# 2AS PoE | tunable WHITE
## 2″ Adjustable Downlight – Square

**Williams**

5-13/16″

2-7/16″

13-1/8″

1/2″ min
13/16″ max

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT · CCEA Approved · WET/CC

**NEW CONSTRUCTION AND REMODEL**

## FEATURES

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls

## SPECIFICATIONS

- **HOUSING** – Die-cast aluminum spun and stamped articulating mechanism with forged aluminum heat sink. Mounting clips allow for ceiling thickness from 1/2″ – 13/16″.
- **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. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours. Low-voltage DC fixture, to be fed by Class 2 power supply. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- **MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. N and R mounting types for use in non-fire rated installations only. Minimum 17″ O.C. marked spacing required for P11 and P13 static white and P7 and P9 tunable white lumen packages when specified with R Mounting Type. Nodes cannot be mounted above hard ceilings
- **LISTINGS** –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and damp locations. LED light assembly conforms to UL 2108 for remote installation.
  - Suitable for wet location under covered ceiling when specified with WET/CC option.
  - IC-rated for direct contact with insulation when specified with I Mounting Type.
  - City of Chicago Environmental Air approved when specified with CP option.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.
  - 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.

## SYSTEM REQUIREMENTS

- PoE-ready luminaires are connected to building power systems through network integration and require other components for complete PoE lighting system
- For additional PoE info, see hew.com/poe

**ORDERING EXAMPLE:** 2AS - L15/835 - OPTIONS - POE PR - LW - OF - CS - TRIM OPTIONS - N - F1

— HOUSING — | — TRIM — | MOUNT.

### HOUSING

| SERIES | LUMENS [1] | | CRI | | CCT | | OPTIONS | | CONTROL [2] | |
|--------|------------|--|-----|--|-----|--|---------|--|-------------|--|
| 2AS | P5 | 500lm | 8 | 80 [3] | 27 | 2700K | ATH | Airtight construction | POE PR | Power over Ethernet-ready |
| | P7 | 700lm | 9 | 90 [4] | 30 | 3000K | CP | Chicago plenum (CCEA) [6] | | |
| | P9 | 900lm | | | 35 | 3500K | | | | |
| | P11 | 1,100lm | | | 40 | 4000K | | | | |
| | P13 | 1,300lm | | | 50 | 5000K | | | | |
| | | | | | TW | Tunable white (90 CRI, 2700K-5000K) [5] | | | | |

### TRIM [7]

| TRIM TYPE | | DISTRIBUTION [8] | | FLANGE TYPE | | REFLECTOR FINISH | | TRIM OPTIONS | |
|-----------|--|------------------|--|-------------|--|------------------|--|--------------|--|
| L | Flush lens | W | 35° Wide | OF | 1/2″ standard flange | CS | Clear semi-specular powder coat | AD | Diffuse acrylic lens [11] |
| R | Regressed lens | M | 20° Medium | ZF | Zero-flange mud-in [10] | WH | White texture powder coat | PD | Diffuse 1/8″ polycarbonate lens |
| | | N | 15° Narrow [9] | | | BL | Black texture powder coat | WET/CC | Wet location, covered ceiling listed [12] |
| | | | | | | | | AM | Anti-microbial [13] |

### MOUNTING

**MOUNTING TYPE [14]**

- **N** Open pan for new construction
- **I** IC-rated enclosure for new construction [16]
- **R** Remodel kit [17]

**MOUNTING HARDWARE [15]**

- **F1** Integral 2-position fixed pan bracket, universal bar hanger included [18]
- **BA1** Adjustable butterfly pan bracket, bar hanger not included [19]
- **CA1** Adjustable caterpillar pan bracket, universal bar hanger included [20]

## NOTES

[1] Lumen output based on L trim type, W distribution and WH finish, 3500K/80 CRI for single CCT and 4000K/90 CRI for TW. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA

[2] For additional PoE connection details, consult factory.

[3] Not available with tunable white.

[4] Extended lead times may apply for single CCT. Consult factory for availability.

[5] P9 lumen package max with W and M Distributions. P7 lumen package max with N Distribution.

[6] I Mounting Type required.

[7] Trim ships separately.

[8] Beam angle based on static white, L Trim Type and WH Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.

[9] P11 static white and P9 tunable white lumen packages max when specified with N and R Mounting Types. P7 static white lumen package max when specified with I Mounting Type. Tunable White not available with I Mounting Type.

[10] For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 3 for TRIM TYPE DETAILS. Not available with ATH or WET/CC options.

[11] W distribution only.

[12] Not available with PD trim option.

[13] WH and BL Reflector Finishes only.

[14] Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.

[15] Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.

[16] P9 static white and P5 tunable white lumen packages max.

[17] Also used in new construction sheetrock ceilings. Pan-less installation.

[18] N and I Mounting Types only. I Mounting requires external brackets.

[19] N Mounting Type only.

[20] N Mounting Type only.

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# 2AS PoE | tunable WHITE
## 2″ Adjustable Downlight – Square

## FIXTURE PERFORMANCE DATA

### STATIC WHITE

| DISTRIBUTION | | WATTAGE | FLUSH LENS TRIM TYPE | | REGRESSED LENS TRIM TYPE | |
|---|---|---|---|---|---|---|
| | | | DELIVERED LUMENS | EFFICACY (lm/W) | DELIVERED LUMENS | EFFICACY (lm/W) |
| P5 | W | 5.4 | 503 | 93 | 480 | 89 |
| | M | 5.4 | 408 | 75 | 372 | 69 |
| | N | 5.4 | 463 | 86 | 449 | 83 |
| P7 | W | 7.6 | 661 | 87 | 631 | 83 |
| | M | 7.6 | 535 | 70 | 488 | 64 |
| | N | 7.6 | 608 | 80 | 589 | 78 |
| P9 | W | 11.1 | 885 | 80 | 845 | 76 |
| | M | 11.1 | 717 | 65 | 654 | 59 |
| | N | 11.1 | 814 | 73 | 789 | 71 |
| P11 | W | 15.3 | 1081 | 71 | 1031 | 67 |
| | M | 15.3 | 875 | 57 | 798 | 52 |
| | N | 15.3 | 994 | 65 | 913 | 60 |
| P13 | W | 22.7 | 1304 | 57 | 1244 | 55 |
| | M | 22.7 | 1056 | 47 | 963 | 42 |
| | N | – | – | – | – | – |

### TUNABLE WHITE

| DISTRIBUTION | | WATTAGE | FLUSH LENS TRIM TYPE | | REGRESSED LENS TRIM TYPE | |
|---|---|---|---|---|---|---|
| | | | DELIVERED LUMENS | EFFICACY (lm/W) | DELIVERED LUMENS | EFFICACY (lm/W) |
| P5 | W | 10.4 | 503 | 48 | 480 | 46 |
| | M | 10.4 | 464 | 45 | 423 | 41 |
| | N | 10.4 | 448 | 43 | 434 | 42 |
| P7 | W | 15.9 | 693 | 44 | 662 | 42 |
| | M | 15.9 | 639 | 40 | 583 | 37 |
| | N | 15.9 | 616 | 39 | 598 | 38 |
| P9 | W | 21.2 | 809 | 38 | 772 | 36 |
| | M | 21.2 | 745 | 35 | 680 | 32 |
| | N | – | – | – | – | – |
| P11 | W | – | – | – | – | – |
| | M | – | – | – | – | – |
| | N | – | – | – | – | – |
| P13 | W | – | – | – | – | – |
| | M | – | – | – | – | – |
| | N | – | – | – | – | – |

## MULTIPLIER TABLES

### COLOR TEMPERATURE

| | CCT | LUMENS | |
|---|---|---|---|
| | | STANDARD | TUNABLE WHITE |
| 80 CRI | 2700K | 0.92 | – |
| | 3000K | 0.98 | – |
| | 3500K | 1.00 | – |
| | 4000K | 1.01 | – |
| | 5000K | 1.02 | – |
| 90 CRI | 2700K | 0.76 | 0.87 |
| | 3000K | 0.79 | 0.96 |
| | 3500K | 0.82 | 1.02 |
| | 4000K | 0.84 | 1.00 |
| | 5000K | 0.88 | 1.02 |

### REFLECTOR FINISH

| CATALOG NUMBER | CONVERSION FACTOR |
|---|---|
| WH | 1.00 |
| CS | 0.98 |
| BL | 0.79 |

### TRIM OPTIONS

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

## BEAM ANGLE

| | TRIM TYPE | | | |
|---|---|---|---|---|
| | STATIC WHITE | | TUNABLE WHITE | |
| | FLUSH | REGRESSED | FLUSH | REGRESSED |
| W | 35° | 35° | 40° | 40° |
| M | 20° | 20° | 30° | 30° |
| N | 15° | 15° | 20° | 20° |
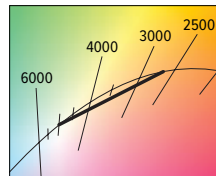


- Photometrics tested in accordance with IESNA LM-79. Results based on L trim type, W distribution, WH finish and 25°C ambient temperature. Static white results based on 80 CRI/3500K CCT. Tunable white results based on 90 CRI/4000K CCT. Actual performance may vary +/-5%
- Wattage and efficacy data shown do not account for node losses.
- Beam angle based on static white, L Trim Type and WH Reflector Finish.
- Use multiplier tables to calculate additional options.

## PHOTOMETRY

**2AS-P11/835-POE PR-LW-OF-WH 0° TILT** Total Luminaire Output: 1081 lumens; 15.3 Watts | Efficacy: 71 lm/W | 80 CRI; 3500K CCT



— -0°
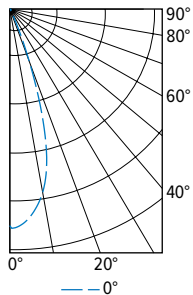
| VERTICAL ANGLE | HORIZONTAL ANGLE 0º | ZONAL LUMENS |
|---|---|---|
| 0 | 3234 | |
| 5 | 3139 | 284 |
| 15 | 1972 | 529 |
| 25 | 164 | 173 |
| 35 | 27 | 25 |
| 45 | 22 | 19 |
| 55 | 22 | 20 |
| 65 | 19 | 18 |
| 75 | 11 | 11 |
| 85 | 3 | 3 |
| 90 | 0 | |

| | ZONE | LUMENS | % FIXTURE |
|---|---|---|---|
| LUMEN SUMMARY | 0 - 40 | 1010 | 93 |
| | 0 - 60 | 1048 | 97 |
| | 0 - 90 | 1081 | 100 |
| | 0-180 | 1081 | 100 |

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# 2AS PoE | tunable WHITE
## 2″ Adjustable Downlight – Square

**WIDE**

| WIDE 0° TILT | 45° TILT |
|---|---|

**MEDIUM**

| MEDIUM 0° TILT | 45° TILT |
|---|---|

**NARROW**

| NARROW 0° TILT | 45° TILT |
|---|---|

FLUSH

35° | 20° | 15°

REGRESSED

35° | 20° | 15°
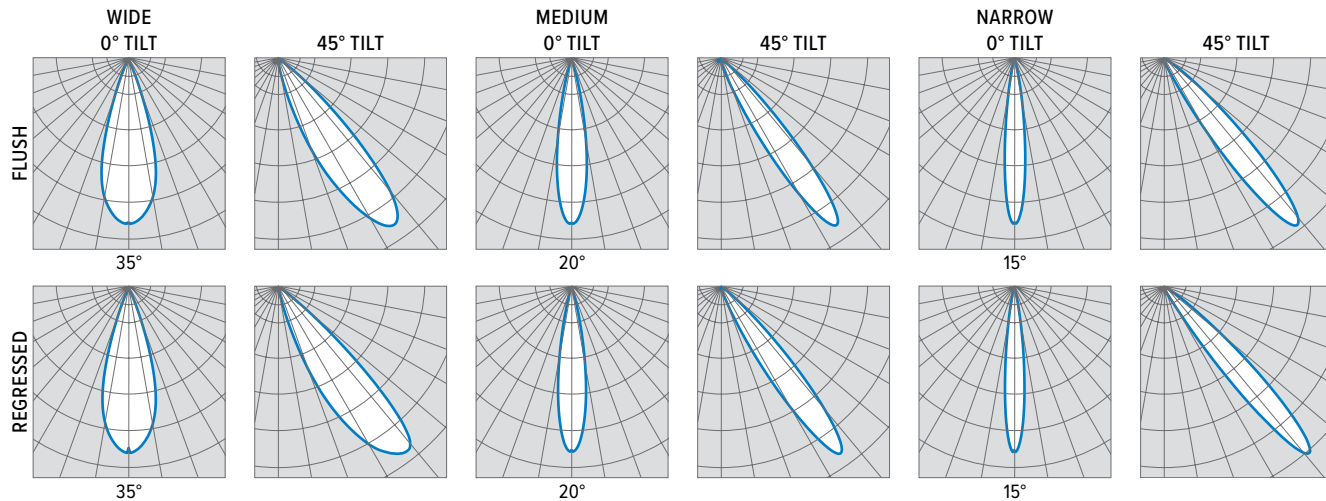
## TRIM TYPE DETAILS

### 1/2″ STANDARD FLANGE TYPE

FLUSH — 1/8″ — 2-7/16″ — 3-1/2″

REGRESSED — 1/8″ — 2-11/16″

Ceiling Cutout: 3″

### ZERO-FLANGE MUD-IN

FLUSH — 2-15/16″ — 3-1/16″

REGRESSED — 2-15/16″

Ceiling Cutout: 3-1/2″

MUD FLANGE MOUNTING KIT — 5/8″ — 1/8″ — 6″
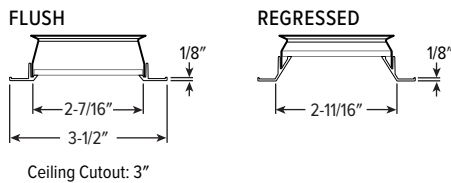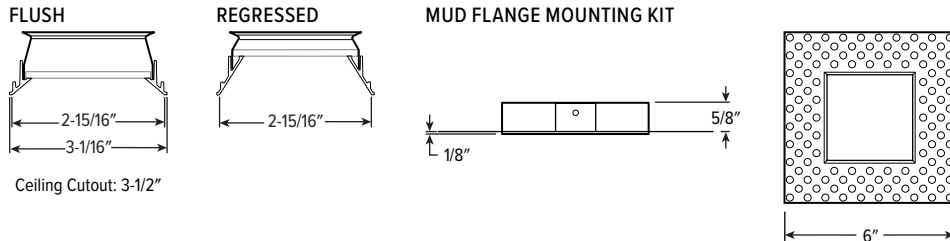
## MOUNTING TYPE DETAILS

NEW CONSTRUCTION — 3-1/16″ — 3″ — 3-1/16″ — 9-1/8″ — 13-1/8″
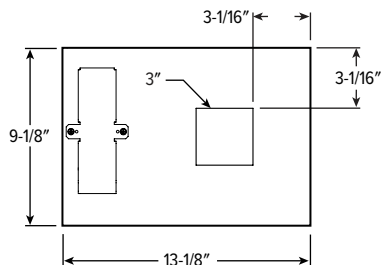
IC-RATED — 11-13/16″ — 6-1/16″ — 12-3/4″ — 9-1/4″ — 6-11/16″ — 3-1/8″ — 3″

REMODEL
Cross Section — 5-13/16″ — 2-7/16″

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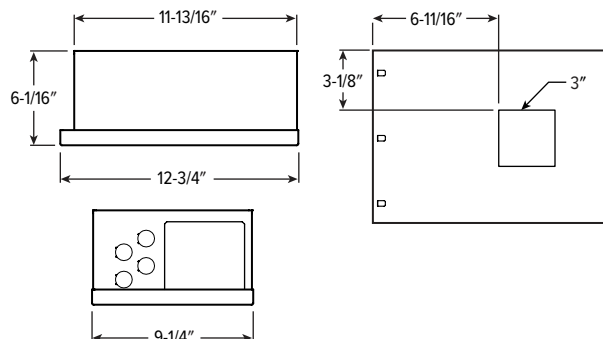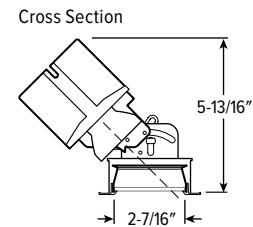
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## MOUNTING HARDWARE DETAILS

**F1** Integral 2-position fixed pan bracket, universal bar hanger included



14″ minimum
24″ maximum

Mounts to t-bar or nailer bar



14″ minimum
24″ maximum
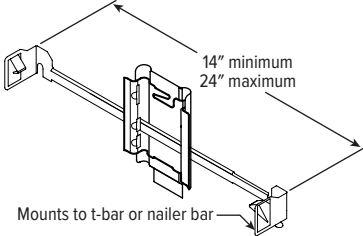
Mounts to t-bar or nailer bar
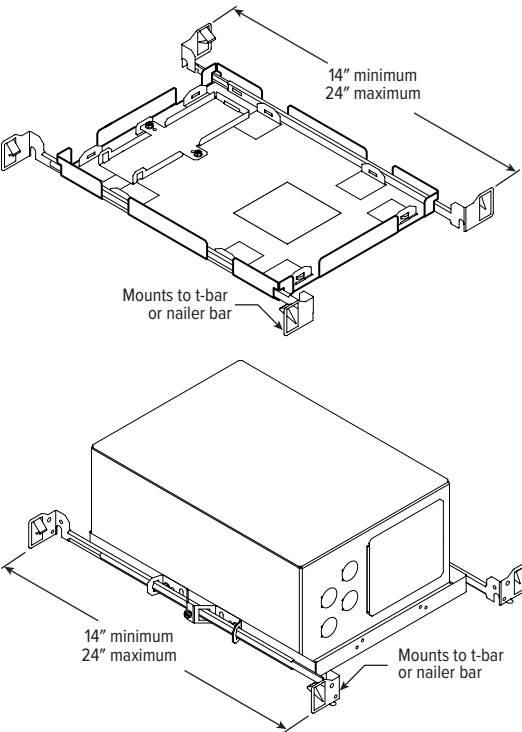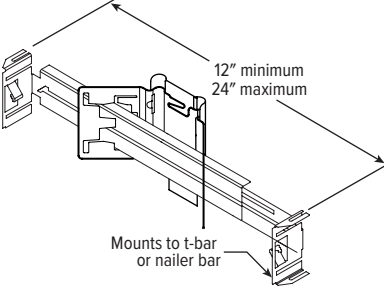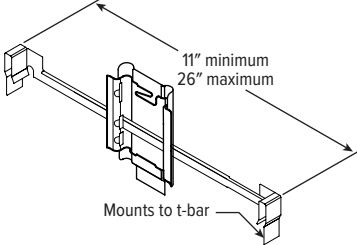
F1 with I Mounting Type

**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)
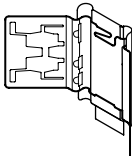


**BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



12″ minimum
24″ maximum

Mounts to t-bar or nailer bar

**CA1** Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



14″ minimum
24″ maximum

Mounts to t-bar or nailer bar

**CA2** Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)



11″ minimum
26″ maximum

Mounts to t-bar

## REFLECTOR FINISH DETAILS

| **CS** Clear semi-specular | **WH** White | **BL** Black |
|---|---|---|
|  |  |  |

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