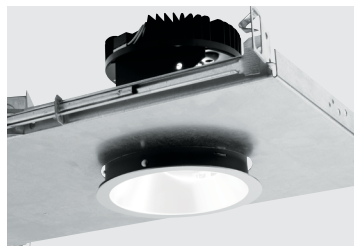
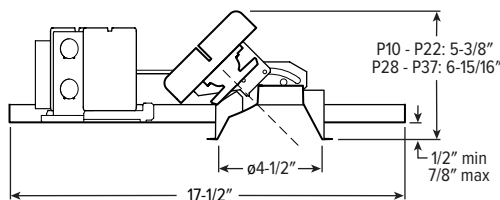


# 4AR PoE | tunable WHITE 4.5" Adjustable Downlight – Round



## NEW CONSTRUCTION AND REMODEL



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

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

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



## FEATURES

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls
- Made Right Here® in the USA

## SPECIFICATIONS

- HOUSING** – Die-cast aluminum spun and stamped articulating mechanism with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2" - 7/8".
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- 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. N and R mounting types for use in non-fire rated installations only. Minimum 24" O.C. marked spacing required for P28 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.
  - 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](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://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](http://hew.com/poe)

ORDERING EXAMPLE: 4AR - P22/835 - OPTIONS - POE PR - OW - OF - CS - TRIM OPTIONS - N - F1

## HOUSING

SERIES	LUMENS <sup>[1]</sup>	CRI	COLOR	OPTIONS	CONTROL <sup>[2]</sup>
4AR	P10 1,000lm	80	27 2700K	ATH Airtight construction <sup>[6]</sup>	POE PR Power over Ethernet-ready
	P22 2,200lm	90 <sup>[4]</sup>	30 3000K	CP Chicago plenum (CCEA) <sup>[7]</sup>	
	P28 2,800lm		35 3500K		
	P37 3,700lm <sup>[3]</sup>		40 4000K		
			50 5000K		
			TW Tunable white (80 CRI, 2700K-5000K) <sup>[5]</sup>		

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

TRIM TYPE	DISTRIBUTION <sup>[9]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Smooth matte white trim flange <sup>[12]</sup>
L Flush lens	45° Open	40° Flush	CS Clear semi-specular anodize	AD Diffuse acrylic lens <sup>[13]</sup>
A Angled lens	30° Angled	SF 1/4" mud-in flange <sup>[11]</sup>	WH White texture powder coat	PD Diffuse 1/8" polycarbonate lens <sup>[14]</sup>
	M Medium		BL Black texture powder coat	WET/CC Wet location, covered ceiling listed <sup>[15]</sup>
	30° Open		Lens trim types	AM Anti-microbial <sup>[16]</sup>
	30° Flush		CS Clear semi-specular powder coat	
	25° Angled		WH White texture powder coat	
	N Narrow <sup>[10]</sup>		BL Black texture powder coat	
	20° Open			
	25° Flush			
	25° Angled			

## MOUNTING

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

- N Open pan for new construction
- I IC-rated enclosure for new construction <sup>[19]</sup>
- R Remodel kit <sup>[20]</sup>

### MOUNTING HARDWARE <sup>[18]</sup>

- F1 Factory-installed 2-position fixed pan bracket, universal bar hanger included <sup>[21]</sup>
- BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>[22]</sup>
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>[23]</sup>

## NOTES

- Lumen output based on O Trim Type, M Distribution and CS Reflector Finish, 80 CRI, 3500K for single CCT and 4000K for TW. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- For additional PoE connection details, consult factory.
- N Mounting Type only.
- Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
- P10 and P22 lumen packages only.
- I Mounting Type required.
- I Mounting Type required. P10 and P22 lumen packages only.
- Trim ships separately.
- Beam angle based on CS or WH Reflector Finish.

- Not available with Tunable White when specified with O Trim Type.
- 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 option.
- Not available with WH Reflector Finish or L Trim Type.
- L and A Trim Types only. W Distribution only.
- L and A Trim Types only. W Distribution only.
- L and A Trim Types only.
- WH and BL Reflector Finishes only.

- Mounting Hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING HARDWARE DETAILS.
- Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- P10 and P22 lumen packages only.
- Also used in new construction sheetrock ceilings. Pan-less installation. P10 and P22 lumen packages only.
- N and I Mounting Types only. Universal bar hanger ships uninstalled. I Mounting requires external brackets.
- N Mounting Type only.
- N Mounting Type only.



# 4AR PoE | tunable WHITE

## 4.5" Adjustable Downlight – Round

### FIXTURE PERFORMANCE DATA

#### STANDARD

##### OPEN REFLECTOR TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P10	W	764	12.3	62
	M	1048	12.3	85
	N	1123	12.3	91
P22	W	1570	25.0	63
	M	2152	25.0	86
	N	2307	25.0	92
P28	W	1698	37.5	45
	M	2768	37.5	74
	N	3087	37.5	82
P37	W	2276	50.0	46
	M	3710	50.0	74
	N	4138	50.0	83

##### FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P10	W	757	12.3	62
	M	1014	12.3	82
	N	1056	12.3	86
P22	W	1556	25.0	62
	M	2083	25.0	83
	N	2169	25.0	87
P28	W	2318	37.5	62
	M	3013	37.5	80
	N	2994	37.5	80
P37	W	3106	50.0	62
	M	4039	50.0	81
	N	4013	50.0	80

##### ANGLED LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P10	W	538	12.3	44
	M	789	12.3	64
	N	951	12.3	77
P22	W	1106	25.0	44
	M	1621	25.0	65
	N	1954	25.0	78
P28	W	1693	37.5	45
	M	2291	37.5	61
	N	2564	37.5	68
P37	W	2270	50.0	45
	M	3071	50.0	61
	N	3437	50.0	69

#### TUNABLE WHITE

##### OPEN REFLECTOR TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P10	W	708	12.3	58
	M	982	12.3	80
	N	–	–	–
P22	W	1330	25.0	53
	M	1829	25.0	73
	N	–	–	–
P28	W	–	–	–
	M	–	–	–
	N	–	–	–
P37	W	–	–	–
	M	–	–	–
	N	–	–	–

##### FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P10	W	689	12.3	56
	M	953	12.3	78
	N	1012	12.3	82
P22	W	1323	25.0	53
	M	1784	25.0	71
	N	1785	25.0	71
P28	W	–	–	–
	M	–	–	–
	N	–	–	–
P37	W	–	–	–
	M	–	–	–
	N	–	–	–

##### ANGLED LENS TRIM TYPE

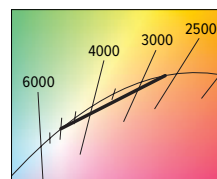
	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P10	W	616	12.3	50
	M	708	12.3	58
	N	903	12.3	73
P22	W	1330	25.0	53
	M	1364	25.0	55
	N	1569	25.0	63
P28	W	–	–	–
	M	–	–	–
	N	–	–	–
P37	W	–	–	–
	M	–	–	–
	N	–	–	–

#### 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	–

OPEN REFLECTOR FINISH	
CATALOG NUMBER	CONVERSION FACTOR
CS	1.00
WH	0.89
BL	0.79

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD <sup>1</sup>	0.85
PD <sup>1</sup>	0.85



<sup>1</sup> Distribution will also be affected, consult factory.

- Photometrics tested in accordance with IESNA LM-79. Results based on O Trim Type, M Distribution and CS 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.

PHOTOMETRY CONTINUED ON NEXT PAGE.

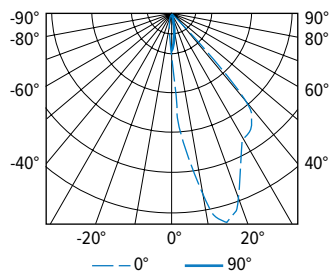


# 4AR PoE | tunable WHITE

## 4.5" Adjustable Downlight – Round

### PHOTOMETRY

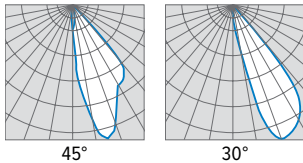
4AR-P22/835-POE PR-OW-OF-CS (25° tilt) Total Luminaire Output: 1588 lumens; 25.0 Watts | Efficacy: 63.5 lm/W | 80 CRI; 3500K CCT



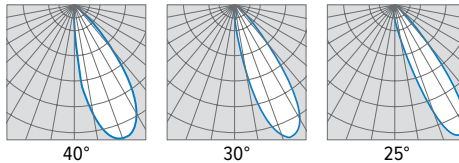
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	924	924	924	924	924	
	5	2800	1964	766	317	229	114
	15	5066	2767	296	72	47	374
	25	3815	2520	75	19	17	498
	35	3302	1161	14	9	13	468
	45	682	35	6	5	3	131
	55	7	0	0	0	3	3
	65	1	0	0	0	0	0
	75	0	0	0	0	0	0
	85	0	0	0	0	0	0
	90	0	0	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	986	62
	0 - 40	1454	92
	0 - 60	1588	100
	0 - 90	1588	100
	0 - 180	1588	100

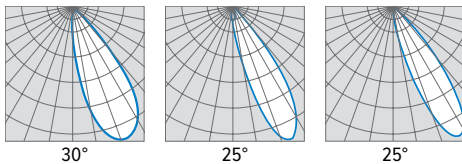
### OPEN



### FLUSH



### ANGLED



### APERTURE ADAPTOR ORDERING INFO

ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS Clear semi-specular powder coat
4DR 6DR			WH White texture powder coat
4DS 6DS			BL Black texture powder coat
4PR 6PR			
4PS 6PS			
8DR			

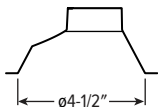
For use with remodel downlights.

Additional finishes available, consult factory.

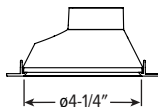
For limitations and instructions, see [hew.com/aperture-adaptor.pdf](http://hew.com/aperture-adaptor.pdf)

### TRIM TYPE DETAILS

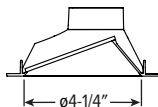
#### OPEN



#### FLUSH

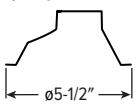


#### ANGLED



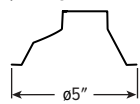
### FLANGE TYPE DETAILS

#### 1/2" STANDARD



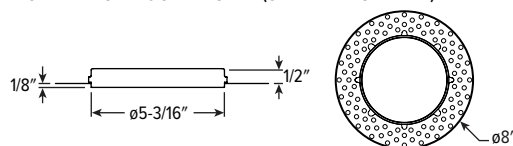
Ceiling Cutout: 5"

#### 1/4" MUD-IN



Ceiling cutout: 5-1/2"

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



### REFLECTOR FINISH DETAILS

#### CS

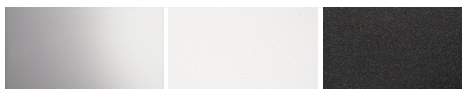
Clear semi-specular

#### WH

White

#### BL

Black



H.E. Williams, Inc.

Carthage, Missouri

[www.hew.com](http://www.hew.com)

417-358-4065

Designed and Manufactured in the USA

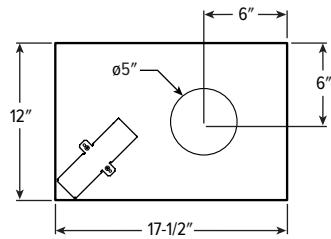
REV.07/04/24.LA

Downlights  
Page 3 of 4

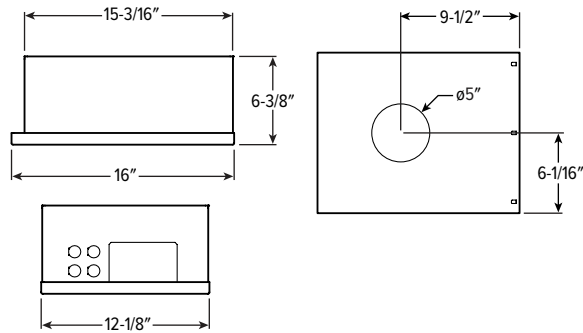
# 4AR PoE | tunable **WHITE** 4.5" Adjustable Downlight – Round

## MOUNTING TYPE DETAILS

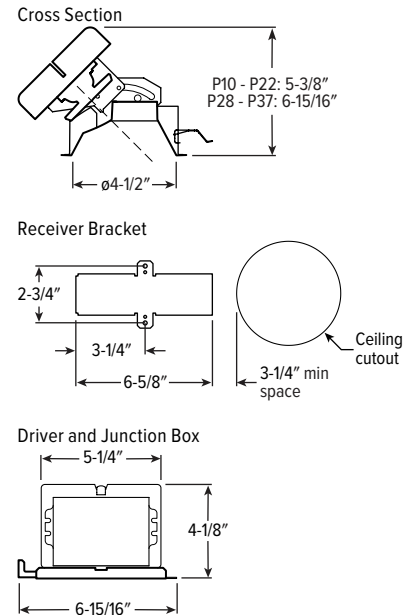
### NEW CONSTRUCTION



### IC-RATED

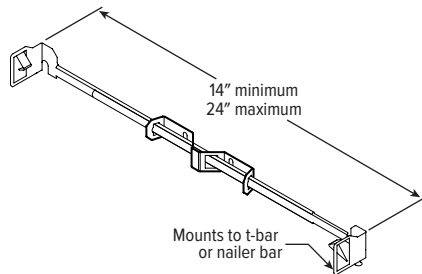


### REMODEL

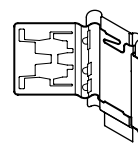


## MOUNTING HARDWARE DETAILS

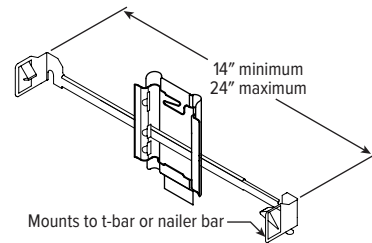
**F1** Factory-installed 2-position fixed pan bracket, universal bar hanger included, ships uninstalled



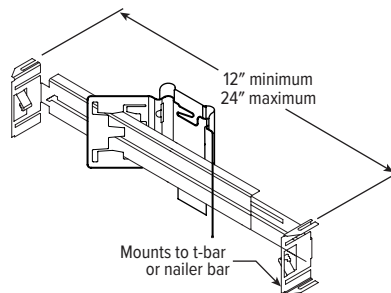
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



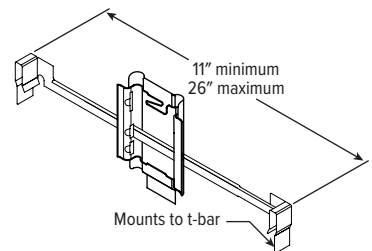
**CA1** Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



**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)



F1 with I Mounting Type

