

PHX3.5 Zoom Profile



PHX 340W RGLB LED Zoom Profile

The 15°-35° and 30°-55° PHX LED Zoom Spot are state of the art luminaires in function, style, and efficiency. These zoom spot profiles have been designed and engineered with a number of innovative details and features enhancing versatility and efficiency without sacrificing performance.

PHX 3.5 is a 340 Watt (RGLB) Red, Green, Blue, and Lime Zoom Spot outputting just over 10,000 Lumens which makes it a true front of house luminaire. A locking 360° rotating barrel help you keep the artistic part of your fixtures' focus intact with virtually no light leak.

The PHX3.5 features an RGLB array that won't force users to choose between deep saturates and gorgeous pastels; you'll be able to achieve brilliant whites ranging from 2700K all the way up to 10,000K along with deep golds, burning reds and springtime lavenders.

These new and innovative options are what makes the PHX LED Zoom Spot ideal for theaters, special events, television studios, or wherever superior, energy efficient lighting performance is required.



Product Features

- Red, Green, Blue, Lime LED Engine
- 360-degree rotating barrel
- Locking Shutters
- Positive locking double-clutch fixture body
- Heat resistant Plano-Convex lensing
- Die-cast aluminum and sheet metal fabrication
- Wide accessory slot with sliding cover for motorized pattern devices or optional iris
- Fully enclosed Boxed Front end Gel/Accessory holder.
- Color frame, C-Clamp, soft focus pattern holder, safety cable and 5 foot PowerCON included
- PowerCON in and out for daisy-chaining units
- 100 to 240 VAC 50/60 Hz operation
- Available standard in Black or White
- Yoke made from rigid flat steel with dual locking handles, two mounting positions and indexed tilt angle markings
- DMX512 in/thru via 5-pin XLR connector
- Compatible with DMX 512 and RDM protocols
- Multiple on-board control options: color fades and strobes
- User friendly control interface
- Console free stand alone Player Mode
- Multiple Dimming Curves
- Dimming - Smoothing Mode
- 8-bit or 16-bit virtual dimming engine provides smooth, high quality fades and minimizes color shift during dimming
- Four different control settings of:
 - 16-Bit Mode, Master Channel On (10 DMX Channels)
 - 16-Bit Mode, Master Channel Off (8 DMX Channels)
 - 8-bit Mode, Master Channel On (5 DMX Channels)
 - 8-bit Mode, Master Channel Off (4 DMX Channels)
- 25.5 lbs. (11.56 kg.)
- cETLus, CE and PSE (IP20 Rated for indoor use)
- Assembled in the USA
- Five (5) year and one (1) day warranty
- No cost technical support for the life of your product

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Photometric

15°-35° Degree Lens - Narrow

| Output Setting | Beam Angle | | Candela | | Beam Lumens | | |
|------------------------------|---------------|--------------|--------------|--------------|--------------|---------------|---------------|
| Full On | Narrow | | 238123 | | 12800 | | |
| Throw Distance | 10ft (3.0m) | 15ft (4.6m) | 20ft (6.1m) | 25ft (7.6m) | 30ft (9.1m) | 40ft (12.1m) | 50ft (15.2m) |
| Beam Diameter | 2.7ft (0.82m) | 4.0ft (1.2m) | 5.4ft (1.6m) | 6.7ft (2.0m) | 8.1ft (2.4m) | 10.8ft (3.3m) | 13.5ft (4.1m) |
| Illuminance (fc) at Full On | 2916 | 1296 | 729 | 467 | 324 | 182 | 117 |
| Illuminance (lux) at Full On | 31387 | 13950 | 7847 | 5022 | 3487 | 1962 | 1255 |

Note: To determine the center beam illumination in Foot candelas at any distance, divide Candela by the distance squared.

Note: To Calculate the Beam Diameter in feet with a 15-35 Degree Lens and set to Narrow Setting, Multiply any distance by 0.268.

15°-35° Degree Lens - Medium

| Output Setting | Beam Angle | | Candela | | Beam Lumens | | |
|------------------------------|--------------|--------------|-------------|---------------|---------------|--------------|---------------|
| Full On | Medium | | 85942 | | 11179 | | |
| Throw Distance | 10ft (3.0m) | 15ft (4.6m) | 20ft (6.1m) | 25ft (7.6m) | 30ft (9.1m) | 40ft (12.1m) | 50ft (15.2m) |
| Beam Diameter | 4.5ft (1.3m) | 6.7ft (2.0m) | 9ft (2.7m) | 11.2ft (3.4m) | 13.5ft (4.1m) | 18ft (5.4m) | 22.5ft (6.8m) |
| Illuminance (fc) at Full On | 1388 | 617 | 347 | 222 | 154 | 87 | 56 |
| Illuminance (lux) at Full On | 14940 | 6640 | 3735 | 2390 | 1660 | 934 | 598 |

Note: To determine the center beam illumination in Foot candelas at any distance, divide Candela by the distance squared.

Note: To Calculate the Beam Diameter in feet with a 15-35 Degree Lens and set to Medium Setting, Multiply any distance by 0.448.

15°-35° Degree Lens - Wide

| Output Setting | Beam Angle | | Candela | | Beam Lumens | | |
|------------------------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Full On | Wide | | 39366 | | 11448 | | |
| Throw Distance | 10ft (3.0m) | 15ft (4.6m) | 20ft (6.1m) | 25ft (7.6m) | 30ft (9.1m) | 40ft (12.1m) | 50ft (15.2m) |
| Beam Diameter | 6.3ft (1.9m) | 9.4ft (2.8m) | 12.6ft (3.8m) | 15.7ft (4.7m) | 18.9ft (5.7m) | 25.2ft (7.6m) | 31.5ft (9.6m) |
| Illuminance (fc) at Full On | 960 | 427 | 240 | 154 | 107 | 60 | 38 |
| Illuminance (lux) at Full On | 10332 | 4592 | 2583 | 1653 | 1148 | 646 | 413 |

Note: To determine the center beam illumination in Foot candelas at any distance, divide Candela by the distance squared.

Note: To Calculate the Beam Diameter in feet with a 15-35 Degree Lens and set to Wide Setting, Multiply any distance by 0.628.

30°-55° Degree Lens - Narrow

| Output Setting | Beam Angle | | Candela | | Beam Lumens | | |
|------------------------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| Full On | Narrow | | 47981 | | 10272 | | |
| Throw Distance | 10ft (3.0m) | 15ft (4.6m) | 20ft (6.1m) | 25ft (7.6m) | 30ft (9.1m) | 40ft (12.1m) | 50ft (15.2m) |
| Beam Diameter | 5.4ft (m) | 8.1ft (m) | 10.8ft (m) | 13.5ft (m) | 16.2ft (m) | 21.6ft (m) | 27ft (m) |
| Illuminance (fc) at Full On | 850 | 378 | 213 | 136 | 94 | 53 | 34 |
| Illuminance (lux) at Full On | 9149 | 4066 | 2287 | 1464 | 1017 | 572 | 366 |

Note: To determine the center beam illumination in Foot candelas at any distance, divide Candela by the distance squared.

Note: To Calculate the Beam Diameter in feet with a 30-55 Degree Lens and set to Narrow Setting, Multiply any distance by 0.54.

30°-55° Degree Lens - Medium

| Output Setting | Beam Angle | | Candela | | Beam Lumens | | |
|------------------------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| Full On | Medium | | 25901 | | 11065 | | |
| Throw Distance | 10ft (3.0m) | 15ft (4.6m) | 20ft (6.1m) | 25ft (7.6m) | 30ft (9.1m) | 40ft (12.1m) | 50ft (15.2m) |
| Beam Diameter | 7.6ft (m) | 11.5ft (m) | 15.3ft (m) | 19.1ft (m) | 22.9ft (m) | 30.6ft (m) | 38.2ft (m) |
| Illuminance (fc) at Full On | 540 | 240 | 135 | 86 | 60 | 34 | 22 |
| Illuminance (lux) at Full On | 5813 | 2583 | 1453 | 930 | 646 | 363 | 233 |

Note: To determine the center beam illumination in Foot candelas at any distance, divide Candela by the distance squared.

Note: To Calculate the Beam Diameter in feet with a 30-55 Degree Lens and set to Medium Setting, Multiply any distance by 0.765.

30°-55° Degree Lens - Wide

| Output Setting | Beam Angle | | Candela | | Beam Lumens | | |
|------------------------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| Full On | Wide | | 15515 | | 11015 | | |
| Throw Distance | 10ft (3.0m) | 15ft (4.6m) | 20ft (6.1m) | 25ft (7.6m) | 30ft (9.1m) | 40ft (12.1m) | 50ft (15.2m) |
| Beam Diameter | 9.9ft (m) | 14.8ft (m) | 19.8ft (m) | 24.7ft (m) | 29.7ft (m) | 39.6ft (m) | 49.5ft (m) |
| Illuminance (fc) at Full On | 352 | 156 | 88 | 56 | 39 | 22 | 14 |
| Illuminance (lux) at Full On | 3785 | 1682 | 946 | 606 | 421 | 237 | 151 |

Note: To determine the center beam illumination in Foot candelas at any distance, divide Candela by the distance squared.

Note: To Calculate the Beam Diameter in feet with a 30-55 Degree Lens and set to Wide Setting, Multiply any distance by 0.988.

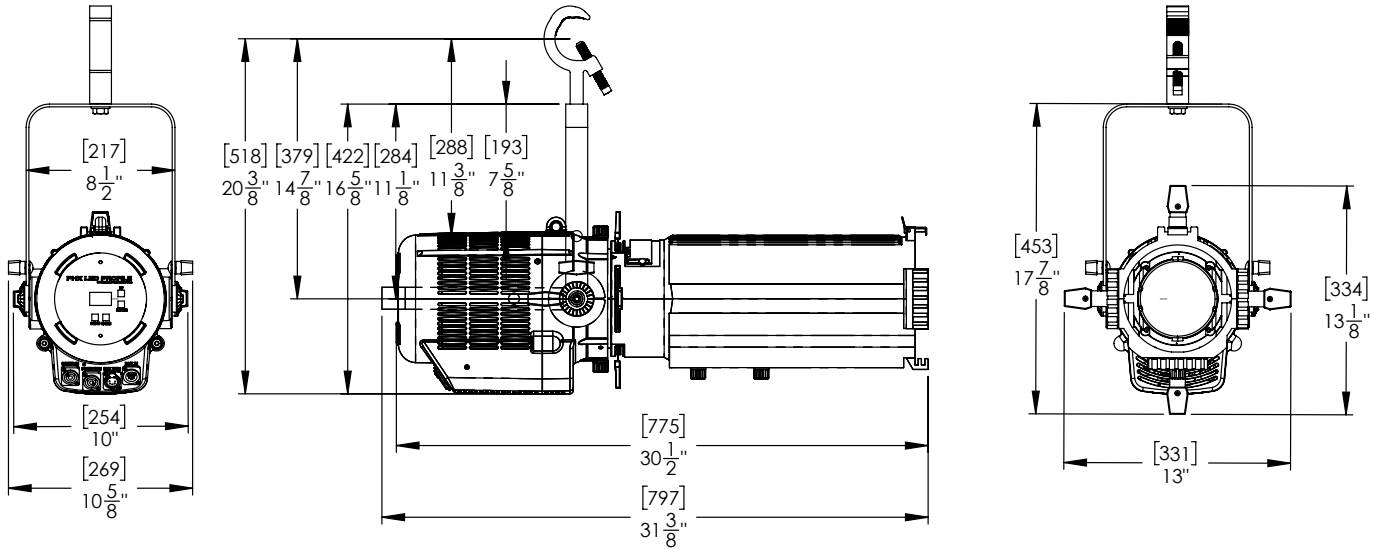
PHX3.5 Zoom Profile



PHX 340W RGBL LED Zoom Profile

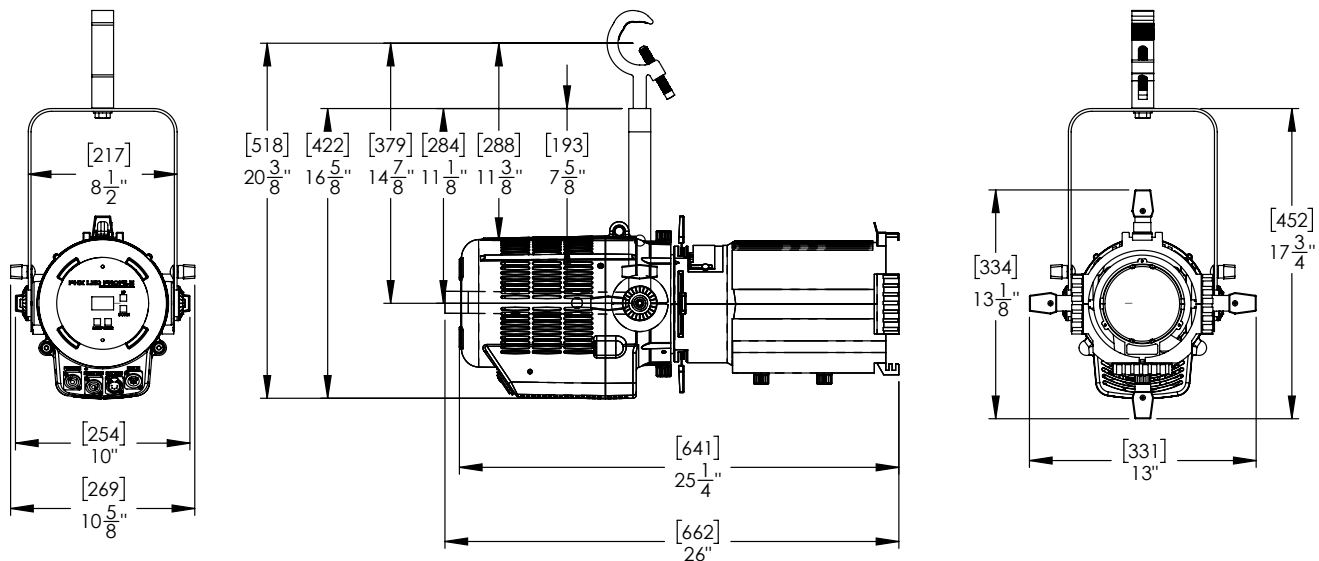
PHX3.5 Zoom Profile with 15°-35° Degree Lens - Dimensions

| Weight | Height | Length | Width |
|--------------------------|-------------------|-------------------|---------------|
| 26.55 lbs. (12.34 kgs.)* | 20.375" * (518mm) | 31.375" * (797mm) | 13" * (331mm) |



PHX3.5 Zoom Profile with 30°-55° Degree Lens - Dimensions

| Weight | Height | Length | Width |
|--------------------------|-------------------|---------------|---------------|
| 26.55 lbs. (12.34 kgs.)* | 20.375" * (518mm) | 26" * (662mm) | 13" * (331mm) |



PHX3.5 Zoom Profile



PHX 340W RGLB LED Zoom Profile

Specifications

LED Source

| | |
|-----------------------|-------------------------------------|
| LED Engine | RGLB Engine |
| Max Power Consumption | 340 Watts |
| Rated LED Life: | Arrays are rated for >50,000 to L70 |

Optical

| | |
|---------------|------------------------------------|
| Zoom Settings | 15-35 - 15°-35° 30-55 - 30°-55° |
|---------------|------------------------------------|

Control and Programming

| | |
|-------------------|---|
| Input Connections | DMX512 via 5-pin XLR connector |
| Protocols | DMX512 / RDM |
| Modes | 8bit (4 DMX Channels) 8bit + Master Channel (5 DMX) 16bit (8 DMX Channels) 16bit + Master Channel (10 DMX) |
| RDM Configuration | Yes |
| User Interface | On Board LCD for User Interface with options to change settings |

DMX Values for White Setting

| | RED | GREEN | BLUE | LIME | WATTS |
|-------|------|-------|------|------|-------|
| 3200K | 100% | 73% | 63% | 100% | 193W |
| 4200K | 100% | 88% | 72% | 100% | 230W |
| 5600K | 100% | 96% | 84% | 100% | 267W |

Electrical

| | |
|-------------------|---|
| Voltage Range: | 100-240 VAC, 50/60 Hz |
| Input Connection: | Neutrik PowerCon Input and Through Connector |
| Quiescent Load: | 0.087 AMP (10.54 W) @ 120 VAC* 0.045 AMP (10.54 W) @ 240 VAC* |
| Current Draw: | 2.83A at 120VAC / 1.41A at 230VAC |
| Power Factor: | ≥ 0.95 |
| Max Daisy Chain: | Up to 5 Units at 120VAC* Up to 10 units at 230 VAC* * Recommended Power linking of units via Powercon connection. |

Thermal

| | |
|------------------------|--|
| Ambient Operating Temp | 0 - 50°C (32 - 122°F) with humidity of 5-95% non-condensing) |
| Fan | Control Fan: Low, On, Auto |
| BTUs/Hour | 1160.08 BTU per hour(*At Full Intensity) |

Construction

| | |
|---------------|--|
| Materials | Corrosion-resistant materials and hardware |
| Color Options | Black, White or Custom |
| Mounting | Yoke |
| IP Rating | IP20 |
| Weight | 26.55lbs (12.34kg) |

Warranty

| | |
|---------|---------------------------------|
| Fixture | 5 Years and 1 Day. |
| Support | Forever the life of the Product |

Compliance

| | |
|-------------------|-------------------------|
| Compliance Marks | cETLus listed CE marked |
| Country of Origin | Assembled in the USA |

PHX3.5 Zoom Profile



PHX 340W RGBL LED Zoom Profile

Ordering Information Models

| Model: | LED Array: | Lens * | Body Color: ** |
|--------|---------------------|--|--------------------------------------|
| PHX3.5 | RGBL - Color Mixing | 15Z - 15°-35° Lens 30Z - 30°-55° Lens | B - Black W - White C - Custom |

Note: When ordering the fixture simply select an option from each column and that will produce your ordering part number.

Example - For the PHX3.5 Unit with an RGBL LED Array with a 15°-35° Zoom Lens in Black, the part number would be PHX3.5-RGBL-15Z-B

Color: Fixture ship standard as Black. If White or Custom are required that could result in a longer lead time.

Custom Color: Consult factory for custom colors

Included Items

| | |
|--------------------|--|
| PHX3.5-RGBL-15Z-** | Color Frame 7-1/2"x7-1/2" (6-CFB), 36" Safety Chain (SC-36-BK), 5' 20A PowerCON to Edison (PCL-PBG-12-5), PHX Zoom Soft Focus Lens (PHXZ-SFLGSB) |
| PHX3.5-RGBL-30Z-** | Color Frame 7-1/2"x7-1/2" (6-CFB), 36" Safety Chain (SC-36-BK), 5' 20A PowerCON to Edison (PCL-PBG-12-5), PHX Zoom Soft Focus Lens (PHXZ-SFLGSB) |

Accessories

| Model: | Description: |
|----------|---|
| 510 | Malleable Iron Clamp |
| 515 | Extruded Aluminum C-Clamp |
| 510-HD | Heavy Duty Malleable Iron Pipe Clamp |
| SC-36-BK | 36-Inch Black Safety Cable with Spring Clip |
| 4.5-DN | 6-1/4" x 6-1/4" Donut, Black with 2-1/2" Hole |
| 10-DN | 12" x 12" Donut, Black for 10° lens |
| 12-SN | 14" x 14" Donut, Black for 5° lens |
| PDII | Phoenix Drop In Iris |

Note: There are many aftermarket accessories for Altman Lighting products available through third-party suppliers. When considering these aftermarket accessories, we suggest that you consult with your Altman Regional Sales Manager beforehand regarding capability and effects on product performance.

Pattern Holders

| Model: | Description: |
|----------------|---|
| PHXZ-SFLGSB | PHX Zoom Soft Focus lens with B Size Pattern Holder |
| PHXZ-PHGSB | B Size Steel Pattern Holder (86mm OD / 64.5mm IA) |
| PHXZ-PHGSB-3T | B Size Steel Pattern Holder (86mm OD / 64.5mm IA) 3 Tab Style |
| PHX-PHISB | B Size Steel Pattern Holder (86mm OD / 64.5mm IA) for Iris Slot |
| PHX-PHISA-GLS | A Size Glass Pattern Holder (100mm OD / 75mm IA) for Iris Slot |
| PHX-PHISB-GLS | B Size Glass Pattern Holder (82mm OD / 64.5mm IA) for Iris Slot |
| PHX-PHIS86-GLS | B Size Glass Pattern Holder (86mm OD / 64.5mm IA) for Iris Slot |

Power Input Cables

| Model: | Connector Type: | Wire Size: | Length: |
|---------------------|---|------------|-----------------------------------|
| PCL - PowerCON Blue | BARE - Bare End Cable 2P&G - Stage Pin Male PBG - Edison Male TLG - L5-20 Twist Lock Male GTL - L5-15 Twist Lock Male | 12 | 5 - 5ft 10 - 10ft 25 - 25ft |

Note: When ordering the PowerCON Cable simply select an option from each column and that will produce your ordering part number.

DMX Cables

| Model: | Number of Pins: | Length: |
|-----------------|-----------------|--|
| XLR - DMX Cable | 5 - 5 pin DMX | 5 - 5ft 10 - 10ft 15 - 15ft 25 - 25ft 50 - 50ft 100 - 100ft |

Note: When ordering the XLR DMX Cable simply select an option from each column and that will produce your ordering part number.