

## FEATURES

Flexible Grazer, slim design with high light transmittance, IP67-rated suitable both indoor and outdoor, equipped with various optical lens ideal for uniform and precise illumination, making it the perfect solution for grazing straight and wave surfaces.

### Optics & Electronics

Beam angle available in 15°, 30°, 45°, 60°, 25\*45°, 25\*45\*10°.  
LED with 3-step MacAdam guaranteeing consistency and high quality of light.

### Customization

Endless fixture length configurations allow for the ultimate freedom of design.

### Life Cycle

Long lifetime of L70B10>54,000 hours with 5-year warranty for indoor, 3-year warranty for outdoor.

# VL-FLWW-W-PU20 (Grazer Max series - top bend)



## SPECIFICATION LOGIC

FAMILY	POWER W/m	NOMINAL LENGTH	Light Color	INPUT VOLTAGE	CABLE ENTRY	IP RATING
VL-FLWW-W-PU20	24W/m	Maximum length - 5m	<b>MONO</b>  <b>TW</b>  <b>RGBW</b>  <b>DMX</b> 	24VDC	<b>FF</b> - Front + Front <b>FX</b> - Front + Closed	<b>IP67</b>

Order example: VL-FLWW-W-PU20-927K-5m-SS

## PRODUCT SPECIFICATIONS

		MONO
Electrical	Power	24W/m
	Input Voltage	24VDC
Physical	Minimum Length	62.5mm
	Width x Height	20mm x 10mm
	Body Finish	Premium TPU / white
	Bend Direction	Vertical (top bending)
	Bend Radius	75mm
	Control protocol	0-10V or PWM or Dali
	Max per run	5m
Optical	Fixture Connections	IP67 injection-moulded input and end cap
	LED Type	3030 LED
	Beam Angle	15°, 30°, 45°, 60°, 25*45°, 25*45*10°
	Lumen Output	2,304Lm/m(3000K) 2,425Lm/m(4000K) 2,579Lm/m(6500K)
	Efficacy	96Lm/W ( CRI90, 3000K )
Temperature Range	Lumen Maintenance	L70B10@54,000 hours
	Storage Temperature	-25°Cmin, 60°Cmax
	Max Ambient Temperature	50°C
	Min Ambient Temperature	-25°C

# VL-FLWW-W-PU20 (Grazer Max series - top bend)



PRODUCT SPECIFICATIONS 		
		Tunable white
Electrical	Power	24W/m
	Input Voltage	24VDC
Physical	Minimum Length	62.5mm
	Width x Height	20mm x 10mm
	Body Finish	Premium TPU / white
	Bend Direction	Vertical (top bending)
	Bend Radius	75mm
	Control protocol	0-10V or PWM or Dali
	Max per run	5m
	Fixture Connections	IP67 injection-moulded input and end cap
Optical	LED Type	3030 LED
	Beam Angle	35°, 20*55°, 25*40°, 10*65°
	Lumen Output	1,080Lm/m(2700K) 2,304Lm/m(3000K) 1,152Lm/m(6500K)
	Efficacy	96Lm/W ( CRI90, 3000K )
	Lumen Maintenance	L70B10@54,000 hours
Temperature Range	Storage Temperature	-25°Cmin, 60°Cmax
	Max Ambient Temperature	50°C
	Min Ambient Temperature	-25°C

PRODUCT SPECIFICATIONS 		
		RGBW
Electrical	Power	24W/m
	Input Voltage	24VDC
Physical	Minimum Length	250mm
	Width x Height	20mm x 10mm
	Body Finish	Premium TPU / white
	Bend Direction	Vertical (top bending)
	Bend Radius	75mm
	Control protocol	PWM or Dali
	Max per run	5m
	Fixture Connections	IP67 injection-moulded input and end cap
Optical	LED Type	3030 LED
	Beam Angle	30°, 60°, 25*45°
	Lumen Output	RGBW: 780Lm/m
	Efficacy	32.5Lm/W ( RGBW )
Temperature Range	Lumen Maintenance	L70B10@54,000 hours
	Storage Temperature	-25°Cmin, 60°Cmax
	Max Ambient Temperature	50°C
	Min Ambient Temperature	-25°C

# VL-FLWW-W-PU20 (Grazer Max series - top bend)



PRODUCT SPECIFICATIONS 		
		RGBW-DMX
Electrical	Power	24W/m
	Input Voltage	24VDC
Physical	Minimum Length	250mm
	Width x Height	20mm x 10mm
	Body Finish	Premium TPU / white
	Bend Direction	Vertical (top bending)
	Bend Radius	75mm
	Control protocol	DMX512
	No. of Pixels	4pixels/m, IC code UCS512H4
	Fixture Connections	IP67 injection-moulded input and end cap
Optical	LED Type	3030 LED
	Beam Angle	30°, 60°, 25x45°
	Lumen Output	RGBW: 780Lm/m
	Efficacy	32.5Lm/W ( RGBW )
	Lumen Maintenance	L70B10@54,000 hours
Temperature Range	Storage Temperature	-25°Cmin, 60°Cmax
	Max Ambient Temperature	50°C
	Min Ambient Temperature	-25°C

# VL-FLWW-W-PU20 (Grazer Max series - top bend)



## Light Distribution

### Light distribution example

Narrow



Beam Angle 30°



D=50mm



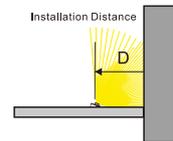
D=100mm



D=200mm



D=300mm



Medium



Beam Angle 45°



D=50mm



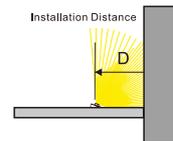
D=100mm



D=200mm



D=300mm



Wide



Beam Angle 60°



D=50mm



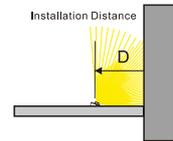
D=100mm



D=200mm



D=300mm



## CABLE ENTRY OPTION EXAMPLES

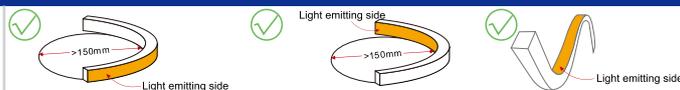
FF - front + front

FX - front + closed



## BENDING INSTRUCTION

Bending in wave form - vertical



DO NOT bend in curve form - horizontal



DO NOT TWIST

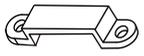
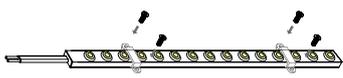


# VL-FLWW-W-PU20 (Grazer Max series - top bend)

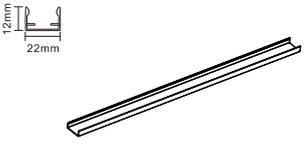
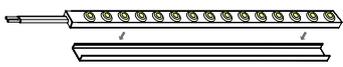


## PROFILES AND MOUNTING OPTIONS

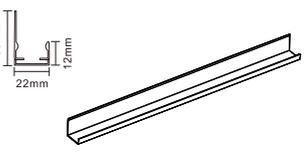
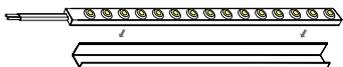
### SILICONE STRAP

	EXAMPLES OF INSTALLATION	PART NUMBER	DETAILS
		2010-SST	SST-Silicone strap

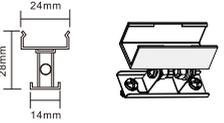
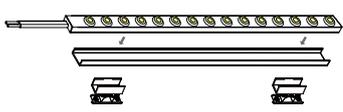
### FIXED ALUMINUM PROFILE

	EXAMPLES OF INSTALLATION	PART NUMBER	DETAILS
		2010-FAP- ____*MM	FAP- Fixed aluminum profile

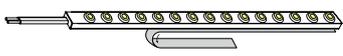
### FIXED ALUMINUM PROFILE with visor

	EXAMPLES OF INSTALLATION	PART NUMBER	DETAILS
		2010-FAP-V- ____*MM	FAP-V-Fixed aluminum profile with visor

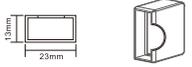
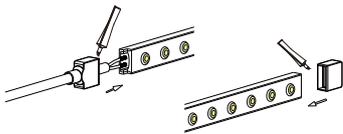
### ADJUSTABLE BRACKET

	EXAMPLES OF INSTALLATION	PART NUMBER	DETAILS
		2010 - BRK	BRK- Bracket

### DOUBLE SIDED TAPE

	EXAMPLES OF INSTALLATION	PART NUMBER	DETAILS
		2010 - 3M	3M-Adhesive double sided tape

### END CAP

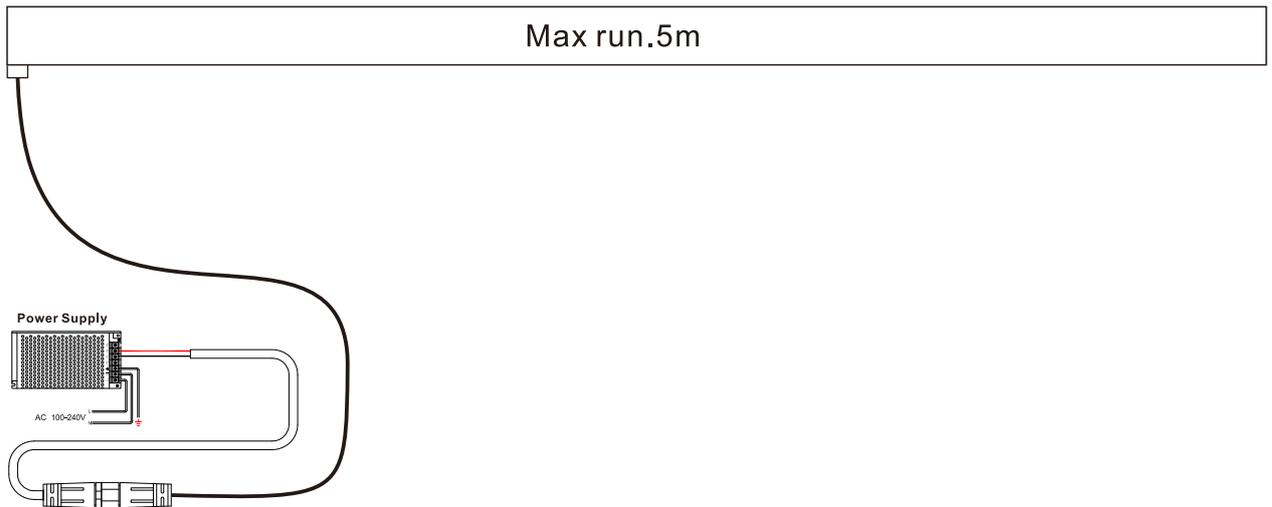
	EXAMPLES OF INSTALLATION	PART NUMBER	DETAILS
		2010 - FC 2010 - EC	FC- Feed cap EC- End cap

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## WIRING ELECTRICAL DIAGRAM

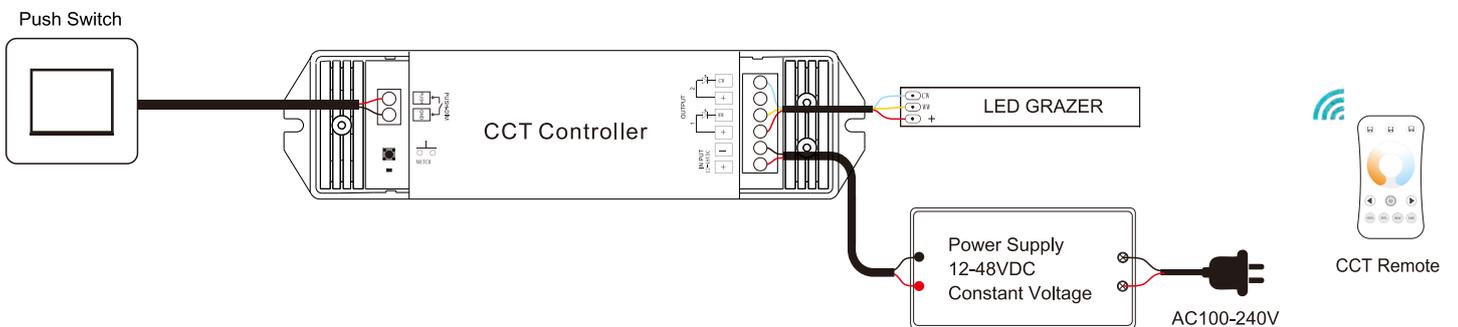
MONO

Input by one end



## WIRING ELECTRICAL DIAGRAM

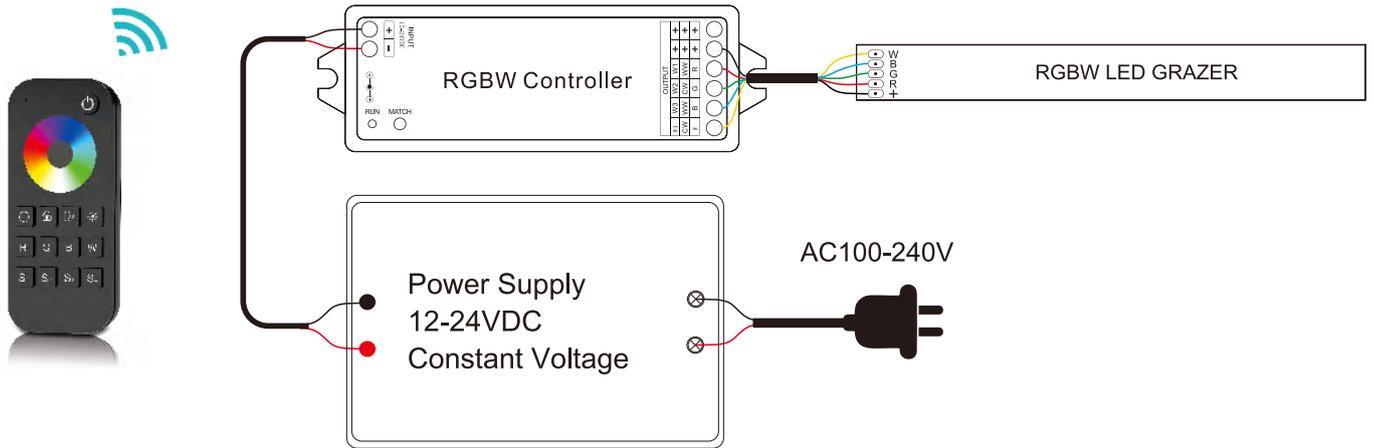
Tunable white



# VL-FLWW-W-PU20 (Grazer Max series - top bend)

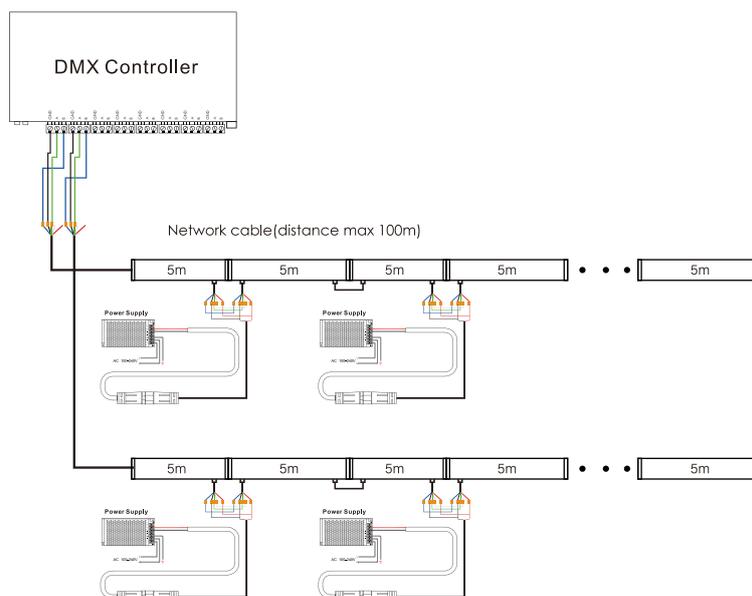
## WIRING ELECTRICAL DIAGRAM

### RGBW



## WIRING ELECTRICAL DIAGRAM

### RGBW-DMX-Offline



# VL-FLWW-W-PU20 (Grazer Max series - top bend)

## WIRING ELECTRICAL DIAGRAM

### RGBW-DMX-Online

