

CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

TrimLock®

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



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, 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 P41 and P54 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 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.
 - 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: 6PR - TL - P98/835 - OPTIONS - POE PR - LW - OF - WH - TRIM OPTIONS - N - F1

HOUSING TRIM MOUNT.

HOUSING

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

TRIM ^[6]

| TRIM TYPE | DISTRIBUTION ^[7] | 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 ^[8] | M 35° Medium ^[10] | SF 1/4" mud-in flange ^[12] | WH White texture powder coat | AD Diffuse acrylic lens ^[13] |
| S Non-conductive flush lens for shower applications ^[9] | N 25° Narrow ^[11] | | BL Black texture powder coat | PD Diffuse 1/8" polycarbonate lens ^[14] |
| | | | | WET/CC Wet location, covered ceiling listed ^[15] |
| | | | | 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, 80 CRI, 3000K for single CCT and 4000K for TW. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- For additional PoE connection details, consult factory.
- 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.
- Not available with PD trim option.
- 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.
- P15 and P29 lumen packages only.
- Also used in new construction sheetrock ceilings. Pan-less installation. P29 lumen package max.
- N and I Mounting Types only. I Mounting requires external brackets.
- 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.

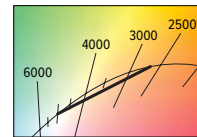
TUNABLE WHITE

| | 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

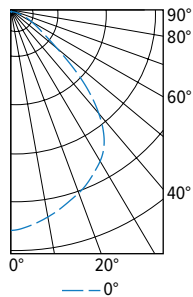
| COLOR TEMPERATURE | | | |
|-------------------|-------|----------|---------------|
| | CCT | LUMENS | |
| | | STANDARD | TUNABLE WHITE |
| 80 CRI | 2700K | 0.92 | 0.83 |
| | 3000K | 0.98 | 1.00 |
| | 3500K | 1.00 | 0.99 |
| | 4000K | 1.01 | 1.00 |
| | 5000K | 1.02 | 0.98 |
| 90 CRI | 2700K | 0.76 |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

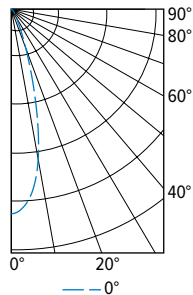
6PR-TL-P29/835-POE PR-LW-OF-WH Total Luminaire Output: 2888 lumens; 25.0 Watts | Efficacy: 115.5 lm/W | 80 CRI; 3500K CCT



| 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-POE PR-LM-OF-WH Total Luminaire Output: 2928 lumens; 25.0 Watts | Efficacy: 117.0 lm/W | 80 CRI; 3500K 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 | |

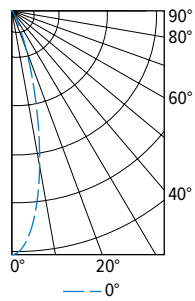
| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 40 | 2632 | 90 |
| | 0 - 60 | 2853 | 97 |
| | 0 - 90 | 2928 | 100 |
| | 0 - 180 | 2928 | 100 |



6PR PoE | tunable **WHITE**

6" Shallow Plenum Downlight – Round

6PR-TL-P29/835-POE PR-LN-OF-WH Total Luminaire Output: 2957 lumens; 25.0 Watts | Efficacy: 118.3 lm/W | 80 CRI; 3500K CCT



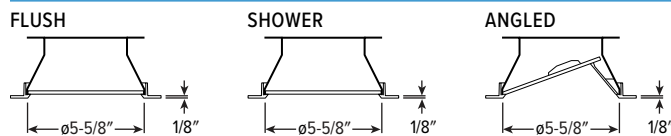
| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE 0° | ZONAL LUMENS |
|--------------------------|----------------|------------------------|--------------|
| | | | |
| | 0 | 10919 | |
| | 5 | 9871 | 856 |
| | 15 | 4231 | 1164 |
| | 25 | 1008 | 490 |
| | 35 | 278 | 183 |
| | 45 | 140 | 110 |
| | 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 |

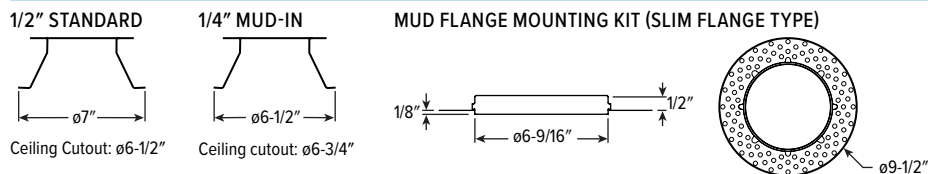
TRIMLOCK DETAILS



TRIM TYPE DETAILS



FLANGE TYPE DETAILS

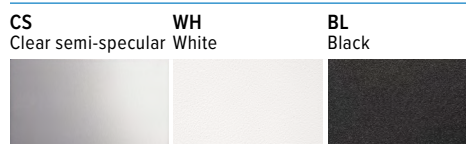


APERTURE ADAPTOR ORDERING INFO

| 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

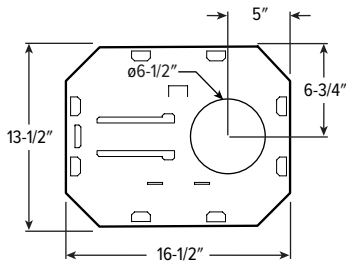
REFLECTOR FINISH DETAILS



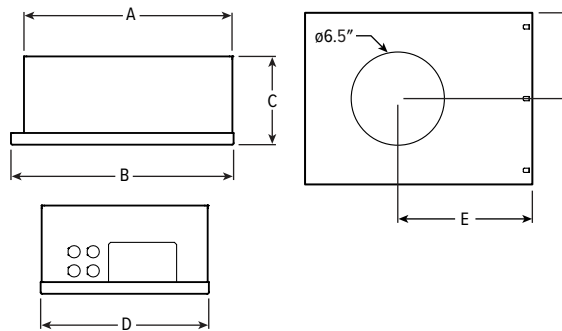
6PR PoE | tunable **WHITE** 6" Shallow Plenum Downlight – Round

MOUNTING TYPE DETAILS

NEW CONSTRUCTION



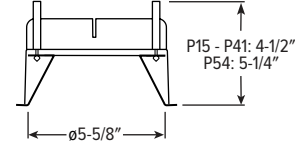
IC-RATED



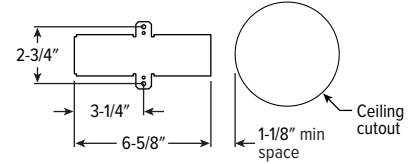
| LUMENS | LENGTH | | | | | |
|--------|----------|-----|--------|---------|--------|----|
| | A | B | C | D | E | F |
| P15 | 15-1/16" | 16" | 4-1/2" | 12-1/8" | 9-1/2" | 6" |
| P29 | 15-3/16" | 16" | 6-3/8" | 12-1/8" | 9-1/2" | 6" |

REMODEL

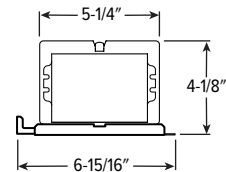
Cross Section



Receiver Bracket

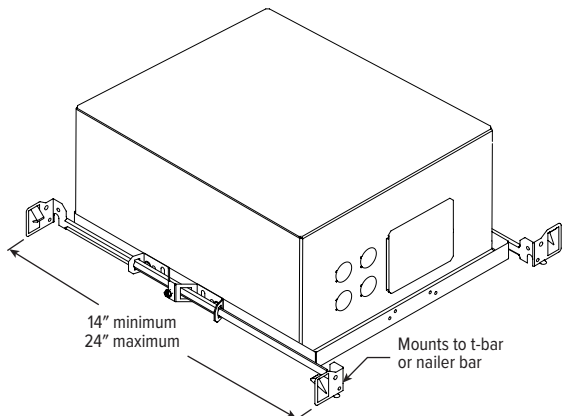
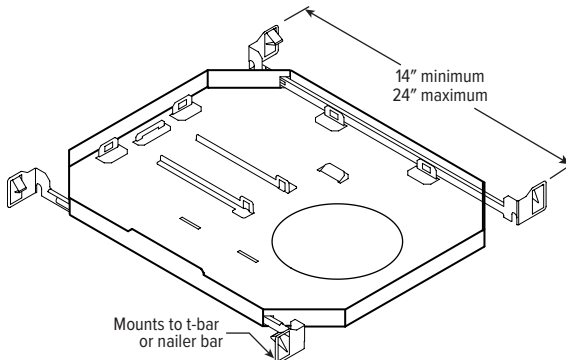


Driver and Junction Box



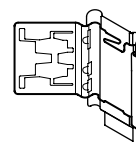
MOUNTING HARDWARE DETAILS

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

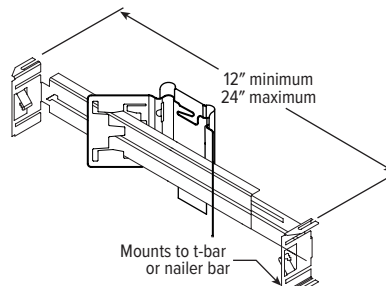


F1 with I Mounting Type

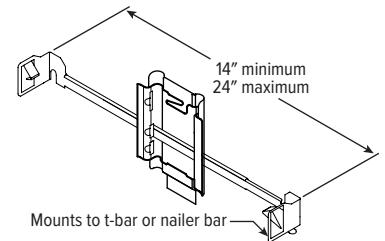
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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



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

