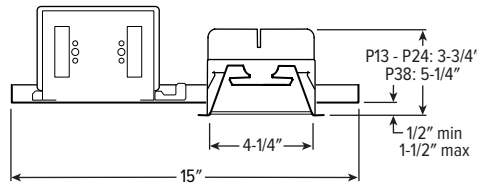


# 4PS PoE | tunable WHITE

## 4.5" Shallow Plenum Downlight – Square



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

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

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

### NEW CONSTRUCTION AND REMODEL

#### FEATURES

- Create scalable, highly functioning smart buildings with Platformatics Power over Ethernet controls
- Tunable white from 2700K to 5000K CCT, minimum 80 CRI.

#### SPECIFICATIONS

- **HOUSING** – Formed steel housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2" – 1-1/2" (consult factory for additional ceiling thicknesses).
- **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 P38 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.
  - 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).

#### 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)
- Consult factory for design support



ORDERING EXAMPLE: **4PS - P24/835 - OPTIONS - POE PR - LW - OF - WH - TRIM OPTIONS - N - F1**

HOUSING
TRIM
MOUNT.

#### HOUSING

SERIES	LUMENS <sup>[1]</sup>	CRI	CCT	OPTIONS	CONTROL <sup>[2]</sup>
4PS	P13 1,300lm	8 80	27 2700K	ATH Airtight construction	POE PR Power over Ethernet, Platformatics-ready
	P24 2,400lm	9 90 <sup>[4]</sup>	30 3000K	CP Chicago plenum (CEEA) <sup>[5]</sup>	
	P38 3,800lm <sup>[3]</sup>	35 3500K	40 4000K		
		50 5000K	TW Tunable white (80 CRI, 2700K–5000K)		

#### TRIM <sup>[6]</sup>

TRIM TYPE	DISTRIBUTION <sup>[7]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 75° Wide	OF 1/2" standard flange	CS Clear semi-specular powder coat	IP IP65 rated trim
	M 35° Medium	SF 1/4" mud-in flange <sup>[8]</sup>	WH White texture powder coat	AD Diffuse acrylic lens <sup>[9]</sup>
N 30° Narrow	BL Black texture powder coat		PD Diffuse 1/8" polycarbonate lens <sup>[10]</sup>	
				WET/CC Wet location, covered ceiling listed
				AM Anti-microbial <sup>[11]</sup>

#### MOUNTING

##### MOUNTING TYPE <sup>[12]</sup>

- N Open pan for new construction
- I IC-rated enclosure for new construction <sup>[14]</sup>
- R Remodel kit <sup>[15]</sup>

##### MOUNTING HARDWARE <sup>[13]</sup>

- F1 Integral 2-position fixed pan bracket, universal bar hanger included <sup>[16]</sup>
- BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>[17]</sup>
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>[18]</sup>

#### NOTES

- <sup>1</sup> Static white lumen output based on L trim type, W distribution and WH finish, 80 CRI, 3000K for single CCT and 4000K for TW. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- <sup>2</sup> See page 4 for NODE CONNECTION DETAILS. For additional PoE info, see [hew.com/poe](http://hew.com/poe).
- <sup>3</sup> N Mounting Type only. Not available with Tunable White.
- <sup>4</sup> Extended lead times may apply. Consult factory for availability.
- <sup>5</sup> Not available with Tunable White.
- <sup>6</sup> I Mounting Type required. P24 lumen package max.
- <sup>7</sup> Trim ships separately
- <sup>8</sup> Beam angle based on WH reflector finish.
- <sup>9</sup> 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.
- <sup>9</sup> W distribution only.
- <sup>10</sup> W distribution only.
- <sup>11</sup> WH and BL Reflector Finishes only.
- <sup>12</sup> Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
- <sup>13</sup> Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- <sup>14</sup> P13 and P24 lumen packages only.
- <sup>15</sup> Also used in new construction sheetrock ceilings. P13 and P24 lumen packages only.
- <sup>16</sup> N and I Mounting Types only. I Mounting requires external brackets.
- <sup>17</sup> N Mounting Type only
- <sup>18</sup> N Mounting Type only

# 4PS PoE | tunable WHITE

## 4.5" Shallow Plenum Downlight – Square

### FIXTURE PERFORMANCE DATA

#### STANDARD

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P13	W	1289	12.3	104.8
	M	1333	12.3	108.3
	N	1290	12.3	104.8
P24	W	2393	25.0	96.0
	M	2474	25.0	99.0
	N	2394	25.0	96.0
	W	3806	37.5	101.5
P38	M	3934	37.5	104.9
	N	3807	37.5	101.5

#### TUNABLE WHITE

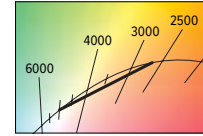
	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P13	W	1005	12.3	81.7
	M	1017	12.3	82.6
	N	982	12.3	79.9
P24	W	2005	25.0	80.2
	M	2133	25.0	85.3
	N	2062	25.0	82.5

- 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.

#### MULTIPLIER TABLES

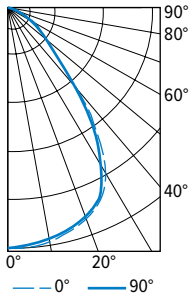
	COLOR TEMPERATURE		
	CCT	LUMENS	
80 CRI	STANDARD	TUNABLE WHITE	
	2700K	0.92	0.83
	3000K	0.98	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
5000K	1.02	0.98	
90 CRI	2700K	0.76	-
	3000K	0.79	-
	3500K	0.82	-
	4000K	0.84	-
	5000K	0.88	-

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85



### PHOTOMETRY

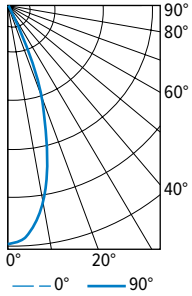
4PS-P24/835-POE PR-LW-OF-WH Total Luminaire Output: 2393 lumens; 25.0 Watts | Efficacy: 96.0 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	1347	1347	1346	
	5	1346	1339	1338	127
	15	1298	1291	1287	365
	25	1213	1216	1201	553
	35	862	1026	838	575
	45	388	598	374	374
	55	222	249	213	212
	65	121	119	118	121
	75	51	51	51	55
	85	8	7	6	11
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1045	44
	0 - 40	1620	68
	0 - 60	2206	92
	0 - 90	2393	100
	0 - 180	2393	100

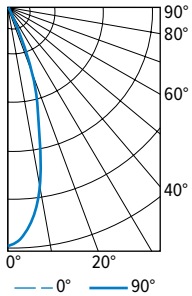
4PS-P24/835-POE PR-LM-OF-WH Total Luminaire Output: 2474 lumens; 25.0 Watts | Efficacy: 99.0 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	5317	5317	5317	
	5	5142	5128	5145	471
	15	3520	3521	3496	951
	25	1218	1213	1214	596
	35	355	358	377	243
	45	131	142	138	111
	55	58	65	60	57
	65	28	30	30	30
	75	12	12	14	13
	85	1	2	1	2
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2018	82
	0 - 40	2261	91
	0 - 60	2428	98
	0 - 90	2474	100
	0 - 180	2474	100

4PS-P24/835-POE PR-LN-OF-WH Total Luminaire Output: 2394 lumens; 25.0 Watts | Efficacy: 96.0 lm/W | 80 CRI; 3500K CCT



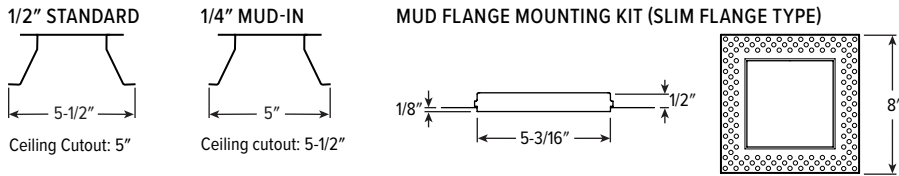
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	6249	6249	6249	
	5	5885	5834	5819	526
	15	3299	3338	3281	919
	25	1018	1107	1081	523
	35	282	304	320	205
	45	121	129	133	102
	55	69	75	73	66
	65	33	39	37	37
	75	13	15	15	15
	85	0	1	2	2
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1967	82
	0 - 40	2172	91
	0 - 60	2339	98
	0 - 90	2394	100
	0 - 180	2394	100

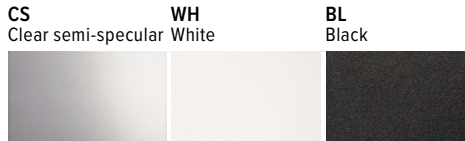


# 4PS PoE | tunable **WHITE** 4.5" Shallow Plenum Downlight – Square

## FLANGE TYPE DETAILS

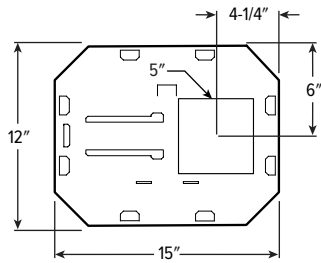


## REFLECTOR FINISH DETAILS

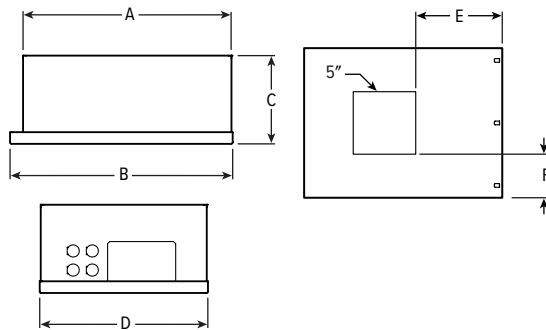


## MOUNTING TYPE DETAILS

### NEW CONSTRUCTION

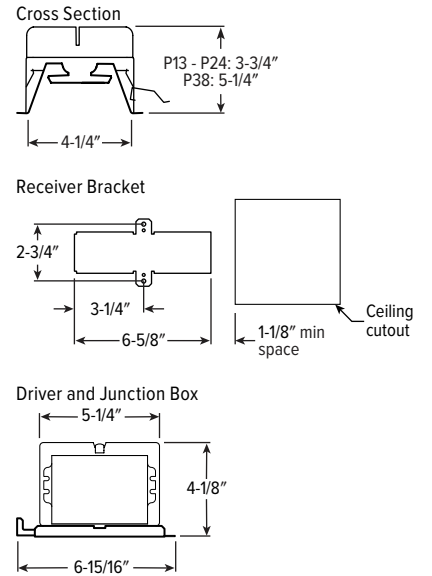


### IC-RATED



LUMENS	LENGTH					
	A	B	C	D	E	F
P13 - P24	15-1/16"	16"	4-1/2"	12-1/8"	7"	3-9/16"

### REMODEL

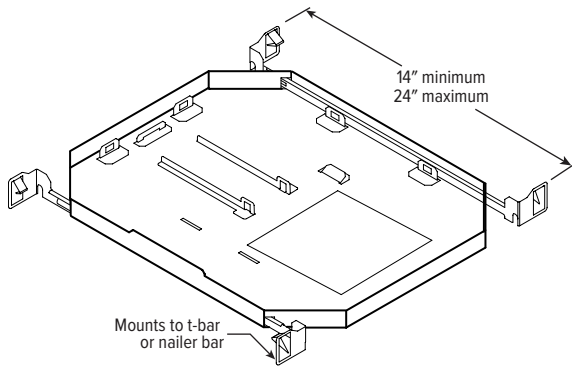


# 4PS PoE | tunable WHITE

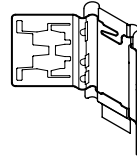
## 4.5" Shallow Plenum Downlight – Square

### MOUNTING HARDWARE DETAILS

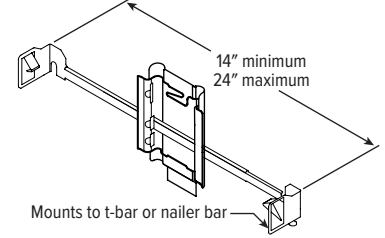
**F1** Integral 2-position fixed pan bracket, universal bar hanger included



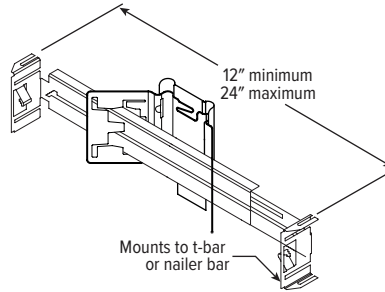
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



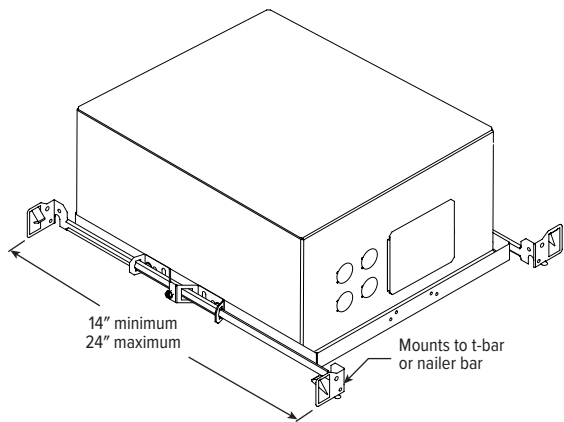
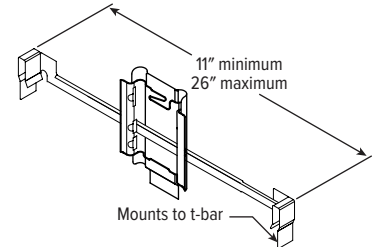
**CA1** Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



**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)



F1 with I Mounting Type

### NODE CONNECTION DETAILS

Includes 24" cable with 4-position mating connector for Platformatics POE-LN2 node. See node spec sheet for details: [platformatics.com/product/poe-ln2](http://platformatics.com/product/poe-ln2)

