



Developed for demanding environments in indoor or outdoor events, **Astra 150HDL** offers a range of IP65 LED fixtures combining power, optical precision and long-lasting reliability.

Thanks to its 7x15W RGB + Lime LEDs and 12° fixed angle, **Astra 150HDL** provides rich and subtle colour mixing, delivering both deep saturated colours and accurately calibrated whites, with smooth fades and excellent uniformity.

Astra 150HDL is ideal for lighting live shows, scenic elements and architectural façades.

Its die-cast aluminium housing ensures optimal thermal management and robustness, perfectly suited for intensive professional use.

Designed to adapt to any configuration, **Astra 150HDL** offers a selection of clip-on optical filters in 20°, 40°, 60°, 60°x10° and frost (100°), allowing the beam angle to be adjusted from wide wash applications to more directional uses.

In terms of control, **Astra 150HDL** provides advanced flexibility: the fixtures can be operated via a Bluetooth app, enabling mesh networking, remote configuration and fast fixture setup. For traditional installations, wired DMX control ensures seamless integration with any lighting console, with remote adjustment of modes and addressing.

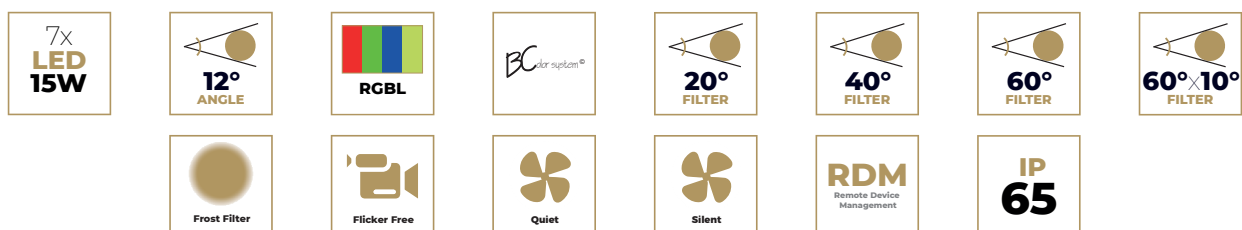


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[Manual](#)



[DMX Chart](#)



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Source

Engine	RGB + Lime
LED Watts	7x 15W
Engine CCT	9500K (Full RGBL - no optics)
Engine Life (L70)	> 20000 H
Refresh Rate	900Hz 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 - 25 Hz
Strobe Modes	Standard, Pulse, Random

Performances

Fixture Luminous Flux (Max)	3511 lm
Fixture Illuminance	Narrow: 2485 lux@5m 12° Medium: 1050 lux@5m 20° Wide: 155 lux@5m 60°
Fixture CCT Output	1800 - 10000 K
CRI	@6500k: 85.9 @3200k: 87.4
Tm30	@6500k: 84.6 @3200k: 85.05
TLCI	@6500k: 83.96 @3200k: 73.59
CQS	@6500k: 87.18 @3200k: 87.18

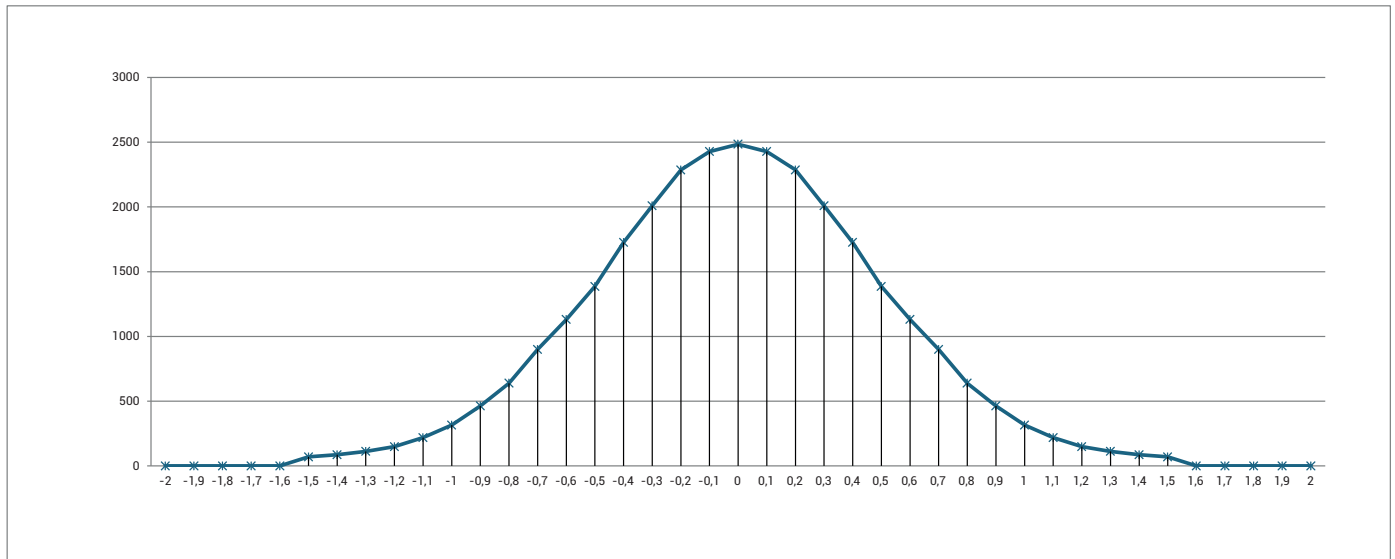
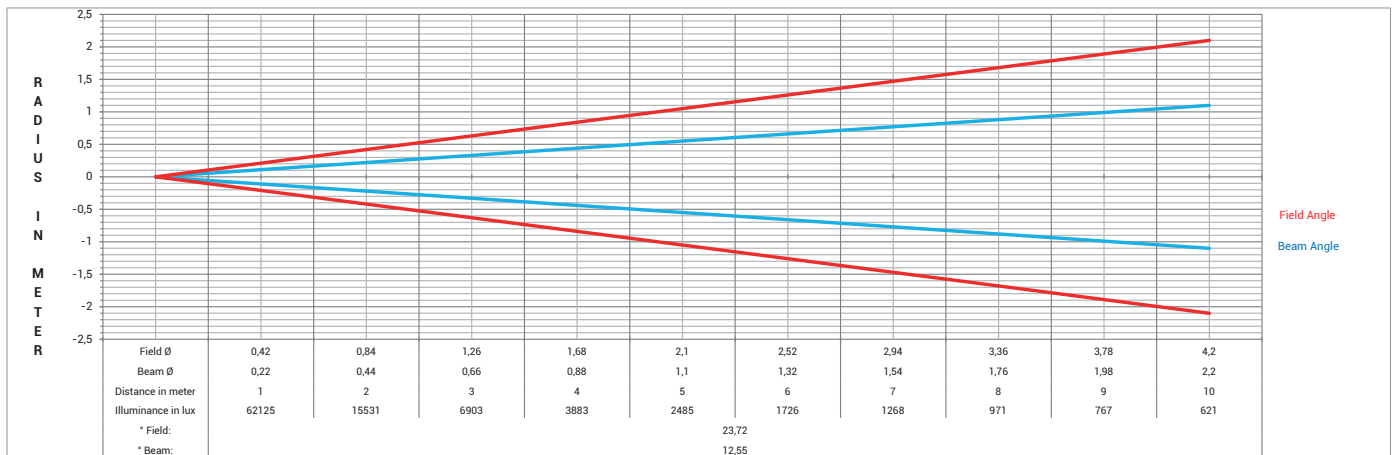
Optical

Lens Diameter	30 mm (Individual) 105.2 mm (Total)
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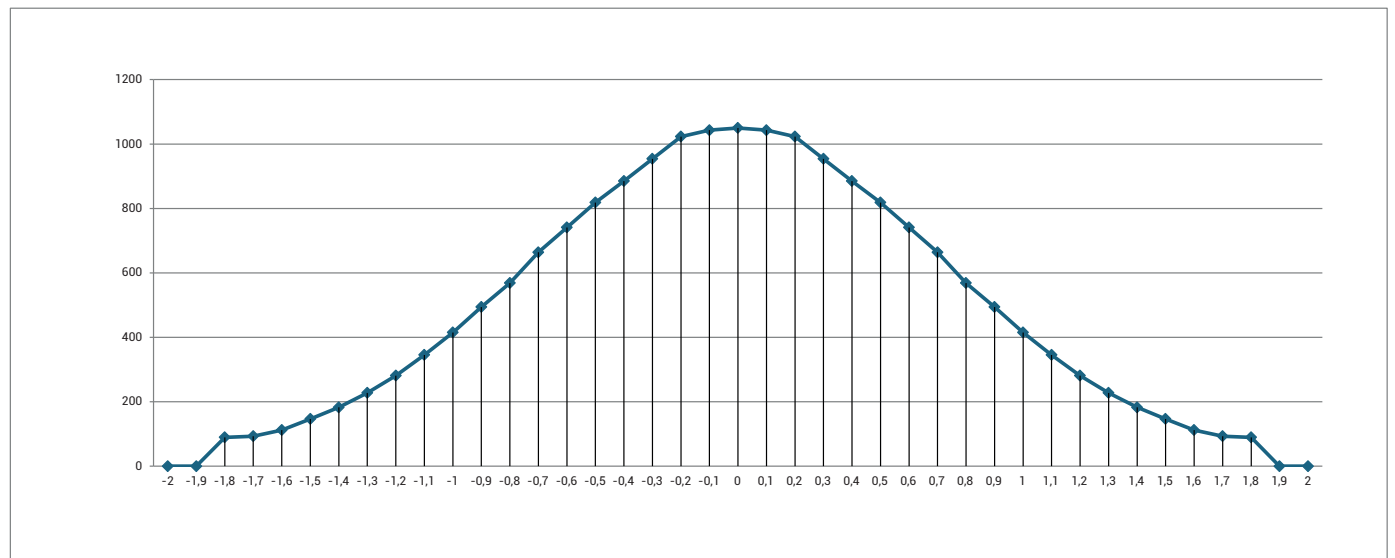
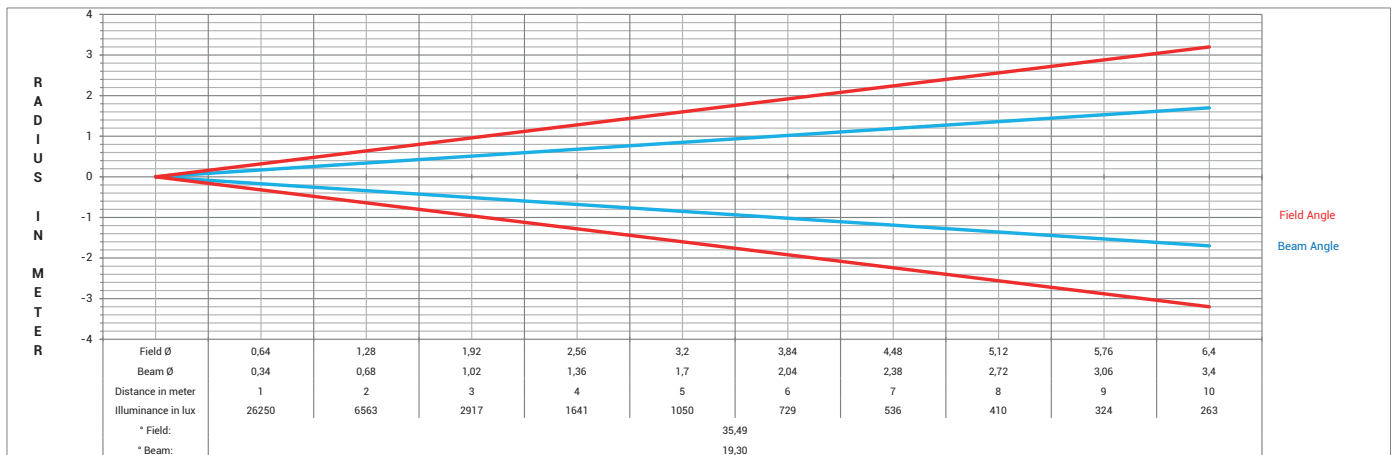
Colour System

Colour System	RGBL - BC Color System
Control	8 bits / 16 bits

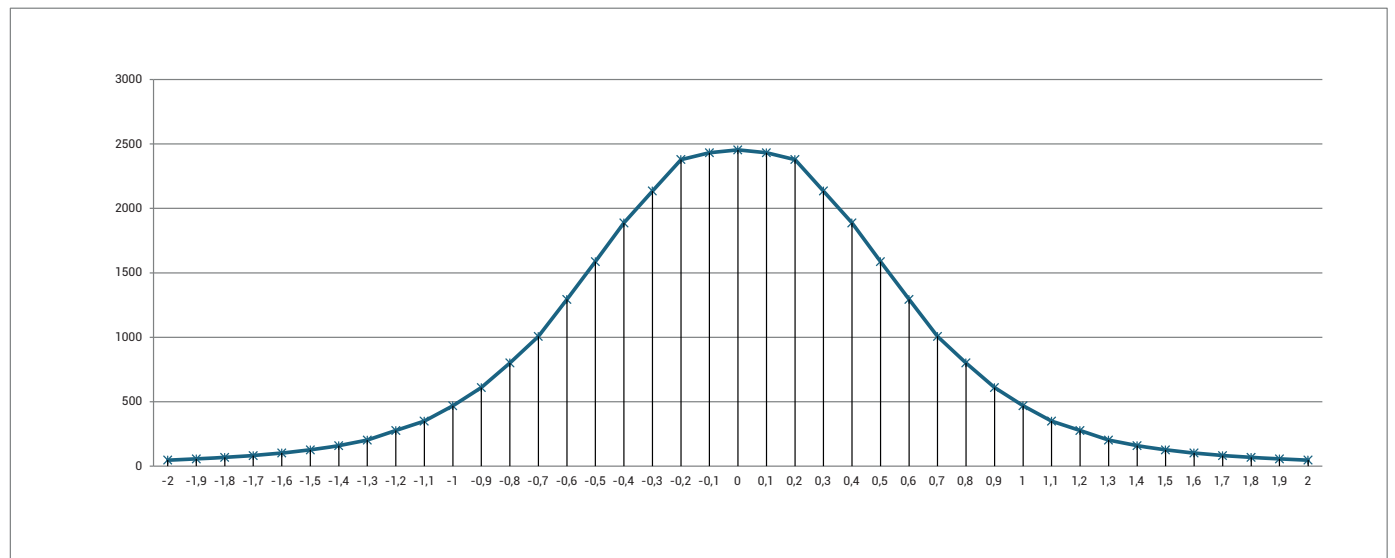
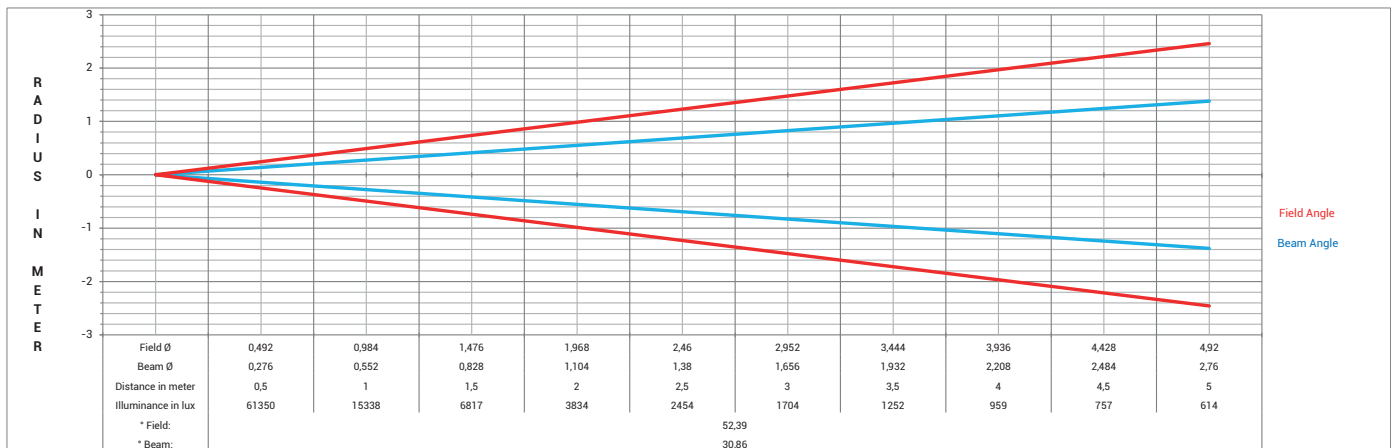
Photometric Data - 12° (NATIVE)



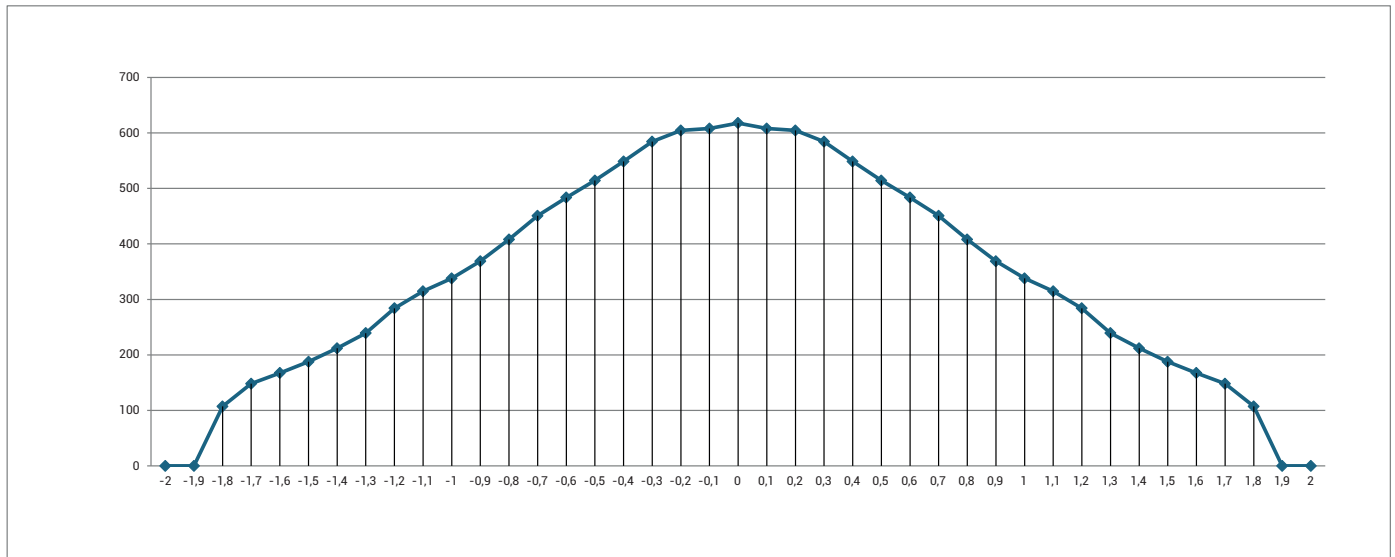
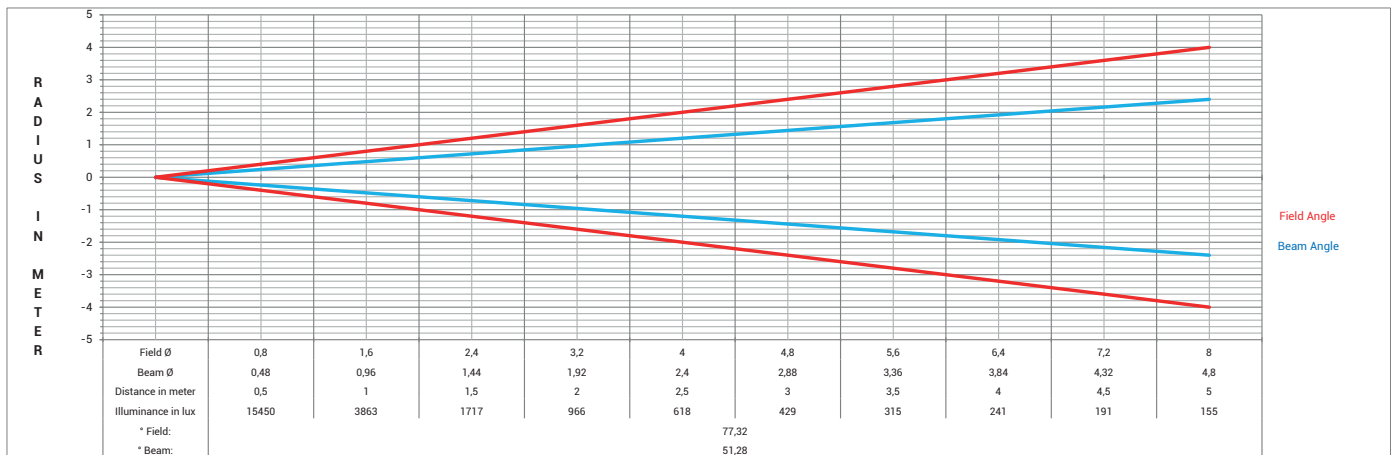
Photometric Data - 20° Filter



Photometric Data - 40° Filter

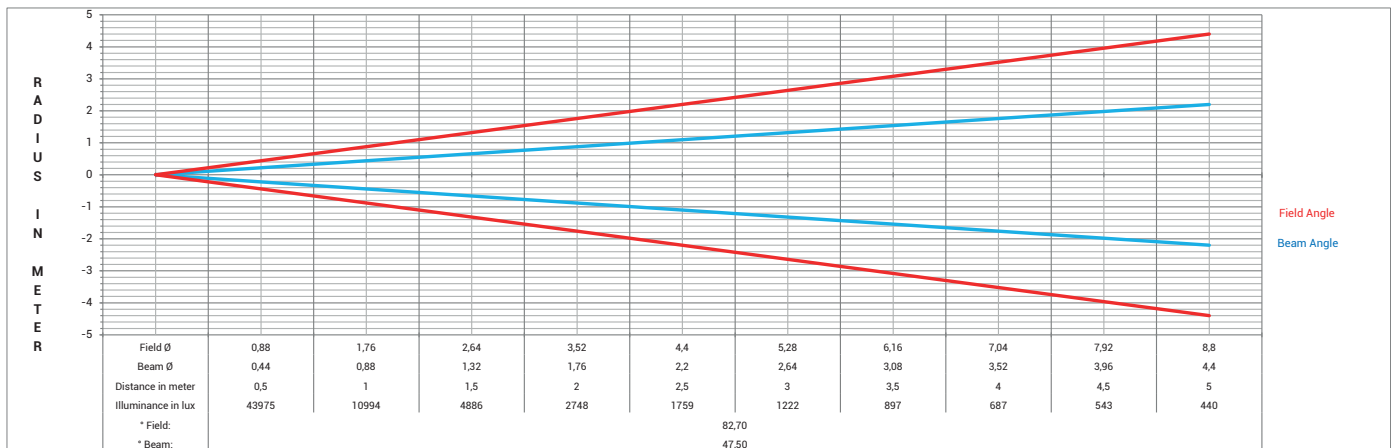


Photometric Data - 60° Filter

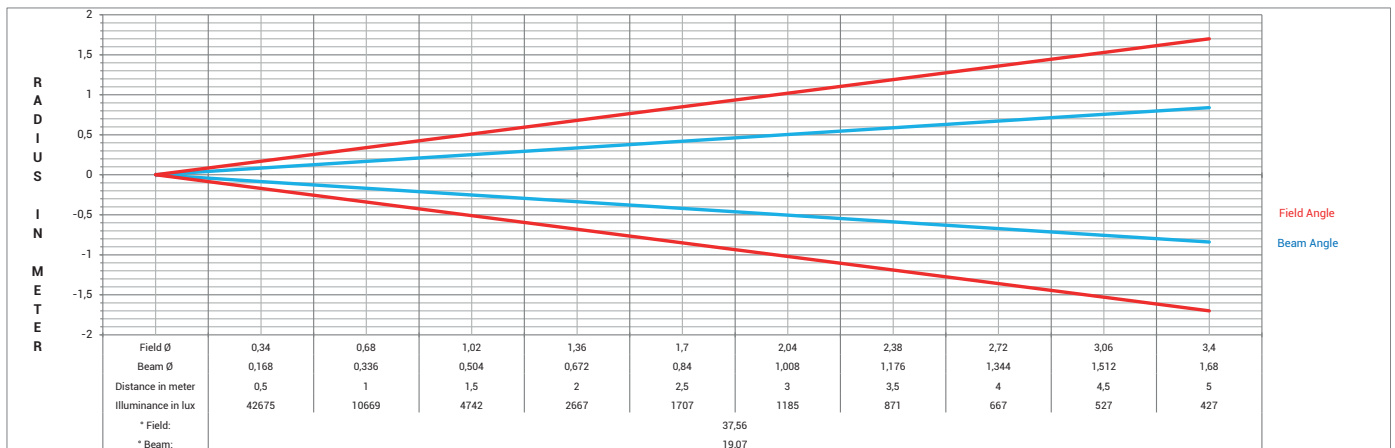


Photometric Data - 60°x10° Filter

Horizontal illumination

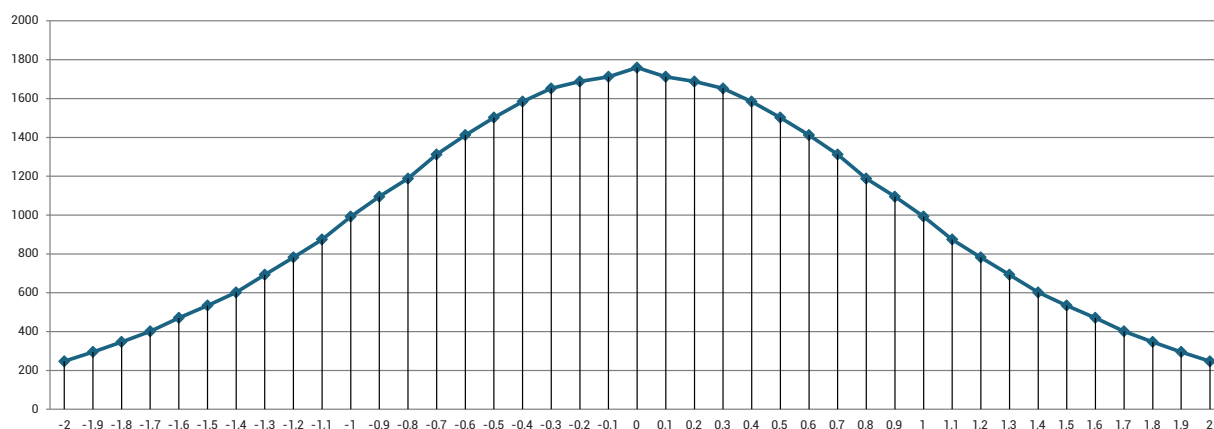


Vertical illumination

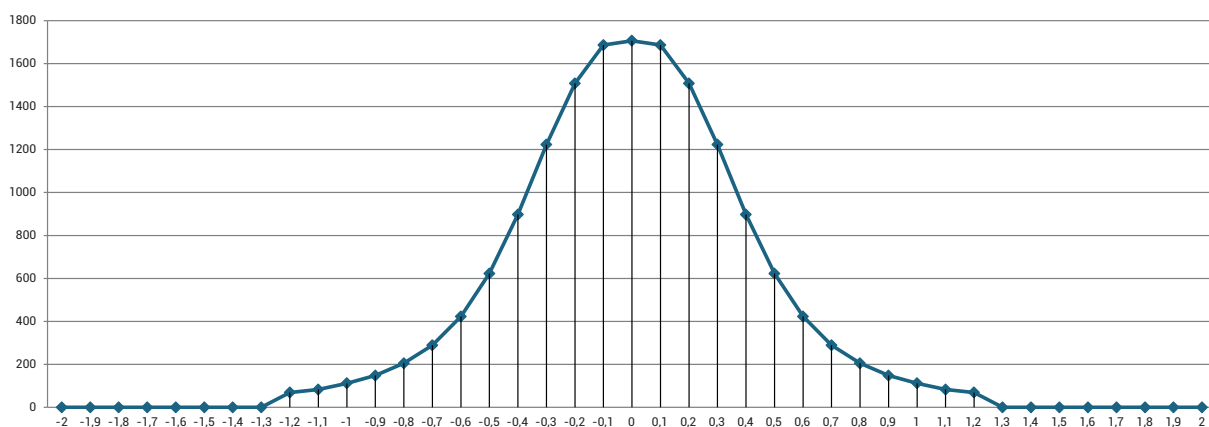


Photometric Data - 60°x10° Filter

Horizontal distribution



Vertical distribution



RGB + Lime Spectrum Test Report

Native 12° @ 5m

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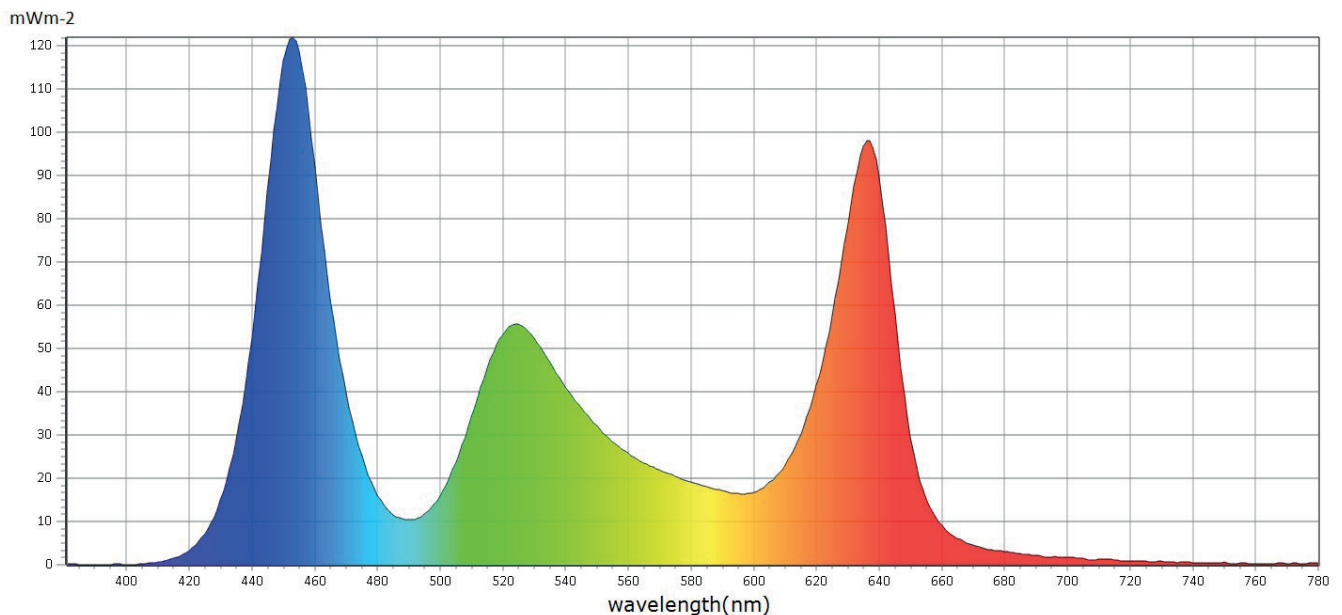
Information

User :	Measure Time :19:45:00
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
FULL	

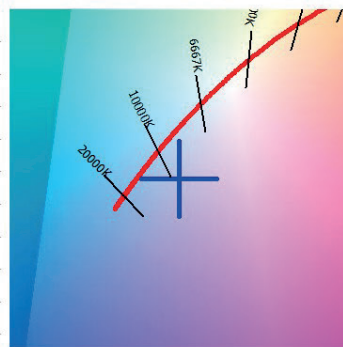
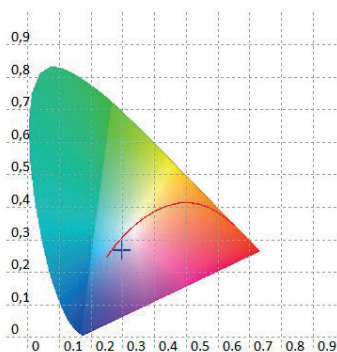
BASIC

CRI	: 57,7
x	: 0,2958
y	: 0,2691
CCT	: 9300
LUX	: 2390

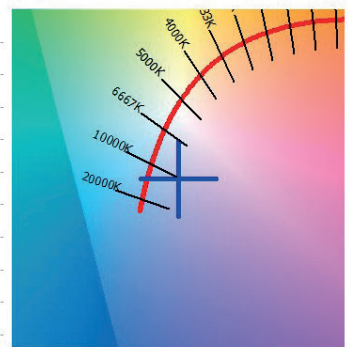
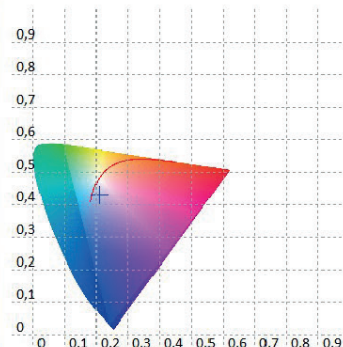
Spectrum



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CIE1976



RGB + Lime Spectrum Test Report

Native 12° @ 5m

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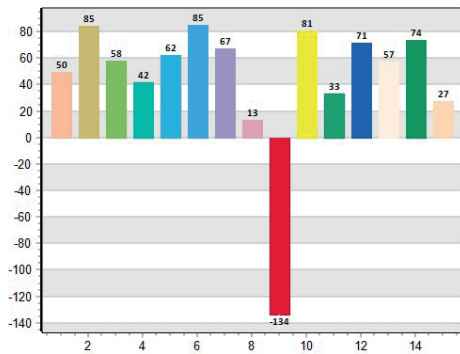
Information

User : Measure Time :19:45:00
Model NO. : MK350S PREMIUM Light Source :
Memo :
FULL

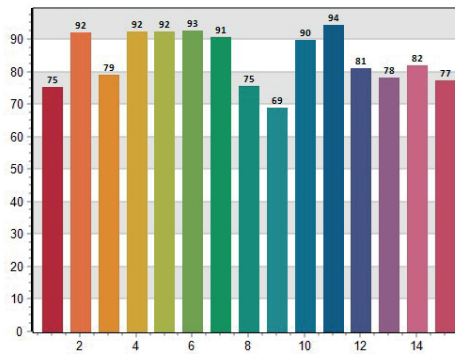
BASIC

CRI : 57,7
X : 0,2958
Y : 0,2691
CCT : 9300
LUX : 2390

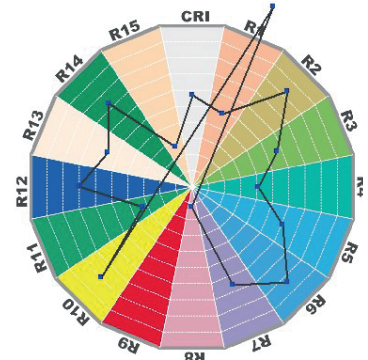
CRI: 57,65



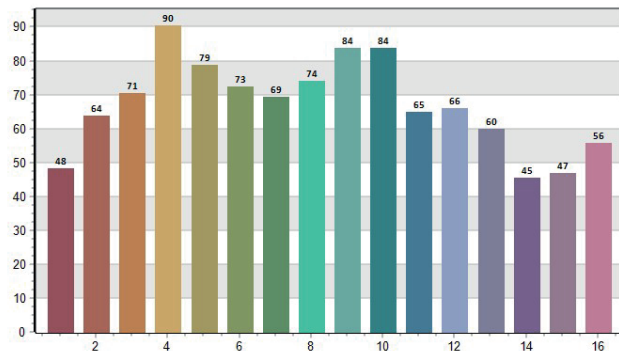
CQS: 82,18



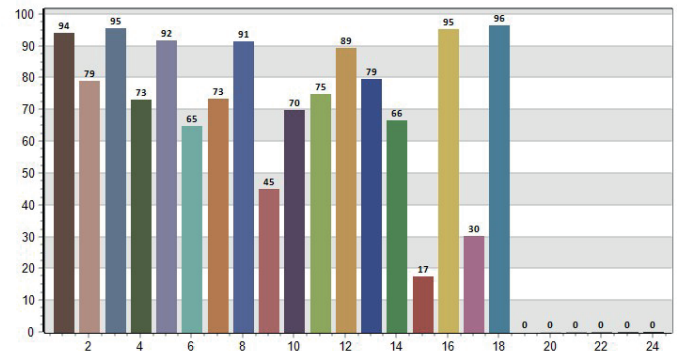
CRI-2



TM30: 72,98



TLCI: 47,82



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
49,6	84,6	57,9	42,0	62,0	85,1	67,1	13,0	-133,9	81,1	33,5	71,4	57,1	74,0	27,2

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
48,1	63,8	70,5	90,4	78,7	72,5	69,4	74,2	83,6	83,8	65,0	66,1	59,8	45,5	46,8	55,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75,2	92,0	79,1	92,4	92,2	92,7	90,6	75,4	68,9	89,7	94,3	81,1	78,1	81,9	77,4

3200 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

UPRtek
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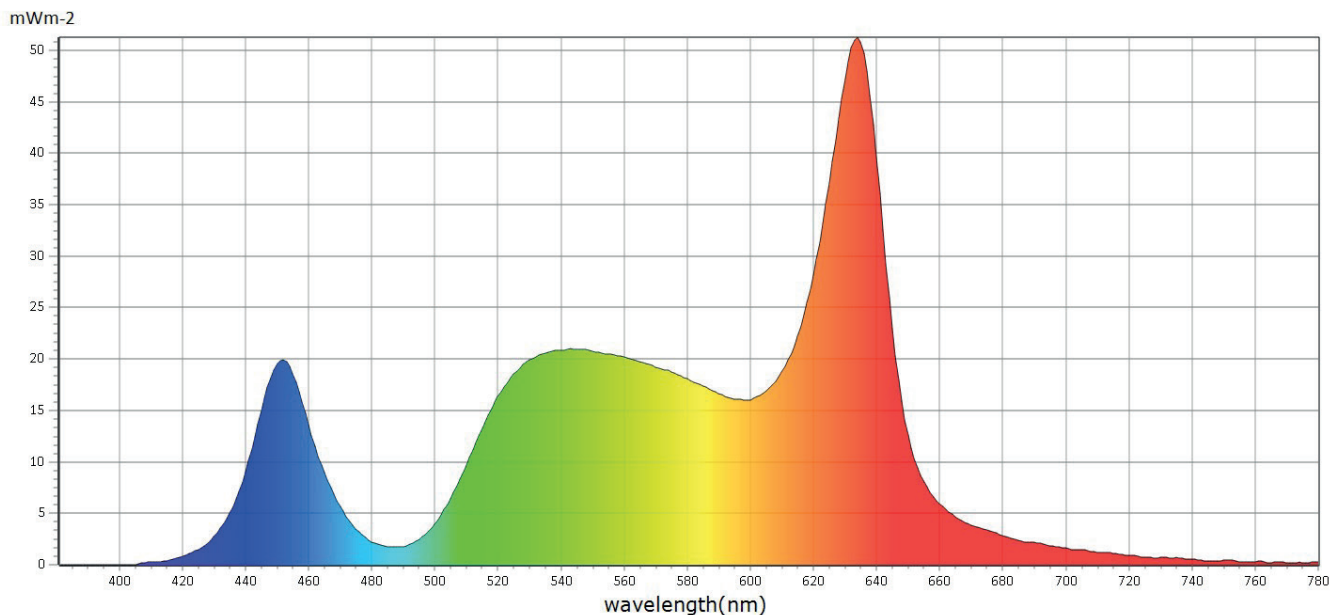
Information

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Model NO. : MK350S PREMIUM	Light Source :
Memo :	
3200	

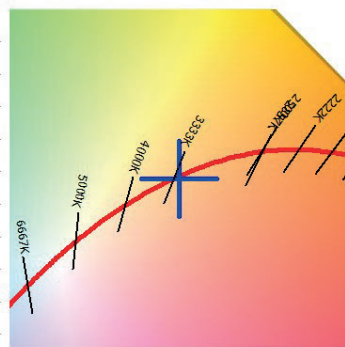
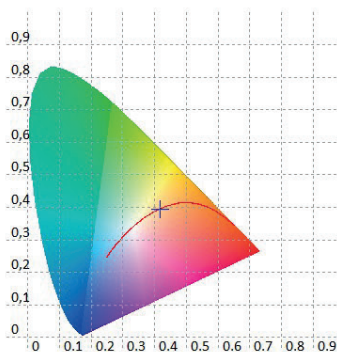
BASIC

CRI	: 87,4
x	: 0,4183
y	: 0,3946
CCT	: 3261
LUX	: 1353

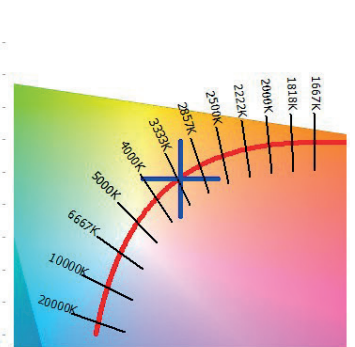
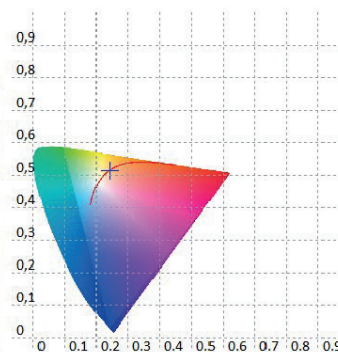
Spectrum



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3200 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

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United Power Research Technology Corporation

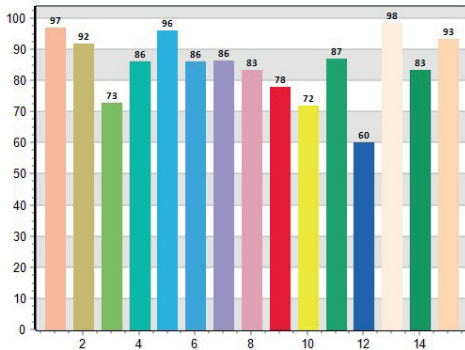
Information

User : Measure Time :19:48:29
Model NO. : MK350S PREMIUM Light Source :
Memo :
3200

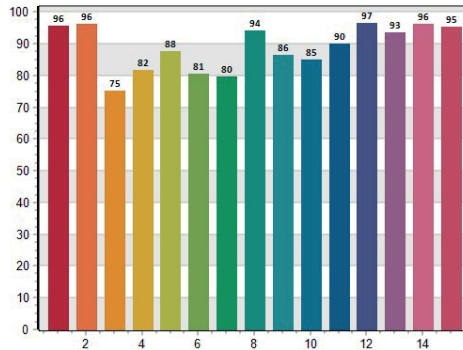
BASIC

CRI : 87,4
X : 0,4183
Y : 0,3946
CCT : 3261
LUX : 1353

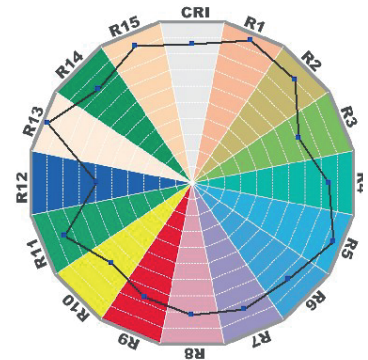
CRI: 87,40



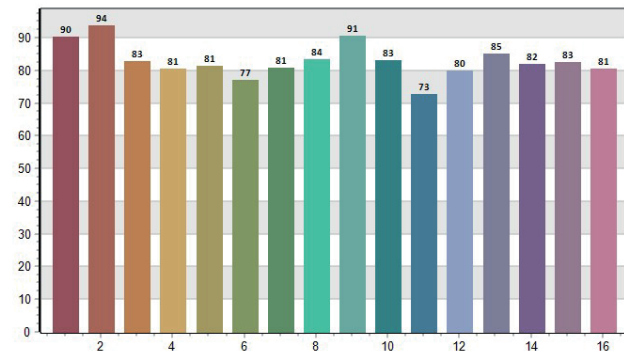
CQS: 86,74



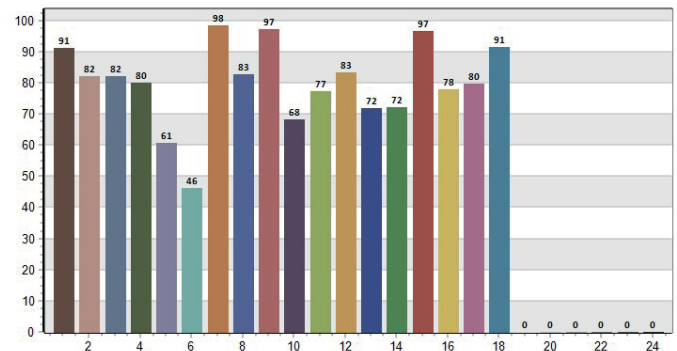
CRI-2



TM30: 85,05



TLCI: 73,59



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
96,9	91,7	72,8	86,0	96,2	86,0	86,2	83,3	78,1	71,9	87,0	60,1	98,5	83,4	93,3

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
90,3	93,8	82,9	80,6	81,3	77,1	80,9	83,5	90,5	83,1	72,8	80,0	85,2	82,0	82,7	80,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,6	96,1	75,1	81,7	87,6	80,5	79,6	94,3	86,4	85,1	90,2	96,6	93,5	96,4	95,3

5600 K (calibrated macro) Spectrum Test Report

Slot #7

Native 12° @ 5m

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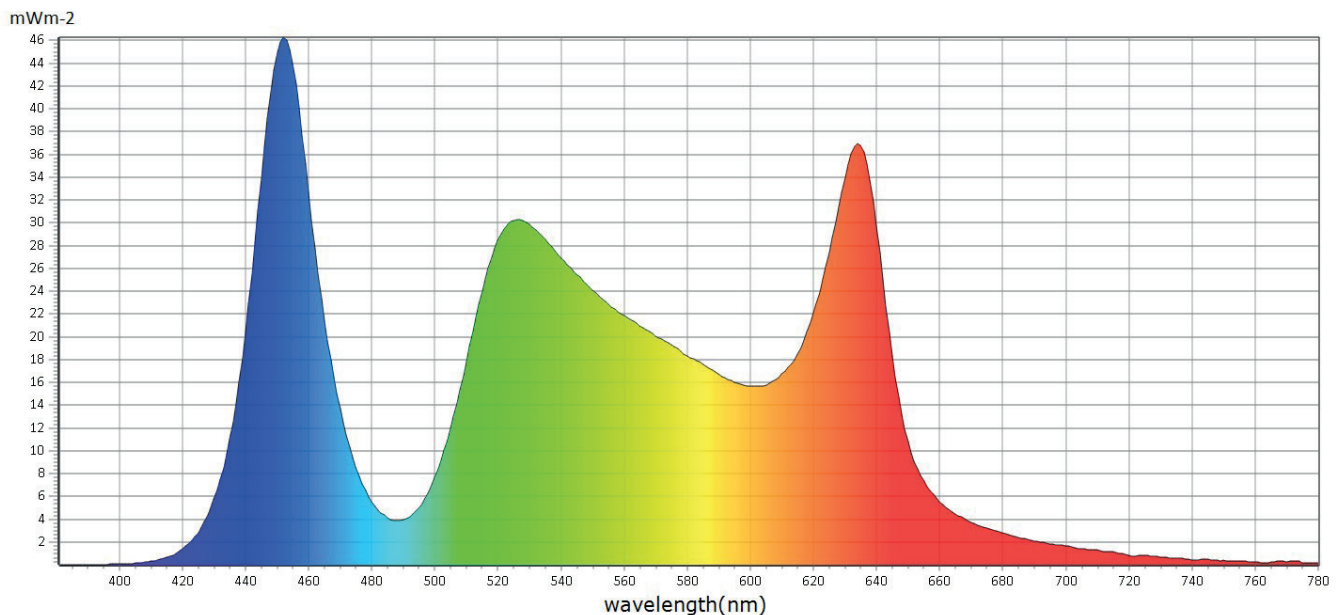
Information

User :	Measure Time :19:48:36
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
5600	

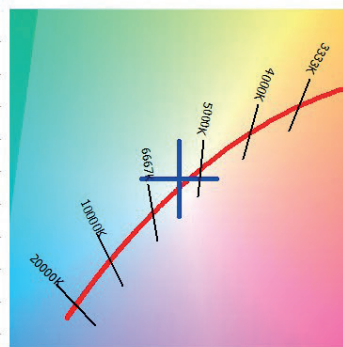
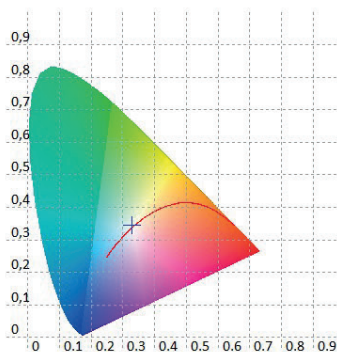
BASIC

CRI	: 86,0
x	: 0,3297
y	: 0,3445
CCT	: 5620
LUX	: 1545

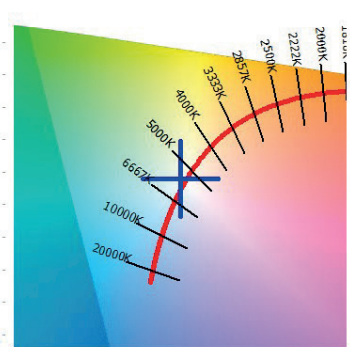
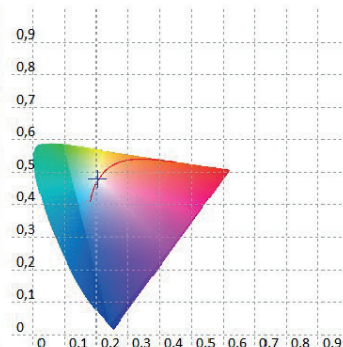
Spectrum



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5600 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

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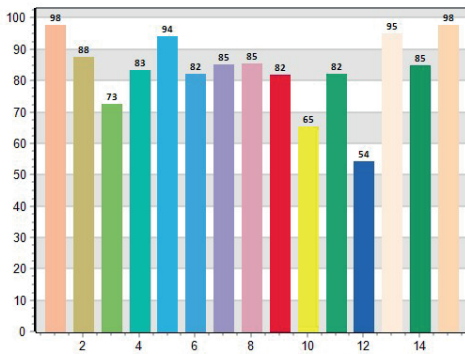
Information

User : Measure Time :19:48:36
Model NO. : MK350S PREMIUM Light Source :
Memo :
5600

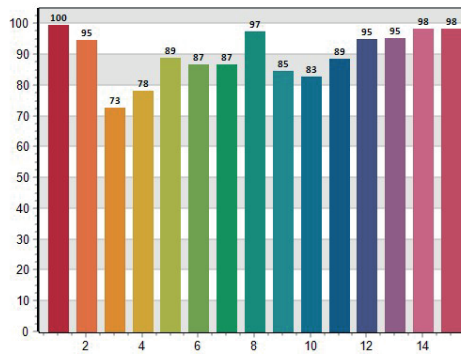
BASIC

CRI : 86,0
X : 0,3297
Y : 0,3445
CCT : 5620
LUX : 1545

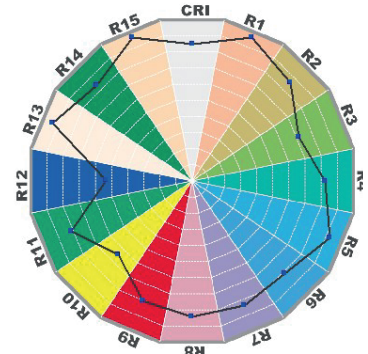
CRI: 86,00



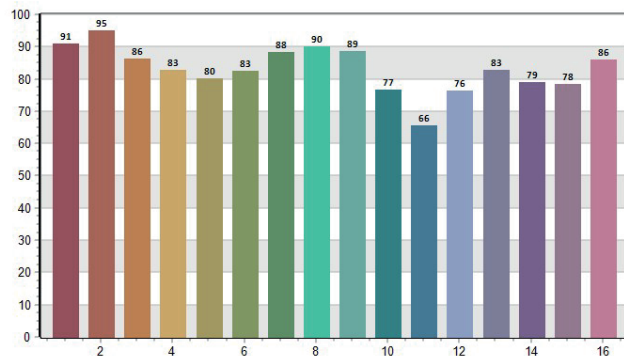
CQS: 87,18



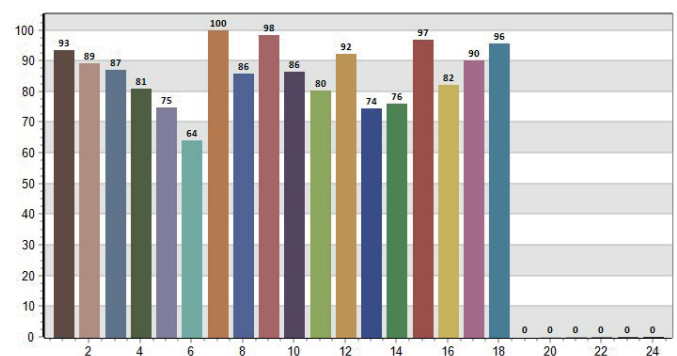
CRI-2



TM30: 84,79



TLCI: 82,44



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
97,7	87,7	72,5	83,4	94,0	82,1	85,1	85,4	81,8	65,4	82,1	54,4	95,0	84,8	97,7

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
91,0	95,0	86,3	82,7	80,3	82,5	88,3	90,1	88,5	76,6	65,6	76,4	82,7	79,1	78,5	85,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,5	94,5	72,5	78,2	88,9	86,7	86,8	97,4	84,6	82,7	88,6	94,9	95,2	98,3	98,2

6500 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

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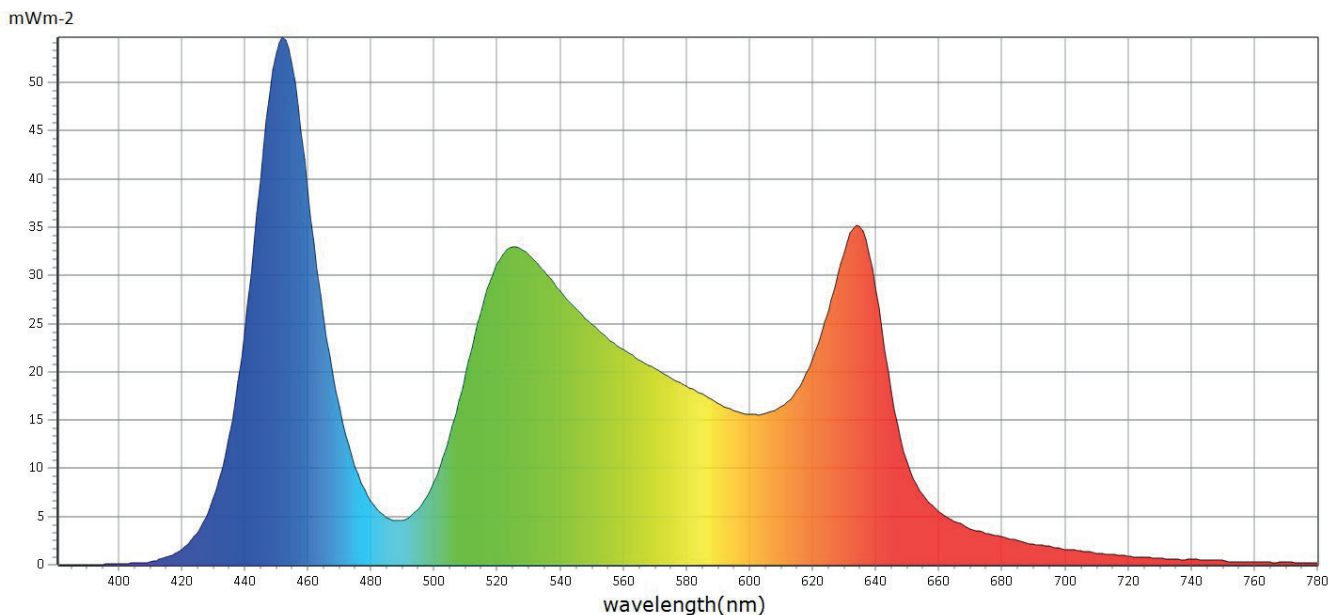
Information

User :	Measure Time :19:48:38
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
6500	

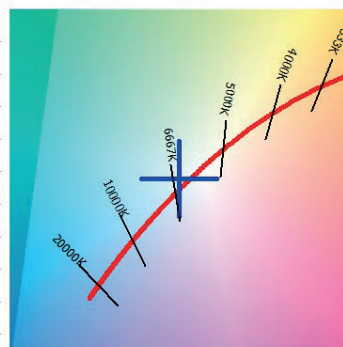
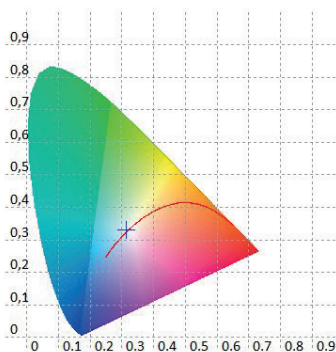
BASIC

CRI	: 85,9
x	: 0,3138
y	: 0,3303
CCT	: 6434
LUX	: 1601

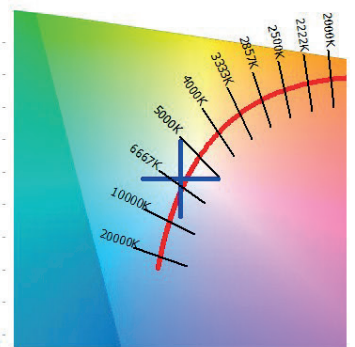
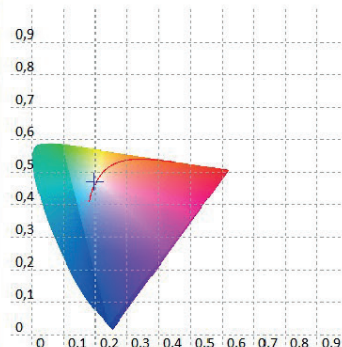
Spectrum



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CIE1976



6500 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

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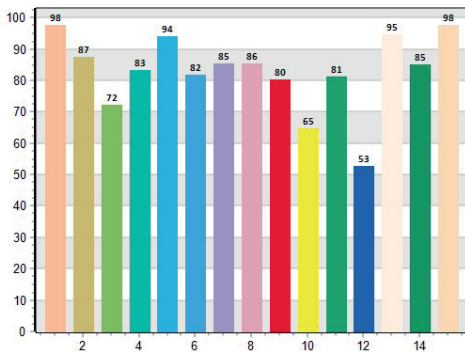
Information

User : Measure Time :19:48:38
Model NO. : MK350S PREMIUM Light Source :
Memo :
6500

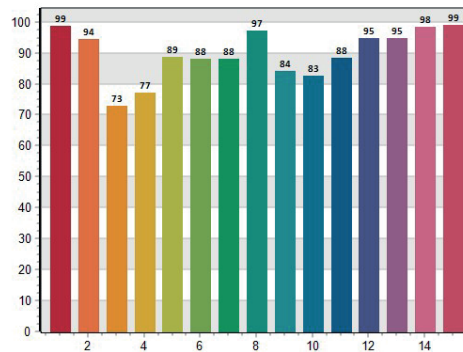
BASIC

CRI : 85,9
X : 0,3138
Y : 0,3303
CCT : 6434
LUX : 1601

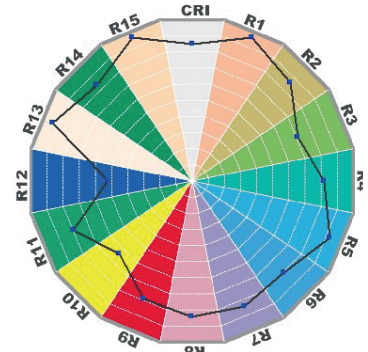
CRI: 85,89



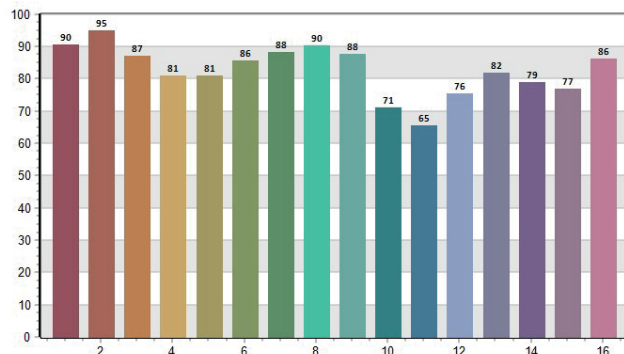
CQS: 87,18



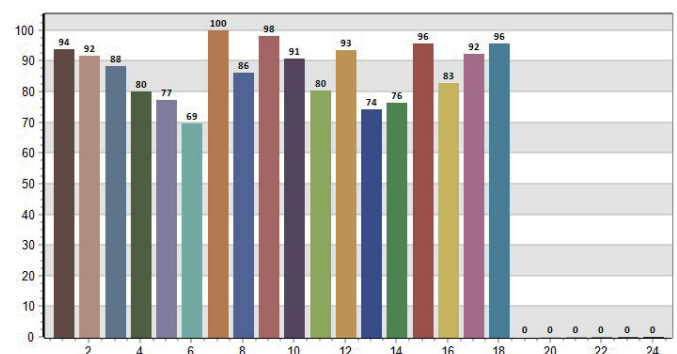
CRI-2



TM30: 84,60



TLCI: 83,96



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
97,5	87,4	72,2	83,4	93,9	81,8	85,4	85,5	80,3	64,6	81,2	52,8	94,8	84,9	97,7

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
90,5	95,0	87,0	81,1	80,8	85,6	88,2	90,3	87,8	71,2	65,4	75,6	81,9	79,1	77,0	86,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,6	94,5	72,8	77,2	88,7	88,0	87,9	97,2	84,2	82,5	88,5	94,8	94,7	98,3	99,0

8000 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

UPRtek
United Power Research Technology Corporation

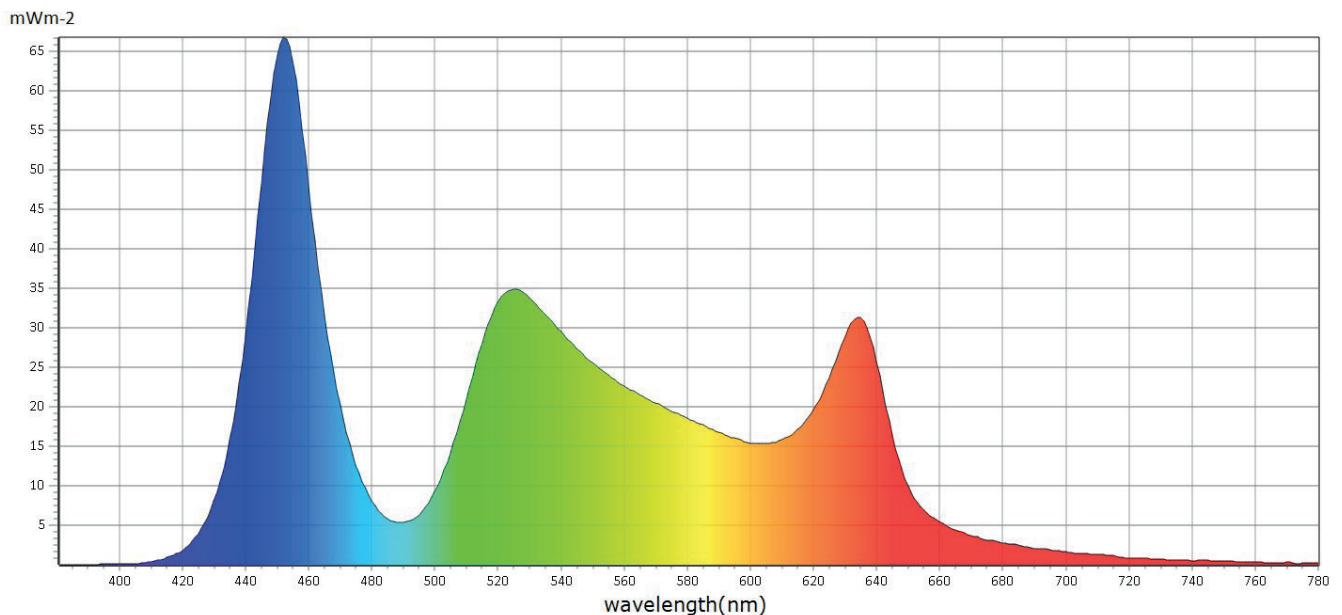
Information

User :	Measure Time :19:48:40
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
8000	

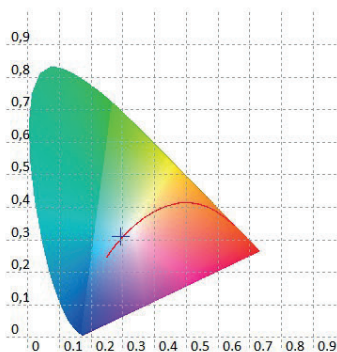
BASIC

CRI	: 85,8
x	: 0,2943
y	: 0,3096
CCT	: 7948
LUX	: 1635

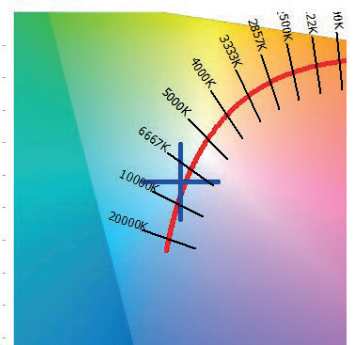
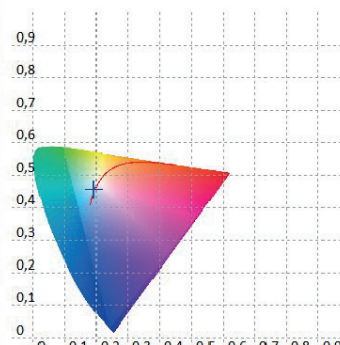
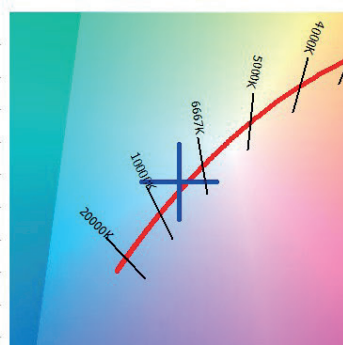
Spectrum



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8000 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

UPRtek
United Power Research Technology Corporation

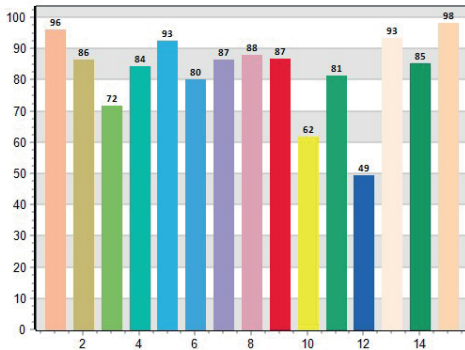
Information

User : Measure Time :19:48:40
Model NO. : MK350S PREMIUM Light Source :
Memo :
8000

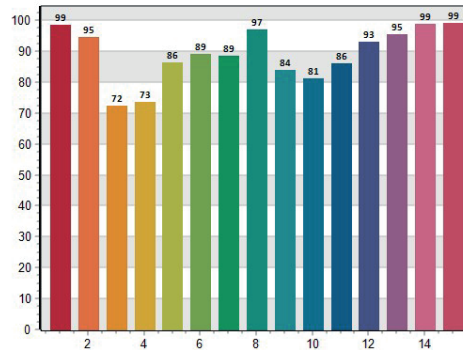
BASIC

CRI : 85,8
X : 0,2943
Y : 0,3096
CCT : 7948
LUX : 1635

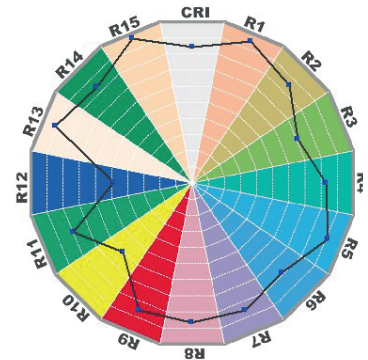
CRI: 85,76



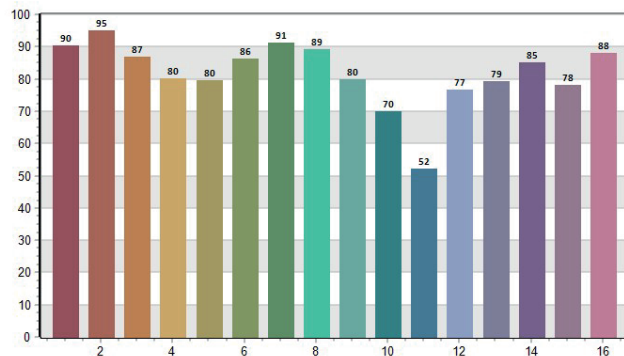
CQS: 86,27



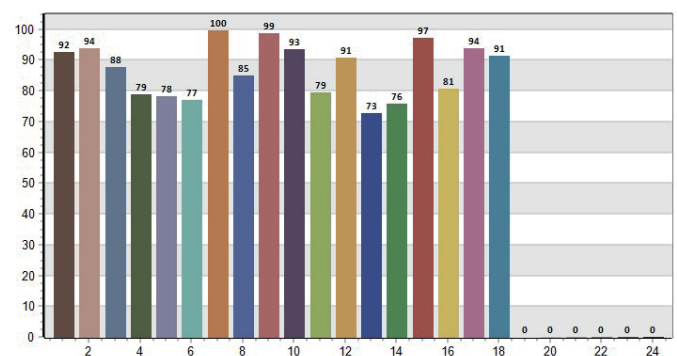
CRI-2



TM30: 83,68



TLCI: 84,33



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
96,2	86,4	71,8	84,2	92,5	80,3	86,6	88,1	86,7	61,9	81,2	49,4	93,4	85,1	98,2

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
90,4	95,1	86,8	80,2	79,7	86,4	91,3	89,2	79,8	70,0	52,3	76,8	79,4	85,0	78,1	88,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,7	94,5	72,3	73,5	86,3	89,0	88,6	97,1	83,9	81,2	86,1	93,0	95,5	98,9	99,1

Red @100% Spectrum Test Report

Native 12° @ 5m

UPRtek
United Power Research Technology Corporation

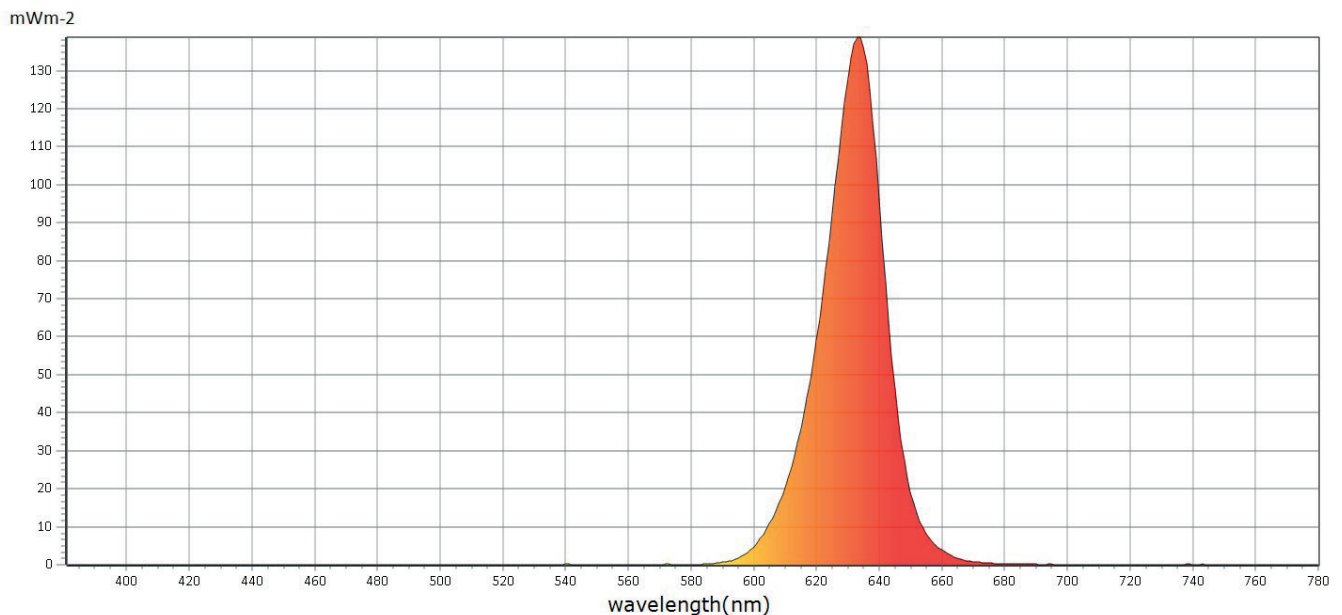
Information

User :	Measure Time :19:44:53
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
RED	

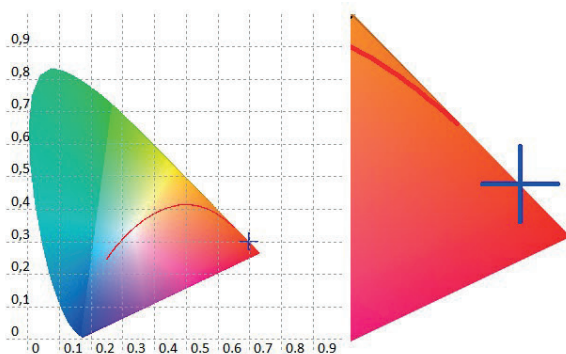
BASIC

CRI	: 0,0
x	: 0,6974
y	: 0,3021
CCT	: 0
LUX	: 635,7

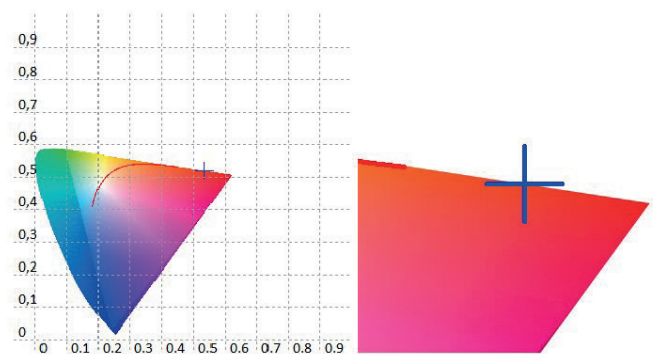
Spectrum



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Green @100% Spectrum Test Report

Native 12° @ 5m

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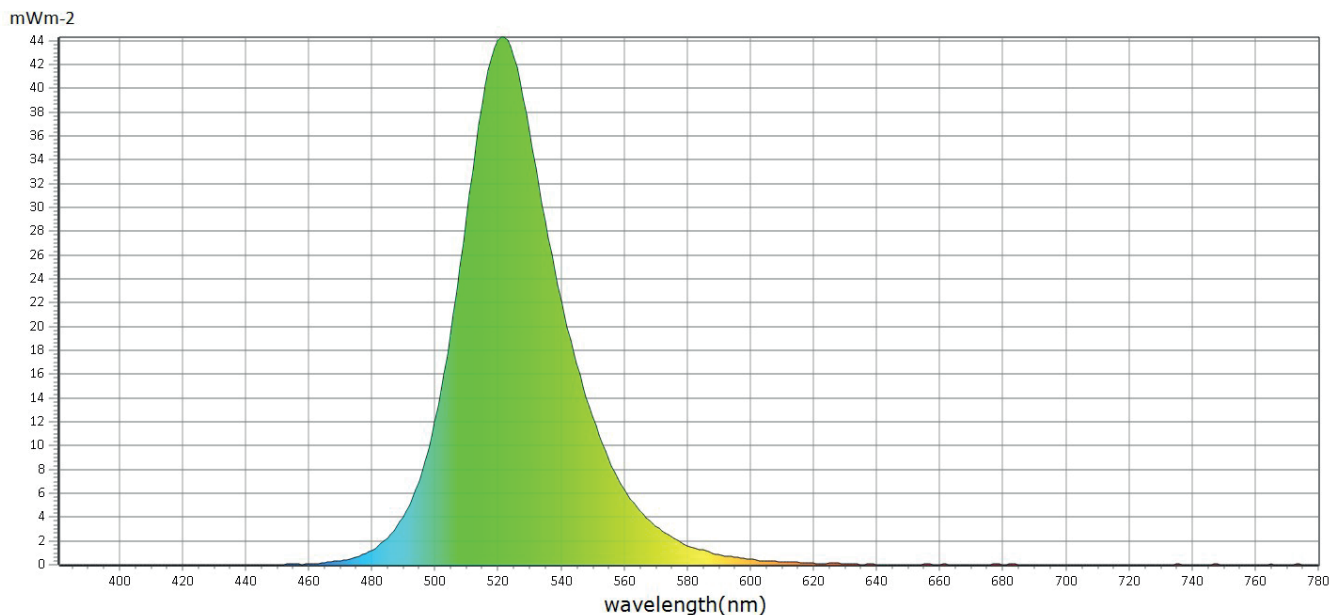
Information

User :	Measure Time :19:44:55
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
GREEN	

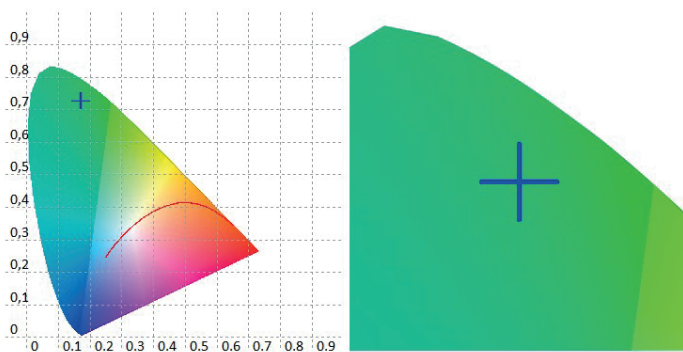
BASIC

CRI	: 0,0
x	: 0,1703
y	: 0,7258
CCT	: 7809
LUX	: 857,0

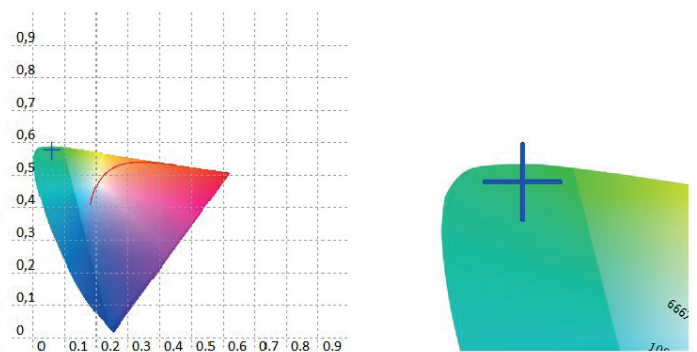
Spectrum



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Blue @100% Spectrum Test Report

Native 12° @ 5m

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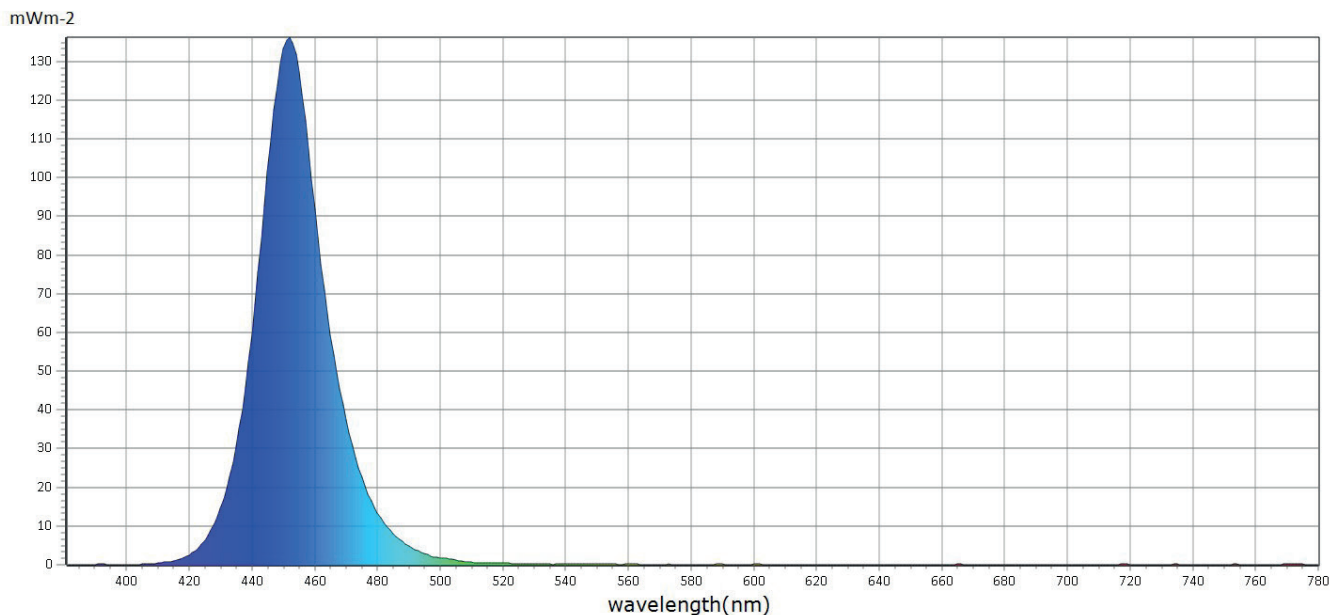
Information

User :	Measure Time :19:44:56
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
BLUE	

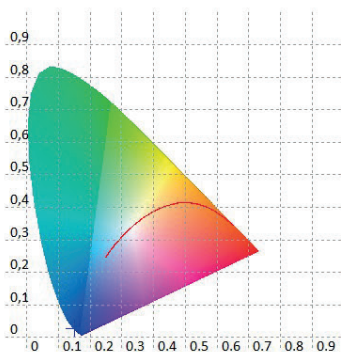
BASIC

CRI	: 0,0
x	: 0,1519
y	: 0,0280
CCT	: 0
LUX	: 135,5

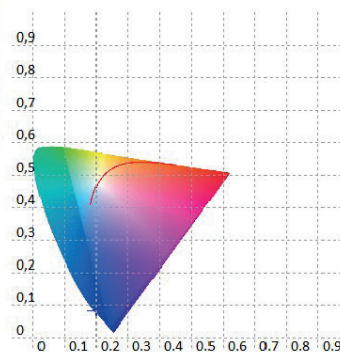
Spectrum



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Lime @100% Spectrum Test Report

Native 12° @ 5m

UPRtek
United Power Research Technology Corporation

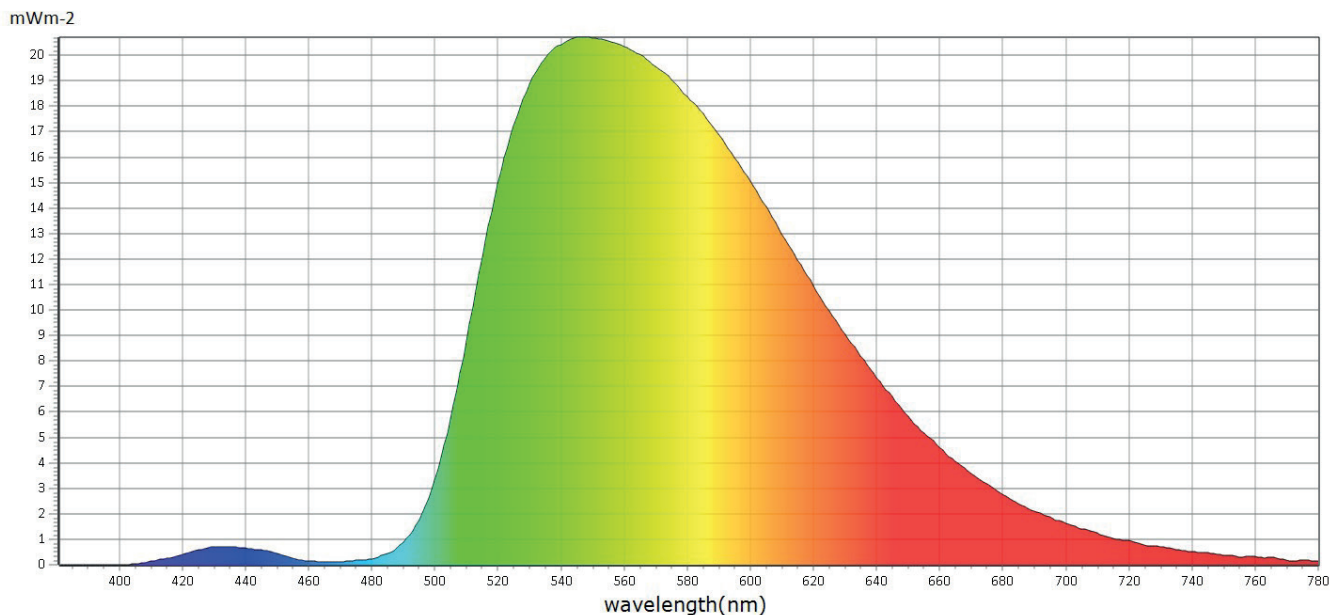
Information

User :	Measure Time :19:44:58
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
LIME	

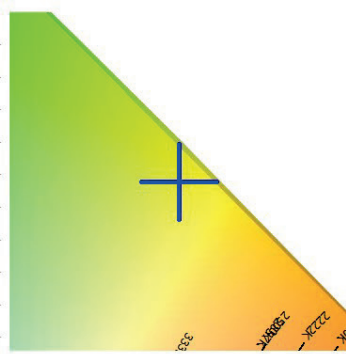
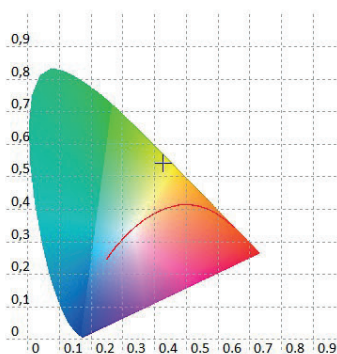
BASIC

CRI	: 46,9
x	: 0,4265
y	: 0,5423
CCT	: 3983
LUX	: 1132

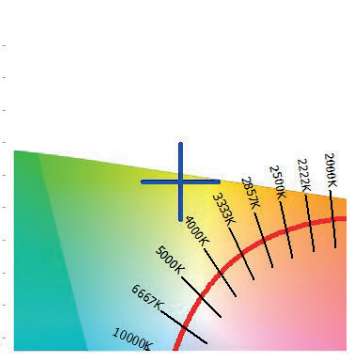
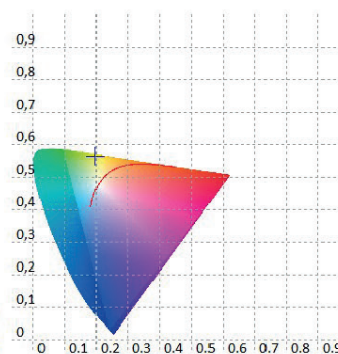
Spectrum



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