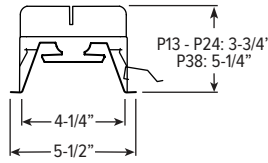


4PS PoE | tunable **WHITE** 4.5" Shallow Plenum Downlight – Square



CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

- Williams turn-key Power over Ethernet (PoE) solution provides plug-and-play networked lighting and control.
- Tunable white from 2700K to 5000K CCT, minimum 80 CRI.
- Spring clip retention system eliminates trim sag

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 for details

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.

ORDERING EXAMPLE:⁽¹⁾ **4PS - P24/835 - OPTIONS - POE N - LW - OF - WH - TRIM OPTIONS - N - F1**
 HOUSING TRIM MOUNT.

HOUSING

SERIES	LUMENS ⁽²⁾	CRI	CCT	OPTIONS	ACCESSORIES	CONTROL ⁽³⁾
4PS	P13 1,300lm	8 80	27 2700K	ATH Airtight construction ⁽⁵⁾	See hew.com/poe for compatible sensors & switches	POE N Power over Ethernet network node
	P24 2,400lm	9 90	30 3000K	CP Chicago plenum (CCEA) ⁽⁶⁾		POE D Power over Ethernet device node
	P38 3,800lm ⁽⁴⁾	35 3500K	40 4000K	TW Tunable white (80 CRI, 2700K–5000K)		

TRIM

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

MOUNTING

MOUNTING TYPE⁽¹²⁾

- N Open pan for new construction
- I IC-rated enclosure for new construction⁽¹⁴⁾
- R Remodel kit⁽¹⁵⁾

MOUNTING HARDWARE⁽¹³⁾

- 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⁽¹⁶⁾
- BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included⁽¹⁷⁾
- 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 page 2 for FIXTURE PERFORMANCE DATA.
- For additional PoE info, see hew.com/poe
- N Mounting Type only.
- I Mounting Type required.
- I Mounting Type required. P24 lumen package max.
- Beam angle based on WH reflector finish.
- 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.
- Wide distribution 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 3 for MOUNTING TYPE DETAILS.
- Specify for N and I Mounting Types only, see page 4 for MOUNTING HARDWARE DETAILS.
- P24 lumen package max.
- Also used in new construction sheetrock ceilings. P24 lumen package max.
- N Mounting Type only.
- N Mounting Type only.

4PS PoE | tunable WHITE

4.5" Shallow Plenum Downlight – Square

FIXTURE PERFORMANCE DATA

STANDARD

LED PACKAGE	DISTRIBUTION	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
P38	W	3806	37.5	101.5
	M	3934	37.5	104.9
	N	3807	37.5	101.5

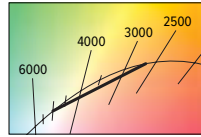
TUNABLE WHITE

LED PACKAGE	DISTRIBUTION	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
P38	W	3424	43.5	78.7
	M	2586	43.5	59.4
	N	3523	43.5	81.0

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

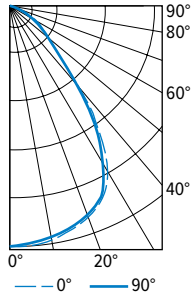
TUNABLE WHITE		
	CCT	LUMENS
80 CRI	2700K	0.83
	3000K	1.00
	3500K	0.99
	4000K	1.00
	5000K	0.98



- 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

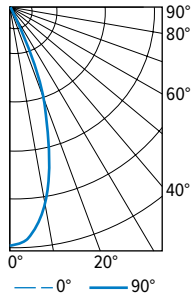
4PS-P24/835-DIM-POE-LW-OF-WH Total Luminaire Output: 2393 lumens; 25.0 Watts | Efficacy: 96.0 lm/W | 82.8 CRI; 3431K CCT



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-DIM-POE-LM-OF-WH Total Luminaire Output: 2474 lumens; 25.0 Watts | Efficacy: 99.0 lm/W | 82.8 CRI; 3431K CCT



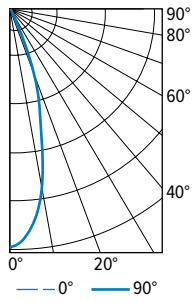
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	5317	5317	5317	
5	5142	5128	5145	471
15	3520	3521	3496	951
25	1218	1213	1214	596
35	355	358	377	243
45	131	142	138	111
55	58	65	60	57
65	28	30	30	30
75	12	12	14	13
85	1	2	1	2
90	0	0	0	

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

4PS-P24/835-DIM-POE-LN-OF-WH Total Luminaire Output: 2394 lumens; 25.0 Watts | Efficacy: 96.0 lm/W | 82.8 CRI; 3431K CCT

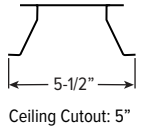


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	6249	6249	6249	
5	5885	5834	5819	526
15	3299	3338	3281	919
25	1018	1107	1081	523
35	282	304	320	205
45	121	129	133	102
55	69	75	73	66
65	33	39	37	37
75	13	15	15	15
85	0	1	2	2
90	0	0	0	

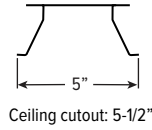
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1967	82
	0 - 40	2172	91
	0 - 60	2339	98
	0 - 90	2394	100
	0 - 180	2394	100

FLANGE TYPE DETAILS

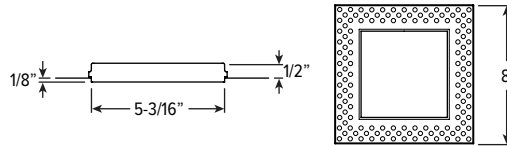
1/2" STANDARD



1/4" MUD-IN



MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



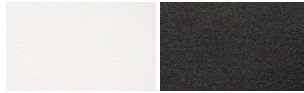
REFLECTOR FINISH DETAILS

WH

White

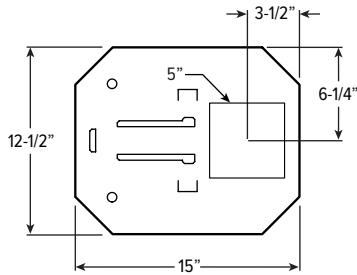
BL

Black

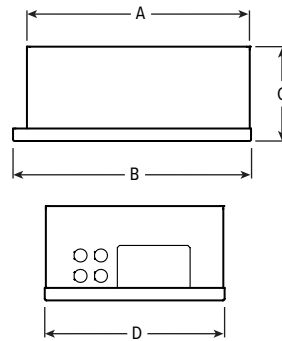


MOUNTING TYPE DETAILS

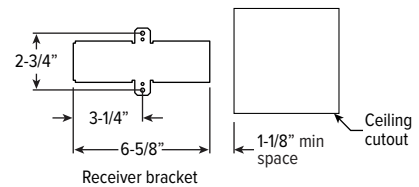
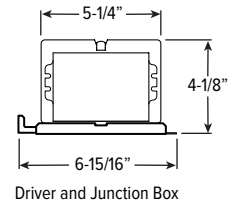
NEW CONSTRUCTION



IC-RATED



REMODEL



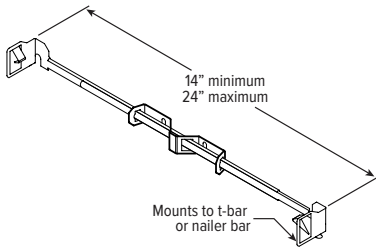
LUMENS	LENGTH			
	A	B	C	D
P13 - P24	15-1/16"	16"	4-1/2"	12-1/8"



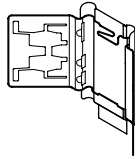
4PS PoE | tunable **WHITE** 4.5" Shallow Plenum Downlight – Square

MOUNTING HARDWARE DETAILS

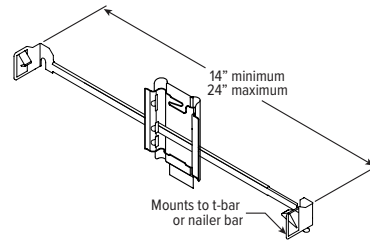
F1 2-Position fixed pan bracket, universal bar hanger included



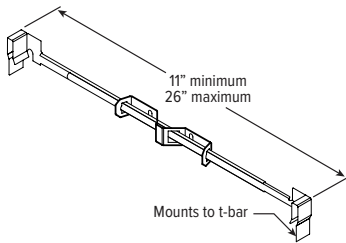
BA1 Adjustable butterfly pan bracket, bar hanger not included



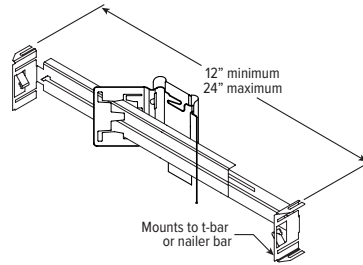
CA1 Adjustable caterpillar pan bracket, universal bar hanger included



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

