# ARCHITECTURAL SAW100

SERIES 2FT, 4FT, 8FT

® 3" WIDE ASYMMETRICAL STRIP LUMINAIRE

LED

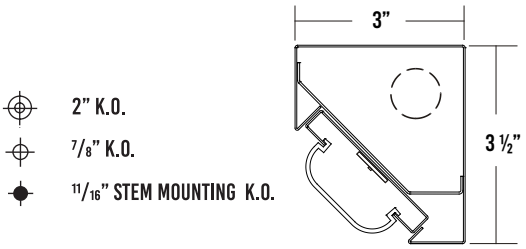
| | |
|---|---|
| JOB | |
| TYPE | |
| DATE | |

WWW.LALIGHTING.COM TEL: 626-454-8300

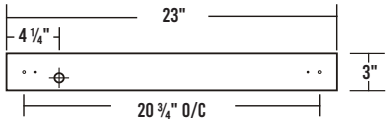
## CEILING / WALL SURFACE MOUNTED LED LUMINAIRE

## DIMENSIONS

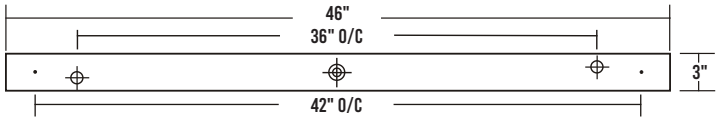
### CROSS SECTION



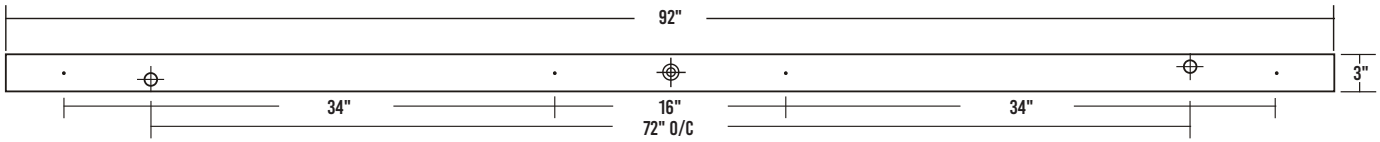

### 2' BACKPLATE




### 4' BACKPLATE




### 8' BACKPLATE




## SPECIFICATIONS

### CONSTRUCTION
- 22 gauge cold-rolled steel welded housing

### FINISH
- Baked white powder-coated finish
- Painted after fabrication
- Minimum reflectance 90%

### OPTICAL
- Frosted acrylic lens

### ELECTRICAL
- High-efficiency drivers coupled with long-life LEDs
- Service life tested at 50,000 hours (L70)
- Universal voltage 120V through 277V (347V / 480V available)
- Power Factor (PF) ≥ 0.9
- Total Harmonic Distortion (THD) ≤ 20%

### LISTING
- UL USA and Canada listed / suitable for damp locations

### WARRANTY
- 5-Year limited warranty standard. 10-Year limited warranty also available

## APPLICATIONS

Architectural, Office, Retail, Museum, Bowling Alley, Commercial

## FEATURES

- 0-10V Dimming driver standard
- Supports California Title 24 compliance

## OPTIONS CONTACT CUSTOMER SERVICE FOR ADDITIONAL OPTIONS

- Controls
- Variety of lenses
- Custom housing colors
- Emergency battery pack
- Tunable white (2700K-6500K)
- Customization available upon request

## CUSTOM COLORS

BLK - Matte Black | CS - Camaro Silver | BZ - Statuary Bronze

*Variety of RAL colors available upon request.*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## ORDERING INFORMATION

ADDITIONAL OPTIONS AVAILABLE. VISIT WWW.LALIGHTING.COM/RESOURCES FOR MORE INFORMATION

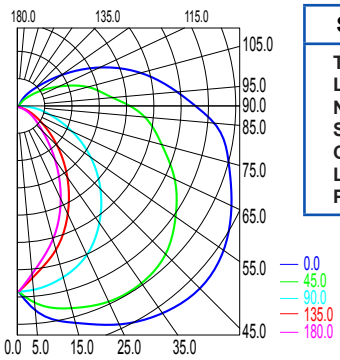
**EXAMPLE: SAW100-4-4L-FRWA-BPL1.5-DRDM-UNV-1/840**

| SERIES | NOMINAL LED LUMENS | NOMINAL LENGTH | COLOR | OPTICAL | CONTROLS | ELECTRICAL | DRIVER | VOLTAGE | # OF LED ROWS | CRI / CCT |
|---|---|---|---|---|---|---|---|---|---|---|
| **SAW100** | | | | | | | **DRDM** | **UNV** | **1** | |
| **SAW100**<br>3" Wide Asymmetrical Strip Luminaire | **1** - 1000lm<br>**2** - 2000lm<br>**3** - 3000lm<br>**4** - 4000lm<br><br>**High Efficacy**<br>**1HE** - 1000lm<br>**2HE** - 2000lm<br>**3HE** - 3000lm | **2L**<br>• 2' | **(Blank)**<br>• Standard White<br><br>**BLK**<br>• Matte Black<br><br>**BZ**<br>• Statuary Bronze<br><br>**CS**<br>• Camaro Silver | **FRA**<br>• Frosted Acrylic<br><br>**FRWA**<br>• Frosted White Acrylic | **WLC(AWNR-WH)**<br>Lutron Athena wireless node (RF)<br><br>**WLC(AWNS-WH)**<br>Lutron Athena wireless node w/ sensor<br><br>Additional Lutron options on page (4) | **BPL1.5** [1]<br>• Emergency Battery Pack 1500 lm<br><br>*Leave blank if not specified | **DRDM**<br>• 0-10V Dimming Driver | **UNV**<br>• 120V-277V | **1**<br>• 1 LED Row | **830**<br>• 80+CRI / 3000K<br><br>**835**<br>• 80+CRI / 3500K<br><br>**840**<br>• 80+CRI / 4000K<br><br>**850**<br>• 80+CRI / 5000K<br><br>**8TW**<br>• 80+CRI Tunable White 2700K-6500K<br><br>*Contact customer service for additional CRI / CCT packages, including 90CRI* |
| | **2** - 2000lm<br>**4** - 4000lm<br>**6** - 6000lm<br>**8** - 8000lm<br><br>**High Efficacy**<br>**2HE** - 2000lm<br>**4HE** - 4000lm<br>**6HE** - 6000lm | **4L**<br>• 4' | | | | | | | | |
| | **4** - 4000lm<br>**8** - 8000lm<br>**12** - 12000lm<br>**16** - 16000lm<br><br>**High Efficacy**<br>**4HE** - 4000lm<br>**8HE** - 8000lm<br>**12HE** - 12000lm | **8L**<br>• 8' | | | | | | | | |

*Standard options for SAW100 shown above. For additional options, including lumen packages, controls, lenses, switches, finishes, and more, visit www.lalighting.com/resources or contact customer service.*

[1] *Emergency battery not available for 2' length.*

## PHOTOMETRIC DATA




**SAW100-4-4L-FRWA-DRDM-1/840**

**TEST NO. = LA-T3468**
**LED TYPE = 48 LED MODULE**
**NO. OF MODULE = 2**
**SYSTEM WATT (W) = 31.2**
**CRI ≥ 80**
**L70(Hrs.) ≥ 50,000**
**PHOTOMETRY TYPE = C**

**ZONAL LUMEN SUMMARY**

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---|---|---|---|
| 0-30 | 625 | 15 | 18 |
| 0-40 | 1030 | 24 | 29 |
| 0-60 | 1898 | 44 | 54 |
| 0-90 | 2910 | 68 | 83 |
| 90-120 | 495 | 12 | 14 |
| 90-150 | 593 | 14 | 17 |
| 90-180 | 596 | 14 | 17 |
| 0-180 | 3506 | 82 | 100 |

**SPACING CRITERION**

| ALONG | ACROSS |
|---|---|
| 1.97 | 1.21 |

Luminaire Output = 3506.2 lumens
Luminaire Efficacy = 112.4 lm/W
Luminaire Efficiency = 81.84 %

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## SYSTEM DATA

## ADDITIONAL LUMEN PACKAGES AVAILABLE. CONTACT CUSTOMER SERVICE FOR MORE INFORMATION

| 2' - LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT EQUIVALENT | IES FILES |
|---|---|---|---|---|---|---|---|
| 1000 Lumens (Nominal) | SAW100-1-2L-FRWA-DRDM-UNV-1/840 | 849 | 7.6 | 111.1 lm/W | -20°C / 35°C (-4°F / 95°F) | 1-F17T8 | * |
| 2000 Lumens (Nominal) | SAW100-2-2L-FRWA-DRDM-UNV-1/840 | 1666 | 14.1 | 117.9 lm/W | -20°C / 35°C (-4°F / 95°F) | 2-F17T8, 1-F24T5HO | LA-T3467 |
| 3000 Lumens (Nominal) | SAW100-3-2L-FRWA-DRDM-UNV-1/840 | 2551 | 22.1 | 115.6 lm/W | -20°C / 35°C (-4°F / 95°F) | 3-F17T8 | * |
| 4000 Lumens (Nominal) | SAW100-4-2L-FRWA-DRDM-UNV-1/840 | 3377 | 27.2 | 123.8 lm/W | -20°C / 35°C (-4°F / 95°F) | 4-F17T8, 2-F24T5HO | * |

| 2' - LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT EQUIVALENT | IES FILES |
|---|---|---|---|---|---|---|---|
| 1000 Lumens (Nominal) | SAW100-1HE-2L-FRWA-DRDM-UNV-1/840 | 917 | 7.5 | 122.3 lm/W | -20°C / 35°C (-4°F / 95°F) | 1-F17T8 | * |
| 2000 Lumens (Nominal) | SAW100-2HE-2L-FRWA-DRDM-UNV-1/840 | 1631 | 12.3 | 131.8 lm/W | -20°C / 35°C (-4°F / 95°F) | 2-F17T8, 1-F24T5HO | * |
| 3000 Lumens (Nominal) | SAW100-3HE-2L-FRWA-DRDM-UNV-1/840 | 2464 | 18.6 | 131.9 lm/W | -20°C / 35°C (-4°F / 95°F) | 3-F17T8 | * |

| 4' - LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT EQUIVALENT | IES FILES |
|---|---|---|---|---|---|---|---|
| 2000 Lumens (Nominal) | SAW100-2-4L-FRWA-DRDM-UNV-1/840 | 1702 | 13.4 | 126.9 lm/W | -20°C / 35°C (-4°F / 95°F) | 1-F32T8 | * |
| 4000 Lumens (Nominal) | SAW100-4-4L-FRWA-DRDM-UNV-1/840 | 3343 | 26.7 | 125.2 lm/W | -20°C / 35°C (-4°F / 95°F) | 2-F32T8, 1-F54T5HO | LA-T3468 |
| 6000 Lumens (Nominal) | SAW100-6-4L-FRWA-DRDM-UNV-1/840 | 5206 | 43.6 | 119.2 lm/W | -20°C / 35°C (-4°F / 95°F) | 3-F32T8 | * |
| 8000 Lumens (Nominal) | SAW100-8-4L-FRWA-DRDM-UNV-1/840 | 6777 | 51.1 | 132.5 lm/W | -20°C / 35°C (-4°F / 95°F) | 4-F32T8, 2-F54T5HO | * |

| 4' - LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT EQUIVALENT | IES FILES |
|---|---|---|---|---|---|---|---|
| 2000 Lumens (Nominal) | SAW100-2HE-4L-FRWA-DRDM-UNV-1/840 | 1841 | 13.5 | 135.9 lm/W | -20°C / 35°C (-4°F / 95°F) | 1-F32T8 | * |
| 4000 Lumens (Nominal) | SAW100-4HE-4L-FRWA-DRDM-UNV-1/840 | 3273 | 23.4 | 139.5 lm/W | -20°C / 35°C (-4°F / 95°F) | 2-F32T8, 1-F54T5HO | * |
| 6000 Lumens (Nominal) | SAW100-6HE-4L-FRWA-DRDM-UNV-1/840 | 4944 | 36.4 | 135.8 lm/W | -20°C / 35°C (-4°F / 95°F) | 3-F32T8 | * |

| 8' - LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT / HID EQUIVALENT | IES FILES |
|---|---|---|---|---|---|---|---|
| 4000 Lumens (Nominal) | SAW100-4-8L-FRWA-DRDM-UNV-1/840 | 3411 | 25.7 | 132.4 lm/W | -20°C / 35°C (-4°F / 95°F) | 2-F32T8 | * |
| 8000 Lumens (Nominal) | SAW100-8-8L-FRWA-DRDM-UNV-1/840 | 6698 | 52.6 | 127.1 lm/W | -20°C / 35°C (-4°F / 95°F) | 4-F32T8, 2-F54T5HO | LA-T3469 |
| 12000 Lumens (Nominal) | SAW100-12-8L-FRWA-DRDM-UNV-1/840 | 10128 | 81.9 | 123.6 lm/W | -20°C / 35°C (-4°F / 95°F) | 6-F32T8 | * |
| 16000 Lumens (Nominal) | SAW100-16-8L-FRWA-DRDM-UNV-1/840 | 13284 | 99.2 | 133.9 lm/W | -20°C / 35°C (-4°F / 95°F) | 8-F32T8, 4-F54T5HO | * |

| 8' - LED LUMEN PACKAGE | NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE | DELIVERED LUMENS | SYSTEM WATTS | LUMINAIRE EFFICACY | AMBIENT TEMP. | FLUORESCENT EQUIVALENT | IES FILES |
|---|---|---|---|---|---|---|---|
| 4000 Lumens (Nominal) | SAW100-4HE-8L-FRWA-DRDM-UNV-1/840 | 3318 | 22.7 | 145.9 lm/W | -20°C / 35°C (-4°F / 95°F) | 2-F32T8 | * |
| 8000 Lumens (Nominal) | SAW100-8HE-8L-FRWA-DRDM-UNV-1/840 | 6556 | 45.2 | 144.7 lm/W | -20°C / 35°C (-4°F / 95°F) | 4-F32T8, 2-F54T5HO | * |
| 12000 Lumens (Nominal) | SAW100-12HE-8L-FRWA-DRDM-UNV-1/840 | 9904 | 71.1 | 139.2 lm/W | -20°C / 35°C (-4°F / 95°F) | 6-F32T8 | * |

***NOTE:***

*System data is based on 120V input voltage. Actual performance may differ as a result of end-user environment and application.*

*This fixture has been tested and listed in accordance with UL Standards. L.A. Lighting certifies that it will operate safely when installed properly, and within an ambient temperature range noted in the system data table.*

*Additional lumen packages and color temperatures available.*

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# WIRELESS CONTROLS

## How to Order

Pre-installed components are ordered by adding the part number to the luminaire:

GHL320-4-4L-FSW-PA- **WLC(FCJS0)** -DRDM-UNV-2/840

*Components marked with * are ordered separately*

## Vive Systems

### Vive PowPak Wireless Fixture Controls

**WLC(FCJS0) - PowPak Wireless Fixture Control**
- RF only. For use with 0-10V drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.

**WLC(FCJS0S) - PowPak Wireless Fixture Control with Sensor**
- RF with daylight/occupancy sensing. For use with 0-10V drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.
- Sensor must be installed separately.

**WLC(FCJSE) - PowPak EcoSystem Wireless Fixture Control**
- RF only. For use with Lutron EcoSystem drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.

**WLC(FCJSES) - PowPak EcoSystem Wireless Fixture Control with Sensor**
- RF with daylight/occupancy sensing. For use with Lutron EcoSystem drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.
- Sensor must be installed separately.

### Vive PowPak Sensors

***FC-SENSOR - PowPak Occupancy/Daylight Sensor**
- For luminaires with existing PowPak Wireless Fixture Controls.
- Turns luminaire ON/OFF based on motion. Adjusts lumen output in response to ambient light.
- Recommended mounting height: 8-12ft

***FC-VSENSOR - PowPak Vacancy/Daylight Sensor**
- For luminaires with existing PowPak Wireless Fixture Controls.
- Turns luminaire OFF when area is vacant. Adjusts lumen output in response to ambient light.
- Recommended mounting height: 8-12ft.

### Vive Integral Fixture Controls

**WLC(VRF) - Vive Integral Wireless Fixture Control**
- RF only. Requires controls-ready driver.
- One fixture control per luminaire, mounting location varies by luminaire.

**WLC(VDO) - Vive Integral Wireless Fixture Control**
- RF, plus daylight/occupancy sensing. Requires controls-ready driver.
- One fixture control per luminaire, mounting location varies by luminaire.
- Turns luminaire ON/OFF based on motion. Adjusts lumen output in response to ambient light.
- Coverage area at 9ft mounting height: Up to 300 sq.ft for major motions; 150 sq.ft. for minor motions.

## Athena Wireless Nodes

**Requires Athena-compatible drivers and Clear Connect Gateway - Type X**

**WLC(AWNR-WH) - Wireless Node (White)**
- RF communication node. One per luminaire, integrally mounted.

**WLC(AWNS-WH) - Wireless Node (White) with Sensor**
- RF, plus daylight/occupancy sensing. One per luminaire, integrally mounted.

**WLC(AWNR-BL) - Wireless Node (Black)**
RF communication node. One per luminaire, integrally mounted.

**WLC(AWNS-BL) - Wireless Node (Black) with Sensor**
- RF, plus daylight/occupancy sensing. One per luminaire, integrally mounted.

**WLC(AWNR-WH)**
**Athena Wireless Node**

**WLC(FCJS0)**
**PowPak Wireless Fixture Control**

**FC-SENSOR**
**PowPak Occupancy/Daylight Sensor**

**WLC(VDO)**
**Vive Integral Wireless Fixture Control**

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