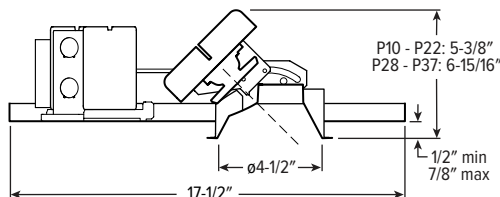


# 4AR PoE | tunable WHITE

## 4.5" Adjustable Downlight – Round



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

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

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

### NEW CONSTRUCTION AND REMODEL

#### FEATURES

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls



#### 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 TRIM MOUNT

#### HOUSING

SERIES	LUMENS <sup>[1]</sup>	CRI	COLOR	OPTIONS	CONTROL <sup>[2]</sup>
4AR	P10 1,000lm	8 80	27 2700K	ATH Airtight construction <sup>[6]</sup>	POE PR Power over Ethernet-ready
	P22 2,200lm	9 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 Textured white trim flange <sup>[12]</sup>
L Flush lens	45° Open	SF 1/4" mud-in flange <sup>[11]</sup>	CS Clear semi-specular anodize	AD Diffuse acrylic lens <sup>[13]</sup>
A Angled lens	40° Flush		WH White texture powder coat	PD Diffuse 1/8" polycarbonate lens <sup>[14]</sup>
	30° Angled		BL Black texture powder coat	WET/CC Wet location, covered ceiling listed <sup>[15]</sup>
	M Medium		Lens trim types	AM Anti-microbial <sup>[16]</sup>
	30° Open		CS Clear semi-specular powder coat	
	30° Flush		WH White texture powder coat	
	25° Angled		BL Black texture powder coat	
	N Narrow <sup>[10]</sup>			
	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

- Static white lumen output based on O trim type, M distribution and CS finish, 80 CRI, 3000K for single CCT and 4000K for TW. Actual lumens 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. Not available with PD trim option.
- 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 TYPE DETAILS.
- Additional mounting hardware options available. See page 5 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

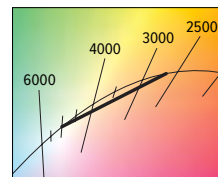
	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P10	W	616	12.3	50
	M	708	12.3	58
	N	903	12.3	73
P22	W	1330	25.0	53
	M	1364	25.0	55
	N	1569	25.0	63
P28	W	–	–	–
	M	–	–	–
	N	–	–	–
P37	W	–	–	–
	M	–	–	–
	N	–	–	–

#### 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 shown are based on 25°C ambient temperature.
  - Standard results based on 3500K/80 CRI, 0° tilt, actual lumens may vary +/-5%
  - Tunable white results based on 4000K/80 CRI, 0° tilt, actual lumens may vary +/-5%
  - Use multiplier tables to calculate additional options.

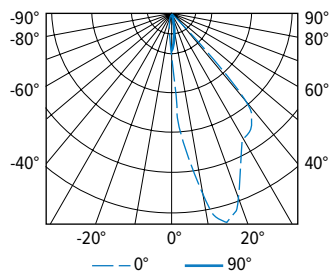


# 4AR PoE | tunable WHITE

## 4.5" Adjustable Downlight – Round

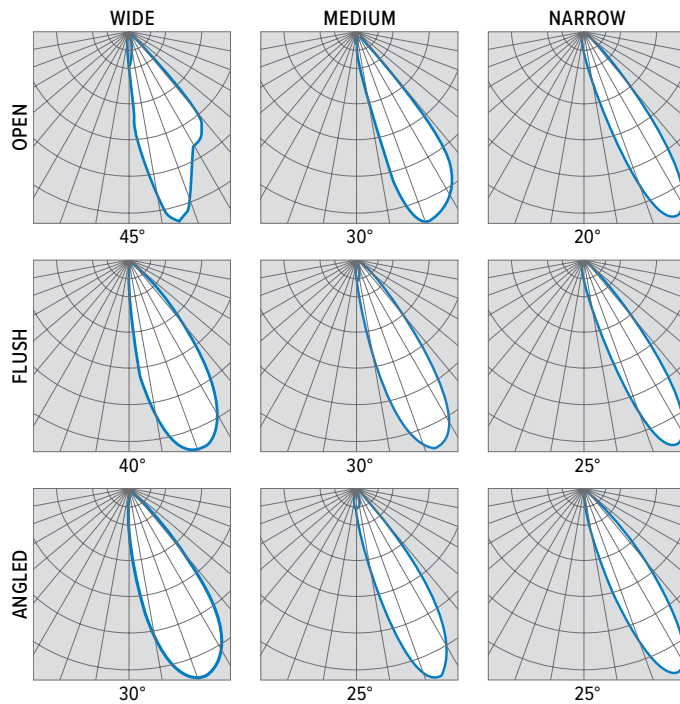
### PHOTOMETRY

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

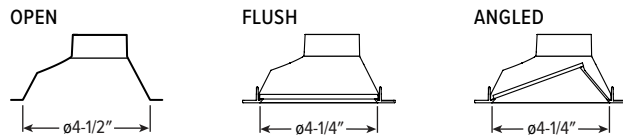


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	924	924	924	924	924	
	5	2800	1964	766	317	229	114
	15	5066	2767	296	72	47	374
	25	3815	2520	75	19	17	498
	35	3302	1161	14	9	13	468
	45	682	35	6	5	3	131
	55	7	0	0	0	3	3
	65	1	0	0	0	0	0
	75	0	0	0	0	0	0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

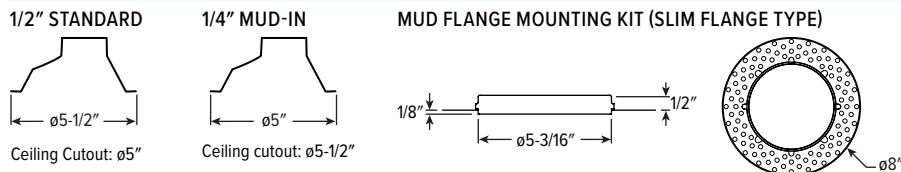
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	986	62
	0 - 40	1454	92
	0 - 60	1588	100
	0 - 90	1588	100
	0 - 180	1588	100



### TRIM TYPE DETAILS



### FLANGE TYPE DETAILS



4AR PoE | tunable WHITE

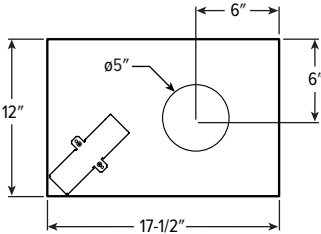
4.5" Adjustable Downlight – Round

REFLECTOR FINISH DETAILS

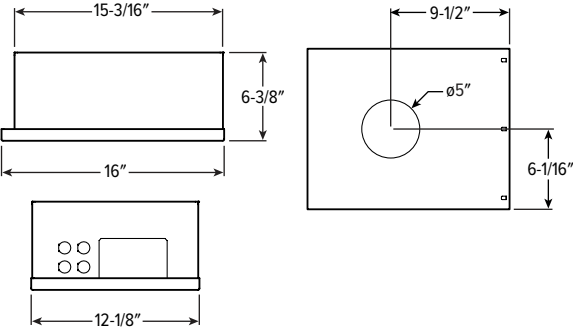


MOUNTING TYPE DETAILS

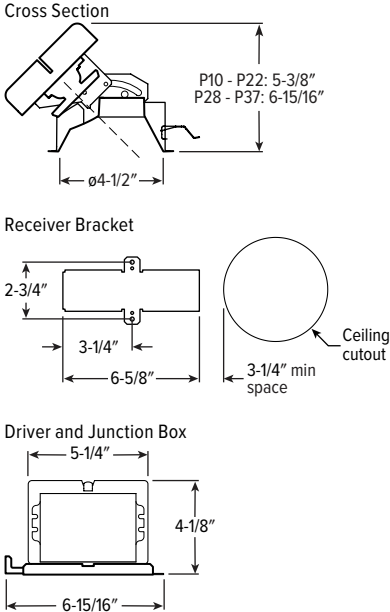
NEW CONSTRUCTION



IC-RATED



REMODEL



APERTURE ADAPTOR ORDERING INFO

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

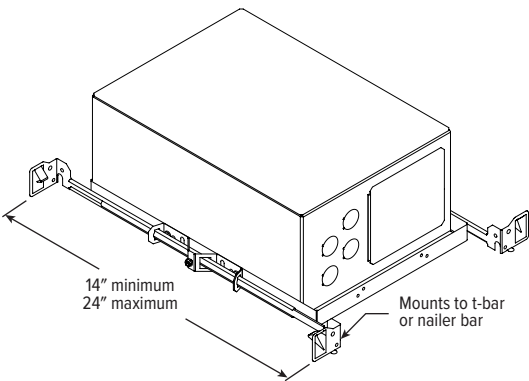
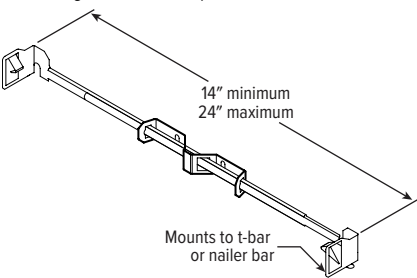
For use with remodel downlights. Additional finishes available, consult factory.  
For limitations and instructions, see [hew.com/aperture-adaptor.pdf](http://hew.com/aperture-adaptor.pdf)

# 4AR PoE | tunable WHITE

## 4.5" Adjustable Downlight – Round

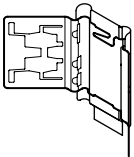
### MOUNTING HARDWARE DETAILS

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

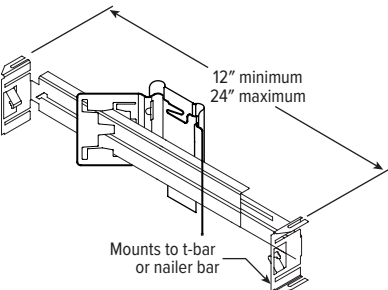


F1 with I Mounting Type

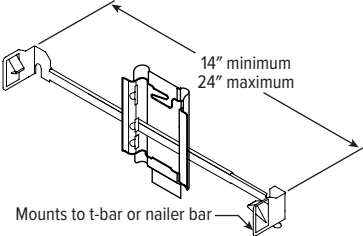
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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



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



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

