

Risalto LED M VariWhite +

Product code:
F134G000M (Fresnel)
F134G000N (PC)

Last update:
16/10/2024



Risalto LED M VariWhite +

Introducing

● Designed with + electronic and a new OLED display, this Fresnel or PC projector is the evolution of the Risalto Led VW. The + electronic with advanced LED controller enables a smooth dimming and it offers and higher luminous efficiency, with a color rendering index of the white range greater than 95 Very quick setup of the functions thanks to the potentiometer knob

Key Features



● 200 W VariWhite LEDs Module



● High CRI > 95



● CCT Continuously Variable 2.800 K → 6.500 K



● High lumen flux and flat field



● Fresnel or PC lenses (diameter 150 mm / 5.9 in)

● **With Fresnel Lens:** Zoom min 11.4° (1/2 p.a.), 19° (1/10 p.a.), Zoom max 44.6° (1/2 p.a.), 71° (1/10 p.a.)

● **With PC Lens:** Zoom range from 11° (1/2 p.a.) to 66° (1/10 p.a.)



● Steel and die cast aluminium with High-quality epoxy powder coating protects against corrosion



● Custom color on request (optional)



● Manual (standard) or Pole Operated Pan-Tilt (optional)



● European Conformity certification

General	
● LED Source	VariWhite LEDs Module
● CCT Range	● ● ● ● Continuously Variable 2.800 K → 6.500 K
● Color Rendition Average	CRI> 95
● Dimming	8 or 16 bit, 5 selectable curves: Exponential, Logarithmic, Linear, Halo and Standard
● Dimming Smooth Selection	Fast, Slow and Very Slow
● Strobe	Electronic strobe, synchronized, random, pulse effect
● Lens	Glass Fresnel or PC lenses (diameter 150 mm / 5.9 in)
● Optical (Zoom range)	With Fresnel Lens: Zoom min 11.4° (1/2 peak angle), 19° (1/10 peak angle) Zoom max 44.6° (1/2 peak angle), 71° (1/10 peak angle) With PC Lens: Zoom range from 11° (1/2 peak angle) to 66° (1/10 peak angle)
● Camera flicker control/Hz range	Flicker-free operation with LEDs frequency controlled via DMX from 600 to 20.000 Hz
● Calibrated Cob	Yes
● L80 Rating (hours to 80% output)	50.000 Hours
Electrical	
● Voltage Input	90-264 V, 50/60 Hz, auto-sensing
● Power Consumption	200 W Maximum - 0.92 A at 230 V, 1.83 A at 115 V - cosφ 0.95
● Power Connection	In and Out PowerCON TRUE1 Top connectors, 1.5 m (4.9 ft) PowerCon cable without power plug
● Data Connection	In and Out DMX 5 pin locking XLR connectors
Thermal	
● Ambient Operating Temperature	0°C - +40°C (32°F - 104°F)
● Fan (controllable)	Yes, 4 different settings: Silent, Studio, Auto, DMX Regulated
Control	
● Protocols	DMX-512, RDM (Remote Device Management), Wireless (optional By LumenRadio)
● RDM configuration	Yes
● DMX Channels	5 / 2 / 1 / Sunrise / Raw / MK1 / 6 Channels
● Display	Graphic OLED with on-board selector for quick setting
● Software Upload	Through DMX with RDM Upgrade USB interface (code AC10011A001)
Physical	
● Yoke	Manual (standard) or Pole Operated Pan-Tilt (optional)
● Materials	Steel and die cast aluminium with High-quality epoxy powder coating protects against corrosion
● Weight	8.5 Kg / 18.74 lbs
● Length	413 mm / 16.26 in
● Height	218 mm/ 8.58 in - With bracket: 348 mm / 13.70 in
● Width	281 mm / 11.06 in
● IP Rating	IP20
● Color options	Black (standard), custom color on request (optional)
General accessories	
BC10034A003	4-Leaf Barndoor (included)
GKIT17 (USA) / GKIT16 (EU)	1.5 m (4.9 ft) power cable with PowerCON TRUE1 Top and bare ends (included)
BC10034A006	Frame holder (included)



PC lens

Risalto Led + Rear Panel / PC lens

DMX Charts

5 Channels

- 01 → Master Dimmer
- 02 → Dimmer Fine
- 03 → White Tone
- 04 → Strobe Effect
- 05 → Special Functions

Raw Mode

- 01 → Warm White Led
- 02 → Warm White Led Fine
- 03 → Cold White Led
- 04 → Cold White Led Fine

2 Channel

- 01 → Master Dimmer
- 02 → White Tone

MK1 Mode

- 01 → Master Dimmer
- 02 → White Tone

1 Channel

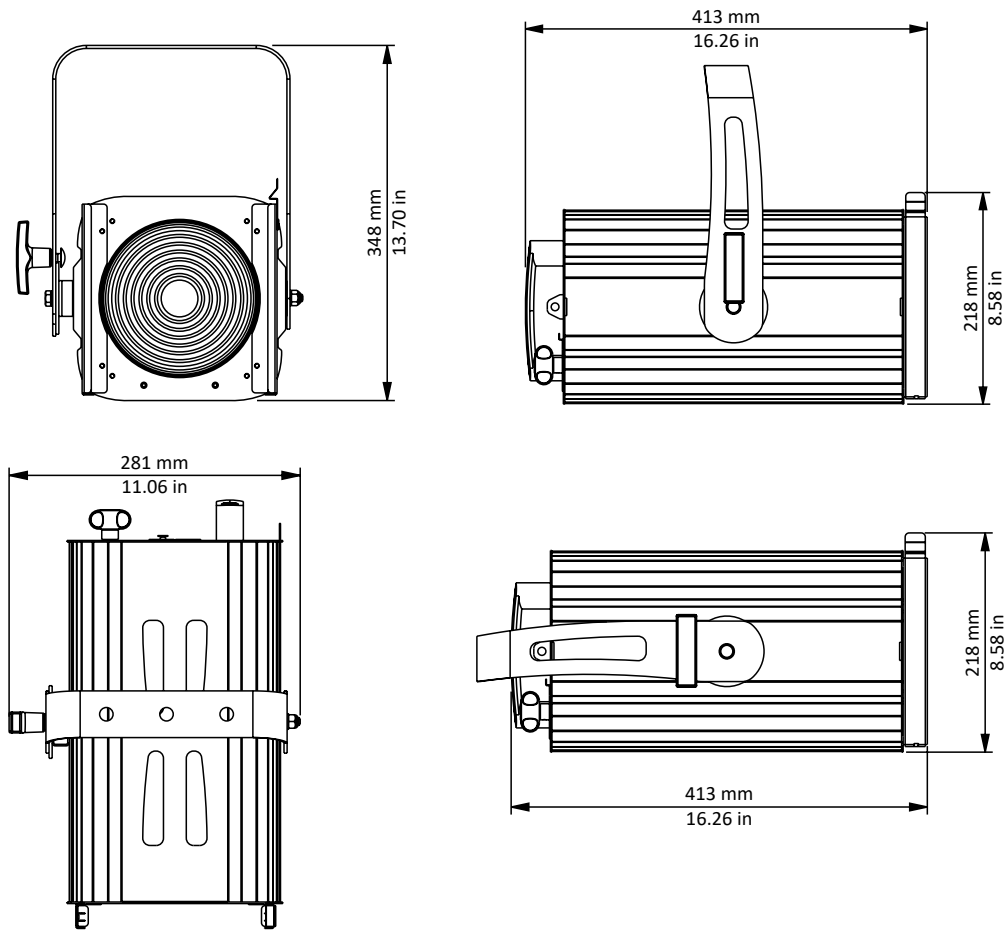
- 01 → Master Dimmer - Color Temperature Settable by Display

6 Channels Mode

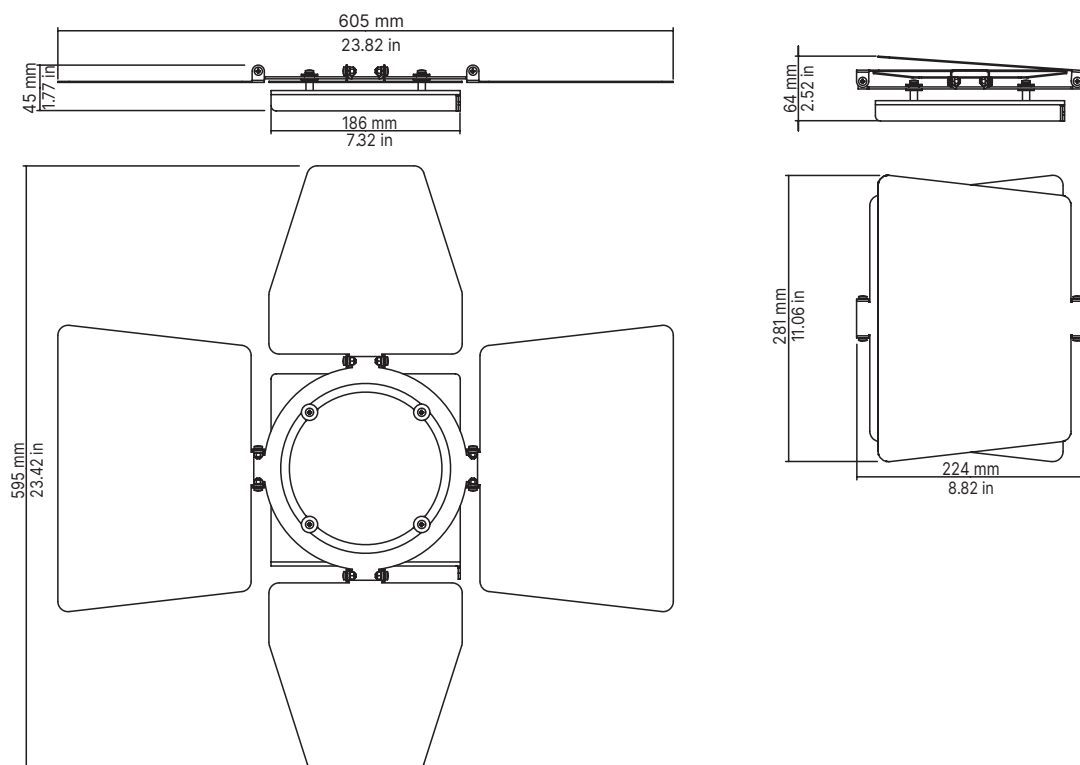
- 01 → Master Dimmer
- 02 → Dimmer Fine
- 03 → White Tone
- 04 → White Temperature Fine
- 05 → Strobe Effect
- 06 → Special Function

Sunrise Mode

- 01 → Master Dimmer
- 02 → Dimmer Fine
- 03 → Proportional White Tone
- 04 → Step White Tone
- 05 → Special Functions



4-Leaf Barndoor

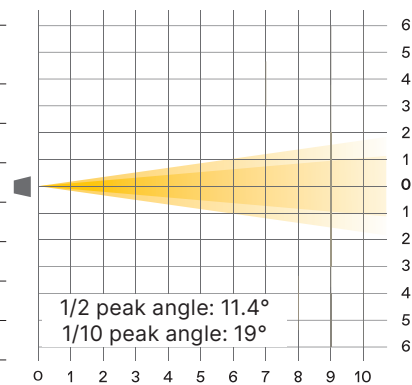


Risalto M VariWhite +, Fresnel

Measurements taken at 4.3 meters

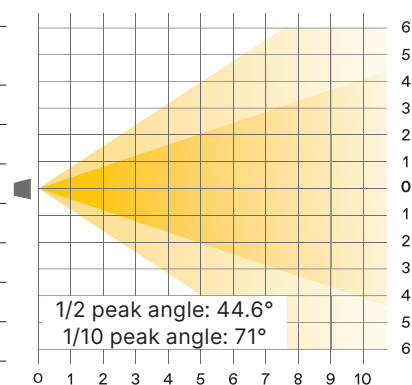
Minimum Zoom

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	2.800 K	63106	15777	7012	3944	2524	1753	1288	986	779	631
	3.200 K	73627	18407	8181	4602	2945	2045	1503	1150	909	736
	4.000 K	91784	22946	10198	5737	3671	2550	1873	1434	1133	918
	5.600 K	100678	25170	11186	6292	4027	2797	2055	1573	1243	1007
	6.500 K	91692	22923	10188	5731	3668	2547	1871	1433	1132	917
1/2 P.A. Ø (m)	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	
1/10 P.A. Ø (m)	0.33	0.67	1.00	1.34	1.67	2.01	2.34	2.68	3.01	3.35	
	2.800 K	CRI 97.3	TLCI 97.1								
	3.200 K	CRI 96.6	TLCI 97.7								
	4.000 K	CRI 96.3	TLCI 97.9								
	5.600 K	CRI 96.7	TLCI 98.4								
	6.500 K	CRI 97.4	TLCI 98.3								



Maximum Zoom

Distance(m)	1	2	3	4	5	6	7	8	9	10	
lux	2.800 K	10817	2704	1202	676	433	300	221	169	134	108
	3.200 K	12795	3199	1422	800	512	355	261	200	158	128
	4.000 K	15975	3994	1775	998	639	444	326	250	197	160
	5.600 K	17418	4354	1935	1089	697	484	355	272	215	174
	6.500 K	15901	3975	1767	994	636	442	325	248	196	159
1/2 P.A. Ø (m)	0.82	1.64	2.46	3.28	4.10	4.92	5.74	6.56	7.38	8.20	
1/10 P.A. Ø (m)	1.43	2.85	4.28	5.71	7.13	8.56	9.99	11.41	12.84	14.27	
	2.800 K	CRI 96.1	TLCI 96.5								
	3.200 K	CRI 95.4	TLCI 97.3								
	4.000 K	CRI 95.1	TLCI 97.7								
	5.600 K	CRI 95.6	TLCI 98.3								
	6.500 K	CRI 96.7	TLCI 98.2								



Risalto M VariWhite +, Fresnel, Minimum Zoom, 2.800K

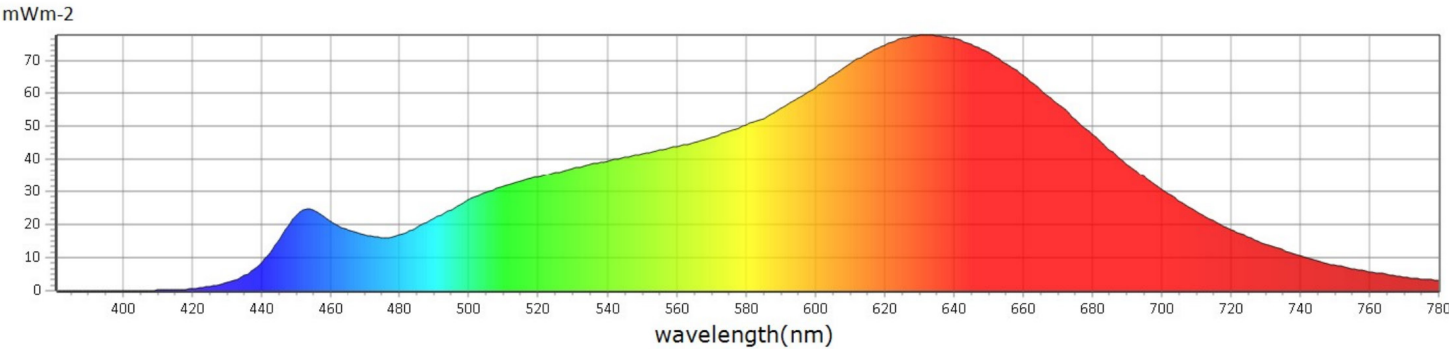
Measurements taken at 4.3 meters

General	
● CCT	2776 K
● x	0,4551
● y	0,4117
● LambdaD	584 nm
● LambdaP	631 nm

Measurements

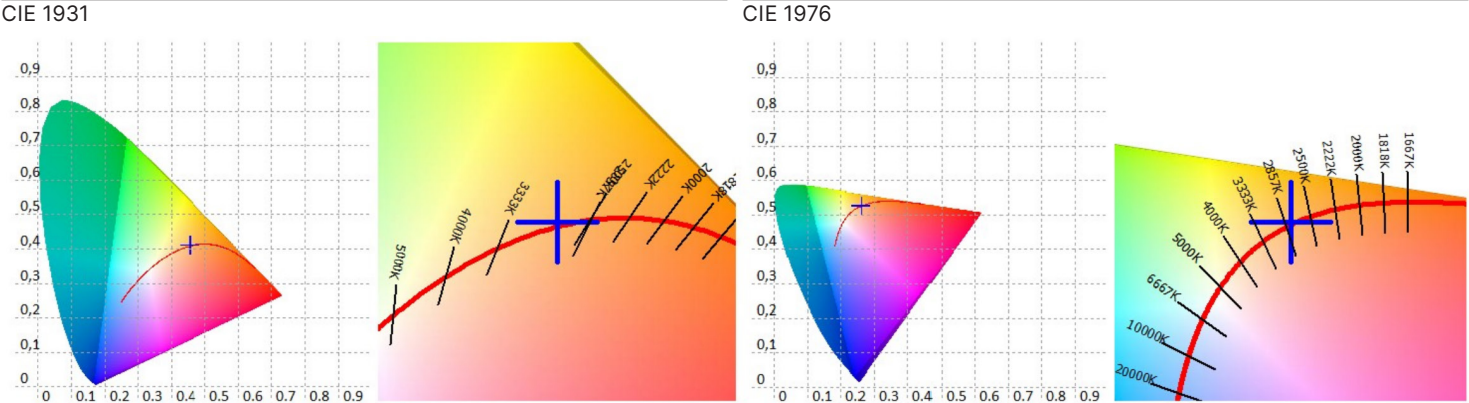
CCT : 2776 K	x10 : 0,4599	delta-x : 0,0013	LambdaD : 584 nm	PPFD : 58,46 umolm-2s-1	S/P : 1,38	R3 : 99,1	R10 : 98,1
LUX : 3413 lx	y10 : 0,4113	delta-y : 0,0025	LambdaP : 631 nm	PFD : 64,47 umolm-2s-1	IRR : 12,78	R4 : 97,6	R11 : 94,3
I-Time : 3600 us	u'10 : 0,2622	delta-u' : -0,0003	Purity : 59,95%	PFD-B : 4,986 umolm-2s-1	CQS : 94,9	R5 : 98,0	R12 : 90,2
x : 0,4551	v'10 : 0,5276	delta-v' : 0,0012	fc : 317,2	PFD-G : 19,93 umolm-2s-1	CRI : 97,3	R6 : 95,6	R13 : 98,1
y : 0,4117	X : 3773,24	Duv : 0,0008	Rf : 94,2	PFD-R : 33,55 umolm-2s-1	TLCI : 97,1	R7 : 96,5	R14 : 98,5
u' : 0,2589	Y : 3413,49	MEL : 1810 lx	Rg : 99,0	PFD-UV : 0,0005 umolm-2s-1	R1 : 98,5	R8 : 94,5	R15 : 97,8
v' : 0,5270	Z : 1104,92	LambdaPV : 77,69	GAI : 49,1	PFD-FR : 6,010 umolm-2s-1	R2 : 98,7	R9 : 88,2	

Spectrum



Risalto M VariWhite +, Fresnel, Minimum Zoom, 2.800K

Measurements taken at 4.3 meters



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98,5	98,7	99,1	97,6	98,0	95,6	96,5	94,5	88,2	98,1	94,3	90,2	98,1	98,5	97,8

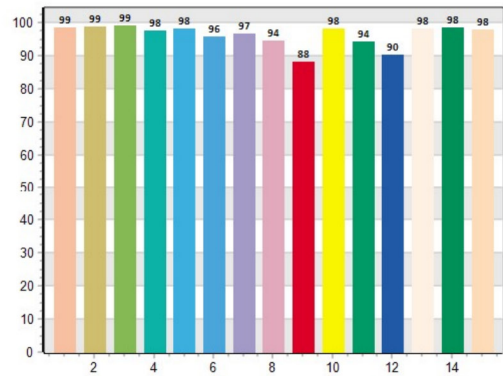
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,0	97,4	95,6	91,6	94,5	95,5	91,4	94,6	93,6	93,5	94,0	91,2	91,6	91,4	92,4	90,0

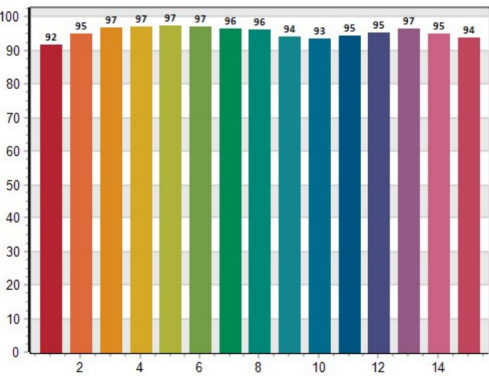
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,8	95,0	96,9	97,2	97,4	97,2	96,4	96,1	94,2	93,5	94,6	95,2	96,6	95,0	93,8

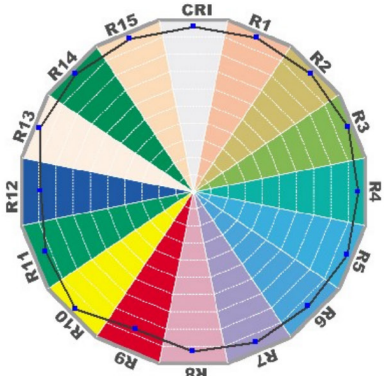
CRI: 97.30



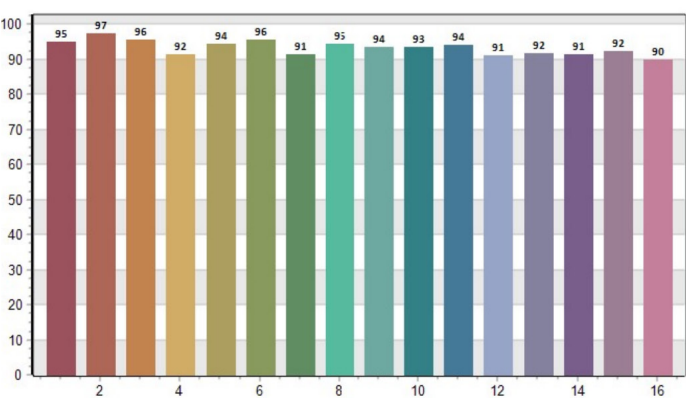
CQS: 94.94



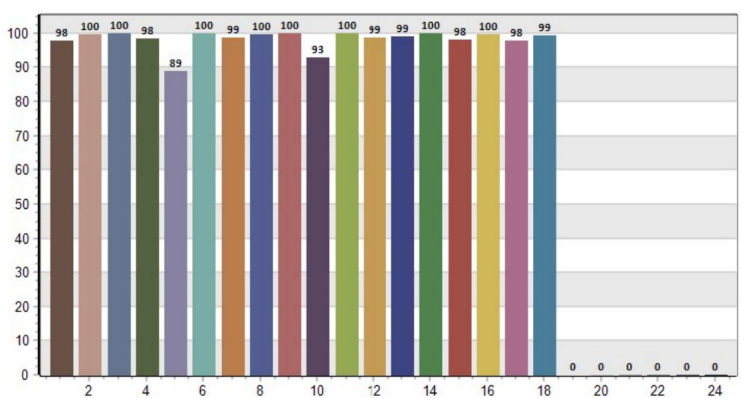
CRI-2



TM30: 94.24



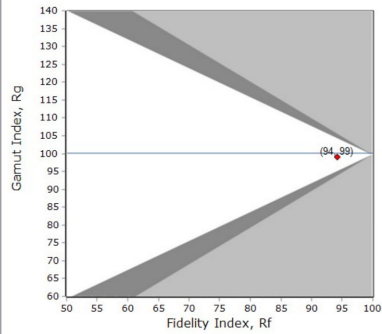
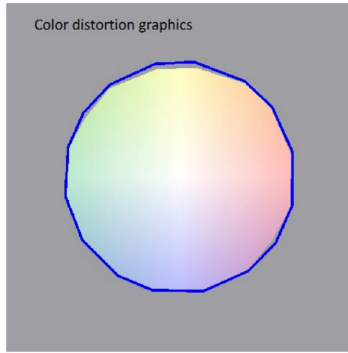
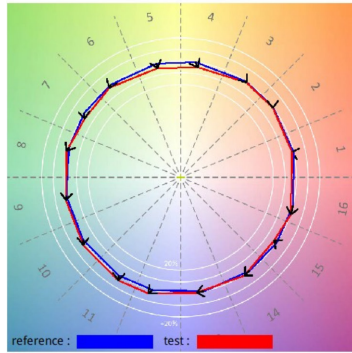
TLCI: 97.05



Risalto M VariWhite +, Fresnel, Minimum Zoom, 2.800K

Measurements taken at 4.3 meters

General Color Rendition

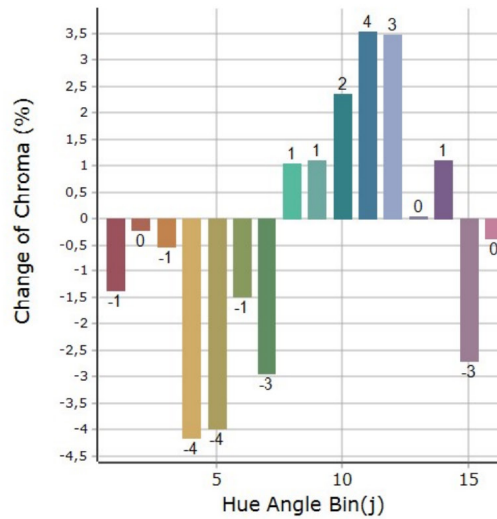
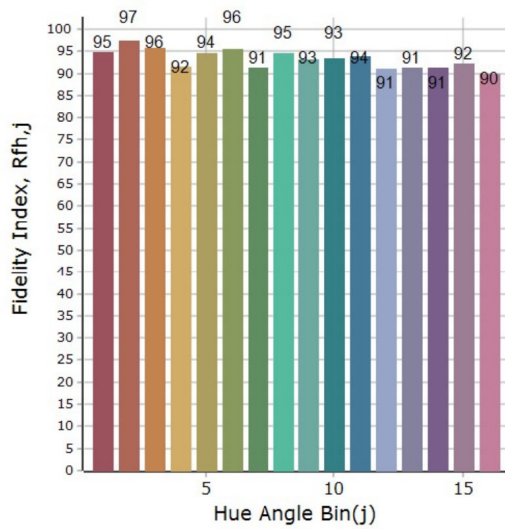
**Rf 94,1**

Fidelity index Rf

Rg 99,0

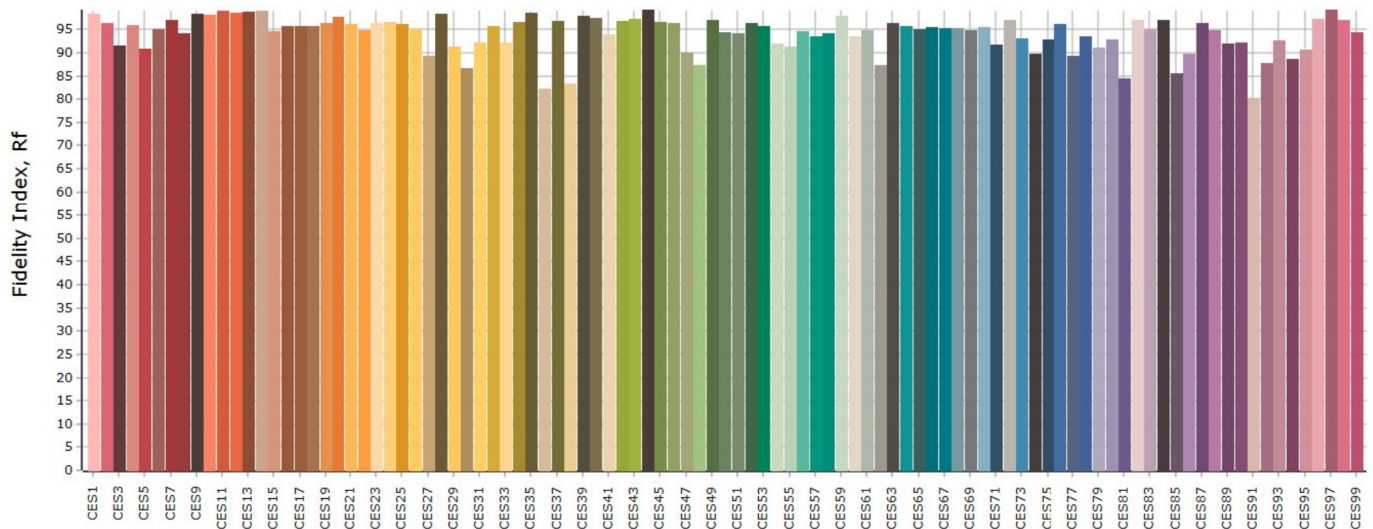
Gamut index Rg

Color Rendition by Hue



		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	94,8	-1,4%	0,8%
2	97,4	-0,2%	-0,5%
3	95,7	-0,5%	-1,2%
4	91,6	-4,1%	-3,2%
5	94,5	-4,0%	0,0%
6	95,6	-1,5%	2,1%
7	91,2	-2,9%	4,0%
8	94,6	1,0%	3,2%
9	93,2	1,1%	3,4%
10	93,3	2,4%	3,3%
11	93,8	3,5%	2,3%
12	91,0	3,5%	-2,9%
13	91,4	0,1%	-6,0%
14	91,2	1,1%	-6,1%
15	92,2	-2,7%	0,2%
16	89,8	-0,4%	-7,6%

Color Fidelity by Sample



Risalto M VariWhite +, Fresnel, Maximum Zoom, 2.800K

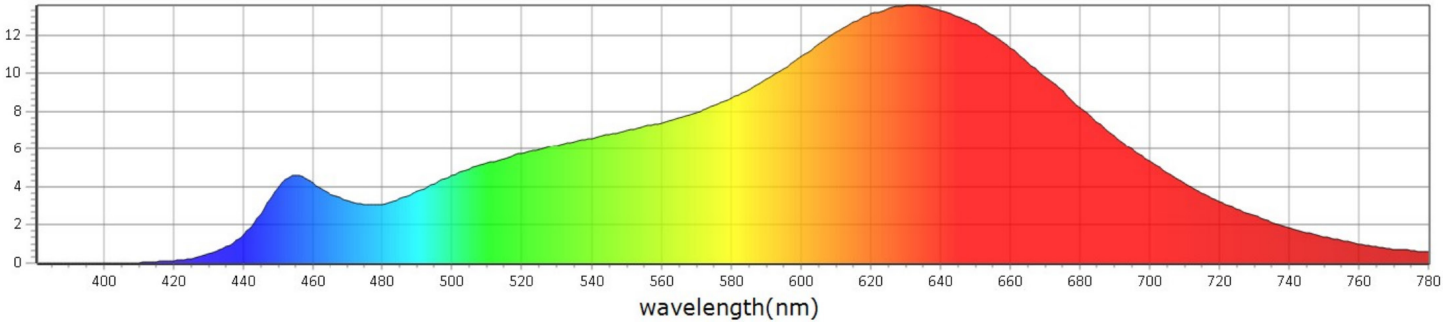
Measurements taken at 4.3 meters

General	
● CCT	2725 K
● x	0,4550
● y	0,4050
● LambdaD	585 nm
● LambdaP	632 nm

Measurements

CCT : 2725 K	x10 : 0,4593	delta-x : -0,0029	LambdaD : 585 nm	PPFD : 10,14 $\mu\text{molm}^{-2}\text{s}^{-1}$	S/P : 1,38	R3 : 98,3	R10 : 94,9
LUX : 585,4 lx	y10 : 0,4050	delta-y : -0,0051	LambdaP : 632 nm	PFD : 11,20 $\mu\text{molm}^{-2}\text{s}^{-1}$	IRR : 2,220	R4 : 98,0	R11 : 94,2
I-Time : 18000 us	u'10 : 0,2646	delta-u' : 0,0004	Purity : 57,94%	PFD-B : 0,9059 $\mu\text{molm}^{-2}\text{s}^{-1}$	CQS : 95,3	R5 : 97,0	R12 : 88,0
x : 0,4550	v'10 : 0,5251	delta-v' : -0,0024	fc : 54,41	PFD-G : 3,390 $\mu\text{molm}^{-2}\text{s}^{-1}$	CRI : 96,1	R6 : 93,0	R13 : 97,0
y : 0,4050	X : 657,60	Duv : -0,0017	Rf : 94,4	PFD-R : 5,847 $\mu\text{molm}^{-2}\text{s}^{-1}$	TLCI : 96,5	R7 : 94,8	R14 : 99,0
u' : 0,2618	Y : 585,44	MEL : 313,7 lx	Rg : 100,1	PFD-UV : 0,0000 $\mu\text{molm}^{-2}\text{s}^{-1}$	R1 : 97,8	R8 : 93,1	R15 : 98,4
v' : 0,5245	Z : 202,37	LambdaPV : 13,58	GAI : 52,2	PFD-FR : 1,055 $\mu\text{molm}^{-2}\text{s}^{-1}$	R2 : 97,3	R9 : 87,3	

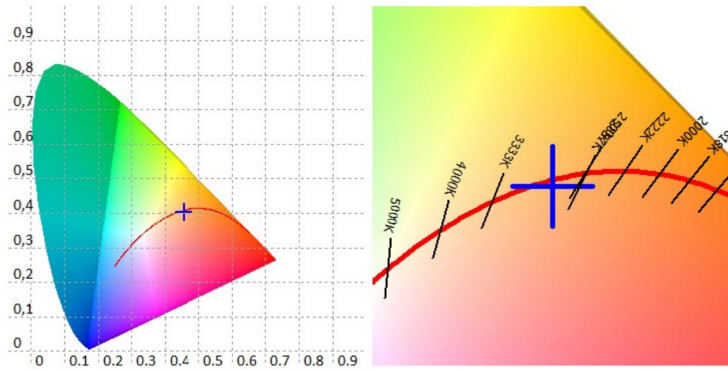
Spectrum
mWm-2



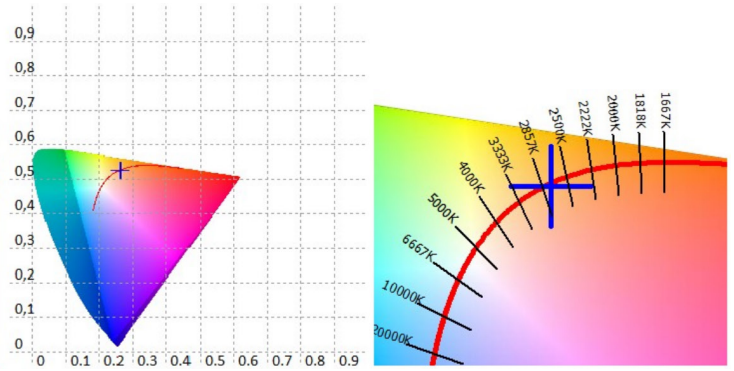
Risalto M VariWhite +, Fresnel, Maximum Zoom, 2.800K

Measurements taken at 4.3 meters

CIE 1931



CIE 1976



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,8	97,3	98,3	98,0	97,0	93,0	94,8	93,1	87,3	94,9	94,2	88,0	97,0	99,0	98,4

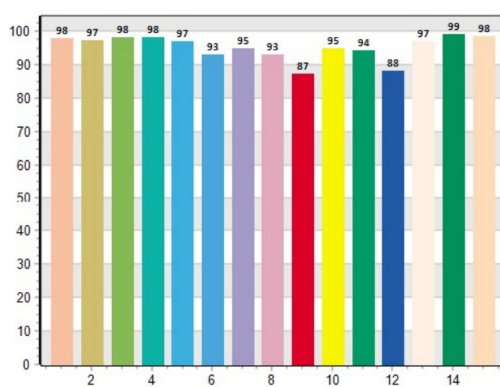
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	97,0	95,8	93,0	95,6	96,8	94,6	95,9	93,7	93,5	93,6	90,0	90,5	90,2	92,4	89,4

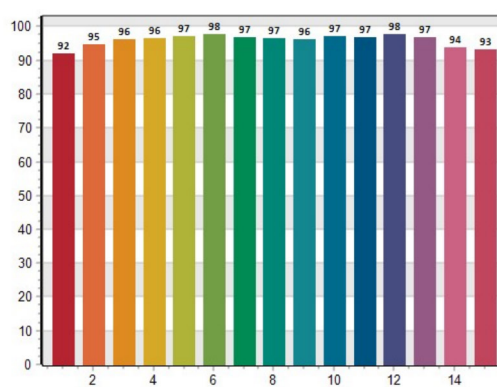
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,0	94,8	96,1	96,4	97,0	97,7	96,7	96,5	96,3	97,1	96,9	97,6	96,7	93,7	93,2

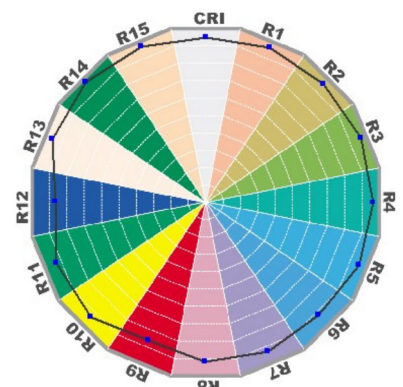
CRI: 96.15



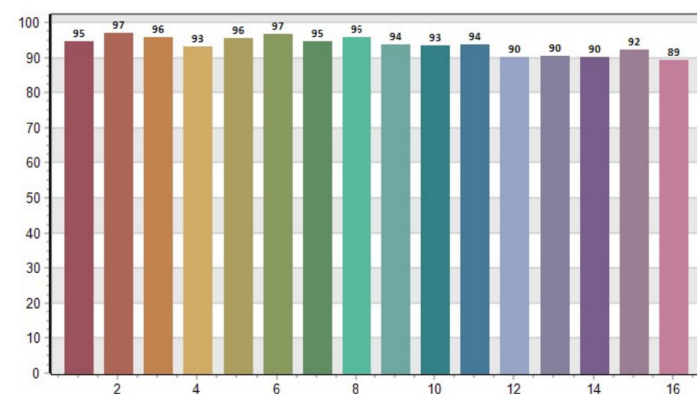
CQS: 95.30



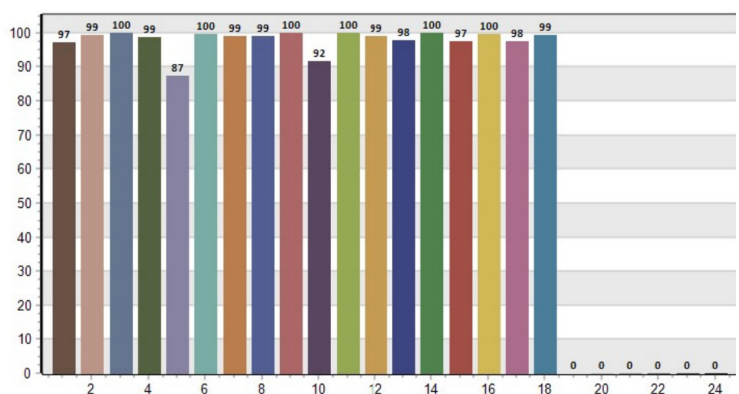
CRI-2



TM30: 94.37



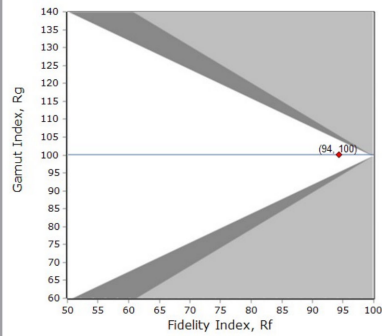
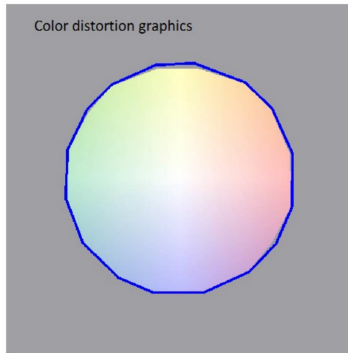
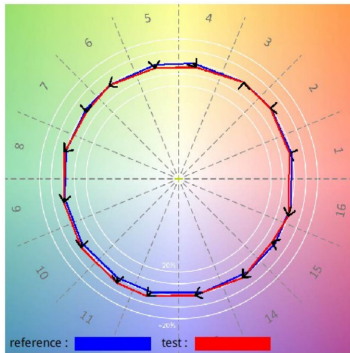
TLCI: 96.52



Risalto M VariWhite +, Fresnel, Maximum Zoom, 2.800K

Measurements taken at 4.3 meters

General Color Rendition

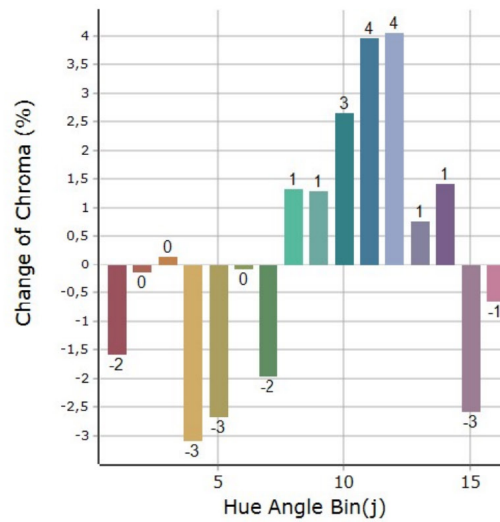
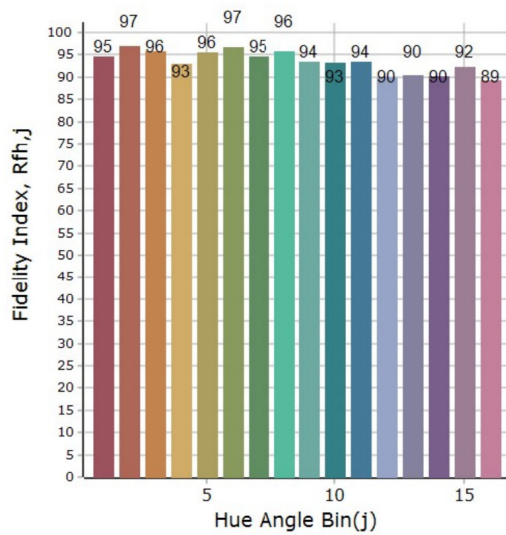
**Rf 94,3**

Fidelity index Rf

Rg 100,1

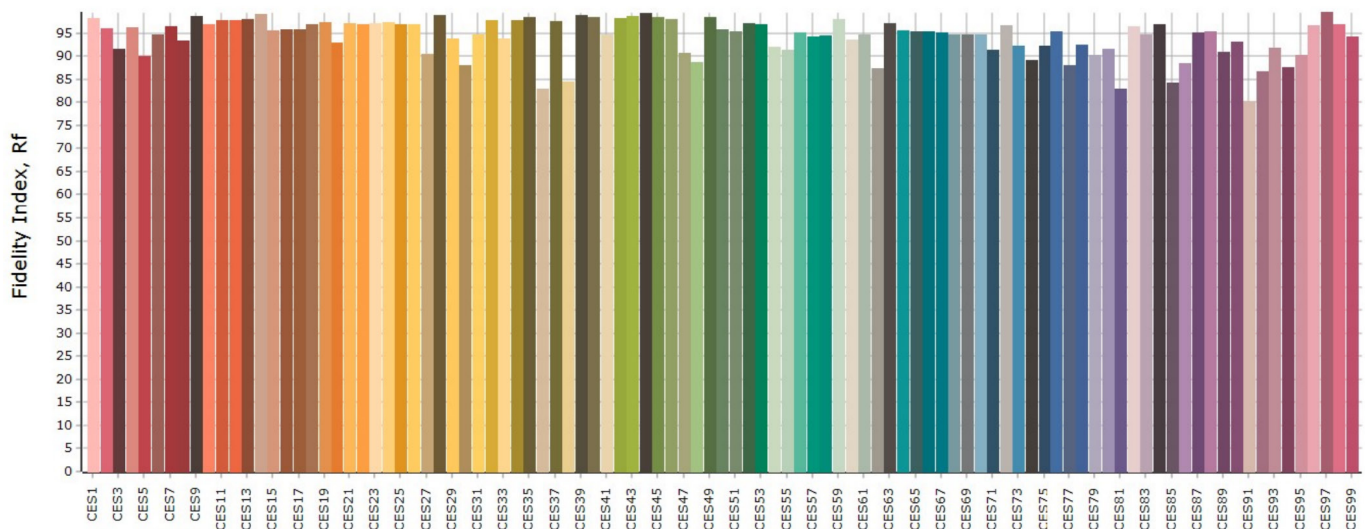
Gamut index Rg

Color Rendition by Hue



		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	94,6	-1,6%	1,0%
2	96,9	-0,1%	0,3%
3	95,8	0,1%	-0,1%
4	93,0	-3,1%	-2,8%
5	95,6	-2,7%	0,0%
6	96,7	-0,1%	1,6%
7	94,5	-1,9%	2,4%
8	95,9	1,3%	2,1%
9	93,5	1,3%	3,2%
10	93,3	2,6%	3,1%
11	93,5	3,9%	2,2%
12	90,0	4,0%	-3,1%
13	90,4	0,8%	-6,7%
14	90,2	1,4%	-7,0%
15	92,3	-2,6%	-0,6%
16	89,3	-0,6%	-8,1%

Color Fidelity by Sample



Risalto M VariWhite +, Fresnel, Minimum Zoom, 3.200K

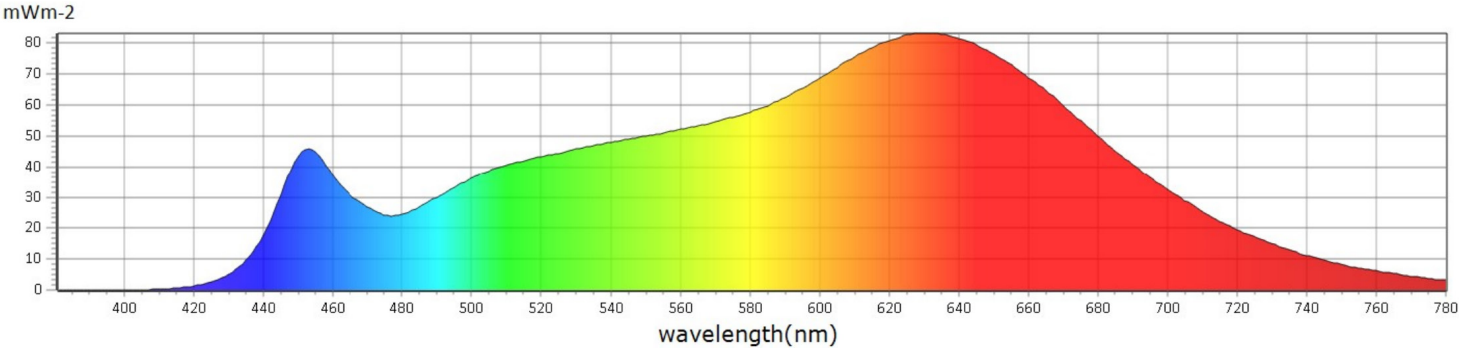
Measurements taken at 4.3 meters

General	
● CCT	3125 K
● x	0,4239
● y	0,3913
● LambdaD	584 nm
● LambdaP	631 nm

Measurements

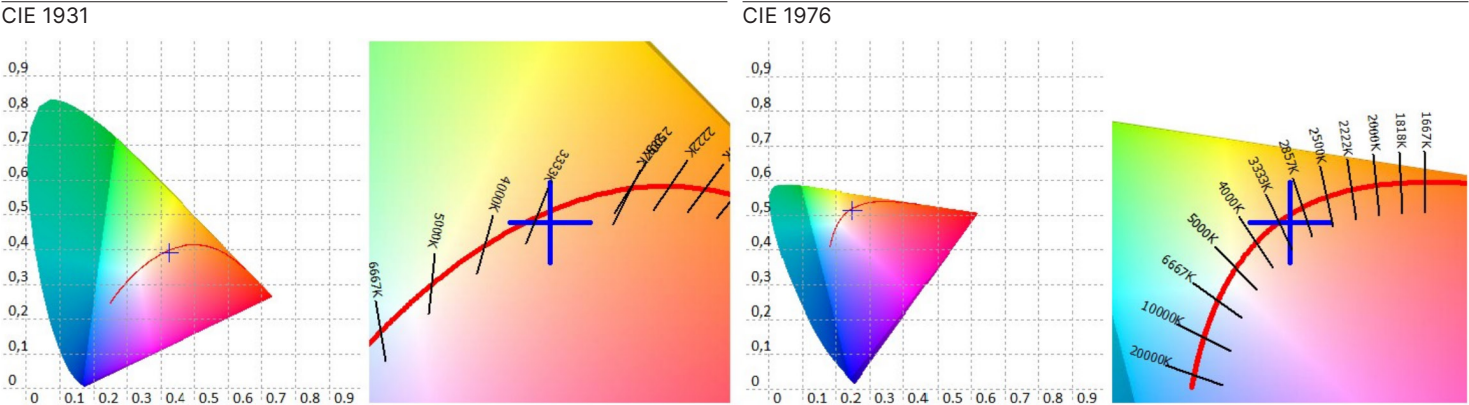
CCT : 3125 K	x10 : 0,4276	delta-x : -0,0044	LambdaD : 584 nm	PPFD : 67,57 umolm-2s-1	S/P : 1,57	R3 : 99,0	R10 : 94,5
LUX : 3982 lx	y10 : 0,3916	delta-y : -0,0097	LambdaP : 631 nm	PFD : 73,95 umolm-2s-1	IRR : 14,88	R4 : 96,8	R11 : 93,4
I-Time : 3200 us	u'10 : 0,2499	delta-u' : 0,0013	Purity : 44,52%	PFD-B : 8,096 umolm-2s-1	CQS : 96,4	R5 : 96,2	R12 : 87,4
x : 0,4239	v'10 : 0,5150	delta-v' : -0,0046	fc : 370,1	PFD-G : 23,65 umolm-2s-1	CRI : 96,6	R6 : 93,6	R13 : 95,9
y : 0,3913	X : 4313,91	Duv : -0,0033	Rf : 95,1	PFD-R : 35,83 umolm-2s-1	TLCI : 97,7	R7 : 96,7	R14 : 98,9
u' : 0,2476	Y : 3982,03	MEL : 2513 lx	Rg : 101,8	PFD-UV : 0,0000 umolm-2s-1	R1 : 96,4	R8 : 97,3	R15 : 97,8
v' : 0,5143	Z : 1881,10	LambdaPV : 83,13	GAI : 66,7	PFD-FR : 6,371 umolm-2s-1	R2 : 96,9	R9 : 95,9	

Spectrum



Risalto M VariWhite +, Fresnel, Minimum Zoom, 3.200K

Measurements taken at 4.3 meters



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,4	96,9	99,0	96,8	96,2	93,6	96,7	97,3	95,9	94,5	93,4	87,4	95,9	98,9	97,8

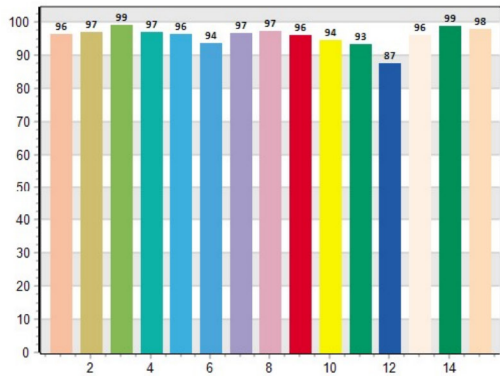
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,1	97,3	95,8	95,9	94,5	96,8	93,6	96,7	94,5	94,1	93,2	90,8	93,2	91,7	92,0	89,5

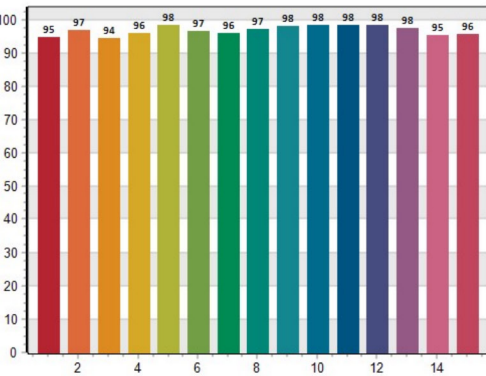
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,9	96,9	94,5	96,0	98,4	96,7	96,0	97,2	98,1	98,3	98,4	98,4	97,6	95,5	95,6

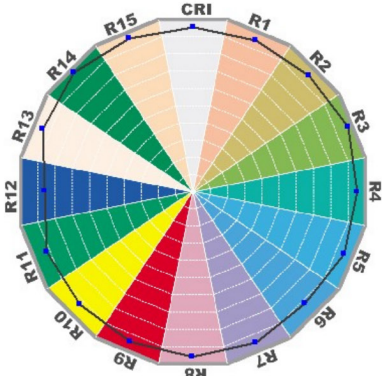
CRI: 96.62



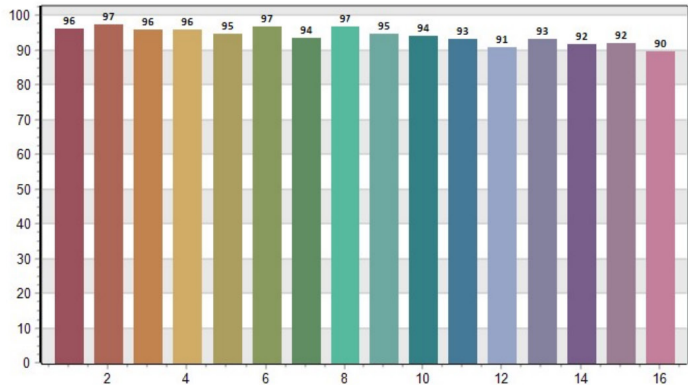
CQS: 96.39



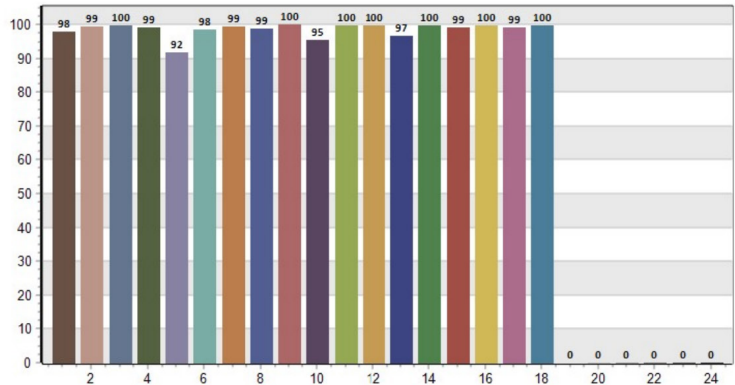
CRI-2



TM30: 95.06



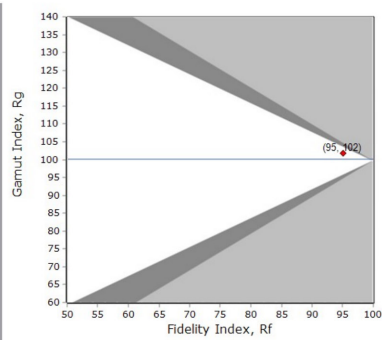
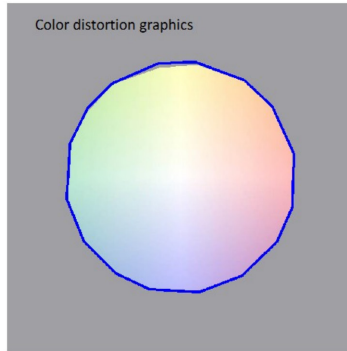
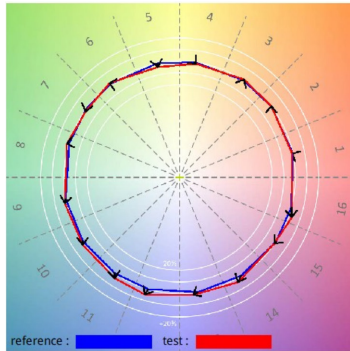
TLCI: 97.73



Risalto M VariWhite +, Fresnel, Minimum Zoom, 3.200K

Measurements taken at 4.3 meters

General Color Rendition

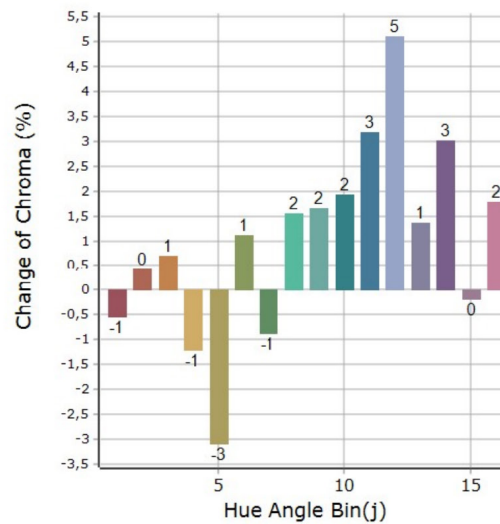
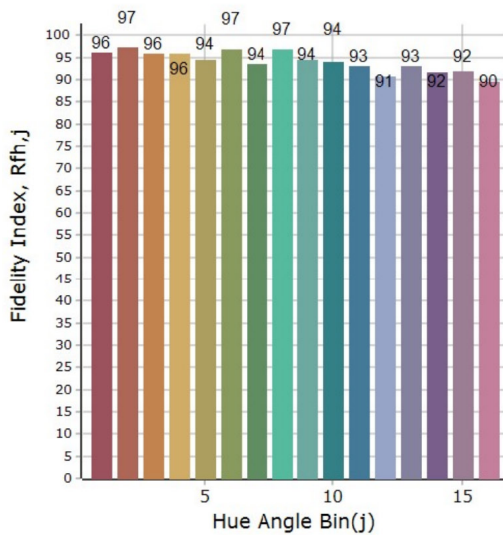
**Rf 95,0**

Fidelity index Rf

Rg 101,8

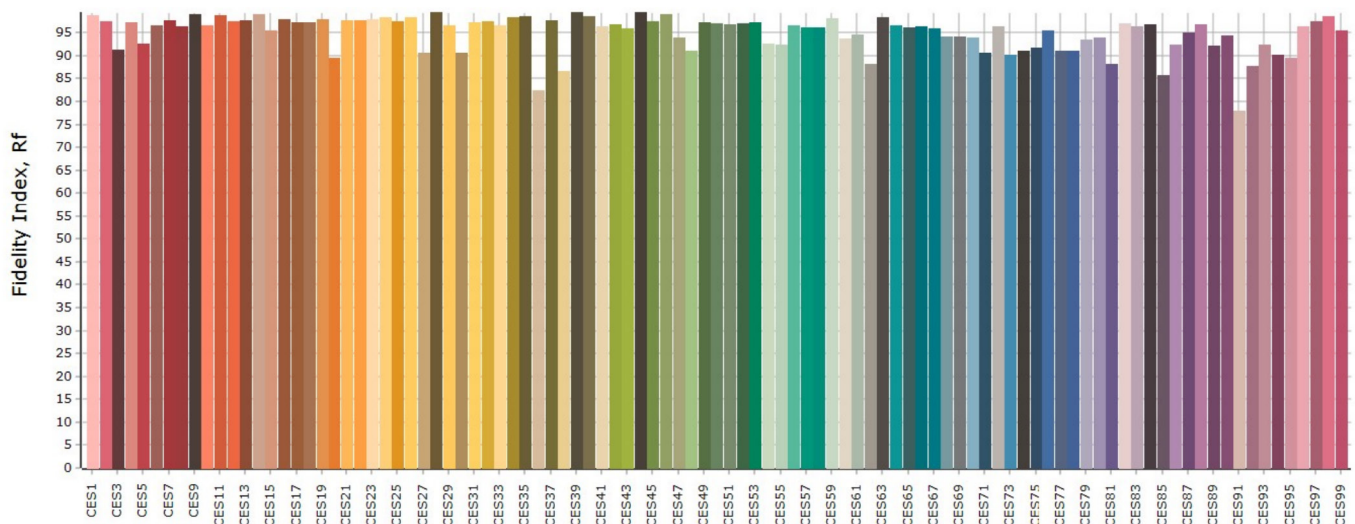
Gamut index Rg

Color Rendition by Hue



		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	96,0	-0,5%	0,6%
2	97,3	0,4%	0,1%
3	95,8	0,7%	0,2%
4	95,9	-1,2%	-1,6%
5	94,5	-3,1%	0,0%
6	96,8	1,1%	1,0%
7	93,5	-0,9%	2,2%
8	96,7	1,6%	0,8%
9	94,4	1,7%	3,6%
10	93,9	1,9%	2,7%
11	93,1	3,2%	2,9%
12	90,7	5,1%	-2,0%
13	93,2	1,4%	-4,5%
14	91,6	3,0%	-5,0%
15	91,9	-0,2%	-2,1%
16	89,5	1,8%	-8,4%

Color Fidelity by Sample



Risalto M VariWhite +, Fresnel, Maximum Zoom, 3.200K

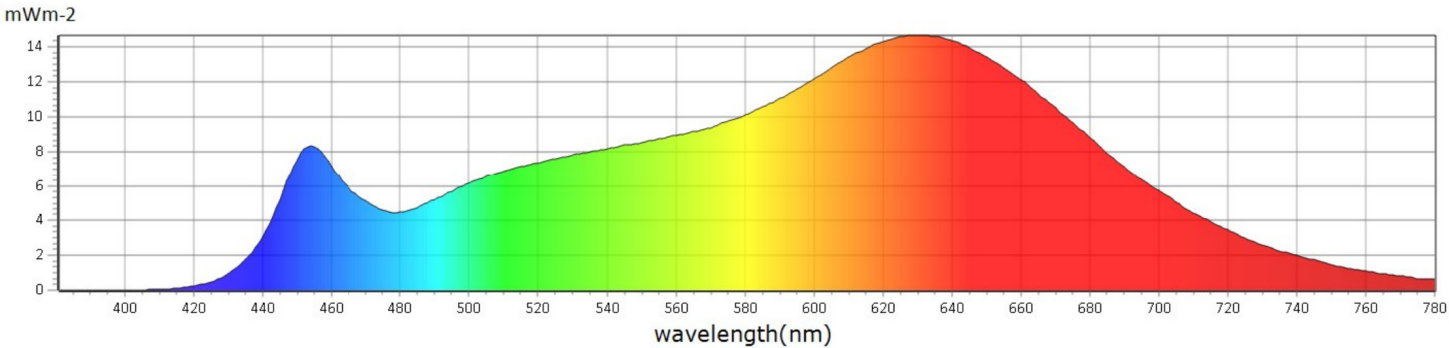
Measurements taken at 4.3 meters

General	
● CCT	3081 K
● x	0,4238
● y	0,3861
● LambdaD	585 nm
● LambdaP	628 nm

Measurements

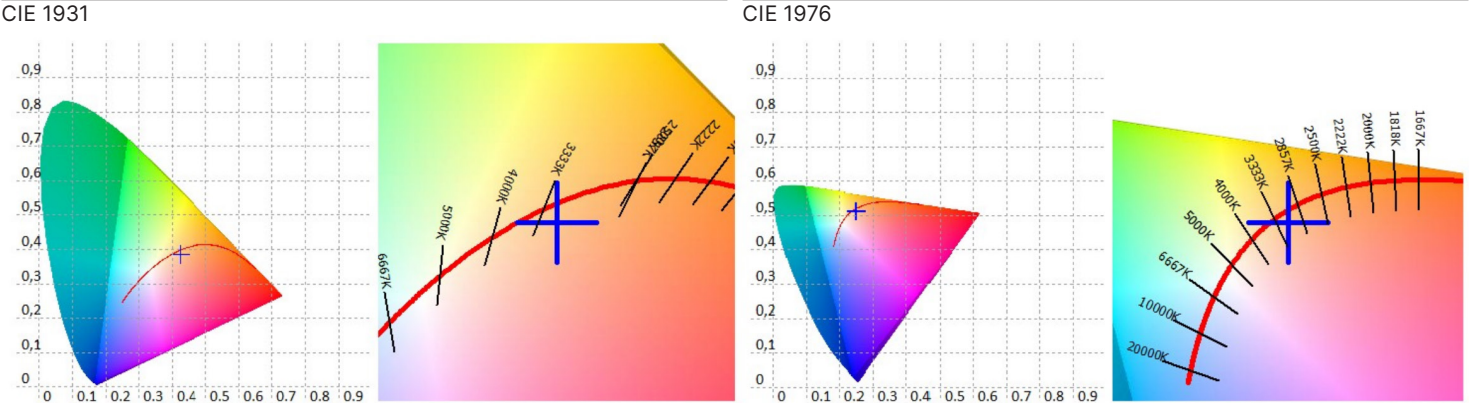
CCT : 3081 K	x10 : 0,4271	delta-x : -0,0075	LambdaD : 585 nm	PPFD : 11,86 umolm-2s-1	S/P : 1,58	R3 : 97,5	R10 : 91,4
LUX : 692,3 lx	y10 : 0,3868	delta-y : -0,0160	LambdaP : 628 nm	PFD : 12,99 umolm-2s-1	IRR : 2,615	R4 : 96,8	R11 : 93,0
I-Time : 18000 us	u'10 : 0,2517	delta-u' : 0,0020	Purity : 42,98%	PFD-B : 1,463 umolm-2s-1	CQS : 95,8	R5 : 95,0	R12 : 85,2
x : 0,4238	v'10 : 0,5129	delta-v' : -0,0077	fc : 64,34	PFD-G : 4,083 umolm-2s-1	CRI : 95,4	R6 : 91,3	R13 : 94,6
y : 0,3861	X : 759,87	Duv : -0,0055	Rf : 94,7	PFD-R : 6,316 umolm-2s-1	TLCI : 97,3	R7 : 95,3	R14 : 99,0
u' : 0,2498	Y : 692,26	MEL : 441,3 lx	Rg : 102,3	PFD-UV : 0,0002 umolm-2s-1	R1 : 95,5	R8 : 96,6	R15 : 96,9
v' : 0,5121	Z : 340,87	LambdaPV : 14,68	GAI : 69,1	PFD-FR : 1,125 umolm-2s-1	R2 : 95,4	R9 : 95,9	

Spectrum



Risalto M VariWhite +, Fresnel, Maximum Zoom, 3.200K

Measurements taken at 4.3 meters



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,5	95,4	97,5	96,8	95,0	91,3	95,3	96,6	95,9	91,4	93,0	85,2	94,6	99,0	96,9

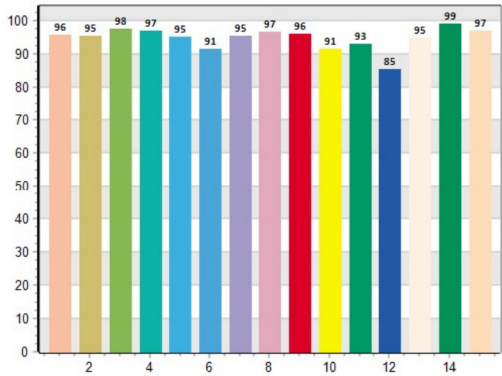
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,7	96,7	95,3	95,9	94,3	96,1	93,2	96,6	94,1	93,8	93,0	90,1	92,4	91,1	91,7	89,4

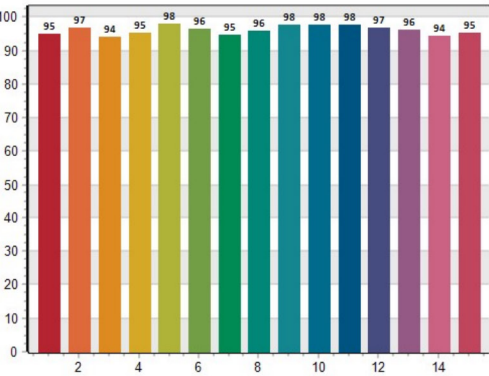
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,9	96,7	94,1	95,5	98,0	96,4	94,9	96,0	97,6	97,8	97,6	96,9	96,1	94,4	95,2

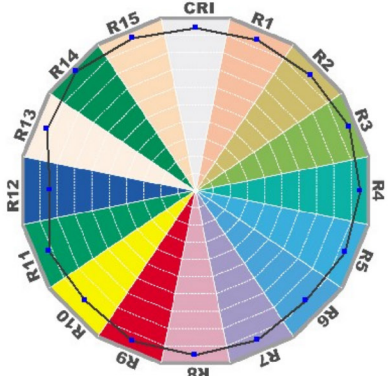
CRI: 95.42



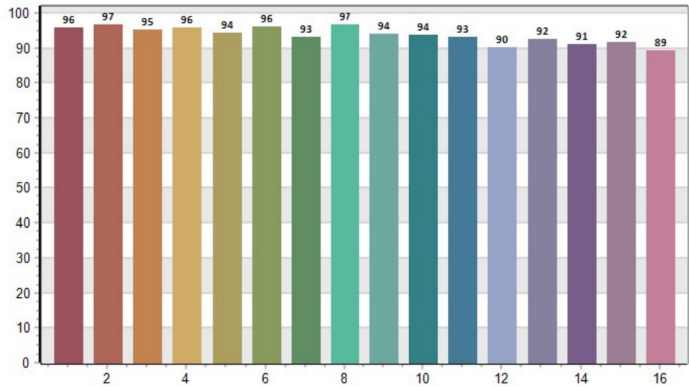
CQS: 95.84



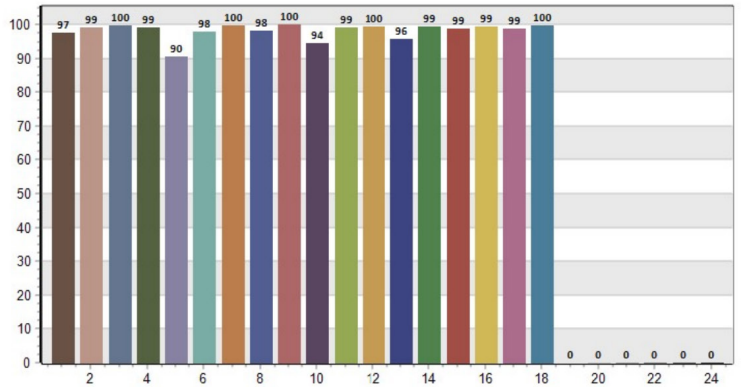
CRI-2



TM30: 94.74



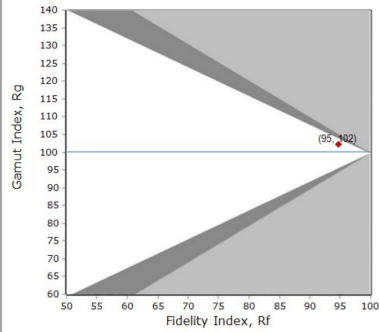
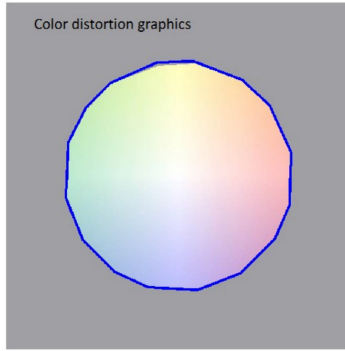
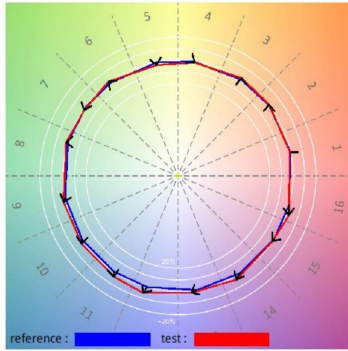
TLCI: 97.27



Risalto M VariWhite +, Fresnel, Maximum Zoom, 3.200K

Measurements taken at 4.3 meters

General Color Rendition

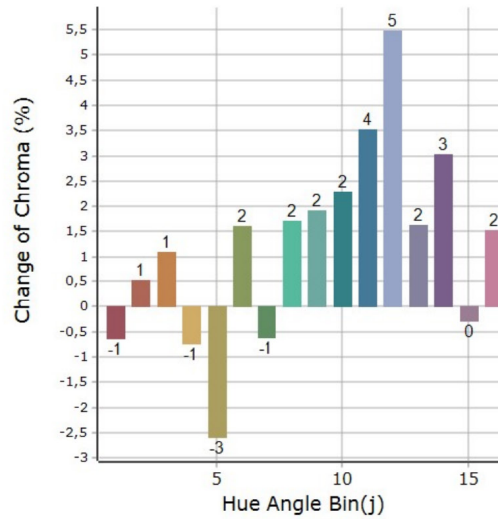
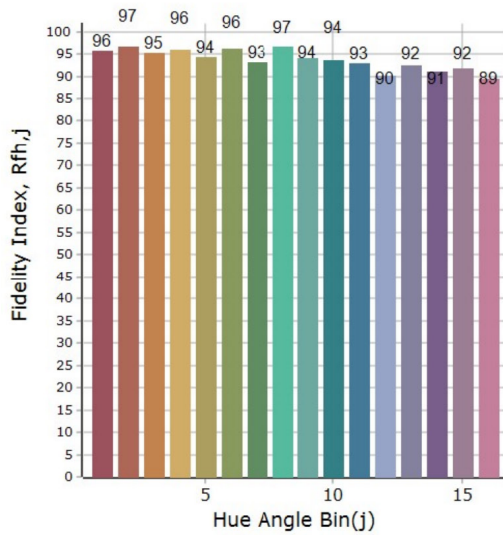
**Rf 94,7**

Fidelity index Rf

Rg 102,3

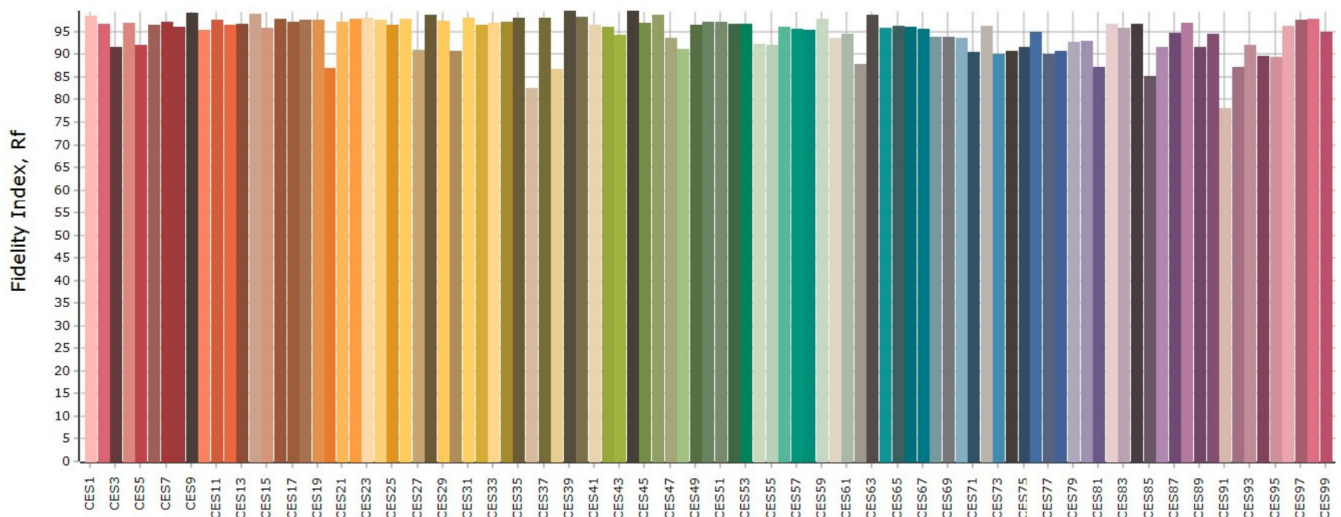
Gamut index Rg

Color Rendition by Hue



		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	95,7	-0,6%	0,8%
2	96,6	0,5%	0,5%
3	95,3	1,1%	0,7%
4	95,9	-0,7%	-1,5%
5	94,2	-2,6%	-0,1%
6	96,1	1,6%	0,7%
7	93,2	-0,6%	2,0%
8	96,6	1,7%	0,5%
9	94,1	1,9%	3,6%
10	93,6	2,3%	2,6%
11	92,9	3,5%	2,6%
12	90,0	5,5%	-2,4%
13	92,4	1,6%	-5,0%
14	91,1	3,0%	-5,5%
15	91,7	-0,3%	-2,4%
16	89,4	1,5%	-8,5%

Color Fidelity by Sample



Risalto M VariWhite +, Fresnel, Minimum Zoom, 4.000K

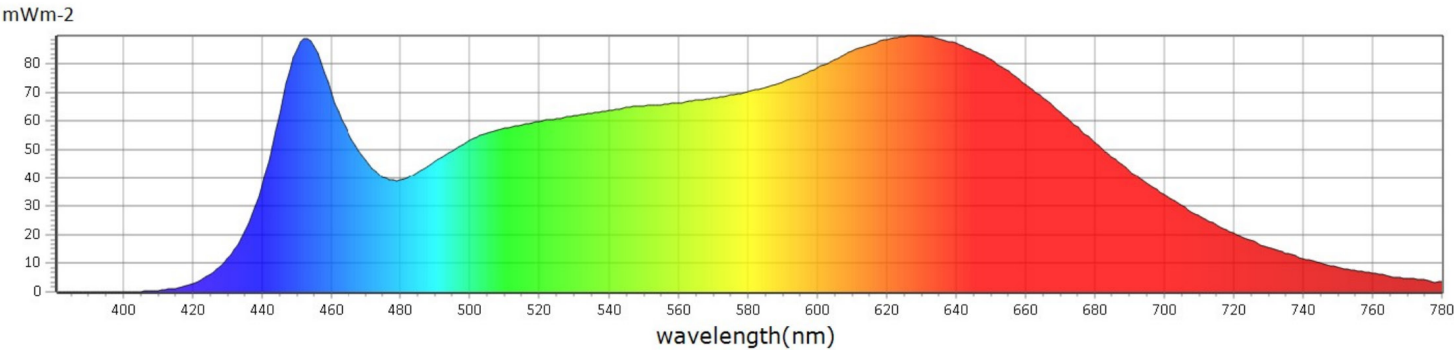
Measurements taken at 4.3 meters

General	
● CCT	3863 K
● x	0,3819
● y	0,3646
● LambdaD	584 nm
● LambdaP	627 nm

Measurements

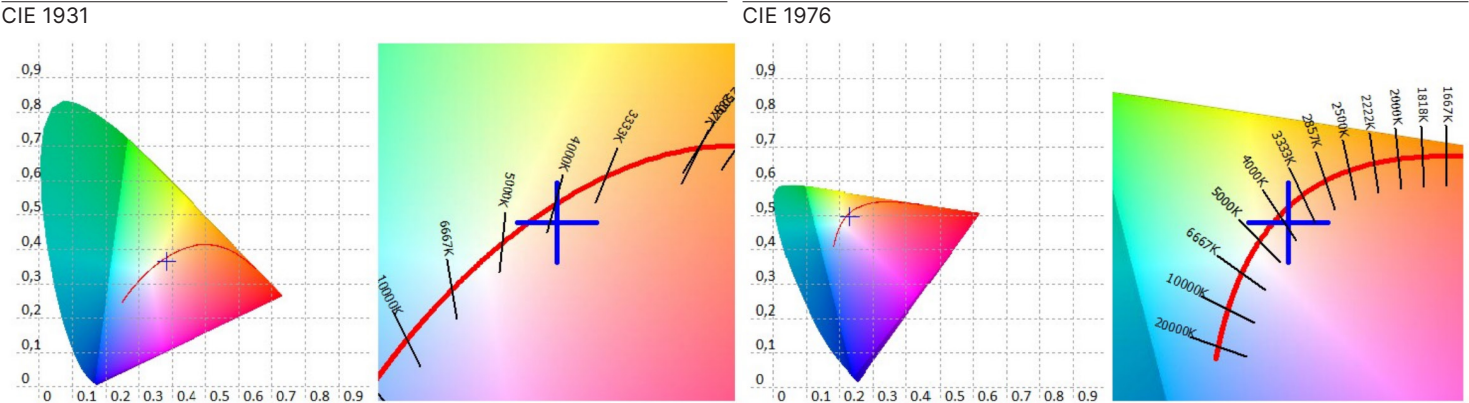
CCT : 3863 K	x10 : 0,3846	delta-x : -0,0048	LambdaD : 584 nm	PPFD : 83,09 umolm-2s-1	S/P : 1,86	R3 : 98,8	R10 : 93,0
LUX : 4964 lx	y10 : 0,3662	delta-y : -0,0160	LambdaP : 627 nm	PFD : 89,75 umolm-2s-1	IRR : 18,50	R4 : 96,3	R11 : 93,2
I-Time : 2400 us	u'10 : 0,2322	delta-u' : 0,0034	Purity : 23,91%	PFD-B : 14,36 umolm-2s-1	CQS : 96,9	R5 : 95,2	R12 : 83,7
x : 0,3819	v'10 : 0,4975	delta-v' : -0,0079	fc : 461,3	PFD-G : 30,26 umolm-2s-1	CRI : 96,3	R6 : 93,2	R13 : 94,4
y : 0,3646	X : 5199,21	Duv : -0,0062	Rf : 94,3	PFD-R : 38,47 umolm-2s-1	TLCI : 97,9	R7 : 97,7	R14 : 98,6
u' : 0,2310	Y : 4963,99	MEL : 3887 lx	Rg : 102,5	PFD-UV : 0,0012 umolm-2s-1	R1 : 94,7	R8 : 98,3	R15 : 94,1
v' : 0,4963	Z : 3451,67	LambdaPV : 89,86	GAI : 85,3	PFD-FR : 6,664 umolm-2s-1	R2 : 96,0	R9 : 93,3	

Spectrum



Risalto M VariWhite +, Fresnel, Minimum Zoom, 4.000K

Measurements taken at 4.3 meters



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,7	96,0	98,8	96,3	95,2	93,2	97,7	98,3	93,3	93,0	93,2	83,7	94,4	98,6	94,1

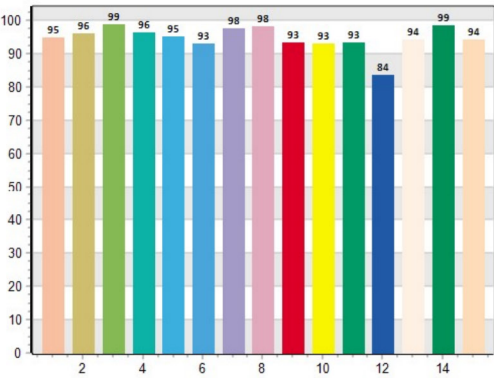
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,4	96,0	96,1	95,3	94,0	96,4	95,3	93,6	92,2	93,6	89,5	91,0	95,3	90,9	91,6	90,0

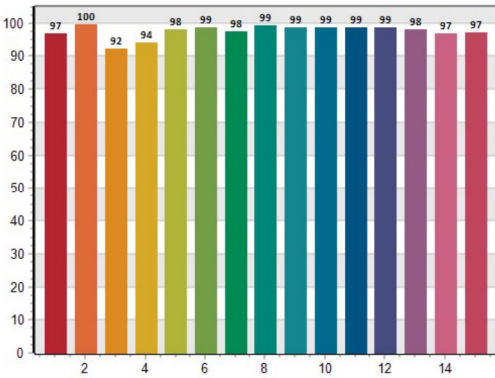
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,9	99,6	92,4	94,0	98,1	98,7	97,6	99,2	98,7	98,5	98,6	98,6	98,1	96,7	97,1

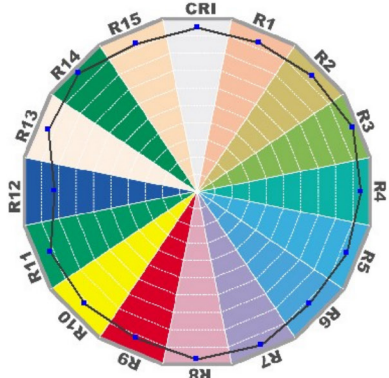
CRI: 96.25



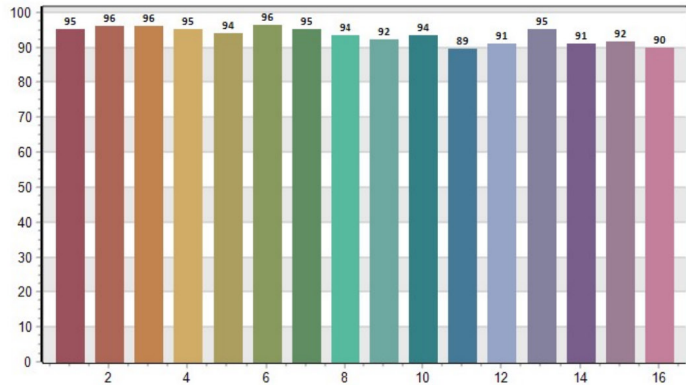
CQS: 96.88



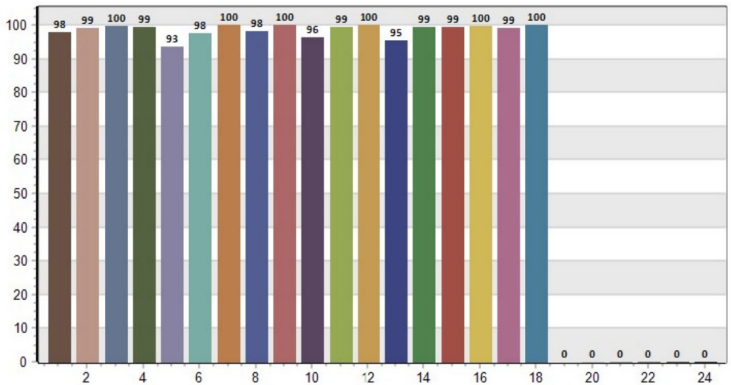
CRI-2



TM30: 94.34



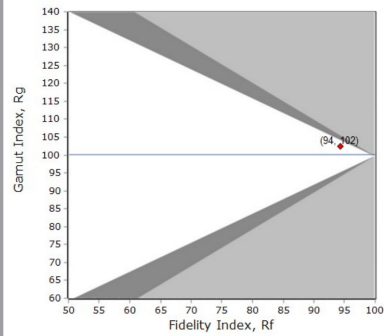
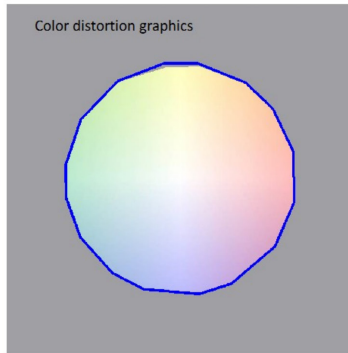
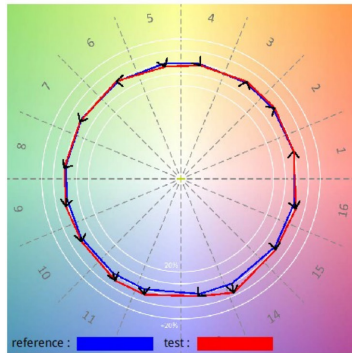
TLCI: 97.87



Risalto M VariWhite +, Fresnel, Minimum Zoom, 4.000K

Measurements taken at 4.3 meters

General Color Rendition

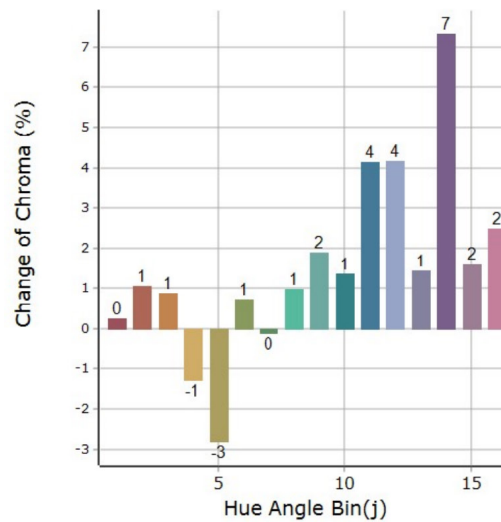
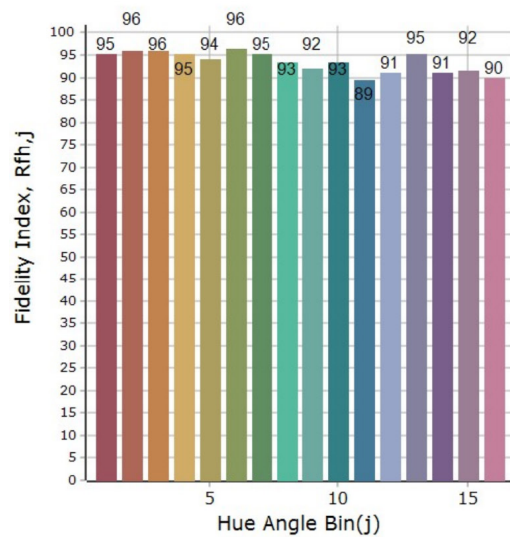
**Rf 94,3**

Fidelity index Rf

Rg 102,4

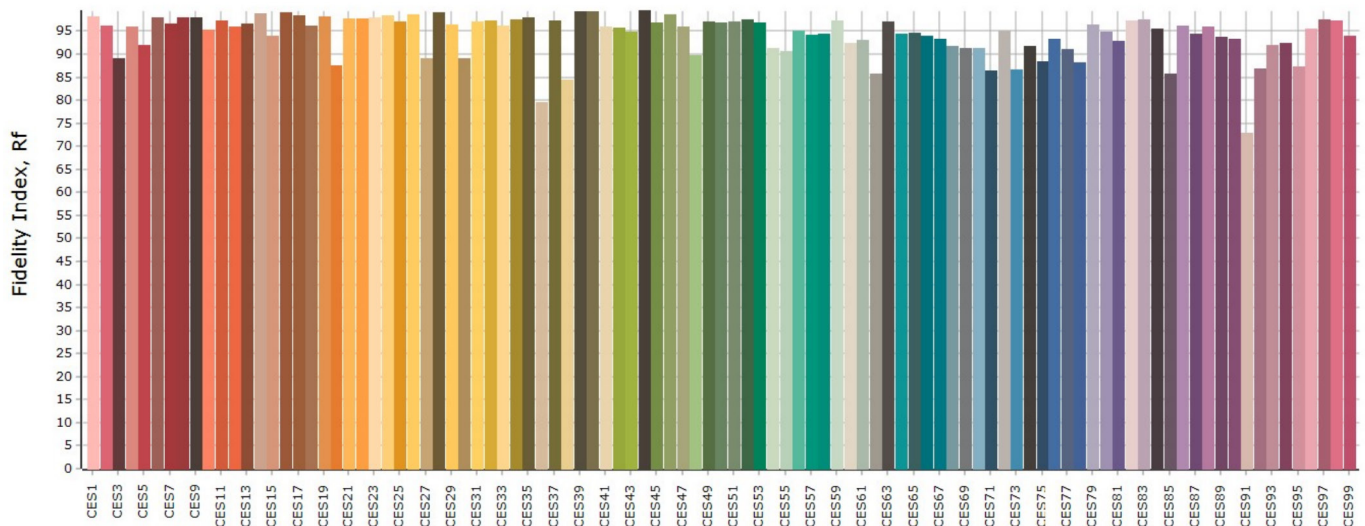
Gamut index Rg

Color Rendition by Hue



		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	95,3	0,2%	0,5%
2	95,9	1,0%	0,1%
3	96,0	0,9%	0,4%
4	95,2	-1,3%	-1,3%
5	94,0	-2,8%	-0,6%
6	96,4	0,7%	1,1%
7	95,2	-0,1%	2,1%
8	93,4	1,0%	2,6%
9	92,0	1,9%	6,8%
10	93,5	1,4%	3,4%
11	89,4	4,2%	5,1%
12	90,9	4,2%	0,8%
13	95,3	1,4%	-2,4%
14	90,9	7,3%	-3,1%
15	91,5	1,6%	-1,8%
16	90,0	2,5%	-5,2%

Color Fidelity by Sample



Risalto M VariWhite +, Fresnel, Maximum Zoom, 4.000K

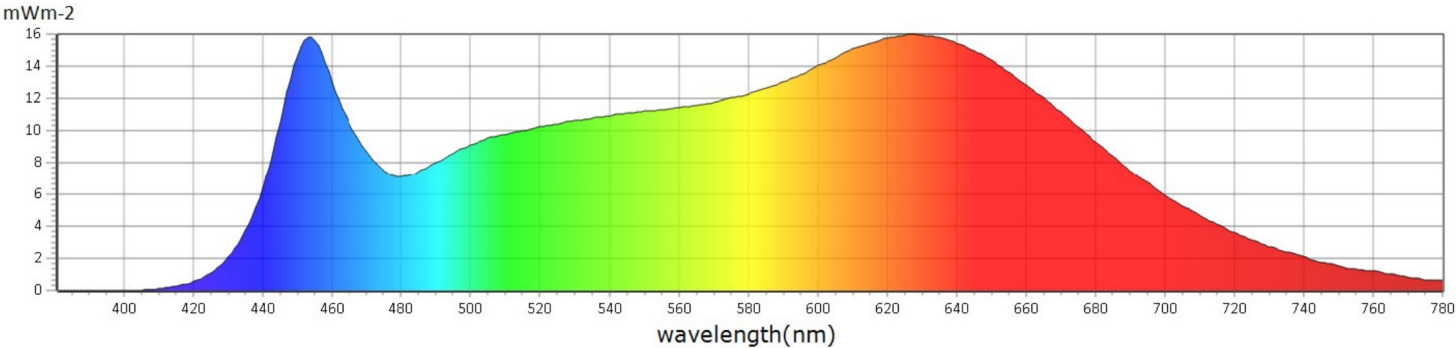
Measurements taken at 4.3 meters

General	
● CCT	3809 K
● x	0,3826
● y	0,3605
● LambdaD	585 nm
● LambdaP	626 nm

Measurements

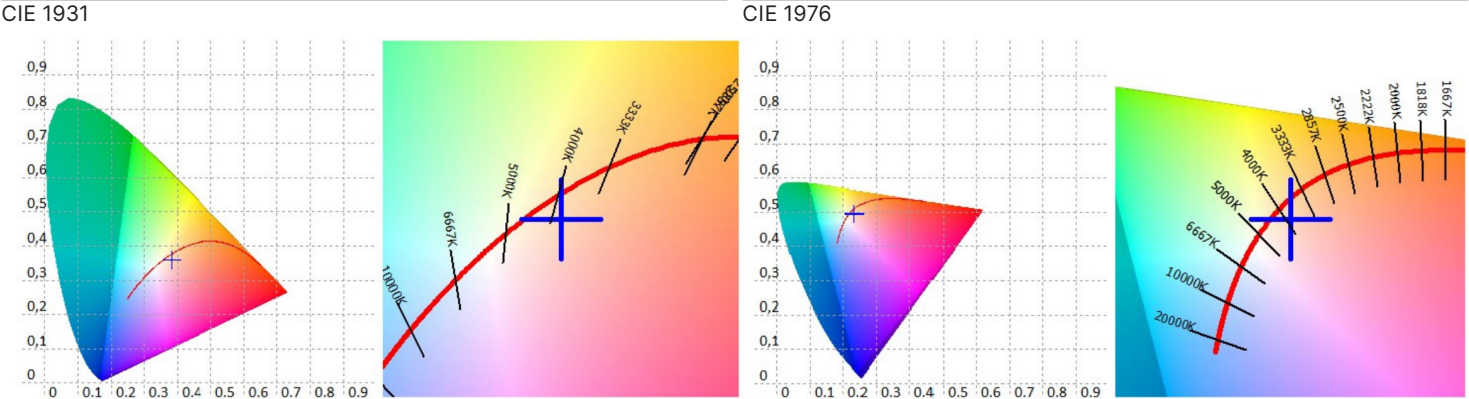
CCT : 3809 K	x10 : 0,3850	delta-x : -0,0067	LambdaD : 585 nm	PPFD : 14,62 $\mu\text{molm}^{-2}\text{s}^{-1}$	S/P : 1,86	R3 : 98,1	R10 : 89,7
LUX : 864,8 lx	y10 : 0,3625	delta-y : -0,0216	LambdaP : 626 nm	PFD : 15,80 $\mu\text{molm}^{-2}\text{s}^{-1}$	IRR : 3,256	R4 : 95,7	R11 : 92,5
I-Time : 12000 us	u'10 : 0,2340	delta-u' : 0,0045	Purity : 23,08%	PFD-B : 2,565 $\mu\text{molm}^{-2}\text{s}^{-1}$	CQS : 96,6	R5 : 93,6	R12 : 82,6
x : 0,3826	v'10 : 0,4958	delta-v' : -0,0107	fc : 80,37	PFD-G : 5,236 $\mu\text{molm}^{-2}\text{s}^{-1}$	CRI : 95,1	R6 : 91,0	R13 : 92,7
y : 0,3605	X : 917,74	Duv : -0,0084	Rf : 94,0	PFD-R : 6,818 $\mu\text{molm}^{-2}\text{s}^{-1}$	TLCI : 97,7	R7 : 96,6	R14 : 98,7
u' : 0,2332	Y : 864,78	MEL : 682,2 lx	Rg : 102,7	PFD-UV : 0,0003 $\mu\text{molm}^{-2}\text{s}^{-1}$	R1 : 93,3	R8 : 97,8	R15 : 92,5
v' : 0,4945	Z : 616,34	LambdaPV : 16,00	GAI : 87,1	PFD-FR : 1,179 $\mu\text{molm}^{-2}\text{s}^{-1}$	R2 : 94,3	R9 : 91,3	

Spectrum



Risalto M VariWhite +, Fresnel, Maximum Zoom, 4.000K

Measurements taken at 4.3 meters



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,3	94,3	98,1	95,7	93,6	91,0	96,6	97,8	91,3	89,7	92,5	82,6	92,7	98,7	92,5

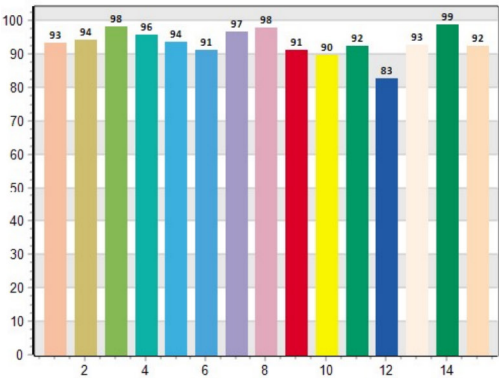
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,9	95,2	95,5	95,0	93,9	96,1	94,9	92,7	91,5	93,3	89,5	90,7	94,8	92,1	91,4	89,8

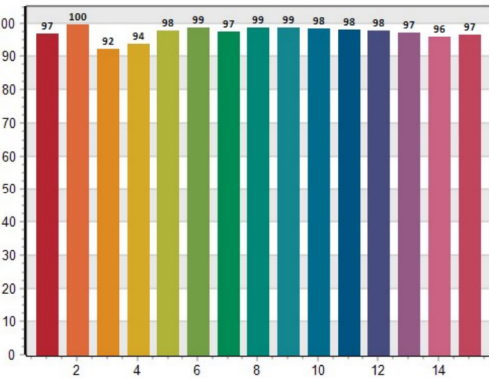
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,9	99,6	92,2	93,8	97,8	98,7	97,4	98,8	98,7	98,4	98,1	97,7	97,1	95,9	96,6

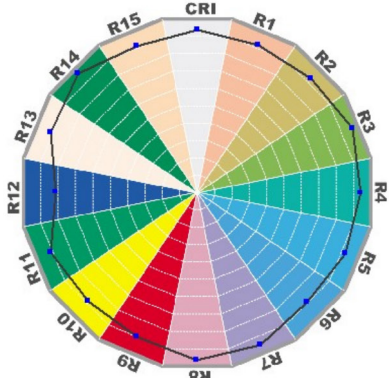
CRI: 95.05



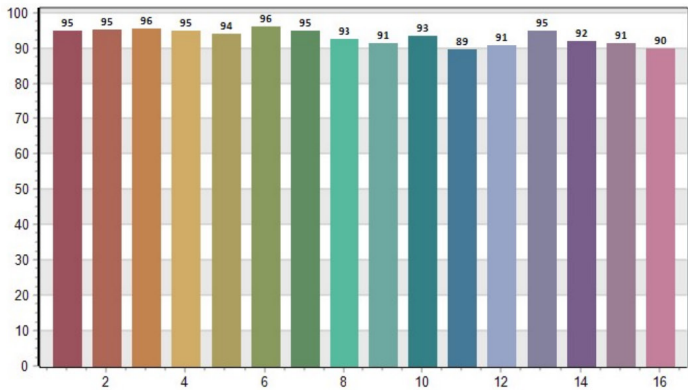
CQS: 96.60



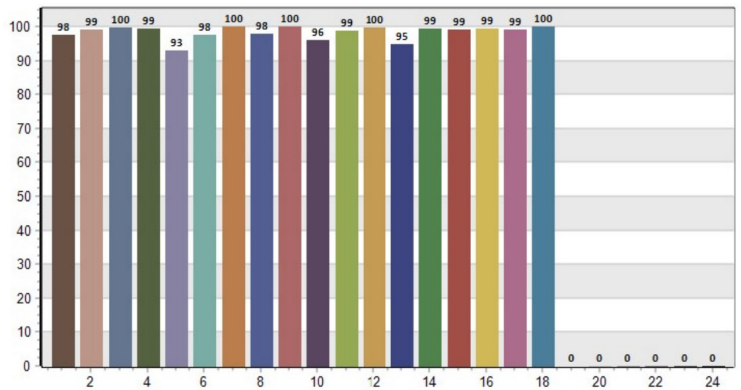
CRI-2



TM30: 94.03



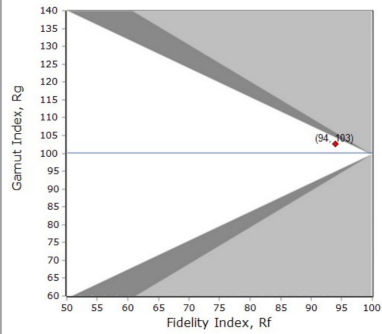
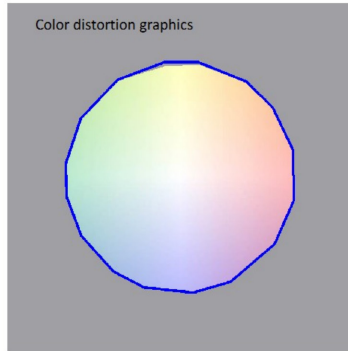
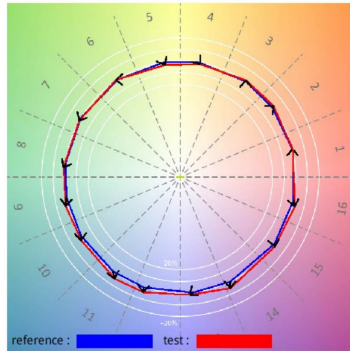
TLCI: 97.67



Risalto M VariWhite +, Fresnel, Maximum Zoom, 4.000K

Measurements taken at 4.3 meters

General Color Rendition

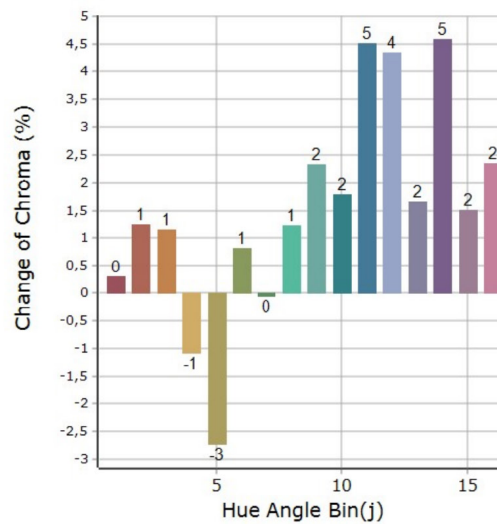
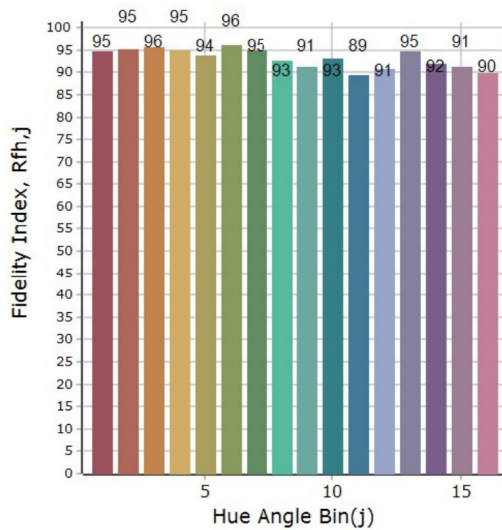
**Rf 94,0**

Fidelity index Rf

Rg 102,6

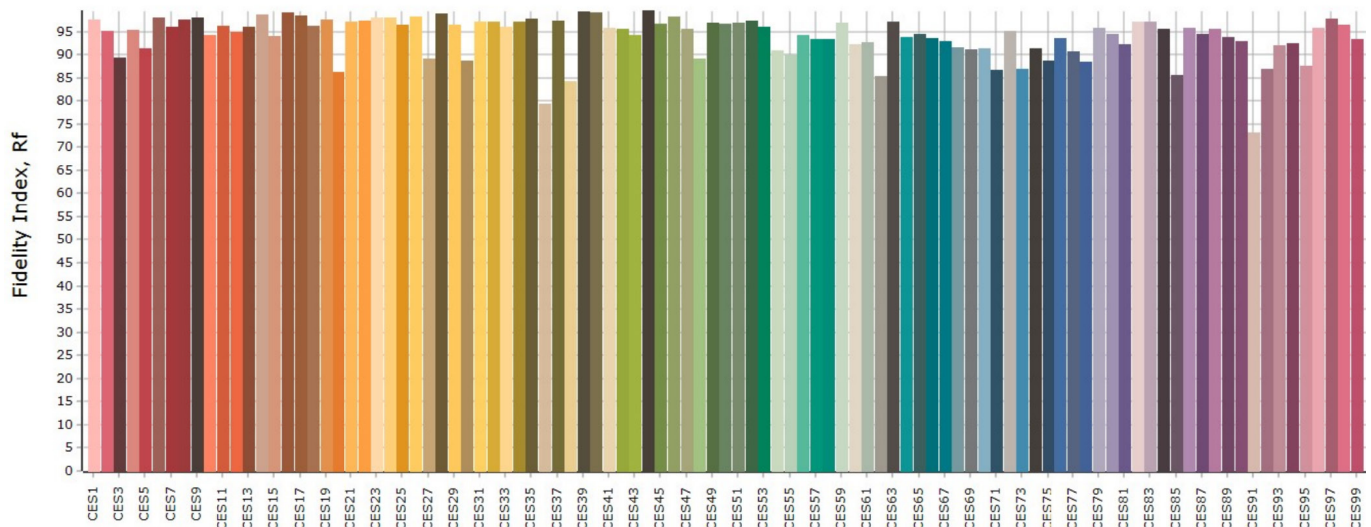
Gamut index Rg

Color Rendition by Hue



		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	94,8	0,3%	0,8%
2	95,1	1,2%	0,4%
3	95,5	1,2%	0,5%
4	94,9	-1,1%	-1,4%
5	93,8	-2,7%	-0,8%
6	96,1	0,8%	1,1%
7	94,9	0,0%	2,2%
8	92,6	1,2%	2,9%
9	91,3	2,3%	7,2%
10	93,2	1,8%	3,4%
11	89,4	4,5%	4,8%
12	90,7	4,3%	0,4%
13	94,7	1,7%	-2,9%
14	92,0	4,6%	-3,0%
15	91,3	1,5%	-1,7%
16	89,8	2,4%	-4,9%

Color Fidelity by Sample



Risalto M VariWhite +, Fresnel, Minimum Zoom, 5.600K

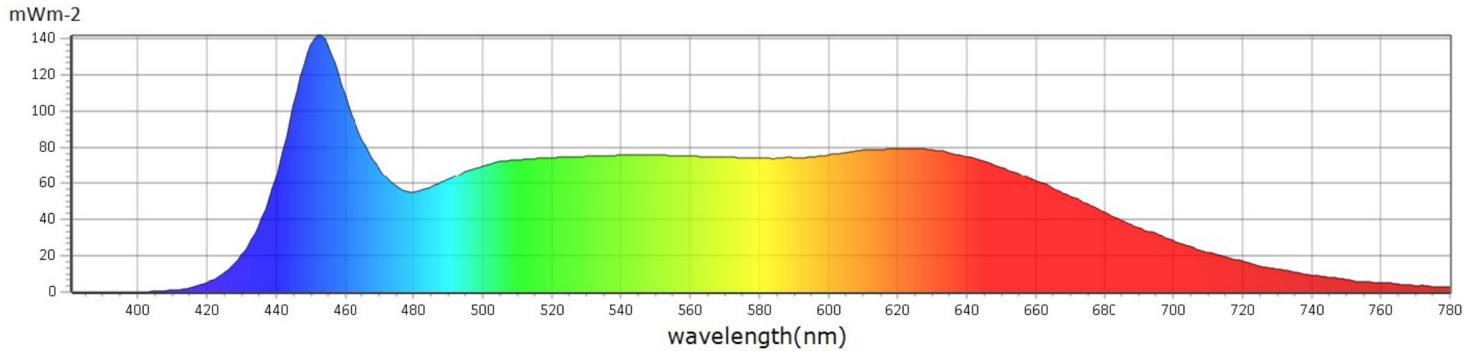
Measurements taken at 4.3 meters

General	
● CCT	5362 K
● x	0,3354
● y	0,3357
● LambdaD	576 nm
● LambdaP	451 nm

Measurements

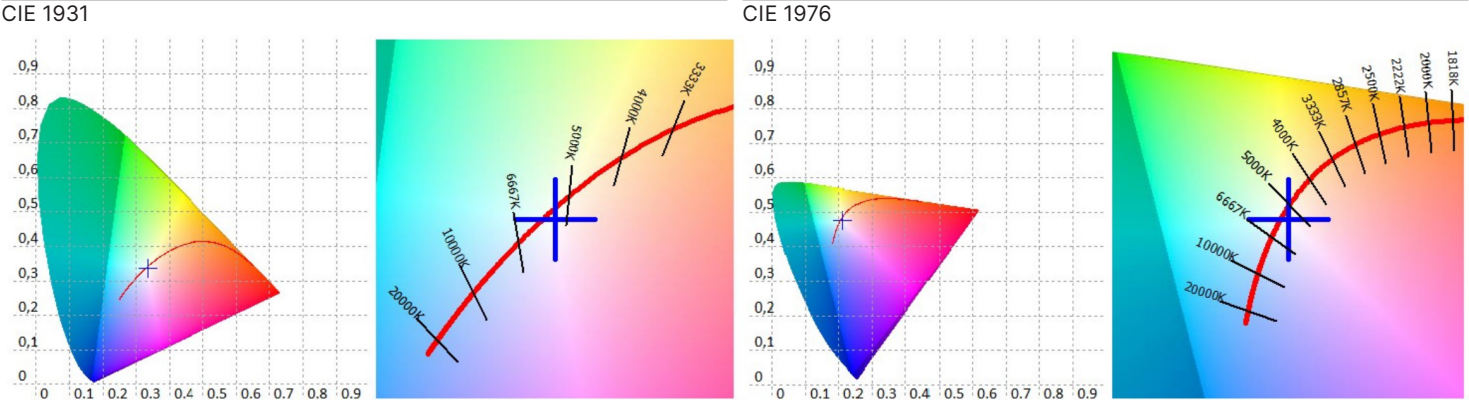
CCT : 5362 K	x10 : 0,3378	delta-x : -0,0003	LambdaD : 576 nm	PPFD : 89,47 umolm-2s-1	S/P : 2,23	R3 : 97,4	R10 : 95,9
LUX : 5445 lx	y10 : 0,3390	delta-y : -0,0082	LambdaP : 451 nm	PFD : 94,88 umolm-2s-1	IRR : 20,20	R4 : 96,7	R11 : 94,1
I-Time : 1400 us	u'10 : 0,2114	delta-u' : 0,0030	Purity : 1,33%	PFD-B : 21,72 umolm-2s-1	CQS : 95,2	R5 : 96,3	R12 : 81,8
x : 0,3354	v'10 : 0,4773	delta-v' : -0,0042	fc : 506,0	PFD-G : 34,32 umolm-2s-1	CRI : 96,7	R6 : 93,9	R13 : 95,5
y : 0,3357	X : 5440,04	Duv : -0,0041	Rf : 93,8	PFD-R : 33,43 umolm-2s-1	TLCI : 98,4	R7 : 98,1	R14 : 98,1
u' : 0,2110	Y : 5445,07	MEL : 5325 lx	Rg : 102,3	PFD-UV : 0,0024 umolm-2s-1	R1 : 95,5	R8 : 98,7	R15 : 94,6
v' : 0,4752	Z : 5335,12	LambdaPV : 141,6	GAI : 97,6	PFD-FR : 5,416 umolm-2s-1	R2 : 97,1	R9 : 93,8	

Spectrum



Risalto M VariWhite +, Fresnel, Minimum Zoom, 5.600K

Measurements taken at 4.3 meters



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,5	97,1	97,4	96,7	96,3	93,9	98,1	98,7	93,8	95,9	94,1	81,8	95,5	98,1	94,6

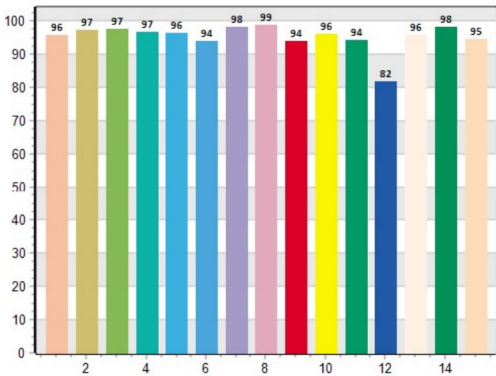
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	95,7	94,6	94,8	94,0	96,3	95,6	93,1	92,1	89,6	86,4	95,0	94,2	94,1	86,4	94,4

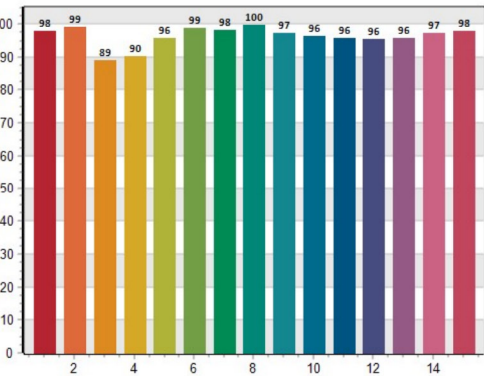
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,8	99,1	89,0	90,0	95,8	98,7	98,0	99,6	97,1	96,3	95,7	95,5	95,7	97,3	97,8

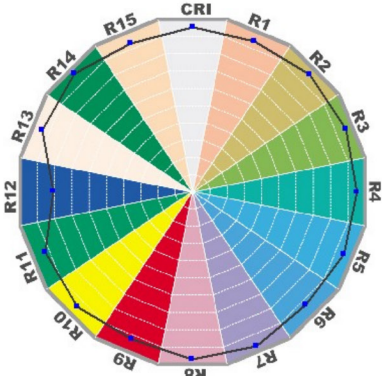
CRI: 96.71



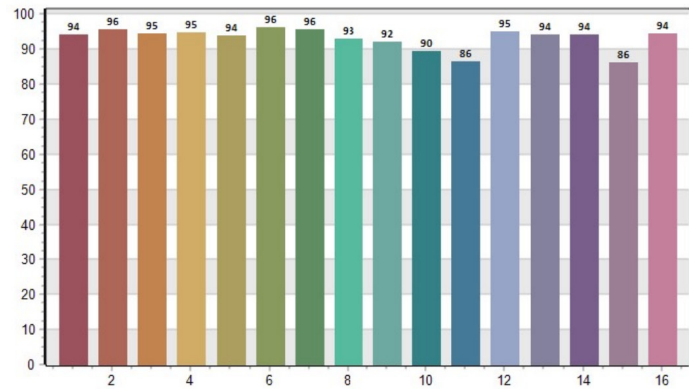
CQS: 95.23



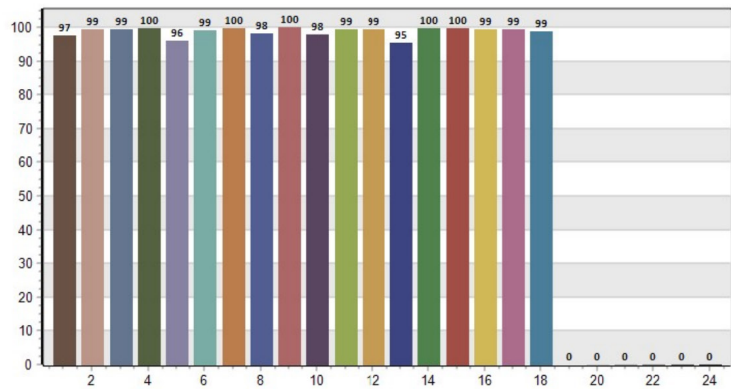
CRI-2



TM30: 93.81



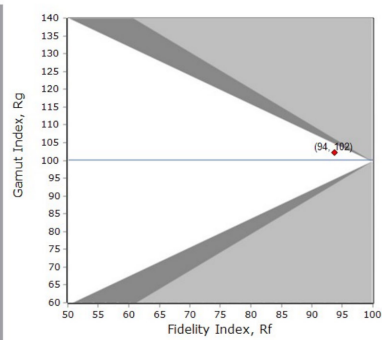
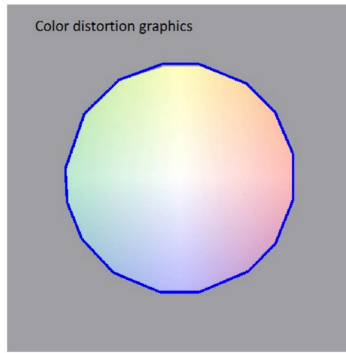
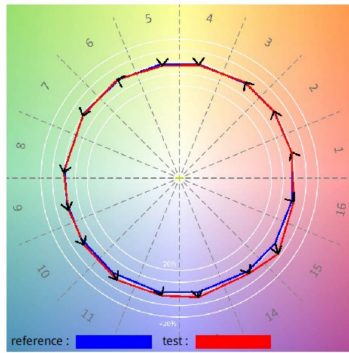
TLCI: 98.39



Risalto M VariWhite +, Fresnel, Minimum Zoom, 5.600K

Measurements taken at 4.3 meters

General Color Rendition

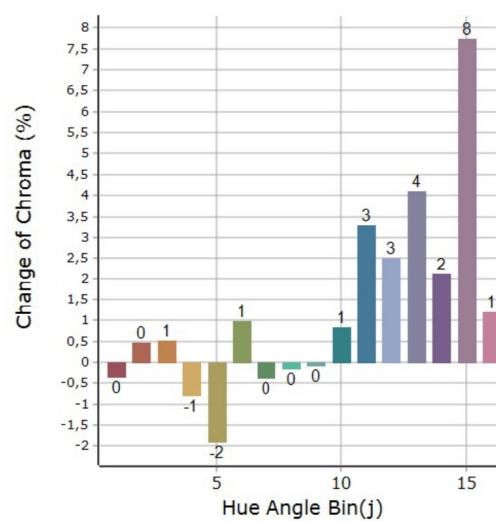
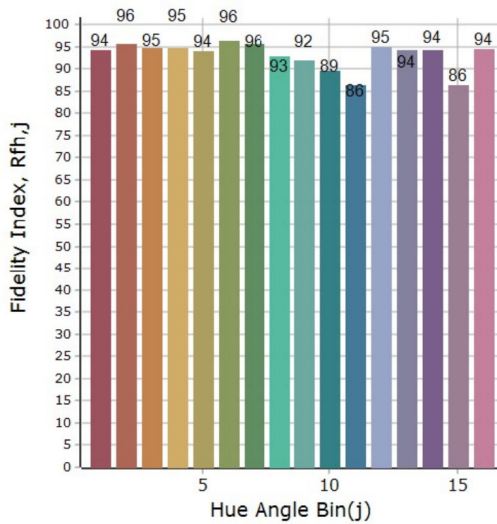
**Rf 93,8**

Fidelity index Rf

Rg 102,3

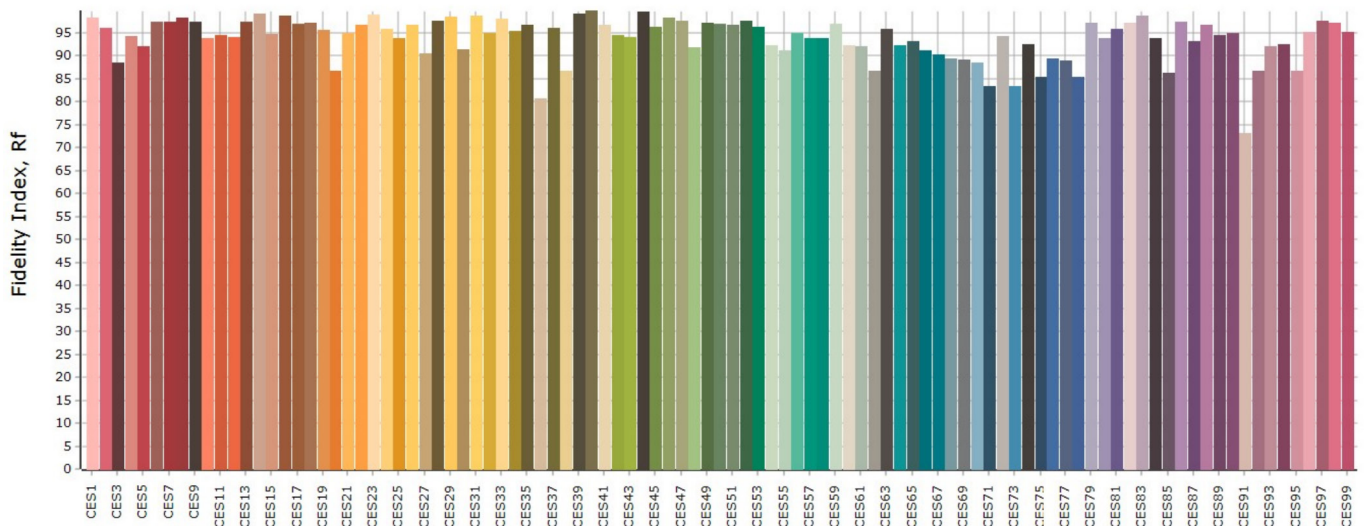
Gamut index Rg

Color Rendition by Hue



		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	94,2	-0,3%	0,6%
2	95,6	0,5%	1,3%
3	94,6	0,5%	1,2%
4	94,8	-0,8%	0,1%
5	93,9	-1,9%	0,3%
6	96,3	1,0%	1,0%
7	95,6	-0,4%	1,8%
8	92,9	-0,1%	3,2%
9	92,0	-0,1%	6,4%
10	89,5	0,8%	5,9%
11	86,4	3,3%	6,9%
12	95,0	2,5%	1,5%
13	94,2	4,1%	-0,1%
14	94,1	2,1%	0,1%
15	86,3	7,7%	-6,3%
16	94,4	1,2%	-1,2%

Color Fidelity by Sample



Risalto M VariWhite +, Fresnel, Maximum Zoom, 5.600K

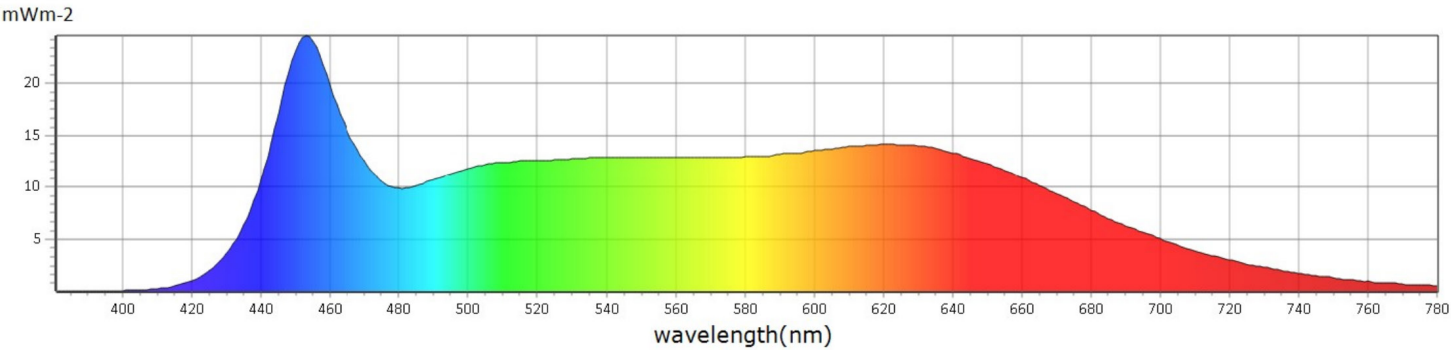
Measurements taken at 4.3 meters

General	
● CCT	5273 K
● x	0,3372
● y	0,3328
● LambdaD	639 nm
● LambdaP	452 nm

Measurements

CCT : 5273 K	x10 : 0,3394	delta-x : -0,0006	LambdaD : 639 nm	PPFD : 15,65 $\mu\text{mol/m}^2\text{s}^{-1}$	S/P : 2,22	R3 : 98,0	R10 : 92,8
LUX : 942,6 lx	y10 : 0,3365	delta-y : -0,0129	LambdaP : 452 nm	PFD : 16,62 $\mu\text{mol/m}^2\text{s}^{-1}$	IRR : 3,533	R4 : 95,8	R11 : 92,9
I-Time : 8400 us	u'10 : 0,2135	delta-u' : 0,0047	Purity : 1,02%	PFD-B : 3,810 $\mu\text{mol/m}^2\text{s}^{-1}$	CQS : 94,9	R5 : 94,4	R12 : 82,1
x : 0,3372	v'10 : 0,4762	delta-v' : -0,0067	fc : 87,60	PFD-G : 5,903 $\mu\text{mol/m}^2\text{s}^{-1}$	CRI : 95,6	R6 : 92,4	R13 : 93,4
y : 0,3328	X : 955,16	Duv : -0,0065	Rf : 93,5	PFD-R : 5,932 $\mu\text{mol/m}^2\text{s}^{-1}$	TLCI : 98,3	R7 : 97,7	R14 : 98,2
u' : 0,2135	Y : 942,60	MEL : 923,8 lx	Rg : 102,7	PFD-UV : 0,0010 $\mu\text{mol/m}^2\text{s}^{-1}$	R1 : 93,6	R8 : 97,5	R15 : 92,2
v' : 0,4740	Z : 934,45	LambdaPV : 24,56	GAI : 99,0	PFD-FR : 0,9687 $\mu\text{mol/m}^2\text{s}^{-1}$	R2 : 95,4	R9 : 89,6	

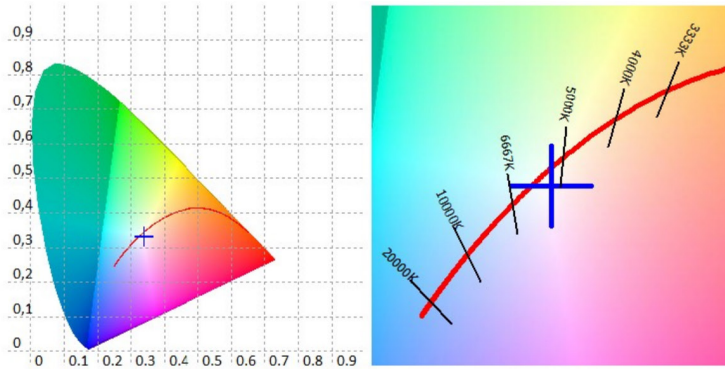
Spectrum



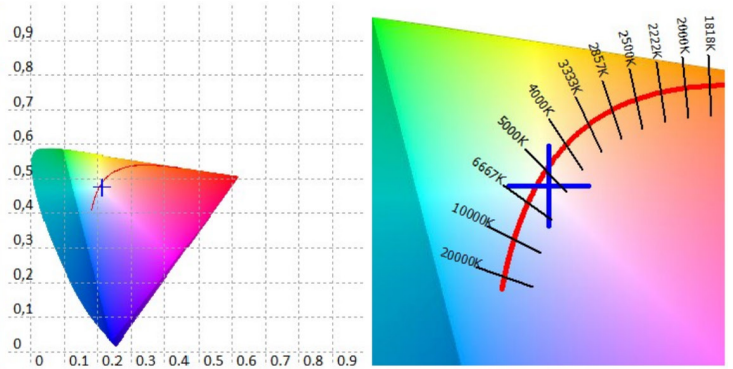
Risalto M VariWhite +, Fresnel, Maximum Zoom, 5.600K

Measurements taken at 4.3 meters

CIE 1931



CIE 1976



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,6	95,4	98,0	95,8	94,4	92,4	97,7	97,5	89,6	92,8	92,9	82,1	93,4	98,2	92,2

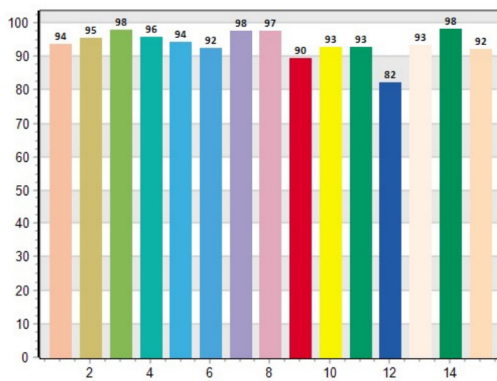
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,6	94,4	94,2	94,7	93,9	96,0	95,0	91,7	91,5	89,4	86,7	95,0	94,2	94,0	86,4	93,8

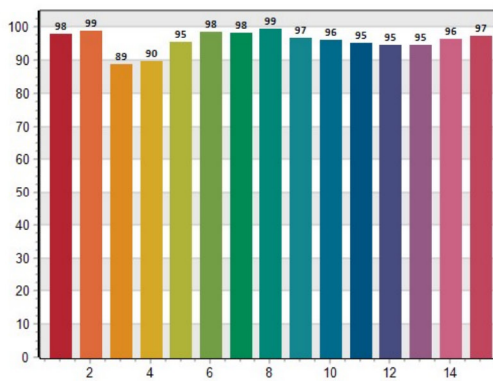
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,8	99,0	88,9	89,8	95,4	98,5	98,2	99,5	96,8	96,2	95,3	94,7	94,6	96,5	97,3

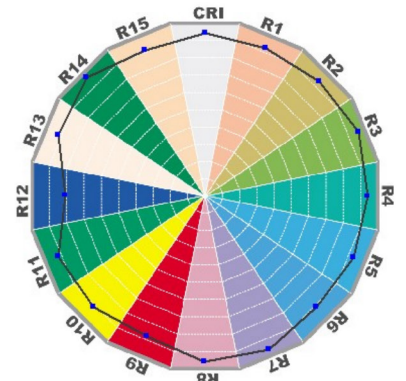
CRI: 95.59



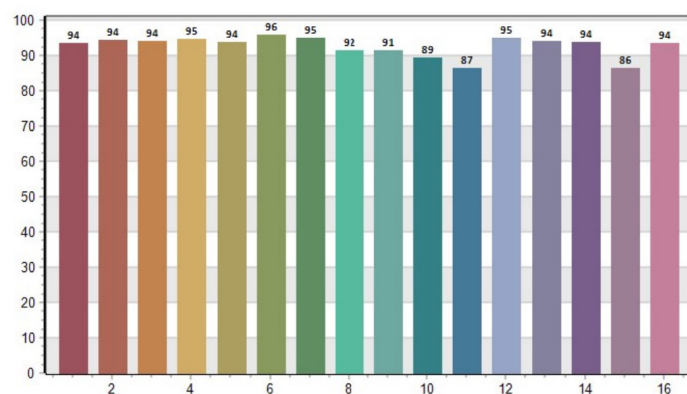
CQS: 94.95



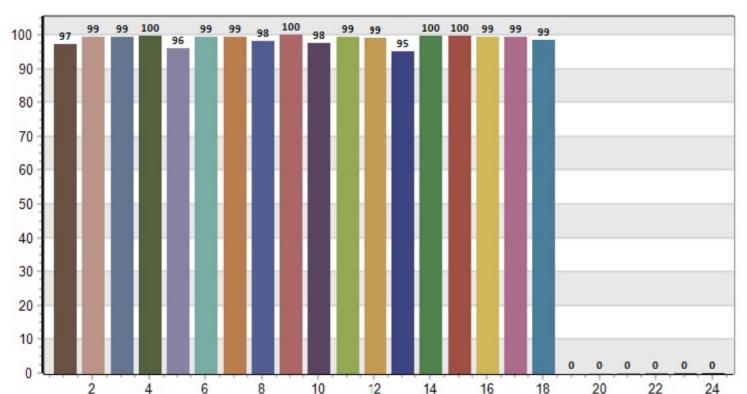
CRI-2



TM30: 93.48



TLCI: 98.28



Risalto M VariWhite +, Fresnel, Minimum Zoom, 6.500K

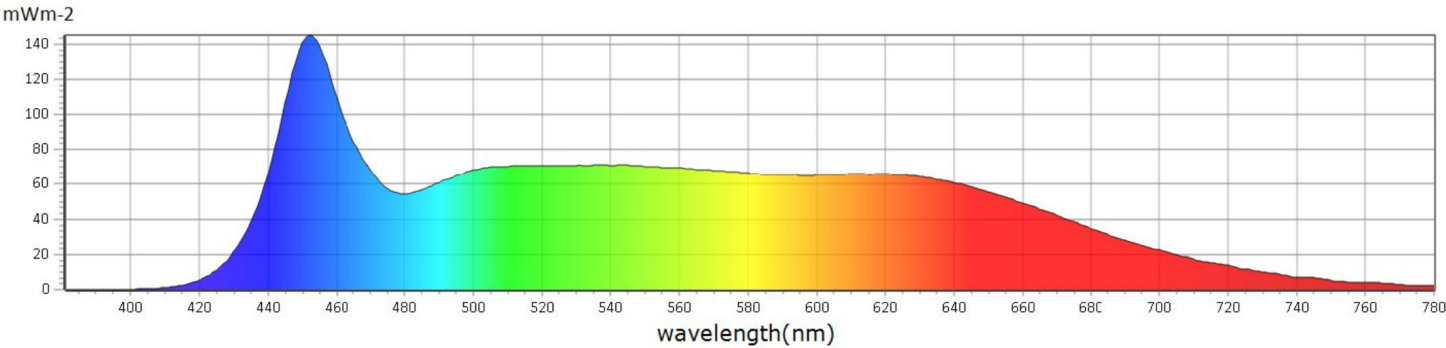
Measurements taken at 4.3 meters

General	
● CCT	6197 K
● x	0,3188
● y	0,3255
● LambdaD	484 nm
● LambdaP	451 nm

Measurements

CCT : 6197 K	x10 : 0,3213	delta-x : 0,0002	LambdaD : 484 nm	PPFD : 80,85 umol/m-2s-1	S/P : 2,37	R3 : 97,0	R10 : 97,5
LUX : 4959 lx	y10 : 0,3295	delta-y : -0,0030	LambdaP : 451 nm	PFD : 85,13 umol/m-2s-1	IRR : 18,37	R4 : 98,8	R11 : 96,5
I-Time : 1400 us	u'10 : 0,2036	delta-u' : 0,0013	Purity : 5,53%	PFD-B : 21,95 umol/m-2s-1	CQS : 94,8	R5 : 97,2	R12 : 77,9
x : 0,3188	v'10 : 0,4699	delta-v' : -0,0016	fc : 460,9	PFD-G : 31,69 umol/m-2s-1	CRI : 97,4	R6 : 94,0	R13 : 97,7
y : 0,3255	X : 4857,01	Duv : -0,0017	Rf : 93,2	PFD-R : 27,21 umol/m-2s-1	TLCI : 98,3	R7 : 98,1	R14 : 98,1
u' : 0,2034	Y : 4959,00	MEL : 5233 lx	Rg : 101,0	PFD-UV : 0,0031 umol/m-2s-1	R1 : 97,2	R8 : 98,7	R15 : 96,4
v' : 0,4673	Z : 5420,69	LambdaPV : 145,1	GAI : 99,3	PFD-FR : 4,278 umol/m-2s-1	R2 : 98,4	R9 : 97,0	

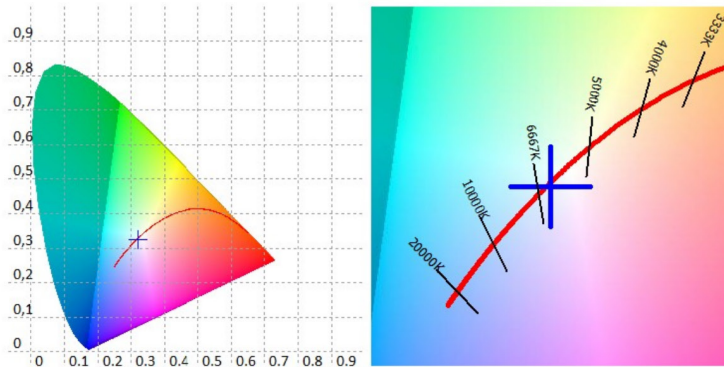
Spectrum



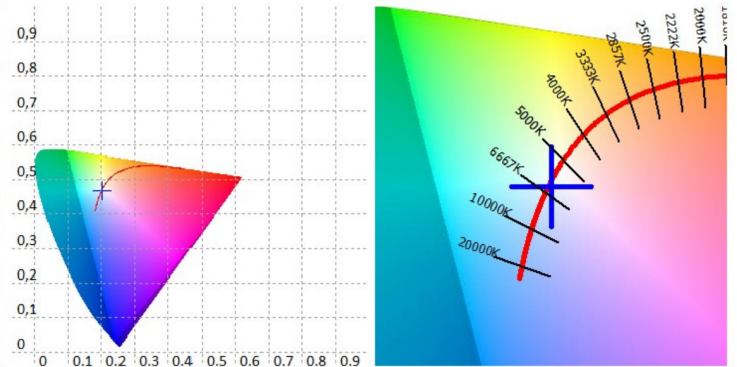
Risalto M VariWhite +, Fresnel, Minimum Zoom, 6.500K

Measurements taken at 4.3 meters

CIE 1931



CIE 1976



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,2	98,4	97,0	98,8	97,2	94,0	98,1	98,7	97,0	97,5	96,5	77,9	97,7	98,1	96,4

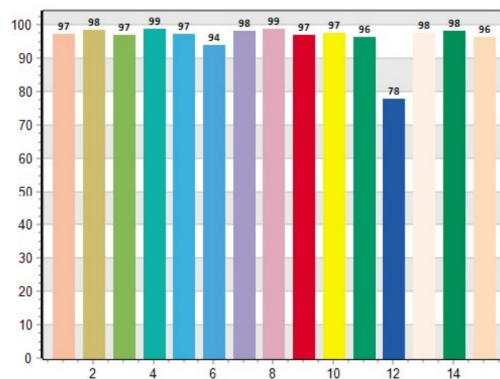
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,7	96,1	94,7	94,9	91,2	96,4	97,0	92,3	90,7	85,8	85,6	95,0	93,6	94,4	84,5	96,6

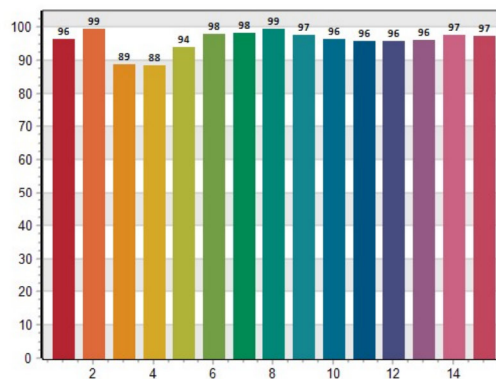
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,2	99,4	88,8	88,4	93,9	97,7	98,1	99,3	97,4	96,4	95,6	95,7	96,1	97,5	97,2

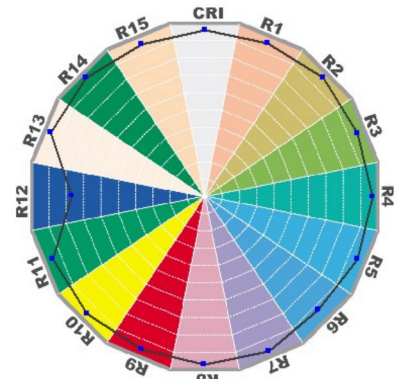
CRI: 97.44



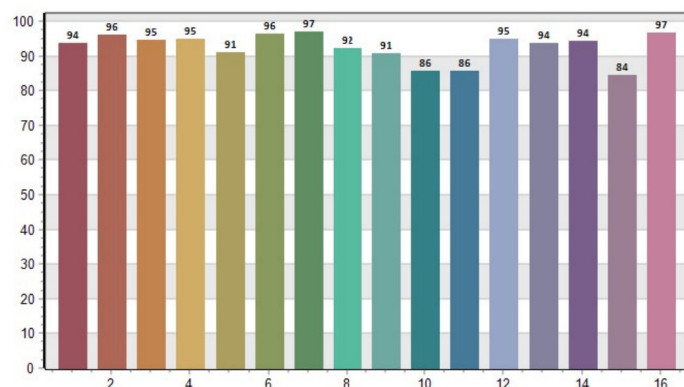
CQS: 94.79



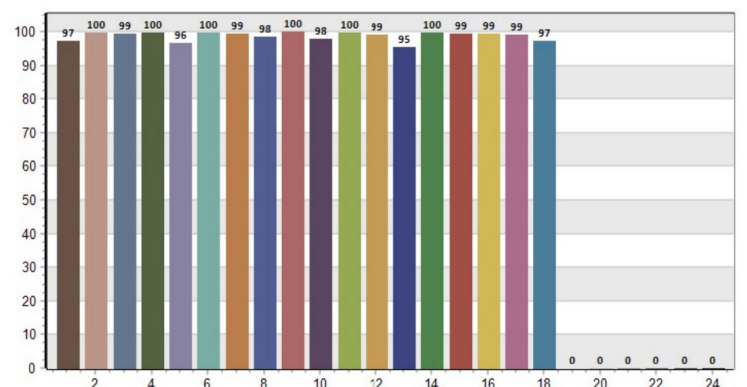
CRI-2



TM30: 93.20



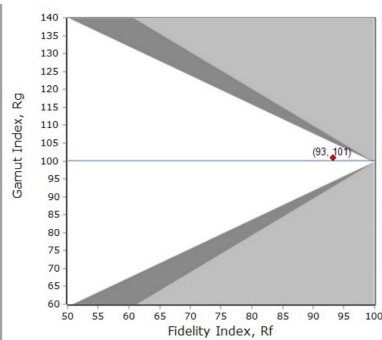
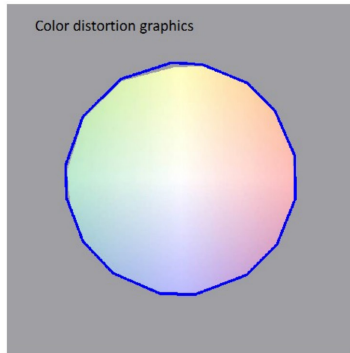
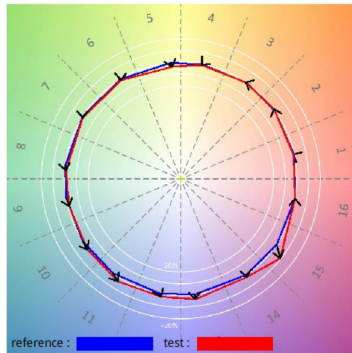
TLCI: 98.27



Risalto M VariWhite +, Fresnel, Minimum Zoom, 6.500K

Measurements taken at 4.3 meters

General Color Rendition

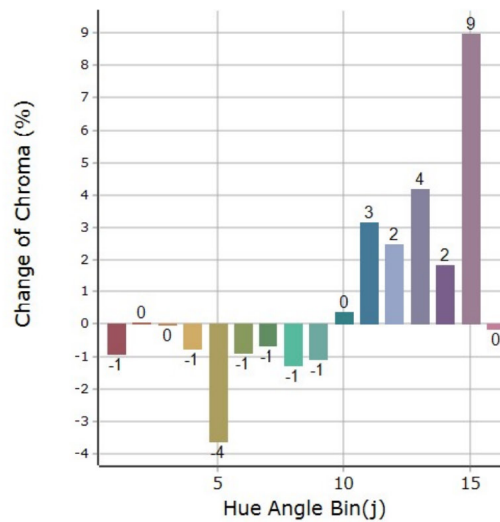
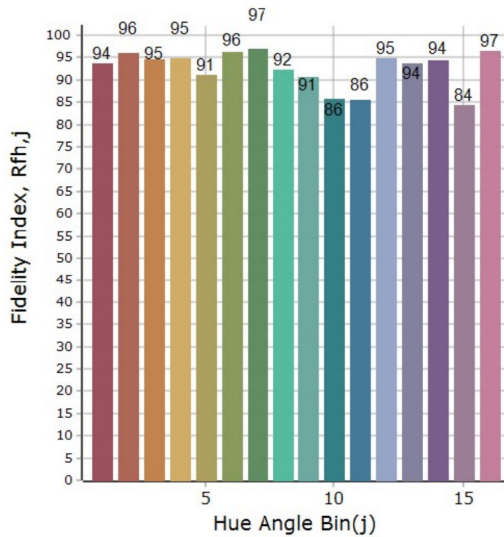
**Rf 93,2**

Fidelity index Rf

Rg 101,0

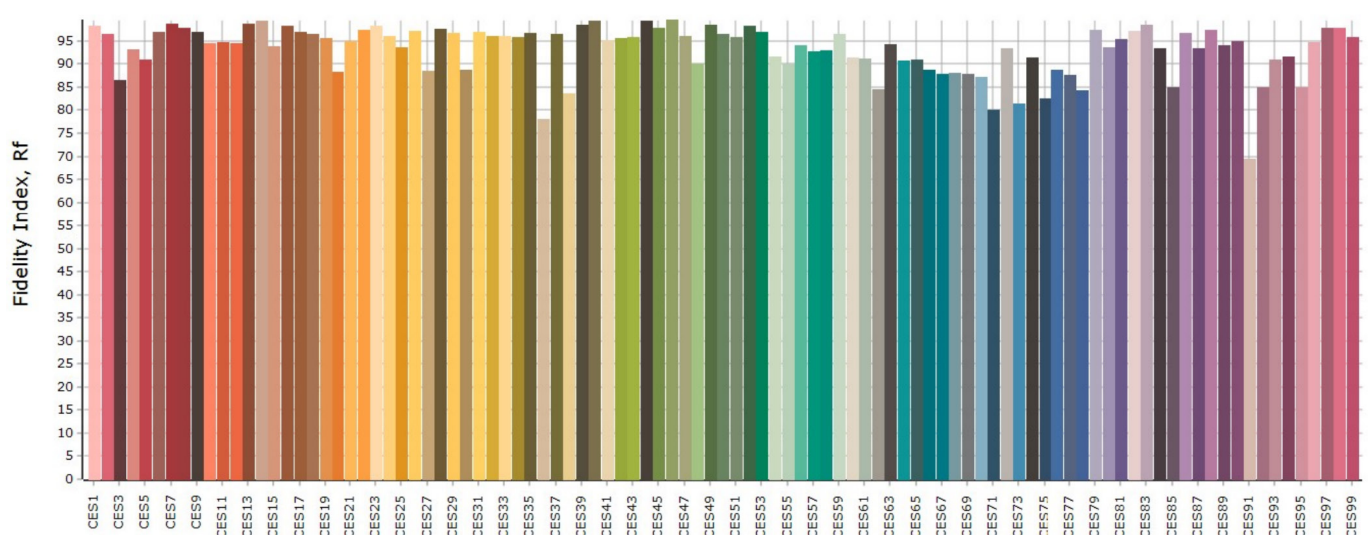
Gamut index Rg

Color Rendition by Hue



		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	93,7	-0,9%	0,5%
2	96,0	0,0%	1,3%
3	94,7	0,0%	1,0%
4	94,9	-0,8%	0,4%
5	91,2	-3,6%	-0,5%
6	96,4	-0,9%	0,7%
7	97,0	-0,7%	1,1%
8	92,3	-1,3%	3,6%
9	90,7	-1,1%	7,2%
10	85,8	0,4%	8,1%
11	85,6	3,2%	7,6%
12	95,0	2,5%	1,6%
13	93,6	4,2%	-0,4%
14	94,4	1,8%	-0,7%
15	84,5	9,0%	-8,2%
16	96,6	-0,2%	0,0%

Color Fidelity by Sample



Risalto M VariWhite +, Fresnel, Maximum Zoom, 6.500K

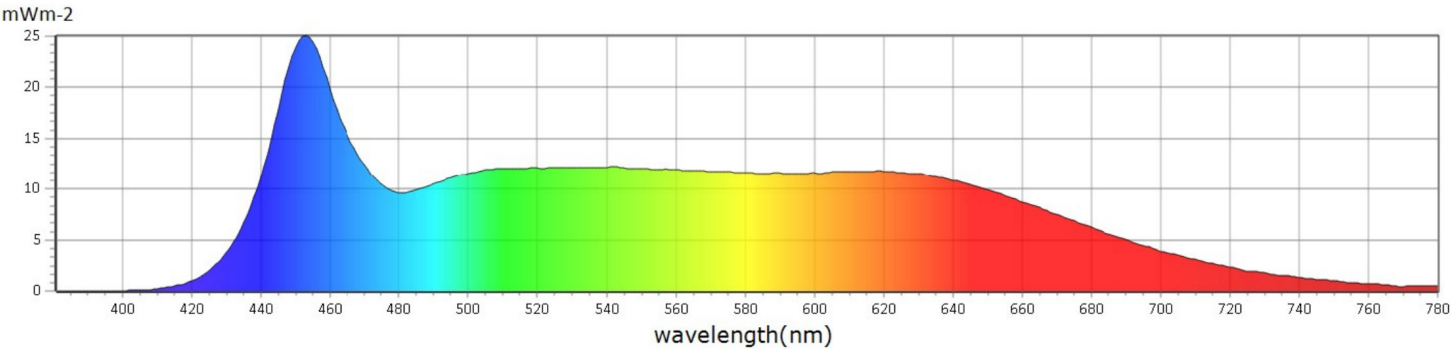
Measurements taken at 4.3 meters

General	
● CCT	6112 K
● x	0,3205
● y	0,3232
● LambdaD	481 nm
● LambdaP	452 nm

Measurements

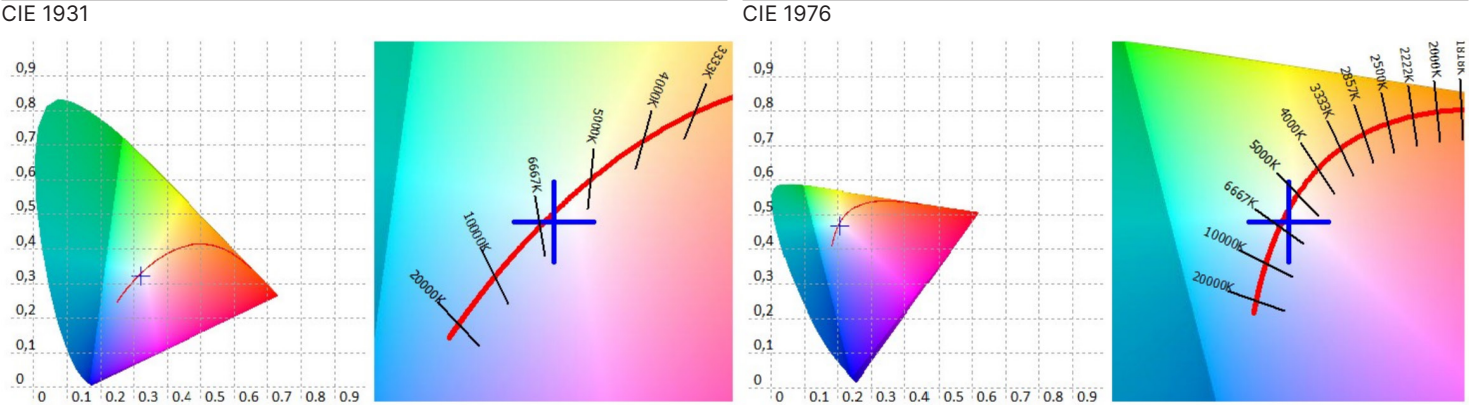
CCT : 6112 K	x10 : 0,3228	delta-x : 0,0005	LambdaD : 481 nm	PPFD : 14,15 umolm-2s-1	S/P : 2,37	R3 : 97,5	R10 : 96,0
LUX : 860,1 lx	y10 : 0,3275	delta-y : -0,0067	LambdaP : 452 nm	PFD : 14,91 umolm-2s-1	IRR : 3,213	R4 : 97,6	R11 : 95,2
I-Time : 8400 us	u'10 : 0,2055	delta-u' : 0,0030	Purity : 5,26%	PFD-B : 3,843 umolm-2s-1	CQS : 94,7	R5 : 96,0	R12 : 78,7
x : 0,3205	v'10 : 0,4690	delta-v' : -0,0035	fc : 79,94	PFD-G : 5,464 umolm-2s-1	CRI : 96,7	R6 : 93,4	R13 : 95,5
y : 0,3232	X : 853,02	Duv : -0,0038	Rf : 93,0	PFD-R : 4,843 umolm-2s-1	TLCI : 98,2	R7 : 98,0	R14 : 98,1
u' : 0,2056	Y : 860,11	MEL : 908,8 lx	Rg : 101,5	PFD-UV : 0,0003 umolm-2s-1	R1 : 95,4	R8 : 98,5	R15 : 94,3
v' : 0,4664	Z : 948,04	LambdaPV : 25,07	GAI : 100,6	PFD-FR : 0,7591 umolm-2s-1	R2 : 97,1	R9 : 93,7	

Spectrum



Risalto M VariWhite +, Fresnel, Maximum Zoom, 6.500K

Measurements taken at 4.3 meters



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,4	97,1	97,5	97,6	96,0	93,4	98,0	98,5	93,7	96,0	95,2	78,7	95,5	98,1	94,3

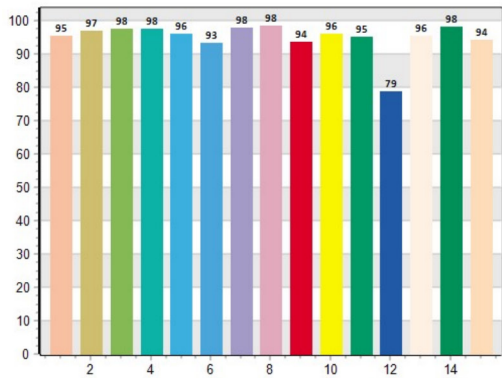
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,3	95,1	94,5	94,9	91,0	96,1	96,5	91,2	90,2	87,3	85,0	95,0	93,7	94,3	84,7	95,9

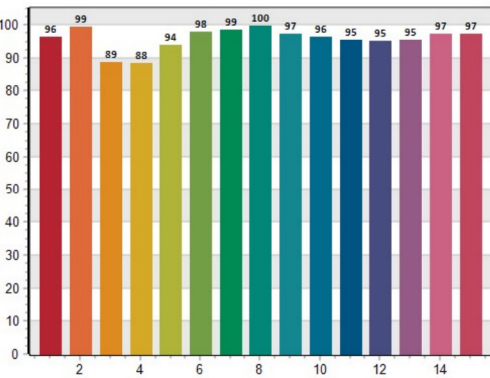
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,4	99,4	88,8	88,3	93,9	98,0	98,5	99,7	97,1	96,4	95,5	95,2	95,3	97,2	97,1

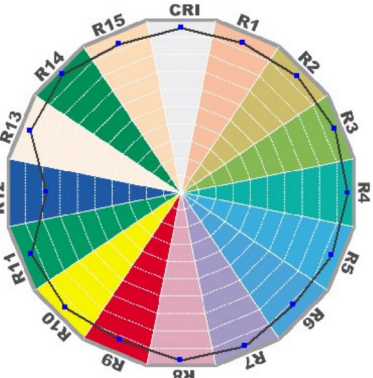
CRI: 96.67



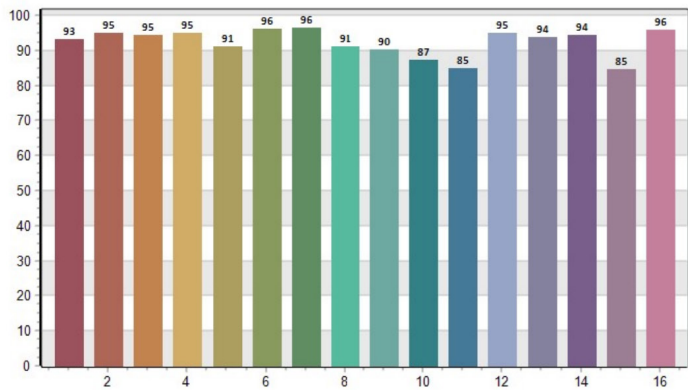
CQS: 94.70



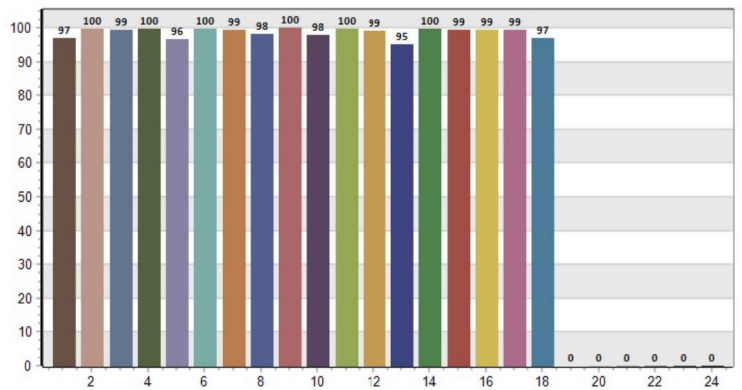
CRI-2



TM30: 92.98



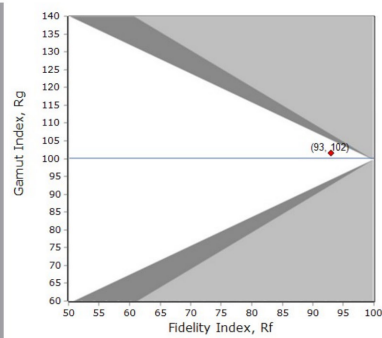
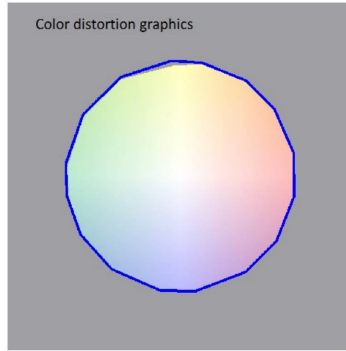
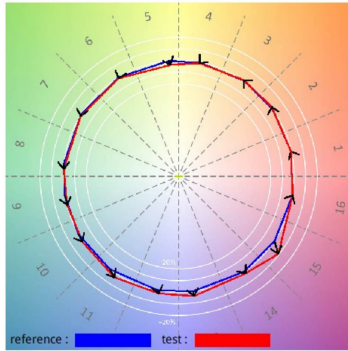
TLCI: 98.23



Risalto M VariWhite +, Fresnel, Maximum Zoom, 6.500K

Measurements taken at 4.3 meters

General Color Rendition

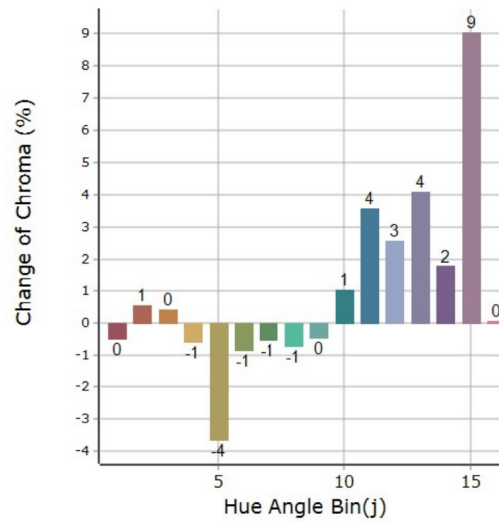
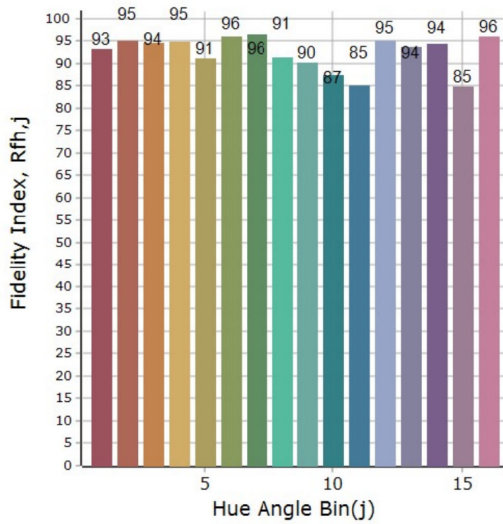
**Rf 93,0**

Fidelity index Rf

Rg 101,6

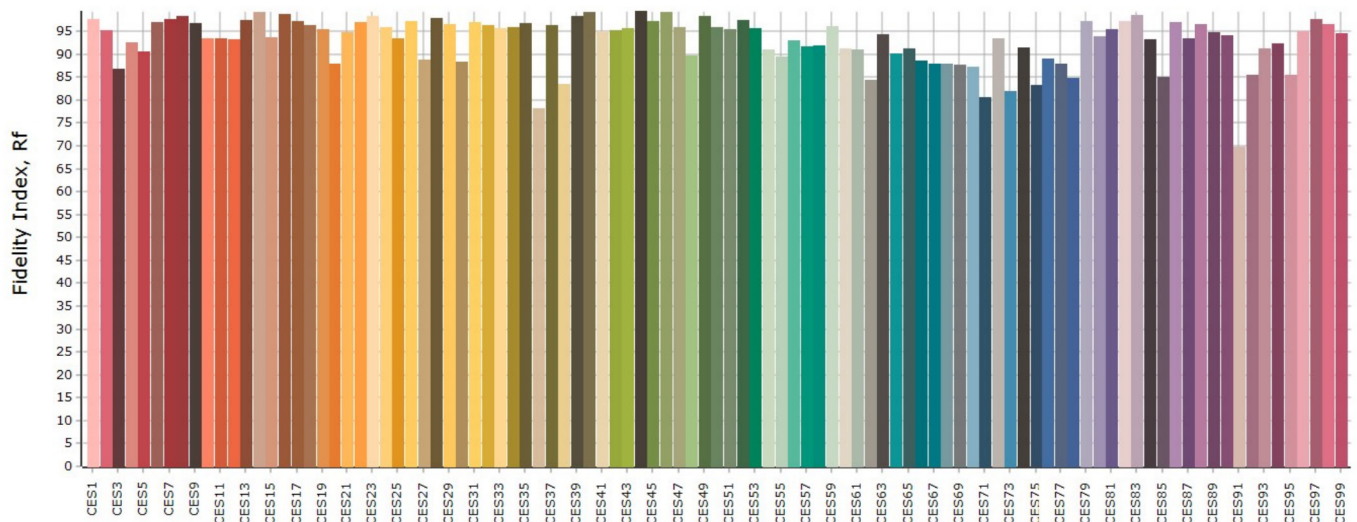
Gamut index Rg

Color Rendition by Hue



		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	93,3	-0,5%	0,9%
2	95,1	0,5%	1,5%
3	94,5	0,4%	0,8%
4	94,9	-0,6%	0,3%
5	91,1	-3,6%	-0,6%
6	96,1	-0,9%	1,0%
7	96,4	-0,5%	1,4%
8	91,3	-0,7%	4,2%
9	90,2	-0,5%	7,5%
10	87,4	1,0%	7,2%
11	85,0	3,6%	7,6%
12	94,9	2,6%	1,4%
13	93,7	4,1%	-0,3%
14	94,3	1,8%	-0,1%
15	84,8	9,0%	-7,3%
16	95,9	0,1%	0,6%

Color Fidelity by Sample



● Coemar Lighting S.r.l.

Via Carpenedolo, 90
46043, Castiglione delle Stiviere (MN) – Italy

P. +39 0376 1514412
M1. info@coemar.com
M2. service@coemar.com
W. coemar.com

P.iva – C.f. 02415330204

