

# Showline

## SL ePAR 180 LED Luminaire



**PHILIPS**

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SL ePAR 180 LED Luminaire installation & User's Manual  
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## 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 subjected 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 National 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](http://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 the Showline two-year limited warranty containing specific terms and conditions can be obtained by contacting your local Showline office.

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# PREFACE

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## 1. About this Manual

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

- SL ePAR 180 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.

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**Note:** The SL ePAR 180 LED Luminaire is universal voltage 100 to 240 VAC (auto-ranging).

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## 2. Included Items



Each SL ePAR 180 LED Luminaire includes the following items:

- SL ePAR 180 LED Luminaire
- PC1BE - AC Power Input Cable (39 inches / 1 metre)
- Installation and User's Manual (*this document*)

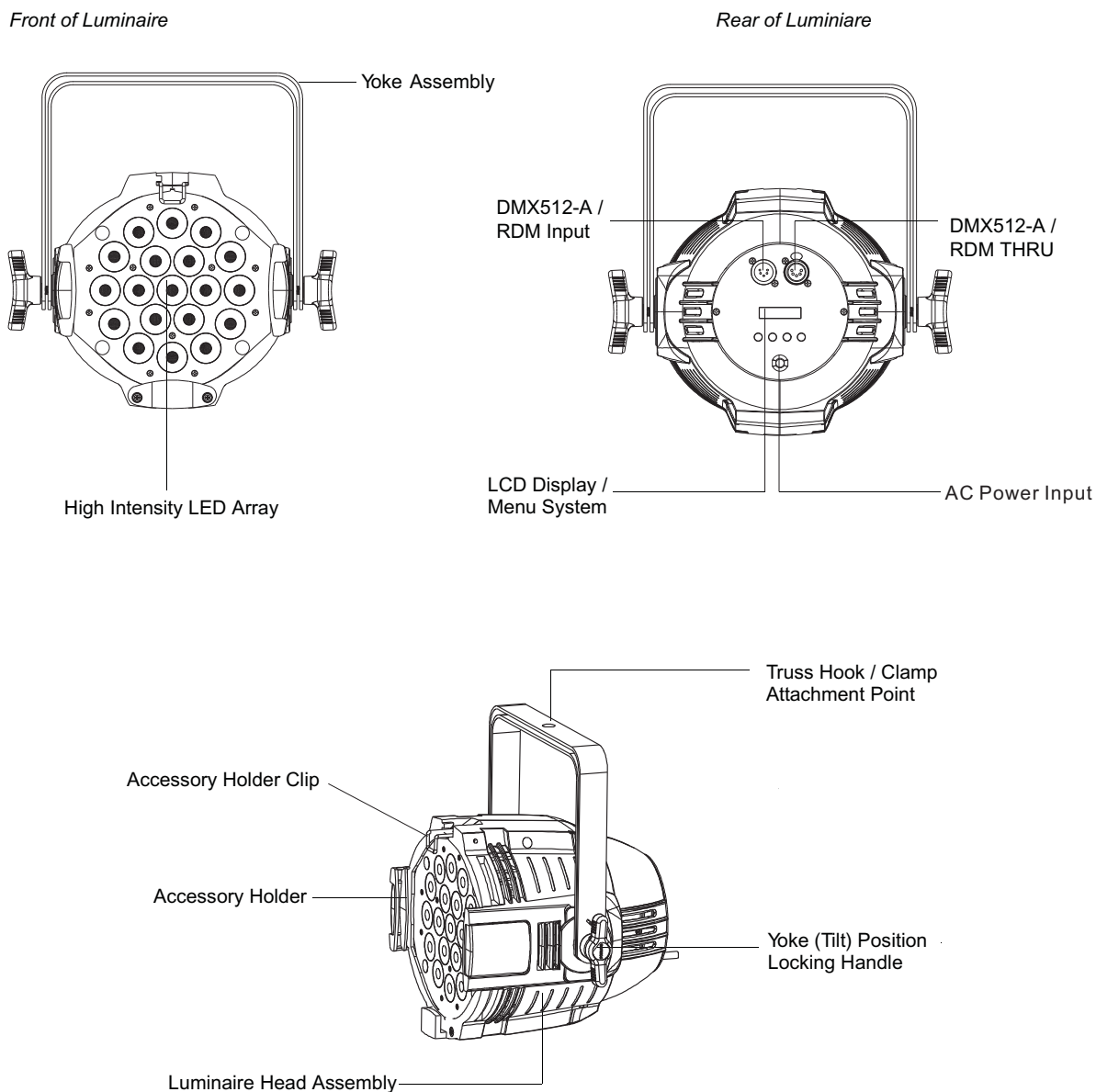
## 3. Accessories

Contact your Authorized Showline Dealer for prices and availability of all accessories for SL ePAR 180 LED luminaires.

## SL ePAR 180 LED Luminaire Overview

### 1. SL ePAR 180 LED Luminaire Components

#### Common Luminaire Components



**Figure 1: SL ePAR 180 LED Luminaire Components**

## LCD Display / Menu System

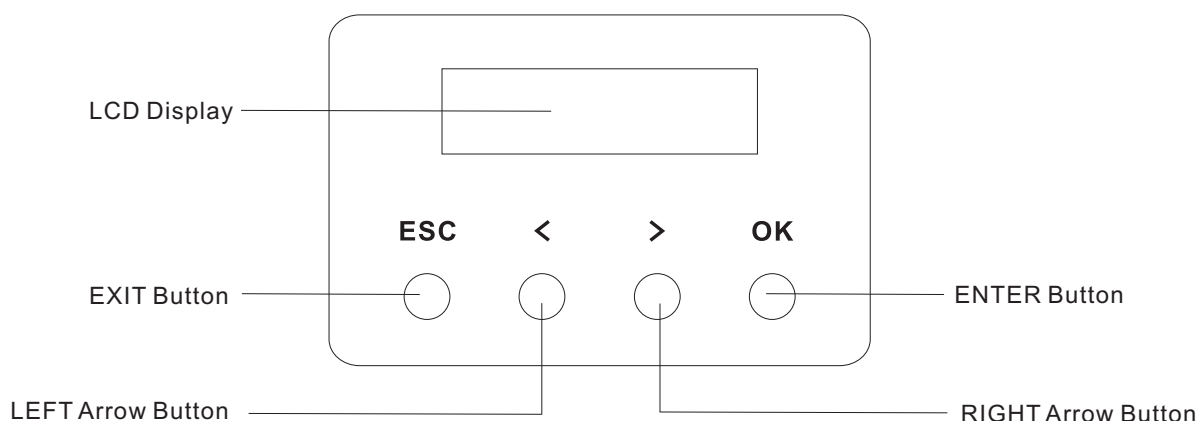


Figure 2: LCD Display & Menu System

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

# INSTALLATION AND SET UP

## 1. Power Requirements

The SL ePAR 180 LED Luminaire operates on AC input voltages from 100 to 240 VAC.



**WARNING!** This luminaire does not contain an ON/OFF switch. Always disconnect the power input cable to completely remove power from the luminaire when not in use.

### AC Power Operation

When connected to an AC source, the luminaire operates on 100 to 240 volts AC (+/- 10%, auto-ranging). The luminaire contains an auto-ranging power supply. Each luminaire can draw up to 180 Watts.

Table 1: SL ePAR 180 Voltage (VAC) vs. Current\*

Voltage (AC)	Total Current (A)	Voltage (AC)	Total Current (A)
100	1.80	180	1.0
110	1.63	190	0.95
120	1.50	200	0.90
130	1.38	210	0.86
140	1.29	220	0.82
150	1.20	230	0.78
160	1.13	240	0.75
170	1.06		

**Warning!**

Do not overload circuits!

To reduce the risk of electrical shock or fire, do not expose this luminaire to rain or moisture.

Don not stare at the light of this luminaire, the bright light can damage the eyes.

## 2. Connecting Power

Direct connection to a AC power source using an AC input cable.

A total of 3 wires/conductors need to be brought to the luminaire. The following wiring scheme is required:

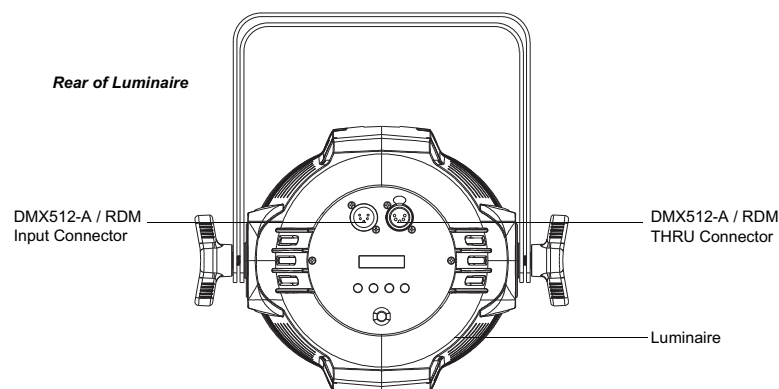
**Table 2: SL ePAR 180 LED Luminaire AC Input Connections**

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

Note: It is recommended that all the wiring works must be conducted by a qualified person.

## 3. Connecting to the DMX 512 Network

Basic DMX512 installation consists of connecting multiple SL ePAR 180 LED Luminaires together (up to 32 luminaires) in a "daisy-chain" fashion. A cable runs from the control console (or DMX512 control source) to the DMX connector on the first SL ePAR 180 LED Luminaire. Another cable runs from the other DMX connector on the first luminaire to a DMX connector on the next SL ePAR 180 LED Luminaire (or DMX512 device to be controlled).



**Figure 3: SL ePAR 180 LED Luminaire DMX512 Input / THRU Connections**

**Note:** For more information on DMX512 networking and systems, refer to ["Additional Resources for DMX512" on page 1](#). For SL ePAR 180 LED Luminaire DMX Mapping, refer to ["DMX CONTROL" on page 14](#).



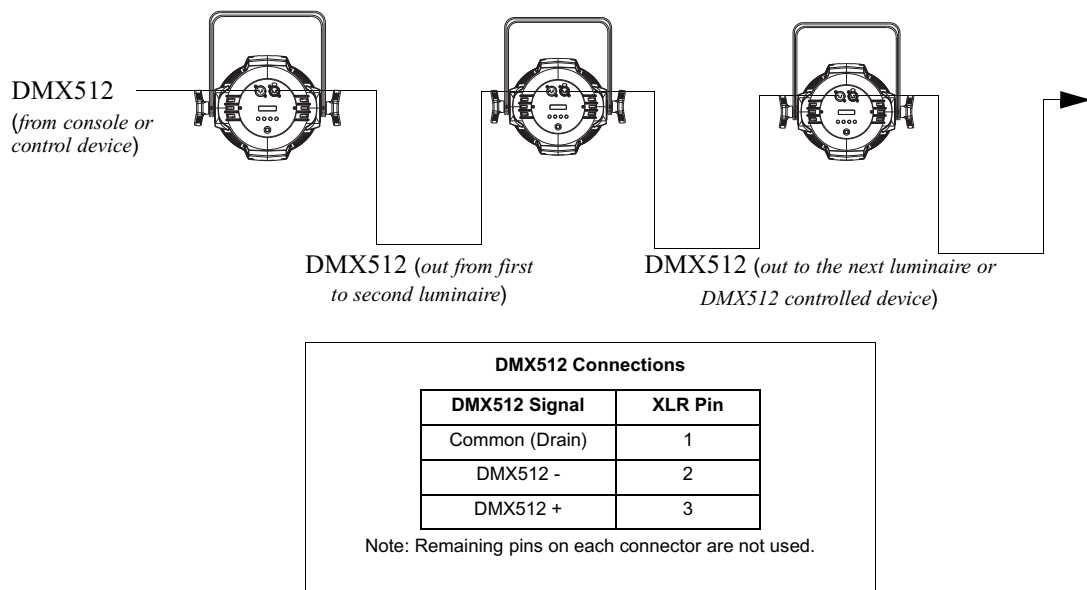


Figure 4: SL ePAR 180 LED Luminaire - DMX512 Connections

## 4. Mounting Luminaire

### Floor Mounting

The SL ePAR 180 LED Luminaire is designed to sit directly on its yoke assembly in a floor installation application. When used in this type of application, loosen the locking handle securing the inner portion of the yoke assembly and separate out (as shown in **Figure 5**). Be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling.

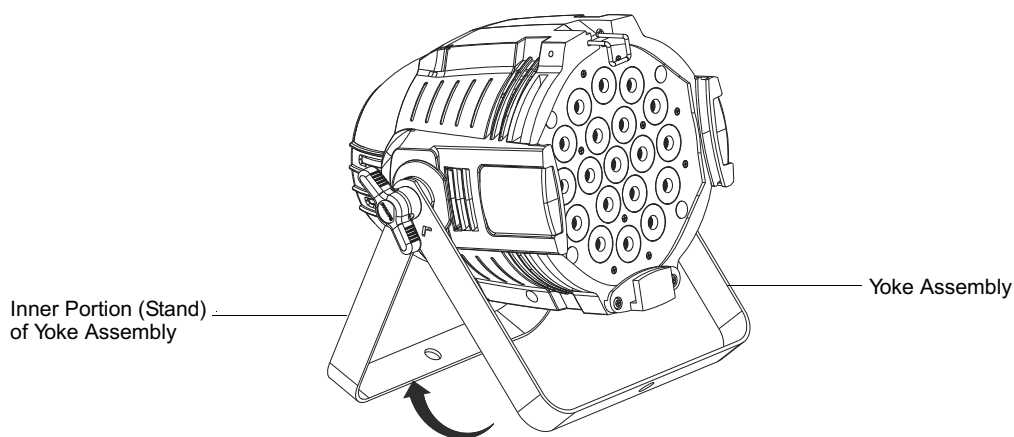


Figure 5: Floor Mounting

### Truss / Hanging Applications

The SL ePAR 180 LED Luminaire is provided with the ability to hang via truss hooks, clamps, etc. (sold separately). Simply attach hook, clamp, etc. to the SL ePAR 180 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 positioning. Refer to "[Luminaire Dimensions](#)" on page 35 for spacing (dimensional) requirements.

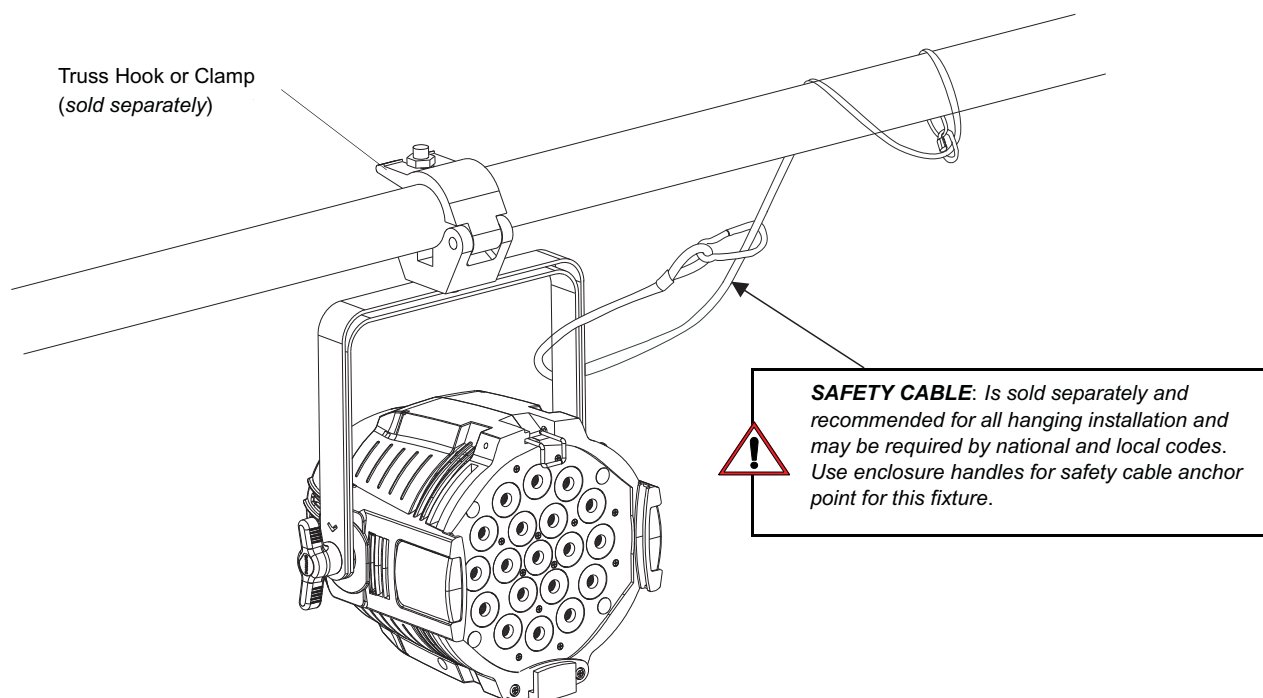


Figure 6: Mounting the Fixture - Hanging Applications

## OPERATION AND PROGRAMMING

### 1. LCD Display and Menu System

#### SL PAR 150 RGBW LED Luminaires

The SL ePAR 180 LED Luminaire's LCD Display and Menu System provides local control for accessing the following settings:

- Presets (Standard and User Defined)
- Colour Filters
- Effects (Chases - preloaded and user defined)
- Strobe / Timing
- Fixture Settings
- Fixture Lockout (to prevent changes)
- Password Setting
- Current Fixture Operational Status
- Setting the DMX512 Address

**Note:** If there are multiple luminaires in a system, changes would need to be made at each LCD Menu as desired. For the SL ePAR 180 LED Luminaire menu structure, see "[SL ePAR 180 LED Luminaire Menu Tree](#)" on page 11.

Upon power up, the LCD will display the main screen display menu of SL ePAR 180 LED Luminaire. Press "<" or ">" to select the press "OK" to enter the desired function menu.

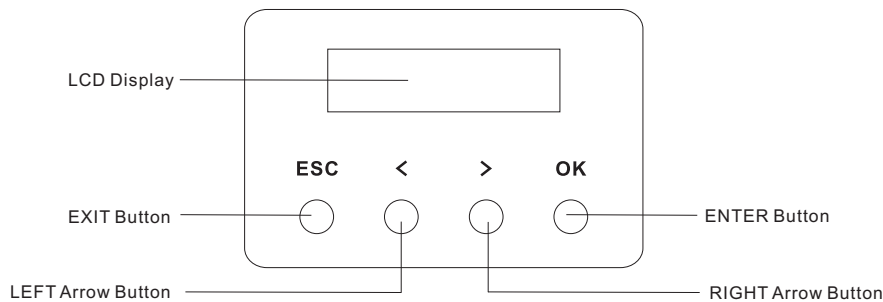


Figure 7: LCD Display and Menu System

## 2. LCD Display and Menu System Operation

The LCD Display Menu system consists of several categories. Upon power up, the LCD will display the main menu automatically. When the desired menu item is reached, press the OK button to display the menu options and to navigate and configure the menu options as required.

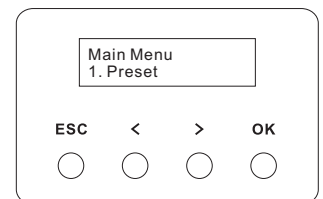
### To navigate and access the menu settings/selections:

- Step 1. Make sure the luminaire is powered and turned on.
  - Step 2. Press the desired button to access the menu categories.
  - Step 3. Use the “<” and “>” arrow buttons to navigate through the various options and settings.
  - Step 4. Make changes as desired.
- Press the “OK” button to accept changes.

### Preset

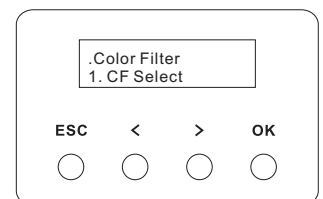
#### To edit and save a preset:

- Step 1. Press the “OK” button to access the Preset menu.
- Step 2. Use the LEFT and RIGHT arrow buttons to scroll through all presets and select the desired preset number(0 thru 31).
- Step 3. Press the “OK” button to select the desired menu. In RGB mode, the user can select **Intensity, Red, Green, B(Blue) and White**, and in HSIC mode, user can select menus among **Master Intensity, Hue, Saturation, Intensity and CCT**.
- Step 4. Once at the desired preset, use LEFT and RIGHT arrow buttons to adjust the parameter value as desired. Once all values are adjusted as desired, press the OK button.
- Step 5. Press the OK button to select Save a Preset, the screen will then display “Current Preset” and “Save to Preset”. Use the LEFT and RIGHT arrow buttons to make a selection, then press the OK button.
- Step 5. The preset is now saved. Press the ESC button to exit the current menu.



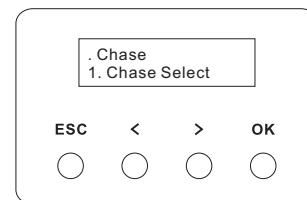
### Color Filter

- Step 1. Press the OK button to access the Colour Filter menu.
- Step 2. Use the LEFT and RIGHT arrow buttons to scroll through all menus.
- Step 3. Select the Colour Filter number(0-43) and press the OK button to access the menu.
- Step 4. Once at the desired menu, use the LEFT and RIGHT arrow buttons to adjust the parameter value of Master Intensity. Once all values are adjusted as desired, press the OK button.
- Step 5. The Colour Filter is now saved. Press the ESC button to exit the current menu.



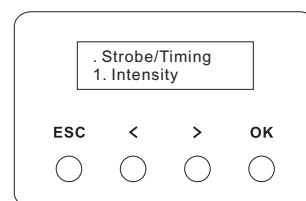
## Chase

- Step 1. Select Edit a Chase and press the OK button to access the Chase menu.
- Step 2. Use the LEFT and RIGHT arrow buttons to scroll through all menus.
- Step 3. Select the Built-in Chase X(1-10) or user Chase(1-8), then press the OK button to select the desired menu.
- Step 4. Once at the desired menu, use the LEFT and RIGHT arrow buttons to adjust the parameter value as desired. Once all values are adjusted as desired, press the OK button.
- Step 5. The Chase is now saved. Press the ESC button to exit the current menu.



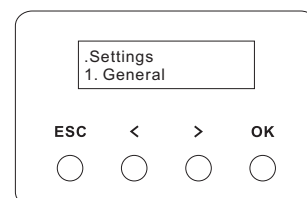
## Strobe/Timing

- Step 1. Press the OK button to access the Strobe/Timing menu.
- Step 2. Use the LEFT and RIGHT arrow buttons to scroll through all menus.
- Step 3. Press the OK button to select the desired menu from **Intensity**, **Strobe X(0-255)**, **Duration(0-85)**, **Intensity Timing(0.2 S-60Min)** and **Color Timing(0.2 S-60 Min)**.
- Step 4. Once at the desired menu, use the LEFT and RIGHT arrow buttons to adjust the parameter value as desired. Select Strobe X(0-2) means Open, Strobe X(3-5) means Close, and Strobe X(5-255) means Strobe Mode. Once all the values are adjusted as desired, press the OK button.
- Step 5. The Strobe/Timing is now saved. Press the ESC button to exit the current menu.



## Settings

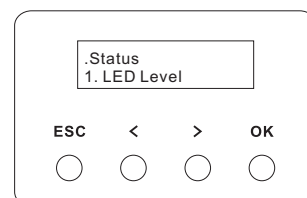
- Step 1. Press the OK button to access the Settings menu.
- Step 2. Use the LEFT and RIGHT arrow buttons to scroll through all menus.
- Step 3. Press CHECK MARK(OK)button to select the desired menu from **General**, **Factory Default**, **DMX** and **Display**.
- Step 4. Once at the desired menu, use the LEFT and RIGHT arrow buttons to adjust the related fixture information. Once all values are adjusted as desired, press the OK button.
- Step 5. The Setting information is now saved. Press the ESC button to exit the current menu.



## Status

### To check the fixtures' operational status:

- Step 1. Press the OK button to access the Status menu.
- Step 2. Use the LEFT and RIGHT arrow buttons to scroll through all the menus.
- Step 3. Press the OK button to select the desired menu from **LED Current Level**, **Temperature**, and **Other Info**.
- Step 4. Once at the desired menu, use the LEFT and RIGHT arrow buttons to check the related fixture information.



Note: For more information about Preset, Colour Filter, Chase, Strobe/Timing, Settings and Status, please refer to "SL ePAR 180 LED Luminaire Menu Tree" on page 11.

### 3. SL ePAR 180 LED Luminaire Menu Tree

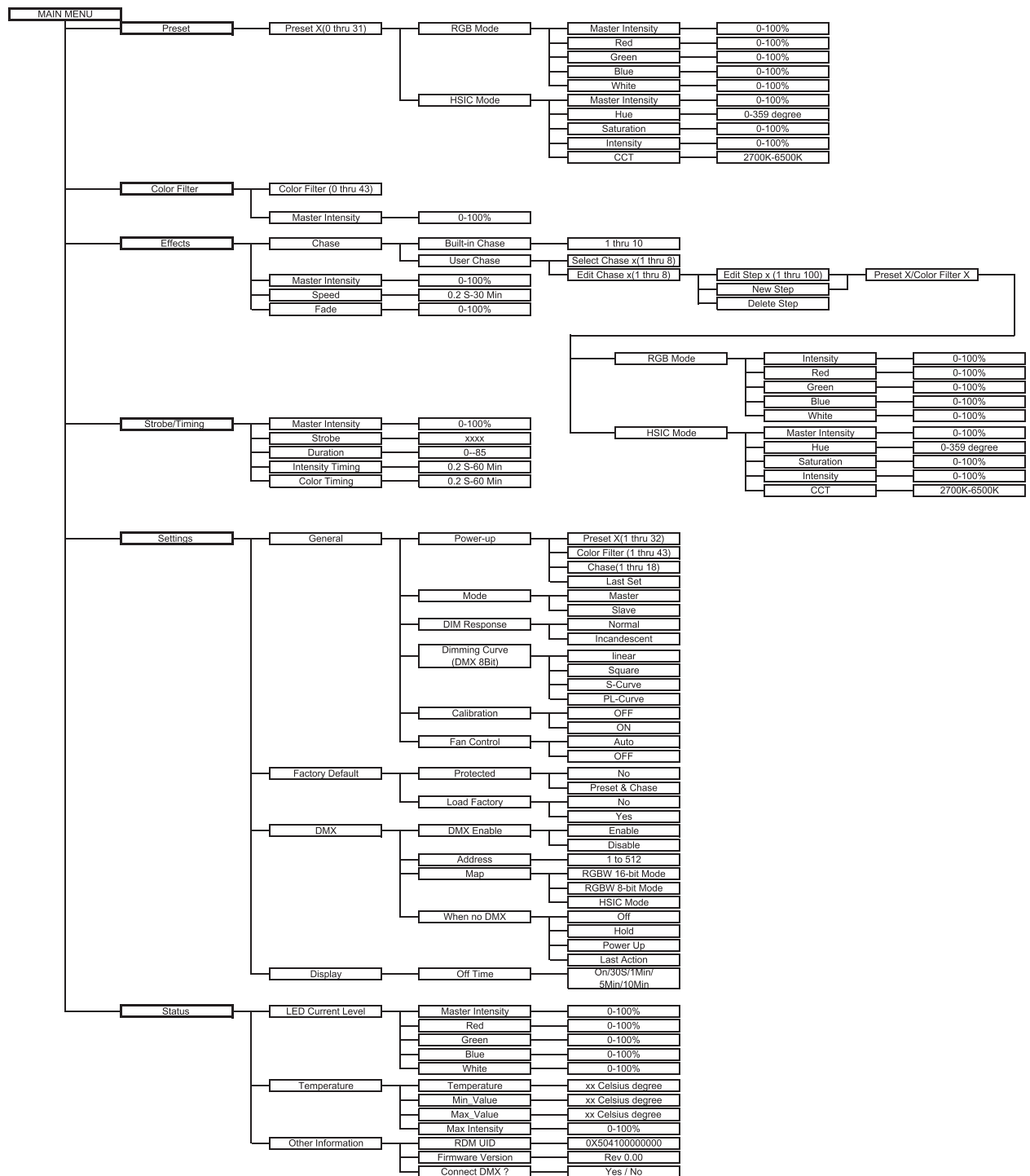
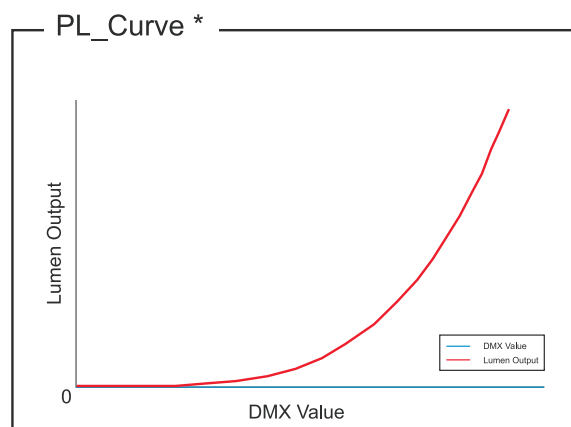
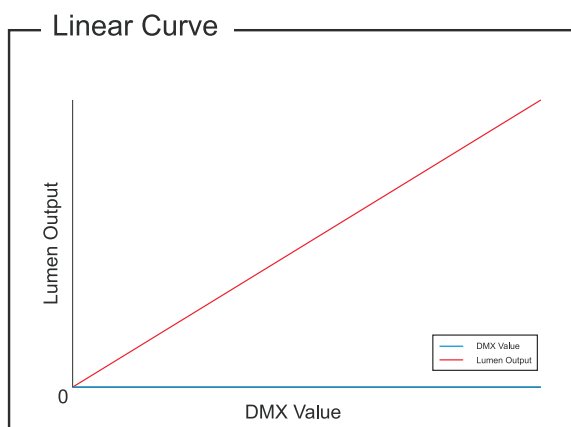


Figure 8: SL ePAR 180 LED Luminaire Menu Tree

## 4. 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 luminaries.

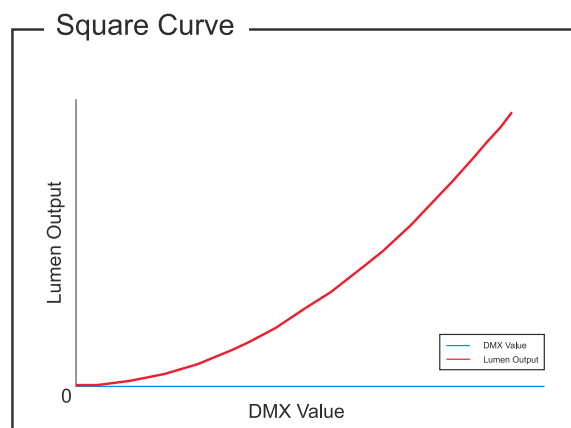
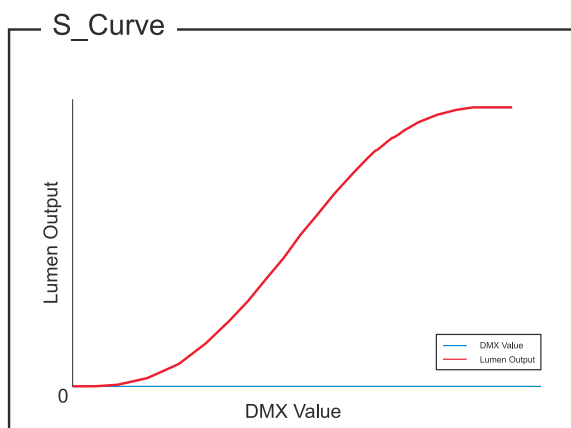


Figure 8: SL ePAR 180 LED Luminaire Dimmer Curves

## 5. Master / Slave Operational Mode

The Master / Slave Operational Mode allows one SL ePAR 180 LED Luminaire to act as the “Master” luminaire and all other connected luminaires are controlled by this luminaire. When a luminaire is set to “Slave” mode, it will only listen to and follow any commands send from a “Master” luminaire. Only one “Master” luminaire is allowed in this type of operation.

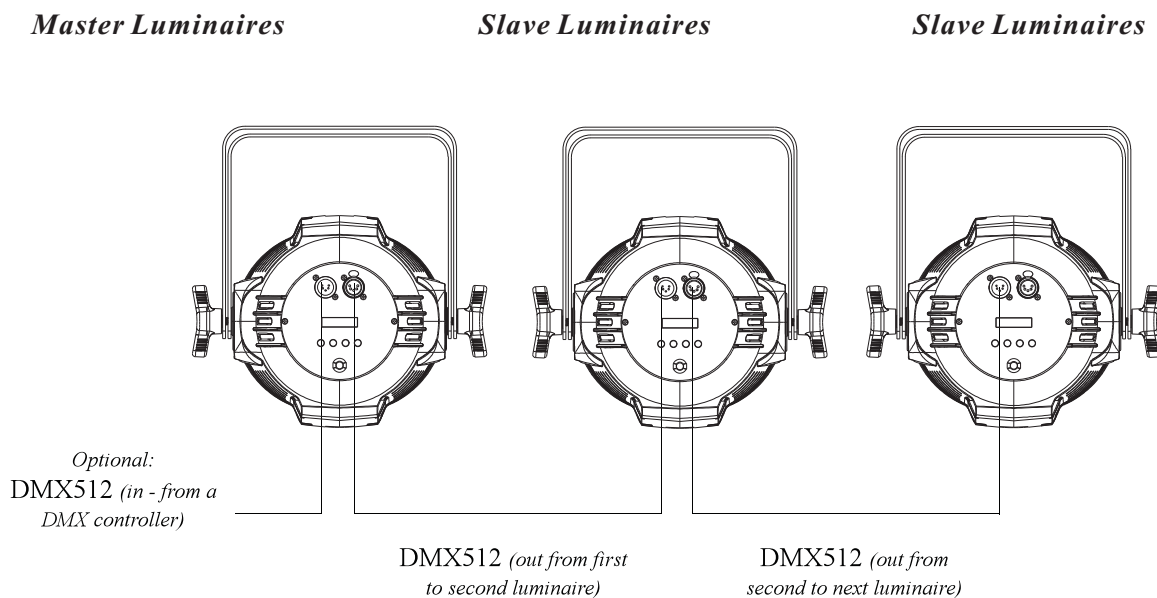
### To setup a master / slave network:

- Step 1. Set the first device in the DMX512 chain to **Master Mode** through the luminaires' menu system.
- Step 2. Set all other connected luminaires to **Slave Mode**.
- Step 3. The master luminaires can be controlled via DMX512, RDM or through standalone operation (self-contained network utilizing on-board effects). The slave luminaires will mimic the master luminaires' operation in all cases.

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**Note:** For more information on DMX512 networking and systems, refer to “[Additional Resources for DMX512](#)” on page 1. For SL ePAR 180 LED Luminaire DMX Mapping, refer to “[DMX CONTROL](#)” on page 14.

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**Figure 10: SL ePAR 180 LED Luminaire - Master / Slave Configuration**

## DMX CONTROL

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

**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 ePAR 180 LED Luminaire DMX Mapping

#### 16-Bit Mode

Table 3 provides DMX channel mapping of all DMX512 control values when the SL ePAR 180 LED Luminaire is in 16-bit DMX512 mode (as set by the luminaires' menu system).

**Table 3: SL ePAR 180 LED Luminaire DMX Channel Mapping (16-Bit Mode)**

DMX Channel	Parameter	Range DMX	Range%	Default - recommended console default values	Description
1	Master Intensity - High	0 - 65535	0 - 100%	0	16 bit control for Intensity of LED settings.
2	Master Intensity - Low				
3	Colour Presets	0 - 255	0 - 100%	0	Select presets, variable colour filters or chases 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



Table 3: SL ePAR 180 LED Luminaire DMX Channel Mapping (16-Bit Mode)

3	Colour Presets	0 - 255	0 - 100%	0	Select presets, variable colour filters or chases as follows:
					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
					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
					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%	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)

Table 3: SL ePAR 180 LED Luminaire DMX Channel Mapping (16-Bit Mode)

4	Strobe	0 - 255	0 - 100%	0	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
6	Intensity Timing	0 - 255	0 - 100%	255	Allows for timing control of intensity. Channel should default to 255 for smoothest actions using console and/or manual fades.
7	Colour Timing	0 - 255	0 - 100%	255	Allows for timing control of colours Channel should default to 255 for smoothest actions using console and/or manual fades.
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	Red - High Byte	0 - 65535	0 - 100%	DMX 0	16 bit control of Red LEDs from 0 to full.
10	Red - Low Byte				
11	Green - High Byte	0 - 65535	0 - 100%	DMX 0	16 bit control of Green LEDs from 0 to full.
12	Green - Low Byte				
13	Blue - High Byte	0 - 65535	0 - 100%	DMX 0	16 bit control of Blue LEDs from 0 to full.
14	Blue - Low Byte				
15	White - High Byte	0 - 65535	0 - 100%	DMX 0	16 bit control of White LEDs from 0 to full.
16	White - Low Byte				

### 8-Bit Mode

Table 4 provides DMX channel mapping of all DMX512 control values when the SL ePAR 180 LED Luminaire is in 8-bit DMX512 mode (as set by the luminaires menu system).

Table 4: SL ePAR 180 LED Luminaire DMX Channel Mapping (8-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default - recommended console default values	Description
1	Master Intensity	0 - 255	0 - 100%	0	8 bit control for Intensity of LED settings.
2	Colour Presets	0 - 255	0 - 100%	0	Select presets, variable colour filters or chases 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

Table 4: SL ePAR 180 LED Luminaire DMX Channel Mapping (8-Bit Mode)

2	Colour Presets	0 - 255	0 - 100%	0	Select presets, variable colour filters or chases as follows:
					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
					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

Table 4: SL ePAR 180 LED Luminaire DMX Channel Mapping (8-Bit Mode)

2	Colour Presets	0 - 255	0 - 100%	0	Select presets, variable colour filters or chases as follows: Random Color Fast → Slow DMX 187 - 201 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%	0	Controls strobe operations as follows . . . <b>Open</b> = 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
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.
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	0 - 255	0 - 100%	0	8 bit control of Red LEDs from 0 to full.
8	Green	0 - 255	0 - 100%	0	8 bit control of Green LEDs from 0 to full.
9	Blue	0 - 255	0 - 100%	0	8 bit control of Blue LEDs from 0 to full.
10	White	0 - 255	0 - 100%	0	8 bit control of White LEDs from 0 to full.

## HSIC Mode

Table 5 provides DMX channel mapping of all DMX512 control values when the SL ePAR 180 LED Luminaire is in HSIC (Hue, Saturation, Intensity, and Colour Correction) DMX512 mode (as set by the luminaires' menu system).

**Table 5: SL ePAR 180 LED Luminaire DMX Channel Mapping (HSIC Mode)**

DMX Channel	Parameter	Range DMX	Range%	Default - recommended console default values	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 . . . <b>Open</b> = 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%	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.
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	Hue - High Byte	0 - 65535	0 - 100%	0	16 bit control of Hue 0 - 359°
7	Hue - Low Byte				
8	Saturation	0 - 255	0 - 100%	0	8 bit control of Saturation.
9	Intensity	0 - 255	0 - 100%	0	8 bit control of Intensity.
10	CCT	0 - 255	0 - 100%	0	Variable control of correlated colour temperature from Channel OFF (disabled) DMX 0 - 5 2700K - 6500K. DMX 6 - 255

## 2. DMX Timing Channel Detail

Timing channel control improves the timed moves of certain groups of parameters. The SL ePAR 180 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 (colour 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 6: SL ePAR 180 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
	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	7.0
14	36	7.2
	37	7.4
15	38	7.6

Table 6: SL ePAR 180 LED Luminaire Timing Channel Detail

% Value	DMX	= Seconds (unless noted)
	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
	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

Table 6: SL ePAR 180 LED Luminaire Timing Channel Detail

% Value	DMX	= Seconds <i>(unless noted)</i>
	90	18
	91	18.2
36	92	18.4
	93	18.6
37	94	18.8
	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
	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



Table 6: SL ePAR 180 LED Luminaire Timing Channel Detail

% Value	DMX	= Seconds (unless noted)
	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
	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

Table 6: SL ePAR 180 LED Luminaire Timing Channel Detail

% Value	DMX	= Seconds (unless noted)
	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
	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

**Table 6: SL ePAR 180 LED Luminaire Timing Channel Detail**

% Value	DMX	= Seconds (unless noted)
	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

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

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## RDM PARAMETER IDS

### 1. SL ePAR 180 LED Luminaire RDM Parameter IDs

The following tables outline and describe all the RDM parameters IDs associated with SL ePAR 180 LED Luminaires.

- Table 7, “SL ePAR 180 LED Luminaire RDM Product Parameters IDs”
- Table 8, “SL ePAR 180 LED Luminaire RDM UID”
- Table 9, “SL ePAR 180 LED Luminaire RDM Parameters IDs”
- Table 10, “SL ePAR 180 LED Luminaire RDM Manufacturer Status IDs”, on page 28
- Table 11, “SL ePAR 180 LED Luminaire RDM Manufacturer Specific PIDs”, on page 28

**Table 7: SL ePAR 180 LED Luminaire RDM Product Parameters IDs**

Model ID	Manufacturer	Model Description	Product Category
Unique Seq.	Philips Entertainment. Lighting Asia	SL ePAR 180	0x0509

**Table 8: SL ePAR 180 LED Luminaire RDM UID**

UID					
MSB of ESTA 50H	LSB of ESTA 41H	MSB of Unique Seq.	LSB of Unique Seq.	MSB of Unique Seq.	LSB of Unique Seq.

**Table 9: SL ePAR 180 LED Luminaire RDM Parameters IDs**

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
<i>Category - Network Management</i>					
		DISC_UNIQUE_BRANCH	0x0001		■
		DISC_MUTE	0x0002		■
		DISC_UN_MUTE	0x0003		■
■		PROXIED_DEVICES	0x0010		
■		PROXIED_DEVICES_COUNT	0x0011		
■	■	COMMS_STATUS	0x0015		
<i>Category - Status Collection</i>					
■		QUEUED_MESSAGE	0x0020		■
■		STATUS_MESSAGES	0x0030		■
■		STATUS_ID_DESCRIPTION	0x0031		■
	■	CLEAR_STATUS_ID	0x0032		■
■	■	SUB_DEVICE_STATUS_REPORT_THRESHOLD	0x0033		
<i>Category - RDM Information</i>					
■		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 9: SL ePAR 180 LED Luminaire RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
<b>Category - Product Information</b>					
■		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_LABEL	0x00C2		
<b>Category - DMX512 Setup</b>					
■	■	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		
<b>Category - Sensors 0x02xx</b>					
■		SENSOR_DEFINITION	0x0200		■
■	■	SENSOR_VALUE	0x0201		■
	■	RECORD_SENSORS	0x0202		
<b>Category - Dimmer Settings 0x03xx - FUTURE USE</b>					
<b>Category - Power / Lamp Settings 0x04xx</b>					
■	■	DEVICE_HOURS	0x0400		
■	■	LAMP_HOURS	0x0401		
■	■	LAMP_STRIKES	0x0402		
■	■	LAMP_STATE	0x0403		
■	■	LAMP_ON_MODE	0x0404		
■	■	DEVICE_POWER_CYCLES	0x0405		
<b>Category - Display Settings 0x05xx</b>					
■	■	DISPLAY_INVERT	0x0500		
■	■	DISPLAY_LEVEL	0x0501		
<b>Category - Configuration 0x06xx</b>					
■	■	PAN_INVERT	0x0600		
■	■	TILT_INVERT	0x0601		
■	■	PAN_TILT_SWAP	0x0602		
■	■	REAL_TIME_CLOCK	0x0603		
<b>Category - Control 0x10xx</b>					
■	■	IDENTIFY_DEVICE	0x1000		■
	■	RESET_DEVICE	0x1001		

Table 9: SL ePAR 180 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 10: SL ePAR 180 LED Luminaire RDM Manufacturer 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 11: SL ePAR 180 LED Luminaire RDM Manufacturer Specific PIDs

Get Allowed	Set Allowed	RDM Parameter IDs	Type	Length	Unit	Prefix	Min	Max	Default	Description
Category - Manufacturer Defined PIDs - Range is 0x8000-0xffdf (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
■	■	8AB1H	U8	1	None	None	0	31	0	Preset
■	■	8A92H	U8	1	None	None	0	255	0	Strobe
■	■	8A94H	U8	1	None	None	0	85	0	Duration
■	■	8A40H	U8	1	None	None	1	1	0	Link Mode
■	■	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	0	Backlight Off Time
■	■	8AA2H	U8	1	None	None	0	94	0	Power Up Setup
■	■	8A97H	U8	1	None	None	0	1	0	Fan AUTO / OFF Setup
■	■	8A04H	U8	1	None	None	0	100	100	Dimmer RED
■	■	8A05H	U8	1	None	None	0	100	100	Dimmer GREEN
■	■	8A06H	U8	1	None	None	0	100	100	Dimmer BLUE
■	■	8A07H	U8	1	None	None	0	100	100	Dimmer WHITE
■	■	8AB0H	U8	1	None	None	0	43	0	Colour Filter
■	■	8AC0H	U8	1	None	None	0	255	255	Intensity Timing
■	■	8AC2H	U8	1	None	None	0	255	255	Colour Timing
■	■	8A42H	U8	1	None	None	0	1	0	Incandescent Setup
■	■	8A44H	U8	1	None	None	0	1	0	Calibration ON/OFF Setup

## CLEANING AND CARE

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**WARNING!** All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when the 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.

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### 1. Special Cleaning and Care Instructions

Being a solid-state fixture, and unlike most fixtures, the SL ePAR 180 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 ePAR 180 LED Luminaire requires special care when it comes to cleaning the front lens assembly. Additional care needs to be taken with the plastic components because they are much easier to scratch or damage than the glass lenses used in traditional luminaires.

The following is a list of cleaning materials required to care for your SL ePAR 180 LED Luminaire:

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

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**Note:** \*Reagent grade isopropyl alcohol is good to use on the SL ePAR 180 LED Luminaire plastic optics with anti-reflection coatings.

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If the lens is still dirty after using isopropyl alcohol, for instance if fingerprints 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 ePAR 180 LED Luminaire. These types of cleaners or solvents can permanently damage the optics or housing of the fixture.

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If you have any questions regarding the use or care of your SL ePAR 180 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 the 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.



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**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.

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## 4. Accessories

Only Showline approved accessories should be used with your SL ePAR 180 LED Luminaire. For a list of available accessories from Showline, please see [“Accessories” on page 3](#). For questions regarding accessories, please contact your local Authorized Showline Dealer or Showline office.



## TECHNICAL SPECIFICATIONS

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### 1. Operational Specifications

Source:	Colour RGB+Cool White Array (x19 High Power LEDs)
Beam Angle:	21 Degrees
Light Output:	> 4,400 lumens
Color Temperature:	2700 - 10,000K (user adjustable)
Input Voltage (AC):	100V to 240V (+/- 10%, auto-ranging)
Current (AC):	1.80 Amps (100V) / 0.75Amps (240V)
Power Consumption:	180 Watts (max.)
Frequency:	50/60Hz
Control Protocols:	DMX512 (1990) / DMX512A (RDM) / On-Board Menu
Ambient Temperature:	1 to 40 Degrees C (33 to 104 Degrees F)
Humidity:	35~85RH%
Cooling:	Forced Air
Housing:	Die Cast Aluminium with Powder Coating
Weight:	9.9 lbs(4.5 kg) - Luminaire only (no accessories)
Compliance:	CE Marked (International models)
IP Rating:	IP20

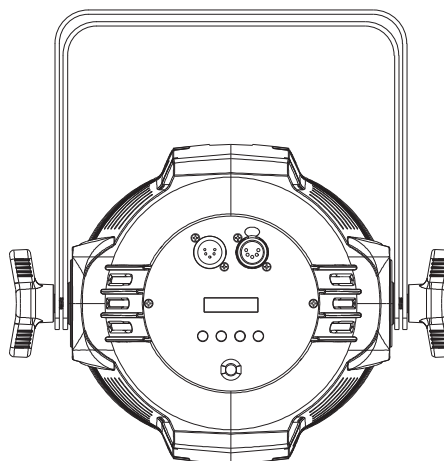
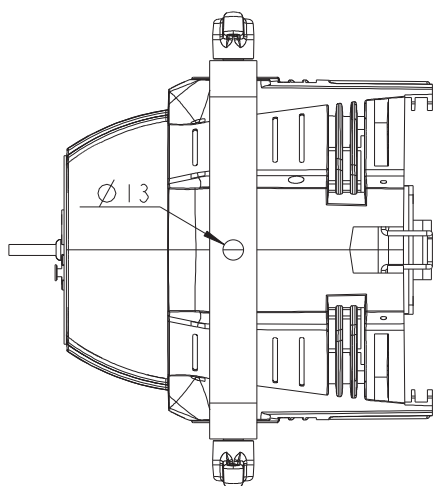
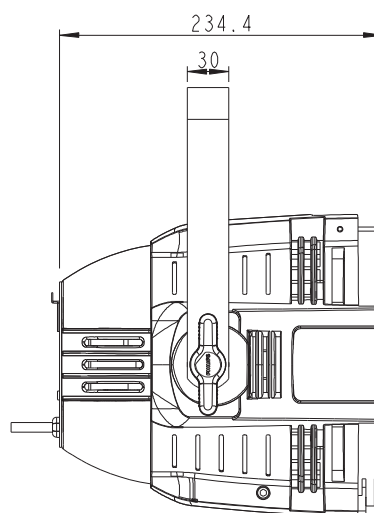
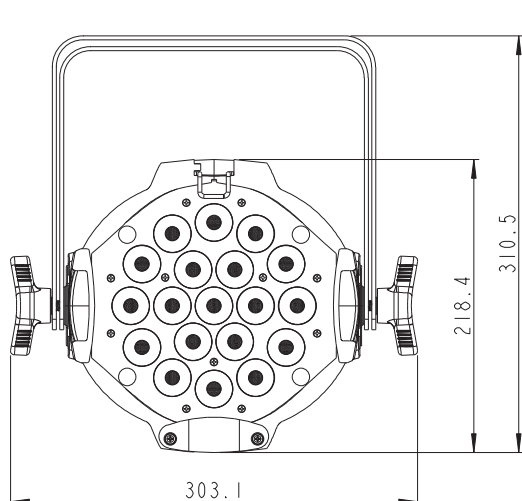
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**Note:** Common model specifications shown. For specific model specifications, features, and accessories, refer to the product specification sheet for more details.

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## 2. Luminaire Dimensions(mm)



## NOTE

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# TECHNICAL SUPPORT

## GLOBAL 24HR TECHNICAL SUPPORT:

Call: +1 214 647 7880

[entertainment.service@signify.com](mailto:entertainment.service@signify.com)

## NORTH AMERICA SUPPORT:

Call: 877-VARI-LITE (877-827-4583)

[entertainment.service@signify.com](mailto:entertainment.service@signify.com)

## EUROPEAN CUSTOMER SERVICE CENTER:

Call: +31 (0) 543 542 531

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