# Fixed-CCT LED Zoom Profile Spotlight



10-20° /15-30°

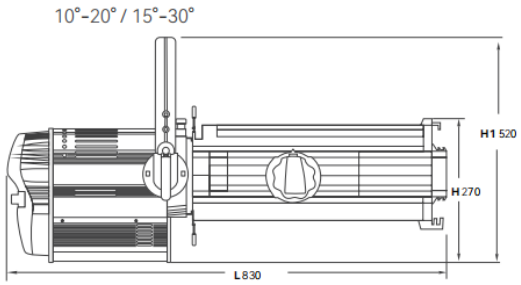


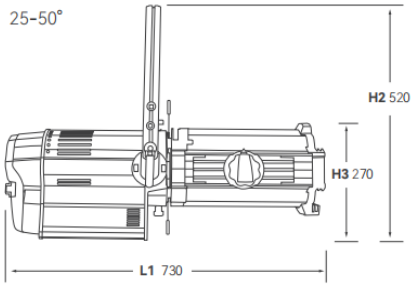
25-50°

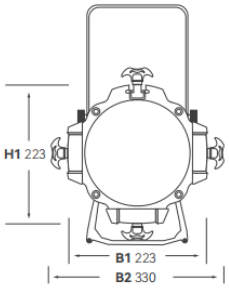


## Standard Version

| | | | |
|---|---|---|---|
| **DD-PF1020A56**<br>**10-20° 5600K/300W** | **DD-PF1020B56**<br>**10-20° 5600K/200W** | **DD-PF1020A32**<br>**10-20° 3200K/300W** | **DD-PF1020B32**<br>**10-20° 3200K/200W** |
| **DD-PF1530A56**<br>**15-30° 5600K/300W** | **DD-PF1530B56**<br>**15-30° 5600K/200W** | **DD-PF1530A32**<br>**15-30° 3200K/300W** | **DD-PF1530B32**<br>**15-30° 3200K/200W** |
| **DD-PF2550A56**<br>**25-50° 5600K/300W** | **DD-PF2550B56**<br>**25-50° 5600K/200W** | **DD-PF2550A32**<br>**25-50° 3200K/300W** | **DD-PF2550B32**<br>**25-50° 3200K/200W** |






10-20° /15-30°

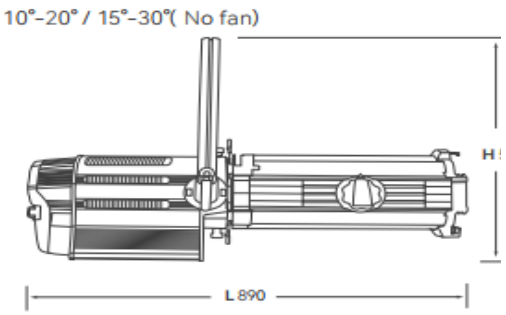


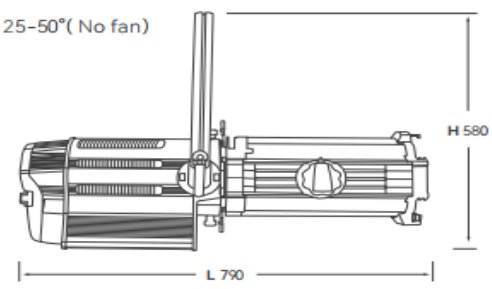
25-50°

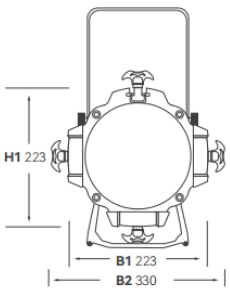


## Fanless Version

| | | |
|---|---|---|
| **DD-PF1020N56**<br>**10-20° 5600K/Fanless** | **DD-PF1530N56**<br>**15-30° 5600K/Fanless** | **DD-PF2550N56**<br>**25-50° 5600K/Fanless** |
| **DD-PF1020N32**<br>**10-20° 3200K/Fanless** | **DD-PF1530N32**<br>**15-30° 3200K/Fanless** | **DD-PF2550N32**<br>**25-50° 3200K/Fanless** |



# Fixed-CCT LED Zoom Profile Spotlight

Features & Specifications

## Light source

1. LED source:
300 W: 88 × single-CCT LEDs, 5 W rated power per LED
200 W: 88 × single-CCT LEDs, 3 W rated power per LED
2. LED lifetime: 50,000–100,000 hours.

## Power & Electrical

1. Input voltage: AC 100–240 V, 50/60 Hz
2. Maximum power consumption: 320 W or 230 W, Continuous operating power remains stable without power reduction.

## Control & Operation

1. Display: OLED display with Chinese and English menu interfaces; display size: 30 × 15 mm.
2. Control: DMX512 control and local control via buttons and rotary encoder for dimming adjustment.
3. Control protocol: DMX512 with RDM support.
4. DMX modes: 2-channel and 3-channel modes.
5. Dimming: 16-bit or higher smooth and linear flicker-free dimming with no perceptible delay; PWM frequency ≥28 kHz.
6. Dimming modes: 6 selectable dimming modes.
7. Zoom: Manual adjustment. Focus: Manual focus adjustment
8. Cooling & Noise: Intelligent variable-speed fan cooling; 200 W fanless version available. Fan speed automatically adjusts with fixture output, and the fan stops below 20% output. Maximum fan noise at 1 m is ≤39 dBA for 300 W and ≤29 dBA for 200 W. The fanless version operates silently.
9. Operating ambient temperature: −25 °C to +40 °C
10. IP rating: IP20

## Color Performance & Optical Specifications

1. CCT: Available in fixed-CCT versions of 3200 K or 5600 K. Custom CCT options are available on request. Average CCT deviation between narrow and wide beam angles is ≤3%, Beam CCT uniformity: Average CCT deviation between the beam center and surrounding area, Average CCT deviation between the beam center and the outermost edge of the projected beam: ≤6%.
2. CRI (Ra): ≥96
3. TLCI: ≥96
4. TM30(Rf): ≥91, TM30(Rg): ≥98
5. Luminous flux: 300W: 3200K: 10800 lm, 5600K: 12700 lm; 200W: 3200K: 8900 lm, 5600K: 10200 lm
6. Zoom ranges: 10°–20°, 15°–30°, 25°–50°
7. Optical system: The light passes through a multi-element optical system incorporating seven optical elements, producing a clean and highly uniform projected beam with no yellow or blue fringing、 no chromatic dispersion, no visible dark patterns, minimal chromatic dispersion, excellent color mixing and no ghosting or double-image effect.

## Construction & Standard Accessories

1. Housing material: Aluminum alloy
2. Surface finish: Anodized or powder-coated finish; custom colors are available according to customer requirements.
3. Standard accessories: Optical diffusion plate, power input/output connectors and signal input/output connectors. Additional accessories are available upon request and can be customized to meet specific customer requirements.
4. Iris & gobo holder: Optional iris and gobo holder available upon request.

**Fan-Cooled vs. Fanless Versions: Fanless Versions are available only for the 200 W model. Performance specifications are the same as the fan-cooled version, except that the fanless version is 6 cm longer, 1.1 kg heavier, and differently priced.**

## Dimensions & Weight

| Model / Zoom Range | Inner size /cm （cm） | Packing size/cm | NW/kg | GW/kg |
|---|---|---|---|---|
| 10°–20°(Fan-Cooled) | 87X29X29 | 94X31.5X33 | 14.8 | 16.8 |
| 15°–30°(Fan-Cooled) | 87X29X29 | 94X31.5X33 | 15.1 | 17.1 |
| 25°–50°(Fan-Cooled) | 77X29X29 | 85X31.5X33 | 14.5 | 16.3 |
| 10°–20°(Fanless) | 93X29X29 | 99X31.5X33 | 16 | 18 |
| 15°–30°(Fanless) | 93X29X29 | 99X31.5X33 | 16.3 | 18.3 |
| 25°–50°(Fanless) | 83X29X29 | 94X31.5X33 | 15.7 | 17.5 |

## Beam Diameter & Illuminance at Various Throw Distances

### 10°–20° Fixed-CCT LED Zoom Profile Spotlight

| Throw Distance (m) | | 3 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10° Beam Diameter (m) | | 0.53 | 1.05 | 1.4 | 1.75 | 2.1 | 2.45 | 2.8 | 3.15 | 3.5 | 3.85 | 4.2 | 4.55 | 4.9 | 5.25 |
| 20° Beam Diameter (m) | | 1.03 | 2.12 | 2.83 | 3.53 | 4.23 | 4.94 | 5.64 | 6.35 | 7.05 | 7.76 | 8.46 | 9.7 | 9.87 | 10.58 |
| 300W 3200K | 10° Center (lx) | 20681 | 5170 | 2908 | 1861 | 1293 | 950 | 727 | 574 | 465 | 385 | 323 | 275 | 237 | 207 |
| | 20° Center (lx) | 6802 | 1700 | 957 | 612 | 425 | 312 | 239 | 189 | 153 | 126 | 106 | 91 | 78 | 68 |
| 300W 5600K | 10° Center (lx) | 25162 | 6291 | 3539 | 2265 | 1573 | 1155 | 884 | 699 | 566 | 468 | 393 | 335 | 289 | 252 |
| | 20° Center (lx) | 8603 | 2150 | 1210 | 774 | 538 | 395 | 302 | 238 | 193 | 160 | 134 | 114 | 99 | 86 |
| 200W 3200K | 10° Center (lx) | 17903 | 4476 | 2518 | 1611 | 1119 | 822 | 629 | 497 | 403 | 333 | 280 | 238 | 206 | 179 |
| | 20° Center (lx) | 5580 | 1395 | 785 | 502 | 349 | 256 | 196 | 155 | 126 | 104 | 87 | 74 | 65 | 56 |
| 200W 5600K | 10° Center (lx) | 20408 | 5102 | 2870 | 1837 | 1276 | 937 | 717 | 567 | 459 | 379 | 319 | 272 | 234 | 204 |
| | 20° Center (lx) | 6778 | 1695 | 953 | 610 | 424 | 311 | 238 | 188 | 153 | 126 | 106 | 90 | 78 | 68 |

### 15°–30° Fixed-CCT LED Zoom Profile Spotlight

| Throw Distance (m) | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12.5 | 15 | 17.5 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15° Beam Diameter (m) | | 0.79 | 1.05 | 1.32 | 1.58 | 1.84 | 2.11 | 2.37 | 2.63 | 3.16 | 3.95 | 4.61 | 5.27 |
| 30° Beam Diameter (m) | | 1.61 | 2.14 | 2.68 | 3.22 | 3.75 | 4.29 | 4.82 | 5.36 | 6.7 | 8.04 | 9.38 | 10.72 |
| 300W 3200K | 15° Center (lx) | 13914 | 7826 | 5009 | 3479 | 2555 | 1956 | 1546 | 1253 | 801 | 557 | 408 | 313 |
| | 30° Center (lx) | 4300 | 2418 | 1548 | 1075 | 790 | 605 | 478 | 387 | 248 | 172 | 133 | 97 |
| 300W 5600K | 15° Center (lx) | 16689 | 9387 | 6008 | 4173 | 3065 | 2347 | 1854 | 1502 | 962 | 668 | 490 | 376 |
| | 30° Center (lx) | 5119 | 2879 | 1843 | 1280 | 940 | 720 | 569 | 461 | 295 | 205 | 150 | 116 |
| 200W 3200K | 15° Center (lx) | 11139 | 6266 | 4010 | 2785 | 2046 | 1567 | 1238 | 1003 | 641 | 445 | 327 | 250 |
| | 30° Center (lx) | 3251 | 1828 | 1171 | 813 | 598 | 457 | 361 | 293 | 187 | 130 | 96 | 73 |
| 200W 5600K | 15° Center (lx) | 13536 | 7614 | 4873 | 3384 | 2486 | 1903 | 1504 | 1218 | 780 | 541 | 398 | 305 |
| | 30° Center (lx) | 4104 | 2308 | 1477 | 1026 | 754 | 577 | 456 | 369 | 236 | 164 | 121 | 92 |

### 25°–50° Fixed-CCT LED Zoom Profile Spotlight

| Throw Distance (m) | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25° Beam Diameter (m) | | 1.33 | 1.77 | 2.22 | 2.66 | 3.1 | 3.55 | 3.99 | 4.43 | 4.88 | 5.32 | 5.76 | 6.21 | 6.65 |
| 50° Beam Diameter (m) | | 2.8 | 3.73 | 4.66 | 5.6 | 6.52 | 7.46 | 8.39 | 9.32 | 10.3 | 1.21 | 12.12 | 13.05 | 14 |
| 300W 3200K | 25° Center (lx) | 3780 | 2126 | 1361 | 945 | 695 | 531 | 420 | 340 | 281 | 239 | 201 | 174 | 151 |
| | 50° Center (lx) | 1195 | 672 | 430 | 299 | 219 | 168 | 133 | 107 | 89 | 74 | 64 | 55 | 48 |
| 300W 5600K | 25° Center (lx) | 4495 | 2529 | 1618 | 1123 | 825 | 632 | 500 | 404 | 335 | 281 | 240 | 207 | 179 |
| | 50° Center (lx) | 1548 | 871 | 557 | 387 | 284 | 217 | 173 | 140 | 115 | 97 | 82 | 71 | 62 |
| 200W 3200K | 25° Center (lx) | 3088 | 1737 | 1112 | 772 | 567 | 434 | 343 | 278 | 230 | 193 | 164 | 142 | 124 |
| | 50° Center (lx) | 1022 | 575 | 368 | 256 | 188 | 143 | 114 | 92 | 76 | 64 | 54 | 47 | 41 |
| 200W 5600K | 25° Center (lx) | 3813 | 2145 | 1373 | 953 | 700 | 536 | 424 | 343 | 283 | 238 | 203 | 175 | 152 |
| | 50° Center (lx) | 1275 | 717 | 459 | 318 | 234 | 180 | 142 | 115 | 95 | 80 | 67 | 59 | 51 |