



Developed for demanding environments in indoor or outdoor events, **Astra 180HDL** offers a range of IP65 LED fixtures combining power, optical precision and long-lasting reliability.

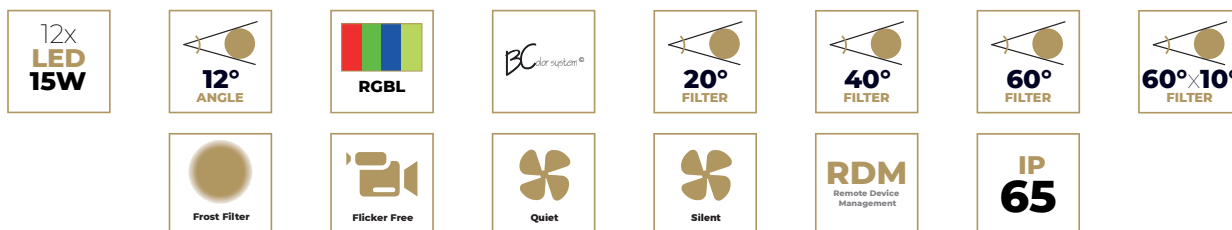
Thanks to its 12x15W RGB + Lime LEDs and 12° fixed angle, **Astra 180HDL** provides rich and subtle colour mixing, delivering both deep saturated colours and accurately calibrated whites, with smooth fades and excellent uniformity.

Astra 180HDL is ideal for lighting live shows, scenic elements and architectural façades.

Its die-cast aluminium housing ensures optimal thermal management and robustness, perfectly suited for intensive professional use.

Designed to adapt to any configuration, **Astra 180HDL** offers a selection of clip-on optical filters in 20°, 40°, 60°, 60° x 10° and frost (100°), allowing the beam angle to be adjusted from wide wash applications to more directional uses.

In terms of control, **Astra 180HDL** provides advanced flexibility: the fixtures can be operated via a Bluetooth app, enabling mesh networking, remote configuration and fast fixture setup. For traditional installations, wired DMX control ensures seamless integration with any lighting console, with remote adjustment of modes and addressing.



TECHNICAL DATASHEET

astra^{180HDL}

Source

Engine	RGB + Lime
LED Watts	12x 15W
Engine CCT	9500K (Full RGBL)
Engine Life (L70)	> 20000 H
Refresh Rate	900Hz to 25 kHz
Dimming	Electronic - 16 bits
Dimming Curves	Linear, Square, Inv Square, S-curve
Dimming Modes	Dim0 (0s), Dim1 (0.25s), Dim2 (0.5s), Dim3 (0.75s), Dim4 (1s)
Strobe Speed	1 - 25 Hz
Strobe Modes	Standard, Pulse, Random

Electrical

Max Consumption	180W
Standby Power Consumption	5W
Voltage Range	110V/240V - 50Hz/60Hz
Power Factor	0.99@110V - 0.98@240V
Current (Max)	1.59A@110V - 0.72A@240V
Fuse	T3A@250V
Connector	PowerCON True1 (In/Out)
Max Fixtures per Circuits (16A)	9@110V - 21@240V

Compliance & Protection

IP Rating	IP 65
Certification	CE, Rohs, RED

Optical

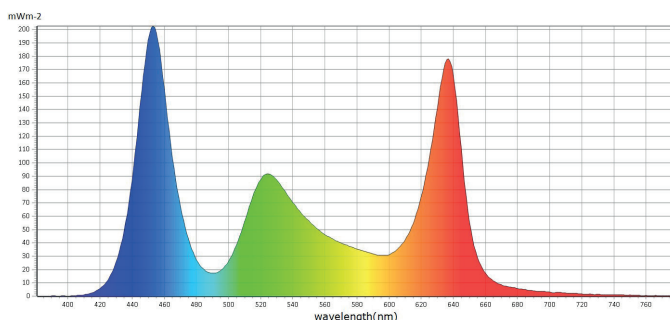
Lens Diameter	30 mm (Individual) 141.4 mm (Total)
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Colour System

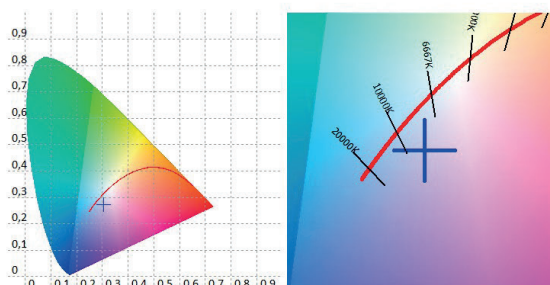
Colour System	RGBL - BC Color System
Control	8 bits / 16 bits

Performances

Fixture Luminous Flux (Max)	6334 lm
Fixture Illuminance	Narrow: 4976 lux@5m 12° Medium: 2061 lux@5m 20° Wide: 340 lux@5m 60°
Fixture CCT Output	1800 - 10000 K
CRI	@6500k: 86 @3200k: 86.9
Tm30	@6500k: 84.31 @3200k: 85.78
TLCI	@6500k: 83.77 @3200k: 76.19
CQS	@6500k: 86.44 @3200k: 86.91

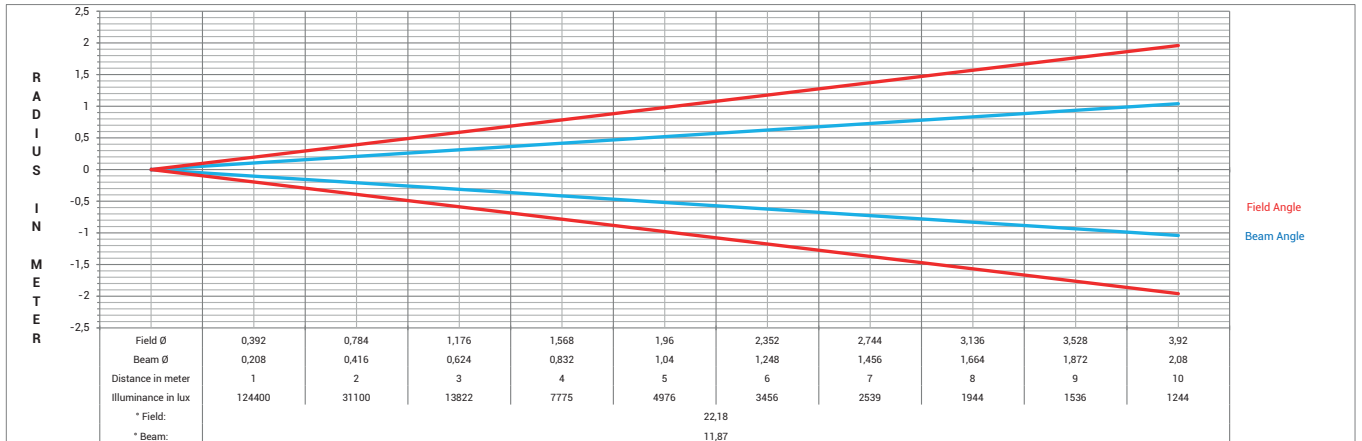


■ CIE1931

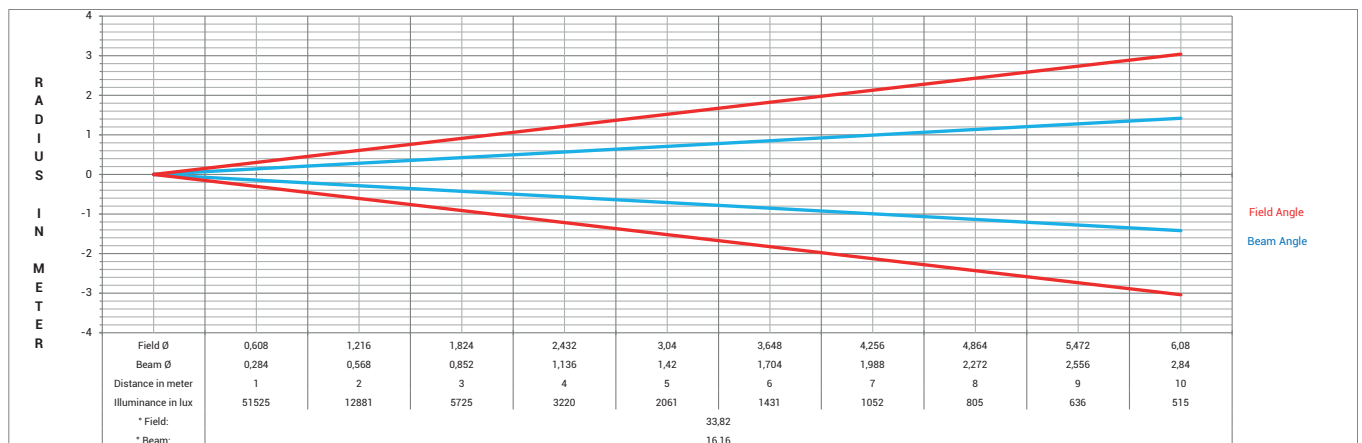


Photometry

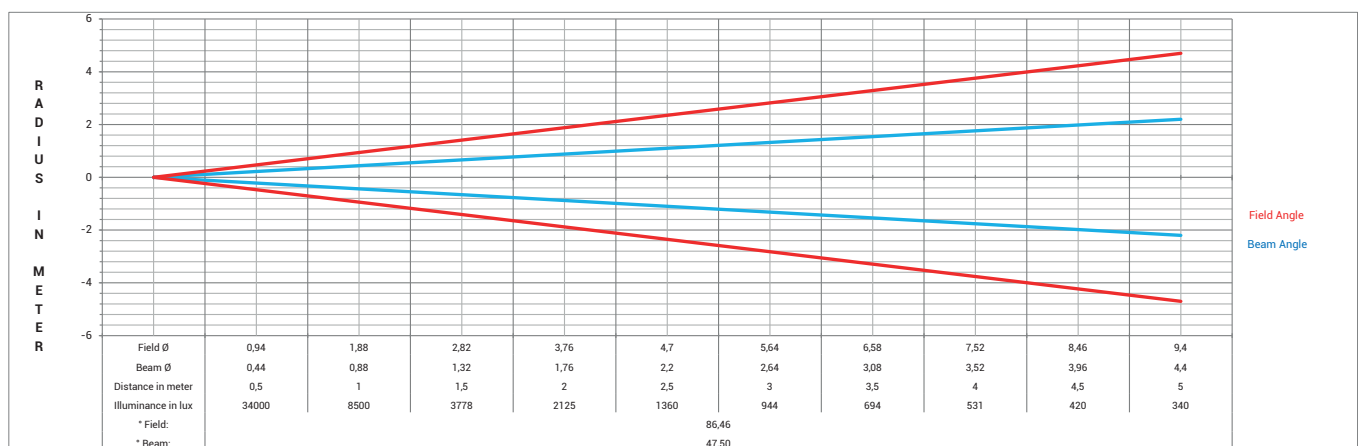
Narrow Angle (12°)



Medium Angle (20°)



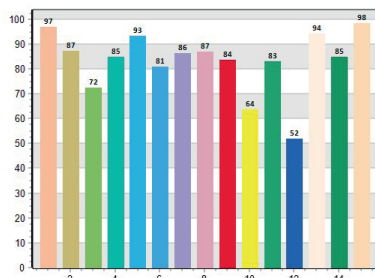
Wide Angle (60°)



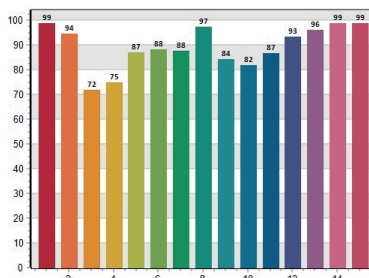
Colorimetry

@6500°K (Calibrated)

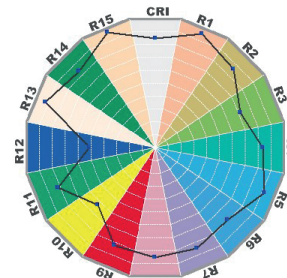
■ CRI: 86,04



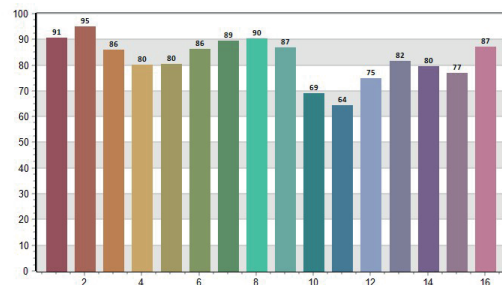
■ CQS: 86,44



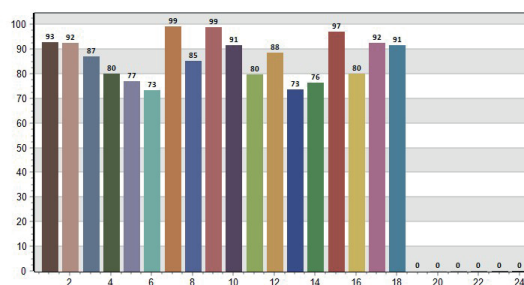
■ CRI-2



■ TM30: 84,31

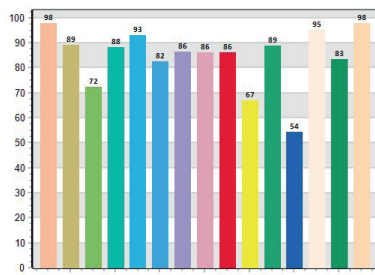


■ TLCI: 83,77

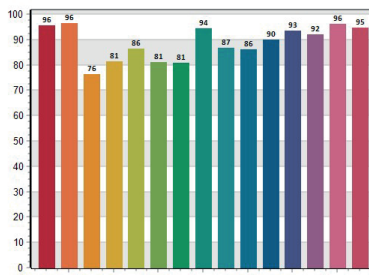


@3200°K (Calibrated)

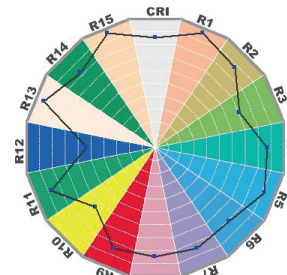
■ CRI: 86,88



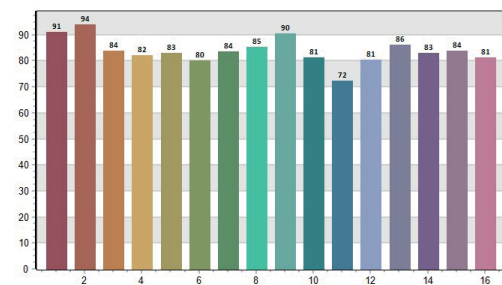
■ CQS: 86,91



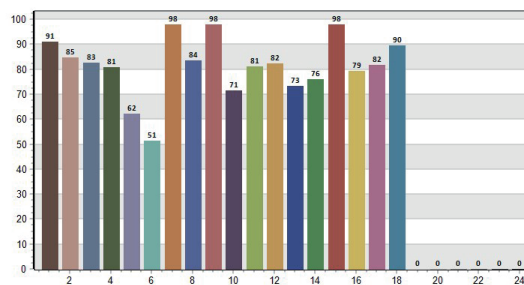
■ CRI-2



■ TM30: 85,78



■ TLCI: 76,19



[Find the complete photometry here :](#)



TECHNICAL DATASHEET

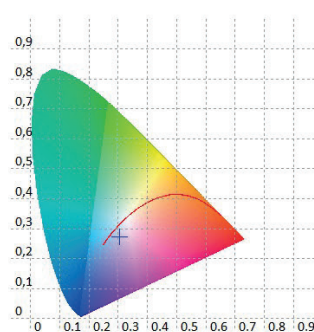
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Color & Macros

Red	x: 0.6973 / y: 0.3016
Green	x: 0.1704 / y: 0.7260
Blue	x: 0.1519 / y: 0.0284
Lime	x: 0.4267 / y: 0.5423
Full RGBL	x: 0.3048 / y: 0.2731
8000 K (<i>calibrated macro</i>)	CCT: 7246 K x: 0.3021 / y: 0.3182
6500K (<i>calibrated macro</i>)	CCT: 6444 K x: 0.3138 / y: 0.3288
5600 K (<i>calibrated macro</i>)	CCT: 5606 K x: 0.3300 / y: 0.3470
3200 K (<i>calibrated macro</i>)	CCT: 3253 K x: 0.4243 / y: 0.4078

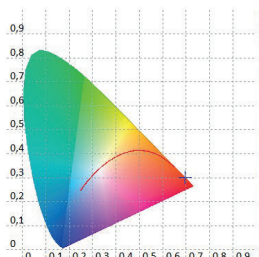
RGBL@ 100%

■ CIE1931



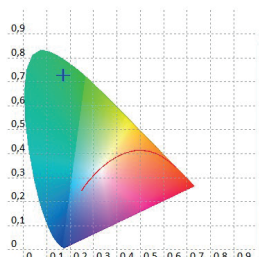
Red @ 100%

■ CIE1931



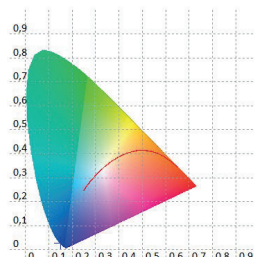
Green @ 100%

■ CIE1931



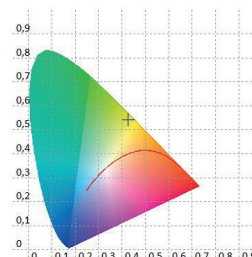
Blue @ 100%

■ CIE1931



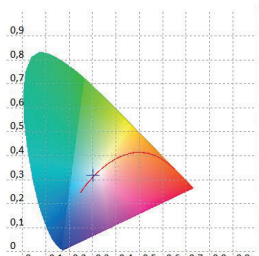
Lime @ 100%

■ CIE1931



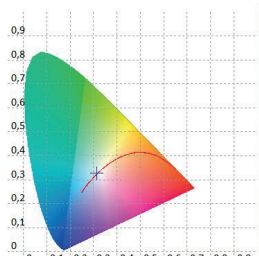
8000 K (*calibrated*)

■ CIE1931



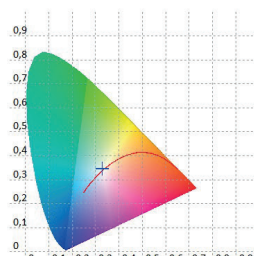
6500 K (*calibrated*)

■ CIE1931



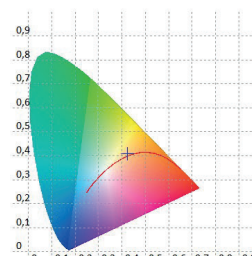
5600 K (*calibrated*)

■ CIE1931



3200 K (*calibrated*)

■ CIE1931



Control

DMX Control	DMX (USITT DMX-512-A) RDM (ANSI/ESTA E1.20)
DMX Modes	10 User Modes
Channel Count	Dimmer - 1 Dimmer + CCT - 3 RGB - 8bit - 3 RGBL - 8bit - 4 RGBL Extended - 8bit - 14 RGBL Extended - 16bit - 18 CYM - 8bit - 13 CYM - 16bit - 16 RGBW Extended - 8bit - 14 RGBW Extended - 16bit - 18
Local Control	OLED panel Navigation buttons
Wireless Control	Bluetooth Mesh by Vision Control App
RDM Functions	Yes

Connectors

Power	PowerCoN True 1 (In/Out)
DMX	XLR 5 Pin (In/Out)

Vision Control™ App

[Vision Control™ App
download link](#)



Noise Level

Fan Mode Auto	43dB @ 1m
Fan Mode High	50dB @ 1m
Fan Mode Quiet	37dB @ 1m
Fan Mode Silent	N/A (Fan OFF)

Thermal

Cooling System	Forced & Passive
Cooling Modes	Auto - High - Quiet - Silent
Max Ambient Temperature (Ta Max)	45°C
Min Ambient Temperature (Ta Min)	-10°C
Max Surface Temperature, steady state, at Ta 40°	74°C
Total Heat Dissipation (Calculated +/- 10%)	614.2 BTU/h - 180W@240V
Heat Dissipation (standby) (Calculated +/- 10%)	17.1 BTU/h - 5W@240V

TECHNICAL DATASHEET

astra 180HDL

Material

Housing Die Cast Aluminium

Physical

Fixture

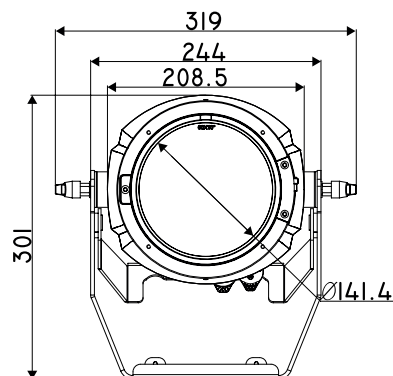
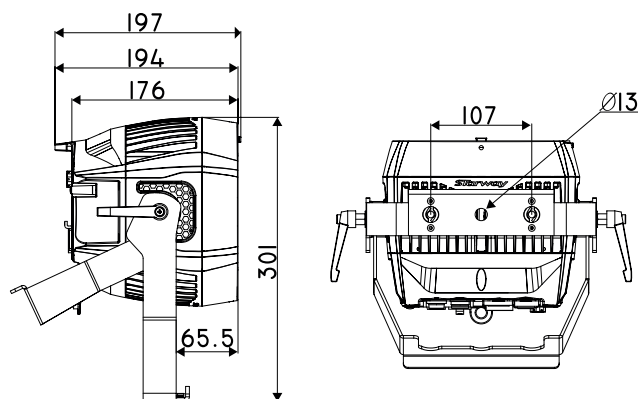
LxWxH 319mm x 197mm x 301mm

Weight 5.5 Kg

Carton Box

LxWxH 350mm x 350mm x 405mm

Weight 7.9 Kg



Included

Removable Connector Protection Cap 1

Powercord 1.80m

Omega Bracket Yes

Quick Start Yes

Optional Accessories

Filter Set
(Ref: 225521)

Included :
20° - 40° - 60° - 60°x10°
Frost (100°)

Barndoor
(Ref: 225522)

Download

[Manual](#)



[DMX Chart](#)



[All Downloads](#)



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