

PHX 1.5 FIXED PROFILE

PHX 150W RGBL CONVECTION-COOLED PROFILE



PHOENIX
BY ALTMAN

The 5°, 10°, 19°, 26°, 36° and 50° fixed focus PHX 1.5 LED profiles are state of the art luminaries in function, style, and efficiency. These profiles have been designed and engineered with a number of innovative details and features enhancing versatility and efficiency without sacrificing performance.

PHX 1.5 is a 150 Watt (RGBL) Red, Green, Blue, and Lime Profile Spot outputting over 10,000 Lumens which makes it a true front of house luminaire. A 360° rotating barrel and fully locking shutters help you keep the artistic part of your fixtures' focus intact with virtually no light leak.

The PHX1.5 features an RGBL 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.

Fully locking shutters and a 360° rotating barrel help keep the artistic part of your fixtures focus intact and easy to attain with virtually no light leak. The aesthetic appearance and ergonomically designed function controls only add to the appeal.

Bringing Imagination to Light™



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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Photometrics

5 Degree Lens

Output Setting	Beam Angle					
Full On	5°					
Throw Distance	20ft (6.1m)	30ft (9.1m)	40ft (12.1m)	50ft (15.2m)	60ft (18.2m)	70ft (21.3m)
Beam Diameter	1.8ft (0.5m)	2.7ft (0.8m)	3.6ft (1.0m)	4.5ft (1.3m)	5.4ft (1.6m)	6.3ft (1.9m)
Illuminance (fc) at Full On	1028	456	257	164	114	83
Illuminance (lux) at Full On	11065	4908	2766	1765	1227	893

Note: To Calculate the Beam Diameter in feet with a 5 Degree Lens, Multiply any distance by 0.09.

10 Degree Lens

Output Setting	Beam Angle					
Full On	10°					
Throw Distance	20ft (6.1m)	30ft (9.1m)	40ft (12.1m)	50ft (15.2m)	60ft (18.2m)	70ft (21.3m)
Beam Diameter	3.5ft (1.0m)	5.4ft (1.6m)	7.2ft (2.1m)	9ft (2.7m)	10.8ft (3.2m)	12.6ft (3.8m)
Illuminance (fc) at Full On	491	218	122	78	54	40
Illuminance (lux) at Full On	5285	2346	1313	839	581	430

Note: To Calculate the Beam Diameter in feet with a 10 Degree Lens, Multiply any distance by 0.18.

19 Degree Lens

Output Setting	Beam Angle						
Full On	19°						
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	3.4ft (1.0m)	5.1ft (1.5m)	6.8ft (2.0m)	8.5ft (2.6m)	10.2ft (3.1m)	13.6ft (4.1m)	17ft (5.1m)
Illuminance (fc) at Full On	520	231	130	83	57	32	20
Illuminance (lux) at Full On	5597	2486	1399	893	613	344	215

Note: To Calculate the Beam Diameter in feet with the 19 Degree Lens, Multiply any distance by 0.34.

26 Degree Lens

Output Setting	Beam Angle						
Full On	26°						
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	4.6ft (1.4m)	7.0ft (2.1m)	9.3ft (2.8m)	11.7ft (3.5m)	14ft (4.2m)	18.7ft (5.6m)	23.4ft (7.1m)
Illuminance (fc) at Full On	272	121	68	43	30	17	10
Illuminance (lux) at Full On	2928	1301	732	468	325	183	117

Note: To Calculate the Beam Diameter in feet with the 26 Degree Lens, Multiply any distance by 0.465

36 Degree Lens

Output Setting	Beam Angle						
Full On	36°						
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	6.4ft (1.9m)	9.7ft (2.9m)	12.9ft (3.9m)	16.2ft (4.9m)	19.4ft (5.9m)	25.9ft (7.9m)	32.4ft (9.8m)
Illuminance (fc) at Full On	161	71	40	25	17	10	6
Illuminance (lux) at Full On	1738	772	434	278	193	109	70

Note: To Calculate the Beam Diameter in feet with the 36 Degree Lens, Multiply any distance by 0.645.

50 Degree Lens

Output Setting	Beam Angle						
Full On	50°						
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	9ft (2.7m)	13.5ft (4.1m)	18ft (5.4m)	22.5ft (6.8m)	27ft (8.2m)	36ft (10.9m)	45ft (13.7m)
Illuminance (fc) at Full On	94	41	23	15	10	6	3
Illuminance (lux) at Full On	1011	449	253	162	112	63	40

Note: To Calculate the Beam Diameter in feet with the 50 Degree Lens, Multiply any distance by 0.9.

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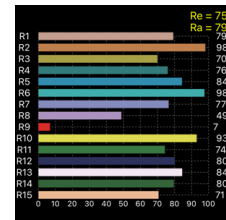
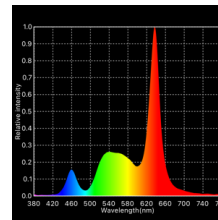
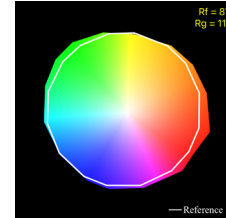
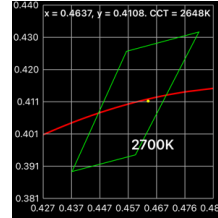
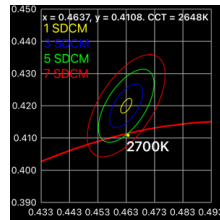
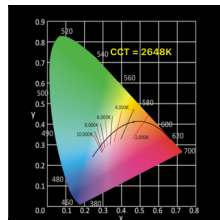
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CCT Measurements

PHX1.5 RGBL - 2700K

Parameter	Value
CCT	2648 K
Duv	-0.0002
CRI(Ra)	79
Re(R1-R15)	75
CQS	90
TLCI(Qa)	81.8
GAI	55.4
TM-30-15 Rf	87
TM-30-15 Rg	111
Illuminance	2964 lux
Foot Candle	275.3 fc

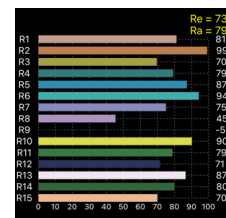
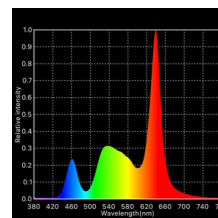
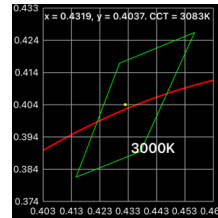
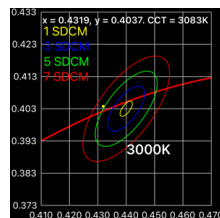
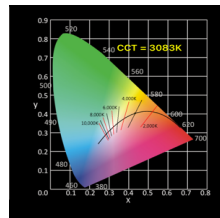
DMX Settings				
Colors	Red	Green	Blue	Lime
DMX % (0-100)	100	51	59	100
DMX Value (0-255)	255	129	148	255



PHX1.5 RGBL - 3200K

Parameter	Value
CCT	3083 K
Duv	0.0006
CRI(Ra)	79
Re(R1-R15)	73
CQS	90
TLCI(Qa)	79.0
GAI	68
TM-30-15 Rf	86
TM-30-15 Rg	109
Illuminance	3049 lux
Foot Candle	283.2 fc

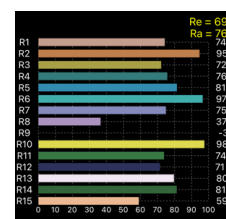
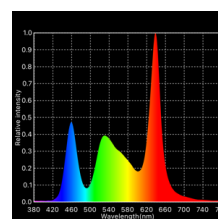
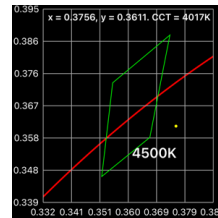
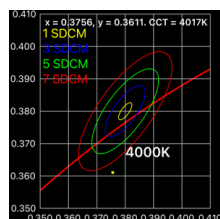
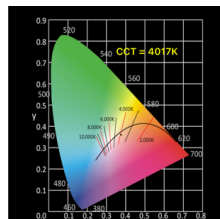
DMX Settings				
Colors	Red	Green	Blue	Lime
DMX % (0-100)	100	62	63	100
DMX Value (0-255)	255	159	162	255



PHX1.5 RGBL - 4000K

Parameter	Value
CCT	4017 K
Duv	-0.0061
CRI(Ra)	76
Re(R1-R15)	69
CQS	89
TLCI(Qa)	71.8
GAI	100.7
TM-30-15 Rf	83
TM-30-15 Rg	111
Illuminance	3509 lux
Foot Candle	326.0 fc

DMX Settings				
Colors	Red	Green	Blue	Lime
DMX % (0-100)	100	73	73	100
DMX Value (0-255)	255	46	46	255



Measurement Criteria:

The following slides reflect several CCT measurements for the PHX 1.5 RGBL Ellipsoidal Measurements taken:

@ 10'-0" - Utilizing fixed beam 26° standard lens system
After 30 Minute warm up - 22°C Environment
DMX 8 Bit - 4 Channel mode
Smoothing Off

Rf = 87

Rg = 111

Re = 75

Ra = 79

R3 = 98

R4 = 70

R5 = 76

R6 = 84

R7 = 98

R8 = 77

R9 = 49

R10 = 7

R11 = 93

R12 = 74

R13 = 86

R14 = 84

R15 = 80

R16 = 71

R17 = 81

R18 = 79

R19 = 70

R20 = 70

R21 = 70

R22 = 70

R23 = 70

R24 = 70

R25 = 70

R26 = 70

R27 = 70

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R91 = 70

R92 = 70

R93 = 70

R94 = 70

R95 = 70

R96 = 70

R97 = 70

R98 = 70

R99 = 70

R100 = 70

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Measurement Criteria:

The following slides reflect several CCT measurements for the PHX 1.5 RGBL Ellipsoidal Measurements taken:

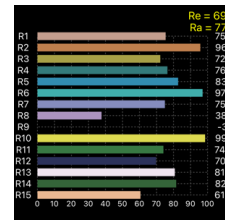
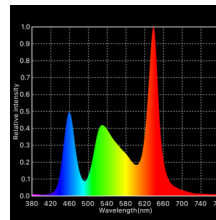
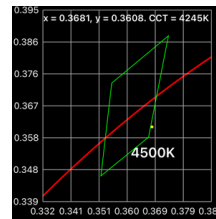
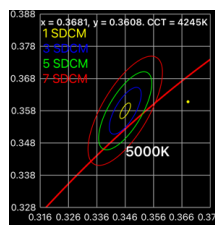
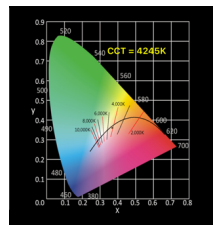
@ 10'-0" - Utilizing fixed beam 26" standard lens system
After 30 Minute warm up - 22°C Environment
DMX 8 Bit - 4 Channel mode
Smoothing Off

CCT Measurements

PHX1.5 RGBL - 4200K

Parameter	Value
CCT	4245 K
Duv	-0.0039
CRI(Ra)	77
Re(R1~R15)	69
CQS	89
TLCI(Qa)	71.4
GAI	101.2
TM-30-15 Rf	84
TM-30-15 Rg	111
Illuminance	3659 lux
Foot Candle	339.9 fc

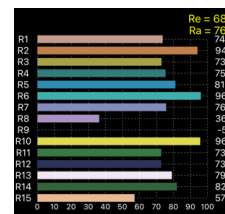
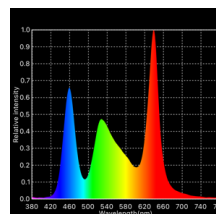
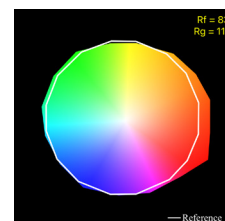
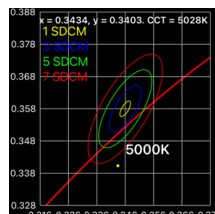
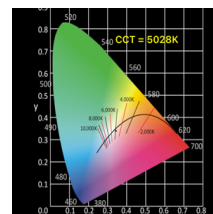
DMX Settings				
Colors	Red	Green	Blue	Lime
DMX % (0-100)	100	76	74	100
DMX Value (0-255)	255	192	187	255



PHX1.5 RGBL - 5000K

Parameter	Value
CCT	5028 K
Duv	-0.0051
CRI(Ra)	76
Re(R1~R15)	68
CQS	88
TLCI(Qa)	65.3
GAI	111.5
TM-30-15 Rf	83
TM-30-15 Rg	111
Illuminance	3887 lux
Foot Candle	361.1 fc

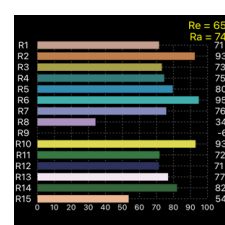
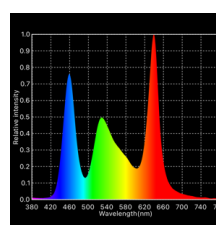
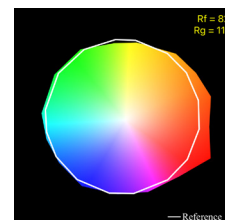
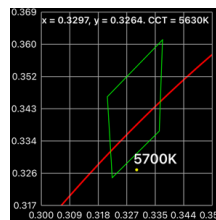
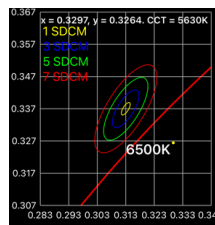
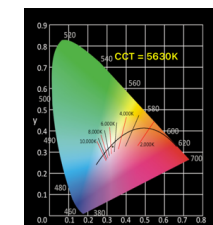
DMX Settings				
Colors	Red	Green	Blue	Lime
DMX % (0-100)	100	84	79	100
DMX Value (0-255)	255	212	199	255



PHX1.5 RGBL - 5600K

Parameter	Value
CCT	5630 K
Duv	-0.0065
CRI(Ra)	74
Re(R1~R15)	65
CQS	88
TLCI(Qa)	61.3
GAI	117.4
TM-30-15 Rf	82
TM-30-15 Rg	111
Illuminance	3985 lux
Foot Candle	370.2 fc

DMX Settings				
Colors	Red	Green	Blue	Lime
DMX % (0-100)	100	86	84	100
DMX Value (0-255)	255	219	212	255



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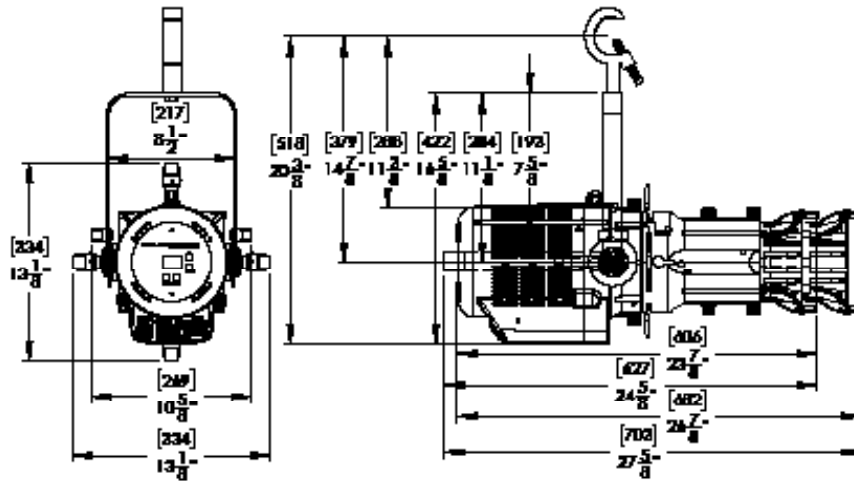


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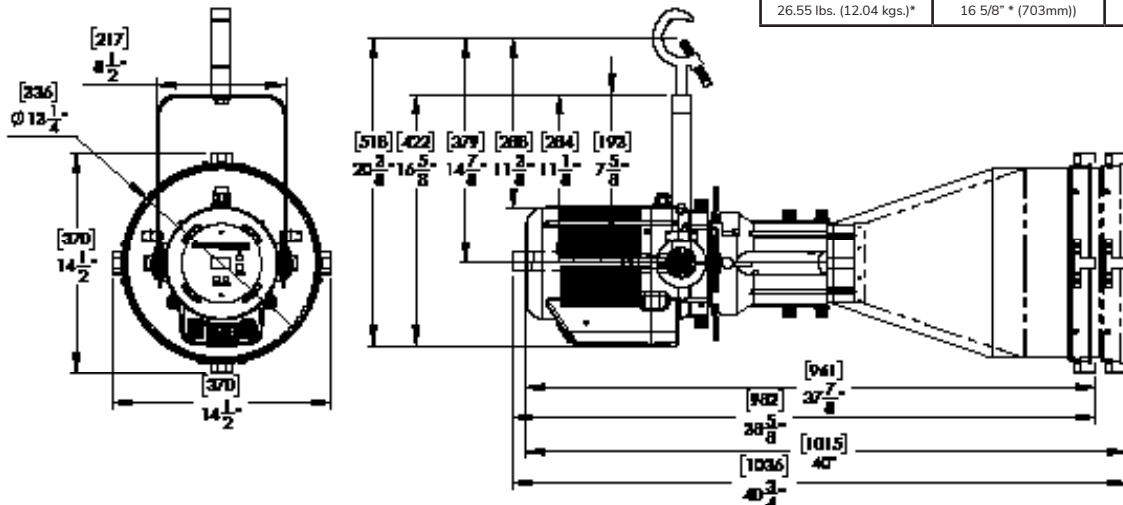
Weight	Height	Width
26.55 lbs. (12.04 kgs.)*	16 5/8" * (703mm)	27 5/8" * (422mm)

PHX1.5 Fixed Profile - Dimensions



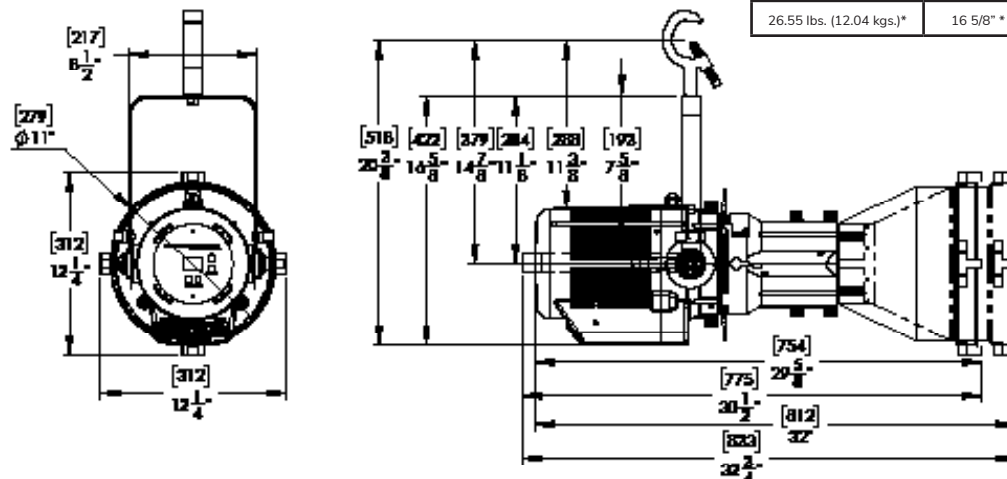
PHX1.5 Fixed 5 Degree Profile - Dimensions

Weight	Height	Width
26.55 lbs. (12.04 kgs.)*	16 5/8" * (703mm)	40 3/4" * (1036mm)



PHX1.5 Fixed 10 Degree Profile - Dimensions

Weight	Height	Width
26.55 lbs. (12.04 kgs.)*	16 5/8" * (703mm)	32 3/4" * (833mm)



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Specifications

LED Source

LED Engine	RGBL Engine
Max Power Consumption	150 Watts
Rated LED Life:	Arrays are rated for >50,000 to L70

Optical

Lens Options	5°, 10°, 19°, 26°, 36°, 50°
Aperture Size	5° - 13 1/4" 10° - 11" 19°, 26°, 36°, 50° - 4.73"

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
2700K	100%	51%	59%	100%
3200K	100%	62%	63%	100%
4200K	100%	76%	74%	100%
5600K	100%	84%	79%	100%



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:	1.25A at 120VAC / 0.65A at 230VAC
Power Factor:	≥ 0.95
Max Daisy Chain:	Up to 7 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	No Fan
BTUs/Hour	511.8 BTU per hour(*At Full Inten-sity)

Construction

Materials	Corrosion-resistant materials and hardware
Color Options	Black, White or Custom
Mounting	Yoke
IP Rating	IP20
Weight	25.5lbs (12.81kg)
Size	13.25in (335.5mm), 8.12in (207mm)

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

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Ordering Information

Model:	LED Array:	Lens *	Body Color: **
PHX1.5	RGBL - Color Mixing	5 - 5° Lens 10 - 10° Lens 19 - 19° Lens 26 - 26° Lens 36 - 36° Lens 50 - 50° Lens	B - Black W - White C - Custom

Included Items

Color Frame 6-1/4" x 6-1/4" (4.5 CFB)
36" Safety Chain (SC-36-BK)
5- 20A PowerCON to Edison (PCL-PBG-12-5)
PHX Soft Focus Lens (PHX-SFLGSA)

Available Accessories

Model:	Description:
510	Malleable Iron Clamp
515	Extruded Aluminum C-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

Pattern Holders

Model:	Description:
PHX-SFLGSA	PHX Soft Focus lens with A Size Pattern Holder
PHX-PHGSA	A Size Steel Pattern Holder (100mm OD / 75mm IA)
PHX-PHGSB	B Size Steel Pattern Holder (86mm OD / 64.5mm IA)
PHX-PHGSB-GLS	B Size Glass Pattern Holder (82mm OD / 64.5mm IA)
PHX-PHGS86-GLS	B Size Glass Pattern Holder (86mm OD / 64.5mm IA)
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

Consult the Altman
Factory for stock and
custom power and data
cables.



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303-500-7072 www.altmanlighting.com sales@altmanlighting.com