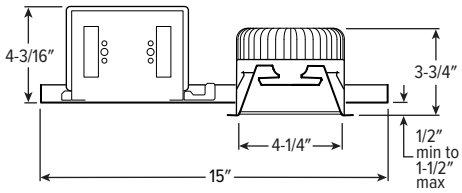
4PS dim to WARM
4.5″ Shallow Plenum Downlight – Square



CATALOG #:

TYPE:

PROJECT:

NEW CONSTRUCTION AND REMODEL

BAA & BABA COMPLIANT | CCEA Approved | IP65 Rated | WET/CC

ORDERING EXAMPLE: 4PS - L20/9DW - OPTIONS - DIM1 - UNV - LW - OF - WH - TRIM OPTIONS - N - F1
(HOUSING | TRIM | MOUNT.)

HOUSING

SERIES
4PS

LUMENS [1]
L7 700lm
L12 1,200lm
L20 2,000lm

COLOR
9DW Dim to warm (95 CRI, 1800K – 3000K)

OPTIONS
See page 3 for EMERGENCY BATTERY OPTIONS.
See page 3 for APERTURE ADAPTOR ORDERING INFO.
ATH Airtight construction
CP Chicago plenum (CCEA) [2]
F Fuse kit
SDT Stepdown transformer [3]

CONTROL
DIM1 1% dimming driver (0-10V signal to control dimming and CCT)
LUT Lutron Ecosystem enabled [4]

VOLTAGE
UNV 120-277V
347 347V [5]

TRIM [6]

TRIM TYPE
L Flush lens

DISTRIBUTION [7]
W 75° Wide
M 35° Medium
N 30° Narrow

FLANGE TYPE
OF 1/2″ standard flange
SF 1/4″ mud-in flange [8]

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 [9]
PD Diffuse 1/8″ polycarbonate lens [10]
WET/CC Wet location, covered ceiling listed
AM Anti-microbial [11]

MOUNTING

MOUNTING TYPE [12]
N Open pan for new construction
I IC-rated enclosure for new construction [14]
R Remodel kit [15]

MOUNTING HARDWARE [13]
F1 Integral 2-position fixed pan bracket, universal bar hanger included [16]
BA1 Adjustable butterfly pan bracket, bar hanger not included [17]
CA1 Adjustable caterpillar pan bracket, universal bar hanger included [18]

NOTES

1. Lumen output based on full light output, L Trim Type, W Distribution and WH Reflector Finish, 95 CRI/3000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. I Mounting Type required.
3. May be required for 347V, see product builder at hew.com/product-builder
4. Not available with I Mounting Type.
5. Not available with EM batteries or Avi-on Controls.
6. Trim ships separately.
7. Beam angle based on WH Reflector Finish.
8. 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.
9. W Distribution only.
10. W Distribution only.
11. WH and BL Reflector Finishes only.
12. Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
13. Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
14. L7 and L12 lumen packages only. Not available with EM batteries.
15. Also used in new construction sheetrock ceilings. Pan-less installation.
16. N and I Mounting Types only. I Mounting requires external brackets.
17. N Mounting Type only.
18. N Mounting Type only.

4PS dim to WARM
4.5" Shallow Plenum Downlight – Square

FEATURES

- Mimic the comfortable, welcoming glow of incandescent with warm-dimming technology
- 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
- Fully room-side accessible
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- IP65-rated die-cast trim includes easy-to-clean flush lens
- 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.
- MOUNTING – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware.
- 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

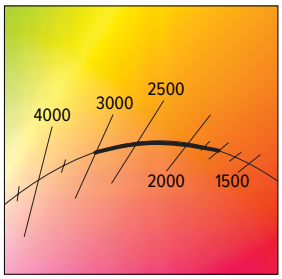
FIXTURE PERFORMANCE DATA

	DISTRIBUTION	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L7	W	753	3000K	1800K	14.0	54
	M	780			14.0	56
	N	754			14.0	54
L12	W	1321			23.4	57
	M	1367			23.4	58
	N	1323			23.4	57
L20	W	1955			37.7	52
	M	2021			37.7	54
	N	1956			37.7	52

MULTIPLIER TABLE

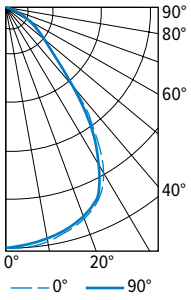
TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

- Photometrics tested in accordance with IESNA LM-79. Results based on full light output, L Trim Type, W Distribution and WH Reflector Finish, 95 CRI/3000K CCT, average 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 table to calculate additional options.



PHOTOMETRY

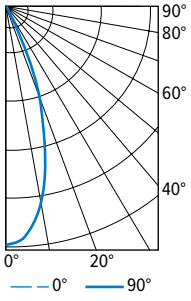
4PS-L20/9DW-DIM1-UNV-LW-OF-WH Total Luminaire Output: 1955 lumens; 37.7 Watts | Efficacy: 51.9 lm/W | 95.0 CRI; 3000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	1100	1100	1100	
	5	1100	1094	1093	104
	15	1060	1055	1052	298
	25	991	994	981	452
	35	704	838	684	470
	45	317	488	306	305
	55	181	204	174	173
	65	99	97	96	99
	75	42	41	41	45
	85	6	6	5	9
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	854	44
	0 - 40	1324	68
	0 - 60	1802	92
	0 - 90	1955	100
	0 - 180	1955	100

4PS-L20/9DW-DIM1-UNV-LM-OF-WH Total Luminaire Output: 2021 lumens; 37.7 Watts | Efficacy: 53.6 lm/W | 95.0 CRI; 3000K CCT



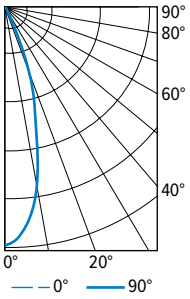
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	4343	4343	4343	
	5	4200	4188	4202	385
	15	2875	2876	2855	777
	25	995	990	992	487
	35	290	293	308	198
	45	107	116	113	90
	55	48	53	49	46
	65	23	25	25	24
	75	10	10	11	11
	85	0	1	1	2
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1648	82
	0 - 40	1847	91
	0 - 60	1983	98
	0 - 90	2021	100
	0 - 180	2021	100

PHOTOMETRY CONTINUED ON NEXT PAGE.

4PS dim to WARM
4.5″ Shallow Plenum Downlight – Square

4PS-L20/9DW-DIM1-UNV-LN-OF-WH Total Luminaire Output: 1956 lumens; 37.7 Watts | Efficacy: 51.9 lm/W | 95.0 CRI; 3000K CCT



CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	5104	5104	5104	
5	4807	4766	4753	429
15	2695	2727	2680	750
25	831	904	883	427
35	230	248	261	167
45	99	105	108	83
55	56	61	59	54
65	27	32	30	30
75	10	12	12	13
85	0	1	1	2
90	0	0	0	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1607	82
0 - 40	1774	91
0 - 60	1911	98
0 - 90	1956	100
0 - 180	1956	100

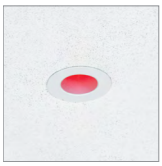
EMERGENCY BATTERY OPTIONS

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

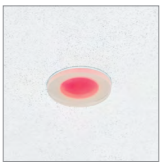
CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery [1]
EM/7W/RTS	7-watt emergency battery with regressed test switch [2]
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch [3]
EM/10W	10-watt emergency battery [1]
EM/10W/RTS	10-watt emergency battery with regressed test switch [2]
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch [3]

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

TEST SWITCH DETAILS



Regressed
ø1-3/4″

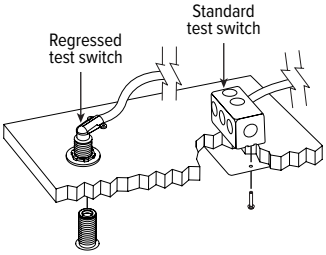


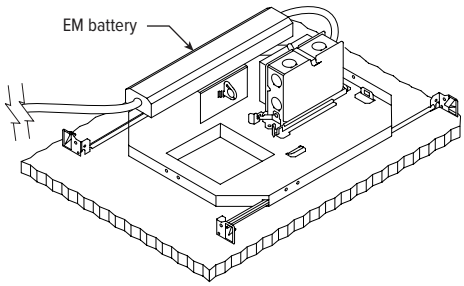
IP-Rated
ø1-3/4″

Standard
2-3/4″ x 4-1/2″

MOUNTING DETAILS

Max remote distance is 50′, connection by others.





APERTURE ADAPTOR ORDERING INFO

ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR 4DR 6DR 4DS 6DS 4FDR 6DFR 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

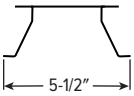
Adaptor (goof ring) corrects ceiling cutout errors during remodel downlight installation.

Additional finishes available, consult factory.

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

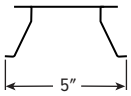
FLANGE TYPE DETAILS

1/2″ STANDARD



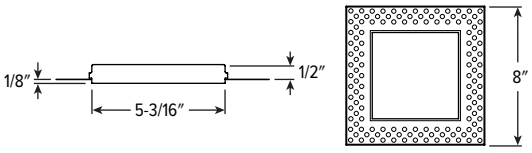
Ceiling Cutout: 5″

1/4″ MUD-IN



Ceiling cutout: 5-1/2″

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



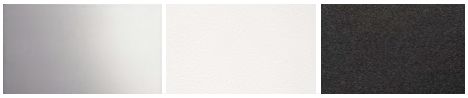
4PS dim to WARM
4.5″ Shallow Plenum Downlight – Square

REFLECTOR FINISH DETAILS

CS Clear semi-specular

WH White

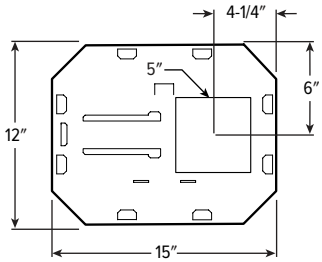
BL Black



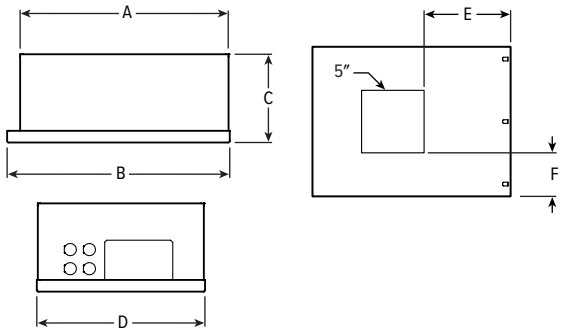
MOUNTING TYPE DETAILS

Flex conduit is recommended for installation.

NEW CONSTRUCTION



IC-RATED

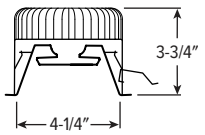


	LENGTH					
LUMENS	A	B	C	D	E	F
L7	15-1/16″	16″	4-1/2″	12-1/8″	7″	3-9/16″
L12			6-3/8″			

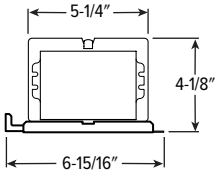
REMODEL

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

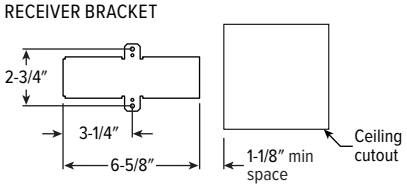
CROSS SECTION



DRIVER & JUNCTION BOX

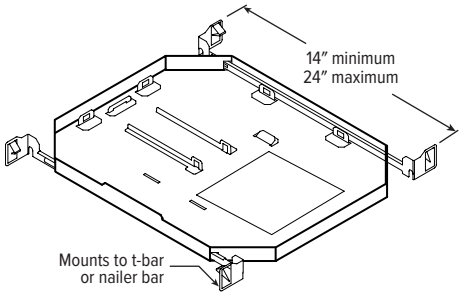


RECEIVER BRACKET

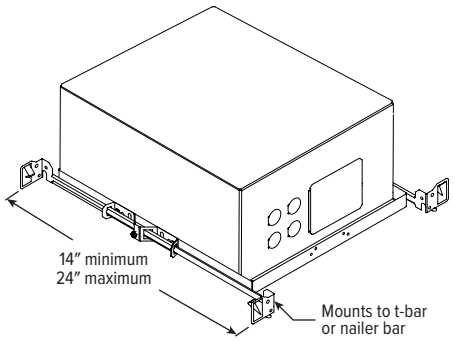


MOUNTING HARDWARE DETAILS

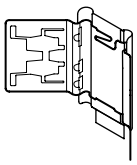
F1 Integral 2-position fixed pan bracket, universal bar hanger included



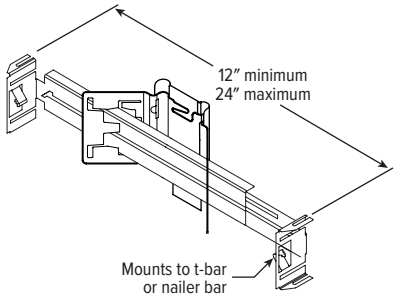
F1 with I Mounting Type



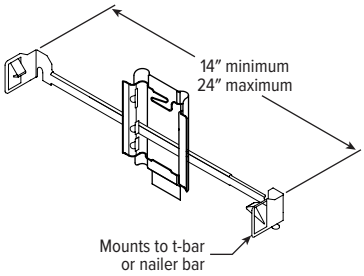
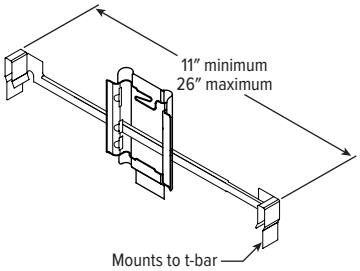
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)