4PR LED
4.5" Shallow Plenum Downlight – Round

Williams

CATALOG #: _____

L10-L20: 4-9/16"
L30: 5-1/4"

ø4-1/4"

1/2" min
1-1/4" max

15"

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 4PR - TL - L20/835 - OPTIONS - CONTROL/DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

———————————————— HOUSING ———————————————— | ———————— TRIM ———————— | MOUNT.

HOUSING

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

TRIM [10]

TRIM TYPE	DISTRIBUTION [11]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	**W** 65° Wide	**OF** 1/2" standard flange	**CS** Clear semi-specular powder coat	**IP** IP65 rated trim
A Angled lens [12]	**M** 35° Medium	**SF** 1/4" mud-in flange [14]	**WH** White texture powder coat	**AD** Diffuse acrylic lens [15]
S Non-conductive flush lens for shower applications [13]	**N** 25° Narrow		**BL** Black texture powder coat	**PD** Diffuse 1/8" polycarbonate lens [16]
				WET/CC Wet location, covered ceiling listed [17]
				AM Anti-microbial [18]

MOUNTING

MOUNTING TYPE [19]

N Open pan for new construction
I IC-rated enclosure for new construction [21]
R Remodel kit [22]

MOUNTING HARDWARE [20]

F1 Integral 2-position fixed pan bracket, universal bar hanger included [23]
BA1 Adjustable butterfly pan bracket, bar hanger not included [24]
CA1 Adjustable caterpillar pan bracket, universal bar hanger included [25]

NOTES

[1] 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.
[2] Not available with EM/10W emergency batteries.
[3] Extended lead times may apply. Consult factory for availability.
[4] I Mounting Type required.
[5] May be required for 347V, see product builder at hew.com/product-builder.
[6] DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
[7] DA Driver only.
[8] Avi-on and Lutron Athena Controls only.
[9] Not available with EM batteries, DA or DMX Drivers.
[10] Trim ships separately.

[11] Beam angle based on WH reflector finish and L Trim Type.
[12] Wide distribution only. Diffuse acrylic lens standard.
[13] W Distribution, OF Flange Type, and WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC options standard.
[14] For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for FLANGE TYPE DETAILS. Not available with ATH or IP options.
[15] L Trim Type only. W distribution only.
[16] W distribution only.
[17] Not available with PD trim option.
[18] WH and BL Reflector Finishes only. Not available with S Trim Type.

[19] Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
[20] Specify for N and I Mounting Types only. Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
[21] Not available with L30 lumen package. Not available with EM batteries.
[22] Also used in new construction sheetrock ceilings. Pan-less installation. See page 3 for REGRESSED TEST SWITCH DETAILS.
[23] N and I Mounting Types only. I Mounting requires external brackets.
[24] N Mounting Type only.
[25] N Mounting Type only.

4PR LED
4.5″ Shallow Plenum Downlight – Round

FEATURES

TrimLock®

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Die-cast trim with flush or angled lens provides glare-free illumination for a soft ceiling appearance
- Industry-leading efficacies as high as 100 lm/W – ENERGY STAR® certified
- Fully room-side accessible
- Slim 5 inch depth for minimal plenum space applications
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Wireless in-fixture control solutions available

ENERGY STAR

SPECIFICATIONS

- HOUSING – Spun housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2″ – 1-1/4″ (consult factory for additional ceiling thicknesses).
- TRIMLOCK – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- 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.
- 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 L30 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.
  - ENERGY STAR® certified in select configurations, see www.energystar.gov
  - 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

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	921	10.7	86
L10	M	1072	10.7	100
L10	N	1064	10.7	99
L15	W	1405	16.7	84
L15	M	1636	16.7	98
L15	N	1624	16.7	97
L20	W	1830	22.8	80
L20	M	2130	22.8	93
L20	N	2114	22.8	93
L30	W	3127	46.6	67
L30	M	3538	46.6	76
L30	N	3516	46.6	75

MULTIPLIER TABLES

COLOR TEMPERATURE

	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
80 CRI	3000K	0.98
80 CRI	3500K	1.00
80 CRI	4000K	1.01
80 CRI	5000K	1.02
90 CRI	2700K	0.76
90 CRI	3000K	0.79
90 CRI	3500K	0.82
90 CRI	4000K	0.84
90 CRI	5000K	0.88

TRIM

CATALOG NUMBER	CONVERSION FACTOR
S	0.85
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 tables to calculate additional options.
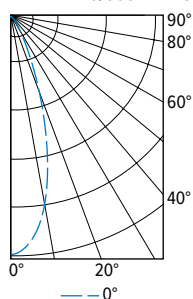
PHOTOMETRY

4PR-TL-L20/835-DIM-UNV-LW-OF-WH Report #: 12316380.29 ; 06/12/18 | Total Luminaire Output: 1830 lumens; 22.8 Watts | Efficacy: 80 lm/W | 82.7 CRI; 3565K CCT
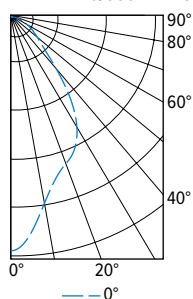
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1465	
5	1365	91
15	1057	167
25	926	222
35	663	187
45	304	10
55	178	73
65	104	45
75	52	22
85	13	4
90	2	

ZONE	LUMENS	% FIXTURE
0 - 40	1253	69
0 - 60	1656	91
0 - 90	1830	100
0-180	1830	100

4PR-TL-L20/835-DIM-UNV-LM-OF-WH Report #: 12316380.31; 06/13/18 | Total Luminaire Output: 2130 lumens; 22.8 Watts | Efficacy: 93 lm/W | 82.7 CRI; 3560K CCT

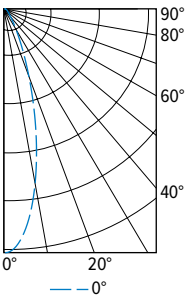| VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	5004	
5	4751	315
15	2968	390
25	1007	187
35	302	79
45	125	42
55	64	26
65	37	16
75	19	8
85	5	2
90	1	

ZONE	LUMENS	% FIXTURE
0 - 40	1910	90
0 - 60	2067	97
0 - 90	2130	100
0-180	2130	100

4PR LED
4.5″ Shallow Plenum Downlight – Round

4PR-TL-L20/835-DIM-UNV-LN-OF-WH Report #: 12316380.32; 06/13/18 | Total Luminaire Output: 2114 lumens; 22.8 Watts | Efficacy: 93 lm/W | 82.6 CRI; 3545K CCT

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	7096	
5	6408	398
15	3003	366
25	802	144
35	222	59
45	105	37
55	63	26
65	38	17
75	19	8
85	4	1
90	1	

ZONE	LUMENS	% FIXTURE
0 - 40	1912	90
0 - 60	2051	97
0 - 90	2114	100
0-180	2114	100

EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.
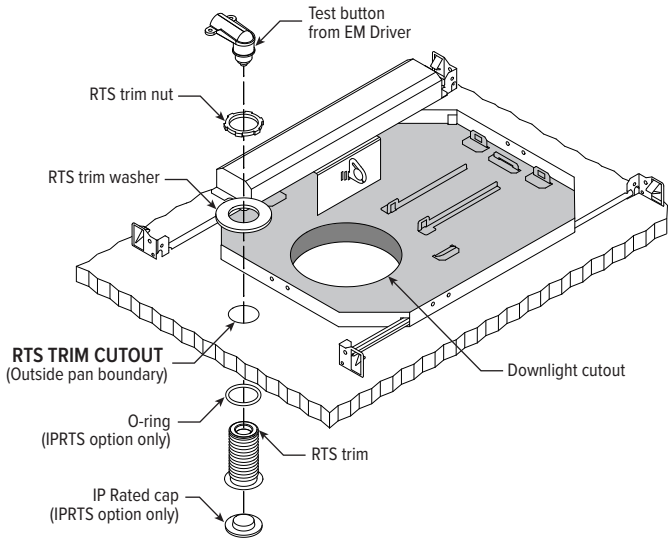
CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery [1]
EM/7W/RTS	7-watt emergency battery with regressed test switch [2]
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch
EM/10W	10-watt emergency battery [1]
EM/10W/RTS	10-watt emergency battery with regressed test switch [2]
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch

1   Not available with S Trim Type or IP Option.
2   Not available with S Trim Type, IP or WET/CC Options.

REGRESSED TEST SWITCH DETAILS

Shown Installed

Test button from EM Driver

RTS trim nut

RTS trim washer

RTS TRIM CUTOUT
(Outside pan boundary)

O-ring
(IPRTS option only)

IP Rated cap
(IPRTS option only)

RTS trim

Downlight cutout

REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

BL
Black

TRIMLOCK DETAILS

TWIST

PULL

RELEASE

TRIM TYPE DETAILS

FLUSH

ø4-1/4″   1/8″

SHOWER

ø4-1/4″   1/8″

ANGLED

ø4-1/4″   1/8″

FLANGE TYPE DETAILS

1/2″ STANDARD

ø5-1/2″

Ceiling Cutout: ø5″

1/4″ MUD-IN

ø5″

Ceiling Cutout: ø5-1/2″

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)

1/8″   1/2″   ø5-3/16″

ø8″

MOUNTING TYPE DETAILS

NEW CONSTRUCTION

4-1/4″
ø5″
6″
12″
15″

IC-RATED

A
C
B
D
E
ø5″
F

	LENGTH					
LUMENS	**A**	**B**	**C**	**D**	**E**	**F**
L10 - L20	15-1/16″	16″	4-1/2″	12-1/8″	9-1/2″	6-1/16″

REMODEL

Cross Section

4-9/16″
ø4-1/4″

Receiver Bracket

2-3/4″
3-1/4″
6-5/8″
1-1/8″ min space
Ceiling cutout

Driver and Junction Box

5-1/4″
4-1/8″
6-15/16″
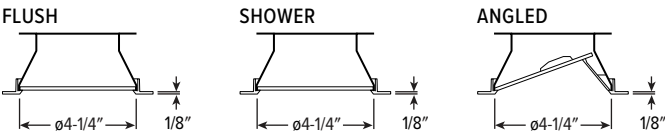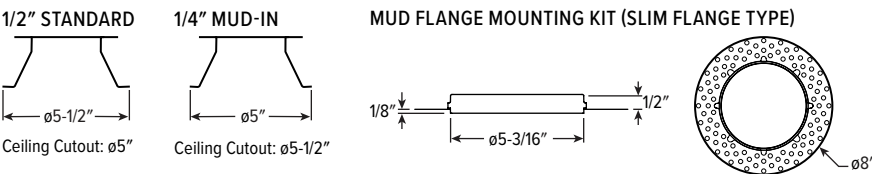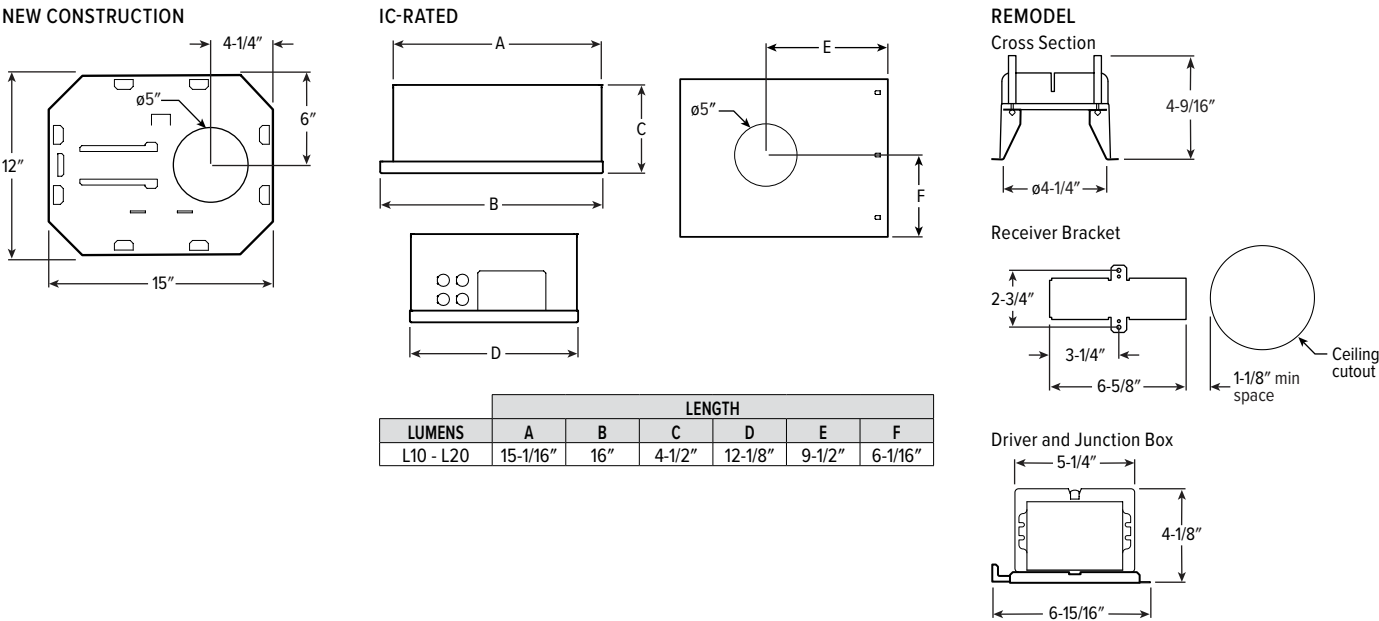
APERTURE ADAPTOR ORDERING INFO

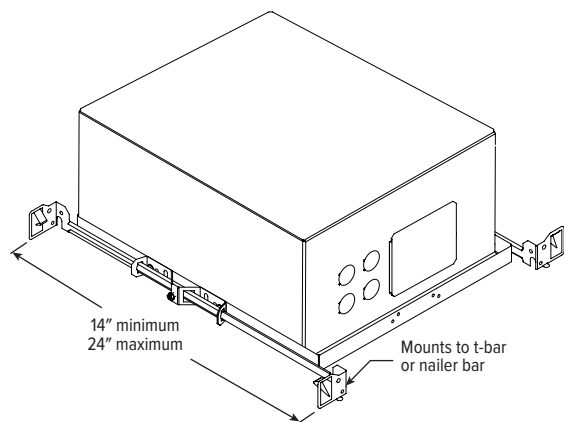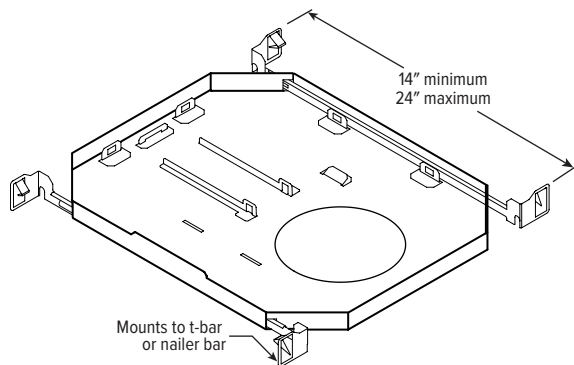| ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	**CATALOG NUMBER**	**CEILING CUTOUT**	**FINISH**
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 8DR	GR	Specify ceiling cutout in 1/8″ increments. Example: 5.75″ = **0575** See Kit Components for application limits.	**CS** Clear semi-specular powder coat **WH**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

For use with remodel downlights. Additional finishes available, consult factory.
For limitations and instructions, see hew.com/aperture-adaptor.pdf
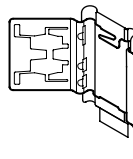
4PR LED
4.5″ Shallow Plenum Downlight – Round

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
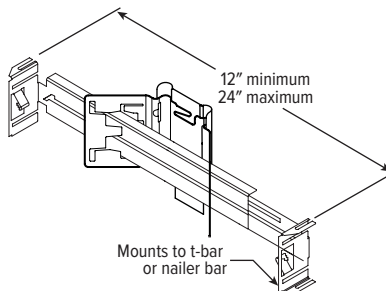24″ maximum

Mounts to t-bar or nailer bar
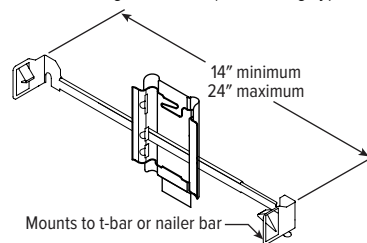
F1 with I Mounting Type

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

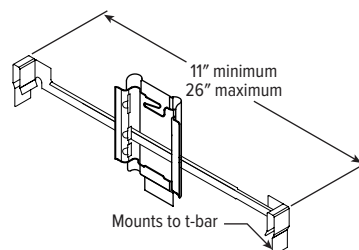**BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)

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

SEE NEXT PAGE FOR CONTROL DETAILS.

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Information contained herein is subject to change without notice.   REV.08/21/23.LA

Downlights
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4PR LED
4.5″ Shallow Plenum Downlight – Round

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

Secure
- 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.
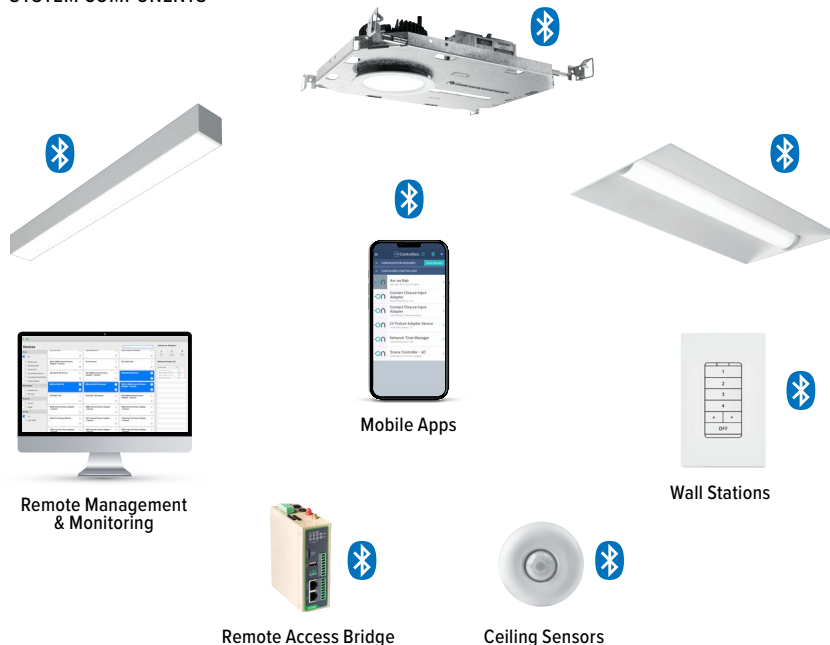

Commissioning Mobile App

Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS

Mobile Apps

Remote Management & Monitoring

Wall Stations

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

NETWORK	
AVI-RAB-LTE	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	
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: L20 max for DMX driver, L20 max for Lutron drivers, L30 max for DIM LINE driver. R mounting type requires top access with DMX controls. R Mounting Type not available with VRF or FCJS 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