NULB-24LED
24" Ultra-Low Profile Linear LED Lightbar
Source: 8.1W LED

ⓝNORALIGHTING®

Type	
Project	
Catalog No.	
Lamp/Wattage	

DIMENSIONS

ACTUAL SIZE

1/2"

23-5/8"

3/4"

Length: 23-5/8"
Width: 3/4"
Height: 1/2"
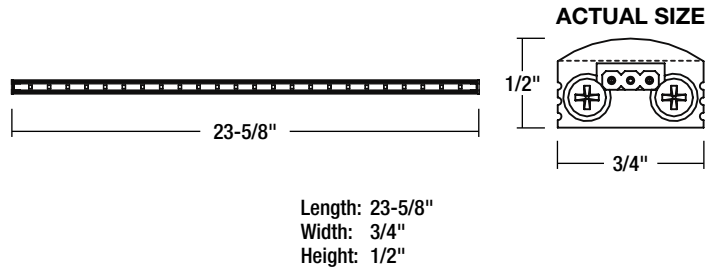
PRODUCT DESCRIPTION
Nora Lighting's low-profile, Title 24 compliant fixtures provide excellent and even illumination on all surfaces. At only 4.3 watts per foot, Lightbar is one of the most energy efficient products in the market. Combined with an ultra low-profile housing, five fixture lengths, an assortment of interconnector cables and mounting brackets that install at a variety of angles, Nora's LightBar offers an unprecedented level of contractor friendly installations. LED technology eliminates forward heat from the fixture, also no UV or infrared rays to harm artwork or heat sensitive foods.

FEATURES
- Exceeds California Title 24 high efficacy requirements
- Available in 3000K & 4200K CCT
- Available in 5 different lengths; 6", 12", 24", 36" & 48"
- Easy installation with adjustable aiming mounting brackets
- Flush end connectors
- Dimmable
- Lightbars and Class II Drivers are rated for -20ºC operation
- 30,000 hours of rated lamp life

Included with every Lightbar:
(1) Lightbar, (2) Flat Mounting Clips [NAL-201], (2) Angled Mounting Clips [NAL-245], and (1) End to End Connector [NAL-200].

Housing
Solid aluminum extrusion with flush mounted end caps

Finishes
Bronze (anodized) and Natural Aluminum.

ELECTRICAL
Voltage: 24V DC
Power Consumption: 8.1 Watts
Lumens: 447lm @ 3000K / 441lm @ 4200K
Color Rendering Index: 48.1 CRI @ 3000K / 56.4 @ 4200K
Light Source: 24 LEDs
Operating Temperature: -4ºF to 140ºF (-20ºC to 60ºC)
Life Expectancy: 30,000 Hours
Maximum Run Length: 24' (100W Driver) / 16' (60W Driver) / 8' (30W Driver)
Color Temperature: Warm White (3000K), Cool White (4200K)

Labels and Warranty
cETLus Listed for Dry Location
Title 24 Compliant
2 Year Warranty

24" Ultra-Low Profile Linear LED Lightbar

NULB-24LED30A: 24" LED Lightbar, 3000K, Aluminum Finish
NULB-24LED30BZ: 24" LED Lightbar, 3000K, Bronze Finish
NULB-24LED42A: 24" LED Lightbar, 4200K, Aluminum Finish
NULB-24LED42BZ: 24" LED Lightbar, 4200K, Bronze Finish

ACCESSORIES

INTERCONNECTORS

Item Number	Description
NAL-200	End to End Connector (one is included with each Lightbar)
NAL-202	2" Interconnection Cable
NAL-206	6" Interconnection Cable
NAL-218	18" Interconnection Cable
NAL-238	38" Interconnection Cable
NAL-258	58" Interconnection Cable

MOUNTING CLIPS

NAL-201	Flat Mounting Clip, Chrome - Set of Two (two are included w/ each Lightbar)
NAL-201BZ	Flat Mounting Clip, Bronze - Set of Two
NAL-225BZ	Bar to Bar Joiner, Bronze
NAL-225C	Bar to Bar Joiner, Chrome
NAL-245	Angled Mounting Clip, Chrome - Set of Two (two are included w/ ea. Lightbar)
NAL-245BZ	Angled Mounting Clip, Bronze - Set of Two
NAL-280BZ	Adjustable Mounting Clip, Bronze - Set of Two
NAL-280C	Adjustable Mounting Clip, Chrome - Set of Two

POWER FEED INTERCONNECTORS

NAL-207	90º - 18" Power Line Interconnector
NAL-207/72	90º - 72" Power Line Interconnector
NAL-208	20" Power Line Interconnector
NAL-208/72	72" Power Line Interconnector
NAL-212	12" Power Line Interconnector with Switch

OTHERS

NAL-220	Mini Coupler
NAL-221	Mini Power Feed Splitter

LED DRIVERS

HARDWIRE DRIVERS

NATL-530HW	24V 30W Class II Hardwired Electronic LED Driver
NATL-560HW	24V 60W Class II Hardwired Electronic LED Driver
NATL-5100HW	24V 100W Class II Hardwired Electronic LED Driver
NMT-60/24C2HP	24V 60W Dimmable Class II Remote Hardwire Magnetic LED Driver
NMT-96/24C2HP	24V 96W Dimmable Class II Remote Hardwire Magnetic LED Driver
NMT-48/24C2D1	120V/24V 48W Dimmable Class II Remote Hardwire Magnetic Driver w/ Regulator
NMT-48/24C2D2	277V/24V 48W Dimmable Class II Remote Hardwire Magnetic Driver w/ Regulator
NMT-96/24C2D1	120V/24V 96W Dimmable Class II Remote Hardwire Magnetic Driver w/ Regulator
NMT-96/24C2D2	277V/24V 96W Dimmable Class II Remote Hardwire Magnetic Driver w/ Regulator
NMT-303/24C2D1	120V/24V 300W Dimmable Class II Remote Hardwire Magnetic Driver w/Regulator
NMT-303/24C2D2	277V/24V 300W Dimmable Class II Remote Hardwire Magnetic Driver w/Regulator

PLUG-IN DRIVERS

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NATL-524	24V 24W Direct Plug-In LED Driver
NATL-545	24V 45W Direct Plug-In LED Driver
NATL-596	24V 96W Class II Plug-In Electronic LED Driver

DRIVER ACCESSORIES

NAL-250	Dimmer (Not for use with NMT Series)
NALTL-10	Replacement 10' Power Line Connector for NMT Series & NATL-5100HW
NALTL-30	Replacement 30' Power Line Connector for NMT Series & NATL-5100HW
NATL-415	Low Voltage Splice Box
NRA-125/6	6" Extension Cord for NATL-530HW & NATL-560HW
NRA-125/12	12" Extension Cord for NATL-530HW & NATL-560HW
NRA-125/18	18" Extension Cord for NATL-530HW & NATL-560HW
NRA-125/72	72" Extension Cord for NATL-530HW & NATL-560HW
NRA-6035W/6	6' Cord and Plug for NATL-530HW & NATL-560HW
NRA-6035W/10	10' Cord and Plug for NATL-530HW & NATL-560HW
NUSP-JBox	Junction Box required for hardwiring NATL-530HW & NATL-560HW

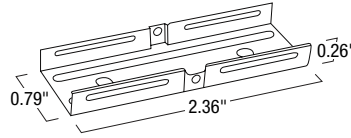# LED Lightbar Interconnectors & Mounting Clips

End to End Connector
Miniature connector for seamless end-to-end transitions. One is included with every Lightbar.
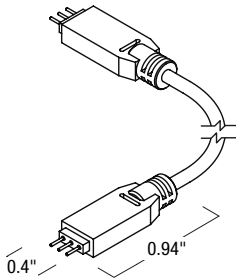
0.44"

0.13"

0.31"
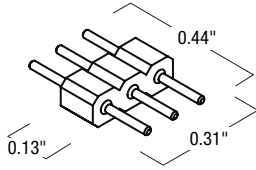
NAL-200: End to End Connector

Bar to Bar Joiner
Can be used to provide rigidty when joining two bars together. Has mounting holes.

0.26"

0.79"

2.36"

NAL-225BZ: Bar to Bar Joiner, Bronze
NAL-225C: Bar to Bar Joiner, Chrome

Interconnection Cable
The interconnection cables allow for linking of any 2 Lightbars in any direction.

0.4"

0.94"

NAL-202: 2" Interconnection Cable
NAL-206: 6" Interconnection Cable
NAL-218: 18" Interconnection Cable
NAL-239: 38" Interconnection Cable
NAL-258: 58" Interconnection Cable

Angled Mounting Clip (Set of 2)
Align clip into the difference grooves in the extruded body of the Lightbar. (2) NAL-245 clips are included with every 6", 12" or 24" Lightbar.

0.5"

0.63"

0.69"
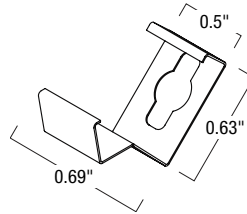
NAL-245: Angled Mounting Clip, Chrome - Set of 2
NAL-245BZ: Angled Mounting Clip, Bronze - Set of 2

Flat Mounting Clip (Set of 2)
Adjustable aiming of 0º, 10º and 23º is available with the Flat Mounting Clip. (2) NAL-201 clips are included with every 6", 12" or 24" Lightbar.

0.31"

0.44"

0.75"
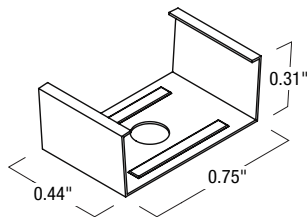
NAL-201: Flat Mounting Clip, Chrome - Set of 2
NAL-201BZ: Flat Mounting Clip, Bronze - Set of 2

Adjustable Mounting Clip (Set of 2)
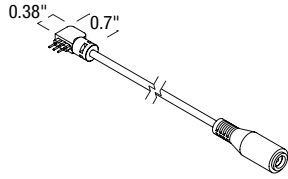Easy flexible aiming. Extends 1" with bar installed at 90º.

1"

0.65"

1.26"
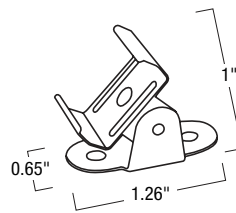
NAL-280BZ: Adjustable Mounting Clip, Bronze - Set of 2
NAL-280C: Adjustable Mounting Clip, Chrome - Set of 2

LED Lightbar Power Feed Interconnectors and Others
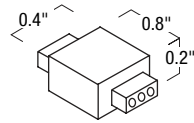
90º Power Line Interconnector
Allows for easy installation in a limited space application. Connects Lightbar run directly to driver.

NAL-207: 90º - 18" Power Line Interconnector
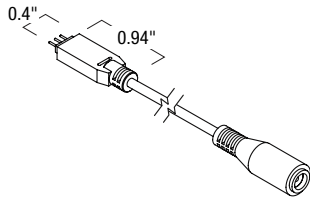**NAL-207/72:** 90º - 72" Power Line Interconnector

Mini Coupler
Extendes interconnection cables and power line interconnectors.
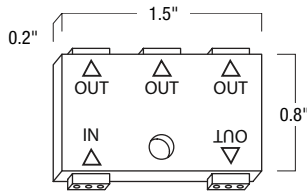
NAL-220: Mini Coupler

Power Line Interconnector
To connect Lightbar run directly to LED Driver.

NAL-208: 20" Power Line Interconnector
NAL-208/72: 72" Power Line Interconnector

Mini Power Feed Splitter
Allows one driver to be split into 4 separate, simultaneous runs. Requires one interconnection cable for each Lightbar.

NAL-221: Mini Power Feed Splitter

Power Line Interconnector with Switch
Allows for individual switching on any Lightbar run. Connects Lightbar run directly to LED Driver.
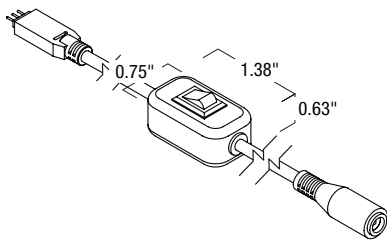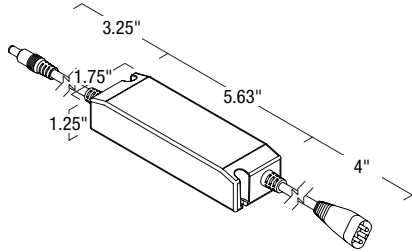
NAL-212: Power Line Interconnector with Switch

LED Lightbar Drivers

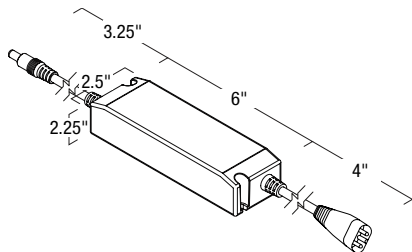### 30W 24V Class II Hardwire Electronic LED Driver
Allows hardwiring Lightbar run by using NUSP-JBox. Can also be converted into direct plug-in driver by using NRA-6035. Requires power line interconnection cable unless used with NAL-250. Non-Dimmable.

NATL-530HW: 24V 30W Class II Hardwire Driver

60W 24V Class II Hardwire Electronic LED Driver
Allows hardwiring Lightbar run by using NUSP-JBox. Can also be converted into direct plug-in driver by using NRA-6035. Requires power line interconnection cable unless used with NAL-250. Non-Dimmable.

NATL-560HW: 24V 60W Class II Hardwire Driver

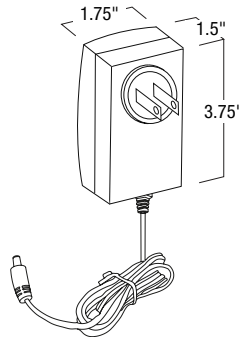### 100W 24V Class II Hardwire Electronic LED Driver
Allows hardwiring Lightbar run. Includes 10' power line connector (NALTL-10). Requires power line interconnection cable unless used with NAL-250. Non-Dimmable.
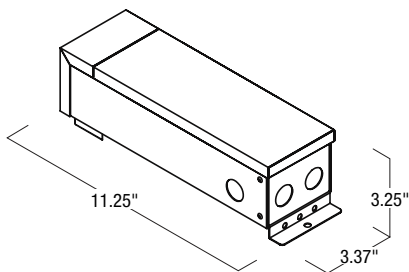
NATL-5100HW: 24V 100W C2 Hardwire Driver

24V Direct Plug-In LED Drivers
Allows direct connection a wall outlet with 6' cord and plug. Requires power line interconnection cable unless used with NAL-250. Non-Dimmable.
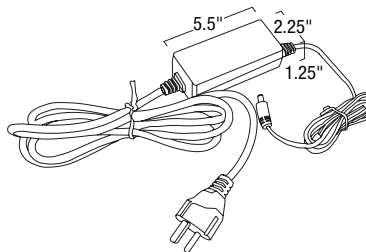

NATL-524: 24V 24W Direct Plug-In LED Driver
NATL-545: 24V 45W Direct Plug-In LED Driver

96W 24V Direct Plug-In LED Driver
Allows direct connection a wall outlet with 5' cord and plug and 44" power line connector. Requires power line interconnection cable unless used with NAL-250. Non-Dimmable.

NATL-596: 24V 96W Class II Dimmable Driver

24V Class II Dimmable Hardwire LED Drivers
Allows hardwiring Lightbar run and dimming with Magnetic Low Voltage Dimmer. Includes 10' power line connector (NALTL-10). Requires power line interconnection cable, cannot be used with NAL-250. Manual reset thermal circuit - secondary side. Can be mounted 30' from start of fun.
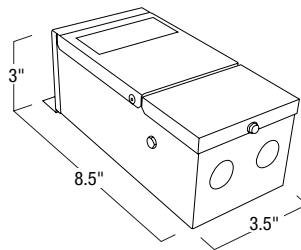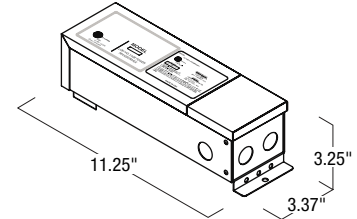

NMT-60/24C2HP: 24V 60W Class II Dimmable Driver
NMT-96/24C2HP: 24V 96W Class II Dimmable Driver

24V Class II Dimmable Hardwire LED Driver
Allows hardwiring Lightbar run and dimming with Magnetic Low Voltage Dimmer. Includes 10' power line connector (NALTL-10). Requires power line interconnection cable, cannot be used with NAL-250. Manual reset thermal circuit - secondary side. Integral regulator for constant current and voltage. Can be mounted 30' from start of fun.
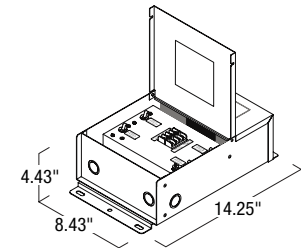

NMT-48/24C2D1: 120V/24V 48W C2 Dimm. Driver
NMT-48/24C2D2: 277V/24V 48W C2 Dimm. Driver
NMT-96/24C2D1: 120V/24V 96W C2 Dimm. Driver
NMT-96/24C2D2: 277V/24V 96W C2 Dimm. Driver

300W 24V Class II Dimmable Hardwire LED Driver
Includes three 100W breakers, which allows hardwiring three Lightbar runs and dimming with Magnetic Low Voltage Dimmer. Includes (3) 10' power line connector (NALTL-10). Requires power line interconnection cable, cannot be used with NAL-250. Manual reset thermal circuit - secondary side. Integral regulator for constant current and voltage. Can be mounted 30' from start of fun.


NMT-303/24C2D1: 120V/24V 300W C2 Dimm. Driver
NMT-303/24C2D2: 277V/24V 300W C2 Dimm. Driver

# LED Lightbar Drivers Accessories

Dimmer
Capable of dimming two separate Lightbar runs simultaneously. 3 Modes: Dimming Mode, Auto-fading Mode, and Flashing Mode. Includes: (1) Dimmer, (2) 6" Interconnection Cables [NAL-206], (2) End to End Connectors [NAL-201], and 6 mounting screws. Not compatible with NMT Series
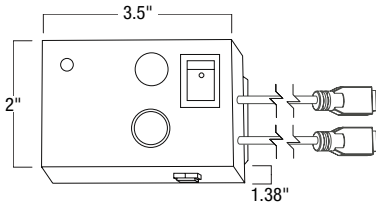
NAL-250: Dimmer

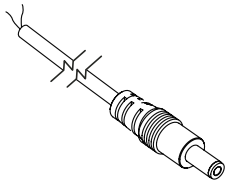## Extension Cord for NATL-530HW or NATL-560HW
Used to extend length between NUSP-JBox and NATL-530HW or NATL-560HW. Can be joined together to create custom lengths.
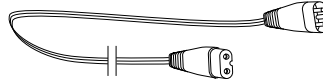
NRA-125/6: 6" Flexible Extension Cord
NRA-125/12: 12" Flexible Extension Cord
NRA-125/18: 18" Flexible Extension Cord
NRA-125/72: 72" Flexible Extension Cord
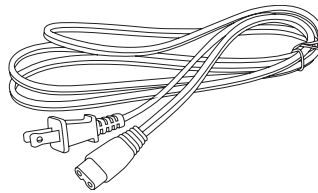
Replacement Power Line Connector
For use with NMT Series and NATL-5100HW. Replaces included 10' lead wire, to allow for 30' or less length between Lightbar run and LED Driver.

NALTL-10: 10' 24V Power Line Connector
NALTL-30: 30' 24V Power Line Connector
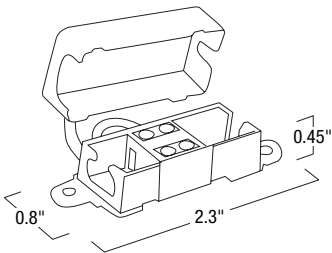
Cord and Plug for NATL-530HW or NATL-560HW
Used to convert NATL-530HW or NATL-560HW into a direct plug-in driver.

NRA-6035W/6: 6' Cord and Plug
NRA-6035W/10: 10' Cord and Plug
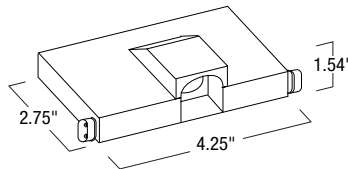
Low Voltage Splice Box
Use to join Romex® low voltage lead to power line connector.

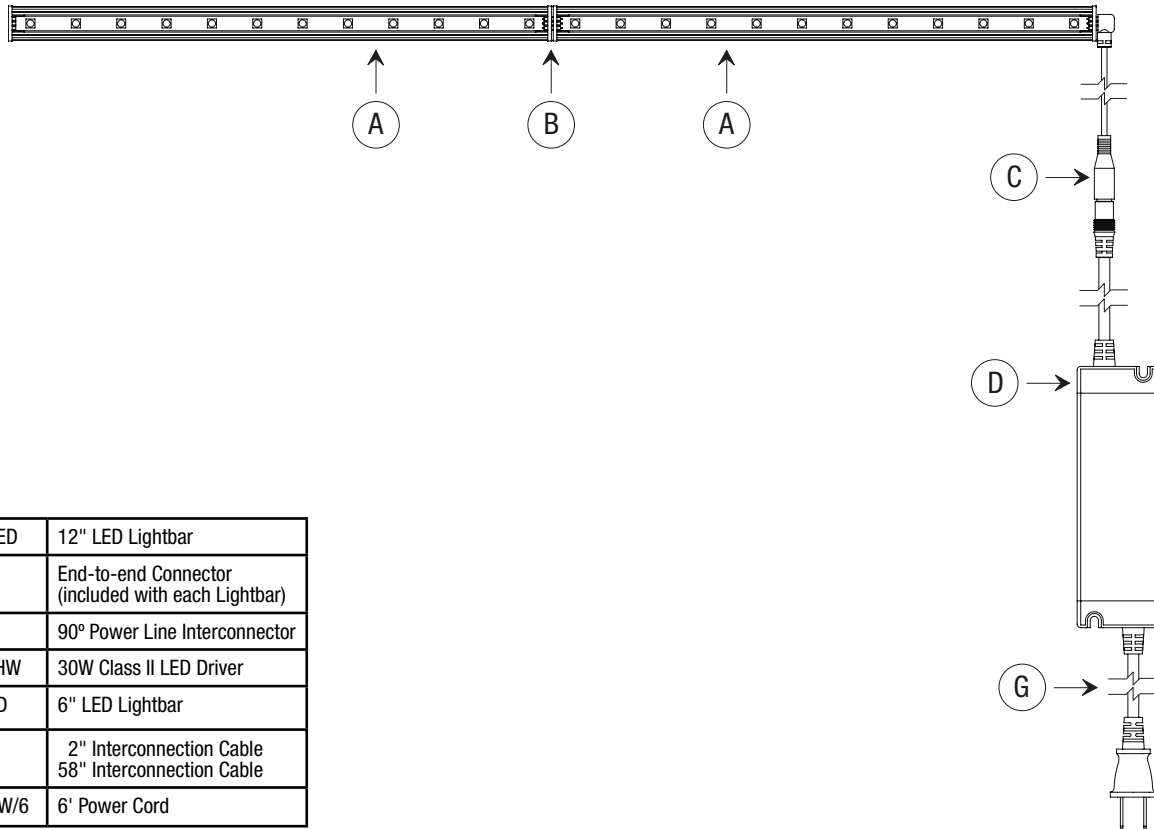**NATL-415:** Low Voltage Splice Box

Junction Box for Hardwiring
Required for hardwiring NATL-530HW or NATL-560HW. Can be used to feed to separate runs. Accepts Romex®.

NUSP-JBox: Junction Box for Hardwiring

Suggested Layouts

A.	NULB-12LED	12" LED Lightbar
B.	NAL-200	End-to-end Connector (included with each Lightbar)
C.	NAL-207	90º Power Line Interconnector
D.	NATL-530HW	30W Class II LED Driver
E.	NULB-6LED	6" LED Lightbar
F.	NAL-202 NAL-258	2" Interconnection Cable 58" Interconnection Cable
G	NRA-6035W/6	6' Power Cord

NORALIGHTING®