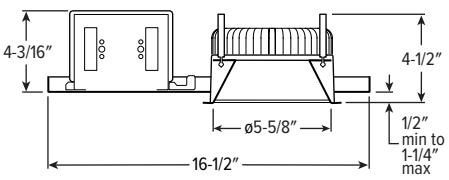
6PR dim to WARM
6" Shallow Plenum Downlight – Round



CATALOG #:

TYPE:

PROJECT:

NEW CONSTRUCTION AND REMODEL

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

ORDERING EXAMPLE: 6PR - TL - L23/9DW - OPTIONS - DIM1 - UNV - LW - OF - WH - TRIM OPTIONS - N - F1
(HOUSING | TRIM | MOUNT.)

HOUSING

SERIES
- **6PR-TL** TrimLock

LUMENS [1]
- **L8** 800lm
- **L14** 1,400lm
- **L23** 2,300lm

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]

DRIVER
- **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
- **A** Angled lens [8]
- **S** Non-conductive flush lens for shower applications [9]

DISTRIBUTION [7]
- **W** 85° Wide
- **M** 35° Medium
- **N** 25° Narrow

FLANGE TYPE
- **OF** 1/2" standard flange
- **SF** 1/4" mud-in flange [10]

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 [11]
- **PD** Diffuse 1/8" polycarbonate lens [12]
- **WET/CC** Wet location, covered ceiling listed
- **AM** Anti-microbial [13]

MOUNTING

MOUNTING TYPE [14]
- **N** Open pan for new construction
- **I** IC-rated enclosure for new construction [16]
- **R** Remodel kit [17]

MOUNTING HARDWARE [15]
- **F1** Integral 2-position fixed pan bracket, universal bar hanger included [18]
- **BA1** Adjustable butterfly pan bracket, bar hanger not included [19]
- **CA1** Adjustable caterpillar pan bracket, universal bar hanger included [20]

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.
6. Trim ships separately.
7. Beam angle based on WH Reflector Finish and L Trim Type only.
8. W Distribution only. AD Trim Option standard.
9. W Distribution, OF Flange Type, WH Reflector Finish only. AD, IP and WET/CC Trim Options standard.
10. 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.
11. L Trim Type only. W Distribution only.
12. W Distribution only.
13. WH and BL Reflector Finishes only. Not available with S Trim Type.
14. Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
15. Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
16. L8 and L14 lumen packages only. Not available with EM batteries.
17. Also used in new construction sheetrock ceilings. Pan-less installation.
18. N and I Mounting Types only. I Mounting requires external brackets.
19. N Mounting Type only.
20. N Mounting Type only.

6PR dim to WARM
6" Shallow Plenum Downlight – Round

FEATURES

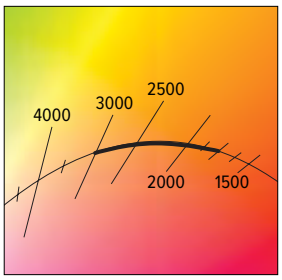
- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Mimic the comfortable, welcoming glow of incandescent with warm-dimming technology
- Slim 5" depth for minimal plenum space applications
- Beam angles ranging from 25° narrow to 85° wide for tailored performance
- Die-cast trim with flush or angled 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
- Optional non-conductive lens for shower applications
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Made Right Here® in the USA

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)
L8	W	806	3000K	1800K	14.0	58
	M	817			14.0	58
	N	825			14.0	59
L14	W	1413			23.4	60
	M	1433			23.4	61
	N	1446			23.4	62
L23	W	2314			37.7	61
	M	2347			37.7	62
	N	2369			37.7	63



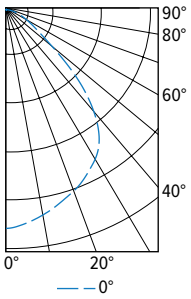
MULTIPLIER TABLE

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, O Trim Type, W Distribution and CS 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

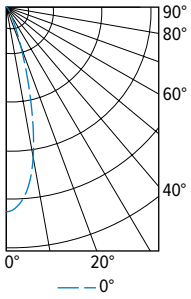
6PR-TL-L23/9DW-DIM1-UNV-LW-OF-WH Total Luminaire Output: 2314 lumens; 37.7 Watts | Efficacy: 61.4 lm/W | 95.0 CRI; 3000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	1225	
	5	1203	114
	15	1127	318
	25	1036	477
	35	901	557
	45	582	442
	55	233	218
	65	116	117
	75	53	57
	85	12	15
	90	1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1466	63
	0 - 60	2126	92
	0 - 90	2314	100
	0 - 180	2314	100

6PR-TL-L23/9DW-DIM1-UNV-LM-OF-WH Total Luminaire Output: 2347 lumens; 37.7 Watts | Efficacy: 62.3 lm/W | 95.0 CRI; 3000K CCT



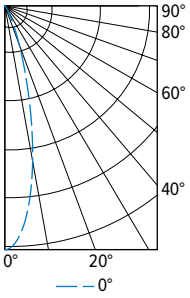
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	5398	
	5	5188	476
	15	3397	913
	25	1074	512
	35	319	209
	45	140	110
	55	73	66
	65	37	37
	75	18	19
	85	3	4
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2110	90
	0 - 60	2286	97
	0 - 90	2347	100
	0 - 180	2347	100

PHOTOMETRY CONTINUED ON NEXT PAGE.

6PR dim to WARM
6" Shallow Plenum Downlight – Round

6PR-TL-L23/9DW-DIM1-UNV-LN-OF-WH Total Luminaire Output: 2369 lumens; 37.7 Watts | Efficacy: 62.8 lm/W | 95.0 CRI; 3000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	8749	
	5	7909	686
	15	3390	933
	25	808	392
	35	223	147
	45	112	88
	55	69	62
	65	38	38
	75	17	18
	85	3	4
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2159	91
	0 - 60	2308	97
	0 - 90	2369	100
	0 - 180	2369	100

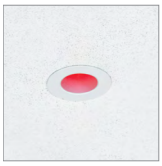
EMERGENCY BATTERY OPTIONS

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

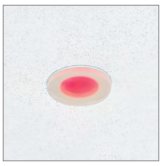
CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery [1]
EM/7W/RTS	7-watt emergency battery with regressed test switch [2]
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch [3]
EM/10W	10-watt emergency battery [1]
EM/10W/RTS	10-watt emergency battery with regressed test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

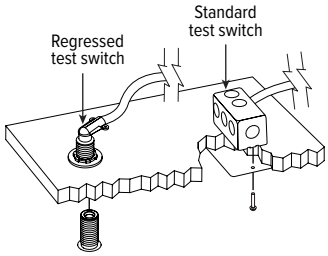


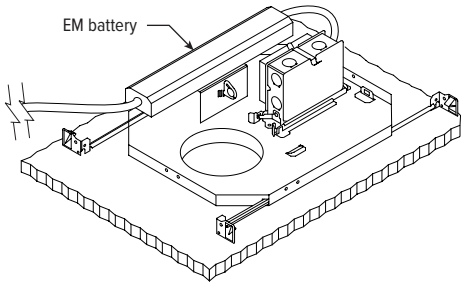
IP-Rated
ø1-3/4"

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

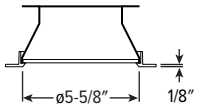
PULL

RELEASE

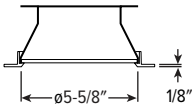
6PR dim to WARM
6" Shallow Plenum Downlight – Round

TRIM TYPE DETAILS

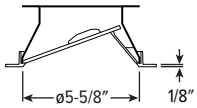
FLUSH



SHOWER

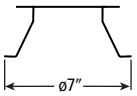


ANGLED



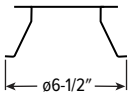
FLANGE TYPE DETAILS

1/2" STANDARD



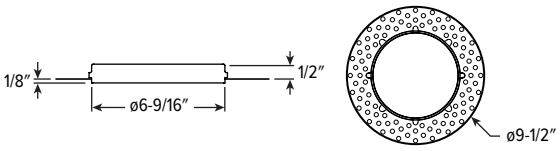
Ceiling Cutout: ø6-1/2"

1/4" MUD-IN



Ceiling cutout: ø6-3/4"

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)

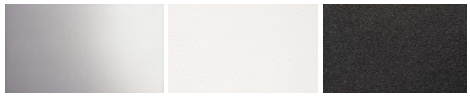


REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

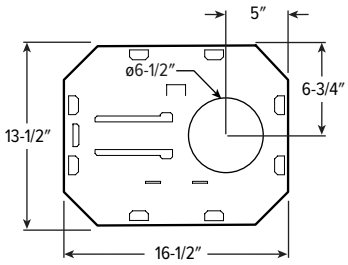
BL
Black



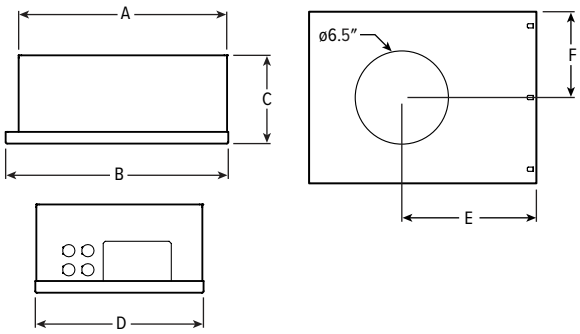
MOUNTING TYPE DETAILS

Flex conduit is recommended for installation.

NEW CONSTRUCTION



IC-RATED

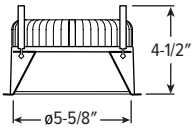


	LENGTH					
LUMENS	A	B	C	D	E	F
L8	15-1/16"	16"	4-1/2"	12-1/8"	9-1/2"	6-1/16"
L14	15-3/16"		6-3/8"			

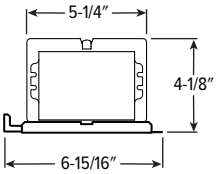
REMODEL

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

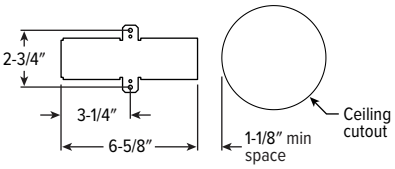
CROSS SECTION



DRIVER & JUNCTION BOX



RECEIVER BRACKET

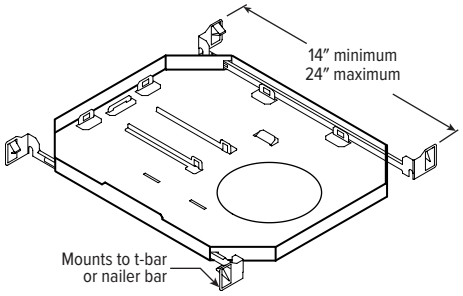


MOUNTING DETAILS CONTINUED ON NEXT PAGE

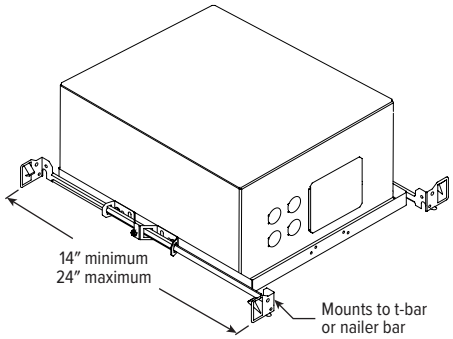
6PR dim to WARM
6" Shallow Plenum Downlight – Round

MOUNTING HARDWARE DETAILS

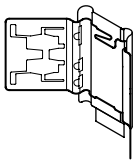
F1 Integral 2-position fixed pan bracket, universal bar hanger included



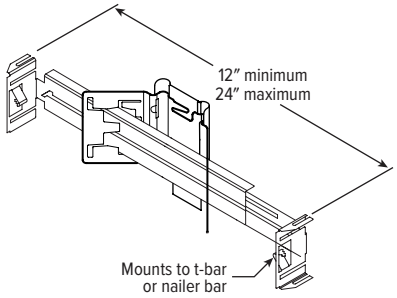
F1 with I Mounting Type



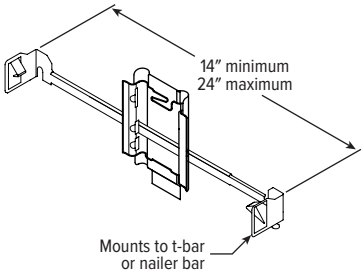
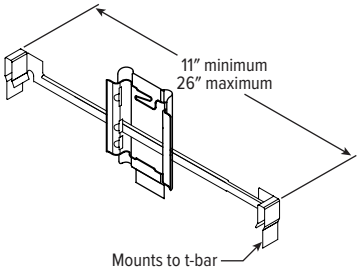
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)