K57K - 2200K-5700K	20X20 - Grazer (20°)	NA - See Page 3 for orderable mounting accessories	WH - White	INJECTION MOLD	INJECTION MOLD
				RGB9SO - RGB, Standard Output	RGB - Red, Green, Blue	20X30 - Elliptical Beam (20°x30°)		BK - Black	IMB - Back Feed 1	IMB - Back Feed 1
				RGBW9SO - RGBW, Standard Output	RGB27K - RGB 2700K	20X50 - Elliptical Beam (20°x50°)			NPF - No Feed[2]	NPF - No Feed[2]
					RGB30K - RGB 3000K	40X40 - Elliptical Beam (40°x40°)				
					RGB40K - RGB 4000K				Feeds come with 90″ wire leads	

1 - **40X40** lens option only available with **RGB26SO** & **RGBW26SO** outputs. These outputs must only use this lens option   2 - **NPF**-NPF for Feed Position 1&2 is not a valid configuration option

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optic arts
by luminii

Product Dimensions

Front View

1.38"

0.98"

0.20"

0.35"

Side View

Up to 78" per strip

4.50"
± 0.40"

3.94"

1.97"

25°

For best wall grazing, place
fixture about 4" from wall.

Top View

0.33"
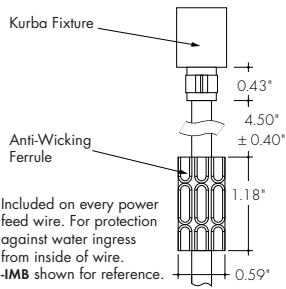
0.60"

Ø 0.84"

1.38"

Up to 78" per strip

Note: Two 78" Kurba Grazer 3D™ strips may be joined together in series up to 156" for a continuous run

Linking and Extension Cable Options

ANTI-WICKING FERRULE
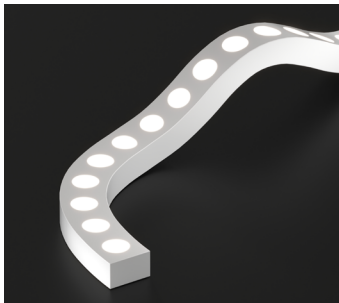Included on every power feed wire

Kurba Fixture

0.43"

4.50"
± 0.40"

Anti-Wicking
Ferrule

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

1.18"

0.59"

Finish Options

• A wide variety of finish options allowing complete customization of style and aesthetic.
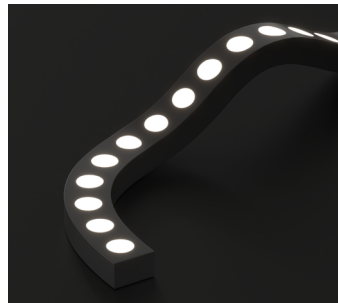
Basic Option

White

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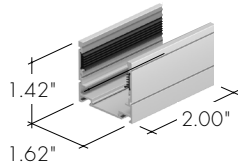enhances any space

Premium Option

Black

Black is a dark, pitch-black with a soft flat finish.
This finish brings a bold, modern look, adding a
touch of cosmic elegance to any space.

## Mounting Accessories and Optional Connectors

MC-KBG-SAP-SM-2-SA
KBG Mounting Channel, Serrated Aluminum Profile, Surface Mount, 2in x 1.4in tall. Silver Anodized

1.42"
2.00"
1.62"

Aluminum mounting channel providing grip. For use with light strip mounted to the ceiling.
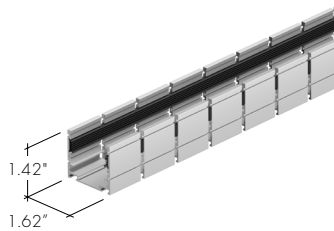
MC-KBG-SAP-SM-78-SA
KBG Mounting Channel, Serrated Aluminum Profile, Surface Mount, 78in x 1.4in tall, Silver Anodized
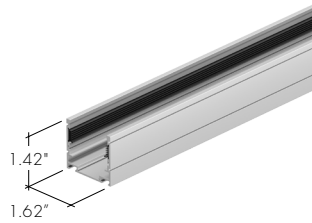
1.42"
1.62"

Aluminum mounting channel providing grip. For use with light strip mounted to the ceiling.

MC-KBG-BSAP-HB-SM-38-SA
KBG Mounting Channel, Bendable Serrated Aluminum Profile, Horizontal Bending, Surface Mount, 38in, Silver Anodized

1.42"
1.62"

1.20"
0.16"
0.19" x 0.39"
0.60"
5.33"

Aluminum mounting channel providing grip. For use with light strip mounted to the ceiling.
NOTE: HB - Horizontal Bending Only

MC-KBG-BSAP-VB-SM-38-SA
KBG Mounting Channel, Bendable Serrated Aluminum Profile, Vertical Bending, Surface Mount, 38in, Silver Anodized

1.42"
1.62"
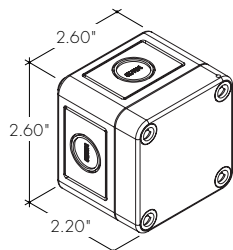
1.20"
0.16"
5.33"
0.60"
0.19" x 0.39"
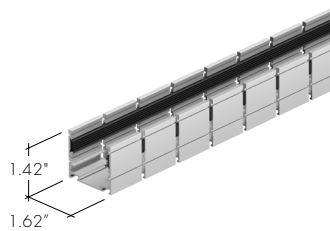
Aluminum mounting bracket providing grip. For use with light strip mounted to the ceiling.
NOTE: VB - Vertical Bending Only
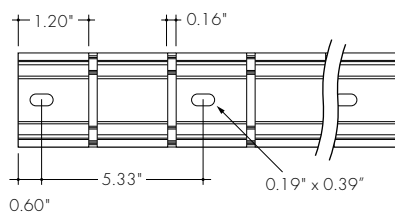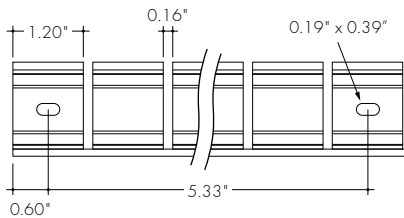
LVSP-WET
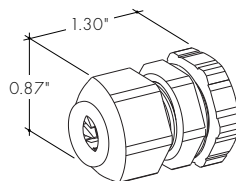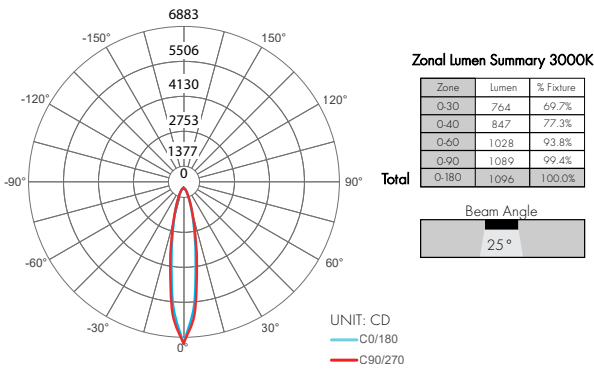Splice box: wet rated, low voltage, gray

2.60"
2.60"
2.20"

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

1.30"
0.87"

Photometry

KBG-W-3D-48-TW9SO-27K65K-20X20-NA-WH
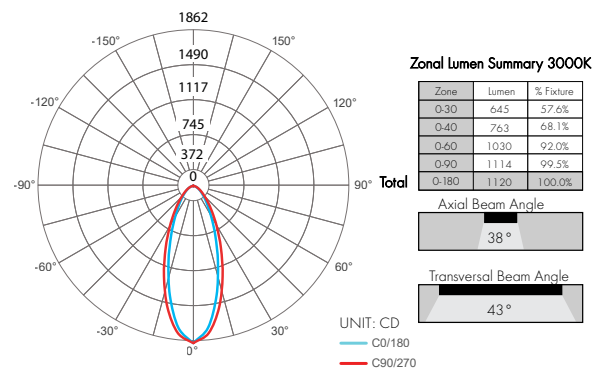Kurba Grazer 3D, 4ft, 2700K - 6500K, 20° Grazer Lens

Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0-30	764	69.7%
0-40	847	77.3%
0-60	1028	93.8%
0-90	1089	99.4%
0-180	1096	100.0%

Total

Beam Angle

25°

UNIT: CD
— C0/180
— C90/270

KBG-W-3D-48-TW9SO-27K65K-20X30-NA-WH
Kurba Grazer 3D, 4ft, 2700K - 6500K, 20°X30° Elliptical Lens

Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0-30	792	72.3%
0-40	875	79.8%
0-60	1038	94.7%
0-90	1089	99.4%
0-180	1096	100.0%

Total

Axial Beam Angle

21°

Transversal Beam Angle

29°

UNIT: CD
— C0/180
— C90/270
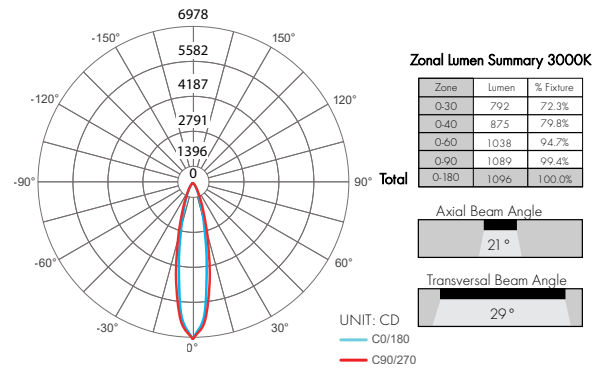
KBG-W-3D-48-TW9SO-27K65K-20X50-NA-WH
Kurba Grazer 3D, 4ft, 32700K - 6500K, 20°X50° Elliptical Lens

Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0-30	646	58.9%
0-40	761	69.4%
0-60	1013	92.4%
0-90	1089	99.4%
0-180	1096	100.0%

Total

Axial Beam Angle

27°

Transversal Beam Angle

52°

UNIT: CD
— C0/180
— C90/270
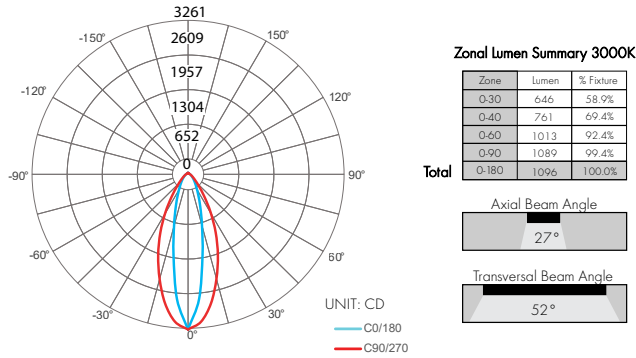
KBG-W-3D-48-RGBWW9SO-RGB30K-40X40-NA-WH
Kurba Grazer 3D, 4ft, RGB-3000K, 40°X40° Elliptical Lens

Zonal Lumen Summary 3000K

Zone	Lumen	% Fixture
0-30	645	57.6%
0-40	763	68.1%
0-60	1030	92.0%
0-90	1114	99.5%
0-180	1120	100.0%

Total

Axial Beam Angle

38°

Transversal Beam Angle

43°

UNIT: CD
— C0/180
— C90/270

TW9SO | 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 (in)	W	Actual Length (in)
10	6.1	**10.0**
20	12.1	**19.8**
30	24.4	**29.7**
39	24.0	**39.4**
49	30.1	**49.4**
59	36.1	**59.2**
69	42.1	**69.1**
78	48.1	**78.9**

RGB9SO | 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 (in)	W	Actual Length (in)
10	6.1	**10.0**
20	12.1	**19.8**
30	24.4	**29.7**
39	24.0	**39.4**
49	30.1	**49.4**
59	36.1	**59.2**
69	42.1	**69.1**
78	48.1	**78.9**

RGBW9SO | 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 (in)	W	Actual Length (in)
10	6.1	**10.0**
20	12.1	**19.8**
30	24.4	**29.7**
39	24.0	**39.4**
49	30.1	**49.4**
59	36.1	**59.2**
69	42.1	**69.1**
78	48.1	**78.9**

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 Warm Dim

Universal Power Supply 1% 120VAC - 277VAC

MODEL		POWER		OUTPUT
	-		-	

PDCU-D - IP20 Dry Series

- 30 - 30 W
- 60 - 60 W
- 96 - 96 W
- 3X96 - 3X96 W

24 - 24 VDC

PDCU-W - IP66 Wet Series

- 96 - 96 W
- 3X96 - 3X96 W
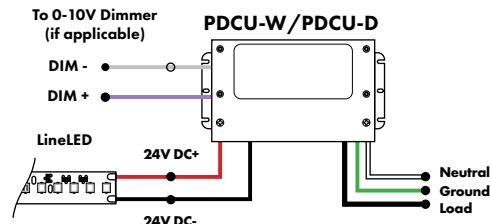
0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.
For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

To 0-10V Dimmer (if applicable)

PDCU-W/PDCU-D

DIM -
DIM +

LineLED

24V DC+
24V DC-

Neutral
Ground
Load

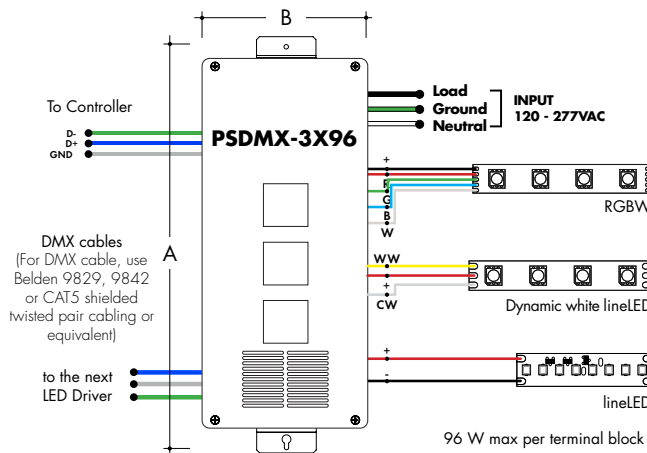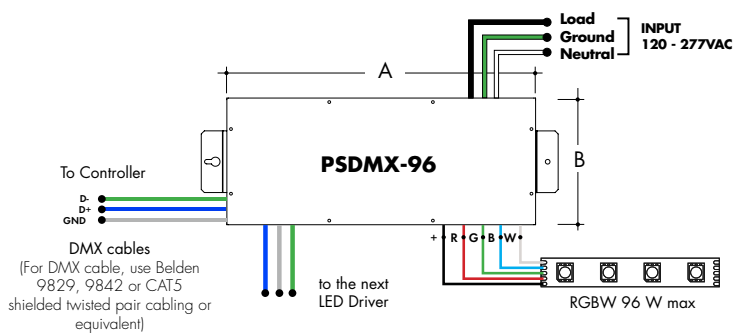| MODELS	PDCU-W 96W	PDCU-W 3X96W	PDCU-D 30W	PDCU-D 60W	PDCU-D 96W	PDCU-D 3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33	1.32"	1.56"	1.13"

For use with RGB/RGBW, RGB42/RGBW36 or with Tunable White

DMX 0% Dimming Power Supplies 120VAC - 277VAC

MODEL		POWER		OUTPUT
	-		-	

PSDMX- DMX Power Supply dims down to 0%

- 96 - 96 Watt
- 3X96 - 3 X 96 Watt

24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers.
DDMX-RGBW DMX Decoder not required when purchasing this power supply.

	MODELS	96W	3X96
A	Length	14.40"	15.75"
B	Width	5.20"	6.62"
	Depth	2.60"	4.95"

Load
Ground
Neutral
INPUT 120 - 277VAC

PSDMX-96

To Controller
D-
D+
GND

DMX cables
(For DMX cable, use Belden 9829, 9842 or CAT5 shielded twisted pair cabling or equivalent)

to the next LED Driver

+ R + G + B + W +

RGBW 96 W max

B

Load
Ground
Neutral
INPUT 120 - 277VAC

To Controller
D-
D+
GND

PSDMX-3X96

DMX cables
(For DMX cable, use Belden 9829, 9842 or CAT5 shielded twisted pair cabling or equivalent)

A

to the next LED Driver

+
R
G
B
W

RGBW

WW
CW

Dynamic white lineLED
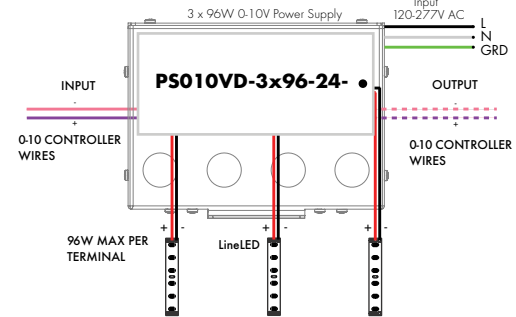
+
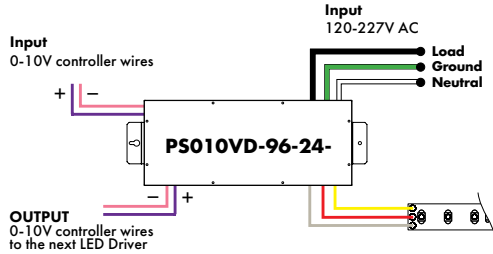
lineLED

96 W max per terminal block

For use with Tunable White

Customizable Dim to Warm or Variable White via 0 - 10V
(for tunable white or warm dimming control of Dynamic option)

MODEL	POWER	OUTPUT	CONTROL
PS010VD-0-10 LED Driver	96-96 Watt	24-24 VDC	WW-Standard One Channel - Dim To Warm Curve W2C-Standard Two Channel - Dim 1: Intensity; Dim 2: CCT W21- Standard Two Channel - Dim 1: Warm Channel Intensity; Dim 2: Cool Channel Intensity W1X-____Custom One Channel - Dim To Warm Curve W2X-____Custom two Channel - Dim 1: Intensity; Dim 2: CCT

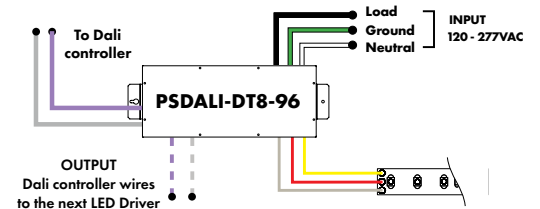| MODELS	96W	3X96
Length	14.40"	15.0"
Width	5.20"	6.61"
Depth	2.60"	4.56"

Requires a 0-10V controller to work properly

Input
0-10V controller wires

+ −

Input
120-227V AC
Load
Ground
Neutral

PS010VD-96-24-

OUTPUT
0-10V controller wires
to the next LED Driver

− +

3 x 96W 0-10V Power Supply

Input
120-277V AC
L
N
GRD

INPUT
-
+
0-10 CONTROLLER
WIRES

PS010VD-3x96-24-

OUTPUT
+
0-10 CONTROLLER
WIRES

96W MAX PER
TERMINAL

LineLED

+   +   +

For use with Tunable White

DALI DT8 LED Driver, 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDALI-DT8-DALI-DT8 LED Driver	96-96 Watt	24-24 VDC

Requires a controller and a decoder to work properly

MODELS		96W
A	Length	14.40"
B	Width	5.20"
	Depth	2.60"

To Dali controller

Load
Ground
Neutral

INPUT
120 - 277VAC

PSDALI-DT8-96

OUTPUT
Dali controller wires
to the next LED Driver

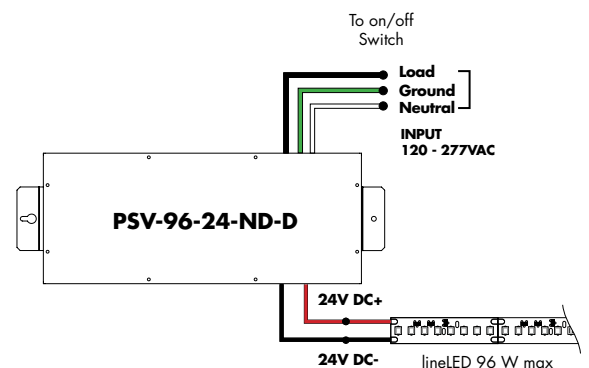## For use with RGB/RGBW/Pixel

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
A	Length	14.40"
B	Width	5.20"
	Depth	2.60"

To on/off
Switch

Load
Ground
Neutral

INPUT
120 - 277VAC

PSV-96-24-ND-D
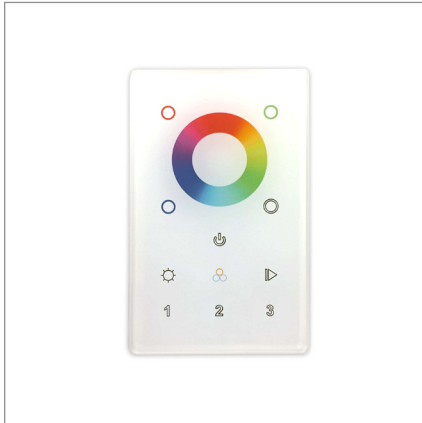
24V DC+

24V DC-

lineLED 96 W max

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.

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
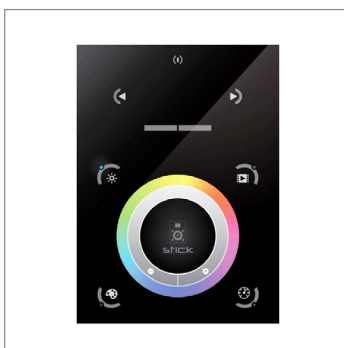- Includes 10 Built in Programs, or Create and Play Your Own

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

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)

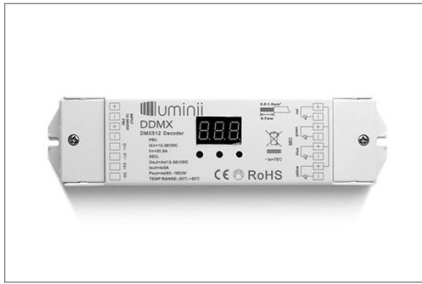#### Programmability

PC, Mac, Tablet, Smartphone

Output Signal

DMX512 (1024 channels)

Color Parameters

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

MODEL

TSDMX-E

TSDMX-E - Touchscreen DMX controller

DMX Decoder

DMX signal to RGBW decoder (required to operate DMX controller)

Translates controller DMX512 programs for RGB and white LED strips.

Unique DMX address for the decoder can be set easily and displayed by the numeric display on the case. Changing and resetting the DMX address requires manual input.

Use power repeater to expand output.

Operating Voltage

12-36 VDC

Power Capacity

up to 96W at 24V

Operating Temperature Range

from -4°F to +122°F in case

ORDERING CODE

MODEL

DDMX-RGBW

DDMX-RGBW - DMX decoder

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 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

Model

SR-DMX-SPI

SR-DMX-SPI - Smart Pixel Decoder