

CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

- Create scalable, highly functioning smart buildings with Platformatics Power over Ethernet controls
- Tunable white from 2700K to 5000K CCT, minimum 80 CRI

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".
- **OPEN REFLECTOR** – Low-iridescent anodized aluminum.
- **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 P35 and P49 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.

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: 4DS - P22/835 - OPTIONS - POE PR - LW - OF - WH - TRIM OPTIONS - N - F1
 HOUSING TRIM MOUNT.

HOUSING

| SERIES | LUMENS ^[1] | CRI | CCT | OPTIONS | CONTROL ^[2] |
|--------|----------------------------|---------------------|---|--|---|
| 4DS | P11 1,100lm | 8 80 | 27 2700K | ATH Airtight construction ^[6] | POE PR Power over Ethernet, Platformatics-ready |
| | P22 2,200lm | 9 90 ^[4] | 30 3000K | CP Chicago plenum (CCEA) ^[7] | |
| | P35 3,500lm | | 35 3500K | | |
| | P49 4,900lm ^[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 |
|-------------------------------|------------------------------|---------------------------------------|--|---|
| L Flush lens | W Wide | OF 1/2" standard flange | Open trim types | MWT Textured white trim flange ^[15] |
| O Open reflector | 55° Open | SF 1/4" mud-in flange ^[14] | CS Clear semi-specular anodize | IP IP65 rated trim ^[16] |
| R Regressed lens | 60° Flush | | SG Satin-glow anodize | AD Diffuse acrylic lens ^[17] |
| A Angled lens ^[10] | 60° Regressed | | GD Gold anodize | PD Diffuse 1/8" polycarbonate lens ^[18] |
| | M Medium ^[11] | | CG Champagne gold anodize | WET/CC Wet location, covered ceiling listed ^[19] |
| | 45° Open | | PW Pewter anodize | AM Anti-microbial ^[20] |
| | 35° Flush | | SPC Clear specular anodize | |
| | 35° Regressed | | RG Rose gold anodize | |
| | N Narrow ^[12] | | Lenz trim types | |
| | 40° Open | | CS Clear semi-specular powder coat | |
| | 35° Flush | | WH White texture powder coat | |
| | 25° Regressed | | BL Black texture powder coat | |
| | WW Wall wash ^[13] | | MB Black texture splay with white flange ^[21] | |

MOUNTING

MOUNTING TYPE ^[22]

- N Open pan for new construction
- I IC-rated enclosure for new construction ^[24]
- R Remodel kit ^[25]

MOUNTING HARDWARE ^[23]

- F1 Integral 2-position fixed pan bracket, universal bar hanger included ^[26]
- BA1 Adjustable butterfly pan bracket, bar hanger not included ^[27]
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included ^[28]

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.
- See page 5 for NODE CONNECTION DETAILS. For additional PoE info, see hew.com/poe.
- N Mounting Type only.
- Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
- P11 and P22 lumen packages only.
- I Mounting Type required.
- I Mounting Type required. P11 lumen package only.
- Trim ships separately.
- Beam angle based on CS or WH reflector finish.
- Available with WW Distribution only.
- Not available with P49.
- Not available with P49.
- O and A Trim Types only.
- 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.
- Not available with WH Reflector Finish or L Trim Type.
- L and R trim types only.
- Not available with O trim type. W and WW distributions only.
- Not available with O trim type. W and WW distributions only.
- Not available with O Trim Type. Not available with PD trim option.
- WH and BL Reflector Finishes only.
- R Trim Type only. Not available with MWT.
- 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 5 for MOUNTING HARDWARE DETAILS.
- P11 lumen package only.
- Also used in new construction sheetrock ceilings. P11 and P22 lumen packages only.
- 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) |
|-----|--------------|------------------|---------|-----------------|
| P11 | W | 1101 | 12.3 | 89.9 |
| | M | 1215 | 12.3 | 99.2 |
| | N | 1241 | 12.3 | 101.3 |
| P22 | W | 2067 | 25.0 | 82.7 |
| | M | 2281 | 25.0 | 91.2 |
| | N | 2331 | 25.0 | 93.3 |
| P35 | W | 3221 | 37.5 | 85.9 |
| | M | 3510 | 37.5 | 93.6 |
| | N | 3417 | 37.5 | 91.1 |
| P49 | W | 4543 | 50.0 | 90.9 |
| | M | - | - | - |
| | N | - | - | - |

TUNABLE WHITE

OPEN REFLECTOR TRIM TYPE

| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| P11 | W | 956 | 12.3 | 78.1 |
| | M | 1051 | 12.3 | 85.8 |
| | N | 1074 | 12.3 | 87.7 |
| P22 | W | 1944 | 25.0 | 77.8 |
| | M | 2118 | 25.0 | 84.7 |
| | N | 2062 | 25.0 | 82.5 |
| P35 | W | - | - | - |
| | M | - | - | - |
| | N | - | - | - |
| P49 | W | - | - | - |
| | M | - | - | - |
| | N | - | - | - |

FLUSH LENS TRIM TYPE

| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| P11 | W | 1193 | 12.3 | 97.4 |
| | M | 1310 | 12.3 | 107.0 |
| | N | 1330 | 12.3 | 108.6 |
| P22 | W | 2239 | 25.0 | 89.6 |
| | M | 2469 | 25.0 | 98.8 |
| | N | 2495 | 25.0 | 99.8 |
| P35 | W | 3488 | 37.5 | 93.0 |
| | M | 3799 | 37.5 | 101.3 |
| | N | 3657 | 37.5 | 97.5 |
| P49 | W | 4919 | 50.0 | 98.4 |
| | M | - | - | - |
| | N | - | - | - |

FLUSH LENS TRIM TYPE

| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| P11 | W | 1031 | 12.3 | 84.2 |
| | M | 1138 | 12.3 | 92.9 |
| | N | 1150 | 12.3 | 93.8 |
| P22 | W | 2105 | 25.0 | 84.2 |
| | M | 2293 | 25.0 | 91.7 |
| | N | 2207 | 25.0 | 88.3 |
| P35 | W | - | - | - |
| | M | - | - | - |
| | N | - | - | - |
| P49 | W | - | - | - |
| | M | - | - | - |
| | N | - | - | - |

REGRESSED LENS TRIM TYPE

| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| P11 | W | 1147 | 12.3 | 93.6 |
| | M | 1292 | 12.3 | 105.4 |
| | N | 1310 | 12.3 | 107.0 |
| P22 | W | 2151 | 25.0 | 86.0 |
| | M | 2425 | 25.0 | 97.0 |
| | N | 2469 | 25.0 | 98.8 |
| P35 | W | 3352 | 37.5 | 89.4 |
| | M | 3732 | 37.5 | 99.5 |
| | N | 3619 | 37.5 | 96.5 |
| P49 | W | 4727 | 50.0 | 94.5 |
| | M | - | - | - |
| | N | - | - | - |

REGRESSED LENS TRIM TYPE

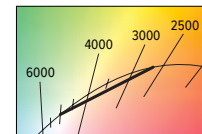
| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|--------------|------------------|---------|-----------------|
| P11 | W | 991 | 12.3 | 80.9 |
| | M | 1117 | 12.3 | 91.2 |
| | N | 1138 | 12.3 | 92.9 |
| P22 | W | 2023 | 25.0 | 80.9 |
| | M | 2252 | 25.0 | 90.1 |
| | N | 2184 | 25.0 | 87.4 |
| P35 | W | - | - | - |
| | M | - | - | - |
| | N | - | - | - |
| P49 | W | - | - | - |
| | 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 | - |

| OPEN REFLECTOR FINISH | | |
|-----------------------|---------------------|-------------------|
| CATALOG NUMBER | REFLECTOR FINISH | CONVERSION FACTOR |
| CS | Clear semi-specular | 1.00 |
| SG | Satin-glow | 0.92 |
| GD | Gold | 0.93 |
| CG | Champagne Gold | 0.96 |
| PW | Pewter | 0.86 |
| SPC | Specular | 1.02 |
| RG | Rose Gold | 0.88 |
| WH | White, textured | 0.89 |
| BL | Black, textured | 0.79 |

| TRIM | |
|----------------|-------------------|
| CATALOG NUMBER | CONVERSION FACTOR |
| AD | 0.85 |
| PD | 0.85 |



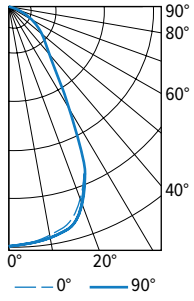
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Standard results based on 3500K/80 CRI, actual lumens may vary +/-5%
- Tunable white results based on 4000K/80 CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.



4DS PoE | tunable **WHITE** 4.5" Downlight – Square

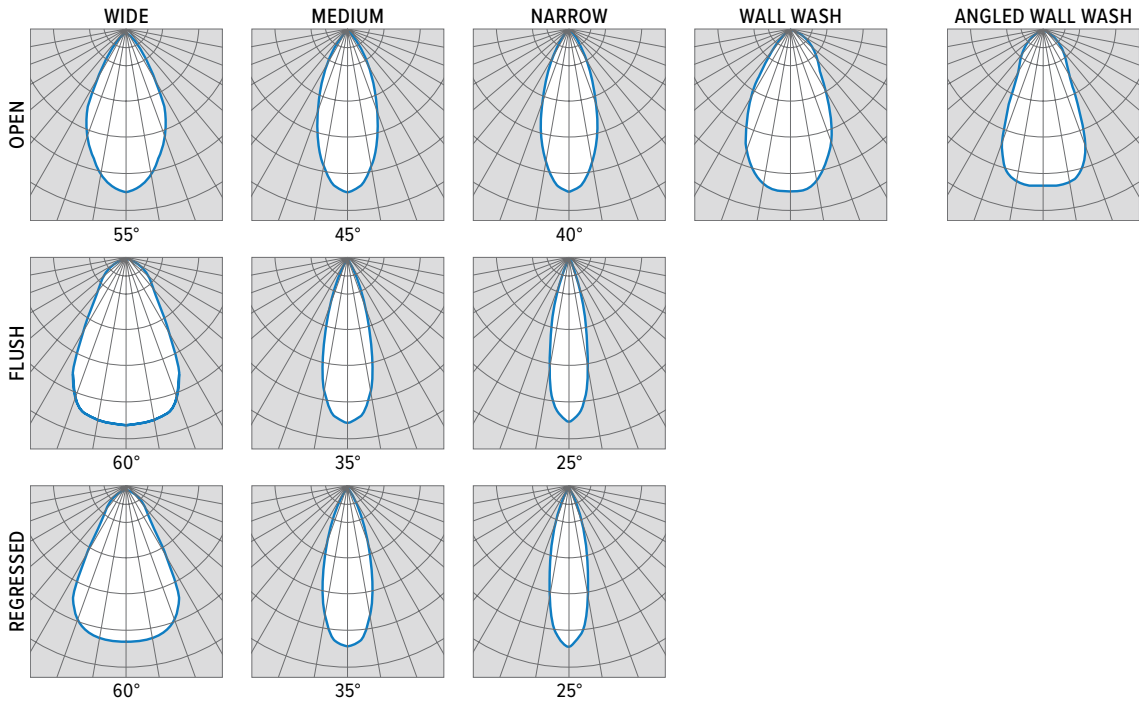
PHOTOMETRY

4DS-P22/835-POE PR-LW-OF-WH Total Luminaire Output: 2239 lumens; 25.0 Watts | Efficacy: 89.6 lm/W | 80 CRI; 3500K CCT

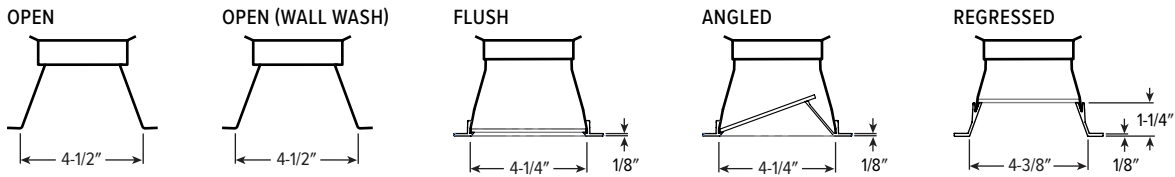


| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | | | ZONAL LUMENS |
|--------------------------|----------------|------------------|------|------|--------------|
| | | 0° | 45° | 90° | |
| | 0 | 1665 | 1665 | 1665 | |
| | 5 | 1650 | 1650 | 1651 | 157 |
| | 15 | 1556 | 1579 | 1589 | 442 |
| | 25 | 1208 | 1367 | 1211 | 575 |
| | 35 | 547 | 831 | 536 | 421 |
| | 45 | 346 | 375 | 343 | 281 |
| | 55 | 209 | 215 | 208 | 193 |
| | 65 | 110 | 107 | 108 | 111 |
| | 75 | 46 | 45 | 46 | 50 |
| | 85 | 5 | 4 | 6 | 9 |
| | 90 | 0 | 0 | 0 | |

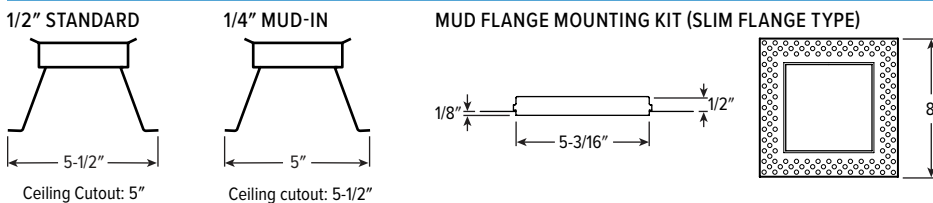
| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 30 | 1173 | 52 |
| | 0 - 40 | 1594 | 71 |
| | 0 - 60 | 2069 | 92 |
| | 0 - 90 | 2239 | 100 |
| | 0 - 180 | 2239 | 100 |



TRIM TYPE DETAILS

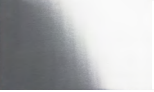
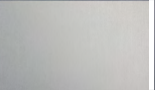
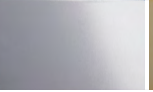
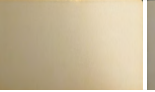
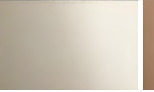
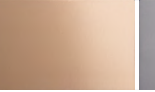
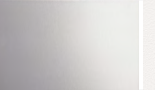
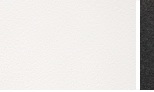
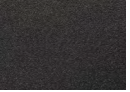


FLANGE TYPE DETAILS



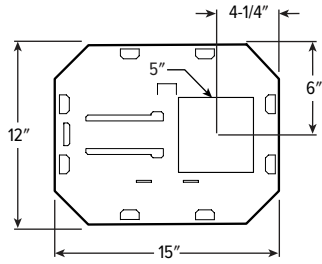
4DS PoE | tunable **WHITE** 4.5" Downlight – Square

REFLECTOR FINISH DETAILS

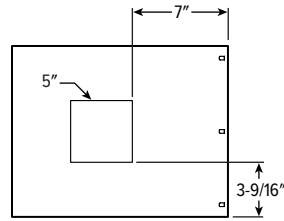
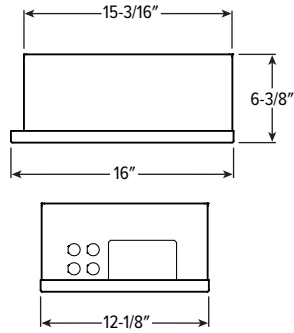
| SPC | SG | PW | GD | CG | RG | CS | WH | BL |
|---|---|---|---|---|--|---|---|---|
| Clear specular | Satin-glow | Pewter | Gold | Champagne gold | Rose gold | Clear semi-specular | White | Black |
|  |  |  |  |  |  |  |  |  |

MOUNTING TYPE DETAILS

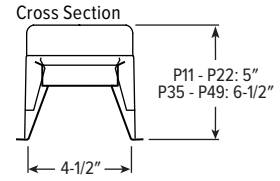
NEW CONSTRUCTION



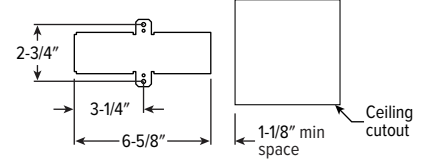
IC-RATED



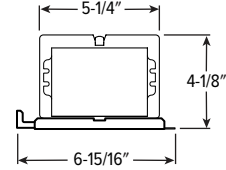
REMODEL



Receiver Bracket



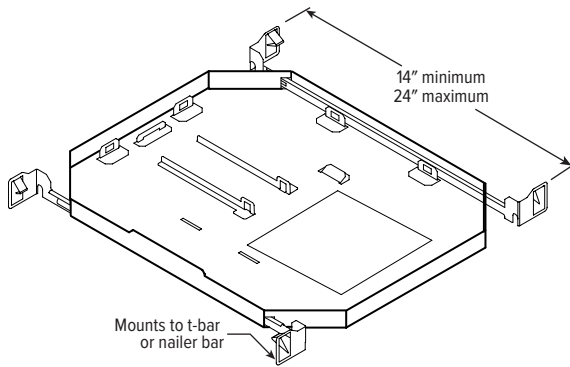
Driver and Junction Box



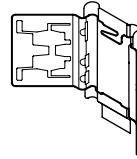
4DS PoE | tunable **WHITE** 4.5" Downlight – Square

MOUNTING HARDWARE DETAILS

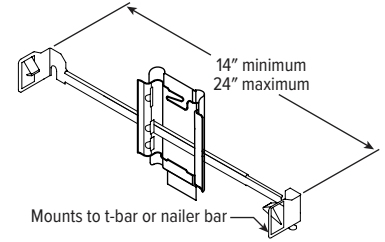
F1 Integral 2-position fixed pan bracket, universal bar hanger included



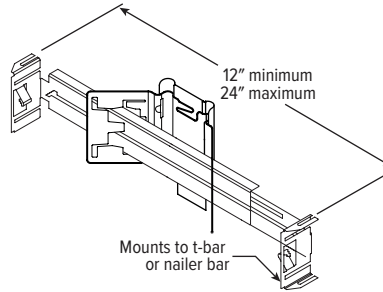
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



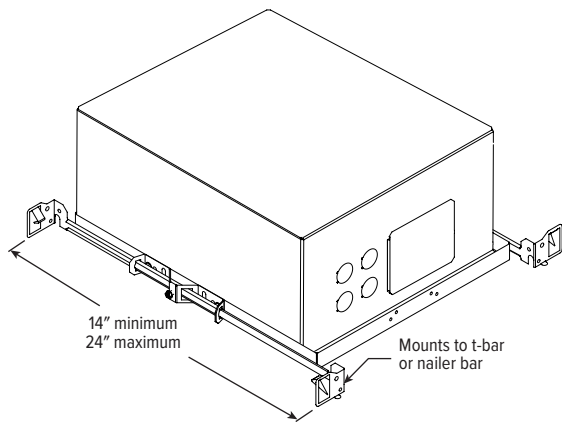
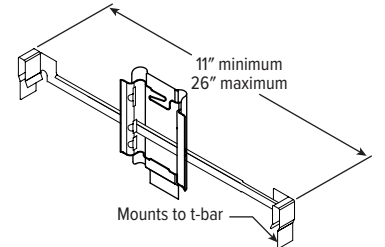
CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



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)



F1 with I Mounting Type

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

