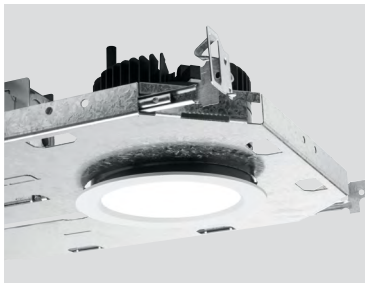
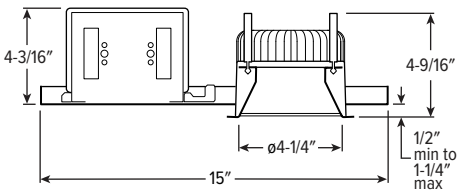
4PR dim to WARM
4.5″ Shallow Plenum Downlight – Round





CATALOG #:

TYPE:

PROJECT:

NEW CONSTRUCTION AND REMODEL

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

HOUSING

SERIES
- **4PR-TL** TrimLock

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

TRIM TYPE
- **L** Flush lens
- **A** Angled lens [7]
- **S** Non-conductive flush lens for shower applications [8]

DISTRIBUTION [6]
- **W** 65° Wide
- **M** 35° Medium
- **N** 25° Narrow

FLANGE TYPE
- **OF** 1/2″ standard flange
- **SF** 1/4″ mud-in flange [9]

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 [10]
- **PD** Diffuse 1/8″ polycarbonate lens [11]
- **WET/CC** Wet location, covered ceiling listed
- **AM** Anti-microbial [12]

MOUNTING

MOUNTING TYPE [13]
- **N** Open pan for new construction
- **I** IC-rated enclosure for new construction [15]
- **R** Remodel kit [16]

MOUNTING HARDWARE [14]
- **F1** Integral 2-position fixed pan bracket, universal bar hanger included [17]
- **BA1** Adjustable butterfly pan bracket, bar hanger not included [18]
- **CA1** Adjustable caterpillar pan bracket, universal bar hanger included [19]

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. Beam angle based on WH Reflector Finish and L Trim Type.
7. W Distribution only. AD Trim Option standard.
8. W Distribution and OF Flange Type, WH Reflector Finish only. AD, IP and WET/CC Trim Options standard.
9. 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.
10. L Trim Type only. W Distribution only.
11. W Distribution only.
12. WH and BL Reflector Finishes only. Not available with S Trim Type.
13. Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
14. Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
15. L7 and L12 lumen packages only. Not available with EM batteries.
16. Also used in new construction sheet rock ceilings. Pan-less installation.
17. N and I Mounting Types only. I Mounting requires external brackets.
18. N Mounting Type only.
19. N Mounting Type only.

4PR dim to WARM
4.5" Shallow Plenum Downlight – Round

FEATURES

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Mimic the comfortable, welcoming glow of incandescent with warm-dimming technology
- 4 inch aperture is unobtrusive in small scale spaces
- Slim 5 inch depth for minimal plenum space applications
- Beam angles ranging from 25° narrow to 65° wide for tailored performance
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Die-cast trim with flush lens provides glare-free illumination for a soft ceiling appearance
- Optional non-conductive lens for shower applications
- Fully room-side accessible
- Contemporary design provides glare-free illumination for a soft ceiling appearance

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.
- 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

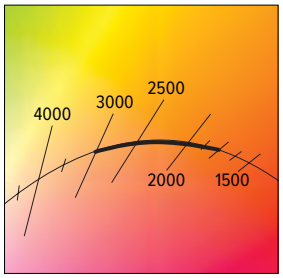
FIXTURE PERFORMANCE DATA

	DISTRIBUTION	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L7	W	668	3000K	1800K	14.0	48
	M	777			14.0	56
	N	772			14.0	55
L12	W	1171			23.4	50
	M	1363			23.4	58
	N	1353			23.4	58
L20	W	1918			37.7	51
	M	2232			37.7	59
	N	2216			37.7	59

MULTIPLIER TABLE

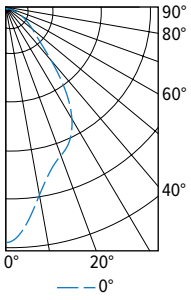
TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85

- 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

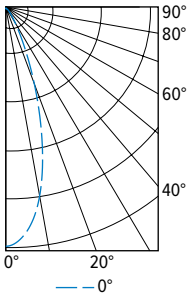
4PR-TL-L20/9DW-DIM1-UNV-LW-OF-WH Total Luminaire Output: 1918 lumens; 37.7 Watts | Efficacy: 50.9 lm/W | 95.0 CRI; 3000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	1535	
	5	1431	130
	15	1108	314
	25	970	443
	35	694	426
	45	319	255
	55	186	167
	65	109	109
	75	54	58
	85	14	17
	90	2	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1313	68
	0 - 60	1735	90
	0 - 90	1918	100
	0-180	1918	100

4PR-TL-L20/9DW-DIM1-UNV-LM-OF-WH Total Luminaire Output: 2232 lumens; 37.7 Watts | Efficacy: 59.2 lm/W | 95.0 CRI; 3000K CCT



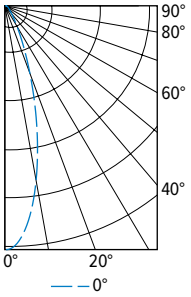
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	5244	
	5	4979	452
	15	3110	843
	25	1055	499
	35	316	207
	45	131	103
	55	68	61
	65	39	39
	75	20	21
	85	5	6
	90	1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2001	90
	0 - 60	2166	97
	0 - 90	2232	100
	0-180	2232	100

PHOTOMETRY CONTINUED ON NEXT PAGE.

4PR dim to WARM
4.5″ Shallow Plenum Downlight – Round

4PR-TL-L20/9DW-DIM1-UNV-LN-OF-WH Total Luminaire Output: 2216 lumens; 37.7 Watts | Efficacy: 58.8 lm/W | 95.0 CRI; 3000K CCT



CANDLEPOWER DISTRIBUTION		
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	7437	
5	6716	586
15	3147	860
25	841	404
35	233	154
45	110	86
55	66	60
65	40	39
75	20	21
85	5	6
90	1	

LUMEN SUMMARY		
ZONE	LUMENS	% FIXTURE
0 - 40	2004	90
0 - 60	2150	97
0 - 90	2216	100
0-180	2216	100

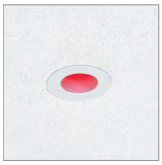
EMERGENCY BATTERY OPTIONS

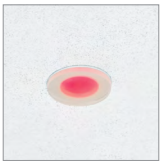
Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

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

TEST SWITCH DETAILS

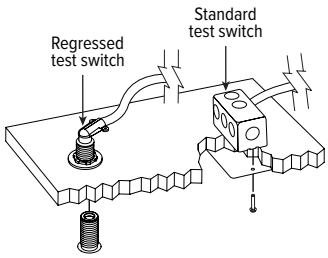

Regressed
ø1-3/4″

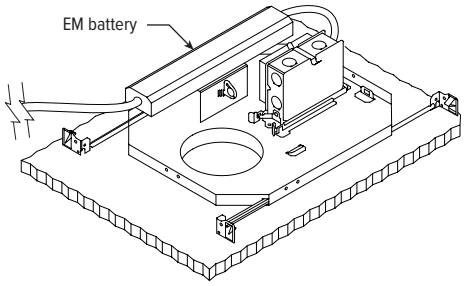

IP-Rated
ø1-3/4″

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

TRIMLOCK DETAILS

TWIST

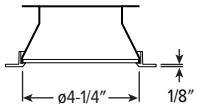
PULL

RELEASE

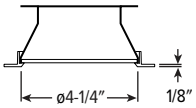
4PR dim to WARM
4.5″ Shallow Plenum Downlight – Round

TRIM TYPE DETAILS

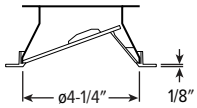
FLUSH



SHOWER

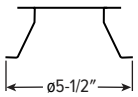


ANGLED



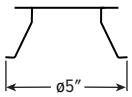
FLANGE TYPE DETAILS

1/2″ STANDARD



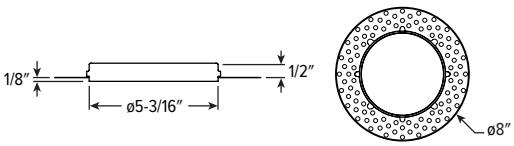
Ceiling Cutout: ø5″

1/4″ MUD-IN



Ceiling Cutout: ø5-1/2″

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)

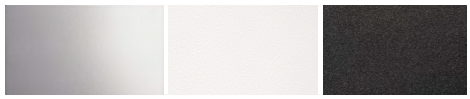


REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

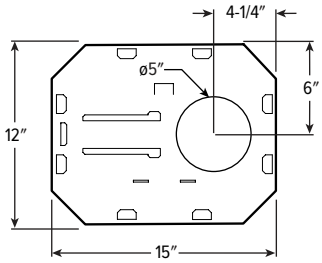
BL
Black



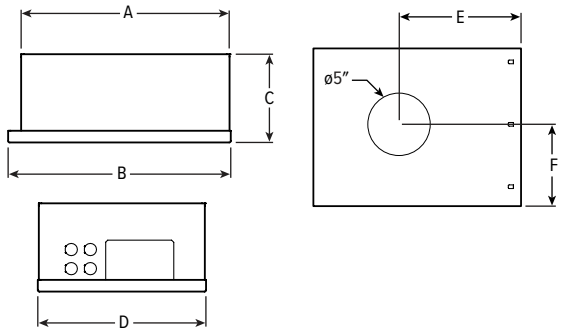
MOUNTING TYPE DETAILS

Flex conduit is recommended for installation.

NEW CONSTRUCTION



IC-RATED

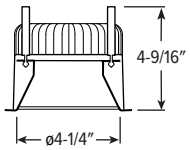


LUMENS	LENGTH					
	A	B	C	D	E	F
L7	15-1/16″	16″	4-1/2″	12-1/8″	9-1/2″	6-1/16″
L12			6-3/8″			

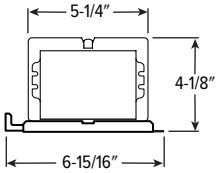
REMODEL

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

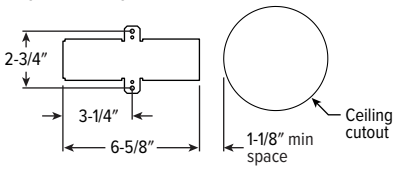
CROSS SECTION



DRIVER & JUNCTION BOX



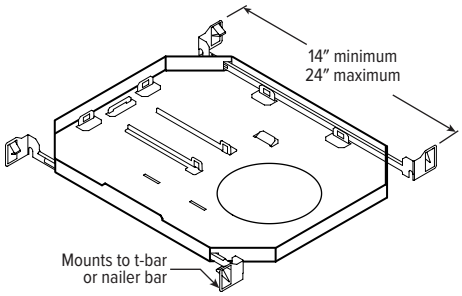
RECEIVER BRACKET



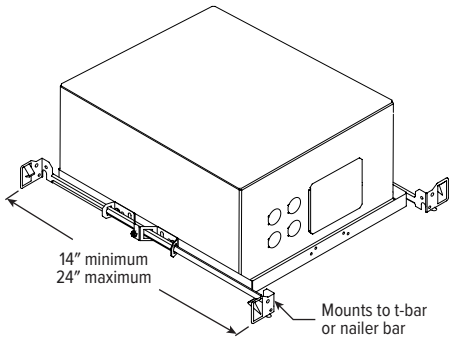
MOUNTING DETAILS CONTINUED ON NEXT PAGE.

MOUNTING HARDWARE DETAILS

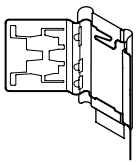
F1 Integral 2-position fixed pan bracket, universal bar hanger included



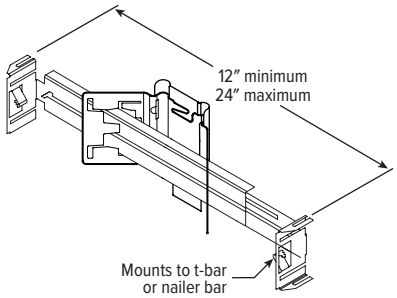
F1 with I Mounting Type



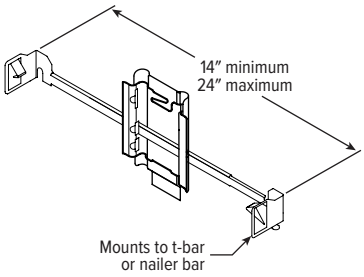
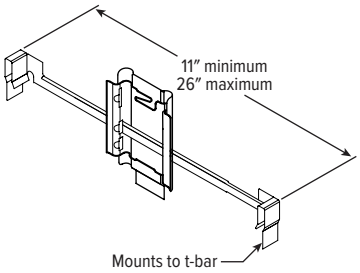
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)