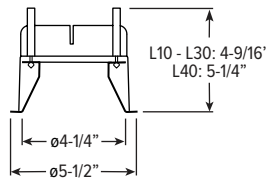


# 4PR LED 4.5" Shallow Plenum Downlight – Round



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

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

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

## NEW CONSTRUCTION AND REMODEL

### FEATURES

#### TrimLock™

- Williams TrimLock reflector retention system eliminates trim sag
- Die cast trim with flush lens provides glare-free illumination for a soft ceiling appearance
- Industry-leading efficacies as high as 100 lm/W – ENERGY STAR® certified
- Fully room-side accessible

### 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.
- LENS** – Die-cast aluminum frame with micro-prismatic, tempered glass 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. Minimum 24" O.C. marked spacing required for L30 lumen package.
- 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.
  - ENERGY STAR® certified in select configurations, see [www.energystar.gov](http://www.energystar.gov)
  - 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 - L20/835 - OPTIONS - DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

HOUSING TRIM MOUNT.

### HOUSING

SERIES	LUMENS <sup>(2)</sup>	CRI	CCT	OPTIONS	DRIVER <sup>(3)</sup>	VOLTAGE
4PR - TL	L10 1,000lm	8 80	27 2700K	EM/10W 10-watt emergency battery <sup>(4)</sup>	DIM Dimming driver, 0-10V	UNV 120-277V
TrimLock	L15 1,500lm	9 90	30 3000K	ATH Airtight construction <sup>(5)</sup>	DIM1 1% Dimming driver, 0-10V	347 347V <sup>(8)</sup>
	L20 2,000lm	35 3500K	40 4000K	CP Chicago plenum (CCEA) <sup>(6)</sup>		
	L30 3,000lm			F Fuse kit		
				SDT Stepdown transformer <sup>(7)</sup>		

### TRIM

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 <sup>(15)</sup>

### MOUNTING

#### MOUNTING TYPE<sup>(16)</sup>

- N Open pan for new construction
- I IC-rated enclosure for new construction<sup>(18)</sup>
- R Remodel kit<sup>(19)</sup>

#### MOUNTING HARDWARE<sup>(17)</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>(20)</sup>
- BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included<sup>(21)</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.
- 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 page 3 for ADDITIONAL DRIVER OPTIONS.
- N Mounting Type only.
- I Mounting Type required.
- I Mounting Type required.
- May be required for 347V, see product builder at [hew.com](http://hew.com).
- Not available with EM batteries.
- 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.
- L Trim Type only. Wide distribution only.
- Reduces lumen output, use .85 multiplier.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Specify for N and I Mounting Types only, see page 4 for MOUNTING HARDWARE DETAILS.
- L20 lumen package max.
- Also used in new construction sheetrock ceilings.
- N Mounting Type only.
- N Mounting Type only.



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## FIXTURE PERFORMANCE DATA

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	921	10.7	85.9
	M	1072	10.7	100.0
	N	1064	10.7	99.2
L15	W	1405	16.7	84.1
	M	1636	16.7	97.9
	N	1624	16.7	97.1
L20	W	1830	22.8	80.4
	M	2130	22.8	93.6
	N	2114	22.8	92.9
L30	W	3127	46.6	67.1
	M	3538	46.6	75.9
	N	3516	46.6	75.5

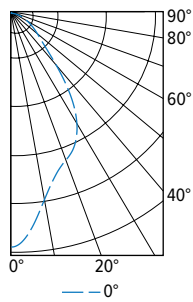
## MULTIPLIER TABLES

		COLOR TEMPERATURE	
		CCT	CONVERSION FACTOR
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	

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

## PHOTOMETRY

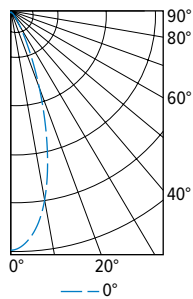
4PR-TL-L20/835-DIM-UNV-LW-OF-WH Report #: 12316380.29 ; 06/12/18 | Total Luminaire Output: 1830 lumens; 22.8 Watts | Efficacy: 80.4 lm/W | 82.7 CRI; 3565K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1465	
	5	1365	91
	15	1057	167
	25	926	222
	35	663	187
	45	304	10
	55	178	73
	65	104	45
	75	52	22
	85	13	4
	90	2	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1253	69
	0 - 60	1656	91
	0 - 90	1830	100
	0-180	1830	100

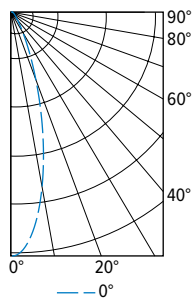
4PR-TL-L20/835-DIM-UNV-LM-OF-WH Report #: 12316380.31; 06/13/18 | Total Luminaire Output: 2130 lumens; 22.8 Watts | Efficacy: 93.6 lm/W | 82.7 CRI; 3560K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	5004	
	5	4751	315
	15	2968	390
	25	1007	187
	35	302	79
	45	125	42
	55	64	26
	65	37	16
	75	19	8
	85	5	2
	90	1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1910	90
	0 - 60	2067	97
	0 - 90	2130	100
	0-180	2130	100

4PR-TL-L20/835-DIM-UNV-LN-OF-WH Report #: 12316380.32; 06/13/18 | Total Luminaire Output: 2114 lumens; 22.8 Watts | Efficacy: 92.9 lm/W | 82.6 CRI; 3545K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	7096	
	5	6408	398
	15	3003	366
	25	802	144
	35	222	59
	45	105	37
	55	63	26
	65	38	17
	75	19	8
	85	4	1
	90	1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1912	90
	0 - 60	2051	97
	0 - 90	2114	100
	0-180	2114	100



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## ADDITIONAL DRIVER OPTIONS

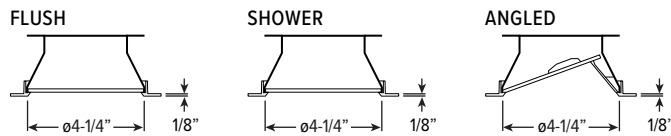
Lumen restrictions apply: L20 max for DMX driver, L20 max for Lutron drivers. 347V may require stepdown transformer, see product builder at [hew.com](http://hew.com).

CATALOG NUMBER	DESCRIPTION
<b>DIM</b>	Dimming driver prewired for 0-10V low voltage applications
<b>DIM1</b>	1% dimming driver prewired for 0-10V low voltage applications
<b>DMX</b>	0.1% dimming driver for DMX controls
<b>LTE LINE</b>	Lutron Hi-Lume® A-Series 1% dimming driver for forward phase line voltage controls (120V only)
<b>LDE1</b>	Lutron EcoSystem® H-Series 1% dimming driver for EcoSystem® controls
<b>LDE5</b>	Lutron EcoSystem® 5-Series 5% dimming driver for EcoSystem® controls
<b>ELDO SOLOB</b>	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
<b>ELDO SOLOB DALI</b>	EldoLED Solodrive, 0.1% dimming driver for DALI controls
<b>ELDO ECO1</b>	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
<b>ELDO ECO1 DALI</b>	EldoLED Ecodrive, 1% dimming driver for DALI controls

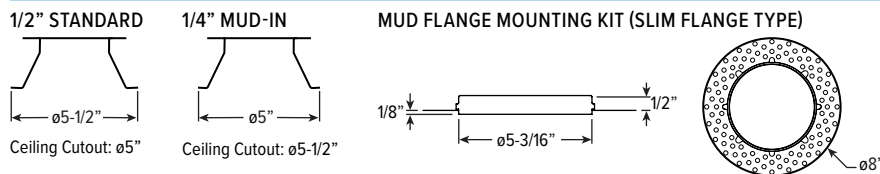
## TRIMLOCK DETAILS



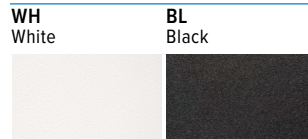
## TRIM TYPE DETAILS



## FLANGE TYPE DETAILS



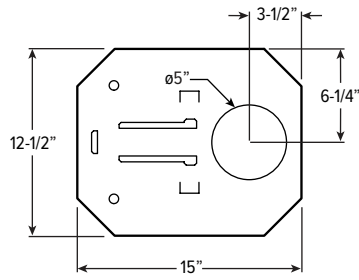
## REFLECTOR FINISH DETAILS



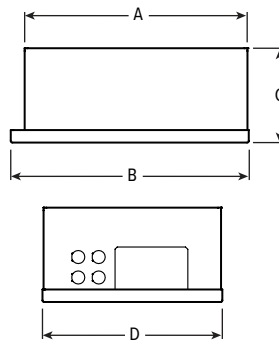
# 4PR LED 4.5" Shallow Plenum Downlight – Round

## MOUNTING TYPE DETAILS

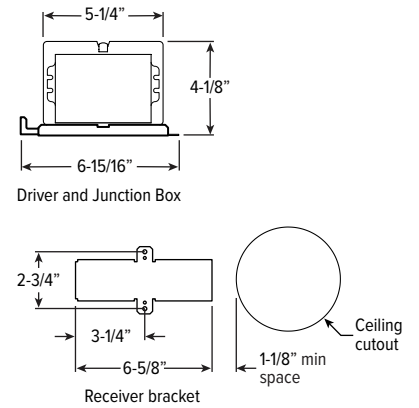
### NEW CONSTRUCTION



### IC-RATED



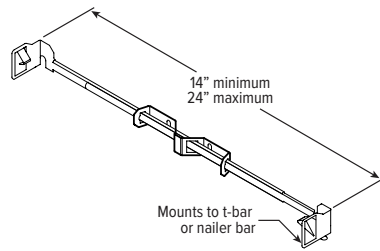
### REMODEL



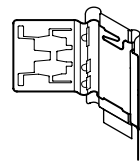
LUMENS	LENGTH			
	A	B	C	D
L10 - L20	15-1/16"	16"	4-1/2"	12-1/8"

## MOUNTING HARDWARE DETAILS

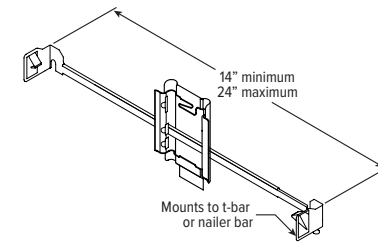
**F1** 2-Position fixed pan bracket, universal bar hanger included



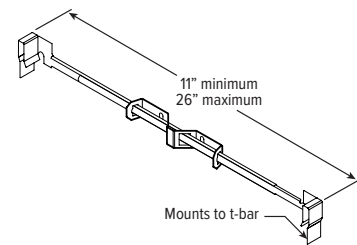
**BA1** Adjustable butterfly pan bracket, bar hanger not included



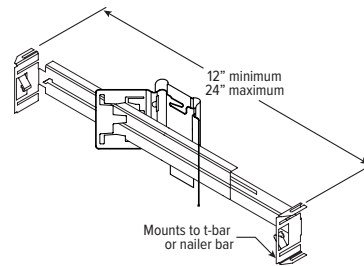
**CA1** Adjustable caterpillar pan bracket, universal bar hanger included



**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

