

INSTALLATION & OPERATION MANUAL **Aries** BL Fibersource

DMX Option



BL LIGHTING

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INTRODUCTION

Thank you for purchasing this Aries Illuminator.

Please read this Installation & Operation Manual completely prior to installation and operation of the BL Fibersource illuminator.

Please note that these instructions are guidelines only and in no way supersede any construction or installation standards. Local building and electrical codes should be consulted prior to installation.

WARNING:

There is potential danger of electrical shock when operating electrical equipment, make sure unit is turned off and disconnected from power prior to installation.

Solid State Lighting is sensitive to power fluctuations. Surge Protection is highly recommended for all LED lighting products and should be on a designated circuit to ensure optimal service life.

- Do not attempt to open non-serviceable parts inside the illuminator.
- Installation must be performed by a qualified professional in accordance with related local codes.
- The illuminator should be installed in an accessible, dry, and well ventilated environment. A minimum clearance if 8" (0.2M) is required from surrounding surfaces.
- Aries is kitted with a mounting plate allowing for secure installation to a horizontal or vertical surface.
- Do not modify or alter the illuminator, there are no user-servicable parts inside.
- Never look directly into BL Fibersource through the port aperture, and always position carefully to avoid unexpectedly staring into the BL Fibersource at a distance closer than 10ft (3M).

Aries is a high performance, DMX enabled, RGBW LED illuminator, designed to integrate with BL Fiberoptic, to create vibrant, rich, color changing effects.

The 46W RGBW LED has a 50,000 hour lamp life, and may be ordered with optional Twinkle Wheel and / or RF Remote.

Take charge of your color changing, dimming or twinkling effects with DMX control.

INSTALLATION

Power Supply Requirements

The LED Illuminator is powered from a multifunction, multi-voltage, desktop Power Supply Unit. Remove the 24V Desk Top PSU from its box. This PSU is an IEC 100-240VAC power input device.





CONNECTIONS

There are 3 connections required; the fiber port aperture, the main power supply cable and the DMX control cable. The fiber port aperture should be connected prior to connection to the main power supply.

Connect and secure the fiber optic connector into the collar at the front of the unit and secure using the M5 locking screw.

Never run BL Fibersource with the fiber optic connector out of the collar.

Connect the IEC power cord into the Desk Top PSU and plug the unit into the surge protected main power electrical socket . Switch on power. The LED Indicator will illuminate and the illuminator is ready for use. If no light is produced consult the TROUBLESHOOTING section.

For DMX control connect up the DMX control cables to the XLR sockets on the rear of the Illuminator. The pin out details for the plugs are shown below.

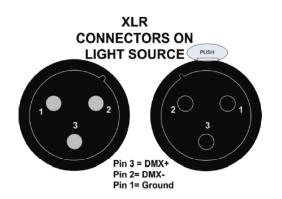
RJ45 CLIP DOWN, PINS UP

1 2 3 4 5 6 7 8

CAT 5 CABLE

TOP VIEW

OF PLUG



RJ45 CONNECTIONS

Pin NO	1	2	3	4	5	6	7	8
Color	White Orange	Orange	White Green	Blue	White Blue	Green	White Brown	Brown
Function	DMX+ (HOT)	DMX- (COLD)	Spare	Spare	Spare	Spare	Ground	Ground
DMX-XLR equivalent	Pin3	Pin2					Pinl	Pin1

NOTE: It is recommended that a 120ohm terminating resistor be connected across DMX+ and DMX- on the last illuminator on the DMX universe or cable run.

OPERATION

Rear Panel Control



ADDRESS "ADDR"	Manually selec
MODE "MODE"	Select either MAS Press ENTER when select
PROGRAM "PROG"	Manually select a ran
TWINKLE WHEEL "TWNK"	Manually control the Twinkle Ef
TIME "TIME"	Select the length of tim

The left hand display shows a rotating line when DMX data is received.

Standalone Master Mode:

In this mode the illuminator (set to Master) can be used in two ways – either as a single independent unit or in a Master/Slave configuration with several illuminators connected together using DMX cables.

The Slave (set to DMX) will mimic whatever standalone programme the Master illuminator is set to. All menu functions are available in Master mode.

NOTE: for master/slave to operate, both master & slave units must be set to address 001 only.

Standalone Remote Mode:

Again in this mode the illuminator (set to Remote) can be used in two ways - either as a single independent illuminator or in a Master/Slave configuration with several illuminators connected together using DMX cables.

The Master color sequences are controlled by a RF remote control and again the Slave will mimic the Master Illuminator.

INSTALLATION & OPERATION MANUAL Aries Fibersoure

BUTTON FUNCTIONS

MENU FUNCTIONS - repeated pressing the MENU button cycles the control through the following modes.

ct the DMX address using up and down buttons.

- Press ENTER when selected
- STER, DMX or REMOTE using up and down buttons.
- ted. In MATER the unit will control another unit set to DMX
- nge of standalone program. Press ENTER when selcted.
- fect motor speed and also switches the motor OFF. Press ENTER when selected.
- me between color changes. Press ENTER when selected.

04



Remote Operation

Aries RF Remote Controller

Power: (2) AAA batteries (not included)

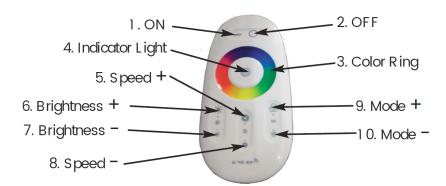
Frequency: 2.4GHz

Range: 98ft (30m) *measured in free space, may be attenuated by obstructions and / or other RF devices

Batteries – With The LED Illuminator powered up as described above, remove the rear cover on Remote Controller. Taking care not to touch any of the front cover buttons, insert the batteries. If you touch the remote control buttons when inserting the batteries it WILL effect the operation of your Remote Control. If you do accidentally touch any of the buttons, remove the batteries and start again.Once the batteries are inserted do not use the Remote Control for 3 seconds.

DO NOT TOUCH THE BUTTONS WHILST INSERTING BATTERIES

Test remote control as detailed on the following page. The Remote Controller is "matched" to the Illuminator at the factory. If the Remote Controller is not matched or an additional or replacement Remote Controller is required carry out the "Matching Remote to Illuminator" instructions in the following text. If a Remote Controller is to be removed from control of a Illuminator carry out the "Unmatching Remote to Illuminator" instructions in the following text.



NO.	Description	Function
1	Button	Power ON
2	Button	Power OFF
3	Color Ring	Touch control all colors (White not available)
4	Indicator	Indicates Controller active when buttons pressed
5	Button	Increase color cycle speed
6	Button	Increase Brightness
7	Button	Decrease Brightness
8	Button	Decrease Color cycle speed
9	Button	Mode + Step up through Color cycle programs
10	Button	Mode - Step down through Color cycle programs

Remote Controller Operation

Matching Remote to Illuminator – Remove the power plug from the rear of the Illuminator, then replace and once the Indicator Light (4.) lights, touch button 5 within 3 seconds, the Illuminator will "blink" twice slowly indicating that the Remote Controller is matched to the Illuminator.

Once the remote is matched, follow the procedure on page 10 to put the illuminator into remote programme mode. The illuminator should then respond to remote commands.

Unmatching Remote from Illuminator – Remove the power plug from the rear of the Illuminator, then replace and once the Indicator Light (4.) lights, touch and hold button 5 within 3 seconds and the Illuminator will "blink" 9 times indicating that the Remote Controller is unmatched from the Illuminator.



OPERATION

Remote Controller Modes and Functions

NO.	Mode	Brightness	Speed	Comment
1	Static White	Adjustable	Not Adjustable	To revert to 1 (Static White) at anytime touch Color Ring then Mode+
2	White and Colors mixed	Adjustable	Not Adjustable	Color Ring control – brightness adjust Color only, not White. To revert to 2 (Color Ring) at any time touch color ring
3	All Colors fade change	Adjustable	Adjustable	No White
4	RGBW fade change	Adjustable	Adjustable	Red, Green, Blue & White
5	RGBW snap change	Adjustable	Adjustable	Red, Green, Blue & White
6	7 Colors snap change	Adjustable	Adjustable	White and Colors mixed
7	2 Colors snap change	Adjustable	Adjustable	Red & White
8	2 Colors snap change	Adjustable	Adjustable	Blue & White
9	2 Colors snap change	Adjustable	Adjustable	Green & White
10	1 Color Flash	Adjustable	Adjustable	Red
11	1 Color Flash	Adjustable	Adjustable	Blue
12	1 Color Flash	Adjustable	Adjustable	Green
13	1 Color Flash	Adjustable	Adjustable	White
14	All Colors snap & fade	Adjustable	Adjustable	Random

Mode Buttons – This is not a loop, i.e. touching the Mode+ button will not eventually bring you back to Mode 1. To revert to Mode 1, either touch Mode – button repeatedly to step back up through the Mode numbers, or touch Color Ring then Mode+

Color Ring – The Color Ring can be used to select individual colors by touching the ring and sliding your finger around the ring,

Brightness - brightness can be increased or reduced in any mode using buttons 6 & 7

Cycle Speed – speed of color cycling in Modes 3 to 14 can be adjusted using buttons 5 & 8

Remote Range Walk Test

Once the Illuminator is fully installed carry out a complete range walk test and record the range in the table below. This information is essential for maintenance purposes to determine if the range/ sensitivity is reducing and also to record dead areas within the Remote Controller's range due to RF obstructions and/or RF interference.

NOTE: Where an Illuminator has more than one Remote Control, reduction in operating range may be experienced when both (or multiple) Remote Controls are used simultaneously.

Description	Date	Max Range
Controller 1	Button	
Controller 2	Button	
Controller 3	Color Ring	
Dead Areas	Indicator	

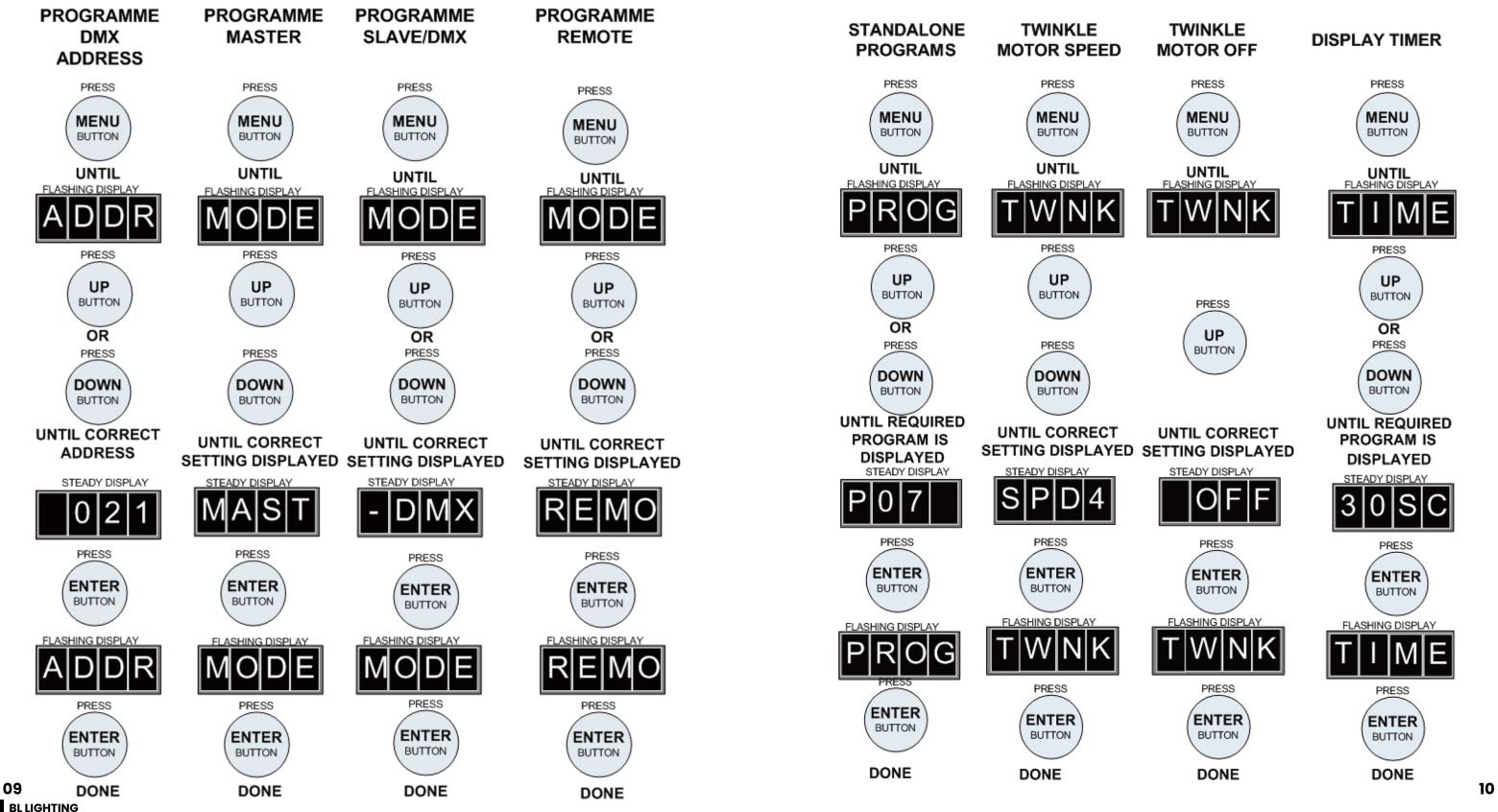
DMX Mode

In this mode the Illuminator (set to DMX) can be controlled either by another **Aries** in Master mode or by a DMX controller.



PROGRAMMING

PROGRAMMING



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STANDALONE OPERATION

Prog.	Founction	Effect
P01	Display Color 1	White
P02	Display Color 2	Red
P03	Display Color 3	Green
P04	Display Color 4	Blue
P05	Display Color 5	Yellow
P06	Display Color 6	Cyan
P07	Display Color 7	Magenta
P08	Snap color change between colors 1,2,3,4,5,6,7	Display color for adjustable time (display timer) and then snap to next color
P09	Snap color change between colors 1,2,3,4,5,6,7	Display color for adjustable time (display timer) and then snap to next color
P10	Snap color change between colors 1,2,3,4	Display color for adjustable time (display timer) and then snap to next color
P11	Snap color change between colors 1 ,2,3,4,5,6,7	Display color for adjustable time (display timer) and then snap to next color
P12	Snap color change between colors 2,3,4,5,6,7	Display color for adjustable time (display timer) and then snap to next color
P13	Snap color change between colors 1,2,3,4	Display color for adjustable time (display timer) and then snap to next color

In standalone operation – the (optional) twinkle wheel speed can be set using the menu/-mode controls. The twinkle wheel has two type options (programmed in the factory)

1. Un-segmented random holed wheel rotating continuously in one direction. When stopped the wheel will still obscure the fiber optic common end, lighting effect will remain variable.

2. Segmented random holed wheel rotating in twinkle mode either side of a clear segment. When stopped the wheel segment will align with the fiber optic common end ensuring maximum light output / 'full on' lighting effect.

DMX CHANNEL OPERATION

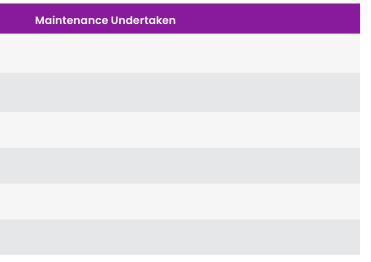
Prog.	Function	Values
1	Red	0-5 off/6-255 min to max
2	Green	0-5 off/6-255 min to max
3	Blue	0-5 off/6-255 min to max
4	White	0-5 off/6-255 min to max
5	Twinkle wheel	0-5 off/6-255 min to max
6	LED and fan	0-250 on, 251-255 off

NOTE: the fan is controlled by a temperature circuit on the LED driver. **PCB –** switching the fan ON and OFF to optimise LED Junction temperature.

MAINTENANCE

Please Note that a record of all maintenance MUST be kept in the table below, indicating what maintenance was undertaken and when. This MUST be dated for warranty purposes.

Date	





TROUBLESHOOTING

Illuminator dead - LED indicator on desk top PSU not illuminated Main power supply plug or connector Check supply and reinstate Indicator on desk top PSU not illuminated FSU faulty Replace PSU Interplace PSU Illuminator dead - LED indicator on desk top PSU illuminator dead - LED ILloces DC plug Check PSU output - Replace PSU Illuminator dead - LED indicator on desk top PSU illuminator Illuminator Faulty Replace Illuminator Illuminator no light output - LED, but LCD disploy on illuminator is illuminated If program Mode is set to "REMO", luminator may have been switched o using RF remote control Switch array on using RF remote control Remote batteries failing Replace Illuminator Switch array on using RF remote Control RF remote control lever faulty Replace Bluminator Switch array on using RF remote Control RF remote control needs resetting Remove batteries failing Remove and reinsert batteries as per User Guide RF remote control needs resetting Remove and reinsert batteries as per User Guide Remove and reinsert batteries as per User Guide Illuminator not in Remote batteries failed Replace Illuminator Replace Illuminator RF remote control needs resetting Remove and reinsert batteries as per User Guide Remove and reinsert batteries as per User Guide	Problem	Probable Causes	Remedy
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Not responding to DMX - no rotating symbol on LCD display DMX address incorrectly set Change address on illuminator or DMX controller Not responding to display No DMX signal from controller Check DMX controller for correct setting Wiring fault on DMX cables/connections Check cable connections and repair as necessar Not fully responding to DMX - some but not all colors controllable, no rotating symbol on LCD display Illuminator address out of range - not 5 available channels on DMX controller Change address on illuminator or DMX controller to make 6 channels available Not responding to DMX - no light output, rotating symbol on LCD display Incorrect address set on illuminator or controller (Channel 6 value high (251-255) switching o the array LED driver failed Check TMXNK" mode setting Unit in Master mode but Twinkle wheel not moving Internal component/motor failure Carefully clean the LED lens with a dry cloth Clean fiber common end Poor light output on fiber Ciber port connector not a lugged in correctly and secured with Carefully clean the LED lens with a dry cloth Clean fiber common end		Illuminator receiver failed	Replace Illuminator
Not responding to DMX - no rotating symbol on LCD display No DMX signal from controller Check DMX controller for correct setting Wiring fault on DMX cables/connections Check cable connections and repair as necessal DMX - some but not all colors controllable, no rotating symbol on LCD display Illuminator address out of range - not 5 available channels on DMX controller Change address on illuminator or DMX controller to make 6 channels available Not responding to display Incorrect address set on illuminator or controller Change address on illuminator or DMX controller to make 6 channels available Not responding to DMX - no light output, rotating symbol on LCD display Incorrect address set on illuminator or controller Check DMX controller channel 6 value to <251		Illuminator not in "DMX"mode	Check mode programming and set to "DMX"
No rotating symbol on LCD display No DMX signal from controller Check DMX controller for correct setting Wiring fault on DMX cables/connections Check cable connections and repair as necessar Not fully responding to DMX - some but not all colors controllable, no rotating symbol on LCD display Illuminator address out of range - not 5 available channels on DMX controller Change address on illuminator or DMX controller to make 6 channels available Not responding to DMX - no light output, rotating symbol on LCD display Incorrect address set on illuminator or controller Check DMX controller channel 6 value to <251		DMX address incorrectly set	Change address on illuminator or DMX controller
Wiring fault on DMX cables/connectionsCheck cable connections and repair as necessarNot fully responding to DMX - some but not all colors controllable, no rotating symbol on LCD displayIlluminator address out of range - not 5 available channels on DMX controllerChange address on illuminator or DMX controller to make 6 channels available channels availableNot responding to DMX - no light output, rotating symbol on LCD displayIncorrect address set on illuminator or controllerCheck DMX controller channel values channel for address set in DMX channeNot responding to DMX - no light output, rotating symbol on LCD displayIncorrect address set on illuminator or controllerCheck DMX controller channel values channel 6 value high (251-255) switching o the array LED driver failedReduce channel 6 value to <251 Change illuminatorUnit in Master mode but Twinkle wheel not movingInternal component/motor failureCarefully clean the LED lens with a dry cloth Clean fiber common endPoor light output on fiber Poor light output on fiberUnit needs cleaningCarefully clean the LED lens with a dry cloth Ensure plugged in correctly and secured with	no rotating symbol on LCD	No DMX signal from controller	Check DMX controller for correct setting
Not fully responding to DMX - some but not all colors controllable, no rotating symbol on LCD displayIlluminator address out of range - not 5 available channels on DMX controllerChange address on illuminator or DMX controller to make 6 channels availableNot responding to DMX - no light output, rotating symbol on LCD displayIncorrect address set on illuminator or controllerCheck addressesNot responding to DMX - no light output, rotating symbol on LCD displayIncorrect address set on illuminator or controllerCheck DMX controller channel valuesNot responding to DMX - no light output, rotating symbol on LCD displayIncorrect address set on illuminator or controllerCheck DMX controller channel valuesUnit in Master mode but Twinkle wheel not movingTwinkle Motor switched offCheck "TWNK" mode settingPoor light output on fiberUnit needs cleaningCarefully clean the LED lens with a dry cloth clean fiber comment endPoor light output on fiberEiber port compactor not plugged in correctly and secured with	dispidy	Wiring fault on DMX cables/connections	Check cable connections and repair as necessary
DMX - some but not all colors controllable, no rotating symbol on LCD displayIlluminator address out of range - not 5 available channels on DMX controllerChange address on illuminator or DMX controller to make 6 channels availableNot responding to DMX - no light output, rotating symbol on LCD displayIncorrect address set on illuminator or controllerCheck addressesNot responding to DMX - no light output, rotating symbol on LCD displayIncorrect address set on illuminator or controllerCheck DMX controller channel valuesNo values set in DMX channeCheck DMX controller channel valuesChannel 6 value high (251-255) switching o the arrayReduce channel 6 value to <251		DMX driver failure	Change Illuminator
Not responding to DMX – No values set in DMX channe Check DMX controller channel values no light output, rotating symbol on LCD display Channel 6 value high (251-255) switching o the array Reduce channel 6 value to <251	DMX – some but not all colors controllable, no rotating symbol on LCD		Change address on illuminator or DMX controller to make 6 channels available
No values set in DMX channe Check DMX controller channel values no light output, rotating symbol on LCD display Channel 6 value high (251-255) switching o the array LED driver failed Reduce channel 6 value to <251		Incorrect address set on illuminator or controller	Check addresses
Symbol on LCD display Channel 6 value high (251-255) switching o the array Reduce channel 6 value to <251 Symbol on LCD display LED driver failed Change illuminator Unit in Master mode but Twinkle Motor switched off Check "TWNK" mode setting Twinkle wheel not moving Internal component/motor failure Replace Illuminator Poor light output on fiber Unit needs cleaning Carefully clean the LED lens with a dry cloth Clean fiber common end Eiber port connector not plugged in correctly Ensure plugged in correctly and secured with		No values set in DMX channe	Check DMX controller channel values
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Twinkle wheel not moving Internal component/motor failure Replace Illuminator Poor light output on fiber Unit needs cleaning Carefully clean the LED lens with a dry cloth Clean fiber common end Eiber port connector not plugged in correctly Ensure plugged in correctly and secured with		LED driver failed	Change illuminator
Poor light output on fiber Eiber port connector not plugged in correctly Eiber port connector not plugged in corre	Unit in Master mode but	Twinkle Motor switched off	Check "TWNK" mode setting
Poor light output on fiber Eiber port connector not plugged in correctly Eiber port connector not plugged in correctly	Twinkle wheel not moving	Internal component/motor failure	Replace Illuminator
Eiber port connector not plugged in correctly Ensure plugged in correctly and secured with	Poor light output on fiber	Unit needs cleaning	Clean fiber common end
	, sor light output of liber	Fiber port connector not plugged in correctly	

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Solid State Lighting is sensitive to power fluctuations Surge protection is highly recommended for all LED lighting products and should be on a designated circuit to protect against premature failure Lack of surge protection may void your warranty

Specifications subject to change without notice. Please refer to our website at bllighting.com for current technical data.