

CATALOG #:	
TYPE:	
PROJECT:	

NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 4DS - L20/835 - OPTIONS - CONTROL/DIM - UNV -- LW - OF - WH - TRIM OPTIONS -- IN - F1 MOUNT. — HOUSING —



HOUSING

SERIES 4DS	LUMENS ^[1] L10 1,000lm L15 1,500lm	CRI 8 80 9 90 [2]	CCT 27 2700K 30 3000K	OPTIONS See page 4 for EMERGENCY BATTERY OPTIONS.	CONTROL See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS.	DRIVER See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS.	VOLTAGE UNV 120-277V 347 347V [8]
	L20 2,000lm L30 3,000lm L40 4,000lm		35 3500K 40 4000K 50 5000K	ATH Airtight construction F Fuse kit SDT Stepdown transformer [3] CP Chicago plenum (CCEA)[4]	- None AVI-LVFA Avi-on wireless fixture control [5] AWNR Lutron Athena wireless node integral fixture control, RF only [6]	DIM Dimming driver, 0-10V DIM1 1% Dimming driver, 0-10V DA Driver with 12V auxiliary power, without external dimming wires [7]	

TRIM [9]

TRIM TYPE	DIS	TRIBUTION [10]	FLANGE TYPE	REFL	ECTOR FINISH	TRIM O	PTIONS
L Flush lens O Open reflector R Regressed lens A Angled lens [11]	W M N	Wide 55° Open 60° Flush 60° Regressed Medium (12) 45° Open 35° Flush 35° Regressed Narrow (13) 40° Open 25° Flush 25° Regressed	OF 1/2" standard flange SF 1/4" mud-in flange [15]	Open CS SG GD CG PW SPC RG Lens	trim types Clear semi-specular anodize Satin-glow anodize Gold anodize Champagne gold anodize Pewter anodize Clear specular anodize Rose gold anodize trim types Clear semi-specular powder coat	MWT IP AD PD	Textured white trim flange [17] IP65 rated trim [18] Diffuse acrylic lens [19] Diffuse 1/8" polycarbonate lens [20] E Wet location, covered ceiling listed [21] Anti-microbial [22]
	ww	Wall wash [14]		WH BL MB	White texture powder coat Black texture powder coat Black texture splay with white flange [16]		

MOUNTING

MOUNTING TYPE [23]

- N Open pan for new construction
- I IC-rated enclosure for new construction [25]
- R Remodel kit [26]

MOUNTING HARDWARE [24]

- Integral 2-position fixed pan bracket, universal bar hanger included [27]
- BA1 Adjustable butterfly pan bracket, bar hanger not included [28]
- Adjustable caterpillar pan bracket, universal bar hanger included [29]

NOTES

- Lumen output based on L trim type, W distribution and WH finish, 3500K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- Extended lead times may apply. Consult factory for availability. May be required for 347V, see product builder at hew.com/product-builder.
- I Mounting Type required.
- DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. DA Driver only.

- DA Driver only.
 Avi-on and Lutron Athena Controls only.
 Not available with EM batteries, DA or DMX Drivers.
 Trim ships separately.
 Beam angle based on CS or WH reflector finish.

- Available with WW Distribution only. Not available with L40 lumen package. 12
- Not available with L40 lumen package.
- O and A Trim Types only.
 For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 3 for FLANGE TYPE DETAILS. Not available with ATH or IP option.

- R Trim Type only. Not available with MWT. Not available with WH Reflector Finish or L Trim Type.

- Not available with WH Reflector Finish or L Trim Type.
 Land R trim types only.
 Not available with O trim type. W and WW distributions only.
 Not available with O trim type. W and WW distributions only.
 Not available with O Trim Type. Not available with PD trim option.
 WH and BL Reflector Finishes only.
 Mounting hardware required (N and I only), 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.
- Not available with L30 or L40 lumen packages. Not available with EM batteries.
 Also used in new construction sheetrock ceilings. Pan-less installation.
- N and I Mounting Types only. I Mounting requires external brackets.
- N Mounting Type only.
 N Mounting Type only.

S LED 4.5" Downlight — Square

FEATURES

- Beam angles ranging from 25° narrow to 60° wide for tailored performance
- Die-cast trim choices include flush, regressed or angled
- Spring clip retention system eliminates trim sag
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Fully room-side accessible
- Wireless in-fixture control solutions available
- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus



Available with BIOS® consult factory

SPECIFICATIONS

- HOUSING Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms field adjust for ceiling thickness from 1/2'' - 2-1/4''.
- OPEN REFLECTOR Low-iridescent anodized aluminum with top diffuser.
- 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>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000
- MOUNTING Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware. Minimum 24" O.C. marked spacing required for L40 lumen package.

- 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.
- Title 24 (JA8) compliant in select configurations, see www.cacertappliances.energy.ca.gov.
- 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

OPEN REFLECTOR TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	947	12.0	79
은	M	1045	12.0	87
	N	1067	12.0	89
	W	1395	17.4	80
115	M	1540	17.4	89
	N	1573	17.4	90
	W	1893	25.0	76
L20	M	2089	25.0	84
	N	2134	25.0	85
	W	2839	36.0	79
L30	M	3090	36.0	86
	N	2999	36.0	83
	W	3739	45.0	83
L4	M	_	_	_
	N	_	_	_

FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	1026	12.0	86
19	М	1127	12.0	94
	N	1144	12.0	95
	W	1511	17.4	87
115	М	1666	17.4	96
	N	1684	17.4	97
	W	2050	25.0	82
L20	M	2261	25.0	90
	N	2285	25.0	91
	W	3077	36.0	86
L30	M	3333	36.0	93
	N	3214	36.0	89
	W	4053	45.0	90
L40	М	-	_	_
	N	_	_	_

REGRESSED LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	986	12.0	82
12	M	1111	12.0	93
	N	1127	12.0	94
	W	1453	17.4	84
115	M	1637	17.4	94
	N	1660	17.4	95
	W	1972	25.0	79
L20	M	2221	25.0	89
	N	2253	25.0	90
	W	2957	36.0	86
L30	M	3285	36.0	91
	N	3166	36.0	88
	W	3895	45.0	87
L40	M	_	_	_
	N	-	_	_

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				
=	3000K	0.79				
90 CRI	3500K	0.82				
9	4000K	0.84				
	5000K	0.88				

OPEN REFLECTOR FINISH						
CATALOG NUMBER						
CS	Clear semi-specular	1.00				
SG	Satin-glow	0.83				
GD	Gold	0.93				
CG	Champagne Gold	0.96				
PW	Pewter	0.86				
SPC	Specular	1.02				
RG	Rose Gold	0.88				
WH	WH White, textured					
BL	BL Black, textured					

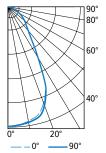
TRIM					
CATALOG NUMBER	CONVERSION FACTOR				
AD	0.85				
PD	0.85				
•					

- 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 3500K, 80 CRI, actual lumens may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

4DS LED 4.5" Downlight – Square

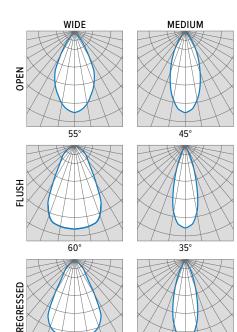
PHOTOMETRY

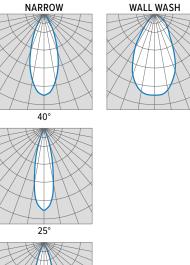
4DS-L20/835-DIM-UNV-LW-OF-WH Report #: 20316; 04/16/18 | Total Luminaire Output: 2050 lumens; 25.0 Watts | Efficacy: 82 lm/W | 83.8 CRI; 3478K CCT

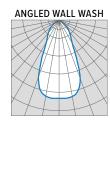


VEDTICAL ANCIE	HORIZ	ZONTAL A	ZONAL LUMENS		
VERTICAL ANGLE	0°	45°	90°	LUNAL LUNENS	
0	1526	1526	1526		
5	1512	1512	1513	144	
15	1426	1447	1456	410	
25	1107	1253	1110	546	
35	501	762	491	372	
45	317	344	314	254	
55	192	197	191	175	
65	101	98	99	100	
75	42	41	42	44	
85	5	4	6	5	
90	0	0	0		
	5 15 25 35 45 55 65 75 85	VERTICAL ANGLE 0° 0 1526 5 1512 15 1426 25 1107 35 501 45 317 55 192 65 101 75 42 85 5	VERTICAL ANGLE 0° 45° 0 1526 1526 5 1512 1512 15 1426 1447 25 1107 1253 35 501 762 45 317 344 55 192 197 65 101 98 75 42 41 85 5 4	0° 45° 90° 0 1526 1526 1526 5 1512 1513 15 1426 1447 1456 25 1107 1253 1110 35 501 762 491 45 317 344 314 55 192 197 191 65 101 98 99 75 42 41 42 85 5 4 6	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	1100	54
S	0 - 40	1472	72
핕	0 - 60	1902	93
]	0 - 90	2050	100
	0 - 180	2050	100





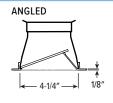


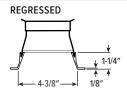
TRIM TYPE DETAILS







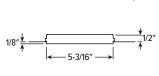


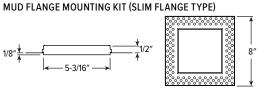


FLANGE TYPE DETAILS





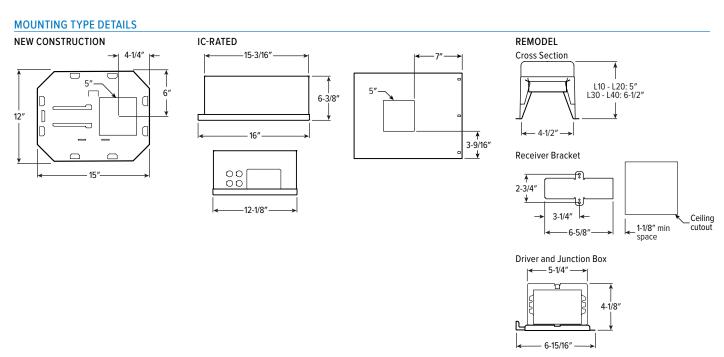






REFLECTOR FINISH DETAILS

SPC Clear specular	SG Satin glow	PW Pewter	GD Gold	CG Champagne gold	RG Rose gold	CS Clear semi-specular	WH White	BL Black



EMERGENCY BATTERY OPTIONS

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

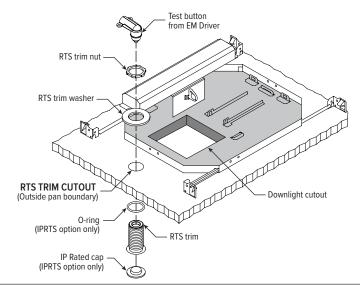
CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery [1]
EM/7W/RTS	7-watt emergency battery with regressed test switch [2]
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch
EM/10W	10-watt emergency battery [1]
EM/10W/RTS	10-watt emergency battery with regressed test switch [2]
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch

Not available with IP Option. Not available with IP or WET/CC Options.

REGRESSED TEST SWITCH DETAILS



Shown Installed





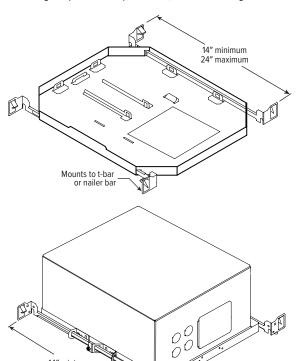
APERTURE ADAPTOR ORDERING INFO

ORDERING EXAMPLE: 4DR - GR - 0575 - WHT						
SERIES	CATALOG NUMBER CEILING CUTOUT		FINISH			
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 8DR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS WH BL	Clear semi-specular powder coat White texture powder coat Black texture powder coat		

For use with remodel downlights. Additional finishes available, consult factory. For limitations and instructions, see hew.com/aperture-adaptor.pdf

MOUNTING HARDWARE DETAILS

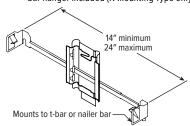
F1 Integral 2-position fixed pan bracket, universal bar hanger included



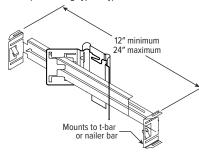
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



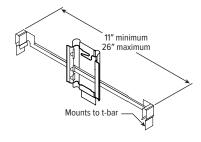
CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



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)



F1 with I Mounting Type

14" minimum 24" maximum

SEE NEXT PAGE FOR CONTROL DETAILS.

Mounts to t-bar or nailer bar

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.







Commissioning Zone Scanner Web App

Commissioning Pro App



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Ceiling Sensors

Mobile App **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		
AVI-2401AC-3	On/off/dimming, 120-277VAC		
AVI-2402BAT-3	On/off/dimming, battery powered		

For load controllers and additional accessory info, see hew.com/avi-on

NETWORK

AVI-RAB-ITE Remote access bridge – LTE connection AVI-2001RAB-01-C Remote access bridge - Wifi connection AVI-KIT-NTM Network time manager with battery backup

CEILING MOUNT SENSORS

Remote Access Bridge

AVI-KIT-SEN-DUCM PIR motion and ultrasonic sensor kit AVI-KIT-SEN-ICM PIR motion and photocell sensor kit

ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L30 max for DMX driver, L30 max for Lutron drivers, L40 max for DIM LINE driver. R mounting type requires top access with DMX controls. R Mounting Type not available with FCJS controls. R Mounting Type requires 12" minimum plenum depth when specified with VRF/DBI controls. 347V may require stepdown transformer, see product builder at hew.com/product-builder. I Mounting Type not available with Lutron controls.

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control 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