4DR PoE | tunable WHITE
4.5" Downlight – Round

Williams®

P15 - P44: 5-3/4"
P62: 6-1/2"

ø4-1/2"

15"

1/2" min
2-1/4" max

NEW CONSTRUCTION AND REMODEL

FEATURES

TrimLock®

BUY AMERICAN ACT COMPLIANT

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

SPECIFICATIONS

- **HOUSING** – Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms field adjust for ceiling thickness from 1/2" – 2-1/4".
- **TRIMLOCK** – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- **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. Minimum 24" O.C. marked spacing required for P44 and P62 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 or TD options.
  - 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.
- **WARRANTY** – 5-year limited warranty, see 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

ORDERING EXAMPLE: 4DR - TL - P28/835 - OPTIONS - POE PR - OW - OF - CS - TRIM OPTIONS - N - F1

HOUSING ─── | ─── TRIM ─── | MOUNT.

HOUSING

SERIES	LUMENS [1]	CRI	CCT	OPTIONS	CONTROL [2]
4DR - TL TrimLock	**P15** 1,500lm	**8** 80	**27** 2700K	**SCA__** Sloped ceiling adapter [6]	**POE PR** Power over Ethernet-ready
	P28 2,800lm	**9** 90 [4]	**30** 3000K	**ATH** Airtight construction	
	P44 4,400lm		**35** 3500K	**CP** Chicago plenum (CCEA) [7]	
	P62 6,200lm [3]		**40** 4000K		
			50 5000K		
			TW Tunable white (80 CRI, 2700K–5000K) [5]		

TRIM [8]

TRIM TYPE	DISTRIBUTION [9]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	**W** Wide	**OF** 1/2" standard flange	**Open trim types**	**MWT** Textured white trim flange [17]
L Flush lens	65° Open		**CS** Clear semi-specular anodize	**IP** IP65 rated trim [18]
R Regressed lens	50° Flush	**SF** 1/4" mud-in flange [15]	**SG** Satin-glow anodize	**AD** Diffuse acrylic lens [19]
A Angled lens [10]	50° Regressed		**GD** Gold anodize	**PD** Diffuse 1/8" polycarbonate lens [20]
S Non-conductive flush lens for shower applications [11]	**M** Medium [12] 45° Open		**CG** Champagne gold anodize	**TD** Diffuse polycarbonate lens media at top of open reflector [21]
	35° Flush		**PW** Pewter anodize	
	30° Regressed		**SPC** Clear specular anodize	**WET/CC** Wet location, covered ceiling listed [22]
	N Narrow [13]		**RG** Rose gold anodize	**AM** Anti-microbial [23]
	10° Open		**WH** White texture powder coat	
	25° Flush		**BL** Black texture powder coat	
	25° Regressed		**Lens trim types**	
	WW Wall wash [14]		**CS** Clear semi-specular powder coat	
			WH White texture powder coat	
			BL Black texture powder coat	
			MB Black texture splay with white flange [16]	

MOUNTING

MOUNTING TYPE [24]

N Open pan for new construction
I IC-rated enclosure for new construction [26]
R Remodel kit [27]

MOUNTING HARDWARE [25]

F1 Integral 2-position fixed pan bracket, universal bar hanger included [28]
BA1 Adjustable butterfly pan bracket, bar hanger not included [29]
CA1 Adjustable caterpillar pan bracket, universal bar hanger included [30]

NOTES

1. Static white lumen output based on O trim type, W distribution and CS finish, 80 CRI, 3500K for single CCT and 4000K for TW. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA
2. For additional PoE connection details, consult factory.
3. N Mounting Type only.
4. Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
5. P15 and P28 lumen packages only.
6. 9" aperture, specify degrees of slope in 5° increments, 05°-30°. Not available with I Mounting Type, S Trim Type, ATH, IP, or WET/CC Options. Painted white. Other colors available, consult factory. See page 3 for SLOPED CEILING ADAPTOR DETAILS.
7. I Mounting Type required.
8. Trim ships separately.
9. Beam angle based on CS or WH reflector finish.
10. Available with WW Distribution only.
11. W Distribution, OF Flange Type and WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC options standard.
12. Not available with lumen stops P44 and higher when specified with flush or regressed trim types.
13. Not available with lumen stops P44 and higher when specified with flush or regressed trim types.
14. O and A Trim Types only.
15. 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.
16. R Trim Type only. Not available with MWT.
17. Not available with WH Reflector Finish, L or S Trim Types.
18. L and R Trim Types only.
19. Not available with O trim type. W and WW distributions only.
20. Not available with O trim type. W and WW distributions only.
21. O Trim Type only. WET/CC standard unless ordered with EM/RTS.
22. Not available with PD trim option.
23. WH and BL Reflector Finishes only. Not available with S Trim Type.
24. Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
25. Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
26. P15 lumen package only. P28 available, wide distribution only for lensed trims.
27. Also used in new construction sheetrock ceilings. Pan-less installation. P28 lumen package max.
28. N and I Mounting Types only. I Mounting requires external brackets.
29. N Mounting Type only.
30. N Mounting Type only.

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Downlights
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PoE | tunable WHITE
4.5" Downlight – Round

FIXTURE PERFORMANCE DATA

STATIC WHITE

	DIST.	WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
P15	W	12.3	1537	125	1196	97	1208	98
P15	M	12.3	1480	120	1356	110	1361	111
P15	N	12.3	1426	116	1365	111	1372	112
P28	W	25.0	2835	113	2196	88	2219	89
P28	M	25.0	2719	109	2491	100	2499	100
P28	N	25.0	2619	105	2507	100	2520	101
P44	W	37.5	4408	118	3430	92	3466	92
P44	M	37.5	4234	113	–	–	–	–
P44	N	37.5	4039	108	–	–	–	–
P62	W	50.0	6151	123	4786	96	4836	97
P62	M	50.0	5822	116	–	–	–	–
P62	N	50.0	5612	112	–	–	–	–

TUNABLE WHITE

	DIST.	WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
P15	W	12.3	1311	107	1020	83	1031	84
P15	M	12.3	1263	103	1157	94	1161	94
P15	N	12.3	1216	99	1164	95	1170	95
P28	W	25.0	2649	106	2061	82	2083	83
P28	M	25.0	2544	102	2337	94	2345	94
P28	N	25.0	2427	97	2353	94	2364	95

MULTIPLIER TABLES

COLOR TEMPERATURE

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

REFLECTOR FINISH

	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
O TRIM	SG [1]	0.92
O TRIM	GD	0.93
O TRIM	CG	0.96
O TRIM	PW	0.86
O TRIM	SPC	1.02
O TRIM	RG	0.88
O TRIM	WH [1]	0.89
O TRIM	BL [1]	0.47
R TRIM	WH	1.00
R TRIM	CS	0.98
R TRIM	BL	0.79

TRIM

CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85
TD	0.75
WET/CC [2]	0.85
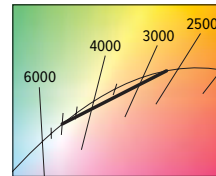
[1] Distribution will also be affected, consult factory.
[2] Use multiplier when specified with O Trim Type.
▪ Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25ºC ambient temperature.
▪ Standard results based on 3500K/80 CRI, actual lumens may vary +/-5%
▪ Tunable white results based on 4000K/80 CRI, actual lumens may vary +/-5%
▪ Use multiplier tables to calculate additional options.

PHOTOMETRY

4DR-TL-P28/835-POE PR-OW-OF-CS Total Luminaire Output: 2835 lumens; 25.0 Watts | Efficacy: 113.4 lm/W | 80 CRI; 3500K CCT
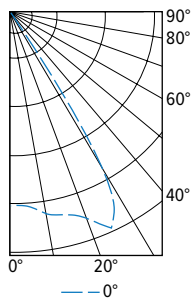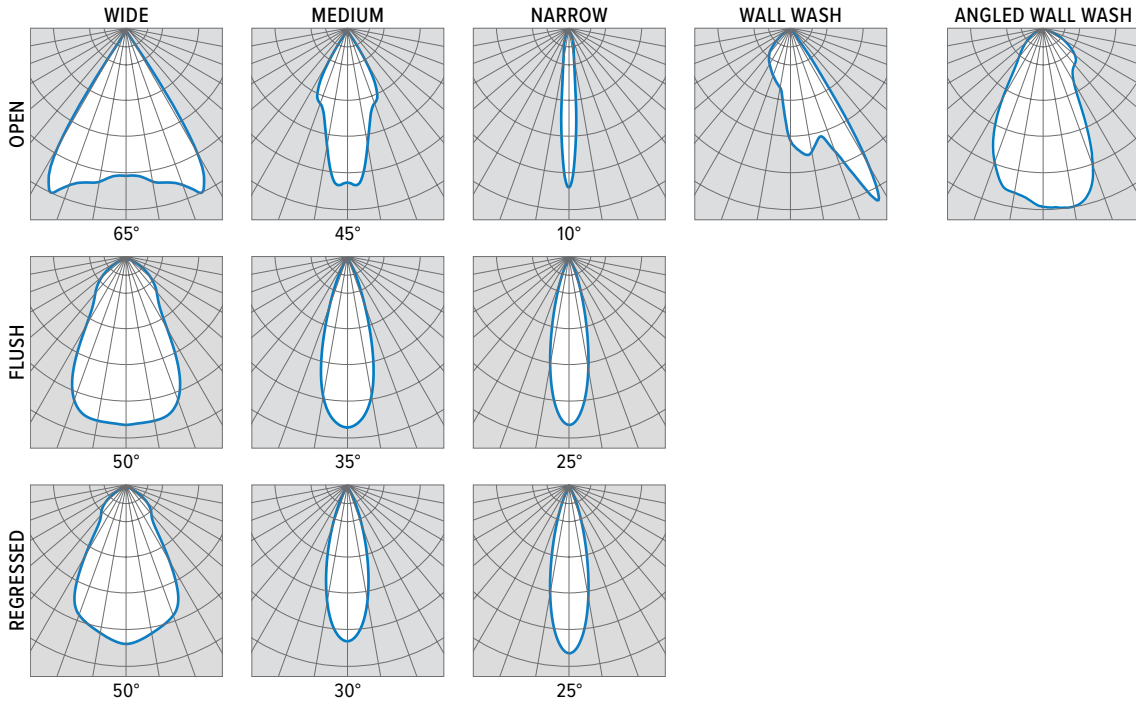
VERTICAL ANGLE	HORIZONTAL ANGLE 0º	ZONAL LUMENS
0	2559	
5	2636	252
15	2771	786
25	3155	1460
35	434	273
45	62	47
55	16	14
65	1	2
75	0	0
85	0	0
90	0	

ZONE	LUMENS	% FIXTURE
0 - 40	2770	98
0 - 60	2834	100
0 - 90	2835	100
0-180	2835	100

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4.5" Downlight – Round

	WIDE	MEDIUM	NARROW	WALL WASH	ANGLED WALL WASH
OPEN	65°	45°	10°		
FLUSH	50°	35°	25°		
REGRESSED	50°	30°	25°		

TRIMLOCK DETAILS

TWIST

PULL

RELEASE
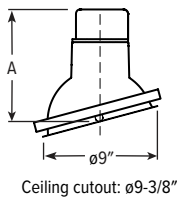
SLOPED CEILING ADAPTOR DETAILS

	A (HEIGHT)						PLENUM HEIGHT
LUMENS	5°	10°	15°	20°	25°	30°	
P15 - P44	8-13/16"	8-15/16"	9"	8-15/16"	8-7/8"	8-11/16"	9-1/4"
P62	9-9/16"	9-11/16"	9-11/16"	9-5/8"	9-1/2"	9-5/16"	10"

15° Shown

ø9"
Ceiling cutout: ø9-3/8"

TRIM TYPE DETAILS

OPEN — ø4-1/2"

OPEN (WALL WASH) — ø4-1/2"

FLUSH — ø4-1/4" / 1/8"

SHOWER — ø4-1/4" / 1/8"

ANGLED — ø4-1/4" / 1/8"

REGRESSED — ø4-3/8" / 1/8" / 1-1/4"

FLANGE TYPE DETAILS

1/2" STANDARD — ø5-1/2"
Ceiling Cutout: ø5"

1/4" MUD-IN — ø5"
Ceiling cutout: ø5-1/2"

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)
1/8" / 1/2" / ø5-3/16" / ø8"

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4.5" Downlight – Round

REFLECTOR FINISH DETAILS

SPC	SG	PW	GD	CG	RG	CS	WH	BL
Clear specular	Satin glow	Pewter	Gold	Champagne gold	Rose gold	Clear semi-specular	White	Black
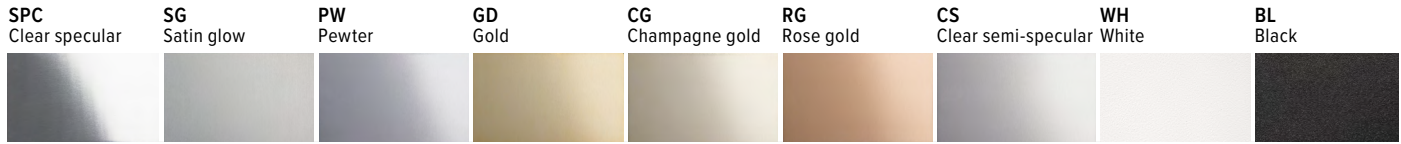
MOUNTING TYPE DETAILS

NEW CONSTRUCTION
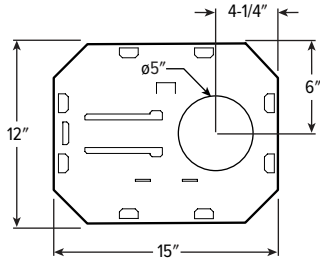
IC-RATED
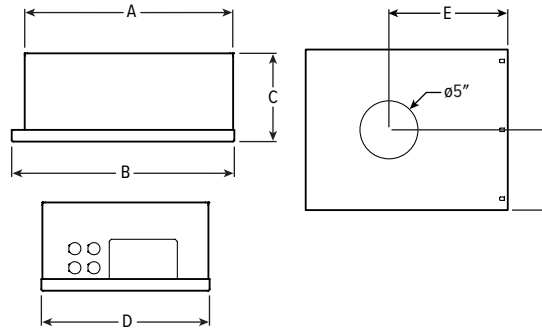
LUMENS	LENGTH					
	A	B	C	D	E	F
P15	15-3/16"	16"	6-3/8"	12-1/8"	9-1/2"	6-1/16"
P28	16-5/8"	17-1/2"	7-7/8"	14"	10-1/4"	7"

REMODEL

Cross Section

P15 - P44: 5-3/4"
P62: 6-1/2"

ø4-1/2"

Receiver Bracket
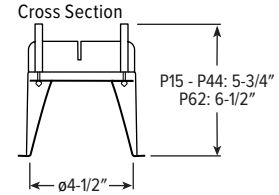
2-3/4"
3-1/4"
6-5/8"
1-1/8" min space
Ceiling cutout
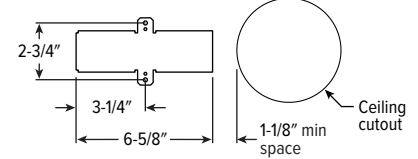
Driver and Junction Box

5-1/4"
4-1/8"
6-15/16"
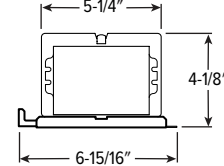
APERTURE ADAPTOR ORDERING INFO

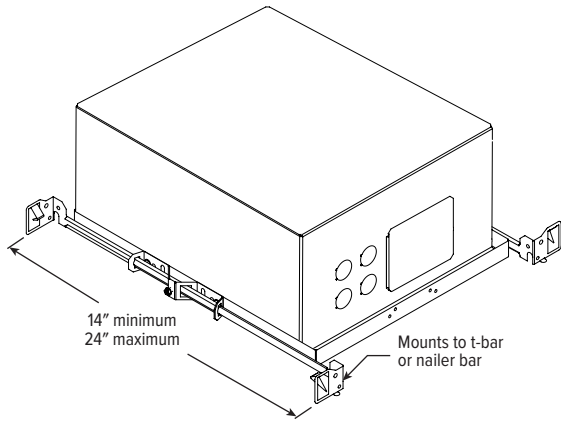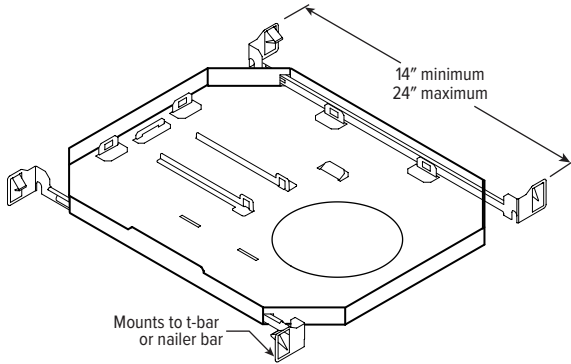| ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 8DR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS Clear semi-specular powder coat WH White texture powder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

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PoE | tunable WHITE
4.5″ Downlight – Round

MOUNTING HARDWARE DETAILS

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

14″ minimum
24″ maximum

Mounts to t-bar
or nailer bar

14″ minimum
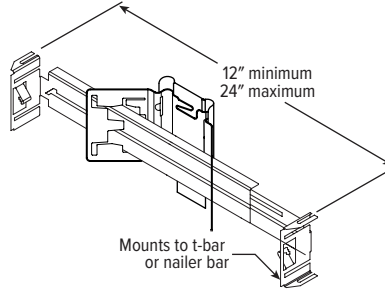24″ maximum

Mounts to t-bar
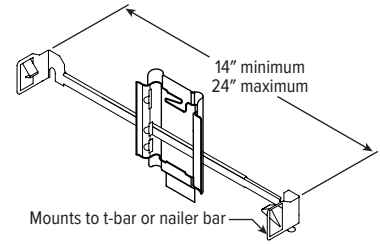or nailer bar

F1 with I Mounting Type

BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)
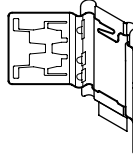
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)

12″ minimum
24″ maximum

Mounts to t-bar
or nailer bar

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

14″ minimum
24″ maximum

Mounts to t-bar or nailer bar

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

11″ minimum
26″ maximum

Mounts to t-bar

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