



Developed for demanding environments in indoor or outdoor events, **Astra 180HDL** offers a range of IP65 LED fixtures combining power, optical precision and long-lasting reliability.

Thanks to its 12x15W RGB + Lime LEDs and 12° fixed angle, **Astra 180HDL** provides rich and subtle colour mixing, delivering both deep saturated colours and accurately calibrated whites, with smooth fades and excellent uniformity.

Astra 180HDL 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 180HDL** 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 180HDL** 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.

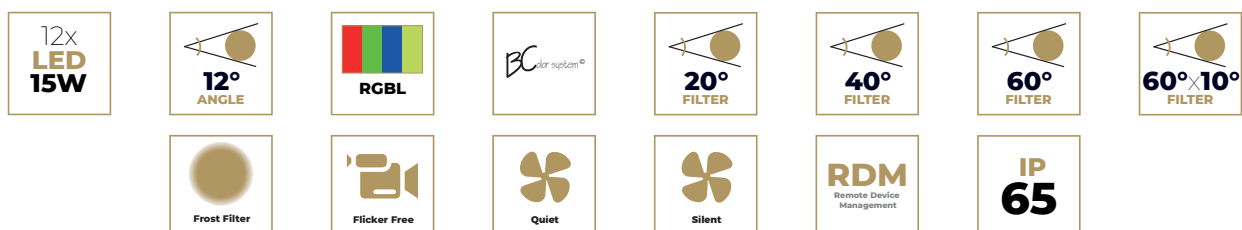


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[Find the technical datasheet here :](#)



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[Manual](#)



[DMX Chart](#)



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Source

Engine	RGB + Lime
LED Watts	12x 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)	6334 lm
Fixture Illuminance	Narrow: 4976 lux@5m 12° Medium: 2061 lux@5m 20° Wide: 340 lux@5m 60°
Fixture CCT Output	1800 - 10000 K
CRI	@6500k: 86 @3200k: 86.9
Tm30	@6500k: 84.31 @3200k: 85.78
TLCI	@6500k: 83.77 @3200k: 76.19
CQS	@6500k: 86.44 @3200k: 86.91

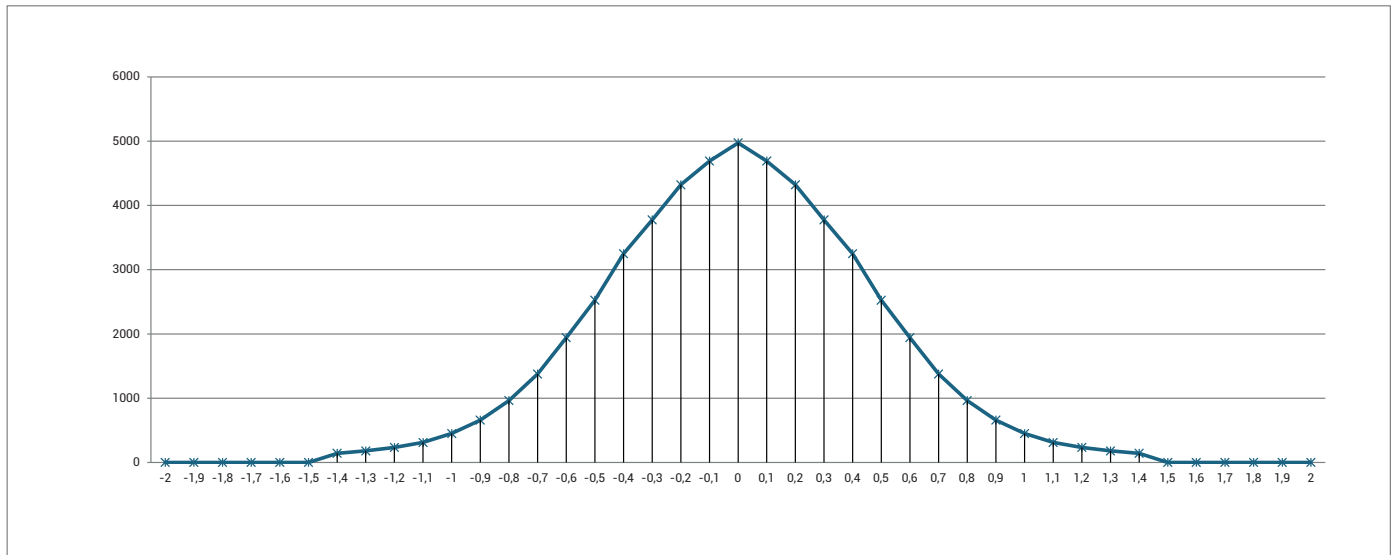
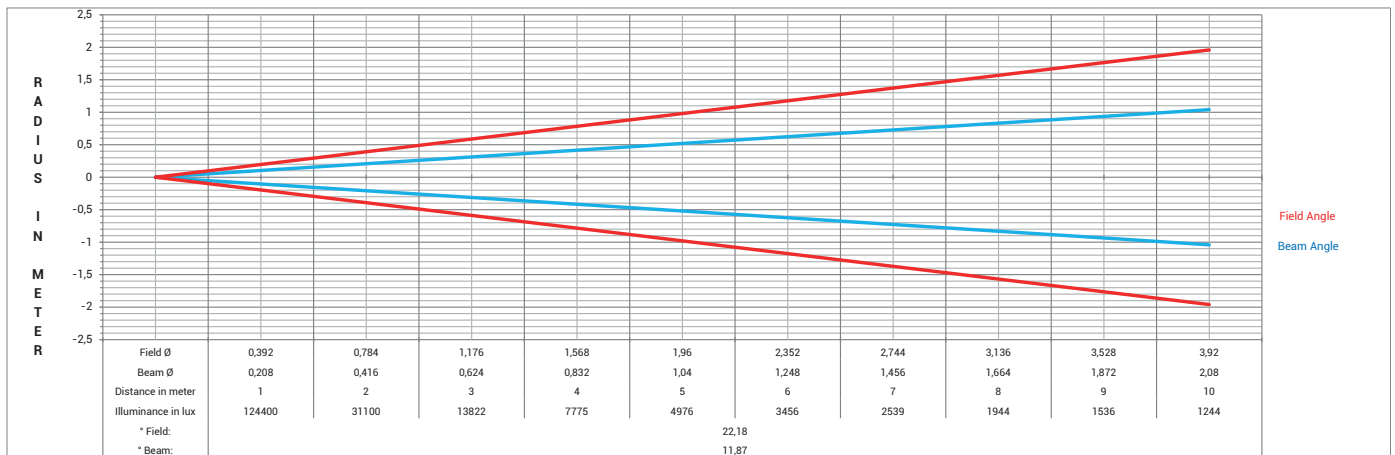
Optical

Lens Diameter	30 mm (Individual) 141.4 mm (Total)
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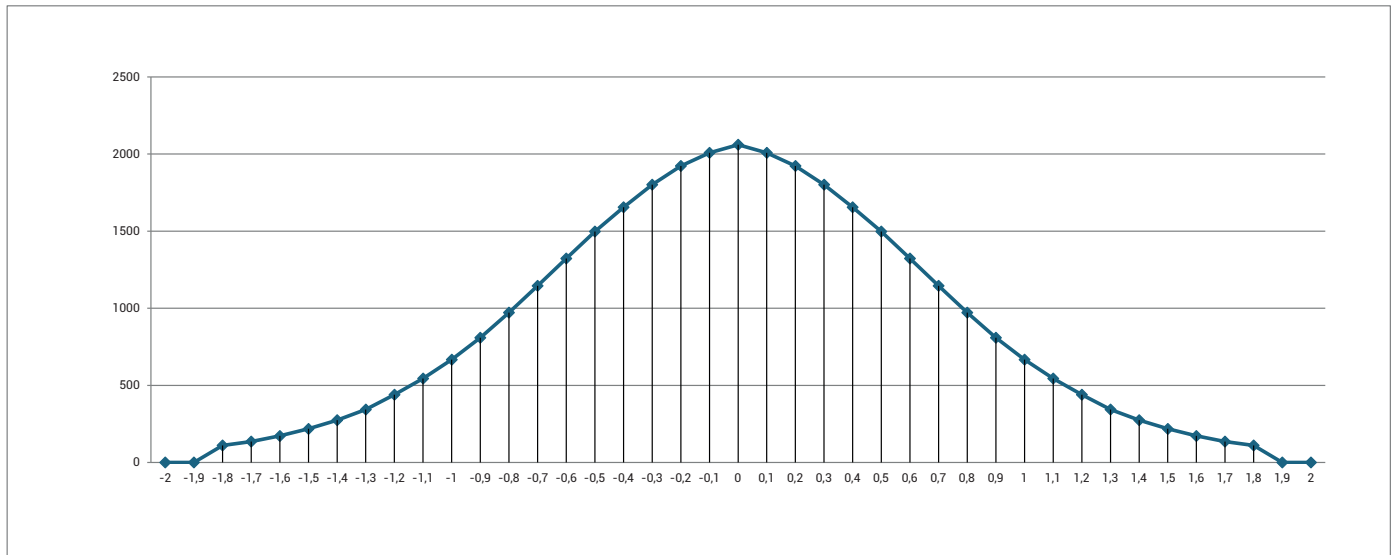
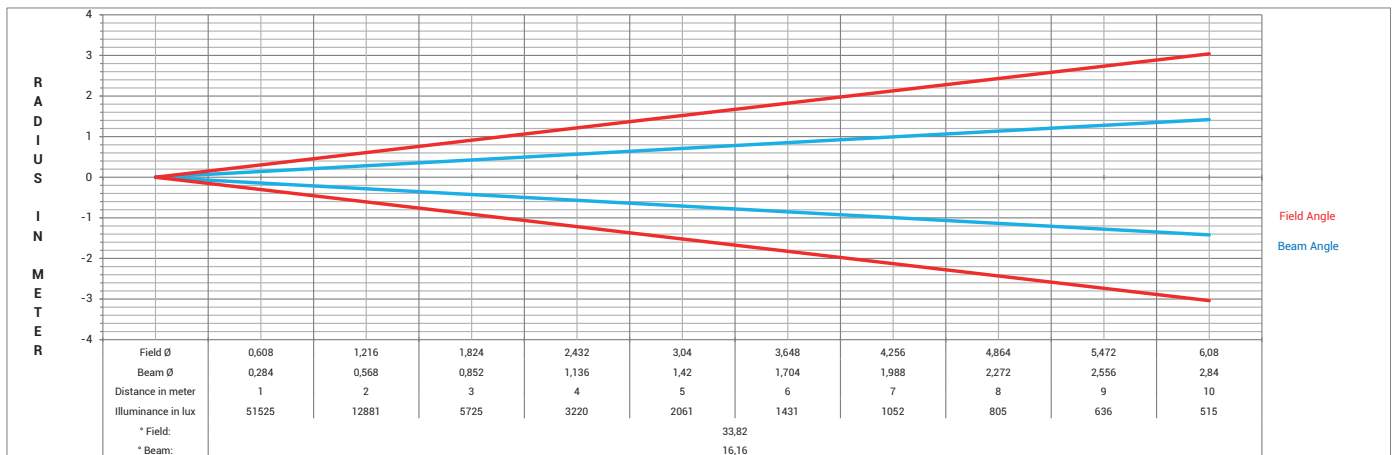
Colour System

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

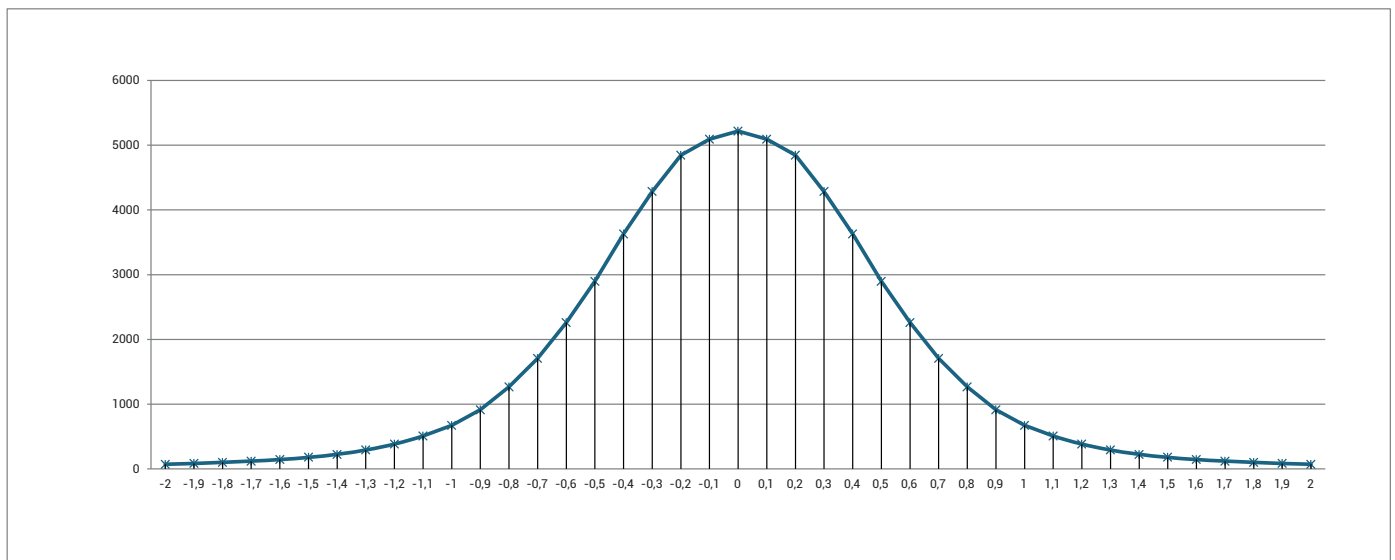
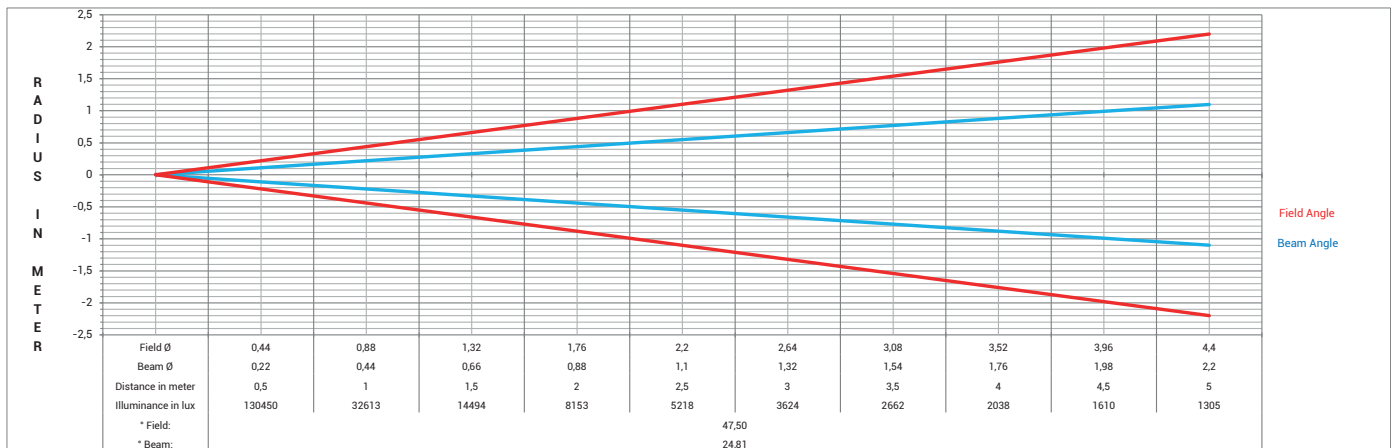
Photometric Data - 12° (NATIVE)



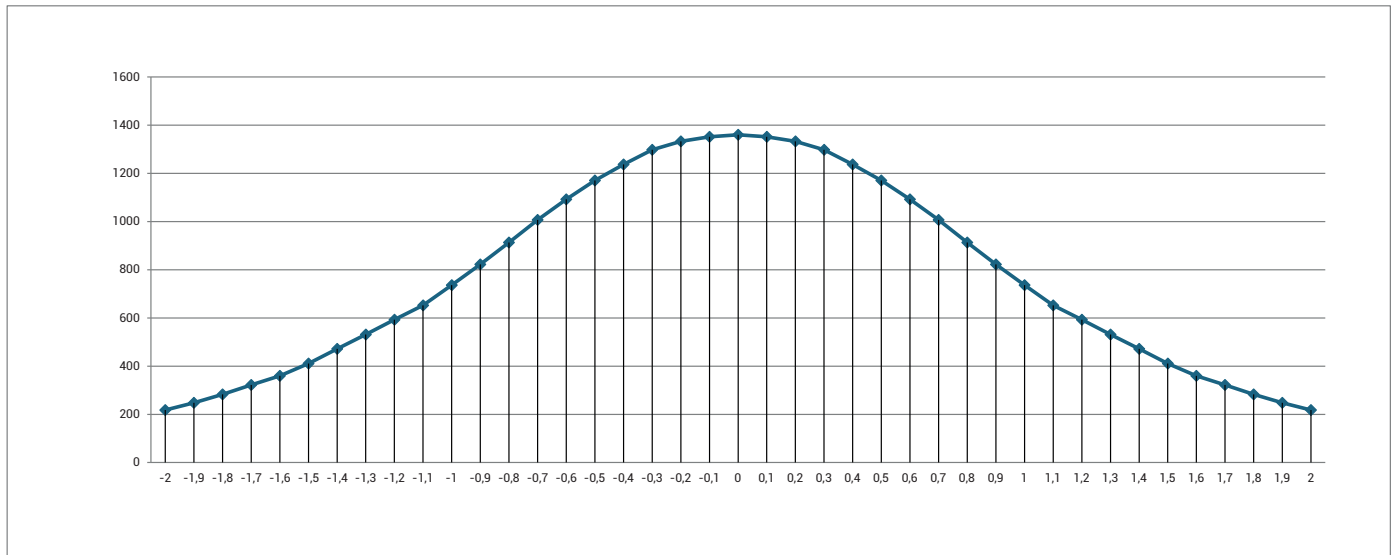
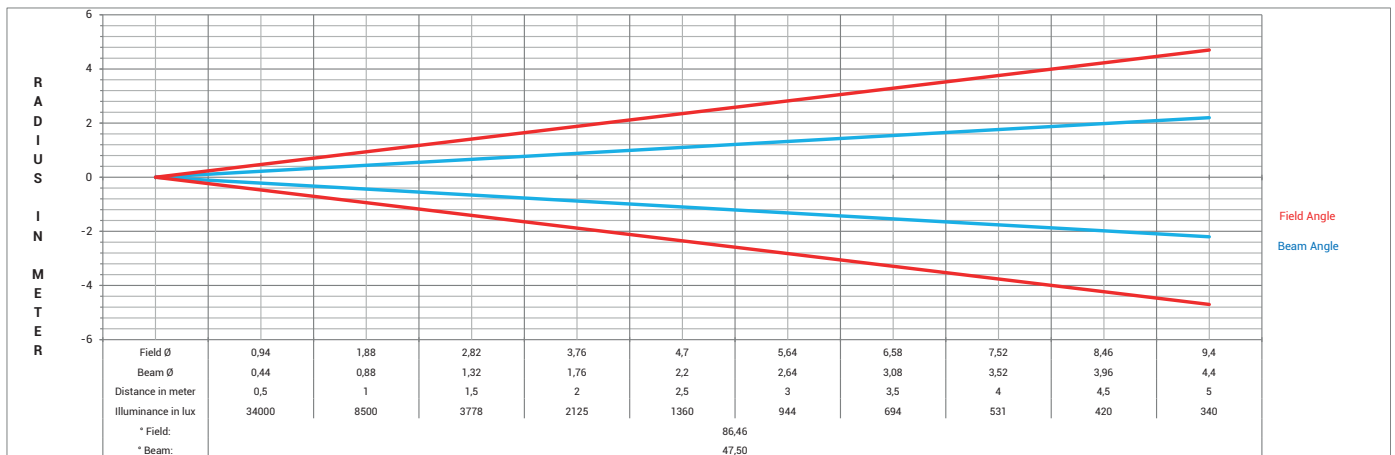
Photometric Data - 20° Filter



Photometric Data - 40° Filter

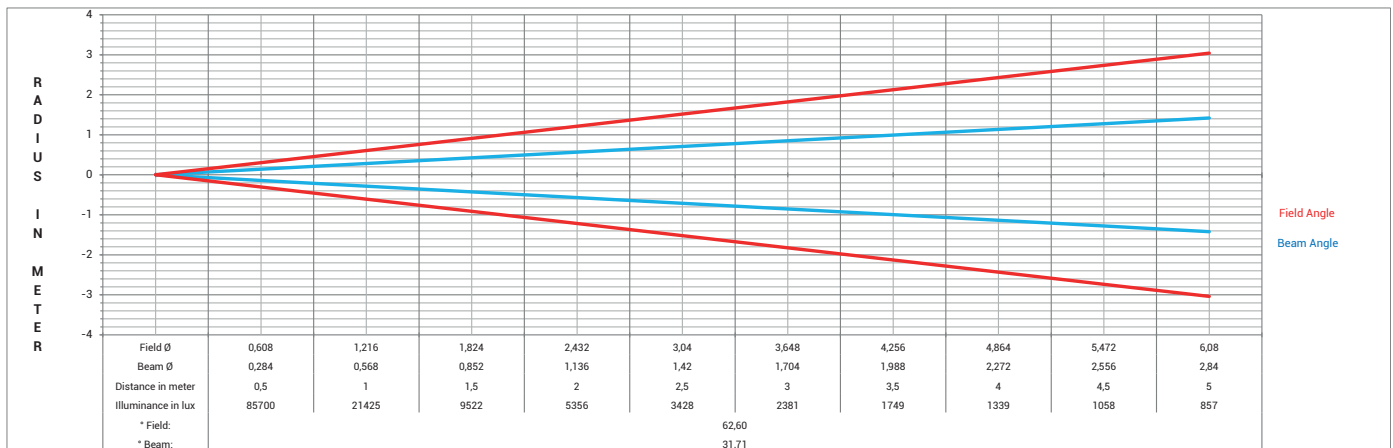


Photometric Data - 60° Filter

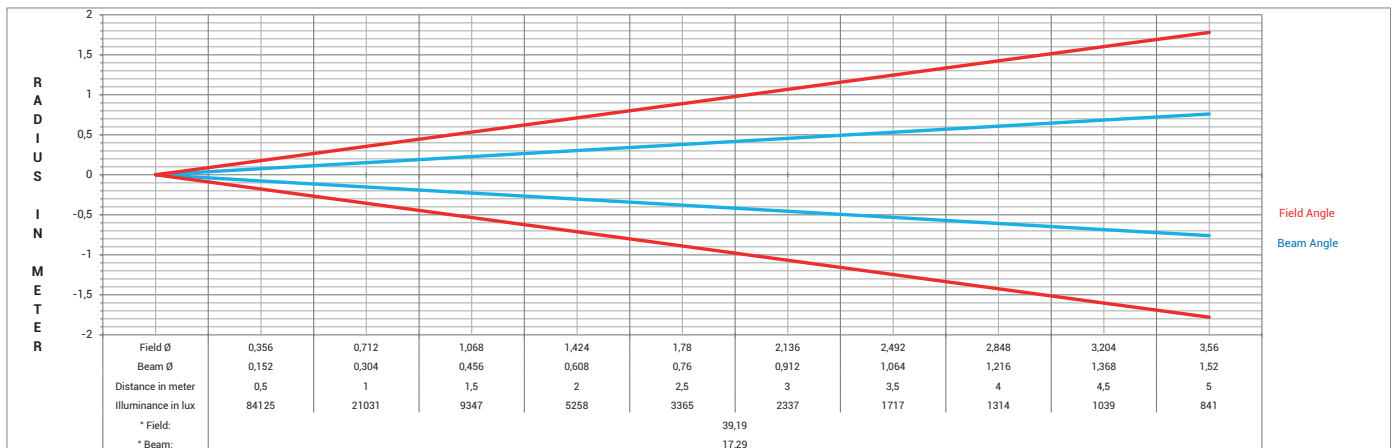


Photometric Data - 60°x10° Filter

Horizontal illumination

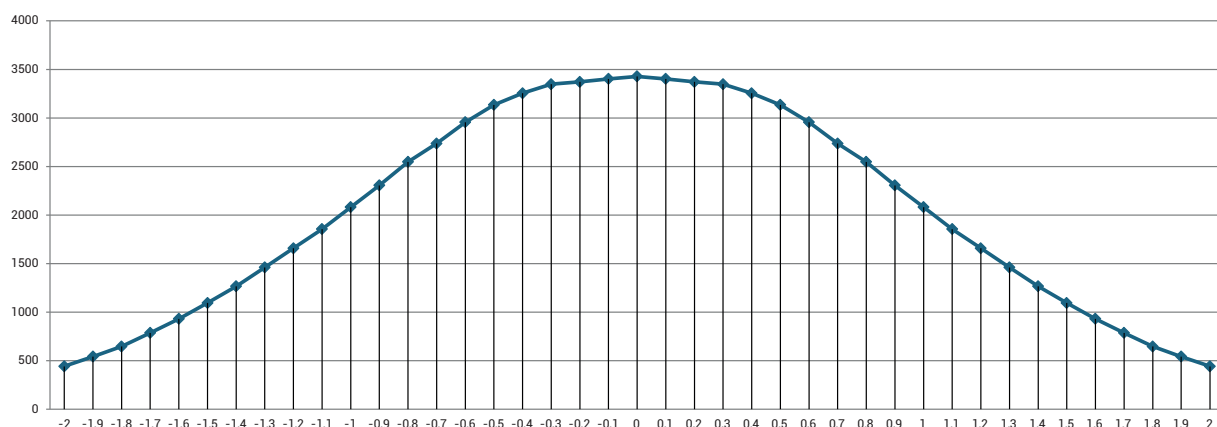


Vertical illumination

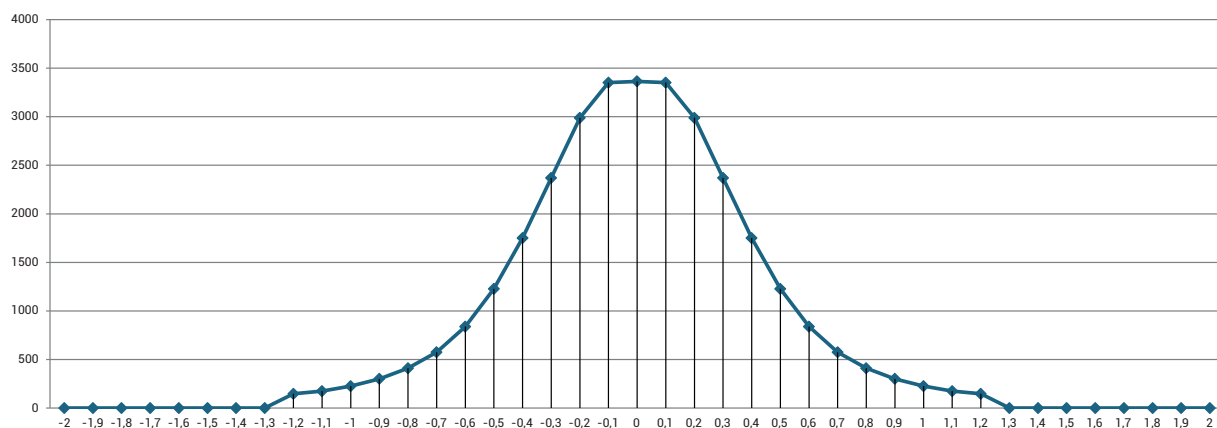


Photometric Data - 60°x10° Filter

Horizontal distribution



Vertical distribution



RGB + Lime Spectrum Test Report

Native 12° @ 5m

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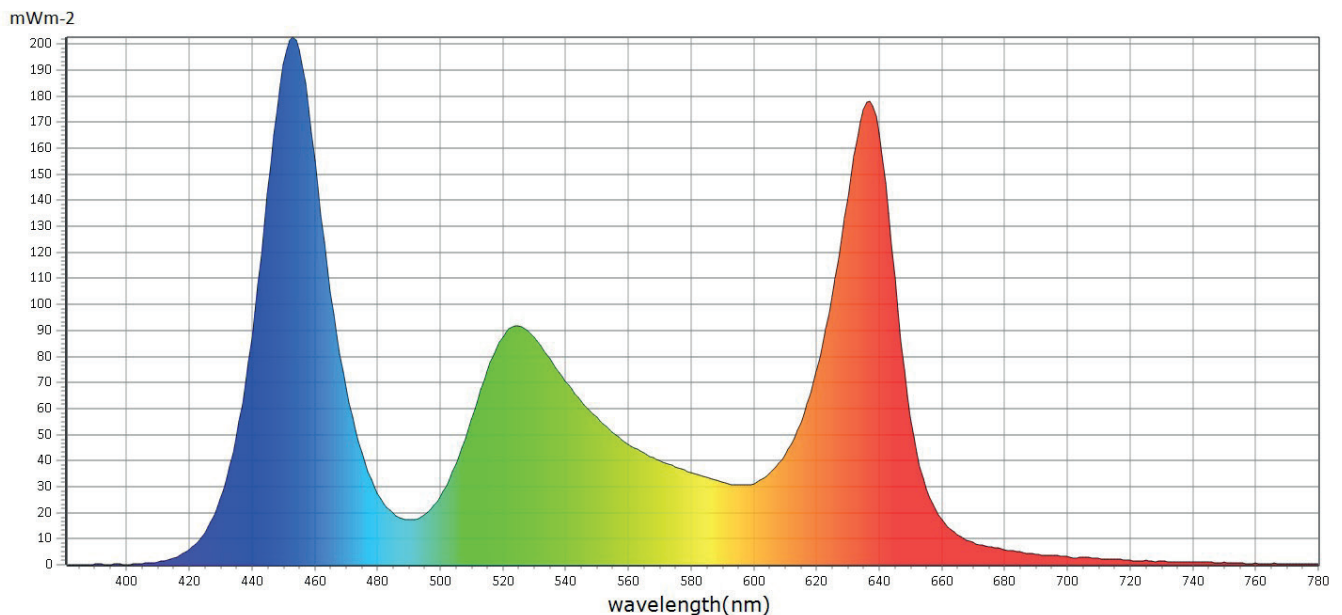
Information

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

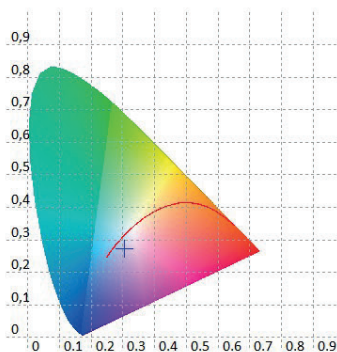
BASIC

CRI	: 56,1
x	: 0,3048
y	: 0,2731
CCT	: 8076
LUX	: 4184

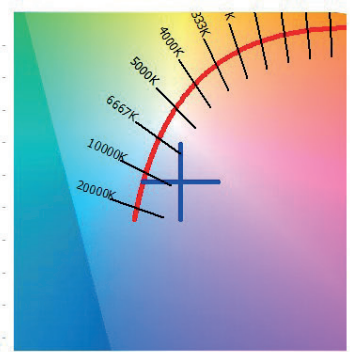
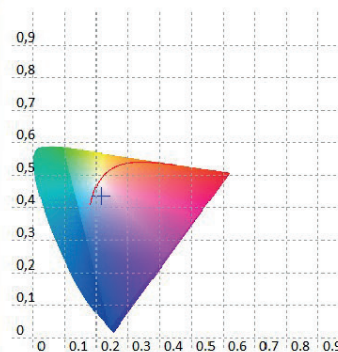
Spectrum



CIE1931



CIE1976



RGB + Lime Spectrum Test Report

Native 12° @ 5m

UPRtek
United Power Research Technology Corporation

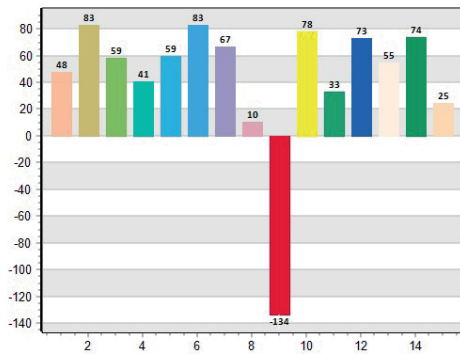
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Model NO. : MK350S PREMIUM Light Source :
Memo :
FULL

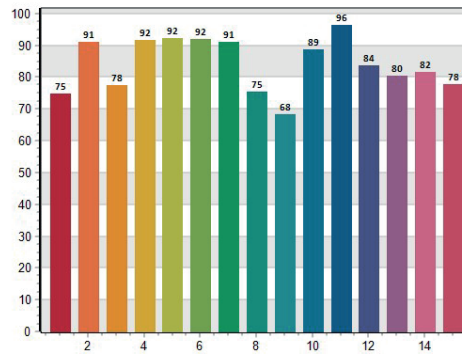
BASIC

CRI : 56,1
X : 0,3048
Y : 0,2731
CCT : 8076
LUX : 4184

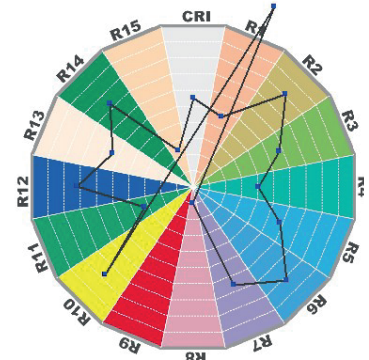
CRI: 56,14



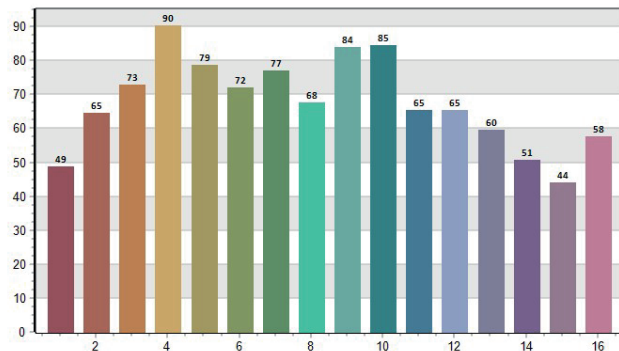
CQS: 82,24



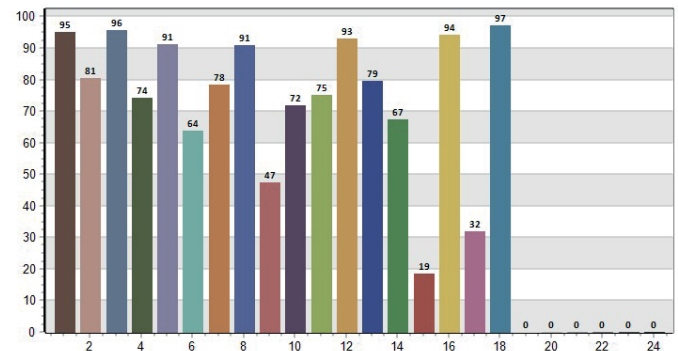
CRI-2



TM30: 73,02



TLCI: 49,97



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
47,7	82,7	58,5	40,8	59,5	82,9	66,8	10,3	-133,6	78,1	32,8	73,2	55,0	73,8	24,5

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
48,9	64,5	72,9	90,3	78,7	71,9	77,1	67,7	83,8	84,5	65,3	65,4	59,6	50,7	44,1	57,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,8	91,1	77,5	91,6	92,3	92,1	91,1	75,4	68,2	88,6	96,4	83,7	80,4	81,7	77,8

3200 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

UPRtek
United Power Research Technology Corporation

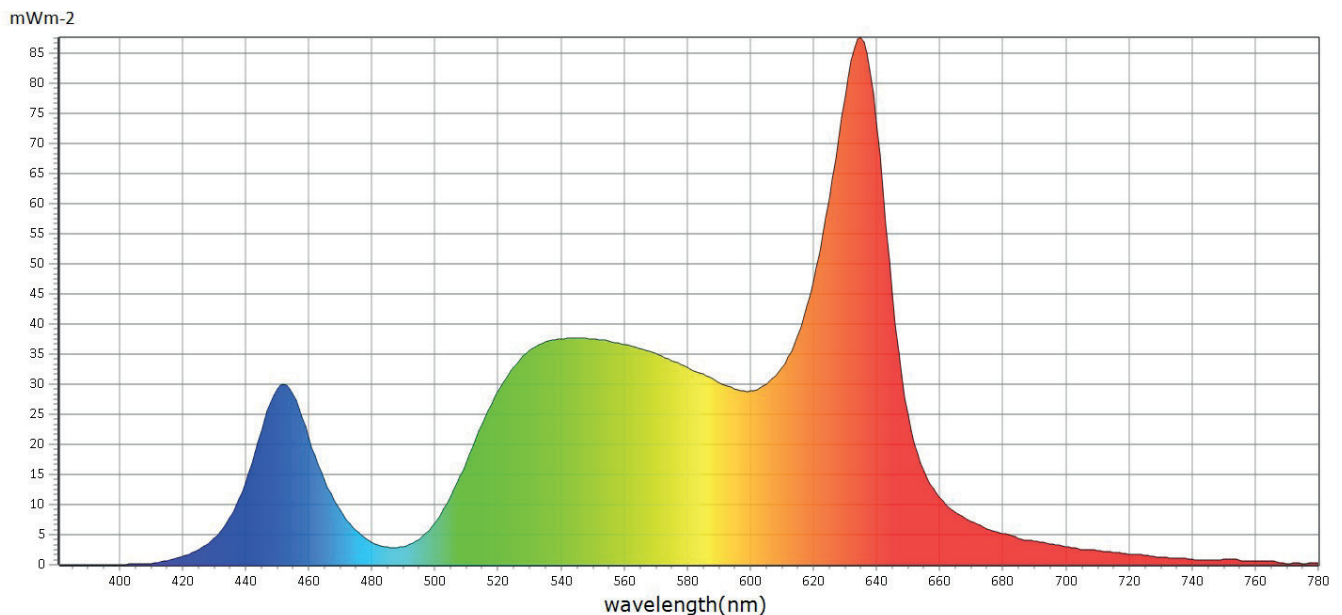
Information

User :	Measure Time :19:16:49
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
3200	

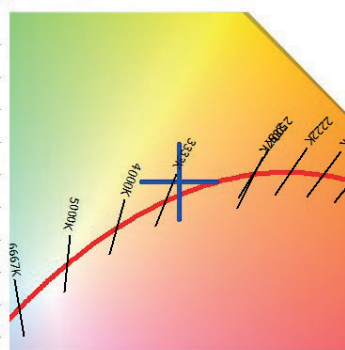
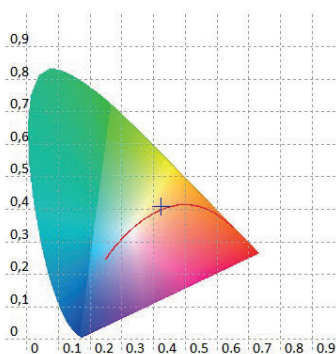
BASIC

CRI	: 86,9
x	: 0,4243
y	: 0,4078
CCT	: 3253
LUX	: 2409

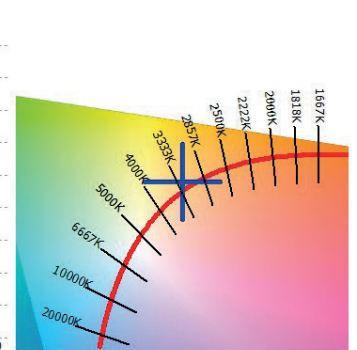
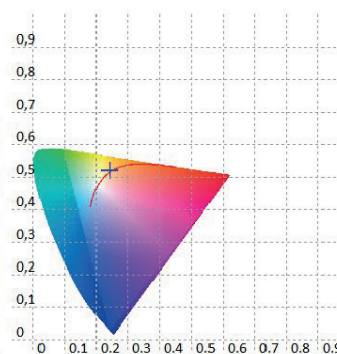
Spectrum



CIE1931



CIE1976



3200 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

UPRtek
United Power Research Technology Corporation

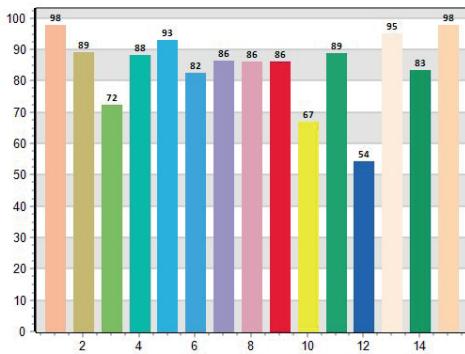
Information

User : Measure Time :19:16:49
Model NO. : MK350S PREMIUM Light Source :
Memo :
3200

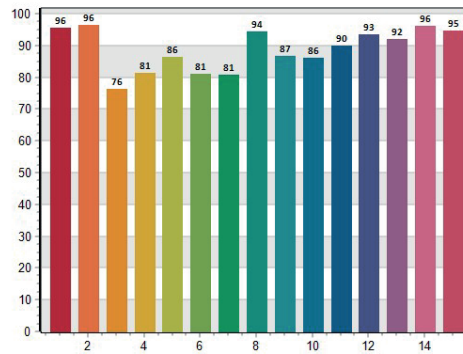
BASIC

CRI : 86,9
X : 0,4243
Y : 0,4078
CCT : 3253
LUX : 2409

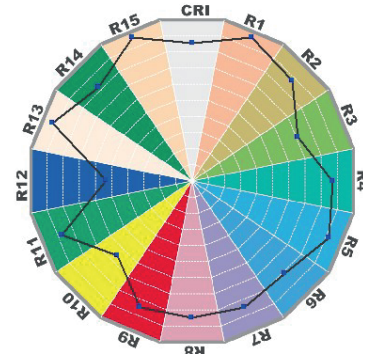
CRI: 86,88



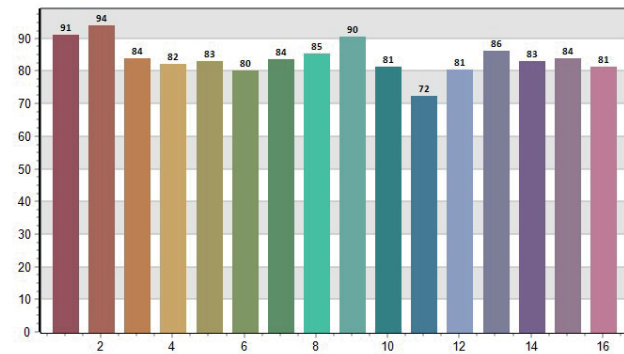
CQS: 86,91



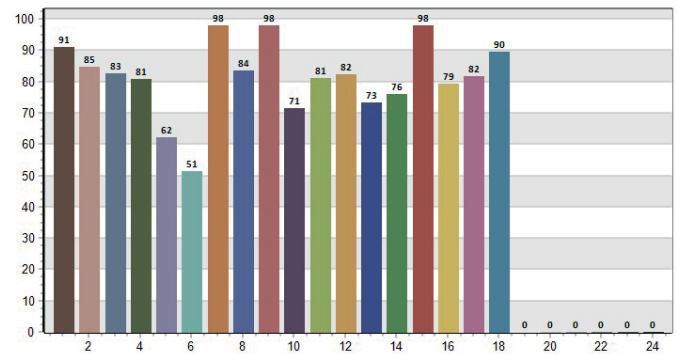
CRI-2



TM30: 85,78



TLCI: 76,19



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	89,2	72,2	88,2	93,0	82,4	86,3	86,0	86,1	66,8	88,8	54,3	95,0	83,3	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
91,0	94,0	84,0	82,1	83,0	80,0	83,6	85,3	90,4	81,3	72,4	80,5	86,1	83,1	83,8	81,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,5	96,4	76,4	81,4	86,5	81,1	80,7	94,5	86,6	86,0	90,0	93,4	91,9	96,1	94,8

5600 K (calibrated macro) Spectrum Test Report

Slot #7

Native 12° @ 5m

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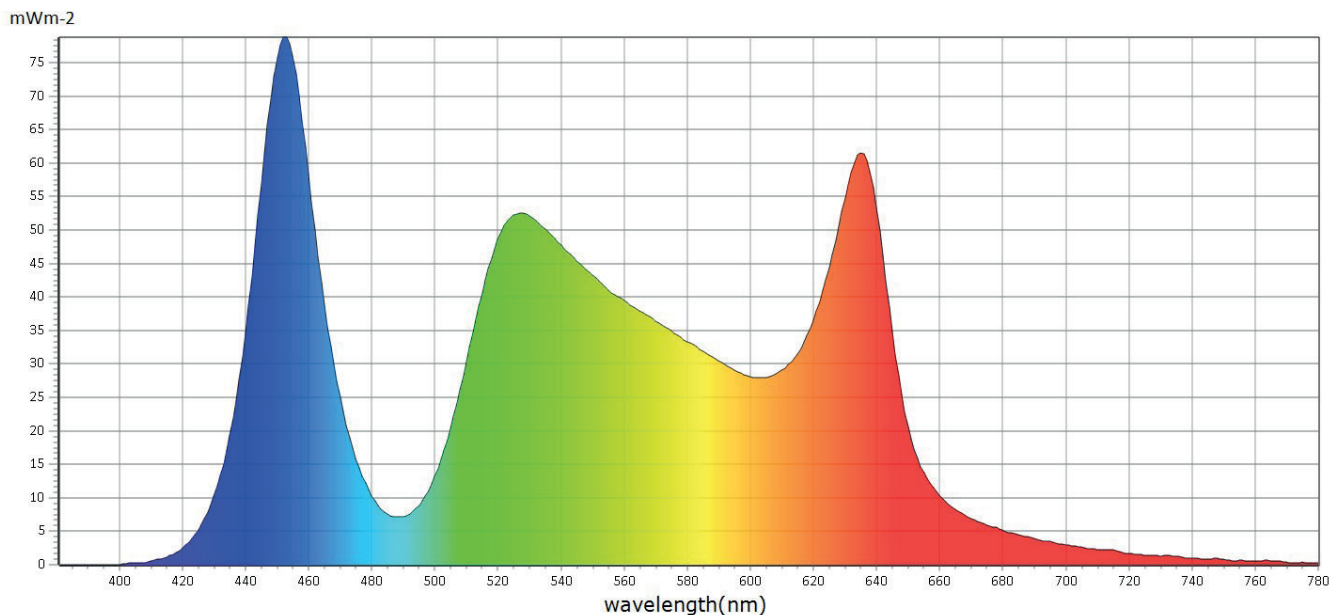
Information

User :	Measure Time :19:16:57
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
5600	

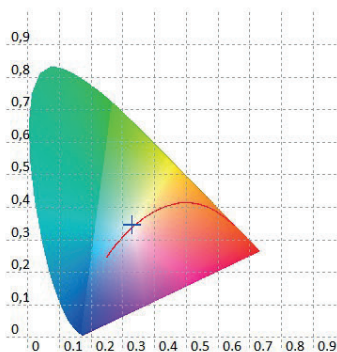
BASIC

CRI	: 85,7
x	: 0,3300
y	: 0,3470
CCT	: 5606
LUX	: 2727

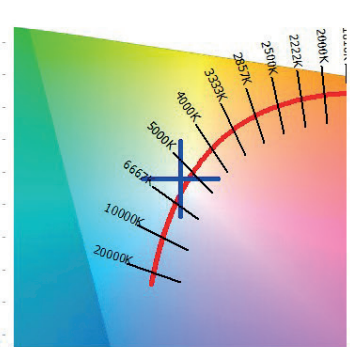
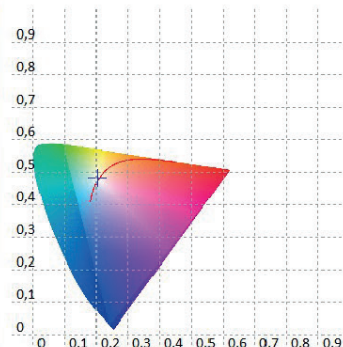
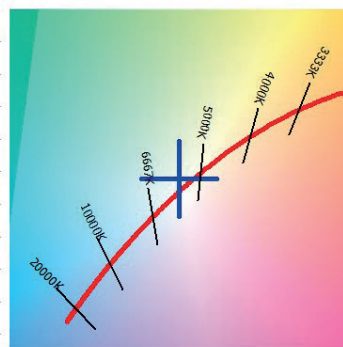
Spectrum



CIE1931



CIE1976



5600 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

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United Power Research Technology Corporation

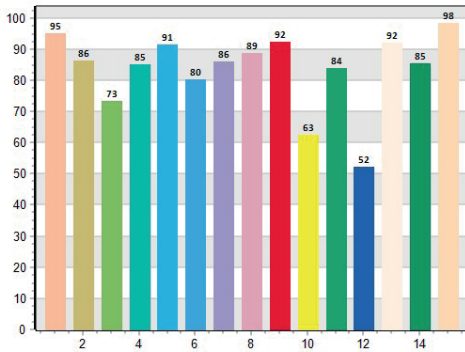
Information

User : Measure Time :19:16:57
Model NO. : MK350S PREMIUM Light Source :
Memo :
5600

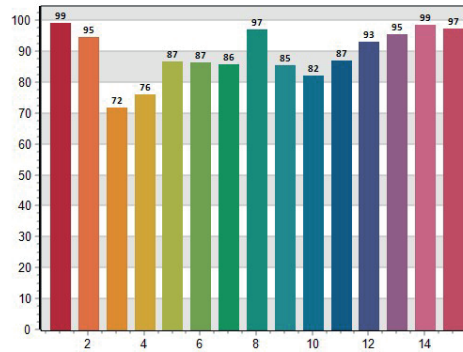
BASIC

CRI : 85,7
X : 0,3300
Y : 0,3470
CCT : 5606
LUX : 2727

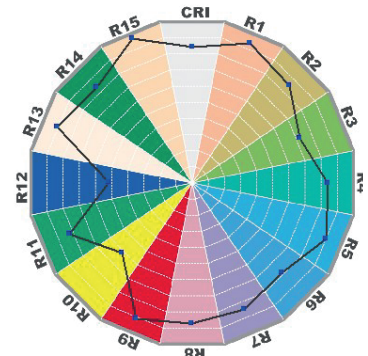
CRI: 85,74



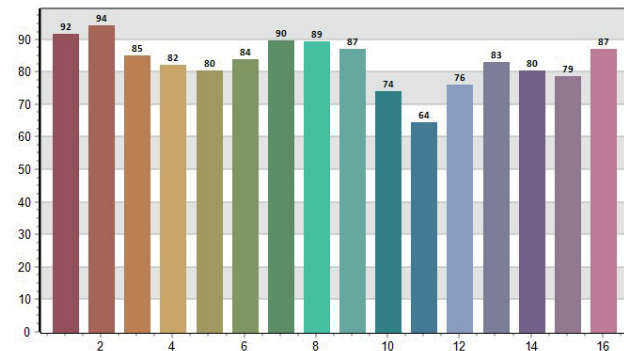
CQS: 86,47



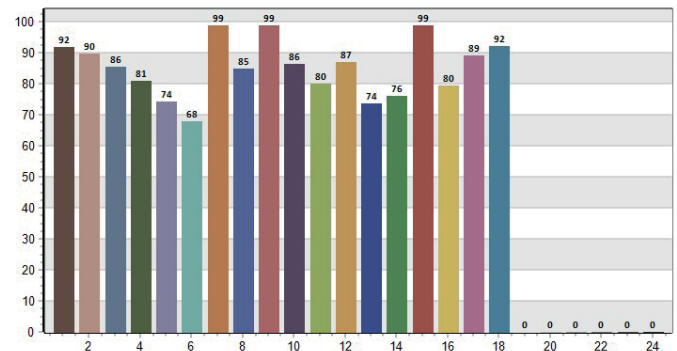
CRI-2



TM30: 84,56



TLCI: 82,52



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
94,9	86,4	73,2	85,2	91,4	80,2	86,1	88,6	92,5	62,6	83,8	52,1	92,1	85,3	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
91,5	94,2	85,0	82,0	80,3	83,8	89,6	89,2	87,1	74,1	64,4	76,1	82,9	80,4	78,8	86,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,1	94,7	71,9	76,0	86,7	86,5	85,8	96,9	85,3	82,2	86,9	93,1	95,4	98,6	97,2

6500 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

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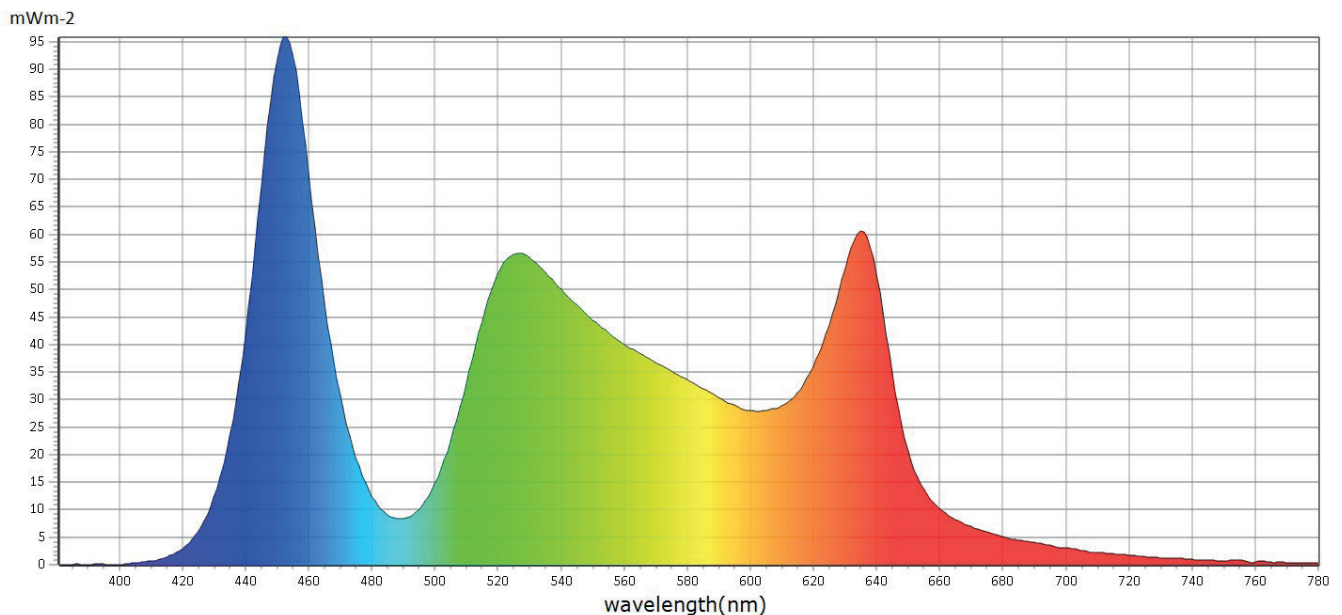
Information

User :	Measure Time :19:16:58
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
6500	

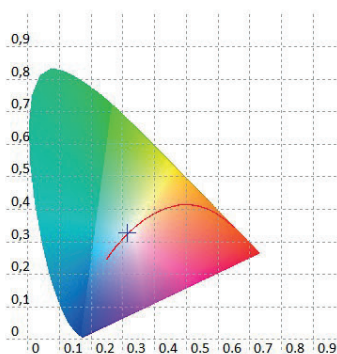
BASIC

CRI	: 86,0
x	: 0,3138
y	: 0,3288
CCT	: 6444
LUX	: 2825

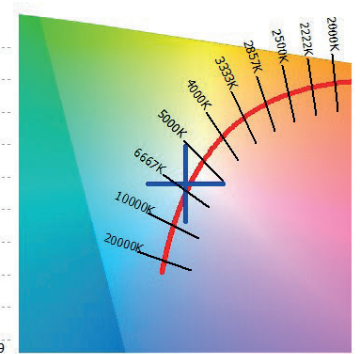
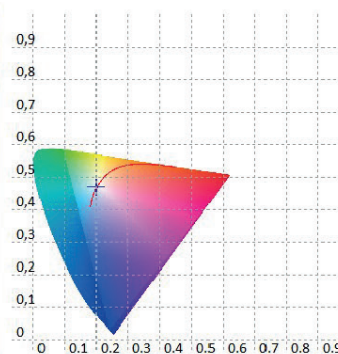
Spectrum



CIE1931



CIE1976



6500 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

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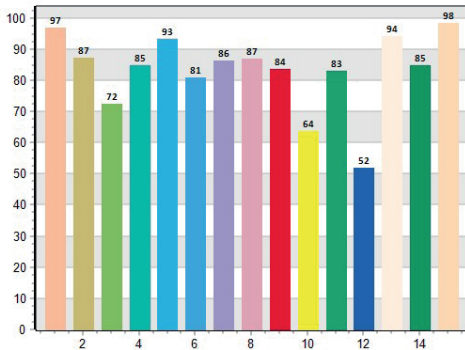
Information

User : Measure Time :19:16:58
Model NO. : MK350S PREMIUM Light Source :
Memo :
6500

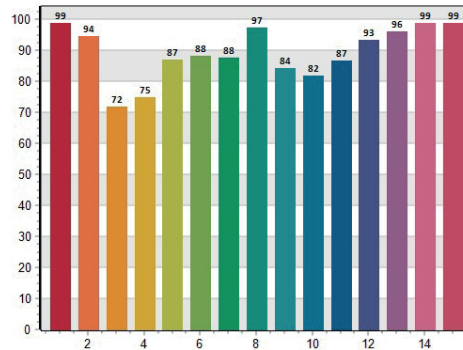
BASIC

CRI : 86,0
X : 0,3138
Y : 0,3288
CCT : 6444
LUX : 2825

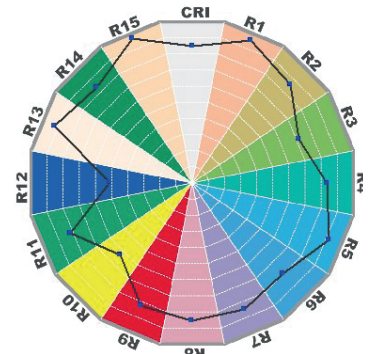
CRI: 86,04



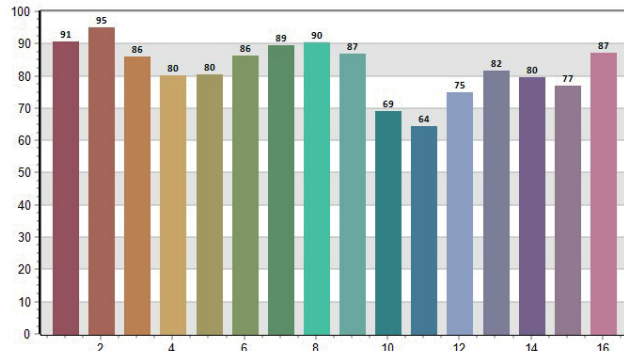
CQS: 86,44



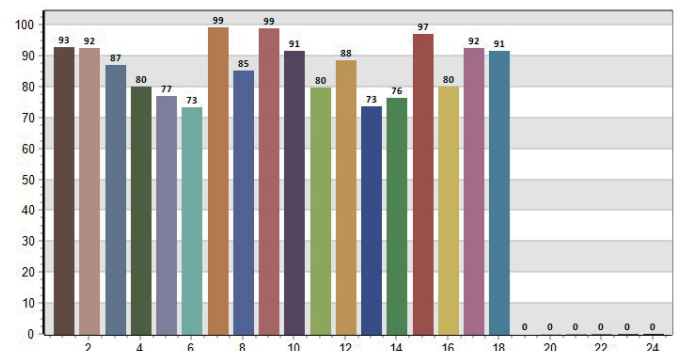
CRI-2



TM30: 84,31



TLCI: 83,77



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
96,8	87,2	72,4	84,9	93,1	80,9	86,2	86,8	83,6	63,8	82,9	51,9	94,0	84,9	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
90,8	95,0	85,9	80,1	80,4	86,4	89,4	90,2	86,7	69,0	64,3	74,9	81,5	79,5	77,0	87,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,8	94,4	71,8	74,9	86,9	88,3	87,6	97,4	84,2	81,7	86,6	93,4	95,9	98,6	98,7

8000 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

UPRtek
United Power Research Technology Corporation

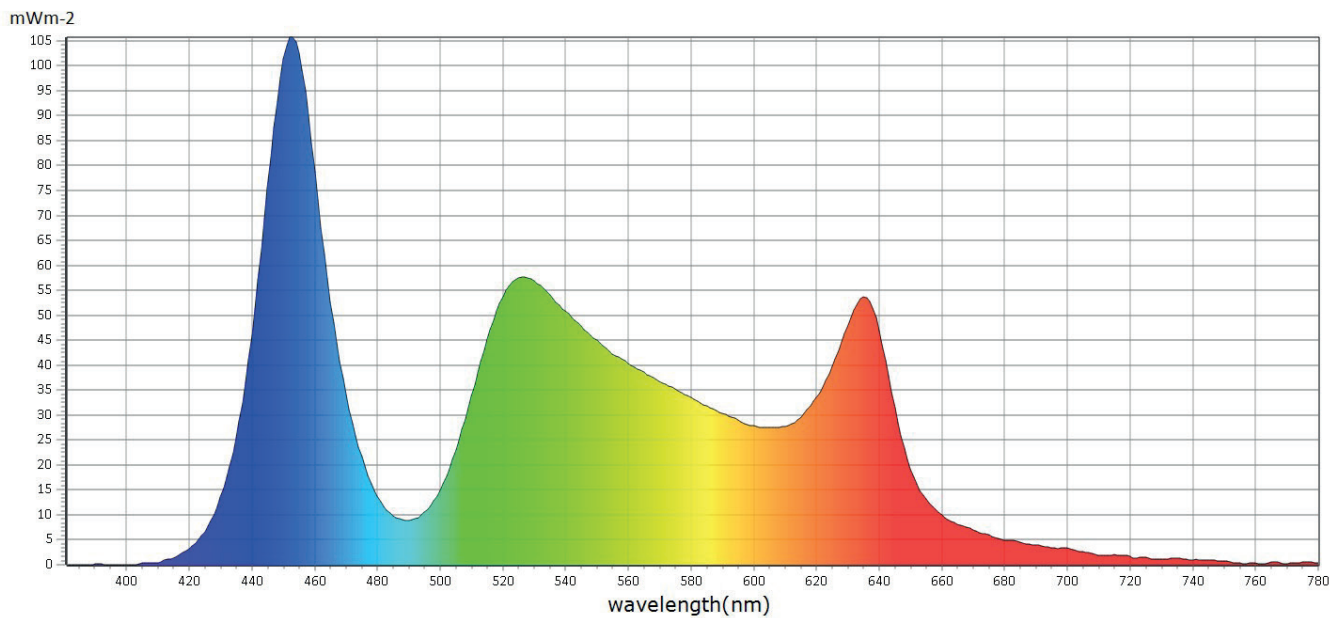
Information

User :	Measure Time :19:17:00
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
8000	

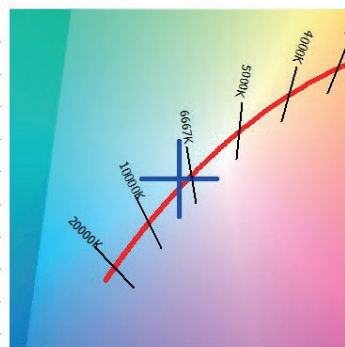
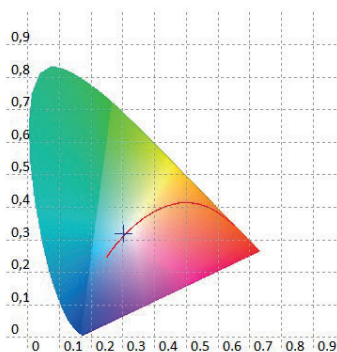
BASIC

CRI	: 85,6
x	: 0,3021
y	: 0,3182
CCT	: 7246
LUX	: 2826

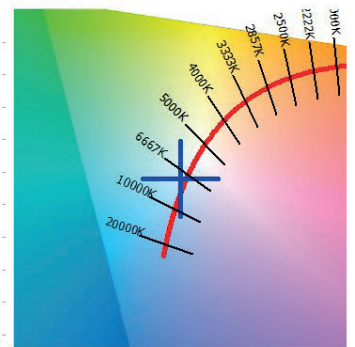
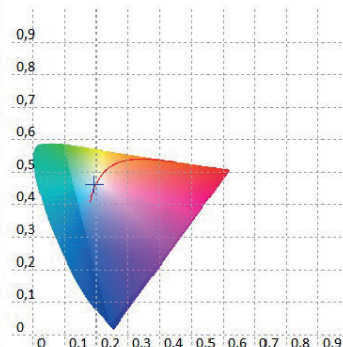
Spectrum



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8000 K (calibrated macro) Spectrum Test Report

Native 12° @ 5m

UPRtek
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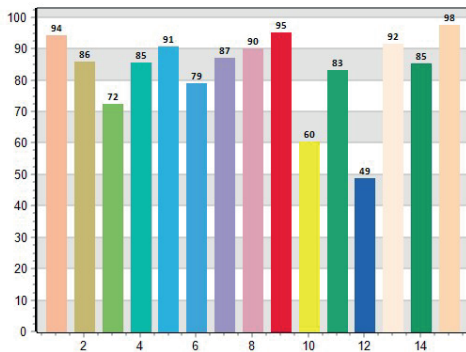
Information

User :	Measure Time :19:17:00
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
8000	

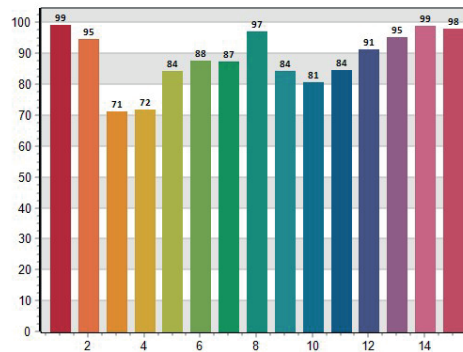
BASIC

CRI	: 85,6
X	: 0,3021
Y	: 0,3182
CCT	: 7246
LUX	: 2826

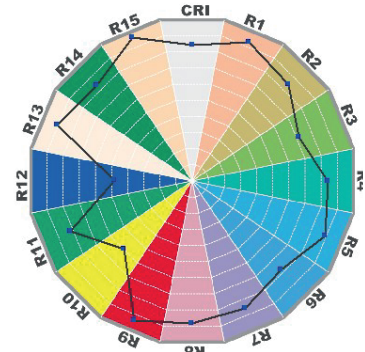
CRI: 85,59



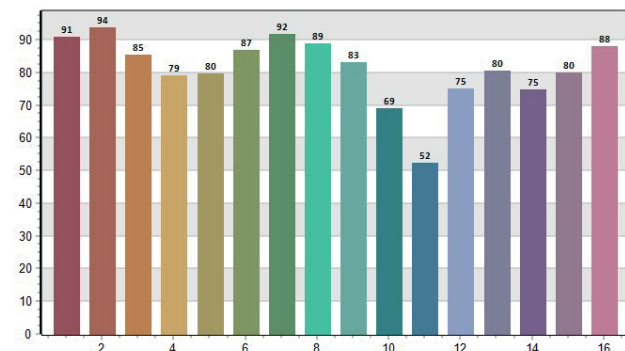
CQS: 85,45



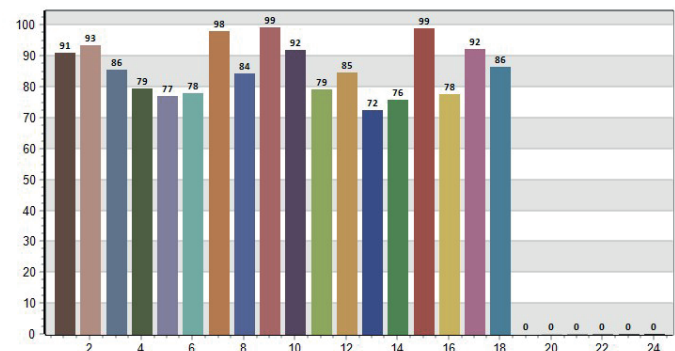
CRI-2



TM30: 83,51



TLCI: 83,28



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	85,8	72,4	85,5	90,8	79,1	87,1	89,9	95,0	60,5	83,0	48,8	91,6	85,3	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
91,0	93,8	85,4	79,1	79,7	87,0	91,9	88,9	83,1	69,0	52,3	75,0	80,5	74,7	79,9	88,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,2	94,5	71,2	71,9	84,4	87,8	87,3	97,0	84,4	80,6	84,5	91,3	95,4	99,0	97,9

Red @100% Spectrum Test Report

Native 12° @ 5m

UPRtek
United Power Research Technology Corporation

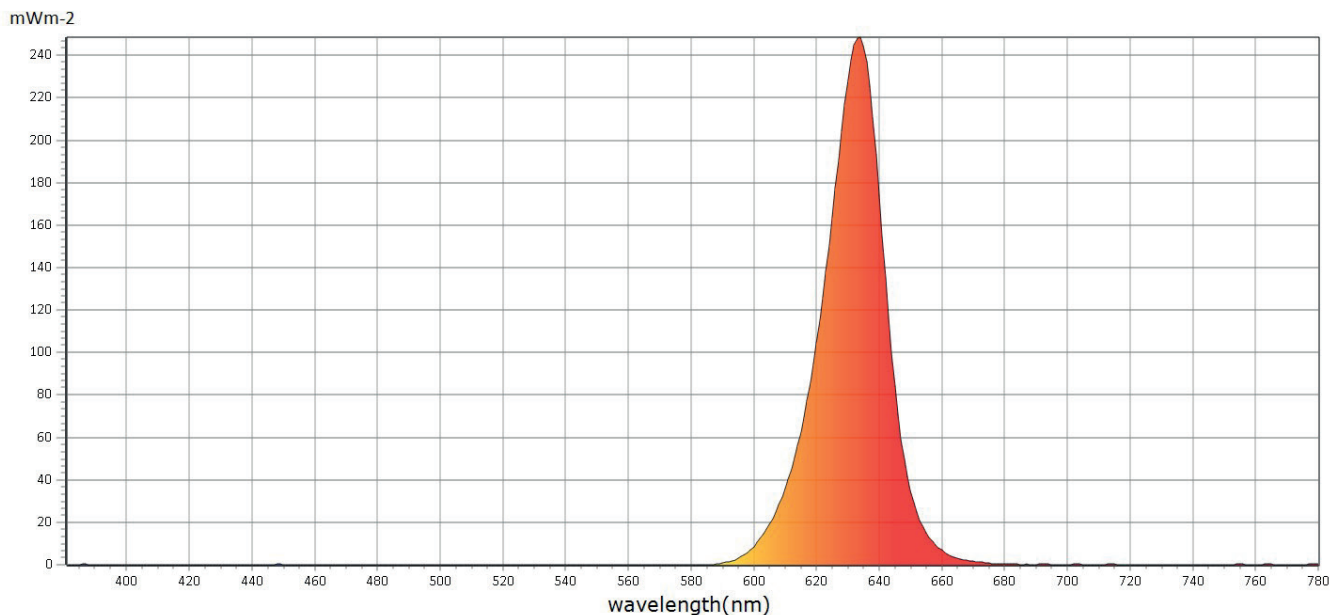
Information

User :	Measure Time :19:09:53
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
RED	

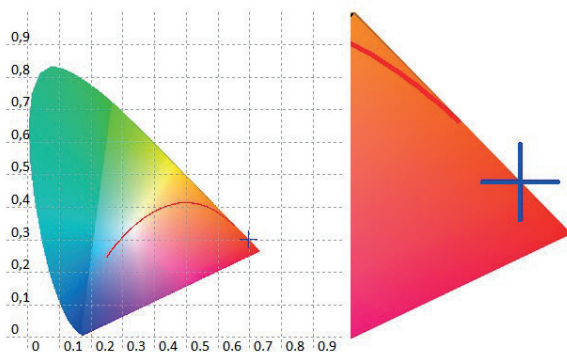
BASIC

CRI	: 0,0
x	: 0,6973
y	: 0,3016
CCT	: 0
LUX	: 1132

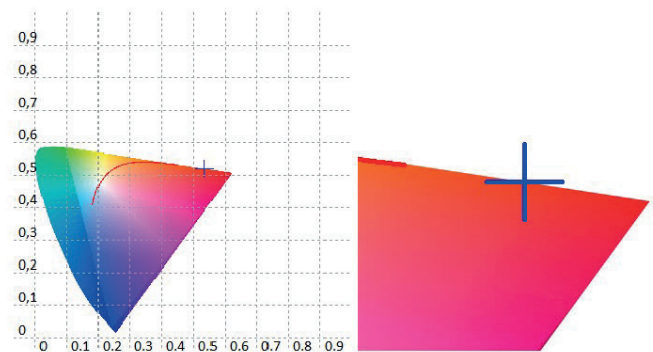
Spectrum



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Green @100% Spectrum Test Report

Native 12° @ 5m

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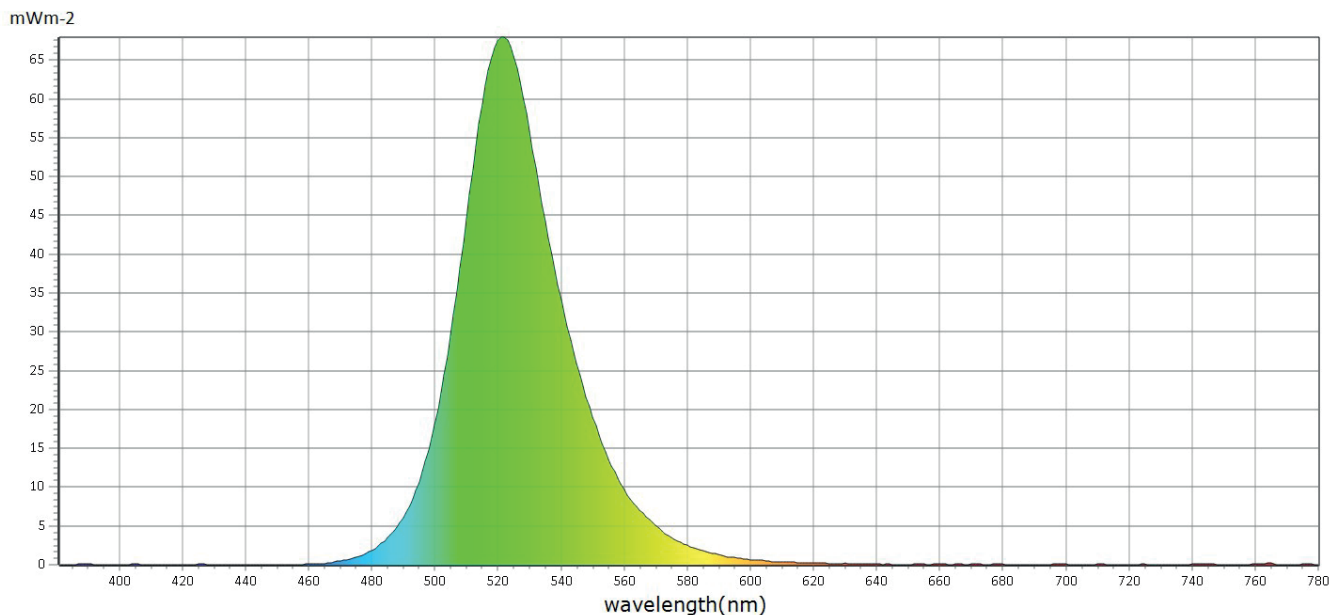
Information

User :	Measure Time :19:09:55
Model NO. : MK350S PREMIUM	Light Source :
Memo : GREEN	

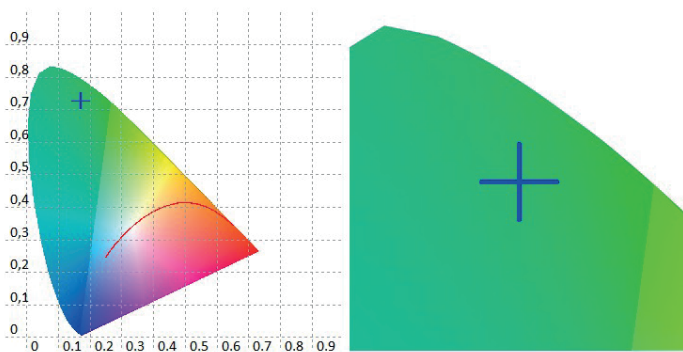
BASIC

CRI	: 0,0
x	: 0,1704
y	: 0,7260
CCT	: 7807
LUX	: 1314

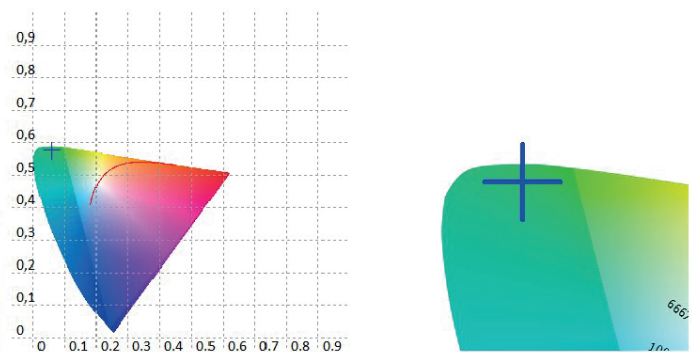
Spectrum



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Blue @100% Spectrum Test Report

Native 12° @ 5m

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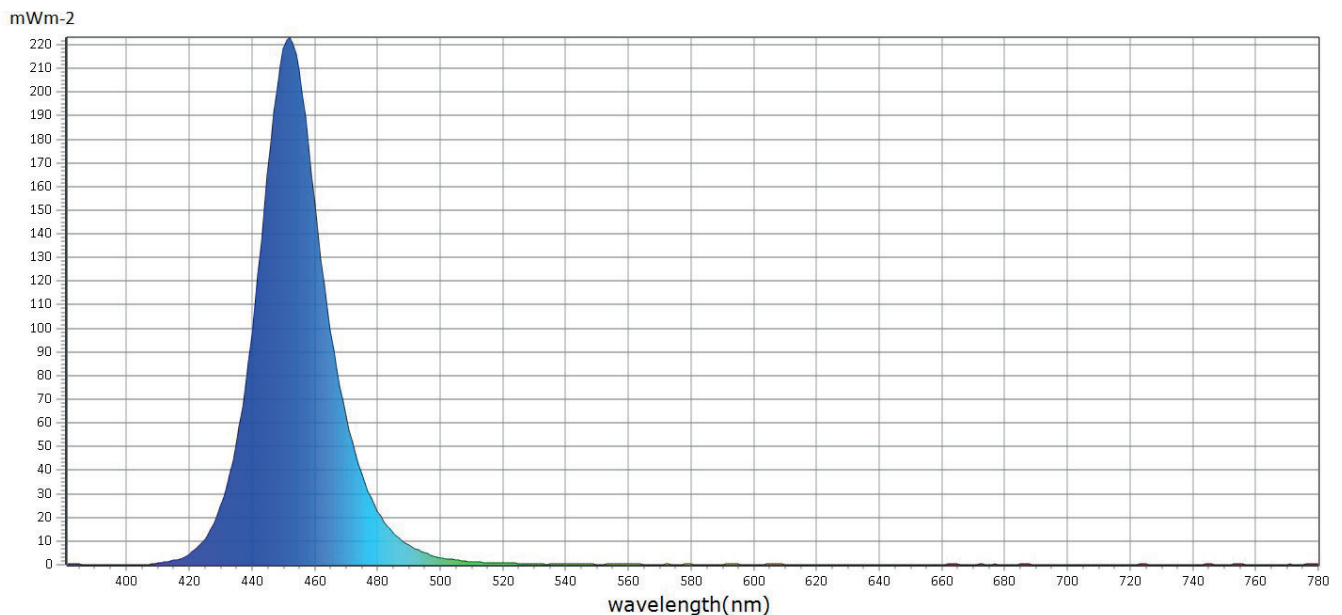
Information

User :	Measure Time :19:09:56
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
BLUE	

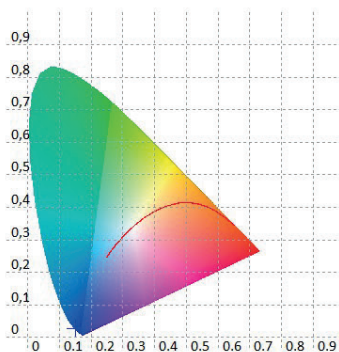
BASIC

CRI	: 0,0
x	: 0,1519
y	: 0,0284
CCT	: 0
LUX	: 226,5

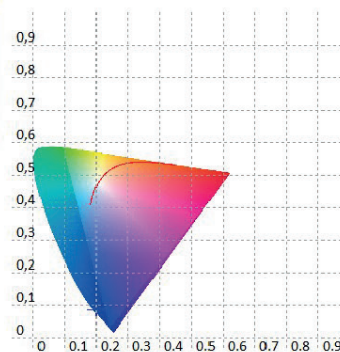
Spectrum



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Lime @100% Spectrum Test Report

Native 12° @ 5m

UPRtek
United Power Research Technology Corporation

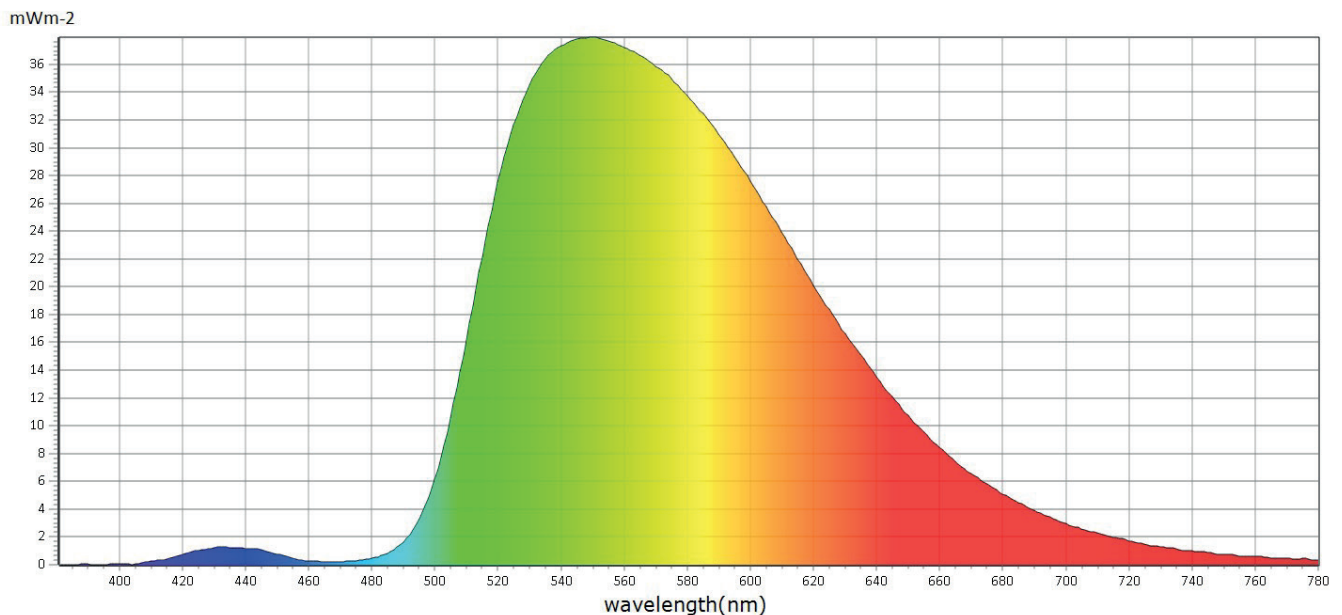
Information

User :	Measure Time :19:09:58
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
LIME	

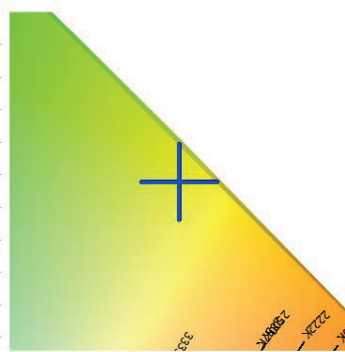
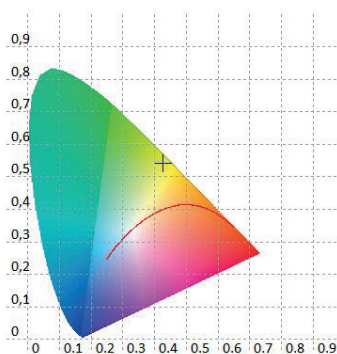
BASIC

CRI	: 46,8
x	: 0,4267
y	: 0,5423
CCT	: 3980
LUX	: 2075

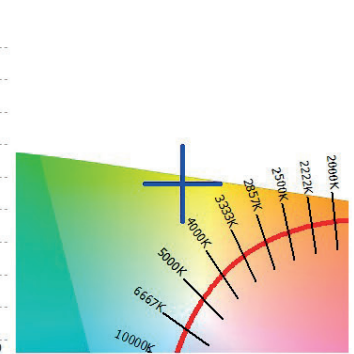
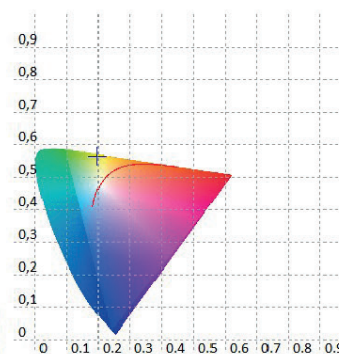
Spectrum



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