

FLL.RGBW

Noribachi Product Family Brochure
and Specifications



FLL.RGBW

The FLL.RGBW is a durable, color-changing LED Floodlight fixture featuring a fully RGBW-enabled light engine. Manufactured in the US with parts from US and imported.



The **FLL.RGBW** provides vibrant color changing capabilities in a rugged, durable housing. The red, green, blue and white (RGBW) LED array create vibrant DMX512/DMX256 controlled color-changing effects. Control red, green and blue separately, and deliver over 4 billion different color combinations. Use this fixture to light up building facades, art installations, amusement parks, entertainment venues and other large areas.

FLL.RGBW Highlights:

- Super-bright: up to 5,446 lumens
- 3 base configurations
- Operating temp: -40° C to +50° C
- Non-toxic chemical/ROHS compliant
- ETL certified, meets UL and CSA standards
- Manufactured in the US
- No UV or IR
- Mercury free, lead free
- Use with DMX512 or DMX256 enabled controllers

Appearance:

- RGBW LED light engine
- Rugged die-cast aluminum housing
- Multiple mounting options
- Clear or frosted lens
- Medium and skinny light distributions

Warranty:

- 3 year manufacturer's warranty
- First year includes labor
- Optional 10-year manufacturer's warranty
- U.S. manufacturing and quality control

Electrical Characteristics:

- Standard AC input 120/277VAC
- EMI filter: 47CFR, part 2, part 15
- Power factor: >.94
- Total harmonic distortion: <10%
- DMX compatible

Fixture Upgrades:

- Custom color
- Marine grade coating
- Epoxy coating
- Wire guard
- Frosted lens
- 6' or 10' SO cord with twist lock plugs

Electrical Upgrades:

- Wireless networking and controls
- Enhanced surge protection
- 480VAC optional

Mounting Options:

- Trunion mount
- Slip-fitter mount
- Wall mount

ELECTRICAL CHARACTERISTICS AND PERFORMANCE DATA VERIFIED BY NATIONALLY RECOGNIZED TESTING LABS (NRTL). FOR FULL REPORTS AND RESULTS, VISIT WWW.NORIBACHI.COM/REPORTS. ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. ALL VALUES TYPICAL UNLESS OTHERWISE NOTES. LUMEN VALUES MAY VARY BY +/-10%. COLOR TEMPERATURE MAY VARY BY +/-200K

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Performance Ratings and Certifications

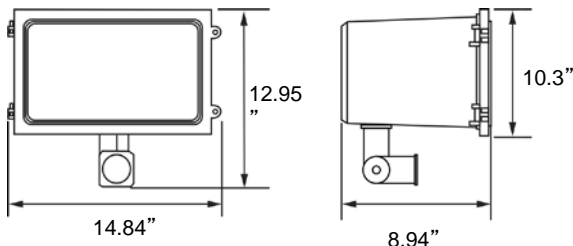
UL 1598
 UL 8760
 CSA C22.2#250.0
 IP 65
 For driver: EN 61347-1/-2-13, 62384, 55015, 55022, 61000-3-2, 61547, 62386-101/-102/- 207 UL, Recognized Component UL 1310, UL 8750 (Class 2 output) FCC 47 CFR Part 15 class B

Performance Summary

Lumens Range: 412 – 5446 lumens (see table for actual)
 Lumens Per Watt (Typical): see table
 LED Channels: Red/Green/Blue/White
 Control System: DMX512 or DMX256
 Manufactured in the U.S. with parts from U.S. and imported.

Fixture Information

Housing: Die Cast Aluminum Housing
 Color: Bronze with clear coat (standard), custom color, marine grade paint, or epoxy coating optional
 Finish: Superior dual coat finish, sealed polyester top coat, or chemical resistant epoxy primer
 Lens: Tempered Glass
 Mounting: Trunnion mount standard, Slip-fitter or wall mount optional
 Diffusion: Frosted lens optional
 Fixture Height: 12.94"
 Face Height: 8.94"
 Length: 10.3"
 Width: 14.84"
 Shipping Weight: 18 lbs.



* HEX-084-B-RGBW-MT-FLL model shown. Dimension drawing shown with optional slip-fitter mount.

Electrical System Characteristics / Data

Standard AC input: 120-277 VAC
 Power Consumption: see table
 EMI filter: 47CFR, part 2, part 15
 Operating Temperature: -40° F to 122° F (-40° C to 50° C)
 Harmonics: IEC 61000-3-2
 Noise Requirement: FCC Title 47, Subpart B, Section 15, class A device. RF immunity; 10V/m, 80MHz-1GHz
 Power factor: > 0.94
 Total harmonic distortion: < 20%
 Standard Surge Protection: 3kV (L to N), 4kV (L/N to GND)
 Enhanced Surge Protection: Protects Line-Ground, Line-Neutral, and Neutral-Ground. Protects against surges according to IEEE C62.41.2 C and ANSI C136.2

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Specifications and Options

Construction

Durable, die cast aluminum housing, with highly durable, textured powder coat finish. Lens is a high-impact / heat resistant borosilicate glass, tempered for maximum resistance to impact. Optional full cut off Visor available. Steel wire with chromized coating Wire Guard also available.

Optional Finishes

Custom colors available (specify RAL code). Epoxy finish and marine-grade coating available. Marine grade coating is green.

Optics

RGBW colors, to allow changing from pure white light to any hue available. Multiple channels of LEDs produce a full spectrum of light anywhere from deepest red to farthest violet. CRI great than 75 in the 2700K – 4000K range. The tempered glass lens is made for protection and clear light emission. Frosted lens optional.

Light Distribution Patterns

Medium pattern standard. Skinny pattern optional. Tighter beams available (6 week lead time).

Electrical System

Driver meets maximum harmonic distortion (THD) of 20% and is ROHS compliant. Power Factor = > 0.9. Standard Surge protection can protect against up to 4KV transient surge. Enhanced Surge Protection protects Line-Ground, Line-Neutral, and Neutral-Ground. Protects against surges according to IEEE C62.41.2 C(10kA and 10kV) and ANSI C136.2. Optional upgrades include 480V for up to 150W light engines and 480V for 150W-299W light engines.

Controls

Communication to fixture via DMX512 or DMX256 with four channel controls. Four channel control uses red, green, blue and white (to control intensity). DMX controller optional, either software DMX master (via CD and USB adapter) or a physical DMX master.

Mounting

Trunnion mount, slip-fitter and wall mount optional. Stainless steel locking hardware allows fixture head to be easily aimed and fixed in place. Fixtures are provided with 10' of 16/3 ST-W cord for supply method and 10' DMX data cable.

Wireless Control Options

2.4 GHz wireless DMX networking optional. Other frequencies available upon request.

Driver

Available in B drive current (525 mA). Highly reliable. Suitable for dry, damp and wet locations. Compliant to worldwide safety regulations for lighting.

Ambient Temperature

-40° C to +50° C (-40° F to + 122° F).

Testing Compliance

UL 1598 Issued: 2008/09/17 Ed:3 Rev: 2012/10/17 UL Standard for Safety Luminaires CSA C22.2#250.0 Issued: 2008/09/17 Ed:3 Luminaires; General Instruction No.1 2010/01/11, General Instruction No. 2 2012/10/17.

Manufacturing

Manufactured in beautiful Harbor City, CA. ARRA Compliant. NAFTA Compliant. Test and burn-in of 100% of all luminaries before shipment. No less than 8-years experience in manufacturing LED-based products.

Warranty

Standard limited 3 year warranty, first year includes labor. Optional 10 year warranty available. See details at www.Noribachi.com.

Note

Specifications subject to change without notice. Actual performance may differ as a result of end-user environment application. Actual wattage may differ by +/- 8%. Lumen values may vary by +/-10%, color temperature may vary by +/-200K or 8% for color LEDs.

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Specifications (continued)

Electrical Load				
Order Code	Drive Current (Amps @120VAC)	Drive Current (Amps @277VAC)	Drive Current (Amps @480VAC)	System Power RGBW (Watts)*
HEX-042-B-RGBW-MT-FLL	0.33	0.14	0.08	39.40
HEX-063-B-RGBW-MT-FLL	0.61	0.26	0.15	73.40
HEX-084-B-RGBW-MT-FLL	0.60	0.26	0.15	72.00
				*all LEDs max output

Operating Characteristics (all LEDs maximum output)				
Order Code	Channel*	Lumens (Medium Dist)	Input Power (Watts)	Lumens per Watt
HEX-042-B-RGBW-MT-FLL	Red	412	9.70	42.49
HEX-042-B-RGBW-MT-FLL	Green	847	12.30	68.82
HEX-042-B-RGBW-MT-FLL	Blue	387	12.20	31.72
HEX-042-B-RGBW-MT-FLL	White	1,265	14.10	89.69
HEX-042-B-RGBW-MT-FLL	RGBW	2,912	39.40	73.91
HEX-063-B-RGBW-MT-FLL	Red	771	16.00	48.18
HEX-063-B-RGBW-MT-FLL	Green	1,477	21.20	69.66
HEX-063-B-RGBW-MT-FLL	Blue	695	20.80	33.43
HEX-063-B-RGBW-MT-FLL	White	2,316	24.60	94.15
HEX-063-B-RGBW-MT-FLL	RGBW	5,163	73.40	70.34
HEX-084-B-RGBW-MT-FLL	Red	771	15.70	49.09
HEX-084-B-RGBW-MT-FLL	Green	1,622	20.80	77.99
HEX-084-B-RGBW-MT-FLL	Blue	738	20.50	35.98
HEX-084-B-RGBW-MT-FLL	White	2,410	24.10	99.99
HEX-084-B-RGBW-MT-FLL	RGBW	5,446	72.00	75.63
				*all LEDs max output

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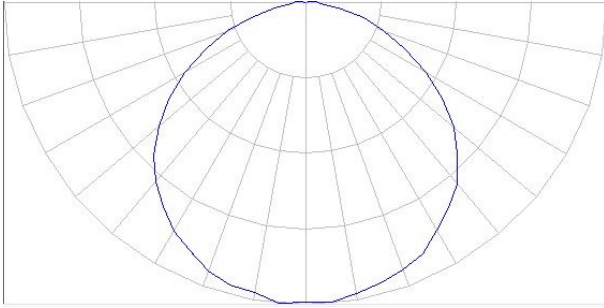


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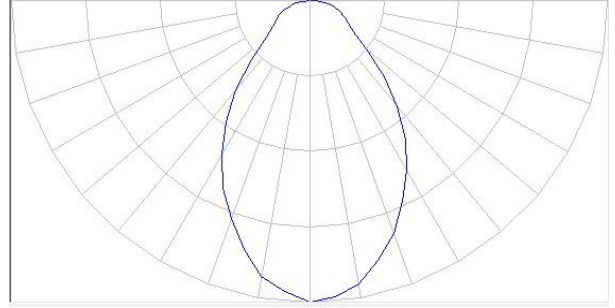
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Light Distribution Patterns

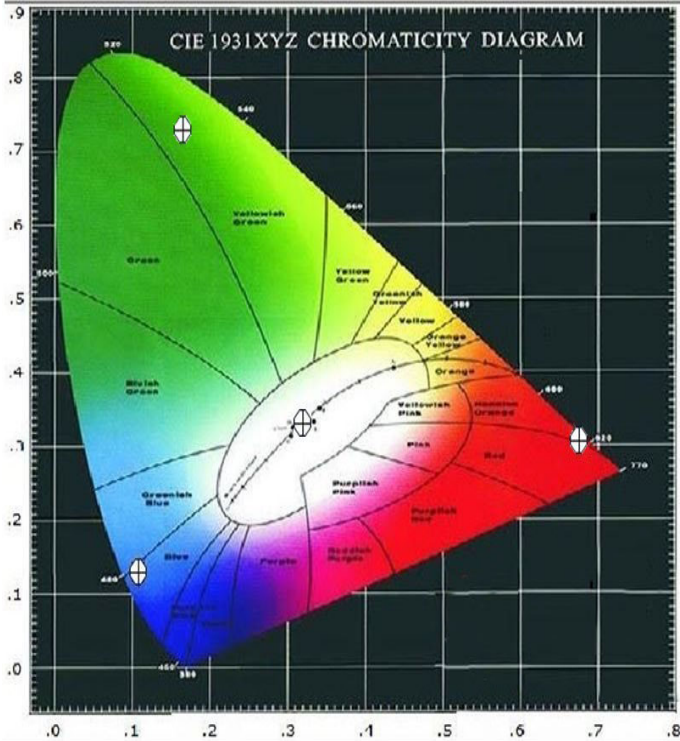
Medium Pattern
(standard on all configurations)



Skinny Pattern
(optional upgrade)



Photometric Data



Chromaticity coordinates:

White $x = 0.3264$ $y = 0.3427$

Red $x = 0.6977$ $y = 0.3014$

Green $x = 0.1897$ $y = 0.7174$

Blue $x = 0.1104$ $y = 0.1298$

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How to Order

Order Code	White		RGBW		Voltage
	Lumens	Watts	Lumens	Watts	
HEX-042-B-RGBW-MT-FLL	1,265	14	2,912	39	120 - 277VAC
HEX-063-B-RGBW-MT-FLL	2,316	25	5,163	73	120 - 277VAC
HEX-084-B-RGBW-MT-FLL	2,410	24	5,446	72	120 - 277VAC

Optional Upgrade	Ordering Code	How to Order
High Voltage (480VAC) option for TK	HV1	replace MT of order code with HV
High Voltage (480VAC) option for TK	HV2	replace MT of order code with HV
DMX512 Controller, H for hardward, S for software	CON256H/S	append CON512H or CON512S to order code
DMX256 Controller, H for hardward, S for software	CON512H/S	append CON256H or CON256S to order code
Custom Fixture Color (RAL code)	COL-[RAL]	append COL-[RAL] to order code and specify RAL code
Enhanced surge protection for 120-277VAC	SRG1	append SRG1 to order code
Enhanced surge protection for 480VAC	SRG2	append SRG2 to order code
Marine Grade Coating	COAT	append COAT to order code
Epoxy Coating	EPOXY	append EPOXY to order code
6' 16/3 STW Cord	CORD6	append CORD6 to order code
L515P 125V Twist Lock Plug	L515P	append L515P to order code
L615P 250V Twist Lock Plug	L615P	append L615P to order code
L715P 277V Twist Lock Plug	L715P	append L715P to order code
L720P 277V Twist Lock Plug	L720P	append L720P to order code
L820P 480V Twist Lock Plug	L820P	append L820L to order code
L830P 480V Twist Lock Plug	L830P	append L830P to order code
Frosted Lens	FR	append FR to order code
Wire Guard	WG	append WG to order code
Slip-fitter	SF	append SF to order code
Wall Mount Bracket	SQBRK	append SQBRK to order code
Visor	V	append V to order code
Skinny Light Distribution Pattern	SK	append SK to order code
Wireless Control Option	WLESS	contact your sales associate

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