INSTALLATION & USER'S MANUAL

Showline

SL BAR 510/510N
RGBW LED Luminaire

www.vari-lite.com

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Document Number: **SL BAR 510/510N RGBW User's Manual**

Version as of: 17th June, 2014 Rev1.0

SL BAR 510/510N RGBW LED Luminaire installation & User's Manual

IMPORTANT INFORMATION

Warnings and Notices

When using electrical equipment, basic safety precautions should always be followed including the following:

a. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**

b. Do not use outdoors.

c. Do not mount near gas or electric heaters.

d. Equipment should be mounted in locations and at heights where it will not readily be subject to tampering by unauthorized personnel.

e. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.

f. Do not use this equipment for other than intended use.

g. Refer service to qualified personnel.

SAVE THESE INSTRUCTIONS.

WARNING: You must have access to a mains circuit breaker or other power disconnect device before installing any wiring. BE sure that power is disconnected by removing fuses or turning the mains circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.

WARNING: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

WARNING: This equipment is intended for installation in accordance with the Nation Electric Code® and local regulations. It is also intended for installation in indoor applications only. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

Additional Resources for DMX512

For more information on installing DMX512 control systems, the following publication is available for purchase from the United States Institute for Theatre Technology (USITT), "Recommended Practice for DMX512: A Guide for Users and Installers, 2nd edition" (ISBN: 9780955703522). USITT Contact Information:

USITT
315 South Crouse Avenue, Suite 200
Syracuse, NY 13210-1844
Phone: 1.800.938.7488 or 1.315.463.6463
www.usitt.org

Showline Limited Two-Year Warranty

Showline offers a two-year limited warranty of its luminaires against defects in materials or workmanship from the date of delivery. A copy of Showline two-year limited warranty containing specific terms and conditions can be obtained by contacting your local Showline office.

TABLE OF CONTENTS

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PREFACE

1. About this Manual

The document provides installation and operation instructions for the following products:

- SL BAR 510/510N RGBW LED Luminaire

Please read all instructions before installing or using this product. *Retain this manual for future reference*. Additional product information and descriptions may be found on the product specification sheet.

Note: The SL BAR 510/510N RGBW LED Luminaire is universal voltage 100 to 240 VAC (auto-ranging).

2. Included Items

Each SL BAR 510/510N RGBW LED Luminaire includes the following items:

- SL BAR 510/510N RGBW LED Luminaires
- PC1BE - AC Power Input Cable (39 inches / 1 meter), Powercon with Bare End* (**Note, user supplies and installs own AC input connector*)
- Quick Start Guide

  Accessory Yoke Plate

SL BAR 510/510N RGBW LED Luminaire

SL BAR 510/510N RGBW LED LUMINAIRE OVERVIEW

1. SL BAR 510/510N RGBW LED Luminaire Components

Common Luminaire Components

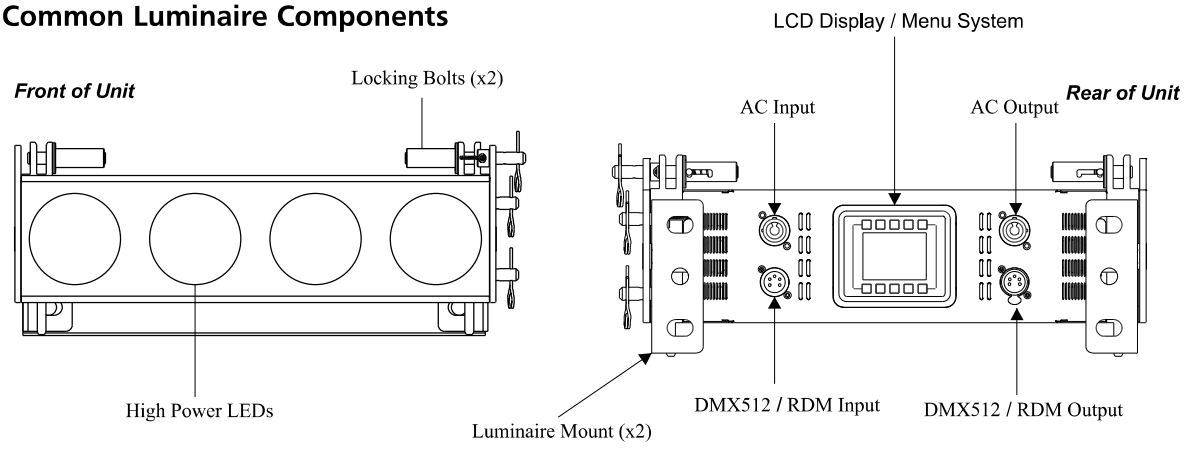


Figure 1: SL BAR 510/510N RGBW LED Luminaire Common Components

LCD Display / Menu System

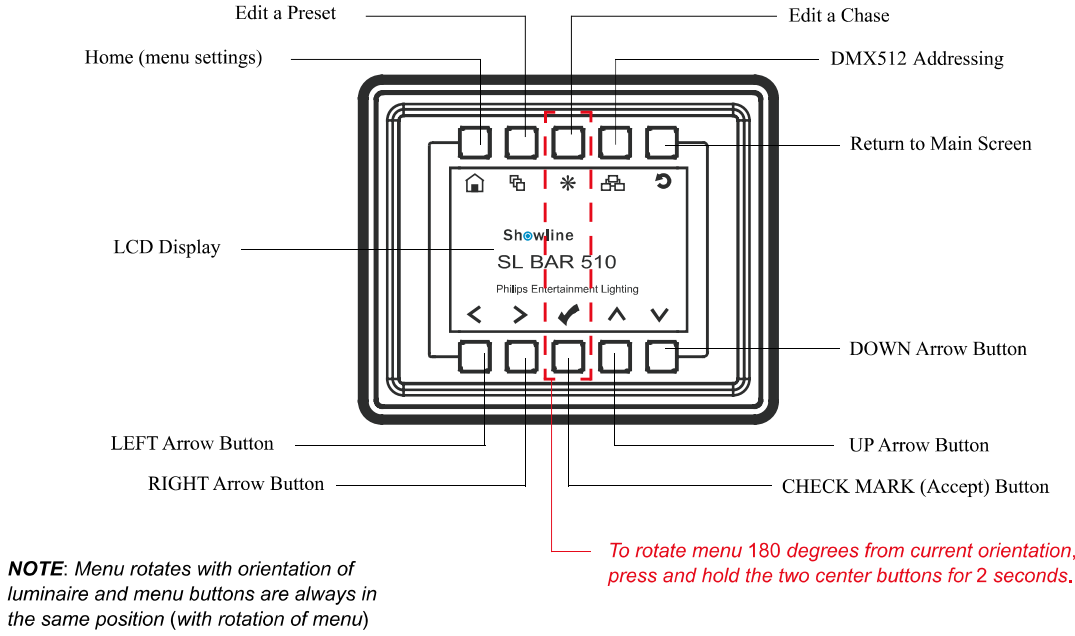


Figure 2: LCD Display & Menu System

Note: For Menu operation and programming details, refer to "LCD Display and Menu System" on page 9.

INSTALLATION AND SET UP

1. Power Requirements

The SL BAR 510/510N RGBW LED Luminaires operate on AC input voltages from 100 to 240 VAC.

WARNING! SL BAR 510/510N RGBW LED Luminaires do not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from the luminaire when not in use.

AC Power Operation

When connected to an AC source, the unit operates on 100 to 240 volts AC (+/- 10%, auto-ranging). The luminaire contains an auto-ranging power supply. Each luminaire can draw up to 110 Watts.

WARNING! Maximum amount of fixtures that may be daisy-chained is (A) 13 units 100 ~ 120VAC or (B) 32 units 230 ~ 240VAC (15 Amps).

Table 1: SL BAR 510/510N RGBW LED Luminaire Voltage (VAC) vs. Current*

Voltage (AC)	Total Current (A)
100	1.10
110	1.00
120	0.92
130	0.84
140	0.78
150	0.73
160	0.68
170	0.64

Voltage (AC)	Total Current (A)
180	0.61
190	0.57
200	0.55
210	0.52
220	0.50
230	0.47
240	0.45

Note: For wiring of AC input connector, refer to "Connecting SL BAR 510/510N RGBW LED Luminaires to AC Power" on page 6.

2. Connecting Power

Units can be powered in one of two ways:

- Direct connection to a AC power source using an AC input cable. For wiring of AC input connector, refer to "Connecting SL BAR 510/510N RGBW LED Luminaires to AC Power" on page 6.
- Connection from the AC output of another SL BAR 510/510N RGBW LED Luminaire. When using this method, it is very important not to connect any other type of equipment device.

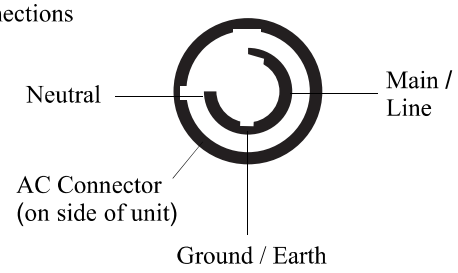
WARNING! Only connect other SL BAR 510/510N RGBW LED Luminaires to the AC Output (Thru) connector of a SL BAR 510/510N RGBW LED Luminaire.

Connecting SL BAR 510/510N RGBW LED Luminaires to AC Power

If the unit is supplied with an AC input cable but you did not order an AC input connector, Table 2describes how to connect power to your SL BAR 510/510N RGBW LED Luminaire. Field wiring of the SL BAR 510/510N RGBW LED Luminaire is straight forward. A total of 3 wires/conductors need to be brought to the unit. The following wiring scheme is required:

Table 2: SL BAR 510/510N RGBW LED Luminaire AC Input Connections

Wire Color	Purpose
Brown	Main/Line(100 to 240VAC)
Blue	Neutral
Green/Yellow	Ground (Earth)



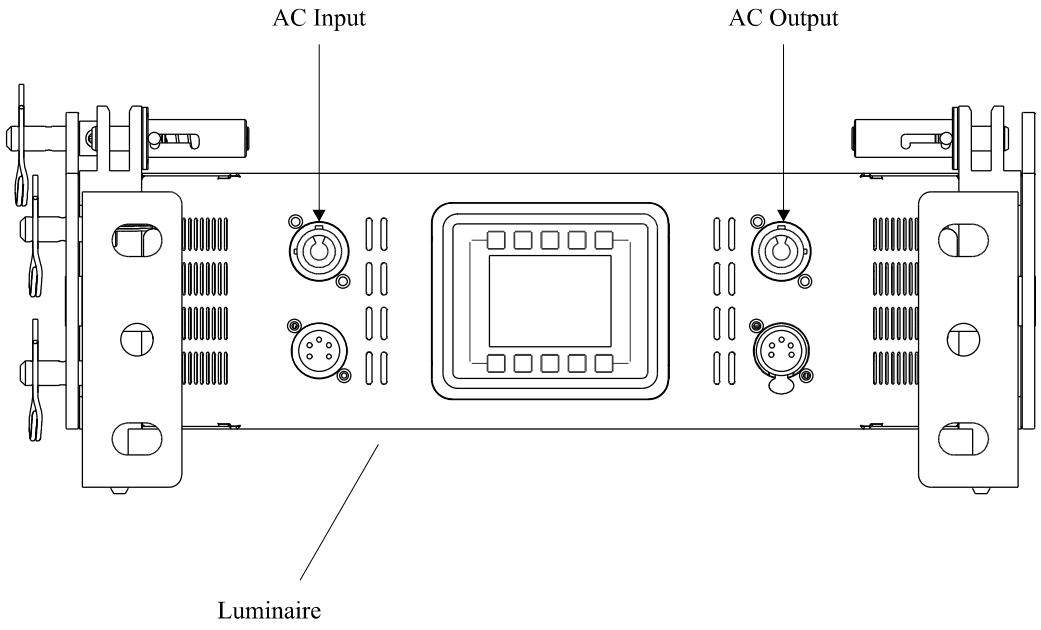


Figure 3: SL BAR 510/510N RGBW LED Luminaire AC Input & Output Connections

CAUTION: In the event the AC input cable of this luminaire is damaged, it must be replaced, by the user, with an approved cable through an Authorized Showline Dealer or Service Center.

3. Connecting to the DMX512 Network

Basic DMX512 installation consists of connecting multiple SL BAR 510/510N RGBW LED Luminaires together (up to 32 luminaires) in "daisy-chain" fashion. A cable runs from the control console (or DMX512 control source) to the DMX connector on the first SL BAR 510/510N RGBW LED Luminaire. Another cable runs from the other DMX connector on the first unit to a DMX connector on the next SL BAR 510/510N RGBW LED Luminaire (or DMX512 device to be controlled).

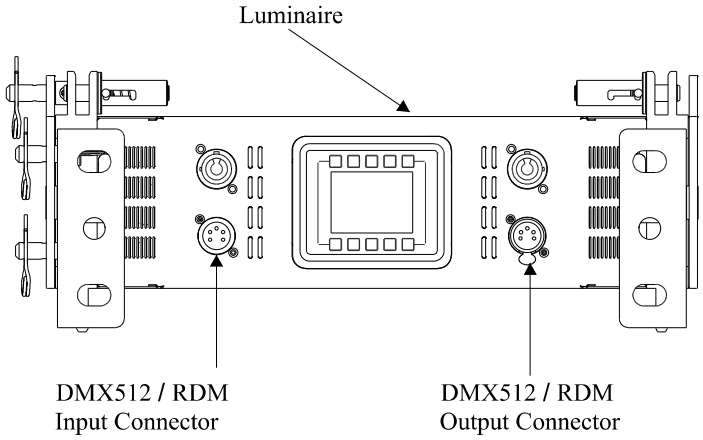
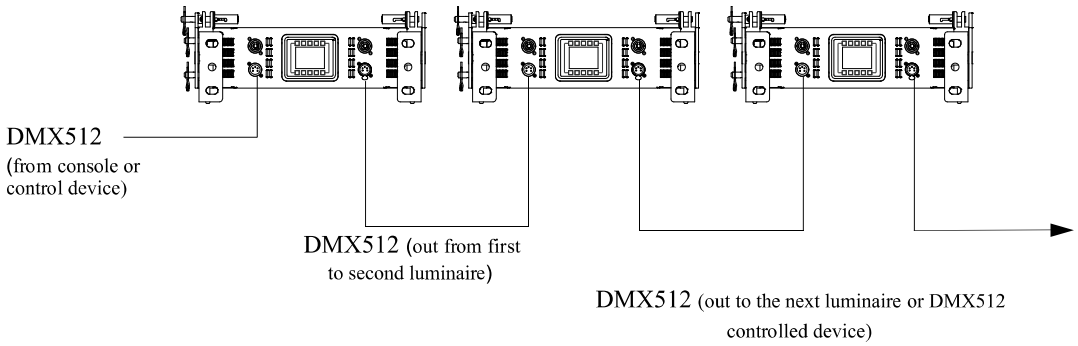


Figure 4: SL BAR 510/510N RGBW LED Luminaire DMX512 Input / Output Connections

Note: For more information on DMX512 networking and systems, refer to "Additional Resources for DMX512" on page 1. For SL BAR 510/510N RGBW LED Luminaire DMX Mapping, refer to "DMX CONTROL" on page 16.



DMX512 Conections

DMX512 Signal	XLR Pin
Common (Drain)	1
DMX512-	2
DMX512+	3

Note: Remaining pins on each connector are not used.

Figure 5: SL BAR 510/510N RGBW LED Luminaire - DMX512 Connections

4. Mounting Luminaire

Truss / Hanging Applications

The SL BAR 510/510N RGBW LED Luminaire is provided with the ability to hang via truss hooks, clamps, etc. (sold separately). Simply attach hook, clamp, etc. to the SL BAR 510/510N RGBW LED Luminaire enclosure assembly in the provided M10 holes. It is recommended (and may be required by local and national safety codes) to use and install a safety cable (sold separately) as illustrated in Figure 6. When hanging the fixture, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and movement. Refer to "Luminaire Dimensions" on page 36 for spacing (dimensional) requirements.

Note: Mounting hooks, clamps, safety cables, etc. are sold separately or by others. For mounting accessories available for this product, refer to "Accessories" on page 3.

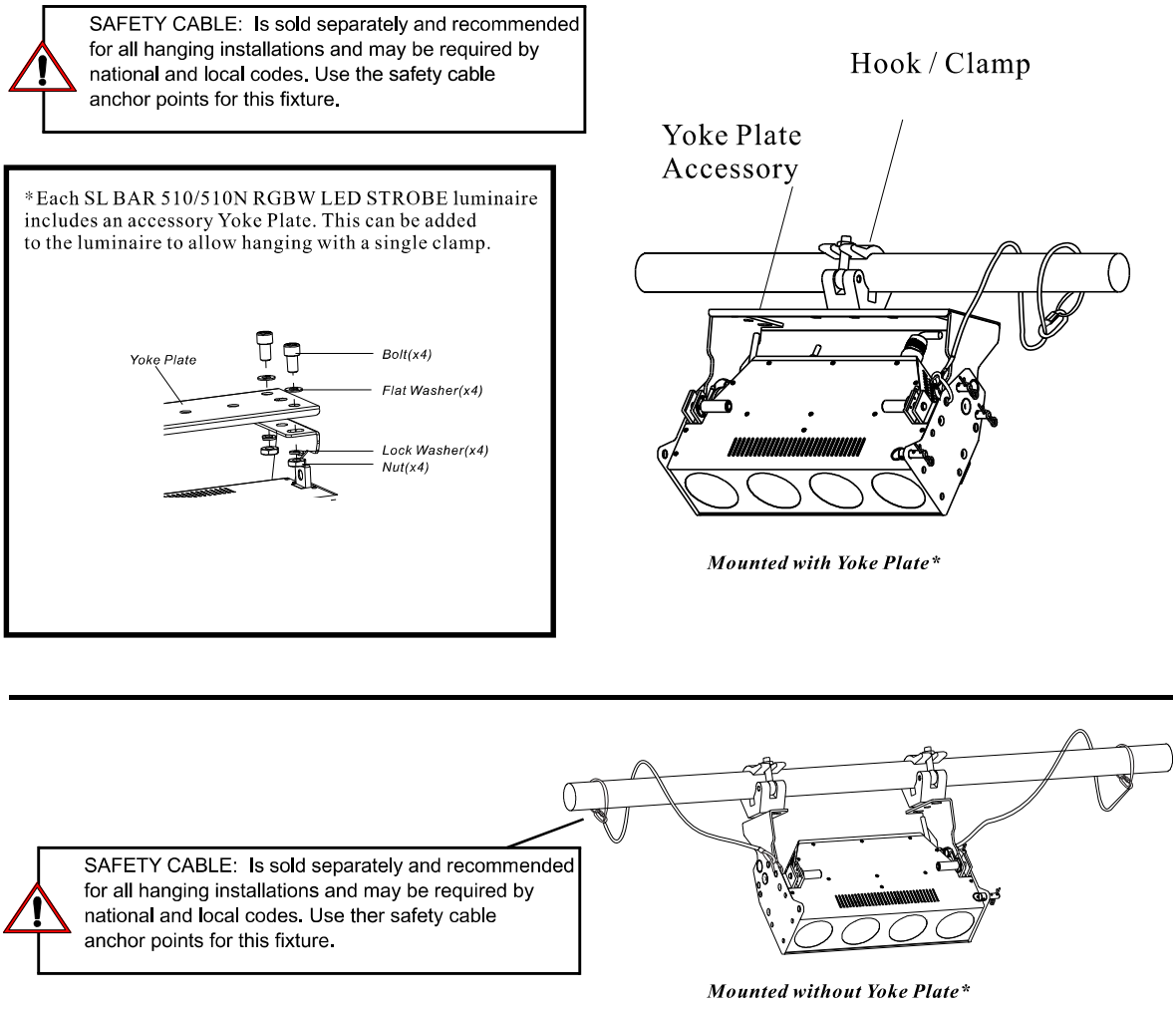


Figure 6: Mounting the Fixture - Hanging Applications

Floor Mounting

The SL BAR 510/510N RGBW LED Luminaires are designed to sit directly on its enclosure assembly (base) in a floor installation application. When used in this type of application, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and movement.

OPERATION AND PROGRAMMING

1. LCD Display and Menu System

SL BAR 510/510N RGBW LED Luminaires

The SL BAR 510/510N RGBW LED Luminaire's LCD Display and Menu System provides local control for accessing the following fixture's settings:

- Presets (Standard and User Defined)
- Color Filter
- Effects (Chases - preloaded and user defined)
- Strobe / Timing
- Settings
- Lock Fixture (to prevent changes)
- Password
- Status

Note: If there are multiple luminaires in a system, changes would need to be made at each LCD Menu as desired. For SL BAR 510/510N RGBW LED Luminaire menu structure, see "SL BAR 510/510N RGBW LED Luminaire Menu Tree" on page 11.

Upon power up, the LCD will display the main screen showing the product type/name. If DMX is enabled, the programmed address will appear after power up.

2. LCD Display and Menu System Operation

The LCD Display Menu system consists of several categories. Use the Menu Buttons to access and make changes to the menu items. When the desired menu item is reached, press the desired Menu Button to display the menu options and to navigate and configure the menu options as required.

To navigate and access menu settings/selections:

Step 1. Make sure unit is powered and turned on.

Step 2. Press the desired button (as shown in **Figure 8**) to access menu categories.

Step 3. Use UP | DOWN | LEFT | RIGHT arrow buttons to navigate through the various options and settings.

Step 4. Make changes as desired.

Press CHECK MARK (OK) button to accept changes.

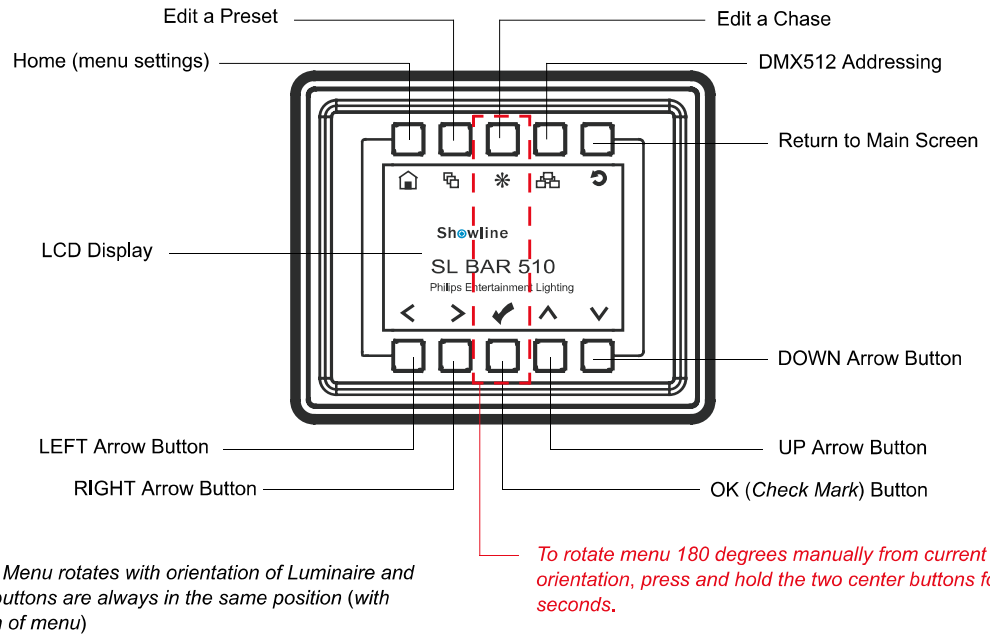


Figure 8: LCD Display and Menu System

3. SL BAR 510/510N RGBW LED Luminaire Menu Tree

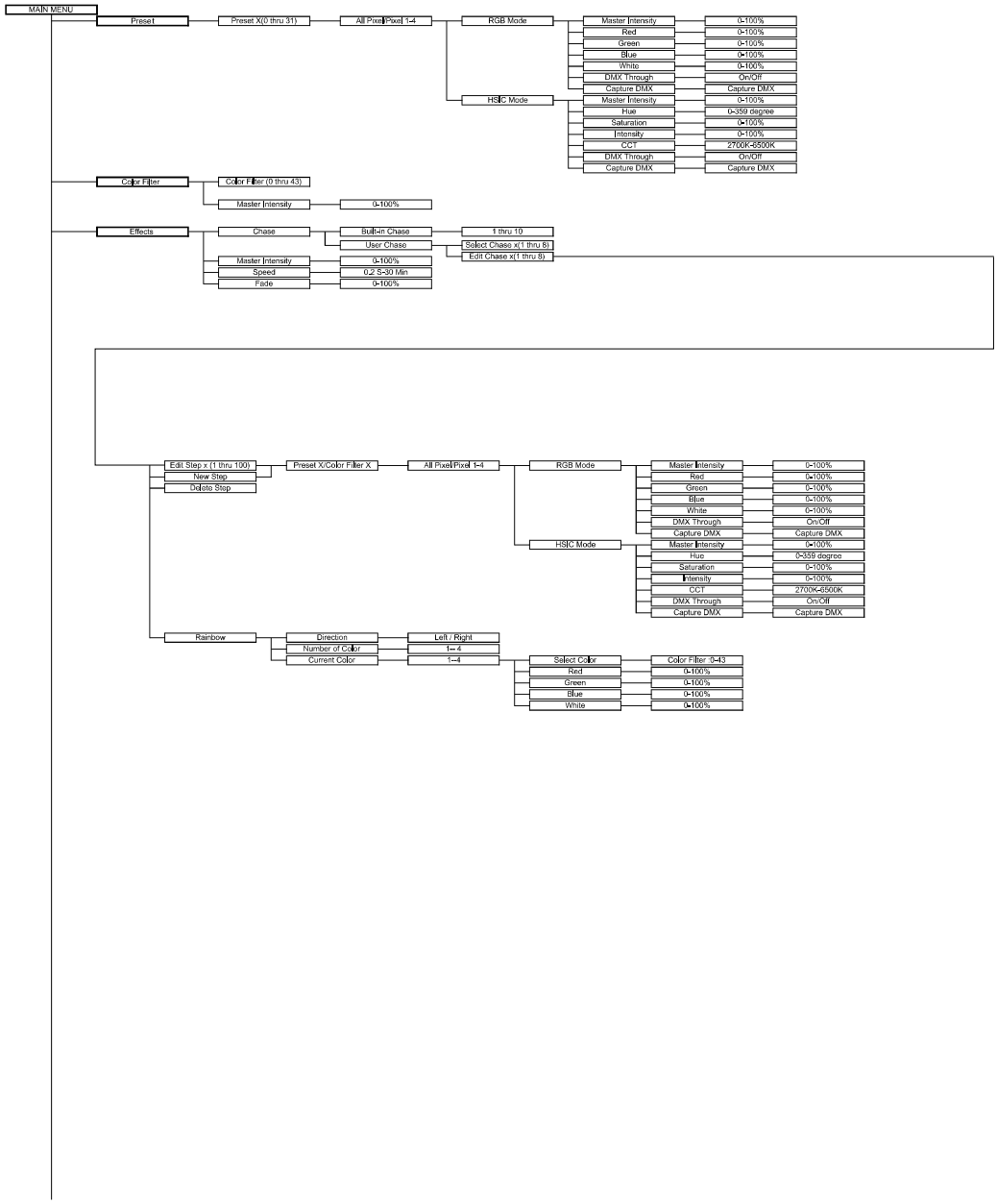


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Figure 9: SL BAR 510/510N RGBW LED LUMINAIRE Menu Tree(Part 1)

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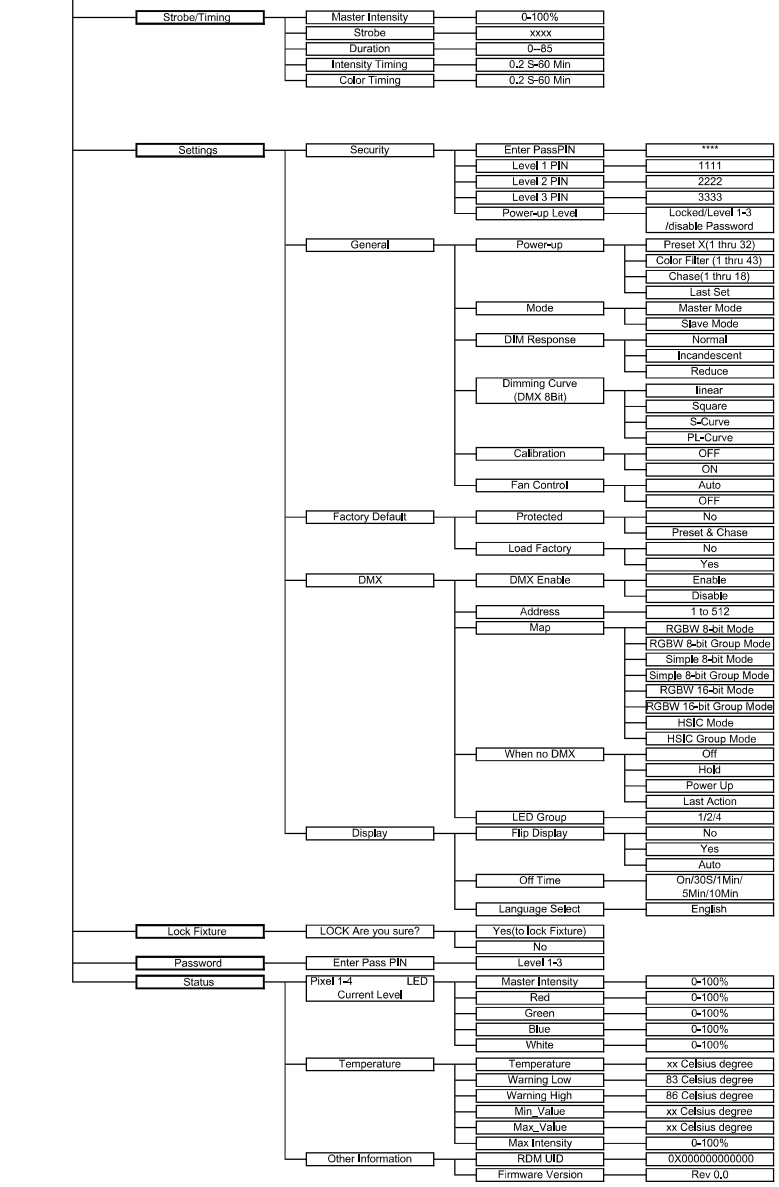


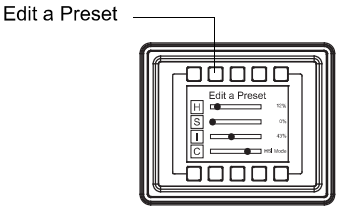
Figure 10: SL BAR 510/510N RGBW LED LUMINAIRE Menu Tree(Part 2)

4. Quick Selection Buttons

When in Manual Mode, the SL BAR 510/510N RGBW's features can be accessed via the on-board LCD menu system or via three quick select buttons:

- Edit a Preset Button
- Edit a Chase Button
- DMX Address Button

Edit a Preset Button



To edit and save a preset:

Step 1. Press Edit a Preset button. Current preset will be shown.

Step 2. Use LEFT and RIGHT arrow buttons to scroll through all presets.

Step 3. Once at desired preset, use UP and DOWN arrows to access (highlight) preset parameters. Once in desired parameter, use LEFT and RIGHT arrow buttons to adjust parameter value as desired.

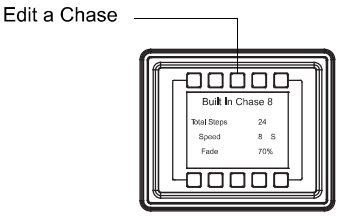
Step 4. Once all values are adjusted as desired, press OK (Check Mark) button.

Step 5. Save preset menu option will appear. Use LEFTand RIGHT arrow buttons to select preset number.

Step 6. If saving preset, press OK (Check Mark) button. Confirm choice.

Step 7. Preset is now saved.

Edit a Chase Button



To edit and save a chase:

Step 1. Press Edit a Chase button. Current chase will be shown.

Step 2. Use LEFT and RIGHT arrow buttons to scroll through all chases (Built In and User Chases).

Note: For Built In Chases, only the Speed and Fade parameters may be changed and saved. For User Chases, Chase Number, Total Steps, Speed, and Fade Parameters may be changed and saved.

Step 3. Once at desired chase, use UP and DOWN arrows to access (highlight) chase parameters. Once in desired parameter, use LEFT and RIGHT arrow buttons to adjust parameter value as desired.

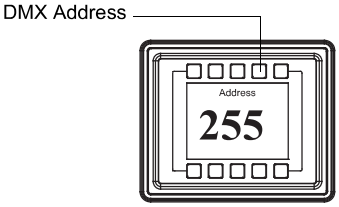
Step 4. Once all values are adjusted as desired, press OK(Check Mark) button.

Step 5. Save chase menu option will appear. Use LEFTand RIGHT arrow buttons to select chase number.

Step 6. If saving chase, press OK (Check Mark) button. Confirm choice.

Step 7. Chase is now saved.

DMX Address Button



To edit and save a DMX address:

Step 1. Press DMX Address button. Current DMX Address will be shown.

Step 2. Press OK (Check Mark) button to highlight a digit in the DMX address.

Step 3. Use LEFT and RIGHT arrow buttons to scroll through all digits.

Step 4. Once at desired digit, use UP and DOWN arrows to change highlighted digit. Once digit is set, use LEFT and RIGHT arrow buttons to set other digits in DMX address.

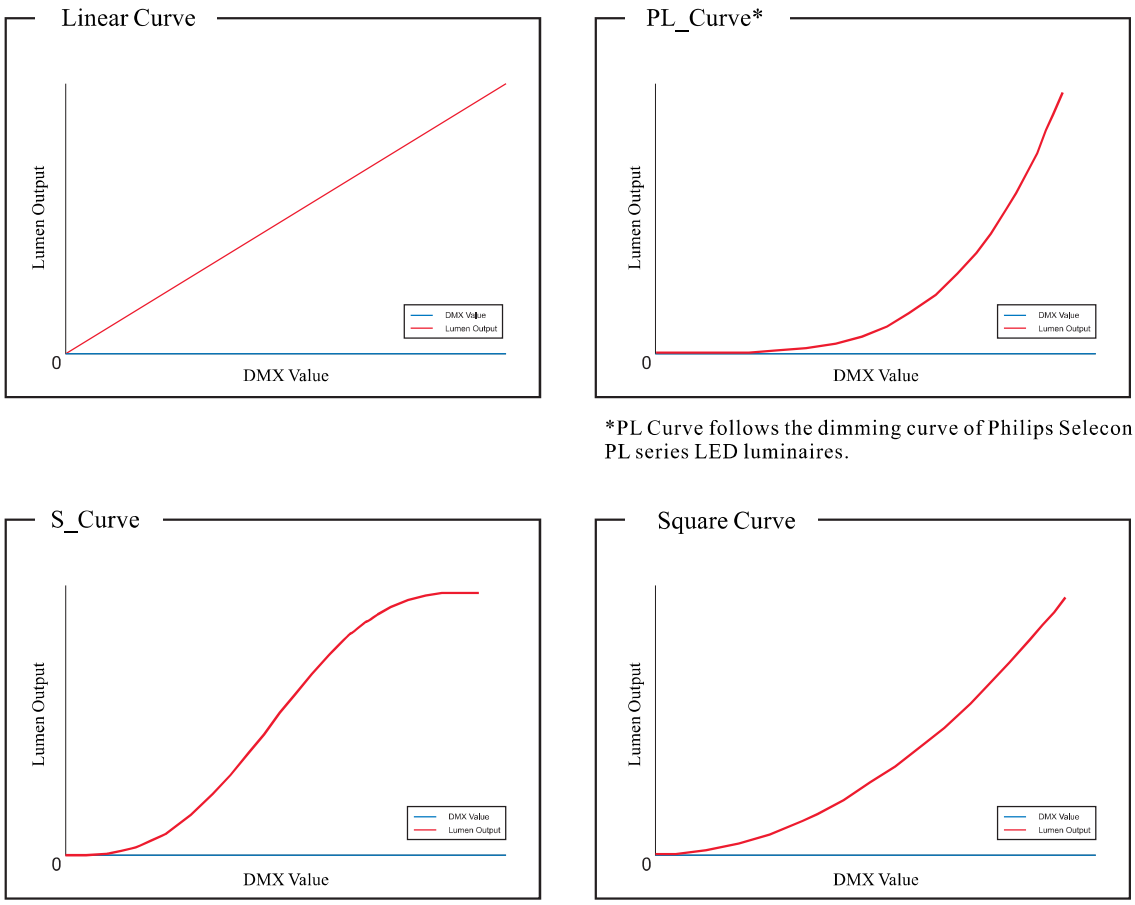
Step 5. Once all digits are set in DMX address, press OK(Check Mark) button.

Step 6. DMX will display and is saved.

5. Dimming Curve Selection

Through the menu, you are able to select one of four dimming curves:

- Linear Curve
- PL_Curve
- S_Curve
- Square Curve



*PL Curve follows the dimming curve of Philips Selecon PL series LED luminaires.

Figure 11: SL BAR 510/510N RGBW LED Luminaire Dimmer Curves

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6. Master / Slave Operational Mode

The Master / Slave Operational Mode allows one SL BAR 510/510N RGBW LED Luminaire to act as the "Master" unit and all other connected units are controlled by this unit. When a unit is set to "Slave" mode, it will only listen to and follow any commands sent from a "Master" unit. Only one "Master" unit is allowed in this type of operation.

To Setup a master/slave network:

Step 1. Set the first device in the DMX512 chain to Master Mode through the unit's menu system.

Step 2. Set all other connected units to Slave Mode.

Step 3. The master unit can be controlled via DMX512, RDM or through standalone operation (self-contained network utilizing on-board effects). The salve units will mimic the master unit's operation in all cases.

Note: For more information on DMX512 networking and systems, refer to "Additional Resources for DMX512" on page 1. For SL BAR 510/510N RGBW LED Luminaire DMX Mapping, refer to "DMX CONTROL" on page 16.

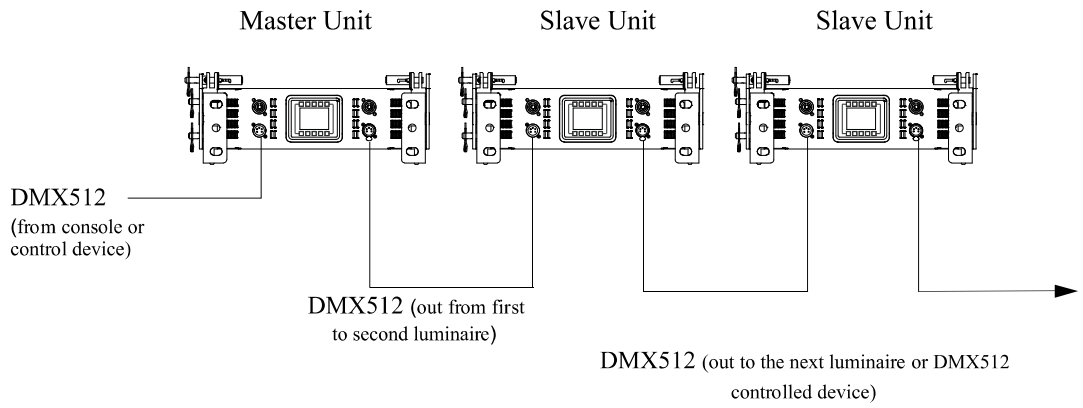


Figure 12: SL BAR 510/510N RGBW LED Luminaire - Master / Slave Configuration

DMX CONTROL

This section contains information for operating the luminaire using DMX control in Simple 8-bit, RGBW 8-bit, RGBW 16-bit or HSIC (Hue, Saturation, Intensity and Color Correction) modes. For Menu options and detailed information, see "LCD Display and Menu System" on page 9.

Note: These tables assume a DMX start address of 1. When a different starting address is used, this address becomes channel 1 function and other functions follow in sequence.

1. SL BAR 510/510N RGBW LED Luminaire DMX Mapping

Simple 8-Bit Mode

Table 3 provides DMX channel mapping of all DMX512 control values when the SL BAR 510/510N RGBW LED Luminaire is in simple 8-bit DMX512 mode (as set by the luminaire's menu system).

Table 3: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (Simple 8 - Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default	Description
1	Master Intensity	0 - 255	0 - 100%	0	8 bit control for Intensity of LED settings.
2	Strobe	0 - 255	0 - 100%	0	Controls strobe operations as follows . . . Open = DMX 0 - 2 Closed = DMX 3 - 5 Slow Rand = DMX 6 - 7 Med Rand = DMX 8 - 10 Fast Rand = DMX 11 - 12 Strobe Range = DMX 13 - 127 (fastest) Pulse + Slow Rand = DMX 128 - 129 Pulse + Med Rand = DMX 130 - 131 Pulse + Fast Rand = DMX 132 - 133 Pulse + Range = DMX 134 - 191 Pulse - Slow Rand = DMX 192 - 193 Pulse - Med Rand = DMX 194 - 195 Pulse - Fast Rand = DMX 196 - 197 Pulse - Range = DMX 198 - 255
3	Red 1-4	0 - 255	0 - 100%	0	8 bit control of Red LEDs from 0 to full.
4	Green 1-4	0 - 255	0 - 100%	0	8 bit control of Green LEDs from 0 to full.
5	Blue 1-4	0 - 255	0 - 100%	0	8 bit control of Blue LEDs from 0 to full.
6	White 1-4	0 - 255	0 - 100%	0	8 bit control of White LEDs from 0 to full.

2. Simple 8Bit Group Mode

Table 4 provides DMX channel mapping of all DMX512 control values when the SL BAR 510/510N RGBW LED Luminiare is operated in various Simple 8-bit DMX512 Group Control Modes.

Table 4: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (Simple 8Bit Group Mode)

RGBW Simple 8 BIT MODE			
DMX CHANNEL	4 Group Mode	2 Group Mode	1 Group Mode
1	Master Intensity	Master Intensity	Master Intensity
2	Strobe	Strobe	Strobe
3	Red_1	Red_1-2	Red_1-4
4	Green_1	Green_1-2	Green_1-4
5	Blue_1	Blue_1-2	Blue_1-4
6	White_1	White_1-2	White_1-4
7	Red_2	Red_3-4	
8	Green_2	Green_3-4	
9	Blue_2	Blue_3-4	
10	White_2	White_3-4	
11	Red_3		
12	Green_3		
13	Blue_3		
14	White_3		
15	Red_4		
16	Green_4		
17	Blue_4		
18	White_4		

3. RGBW 8 - Bit Mode

Table 5 provides DMX channel mapping of all DMX512 control values when the SL BAR 510/510N RGBW LED Luminaire is in RGBW 8-bit DMX512 mode (as set by the luminaire's menu system).

Table 5: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (RGBW 8-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default	Description
1	Master Intensity	0 - 255	0 - 100%	0	8 bit control for Intensity of LED settings.
2	Color Presets	0 - 255	0 - 100%	0	Variable color Presets as follows . . . Channel OFF (disabled) DMX 0 - 4 Preset 0 (OFF) DMX 5 - 6 Preset 1 DMX 7 - 8 Preset 2 DMX 9 - 10 Preset 3 DMX 11 - 12 Preset 4 DMX 13 - 14 Preset 5 DMX 15 - 16 Preset 6 DMX 17 - 18 Preset 7 DMX 19 - 20 Preset 8 DMX 21 - 22 Preset 9 DMX 23 - 24 Preset 10 DMX 25 - 26 Preset 11 DMX 27 - 28 Preset 12 DMX 29 - 30 Preset 13 DMX 31 - 32 Preset 14 DMX 33 - 34 Preset 15 DMX 35 - 36 Preset 16 DMX 37 - 38 Preset 17 DMX 39 - 40 Preset 18 DMX 41 - 42 Preset 19 DMX 43 - 44 Preset 20 DMX 45 - 46 Preset 21 DMX 47 - 48 Preset 22 DMX 49 - 50 Preset 23 DMX 51 - 52 Preset 24 DMX 53 - 54 Preset 25 DMX 55 - 56 Preset 26 DMX 57 - 58 Preset 27 DMX 59 - 60 Preset 28 DMX 61 - 62 Preset 29 DMX 63 - 64 Preset 30 DMX 65 - 66 Preset 31 DMX 67 - 68 CF_0_Color OFF DMX 69 - 70 CF_1_White 10000K DMX 71 - 72 CF_2_White 8000K DMX 73 - 74 CF_3_White 6500K DMX 75 - 76 CF_4_White 5600K DMX 77 - 78 CF_5_White 5000K DMX 79 - 80 CF_6_White 4500K DMX 81 - 82 CF_7_White 4000K DMX 83 - 84 CF_8_White 3200K DMX 85 - 86 CF_9_White 3000K DMX 87 - 88 CF_10_White 2700K DMX 89 - 90

Table 5: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (RGBW 8-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default	Description	
2	Color Presets	0 - 255	0 - 100%	0	CF_11_Moroccan Pink	DMX 91 - 92
					CF_12_Pink	DMX 93 - 94
					CF_13_Flesh Pink	DMX 95 - 96
					CF_14_Bright Rose	DMX 97 - 98
					CF_15_Follies Pink	DMX 99 - 100
					CF_16_Fuchsia Pink	DMX 101 - 102
					CF_17_Surprise Pink	DMX 103 - 104
					CF_18_Congo Blue	DMX 105 - 106
					CF_19_Blue	DMX 107 - 108
					CF_20_Virgin Blue	DMX 109 - 110
					CF_21_Midnight Maya	DMX 111 - 112
					CF_22_Dluble C.T Blue	DMX 113 - 114
					CF_23_Slate Blue	DMX 115 - 116
					CF_24_Regal Blue	DMX 117 - 118
					CF_25_Fullt C.T Blue	DMX 119 - 120
					CF_26_Steel Blue	DMX 121 - 122
					CF_27_Lighter Blue	DMX 123 - 124
					CF_28_Cyan	DMX 125 - 126
					CF_29_Marine Blue	DMX 127 - 128
					CF_30_Soft Green	DMX 129 - 130
					CF_31_Moss Green	DMX 131 - 132
					CF_32_Green	DMX 133 - 134
					CF_33_Fem Green	DMX 135 - 136
					CF_34_JAS Green	DMX 137 - 138
					CF_35_Pale Green	DMX 139 - 140
					CF_36_Spring Yellow	DMX 141 - 142
					CF_37_Yellow	DMX 143 - 144
					CF_38_Deep Amber	DMX 145 - 146
					CF_39_Chrome Orange	DMX 147 - 148
					CF_40_Orange	DMX 149 - 150
					CF_41_Magenta	DMX 151 - 152
					CF_42_Flame Red	DMX 153 - 154
					CF_43_Purple	DMX 155 - 156
					Rotate CW Fast → Slow	DMX 157 - 171
					Rotate ACW Slow → Fast	DMX 172 - 186
					Random Color Fast → Slow	DMX 187 - 201

Table 5: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (RGBW 8-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default - *recommended console default values*	Description
2	Color Presets	0 - 255	0 - 100%	0	Chase1 DMX 202 - 204 Chase2 DMX 205 - 207 Chase3 DMX 208 - 210 Chase4 DMX 211 - 213 Chase5 DMX 214 - 216 Chase6 DMX 217 - 219 Chase7 DMX 220 - 222 Chase8 DMX 223 - 225 Chase9 DMX 226 - 228 Chase10 DMX 229 - 231 User Chase1 DMX 232 - 234 User Chase2 DMX 235 - 237 User Chase3 DMX 238 - 240 User Chase4 DMX 241 - 243 User Chase5 DMX 244 - 246 User Chase6 DMX 247 - 249 User Chase7 DMX 250 - 252 User Chase8 DMX 253 - 255
3	Strobe	0 - 255	0 - 100%	DMX0	Controls strobe operations as follows . . . Open = DMX 0 - 2 Closed = DMX 3 - 5 Slow Rand = DMX 6 - 7 Med Rand = DMX 8 - 10 Fast Rand = DMX 11 - 12 Strobe Range = DMX 13 - 127 (fastest) Pulse + Slow Rand = DMX 128 - 129 Pulse + Med Rand = DMX 130 - 131 Pulse + Fast Rand = DMX 132 - 133 Pulse + Range = DMX 134 - 191 Pulse - Slow Rand = DMX 192 - 193 Pulse - Med Rand = DMX 194 - 195 Pulse - Fast Rand = DMX 196 - 197 Pulse - Range = DMX 198 - 255
4	Duration	0 - 255	0 - 100%	0	Strobe's duration,Range is 0-85 0 = DMX 0 1 = DMX 1 - 3 x = (DMX Value-1)/3+1 85 = DMX 253-255

Table 5: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (RGBW 8-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	**Default** - *recommended console default values*	Description
5	Timing	0 - 255	0 - 100%	255	Allows for timing control of intensity, color, and zoom parameters. Channel should default to 255 for smoothest actions using console and/or manual fades. - See Timing Chart for more details.
6	Control	0 - 255	0 - 100%	0	functions of the SL Series products. Set control channel value to desired action,Hold value for at least 5 seconds ,then turn to 0. Set control channel value to 0 without any scaling. Default Setting on Console = DMX 0-4 DIM Response _Normal = DMX 5 - 9 DIM Response_Incandescent = DMX 10 - 14 Dimming Curve_linear = DMX 30 - 34 Dimming Curve_Square = DMX 35- 39 Dimming Curve_S-Curve = DMX 40 - 44 Dimming Curve_PL-Curve = DMX 45 - 49 Calibration_OFF = DMX 70 - 74 Calibration_ON = DMX 75 - 79 Fan_Auto = DMX 80 - 84 Fan_Off = DMX 85 - 89 Reserves(Future use) = DMX 90 - 250
7	Red 1-4	0 - 255	0 - 100%	0	8 bit control of Red LEDs from 0 to full.
8	Green 1-4	0 - 255	0 - 100%	0	8 bit control of Green LEDs from 0 to full.
9	Blue 1-4	0 - 255	0 - 100%	0	8 bit control of Blue LEDs from 0 to full.
10	White 1-4	0 - 255	0 - 100%	0	8 bit control of White LEDs from 0 to full.

4. RGBW 8Bit Group Mode

Table 6 provides DMX channel mapping of all DMX512 control values when the SL BAR 510/510N RGBW LED Luminiare is operated in various RGBW8-bit Group Control Modes.

Table 6: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (RGBW 8 Bit Group Mode)

RGBW 8 BIT MODE			
DMX CHANNEL	**4 Group Mode**	**2 Group Mode**	**1 Group Mode**
1	Master Intensity	Master Intensity	Master Intensity
2	Color Presets	Color Presets	Color Presets
3	Strobe	Strobe	Strobe
4	Duration	Duration	Duration
5	Timing	Timing	Timing
6	Control	Control	Control
7	Red_1	Red_1-2	Red_1-4
8	Green_1	Green_1-2	Green_1-4
9	Blue_1	Blue_1-2	Blue_1-4
10	White_1	White_1-2	White_1-4
11	Red_2	Red_3-4	
12	Green_2	Green_3-4	
13	Blue_2	Blue_3-4	
14	White_2	White_3-4	
15	Red_3		
16	Green_3		
17	Blue_3		
18	White_3		
19	Red_4		
20	Green_4		
21	Blue_4		
22	White_4		

5. RGBW 16 - Bit Mode

Table 7 provides DMX channel mapping of all DMX512 control values when the SL BAR 510/510N RGBW LED Luminaire is in RGBW 16-bit DMX512 mode (as set by the luminaire's menu system).

Table 7: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (RGBW 16-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	**Default** - *recommended console default values*	Description
1 2	Master Intensity High Master Intensity Low	0 - 65535	0 - 100%	0	16 bit control for Intensity of LED settings.
3	Color Presets	0 - 255	0 - 100%	0	Variable color Presets as follows . . . Channel OFF (disabled) DMX 0 - 4 Preset 0 (OFF) DMX 5 - 6 Preset 1 (Primary Red) DMX 7 - 8 Preset 2 (Primary Green) DMX 9 - 10 Preset 3 (Primary Blue) DMX 11 - 12 Preset 4 (Orange) DMX 13 - 14 Preset 5 (Pink) DMX 15 - 16 Preset 6 (Yellow) DMX 17 - 18 Preset 7 (Magenta) DMX 19 - 20 Preset 8 (Day light Blue) DMX 21 - 22 Preset 9 (Warm White 3200K) DMX 23 - 24 Preset 10 (Cool White 5600K) DMX 25 - 26 Preset 11 DMX 27 - 28 Preset 12 DMX 29 - 30 Preset 13 DMX 31 - 32 Preset 14 DMX 33 - 34 Preset 15 DMX 35 - 36 Preset 16 DMX 37 - 38 Preset 17 DMX 39 - 40 Preset 18 DMX 41 - 42 Preset 19 DMX 43 - 44 Preset 20 DMX 45 - 46 Preset 21 DMX 47 - 48 Preset 22 DMX 49 - 50 Preset 23 DMX 51 - 52 Preset 24 DMX 53 - 54 Preset 25 DMX 55 - 56 Preset 26 DMX 57 - 58 Preset 27 DMX 59 - 60 Preset 28 DMX 61 - 62 Preset 29 DMX 63 - 64 Preset 30 DMX 65 - 66 Preset 31 DMX 67 - 68 CF_0_Color OFF DMX 69 - 70 CF_1_White 10000K DMX 71 - 72 CF_2_White 8000K DMX 73 - 74 CF_3_White 6500K DMX 75 - 76 CF_4_White 5600K DMX 77 - 78 CF_5_White 5000K DMX 79 - 80 CF_6_White 4500K DMX 81 - 82 CF_7_White 4000K DMX 83 - 84 CF_8_White 3200K DMX 85 - 86 CF_9_White 3000K DMX 87 - 88 CF_10_White 2700K DMX 89 - 90

Table 7: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (RGBW 16-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default - *recommended console default values*	Description	
3	Color Presets	0 - 255	0 - 100%	0	CF_11_Moroccan Pink	DMX 91 - 92
					CF_12_Pink	DMX 93 - 94
					CF_13_Flesh Pink	DMX 95 - 96
					CF_14_Bright Rose	DMX 97 - 98
					CF_15_Follies Pink	DMX 99 - 100
					CF_16_Fuchsia Pink	DMX 101 - 102
					CF_17_Surprise Pink	DMX 103 - 104
					CF_18_Congo Blue	DMX 105 - 106
					CF_19_Blue	DMX 107 - 108
					CF_20_Virgin Blue	DMX 109 - 110
					CF_21_Midnight Maya	DMX 111 - 112
					CF_22_Dluble C.T Blue	DMX 113 - 114
					CF_23_Slate Blue	DMX 115 - 116
					CF_24_Regal Blue	DMX 117 - 118
					CF_25_Fullt C.T Blue	DMX 119 - 120
					CF_26_Steel Blue	DMX 121 - 122
					CF_27_Lighter Blue	DMX 123 - 124
					CF_28_Cyan	DMX 125 - 126
					CF_29_Marine Blue	DMX 127 - 128
					CF_30_Soft Green	DMX 129 - 130
					CF_31_Moss Green	DMX 131 - 132
					CF_32_Green	DMX 133 - 134
					CF_33_Fem Green	DMX 135 - 136
					CF_34_JAS Green	DMX 137 - 138
					CF_35_Pale Green	DMX 139 - 140
					CF_36_Spring Yellow	DMX 141 - 142
					CF_37_Yellow	DMX 143 - 144
					CF_38_Deep Amber	DMX 145 - 146
					CF_39_Chrome Orange	DMX 147 - 148
					CF_40_Orange	DMX 149 - 150
					CF_41_Magenta	DMX 151 - 152
					CF_42_Flame Red	DMX 153 - 154
					CF_43_Purple	DMX 155 - 156
					Rotate CW Fast → Slow	DMX 157 - 171
					Rotate ACW Slow → Fast	DMX 172 - 186
					Random Color Fast → Slow	DMX 187 - 201

Table 7: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (RGBW 16-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default - *recommended console default values*	Description
3	Color Presets	0 - 255	0 - 100%	0	Chase1 DMX 202 - 204 Chase2 DMX 205 - 207 Chase3 DMX 208 - 210 Chase4 DMX 211 - 213 Chase5 DMX 214 - 216 Chase6 DMX 217 - 219 Chase7 DMX 220 - 222 Chase8 DMX 223 - 225 Chase9 DMX 226 - 228 Chase10 DMX 229 - 231 User Chase1 DMX 232 - 234 User Chase2 DMX 235 - 237 User Chase3 DMX 238 - 240 User Chase4 DMX 241 - 243 User Chase5 DMX 244 - 246 User Chase6 DMX 247 - 249 User Chase7 DMX 250 - 252 User Chase8 DMX 253 - 255
4	Strobe	0 - 255	0 - 100%	DMX0	Controls strobe operations as follows . . . Open = DMX 0 - 2 Closed = DMX 3 - 5 Slow Rand = DMX 6 - 7 Med Rand = DMX 8 - 10 Fast Rand = DMX 11 - 12 Strobe Range = DMX 13 - 127 (fastest) Pulse + Slow Rand = DMX 128 - 129 Pulse + Med Rand = DMX 130 - 131 Pulse + Fast Rand = DMX 132 - 133 Pulse + Range = DMX 134 - 191 Pulse - Slow Rand = DMX 192 - 193 Pulse - Med Rand = DMX 194 - 195 Pulse - Fast Rand = DMX 196 - 197 Pulse - Range = DMX 198 - 255
5	Duration	0 - 255	0 - 100%	0	Strobe's duration,Range is 0-85 0 = DMX 0 1 = DMX 1 - 3 x = (DMX Value-1)/3+1 85 = DMX 253-255

Table 7: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (RGBW 16-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	**Default** - *recommended console default values*	Description
6	Intensity Timing	0 - 255	0 - 100%	255	Allows for timing control of intensity, color, and zoom parameters. Channel should default to 255 for smoothest actions using console and/or manual fades. - See Timing Chart for more details.
7	Color Timing	0 - 255	0 - 100%	255	Allows for timing control of colors. Channel should default to 255 for smoothest actions using console and/or manual fades. - See Timing Chart for more details.
8	Control	0 - 255	0 - 100%	0	functions of the SL Series products. Set control channel value to desired action,Hold value for at least 5 seconds ,then turn to 0. Set control channel value to 0 without any scaling. Default Setting on Console = DMX 0-4 DIM Response _Normal = DMX 5 - 9 DIM Response_Incandescent = DMX 10 - 14 Dimming Curve_linear = DMX 30 - 34 Dimming Curve_Square = DMX 35- 39 Dimming Curve_S-Curve = DMX 40 - 44 Dimming Curve_PL-Curve = DMX 45 - 49 Calibration_OFF = DMX 70 - 74 Calibration_ON = DMX 75 - 79 Fan_Auto = DMX 80 - 84 Fan_Off = DMX 85 - 89 Reserves(Future use) = DMX 90 - 250
9 10	Red 1-4 High Red 1-4 Low	0 - 65535	0 - 100%	0	16 bit control of Red LEDs from 0 to full.
11 12	Green 1-4 High Green 1-4 Low	0 - 65535	0 - 100%	0	16 bit control of Green LEDs from 0 to full.
13 14	Blue 1-4 High Blue 1-4 Low	0 - 65535	0 - 100%	0	16 bit control of Blue LEDs from 0 to full.
15 16	White 1-4 High White 1-4 Low	0 - 65535	0 - 100%	0	16 bit control of White LEDs from 0 to full.

6. RGBW 16Bit Group Mode

Table 8 provides DMX channel mapping of all DMX512 control values when the SL BAR 510/510N RGBW LED Luminiare is operated in various RGBW 16bit DMX512 Group Control Modes.

Table 8: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (RGBW 16Bit Group Mode)

RGBW 16 BIT MODE			
DMX CHANNEL	4 Group MODE	2 Group MODE	1 Group MODE
1	Master Intensity - High	Master Intensity - High	Master Intensity - High
2	Master Intensity - Low	Master Intensity - Low	Master Intensity - Low
3	Color Presets	Color Presets	Color Presets
4	Strobe	Strobe	Strobe
5	Duration	Duration	Duration
6	Intensity Timing	Intensity Timing	Intensity Timing
7	Color Timing	Color Timing	Color Timing
8	Control	Control	Control
9	Red_1 - High Byte	Red_1-2 - High Byte	Red_1-4 - High Byte
10	Red_1 - Low Byte	Red_1-2 - Low Byte	Red_1-4 - Low Byte
11	Green_1 - High Byte	Green_1-2 - High Byte	Green_1-4 - High Byte
12	Green_1 - Low Byte	Green_1-2 - Low Byte	Green_1-4 - Low Byte
13	Blue_1 - High Byte	Blue_1-2 - High Byte	Blue_1-4 - High Byte
14	Blue_1 - Low Byte	Blue_1-2 - Low Byte	Blue_1-4 - Low Byte
15	White_1 - High Byte	White_1-2 - High Byte	White_1-4 - High Byte
16	White_1 - Low Byte	White_1-2 - Low Byte	White_1-4 - Low Byte
17	Red_2 - High Byte	Red_3-4 - High Byte	
18	Red_2 - Low Byte	Red_3-4 - Low Byte	
19	Green_2 - High Byte	Green_3-4 - High Byte	
20	Green_2 - Low Byte	Green_3-4 - Low Byte	
21	Blue_2 - High Byte	Blue_3-4 - High Byte	
22	Blue_2 - Low Byte	Blue_3-4 - Low Byte	
23	White_2 - High Byte	White_3-4 - High Byte	
24	White_2 - Low Byte	White_3-4 - Low Byte	
25	Red_3 - High Byte		
26	Red_3 - Low Byte		
27	Green_3 - High Byte		
28	Green_3 - Low Byte		
29	Blue_3 - High Byte		
30	Blue_3 - Low Byte		
31	White_3 - High Byte		
32	White_3 - Low Byte		
33	Red_4 - High Byte		
34	Red_4 - Low Byte		
35	Green_4 - High Byte		
36	Green_4 - Low Byte		
37	Blue_4 - High Byte		
38	Blue_4 - Low Byte		
39	White_4 - High Byte		
40	White_4 - Low Byte		

15. HSIC Mode

Table 17 provides DMX channel mapping of all DMX512 control values when the SL BAR 510/510N RGBW LED Luminaire is in HSIC Mode (as set by the luminaire's menu system).

Table 17: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (HSIC Mode)

DMX Channel	Parameter	Range DMX	Range%	Default	Description
1	Master Intensity	0 - 255	0 - 100%	0	8 bit control for Intensity of LED settings.
2	Strobe	0 - 255	0 - 100%	0	Controls strobe operations as follows... Open = DMX 0 - 2 Closed = DMX 3 - 5 Slow Rand = DMX 6 - 7 Med Rand = DMX 8 - 10 Fast Rand = DMX 11 - 12 Strobe Range = DMX 13 - 127 (fastest) Pulse + Slow Rand = DMX 128 - 129 Pulse + Med Rand = DMX 130 - 131 Pulse + Fast Rand = DMX 132 - 133 Pulse + Range = DMX 134 - 191 Pulse - Slow Rand = DMX 192 - 193 Pulse - Med Rand = DMX 194 - 195 Pulse - Fast Rand = DMX 196 - 197 Pulse - Range = DMX 198 - 255
3	Duration	0 - 255	0 - 100%	0	Strobe's duration,Range is 0-85 0 = DMX 0 1 = DMX 1 - 3 x = (DMX Value-1)/3+1 85 = DMX 253-255
4	Timing	0 - 255	0 - 100%	0	Allows for timing control of intensity, color, and zoom parameters. Channel should default to 255 for smoothest actions using console and/or manual fades. - See Timing Chart for more details.
5	Control	0 - 255	0 - 100%	0	functions of the SL Series products. Set control channel value to desired action,Hold value for at least 5 seconds ,then turn to 0. Set control channel value to 0 without any scaling. Default Setting on Console = DMX 0-4 DIM Response_Normal = DMX 5 - 9 DIM Response_Incandescent = DMX 10 - 14 Dimming Curve_linear = DMX 30 - 34 Dimming Curve_Square = DMX 35- 39 Dimming Curve_S-Curve = DMX 40 - 44 Dimming Curve_PL-Curve = DMX 45 - 49 Calibration_OFF = DMX 70 - 74 Calibration_ON = DMX 75 - 79 Fan_Auto = DMX 80 - 84 Fan_Off = DMX 85 - 89 Reserves(Future use) = DMX 90 - 250
6 7	Hue1-4 HighByte Hue1-4 Low Byte	0 - 65535	0 - 100%		16 bit control of Hue 0 - 359^0
8	Saturation 1-4	0 - 255	0 - 100%	0	8 bit control of Saturation.
9	Intensity 1-4	0 - 255	0 - 100%	0	8 bit control for Intensity.
10	CCT 1-4	0 - 255	0 - 100%	0	Variable control of correlated color temperature from Channel OFF (disabled) DMX 0 - 5 2700K - 6500K. DMX 6 - 255

16. HISC GROUP Mode

Table 18 provides DMX channel mapping of all DMX512 control values when the SL BAR 510/510N RGBW LED Luminiare is operated in various HSIC DMX512 Group Control Modes.

Table 18: SL BAR 510/510N RGBW LED Luminaire DMX Channel Mapping (HSIC GROUP Mode)

HSIC MODE			
DMX CHANNEL	4 Group MODE	2 Group MODE	1 Group MODE
1	Master Intensity	Master Intensity	Master Intensity
2	Strobe	Strobe	Strobe
3	Duration	Duration	Duration
4	Timing	Timing	Timing
5	Control	Control	Control
6	Hue_1 - High Byte	Hue_1-2 - High Byte	Hue_1-4 - High Byte
7	Hue_1 - Low Byte	Hue_1-2 - Low Byte	Hue_1-4 - Low Byte
8	Saturation_1	Saturation_1-2	Saturation_1-4
9	Intensity_1	Intensity_1-2	Intensity_1-4
10	CCT_1	CCT_1-2	CCT_1-4
11	Hue_2 - High Byte	Hue_3-4 - High Byte	
12	Hue_2 - Low Byte	Hue_3-4 - Low Byte	
13	Saturation_2	Saturation_3-4	
14	Intensity_2	Intensity_3-4	
15	CCT_2	CCT_3-4	
16	Hue_3 - High Byte		
17	Hue_3 - Low Byte		
18	Saturation_3		
19	Intensity_3		
20	CCT_3		
21	Hue_4 - High Byte		
22	Hue_4 - Low Byte		
23	Saturation_4		
24	Intensity_4		
25	CCT_4		

2. DMX Timing Channel Detail

Timing channel control improves the timed moves of certain groups of parameters. The SL BAR 510/510N RGBW LED Luminaire provides timing channels in 16-bit mode (one for intensity time and one for color time) and one timing channel in 8-bit (color and intensity timing combined). The luminaire uses its timing channel value to calculate a smooth continuous operation for a given time and transition.

Guidelines:

- Timing channels support time values from zero to 60 minutes.
- To use a timing channel instead of console timing, it is recommended to set the timing channel to the desired value and set cue and/or console cue fade time to zero. A combination of time controls can produce unexpected results.
- The default value setting in the profile should be 255 (proportional control) to allow smooth operation when using console timing.
- The timing channel data should change as a snap. A zero value will give the fastest operation, however, without any smoothing this can appear "steppy" in console timed moves.

Refer to "DMX Timing Channel Detail" for more information.

Table 19: SL BAR 510/510N RGBW LED Luminaire Timing Channel Detail

% Value	DMX	= Seconds (*unless noted*)
0	0	0 (Full Speed)
	1	0.2
	2	0.4
1	3	0.6
	4	0.8
2	5	1
	6	1.2
	7	1.4
3	8	1.6

Table 19: SL BAR 510/510N RGBW LED Luminaire Timing Channel Detail

% Value	DMX	= Seconds (unless noted)
	9	1.8
4	10	2
	11	2.2
	12	2.4
5	13	2.6
	14	2.8
6	15	3
	16	3.2
	17	3.4
7	18	3.6
	19	3.8
8	20	4
	21	4.2
	22	4.4
9	23	4.6
	24	4.8
10	25	5
	26	5.2
	27	5.4
11	28	5.6
	29	5.8
	30	6
12	31	6.2
	32	6.4
13	33	6.6
	34	6.8
	35	7
14	36	7.2
	37	7.4
15	38	7.6
	39	7.8
	40	8
16	41	8.2
	42	8.4
17	43	8.6
	44	8.8
	45	9
18	46	9.2
	47	9.4
19	48	9.6
	49	9.8
	50	10
20	51	10.2
	52	10.4
	53	10.6
21	54	10.8
	55	11
22	56	11.2
	57	11.4
	58	11.6
23	59	11.8

Table 19: SL BAR 510/510N RGBW LED Luminaire Timing Channel Detail

% Value	DMX	= Seconds (unless noted)
	60	12
24	61	12.2
	62	12.4
	63	12.6
25	64	12.8
	65	13
26	66	13.2
	67	13.4
	68	13.6
27	69	13.8
	70	14
28	71	14.2
	72	14.4
	73	14.6
29	74	14.8
	75	15
30	76	15.2
	77	15.4
	78	15.6
31	79	15.8
	80	16
	81	16.2
32	82	16.4
	83	16.6
33	84	16.8
	85	17
	86	17.2
34	87	17.4
	88	17.6
35	89	17.8
	90	18
	91	18.2
36	92	18.4
	93	18.6
37	94	18.6
	95	19
	96	19.2
38	97	19.4
	98	19.6
39	99	19.8
	100	20
	101	21
40	102	22
	103	23
	104	24
41	105	25
	106	26
42	107	27
	108	28
	109	29
43	110	30

Table 19: SL BAR 510/510N RGBW LED Luminaire Timing Channel Detail

% Value	DMX	= Seconds (unless noted)
	111	31
44	112	32
	113	33
	114	34
45	115	35
	116	36
46	117	37
	118	38
	119	39
47	120	40
	121	41
48	122	42
	123	43
	124	44
49	125	45
	126	46
	127	47
50	128	48
	129	49
51	130	50
	131	51
	132	52
52	133	53
	134	54
53	135	55
	136	56
	137	57
54	138	58
	139	59
55	140	60
	141	61
	142	62
56	143	63
	144	64
57	145	65
	146	66
	147	67
58	148	68
	149	69
59	150	70
	151	71
	152	72
60	153	73
	154	74
	155	75
61	156	76
	157	77
62	158	78
	159	79
	160	80
63	161	81

Table 19: SL BAR 510/510N RGBW LED Luminaire Timing Channel Detail

% Value	DMX	= Seconds (unless noted)
	162	82
64	163	83
	164	84
	165	85
65	166	86
	167	87
66	168	88
	169	89
	170	90
67	171	91
	172	92
68	173	93
	174	94
	175	95
69	176	96
	177	97
	178	98
70	179	99
	180	100
71	181	101
	182	102
	183	103
72	184	104
	185	105
73	186	106
	187	107
	188	108
74	189	109
	190	110
75	191	111
	192	112
	193	113
76	194	114
	195	115
77	196	116
	197	117
	198	118
78	199	119
	200	120
79	201	121
	202	122
	203	123
80	204	124
	205	125
81	206	126
	207	127
	208	128
82	209	129
	210	130
	211	131
83	212	132

Table 19: SL BAR 510/510N RGBW Luminaire Timing Channel Detail

% Value	DMX	= Seconds (unless noted)
	213	133
84	214	134
	215	135
	216	136
85	217	137
	218	138
86	219	139
	220	140
	221	141
87	222	142
	223	143
88	224	144
	225	145
	226	146
89	227	147
	228	148
	229	149
90	230	150
	231	151
91	232	152
	233	153
	234	154
92	235	155
	236	156
93	237	157
	238	158
	239	159
94	240	160
	241	161
95	242	162
	243	163
	244	164
96	245	165
	246	5 Minutes
97	247	15 Minutes
	248	30 Minutes
	249	60 Minutes
98	250*	60mS
	251*	80mS
99	252*	100mS
	253*	120mS
	254*	140mS
100	255* (Default)	160mS

Note: DMX value 250 to 255 provide smoothing when using console fade timing. DMX value 255(recommended default) will provide the smoothest timing.

RDM PARAMETER IDS

1. SL BAR 510/510N RGBW LED Luminaire RDM Parameter IDs

The following tables outline and describe all the RDM parameters Ids associated with SL BAR 510/510N RGBW LED Luminaires.

Table 20: SL BAR 510/510N RGBW LED Luminaire RDM Product Parameters IDs

Model ID	Manufacturer	Model Description	Product Category
0x11D0	Philips Entertain. Lighting Asia	SL BAR 510/510N (RGBW)	0x0509

Table 21: SL BAR 510/510N RGBW LED Luminaire RDM UID

UID					
MSB of ESTA 50H	LSB of ESTA 41H	1st of Unique Seq	2nd of Unique Seq	3rd of Unique Seq	4th of Unique Seq

Table 22: SL BAR 510/510N RGBW LED Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
		Category - Network Management			
		DISC_UNIQUE_BRANCH	0x0001		■
		DISC_MUTE	0x0002		■
		DISC_UN_MUTE	0x0003		■
■		PROXIED_DEVICES	0x0010		
■		PROXIED_DEVICES_COUNT	0x0011		
■	■	COMMS_STATUS	0x0015		
		Category - Status Collection			
■		QUEUED_MESSAGE	0x0020		■
■		STATUS_MESSAGES	0x0030		■
■		STATUS_ID_DESCRIPTION	0x0031		■
	■	CLEAR_STATUS_ID	0x0032		■
■	■	SUB_DEVICE_STATUS_REPORT_THRESHOLD	0x0033		
		Category - RDM Information			
■		SUPPORTED_PARAMETERS	0x0050	Support required only if supporting Parameters beyond the minimum required set.	■
■		PARAMETER_DESCRIPTION	0x0051	Support required for Manufacturer -Specific PIDs exposed in SUPPORTED_PARAMETERS message.	■

Table 22: SL BAR 510/510N RGBW LED Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
		Category - Product Information			
■		DEVICE_INFO	0x0060		■
■		PRODUCT_DETAIL_ID_LIST	0x0070		
■		DEVICE_MODEL_DESCRIPTION	0x0080		■
■		MANUFACTURER_LABEL	0x0081		■
■	■	DEVICE_LABEL	0x0082		■
■	■	FACTORY_DEFAULTS	0x0090		■
■		LANGUAGE_CAPABILITIES	0x00A0		
■	■	LANGUAGE	0x00B0		
■		SOFTWARE_VERSION_LABEL	0x00C0		■
■		BOOT_SOFTWARE_VERSION_ID	0x00C1		
■		BOOT_SOFTWARE_VERSION_LABLE	0x00C2		
		Category - DMX512 Setup			
■	■	DMX_PERSONALITY	0x00E0		■
■		DMX_PERSONALITY_DESCRIPTION	0x00E1		■
■	■	DMX_START_ADDRESS	0x00F0	Required if device uses a DMX Slot	■
■		SLOT_INFO	0x0120		■
■		SLOT_DESCRIPTION	0x0121		■
■		DEFAULT_SLOT_VALUE	0x0122		
		Category - Sensors 0x02xx			
■		SENSOR_DEFINITION	0x0200		■
■	■	SENSOR_VALUE	0x0201		■
	■	RECORD_SENSORS	0x0202		
		Category - Dimmer Settings 0x03xx - FUTURE USE			
		Category - Power / Lamp Settings 0x04xx			
■	■	DEVICE_HOURS	0x0400		
■	■	LAMP_HOURS	0x0401		
■	■	LAMP_STRIKES	0x0402		
■	■	LAMP_STATE	0x0403		
■	■	LAMP_ON_MODE	0x0404		
■	■	DEVICE_POWER_CYCLES	0x0405		
		Category - Display Settings 0x05xx			
■	■	DISPLAY_INVERT	0x0500		■
■	■	DISPLAY_LEVEL	0x0501		
		Category - Configuration 0x06xx			
■	■	PAN_INVERT	0x0600		
■	■	TILT_INVERT	0x0601		
■	■	PAN_TILT_SWAP	0x0602		
■	■	REAL_TIME_CLOCK	0x0603		
		Category - Control 0x10xx			
■	■	IDENTIFY_DEVICE	0x1000		■
	■	RESET_DEVICE	0x1001		

Table 22: SL BAR 510/510N RGBW LED Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
■	■	POWER_STATE	0x1010		
■	■	PERFORM_SELFTEST	0x1020		
■		SELF_TEST_DESCRIPTION	0x1021		
	■	CAPTURE_PRESET	0x1030		
■	■	PRESET_PLAYBACK	0x1031		

Table 23: SL BAR 510/510N RGBW LED Luminaire RDM Parameter Status IDs

Manufacturer Specific messages are in the range of 0x8000 - 0xFFDF. Each Manufacturer-specific Status ID shall have a unique meaning, which shall be consistent across all products having a given Manufacturer ID. See Table B-2, ANSI E1.20-2010				
Status ID Message	**Value**	**Data Value 1**	**Data Value 2**	**Status ID Description**
8100H		00H	00H	ALL OK

Table 24: SL BAR 510/510N RGBW LED Luminaire RDM Parameter Specific PIDs

Get Allowed	Set Allowed	RDM Parameter IDs	Type	Length	Unit	Prefix	Min	Max	Default	Description
Category - Manufacturer Defined PIDs - Range is 0x80000-0xffdf(See ANSI E1.20-2010 Standard, Table A-3)										
■	■	8A00H	U8	1	NONE	NONE	0	100	100	DIMMER
■	■	8AB2H	U8	1	NONE	NONE	1	18	1	Chase
■	■	8AB05H	U8	1	NONE	NONE	0	43	0	Color Filter
■	■	8AB1H	U8	1	NONE	NONE	0	31	0	Preset
■	■	8A92H	U8	1	NONE	NONE	0	255	0	Strobe
■	■	8A94H	U8	1	NONE	NONE	1	255	0	Duration
■	■	8A97H	U8	1	NONE	NONE	0	1	0	Fan AUTO/OFF setup
■	■	8AC0H	U8	1	NONE	NONE	0	255	255	Intensity Timing
■	■	8AC2H	U8	1	NONE	NONE	0	255	255	Color Timing
■	■	8A40H	U8	1	NONE	NONE	0	1	0	Link Mode
■	■	8A42H	U8	1	NONE	NONE	0	1	0	Incandescent Effect
■	■	8AA1H	U8	1	NONE	NONE	0	3	0	Dimming Curve
■	■	8A0CH	U8	1	NONE	NONE	0	3	0	DMX FAIL MODE
■	■	8AA0H	U8	1	NONE	NONE	0	4	255	Backlight off Time
■	■	8AA2H	U8	1	NONE	NONE	0	94	255	Power Up Setup
■	■	8A44H	U8	1	NONE	NONE	0	1	0	Calibration ON/OFF Setup
■	■	8A41H	U8	1	NONE	NONE	0	1	0	Lock Fixture

CLEANING AND CARE

WARNING! All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when luminaire is powered. Wear appropriate protective eye wear and gloves when cleaning the fixture. All service and maintenance, other than described herein, should be performed by a qualified technician or Authorized Service Center.

1. Special Cleaning and Care Insturctions

Being a solid-state fixture, and unlike most fixtures, the SL BAR 510/510N RGBW LED Luminaire requires very little routine maintenance by the user. This section covers portions of the luminaire that can be removed for cleaning.

The SL BAR 510/510N RGBW LED Luminaire special care when it comes to cleaning front lens assembly. Additional care needs to be taken with the plastic components because they are much easier to scratch or damage than glass.

The following is a list of cleaningmaterials required to care for your SL BAR 510/510N RGBW LED Luminaire:

- Lint free lens tissue
- Lint or powder free gloves
- Reagent grade isopropyl alcohol*
- A mild soap solution

Note: *Reagent grade isopropyl alcohol is good to use on the SL BAR 510/510N RGBW LED Luminaire plastic optics with anti-reflection coatings.

If the lens is still dirty after using isopropyl alcohol, for instance if figerprints or oil is just redistributed and not cleaned off the optic, then a mild soap and water solution can be used to gently wash the lens. Repeat the cleaning with isopropyl alcohol to eliminate streaks and soap residue.

WARNING! Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the SL BAR 510/510N RGBW LED Luminaire. These types of cleaners or solvents can permanently damage the optics or housings of the fixture.

If you have any questions regarding the use or care of your SL BAR 510/510N RGBW LED Luminaire, please contact Showline technical support or your local Authorized Dealer.

2. Front Lens Cleaning

To clean the front lens:

Step 1. Turn off luminaire and allow to cool completely.
Step 2. Apply a small amount of reagent grade isopropyl alcohol to lint-free lens tissue.
Step 3. Wipe all debris, dirt, fingerprints, etc. from lens.
Step 4. Using a second lint-free lens tissue, wipe off any alcohol residue.

3. Service and Maintenance

For all other service and maintenance issues, please contact your local Showline office or an Authorized Service Center.

WARNING! Disassembly (other than as described herein), alterations, unauthorized service, etc. will void the product warranty. Contact your local Showline office or an Authorized Service Center for technical support and service.

TECHNICAL SPECIFICATIONS

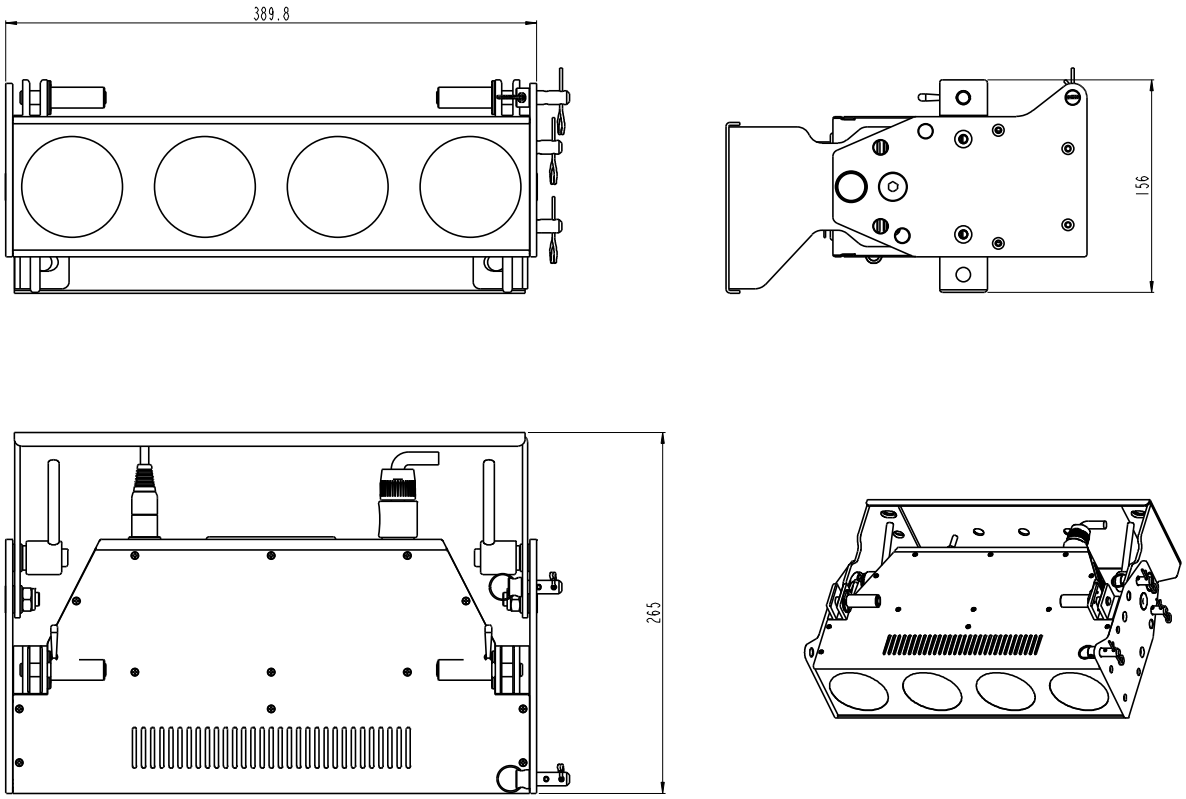
1. Operational Specifications

Source:	4 Osram Olson RGBW LED Array
Beam Angle:	24 Degrees
Light Output:	> 2000 lumens
Color Temerature:	2700 - 6500K (user adjustable)
Input Voltage:	100V to 240V(+/- 10%, auto-ranging)
Power Consumption:	110 Watts(max).
Frequency:	50/60Hz
Control Protocols:	DMX512(1990) / DMX512A (RDM) / On-Board Menu
Ambient Temperature:	-20 to 40 Degrees C (-4 to 104 Degrees F)
Humidity:	5%-95% Non condensing
Cooling:	Forced Air
Weight:	15.18 lbs(6.9 kg) - Luminaire only (no mount, AC input cable or accessories)
Housing:	Die Cast luminium with Powder Coating
Compliance:	CE Marked (International models)
IP Rating:	IP20

Note: Common model specifications shown. For specific model specifications, features, and accessories, refer to the product specification sheet for more details.

CE

2. Luminaire Dimensions



TECHNICAL SUPPORT

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