

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.
- 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> **6PR - TL - P98/835 - OPTIONS - POE N - LW - OF - WH - TRIM OPTIONS - N - F1**  
 HOUSING TRIM MOUNT

### HOUSING

SERIES	LUMENS <sup>[2]</sup>	CRI	CCT	OPTIONS	ACCESSORIES	CONTROL <sup>[3]</sup>
<b>6PR - TL</b>	<b>P15</b> 1,500lm	<b>8</b> 80	<b>27</b> 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
TrimLock	<b>P29</b> 2,900lm	<b>9</b> 90	<b>30</b> 3000K	<b>CP</b> Chicago plenum (CCEA) <sup>[6]</sup>		
	<b>P41</b> 4,100lm		<b>35</b> 3500K	<b>F</b> Fuse kit		<b>POE D</b> Power over Ethernet device node
	<b>P54</b> 5,400lm <sup>[4]</sup>		<b>40</b> 4000K	<b>TW</b> 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> 85° 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 <sup>[10]</sup>	<b>SF</b> 1/4" mud-in flange <sup>[12]</sup>	<b>BL</b> Black texture powder coat	<b>AD</b> Diffuse acrylic lens <sup>[13]</sup>
<b>S</b> Non-conductive flush lens for shower applications <sup>[9]</sup>	<b>N</b> 25° Narrow <sup>[11]</sup>			<b>WET/CC</b> Wet location, covered ceiling listed

### MOUNTING

#### MOUNTING TYPE<sup>[14]</sup>

- N** Open pan for new construction
- I** IC-rated enclosure for new construction<sup>[16]</sup>
- R** Remodel kit<sup>[17]</sup>

#### MOUNTING HARDWARE<sup>[15]</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>[18]</sup>
- BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included<sup>[19]</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 FIXTURE PERFORMANCE DATA.
- For additional PoE info, see [hew.com/poe](http://hew.com/poe)
- Not available with Tunable White. Marked spacing restrictions apply, consult factory. N Mounting Type only.
- I Mounting Type required.
- I Mounting Type required. P29 lumen package max.
- Beam angle based on WH reflector finish.
- 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.
- Not available with lumen stop P54.

- Not available with lumen stop P54.
- 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.
- 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.
- P29 lumen package max.
- Also used in new construction sheetrock ceilings.
- N Mounting Type only.
- N Mounting Type only.



# 6PR PoE | tunable WHITE

## 6" Shallow Plenum Downlight – Round

### FIXTURE PERFORMANCE DATA

#### STANDARD

##### FLUSH TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P15	W	1459	12.3	118.6
	M	1480	12.3	120.3
	N	1493	12.3	121.4
P29	W	2888	25.0	115.5
	M	2928	25.0	117.0
	N	2957	25.0	118.3
P41	W	4131	37.5	110.1
	M	4150	37.5	110.7
	N	4044	37.5	107.8
P54	W	5434	50.0	108.7
	M	5460	50.0	109.2
	N	5320	50.0	106.4

#### TUNABLE WHITE

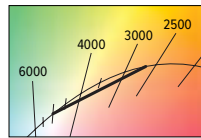
##### FLUSH TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P15	W	910	12.3	74.0
	M	875	12.3	71.1
	N	844	12.3	68.6
P29	W	1912	25.0	76.5
	M	1838	25.0	73.5
	N	1772	25.0	70.9
P41	W	3265	43.5	75.1
	M	3139	43.5	72.2
	N	3026	43.5	69.6

#### 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

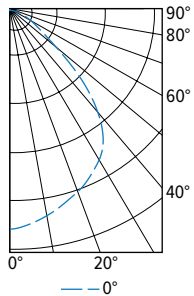
TUNABLE WHITE		
	CCT	LUMENS
80 CRI	2700K	0.83
	3000K	1.00
	3500K	0.99
	4000K	1.00
	5000K	0.98



- 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

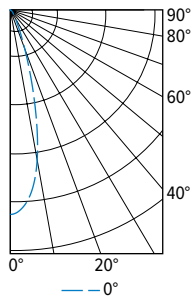
6PR-TL-P29/835-DIM-POE-LW-OF-WH Total Luminaire Output: 2888 lumens; 25.0 Watts | Efficacy: 115.5 lm/W | 81.8 CRI; 3647K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1529	
	5	1502	142
	15	1406	397
	25	1293	596
	35	1124	695
	45	727	552
	55	291	272
	65	145	146
	75	66	71
	85	15	18
	90	1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1830	63
	0 - 60	2653	92
	0 - 90	2888	100
	0 - 180	2888	100

6PR-TL-P29/835-DIM-POE-LM-OF-WH Total Luminaire Output: 2928 lumens; 25.0 Watts | Efficacy: 117.0 lm/W | 81.7 CRI; 3644K CCT



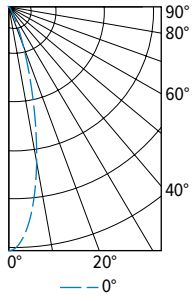
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	6736	
	5	6473	594
	15	4238	1139
	25	1340	639
	35	398	261
	45	175	138
	55	91	83
	65	47	47
	75	22	23
	85	4	5
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2632	90
	0 - 60	2853	97
	0 - 90	2928	100
	0 - 180	2928	100



# 6PR PoE | tunable **WHITE** 6" Shallow Plenum Downlight – Round

6PR-TL-P29/835-DIM-POE-LN-OF-WH Total Luminaire Output: 2957 lumens; 25.0 Watts | Efficacy: 118.3 lm/W | 81.6 CRI; 3629K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0		10919
5		9871	856
15		4231	1164
25		1008	490
35		278	183
45		140	110
55		86	77
65		48	48
75		21	23
85		4	5
90		1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2694	91
	0 - 60	2881	97
	0 - 90	2957	100
	0 - 180	2957	100

## TRIMLOCK DETAILS

**TWIST**



**PULL**

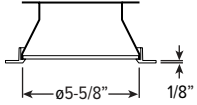


**RELEASE**

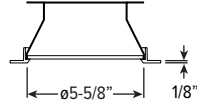


## TRIM TYPE DETAILS

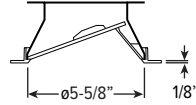
**FLUSH**



**SHOWER**

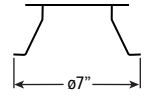


**ANGLED**



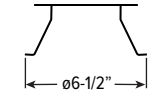
## FLANGE TYPE DETAILS

**1/2" STANDARD**



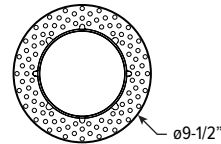
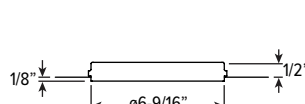
Ceiling Cutout:  $\phi 6-1/2"$

**1/4" MUD-IN**



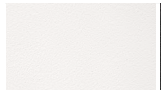
Ceiling cutout:  $\phi 6-3/4"$

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



## REFLECTOR FINISH DETAILS

**WH**  
White



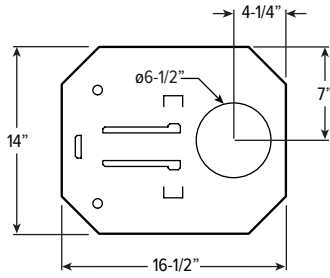
**BL**  
Black



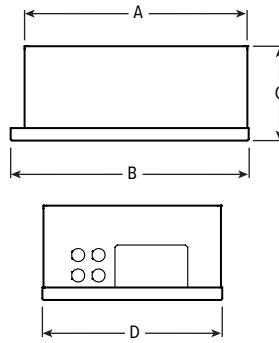
# 6PR PoE | tunable WHITE 6" Shallow Plenum Downlight – Round

## MOUNTING TYPE DETAILS

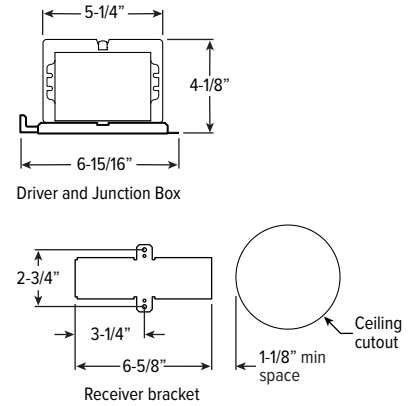
### NEW CONSTRUCTION



### IC-RATED



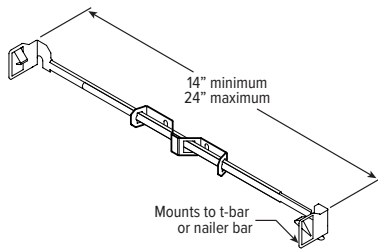
### REMODEL



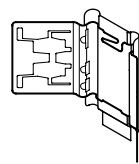
LUMENS	LENGTH			
	A	B	C	D
P15	15-1/16"	16"	4-1/2"	12-1/8"
P29	15-3/16"	16"	6-3/8"	12-1/8"

## MOUNTING HARDWARE DETAILS

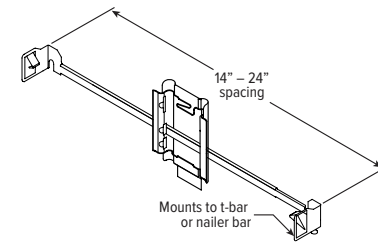
**F1** 2-Position fixed pan bracket, universal bar hanger included



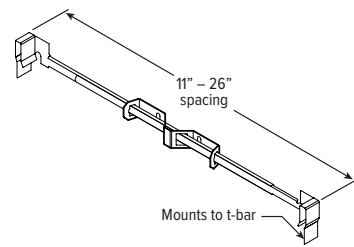
**BA1** Adjustable butterfly pan bracket, bar hanger not included



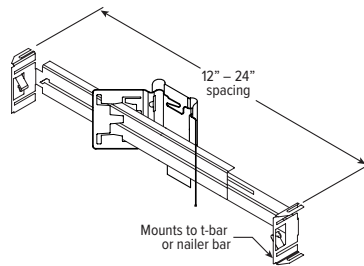
**CA1** Adjustable caterpillar pan bracket, universal bar hanger included



**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

