

CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

TrimLock®

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Williams turn-key Power over Ethernet (PoE) solution provides plug-and-play networked lighting and control

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** – Spun housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2”– 1-1/4” (consult factory for additional ceiling thicknesses).
- TRIMLOCK** – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- 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 P41 and P54 lumen packages.
- 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: 6PR - TL - P98/835 - OPTIONS - POE N - LW - OF - WH - TRIM OPTIONS - N - F1

HOUSING

SERIES	LUMENS ^[1]	CRI	CCT	OPTIONS ^[2]	CONTROL ^[3]
6PR - TL	P15 1,500lm	8 80	27 2700K	ATH Airtight construction	POE N Power over Ethernet network node
TrimLock	P29 2,900lm	9 90 ^[5]	30 3000K	CP Chicago plenum (CCEA) ^[6]	POE D Power over Ethernet device node
	P41 4,100lm		35 3500K		
	P54 5,400lm ^[4]		40 4000K		
			50 5000K		
			TW Tunable white (80 CRI, 2700K–5000K)		

TRIM ^[7]

TRIM TYPE	DISTRIBUTION ^[8]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 85° Wide	OF 1/2" standard flange	CS Clear semi-specular powder coat	IP IP65 rated trim
A Angled lens ^[9]	M 35° Medium ^[11]	SF 1/4" mud-in flange ^[13]	WH White texture powder coat	AD Diffuse acrylic lens ^[14]
S Non-conductive flush lens for shower applications ^[10]	N 25° Narrow ^[12]		BL Black texture powder coat	PD Diffuse 1/8" polycarbonate lens ^[15]
				WET/CC Wet location, covered ceiling listed
				AM Anti-microbial ^[16]

MOUNTING

MOUNTING TYPE ^[17]

- N Open pan for new construction
- I IC-rated enclosure for new construction ^[19]
- R Remodel kit ^[20]

MOUNTING HARDWARE ^[18]

- F1 Integral 2-position fixed pan bracket, universal bar hanger included ^[21]
- BA1 Adjustable butterfly pan bracket, bar hanger not included ^[22]
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included ^[23]

NOTES

- 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.
- See hew.com/poe for compatible sensors & switches.
- For additional PoE info, see hew.com/poe
- Not available with Tunable White. N Mounting Type only.
- Extended lead times may apply. Consult factory for availability.
- Not available with Tunable White.
- I Mounting Type required. P29 lumen package max.
- Trim ships separately.
- Beam angle based on WH reflector finish.
- Wide distribution only. Diffuse acrylic lens standard.
- W Distribution, OF Flange Type, and WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC options standard.
- Not available with lumen stop P54 or tunable white P41.
- Not available with lumen stop P54 or tunable white P41.
- 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.
- L Trim Type only. W distribution only.
- W distribution only.
- WH and BL Reflector Finishes only. Not available with S Trim Type.
- 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 4 for MOUNTING HARDWARE DETAILS.
- P29 lumen package max.
- Also used in new construction sheetrock ceilings. P29 lumen package max.
- N and I Mounting Types only.
- N Mounting Type only.
- N Mounting Type only.

6PR PoE | tunable WHITE

6" Shallow Plenum Downlight – Round

FIXTURE PERFORMANCE DATA

STANDARD

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P15	W	1459	12.3	118.6
	M	1480	12.3	120.3
	N	1493	12.3	121.4
P29	W	2888	25.0	115.5
	M	2928	25.0	117.0
	N	2957	25.0	118.3
P41	W	4131	37.5	110.1
	M	4150	37.5	110.7
	N	4044	37.5	107.8
P54	W	5434	50.0	108.7
	M	-	-	-
	N	-	-	-

- 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.

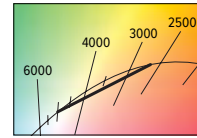
TUNABLE WHITE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P15	W	910	12.3	74.0
	M	875	12.3	71.1
	N	844	12.3	68.6
P29	W	1912	25.0	76.5
	M	1838	25.0	73.5
	N	1772	25.0	70.9
P41	W	3265	43.5	75.1
	M	-	-	-
	N	-	-	-

MULTIPLIER TABLES

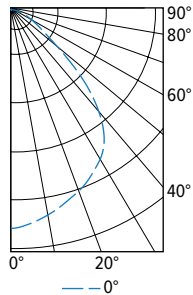
	COLOR TEMPERATURE		
	CCT	LUMENS	
		STANDARD	TUNABLE WHITE
80 CRI	2700K	0.92	0.83
	3000K	0.98	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
	5000K	1.02	0.98
90 CRI	2700K	0.76	-
	3000K	0.79	-
	3500K	0.82	-
	4000K	0.84	-
	5000K	0.88	-

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85



PHOTOMETRY

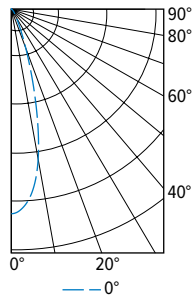
6PR-TL-P29/835-DIM-POE-LW-OF-WH Total Luminaire Output: 2888 lumens; 25.0 Watts | Efficacy: 115.5 lm/W | 81.8 CRI; 3647K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1529	
	5	1502	142
	15	1406	397
	25	1293	596
	35	1124	695
	45	727	552
	55	291	272
	65	145	146
	75	66	71
	85	15	18
	90	1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1830	63
	0 - 60	2653	92
	0 - 90	2888	100
	0 - 180	2888	100

6PR-TL-P29/835-DIM-POE-LM-OF-WH Total Luminaire Output: 2928 lumens; 25.0 Watts | Efficacy: 117.0 lm/W | 81.7 CRI; 3644K CCT



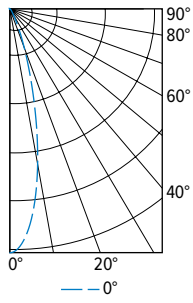
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	6736	
	5	6473	594
	15	4238	1139
	25	1340	639
	35	398	261
	45	175	138
	55	91	83
	65	47	47
	75	22	23
	85	4	5
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2632	90
	0 - 60	2853	97
	0 - 90	2928	100
	0 - 180	2928	100



6PR PoE | tunable **WHITE** 6" Shallow Plenum Downlight – Round

6PR-TL-P29/835-DIM-POE-LN-OF-WH Total Luminaire Output: 2957 lumens; 25.0 Watts | Efficacy: 118.3 lm/W | 81.6 CRI; 3629K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0		10919
5		9871	856
15		4231	1164
25		1008	490
35		278	183
45		140	110
55		86	77
65		48	48
75		21	23
85		4	5
90		1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2694	91
	0 - 60	2881	97
	0 - 90	2957	100
	0 - 180	2957	100

TRIMLOCK DETAILS

TWIST



PULL

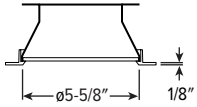


RELEASE

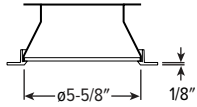


TRIM TYPE DETAILS

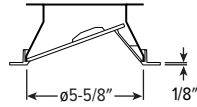
FLUSH



SHOWER

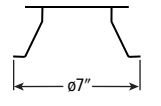


ANGLED



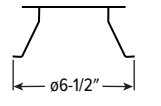
FLANGE TYPE DETAILS

1/2" STANDARD



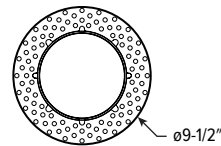
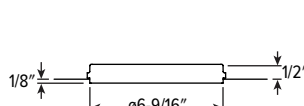
Ceiling Cutout: $\phi 6-1/2"$

1/4" MUD-IN



Ceiling cutout: $\phi 6-3/4"$

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



REFLECTOR FINISH DETAILS

CS

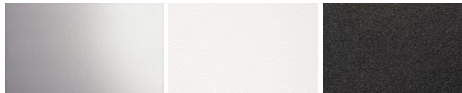
Clear semi-specular

WH

White

BL

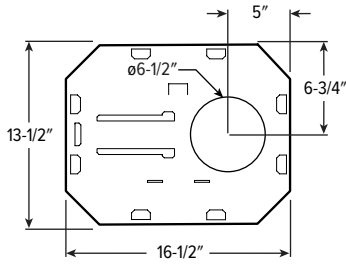
Black



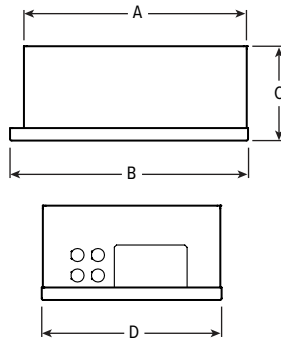
6PR PoE | tunable **WHITE** 6" Shallow Plenum Downlight – Round

MOUNTING TYPE DETAILS

NEW CONSTRUCTION



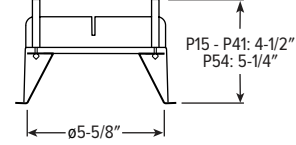
IC-RATED



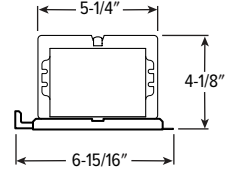
LUMENS	LENGTH			
	A	B	C	D
P15	15-1/16"	16"	4-1/2"	12-1/8"
P29	15-3/16"	16"	6-3/8"	12-1/8"

REMODEL

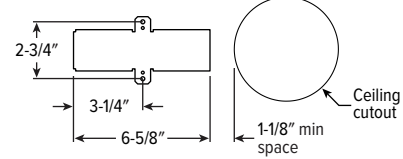
Cross Section



Driver and Junction Box

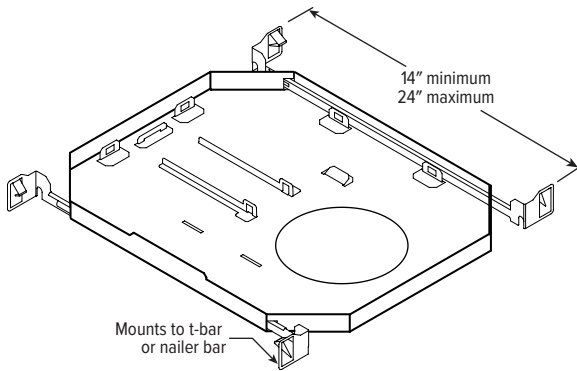


Receiver Bracket

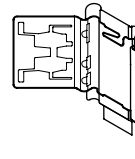


MOUNTING HARDWARE DETAILS

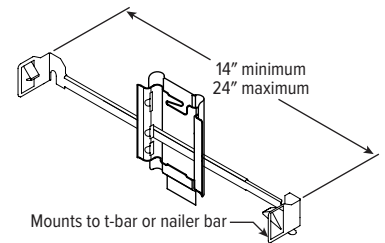
F1 Integral 2-position fixed pan bracket, universal bar hanger included



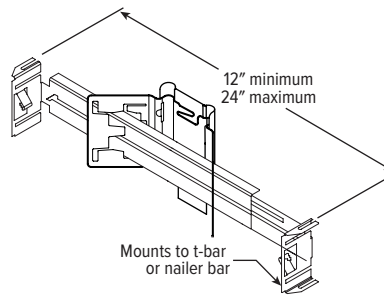
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

