

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

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

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



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	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 <sup>[2]</sup> F Fuse CP Chicago plenum (CCEA) <sup>[3]</sup>	See page 3 for CONTROL 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 PSQ Lutron T-Series 2-channel tunable white 1%. <sup>[4]</sup>	UNV 120-277V

### TRIM <sup>[5]</sup>

TRIM TYPE	DISTRIBUTION <sup>[6]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens R Regressed lens	W 40° Wide M 30° Medium N 20° Narrow <sup>[7]</sup>	OF 1/2" standard flange ZF Zero-flange mud-in <sup>[8]</sup>	CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat	AD Diffuse acrylic lens <sup>[9]</sup> PD Diffuse 1/8" polycarbonate lens WET/CC Wet location, covered ceiling listed <sup>[10]</sup> AM Anti-microbial <sup>[11]</sup>

### MOUNTING

MOUNTING TYPE <sup>[12]</sup>	MOUNTING HARDWARE <sup>[13]</sup>
N Open pan for new construction <sup>[14]</sup> I IC-rated enclosure for new construction <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, 90 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA
- I Mounting Type required.
- I Mounting Type required.
- N Mounting Type only, top access 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.
- Not available with L9 lumen package or I Mounting Type.
- 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.
- W distribution only.

- Not available with PD trim option.
- 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.
- Top access required.
- Top access required. Not available with EM batteries.
- I Mounting requires external brackets
- N Mounting Type only.
- N Mounting Type only.



# 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 20° narrow to 40° wide for tailored performance
- New construction mounting pan or IC-rated enclosure available
- Contemporary design provides glare-free illumination for a soft ceiling appearance

### 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/baa](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://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
	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 based on L trim type, W distribution, WH 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

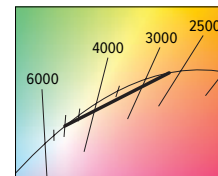
COLOR TEMPERATURE		
CCT	LUMENS	WATTS
2700K	0.87	1.05
3000K	0.96	1.11
3500K	1.02	1.06
4000K	1.00	1.00
5000K	1.02	1.06

REFLECTOR FINISH	
CATALOG NUMBER	CONVERSION FACTOR
WH	1.00
CS	0.98
BL	0.79

### BEAM ANGLE

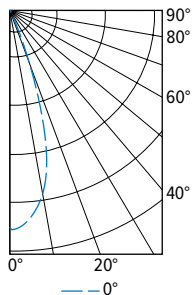
	TRIM TYPE	
	FLUSH	REGRESSED
W	40°	40°
M	30°	30°
N	20°	20°

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



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	

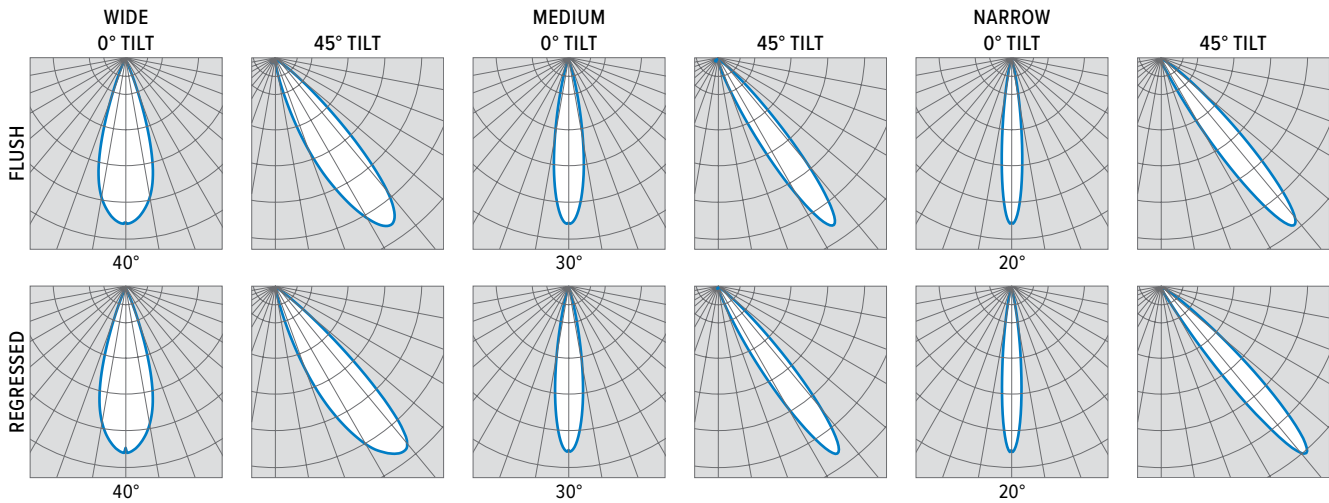
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	802	99
	0 - 60	808	100
	0 - 90	809	100
	0-180	809	100



2AS

tunable WHITE

2" Adjustable Downlight – Square



EMERGENCY BATTERY OPTIONS

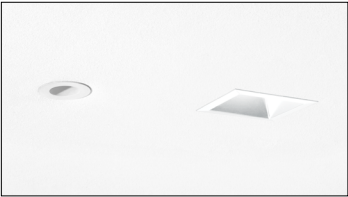
Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

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 <sup>1</sup>
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch <sup>2</sup>
EM/10W	10-watt emergency battery
EM/10W/RTS	10-watt emergency battery with regressed test switch <sup>1</sup>
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch <sup>2</sup>

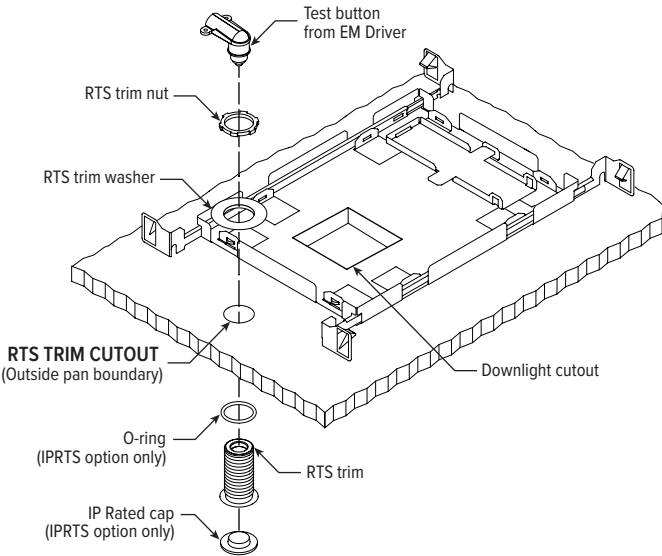
<sup>1</sup> Not available with WET/CC Option. N Mounting Type only. Top access required.

<sup>2</sup> N Mounting Type only. Top access required.

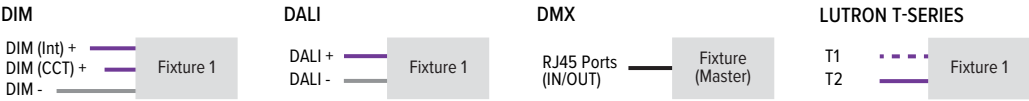
REGRESSED TEST SWITCH DETAILS



Shown Installed



CONTROL DETAILS

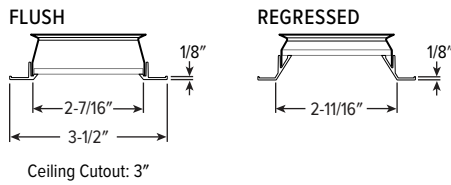


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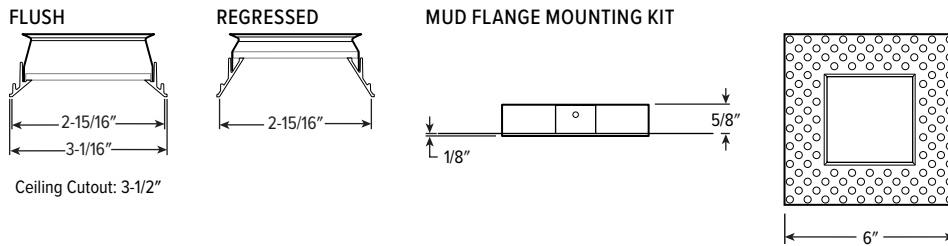
## 2" Adjustable Downlight – Square

### TRIM TYPE DETAILS

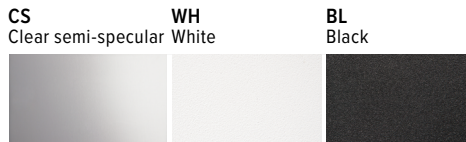
#### 1/2" STANDARD FLANGE TYPE



#### ZERO-FLANGE MUD-IN

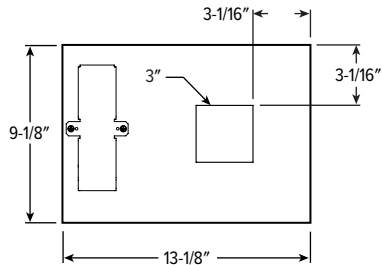


### REFLECTOR FINISH DETAILS

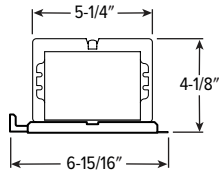


### MOUNTING TYPE DETAILS

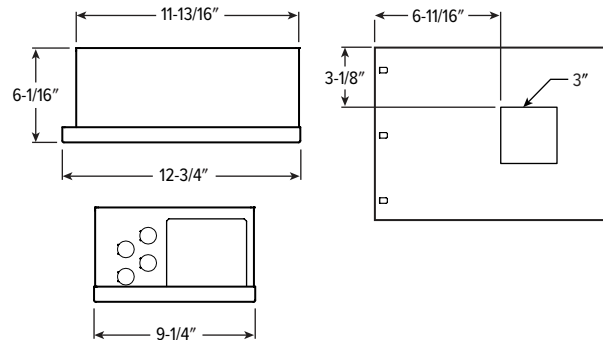
#### NEW CONSTRUCTION



#### Driver and Junction Box



#### IC-RATED

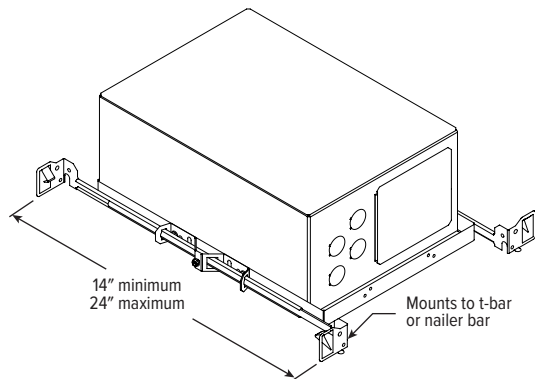
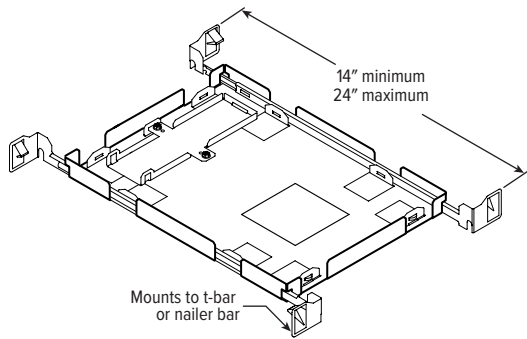


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## 2" Adjustable Downlight – Square

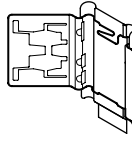
### MOUNTING HARDWARE DETAILS

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

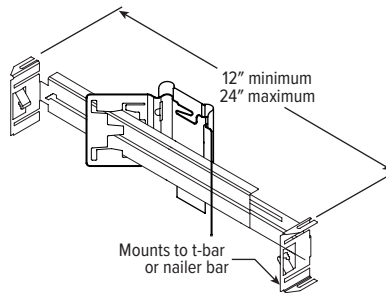


F1 with I Mounting Type

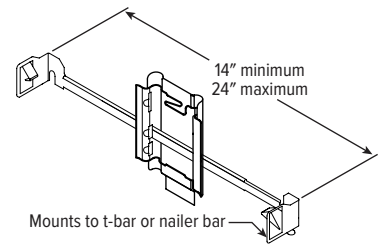
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



**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)

