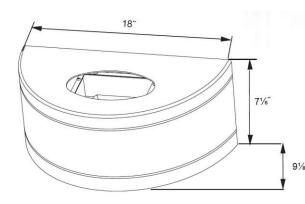
NORIBACHI ALive

WALLPACK.O







Performance Rating and Certifications

UL 1598 UL 8750 CSA C22.2#250.0 CSA C22.2#250.13

Design

LED Channels: Red, Green, Blue & White **Standard White:** Cool White (5000K) **Optics:** 120° STD, 40° option

Performance

Mixing Distance: 1 ft

Lumens: 1290 lumens UP / 1290 lumens DOWN

Efficacy: 85.5 LPW

Fixture Information

Housing: Die-cast housing

Color: Bronze or white. Custom color available

Finish: Powder coat finish over chromate conversion. Chemical resistant epoxy primer and/or Marine Grade coating optional

Lens: Tempered glass Mounting: Surface

Dimensions (LxWxH): 18" x 9.1" x 7.1"

Weight / Shipping Weight: 12.9 lbs. / 14.7 lbs.

Controls

Driver info: 50 Watt DMX Driver

Controllers: Software Application, Wall Mount Controller, Custom

Controller

Connection types: Wireless, Hardwired

Electrical Characteristics

AC input: 120-277 VAC

Power Consumption: 30.2 Watts **EMI Filter:** 47 CFR, part 15, Class B

91/8" Power Factor: >0.9

Total Harmonics Distortion: <20% Surge Protection: 1kV DM, 2kV CM

Enhanced Surge Protection: According to IEEE C62.41.2 C and

ANSI CI36.2















Performance Specifications

Electrical Load				
Light Engine	Drive current (Amps@120VAC)	Drive Current (Amps@277VA)	Drive Current (Amps@480VA)	System Power (Watts)
WPO-HEX-021U-21D	0.25	0.11	0.06	30.2 W

Operating Characteristics				
Light Engine	Light Engine Channel	Lumens	Input Power	Lumens per Watt (Efficacy)
WPO-HEX-021U	Red – 5 LEDs	215	2.5 W	88.5
	Green – 5 LEDs	395	4.2 W	95.4
	Blue – 5 LEDs	150	3.8 W	38.6
	White – 6 LEDs	530	4.6 W	114.2
	RGBW – 21 LEDs	1290	15.1 W	85.5
WPO-HEX-021D	Red – 5 LEDs	215	2.5 W	88.5
	Green – 5 LEDs	395	4.2 W	95.4
	Blue – 5 LEDs	150	3.8 W	38.6
	White – 6 LEDs	530	4.6 W	114.2
	RGBW – 21 LEDs	1290	15.1 W	85.5













NORIBACHI ALiVE

System Specifications

Construction

Durable, die-cast housing with highly durable, powder coat finish.

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.

Certifications

Noribachi complies with and exceeds standards set forth by UL and CSA. All luminaires comply with UL1598 (CSA C22.2#250.13) standards for safety. Performance testing is done in accordance with LM-79 Electrical and Photometric Measurements of Solid State lighting and LM-80 Lumen Depreciation Analysis for Solid State Lighting.

Electrical System

Standard AC input of 120-277VAC. Optional upgrade to 480VAC. Driver has total harmonic distortion(THD) less than 20% on full load power factor – 0.9. Standard Surge protection with an optional enhanced surge protection that 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.

Driver

UL recognized component (UL1310 (class 2 output) & 8750). Highly reliable. Suitable for dry locations. Compliant to worldwide safety regulations for lighting.

Controls

Communication to fixture via DMX512 or DMX256 with four channel controls, ability to control up to 512 different fixtures/groups separately. The controls system is able to controls four different color channels with the ability to dim each color. There are two different types of controllers offered. Please see Controller Specifications for more information and how to order the controllers.

Wired DMX Connections

Wired connections are the standard form of DMX connections. With input and output DMX connections on each fixture, the fixtures are easy to connect and effectively communicate RGBW control commands.

Wireless DMX Connections

Optional wireless DMX connection available. Wireless control includes a transmitter connected to the controller and desired number of receivers located in each fixture. The system uses a 2.4 GHz wireless DMX signal to pass along the RGBW control commands. The solution allows easy RGBW installation without introducing new wiring to your lighting system.

Optics

Multiple channels of LEDs produce a full spectrum of light anywhere from deepest red to farthest violet. CRI greater than 75 in the 2700k – 4000K range.

Single color and custom light color available upon request. 40 degree lens available for all Noribachi Hex applications.

Ambient Temperature

We provide fixtures that can sustain ambient temperature ranging from (-20C) – (50C) / (-4F) – (122F).











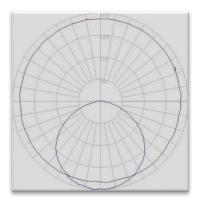




Distribution Data

WPO		Hex-021
Distance	Beam angle	Center Beam
4 ft	40°	52.1 fc
8 ft	40°	36.5 fc
12 ft	40°	19.0 fc
16 ft	40°	11.3 fc
20 ft	40°	7.5 fc
24 ft	40°	5.3 fc

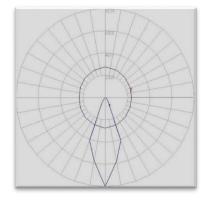
120 degree Beam Angle Standard



- -- Top View (Purple Larger Plot)
- -- Side View (Blue Smaller Plot)

40 degree Beam Angle

Optional Configuration



- -- Top View (Purple Larger Plot)
- -- Side View (Blue Smaller Plot)













Red

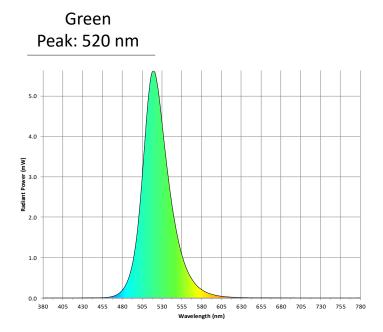


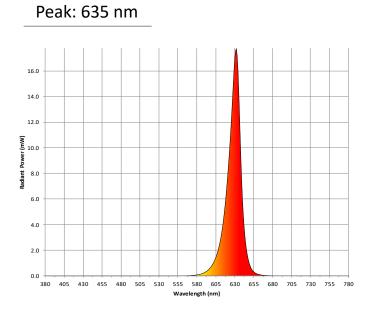
Photometric Data

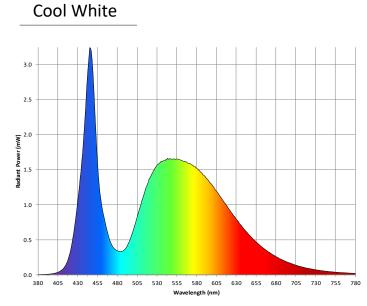
Blue Peak: 470 nm 6.0 Power (mW) 2.0 3.0 2.0 1.0 430 455 480 505 530 555 580 605 655 680

Wavelength (nm)

630







5000K















Lumen Performance

LM-80 Summary			
LED Color	Case Temperature	Drive Current	Reported TM-21 Lifetimes
Red	85°C	1000mA	L90(17k) = 68,900 hrs L80(17k) > 103,000 hrs L70(17k) > 103,000 hrs
Green	85°C	1000mA	L90(9k) = 51,400 hrs L80(9k) > 51,400 hrs L70(9k) > 51,400 hrs
Blue	85°C	1000mA	L90(9k) = 51,400 hrs L80(9k) > 51,400 hrs L70(9k) > 51,400 hrs

As Noribachi's drive current is less than 1000mA, the LM-80 data is conservative.

Lumen Multiplier			
Ambient Temperature	Lumen Multiplier		
10°C	1.032		
15°C	1.021		
25°C	1.000		
40°C	0.968		
50°C	0.946		

Each temperature has an independent initial value. In accordance with IESNA TM021011, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip). In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)















How to order

021U RGBW **WPO HEX** 021D **WRLSS** SRG1 **HEX** 1 HEX Red, Green, 120 VAC Neutral 40 Degree **Fixture** 1 HEX Surge Wireless UP DOWN Protector CLU Blue and White Beam input control ability White LEDs **LEDs** Angle

















How to Order

Order Code				
Numbering Order	Specification	Required/ Optional	Allowed Values	Description
1	Fixture	Required	WPO	For Wallpack.O
2	Light Board	Required	HEX	HEX CLU Geometry
3	Number of CLUs UP	Required	021U	For 1 HEX Facing Up model
4	Number of CLUs DOWN	Required	021D	For 1 HEX Facing Down model
5	LED Calar Observata	Required	RGBW	Red, Green, Blue and Cool White
	LED Color Channels		XXX	Custom Color Combinations possible*
6	Voltage	Required	MT	Standard AC input 120VAC - 277VAC
			HV1	High Voltage 480VAC option
7	Connections	Required	HW	Fixtures Hardwired to controller
			WRLSS	Wireless fixture communication with controller
8	White Color Temperature	Optional	NW	Neutral White
			ww	Warm White
9	Beam Angle	Optional	40D	40 degree beam angle option
10	Surge Protector	Optional	SRG1	Enhanced surge protector for 120-277VAC
			SRG2	Enhanced surge protector for 480 VAC

^{*} Color Options include Red, Green, Blue, Amber, Cool/Warm White. Specific temperatures available upon request.











