



The Ayrton Diablo Profile is a high-performance lighting fixture designed for professional lighting applications. It's a 300W profile luminaire that belongs to the Mistral series, known for its compact size and versatility.

Ayrton's latest innovation, Diablo Profile S, is a versatile, feature-rich 300 W profile luminaire based on the ultra-compact Mistral format. The company has taken on the ambitious challenge of making Diablo S the smallest, lightest and most efficient luminaire of its category. With a record output of 19,000 lumens and a total weight of 22 kg, Diablo Profile S is a powerhouse of technology that will tempt the most demanding lighting designers.

★ KEY FEATURES

➤ Output

The Diablo Profile boasts an impressive output of 19,000 lumens. This level of brightness makes it suitable for various lighting design applications, including theatre, concerts, architectural lighting and broadcast.

➤ Weight

Despite its high output, Ayrton has managed to keep the Diablo Profile's weight relatively low at 22 kg. This makes it easier to handle and install, especially in situations where weight constraints are a concern.

➤ Technology

The Diablo Profile is a "powerhouse of technology", it incorporates advanced lighting and control technologies to deliver outstanding performance.

➤ Versatility

Diablo Profile can be used to create focused and controllable beams of light. This makes it suitable for tasks such as spotlighting performers, highlighting specific architectural elements, or adding dramatic effects to a stage or event.

➤ Conscious Engineering

Ayrton's constant goal to maximise efficiency means that Diablo Profile is engineered to provide high brightness with minimal power consumption. This is important for both energy savings and reducing heat output.

➤ Framing System

Ayrton has miniaturized the framing system. Diablo Profile offers precise control over the shape and position of the beam, allowing lighting designers to create intricate and dynamic effects.

TECHNICAL SPECIFICATIONS

SOURCE	
Engine	LED Mono Block, Sealed, White
LED Watts	300 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
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	550 W
Standby Consumption	85 W @ 20°C
Voltage Range	100-240 V 50-60 Hz
Current (Max)	2.4 A @ 230 V / 5 A @ 110 V
Inrush (Half Cycle)	110 V: 10.1 A 230 V: 8.9 A
Total Fixtures per Circuit	6 @ 220/230 V 4 @ 110 V
Connector	PowerCON True1 TOP
Power Supply Unit	Active PFC
Contains Battery	Li-ion 3.7 V Rechargeable

TYPICAL POWER AND CURRENT	
120V , 60Hz	4.18 A, 501.7 W, PF 0.993
208V, 60Hz	2.38 A, 495 W, PF 0.978
230V, 50Hz	2.13 A, 490.8 W, PF 0.970
240V, 50Hz	2.11 A, 506.4 W, PF 0.970

Suitable disclaimer nominal, etc

OPTICAL PERFORMANCE	
Lens Size	119 mm (4.7 in)
Zoom Range	7° to 53°
Zoom Ratio	7.5 : 1
Gate Size	20 mm (0.79 in)

MOVEMENT		
Pan Range	540°/630° (optional)	
Pan Speed (End to End or range)	180°	40 rpm
	360°	40 rpm
	EtoE	40 rpm
Tilt Range	263°	
Tilt Speed (End to End or range)	180°	43 rpm
	EtoE	47 rpm
Resolution	8- or 16-bit	
Calibration Time	43 seconds	
Position Correction System	Yes / Automatic repositioning	
Follow Spot Modes	Tracking system	

COLOUR SYSTEM	
Colour System(s)	CMY, CTO and 7 Colour Wheel
Control	CMY 16-Bit & 8-Bit
CTO	Variable
Variable CTP	No
Colour Wheel	One Wheel. Seven Dichroic plus one open changeable colour (see chart for standard)
Colour Wheel Effects	Continuous Rotation

GOBOS	
Indexing Wheel	1
Indexing Gobos	7 (Glass see load below) + 1 Open
Gobo Diameter (Index)	25.5 mm
Image Diameter (Index)	20 mm
Static Wheel	No
Static Gobos	No
Gobo Diameter (Fix)	N/A
Image Diameter (Fix)	N/A
Gobo Thickness	1.1 to 2.2 mm
Animation Wheel	Yes
Animation Details	Bi-Directional with continuous rotation

TECHNICAL SPECIFICATIONS

PERFORMANCE		
LED engine output (Sphere)		26,500
Fixture Output (Sphere)		19,413 lm (Fan Mode Auto)
		19,502 lm (Fan Mode Stage)
		14,505 lm (Fan Mode Silence)
		11,553 lm (Fan Mode Super Silence)
Fixture Output (Goniometer)		16,414 lm Auto
Field Lumens (Goniometer)	Narrow	9,969 lm
	Middle	16,414 lm
	Wide	16,738 lm
Lumen Per Watt (LPW) Max fixture output / 230 V Typical power		35.3
CCT		8,000 K
Δuv		0.0026
CRI		Ra: 70 (± 2)
With TrueColour™ Filter		> 70
Tm30		Rf: 72 Rg: 92.5
TLCI		47
CQS		68.4

IMAGING	
Framing	4 Blade – 4 Plain
Framing Rotation	+/- 45°
Iris	15 Leaf - 15% to 100% (Open)
Frost	Linear Light 1° (Heavy 5° optional, included)
Effects	▪ Graphic animation effect-wheel with continuous rotation in both directions ▪ 5-facet circular, indexable rotating prism

CONNECTORS	
Power	In/ Thru powerCON True 1
DMX	In/Thru 5 Pin XLR
Network	No
Wireless	DMX Only

CONTROL	
DMX Control	DMX (USITT DMX-512-A) RDM (ANSI/ESTA E1.20)
Transceiver/Receiver	RS-485 with Isolation
DMX Modes	3 + 3 User Modes
Channel Count	Mode 1 Standard – 36 Mode 2 Basic – 34 Mode 3 Extended – 56
DMX Chart	Scan the QR code on page 5
Network Protocols	None
Local Control	Colour LCD Panel Clicking Jog Wheel
Stand Alone Mode	Leader/Follower, presets 250
RDM Functions	Yes
Wireless DMX	CRMX TiMo RDM receiver
E-Sim Ready	No
USB Port	No

THERMAL	
Max Surface Temperature, steady state, at Ta 40°	85°C (185°F)
Max Ambient Temperature (Ta Max)	43°C (113°F)
Min Ambient Temperature (Ta Min)	-10°C (14°F)
Total Heat Dissipation (Calculated +/- 10%)	146.5 BTUs p/h 500 W @ 230 V
Minimum distance to illuminated surface	1.5m (4.91 ft)
Minimum distance to combustible surface	3 m (9.84 ft)
Thermal Protection system	Yes
Cooling modes	See Acoustics
Cooling System	Advanced Liquid Cooling

TECHNICAL SPECIFICATIONS

ACOUSTICS STATIC

Fan Mode	dBA ¹	NC ²
Auto	40.5	32
Stage	41.6	30
Silence/Studio	28.9	17
Super Silence	28.3	18

DYNAMIC

Mode	dBA ¹	NC ²
Auto	43.6	32
Stage	45.4	34
Silence/Studio	41.8	32
Super Silence	42.2	33

1. Measured @ 1m Static, 31dBA ambient

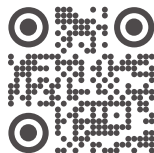
2. Noise Criterion

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

ENVIRONMENTAL

IP Rating	IP 20
Salt Spray Testing	N/A
Estimated embodied carbon including: ▪ A1 – Raw materials of fixture and packaging ▪ A3 – Product manufacturing	228.4 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, Fixed Tails

CONSTRUCTION

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

INCLUDED ITEMS

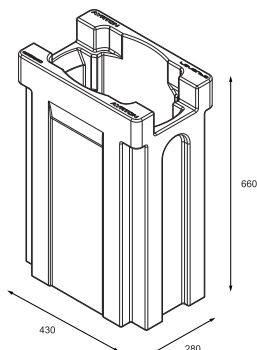
Manual	1
OMEGA brackets with quarter-turn locks	2
Cables	1.5 m powerCON True1 TOP Tails Bared
Other accessories	Gobo's x4 Additional Heavy Frost Option

TECHNICAL SPECIFICATIONS

PHYSICAL

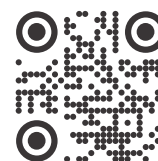
Fixture	
Length	365 mm (14.3 in)
Height	591 mm (23.3 in)
Depth	212 mm (8.4 in)
Weight	22 kg (48.5 lb)
Shipping Dimensions	
Length	445 mm (17.52 in)
Height	750 mm (29.5 in)
Depth	295 mm (11.6 in)
Weight	30.5 kg (68 lb)
In SIP Dimensions	
Length	430 mm (14.4 in)
Height	660 mm (25.9 in)
Depth	280 mm (11 in)
Weight (excl fixture)	8 kg (17.6 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
Substance Regulations	▪ RoHS ▪ REACH ▪ CP65
Declarations	Scan the QR code above

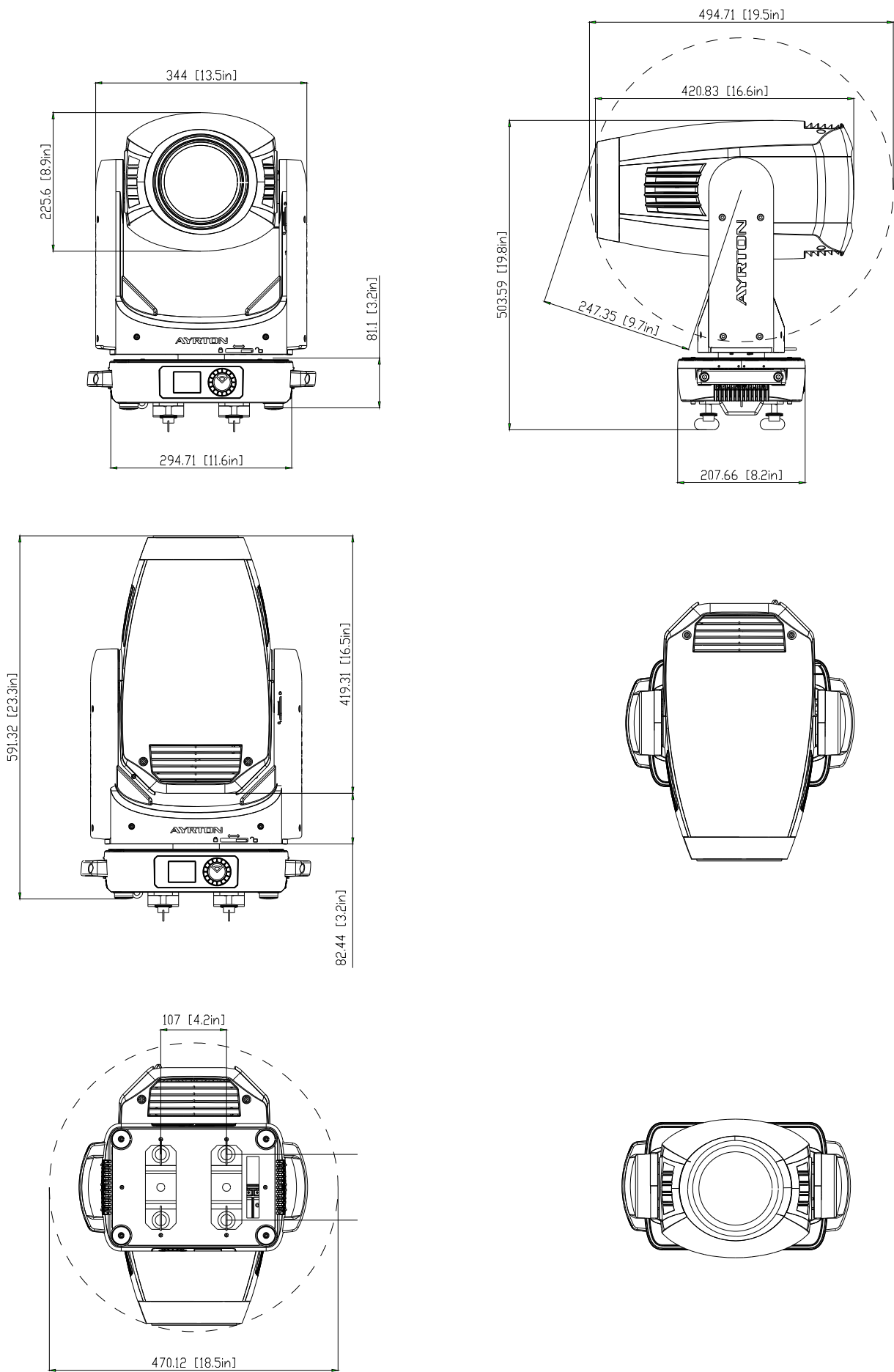
ORDERING DETAILS

Diablo S	011340
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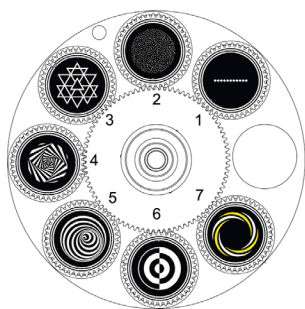
ACCESORIES

Lynx Control	045130
Omega Bracket	GP50501990151C

TECHNICAL SPECIFICATIONS

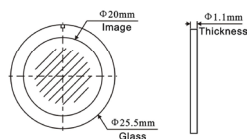


TECHNICAL SPECIFICATIONS

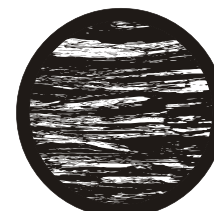
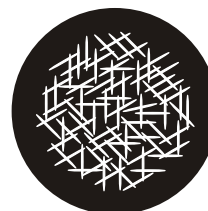
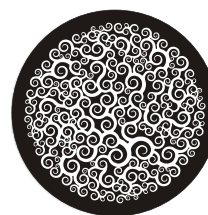
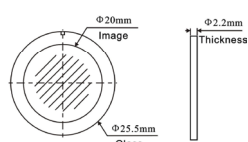


> Dimension/Tolerance/Requirement:

Black & White Gobo:



Color Gobo:



GOBO WHEEL

Rotating Gobo

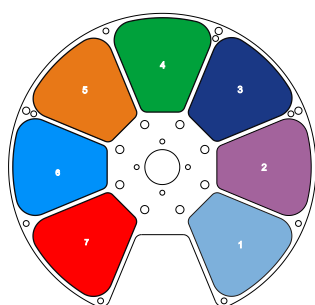
1	130	Dot Line 11	GP60303010903
2	074	Star Dust	GP60303010906
3	018	Nested Triangle	GP60303010905
4	039	Infinite Stairs	GP60303010867
5	134	Vortex	GP60303010904
6	067	Black & White Target	GP60303010926
7	112Y	Nested Rings Yellow	GP60303060055

This side facing LED module

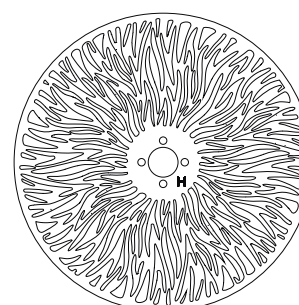
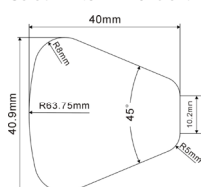
ADDITIONAL GOBOS FOR DIABLO

Included in the package

1	041	Lost In The Brain	GP60303010911
2	049	Smoke Rings	GP60303010909
3	081	Iron Filings	GP60303010932
4	105	Tree Bark	GP60303010915



> Colour Filter Dimension:



COLOUR 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

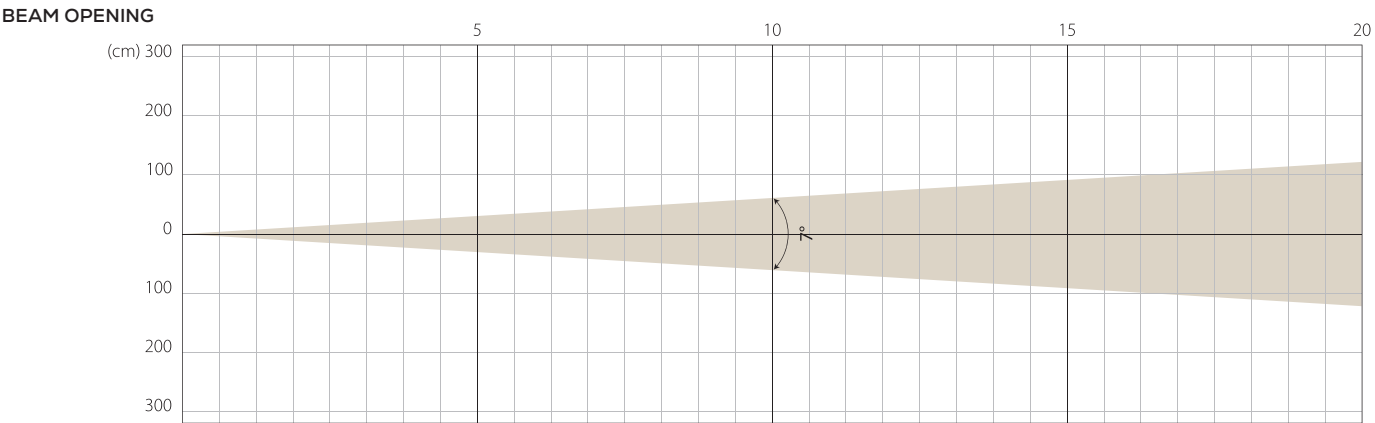
This side facing LED module

ANIMATION WHEEL

-	-	5.04.01.11.0095
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AUTO MODE: PHOTOMETRIC DETAIL

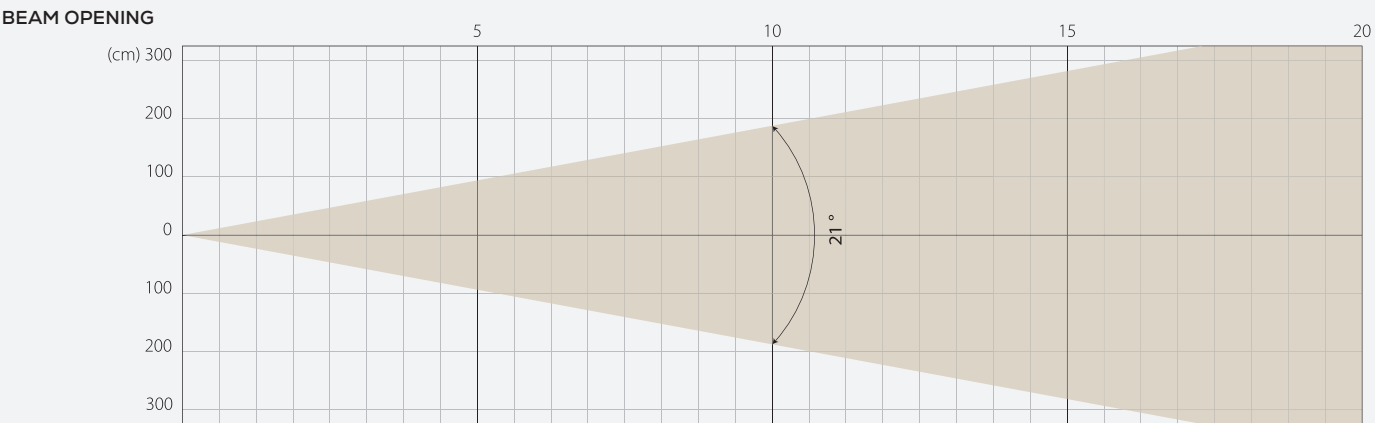
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	36304	0,61	9076	1,22	4034	1,83	2269	2,45

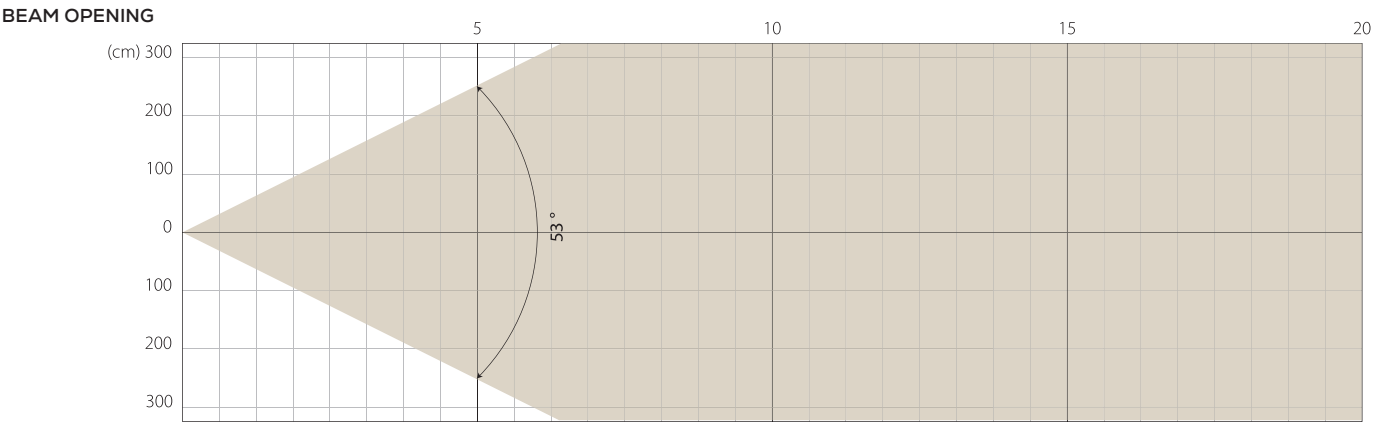
MIDDLE ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	7544	1,85	1886	3,71	838	5,56	471	7,41

MAX ZOOM

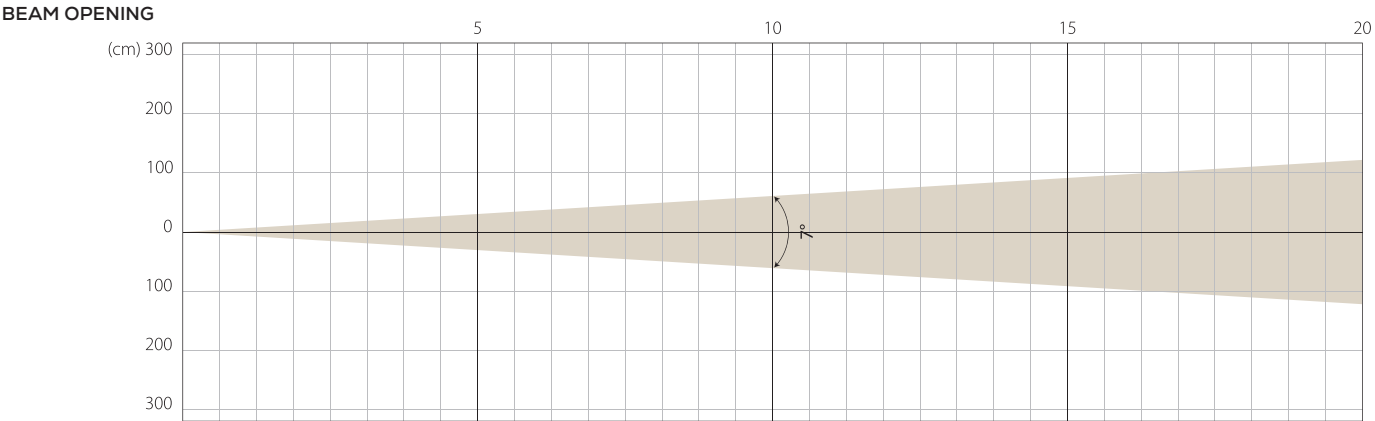


INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	1333	4,99	333	9,97	148	14,96	83	19,94

STAGE MODE: PHOTOMETRIC DETAIL

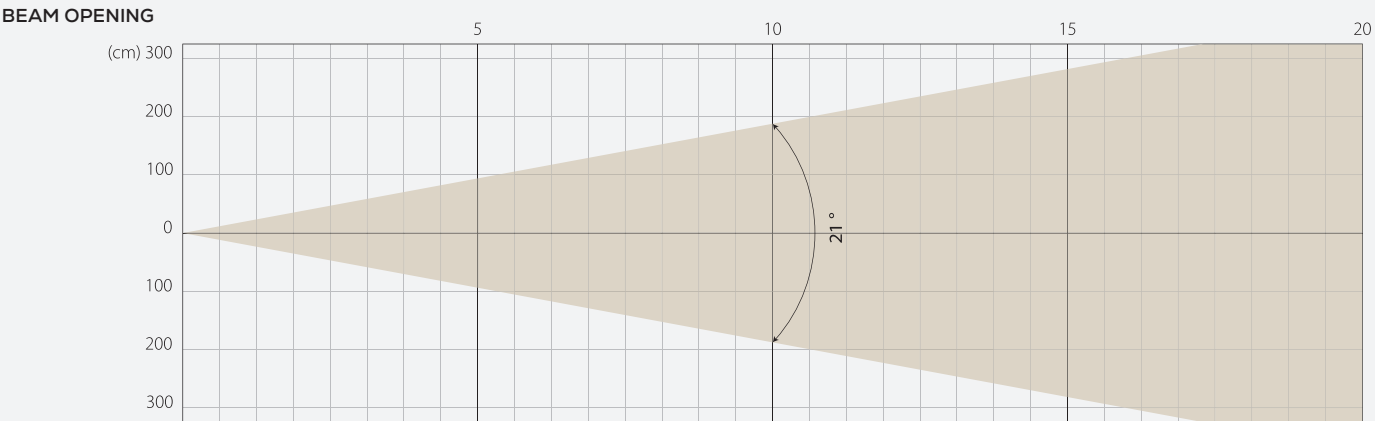
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	37621	0,61	9405	1,22	4180	1,83	2351	2,45

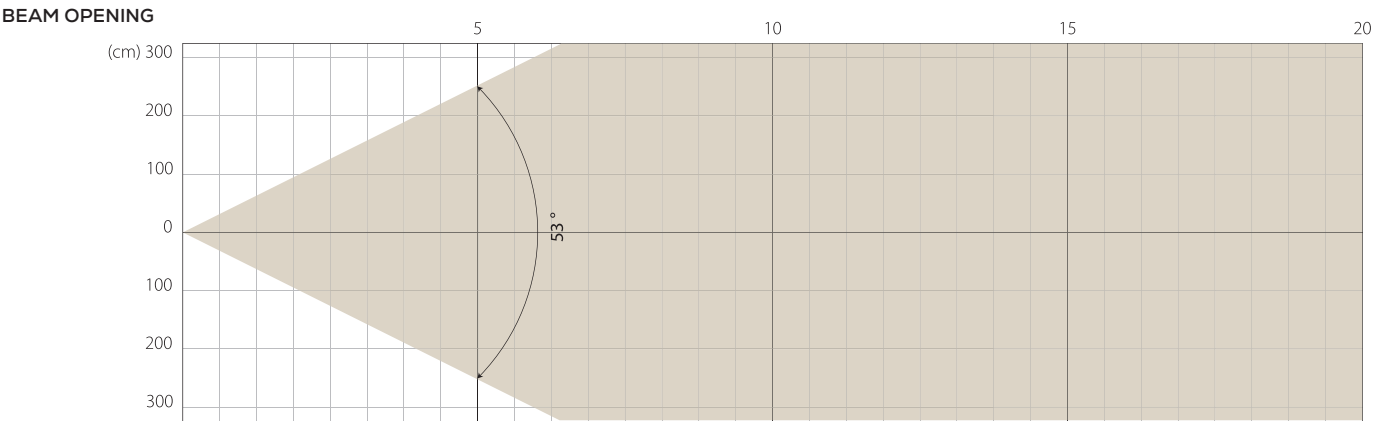
MIDDLE ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	7661	1,85	1915	3,71	851	5,56	479	7,41

MAX ZOOM

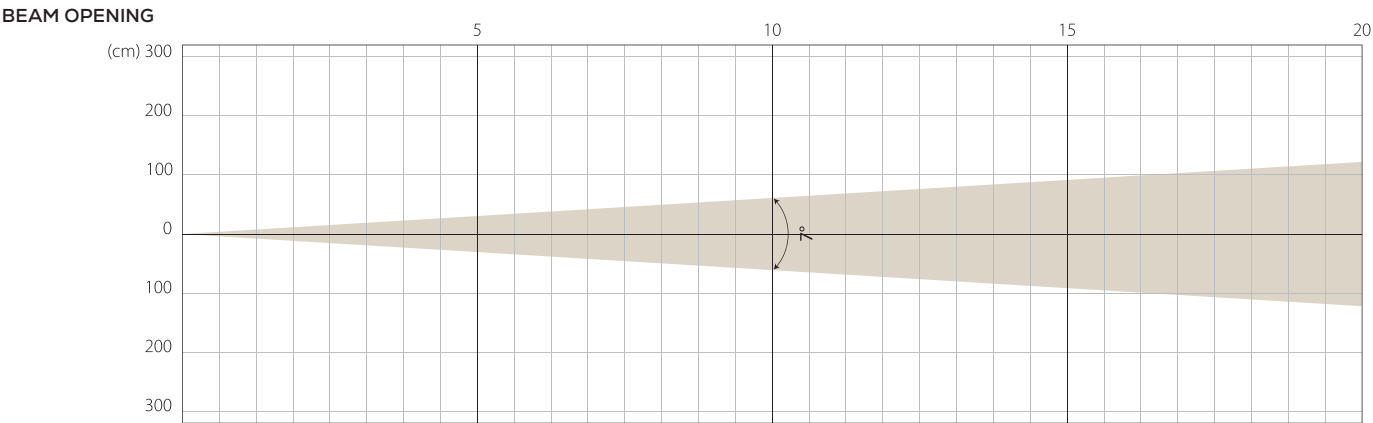


INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	1342	4,99	336	9,97	149	14,96	84	19,94

SILENCE MODE: PHOTOMETRIC DETAIL

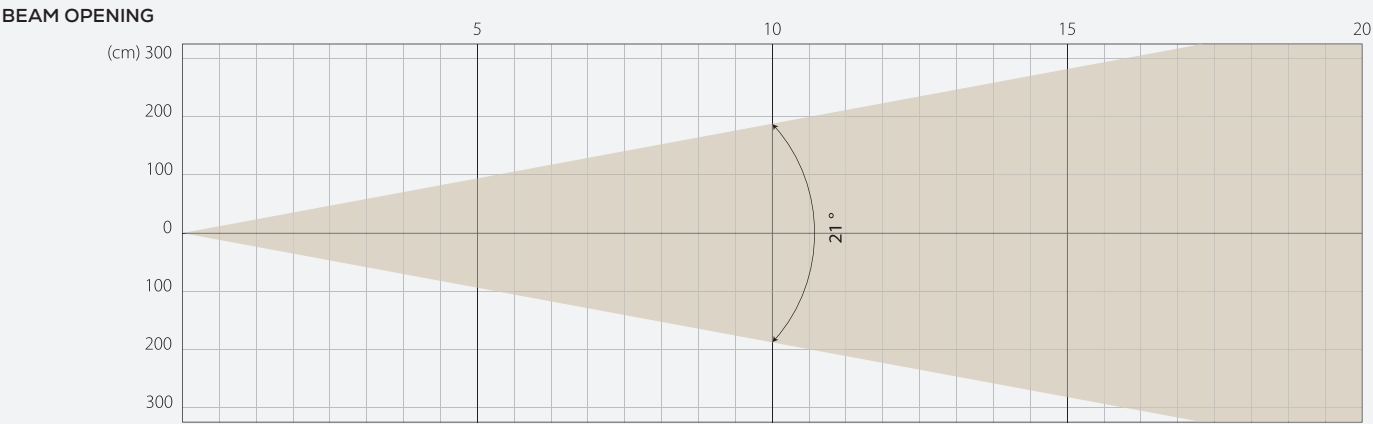
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	23016	0,61	5754	1,22	2557	1,83	1439	2,45

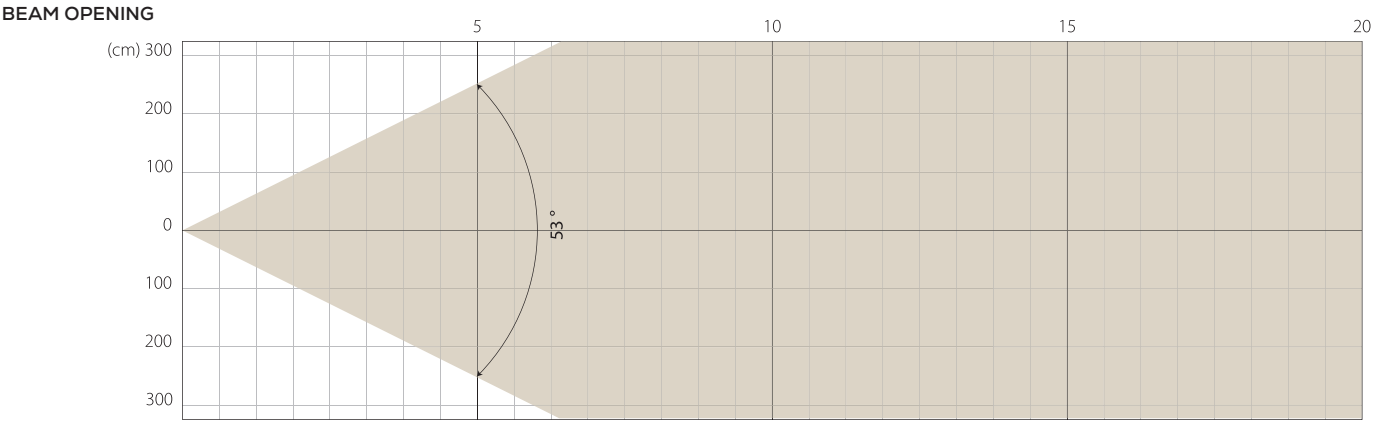
MIDDLE ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	4803	1,85	1201	3,71	534	5,56	300	7,41

MAX ZOOM

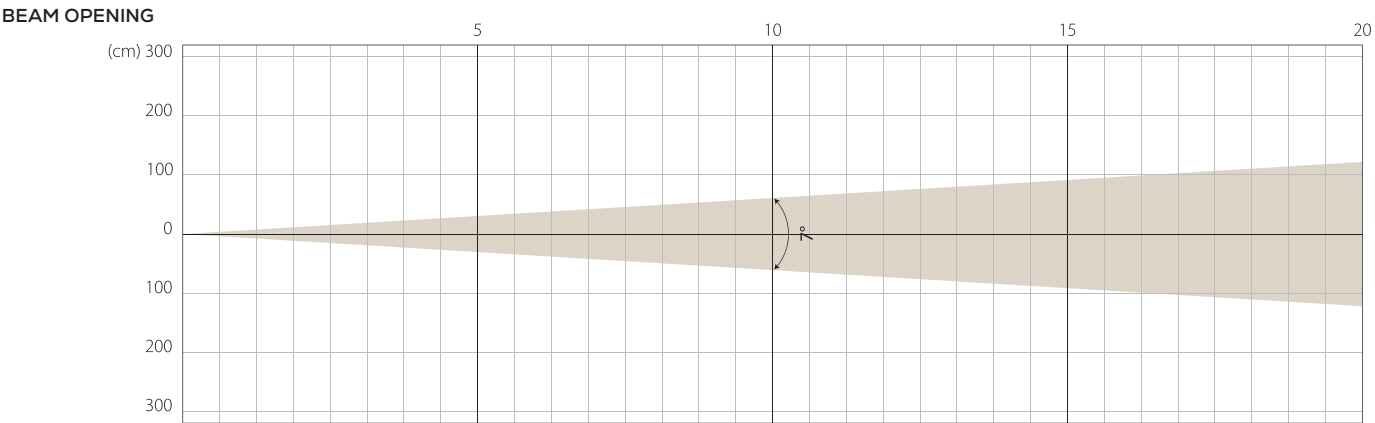


INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	836	4,99	209	9,97	93	14,96	52	19,94

SUPER SILENCE MODE: PHOTOMETRIC DETAIL

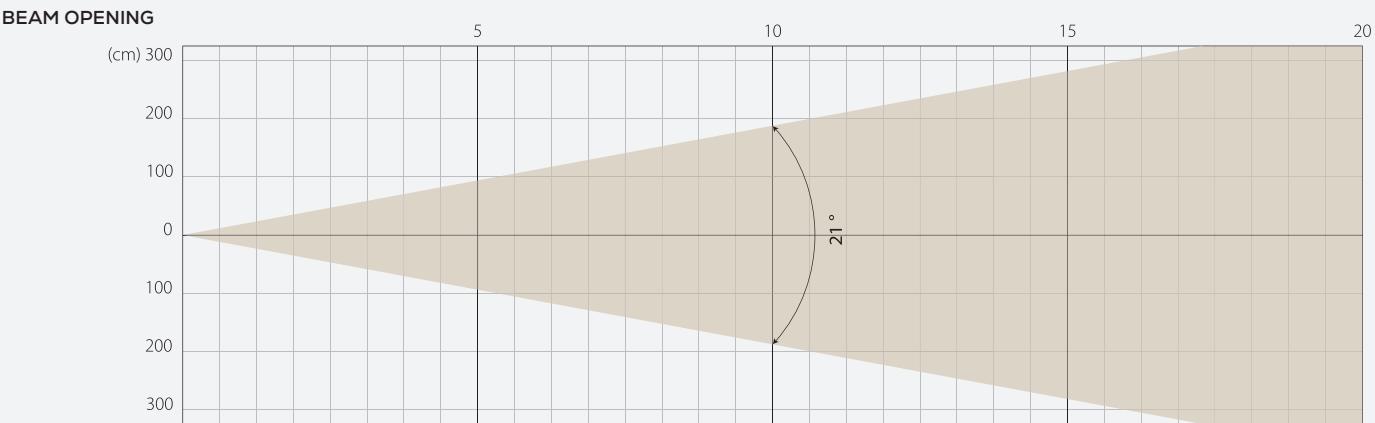
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	21023	0,61	5256	1,22	2336	1,83	1314	2,45

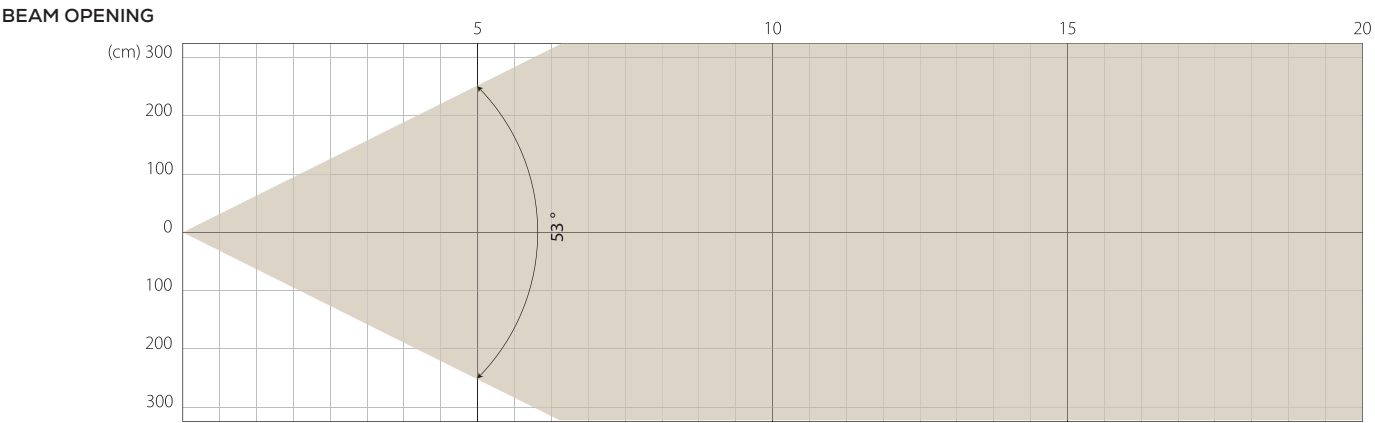
MIDDLE ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	4358	1,85	1089	3,71	484	5,56	272	7,41

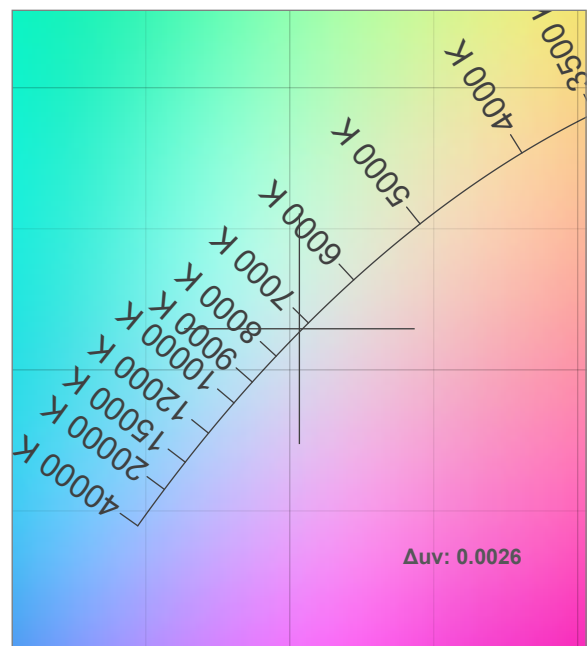
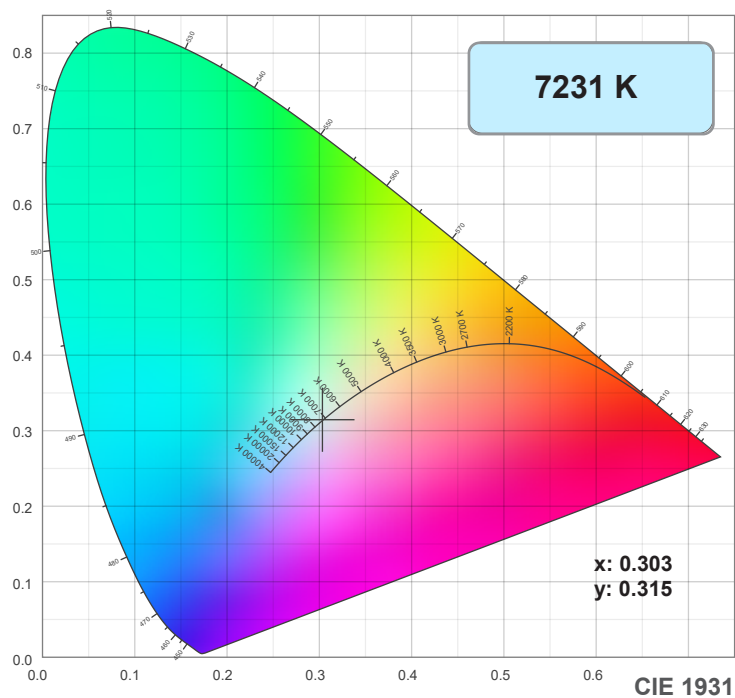
MAX ZOOM



INTENSITY

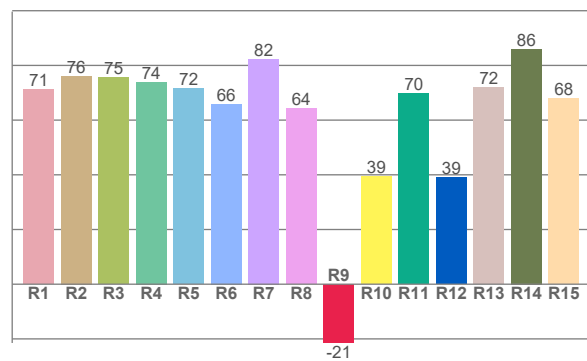
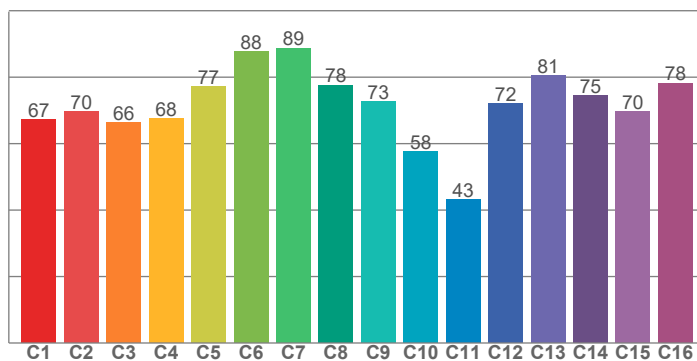
Distance (m)	5		10		15		20	
unit	Lux	Diameter	Lux	Diameter	Lux	Diameter	Lux	Diameter
White	763	4,99	191	9,97	85	14,96	48	19,94

COLOUR PARAMETERS



TM-30: 72.0

CRI: 72.6 (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
71.2	76.1	75.5	73.9	71.5	65.9	82.4	64.2	-21.5	39.5	69.7	39.0	71.9	86.0	67.9

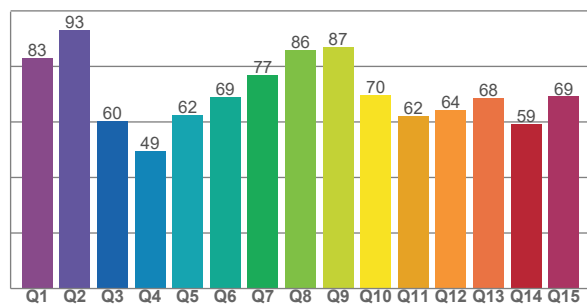
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
67.3	69.8	66.4	67.6	77.2	87.7	88.8	77.6	72.7	57.7	43.1	71.9	80.6	74.5	69.6	78.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83.1	93.1	60.5	49.4	62.4	69.0	76.9	86.0	87.1	69.7	62.1	64.4	68.5	59.3	69.2

CQS: 68.4



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
7231 K	72.6	-21.5	72.0	92.5	68.4	0.303	0.315	0.197	0.306	0.0026

TM-30

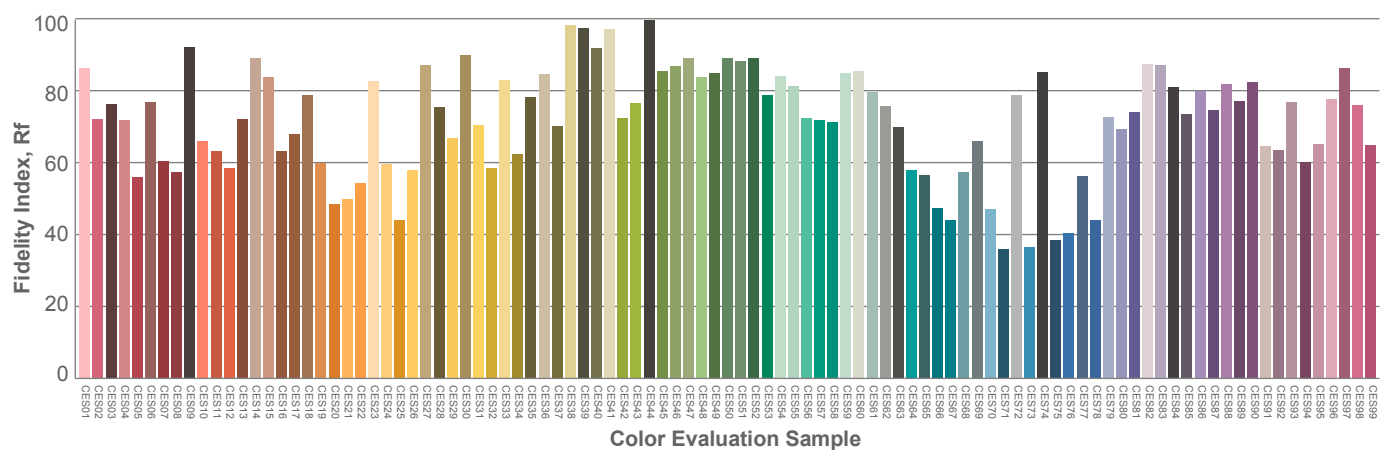
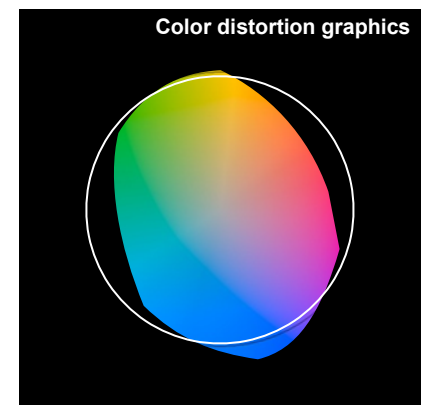
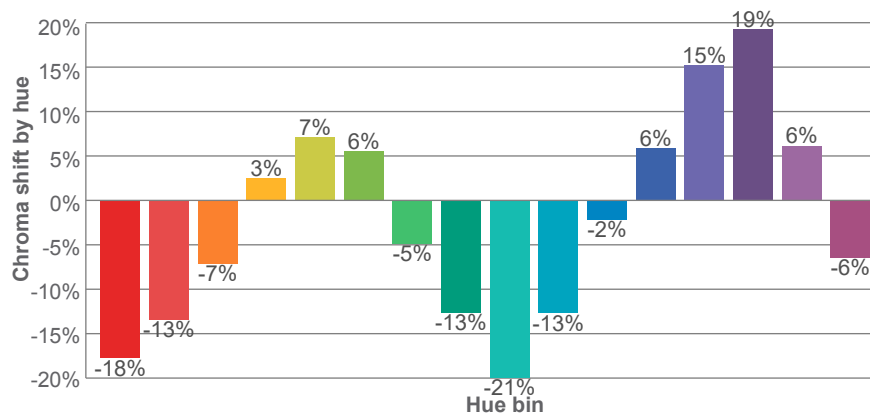
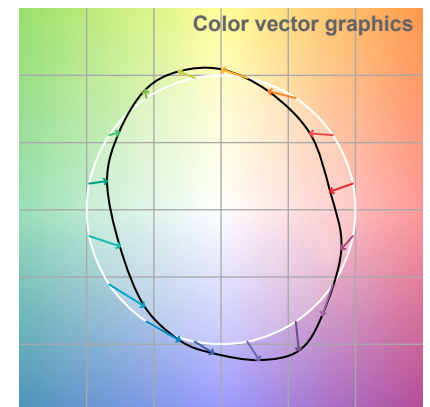
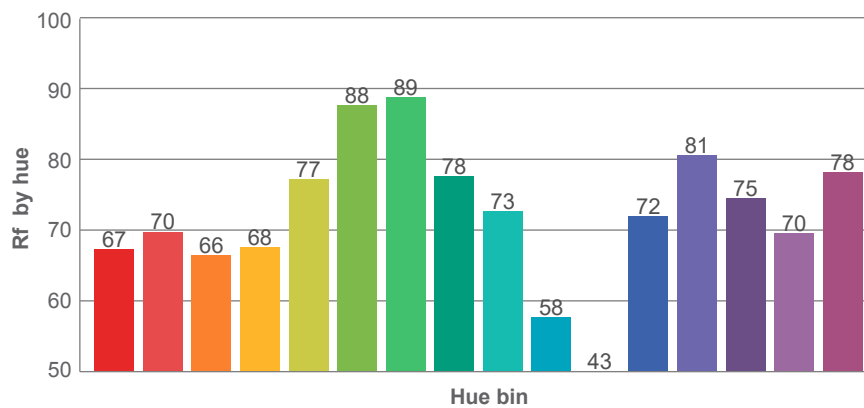
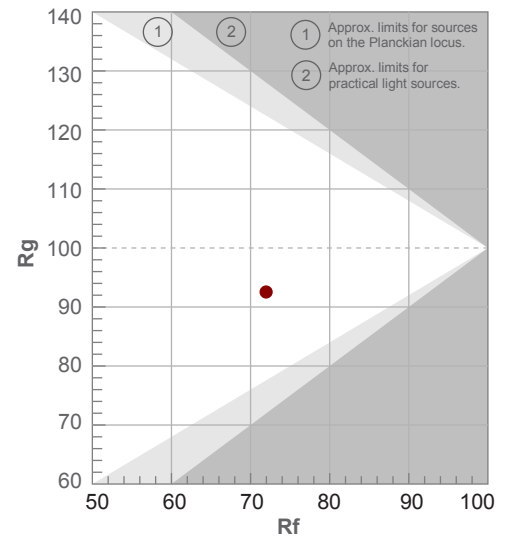
Rf 72.0

Fidelity index Rf

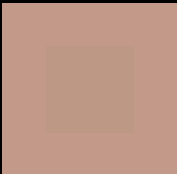
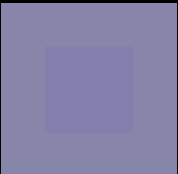
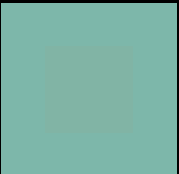
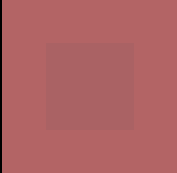
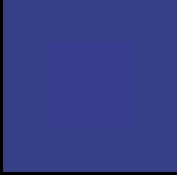
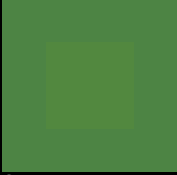
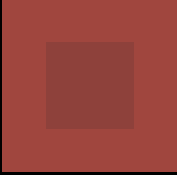
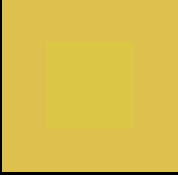
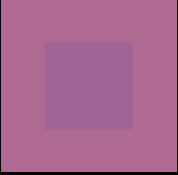
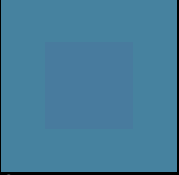
Rg 92.5

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	67	-18%	-3%
2	70	-13%	11%
3	66	-7%	20%
4	68	3%	20%
5	77	7%	11%
6	88	6%	-3%
7	89	-5%	-6%
8	78	-13%	-4%
9	73	-21%	12%
10	58	-13%	28%
11	43	-2%	29%
12	72	6%	15%
13	81	15%	6%
14	75	19%	-10%
15	70	6%	-23%
16	78	-6%	-11%



TLCI-47

					
Dark skin	Light skin	Blue sky	Foliage	Blue flower	Bluis 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.