

# WALL SCONCE.OC

## Product Information

The Wall Sconce.OC is a flexible and energy-efficient LED lighting fixture.

This LED lighting fixture features aluminum housing with durable white powdercoat with clear coat.

Applications: Conference Rooms, Hallways, Recreational Facilities and a variety of other indoor lighting applications.

## Performance Ratings and Certifications

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

## Performance Summary

Lumens: 3,704 – 5,557 lm  
 Lumens Per Watt (typ.): 140 LPW  
 Power Consumption: 26.5 – 40 W  
 Light Engine: L70 Rated Lifetime of 100,000+ hours.  
 CRI: Minimum 80 CRI. Custom CRI also available.  
 CCT (Typical): 3000K, 4000K, 5700K, tight bins also available.  
 Manufactured in the U.S. with parts from U.S. and imported.

## Fixture Information

Housing: Aluminum  
 Color: Durable white powdercoat with clear coat. Optional custom color.  
 Finish: Superior dual coat finish.  
 Lens: Polycarbonate lens  
 Mounting: Wall mount  
 Length: 14.5"  
 Width: 3"  
 Height: Available in 5" or 10" heights

## Electrical System Characteristics / Data

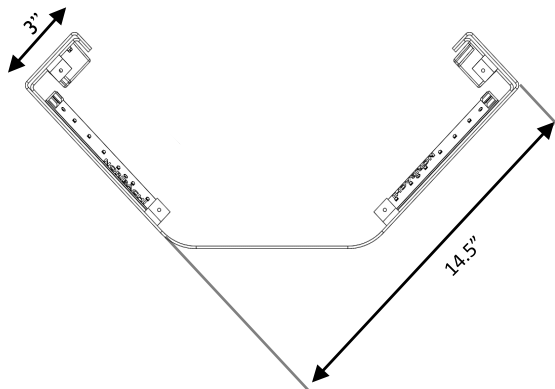
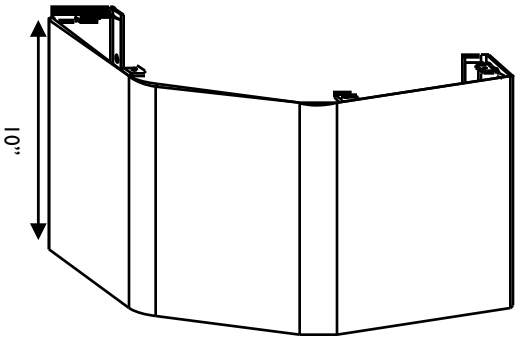
AC Input: 120/277 VAC (standard)  
 FCC: Title 47, Part 2, Part 15, Class A  
 EM: Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (60% load); EN61000-3-3  
 EM Immunity: Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A  
 Withstand Voltage: I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC  
 Isolation Resistance: I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 / 70% RH  
 Power Factor: PF > 0.98/115VAC, PF > 0.92/277VAC  
 Total Harmonic Distortion: THD < 20%  
 Standard Surge Protection: All-Around Protection: OVP, SCP, OLP.  
 Enhanced Surge Protection: Protects against surges according to IEEE C62.41.2 C and ANSI C136.2

## Optional Controls:

Wireless Controls: Optional via Pulse Wireless Mesh Network.  
 Dimming: 0-10V, step, line voltage or bi-level.  
 Daylight Harvesting Sensor: Optional  
 Occupancy Sensor: Optional  
 Photocell: Optional

## Warranty

Five-Year Limited Warranty. Optional 10-Year Manufacturer's Warranty Available. Full Warranty Terms Available At [www.noribachi.com/products/warranty](http://www.noribachi.com/products/warranty)



## Performance Specifications

| Electrical Load |                             |                             |                             |                       |
|-----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------|
| Light Engine    | Drive Current (Amps@120VAC) | Drive Current (Amps@277VAC) | Drive Current (Amps@480VAC) | System Power (Watts)* |
| LIN-024-A-NW-MT | 0.22                        | 0.10                        | N/A                         | 26.50                 |
| LIN-024-B-NW-MT | 0.33                        | 0.14                        | N/A                         | 39.70                 |

\* ideal wattage

| Operating Characteristics (Typical @4000K CCT) |                      |                     |                 |
|--|----------------------|---------------------|-----------------|
| Light Engine                                   | Lumens (Medium Dist) | Input Power (Watts) | Lumens per Watt |
| LIN-024-A-NW-MT                                | 3,704                | 26.50               | 140             |
| LIN-024-B-NW-MT                                | 5,557                | 39.70               | 140             |



## Electrical System Specifications

### Electrical System

Standard AC input of 120 – 277VAC. Driver meets maximum harmonic distortion (THD) of 20% and is ROHS compliant. Power Factor = > 0.9. Standard Surge protection according to IEC/EN 61000-4-5 EMC test standard and can protect against up to 4KV transient surge. Optional, 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.

### Controls

Optional controls include: 0-10V (010V), Step, line voltage and Bi-Level Dimming functionality (not guaranteed to work with all dimming systems). Occupancy and Daylight Harvest Sensors available. Optional Emergency Battery Backup: Nickel-Cadmium Batteries, 5W, 600 Lumens for 90 minutes. Optional Cold Emergency Battery Backup: 23W, 2000 Lumens for 90 minutes. The battery has a 7-10 year lifespan.

### Driver

All LED drivers provide constant current to give flicker free lighting. Two different drive currents are provided; A (350 mA) and B (525 mA). Highly reliable. Suitable for dry, damp and wet locations. Compliant to worldwide safety regulations for lighting.

### Ambient Temperature

We provide fixtures that can sustain ambient temperature ranging from -40F to 140F (-40C to 60C).

### Wireless Control Options

Optional wireless networking using the Noribachi Pulse Wireless controller. Pulse is an Arduino-based hardware platform that provides communication between fixtures and a base station using Digi's XBEE based mesh network. Pulse controls up to 16 independent LED lighting fixtures using an FCC approved 900 MHz frequency with up to 200 Kbps data transmission speed. Transmit power output 50 mW. Data transmission rate is 156.25 kbps. 128 bit AES Encryption.

### Occupancy Sensor and Daylight Harvesting

Sensor provides 60' diameter coverage from a 40' height. Time can be set from 30 seconds to 30 minutes.

### RGBW Controls

Optional RGBW controls with communication to fixture via DMX512 or DMX256 and 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. 2.4 GHz wireless DMX networking optional. Other frequencies available upon request.

### Testing Compliance

Noribachi complies with and exceeds standards set forth by UL and CSA. All luminaires comply with UL 1598 (CSA C22.2#250.13), and UL 8750 (CSA C22.2#250.0) standards for safety.

Performance testing is done in accordance with LM-79 color measurements and LM-79 distribution measurements, and LM-80 lumen maintenance testing.

### Manufacturing

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

### Warranty

Standard limited 5-year warranty, first year includes labor. Optional 10-year warranty available. See details at [www.Noribachi.com](http://www.Noribachi.com).

### Note

All safety tests and performance data is done in ambient (STP) conditions. 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 within compliance with ANSI C78-377 (unless specifying tight color bins).

## Optics Specifications for I 40 LPW lighting

### White LED Optics

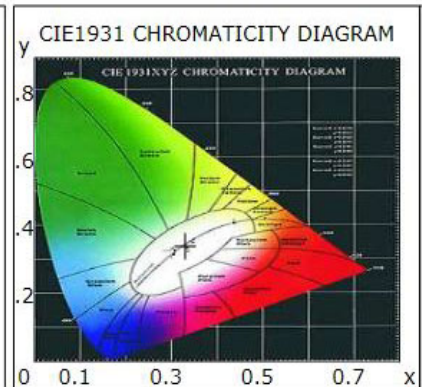
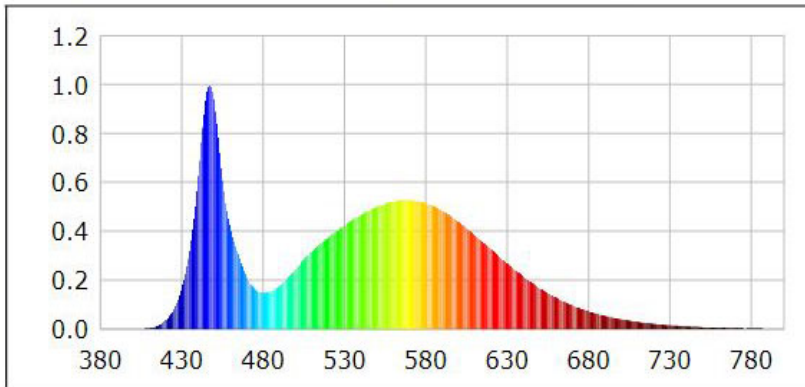
High brightness, high efficiency LEDs. Standard color temperature is Cool White (5000K typical). Neutral White (4000K typical) and Warm White (3000K typical) also available. All with minimum 70 CRI. Tight bins (<math>\pm 50\text{degK}</math> variability) also available – recommended for WW installations as the eye is sensitive to variations in this color range. 40deg and 80deg beam angle optional (n/a for RGBV).

### RGBW Light Engine Optics

RGBW light engine also available, compatible with DMX controller. 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 greater than 75 in the 2700K – 4000K range.

Single color light engines also available. Red=630 nanometers, Green=525 nanometers. Blue=475 nanometers.

### Photometric Data for White LED Light Engine



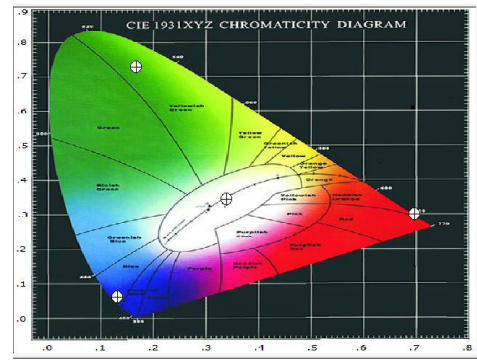
Chromaticity coordinates:  $x=0.3305$   $y=0.3424$   $u(u')=0.2050$   $v=0.3186$   $v'(v')=0.4779$   
 CCT:  $T_c=5700\text{K}$  ( $duv=0.00156$ ) Color Ratio:  $R=0.133$   $G=0.827$   $B=0.040$   
 Peak Wavelength: 447.2nm Half Bandwidth: 19.1nm  
 Dominant Wavelength: 535.2nm Color Purity: 0.020  
 Color Render Index:  $R_a=75.0$ ,  $avgR(1\sim 14)=65.6$ ,  $avgR(1\sim 15)=65.9$   

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =74 | R2 =76 | R3 =76 | R4 =81 | R5 =75 | R6 =66 | R7 =84 | R8 =67 |
| R9 =0  | R10=41 | R11=78 | R12=40 | R13=73 | R14=86 | R15=71 |        |

### Photometric Data for RGBW LED Light Engine

#### Chromaticity coordinates:

White  $x = 0.3405$ ,  $y = 0.3459$   
 Green  $x = 0.1687$ ,  $y = 0.7296$   
 Red  $x = 0.6968$ ,  $y = 0.3024$   
 Blue  $x = 0.1316$ ,  $y = 0.0636$

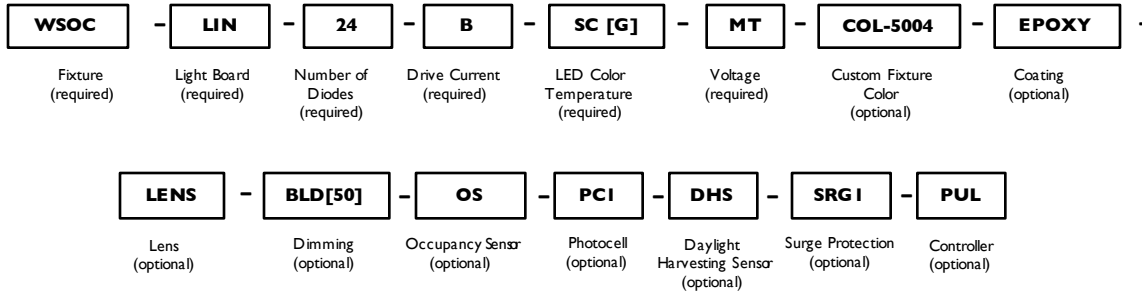


## Available Light Engines

| Fixture      | Standard Order Code  | Lumens | Watts | Voltage      | Color Temp            |
|--------------|----------------------|--------|-------|--------------|-----------------------|
| <b>WS.OC</b> | WSOC-LIN-024-A-NW-MT | 3,704  | 27    | 120 - 277VAC | 4000K (neutral white) |
|              | WSOC-LIN-024-B-NW-MT | 5,557  | 40    | 120 - 277VAC | 4000K (neutral white) |

## How to Order

Sample Order Code: Only include the optional upgrades you need.



## How to Order (continued)

| Numbering Order | Specification              | Required or Optional | Allowed Values               | Description   |
|-----------------|----------------------------|----------------------|------------------------------|---|
| 1               | Fixture                    | Required             | WSOC                         | For Wall Sconce.Outside Corner                              |
| 2               | Light Board                | Required             | LIN                          | For WSOC  |
| 3               | Number of Diodes           | Required             | 24                           | For all   |
| 4               | Drive Current              | Required             | A                            | A (350mA) drive current                                     |
|                 |                            |                      | B                            | B (525mA) drive current                                     |
| 5               | LED Color Temperature      | Required             | CW                           | Standard Cool white LEDs (5700K)                            |
|                 |                            |                      | NW                           | Neutral White LEDs (4000K)                                  |
|                 |                            |                      | WW                           | Warm White LEDs (3000K)                                     |
|                 |                            |                      | [Specific degree Kelvin]     | Specific color temp LEDs [Specific degree Kelvin]           |
|                 |                            |                      | TB1 [Specific degree Kelvin] | Tight Bin LED Color [Specific degree Kelvin]                |
|                 |                            |                      | TB2 [Specific degree Kelvin] | Tight Bin LED Color [Specific degree Kelvin] for all others |
|                 |                            |                      | RGBW                         | Red/Green/Blue/White light engine                           |
|                 |                            |                      | SC [R, G, B]                 | Red, Green, or Blue light engine                            |
| 6               | Voltage                    | Required             | MT                           | Standard AC input: 120VAC - 277VAC                          |
| 7               | Custom Fixture Color       | Optional             | COL-[RAL]                    | Custom Fixture Color (RAL code)                             |
| 8               | Coating                    | Optional             | EPOXY                        | Epoxy Coating   |
| 9               | Lens                       | Optional             | Lens                         | Polymetric Lens   |
| 10              | Dimming                    | Optional             | 010V                         | 0 - 10V dimming   |
|                 |                            |                      | STEP                         | Step dimming  |
|                 |                            |                      | LVDIM                        | Line voltage dimming  |
|                 |                            |                      | BLD[%]                       | Bi-level dimming  |
| 11              | Occupancy Sensor           | Optional             | OS                           | Occupancy Sensor  |
| 12              | Photocell                  | Optional             | PC1                          | Photocell for 120V applications                             |
|                 |                            |                      | PC2                          | Photocell for 277V applications                             |
| 13              | Daylight Harvesting Sensor | Optional             | DHS                          | Daylight Harvesting Sensor                                  |
| 14              | Surge Protection           | Optional             | SRG1                         | Enhanced surge protection for 120-277VAC                    |
|                 |                            |                      | SRG2                         | Enhanced surge protection for 480VAC                        |
| 15              | Controller                 | Optional             | PUL                          | Pulse Wireless Controller                                   |