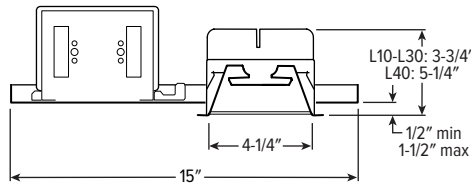


4PS LED 4.5" Shallow Plenum Downlight – Square



CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 4PS - L40/835 - OPTIONS - CONTROL/DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

HOUSING

SERIES	LUMENS ^[1]	CRI	CCT	OPTIONS	CONTROL	DRIVER ^[2]	VOLTAGE
4PS	L10 1,000lm ^[3]	8 80	27 2700K	EM/7W 7-watt emergency battery ^[5]	– None	DIM Dimming driver, 0-10V	UNV 120-277V 347 347V ^[12]
	L15 1,500lm	9 90 ^[4]	30 3000K	EM/10W 10-watt emergency battery ^[6]	AVI-LVFA Avi-on wireless fixture control ^[10]	DIM1 1% Dimming driver, 0-10V	
	L20 2,000lm		35 3500K	EM/10W/RTS 10-watt emergency battery with regressed test switch ^[7]		DA Driver with 12V auxiliary power ^[11]	
	L30 3,000lm		40 4000K	ATH Airtight construction			
	L40 4,000lm		50 5000K	CP Chicago plenum (CCEA) ^[8]			
				F Fuse kit			
				SDT Stepdown transformer ^[9]			

TRIM^[13]

TRIM TYPE	DISTRIBUTION ^[14]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 75° Wide M 35° Medium N 30° Narrow	OF 1/2" standard flange SF 1/4" mud-in flange ^[15]	CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat	IP IP65 rated trim AD Diffuse acrylic lens ^[16] PD Diffuse 1/8" polycarbonate lens ^[17] WET/CC Wet location, covered ceiling listed ^[18] AM Anti-microbial ^[19]

MOUNTING

MOUNTING TYPE ^[20]	MOUNTING HARDWARE ^[21]
N Open pan for new construction	F1 Integral 2-position fixed pan bracket, universal bar hanger included ^[24]
I IC-rated enclosure for new construction ^[22]	BA1 Adjustable butterfly pan bracket, bar hanger not included ^[25]
R Remodel kit ^[23]	CA1 Adjustable caterpillar pan bracket, universal bar hanger included ^[26]

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.
- See page 6 for ADDITIONAL DRIVER OPTIONS.
- Not available with EM/10W emergency batteries.
- Extended lead times may apply. Consult factory for availability.
- N and R Mounting Types only. L10 only available with EM/7W. Not available with ATH or IP options.
- N and R Mounting Types only. Not available with ATH or IP options.
- Not available with WET/CC, ATH or IP options. N and R Mounting Types only. See page 4 for EM/10W/RTS DETAILS.
- 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.
- Avi-on Controls only.
- Not available with EM batteries, DMX Driver, or Avi-on Controls.
- Trim ships separately.
- Beam angle based on WH reflector finish.
- 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 options.
- Wide distribution only.
- Wide distribution only.
- 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 3 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- Not available with L30 and L40 lumen packages.
- 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.

4PS LED 4.5" Shallow Plenum Downlight – Square

FEATURES

- Beam angles ranging from 30° narrow to 75° wide for tailored performance
- 4 inch aperture is unobtrusive in small scale spaces
- Slim 5 inch depth for minimal plenum space applications
- Square shape accentuates architectural styles
- Spring clip retention system eliminates trim sag
- Die-cast trim with flush lens provides glare-free illumination for a soft ceiling appearance
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Fully room-side accessible
- Available with Avi-on wireless fixture controls



SPECIFICATIONS

- **HOUSING** – Formed steel housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2" – 1-1/2" (consult factory for additional ceiling thicknesses).
- **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 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.
- **WARRANTY** – 5-year limited warranty, see hew.com/warranty.

FIXTURE PERFORMANCE DATA

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	1029	10.7	96.0
	M	1064	10.7	99.2
	N	1030	10.7	96.0
L15	W	1581	17.2	91.8
	M	1634	17.2	94.8
	N	1581	17.2	91.8
L20	W	2058	23.5	87.7
	M	2127	23.5	90.6
	N	2059	23.5	87.7
L30	W	3087	33.2	92.9
	M	3191	33.2	96.1
	N	3088	33.2	93.0
L40	W	4116	44.7	92.0
	M	4261	44.7	95.3
	N	4122	44.7	92.2

MULTIPLIER TABLES

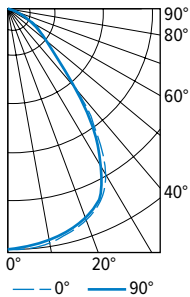
	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
90 CRI	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

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 L trim type, W distribution and WH finish. 3500K/80CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

PHOTOMETRY

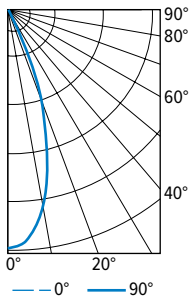
4PS-L40/835-DIM-UNV-LW-OF-WH Report #: 20339; 04/25/18 | Total Luminaire Output: 4116 lumens; 44.7 Watts | Efficacy: 92.0 lm/W | 82.8 CRI; 3431K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2316	2316	2316	
	5	2315	2303	2302	220
	15	2232	2221	2214	629
	25	2087	2092	2065	964
	35	1483	1764	1441	1016
	45	667	1028	644	620
	55	382	429	367	358
	65	208	205	203	205
	75	88	87	87	93
	85	13	12	10	12
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1813	44
	0 - 40	2829	69
	0 - 60	3806	93
	0 - 90	4116	100
	0 - 180	4116	100

4PS-L40/835-DIM-UNV-LM-OF-WH Report #: 20341; 04/24/18 | Total Luminaire Output: 4261 lumens; 44.7 Watts | Efficacy: 95.3 lm/W | 82.8 CRI; 3431K CCT



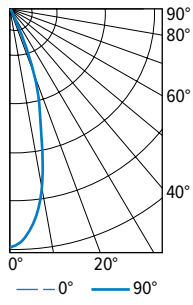
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	9143	9143	9143	
	5	8842	8817	8847	842
	15	6053	6054	6011	1714
	25	2094	2085	2088	967
	35	611	616	649	388
	45	226	244	238	182
	55	100	111	103	93
	65	48	52	52	50
	75	21	21	24	22
	85	1	3	2	2
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	3523	83
	0 - 40	3911	92
	0 - 60	4186	98
	0 - 90	4261	100
	0 - 180	4261	100



4PS LED 4.5" Shallow Plenum Downlight – Square

4PS-L40/835-DIM-UNV-LN-OF-WH Report #: 20342; 04/24/18 | Total Luminaire Output: 4122 lumens; 44.7Watts | Efficacy: 92.2 lm/W | 82.8 CRI; 3431K CCT

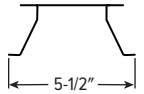


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	10746	10746	10746	
5	10121	10033	10007	958
15	5673	5741	5643	1618
25	1750	1904	1859	850
35	485	522	550	324
45	208	221	228	170
55	118	129	125	112
65	57	67	63	63
75	22	26	26	26
85	0	2	3	2
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	3425	83
	0 - 40	3750	91
	0 - 60	4031	98
	0 - 90	4122	100
	0 - 180	4122	100

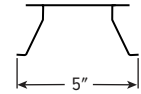
FLANGE TYPE DETAILS

1/2" STANDARD



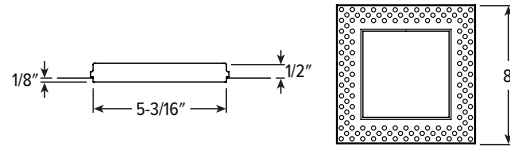
Ceiling Cutout: 5"

1/4" MUD-IN



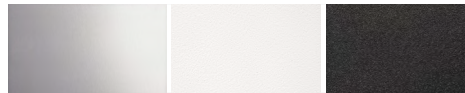
Ceiling cutout: 5-1/2"

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



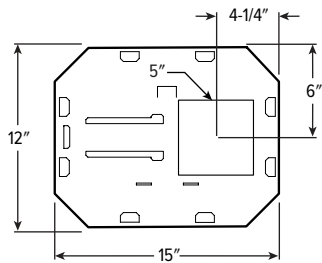
REFLECTOR FINISH DETAILS

CS Clear semi-specular
WH White
BL Black

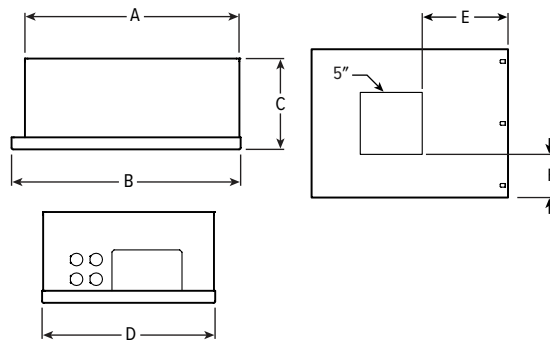


MOUNTING TYPE DETAILS

NEW CONSTRUCTION

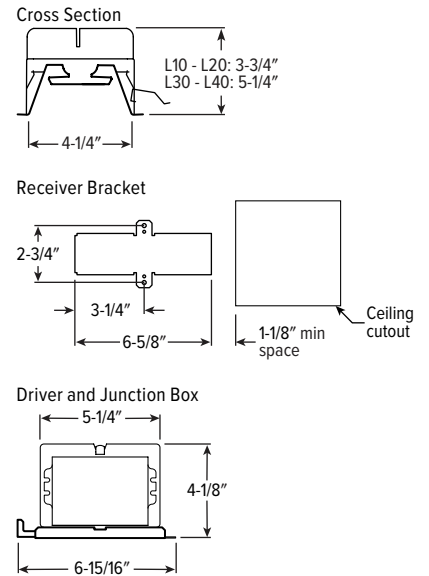


IC-RATED

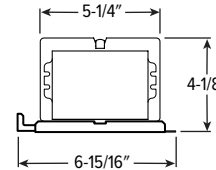


LUMENS	LENGTH					
	A	B	C	D	E	F
L10 - L20	15-1/16"	16"	4-1/2"	12-1/8"	7"	3-9/16"

REMODEL



Driver and Junction Box



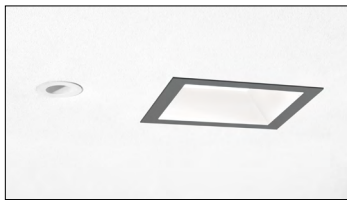
4PS^{LED} 4.5" Shallow Plenum Downlight – Square

APERTURE ADAPTOR ORDERING INFO

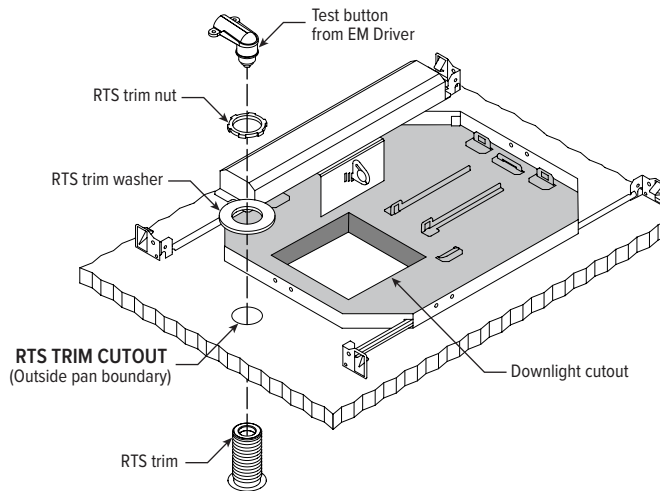
ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR	6AR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS Clear semi-specular powder coat
4DR	6DR		WH White texture powder coat
4DS	6DS		BL Black texture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

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

EM/10W/RTS DETAILS



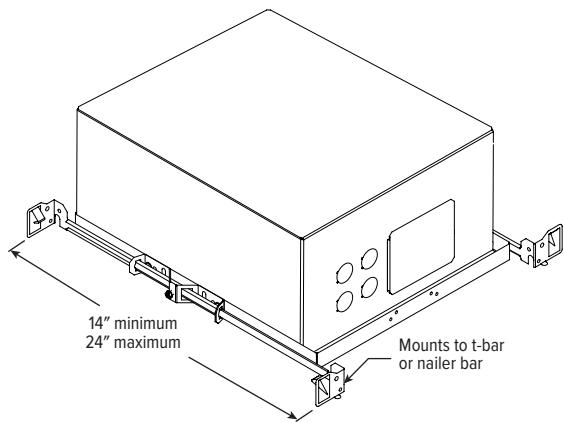
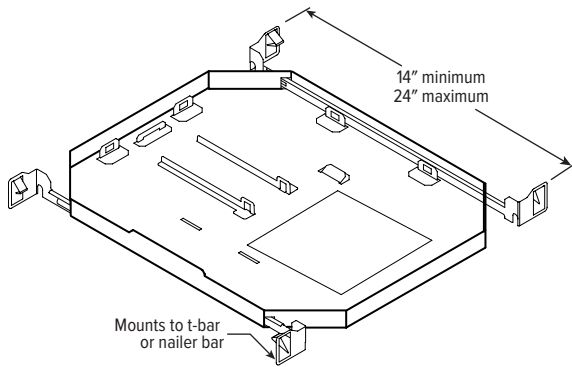
Shown Installed



4PS^{LED} 4.5" Shallow Plenum Downlight – Square

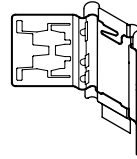
MOUNTING HARDWARE DETAILS

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

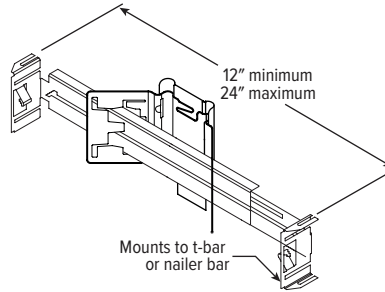


F1 with I Mounting Type

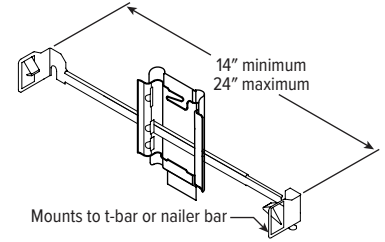
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



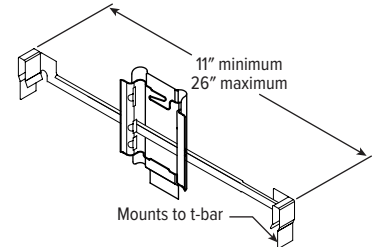
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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)



SEE NEXT PAGE FOR CONTROL DETAILS.



4PS LED 4.5" Shallow Plenum Downlight – Square

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

AVI-ON NETWORK FEATURES

Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size
- Spans small areas to large warehouses
- Flexible control strategies

Secure

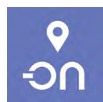
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

DIGITAL INSTALLATION TOOLS

Avi-On mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers.



Commissioning Mobile App

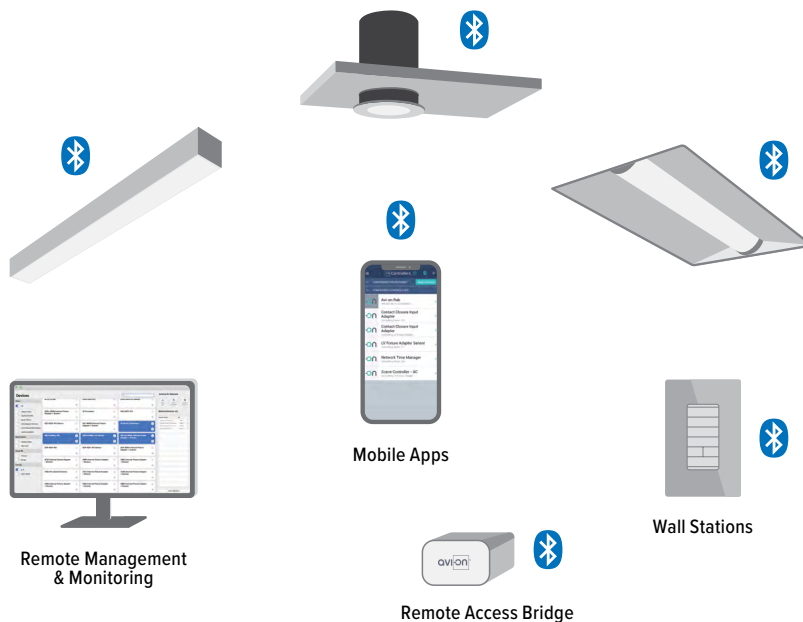


Zone Scanner Web App



Commissioning Pro App

SYSTEM COMPONENTS



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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-SWITCH	AC paddle wall switch
AVI-DIMMER	Circuit dimmer switch
CONNECTIVITY	
AVI-2001RAB-01-P	Remote access bridge for projects 100 or greater
AVI-2001RAB-01-C	Remote access bridge for projects less than 100
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 DRIVER OPTIONS

Lumen restrictions apply: L30 max for DMX driver, L30 max for Lutron drivers, L40 max for DIM LINE driver. R Mounting Type not available with DMX, 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
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)
DA	Dimming driver with 12V auxiliary
DMX	0.1% dimming driver for DMX controls
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use 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

