

Ascent Performance Fresnel



8 Inch RGBACL LED Fresnel with Motorized Zoom

The Ascent Performance Fresnel is a 380-watt luminaire that utilizes high-output LED emitters, designed specifically for studio and theatre applications. It delivers luminance comparable to traditional 1KW and 2KW tungsten lamps.

This Fresnel offers a wide array of control options, including 8 Bit, 16 Bit, RGB, Studio, Gel Mode, and Single Channel Mode, providing users with versatile control capabilities. It includes factory-calibrated popular gel colors and allows for the programming and storage of custom color presets, enabling quick access to pre-loaded white points and frequently used entertainment colors.

Equipped with a motorized zoom, the Performance Fresnel provides a beam spread range from 15° to 75°, with built-in stops at five different set points for precise beam spread repeatability. The zoom can be adjusted either from the back panel, with a lock-out option, or directly from the console.

Product Features

- RGBACL Full Spectrum LED Engine
- 8 Inch Fresnel Lens Aperture with Smooth Wash
- Motorized Zoom System with Built-In Stops
 - Very Narrow
 - Narrow Spot
 - Medium Spot
 - Wide Flood
 - Extra Wide
- Patented Zoom Lock
- Local or Remote Control motorized zoom
- 50,000 LED hours of life expectancy
- All metal construction
- Color Temperature Range: 1800K - 10000K
- Green Magenta Adjustment
- Current: 1.65A
- 25bit Dimming
- Wattage: 380W
- IP20 Rated
- Active Cooling (19dBA- 40dBA)
- Color Calibration and Management System
- PowerCON TRUE1 TOP In / Thru Connection



Bringing Imagination to Light™

Control Protocol: DMX/RDM, ArtNET, sACN
Built in Color Filters
Color Frame Slot with Locking Tab
Color frame, and safety cable included
21lbs (9.8kg). (Including safety cable and yoke)
cETLus listed and CE marked (Pending)
Five (5) year and one (1) day warranty

The Altman APF Family of Fresnels represents a dynamic new approach to Stage and Studio Lighting. With 6 channel color mixing, precise CCT tuning and motorized zoom optics, the APF is at home in any production and display environment. There's even an available motorized yoke!



Ascent Performance Fresnel

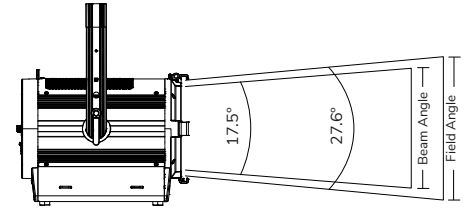


Photometrics

Zoom Set: VNSP

Output Setting	Zoom DMX Setting	Beam Angle	Field Angle	Candela	Beam Lumen's	Field Lumen's	Power Consumption	Efficacy (lpw)
Full On	0	17.5°	27.6°	84537	4750	7928	366.20	21.65
3200K*				66253	3695	6203	259.60	23.89
5600K*				73798	4115	6860	288.83	23.75

Throw Distance	10ft (3m)	15ft (4.6m)	20ft (6.1m)	30ft (9.1m)	40ft (12.1m)	50ft (15.2m)
Beam Diameter	3.5ft (1.0m)	4.7ft (1.4m)	6.1ft (1.8m)	9.2ft (2.8m)	12.3ft (3.7m)	15.3ft (4.6m)
Field Diameter	4.9ft (1.4m)	7.3ft (2.2m)	9.8ft (2.9m)	14.7ft (4.4m)	19.6ft (5.9m)	24.5ft (7.4m)
Illuminance(fc) at Full On	845	375	211	93	52	33
Illuminance(lux) at Full On	9099	4044	2274	1011	568	363

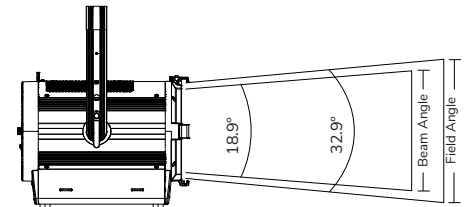


Note: To Calculate the Beam Diameter with the Fixture, Zoom set for VNSP, Multiply any distance by 0.305
 Note: To Calculate the Field Diameter with the Fixture, Zoom set for VNSP, Multiply any distance by 0.486

Zoom Set: NSP

Output Setting	Zoom DMX Setting	Beam Angle	Field Angle	Candela	Beam Lumen's	Field Lumen's	Power Consumption	Efficacy (lpw)
Full On	63	18.9°	32.9°	76235	4750	8703	367	23.71
3200K*				59277	3651	6768	257	26.28
5600K*				67251	4147	7687	288	26.63

Throw Distance	10ft (3m)	15ft (4.6m)	20ft (6.1m)	30ft (9.1m)	40ft (12.1m)	50ft (15.2m)
Beam Diameter	3.3ft (1.0m)	4.9ft (1.4m)	6.6ft (2.0m)	9.9ft (3.0m)	13.3ft (4.0m)	16.6ft (5.0m)
Field Diameter	5.9ft (1.7m)	8.8ft (2.6m)	11.8ft (3.5m)	17.7ft (5.3m)	23.6ft (7.1m)	29.5ft (8.9m)
Illuminance(fc) at Full On	762	338	190	84	47	30
Illuminance(lux) at Full On	8205	3647	2051	911	512	328

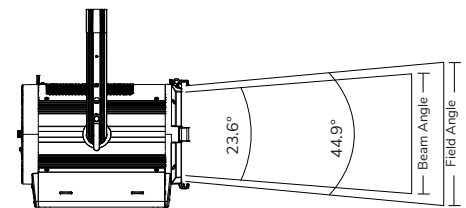


Note: To Calculate the Field Diameter with the Fixture, Zoom set for NSP, Multiply any distance by 0.33
 Note: To Calculate the Beam Diameter with the Fixture, Zoom set for NSP, Multiply any distance by 0.59

Zoom Set: MFL

Output Setting	Zoom DMX Setting	Beam Angle	Field Angle	Candela	Beam Lumen's	Field Lumen's	Power Consumption	Efficacy (lpw)
Full On	127	23.6°	44.9°	49647	4828	9591	367	26.14
3200K*				37905	3691	7220	253	28.54
5600K*				44033	4284	8375	287	29.17

Throw Distance	10ft (3m)	15ft (4.6m)	20ft (6.1m)	30ft (9.1m)	40ft(12.1m)	50ft (15.2m)
Beam Diameter	4.1ft (1.2m)	6.2ft (1.8m)	8.3ft (2.5m)	12.5ft (3.8m)	16.1ft (4.9m)	20.8ft (6.3m)
Field Diameter	8.2ft (2.4m)	12.4ft (3.7m)	16.5ft (5.0m)	24.7ft (7.5m)	33.0ft (10m)	41.3ft (12m)
Illuminance(fc) at Full On	496	220	124	55	30	19
Illuminance(lux) at Full On	5343	2375	1335	593	333	213



Note: To Calculate the Beam Diameter with the Fixture, Zoom set for MFL, Multiply any distance by 0.415
 Note: To Calculate the Field Diameter with the Fixture, Zoom set for MFL, Multiply any distance by 0.823



Ascent Performance Fresnel

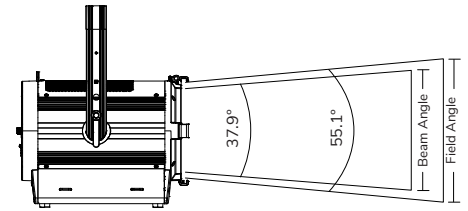


Photometrics

Zoom Set: WFL

Output Setting	Zoom DMX Setting	Beam Angle	Field Angle	Candela	Beam Lumen's	Field Lumen's	Power Consumption	Efficacy (lpw)
Full On	191	37.9°	55.1°	23806	6031	9513	367	25.91
3200K*				18183	4589	7129	252	28.24
5600K*				21110	5329	8283	287	28.86

Throw Distance	10ft (3m)	15ft (4.6m)	20ft (6.1m)	30ft (9.1m)	40ft (12.1m)	50ft (15.2m)
Beam Diameter	6.8ft (2.0m)	10.3ft (3.1m)	13.7ft (4.1m)	20.6ft (6.2m)	27.4ft (8.3m)	34.3ft (10m)
Field Diameter	10.4ft (3.1m)	15.6ft (4.7m)	20.8ft (6.3m)	31.3ft (9.5m)	41.7ft (12m)	52.1ft (15m)
Illuminance(fc) at Full On	238	105	59	26	14	9
Illuminance(lux) at Full On	2562	1138	640	284	160	102

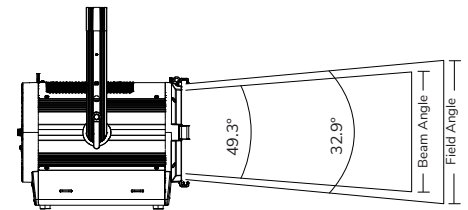


Note: To Calculate the Beam Diameter with the Fixture, Zoom set for WFL, Multiply any distance by 0.685
 Note: To Calculate the Field Diameter with the Fixture, Zoom set for WFL, Multiply any distance by 1.04

Zoom Set: XWFL

Output Setting	Zoom DMX Setting	Beam Angle	Field Angle	Candela	Beam Lumen's	Field Lumen's	Power Consumption	Efficacy (lpw)
Full On	255	49.3°	74.7°	14025	6444	9411	367	25.64
3200K*				10913	4866	7164	255	28.03
5600K*				12458	5571	8214	287	28.54

Throw Distance	10ft (3m)	15ft (4.6m)	20ft (6.1m)	30ft (9.1m)	40ft (12.1m)	50ft (15.2m)
Beam Diameter	9.1ft (2.7m)	13.7ft (4.1m)	18.3ft (5.5m)	27.5ft (8.3m)	36.7ft (11m)	45.8ft (14m)
Field Diameter	15.2ft (4.6m)	22.9ft (6.9m)	30.5ft (9.2m)	45.7ft (14m)	61.0ft (18m)	76.3ft (23m)
Illuminance(fc) at Full On	140	62	35	15	8.7	5.5
Illuminance(lux) at Full On	1509	670	377	167	94	60



Note: To Calculate the Field Diameter with the Fixture, Zoom set for XWFL, Multiply any distance by 0.915

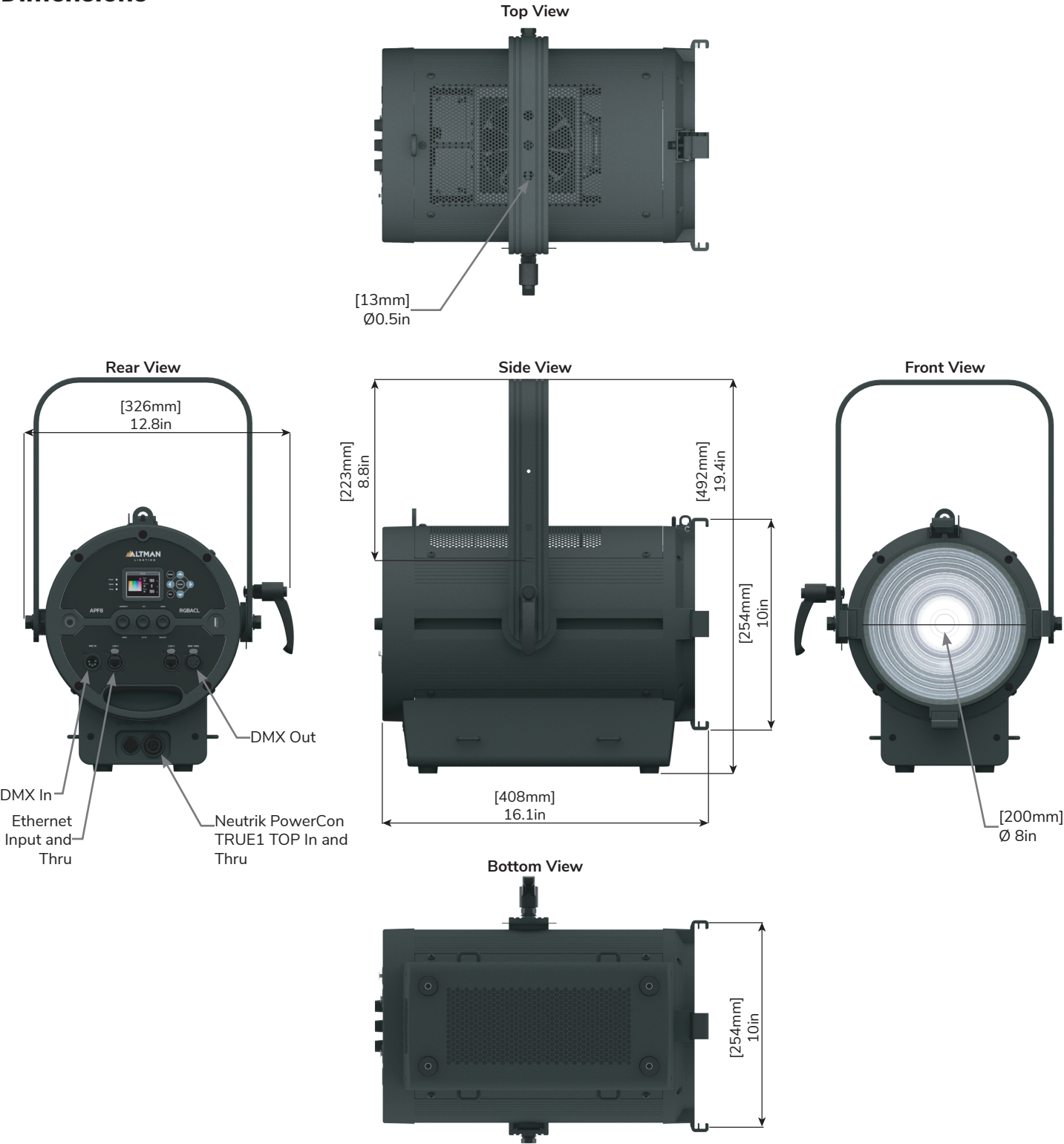
Note: To Calculate the Beam Diameter with the Fixture, Zoom set for XWFL, Multiply any distance by 1.52



Ascent Performance Fresnel



Dimensions



Ascent Performance Fresnel



Specifications

LED Source

LED	RGBACL six colors
Max Power Consumption	380W Maximum
Rated LED Life:	Arrays are rated for >50,000 to L70

Color

Color Used	RGBACL
Color Temperature Range	1800K to 10000K
Green Magenta Adjustment	Continuously adjustable (+/Green)
Dimming Precision	25bit
TLCI	>97
Color Rendition	96-98 for blackbody lines

Optical

Zoom Range	Focusable Motorized
Aperture Size	8inch Fresnel 200mm, PCARC Lens
Beam Angle	15°-75°

Control and Programming

Input Method	DMX/RDM, ArtNET , sACN
Protocols	DMX512/RDM
Modes	<ul style="list-style-type: none">• 8bit/16bit MODE• RGB Mode• HSIC Mode• Studio Mode• Studio Color Mode• GEL MODE• XY Mode• Single Channel Tungsten• Single Channel Daylight
RDM Configuration	Yes
Local Control	On board controller
Software Upgrade	Fixture status, firmware upgrade through USB
User Interface	Yes

Ordering Information

Model:	LED:	Body Color:
APF8 - Altman Performance 8inch Fresnel	RGBACL - Coloring Changing	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 .

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

Included Items

Model:	Description:
APF8-RGBACL-* - Altman Performance 8inch Fresnel	Color Frame (8-CF), 36-inch Black Safety Cable (SC-36-BK), 5-foot 20A Cable, True1 with Edison Connector (SPK-PBG-12-5)

Note: If a different power cable is needed, please select and specify it when placing your order.

Electrical

Voltage Range	100-240VAC, 50/60Hz
Input Connection	Neutrik TRUE1 TOP In and Thru
Wattage	380W
Current Draw	3.16A @ 120VAC; 1.65A @ 230VAC
Number Fixtures per Circuits	5 (20A Power Thru Connector) 120V 9 (20A Power Thru Connector) 230V

Thermal

Ambient Operating Temp	-20°-45° C (-4°-113° F)
Fan	Super silent fan cooling (4 modes with silent, auto, brightness, off)
dB	33dBA @1meter.

Construction

Materials	Corrosion-resistant materials and hardware
Color Options	Black / White / Custom
Mounting	Yoke with 3 x Ø 0.5in Holrd
IP Rating	IP20
Weight:	21.6lbs (9.8kg)

Warranty

Fixture	5 Years and 1 Day.
---------	--------------------

Compliance

Compliance Marks	cETLus listed CE marked (Pending)
Country of Origin	Assembled in the USA

Ascent Performance Fresnel



Available Accessories

Model:	Description:
510	Malleable Iron Clamp
515	Extruded Aluminum C-Clamp
8-SN	Snoot 10"x10"
8-BD-4-*	8" 4 Leaf Barn door
SC-36-BK	36-Inch Black Safety Cable with Spring Clip
SS-SC-40-BK	40-Inch Stainless Steel Safety Cable with Spring Clip
61-DMXCAT	DMXCAT DMX / RDM Setup Tool
DMX-5-TERM	XLR DMX Terminator
APF-PT	Pan / Tilt Kit (TBD)

Power Input Cables

Model:	Connector Type:	Wire Size:	Length:
SPK - True1	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 - 12 Gauge	5 - 5ft 10 - 10ft 25 - 25ft

Note: When ordering the True1Cable simply select an option from each column and that will produce your ordering part number.

Power Jumper Cables

Model:	Wire Size:	Length:
SPKJ - True1 Feed Thru Jumper Cable	12 -12 Gauge	5 - 5ft 10 - 10ft 20 - 20ft 25 - 25ft

Note: When ordering the True1 Feed Thru Jumper 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.



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