



COBRA²

PHOTOMETRY



AYRTON
Digital Lighting



Total Flux	8621 lm (@zoom 128, Goniometer measurement, Fan mode stage)
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CCT @ light source engine	9000 K(±500 K)
CCT @ open	6500 K (±500 K)
Ra @ open	65 (±2)
TLCI	36
TM-30	Rf: 62 Rg: 86

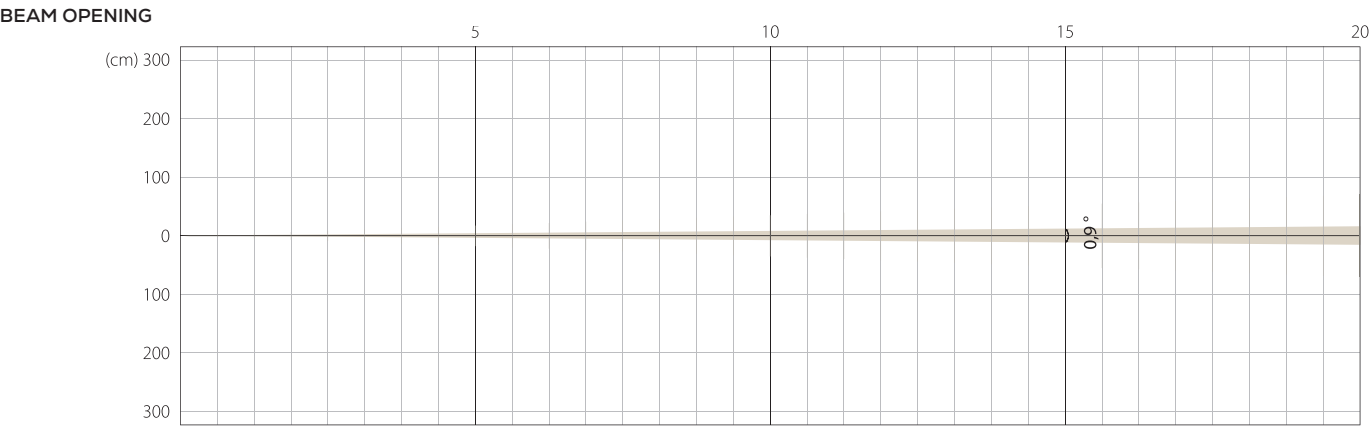
Fan Mode	Noise Level (dBA)	by Goniometer (lm @ zoom 128)
Auto	44.6	8,621
Stage	51.3	8,684
Silence	38.9	6,918
Super Silence	33.8	4,687

Note: noise measured @1m distance, static status, ambient 31 dBA.

Voltage / Power	100-240V, 50-60Hz	480 W
Fixture Dimension / Weight	360 x 674 x 319 mm	30.7 kg
Packing Dimension / Weight	565 x 650 x 500 mm	43 kg

AUTO MODE | NATIVE CRI GREATER THAN 65

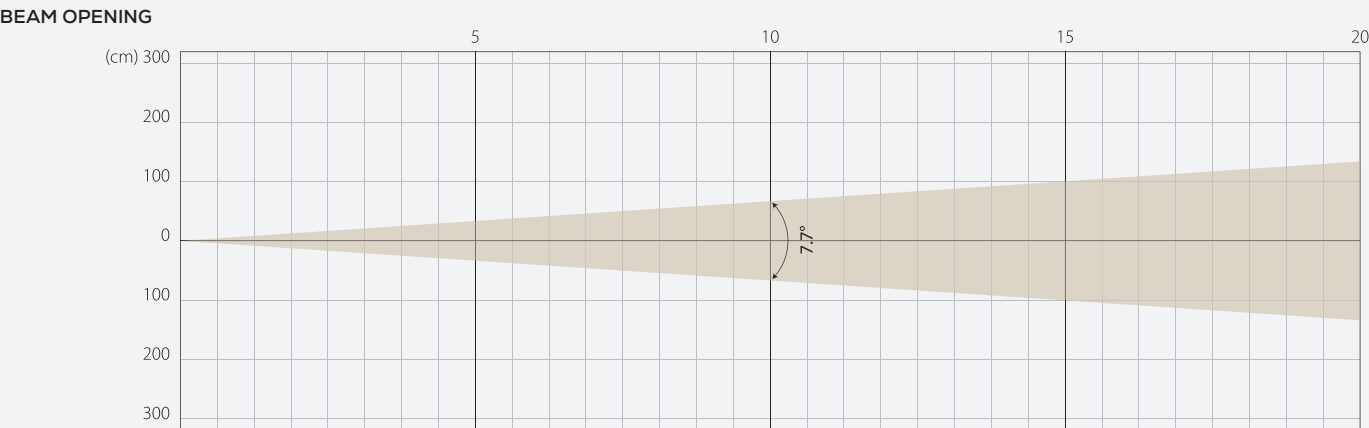
MIN ZOOM



INTENSITY

Distance (m)	5		10		15		20		30		50		100	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter	lux	diameter	lux	diameter	lux	diameter
White	5804800	0,08	1451200	0,16	645000	0,24	362800	0,31	161200	0,47	58048	0,79	14512	1,57

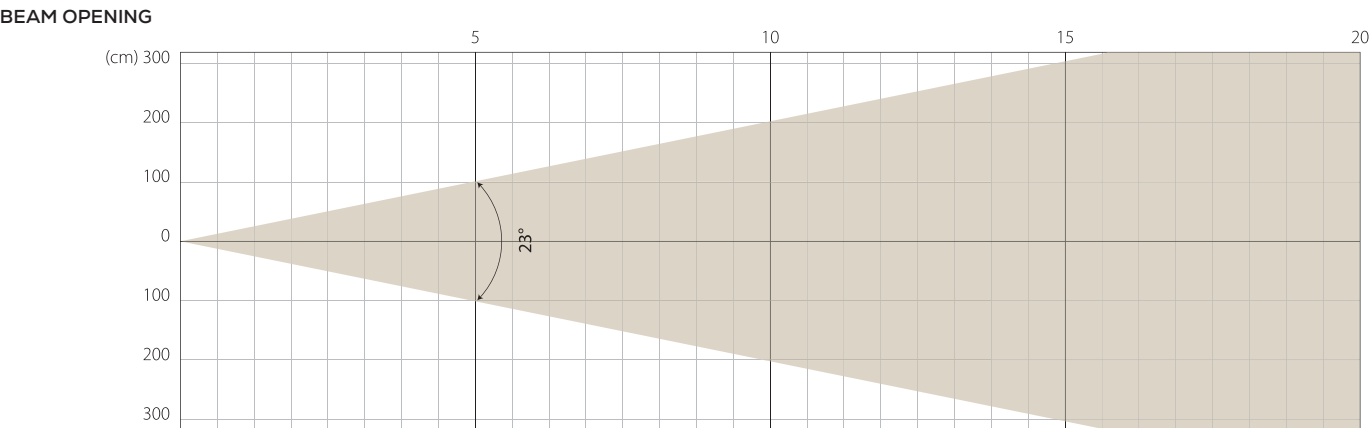
MIDDLE ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
White	61496	0,67	15374	1,35	6833	2,02	3843	2,69

MAX ZOOM



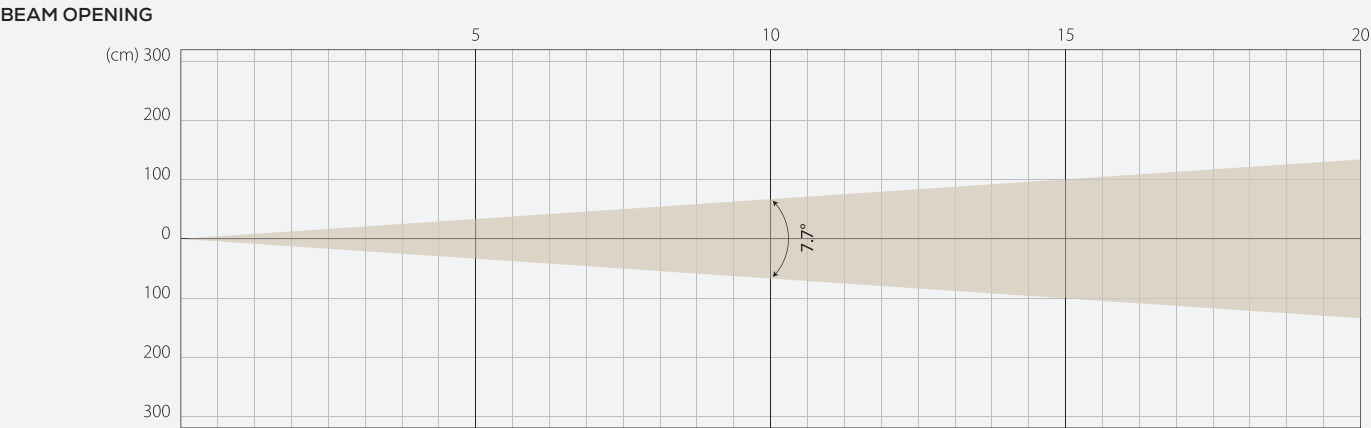
INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
White	6765	2,03	1691	4,07	752	6,1	423	8,14

MIN ZOOM

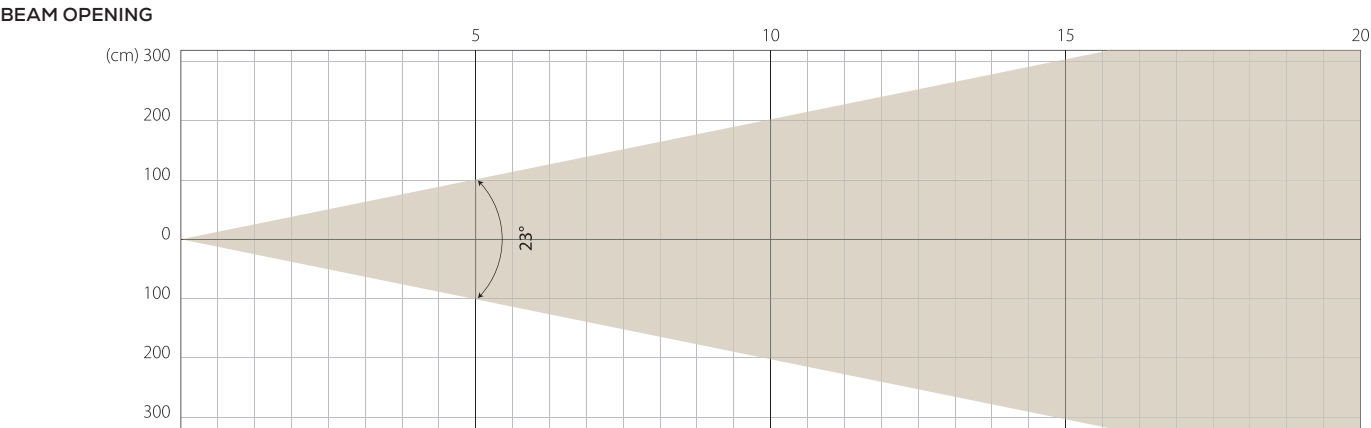
MIDDLE ZOOM

MAX ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
White	62803	0,67	15701	1,35	6978	2,02	3925	2,69



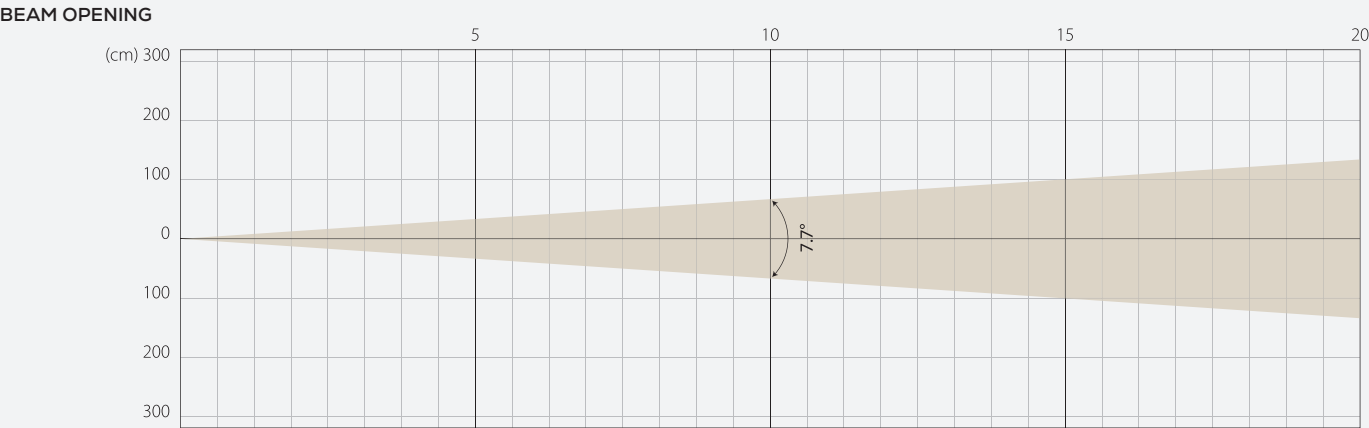
INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
White	6881	2,03	1720	4,07	765	6,1	430	8,14

MIN ZOOM

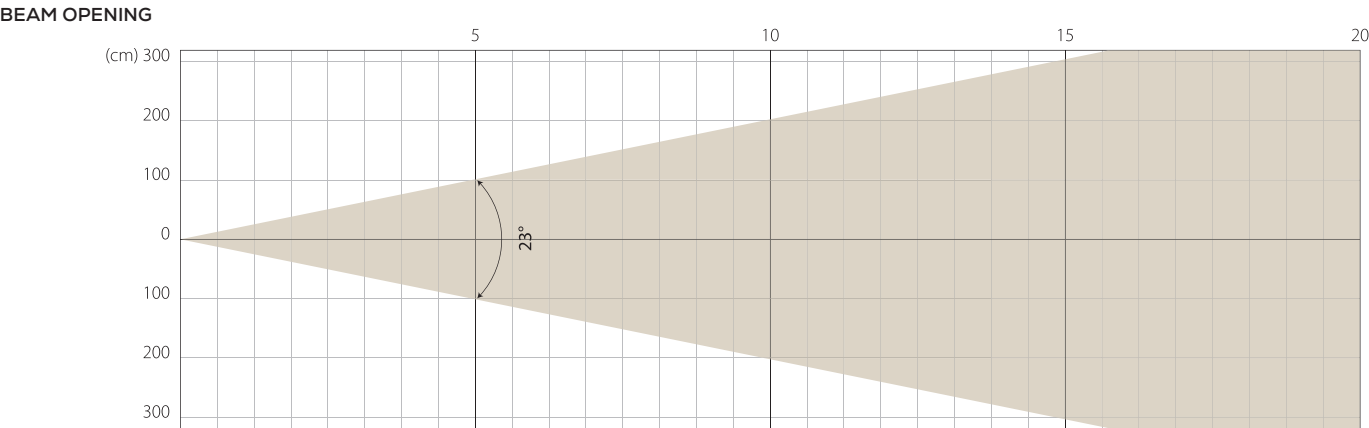
MIDDLE ZOOM

MAX ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
White	35130	0,67	12647	1,35	5621	2,02	3162	2,69

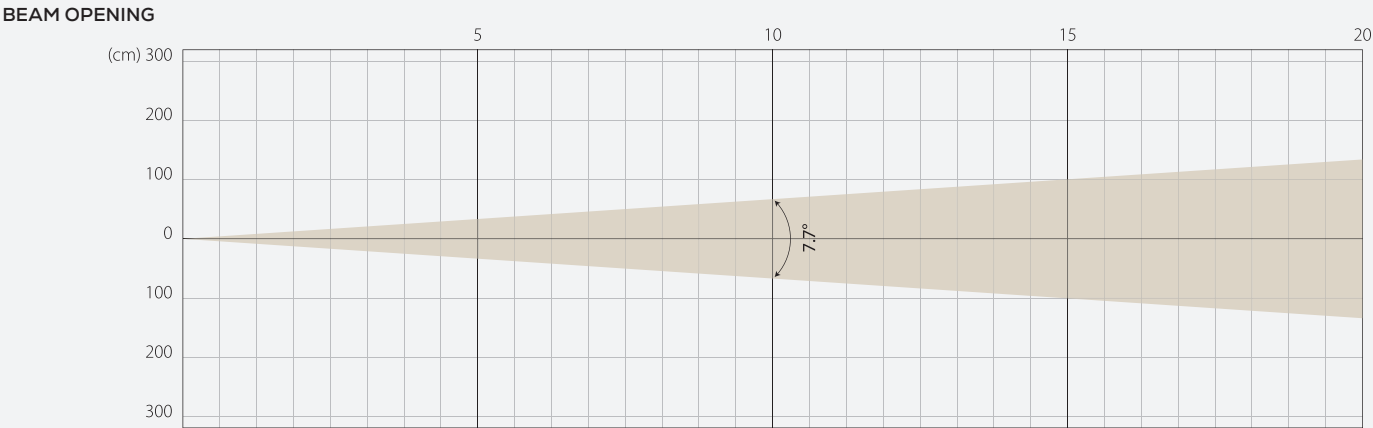


INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
White	5456	2,03	1364	4,07	606	6,1	341	8,14

MIN ZOOM

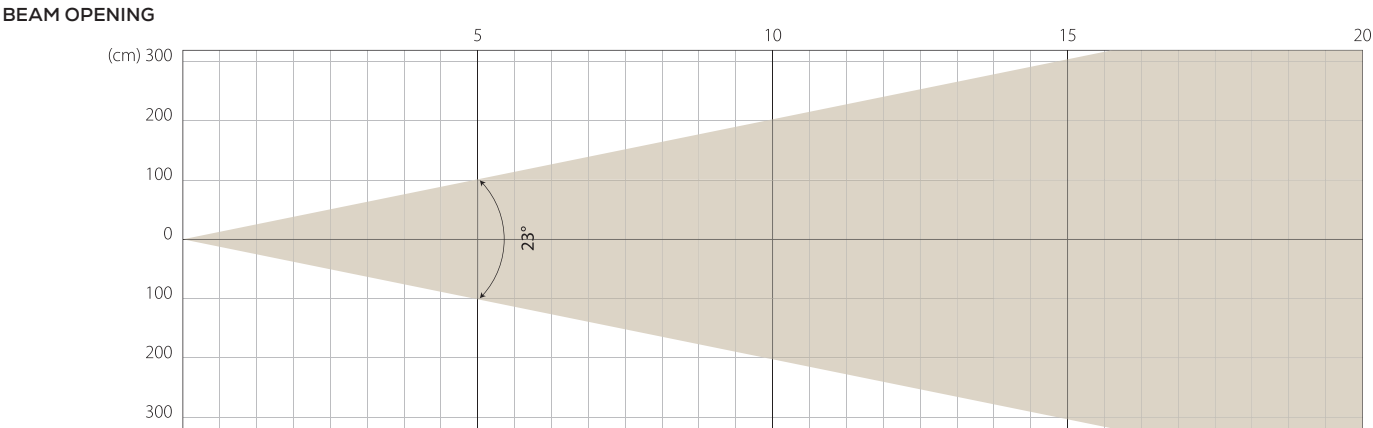
MIDDLE ZOOM



INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
White	32142	0,67	8035	1,35	3571	2,02	2009	2,69

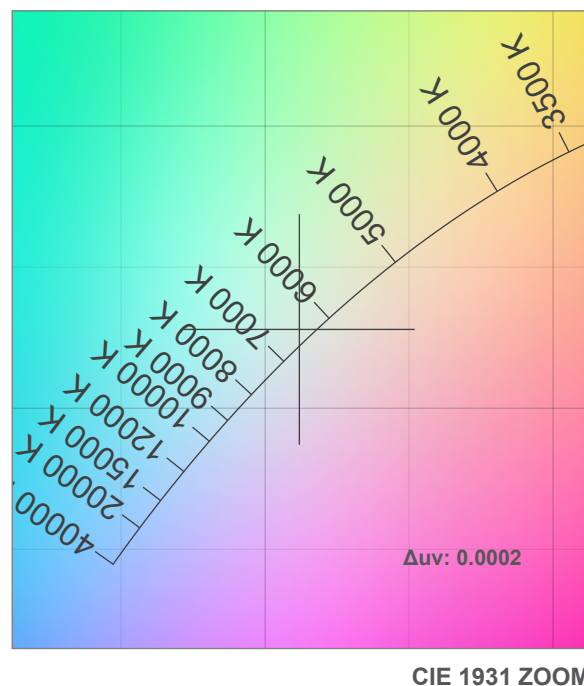
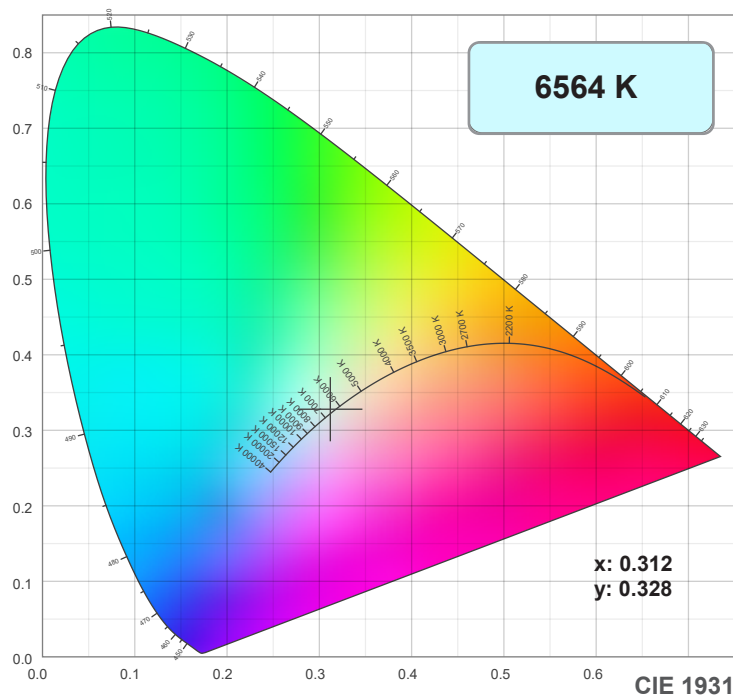
MAX ZOOM



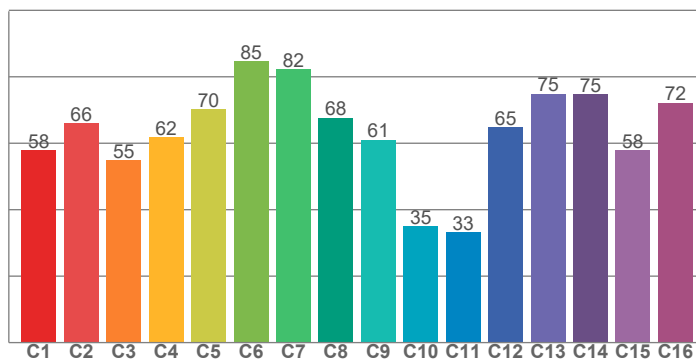
INTENSITY

Distance (m)	5		10		15		20	
unit	lux	diameter	lux	diameter	lux	diameter	lux	diameter
White	3514	2,03	879	4,07	390	6,1	220	8,14

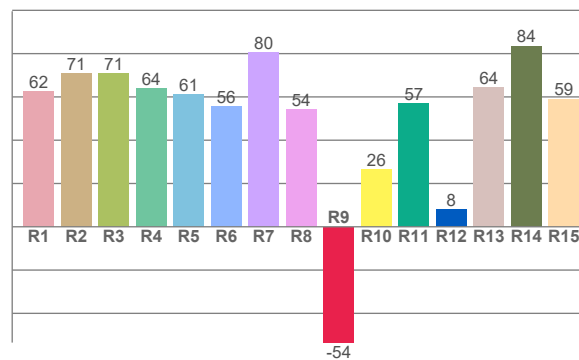
COLOUR DETAILS



TM-30: 62.9



CRI: 65.0 (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
62.4	71.0	70.9	64.1	61.0	55.8	80.5	54.1	-53.5	26.4	57.1	7.9	64.4	83.6	59.1

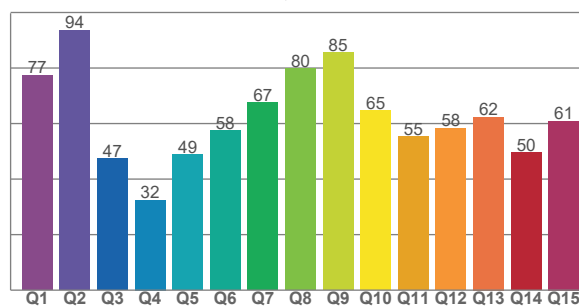
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
57.8	66.0	54.8	61.8	70.2	84.7	82.3	67.6	61.0	35.0	33.2	64.8	74.9	74.7	57.9	72.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.4	93.6	47.4	32.5	48.8	57.5	67.5	79.8	85.5	64.7	55.4	58.3	62.4	49.5	60.9

CQS: 59.6



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
6564 K	65.0	-53.5	62.9	86.7	59.6	0.312	0.328	0.198	0.312	0.0002

TM-30 DETAILS

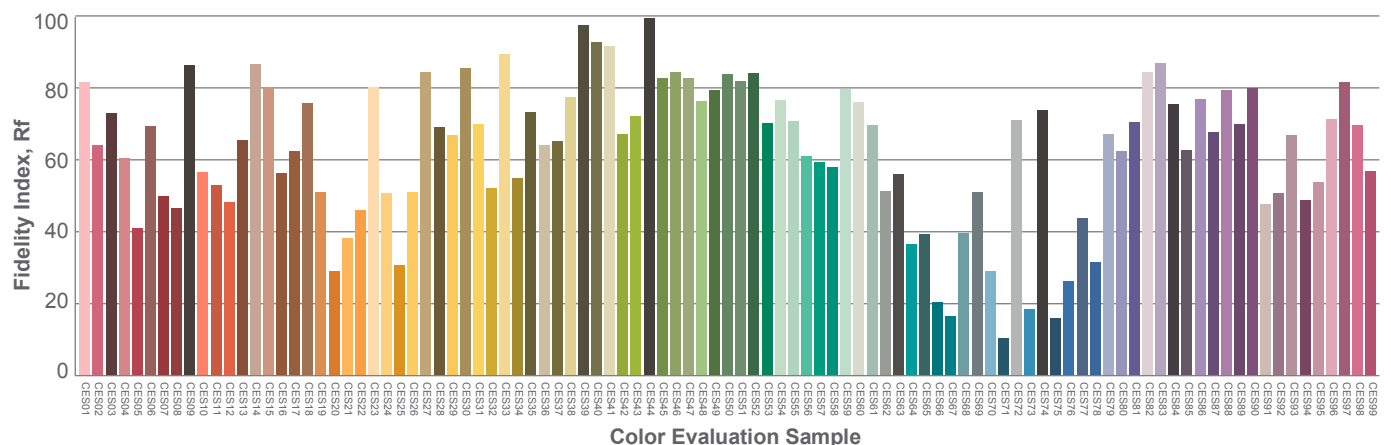
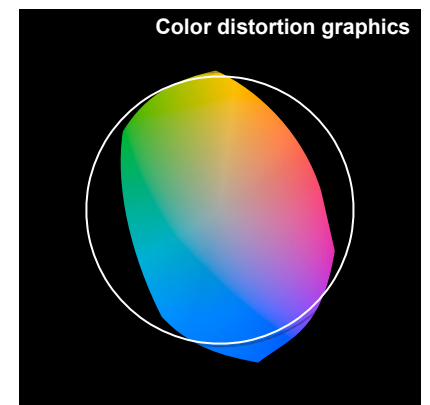
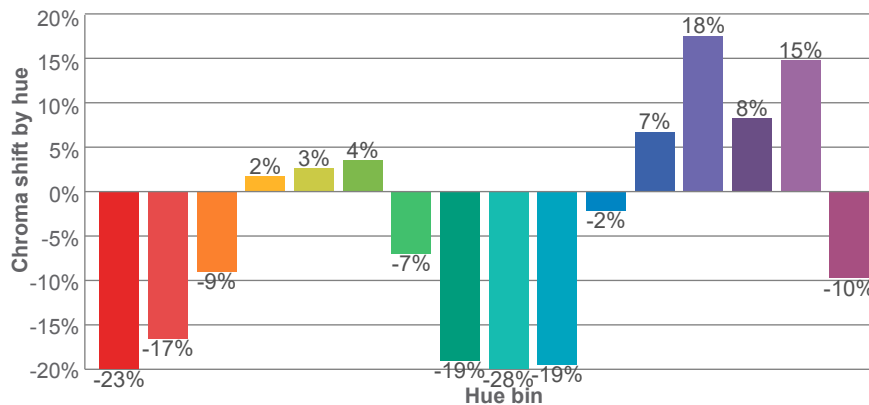
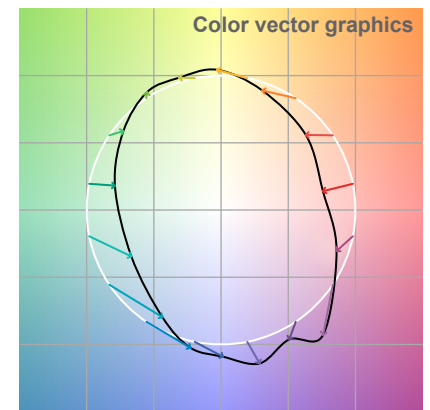
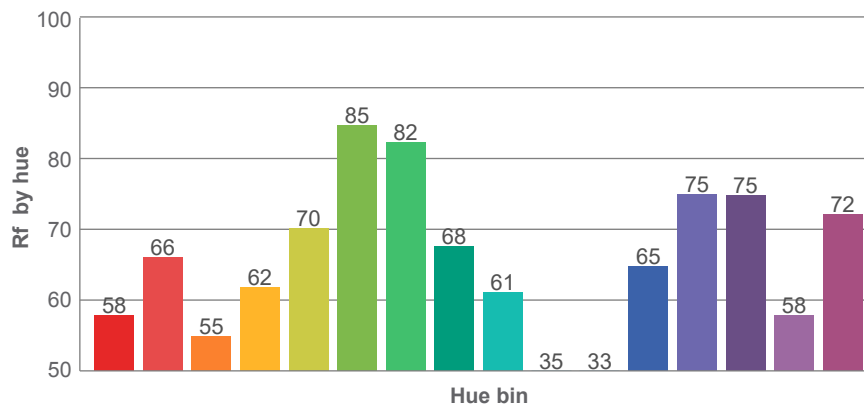
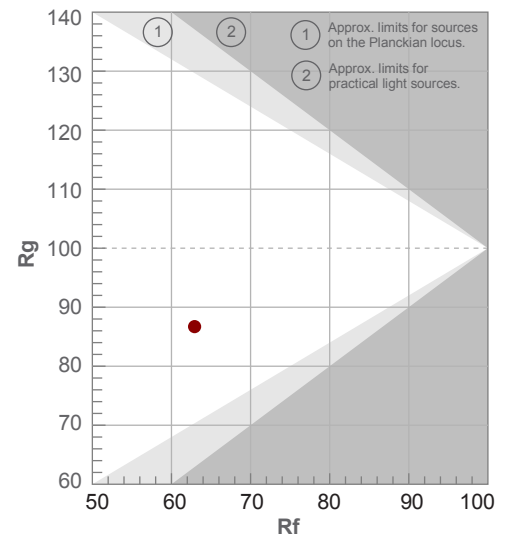
Rf 62.9

Fidelity index Rf

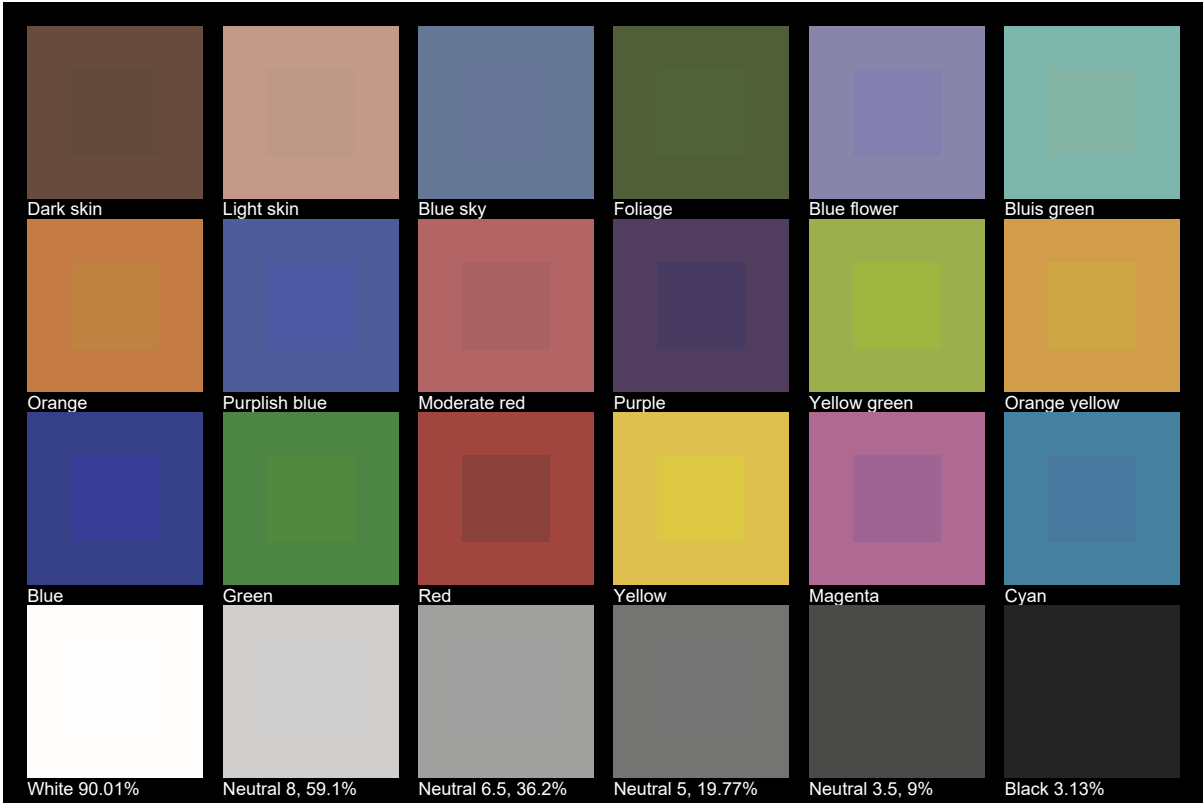
Rg 86.7

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	58	-23%	-1%
2	66	-17%	11%
3	55	-9%	24%
4	62	2%	23%
5	70	3%	11%
6	85	4%	-3%
7	82	-7%	-9%
8	68	-19%	-2%
9	61	-28%	21%
10	35	-19%	42%
11	33	-2%	38%
12	65	7%	23%
13	75	18%	6%
14	75	8%	-11%
15	58	15%	-35%
16	72	-10%	-13%



TLCI 48





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