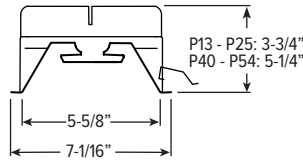


6PS PoE | tunable WHITE 6" Shallow Plenum Downlight – Square



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. Marked spacing restrictions apply for P40 and P54, consult factory.
- 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⁾ 6PS - P40/835 - OPTIONS - POE N - LW - OF - WH - TRIM OPTIONS - N - F1

HOUSING

SERIES	LUMENS ^[2]	CRI	CCT	OPTIONS	ACCESSORIES	CONTROL ^[3]
6PS	P13	1,300lm	8 80	27 2700K	ATH Airtight construction ^[5]	See hew.com/poe for compatible sensors & switches
	P25	2,500lm	9 90	30 3000K	CP Chicago plenum (CCEA) ^[6]	POE N Power over Ethernet network node
	P40	4,000lm	35	3500K	F Fuse kit	POE D Power over Ethernet device node
	P54	5,400lm ^[4]	40	4000K	TW Tunable white (80 CRI, 2700K–5000K)	

TRIM

TRIM TYPE	DISTRIBUTION ^[7]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 85° Wide M 35° Medium ^[8] N 30° Narrow ^[9]	OF 1/2" standard flange SF 1/4" mud-in flange ^[10]	WH White texture powder coat BL Black texture powder coat	IP IP65 rated trim AD Diffuse acrylic lens ^[11] WET/CC Wet location, covered ceiling listed

MOUNTING

MOUNTING TYPE ^[12]	MOUNTING HARDWARE ^[13]
N Open pan for new construction	F1 2-Position fixed pan bracket, universal bar hanger included
I IC-rated enclosure for new construction ^[14]	F2 2-Position fixed pan bracket, t-bar bar hanger included
R Remodel kit ^[15]	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.
- Not available with Tunable White. N Mounting Type only.
- I Mounting Type required.
- I Mounting Type required. P25 lumen package max.
- Beam angle based on WH reflector finish.
- Not available with lumen stop P54.
- Not available with lumen stop P54.
- 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.
- W distribution only.
- 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.
- P25 lumen package max.
- Also used in new construction sheetrock ceilings.
- N Mounting Type only.
- N Mounting Type only.

6PS PoE | tunable WHITE

6" Shallow Plenum Downlight – Square

FIXTURE PERFORMANCE DATA

STANDARD

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P13	W	1337	12.3	108.7
	M	1268	12.3	103.1
	N	1217	12.3	98.9
P25	W	2488	25.0	99.5
	M	2360	25.0	94.4
	N	2264	25.0	90.6
P40	W	3972	37.5	105.9
	M	3767	37.5	100.5
	N	3614	37.5	96.4
P54	W	5381	50.0	107.6

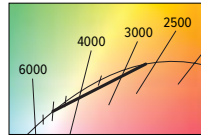
TUNABLE WHITE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P13	W	1073	12.3	87.2
	M	1031	12.3	83.8
	N	994	12.3	80.8
P25	W	2265	25	90.6
	M	2165	25	86.6
	N	2086	25	83.4
P40	W	3868	43.5	88.9
	M	3696	43.5	85.0
	N	3563	43.5	81.9

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

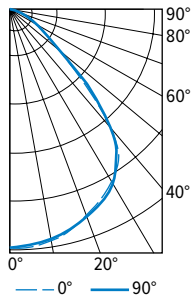
TUNABLE WHITE		
	CCT	LUMENS
80 CRI	2700K	0.83
	3000K	1.00
	3500K	0.99
	4000K	1.00
	5000K	0.98



- 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

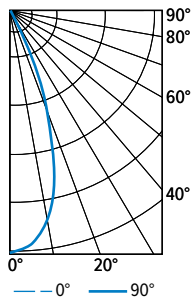
6PS-P40/835-DIM-POE-LW-OF-WH Total Luminaire Output: 3972 lumens; 37.5 Watts | Efficacy: 105.9 lm/W | 82.9 CRI; 3419K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1965	1965	1965	
5	1965	1955	1949	186
15	1895	1881	1886	532
25	1762	1744	1758	809
35	1563	1562	1526	960
45	932	1177	924	792
55	353	553	339	402
65	169	204	170	188
75	74	79	75	84
85	15	13	15	19
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1527	38
	0 - 40	2486	63
	0 - 60	3681	93
	0 - 90	3972	100
	0 - 180	3972	100

6PS-P40/835-DIM-POE-LM-OF-WH Total Luminaire Output: 3767 lumens; 37.5 Watts | Efficacy: 100.5 lm/W | 82.9 CRI; 3419K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	7742	7742	7742	
5	7587	7536	7486	696
15	5321	5367	5399	1442
25	1737	1820	1816	890
35	519	547	549	365
45	218	233	231	183
55	110	122	110	105
65	54	60	54	56
75	22	23	22	25
85	3	4	3	5
90	0	0	0	

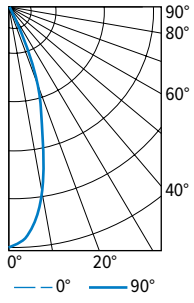
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	3027	80
	0 - 40	3392	90
	0 - 60	3681	98
	0 - 90	3767	100
	0 - 180	3767	100



6PS PoE | tunable WHITE

6" Shallow Plenum Downlight – Square

6PS-P40/835-DIM-POE-LN-OF-WH Total Luminaire Output: 3614 lumens; 37.5 Watts | Efficacy: 96.4 lm/W | 82.9 CRI; 3419K CCT

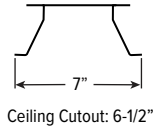


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	8772	8772	8772	
5	8342	8277	8271	749
15	4876	4921	4891	1341
25	1521	1624	1597	780
35	452	476	485	322
45	214	234	231	179
55	133	152	137	128
65	73	82	76	78
75	27	31	27	32
85	2	3	3	5
90	0	0	0	

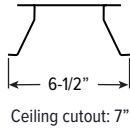
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2870	79
	0 - 40	3192	88
	0 - 60	3499	97
	0 - 90	3614	100
	0 - 180	3614	100

FLANGE TYPE DETAILS

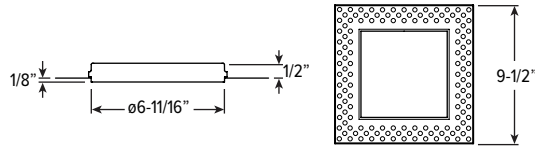
1/2" STANDARD



1/4" MUD-IN



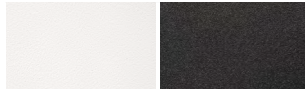
MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



REFLECTOR FINISH DETAILS

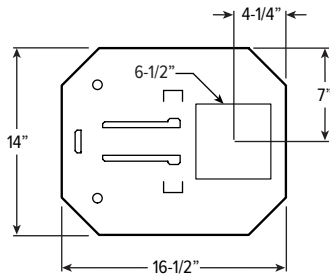
WH
White

BL
Black

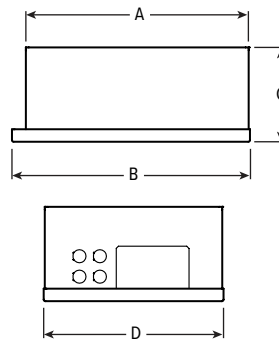


MOUNTING TYPE DETAILS

NEW CONSTRUCTION

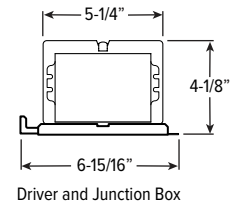


IC-RATED

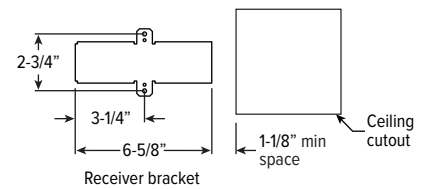


LUMENS	LENGTH			
	A	B	C	D
P13	15-3/16"	16"	4-1/2"	12-1/8"
P25	15-3/16"	16"	6-3/8"	12-1/8"

REMODEL



Driver and Junction Box

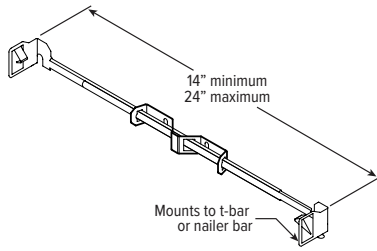


6PS PoE | tunable WHITE

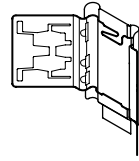
6" Shallow Plenum Downlight – Square

MOUNTING HARDWARE DETAILS

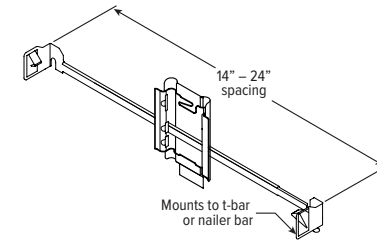
F1 2-Position fixed pan bracket, universal bar hanger included



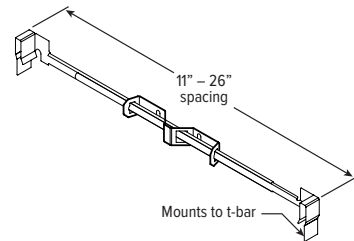
BA1 Adjustable butterfly pan bracket, bar hanger not included



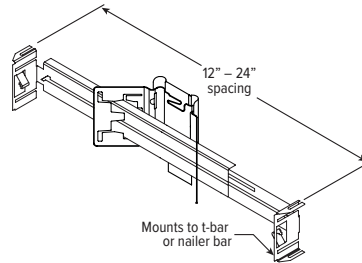
CA1 Adjustable caterpillar pan bracket, universal bar hanger included



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

