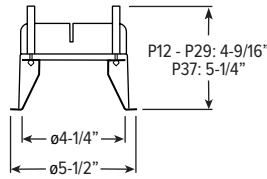


# 4PR PoE | tunable **WHITE** 4.5" Shallow Plenum Downlight – Round



CATALOG #: \_\_\_\_\_  
 TYPE: \_\_\_\_\_  
 PROJECT: \_\_\_\_\_

## NEW CONSTRUCTION AND REMODEL

### FEATURES

#### TrimLock™

- Williams TrimLock reflector retention system eliminates trim sag
- Williams turn-key Power over Ethernet (PoE) solution provides plug-and-play networked lighting and control.

### SYSTEM REQUIREMENTS

- Lighting system (site software)
- Gateway or alternate server (runs software)
- PoE switches or Ethernet switches and mid-span power injectors
- See [hew.com/poe](http://hew.com/poe) for details

### 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, tempered glass 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. Marked spacing restrictions apply for P37, consult factory.
- LISTINGS** –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for 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.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

ORDERING EXAMPLE:<sup>(1)</sup> **4PR - TL - P22/835 - OPTIONS - POE N - LW - OF - WH - TRIM OPTIONS - N - F1**

### HOUSING

SERIES	LUMENS <sup>(2)</sup>	CRI	CCT	OPTIONS	ACCESSORIES	CONTROL <sup>(3)</sup>
4PR - TL TrimLock	P12 1,200lm	8 80	27 2700K	<b>ATH</b> Airtight construction <sup>(5)</sup>	See <a href="http://hew.com/poe">hew.com/poe</a> for compatible sensors & switches	<b>POE N</b> Power over Ethernet network node
	P22 2,200lm	9 90	30 3000K	<b>CP</b> Chicago plenum (CCEA) <sup>(6)</sup>		<b>POE D</b> Power over Ethernet device node
	P29 2,900lm		35 3500K	<b>F</b> Fuse kit		
	P37 3,700lm <sup>(4)</sup>		40 4000K TW Tunable white (80 CRI, 2700K–5000K)			

### TRIM

TRIM TYPE	DISTRIBUTION <sup>(7)</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
<b>L</b> Flush lens	<b>W</b> 65° Wide	<b>OF</b> 1/2" standard flange	<b>WH</b> White texture powder coat	<b>IP</b> IP65 rated trim
<b>A</b> Angled lens <sup>(8)</sup>	<b>M</b> 35° Medium	<b>SF</b> 1/4" mud-in flange <sup>(10)</sup>	<b>BL</b> Black texture powder coat	<b>AD</b> Diffuse acrylic lens <sup>(11)</sup>
<b>S</b> Non-conductive flush lens for shower applications <sup>(9)</sup>	<b>N</b> 25° Narrow			<b>WET/CC</b> Wet location, covered ceiling listed

### MOUNTING

#### MOUNTING TYPE <sup>(12)</sup>

- N** Open pan for new construction
- I** IC-rated enclosure for new construction <sup>(14)</sup>
- R** Remodel kit <sup>(15)</sup>

#### MOUNTING HARDWARE <sup>(13)</sup>

- F1** 2-Position fixed pan bracket, universal bar hanger included
- F2** 2-Position fixed pan bracket, t-bar bar hanger included
- BA1** Adjustable butterfly pan bracket, bar hanger not included <sup>(16)</sup>
- BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included <sup>(17)</sup>
- CA1** Adjustable caterpillar pan bracket, universal bar hanger included
- CA2** Adjustable caterpillar pan bracket, t-bar hanger included

### NOTES

- Housing, trim, and mounting ship separately.
- Static white lumen output based on L trim type, W distribution and WH finish, 3500K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- For additional PoE info, see [hew.com/poe](http://hew.com/poe)
- Not available with Tunable White; N Mounting Type only.
- I Mounting Type required.
- I Mounting Type required. P22 lumen package max.
- Beam angle based on WH reflector finish and L Trim Type.
- Wide distribution only.
- W Distribution, OF Flange Type and WH Reflector Finish only. Only available with AD diffuse acrylic lens, standard. IP and WET/CC options standard.
- For use with mud-in plaster construction only, supplied with mud flange installation kit, see page 3 for FLANGE TYPE DETAILS, not available with CP, ATH or IP options.
- L Trim Type only. Wide distribution only.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
- Specify for N and I Mounting Types only, see page 4 for MOUNTING HARDWARE DETAILS.
- P22 lumen package max.
- Also used in new construction sheetrock ceilings.
- N Mounting Type only.
- N Mounting Type only.



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

## FIXTURE PERFORMANCE DATA

### STANDARD

#### FLUSH TRIM TYPE

LED PACKAGE	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

### TUNABLE WHITE

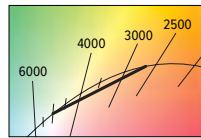
#### FLUSH TRIM TYPE

LED PACKAGE	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
P29	W	3184	43.5	73.2
	M	3612	43.5	83.0
	N	3483	43.5	80.1

### MULTIPLIER TABLES

STANDARD		
	CCT	LUMENS
80 CRI	2700K	0.95
	3000K	0.96
	3500K	1.00
	4000K	1.01
90 CRI	2700K	0.74
	3000K	0.85
	3500K	0.90
	4000K	0.91

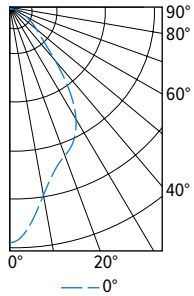
TUNABLE WHITE		
	CCT	LUMENS
80 CRI	2700K	0.83
	3000K	1.00
	3500K	0.99
	4000K	1.00
	5000K	0.98



- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Standard results based on 3500K/80 CRI, actual lumens may vary +/-5%
- Tunable white results based on 4000K/80 CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

### PHOTOMETRY

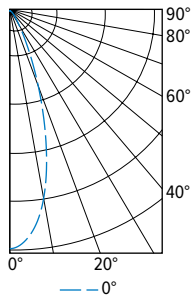
4PR-TL-P22/835-DIM-POE-LW-OF-WH Total Luminaire Output: 2173 lumens; 25.0 Watts | Efficacy: 86.9 lm/W | 82.7 CRI; 3565K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	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	

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

4PR-TL-P22/835-DIM-POE-LM-OF-WH Total Luminaire Output: 2529 lumens; 25.0 Watts | Efficacy: 101.2 lm/W | 82.7 CRI; 3560K CCT



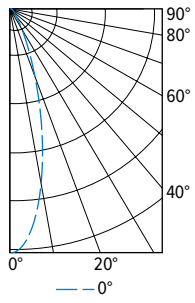
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	5941	
	5	5641	512
	15	3524	956
	25	1196	565
	35	358	234
	45	148	117
	55	77	70
	65	44	44
	75	23	24
	85	6	7
	90	1	

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



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

4PR-TL-P22/835-DIM-POE-LN-OF-WH Total Luminaire Output: 2510 lumens; 25.0 Watts | Efficacy: 100.4 lm/W | 82.6 CRI; 3545K CCT



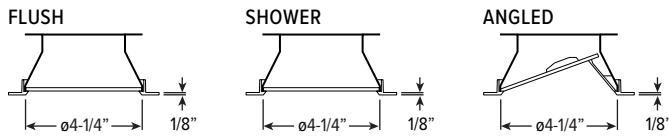
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS									
	0	5	15	25	35	45	55	65	75	85	90	
		8425	7608	3566	953	264	124	75	45	23	5	1

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

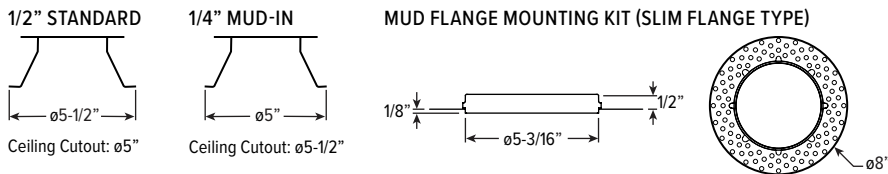
## TRIMLOCK DETAILS



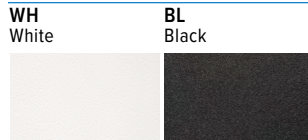
## TRIM TYPE DETAILS



## FLANGE TYPE DETAILS



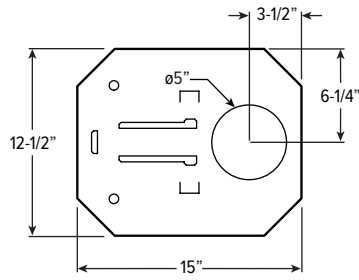
## REFLECTOR FINISH DETAILS



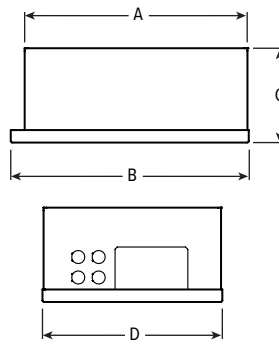
# 4PR PoE | tunable WHITE 4.5" Shallow Plenum Downlight – Round

## MOUNTING TYPE DETAILS

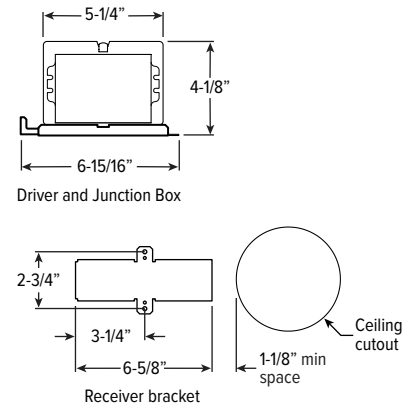
### NEW CONSTRUCTION



### IC-RATED



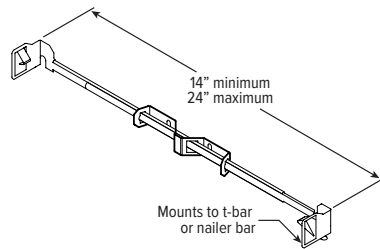
### REMODEL



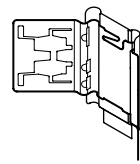
LUMENS	LENGTH			
	A	B	C	D
P12 - P22	15-1/16"	16"	4-1/2"	12-1/8"

## MOUNTING HARDWARE DETAILS

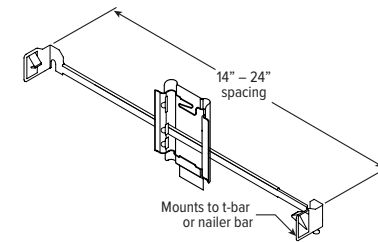
**F1** 2-Position fixed pan bracket, universal bar hanger included



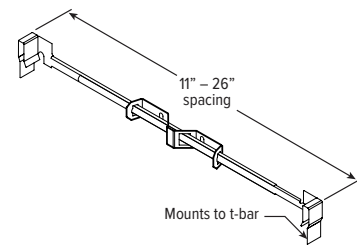
**BA1** Adjustable butterfly pan bracket, bar hanger not included



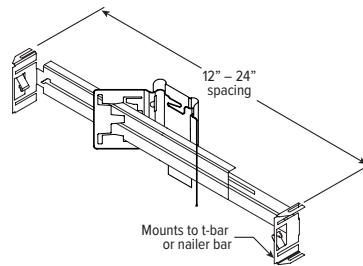
**CA1** Adjustable caterpillar pan bracket, universal bar hanger included



**F2** 2-Position fixed pan bracket, t-bar bar hanger included



**BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included



**CA2** Adjustable caterpillar pan bracket, t-bar hanger included

