

CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

TrimLock®

- Create scalable, highly functioning smart buildings with Platformatics Power over Ethernet 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, 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 P46 and P62 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 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.
- 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
- Consult factory for design support



ORDERING EXAMPLE: **6DR - TL - P29/835 - OPTIONS - POE PR - OW - OF - CS - TRIM OPTIONS - N - F1**

HOUSING TRIM MOUNT.

HOUSING

| SERIES | LUMENS ^[1] | CRI | CCT | OPTIONS | CONTROL ^[2] |
|-----------------|-----------------------|----------------------------|---|---|--|
| 6DR - TL | P16 1,600lm | 8 80 | 27 2700K | SCA_ Sloped ceiling adapter ^[4] | POE PR Power over Ethernet, Platformatics-ready |
| TrimLock | P29 2,900lm | 9 90 ^[3] | 30 3000K | ATH Airtight construction | |
| | P46 4,600lm | | 35 3500K | CP Chicago plenum (CCEA) ^[5] | |
| | P62 6,200lm | | 40 4000K | | |
| | | | 50 5000K | | |
| | | | TW Tunable white (80 CRI, 2700K-5000K) | | |

TRIM^[6]

| TRIM TYPE | DISTRIBUTION ^[7] | FLANGE TYPE | REFLECTOR FINISH | TRIM OPTIONS |
|---|---------------------------------|--|---|---|
| O Open reflector | W Wide | OF 1/2" standard flange | Open trim types | MWT Textured white trim flange ^[14] |
| L Flush lens | 65° Open | SF 1/4" mud-in flange ^[13] | CS Clear semi-specular anodize | IP IP65 rated trim ^[15] |
| R Regressed lens | 55° Flush | | SG Satin-glow anodize | AD Diffuse acrylic lens ^[16] |
| A Angled lens ^[8] | 55° Regressed | | GD Gold anodize | PD Diffuse 1/8" polycarbonate lens ^[17] |
| S Non-conductive flush lens for shower applications ^[9] | M Medium ^[10] | | CG Champagne gold anodize | TD Diffuse polycarbonate lens media at top of open reflector ^[18] |
| | 35° Open | | PW Pewter anodize | WET/CC Wet location, covered ceiling listed |
| | 35° Flush | | SPC Clear specular anodize | AM Anti-microbial ^[19] |
| | 35° Regressed | | RG Rose gold anodize | |
| | N Narrow ^[11] | | WH White texture powder coat | |
| | 10° Open | | BL Black texture powder coat | |
| | 25° Flush | | Lens trim types | |
| | 25° Regressed | | CS Clear semi-specular powder coat | |
| WW Wall wash ^[12] | | | WH White texture powder coat | |
| | | | BL Black texture powder coat | |
| | | | MB Black texture splay with white flange ^[20] | |

MOUNTING

MOUNTING TYPE^[21]

- N** Open pan for new construction
- I** IC-rated enclosure for new construction^[23]
- R** Remodel kit^[24]

MOUNTING HARDWARE^[22]

- F1** Integral 2-position fixed pan bracket, universal bar hanger included^[25]
- BA1** Adjustable butterfly pan bracket, bar hanger not included^[26]
- CA1** Adjustable caterpillar pan bracket, universal bar hanger included^[27]

NOTES

- Static white lumen output based on O trim type, W distribution and CS finish, 80 CRI, 3000K for single CCT and 4000K for TW. See page 2 for FIXTURE PERFORMANCE DATA.
- See page 6 for NODE CONNECTION DETAILS. For additional PoE info, see hew.com/poe.
- Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
- 11-1/2" aperture, specify degrees of slope in 5° increments, 05°-30°. See page 4 for SLOPED CEILING ADAPTOR DETAILS. Not available with ATH or WET/CC option.
- I Mounting Type required.
- Trim ships separately
- Beam angle based on W distribution with CS or WH reflector finish. See page 2 for FIXTURE PERFORMANCE DATA.
- Available with WW Distribution only
- W Distribution, OF Flange Type, and WH Reflector Finish only. AD diffuse acrylic lens, IP and WET/CC options standard.
- Not available with lumen stops P46 and higher when specified with flush or regressed trim types.
- Not available with lumen stops P46 and higher when specified with flush or regressed trim types.
- O and A Trim Types only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit, see page 4 for FLANGE TYPE DETAILS, not available with ATH or IP options.
- Not available with WH Reflector Finish, L or S Trim Types.
- L and R trim types only.
- L and R Trim Types only. W distribution only.
- Not available with O Trim Type. W distribution only.
- O Trim Type only. WET/CC standard.
- WH and BL Reflector Finishes only. Not available with S Trim Type.
- R Trim Type only. Not available with MWT.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 6 for MOUNTING HARDWARE DETAILS.
- P16 lumen package only. P29 available, wide distribution only for lensed trims.
- Also used in new construction sheetrock ceilings. P29 lumen package max.
- N and I Mounting Types only. I Mounting requires external brackets.
- N Mounting Type only
- N Mounting Type only



FIXTURE PERFORMANCE DATA

STANDARD

OPEN REFLECTOR TRIM TYPE

| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| P16 | W | 1611 | 12.3 | 131.5 |
| | M | 1563 | 12.3 | 127.6 |
| | N | 1495 | 12.3 | 122.1 |
| P29 | W | 2947 | 25.0 | 117.9 |
| | M | 2855 | 25.0 | 114.0 |
| | N | 2731 | 25.0 | 109.0 |
| P46 | W | 4582 | 37.5 | 122.2 |
| | M | 4442 | 37.5 | 118.5 |
| | N | 4252 | 37.5 | 113.4 |
| P62 | W | 6158 | 50.0 | 123.2 |
| | M | 5970 | 50.0 | 119.4 |
| | N | 5715 | 50.0 | 114.3 |

TUNABLE WHITE

OPEN REFLECTOR TRIM TYPE

| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| P16 | W | 1343 | 12.3 | 109.6 |
| | M | 1303 | 12.3 | 106.4 |
| | N | 1246 | 12.3 | 101.7 |
| P29 | W | 2728 | 25.0 | 109.1 |
| | M | 2645 | 25.0 | 105.8 |
| | N | 2531 | 25.0 | 101.2 |
| P46 | W | 4070 | 37.5 | 108.5 |
| | M | 3945 | 37.5 | 105.2 |
| | N | 3776 | 37.5 | 100.7 |
| P62 | W | 4721 | 43.5 | 108.5 |
| | M | 4576 | 43.5 | 105.2 |
| | N | 4381 | 43.5 | 100.7 |

FLUSH LENS TRIM TYPE

| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| P16 | W | 1344 | 12.3 | 109.7 |
| | M | 1449 | 12.3 | 118.3 |
| | N | 1457 | 12.3 | 119.0 |
| P29 | W | 2454 | 25.0 | 98.2 |
| | M | 2645 | 25.0 | 105.8 |
| | N | 2661 | 25.0 | 106.4 |
| P46 | W | 3818 | 37.5 | 101.8 |
| | M | - | - | - |
| | N | - | - | - |
| P62 | W | 5145 | 50.0 | 102.9 |
| | M | - | - | - |
| | N | - | - | - |

FLUSH LENS TRIM TYPE

| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| P16 | W | 1120 | 12.3 | 91.4 |
| | M | 1207 | 12.3 | 98.6 |
| | N | 1215 | 12.3 | 99.2 |
| P29 | W | 2273 | 25.0 | 90.9 |
| | M | 2450 | 25.0 | 98.0 |
| | N | 2464 | 25.0 | 98.6 |
| P46 | W | 3400 | 37.5 | 90.7 |
| | M | - | - | - |
| | N | - | - | - |
| P62 | W | 3944 | 43.5 | 90.7 |
| | M | - | - | - |
| | N | - | - | - |

REGRESSED LENS TRIM TYPE

| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| P16 | W | 1301 | 12.3 | 106.2 |
| | M | 1409 | 12.3 | 115.0 |
| | N | 1420 | 12.3 | 115.9 |
| P29 | W | 2375 | 25.0 | 95.0 |
| | M | 2573 | 25.0 | 103.9 |
| | N | 2593 | 25.0 | 103.7 |
| P46 | W | 3695 | 37.5 | 98.5 |
| | M | - | - | - |
| | N | - | - | - |
| P62 | W | 4980 | 50.0 | 99.6 |
| | M | - | - | - |
| | N | - | - | - |

REGRESSED LENS TRIM TYPE

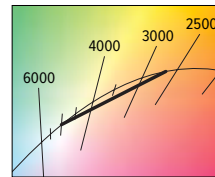
| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| P16 | W | 1084 | 12.3 | 88.5 |
| | M | 1175 | 12.3 | 95.9 |
| | N | 1184 | 12.3 | 96.6 |
| P29 | W | 2200 | 25.0 | 88.0 |
| | M | 2383 | 25.0 | 95.3 |
| | N | 2402 | 25.0 | 96.1 |
| P46 | W | 3291 | 37.5 | 87.8 |
| | M | - | - | - |
| | N | - | - | - |
| P62 | W | 3817 | 43.5 | 87.8 |
| | 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 | - |

| | REFLECTOR FINISH | |
|--------|------------------|-------------------|
| | CATALOG NUMBER | CONVERSION FACTOR |
| O TRIM | CS | 1.00 |
| | SG ¹ | 0.92 |
| | GD | 0.93 |
| | CG | 0.96 |
| | PW | 0.86 |
| | SPC | 1.02 |
| | RG | 0.88 |
| | WH ¹ | 0.89 |
| R TRIM | WH | 1.00 |
| | CS | 0.98 |
| | 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 |



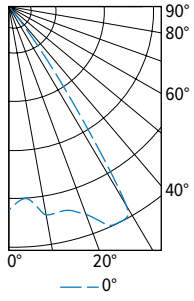
- Distribution will also be affected, consult factory.
- Use multiplier when specified with O Trim Type.
 - Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
 - Standard results based on 3500K/80 CRI, actual lumens may vary +/-5%
 - Tunable white results based on 4000K/80 CRI, actual lumens may vary +/-5%
 - Use multiplier tables to calculate additional options.



6DR PoE | tunable WHITE 6" Downlight – Round

PHOTOMETRY

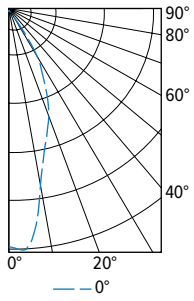
6DR-TL-P29/835-POE PR-OW-OF-CS Total Luminaire Output: 2947 lumens; 25.0 Watts | Efficacy: 117.9 lm/W | 80 CRI; 3500K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | ZONAL LUMENS |
|--------------------------|----------------|------------------|--------------|
| | | 0° | |
| | 0 | 2479 | |
| | 5 | 2341 | 224 |
| | 15 | 2572 | 729 |
| | 25 | 2938 | 1360 |
| | 35 | 895 | 563 |
| | 45 | 68 | 53 |
| | 55 | 19 | 17 |
| | 65 | 3 | 2 |
| | 75 | 0 | 0 |
| | 85 | 0 | 0 |
| | 90 | 0 | 0 |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 40 | 2870 | 98 |
| | 0 - 60 | 2945 | 100 |
| | 0 - 90 | 2947 | 100 |
| | 0 - 180 | 2947 | 100 |

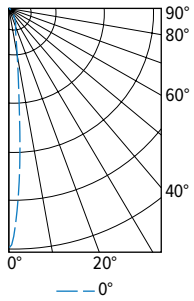
6DR-TL-P29/835-POE PR-OM-OF-CS Total Luminaire Output: 2855 lumens; 25.0 Watts | Efficacy: 114.2 lm/W | 80 CRI; 3500K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | ZONAL LUMENS |
|--------------------------|----------------|------------------|--------------|
| | | 0° | |
| | 0 | 5778 | |
| | 5 | 5719 | 498 |
| | 15 | 3347 | 943 |
| | 25 | 2033 | 933 |
| | 35 | 569 | 395 |
| | 45 | 67 | 59 |
| | 55 | 20 | 19 |
| | 65 | 6 | 6 |
| | 75 | 2 | 2 |
| | 85 | 0 | 0 |
| | 90 | 0 | 0 |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 40 | 2769 | 97 |
| | 0 - 60 | 2847 | 100 |
| | 0 - 90 | 2855 | 100 |
| | 0 - 180 | 2855 | 100 |

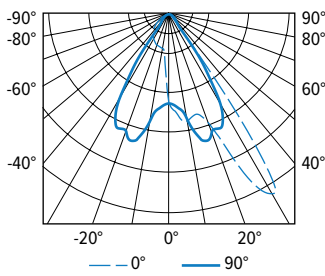
6DR-TL-P29/835-POE PR-ON-OF-CS Total Luminaire Output: 2731 lumens; 25.0 Watts | Efficacy: 109.2 lm/W | 80 CRI; 3500K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | ZONAL LUMENS |
|--------------------------|----------------|------------------|--------------|
| | | 0° | |
| | 0 | 29655 | |
| | 5 | 13251 | 1013 |
| | 15 | 2739 | 801 |
| | 25 | 1376 | 655 |
| | 35 | 326 | 241 |
| | 45 | 18 | 14 |
| | 55 | 5 | 5 |
| | 65 | 1 | 2 |
| | 75 | 0 | 1 |
| | 85 | 0 | 0 |
| | 90 | 0 | 0 |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 40 | 2709 | 99 |
| | 0 - 60 | 2728 | 100 |
| | 0 - 90 | 2731 | 100 |
| | 0 - 180 | 2731 | 100 |

6DR-TL-P29/835-POE PR-OWW-OF-CS Total Luminaire Output: 1665 lumens; 25.0 Watts | Efficacy: 66.6 lm/W | 80 CRI; 3500K CCT



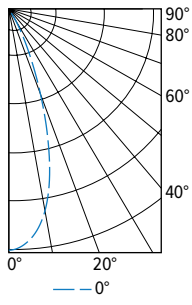
| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | | | | | ZONAL LUMENS |
|--------------------------|----------------|------------------|------|------|------|------|--------------|
| | | 0° | 45° | 90° | 135° | 180° | |
| | 0 | 1275 | 1275 | 1275 | 1275 | 1275 | |
| | 5 | 1441 | 1391 | 1328 | 816 | 665 | 108 |
| | 15 | 1470 | 1439 | 1861 | 454 | 482 | 308 |
| | 25 | 2561 | 1526 | 1734 | 396 | 453 | 561 |
| | 35 | 889 | 660 | 619 | 340 | 387 | 348 |
| | 45 | 71 | 60 | 145 | 274 | 305 | 130 |
| | 55 | 35 | 34 | 89 | 191 | 201 | 98 |
| | 65 | 26 | 24 | 53 | 115 | 119 | 67 |
| | 75 | 11 | 8 | 25 | 64 | 64 | 36 |
| | 85 | 0 | 0 | 4 | 14 | 10 | 9 |
| | 90 | 0 | 0 | 0 | 0 | 0 | 0 |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 40 | 1326 | 80 |
| | 0 - 60 | 1553 | 93 |
| | 0 - 90 | 1665 | 100 |
| | 0 - 180 | 1665 | 100 |



6DR PoE | tunable WHITE 6" Downlight – Round

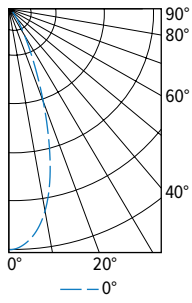
6DR-TL-P29/835-POE PR-LM-OF-WH Total Luminaire Output: 2646 lumens; 25.0 Watts | Efficacy: 105.8 lm/W | 80 CRI; 3500K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | ZONAL LUMENS |
|--------------------------|----------------|------------------|--------------|
| | | 0° | |
| | 0 | 6246 | |
| | 5 | 6001 | 550 |
| | 15 | 3928 | 1056 |
| | 25 | 1220 | 582 |
| | 35 | 319 | 212 |
| | 45 | 128 | 102 |
| | 55 | 76 | 69 |
| | 65 | 46 | 45 |
| | 75 | 23 | 24 |
| | 85 | 5 | 6 |
| | 90 | 0 | |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 40 | 2400 | 91 |
| | 0 - 60 | 2570 | 97 |
| | 0 - 90 | 2646 | 100 |
| | 0 - 180 | 2646 | 100 |

6DR-TL-P29/835-POE PR-RM-OF-WH Total Luminaire Output: 2573 lumens; 25.0 Watts | Efficacy: 102.9 lm/W | 80 CRI; 3500K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | ZONAL LUMENS |
|--------------------------|----------------|------------------|--------------|
| | | 0° | |
| | 0 | 6227 | |
| | 5 | 5965 | 546 |
| | 15 | 3854 | 1037 |
| | 25 | 1222 | 581 |
| | 35 | 324 | 214 |
| | 45 | 110 | 88 |
| | 55 | 60 | 54 |
| | 65 | 33 | 33 |
| | 75 | 14 | 15 |
| | 85 | 4 | 4 |
| | 90 | 1 | |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 40 | 2379 | 92 |
| | 0 - 60 | 2521 | 98 |
| | 0 - 90 | 2573 | 100 |
| | 0 - 180 | 2573 | 100 |

TRIMLOCK DETAILS

TWIST



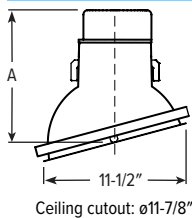
PULL



RELEASE



SLOPED CEILING ADAPTOR DETAILS

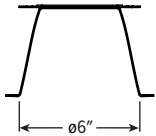


| LUMENS | A (HEIGHT) | | | | | | PLENUM HEIGHT |
|-----------|------------|----------|-----------|---------|-----------|---------|---------------|
| | 5° | 10° | 15° | 20° | 25° | 30° | |
| P16 - P46 | 10-11/16" | 10-7/8" | 10-15/16" | 10-7/8" | 10-13/16" | 10-5/8" | 11-1/4" |
| P62 | 11-7/16" | 11-9/16" | 11-5/8" | 11-5/8" | 11-1/2" | 11-1/4" | 12" |

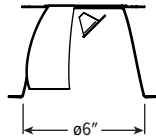
15° Shown

TRIM TYPE DETAILS

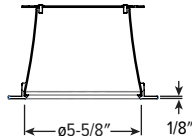
OPEN



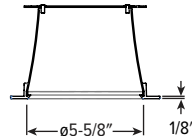
OPEN (WALL WASH)



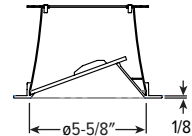
FLUSH



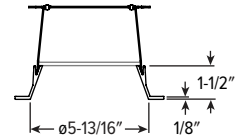
SHOWER



ANGLED

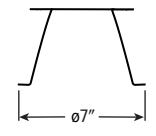


REGRESSED



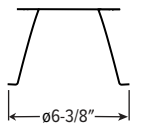
FLANGE TYPE DETAILS

1/2" STANDARD



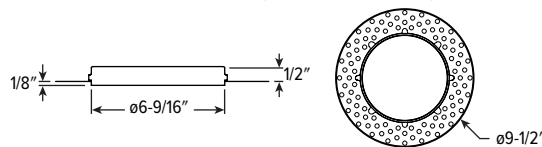
Ceiling Cutout: $\phi 6-1/2"$

1/4" MUD-IN



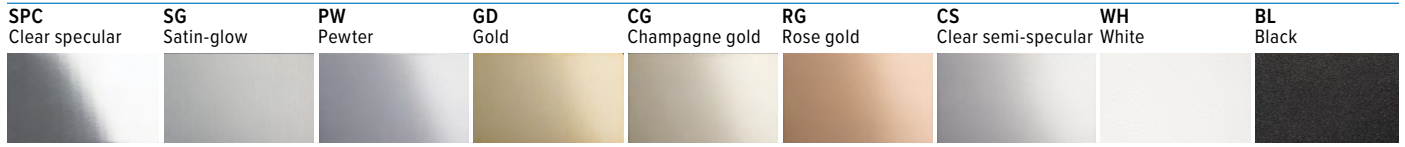
Ceiling cutout: $\phi 7"$

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



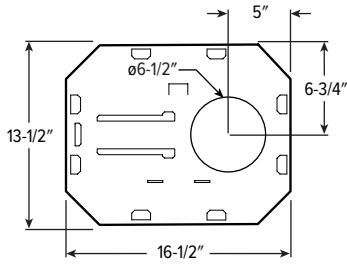
6DR PoE | tunable WHITE 6" Downlight – Round

REFLECTOR FINISH DETAILS

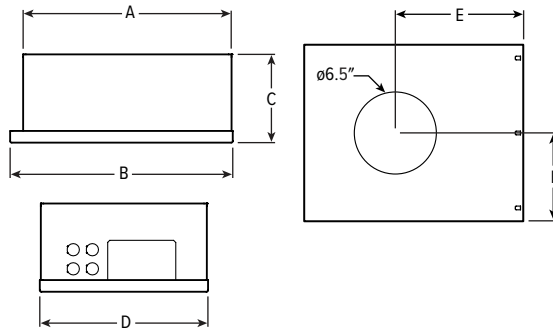


MOUNTING TYPE DETAILS

NEW CONSTRUCTION

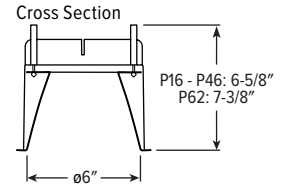


IC-RATED

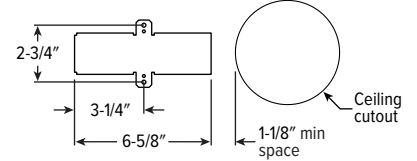


| LUMENS | LENGTH | | | | | |
|-----------|----------|-----|--------|---------|--------|---------|
| | A | B | C | D | E | F |
| P16 - P29 | 15-3/16" | 16" | 6-3/8" | 12-1/8" | 9-1/2" | 6-1/16" |

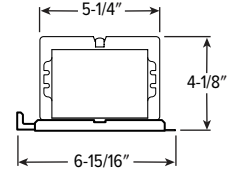
REMODEL



Receiver Bracket



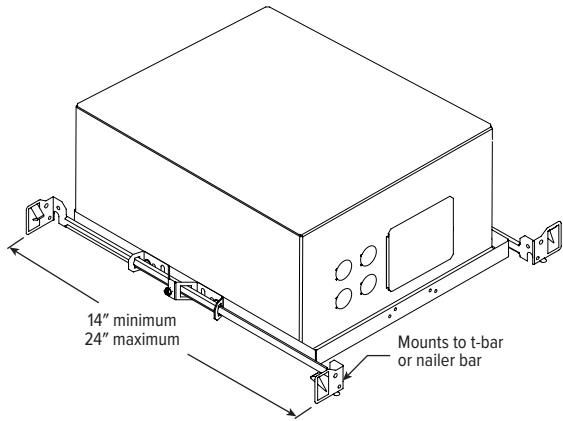
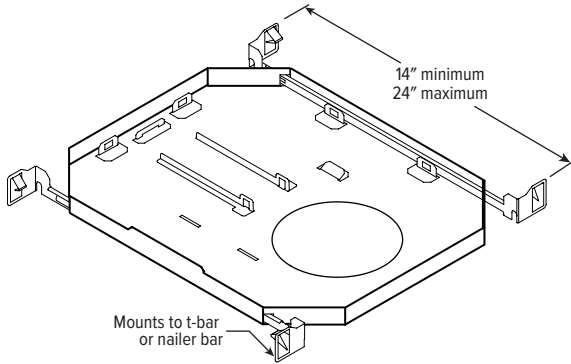
Driver and Junction Box



6DR PoE | tunable WHITE 6" Downlight – Round

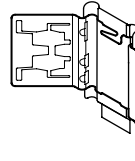
MOUNTING HARDWARE DETAILS

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

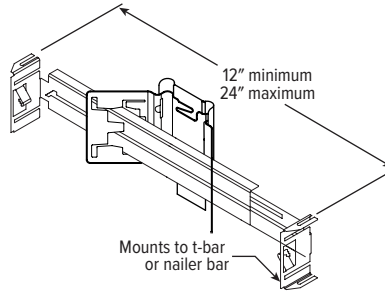


F1 with I Mounting Type

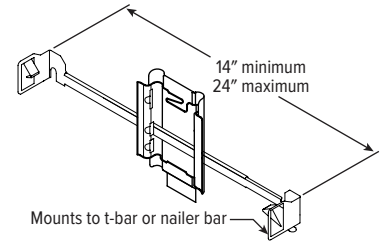
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



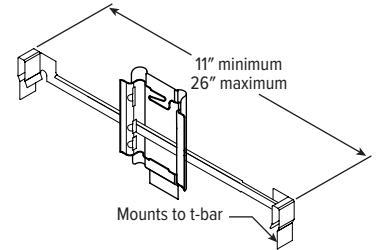
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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)



NODE CONNECTION DETAILS

Includes 24" cable with 4-position mating connector for Platformatics POE-LN2 node. See node spec sheet for details: platformatics.com/product/poe-ln2

