

Product Information

Product Order Code: ZIPPY-063-CW-MT
 DLC Order Code: L-C-CUS-63-REC-B-CW-MT
 Common Replacement: 250 – 400W MH

The Zippy-063 retrofit kit can be used in Arealight, Canopy, Cans, Cobrahead, Downlight, Floodlight, Post Top and Wallpack lighting fixtures.

Performance Ratings and Certifications

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

Performance Summary

Lumens: 14,586 lumens
 Lumens Per Watt (Typical): 140 LPW
 Power Consumption: 104 W
 Light Engine: L70 Rated Lifetime of 100,000+ hours.
 CRI: Minimum 70 CRI. Custom CRI available upon request.
 CCT (Typical): 3000K, 4000K, 5700K
 Manufactured in the U.S. with parts from U.S. and imported.

Fixture Information

Mounting Plate: Aluminum 3003
 Mounting: Universal mounting kit with four 2.5" four 4.75" and four 11" magic tabs
 Length: 11"
 Width: 11"
 Depth: 3.21"
 Weight: 3.86 lbs.
 Shipping Weight: 5.65 lbs.

Fits Luminaires with Internal Dimensions of

Length: 11.25 - 33"
 Width: 11.25 - 33"
 Depth: 4" (minimum)

Electrical System Characteristics / Data

AC Input: 120/277 VAC (standard), 480 VAC (upgrade)
 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
 Emergency Batt. Backup: Optional upgrades available.

Optional Controls:

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

Warranty

3-Month Limited Warranty. Optional 5-Year Manufacturer's Warranty Available. Full Warranty Terms Available At 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)* |
| ZIPPY-063 | 0.87 | 0.38 | 0.22 | 104 |
| * ideal wattage | | | | |

| Operating Characteristics (Typical @5700K CCT) | | | | |
|--|----------------------|---------------------|-----------------|------------|
| Light Engine | Lumens (Medium Dist) | Input Power (Watts) | Lumens per Watt | Replaces |
| ZIPPY-063 | 14,586 | 104 | 140.00 | 250 – 400W |

Fixture Specifications

Construction

Durable aluminum 3003 plate with high lumen packages.

Mounting Options

All Zippy Kits! come with a package of hardware that precludes the use of a custom plate. Mounting kits include several different sized, fully adjustable magic-tabs, a collection of wire connectors, fastening hardware, spacers and zip-ties.



Electrical System Specifications

Electrical System

Standard AC input of 120 – 277VAC. Optional upgrade to 480VAC. 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 3-month warranty, first year includes labor. Optional 5-year warranty available. See details at 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).

Ordering

In stock and ready to ship in 72 hours!

Optic Specifications

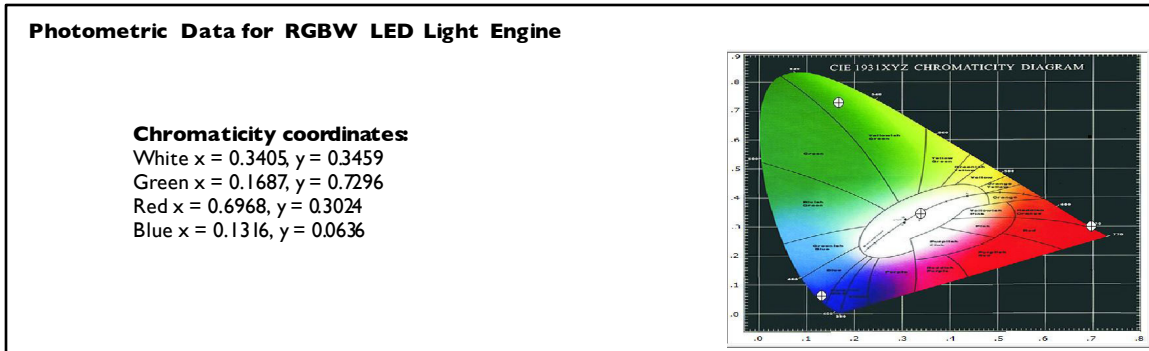
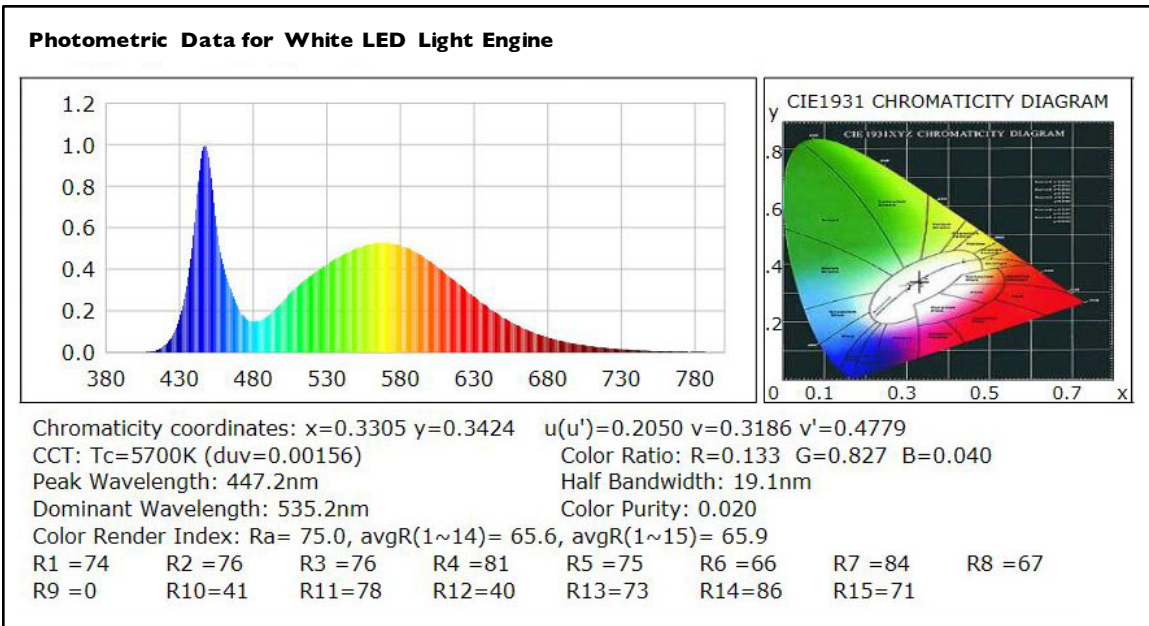
White LED Optics

High brightness, high efficiency LEDs. Standard color temperature is Cool White (5700K typical). Neutral White (4000K typical) and Warm White (3000K typical) also available. All with minimum 70 CRI. Tight bins (<+/-50degK 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 RGBW).

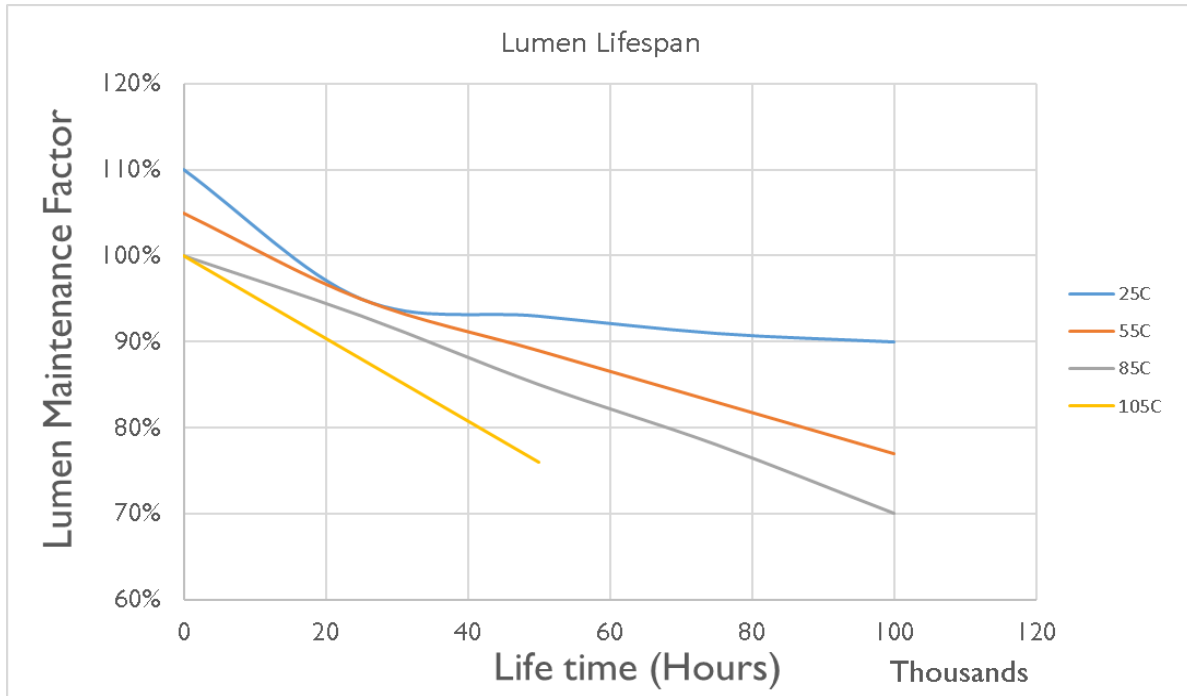
RGBW Light Engine Optics

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 great than 75 in the 2700K – 4000K range.

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



Lumen Performance



| Lumen Maintenance Factors (B Drive) | | | | | |
|-------------------------------------|-------------|----------------------|----------------------|----------------------|-----------------------|
| T _j (Junction Temp) | INITIAL LMF | 25K HR PROJECTED LMF | 50K HR PROJECTED LMF | 75K HR PROJECTED LMF | 100K HR PROJECTED LMF |
| 25°C | 1.10 | 0.95 | 0.93 | 0.91 | 0.90 |
| 55°C | 1.05 | 0.95 | 0.89 | 0.83 | 0.77 |
| 85°C | 1.00 | 0.93 | 0.85 | 0.78 | 0.70 |
| 105°C | 1.00 | 0.88 | 0.76 | N/A | N/A |

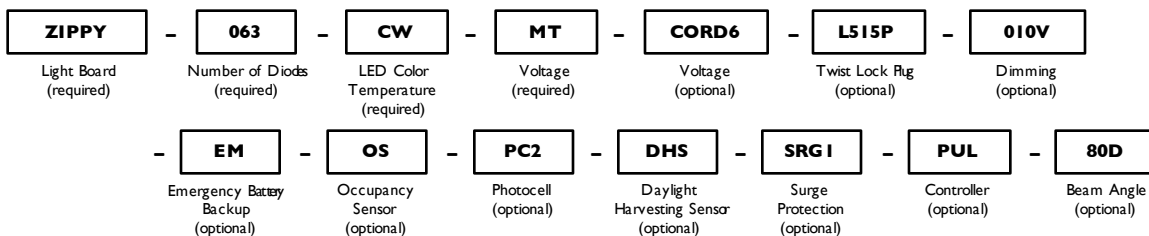
Each temperature has an independent initial value. In accordance with IESNA TM021011, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip).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

| 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 |

ZIPPY-063

How to Order

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



For Rebates, use DLC order code. **Ex: L-C-CUS-63-REC-B-CW-MT**

| Numbering Order | Specification | Required or Optional | Allowed Values | Description |
|-----------------|----------------------------|----------------------|------------------------------|---|
| 1 | Light Board | Required | ZIPPY | For ZIPPY-063 |
| 2 | Number of Diodes | Required | 063 | For ZIPPY-063 |
| 3 | 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] for < 150W |
| | | | TB2 [Specific degree Kelvin] | Tight Bin LED Color [Specific degree Kelvin] for > 150W |
| | | | RGBW* | Red/Green/Blue/White light engine |
| 4 | Voltage | Required | MT | Standard AC input 120VAC - 277VAC |
| | | | HV1 | High Voltage (480VAC) option for up to 150W |
| | | | HV2 | High Voltage (480VAC) option for greater than 150W |
| 5 | Cord | Optional | CORD6 | 6' 16/3 STW Cord |
| | | | CORD10 | 10' 16/3 STW Cord |
| 6 | Twist Lock Plug | Optional | L515P | L515P 125V Twist Lock Plug |
| | | | L615P | L615P 250V Twist Lock Plug |
| | | | L715P | L715P 277V Twist Lock Plug |
| | | | L720P | L720P 277V Twist Lock Plug |
| | | | L820P | L820P 480V Twist Lock Plug |
| | | | L830P | L830P 480V Twist Lock Plug |
| 7 | Dimming | Optional | 010V | 0 - 10V dimming |
| | | | STEP | Step dimming |
| | | | LVDIM | Line Voltage dimming |
| | | | BLD | Bi-level dimming |
| 8 | Emergency Battery Backup | Optional | EM | Emergency Battery Backup |
| | | | EMC | Emergency Battery Backup - Cold |
| 9 | Occupancy Sensor | Optional | OS | Occupancy Sensor |
| 10 | Photocell | Optional | PC1 | Photocell for 120V applications |
| | | | PC2 | Photocell for 277V applications |
| 11 | Daylight Harvesting Sensor | Optional | DHS | Daylight Harvesting Sensor |
| 12 | Surge Protection | Optional | SRG1 | Enhanced Surge Protection 120-277VAC |
| | | | SRG2 | Enhance Surge Protection 480VAC |
| 13 | Controller | Optional | PUL | Pulse Wireless Controller |
| 14 | Beam Angle | Optional | 80D | 80degree beam angle optics |
| | | | 40D | 40degree beam angle optics |

*Lead time will be greater than 72 hours

