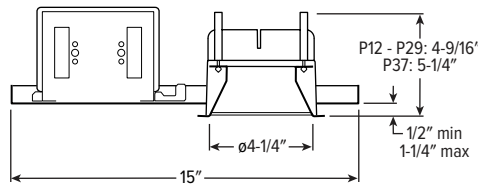
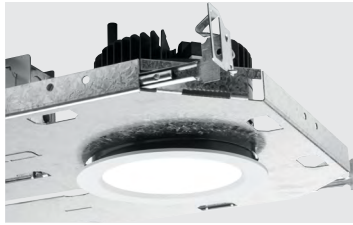


# 4PR PoE | tunable WHITE

## 4.5" Shallow Plenum Downlight – Round



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

### NEW CONSTRUCTION AND REMODEL

#### FEATURES

##### TrimLock®

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- 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. 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 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: 4PR - TL - P22/835 - OPTIONS - POE N - LW - OF - WH - TRIM OPTIONS - N - F1

#### HOUSING

SERIES	LUMENS <sup>[1]</sup>	CRI	CCT	OPTIONS <sup>[2]</sup>	CONTROL <sup>[3]</sup>
4PR - TL	P12 1,200lm	8 80	27 2700K	ATH Airtight construction	POE N Power over Ethernet network node
TrimLock	P22 2,200lm	9 90 <sup>[6]</sup>	30 3000K	CP Chicago plenum (CCEA) <sup>[7]</sup>	POE D Power over Ethernet device node
	P29 2,900lm <sup>[4]</sup>		35 3500K		
	P37 3,700lm <sup>[5]</sup>		40 4000K		
			50 5000K		
			TW Tunable white (80 CRI, 2700K–5000K)		

#### TRIM<sup>[8]</sup>

TRIM TYPE	DISTRIBUTION <sup>[9]</sup>	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 <sup>[10]</sup>	M 35° Medium	SF 1/4" mud-in flange <sup>[12]</sup>	WH White texture powder coat	AD Diffuse acrylic lens <sup>[13]</sup>
S Non-conductive flush lens for shower applications <sup>[11]</sup>	N 25° Narrow		BL Black texture powder coat	PD Diffuse 1/8" polycarbonate lens <sup>[14]</sup>
				WET/CC Wet location, covered ceiling listed
				AM Anti-microbial <sup>[15]</sup>

#### MOUNTING

##### MOUNTING TYPE<sup>[16]</sup>

- N Open pan for new construction
- I IC-rated enclosure for new construction
- R Remodel kit<sup>[18]</sup>

##### MOUNTING HARDWARE<sup>[17]</sup>

- F1 Integral 2-position fixed pan bracket, universal bar hanger included<sup>[19]</sup>
- BA1 Adjustable butterfly pan bracket, bar hanger not included<sup>[20]</sup>
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included<sup>[21]</sup>

#### NOTES

- 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.
- See [hew.com/poe](http://hew.com/poe) for compatible sensors & switches.
- For additional PoE info, see [hew.com/poe](http://hew.com/poe).
- Not available with Tunable White.
- Not available with Tunable White; N Mounting Type only.
- Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
- I Mounting Type required. P22 lumen package max.
- Trim ships separately.
- Beam angle based on WH reflector finish and L Trim Type.
- Wide distribution only. Diffuse acrylic lens standard.
- W Distribution, OF Flange Type and WH Reflector Finish only. Standard with AD diffuse acrylic lens. 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 ATH or IP options.
- L Trim Type only. W distribution only.
- W distribution only.
- WH and BL Reflector Finishes only. Not available with S Trim Type.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- Also used in new construction sheetrock ceilings. P22 lumen package max.
- N and I Mounting Types only.
- N Mounting Type only.
- N Mounting Type only.



# 4PR PoE | tunable WHITE

## 4.5" Shallow Plenum Downlight – Round

### 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 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.

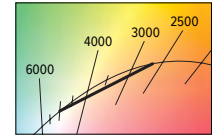
#### TUNABLE WHITE

	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

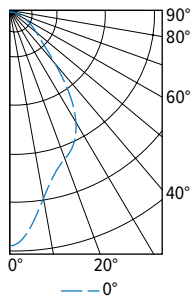
	COLOR TEMPERATURE		
	CCT	LUMENS	
		STANDARD	TUNABLE WHITE
80 CRI	2700K	0.92	0.83
	3000K	0.98	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
	5000K	1.02	0.98
90 CRI	2700K	0.76	-
	3000K	0.79	-
	3500K	0.82	-
	4000K	0.84	-
	5000K	0.88	-

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85



### PHOTOMETRY

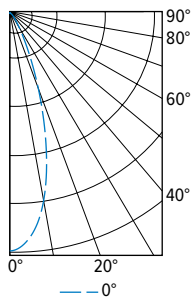
4PR-TL-P22/835-DIM-POE-LW-OF-WH Total Luminaire Output: 2173 lumens; 25.0 Watts | Efficacy: 86.9 lm/W | 82.7 CRI; 3565K CCT



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



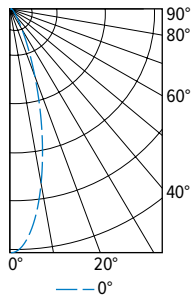
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	5941	
	5	5641	512
	15	3524	956
	25	1196	565
	35	358	234
	45	148	117
	55	77	70
	65	44	44
	75	23	24
	85	6	7
	90	1	

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	ZONAL LUMENS
		0°	
	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	

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

## TRIMLOCK DETAILS

**TWIST**



**PULL**

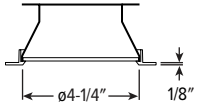


**RELEASE**

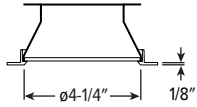


## TRIM TYPE DETAILS

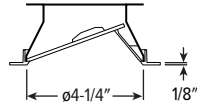
**FLUSH**



**SHOWER**

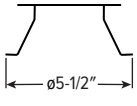


**ANGLED**



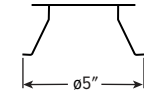
## FLANGE TYPE DETAILS

**1/2" STANDARD**



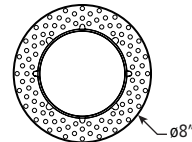
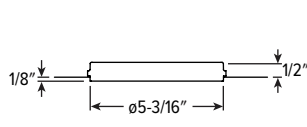
Ceiling Cutout:  $\phi 5"$

**1/4" MUD-IN**



Ceiling Cutout:  $\phi 5-1/2"$

**MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)**



## REFLECTOR FINISH DETAILS

**CS**

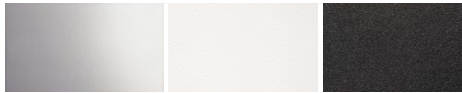
Clear semi-specular

**WH**

White

**BL**

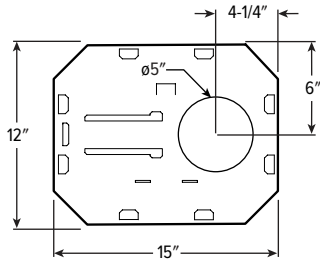
Black



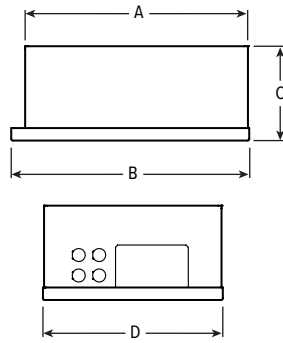
# 4PR PoE | tunable WHITE 4.5" Shallow Plenum Downlight – Round

## MOUNTING TYPE DETAILS

### NEW CONSTRUCTION

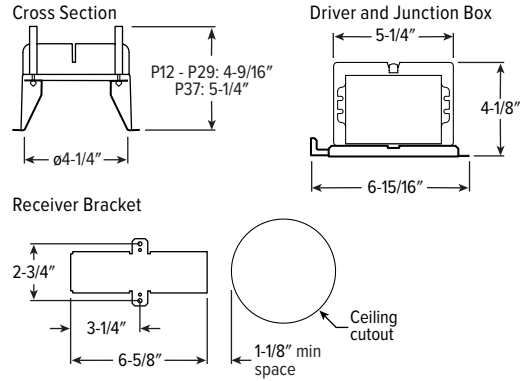


### IC-RATED



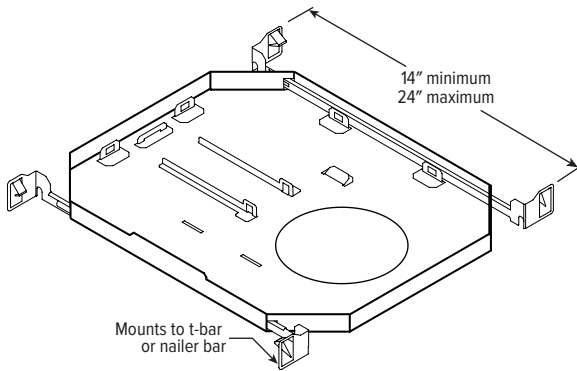
LUMENS	LENGTH			
	A	B	C	D
P12 - P22	15-1/16"	16"	4-1/2"	12-1/8"

### REMODEL

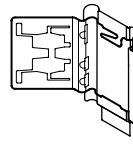


## MOUNTING HARDWARE DETAILS

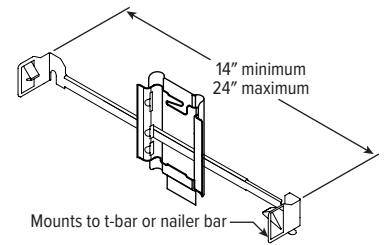
**F1** Integral 2-position fixed pan bracket, universal bar hanger included



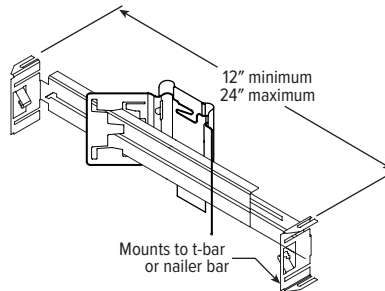
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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



**BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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

