

CATALOG #: _ PROJECT: _







NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE:	2AS - L15/835	- OPTIONS -	CONTROL/DIM -	UNV -	LW - C	F - CS -	TRIM (OPTIONS	- 11	N - I	=1
		—— HOUSIN	IG			— т	RIM		L	MOUN	IT.

HOUSING

SERIES	LUM	IENS [1]	CRI	CCT	OPTIONS	CONTRO)L	DRI۱	/ER	VOLTAGE
2AS	L5 L7 L9	500lm 700lm 900lm	8 80 9 90 ^[2]	27 2700K 30 3000K 35 3500K	See page 3 for EMERGENCY BATTERY OPTIONS.	DRIVEŘ (CON	page 6 for ADDITIONAL TROL/DRIVER OPTIONS.	UNV 120-277V 347 347V [10]
	L12 L15	1,200lm 1.500lm		40 4000K 50 5000K	ATH Airtight construction [3] F Fuse CP Chicago plenum (CCFA) [4]		None A Avi-on wireless fixture control [6]		1 1% Dimming driver, 0-10V [8]	
	LIJ	1,3001111		30 3000K	CP Chicago plenum (CCEA) [4] SDT Stepdown transformer [5]	AWNR	Lutron Athena wireless node integral fixture control, RF only [7]	DA	Driver with 12V auxiliary power, without external dimming wires ^[9]	

TRIM [11]

TRIM TYPE	DISTRIBUTION [12]	FLANGE TYPE	REF	LECTOR FINISH	TRIM O	PTIONS
L Flush lens R Regressed lens	W 35° Wide M 20° Medium N 15° Narrow	OF 1/2" standard flange ZF Zero-flange mud-in [13]	CS WH BL	The second secon		Diffuse acrylic lens ^[14] Diffuse 1/8" polycarbonate lens Wet location, covered ceiling listed ^[15] Anti-microbial ^[16]

MOUNTING

MOUNTING TYPE [17]

N Open pan for new construction [19]

I IC-rated enclosure for new construction [20]

R Remodel kit [21]

MOUNTING HARDWARE [18]

Integral 2-position fixed pan bracket, universal bar hanger included [22]

BA1 Adjustable butterfly pan bracket, bar hanger not included [23]

Adjustable caterpillar pan bracket, universal bar hanger included $^{\text{[24]}}$

NOTES

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

 Not available with 5000K CCT. Extended lead times may apply. Consult factory for availability. I Mounting Type required.

- I Mounting Type required.
- May be required for 347V, see product builder at hew.com/product-builder.
 DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.

- L9 minimum lumen package required.

 Avi-on and Lutron Athena Controls only. Not available with R Mounting Type.
- Not available with EM batteries, DA, or DMX drivers.
- 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.

 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 or WET/CC options.

- W distribution only.Not available with PD trim option.
- 19 WH and BL Reflector Finishes only.

 10 Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.

 11 DETAILS OF THE PROPERTY OF THE PROPERT
- Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- Top access required.
- 20 L9 lumen package max. Top access required. Not available with EM batteries.
 21 Also used in new construction sheetrock ceilings. Pan-less installation. Additional plenum space required for R mounting when specified with EM battery. See page 3 for REMODEL MOUNTING DETAILS.
- N and I Mounting Types only. I Mounting requires external brackets.
- 23 N Mounting Type only.
- 24 N Mounting Type only.

FEATURES

- Beam angles ranging from 15° narrow to 35° wide for tailored performance
- Adjustable aim with 0° 45° tilt and 360° rotation
- 2" aperture is unobtrusive in small scale spaces
- 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
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Wireless in-fixture control solutions available

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 microprismatic, 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 > 44,000 hours. Reported L90 = 28,000 hours. Estimated L70 = 117,000 hours.
- 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 L12 and L15 lumen packages when specified with R Mounting Type.

- 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.

FIXTURE PERFORMANCE DATA

			FLUSH LENS TRIM TYPE		REGRESSED LE	NS TRIM TYPE
	DISTRIBUTION	WATTAGE	DELIVERED LUMENS	EFFICACY (Im/W)	DELIVERED LUMENS	EFFICACY (Im/W)
	W	8.2	503	61	480	59
고	М	8.2	408	50	372	45
	N	8.2	463	57	449	55
	W	11.5	714	62	681	59
\Box	М	11.5	578	50	527	46
	N	11.5	656	57	636	55
	W	14.5	885	61	845	58
2	М	14.5	717	49	654	45
	N	14.5	814	56	789	54
	W	21.3	1179	55	1125	53
112	М	21.3	955	45	871	41
	N	21.3	1084	51	1051	49
	W	27.9	1331	48	1270	46
12	М	27.9	1078	39	983	35
	N	27.9	1224	44	1187	43

- Photometrics tested in accordance with IESNA LM-79. Results based on L trim type, W distribution, WH finish, 80 CRI/3500K 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				
	ССТ	CONVERSION FACTOR			
	2700K	0.92			
~	3000K	0.98			
80 CRI	3500K	1.00			
	4000K	1.01			
	5000K	1.02			
	2700K	0.76			
중	3000K	0.79			
06	3500K	0.82			
	4000K	0.84			

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	

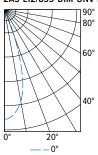
BEAM ANGLE

	TRIM TYPE			
	FLUSH	REGRESSED		
W	35°	35°		
М	20°	20°		
N	15°	15°		

	TRIM TYPE			
	FLUSH	REGRESSED		
W	35°	35°		
М	20°	20°		
N	15°	15°		

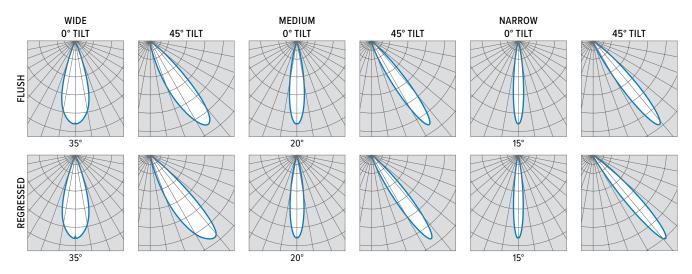
PHOTOMETRY

2AS-L12/835-DIM-UNV-LW-OF-WH 0° TILT Report #: 13257190; 03/19/20 | Total Luminaire Output: 1179 lumens; 21.3 Watts | Efficacy: 55.4 lm/W | 80 CRI; 3500K CCT



	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
8	0	3527	
5	5	3424	227
CANDLEPOWER DISTRIBUTION	15	2151	269
드	25	179	47
	35	30	11
	45	24	10
<u>G</u> .	55	24	11
틸	65	20	9
S	75	12	5
	85	3	1
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 40	1101	93
NS	0 - 60	1144	97
ME	0 - 90	1179	100
3	0-180	1179	100



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/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch ²	
EM/10W	<u> </u>	
EM/10W/RTS	IS 10-watt emergency battery with regressed test switch 4	
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch 5	

- Not available with WET/CC Option. N Mounting Type only. Top access required.
- N Mounting Type only. Top access required.

 Not available with L5 lumen package.

 Not available with L5 lumen package or WET/CC Option. N Mounting Type only. Top access required.

 Not available with L5 lumen package. N Mounting Type only. Top access required.

REMODEL MOUNTING DETAILS

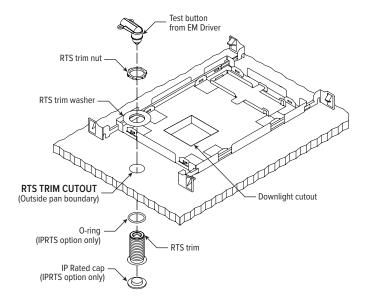
Additional plenum space required for R mounting when specified with EM battery.

PLENUM RESTRICTIONS	
CATALOG NUMBER	MINIMUM HEIGHT
EM/5W	7″
EM/7W	9″
EM/10W	11"

REGRESSED TEST SWITCH DETAILS

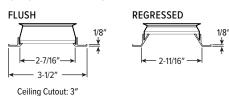


Shown Installed



TRIM TYPE DETAILS

1/2" STANDARD FLANGE TYPE

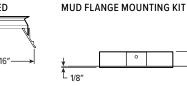


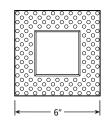
ZERO-FLANGE MUD-IN



Ceiling Cutout: 3-1/2"





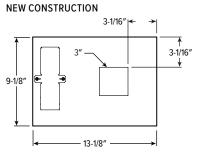


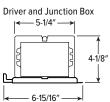
5/8'

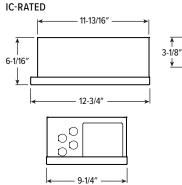
REFLECTOR FINISH DETAILS

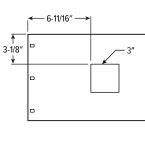


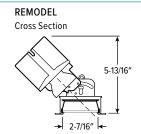
MOUNTING TYPE DETAILS

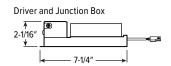






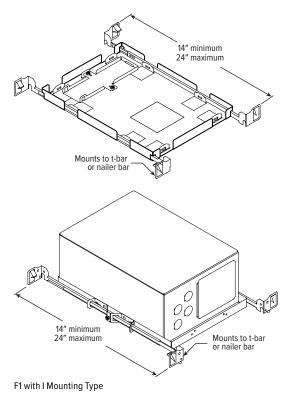






MOUNTING HARDWARE DETAILS

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



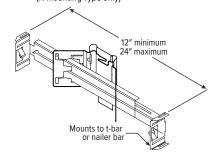
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



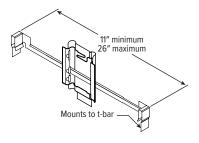
Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



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



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



SEE NEXT PAGE FOR CONTROL DETAILS.

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

- 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.







Zone Scanner Web App



Commissioning Pro App

SYSTEM COMPONENTS





Remote Management & Monitoring



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

On/off/dimming, 120-277VAC AVI-2401AC-3 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

ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L7 minimum for DIM LINE driver. 347V may require stepdown transformer, see product builder at hew.com/product-builder. R Mounting Type only available with DIM, DIM1, and DIM LINE controls. Lutron controls available with N Mounting Type only, top access required.

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power
AWNR/DA	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, with Lutron Hi-lume 1% EcoSystem dimming LED driver
FCJS/DIM	Lutron Vive PowPak wireless fixture control with dimming driver
FCJS/DIM1	Lutron Vive PowPak wireless fixture control with 1% dimming driver
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
DALI	DALI dimming driver
DMX	0.1% dimming driver for DMX controls
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver