4PR PoE | tunable WHITE
4.5" Shallow Plenum Downlight – Round

Williams®

CATALOG #: _____

P12 - P29: 4-9/16"
P37: 5-1/4"

ø4-1/4"
15"
1/2" min
1-1/4" max

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT · CCEA Approved · IP65 Rated · WET/CC · TrimLock®

NEW CONSTRUCTION AND REMODEL

FEATURES
- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls
- Support human-centric design with adaptive, individualized lighting using tunable white light
- 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 LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>50,000 hours. Low-voltage DC fixture, to be fed by Class 2 power supply. 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 P29 and P37 lumen packages.
- **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.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- **WARRANTY** – 5-year limited warranty, see hew.com/warranty.

SYSTEM REQUIREMENTS
- PoE-ready luminaires are connected to building power systems through network integration and require other components for complete PoE lighting system
- For additional PoE info, see hew.com/poe

ORDERING EXAMPLE: 4PR - TL - P22/835 - OPTIONS - POE PR - LW - OF - WH - TRIM OPTIONS - N - F1
├── HOUSING ──┤ ├───── TRIM ─────┤ MOUNT.

HOUSING

SERIES	LUMENS [1]	CRI	CCT	OPTIONS	CONTROL [2]
4PR - TL TrimLock	**P12** 1,200lm	**8** 80	**27** 2700K	**ATH** Airtight construction	**POE PR** Power over Ethernet-ready
	P22 2,200lm	**9** 90 [4]	**30** 3000K	**CP** Chicago plenum (CCEA) [6]	
	P29 2,900lm		**35** 3500K		
	P37 3,700lm [3]		**40** 4000K		
			50 5000K		
			TW Tunable white (80 CRI, 2700K–5000K) [5]		

TRIM [7]

TRIM TYPE	DISTRIBUTION [8]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	**W** 65° Wide	**OF** 1/2" standard flange	**CS** Clear semi-specular powder coat	**IP** IP65 rated trim
A Angled lens [9]	**M** 35° Medium	**SF** 1/4" mud-in flange [11]	**WH** White texture powder coat	**AD** Diffuse acrylic lens [12]
S Non-conductive flush lens for shower applications [10]	**N** 25° Narrow		**BL** Black texture powder coat	**PD** Diffuse 1/8" polycarbonate lens [13]
				WET/CC Wet location, covered ceiling listed
				AM Anti-microbial [14]

MOUNTING

MOUNTING TYPE [15]	MOUNTING HARDWARE [16]
N Open pan for new construction	**F1** Integral 2-position fixed pan bracket, universal bar hanger included [18]
I IC-rated enclosure for new construction	**BA1** Adjustable butterfly pan bracket, bar hanger not included [19]
R Remodel kit [17]	**CA1** Adjustable caterpillar pan bracket, universal bar hanger included [20]

NOTES
1. Lumen output based on L Trim Type, W Distribution and WH Reflector Finish, 80 CRI, 3500K for single CCT and 4000K for TW. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. For additional PoE connection details, consult factory.
3. N Mounting Type only.
4. Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
5. P12 and P22 lumen packages only.
6. I Mounting Type required. P22 lumen package max.
7. Trim ships separately.
8. Beam angle based on WH Reflector Finish and L Trim Type.
9. W Distribution only. AD Trim Option standard.
10. W Distribution, OF Flange Type and WH Reflector Finish only. AD, IP and WET/CC Trim Options standard.
11. 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.
12. L Trim Type only. W Distribution only.
13. W Distribution only.
14. WH and BL Reflector Finishes only. Not available with S Trim Type.
15. Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
16. Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
17. Also used in new construction sheetrock ceilings. Pan-less installation. P12 and P22 lumen packages only.
18. N and I Mounting Types only. I Mounting requires external brackets.
19. N Mounting Type only.
20. N Mounting Type only.

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FIXTURE PERFORMANCE DATA

STANDARD

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P12	W	1209	12.3	98.3
	M	1408	12.3	114.4
	N	1397	12.3	113.6
P22	W	2173	25.0	86.9
	M	2529	25.0	101.2
	N	2510	25.0	100.4
P29	W	2939	37.5	78.4
	M	3326	37.5	88.7
	N	3305	37.5	88.1
P37	W	3695	50.0	73.9
	M	4180	50.0	83.6
	N	4154	50.0	83.1

- Photometrics tested in accordance with IESNA LM-79. Results based on L Trim Type, W Distribution and WH Reflector Finish, and 25°C ambient temperature. Static white results based on 80 CRI/3500K CCT. Tunable white results based on 80 CRI/4000K CCT. Actual performance may vary +/-5%
- Use multiplier tables to calculate additional options.

TUNABLE WHITE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P12	W	891	12.3	72.5
	M	1016	12.3	82.6
	N	1012	12.3	82.3
P22	W	1864	25.0	74.6
	M	2116	25.0	84.6
	N	2039	25.0	81.6

MULTIPLIER TABLES

		COLOR TEMPERATURE		
	CCT	**LUMENS**		
		STANDARD	TUNABLE WHITE	
80 CRI	2700K	0.92	0.83	
	3000K	0.98	1.00	
	3500K	1.00	0.99	
	4000K	1.01	1.00	
	5000K	1.02	0.98	
90 CRI	2700K	0.76	–	
	3000K	0.79	–	
	3500K	0.82	–	
	4000K	0.84	–	
	5000K	0.88	–	

| TRIM	
CATALOG NUMBER	**CONVERSION FACTOR**
S	0.85
AD	0.85
PD	0.85
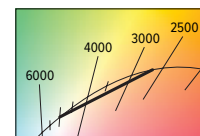
PHOTOMETRY

4PR-TL-P22/835-POE PR-LW-OF-WH Total Luminaire Output: 2173 lumens; 25.0 Watts | Efficacy: 86.9 lm/W | 80 CRI; 3500K CCT
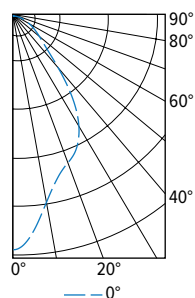
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	1740	
5	1621	148
15	1255	355
25	1100	502
35	787	482
45	361	289
55	211	190
65	123	123
75	62	66
85	15	19
90	3	

ZONE	LUMENS	% FIXTURE
0 - 40	1487	68
0 - 60	1966	90
0 - 90	2173	100
0-180	2173	100

4PR-TL-P22/835-POE PR-LM-OF-WH Total Luminaire Output: 2529 lumens; 25.0 Watts | Efficacy: 101.2 lm/W | 80 CRI; 3500K CCT
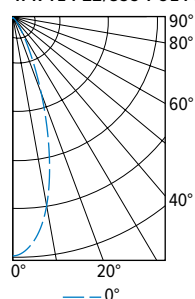
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	5941	
5	5641	512
15	3524	956
25	1196	565
35	358	234
45	148	117
55	77	70
65	44	44
75	23	24
85	6	7
90	1	

ZONE	LUMENS	% FIXTURE
0 - 40	2267	90
0 - 60	2454	97
0 - 90	2529	100
0-180	2529	100

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4PR-TL-P22/835-POE PR-LN-OF-WH Total Luminaire Output: 2510 lumens; 25.0 Watts | Efficacy: 100.4 lm/W | 80 CRI; 3500K CCT

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	8425	
5	7608	664
15	3566	974
25	953	458
35	264	174
45	124	97
55	75	68
65	45	45
75	23	24
85	5	6
90	1	
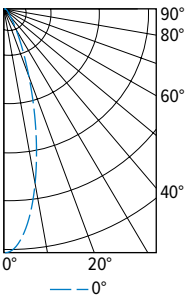
CANDLEPOWER DISTRIBUTION

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 40	2270	90
0 - 60	2435	97
0 - 90	2510	100
0-180	2510	100

APERTURE ADAPTOR ORDERING INFO

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

For use with remodel downlights.

Additional finishes available, consult factory.

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

TRIMLOCK DETAILS

TWIST

PULL

RELEASE

TRIM TYPE DETAILS

FLUSH
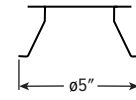ø4-1/4" 1/8"
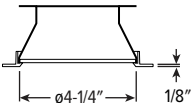
SHOWER
ø4-1/4" 1/8"
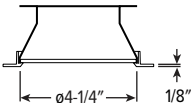
ANGLED
ø4-1/4" 1/8"
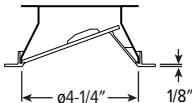
FLANGE TYPE DETAILS
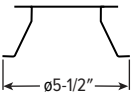
1/2" STANDARD
ø5-1/2"
Ceiling Cutout: ø5"

1/4" MUD-IN
ø5"
Ceiling Cutout: ø5-1/2"

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)
1/8" 1/2"
ø5-3/16"
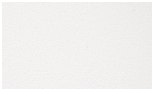ø8"
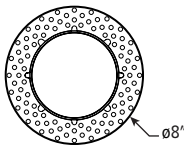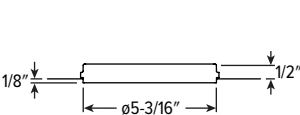
REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

BL
Black

MOUNTING DETAILS CONTINUED ON NEXT PAGE.

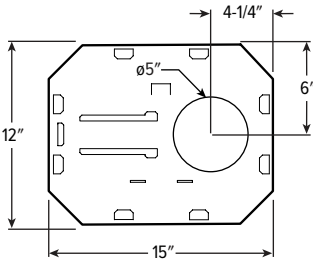H.E. Williams, Inc. ▪ Carthage, Missouri ▪ www.hew.com ▪ 417-358-4065 ▪ Designed and Manufactured in the USA
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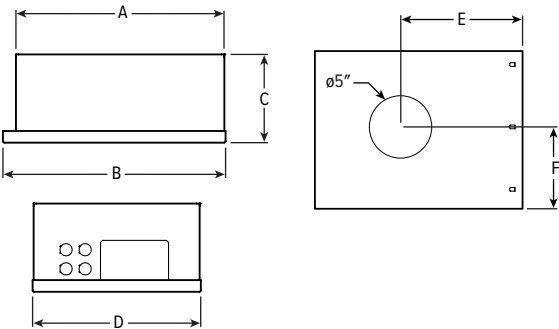Downlights
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4PR

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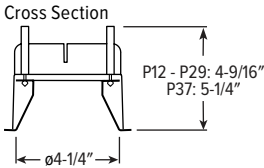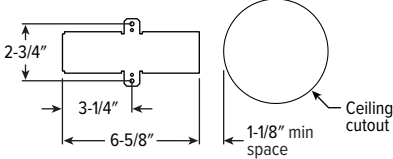
MOUNTING TYPE DETAILS

NEW CONSTRUCTION

IC-RATED

LUMENS	LENGTH					
	A	B	C	D	E	F
P12 - P22	15-1/16"	16"	4-1/2"	12-1/8"	9-1/2"	6-1/16"

REMODEL

Cross Section

P12 - P29: 4-9/16"
P37: 5-1/4"
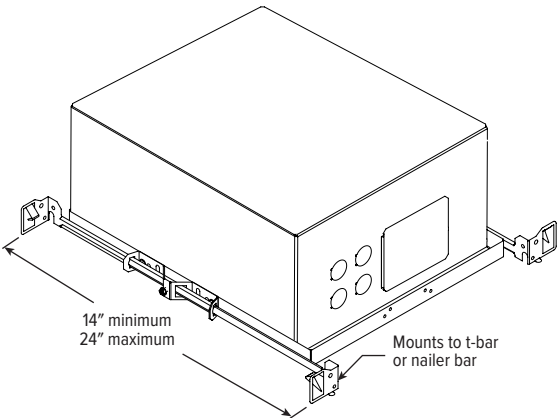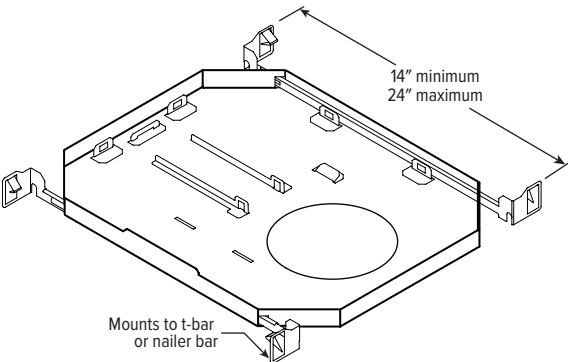
Receiver Bracket

Ceiling cutout

Driver and Junction Box
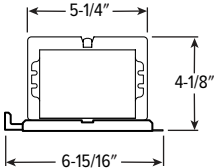
MOUNTING HARDWARE DETAILS

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

14" minimum
24" maximum

Mounts to t-bar or nailer bar

14" minimum
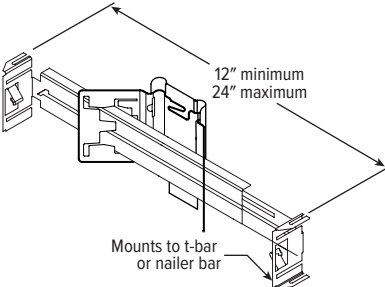24" maximum

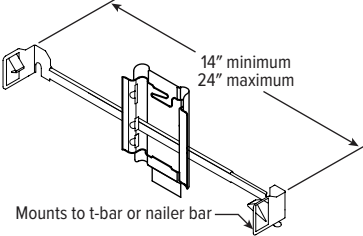Mounts to t-bar or nailer bar

F1 with I Mounting Type

BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)
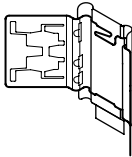
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)

12" minimum
24" maximum

Mounts to t-bar or nailer bar

CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)

14" minimum
24" maximum

Mounts to t-bar or nailer bar

CA2 Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)

11" minimum
26" maximum

Mounts to t-bar

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