



Nando 1202 has been designed with one clear priority: quality of light. Every major choice – from the LED engine to the optics, colour control and dimming has been made to create a smoother, more consistent and more refined result

Nando 1202 uses RGB-L colour mixing, combining Red, Green, Blue and Lime. RGB or RGBW can leave gaps in the spectrum, which may make some colours feel less rich or less natural. By adding Lime, Nando 1202 creates better colour balance, smoother mixing, softer pastels, richer saturated colours and a more natural quality of light.

★ KEY FEATURES

➤ Consistent Colour, Fixture to Fixture

For all our additive colour products, we select LEDs from a single bin. This keeps small colour differences between LEDs as low as possible, helping each fixture behave consistently when colour mixing. It is a more expensive choice, but it gives better colour consistency from fixture to fixture, which is especially important when mixing directly with RGB-L.

➤ Calibrated colour Control

Nando 1202 gives users both RGB-L control and a calibrated RGB mode within the same fixture profile, with no need to re-patch. RGB-L gives access to maximum output, while calibrated RGB mode is designed to prioritise colour quality. Additional Tint and CTC controls make it easy to adjust colours and whites greener, pinker, warmer or colder, with calibrated white points from 2500 K to 8000 K.

➤ Beautifully Blended Optics

Nando 1202 uses new CNC-cut light guides, placed directly above the LED chips, to blend colour before it leaves the fixture. As the light reflects inside the guides, the colours fold together into a smoother and more uniform output. Instead of seeing separate red, green, blue or lime elements, the colour is already beautifully mixed before it reaches the main lens.

➤ Clean Beam and Smooth Dimming

The zoom lens has been carefully designed to create a clean, round beam and reduce visible streaks through haze. The anti-reflection front glass gives a clearer view into the lens, reducing unwanted reflections for a cleaner, more premium appearance. Nando 1202 has also been optimised for smooth low-level dimming, slow fades and clean colour transitions, giving designers precise control from subtle looks to bold visual moments.

TECHNICAL SPECIFICATIONS

SOURCE	
Engine	RGB-L High-Power LED
LED Watts	40 W
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	64W @ 20°C
Voltage Range	100-240 V 50-60 Hz
Current (Max)	6.12A @ 230 V / 12.8A @ 120 V
Inrush (Half Cycle)	30 A @ 230 V
Maximum Current available at the output	N/A
Connector	REAN Power X - RRAC3M In/Thru
Power Supply Unit	Active PFC
Contains Battery	N/A

TYPICAL POWER AND CURRENT	
120V , 60Hz	10.77A, 1282W, PF 0.992
208V, 60Hz	6.152A, 1252W, PF 0.977
230V, 50Hz	5.6A, 1248W, PF 0.970
240V, 50Hz	5.378A, 1247W, PF 0.966

Suitable disclaimer nominal, etc

OPTICAL PERFORMANCE	
Lens Size	303 mm (10.63 in)
Zoom Range	3.5° to 53°
Zoom Ratio	15:1
Gate Size	N/A

MOVEMENT		
Pan Range	540° / 630° optional	
Pan Speed (End to End or range)	180°	146 rpm
	360°	249.2 rpm
	EtoE	355 rpm
Tilt Range	225°	
Tilt Speed (End to End or range)	180°	104.2 rpm
	EtoE	121 rpm
Resolution	8- or 16-bit	
Calibration Time	27.5 sec	
Position Correction System	Yes / Automatic repositioning	
Follow Spot Modes	Tracking system	

COLOUR SYSTEM	
Colour System(s)	RGB-L with 4.29 billions colours
Control	RGB-L 8-bit
CTC	Virtual, from 2500 to 8000 K
Variable CTP	Virtual tint channel, +/- green
Colour Wheel	Virtual colour wheel
Colour Wheel Effects	N/A

GOBOS	
Indexing Wheel	N/A
Indexing Gobos	N/A
Gobo Diameter (Index)	N/A
Image Diameter (Index)	N/A
Static Wheel	N/A
Static Gobos	N/A
Gobo Diameter (Fix)	N/A
Image Diameter (Fix)	N/A
Gobo Thickness	N/A
Animation Wheel	N/A
Animation Details	N/A

TECHNICAL SPECIFICATIONS

PERFORMANCE		
LED board out (Sphere)		33,000 lm
Fixture Output (Sphere)		24,000 lm (Fan Mode Auto)
		25,000 lm (Fan Mode Stage)
		18,400 lm (Fan Mode Silence)
		12,300 lm (Fan Mode Super Silence)
Fixture Output (Goniometer) balanced white		16,000 lm
Field Lumens (Goniometer)	Narrow	12,000 lm
	Middle	N/A
	Wide	19,500 lm
Lumen Per Watt (LPW) Max fixture output / 230 V Typical power		15.62 lm/W
CCT balanced white		2500 to 8000 K
Δ uv balanced white		+/- 0,001
CRI balanced white		83 at 6500 K
With TrueColour Enhancer™ Filter		N/A
Tm30 balanced white		Rf: 82 Rg: 107.5
TLCI balanced white		81
CQS balanced white		85.2

IMAGING	
Framing	N/A
Framing Rotation	N/A
Iris	N/A
Frost	N/A
Effect	2D & 3D graphical effects capabilities - Effects can be coupled with beam, wash or matrix applications - Built-in pattern effects with speed and fade controls for scenic applications - Individual control of each pixels

CONNECTORS	
Power	REAN Power X - RRAC3M In/Thru
DMX	IP65 In/Thru 5 Pin XLR
Network	IP65 In/Thru RJ45 + one for further uses
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	Basic Mode/Stand Mode/Extend Ring/ Extend Pixel
Channel Count	26/37/50/150
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°	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%)	4258 BTU/h 1248 W @ 230 V
Minimum distance to illuminated surface	2 m (6.56 ft)
Minimum distance to combustible surface	5 m (16.40 ft)
Thermal Protection system	Yes
Cooling Modes	See Acoustics
Cooling System	Advanced Liquid Cooling IP68 Self adjusting Variable speed fans

TECHNICAL SPECIFICATIONS

ACOUSTICS STATIC

Fan Mode	dBA ¹	NC ²
Auto	43,2	32
Stage	47,5	39
Silence/Studio	38,4	26
Super Silence	30,7	18

DYNAMIC

Mode	dBA ¹	NC ²
Auto	51,8	37
Stage	53	38
Silence/Studio	52,2	36
Super Silence	49,2	35

1. Measured @ 1m Static, 10 dBA ambient

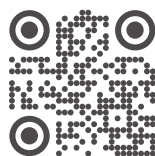
2. Noise Criterion

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

ENVIRONMENTAL

IP Rating	IP 65
Salt Spray Testing	Pending
Estimated embodied carbon including: - A1 - Raw materials of fixture and packaging - A3 - Product manufacturing	TBA
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	2 years

From date of invoice

INSTALLATION

Orientation	Any
Mounting attachments	- Fastening brackets system: two Omega 1/4 turn brackets designed for use with standard clamps - Mounting points: four 1/4 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 - Arms and head in self-extinguishing fire retardant ABS PC (VO class) - Two-side handles for transportation - Four heavy-duty feet for better stability

INCLUDED ITEMS

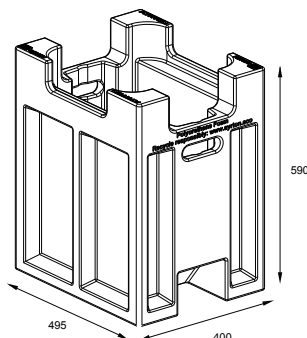
Manual	1
OMEGA brackets with quarter-turn locks	2
Cables	- IP65: 1 cable PowerCON True1 TOP to bare end, 1.5m - IP66: DMX IN / OUT tails to bare end for IP66 DMX connection - Ethernet IN / OUT tails to bare end for IP66 ArtNet™ connection - Power tail to bare end for IP66 power connection
Other accessories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

TECHNICAL SPECIFICATIONS

PHYSICAL

Fixture / IP65 / IP66	
Length	446 mm (17.56 in)
Height	562 mm (22.13 in)
Depth	356 mm (14.01 in)
Weight	27.6 kg (60.85 lb)
Shipping Dimensions	
Length	505 mm (19.88 in)
Height	665 mm (26.18 in)
Depth	410 mm (16.14 in)
Weight	37.1 kg (81.57 lb)
In SIP Dimensions	
Length	495 mm (19.48 in)
Height	590 mm (23.23 in)
Depth	400 mm (15.75 in)
Weight (excl fixture)	9.5 (20.94 lb)

SIP Drawing



SUPPORTING DOCUMENTS

Manual
GDTF Profile
GMA Profile
IES FILE
DMX Chart
Photometric File
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: 2021
Substance Regulations	▪ RoHS ▪ REACH ▪ CP65
Declarations	Scan the QR code above

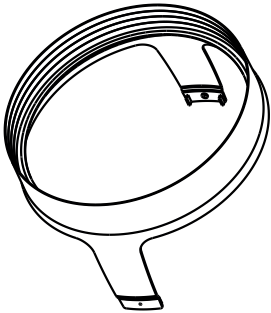
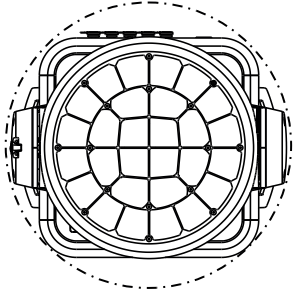
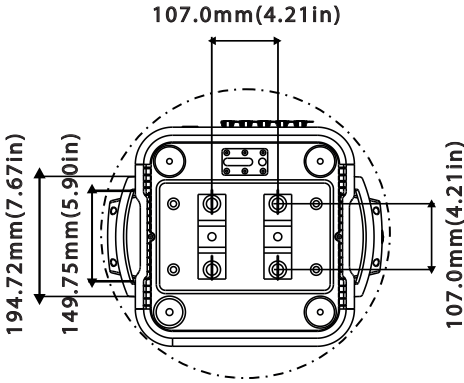
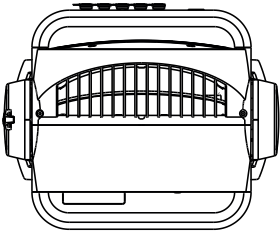
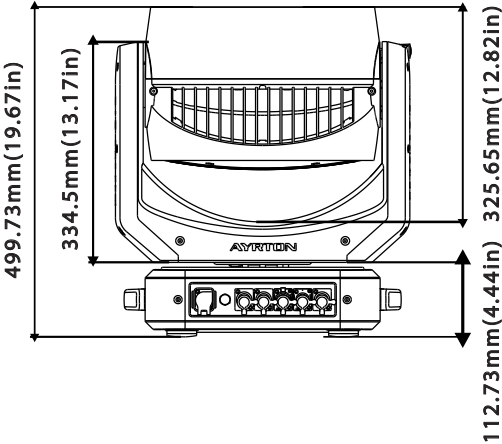
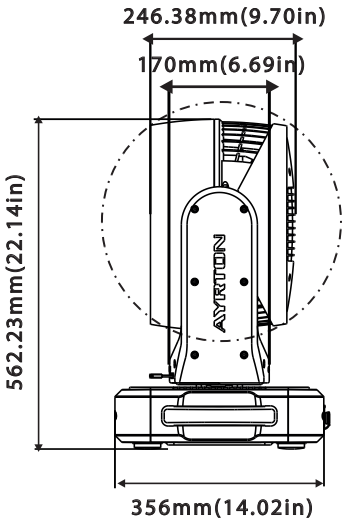
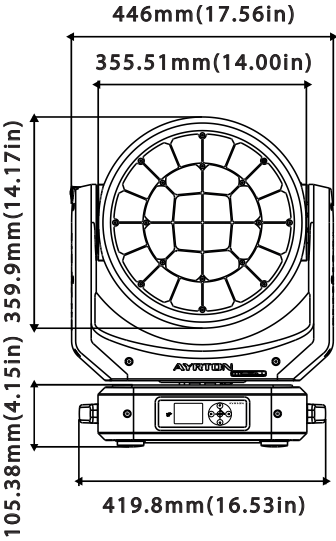
ORDERING DETAILS

Nando 1202 Wash	013920
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ACCESORIES

IP Test Kit	048250
Lynx Control	045130
Top Hat	GPC0002435S0

TECHNICAL SPECIFICATIONS



ACCESSORIES

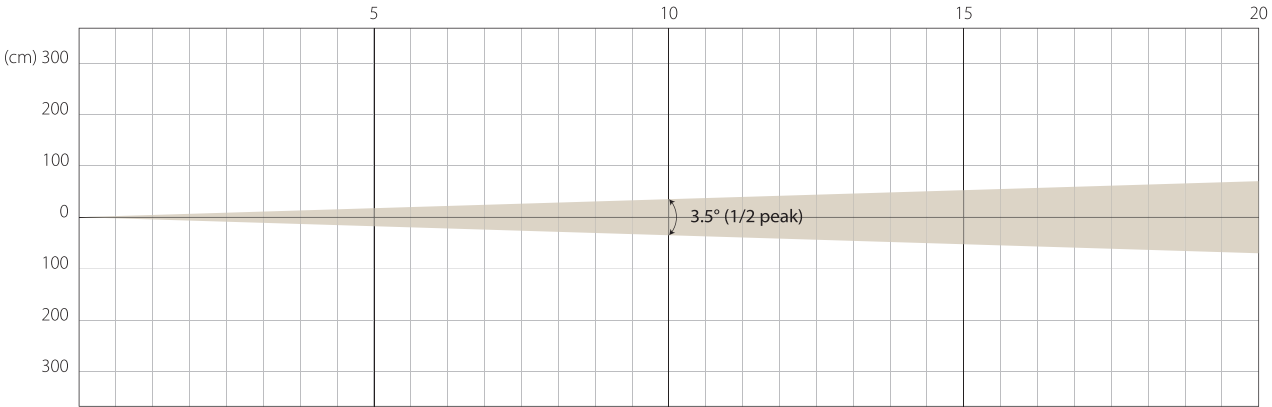
Top Hat

GPC0002435S0

AUTO MODE: PHOTOMETRIC DETAIL

MIN ZOOM

BEAM OPENING

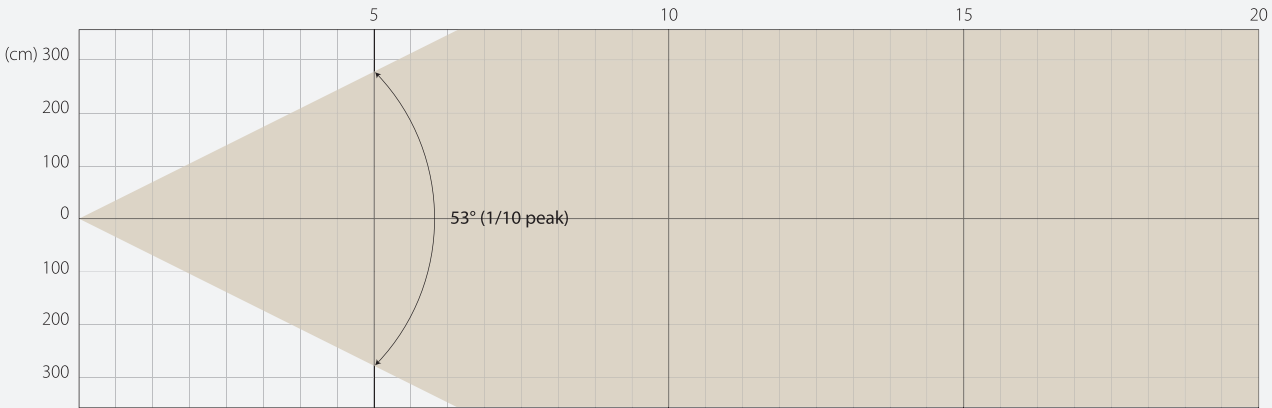


INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	17691	0.35	4423	0.7	1966	1.05	1106	1.4
Green	43230	"	10808	"	4803	"	2702	"
Blue	9056	"	2264	"	1006	"	566	"
Lime	53726	"	13431	"	5970	"	3358	"
RGB-L	103497	"	25874	"	11500	"	6469	"

MAX ZOOM

BEAM OPENING



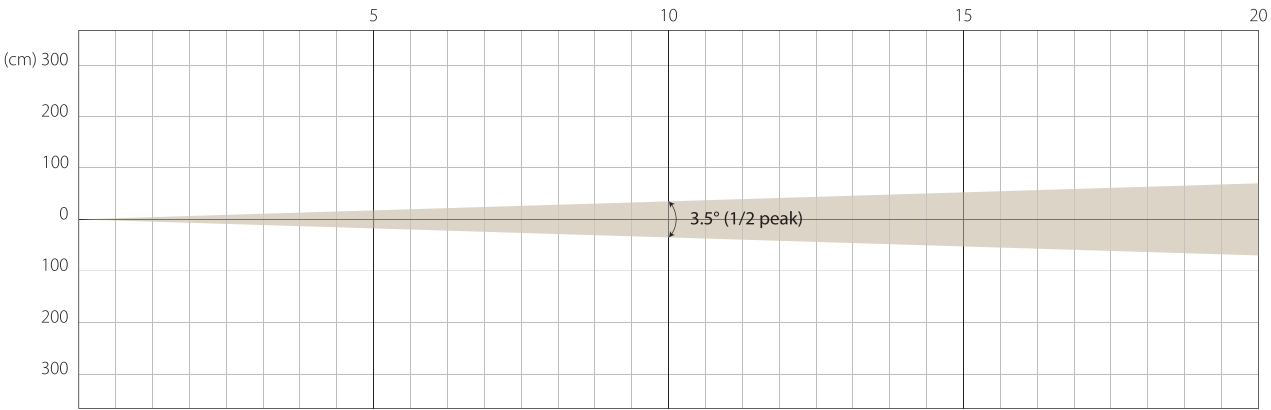
INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	408	5.54	102	11.09	45	16.63	26	22.17
Green	1051	"	263	"	117	"	66	"
Blue	220	"	55	"	24	"	14	"
Lime	1207	"	302	"	134	"	75	"
RGB-L	2476	"	619	"	275	"	155	"

STAGE MODE: PHOTOMETRIC DETAIL

MIN ZOOM

BEAM OPENING

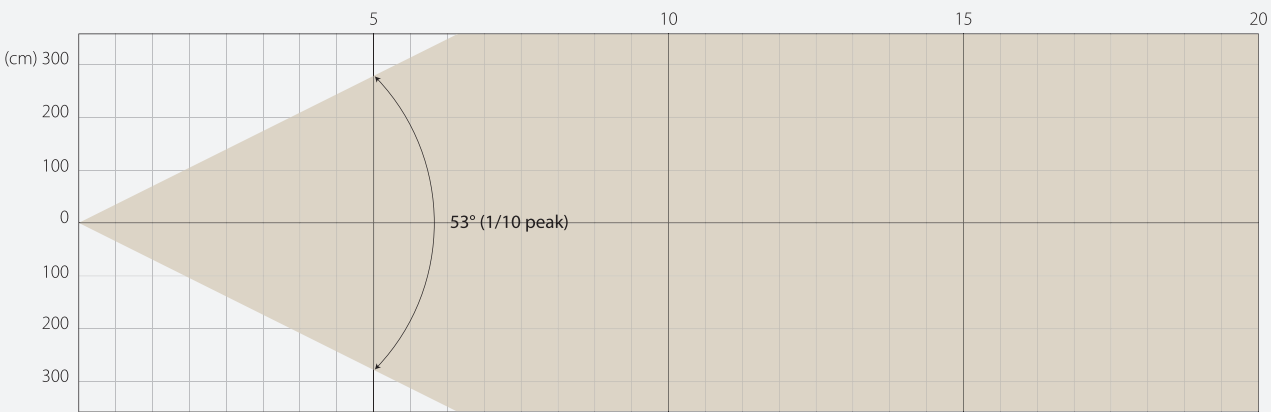


INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	18298	0.35	4574	0.7	2033	1.05	1144	1.4
Green	43502	"	10876	"	4834	"	2719	"
Blue	9078	"	2269	"	1009	"	567	"
Lime	53949	"	13487	"	5994	"	3372	"
RGB-L	108364	"	27091	"	12040	"	6773	"

MAX ZOOM

BEAM OPENING



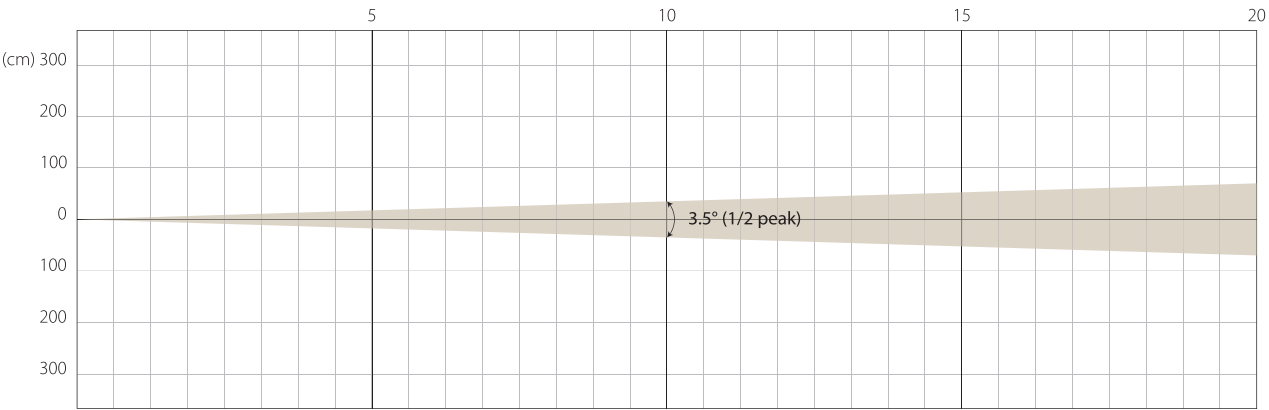
INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	437	5.54	109	11.09	49	16.63	27	22.17
Green	1053	"	263	"	117	"	66	"
Blue	225	"	56	"	25	"	14	"
Lime	1199	"	300	"	133	"	75	"
RGB-L	2589	"	647	"	288	"	162	"

SILENCE MODE: PHOTOMETRIC DETAIL

MIN ZOOM

BEAM OPENING

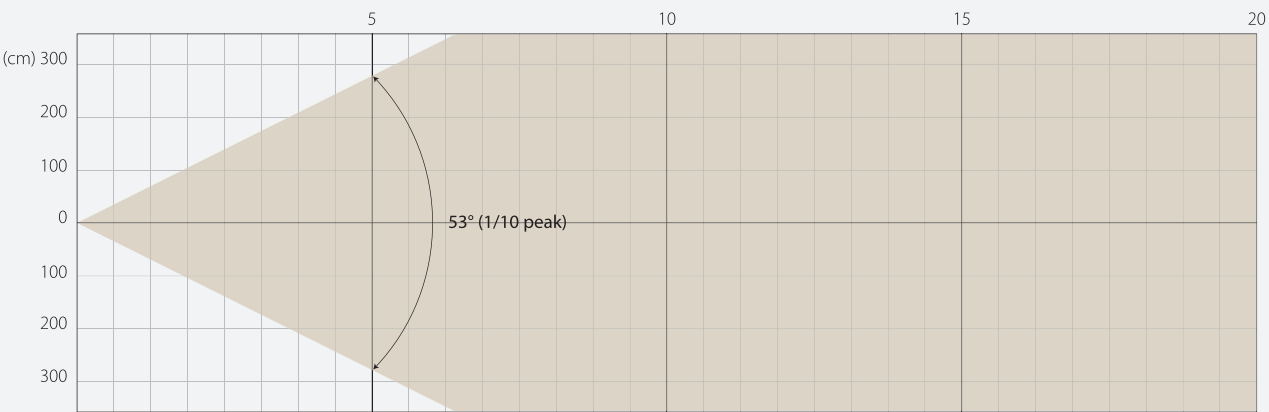


INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	14378	0.35	3595	0.7	1598	1.05	899	1.4
Green	31241	"	7810	"	3471	"	1953	"
Blue	6449	"	1612	"	717	"	403	"
Lime	39117	"	9779	"	4346	"	2445	"
RGB-L	79643	"	19911	"	8849	"	4978	"

MAX ZOOM

BEAM OPENING

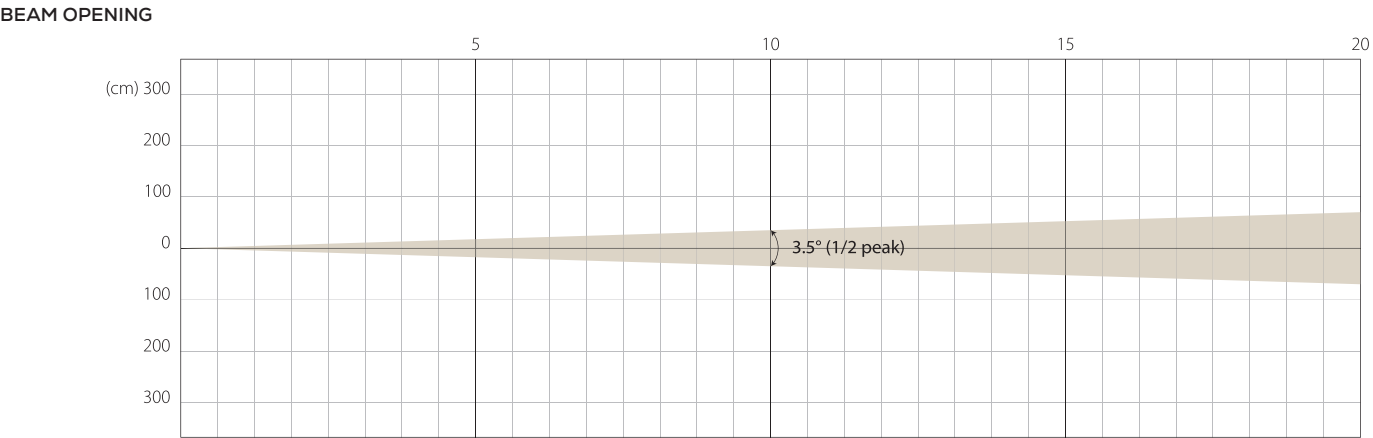


INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	326	5.54	82	11.09	36	16.63	20	22.17
Green	757	"	189	"	84	"	47	"
Blue	157	"	39	"	17	"	10	"
Lime	880	"	220	"	98	"	55	"
RGB-L	1893	"	473	"	210	"	118	"

SUPER SILENCE MODE: PHOTOMETRIC DETAIL

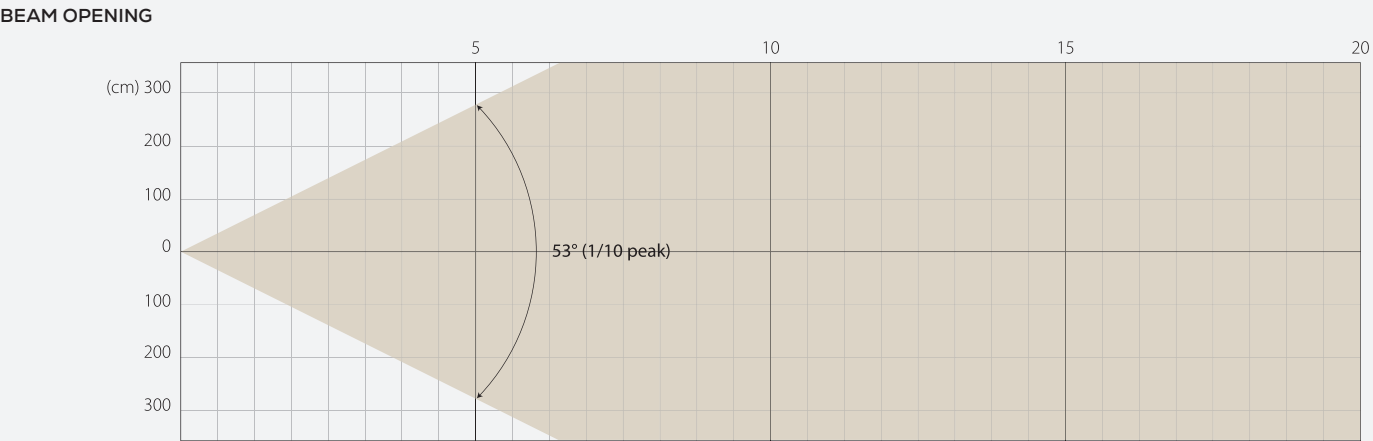
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	10086	0.35	2521	0.7	1121	1.05	630	1.4
Green	20081	"	5020	"	2231	"	1255	"
Blue	4102	"	1025	"	456	"	256	"
Lime	25121	"	6280	"	2791	"	1570	"
RGB-L	52767	"	13192	"	5863	"	3298	"

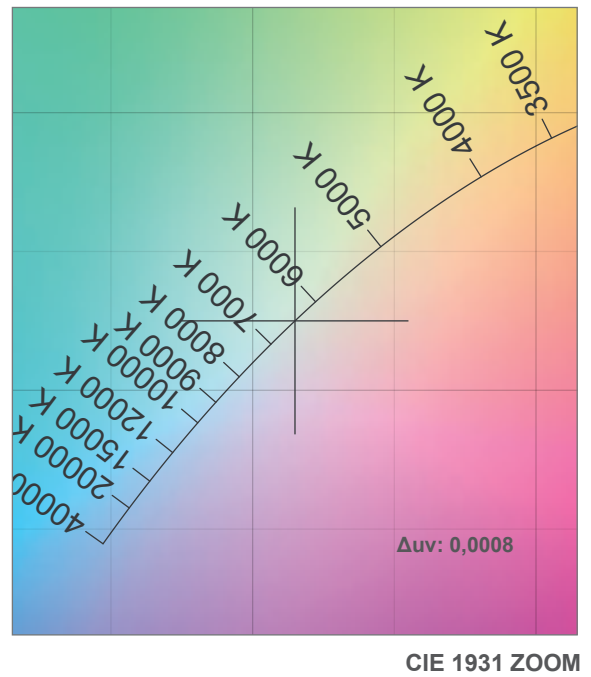
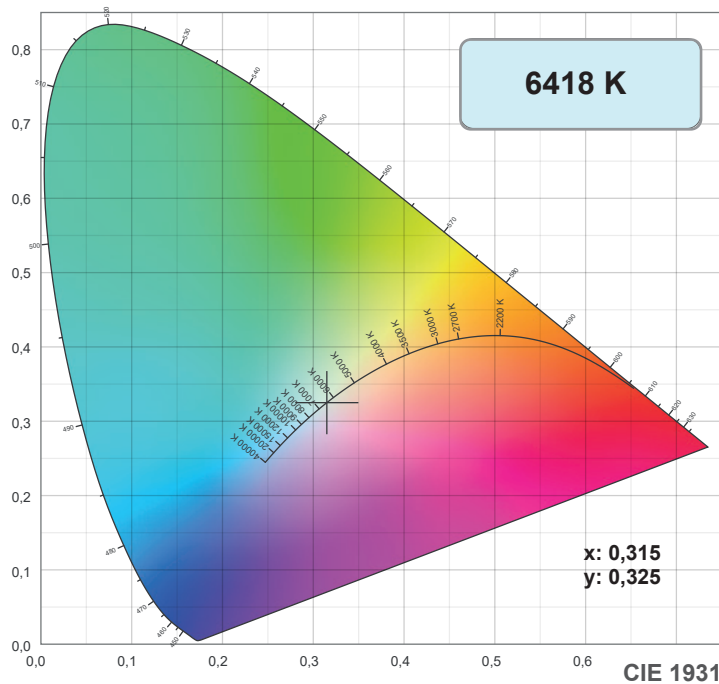
MAX ZOOM



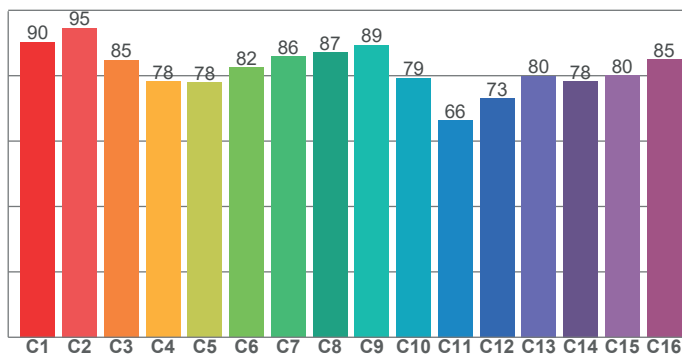
INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
Red	242	5,54	61	11,09	27	16,63	15	22,17
Green	489	"	122	"	54	"	31	"
Blue	100	"	25	"	11	"	6	"
Lime	565	"	141	"	63	"	35	"
RGB-L	1250	"	313	"	139	"	78	"

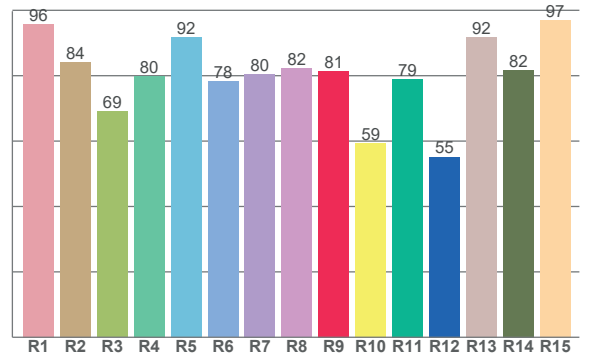
COLOUR PARAMETERS - BALANCED WHITE



TM-30: 82,0



CRI: 82,7 (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
95,8	84,2	69,1	79,9	91,8	78,3	80,4	82,1	81,4	59,4	79,0	55,2	91,9	81,7	97,1

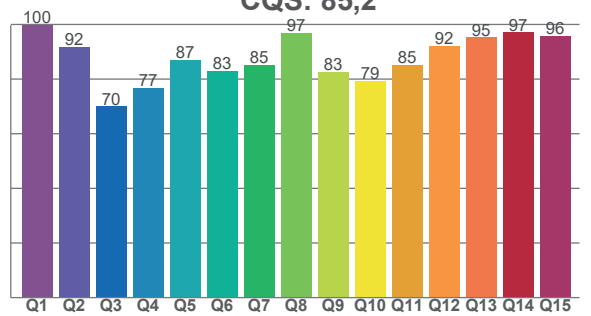
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,3	94,6	84,9	78,2	78,0	82,4	85,8	87,1	89,4	79,3	66,4	73,0	79,9	78,3	80,0	84,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,7	91,7	70,0	76,7	87,0	82,8	85,1	97,0	82,7	79,2	85,0	92,0	95,3	97,1	95,8

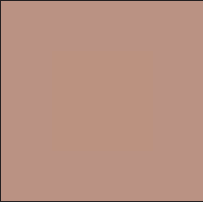
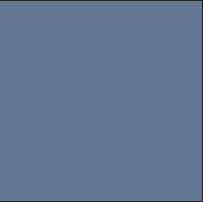
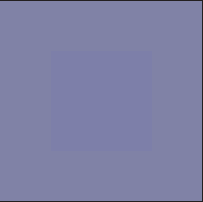
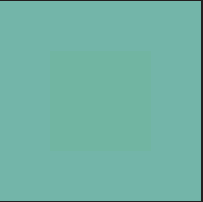
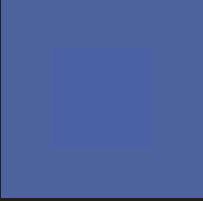
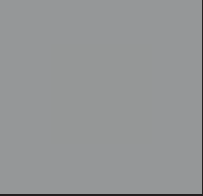
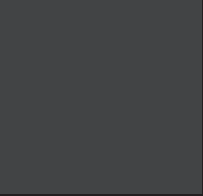
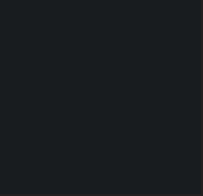
CQS: 85,2



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
6418 K	82,7	81,4	82,0	107,5	85,2	0,315	0,325	0,201	0,311	0,0008

TLCI-81

					
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.