

ILLUMINATING THE FUTURE...SINCE 1989

Туре	
Project	
Catalog No.	
Lamp/Wattage	

Lightbar 90+ NULB Series 24V Ultra-Low profile Linear LED Source: 4 Watts / 220 Lumen per foot

PRODUCT DESCRIPTION

Nora Lighting's low-profile, Title 24 compliant fixtures provide excellent and even illumination on all surfaces. At only 4 watts per foot, Lightbar 90+ is one of the most energy efficient products in the market producing 90+ CRI. 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. Lighting designers and specifiers will appreciate the true color rendition found only with 90+ CRI output.

FEATURES

- 4 Watts / 220 Lumens per ft
- 90+ CRI (3000K avg. 95 CRI)
- 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 -20°C 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],
- (1) End to End Connector [NAL-200]. (36" and 48" bars include 3 each of the mounting clips)

Housing

Solid aluminum extrusion with flush mounted end caps

Bronze (anodized) and Natural Aluminum.

ELECTRICAL

Voltage: 24V DC

Power Consumption: avg 4.0 Watts per foot

Lumens: Avg. 220 Lumens per ft

Color Rendering Index: 90+ (3000K avg 95)

Light Source: Nichia LEDs

Operating Temperature: -4°F to 140°F (-20°C to 60°C)

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

cULus Listed for Dry Location Title 24 Compliant 2 Year Warranty

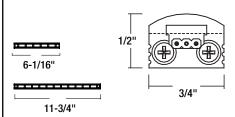








DIMENSIONS



23-5/8"

35-5/8" 47-5/8

A: Length: 6"= 6-1/16", 12" = 11-3/4", 24" = 23-5/8", 36" = 35-5/8", 48" = 47-5/8"

B: Width: 3/4" C: Height: 1/2"

Ultra-Low Profile Linear LED Lightbar 90+

	Item No.	Length (Nominal Inches)	Source	Color Temp	Finish
	NULB	6	LED	930=3000K	A=Natural Aluminum
ĺ		12		942=4200K	BZ=Bronze
		24			
		36			
l		48			

EXAMPLE: NUL B-24LED930A



ILLUMINATING THE FUTURE...SINCE 1989 Lamp/Wattage

Туре	
Project	
Catalog No.	

ACCESSORIES INTERCONNECTORS		LED DRIVERS		
		HARDWIRE DRIVERS		
Item Number	Description	Item Number	Description	
NAL-200	End to End Connector (one is included with each Lightbar)	NATL-530HW	24V 30W Class II Hardwired Electronic LED Driver	
NAL-202	2" Interconnection Cable	NATL-560HW	24V 60W Class II Hardwired Electronic LED Driver	
NAL-206	6" Interconnection Cable	NATL-5060HW	24V 100W Class II Hardwired Electronic LED Driver	
NAL-218	18" Interconnection Cable	NATL-5100HW	24V 100W Class II Hardwired Electronic LED Driver	
NAL-238	38" Interconnection Cable	NMT-303/24C2D1	120V/24V 300W Dimmable Class II Remote Hardwire Magnetic Driver w/R	
NAL-258	58" Interconnection Cable	NMTD-60/24D	Dimmable Class II Remote Hardware Magnetic Driver (60W)	
	MOUNTING CLIPS	NMTD-96/24D Dimmable Class II Remote Hardware Magnetic Driver (96W)		
NAL-201	Flat Mounting Clip, Chrome - Set of Two (two are included w/ each Lightbar)		PLUG-IN DRIVERS	
NAL-201 NAL-201BZ	Flat Mounting Clip, Bronze - Set of Two	NATL-524	24V 24W Direct Plug-In LED Driver	
NAL-201BZ NAL-225BZ	Bar to Bar Joiner, Bronze	NATL-545	24V 45W Direct Plug-In LED Driver	
NAL-22562 NAL-225C	Bar to Bar Joiner, Chrome	NATL-596	24V 96W Class II Plug-In Electronic LED Driver	
NAL-2250 NAL-245	Angled Mounting Clip, Chrome - Set of Two (two are included w/ each Lightbar)		DRIVED AGGECCORIEC	
NAL-245BZ	Angled Mounting Clip, Bronze - Set of Two		DRIVER ACCESSORIES	
NAL-243B2 NAL-280C	Adjustable Mounting Clip, Chrome - Set of Two	NAL-250	Dimmer (Not for use with NMT Series)	
NAL-280BZ	Angled Mounting Clip, Bronze - Set of Two	NALTL-10	Replacement 10' Power Line Connector for NMT Series & NATL-5100HW	
NAL-ZOUBZ	· · · · · · · · · · · · · · · · · · ·	NALTL-30	Replacement 30' Power Line Connector for NMT Series & NATL-5100HW	
	POWER FEED INTERCONNECTORS	NATL-302	5" Splitter	
NAL-207	90° - 18" Power Line Interconnector	NATL-415W	Low Voltage Splice Box	
NAL-207/72	90° - 72" Power Line Interconnector	NRA-125/6	6" Extension Cord for NATL-530HW & NATL-560HW	
NAL-208	20" Power Line Interconnector	NRA-125/12	12" Extension Cord for NATL-530HW & NATL-560HW	
NAL-208/72	72" Power Line Interconnector	NRA-125/18	18" Extension Cord for NATL-530HW & NATL-560HW	
NAL-212	12" Power Line Interconnector with Switch	NRA-125/72	72" Extension Cord for NATL-530HW & NATL-560HW	
		NRA-6035W/6	6' Cord and Plug for NATL-530HW & NATL-560HW	
	OTHERS	NRA-6035W/10	v10' Cord and Plug for NATL-530HW & NATL-560HW	
NAL-220 -	Mini Coupler	NUSP-JBox	Junction Box required for hardwiring NATL-530HW & NATL-560HW	
NAL-221 -	Mini Power Feed Splitter			
NAL-230A -	Motion Sensor, Aluminum			
NAL-230BZ -	Motion Sensor, Bronze			
NAL-255A -	Mini Touch Dimmer, Aluminum			
NAL-255BZ -	Mini Touch Dimmer, Bronze			
NAL-270	Connector Retainer Clip			
NAL-299/6	6," Diffuser Lens			
NAL-299/12	12" Diffuser Lens			
NAL-299/24	24" Diffuser Lens			
NAL-299/36,	36" Diffuser Lens			
NAL-299/48	48" Diffuser Lens			
		1		

Example: NULB-6LED930BZ



LED Lightbar Interconnectors & Mounting Clips

End to End Connector

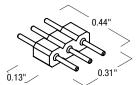
Miniature connector for seamless end-to-end transitions. One is included with every Lightbar.

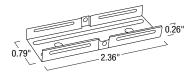
Bar to Bar Joiner

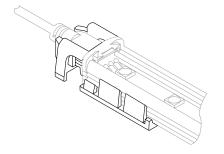
Can be used to provide rigidty when joining two bars together. Has mounting holes.

Retainer Clip

Can be used to keep the connector secured to the light bar.







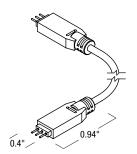
NAL-225BZ: Bar to Bar Joiner, Bronze **NAL-225C:** Bar to Bar Joiner, Chrome

NAL-270: Connector Retainer Clip

NAL-200: End to End Connector

Interconnection Cable

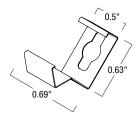
The interconnection cables allow for linking of any 2 Lightbars in any direction.



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)

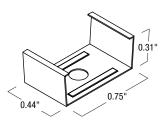
Align clip into the difference grooves in the extruded body of the Lightbar. (2) NAL-245 clips are included with every 6", 12" or 24" Lightbar.



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

Flat Mounting Clip (Set of 2)

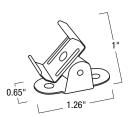
Adjustable aiming of 0° , 10° and 23° is available with the Flat Mounting Clip. (2) NAL-201 clips are included with every 6° , 12° or 24° Lightbar.



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 90° .



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

90° Power Line Interconnector

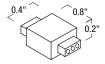
Allows for easy installation in a limited space application. Connects Lightbar run directly to driver.



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

Mini Coupler

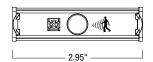
Extendes interconnection cables and power line interconnectors.



NAL-220: Mini Coupler

Motion Sensor

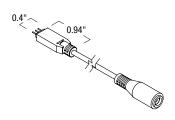
An in-line motion sensor that turns on the power of a run when motion is detected from 4' to 6'. Includes (1) bar to bar joiner, (1) adjustable mounting clip, (1) flat mounting clip, (2) end to end connectors, (1) power line interconnector with switch. Note: The included power line interconnector with switch MUST be used.



NAL-230A: Motion Sensor, Aluminum **NAL-230BZ:** Motion Sensor, Bronze

Power Line Interconnector

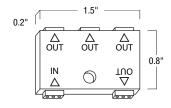
To connect Lightbar run directly to LED Driver.



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

Mini Power Feed Splitter

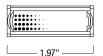
Allows one driver to be split into 4 separate, simultaneous runs. Requires one interconnection cable for each Lightbar.



NAL-221: Mini Power Feed Splitter

Mini Touch Dimmer

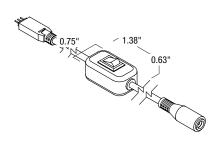
An in-line mini touch dimmer that has multiple functions of dimming and powering the lightbar run on and off. A simple touch on the sensor turns the run on and off, while holding the sensor will dim the light. Includes (1) bar to bar joiner, (1) flat mounting clip, (2) end to end connectors, (1) power line interconnector. Note: The included power line interconnector MUST be used.



NAL-255A: Mini Touch Dimmer, Aluminum **NAL-255BZ:** Mini Touch Dimmer, Bronze

Power Line Interconnector with Switch

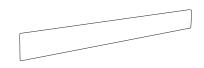
Allows for individual switching on any Lightbar run. Connects Lightbar run directly to LED Driver.



NAL-212: Power Line Interconnector with Switch

Diffuser Lens

Lens softens the LED image and diffuses the light. The lens is available in all Lightbar lengths and simply attached to Lightbars.



NAL-299/6-6," Diffuser Lens

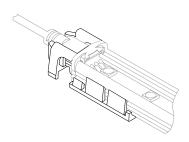
NAL-299/12- 12" Diffuser Lens

NAL-299/24- 24" Diffuser Lens

NAL-299/36- 36" Diffuser Lens

NAL-299/48- 48" Diffuser Lens

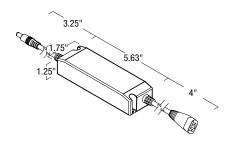
Connector Retainer Clip



NAL-270: Connector Retainer Clip

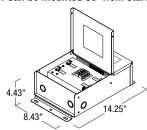
LED Lightbar Drivers

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

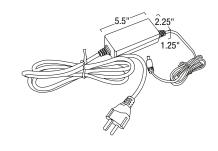
300W 24V Class II Dimmable Hardwire LED Driver Includes three 100W breakers, which allows hardwiring three Lightbar runs and dimming with Magnetic Low Voltage Dimmer. Includes (3) 10' power line connector (NALTL-10). Requires power line interconnection cable, cannot be used with NAL-250. Manual reset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



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

96W 24V Direct Plug-In LED Driver

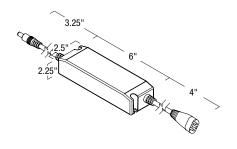
Allows direct connection a wall outlet with 5' cord and plug and 44" power line connector. Requires power line interconnection cable unless used with NAL-250. Non-Dimmable.



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

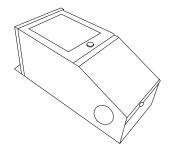
60W 24V Class II Hardwire Electronic LED Driver
Allows hardwiring Lightbar run by using
NUSP-JBox. Can also be converted into direct

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

Dimmable Class II Remote Hardwire Magnetic Driver With Integral Regulator for Constant Current and Voltage. Includes NALTL-10 120/277V



NMTD-60/24D -

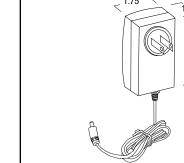
Dimmable Class II Remote Hardware Magnetic Driver (60W)

NMTD-96/24D

Dimmable Class II Remote Hardware Magnetic Driver (96W)

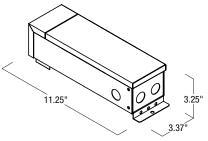
24V Direct Plug-In LED Drivers

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

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-5060HW: 24V 60W C2 Hardwire Driver NATL-5100HW: 24V 100W C2 Hardwire Driver

LED Lightbar Drivers Accessories

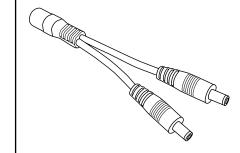
Dimmer

Capable of dimming two separate Lightbar runs simultaneously. 3 Modes: Dimming Mode, Autofading 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

Used to extend length between NUSP-JBox and NATL-530HW or NATL-560HW. Can be joined together to create custom lengths.

Extension Cord for NATL-530HW or NATL-560HW

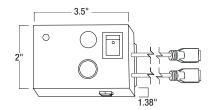
Splitter



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

NAL-302: 5" Splitter

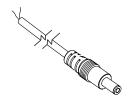


NAL-250: Dimmer

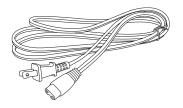
Replacement Power Line Connector

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.

Cord and Plug for NATL-530HW or NATL-560HW Used to convert NATL-530HW or NATL-560HW into a direct plug-in driver.



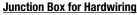
NALTL-10: 10' 24V Power Line Connector NALTL-30: 30' 24V Power Line Connector



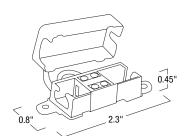
NRA-6035W/6: 6' Cord and Plug NRA-6035W/10: 10' Cord and Plug

Low Voltage Splice Box

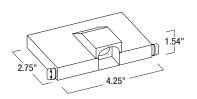
Use to join Romex® low voltage lead to power line connector.



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



NATL-415: Low Voltage Splice Box



NUSP-JBox: Junction Box for Hardwiring

