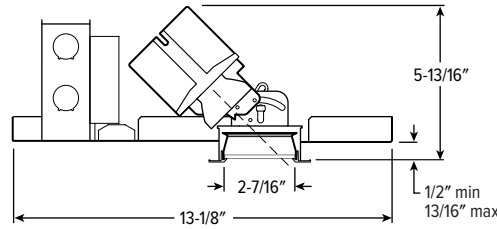
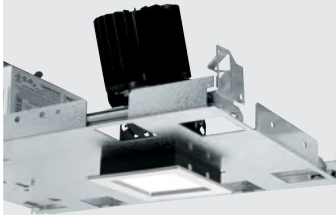


# 2AS tunable WHITE 2" Adjustable Downlight – Square



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

## FEATURES

- Tunable white from 2700K to 5000K CCT, minimum 90 CRI
- 2" aperture is unobtrusive in small scale spaces
- Adjustable aim with 0° - 45° tilt and 360° rotation
- Zero-flange trim options for modern ceiling
- Die cast trim choices include flush or regressed lens

## 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, tempered glass 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.
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

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

## HOUSING

SERIES	LUMENS <sup>[1]</sup>	COLOR	OPTIONS	CONTROL <sup>[2]</sup>	VOLTAGE	
2AS	L5 500lm	9TW Tunable white (90 CRI, 2700K-5000K)	EM/5W 5-watt emergency battery <sup>[3]</sup>	DALI Driver prewired for DALI applications	UNV 120-277V	
	L7 700lm		EM/7W 7-watt emergency battery <sup>[4]</sup>			DIM Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT
	L9 900lm		EM/10W 10-watt emergency battery <sup>[5]</sup>			
			EM/10W/RTS 10-watt emergency battery with regressed test switch <sup>[6]</sup>	DMX Driver prewired for DMX applications		
			ATH Airtight construction	PSQ Lutron T-Series 2-channel tunable white 1%.		
			F Fuse			
			CP Chicago plenum (CCEA) <sup>[7]</sup>			

## TRIM<sup>[8]</sup>

TRIM TYPE	DISTRIBUTION <sup>[9]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 40° Wide	OF 1/2" standard flange	CS Clear semi-specular powder coat	AD Diffuse acrylic lens <sup>[12]</sup>
R Regressed lens	M 30° Medium	ZF Zero-flange mud-in <sup>[11]</sup>	WH White texture powder coat	PD Diffuse 1/8" polycarbonate lens
	N 20° Narrow <sup>[10]</sup>		BL Black texture powder coat	WET/CC Wet location, covered ceiling listed
				AM Anti-microbial <sup>[13]</sup>

## MOUNTING

### MOUNTING TYPE<sup>[14]</sup>

- N Open pan for new construction
- I IC-rated enclosure for new construction

### MOUNTING HARDWARE<sup>[15]</sup>

- F1 Integral 2-position fixed pan bracket, universal bar hanger included<sup>[16]</sup>
- BA1 Adjustable butterfly pan bracket, bar hanger not included<sup>[17]</sup>
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included<sup>[18]</sup>

## NOTES

- Lumen output based on L trim type, W distribution and WH finish, 4000K/90CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA
- See page 3 for CONTROL DETAILS.
- N Mounting Type only.
- N Mounting Type only.
- N Mounting Type only.
- Not available with WET/CC or ATH options. N Mounting Type only. Top access required. See page 4 for EM BATTERY DETAILS.
- I Mounting Type required.
- Trim ships separately.
- Beam angle based on L Trim Type and WH Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
- L7 lumen package max for N Mounting Type. Not available with I Mounting Type.
- 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 option.
- W distribution only.
- WH and BL Reflector Finishes only.
- Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- I Mounting requires external brackets
- N Mounting Type only
- N Mounting Type only

# 2AS tunable WHITE 2" Adjustable Downlight – Square

## 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
	M	15.1	464	31	423	28
	N	15.1	448	30	434	29
L7	W	19.5	693	36	662	34
	M	19.5	639	33	583	30
	N	19.5	616	32	598	31
L9	W	24.1	809	34	772	32
	M	24.1	745	31	680	28
	N	-	-	-	-	-

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 4000K, 90 CRI, actual lumens may vary +/-5%
- Beam angle based on L Trim Type and WH Reflector Finish.
- Use multiplier tables to calculate additional options.

### MULTIPLIER TABLES

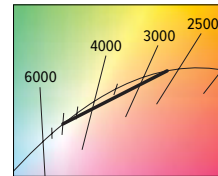
COLOR TEMPERATURE		
CCT	LUMENS	WATTS
2700K	0.87	1.05
3000K	0.96	1.11
3500K	1.02	1.06
4000K	1.00	1.00
5000K	1.02	1.06

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

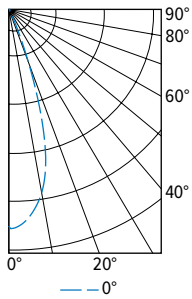
### BEAM ANGLE

	TRIM TYPE	
	FLUSH	REGRESSED
W	40°	40°
M	30°	30°
N	20°	20°



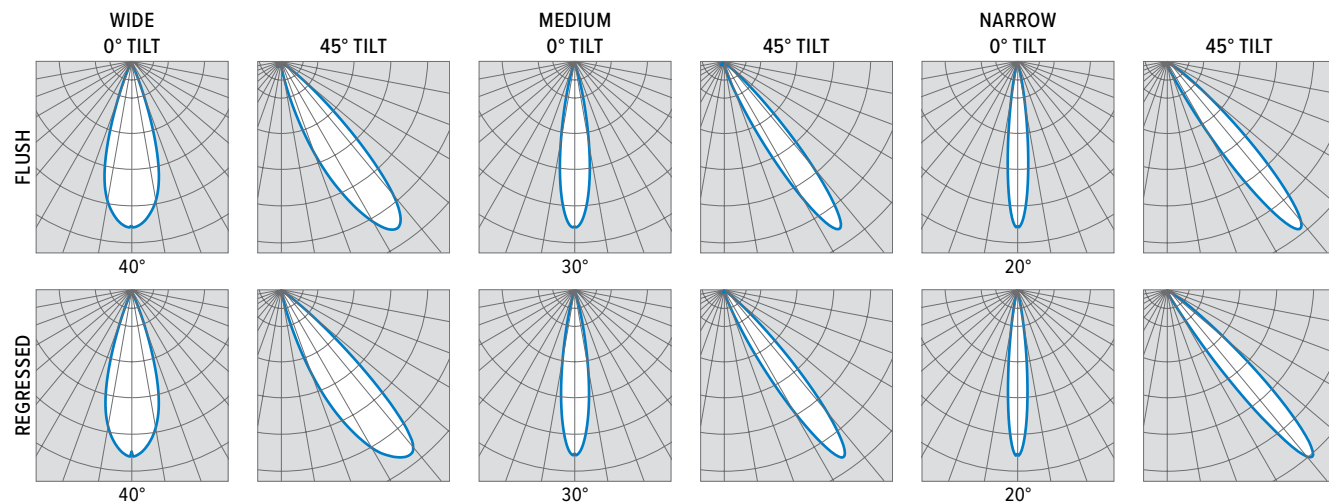
## PHOTOMETRY

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



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	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	0

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



# 2AS tunable WHITE

## 2" Adjustable Downlight – Square

### CONTROL DETAILS

#### DIM



#### DALI



#### DMX



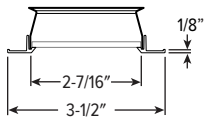
#### LUTRON T-SERIES



### TRIM TYPE DETAILS

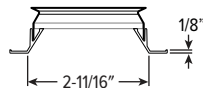
#### 1/2" STANDARD FLANGE TYPE

##### FLUSH



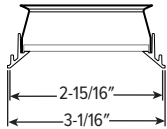
Ceiling Cutout: 3"

##### REGRESSED



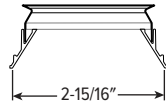
#### ZERO-FLANGE MUD-IN

##### FLUSH

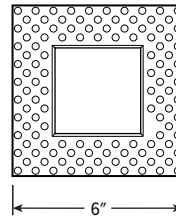
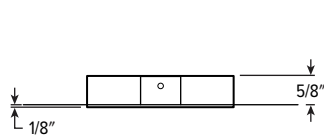


Ceiling Cutout: 3-1/2"

##### REGRESSED



##### MUD FLANGE MOUNTING KIT



### REFLECTOR FINISH DETAILS

#### CS

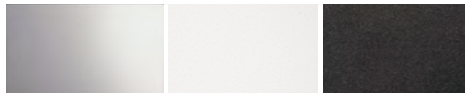
Clear semi-specular

#### WH

White

#### BL

Black

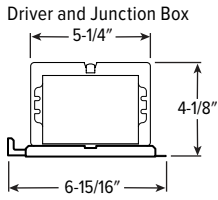
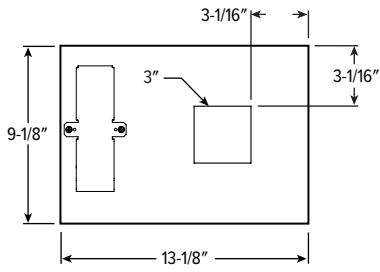


# 2AS tunable WHITE

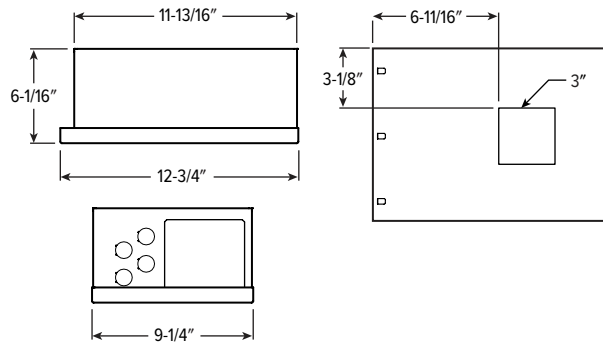
## 2" Adjustable Downlight – Square

### MOUNTING TYPE DETAILS

#### NEW CONSTRUCTION

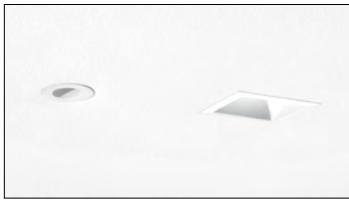


#### IC-RATED

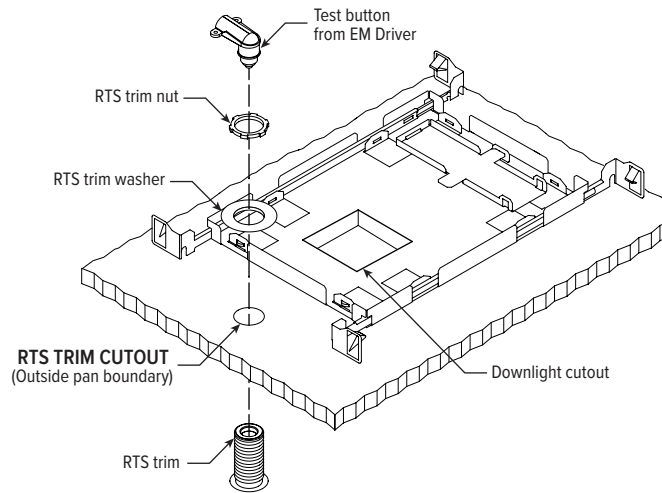


### EM BATTERY DETAILS

#### EM/10W/RTS MOUNTING



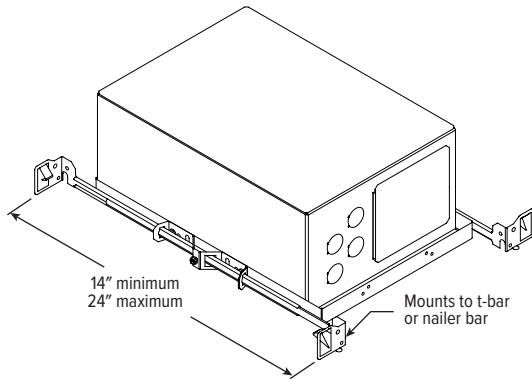
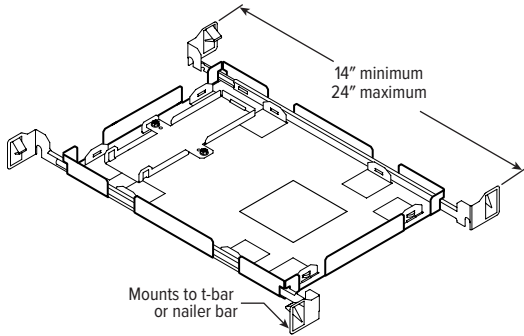
Shown Installed



# 2AS tunable WHITE 2" Adjustable Downlight – Square

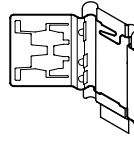
## MOUNTING HARDWARE DETAILS

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

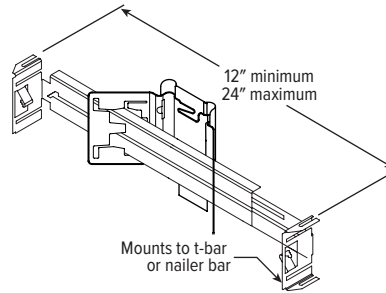


F1 with I Mounting Type

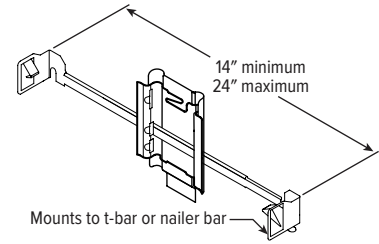
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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



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



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

