



Rivale Wash is the first ultra-equipped wash luminaire in Ayrton's brand new "Ultimate" range, developed for mixed indoor and outdoor use, including in salty environments.

Weight determines performance, Rivale Wash weighs just 30.8 kg, offering outstanding performance for a product in this category.

Rivale Wash is without equal on the market, with a unique visual signature. An all-new Fresnel lens, with an optical structure, has been specially developed for use with framing shutters, while also facilitating the use of geometric gobos or ovalization lenses. Its incredible ability to create extremely subtle atmospheres makes it an outstanding Wash light.

★ KEY FEATURES

➤ Revolutionary Design

Ayrton's Rivale Wash is a unique washlight that combines performance, creativity, subtlety and power. An extraordinary luminaire with no equivalent on the market.

➤ Versatility Redefined

Rivale Wash was developed for mixed indoor and outdoor use, including in salty environments. It operates comfortably between Ambient temperatures of -20 °C to 45 °C.

➤ Innovative Lighting Control

For greater creativity and design freedom, Rivale Wash comes as standard with infinite continuous rotation on both the pan & tilt axes, providing enhanced creativity and freedom in lighting design.

➤ F.O.S.™: Fresnel Optimisation System

A 12-element zoom system fitted with an optically structured Fresnel specially developed for using 4 framing shutter blades, geometric gobos, or an ovalisation beam shaper without the constraints associated with this type of lens. The F.O.S. system also significantly improves colour mixing and can produce 10% more light than when using a conventional Fresnel lens.

➤ Beam versatility

A subtle progressive diffusion system allows the level of diffusion to be adapted according to the application accessories or optical elements used. If the diffusion created by the Fresnel lens is insufficient, the progressive frost allows for an even softer beam.

➤ Colour Precision

The redesigned system employs single laser-engraved dichroic discs for Cyan, Magenta, Yellow, and CTO colours. These graduated dichroic glass discs cover the entire beam, enhancing the resolution of pastel colours and producing more luminous saturated colours.

The variable CTO flag allows for precise colour temperature adjustment from 2900 K to 6500 K.

The variable TrueColour filter improves the native CRI to 88, resulting in more realistic colours, warmer tones, and more natural skin tones. This improvement significantly enhances overall colour rendition and fidelity.

➤ Multi-functional Effects

The Scrim filter is a new glass gobo on the rotating gobo wheel. It is designed to be used to filter the brightest part of the beam when creating a wall wash or when using the fixture at shallow angles. The gobo is a graduated horizontal filter from 0% saturation to 15% saturation, and beam shaper is fully rotatable and indexable.

The beam ovaliser is a linear frost filter that transforms a circular beam into an oval shape, making it ideal for highlighting individuals or creating dynamic lighting effects. Fully indexable and rotatable, it can be aligned with multiple fixtures to produce a general cover.

TECHNICAL SPECIFICATIONS

SOURCE	
Engine	LED Mono Block, Sealed, White
LED Watts	430 W (LED engine only)
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	Hz 1-25 Per Second
Strobe Modes	Strobe Effects / Pulse Effects / Random Effects

ELECTRICAL	
Max Power Consumption	700 W
Standby Consumption	100 W @ 20 °C
Voltage Range	100-240 V 50-60 Hz
Current (Max)	3A @ 230 V / 6,3A @ 110 V
Inrush (Half Cycle)	110 V: 14.2 A 230 V: 12.6 A
Total Fixtures per Circuit	5 @ 220/230 V / 3 @ 110 V
Connector	PowerCON True1 TOP
Power Supply Unit	Active PFC
Contains Battery	N/A

TYPICAL POWER AND CURRENT	
120V , 60Hz	5.142 A, 612 W, PF 0.998
208V, 60Hz	2.922 A, 598 W, PF 0.985
230V, 50Hz	2.624 A, 593 W, PF 0.983
240V, 50Hz	2.514 A, 591.5 W, PF 0.981

OPTICAL PERFORMANCE	
Lens Size	170 mm (6.7 in)
Zoom Range	4° to 57°
Zoom Ratio	14:1
Gate Size	22 mm

MOVEMENT		
Pan Range	Infinite	
Pan Speed (End to End or range)	180°	100.7 rpm
	360°	161.6 rpm
	EtoE	207.2 rpm
Tilt Range	Infinite	
Tilt Speed (End to End or range)	180°	88.6 rpm
	EtoE	117 rpm
Resolution	8- or 16-bit	
Calibration Time	66 sec	
Position Correction System	Yes / Automatic repositioning	
Follow Spot Modes	Manual & Tracking system	

COLOUR SYSTEM	
Colour System(s)	CMY, CTO and 7 Colour Wheel
Control	CMY 16-bit & 8-bit
CTO	2900 K - 6500 K
Additional Colour Control	TrueColour Enhancer™ filter to 88 CRI
Colour Wheel	One wheel. Seven Dichroic changeable colours
Colour Wheel Effects	Continuous Rotation

GOBOS	
Indexing Wheel	1
Indexing Gobos	7 (Glass see load below) + 1 Open
Gobo Diameter (Index)	25.2 mm
Image Diameter (Index)	20 mm
Static Wheel	N/A
Static Gobos	N/A
Gobo Diameter (Fix)	25.5 mm
Image Diameter (Fix)	19 mm
Gobo Thickness	1.1 mm
Animation Wheel	Yes
Animation Details	Bi-Directional with continuous rotation

TECHNICAL SPECIFICATIONS

PERFORMANCE		
LED engine output (Sphere)		35,000 lm
Fixture output (Sphere)		24,900 lm (Fan Mode Auto)
		27,560 lm (Fan Mode Stage)
		16,100 lm (Fan Mode Silence)
		10,800 lm (Fan Mode Super Silence)
Fixture Output (Goniometer)		35,500 lm (Fan Mode Auto)
Field Lumens (Goniometer)	Narrow	9,074 lm
	Middle	19,556 lm
	Wide	18,314 lm
Lumen Per Watt (LPW) Max fixture output/230V Typical Power		47.2 (28,000 L / 593 W)
CCT		6500 K
Δuv		- 0.0047
CRI		Ra: 70 (± 2)
With TrueColour™ Filter		> 70 to 88
Tm30		Rf: 72 Rg: 94.6
TLCI		49
CQS		68.9

IMAGING	
Framing	4 Blade – 4 Plain Full Swipe
Framing Rotation	+/- 90°
Iris	15 Leaf - 15% to 100% (Open)
Frost	0% to 100% variable linear frost
Effects	▪ Focusable CMY & RGB graphic animation effect-wheel with continuous rotation in both directions. ▪ Indexable, beam shaping ovalising lens.

CONNECTORS	
Power	In/Thru powerCON True 1
DMX	In/Thru 5 Pin XLR
Network	In/Thru RJ45
Wireless	DMX Only

CONTROL	
DMX Control	DMX (USITT DMX-512-A) RDM (ANSI/ESTA E1.20)
Transceiver/Receiver	RS-485 with Opto Isolation
DMX Modes	3 + 3 User Modes
Channel Count	Mode 1 Extended – 65
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, presets 250
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°	90 °C (194 °F)
Max Ambient Temperature (Ta Max)	45 °C (113 °F)
Min Ambient Temperature (Ta Min)	-20 °C (-4 °F)
Total Heat Dissipation (Calculated +/- 10%)	172.8 BTU/H 590 W @ 240 V 179.3 BTU/H 612 W @ 120 V
Minimum distance to illuminated surface	2 m (6.56 ft)
Minimum distance to combustible surface	3 m (9.84 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	34.3 dBA	22
Stage	37.7 dBA	28
Silence/Studio	27.7 dBA	NA
Super Silence	26.1 dBA	NA

DYNAMIC

Mode	dBA ¹	NC ²
Auto	41.3 dBA	34
Stage	40.9 dBA	32
Silence/Studio	40.8 dBA	34
Super Silence	41.3 dBA	35

1. Measured @ 1m Static, 31dBA ambient

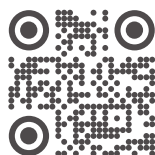
2. Noise Criterion

https://www.engineeringtoolbox.com/nc-noise-criterion-d_517.html

ENVIRONMENTAL

IP Rating	IP65
Salt Spray Testing	Pending
Estimated embodied carbon including: ▪ A1 - Raw materials of fixture and packaging ▪ A3 - Product manufacturing	285.3 kg CO ₂ e/fixture
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: four ¼ turn locking fittings allowing installation of Omega brackets on luminaire. - Safety cable attachment point.
Installation version	Yes IP66

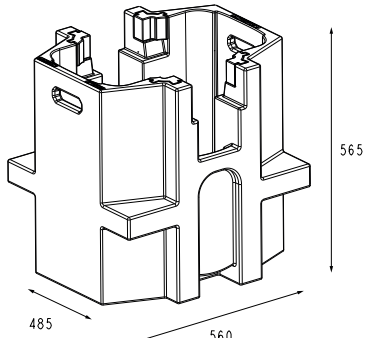
CONSTRUCTION

Colour	Carbon Black Standard Custom colours on request
Materials	- Moving-head skeleton made of aluminium and steel metal plates - Head in die-cast aluminium - Base in die-cast aluminium - 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

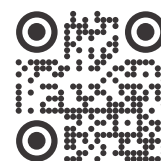
Manual	1
OMEGA brackets with quarter-turn locks	2
Cables	- IP65: 1 cable PowerCON True1 TOP to bare end, 1.5m - IP66: DMX IN / OUT tails to bare end for IP66 DMX connection - Ethernet IN / OUT tails to bare end for IP66 ArtNet™ connection - Power tail to bare end for IP66 power connection
Other accessories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

TECHNICAL SPECIFICATIONS

PHYSICAL	
Fixture	
Length	360 mm (14.2 in)
Height	676 mm (26.6 in)
Depth	316 mm (12.4 in)
Weight	30.8 kg (67.9 lb)
IP65	
Length	360 mm (14.2 in)
Height	676 mm (26.6 in)
Depth	316 mm (12.4 in)
Weight	30.8 kg (67.9 lb)
IP66	
Length	360 mm (14.2 in)
Height	676 mm (26.6 in)
Depth	316 mm (12.4 in)
Weight	30.8 kg (67.9 lb)
Shipping Dimensions	
Length	575 mm (22.6 in)
Height	665 mm (26.2 in)
Depth	500 mm (19.7 in)
Weight	43 kg (94.8 lb)
In SIP Dimensions	
Length	560 mm (22 in)
Height	565 mm (22.2 in)
Depth	485 mm (19 in)
Weight (excl fixture)	12 kg (26.4 lb)
SIP Drawing	

SUPPORTING DOCUMENTS

Manual
GDTF Profile
GMA Profile
IES File
DMX Chart
Photometric Files
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: 2018
ROHS Compliant	Yes
Declarations	Scan the QR code above

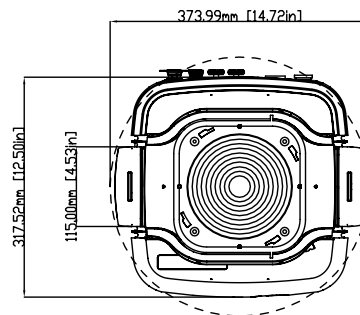
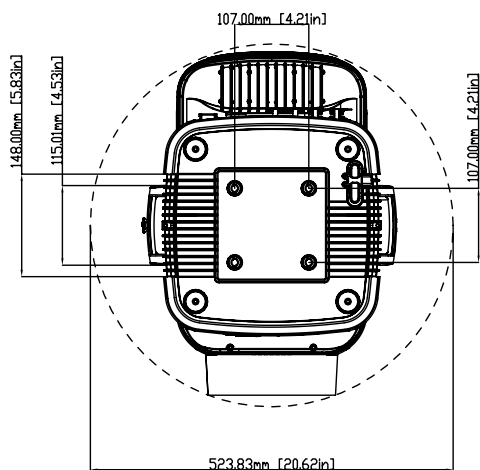
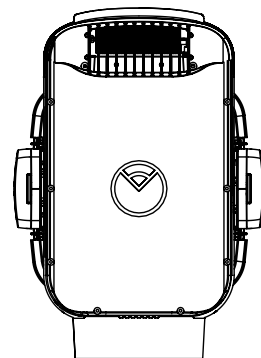
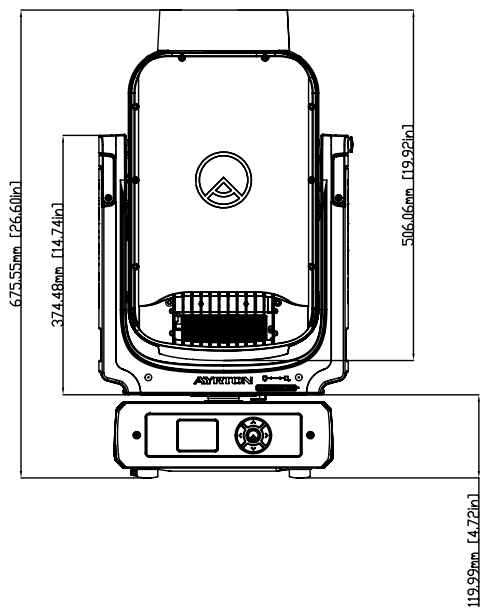
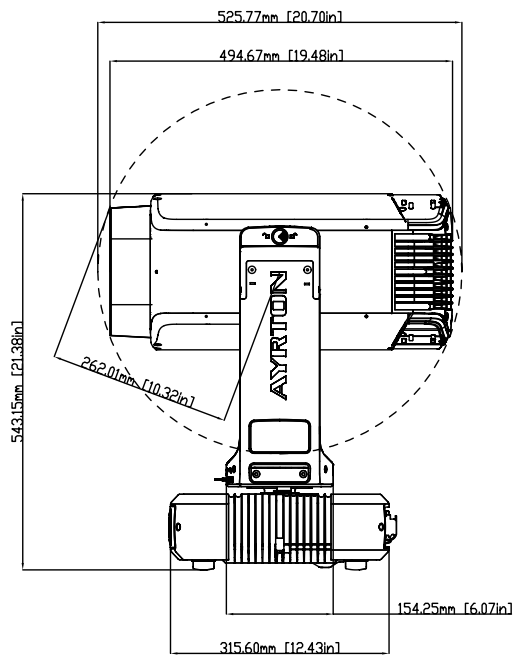
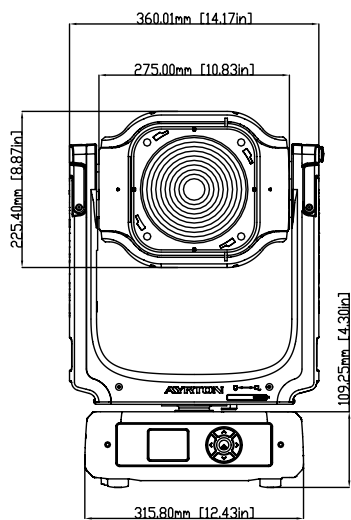
ORDERING DETAILS

Rivale Wash S	012341
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ACCESSORIES

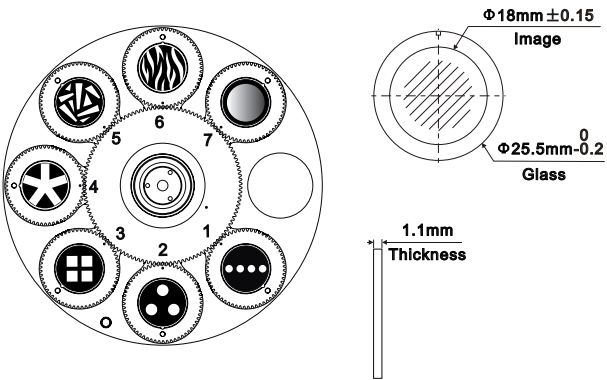
IP Test Kit	048250
Lynx Control	045130
Tophat	TBC
Honeycomb	TBC
Concentric rings	TBC
Omega Bracket	GP50501990353

TECHNICAL SPECIFICATIONS

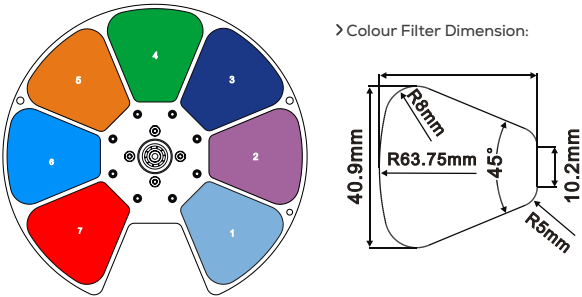


TECHNICAL SPECIFICATIONS

> Dimension/Tolerance/Requirement:
Black & White Gobo:



> Colour Filter Dimension:



GOBO WHEEL 1

Rotating Gobo

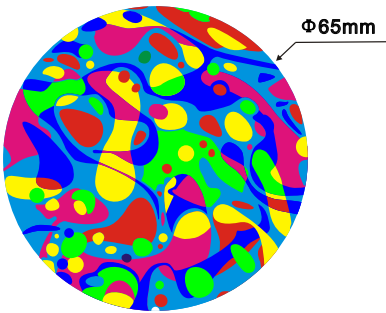
1	314	Dot Line 4	GPG0500162
2	326	Dot Triangle 3	GPG0500165
3	332	Square Beam 4	GPG0500167
4	342	Five Spokes	GPG0500167
5	266	Breaking Glass	GPG0500166
6	098	Waves	GPG0500163
7	-	Scrim Filter	GPG0500396

COLOUR WHEEL

Animation Wheel

1	CTB 1/4	GP60305032892
2	Magenta	GP60305032893
3	Congo Blue	GP60305032894
4	Green	GP60305032895
5	Orange	GP60305032896
6	Blue	GP60305032897
7	Red	GP60305032898

This side facing LED module

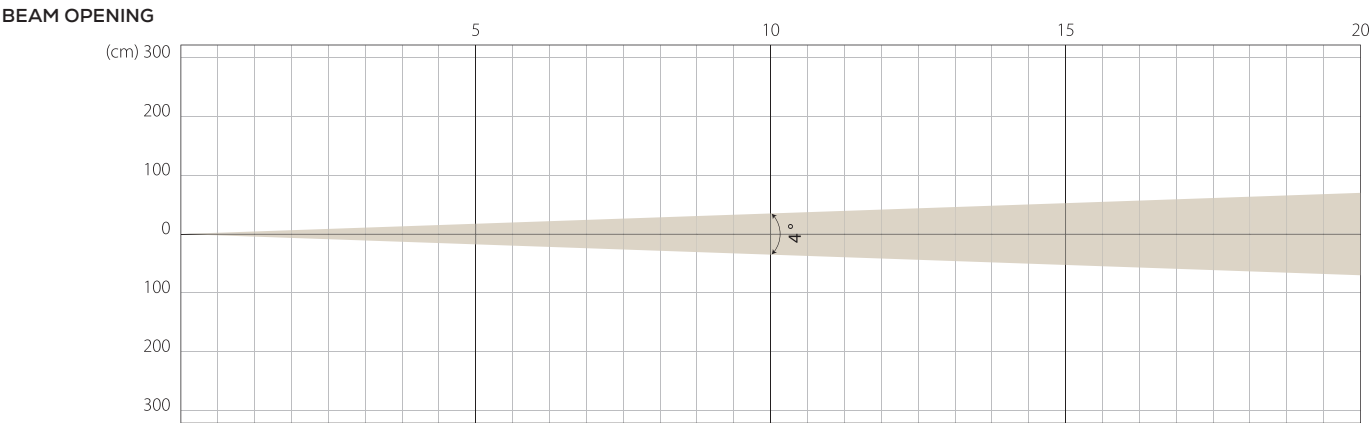


ANIMATION WHEEL

-	-	GP60303990129
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AUTO MODE: PHOTOMETRIC DETAIL

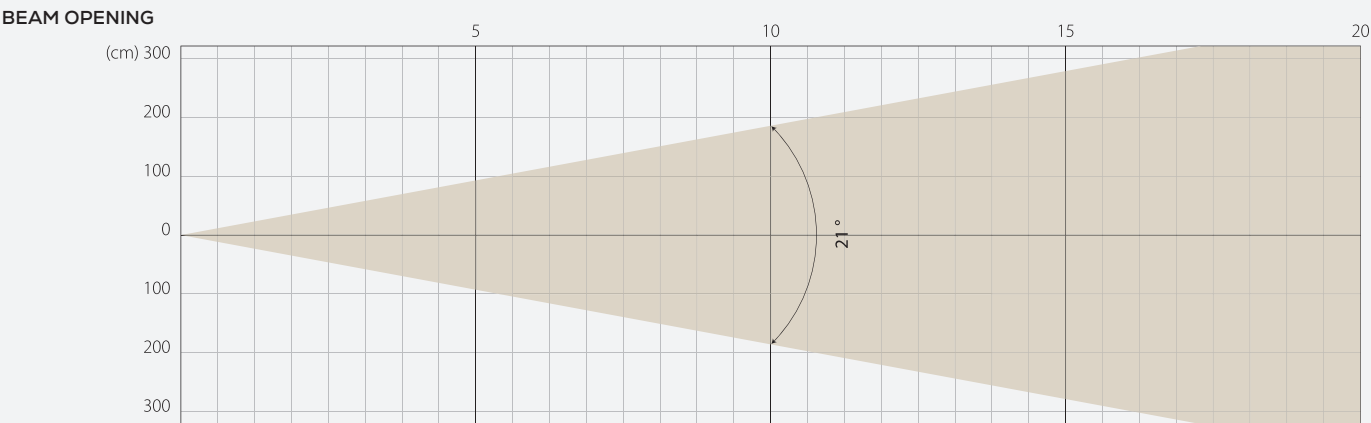
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	59003	0,35	14751	0,7	6556	1,05	3688	1,4

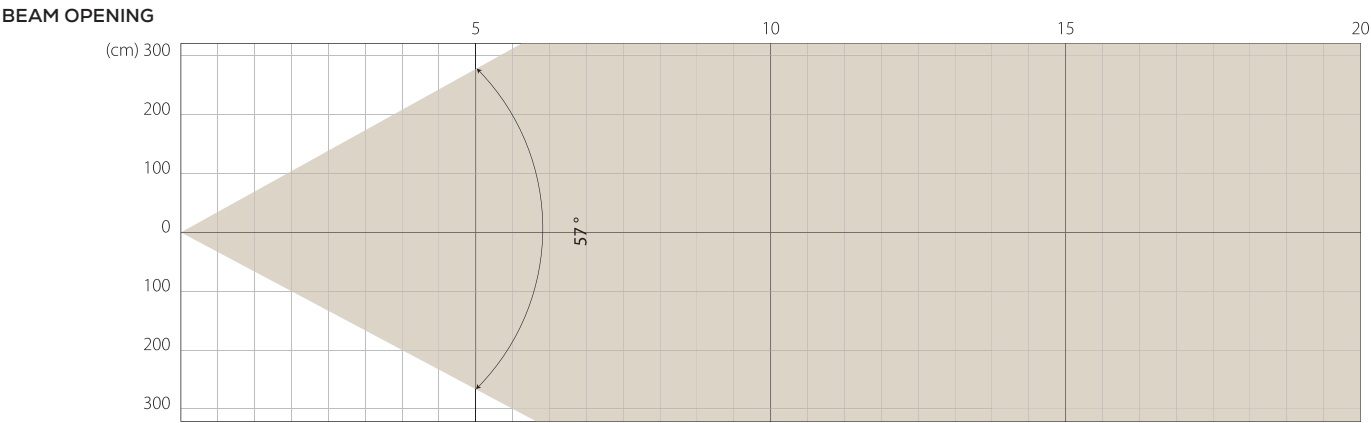
MIDDLE ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	11052	1,85	2763	3,71	1228	5,56	691	7,41

MAX ZOOM

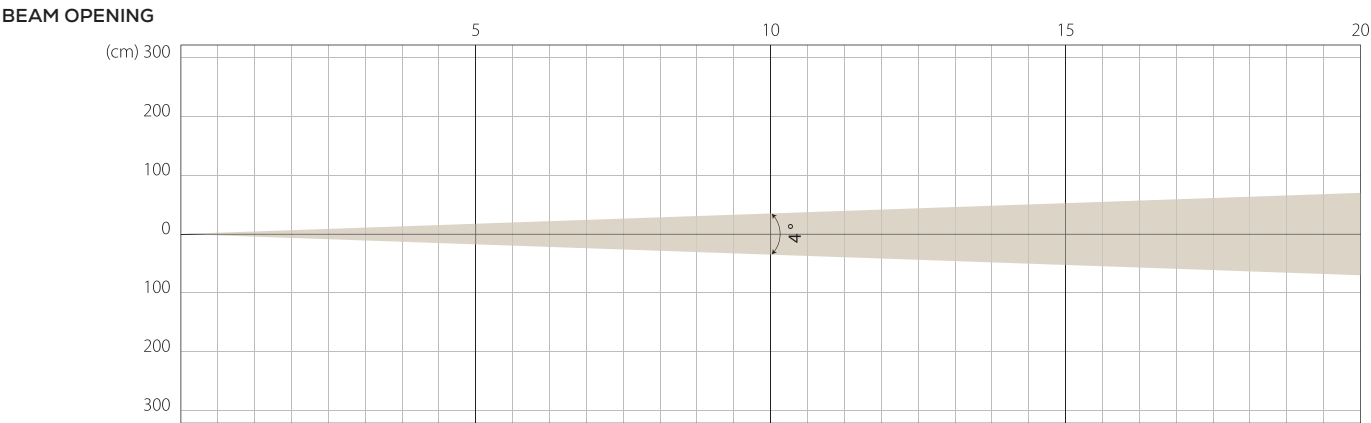


INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	1559	5,43	390	10,86	173	16,29	97	21,72

STAGE MODE: PHOTOMETRIC DETAIL

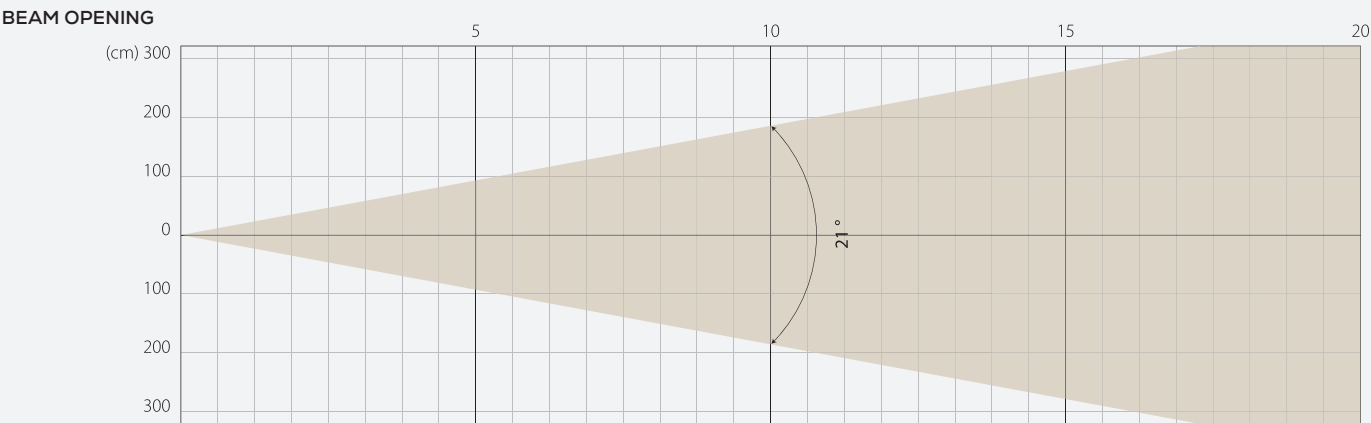
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	60121	0,35	15030	0,7	6680	1,05	3758	1,4

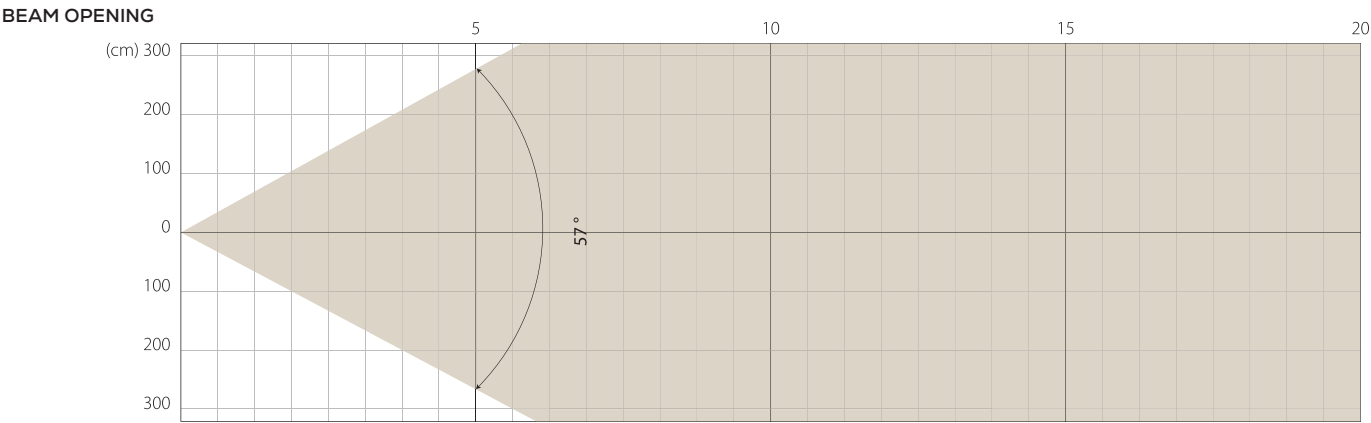
MIDDLE ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	10647	1,85	2669	3,71	1186	5,56	667	7,41

MAX ZOOM

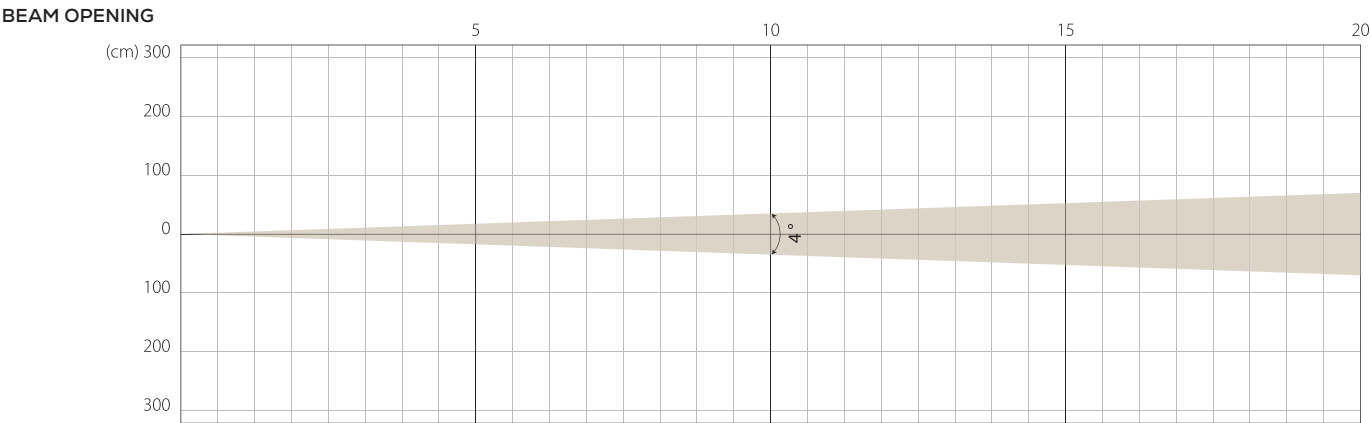


INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	1629	5,43	407	10,86	181	16,29	102	21,72

SILENCE MODE: PHOTOMETRIC DETAIL

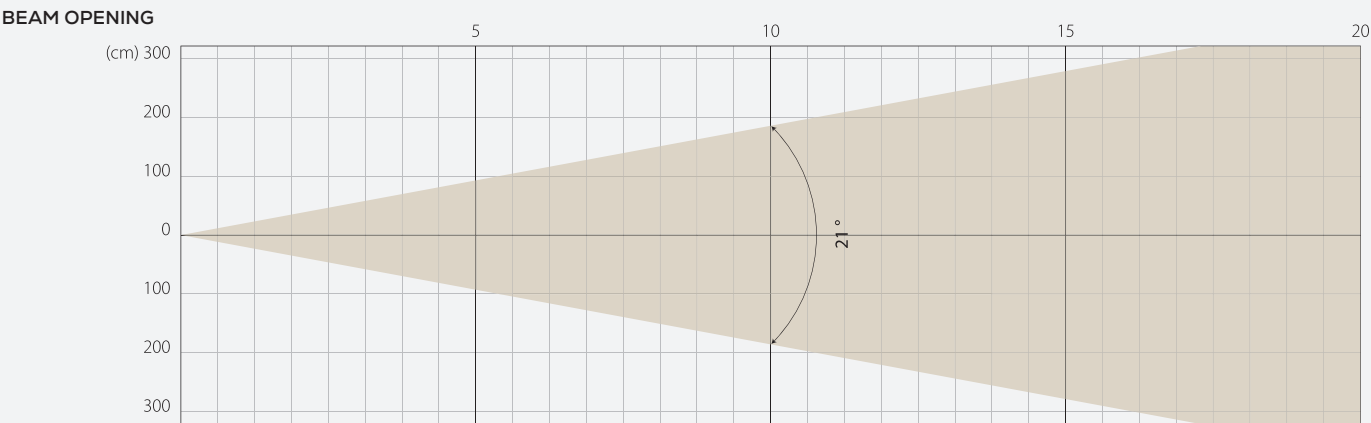
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	37282	0,35	9321	0,7	4142	1,05	2330	1,4

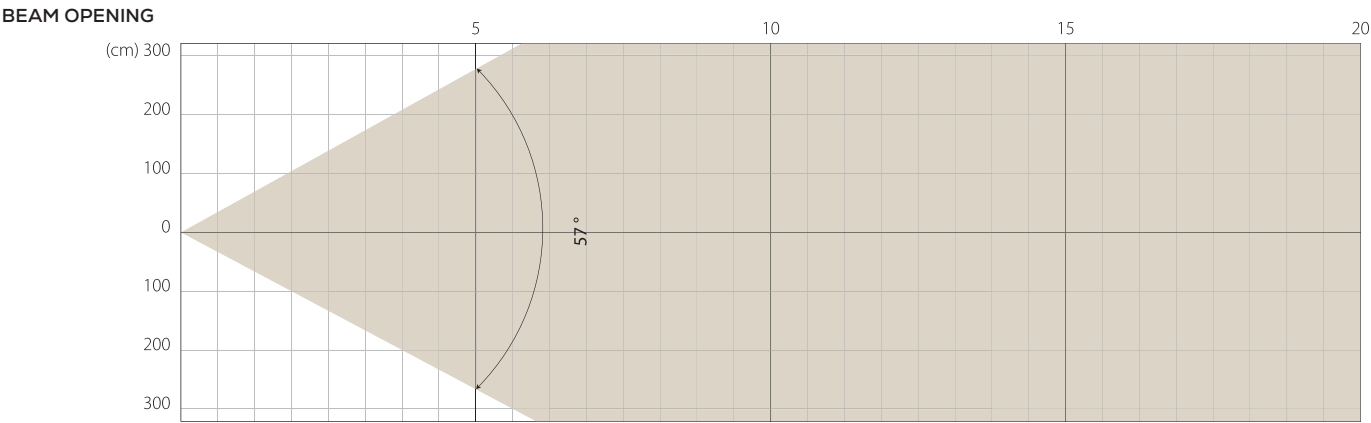
MIDDLE ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	6501	1,85	1625	3,71	722	5,56	406	7,41

MAX ZOOM

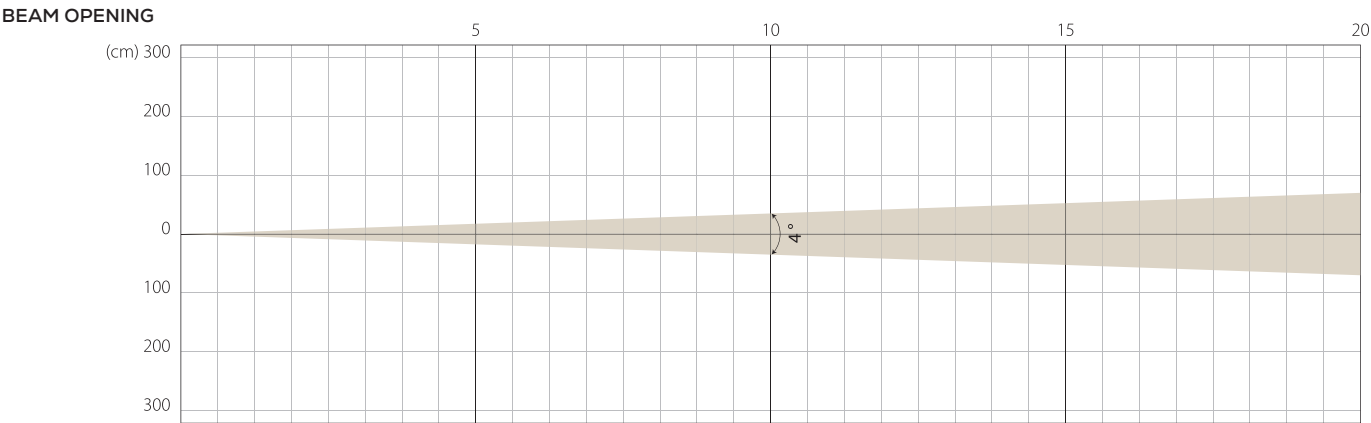


INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	1024	5,43	256	10,86	114	16,29	64	21,72

SUPER SILENCE MODE: PHOTOMETRIC DETAIL

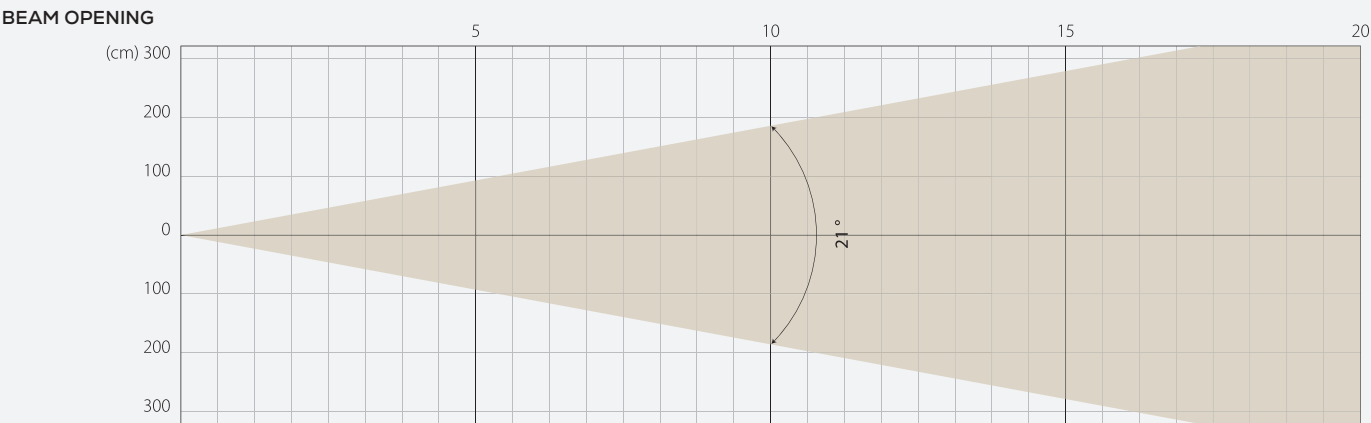
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	25566	0,35	6391	0,7	2841	1,05	1598	1,4

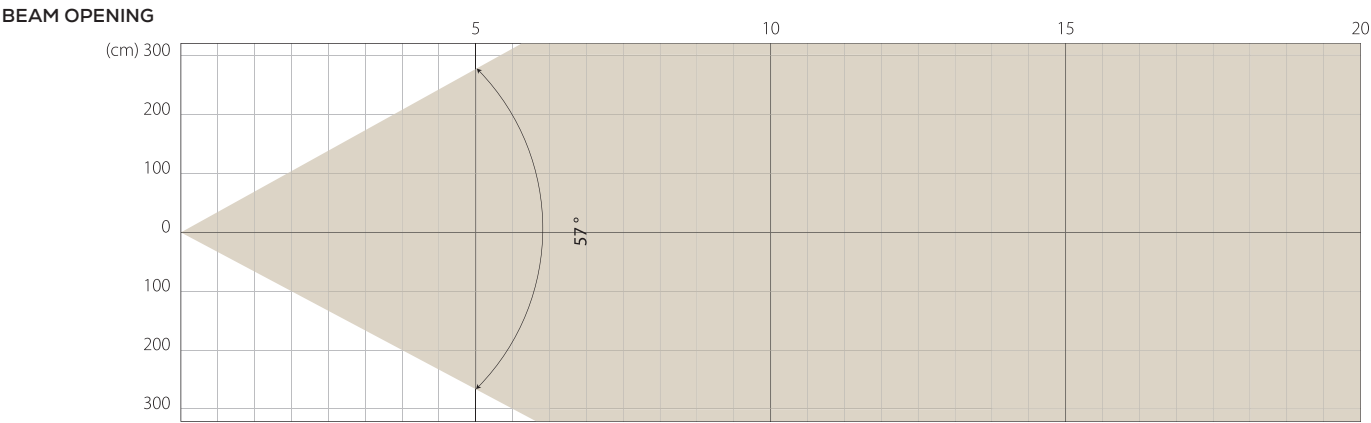
MIDDLE ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	4580	1,85	1145	3,71	509	5,56	286	7,41

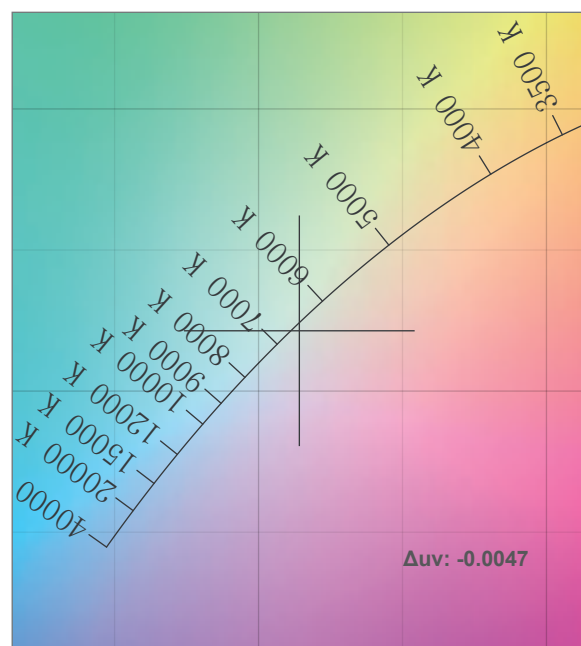
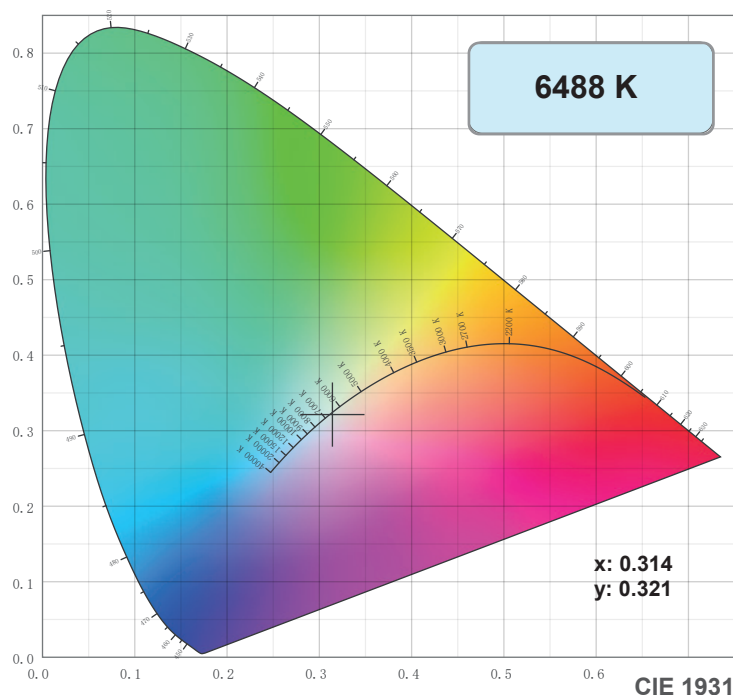
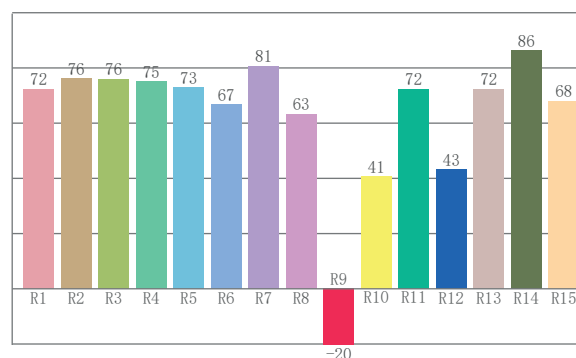
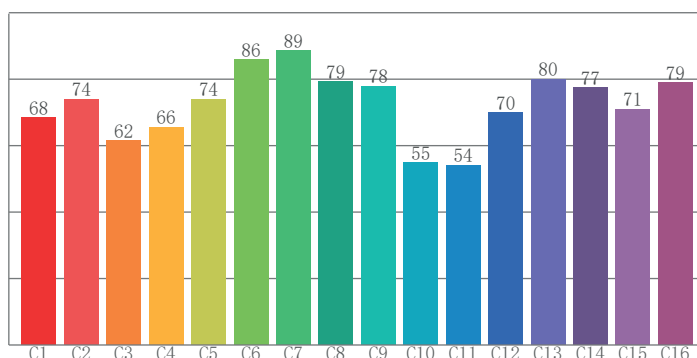
MAX ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	688	5,43	172	10,86	76	16,29	43	21,72

COLOUR PARAMETERS


TM-30: 72.0
CRI: 72.9 (R1-R8)

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

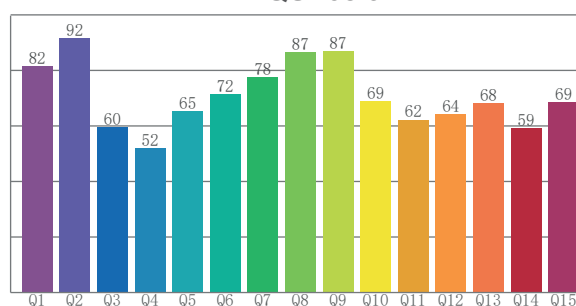
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
72.3	76.3	76.0	75.1	72.9	66.7	80.7	63.2	-20.4	40.7	72.3	43.3	72.4	86.2	68.1

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
68.5	73.9	61.5	65.5	74.0	85.8	88.5	79.3	77.8	54.8	54.1	69.9	79.9	77.4	71.0	79.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81.5	91.8	59.6	52.1	65.4	71.6	77.6	86.7	86.8	69.0	62.3	64.2	68.3	59.2	68.6

CQS: 68.9


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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
6488 K	72.9	-20.4	72.0	94.6	68.9	0.314	0.321	0.202	0.310	-0.0047

TM-30

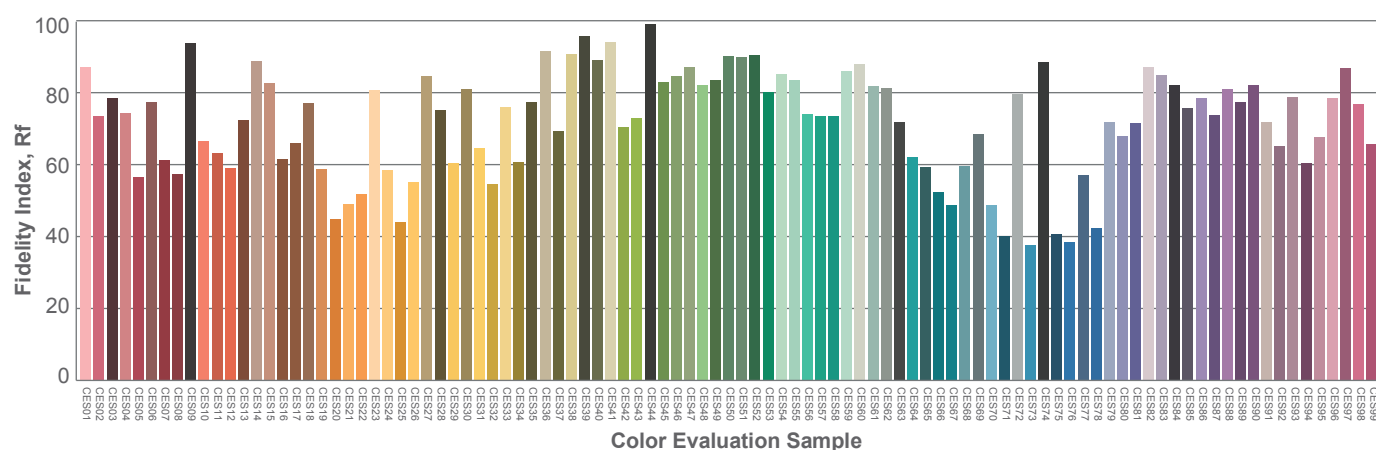
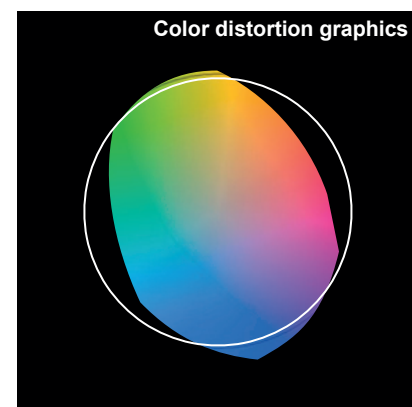
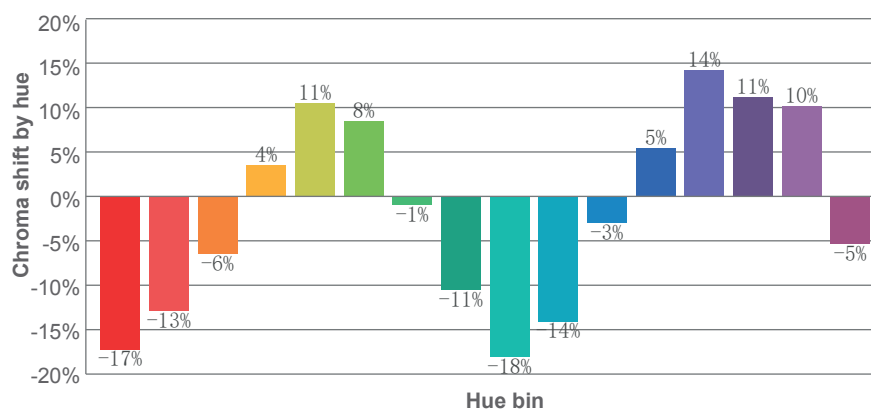
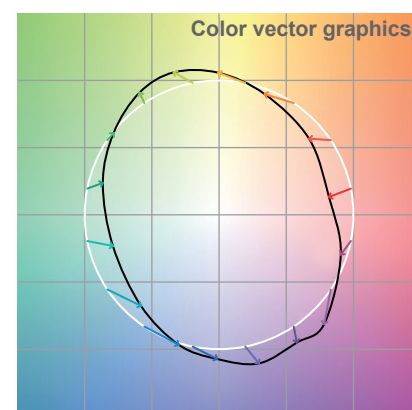
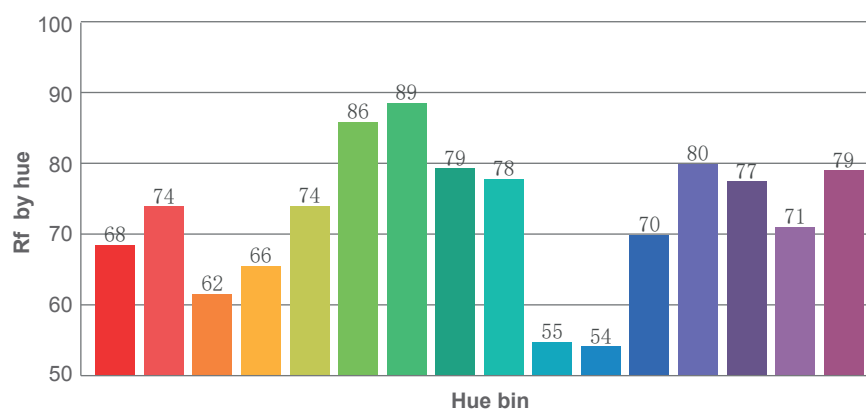
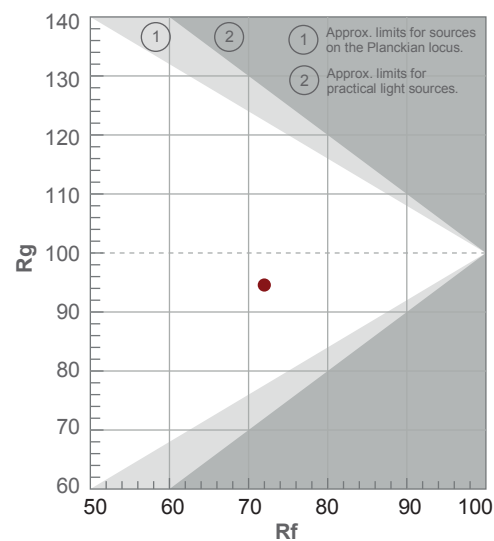
Rf 72.0

Fidelity index Rf

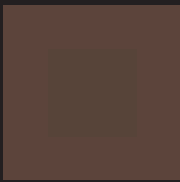
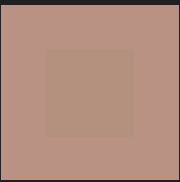
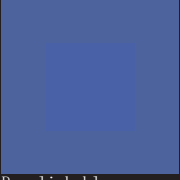
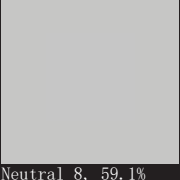
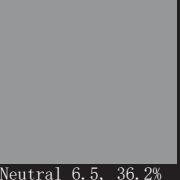
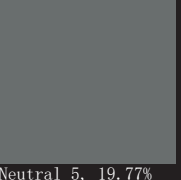
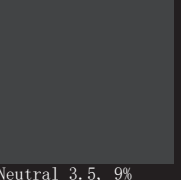
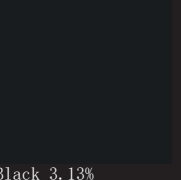
Rg 94.6

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	68	-17%	-3%
2	74	-13%	10%
3	62	-6%	22%
4	66	4%	21%
5	74	11%	12%
6	86	8%	-1%
7	89	-1%	-7%
8	79	-11%	-6%
9	78	-18%	7%
10	55	-14%	24%
11	54	-3%	29%
12	70	5%	20%
13	80	14%	8%
14	77	11%	-5%
15	71	10%	-24%
16	79	-5%	-11%



TLCI-43

					
Dark skin	Light skin	Blue sky	Foliage	Blue flower	Bluish green
					
Orange	Purplish blue	Moderate red	Purple	Yellow green	Orange yellow
					
Blue	Green	Red	Yellow	Magenta	Cyan
					
White 90.01%	Neutral 8, 59.1%	Neutral 6.5, 36.2%	Neutral 5, 19.77%	Neutral 3.5, 9%	Black 3.13%

 DISCLAIMER

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