EagleStrike represents the evolution of Ayrton's precision lighting philosophy – a fixture purpose-built for true Long Throw use, engineered to deliver clean, controlled, and intensely bright beams over long distances. Every component, from optical elements to control options, has been designed with one clear objective: flexibility.

Its optical system prioritises beam integrity and efficiency at extremely narrow zoom angles, ensuring sharp edges and consistent brightness across any distance. Mechanical assemblies have been refined to balance precision and durability, while the optical coatings and materials maintain stability under extreme heat and continuous operation. Together, these features make EagleStrike not just a high-output light source, but a specialised performance tool – ideal for theatres, concerts, and broadcast applications where accurate, flattering illumination of people is critical.

★ KEY FEATURES

Ultra-Narrow Zoom Range

EagleStrike delivers an exceptionally tight beam, with a zoom range that closes down to 2.9 °. The optical design follows the same high-efficiency principles first developed for Stradale, with every lens and mechanism tuned for minimal light loss. Performance at narrow angles takes priority, providing the intensity and precision required for large venues.

Beam Reducers and Optical Efficiency

For even narrower projection, EagleStrike includes two beam reducers on the first gobo wheel, positioned perfectly at the focal plane. This ensures no brightness loss when engaged and far greater efficiency than an iris. Because the fixture is designed primarily for beam work, the reducers take precedence over framing alignment to maximise lux.

Advanced Materials and Thermal Control

EagleStrike's gobo wheels combine glass and metal to balance fine detail with durability under heat. Metal reducers and gobos resist warping and colour shift, while glass designs are used where intricate patterns are required. The framing system also benefits from reflective, heat-resistant coatings that maintain performance and protect against temperature-related degradation.

Tracking Software Modes

Dedicated internal modes optimise movement and responsiveness for tracking performers. The 360SC mode limits pan rotation to a 360 ° range, eliminating flips and ensuring smooth transitions. FS Mode increases motor responsiveness, allowing the fixture to follow fast or unpredictable motion with remarkable fluidity and control.

Camera and Colour Integration

EagleStrike supports optional camera housings for integration with automated tracking systems, while maintaining full IP65 protection. Its 6500 K native temperature provides a neutral white base, adjustable down to 2900 K via smooth CTO control. Additional filters offer precise colour correction for glass gobos, camera work, and high-CRI applications, ensuring accurate skin tones and natural colour reproduction.

v3.0 03/12/2025

TECHNICAL SPECIFICATIONS

SOURCE

Engine	LED Mono Block, Sealed, White
LED Watts	1200 W (total fixture use, see Electrical section)
LED Engine Life (L70)	Up to 40,000 hours
LED Refresh Rate	1.2 kHz, 2.4 kHz, 16 kHz, 25 kHz
Dimming	Electronic
Dimming Curves	Square & Linear
Dimming Control Options	Auto on/off dimmer smoothing when Snap effects
Strobe Speed	1-25 Hz Per Second
Strobe Modes	Strobe Effects / Pulse Effects / Random Effects

ELECTRICAL

Max Power Consumption	1450 W
Standby Consumption	131 W @ 220V
Voltage Range	120-240 V, 50-60 Hz
Current (Max)	5.84 A @ 230 V / 11.3 A @ 120 V
Inrush (Half Cycle)	30 A @ 230 V
Total Fixtures per Circuit	5.84A @ 230/240 V / 11.3 A @ 120 V
Connector	PowerCON True1 TOP
Power Supply Unit	Active PFC
Contains Battery	N/A

TYPICAL POWER AND CURRENT

120V , 60Hz	11.3 A, 1330 W, PF 0.989
208V, 60Hz	6.43 A, 1300 W, PF 0.972
230V, 50Hz	5.84 A, 1295 W, PF 0.965
240V, 50Hz	5.56 A, 1293 W, PF 0.963

OPTICAL PERFORMANCE

Lens Size	270 mm (10.63 in)
Zoom Range	2.9 ° to 43 °
Zoom Ratio	15:1
Gate Size	23 mm

MOVEMENT

Pan Range		Infinite
Pan Speed (End to End or range)	**180 °**	55.8rpm
	360 °	100.6 rpm
	EtoE	134.6 rpm
Tilt Range		270 °
Tilt Speed (End to End or range)	**180 °**	57.1 rpm
	360 °	104.6 rpm
	EtoE	81.8 rpm
Resolution		8- or 16-bit
Calibration Time		74 sec
Position Correction System		Yes / Automatic repositioning
Follow Spot Modes		Manual & Tracking system

COLOUR SYSTEM

Colour System(s)	CMY, CTO and 11 Colour Filters
Control	CMY 16-bit & 8-bit
CTO	2900 K - 6500 K
Colour Wheel	Two Static Wheels. 11 colour filters.
Colour Wheel Effects	Continuous Rotation

GOBOS

Indexing Wheel	2
Indexing Gobos (Wheel 1)	5 glass gobo & 2 beam reducer
Gobo Diameter	30 mm
Image Diameter	19 mm
Gobo Thickness	See p.7
Indexing Gobos (Wheel 2)	5 metal & 2 multi-colour gobos
Gobo Diameter	30 mm
Image Diameter	19 mm
Gobo Thickness	See p.7
Animation Wheel	Yes
Animation Details	Bi-Directional with continuous rotation

TECHNICAL SPECIFICATIONS

PERFORMANCE

LED engine output (Sphere)		82,000 lm
Fixture Output (Sphere)		54,000 lm (Fan Mode Auto)
		55,000 lm (Fan Mode Stage)
		36,000 lm (Fan Mode Silence)
		30,000 lm (Fan Mode Super Silence)
Fixture Output (Goniometer)		48,000 lm (Fan Mode Auto after derating)
Field Lumens (Goniometer)	**Narrow**	20,500 lm
	Middle	49,000 lm
	Wide	43,500 lm
Lumen Per Watt (LPW) Max fixture output / 230 V Typical power		37.8
CCT		6500 K
Δ uv		TBC
CRI		70±2
Tm30		Rf: 70.9 Rg: 94
TLCI		47
CQS		69

IMAGING

Framing	4 Blade – 4 Plain Full Swipe
Framing Rotation	+/- 90°
Iris	15 Blade - 15% to 100% (Open)
Frost	2 Frost filters: Light 1 ° & Heavy 5 °
Effects	▪ Focusable graphic animation effect-wheel with continuous rotation in both directions ▪ 2xPrisms: One 5-facet circular & One 4-facet linear indexable, rotating and combinable

CONNECTORS

Power	In PowerCON True1 TOP
DMX	IP65 In/Thru 5 Pin XLR
Network	IP65 In/Thru RJ45 + one for Camera
Wireless	DMX Only

CONTROL

DMX Control	DMX (USITT DMX-512A) RDM (ANSI/ESTA E1.20)
Transceiver/Receiver	RS-485 with Opto Isolation
DMX Modes	2 User Modes (Extend, Stand)
Channel Count	Extended - 66
DMX Chart	Scan the QR code on page 5
Network Protocols	ArtNet & sACN
Local Control	Colour LCD Panel 5 Menu Buttons NFC
Stand Alone Mode	Leader / Follower, 250 presets
RDM Functions	Yes
Wireless DMX	CRMX TiMo RDM receiver
E-Sim Ready	Optional
USB Port	No

THERMAL

Max Surface Temperature, steady state, at Ta 40°	80 °C (176 °F)
Max Ambient Temperature (Ta Max)	45 °C (113 °F)
Min Ambient Temperature (Ta Min)	-20 °C (-4 °F)
Total Heat Dissipation (Calculated +/- 10%)	4418 BTU/h
Minimum distance to illuminated surface	6 m (19.69 ft)
Minimum distance to combustible surface	0.1 m (0.33 ft)
Thermal Protection system	Yes
Cooling modes	See Acoustics
Cooling System	▪ Advanced Liquid Cooling. ▪ IP68 Self-adjusting variable speed fans for quiet operation.

TECHNICAL SPECIFICATIONS

ACOUSTICS STATIC

Fan Mode	dBA[1]	NC[2]
Auto	47 dBA	32
Stage	50 dBA	42
Silence/Studio	39 dBA	28
Super Silence	36 dBA	20

DYNAMIC

Mode	dBA[1]	NC[2]
Auto	TBC	35
Stage	TBC	42
Silence/Studio	TBC	31
Super Silence	TBC	33

1. Measured @ 1m Static, 31dBA ambient
2. Noise Criterion
https://www.engineeringtoolbox.com/nc-noise-criterion-d_517.html

ENVIRONMENTAL

IP Rating	IP65 / IP66
Salt Spray Testing	Pending
Estimated embodied carbon including: ▪ **A1 - Raw materials of fixture and packaging** ▪ **A3 - Product manufacturing**	TBC
Recycling options	Packaging widely recyclable. Cardboard is made of recycled pulp[3].
SIP Optional	Yes
Our Environmental Commitment	

3. Up to 92%

WARRANTY

Fixture	2 years
LED Engine	5 years

From date of invoice

INSTALLATION

Orientation	Any
Mounting attachments	▪ Fastening bracket system: two Omega ¼ turn brackets designed for use with standard clamps. ▪ Mounting points: 8 ¼ turn locking fittings allowing installation of Omega brackets on luminaire. ▪ Safety cable attachment point.
Installation version	Yes IP66

CONSTRUCTION

Colour	Carbon Black Standard Custom colours on request
Materials	▪ Moving-head skeleton made of aluminium ▪ Head in die-cast aluminium ▪ Base in die-cast composite alloy ▪ Heatsinks in aluminium and copper ▪ Arms in self-extinguishing fire retardant ABS PC (V0 class) ▪ Four-side handles for transportation ▪ Four heavy-duty feet for better stability

INCLUDED ITEMS

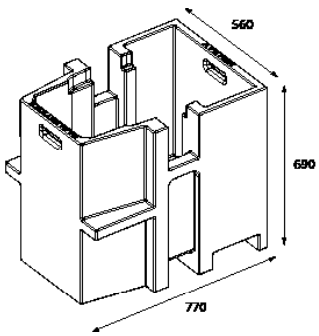
Manual	1
OMEGA brackets with quarter-turn locks	2
Cables	▪ IP65: 1 cable PowerCON True1 TOP to bare end, 1.5m ▪ IP66: DMX IN / OUT tails to bare end for IP66 DMX connection • Ethernet IN / OUT tails to bare end for IP66 ArtNet™ connection • Power tail to bare end for IP66 power connection

OPTIONAL ITEM

Camera enclosure	Compatible third-party cameras: ▪ EVERET EVZ230 ▪ BZB Gear BG-BSHAN Requires customer intergration for setup and operation.

TECHNICAL SPECIFICATIONS

PHYSICAL

Fixture	
Length	450 mm (17.72 in)
Height	898 mm (35.35 in)
Depth	413 mm (16.25 in)
Weight	54.7 kg (119.04 lb)
IP65	
Length	450 mm (17.72 in)
Height	898 mm (35.35 in)
Depth	413 mm (16.25 in)
Weight	54.7 kg (119.04 lb)
IP66	
Length	450 mm (17.72 in)
Height	898 mm (35.35 in)
Depth	413 mm (16.25 in)
Weight	54.7 kg (119.04 lb)
Shipping Dimensions	
Length	778 mm (30.63 in)
Height	843 mm (33.19 in)
Depth	568 mm (22.36 in)
Weight	72.7 kg (160.28 lb)
In SIP Dimensions	
Length	770 mm (30.31 in)
Height	690 mm (27.16 in)
Depth	560 mm (22.04 in)
Weight (excl fixture)	12 kg (26.45 lb)
SIP Drawing	

The camera enclosure may stay mounted on the fixture when the fixture is stored in the SIP.

SUPPORTING DOCUMENTS

- Manual
- GDTF Profile
- GMA Profile
- IES File
- DMX Chart
- Software
- Warranty

COMPLIANCE

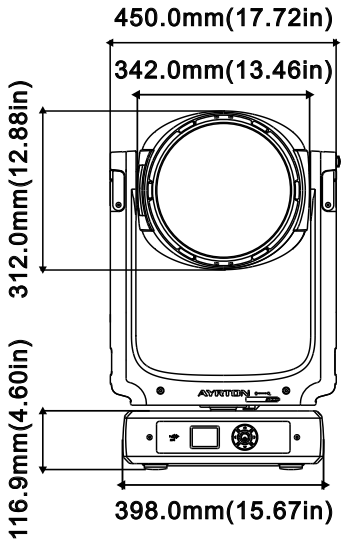
EU (EMC & LVD)	▪ EMC Directive 2014/30/EU ▪ LVD Directive 2014/35/EU
US (Safety & EMC)	▪ UL 1573 ▪ FCC Part 15, Subpart B: 2023
Substance Regulations	▪ RoHS ▪ REACH ▪ CP65
Declarations	Scan the QR code above

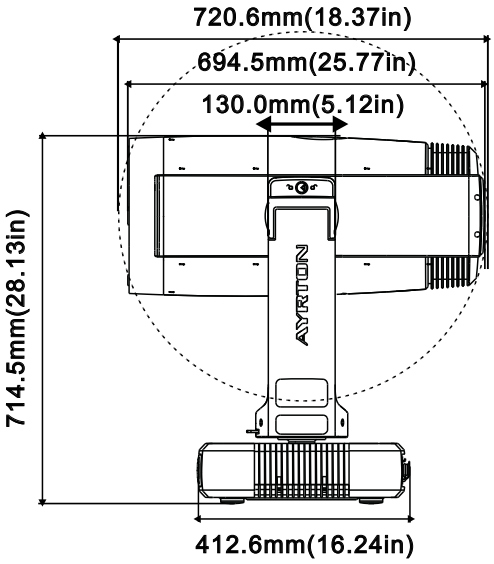
ORDERING DETAILS

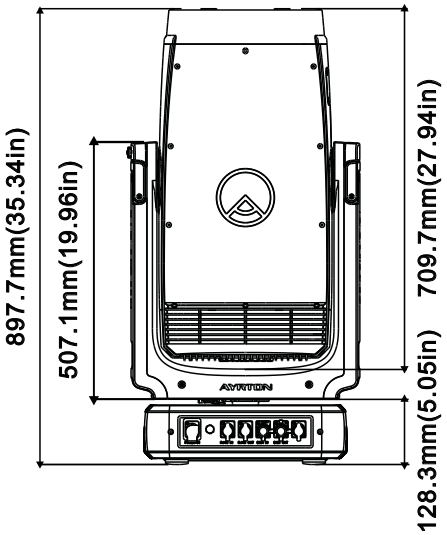
EagleStrike	012840

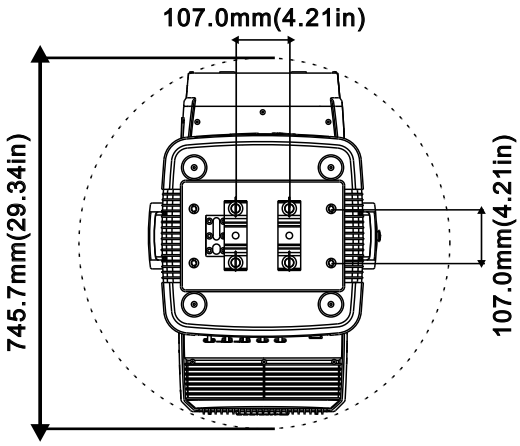
ACCESSORIES

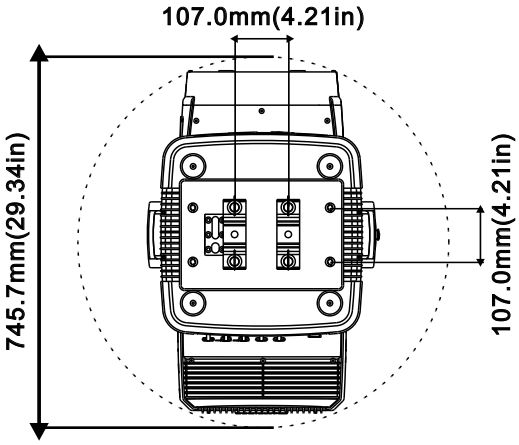
IP Test Kit	048250
Lynx Control	045130
Omega Bracket	GP50501990353
Camera Enclosure	042840

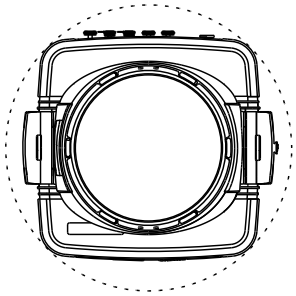

450.0mm(17.72in)
342.0mm(13.46in)
312.0mm(12.88in)
116.9mm(4.60in)
398.0mm(15.67in)


720.6mm(18.37in)
694.5mm(25.77in)
130.0mm(5.12in)
714.5mm(28.13in)
412.6mm(16.24in)

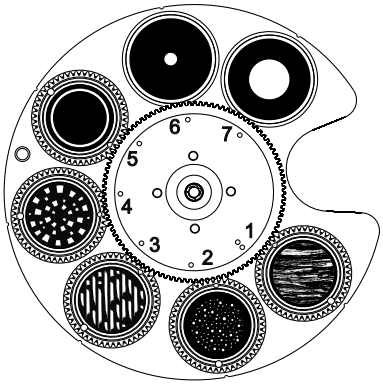

897.7mm(35.34in)
507.1mm(19.96in)
709.7mm(27.94in)
128.3mm(5.05in)


107.0mm(4.21in)
745.7mm(29.34in)
107.0mm(4.21in)

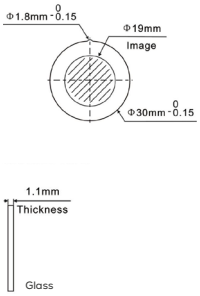

107.0mm(4.21in)
745.7mm(29.34in)
107.0mm(4.21in)



TECHNICAL SPECIFICATIONS



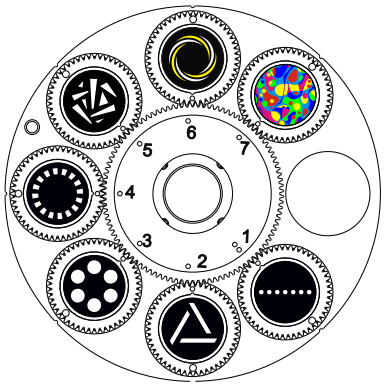
› Dimension:



GOBO WHEEL 1

Rotating Gobo			
1	105	Tree Bark	GPG0501308
2	075	Star Field	GPG0501307
3	278	Bread Stix	GPG0501306
4	070	Circle of Squares	GPG0501305
5	410	Conical Tunnel Effect	GPG0501304
6	307	Beam Reducer 0.9 ° *30% Iris Beam*	GPB0004659
7	302	Beam Reducer 2.5 ° *80% Iris Beam*	GPB0004661

This side facing towards light source



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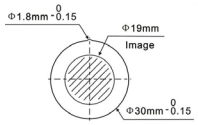
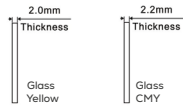
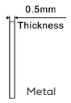


› Colour gobos:



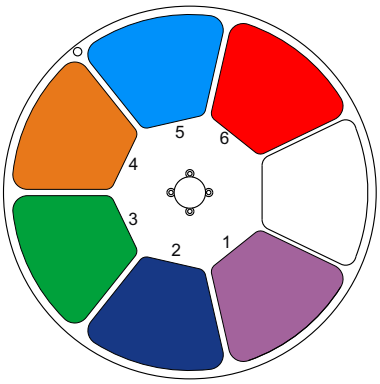
› Black & white gobos:



GOBO WHEEL 2

Rotating Gobo			
1	131	Dot Line 7	GPG0501218
2	427	Split Triangle 2	GPG0501309
3	320	Dot Ring 6	GPG0501227
4	369	Trapezium Ring 16	GPG0501221
5	266	Breaking Glass	GPG0501246
6	112Y	Nested Rings Yellow	GPG0501303
7	042	CMY Liquid Effect	GPG0501302

This side facing towards light source



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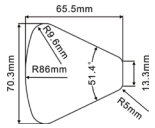
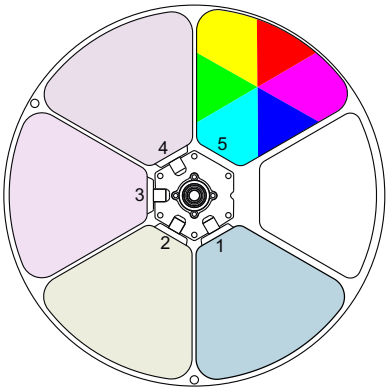


COLOUR WHEEL 1

1	Magenta	
2	Congo Blue	
3	Green	
4	Orange	
5	Blue	
6	Red	

This side facing towards light source



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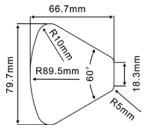
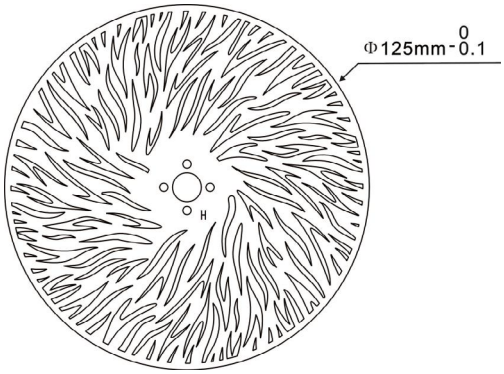


COLOUR WHEEL 2

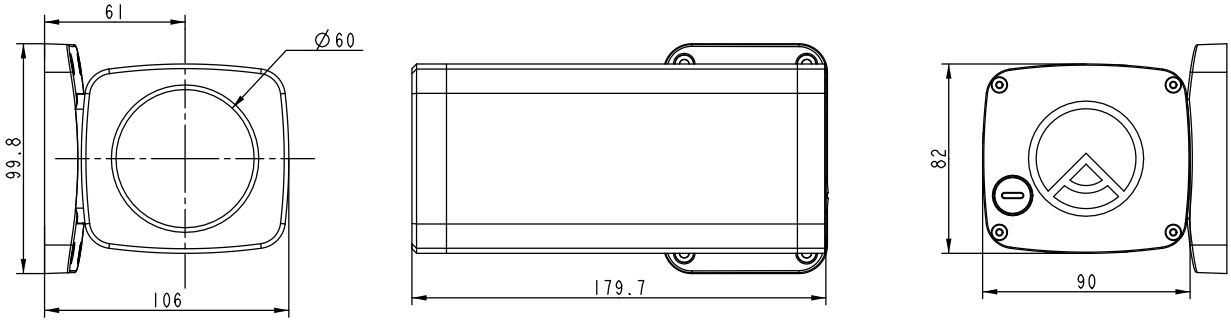
1	Gobo correction (CTB)	GPP0005216
2	Daylight CRI 80	GPP0005215
3	Half Minus Green	GPP0005214
4	High CRI 90	GPP0005213
5	Multi-colour	GPG0100789

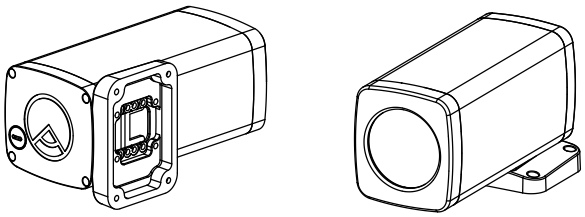
This side facing towards light source



ANIMATION WHEEL

-	-





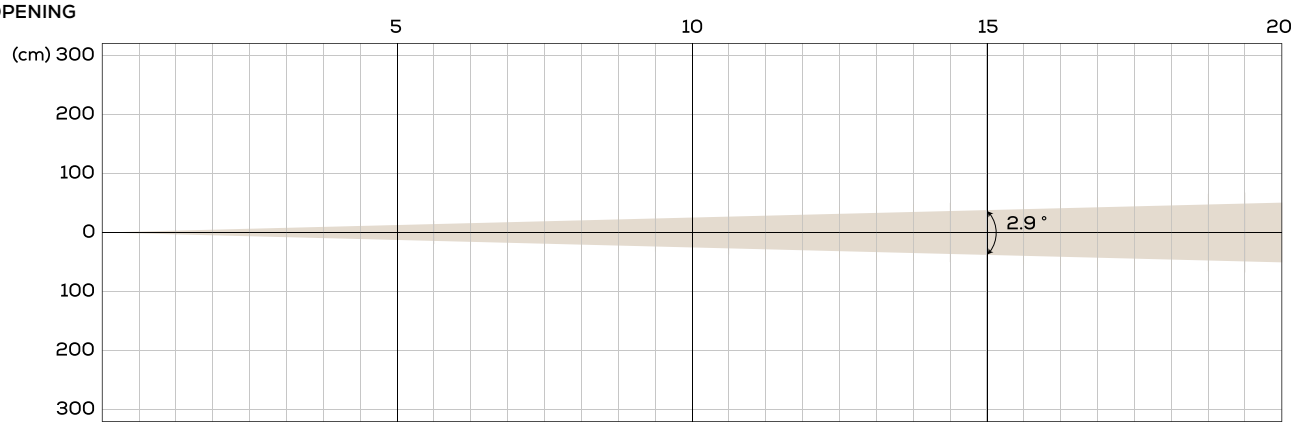
CAMERA ENCLOSURE

-	-	042840

AUTO MODE: PHOTOMETRIC DETAIL

MIN ZOOM

BEAM OPENING

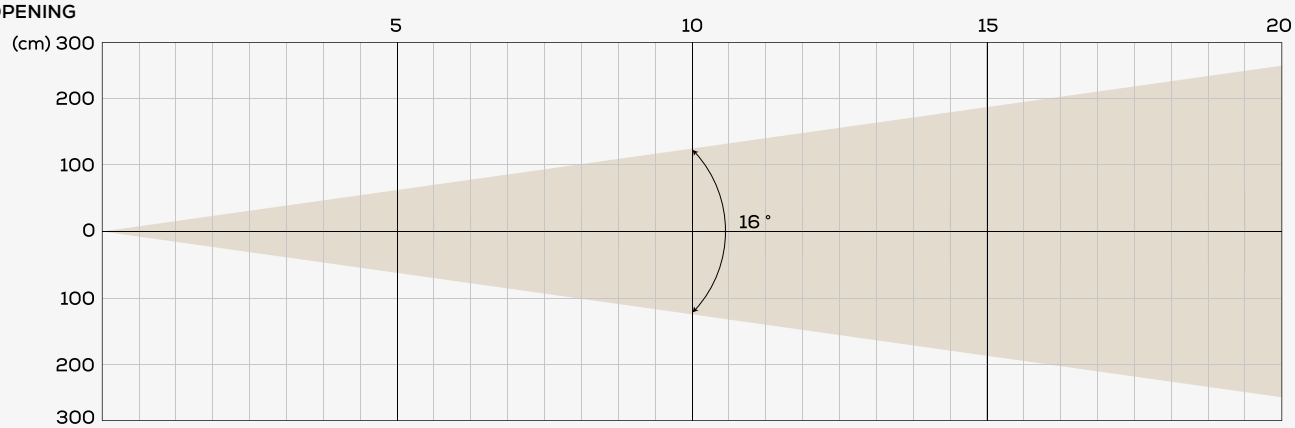


INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	440000	0.25	110000	0.51	48044	0.76	27500	1.01	4400	2.53	1100	5.06

MIDDLE ZOOM

BEAM OPENING

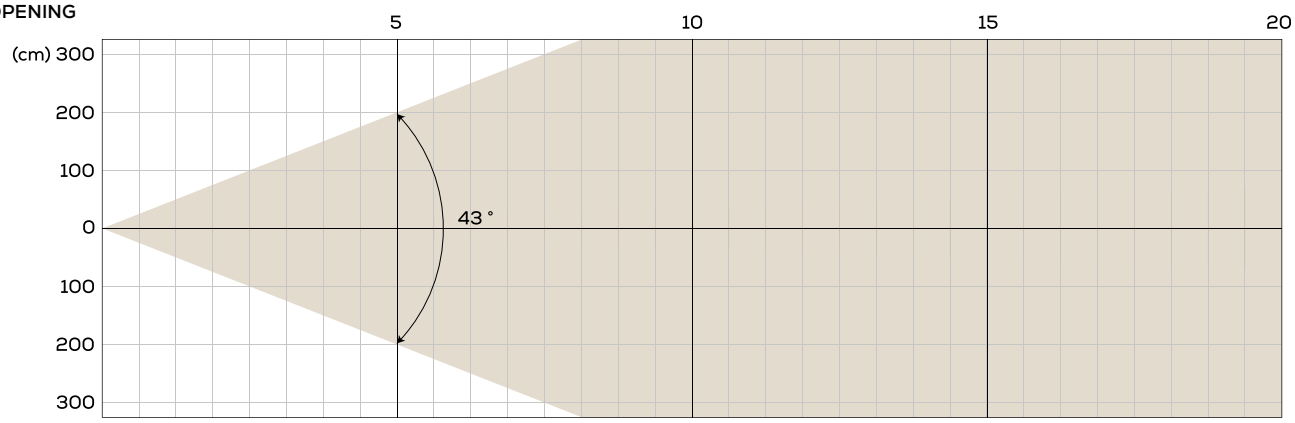


INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	38800	1.41	9700	2.81	4222	4.22	2425	5.62	388	14.05	97	28.11

MAX ZOOM

BEAM OPENING



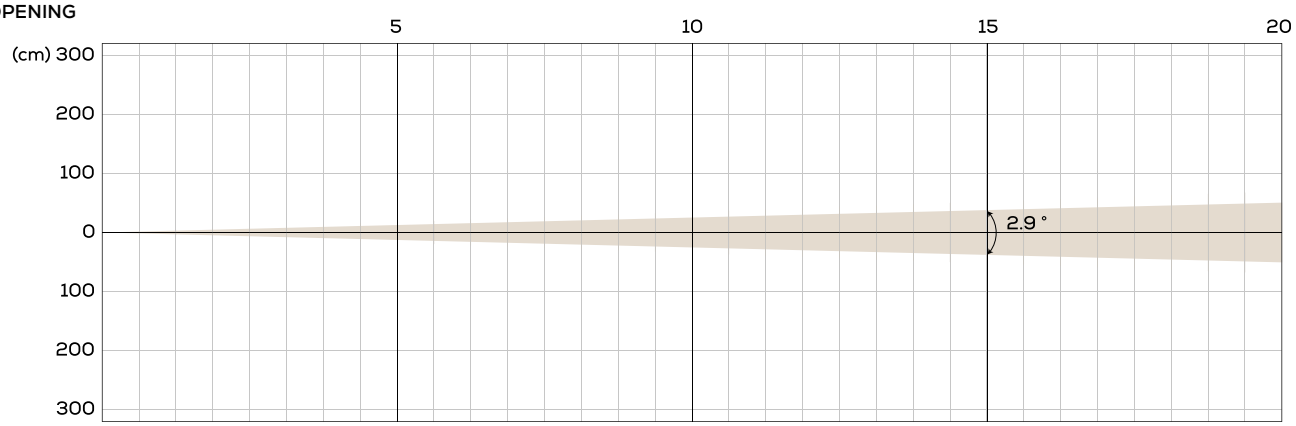
INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	5200	3.94	1300	7.88	578	11.82	325	15.76	50	39.39	13	78.78

STAGE MODE: PHOTOMETRIC DETAIL

MIN ZOOM

BEAM OPENING

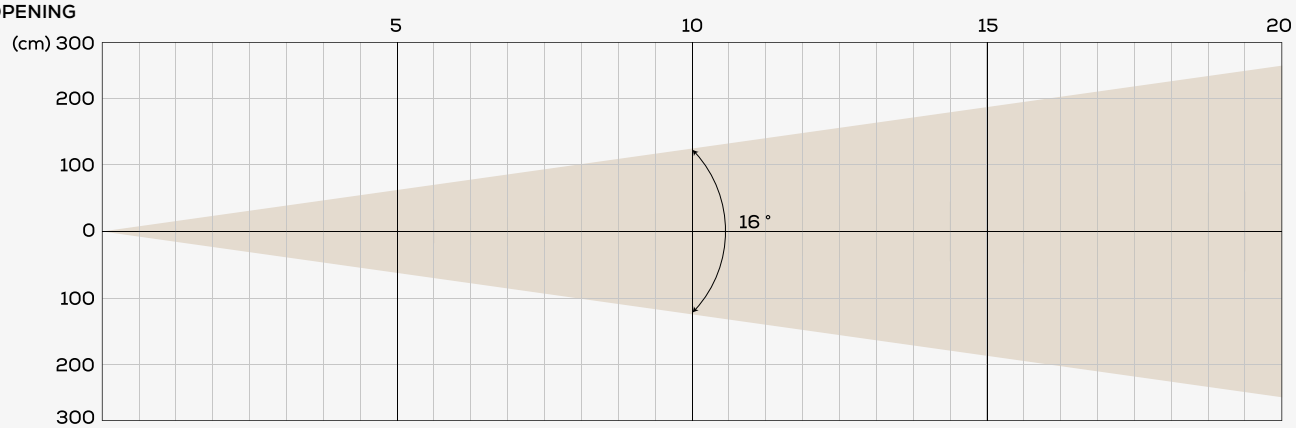


INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	460000	0.25	115000	0.51	51111	0.76	28750	1.01	4600	2.53	1150	5.06

MIDDLE ZOOM

BEAM OPENING

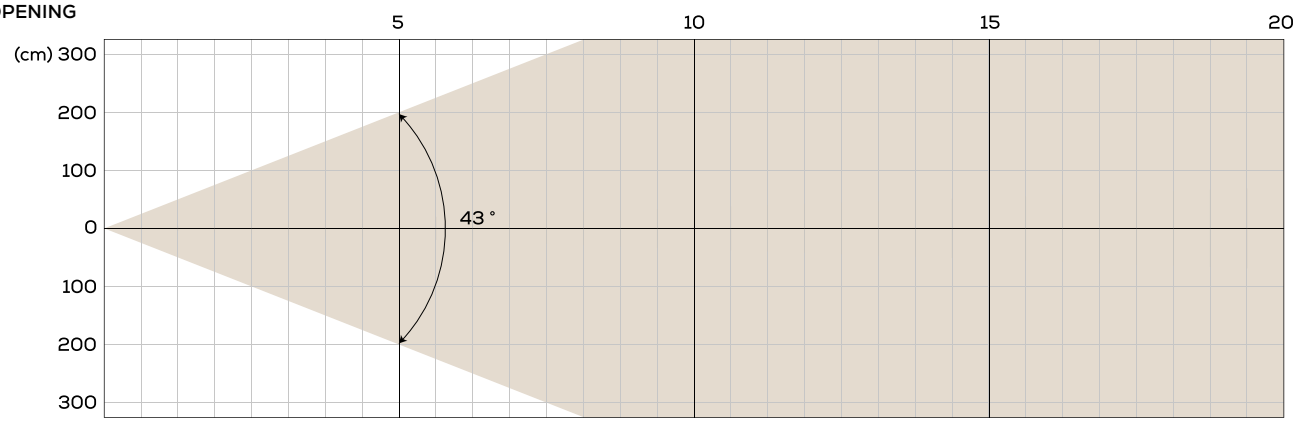


INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	39200	1.41	9800	2.81	4356	4.22	2450	5.62	392	14.05	98	28.11

MAX ZOOM

BEAM OPENING



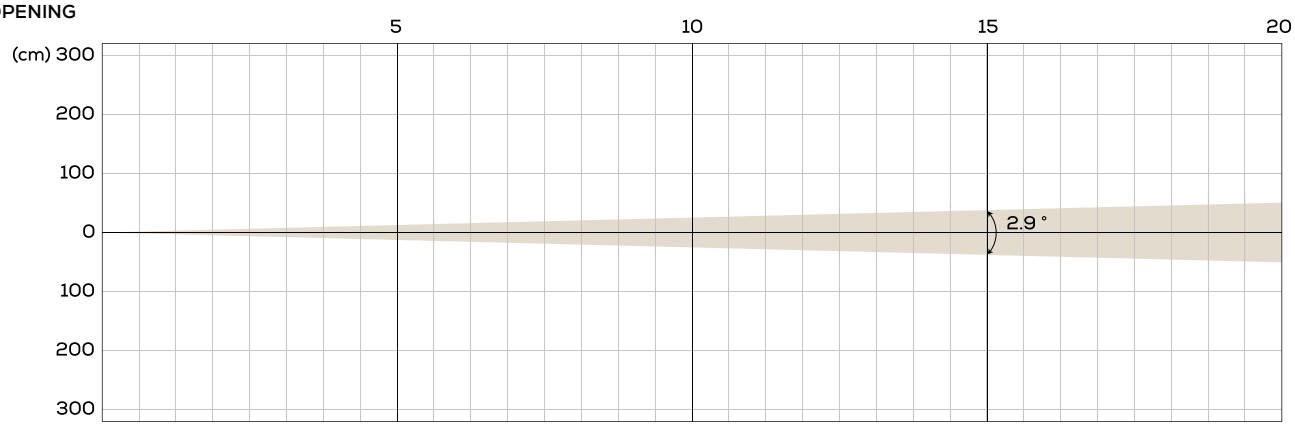
INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	5200	3.94	1300	7.88	578	11.82	325	15.76	50	39.39	13	78.78

SILENCE MODE: PHOTOMETRIC DETAIL

MIN ZOOM

BEAM OPENING

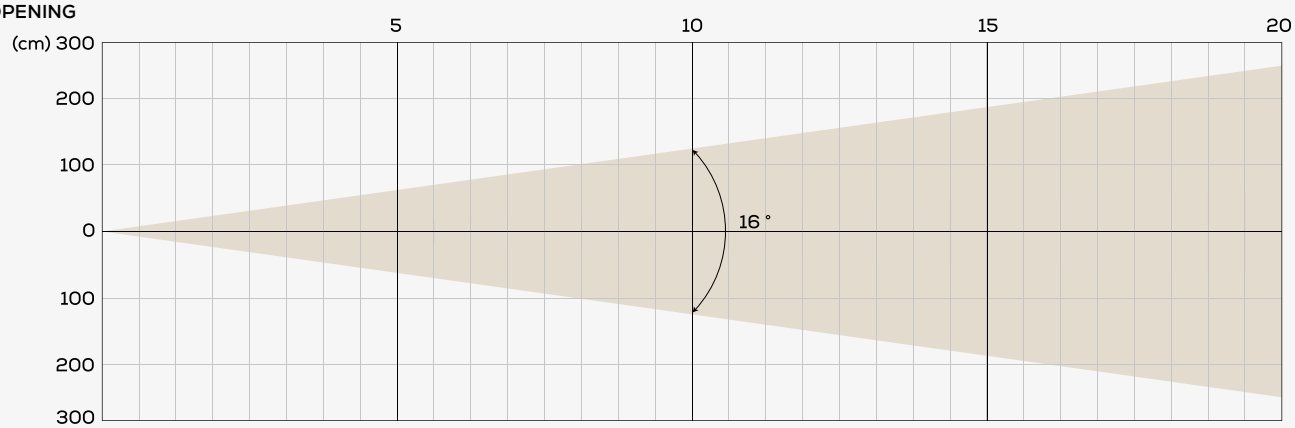


INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	304000	0.25	76000	0.51	33778	0.76	19000	1.01	3040	2.53	760	5.06

MIDDLE ZOOM

BEAM OPENING

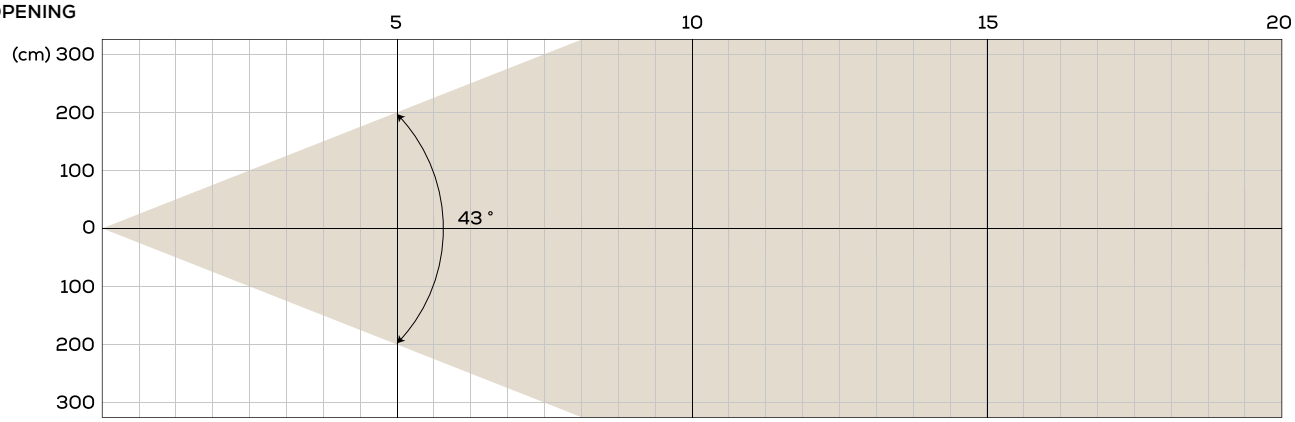


INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	26800	1.41	6700	2.81	2978	4.22	1675	5.62	268	14.05	67	28.11

MAX ZOOM

BEAM OPENING



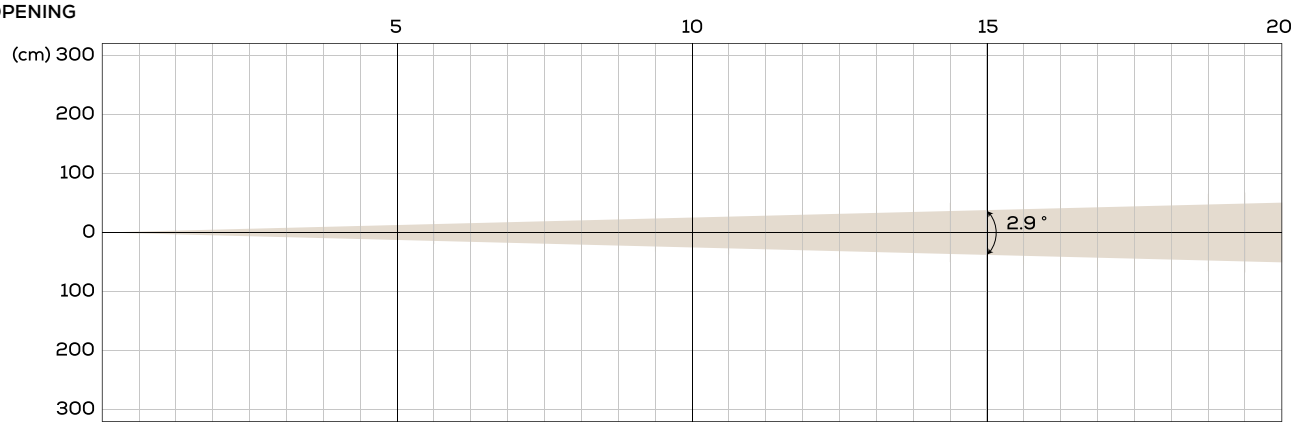
INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	3520	3.94	880	7.88	391	11.82	220	15.76	35	39.39	9	78.78

SUPER SILENCE MODE: PHOTOMETRIC DETAIL

MIN ZOOM

BEAM OPENING

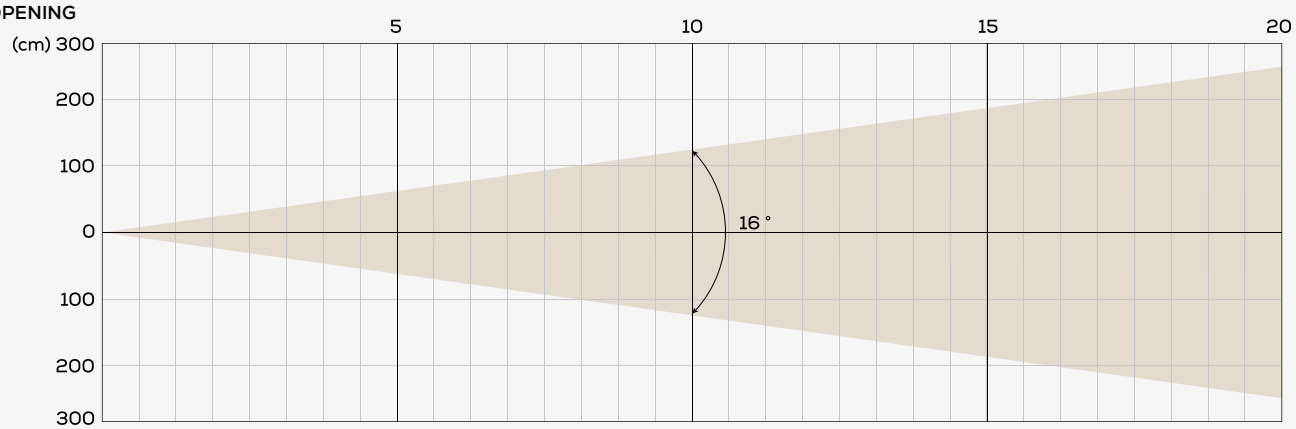


INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	216000	0.25	54000	0.51	24000	0.76	13500	1.01	2160	2.53	540	5.06

MIDDLE ZOOM

BEAM OPENING

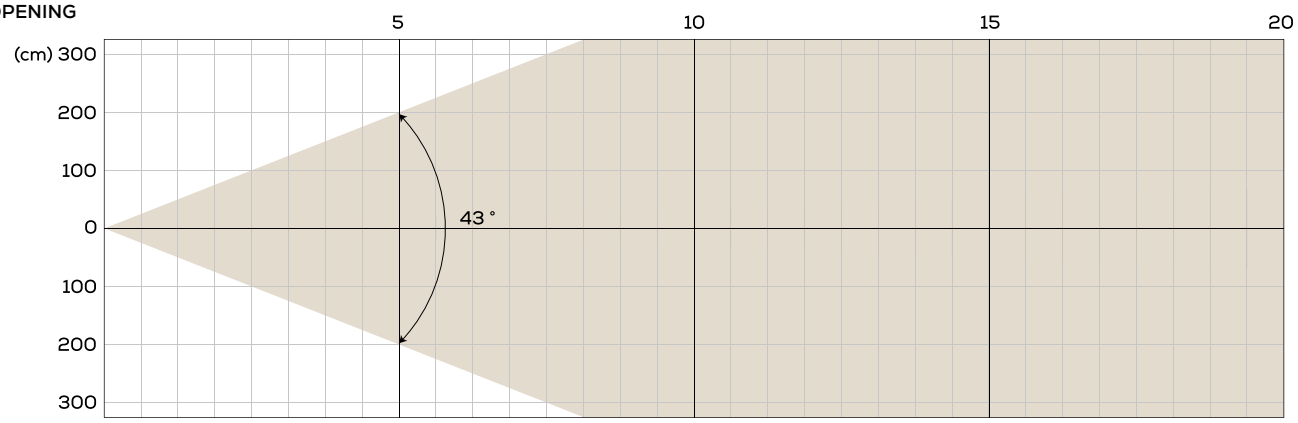


INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	20000	1.41	5000	2.81	2222	4.22	1250	5.62	200	14.05	50	28.11

MAX ZOOM

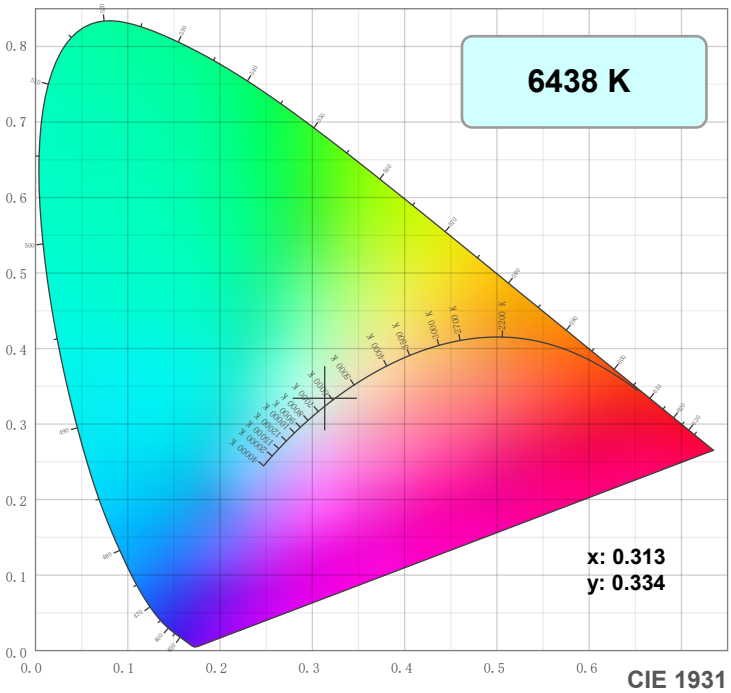
BEAM OPENING



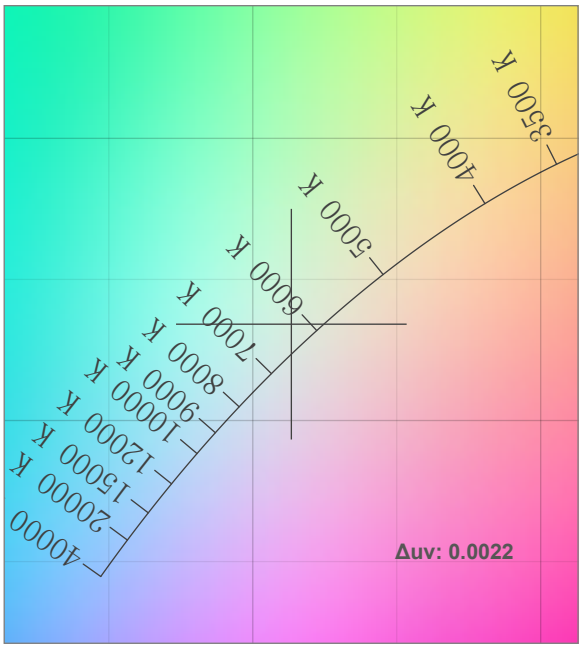
INTENSITY

Distance (m)	5		10		15		20		50		100	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	2640	3.94	660	7.88	293	11.82	165	15.76	26	39.39	7	78.78

COLOUR PARAMETERS

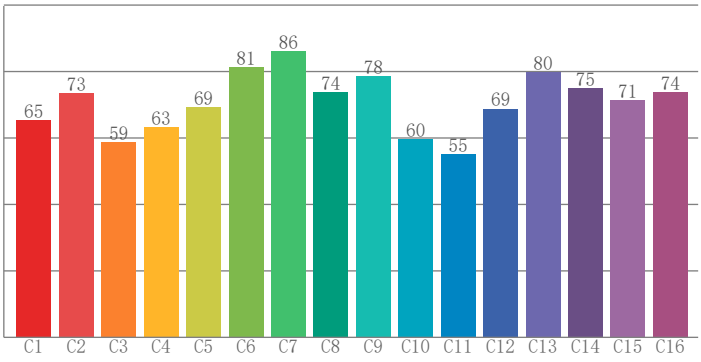


CIE 1931

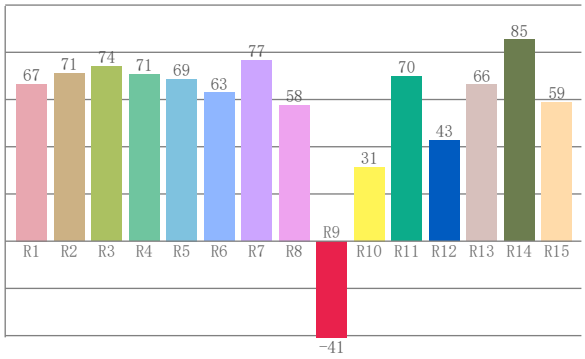


CIE 1931 ZOOM

TM-30: 70.1



CRI: 68.5 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
66.6	71.0	74.0	70.7	68.7	62.9	76.6	57.7	-40.7	31.4	69.9	42.7	66.2	85.3	59.0

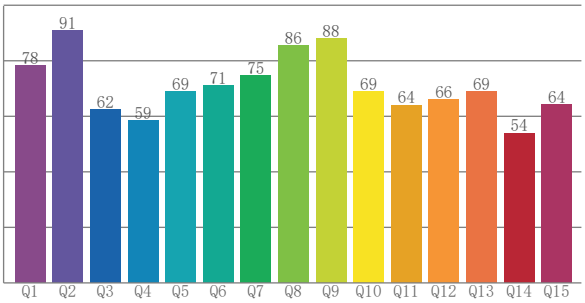
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
65.3	73.4	58.7	63.2	69.3	81.3	86.2	73.8	78.5	59.6	55.1	68.8	79.8	74.9	71.3	73.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.3	91.0	62.4	58.6	68.9	71.3	74.8	85.5	88.0	68.8	64.1	66.0	68.8	54.0	64.2

CQS: 69.2



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
6438 K	68.5	-40.7	70.1	94.1	69.2	0.313	0.334	0.196	0.314	0.0022

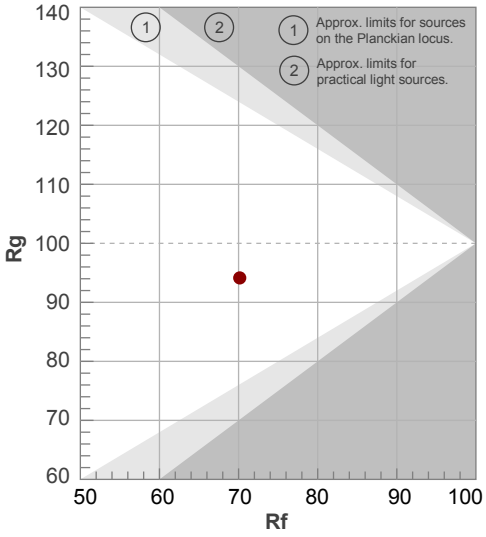
Rf 70.1

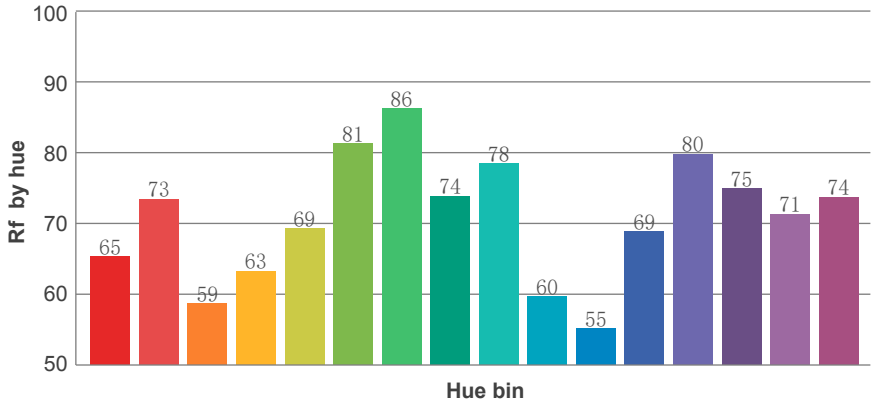
Fidelity index Rf

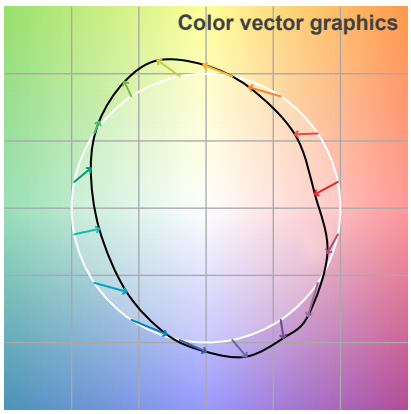
Rg 94.1

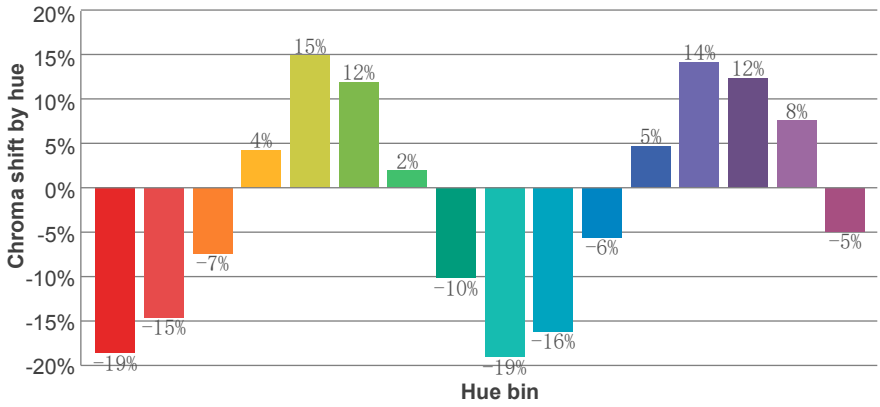
Gamut index Rg

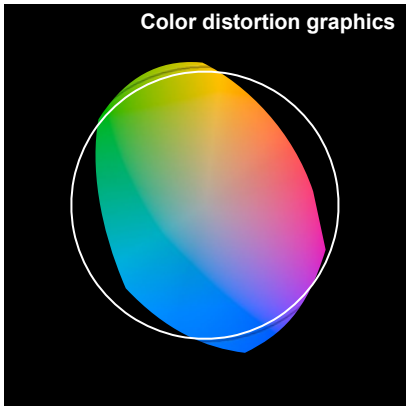
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	65	-19%	-6%
2	73	-15%	9%
3	59	-7%	23%
4	63	4%	23%
5	69	15%	14%
6	81	12%	-2%
7	86	2%	-9%
8	74	-10%	-12%
9	78	-19%	0%
10	60	-16%	19%
11	55	-6%	28%
12	69	5%	21%
13	80	14%	8%
14	75	12%	-6%
15	71	8%	-25%
16	74	-5%	-15%

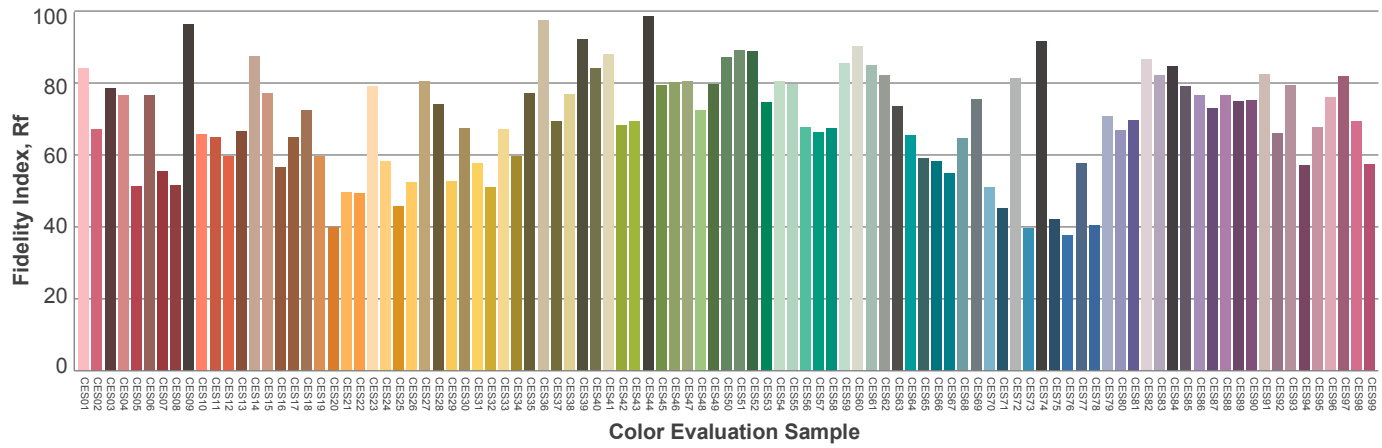




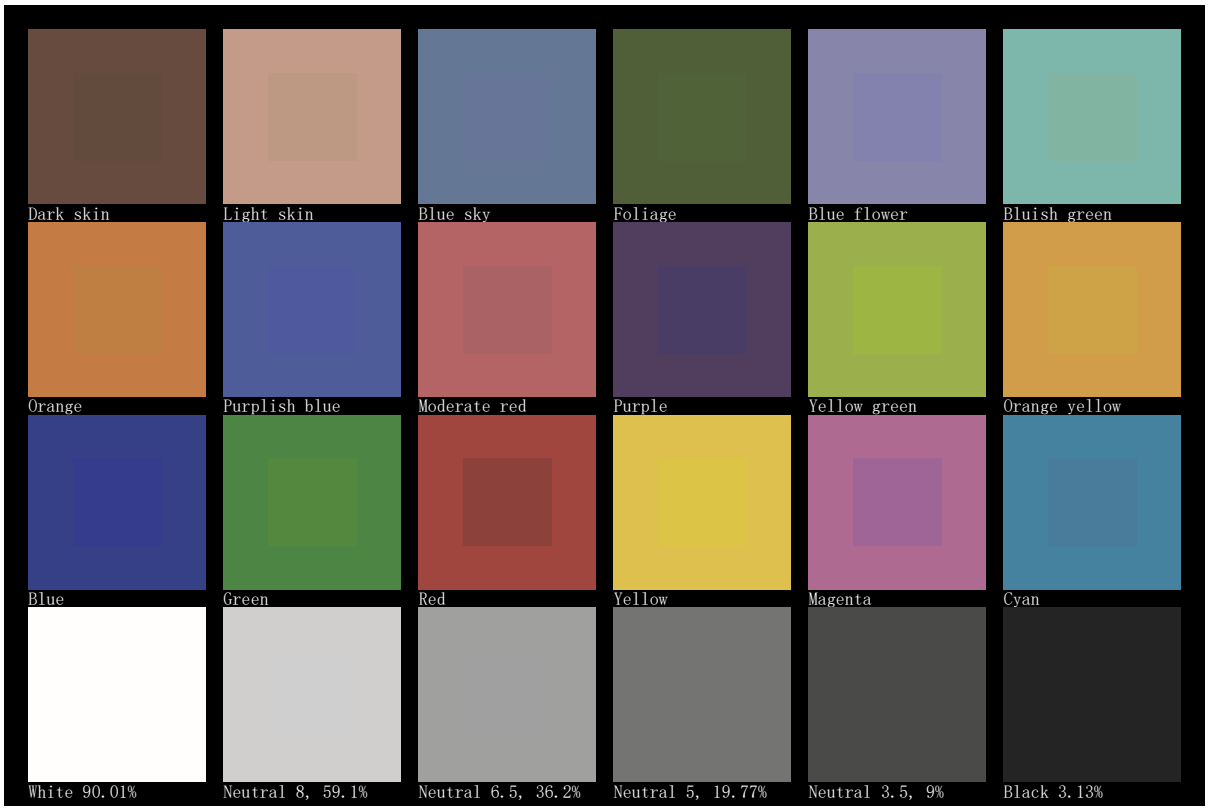








TLCI-47



⚠ DISCLAIMER

Errors and omissions for all information given in this scpecification sheet are possible. All information is subject to change without prior notice.