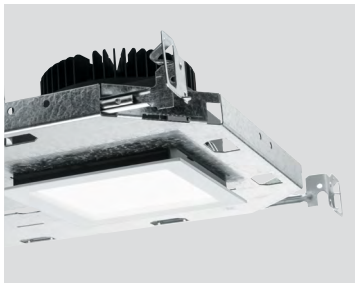
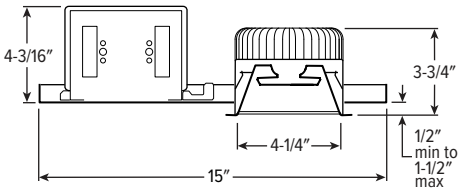
4PS LED
4.5″ Shallow Plenum Downlight – Square



NEW CONSTRUCTION AND REMODEL



L10 – L30 Lumens shown

CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT | CCEA Approved | Low UGR | IP65 Rated | WET/CC | ASTM-E283 | TW

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

(4PS - L40/835 - OPTIONS - CONTROL/DIM - UNV: HOUSING; LW - OF - WH - TRIM OPTIONS: TRIM; N - F1: MOUNT.)

HOUSING

SERIES

4PS

LUMENS [1]

Single CCT or TW
- **L10** 1,000lm
- **L15** 1,500lm
- **L20** 2,000lm

Single CCT only
- **L30** 3,000lm
- **L40** 4,000lm

CRI
- **8** 80
- **9** 90 [2]

CCT
- **27** 2700K
- **30** 3000K
- **35** 3500K
- **40** 4000K
- **50** 5000K
- **TW** Tunable white (80 CRI, 2700K-5000K)

OPTIONS

*See page 3 for **EMERGENCY BATTERY OPTIONS.***

*See page 3 for **APERTURE ADAPTOR ORDERING INFO.***

- **ATH** Airtight construction
- **CP** Chicago plenum (CCEA) [3]
- **F** Fuse kit
- **SDT** Stepdown transformer [4]
- **(L__)** Additional lower lumen packages available. [5] Example: 3,500 lumens = 4PS-L40/835-**(L35)**

CONTROL

*Click **HERE** for control options.*

- – None

DRIVER

*See page 5 for **ADDITIONAL DRIVER OPTIONS.***

- **DIM** Dimming driver, 0-10V [6]
- **DIM1** 1% Dimming driver, 0-10V [7]
- **DIM LINE** Driver with line voltage dimming wires [8]

VOLTAGE
- **UNV** 120-277V
- **347** 347V [9]

TRIM [10]

TRIM TYPE

L Flush lens

DISTRIBUTION [11]
- **W** 75° Wide
- **M** 35° Medium
- **N** 30° Narrow

FLANGE TYPE
- **OF** 1/2″ standard flange
- **SF** 1/4″ mud-in flange [12]

REFLECTOR FINISH
- **CS** Clear semi-specular powder coat
- **WH** White texture powder coat
- **BL** Black texture powder coat

TRIM OPTIONS
- **IP** IP65 rated trim
- **AD** Diffuse acrylic lens [13]
- **PD** Diffuse 1/8″ polycarbonate lens [14]
- **WET/CC** Wet location, covered ceiling listed
- **AM** Anti-microbial [15]

MOUNTING

MOUNTING TYPE [16]
- **N** Open pan for new construction
- **I** IC-rated enclosure for new construction [18]
- **R** Remodel kit [19]

MOUNTING HARDWARE [17]
- **F1** Integral 2-position fixed pan bracket, universal bar hanger included [20]
- **F1S** New construction mounting pan shipped ahead, integral 2-position fixed bracket, universal bar hangers included [21]
- **BA1** Adjustable butterfly pan bracket, bar hanger not included [22]
- **CA1** Adjustable caterpillar pan bracket, universal bar hanger included [23]

NOTES

1 Lumen output based on L Trim Type, W Distribution and WH Reflector Finish, 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
2 Not available with tunable white.
3 I Mounting Type required.
4 May be required for 347V, see product builder at hew.com/product-builder
5 Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
6 0.1% Driver with tunable white.
7 Not available with tunable white.
8 L40 lumen package max. Not available with tunable white.
9 Not available with Tunable White, EM batteries, or DMX Driver.
10 Trim ships separately.
11 Beam angle based on WH Reflector Finish.
12 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.
13 W Distribution only.
14 W Distribution only.
15 WH and BL Reflector Finishes only.
16 Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
17 Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
18 L20 lumen package max. Not available with EM batteries.
19 Also used in new construction sheetrock ceilings. Pan-less installation.
20 N and I Mounting Types only. I Mounting requires external brackets.
21 N Mounting Type only.
22 N Mounting Type only.
23 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
- Low UGR meets LEED and WELL requirements
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

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. 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 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.
  - IP65 rated trim when specified with IP option.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

FIXTURE PERFORMANCE DATA

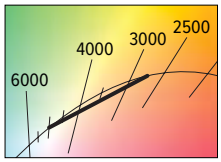
	DISTRIBUTION	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)
L10	W	10.6	1036	98
	M	10.6	1103	104
	N	10.6	1129	107
L15	W	15.6	1560	100
	M	15.6	1661	106
	N	15.6	1700	109
L20	W	20.6	2069	100
	M	20.6	2203	107
	N	20.6	2255	109
L30	W	29.3	3028	103
	M	29.3	3201	109
	N	29.3	3146	107
L40	W	40.6	4029	99
	M	40.6	4259	105
	N	40.6	4186	103

MULTIPLIER TABLES

	COLOR TEMPERATURE		
	CCT	SINGLE CCT	TW
80 CRI	2700K	0.98	0.83
	3000K	1.00	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
	5000K	0.99	0.98
90 CRI	2700K	0.94	–
	3000K	0.96	–
	3500K	0.97	–
	4000K	0.97	–
	5000K	0.95	–

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

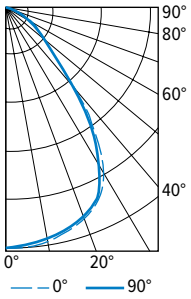
TUNABLE WHITE



- Photometrics tested in accordance with IESNA LM-79. Results based on L trim type, W distribution and WH Reflector Finish, 80 CRI, 3500K for single CCT and 4000K for tunable white, wattage for 120V input, and 25°C ambient temperature. Actual performance 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

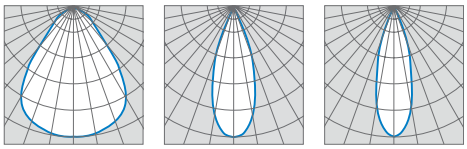
4PS-L40/835-DIM-UNV-LW-OF-WH Total Luminaire Output: 1036 lumens; 10.6 Watts | Efficacy: 98 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	583	583	583	
	5	583	580	580	55
	15	562	559	557	158
	25	526	527	520	239
	35	373	444	363	249
	45	168	259	162	162
	55	96	108	92	92
	65	52	52	51	52
	75	22	22	22	24
	85	3	3	3	5
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	453	44
	0 - 40	702	68
	0 - 60	955	92
	0 - 90	1036	100
	0 - 180	1036	100

FLUSH (L)



75° Wide | 35° Medium | 30° Narrow

4PS LED
4.5″ Shallow Plenum Downlight – Square

EMERGENCY BATTERY OPTIONS

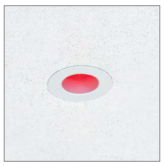
ORDERING EXAMPLE: EM/7W/RTS	
EMERGENCY BATTERY	TEST SWITCH
EM/7W 7-watt emergency battery **EM/10W** 10-watt emergency battery [1]	**–** Standard [2] **/RTS** Regressed test switch [3] **/IPRTS** IP65 rated regressed test switch [4]

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required. Max remote distance is 50′, connection by others.

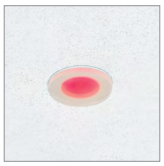
1 Not available with L10 lumen package.
2 Not available with IP Trim Option.
3 Not available with IP or WET/CC Trim Options.
4 Must specify IP or WET/CC Trim Options.

TEST SWITCH DETAILS

Standard
2-3/4″ x 4-1/2″



Regressed
ø1-3/4″



IP-Rated
ø1-3/4″

APERTURE ADAPTOR ORDERING INFO

ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG #	CEILING CUTOUT	FINISH
4AR **6AR** **8DR** **4DR** **6DR** **4DS** **6DS** **4PR** **6PR** **4PS** **6PS**	**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

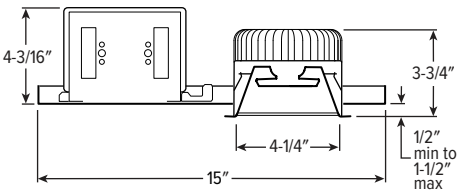
Adaptor (goof ring) corrects ceiling cutout errors during remodel downlight installation.

Additional finishes available, consult factory.

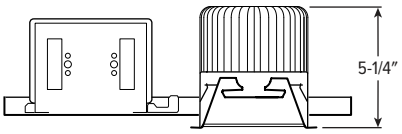
For limitations and instructions, see hew.com/aperture-adaptor.pdf

CROSS SECTIONS

L10 – L30 LUMENS

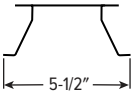


L40 LUMENS



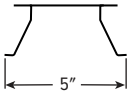
FLANGE TYPE DETAILS

1/2″ STANDARD



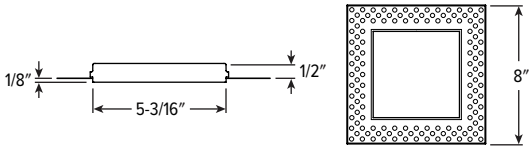
Ceiling Cutout: 5″

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

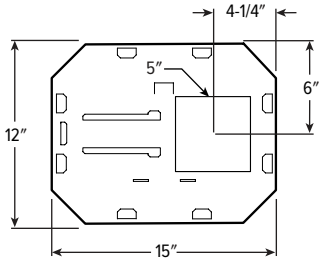
BL
Black

4PS LED
4.5″ Shallow Plenum Downlight – Square

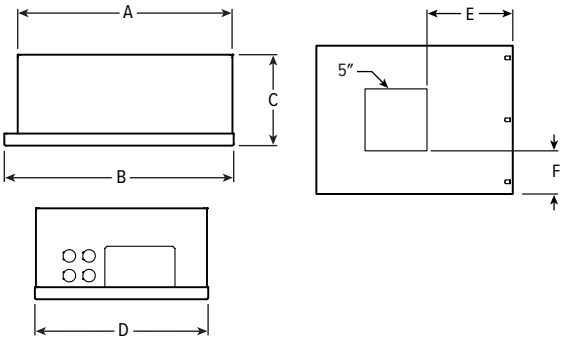
MOUNTING TYPE DETAILS

Flex conduit is recommended for installation.

NEW CONSTRUCTION



IC-RATED



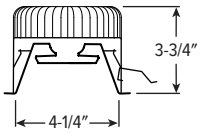
	LENGTH					
LUMENS	A	B	C	D	E	F
L10 - L20	15-1/16″	16″	4-1/2″	12-1/8″	7″	3-9/16″

REMODEL

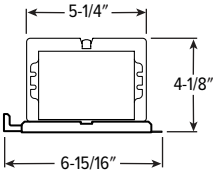
H.E. Williams Inc. strongly recommends installing a trial fixture to confirm fitment on-site prior to ordering full project quantities.

CROSS SECTION

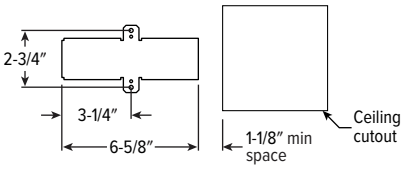
L10 – L30 lumens shown



DRIVER & JUNCTION BOX

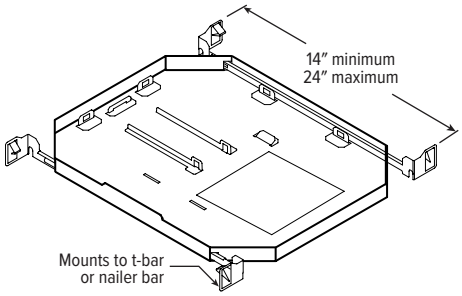


RECEIVER BRACKET

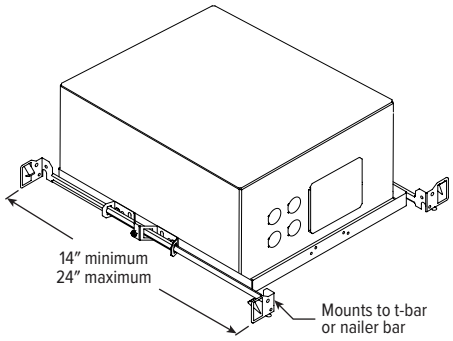


MOUNTING HARDWARE DETAILS

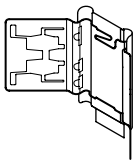
F1 Integral 2-position fixed pan bracket, universal bar hanger included



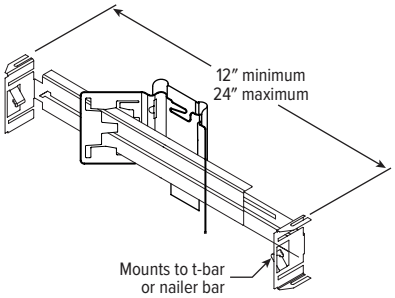
F1 with I Mounting Type



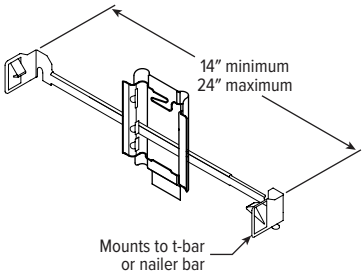
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



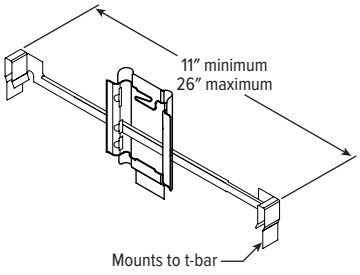
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included. (N Mounting Type only)



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 DRIVER DETAILS.

4PS LED
4.5" Shallow Plenum Downlight – Square

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 requires top access with DMX driver. 347V may require stepdown transformer, see product builder at hew.com/product-builder. I Mounting Type not available with Lutron driver.

CATALOG NUMBER	DESCRIPTION
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
DCC	Remote UL Class 2 DC constant current supply, UL- or CSA-listed, by others

1 Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM

DALI

DMX

LD2