2AS tunable WHITE
2″ Adjustable Downlight – Square

Williams

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT · *CCEA Approved* · *Low UGR* · *WET/CC*

ORDERING EXAMPLE: 2AS - L9/9TW - OPTIONS - CONTROL/DIM - UNV - LW - OF - CS - TRIM OPTIONS - N - F1

— HOUSING — / — TRIM — / MOUNT.

HOUSING

SERIES	LUMENS [1]	COLOR	OPTIONS	CONTROL	DRIVER	VOLTAGE
2AS	**L5** 500lm **L7** 700lm **L9** 900lm	**9TW** Tunable white (90 CRI, 2700K-5000K)	*See page 3 for EMERGENCY BATTERY OPTIONS.* **ATH** Airtight construction [2] **F** Fuse **CP** Chicago plenum (CCEA) [3]	**–** None **AWNR** Lutron Athena wireless node integral fixture control, RF only [4]	*See page 3 for DRIVER DETAILS.* **DALI** Driver prewired for DALI applications **DIM** Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT **DMX** Driver prewired for DMX applications **LD2** Lutron DALI-2 digital driver, 1% [5]	**UNV** 120-277V

TRIM [6]

TRIM TYPE	DISTRIBUTION	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens **R** Regressed lens	*See page 2 for BEAM ANGLE.* **W** Wide **M** Medium **N** Narrow [7]	**OF** 1/2″ standard flange **ZF** Zero-flange mud-in [8]	**CS** Clear semi-specular powder coat **WH** White texture powder coat **BL** Black texture powder coat	**AD** Diffuse acrylic lens [9] **PD** Diffuse 1/8″ polycarbonate lens **WET/CC** Wet location, covered ceiling listed **AM** Anti-microbial [10]

MOUNTING

MOUNTING TYPE [11]	MOUNTING HARDWARE [12]
N Open pan for new construction [13] **I** IC-rated enclosure for new construction [14]	**F1** Integral 2-position fixed pan bracket, universal bar hanger included [15] **BA1** Adjustable butterfly pan bracket, bar hanger not included [16] **CA1** Adjustable caterpillar pan bracket, universal bar hanger included [17]

Dimensions
5-13/16″
2-7/16″
13-1/8″
1/2″ min 13/16″ max

NOTES

[1] Lumen output based on L Trim Type, W Distribution and WH Reflector Finish, 90 CRI/4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
[2] I Mounting Type required.
[3] I Mounting Type required.
[4] LD2 Driver only.
[5] N Mounting Type only, top access required.
[6] Trim ships separately.
[7] Not available with L9 lumen package or I Mounting Type.
[8] For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for TRIM TYPE DETAILS. Not available with ATH Option.
[9] W Distribution only.
[10] WH and BL Reflector Finishes only.
[11] Mounting Hardware required), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
[12] Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
[13] Top access required.
[14] Top access required. Not available with EM batteries.
[15] I Mounting Type requires external brackets
[16] N Mounting Type only.
[17] N Mounting Type only.

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Downlights
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2AS tunable WHITE
2″ Adjustable Downlight – Square

FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- 2″ aperture is unobtrusive in small scale spaces
- Adjustable aim with 0° - 45° tilt and 360° rotation
- Zero-flange trim options for modern ceiling
- Etched degree markers and directional indicator make it simple to fine-tune the illumination angle
- Die cast trim choices include flush or regressed lens
- Square shape accentuates architectural styles
- Beam angles ranging from 20º narrow to 40º wide for tailored performance
- New construction mounting pan or IC-rated enclosure available
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – Die-cast aluminum spun and stamped articulating mechanism with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. 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 to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours. 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. N Mounting Type for use in non-fire rated installations only. Top access required for driver maintenance.

- LISTINGS –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for 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/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

FIXTURE PERFORMANCE DATA

	DISTRIBUTION	WATTAGE	FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L5	W	15.1	503	33	480	32
L5	M	15.1	464	31	423	28
L5	N	15.1	448	30	434	29
L7	W	19.5	693	36	662	34
L7	M	19.5	639	33	583	30
L7	N	19.5	616	32	598	31
L9	W	24.1	809	34	772	32
L9	M	24.1	745	31	680	28
L9	N	–	–	–	–	–

- Photometrics tested in accordance with IESNA LM-79. Results based on L Trim Type, W Distribution, WH Reflector Finish, 90 CRI/4000K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%
- Beam angle based on L Trim Type and WH Reflector Finish.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.
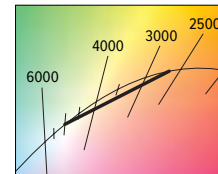
MULTIPLIER TABLES

COLOR TEMPERATURE

CCT	LUMENS	WATTS
2700K	0.87	1.05
3000K	0.96	1.11
3500K	1.02	1.06
4000K	1.00	1.00
5000K	1.02	1.06

BEAM ANGLE

	TRIM TYPE	
	L	R
W	40°	40°
M	30°	30°
N	20°	20°

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

PHOTOMETRY

2AS-L9/9TW-DIM-UNV-LW-OF-WH 0° TILT Total Luminaire Output: 809 lumens; 24.1 Watts | Efficacy: 34 lm/W | 90 CRI; 4000K CCT
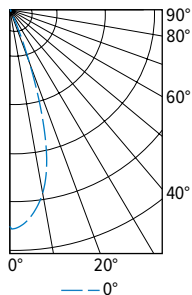
VERTICAL ANGLE	HORIZONTAL ANGLE 0º	ZONAL LUMENS
0	2368	
5	2422	209
15	1331	380
25	455	201
35	17	13
45	3	4
55	1	1
65	1	1
75	0	0
85	0	0
90	0	

ZONE	LUMENS	% FIXTURE
0 - 40	802	99
0 - 60	808	100
0 - 90	809	100
0-180	809	100

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FLUSH (L)

40° W	0° Tilt	40° W	45° Tilt	30° M	0° Tilt	30° M	45° Tilt	20° N	0° Tilt	20° N	45° Tilt

REGRESSED (R)

40° W	0° Tilt	40° W	45° Tilt	30° M	0° Tilt	30° M	45° Tilt	20° N	0° Tilt	20° N	45° Tilt

DRIVER DETAILS

DIM
DIM (Int) +
DIM (CCT) +   Fixture 1
DIM -

DALI
DALI +
DALI -   Fixture 1

DMX
RJ45 Ports
(IN/OUT)   Fixture (Master)

LD2
DA +
DA -   Fixture 1
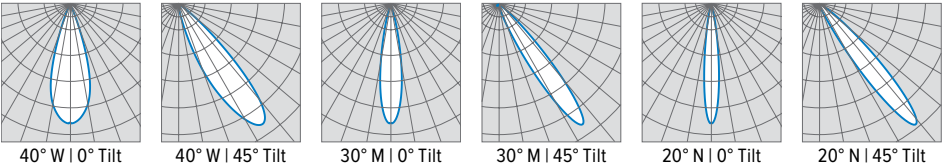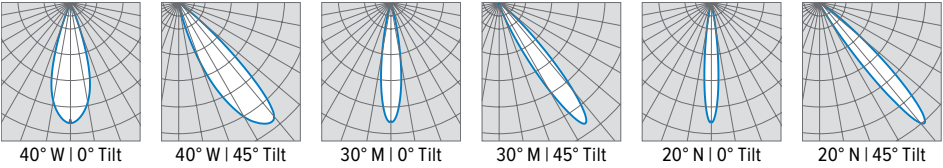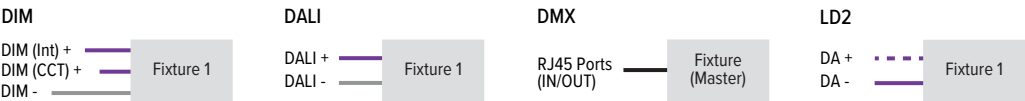
EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION
EM/5W	5-watt emergency battery
EM/7W	7-watt emergency battery
EM/7W/RTS	7-watt emergency battery with regressed test switch [1]
EM/10W	10-watt emergency battery
EM/10W/RTS	10-watt emergency battery with regressed test switch [1]

[1] Not available with WET/CC Trim Option. N Mounting Type only. Top access required.
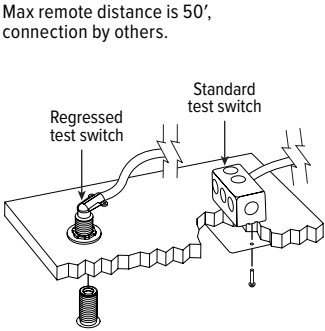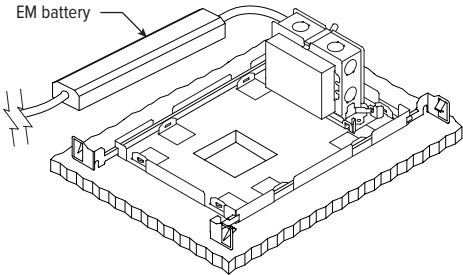
MOUNTING DETAILS
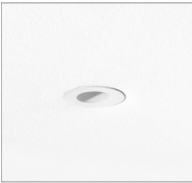
Regressed test switch
ø1-3/4″

Standard test switch
2-3/4″ x 4-1/2″

Max remote distance is 50′, connection by others.

Regressed test switch
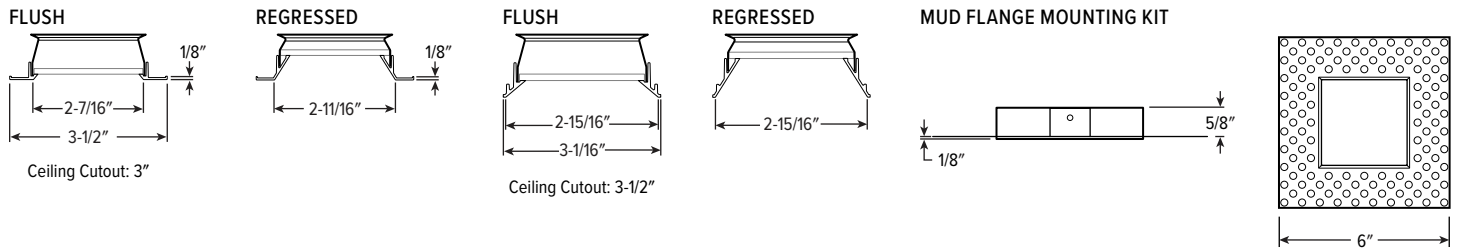
Standard test switch

EM battery

REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

BL
Black

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TRIM TYPE DETAILS

1/2″ STANDARD FLANGE TYPE

FLUSH

1/8″

2-7/16″
3-1/2″

Ceiling Cutout: 3″

REGRESSED

1/8″

2-11/16″

ZERO-FLANGE MUD-IN

FLUSH

2-15/16″
3-1/16″

Ceiling Cutout: 3-1/2″

REGRESSED

2-15/16″

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″

Driver and Junction Box

5-1/4″
4-1/8″
6-15/16″

IC-RATED

11-13/16″
6-1/16″
12-3/4″

6-11/16″
3-1/8″
3″

9-1/4″
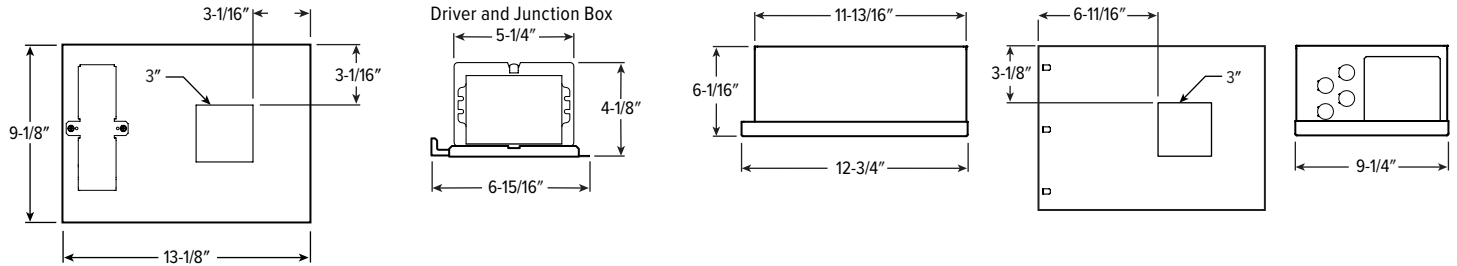
MOUNTING HARDWARE DETAILS

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
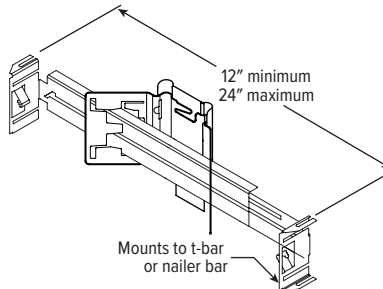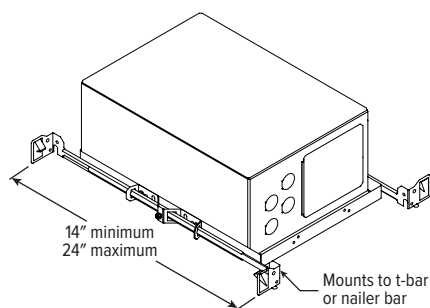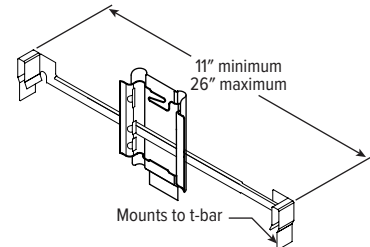
F1 with I Mounting Type
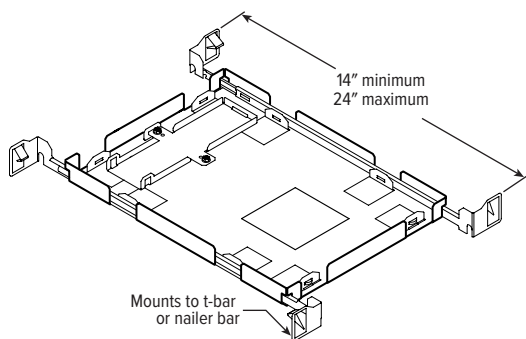
BA1   Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)
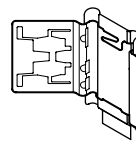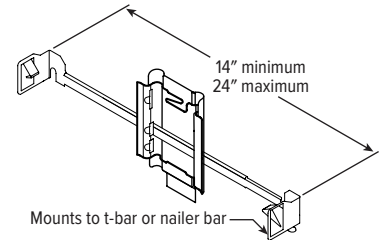
BA2   Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)

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

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