

PHOTOMETRY

roma wet



Roma WET is a wash moving head equipped with 19x20W RGB + Lime LEDs. It also features a fast zoom range from 8 to 48°. The addition of Lime allows for the creation of saturated colors as well as powerful and calibrated whites with the BC Color System technology. Besides the possibility of independently calibrating colors and whites to perfectly integrate with an existing lighting setup, this system allows for managing colors from a given white, as if the fixture were used with a gel.

With its various DMX modes, **Roma WET** can be controlled in native RGB + Lime mode, X&Y mode within the CIE 1931 color space (where the color calibration IC automatically calculates the required LED channel values to reach a target x,y coordinate), or via RGB + White and CMY emulation modes.

These emulation modes retain the benefits of the Lime LED while maintaining traditional color management workflows.

Roma WET will be your ally for all medium to large-scale performances both indoors and outdoors with its IP65 rating.



Starway
starway.eu

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[Find the technical datasheet here :](#)



[DMX chart](#)



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Source

Engine	RGB Lime (Osram)
LED Watts	19x20W
Engine CCT	20300K (full RGLB)
Engine Life (L70)	> 55000 H
Refresh Rate	900 Hz to 25 KHz
Dimming	Electronic - 16 bits
Dimming Curves	Linear, Square, Inv Square, S-curve
Dimming Modes	Dim0 (0s), Dim1 (0.25s), Dim2 (0.5s), Dim3 (0.75s), Dim4 (1s)
Strobe Speed	1 - 20 Hz
Strobe Modes	Standard, Pulse, Random

Performances

Fixture Luminous Flux (Max)	9700 lm
Fixture Illuminance	Narrow: 15357 lux@5m 8° Medium: 2868 lux@5m 21° Wide: 1275 lux@5m 51°
Fixture CCT Output	1800 - 10000 K
CRI	Native: 64,61 @2700k: 82.32
Tm30	Native: 70.86 @2700k: 82.40
TLCI	Native: 56.25 @2700k: 60.20
CQS	Native: 82.93 @2700k: 84.74

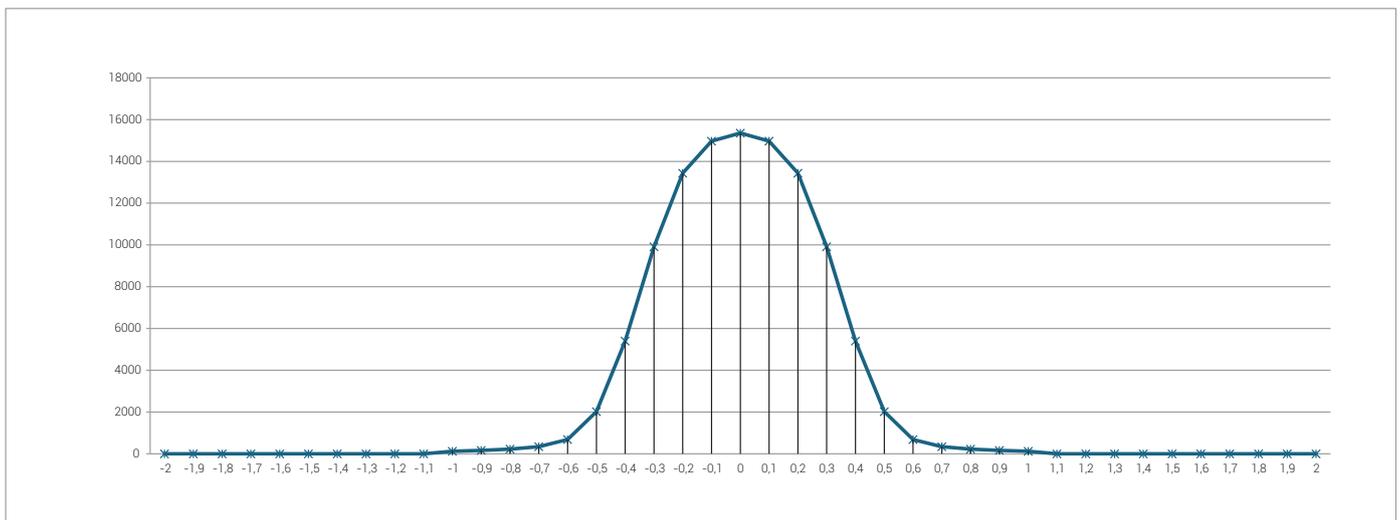
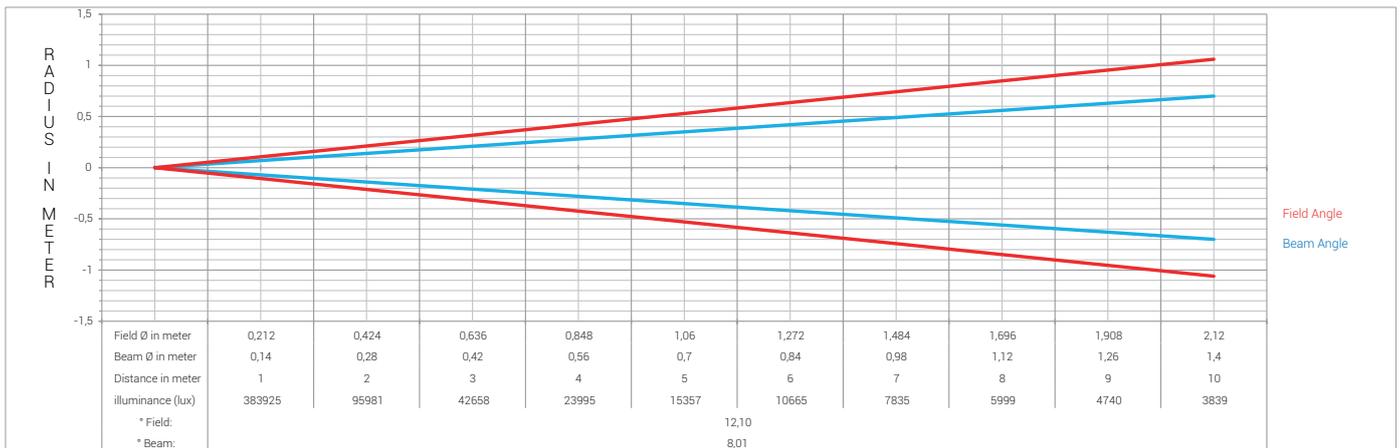
Optical

Lens Diameter	202mm
Zoom Range	8° - 51°
Zoom Ratio	6.4 :1

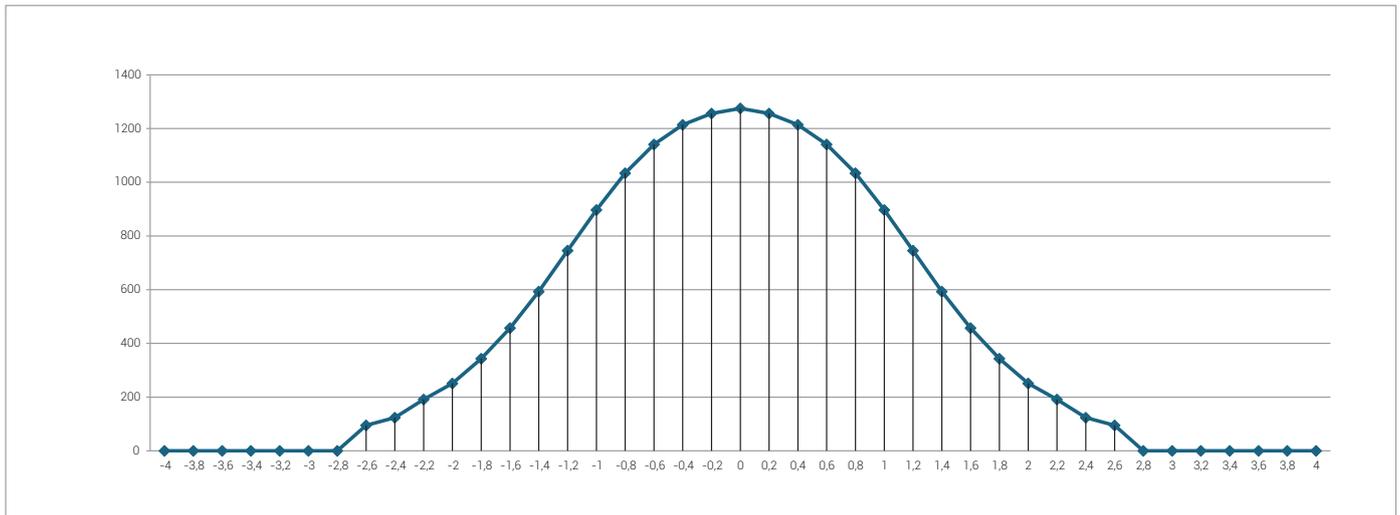
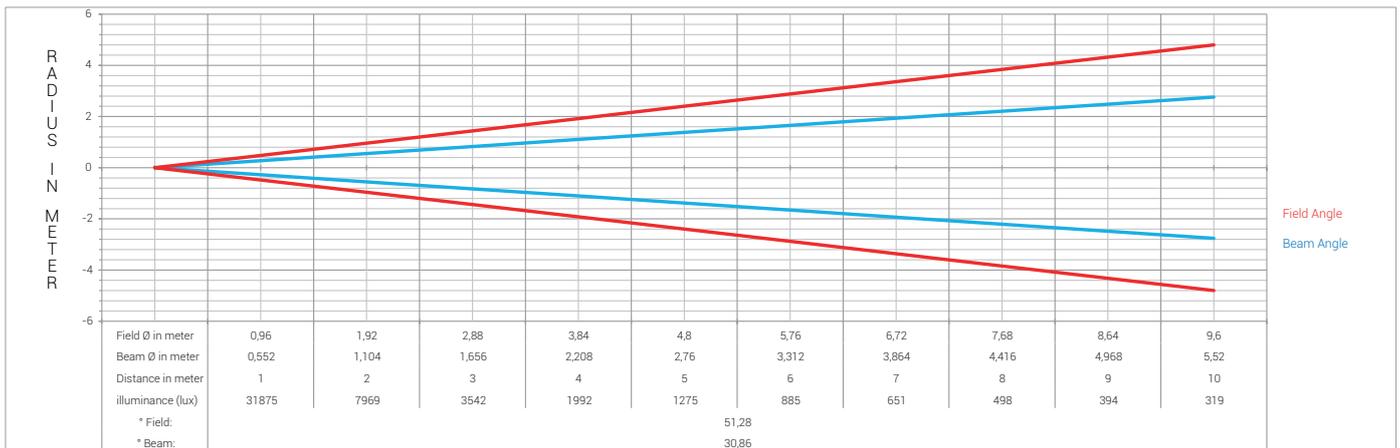
Colour System

Colour System	RGLB (Native), X&Y, RGBW (emulation), CYM (emulation)
Control	8 bits / 16 bits

Photometric Data - Narrow Zoom



Photometric Data - Wide Zoom



RGB + Lime Spectrum Test Report

Medium Zoom @ 5m



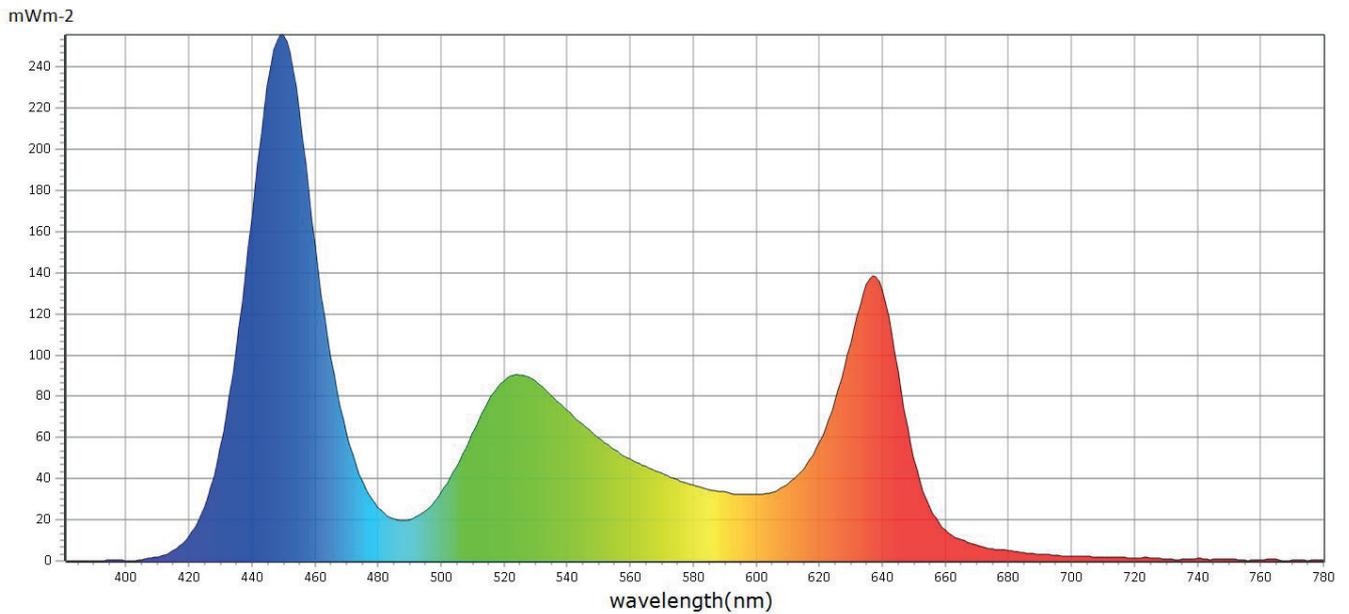
Information

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Model NO. : MK350S PREMIUM	Light Source :
Memo :	
FULLRGLB	

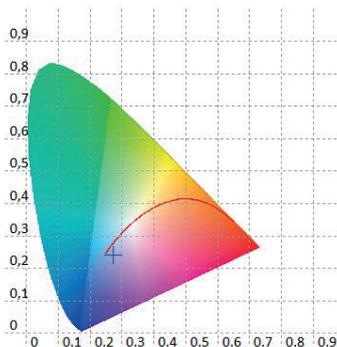
BASIC

CRI	: 64,1
X	: 0,2720
Y	: 0,2413
CCT	: 20317
LUX	: 4167

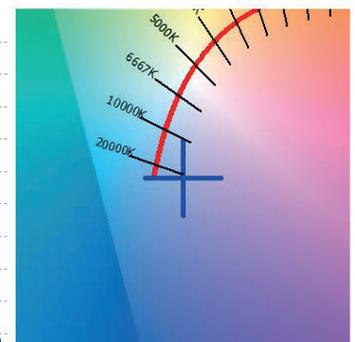
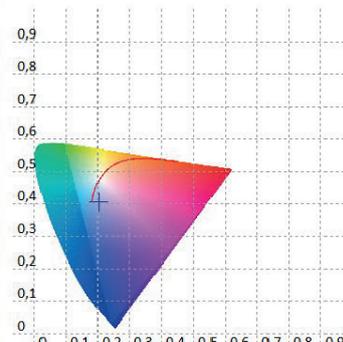
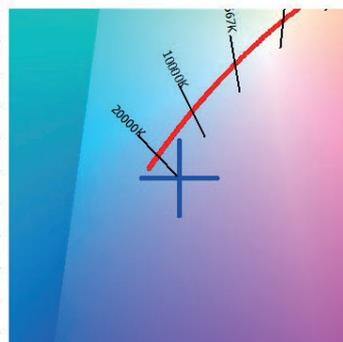
Spectrum



CIE1931



CIE1976



RGB + Lime Spectrum Test Report

Medium Zoom @ 5m



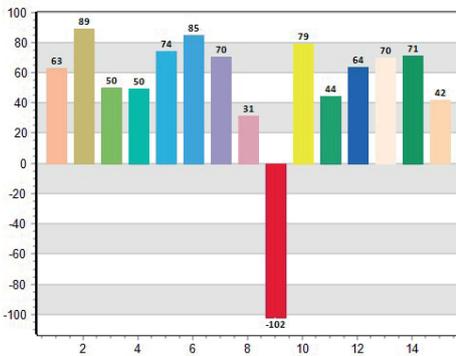
Information

User :	Measure Time :15:18:48
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
FULLRGLB	

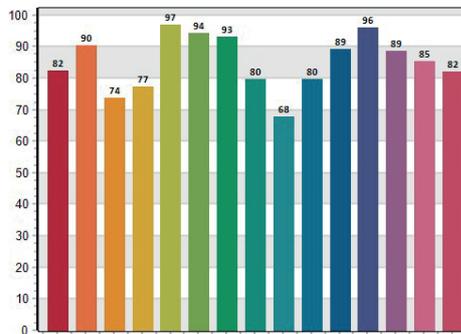
BASIC

CRI	: 64,1
X	: 0,2720
Y	: 0,2413
CCT	: 20317
LUX	: 4167

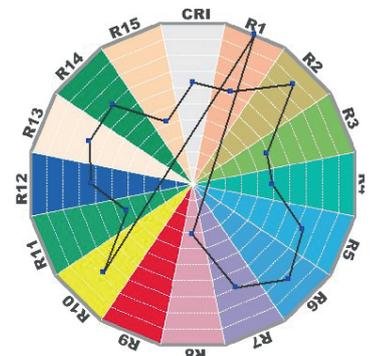
CRI: 64,13



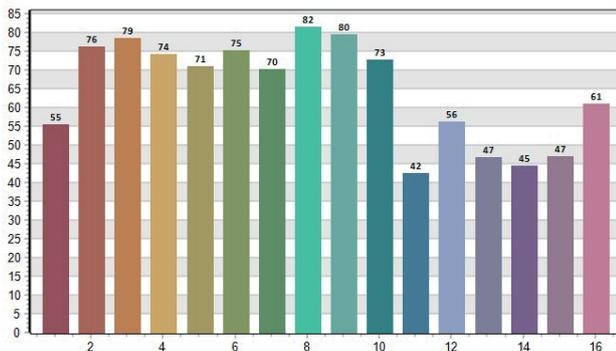
CQS: 82,93



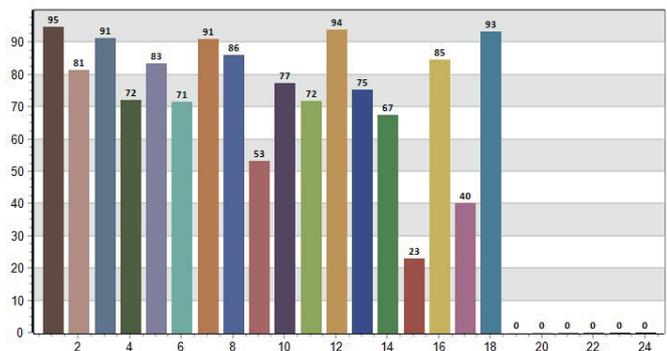
CRI-2



TM30: 70,86



TLCI: 56,25



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
63,0	89,2	50,0	49,7	74,5	84,8	70,5	31,4	-102,0	79,1	44,4	63,9	70,1	71,1	42,3

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
55,4	76,2	78,5	74,4	71,0	75,4	70,2	81,5	79,5	72,8	42,4	56,2	46,6	44,6	47,1	60,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,3	90,4	73,8	77,2	96,9	94,2	93,1	79,5	67,7	79,8	89,2	96,0	88,7	85,2	82,1

2700 K (calibrated macro) Spectrum Test Report

Slot #8

Medium Zoom @ 5m



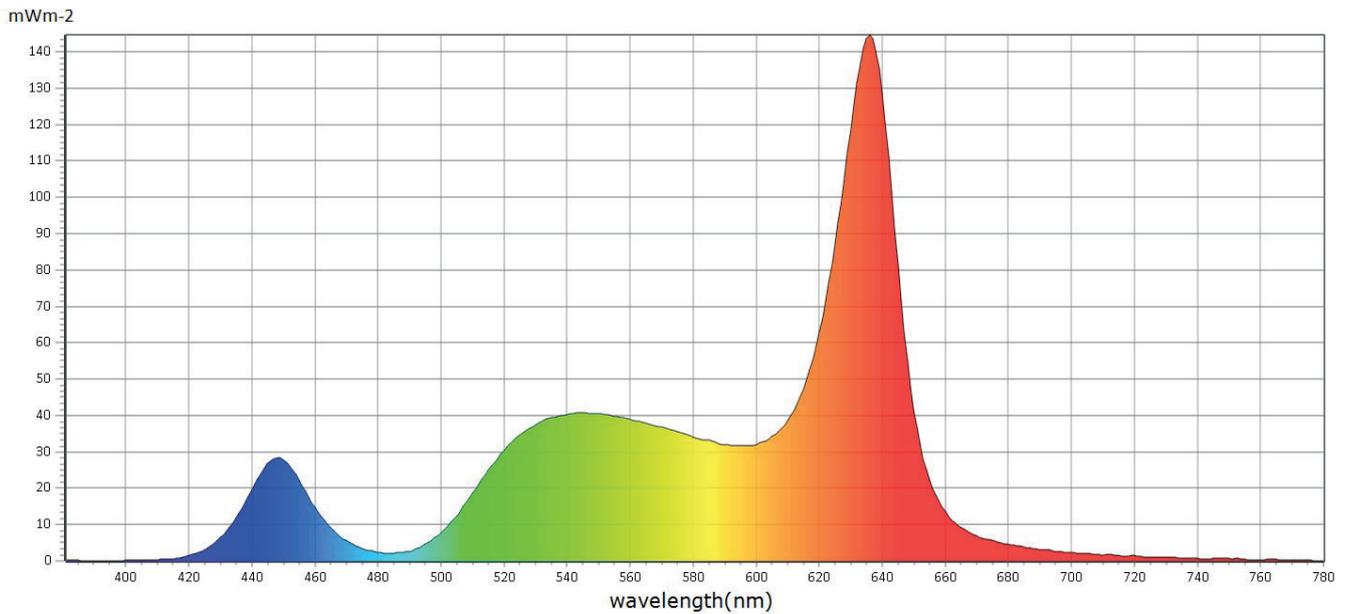
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Memo :	
MACRO2700	

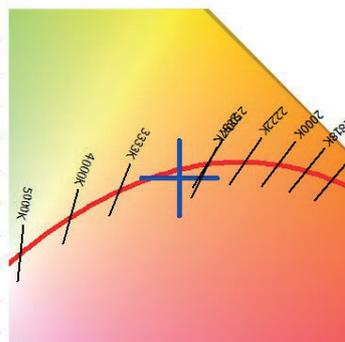
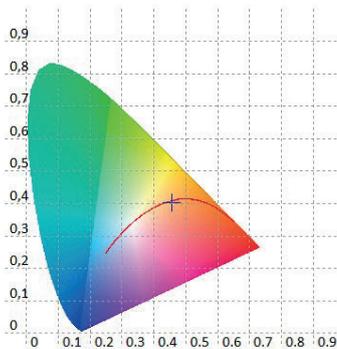
BASIC

CRI	: 82,3
X	: 0,4569
Y	: 0,4033
CCT	: 2684
LUX	: 2752

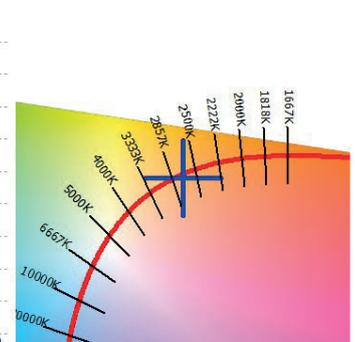
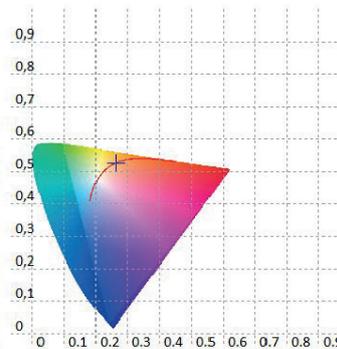
Spectrum



CIE1931



CIE1976



2700 K (calibrated macro) Spectrum Test Report

Slot #8

Medium Zoom @ 5m



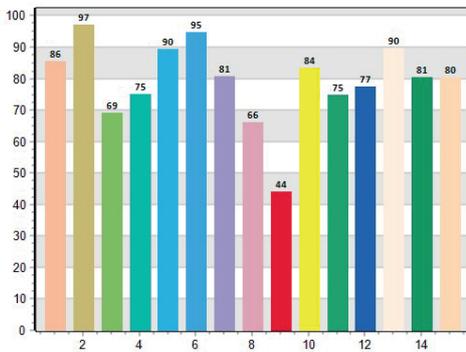
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Memo :	
MACRO2700	

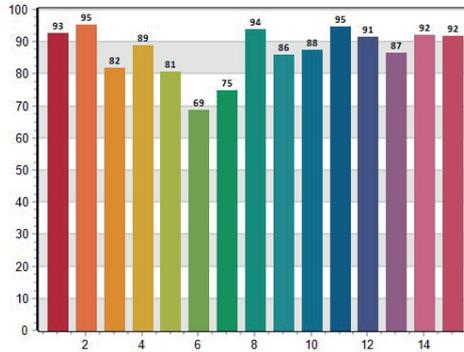
BASIC

CRI	: 82,3
X	: 0,4569
Y	: 0,4033
CCT	: 2684
LUX	: 2752

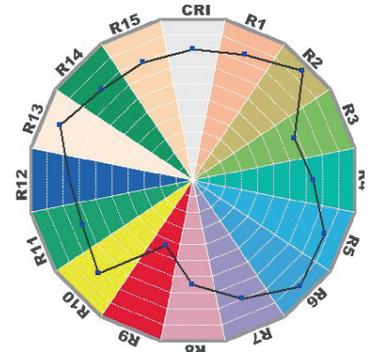
CRI: 82,32



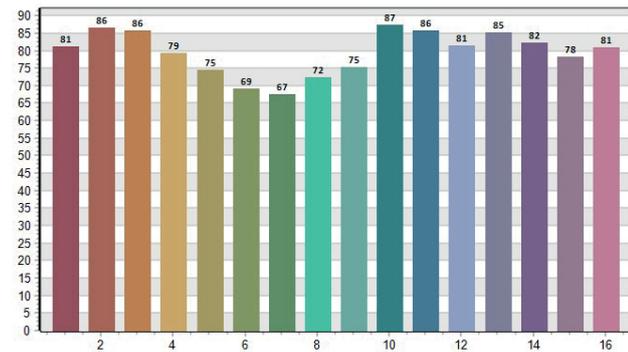
CQS: 84,74



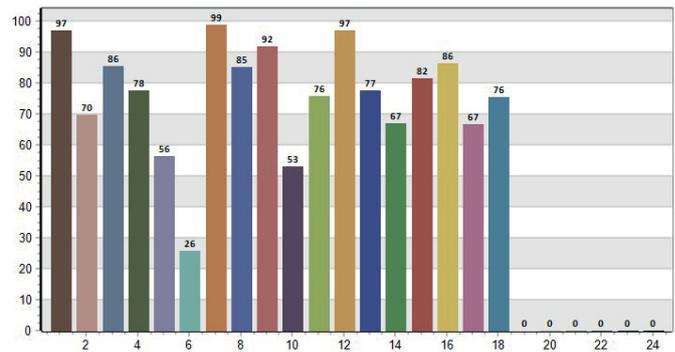
CRI-2



TM30: 82,40



TLCI: 60,20



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
85,7	97,2	69,1	75,2	89,5	94,7	80,9	66,2	44,2	83,5	74,9	77,4	89,8	80,5	80,5

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
81,2	86,4	85,9	79,3	74,6	69,1	67,4	72,3	75,4	87,4	85,8	81,5	85,2	82,3	78,3	81,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,8	95,3	81,8	88,9	80,7	68,7	74,7	93,9	86,1	87,5	94,8	91,4	86,5	92,1	92,0

4000 K (calibrated macro) Spectrum Test Report

Slot #7

Medium Zoom @ 5m



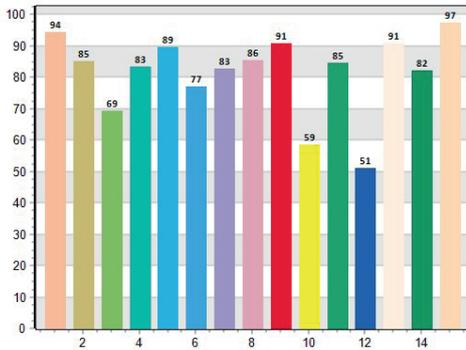
Information

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Model NO. : MK350S PREMIUM	Light Source :
Memo :	
MACRO4000	

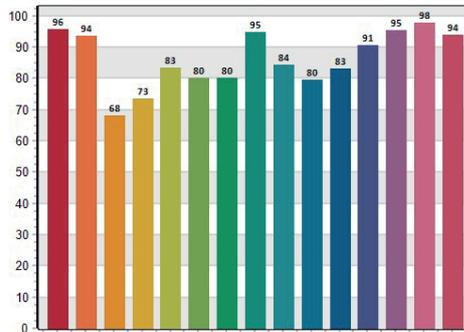
BASIC

CRI	: 83,3
X	: 0,3719
Y	: 0,3678
CCT	: 4179
LUX	: 2529

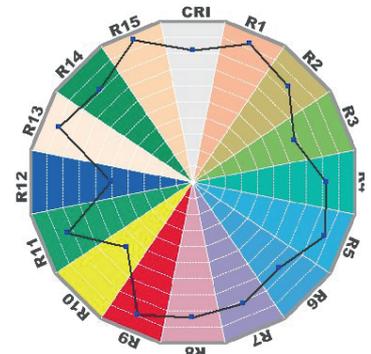
CRI: 83,34



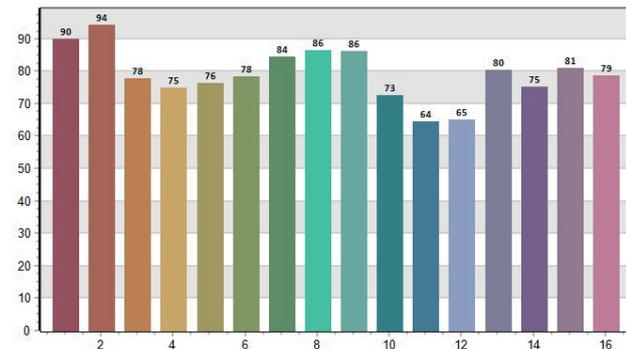
CQS: 83,76



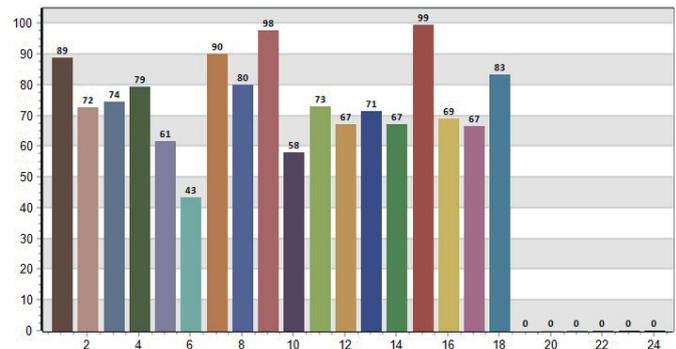
CRI-2



TM30: 81,49



TLCI: 68,59



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
94,2	85,2	69,1	83,4	89,5	76,9	82,7	85,5	90,9	58,5	84,5	51,1	90,8	82,1	97,3

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
89,9	94,2	77,9	74,9	76,2	78,3	84,4	86,5	86,2	72,7	64,3	64,9	80,5	75,2	81,0	78,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,8	93,6	68,2	73,5	83,4	80,2	80,2	94,9	84,3	79,6	83,1	90,7	95,4	97,8	93,9

5600 K (calibrated macro) Spectrum Test Report

Slot #11

Medium Zoom @ 5m



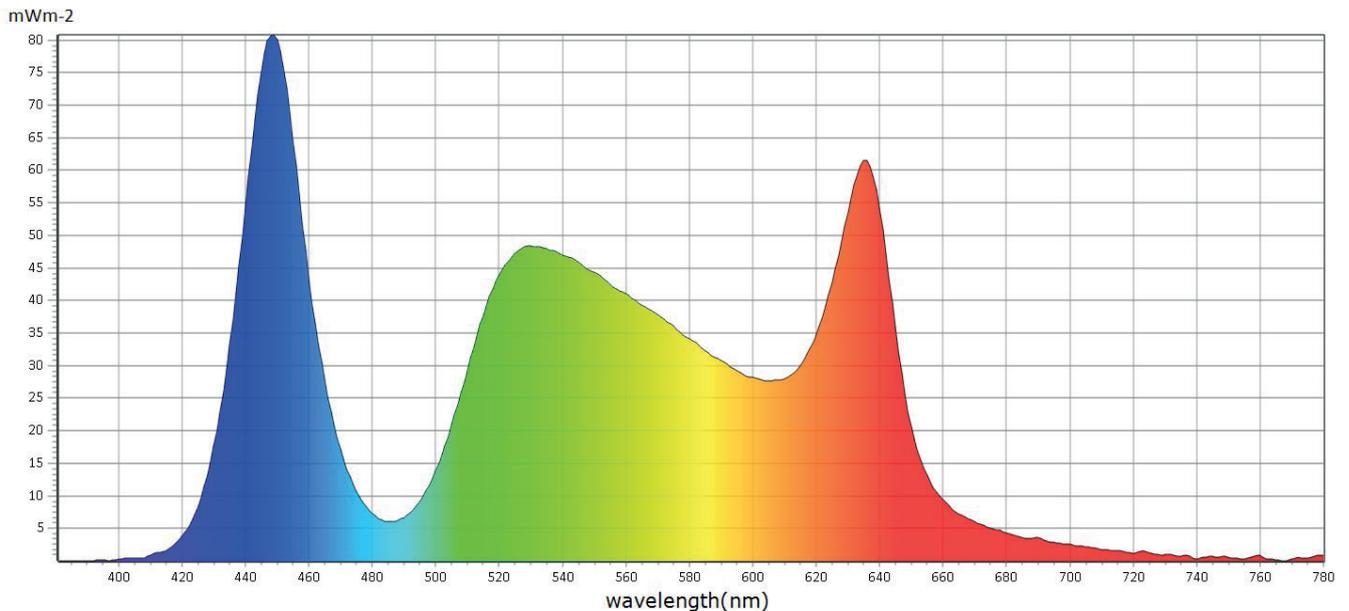
Information

User :	Measure Time :15:21:23
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
MACRO5600	

BASIC

CRI	: 82,1
X	: 0,3295
Y	: 0,3390
CCT	: 5631
LUX	: 2690

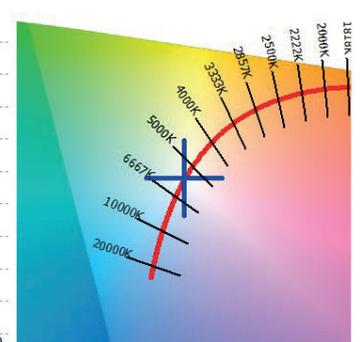
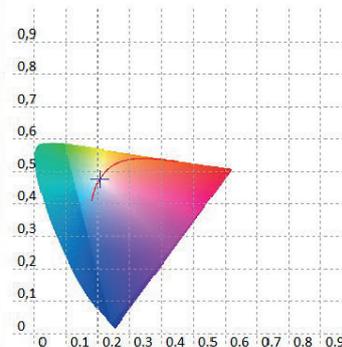
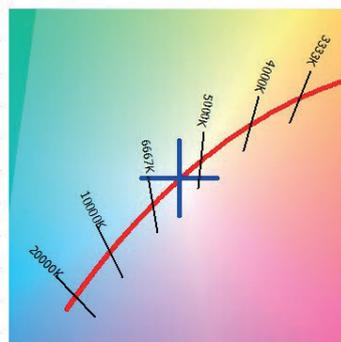
Spectrum



CIE1931



CIE1976



5600 K (calibrated macro) Spectrum Test Report

Slot #11

Medium Zoom @ 5m



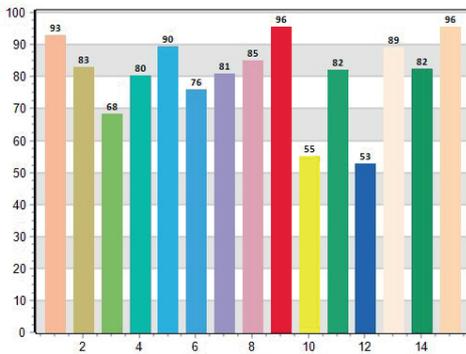
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Memo :	
MACRO5600	

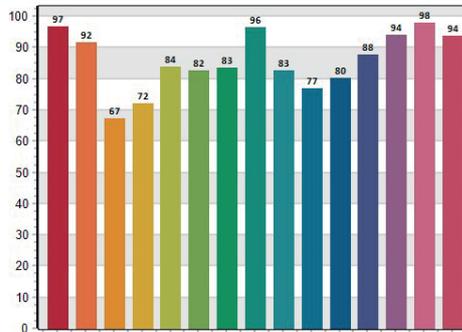
BASIC

CRI	: 82,1
X	: 0,3295
Y	: 0,3390
CCT	: 5631
LUX	: 2690

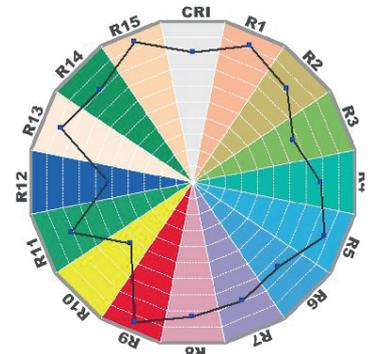
CRI: 82,06



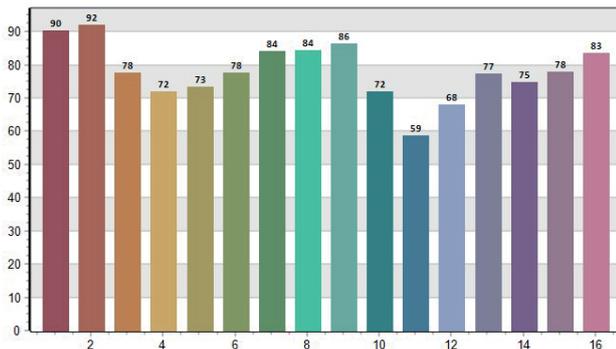
CQS: 83,18



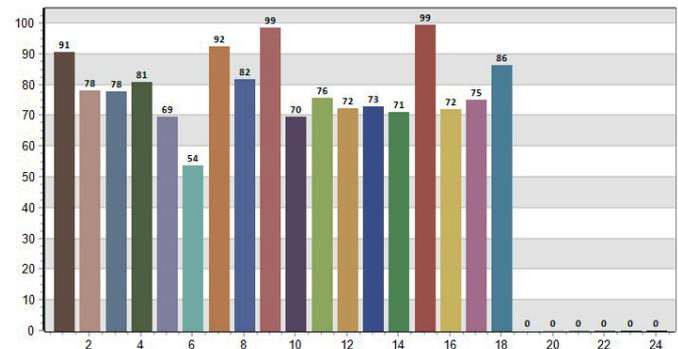
CRI-2



TM30: 80,24



TLCI: 74,82



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
92,9	83,1	68,3	80,3	89,5	76,1	81,0	85,2	95,6	55,2	82,2	52,9	89,3	82,3	95,7

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
90,2	92,0	77,7	72,1	73,5	77,7	84,1	84,5	86,3	72,0	58,7	68,1	77,4	74,7	78,0	83,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,8	91,6	67,1	72,1	83,9	82,4	83,5	96,5	82,6	76,9	80,3	87,7	93,9	97,9	93,8

10000 K (calibrated macro) Spectrum Test Report

Medium Zoom @ 5m



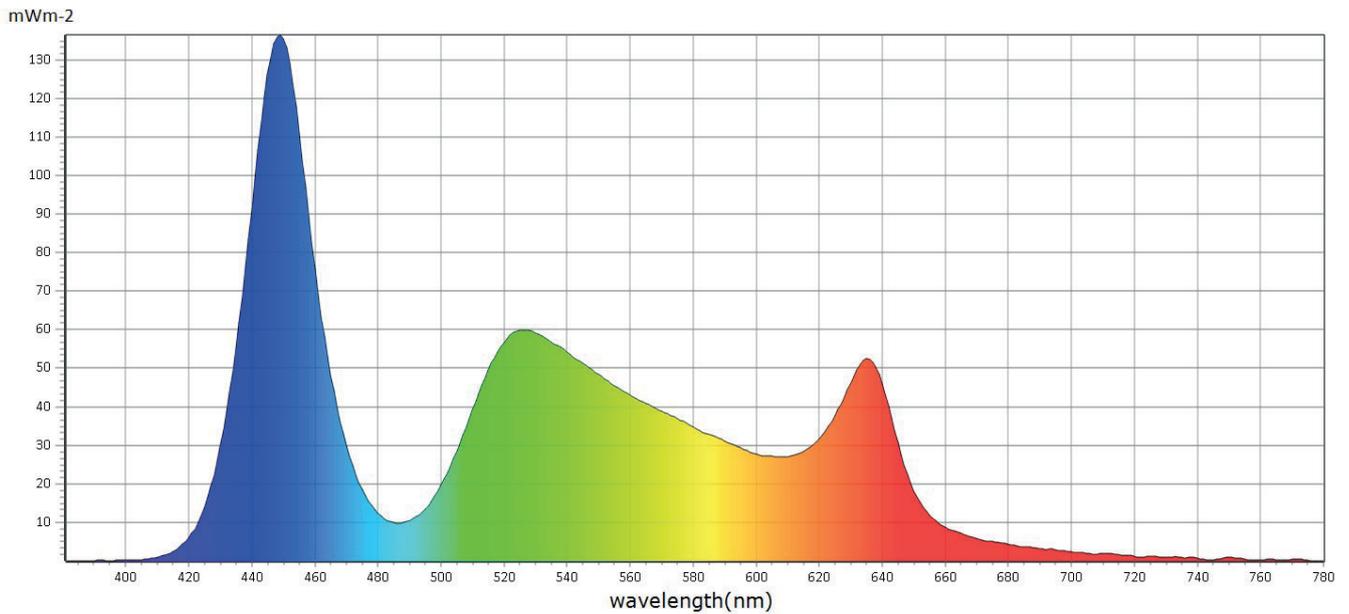
Information

User :	Measure Time :15:21:03
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
MACRO10000	

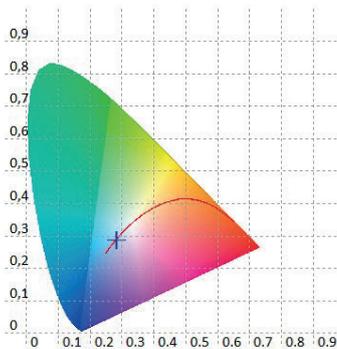
BASIC

CRI	: 81,2
X	: 0,2827
Y	: 0,2883
CCT	: 9764
LUX	: 2971

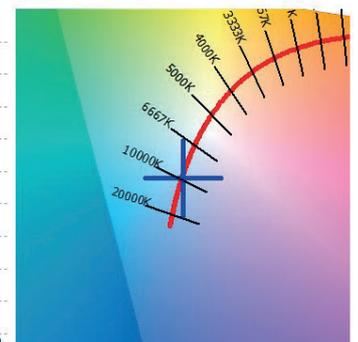
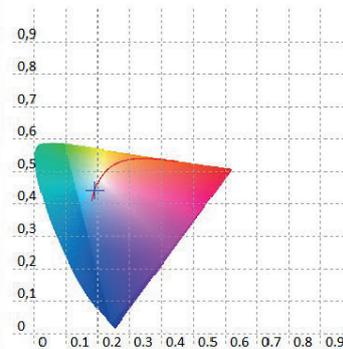
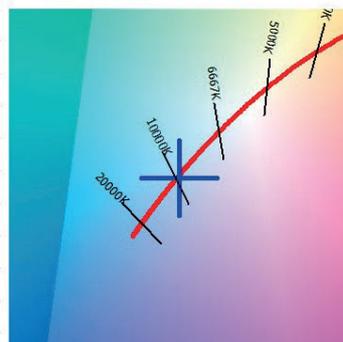
Spectrum



CIE1931



CIE1976



10000 K (calibrated macro) Spectrum Test Report

Medium Zoom @ 5m



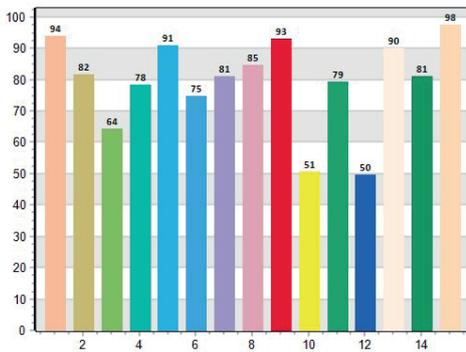
Information

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Model NO. : MK350S PREMIUM	Light Source :
Memo :	
MACRO10000	

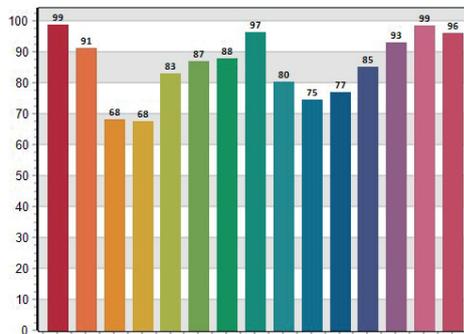
BASIC

CRI	: 81,2
X	: 0,2827
Y	: 0,2883
CCT	: 9764
LUX	: 2971

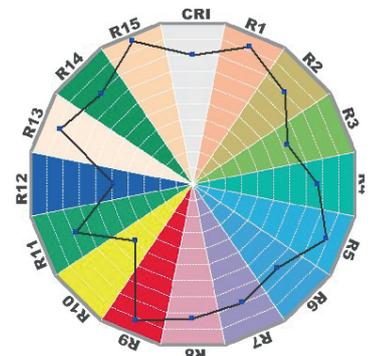
CRI: 81,24



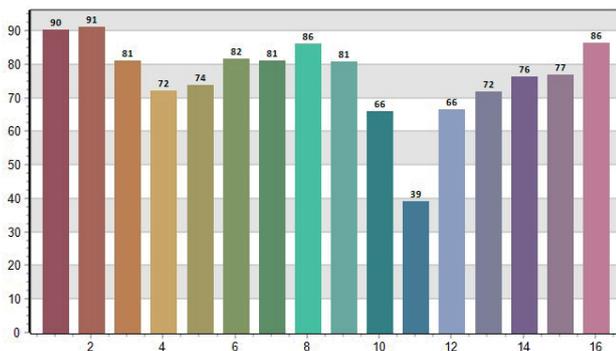
CQS: 82,53



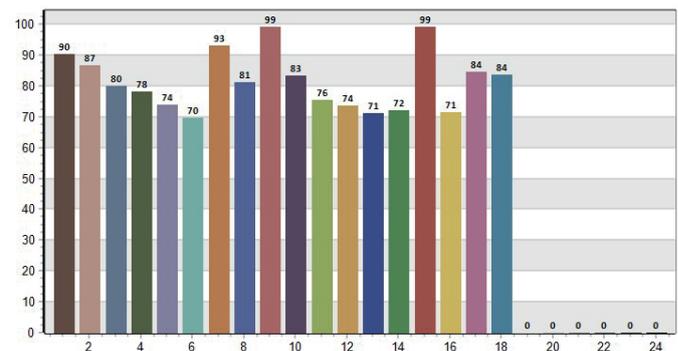
CRI-2



TM30: 79,18



TLCI: 78,92



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
93,8	81,6	64,4	78,5	90,8	74,9	81,1	84,8	93,1	50,6	79,4	49,5	89,9	81,1	97,5

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
90,1	91,1	80,9	72,0	73,9	81,5	81,1	86,2	80,7	65,9	39,2	66,5	72,0	76,2	76,8	86,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,9	91,5	68,3	67,6	83,3	86,9	88,1	96,6	80,3	74,5	77,0	85,3	93,3	98,6	96,1

Red @100% Spectrum Test Report

Medium Zoom @ 5m

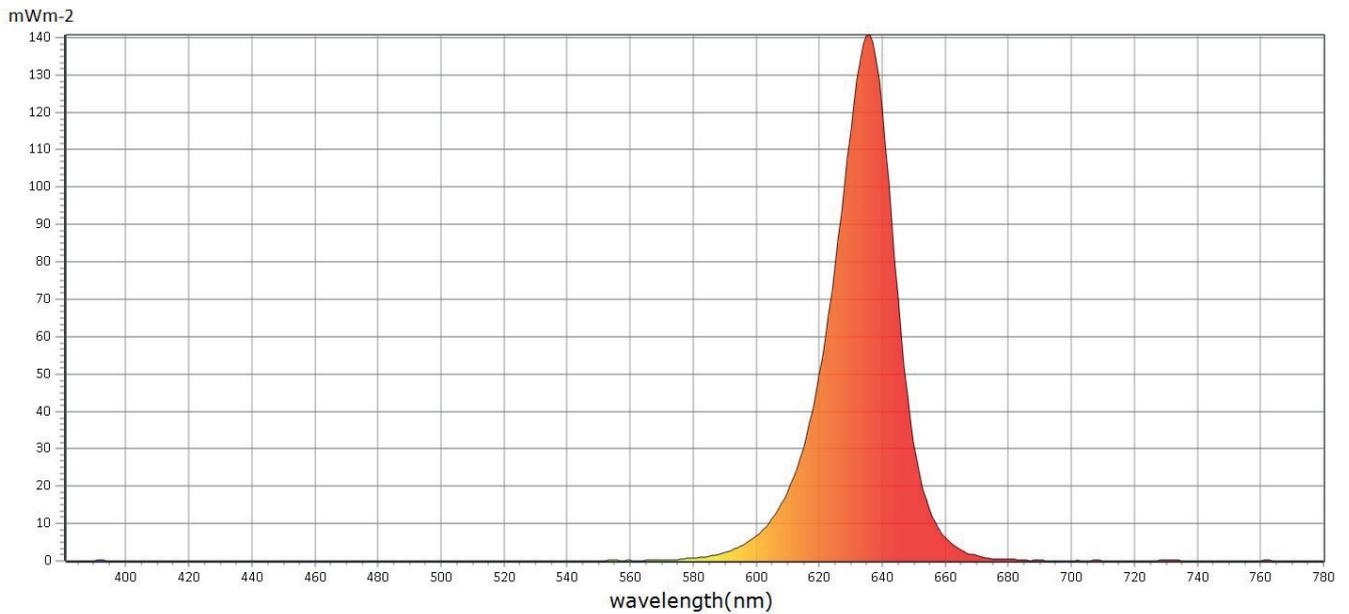
Information

User :	Measure Time :15:19:18
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
RED	

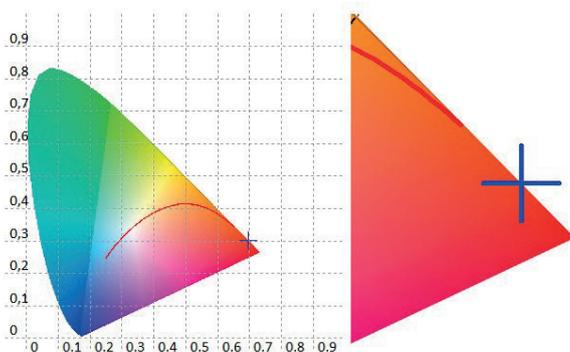
BASIC

CRI	: 0,0
X	: 0,6960
Y	: 0,3032
CCT	: 0
LUX	: 643,8

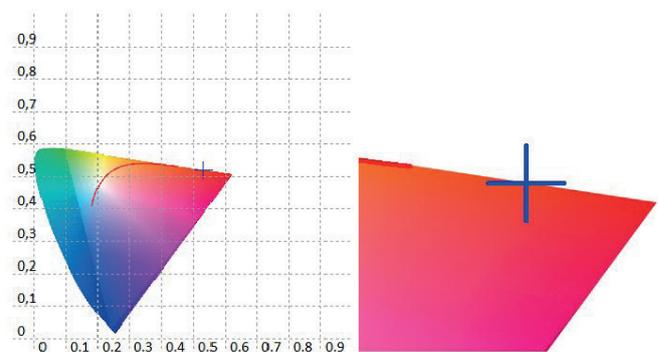
Spectrum



CIE1931



CIE1976



Green @100% Spectrum Test Report

Medium Zoom @ 5m



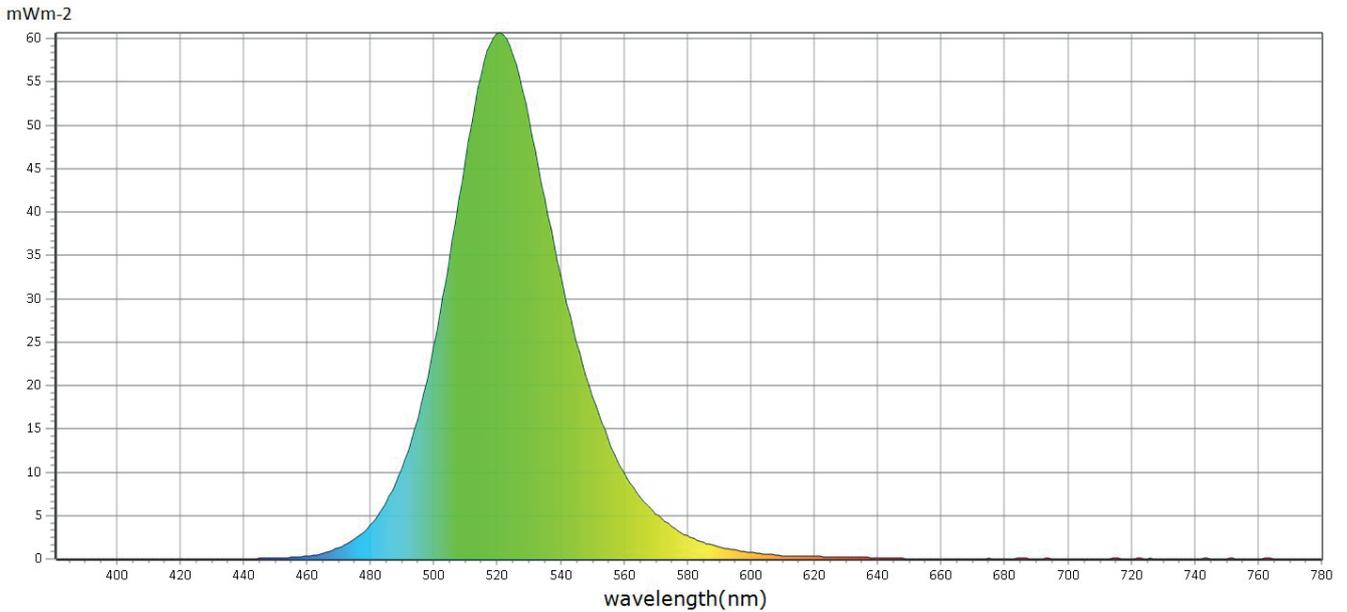
Information

User :	Measure Time :15:19:38
Model NO. : MK350S PREMIUM	Light Source :
Memo : GREEN	

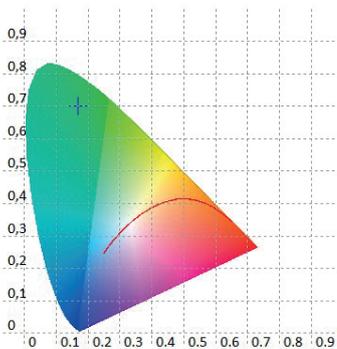
BASIC

CRI	: 0,0
X	: 0,1694
Y	: 0,7021
CCT	: 7946
LUX	: 1273

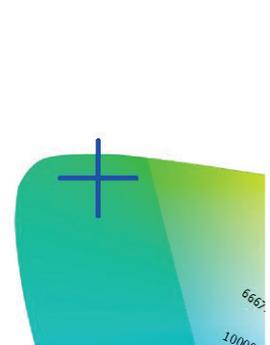
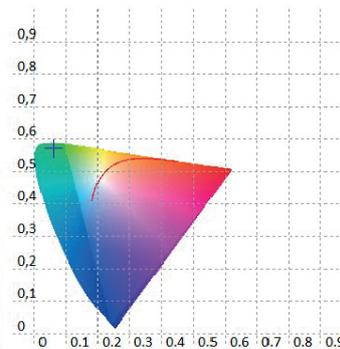
Spectrum



CIE1931



CIE1976



Blue @100% Spectrum Test Report

Medium Zoom @ 5m



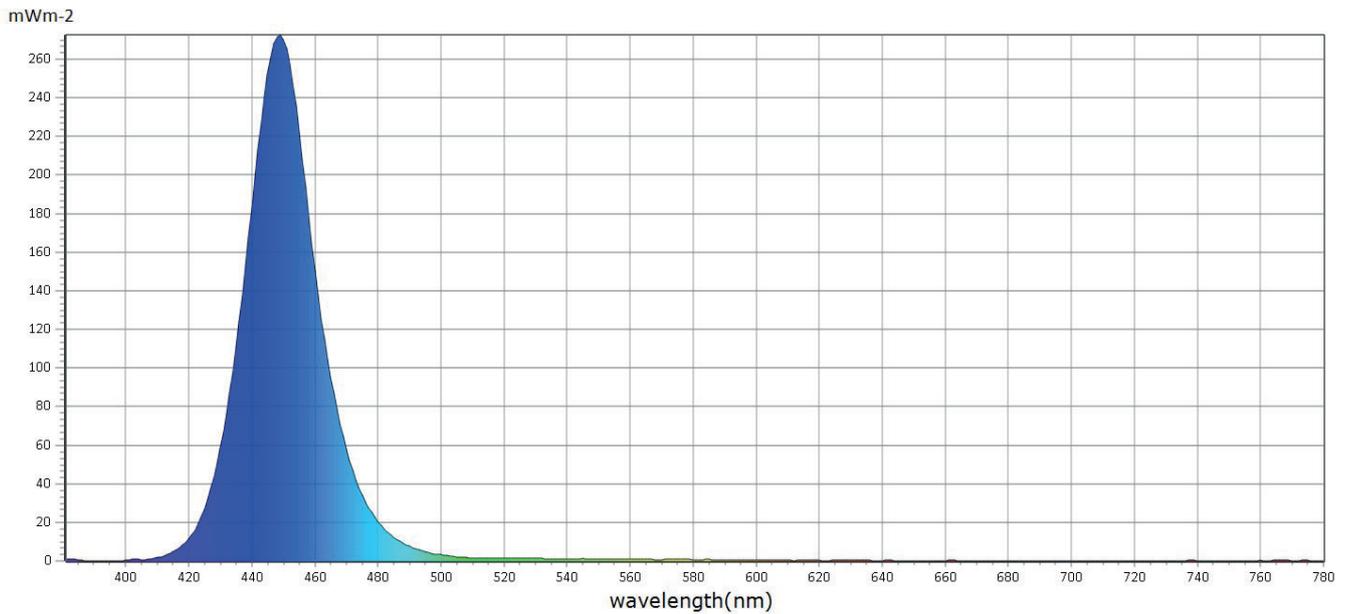
Information

User :	Measure Time :15:20:13
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
BLUE	

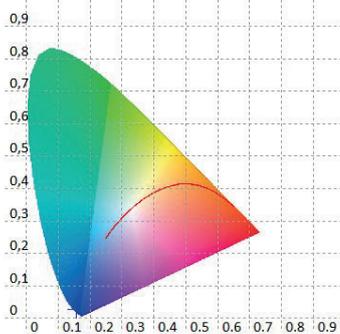
BASIC

CRI	: 0,0
X	: 0,1563
Y	: 0,0277
CCT	: 0
LUX	: 286,7

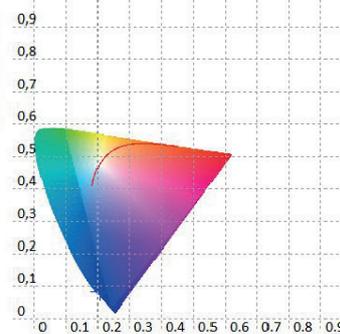
Spectrum



CIE1931



CIE1976



Lime @100% Spectrum Test Report

Medium Zoom @ 5m



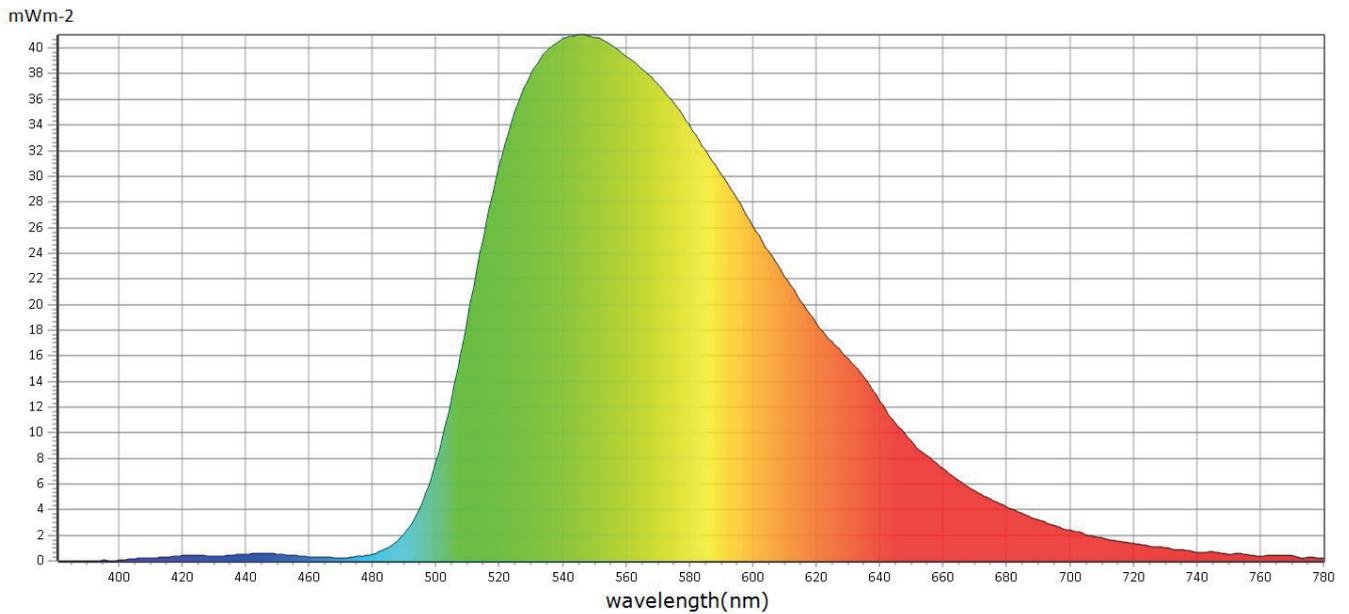
Information

User :	Measure Time :15:20:28
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
LIME	

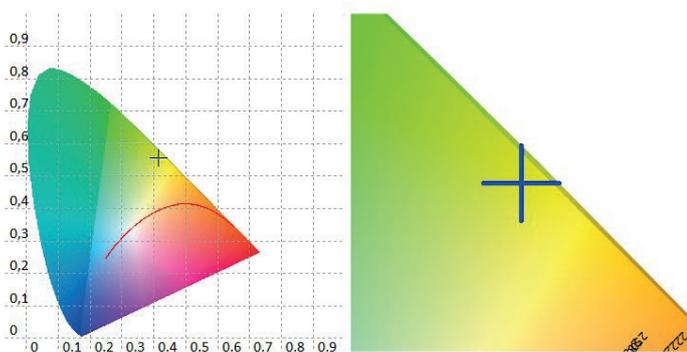
BASIC

CRI	: 36,5
X	: 0,4153
Y	: 0,5559
CCT	: 4193
LUX	: 2164

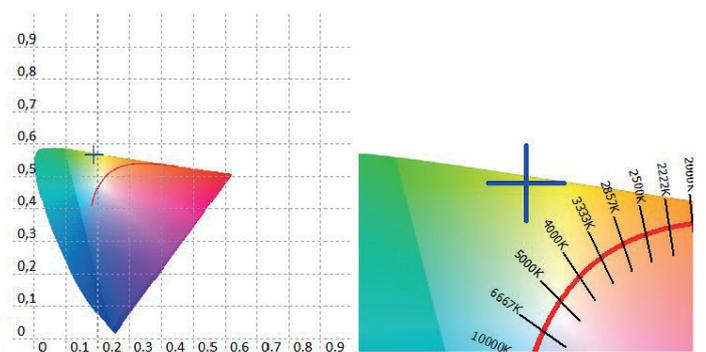
Spectrum



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