# 4CS LED
## 4″ Compact Cylinder – Square

**Williams**®

8-5/16″

2-11/16″
4-1/4″

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT   Low UGR   TwistLock™

**ORDERING EXAMPLE:** 4CS - 08 - L20/835 - RDB - OPTIONS - WHT - CONTROL/DIM - UNV - LW - WH - TRIM OPTIONS - CM

— HOUSING — | — TRIM — | MOUNT.

## HOUSING

| SERIES | HEIGHT | LUMENS [1] | CRI | CCT | REMOTE | OPTIONS | HOUSING FINISH [2] |
|---|---|---|---|---|---|---|---|
| 4CS | 08  8″ | L5  500lm | 8  80 | 27  2700K | RDB  Remote mount control/driver box, galvanized steel [3] | *See page 3 for EMERGENCY BATTERY OPTIONS.* | ALUM  Silver sparkle aluminum |
| | | L7  700lm | 9  90 | 30  3000K | | | BLK  Textured black |
| | | L9  900lm | | 35  3500K | | | BRZ  Textured bronze |
| | | L12  1,200lm | | 40  4000K | | | NKL  Textured nickel |
| | | L15  1,500lm | | 50  5000K | | | SLV  Textured silver |
| | | L20  2,000lm | | | | | WHT  Textured white |
| | | L25  2,500lm | | | | | |

### CONTROL
*See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.*
**–** None
**AVI-LVFA** Avi-on wireless fixture control [4]
**AWNR** Lutron Athena wireless node integral fixture control, RF only [5]

### DRIVER
*See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.*
**DIM** Dimming driver, 0-10V
**DIM1** 1% Dimming driver, 0-10V
**DA** Driver with 12V auxiliary power, without external dimming wires [6]

### VOLTAGE
**UNV** 120-277V
**347** 347V [7]

## TRIM

| TRIM TYPE | DISTRIBUTION [8] | REFLECTOR FINISH [9] | | TRIM OPTIONS |
|---|---|---|---|---|

**TRIM TYPE**
**L** Flush lens
**O** Open reflector
**R** Regressed lens

**DISTRIBUTION [8]**
**W** 50° Wide
**M** 30° Medium
**N** 20° Narrow [10]
**S** 14° Narrow spot [11]

**REFLECTOR FINISH [9]**

**Open Trim Types**
**CS** Clear semi-specular anodize
**SG** Satin-glow anodize
**GD** Gold anodize
**CG** Champagne gold anodize
**PW** Pewter anodize
**SPC** Clear specular anodize
**RG** Rose gold anodize

**Lens Trim Types**
**CS** Clear semi-specular powder coat
**WH** White texture powder coat
**BL** Black texture powder coat
**BZ** Bronze texture powder coat
**NK** Nickel texture powder coat
**SV** Silver texture powder coat
**AL** Silver sparkle aluminum

**TRIM OPTIONS**
**AD** Diffuse acrylic lens [12]
**PD** Diffuse 1/8″ polycarbonate lens [13]

## MOUNTING

**MOUNTING TYPE [14]**

**CM__** Adjustable aircraft dual cable mount, 24″, 48″, 96″, or 144″ only, must specify. Example: 24″ cable = **CM24** [15]
**PM__** Pendant mount. Example: 24″ pendant = **PM24** [16]
**PC__** Power cord mount. Example: 24″ cord = **PC24** [17]
**SM** TwistLock surface mount to octagonal J-box
**WM** Wall mount

## NOTES

[1] Lumen output based on L Trim Type, W Distribution and WH Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
[2] See page 4 for HOUSING FINISH DETAILS.
[3] Painted driver box available, specify RDB/BLK or RDB/WHT.
[4] DA Driver only. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
[5] DA Driver only.
[6] Avi-on and Lutron Athena Controls only.
[7] Not available with EM batteries, DA, or DMX drivers.
[8] Beam angle based on L Trim Type and WH Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
[9] See page 4 for REFLECTOR FINISH DETAILS.

[10] Not available with L25 lumen package.
[11] Not available with L20 or L25 lumen packages, or 950 CRI/CCT.
[12] Not available with O Trim Type. W Distribution only.
[13] Not available with O Trim Type. W Distribution only.
[14] See page 4 for MOUNTING DETAILS.
[15] Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.
[16] Specify length in 1″ increments, minimum 6″. Canopy and pendant match fixture housing color unless specified otherwise.
[17] 48″ and 96″ lengths available. Canopy painted white unless specified otherwise. Must specify cord. See page 4 for CORD OPTIONS.

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Cylinders
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# 4CS LED
## 4" Compact Cylinder – Square

## FEATURES

- Engineered to deliver great performance in a sleek, space-saving design
- Parallel the performance and style of the Williams downlight collection
- Precision illumination with 14° narrow spot to 50° wide optics
- Complement the architectural elements of any space with a multitude of housing, trim and cord finishes
- Limitless application opportunities via pendant, cable, power cord, wall and ceiling mounts
- Ensure a simple and secure installation with TwistLock™ surface mount technology
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available

## SPECIFICATIONS

- HOUSING – Extruded aluminum with die-cast aluminum accent ring.
- FINISH – Polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- OPEN REFLECTOR – Low-iridescent anodized aluminum with top diffuser. Clear semi-specular finish standard.
- LENSED TRIM – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- ELECTRICAL – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90 = 49,000 hours. Estimated L70 = 179,000 hours.
- MOUNTING – Surface, cable, pendant, power cord or wall mount. Indoor applications only. Control, driver, and EM battery installed in remote mount box.
- LISTINGS –
  - cCSAus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for dry and damp locations.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

## FIXTURE PERFORMANCE DATA

| DISTRIBUTION | | FLUSH LENS TRIM TYPE | | | OPEN REFLECTOR TRIM TYPE | | | REGRESSED LENS TRIM TYPE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
| L5 | W | 526 | 6.6 | 80 | 381 | 7.2 | 53 | 530 | 6.5 | 82 |
| L5 | M | 528 | 6.6 | 80 | 361 | 7.2 | 50 | 520 | 6.6 | 79 |
| L5 | N | 511 | 6.5 | 79 | 372 | 7.2 | 52 | 511 | 6.5 | 79 |
| L5 | S | 607 | 7.8 | 78 | 435 | 7.8 | 56 | 609 | 7.8 | 78 |
| L7 | W | 739 | 8.5 | 87 | 535 | 9.3 | 58 | 745 | 8.5 | 88 |
| L7 | M | 742 | 8.5 | 87 | 507 | 9.3 | 55 | 731 | 8.5 | 86 |
| L7 | N | 718 | 8.5 | 84 | 523 | 9.3 | 56 | 718 | 8.5 | 84 |
| L7 | S | 848 | 11.2 | 76 | 607 | 11.2 | 54 | 850 | 11.2 | 76 |
| L9 | W | 947 | 10.5 | 90 | 686 | 11.4 | 60 | 954 | 10.5 | 91 |
| L9 | M | 950 | 10.5 | 90 | 650 | 11.4 | 57 | 936 | 10.5 | 89 |
| L9 | N | 920 | 10.5 | 88 | 670 | 11.4 | 59 | 920 | 10.5 | 88 |
| L9 | S | 1085 | 14.1 | 77 | 777 | 14.1 | 55 | 1089 | 14.1 | 77 |
| L12 | W | 1292 | 14.0 | 92 | 936 | 15.3 | 61 | 1302 | 14.0 | 93 |
| L12 | M | 1296 | 14.0 | 93 | 886 | 15.3 | 58 | 1277 | 14.0 | 91 |
| L12 | N | 1254 | 14.0 | 90 | 914 | 15.3 | 60 | 1255 | 14.0 | 90 |
| L12 | S | 1440 | 20.4 | 71 | 1031 | 20.4 | 51 | 1445 | 20.4 | 71 |
| L15 | W | 1602 | 17.3 | 93 | 1160 | 17.3 | 67 | 1614 | 17.3 | 93 |
| L15 | M | 1607 | 17.3 | 93 | 1099 | 17.3 | 64 | 1583 | 17.3 | 92 |
| L15 | N | 1555 | 17.3 | 90 | 1133 | 17.3 | 65 | 1556 | 17.3 | 90 |
| L15 | S | 1783 | 26.7 | 67 | 1276 | 26.7 | 48 | 1789 | 26.6 | 67 |
| L20 | W | 2104 | 23.4 | 90 | 1523 | 25.6 | 59 | 2119 | 23.4 | 91 |
| L20 | M | 2110 | 23.4 | 90 | 1443 | 25.6 | 56 | 2079 | 23.4 | 89 |
| L20 | N | 2042 | 23.4 | 87 | 1488 | 25.6 | 58 | 2043 | 23.4 | 87 |
| L20 | S | – | – | – | – | – | – | – | – | – |
| L25 | W | 2528 | 29.5 | 86 | 2155 | 32.2 | 67 | 2547 | 29.4 | 87 |
| L25 | M | 2536 | 29.5 | 86 | 1734 | 32.2 | 54 | 2498 | 29.5 | 85 |
| L25 | N | – | – | – | – | – | – | – | – | – |
| L25 | S | – | – | – | – | – | – | – | – | – |

### MULTIPLIER TABLES

#### COLOR TEMPERATURE

| | CCT | CONVERSION FACTOR |
|---|---|---|
| 80 CRI | 2700K | 0.92 |
| 80 CRI | 3000K | 0.98 |
| 80 CRI | 3500K | 1.00 |
| 80 CRI | 4000K | 1.01 |
| 80 CRI | 5000K | 1.02 |
| 90 CRI | 2700K | 0.76 |
| 90 CRI | 3000K | 0.79 |
| 90 CRI | 3500K | 0.82 |
| 90 CRI | 4000K | 0.84 |
| 90 CRI | 5000K | 0.88 |

#### TRIM OPTIONS

| CATALOG NUMBER | CONVERSION FACTOR |
|---|---|
| AD | 0.85 |
| PD | 0.85 |

#### REFLECTOR FINISH

| | CATALOG NUMBER | CONVERSION FACTOR |
|---|---|---|
| O TRIM | CS | 1.00 |
| O TRIM | SG [1] | 0.92 |
| O TRIM | GD | 0.93 |
| O TRIM | CG | 0.96 |
| O TRIM | PW | 0.86 |
| O TRIM | SPC | 1.02 |
| O TRIM | RG | 0.88 |
| R TRIM | WH | 1.00 |
| R TRIM | CS [1] | 0.98 |
| R TRIM | BL [1] | 0.79 |
| R TRIM | BZ [1] | 0.76 |
| R TRIM | NK [1] | 0.81 |
| R TRIM | SV [1] | 0.81 |
| R TRIM | AL [1] | 0.86 |

1 Distribution will also be affected, consult factory.

### BEAM ANGLE

| | TRIM TYPE | | |
|---|---|---|---|
| | FLUSH | OPEN | REGRESSED |
| W | 50° | 50° | 55° |
| M | 30° | 47° | 30° |
| N | 20° | 47° | 20° |
| S | 14° | 43° | 14° |

- Photometrics tested in accordance with IESNA LM-79. Results based on WH (L and R Trim Types) or CS (O Trim Type) Reflector Finish, W Distribution, 80 CRI/3500K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

## PHOTOMETRY

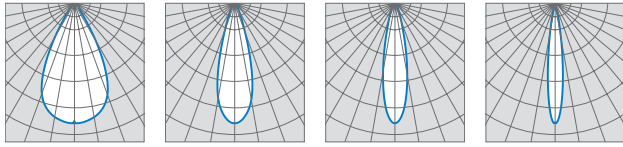**4CS-08-L15/835-DIM-UNV-LW-WH** Total Luminaire Output: 1602 lumens; 17.3 Watts | Efficacy: 92.5 lm/W | 80 CRI; 3500K CCT
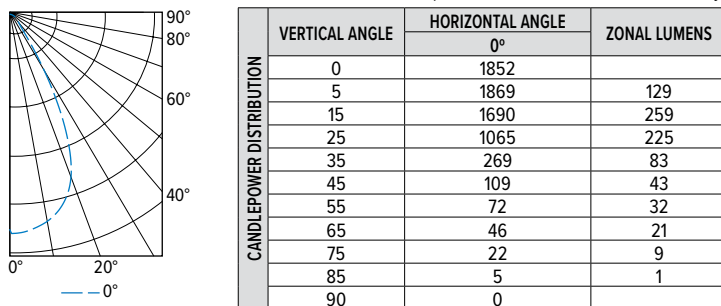


| VERTICAL ANGLE | HORIZONTAL ANGLE 0° | ZONAL LUMENS |
|---|---|---|
| 0 | 1852 | |
| 5 | 1869 | 129 |
| 15 | 1690 | 259 |
| 25 | 1065 | 225 |
| 35 | 269 | 83 |
| 45 | 109 | 43 |
| 55 | 72 | 32 |
| 65 | 46 | 21 |
| 75 | 22 | 9 |
| 85 | 5 | 1 |
| 90 | 0 | |

| ZONE | LUMENS | % FIXTURE |
|---|---|---|
| 0 - 40 | 1361 | 85 |
| 0 - 60 | 1526 | 95 |
| 0 - 90 | 1601 | 100 |
| 0-180 | 1602 | 100 |

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Cylinders
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# 4CS LED
## 4″ Compact Cylinder – Square

**FLUSH**

50°    30°    20°    14°

**OPEN**

50°    47°    47°    43°

**REGRESSED**

55°    30°    20°    14°
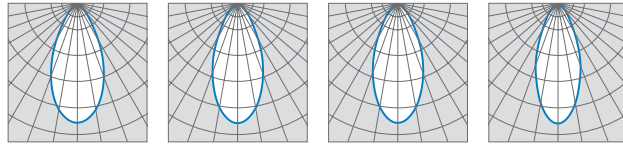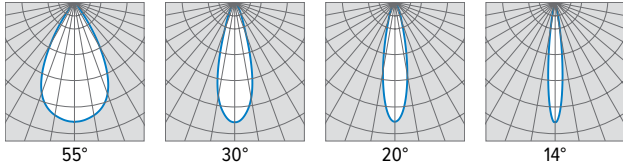
## ADDITIONAL CONTROL/DRIVER OPTIONS

| DRIVER/ CONTROL | DESCRIPTION | RDB DETAILS BY LUMEN STOP | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | L5 | L7 | L9 | L12 | L15 | L20 | L25 | w/EM |
| DIM | Dimming driver prewired for 0-10V low voltage applications | R\|S | R\|S | R\|S | R\|S | R\|S | R\|S | R\|S | R\|L |
| DIM1 | 1% dimming driver prewired for 0-10V low voltage applications | R\|S | R\|S | R\|S | R\|S | R\|S | R\|S | R\|S | R\|L |
| DIM LINE | Line voltage dimming driver (TRIAC and ELV compatible at 120V only) | — | — | R\|S | R\|S | R\|S | R\|S | R\|S | R\|L |
| DMX | 0.1% dimming driver for DMX controls | R\|M | R\|M | R\|M | R\|M | R\|M | R\|M | R\|M | R\|L |
| DALI | DALI dimming driver | R\|M | R\|M | R\|M | R\|M | R\|M | R\|M | R\|M | R\|L |
| LDE1 | Lutron Hi-lume 1% EcoSystem dimming LED driver | R\|M | R\|M | R\|M | R\|M | R\|M | R\|M | R\|M | R\|L |
| AVI-LVFA/DA | Avi-on wireless fixture control for use with driver with 12V auxiliary power | R\|S | R\|S | R\|S | R\|S | R\|S | R\|S | R\|S | R\|L |
| AWNR/DA | Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power | R\|S | R\|S | R\|S | R\|S | R\|S | R\|S | R\|S | R\|L |

### REMOTE MOUNT DETAILS
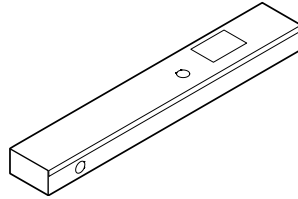Max remote distance is 50′ including suspension. Must be room-side accessible for maintenance.

Hex box, flex, & low-voltage conductors (by others)
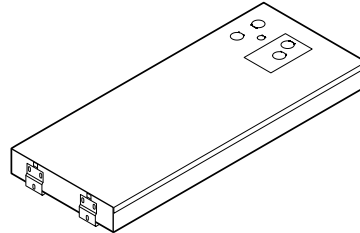
Medium remote box shown
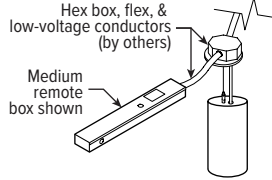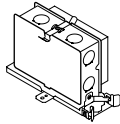
**SMALL**

Snap-in Junction Box
6-1/2″ x 3″ x 4-1/2″

**MEDIUM**

3-1/2″ x 24″ x 2″

**LARGE**
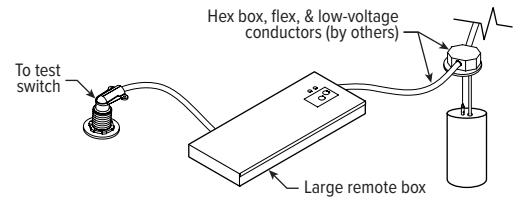
9″ x 24″ x 2″

| REMOTE MOUNT KEY | |
|---|---|
| R\|S | RDB Required, Small Box |
| R\|M | RDB Required, Medium Box |
| R\|L | RDB Required, Large Box |

## EMERGENCY BATTERY OPTIONS

Max remote distance 50′, including suspension length. Large remote box provided. Specify CEC in the option code when California Energy Commission regulations are required.
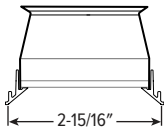
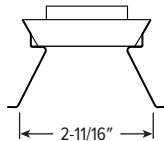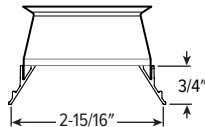| CATALOG NUMBER | DESCRIPTION |
|---|---|
| EM/7WRM/RTS | Remote mount 7-watt emergency battery with regressed test switch |
| EM/10WRM/RTS | Remote mount 10-watt emergency battery with regressed test switch |
| EM/12WRM/RTS | Remote mount 12-watt emergency battery with regressed test switch [1] |

[1] Not available when CEC regulations are required.

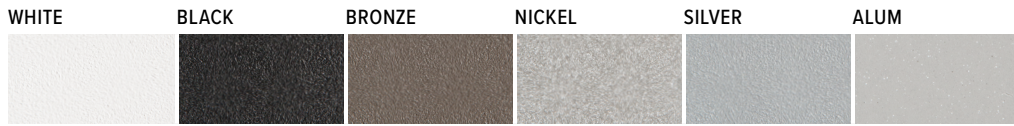Hex box, flex, & low-voltage conductors (by others)

To test switch

Large remote box

## TRIM TYPE DETAILS

**FLUSH**

2-15/16″

**OPEN**

2-11/16″

**REGRESSED**

2-15/16″   3/4″

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Cylinders
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# 4CS LED
## 4" Compact Cylinder – Square

## HOUSING FINISH DETAILS

| WHITE | BLACK | BRONZE | NICKEL | SILVER | ALUM |
|---|---|---|---|---|---|

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

## REFLECTOR FINISH DETAILS

*Smooth Finish*

| SPC | SG | PW | GD | CG | RG | CS | AL |
|---|---|---|---|---|---|---|---|

*Textured Finish*

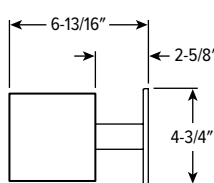| WH | BL | BZ | NK | SV |
|---|---|---|---|---|

## MOUNTING DETAILS

### PENDANT MOUNT (PM__)

Provided with:
- 45° Swivel canopy
- 3/8" IPS Threaded stem
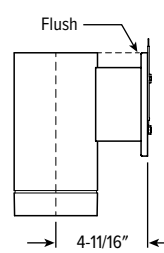- Specify length of stem, 6" minimum, 24" default length
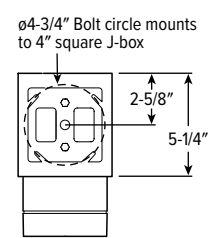
### WALL MOUNT (WM)

**TOP VIEW**
6-13/16"
2-5/8"

**SIDE VIEW**
Flush
4-11/16"

**BACK VIEW**
ø4-3/4" Bolt circle mounts to 4" square J-box
2-5/8"
5-1/4"
4-3/4"

### SURFACE MOUNT (SM)

**TwistLock™**

Simple lift-and-twist mounting secures fixture to J-box.

Provided with surface mount adaptor with pigtail

### CABLE MOUNT (CM__)

Provided with:
- Dual adjustable length aircraft cables, must specify length in 24", 48", 96", or 144" inches.
- 18-gauge cord in choice of 9 colors, see Cord Options for ordering info.
- One 5" canopy
- T-bar clip with 1/4-20 stud
- Hard ceiling anchor provided by others

### POWER CORD MOUNT (PC)
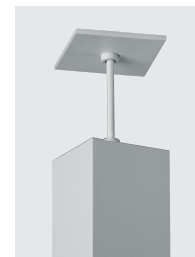
Provided with:
- 18-gauge cord, see Cord Options for ordering info.
- One 5" canopy
- Power cord mounting adaptor

## CORD OPTIONS

Must specify cord when cable and power cord mounting.

| ORDERING EXAMPLE: S2438/W | | | | |
|---|---|---|---|---|
| CORD TYPE | LENGTH | # CONDUCTORS | WIRE SIZE | COLOR |
| **S** Straight | **24** 24"<br>**48** 48"<br>**96** 96" | **3** 3<br>**4** 4<br>**5** 5<br>**6** 6 | **8** 18-gauge | **Standard**<br>/W White<br>/B Black<br><br>**Braided** [1]<br>/WH White<br>/BL Black<br>/BR Brass<br>/AE Aegean Blue<br>/RE Red<br>/SV Silver<br>/GU Gunmetal<br>/NK Nickel<br>/GR Gray |

### COLOR DETAILS

Additional colors may be available, consult factory.

| White | Black | Brass | Aegean Blue | Red |
|---|---|---|---|---|

| Silver | Gunmetal | Nickel | Gray |
|---|---|---|---|

[1] (5) conductors cord only.

# 4CS LED
## 4″ Compact Cylinder – Square

## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### FEATURES

**Simple**

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

**Scalable**

- Virtually unlimited network size
- Spans small offices to large warehouses
- Flexible control strategies

**Secure**

- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.
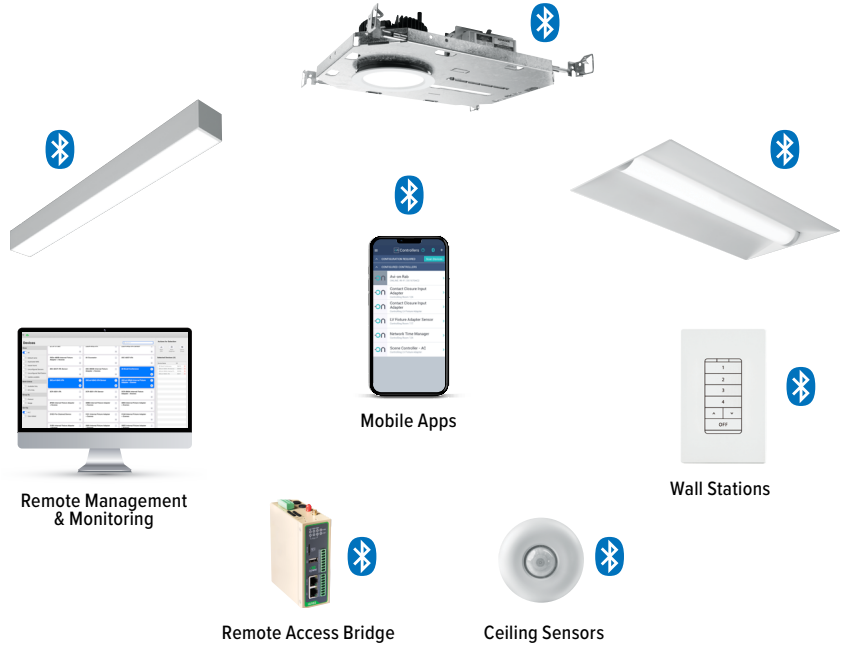
Commissioning
Mobile App

Zone Scanner
Web App

Commissioning
Pro App

### SYSTEM COMPONENTS

Remote Management
& Monitoring

Mobile Apps

Wall Stations

Remote Access Bridge

Ceiling Sensors

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## ACCESSORIES

| WALL STATIONS | |
| --- | --- |
| **AVI-2401AC** | Scene controller - numbered 1-4, 120-277VAC |
| **AVI-2402BAT** | Scene controller - numbered 1-4, battery powered |
| **AVI-2401AC-2** | Dimmer with presets - percentages, 120-277VAC |
| **AVI-2402BAT-2** | Dimmer with presets - percentages, battery powered |
| **AVI-2401AC-3** | On/off/dimming, 120-277VAC |
| **AVI-2402BAT-3** | On/off/dimming, battery powered |

| NETWORK | |
| --- | --- |
| **AVI-RAB-LTE** | Remote access bridge |
| **AVI-KIT-NTM** | Network time manager with battery backup |

| CEILING MOUNT SENSORS | |
| --- | --- |
| **AVI-KIT-SEN-DUCM** | PIR motion and ultrasonic sensor kit |
| **AVI-KIT-SEN-ICM** | PIR motion and photocell sensor kit |

For load controllers and additional accessory info, see hew.com/avi-on

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Cylinders
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