



Designed for professional environments demanding power, precision, and operational comfort, **HERITAGE Fresnel 250** delivers a premium light signature, perfectly suited to studios, stages, and high-end installations. It combines photometric performance, light quality, and operational flexibility to meet the expectations of lighting designers and operators. At the heart of the fixture, **Techno Core™** technology: the **Spectral Core™** module, combined with **PickR Core™** technology, delivers rich, balanced, and perfectly controlled color rendering. It enables both the creation of intense, deep colors and the production of precise, natural whites across the entire range, thanks to a calibrated white channel that accurately positions the light along the black body curve. Whites are stable, uniform, and fully reproducible from one fixture to another.

For advanced control, **HERITAGE Fresnel 250** can also be operated in X,Y mode within the CIE 1931 color space. Its manual zoom range from 9° to 51° provides great operational flexibility, allowing instant beam adjustment - from tight framing to wide coverage - while maintaining remarkable light uniformity. This versatility makes it equally effective for creative applications and everyday operation. With a luminous output of up to 10.239 lumens and a CRI > 98, **HERITAGE Fresnel 250** establishes itself as a reference solution for productions where performance must be paired with impeccable light quality and genuine ease of use.



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[Find the technical datasheet here :](#)



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[Manual](#)



[DMX Chart](#)



[All Downloads](#)



TECHNO
CORE

SPECTRAL CORE™
PikR CORE™
FILTERS CORE™
POWER CORE™

The Technology

The colorimetric reference for stage lighting **Spectral Core™** is a proprietary LED technology developed by STARWAY for theatres, opera houses, and permanent installations requiring perfect color consistency and absolute fidelity in stage rendering.

Based on a unique RGB, Amber, Lime, and Cyan LED engine, shared across the entire range, Spectral Core™ ensures a consistent color signature throughout all fixtures in the HERITAGE series.

Precision architecture

The **Spectral Core™** module is built around a three-part design:

- **Spectral Core™** Multispectral LED engine
- **PikR Core™** Calibration and processing chip
- **250W (or 500W) Power Core™** power supply.
(depending of model)

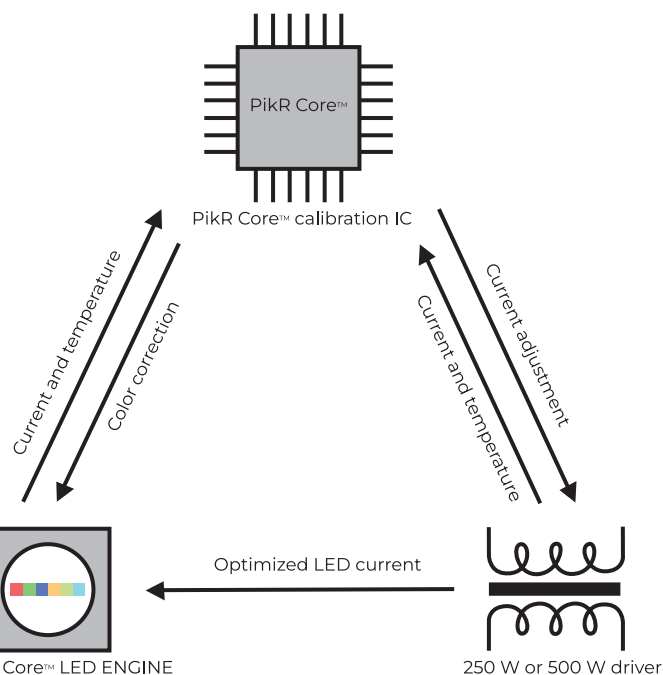
The LED engine and the **PikR Core™** calibration and processing chip form the technological heart of **Spectral Core™**, ensuring stability and repeatability.

Intelligent control

Via the internal **Spectral Core™ / PikR Core™** internal software, the system operates with a bidirectional data flow, continuously optimizing color quality and luminous efficiency.

Reference whites and colors

- TM-30 > 94
- CRI > 98
- Extended color temperature range from 1,800 K to 10,000 K
- Accurate black-body reproduction with Duv < 0.002
- CIE 1931 color space X,Y control directly from the console
- **Filters Core™** database including 80+ iconic LEEfilter™ gels.



Sustainable performance

Power Core™'s real-time optimization allows 100% of the LED engine's potential to be utilized while limiting derating to 10%, ensuring consistent output, long-term stability, and extended lifespan.

Source

Engine	Spectral Core™ RGB + Amber + Lime + Cyan
LED Watts	500W
Engine CCT	8900K (Full RGBL)
Engine Life (L70)	> 50000 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)	10329 lm
Fixture Illuminance	Narrow: 6554 lux@5m 9° Medium: 2791 lux@5m 33° Wide: 1060 lux@5m 51°
Fixture CCT Output	1800 - 10000 K
CRI	@6500k: 96.7 @3200k: 98
Tm30	@6500k: 93.78 @3200k: 95.79
TLCI	@6500k: 97.16 @3200k: 97.32
CQS	@6500k: 95.2 @3200k: 97.08

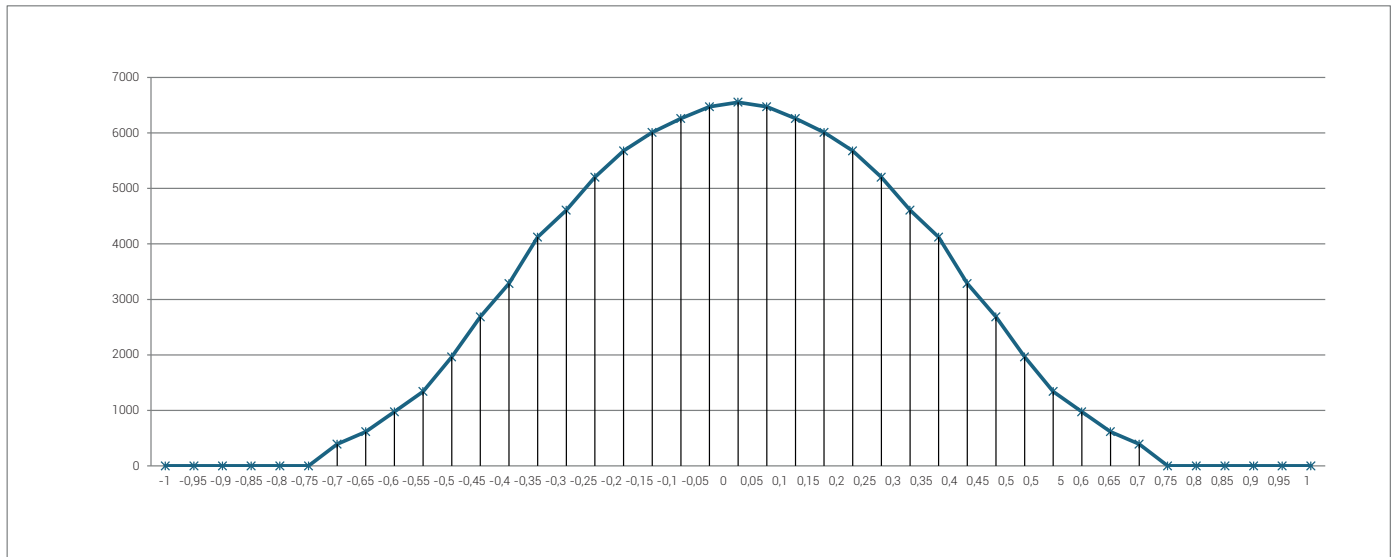
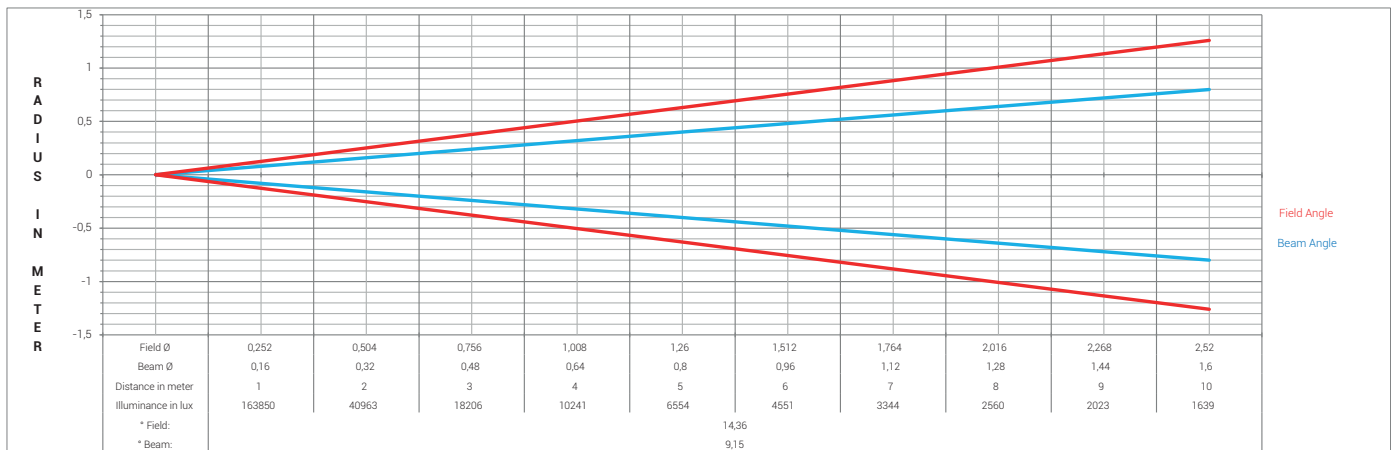
Optical

Lens Diameter	150 mm
Zoom Range (manual)	9.15° - 51.28°
Zoom Ratio	5.6:1

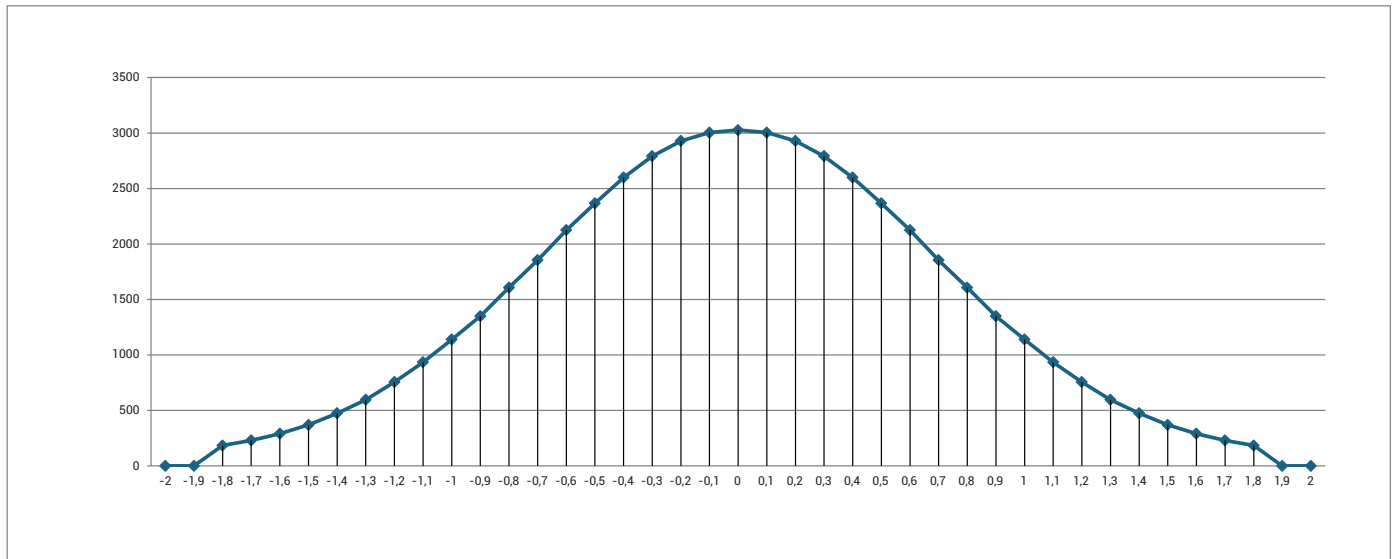
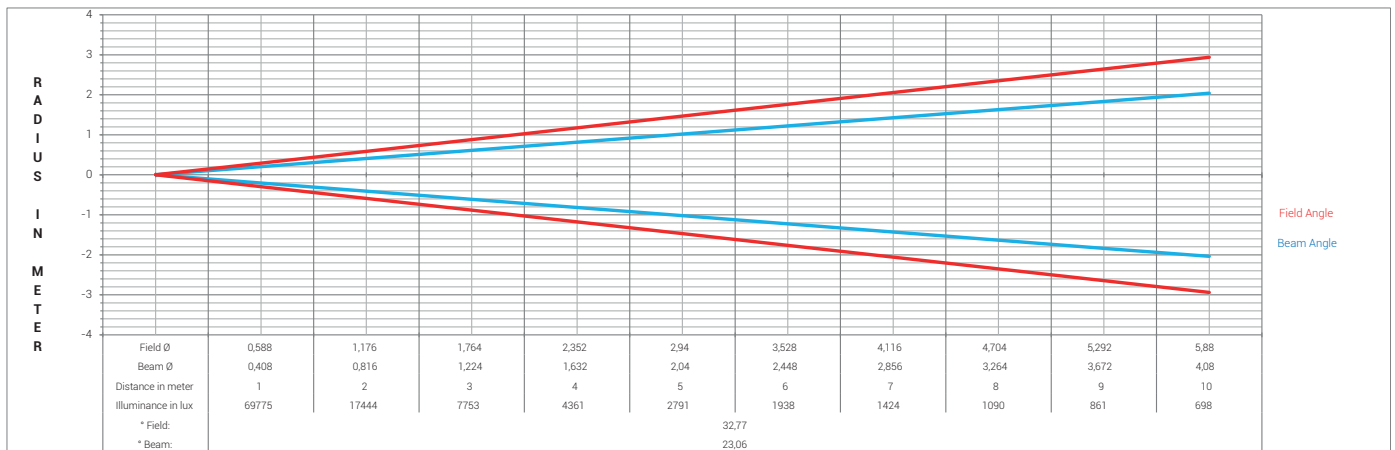
Colour System

Colour System	RGBALC Virtual Macros (83 LeeFilters gels)
Control	8 bits / 16 bits

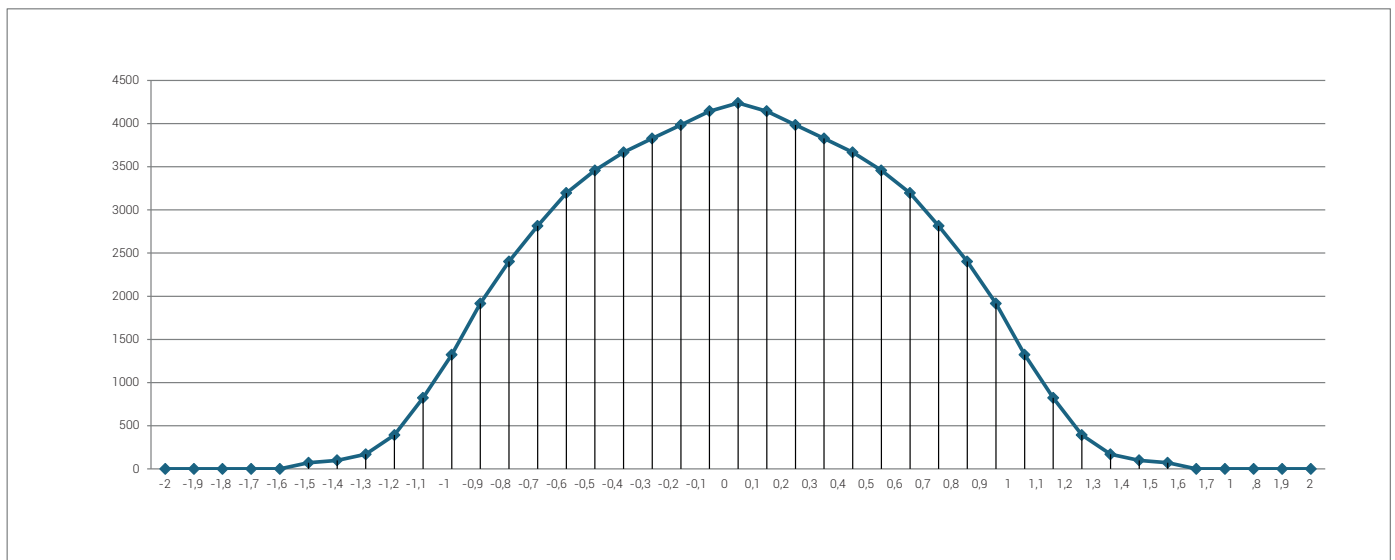
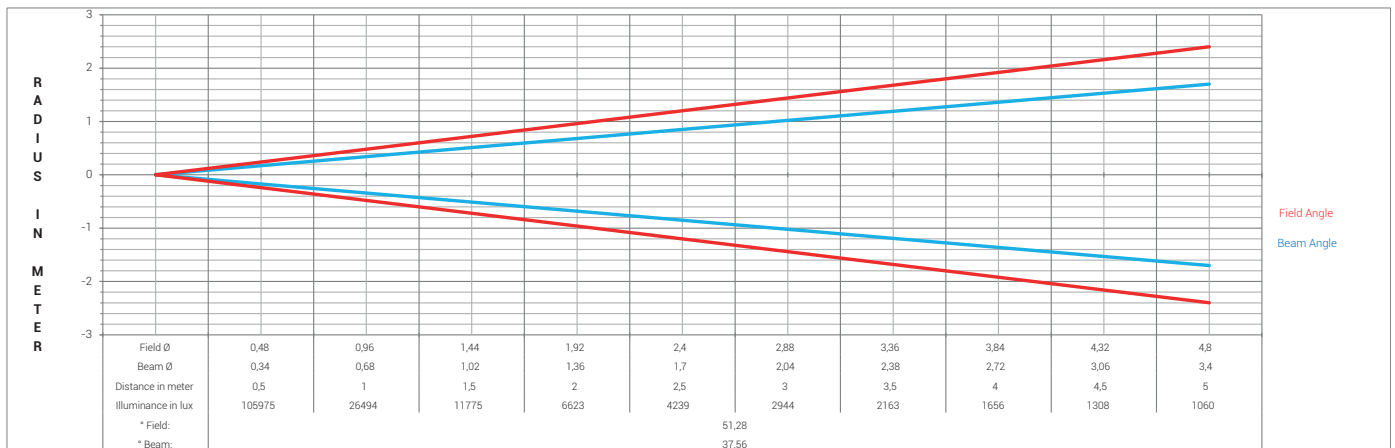
Photometric Data - 9° (Narrow)



Photometric Data - 33° (Medium)



Photometric Data - 51° (Wide)



RGBALC Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

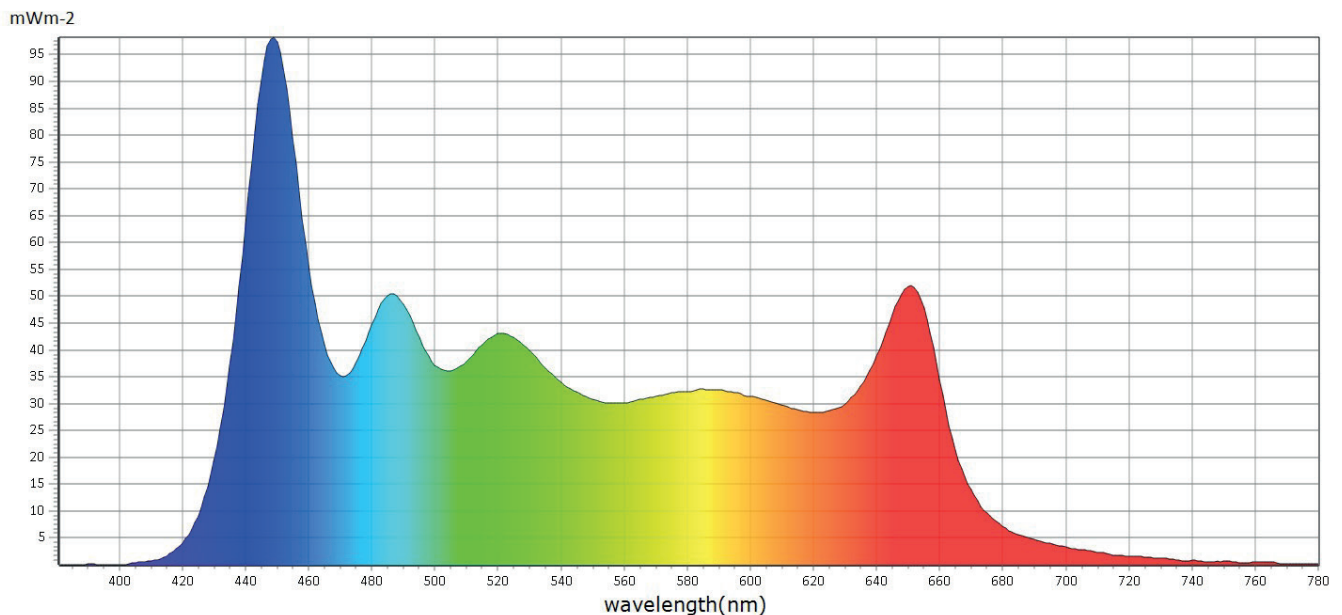
Information

User :	Measure Time :16:25:52
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
FULL	

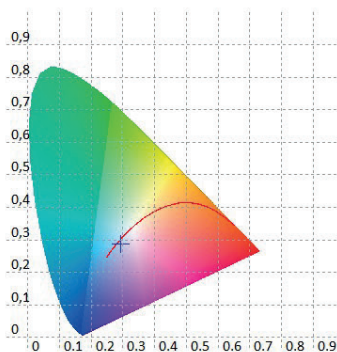
BASIC

CRI	: 87,6
x	: 0,2928
y	: 0,2868
CCT	: 8787
LUX	: 2511

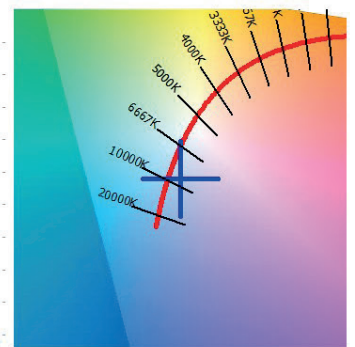
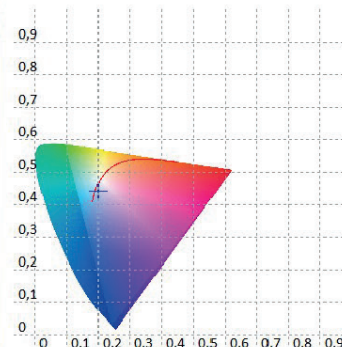
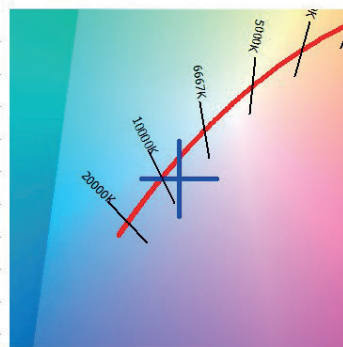
Spectrum



CIE1931



CIE1976



RGBALC Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

Information

User : Measure Time :16:25:52

Model NO. : MK350S PREMIUM

Light Source :

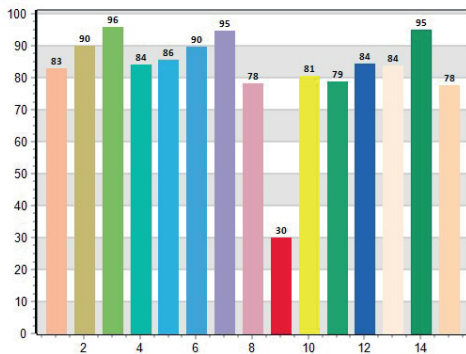
Memo :

FULL

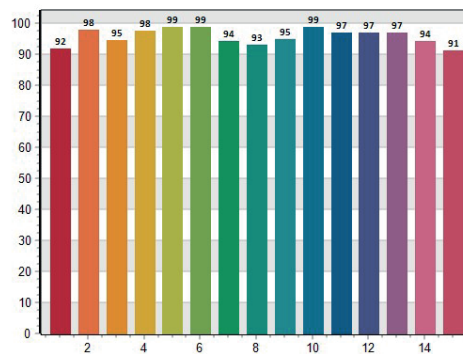
BASIC

CRI : 87,6
 X : 0,2928
 Y : 0,2868
 CCT : 8787
 LUX : 2511

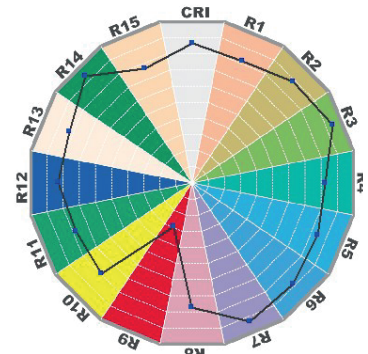
CRI: 87,62



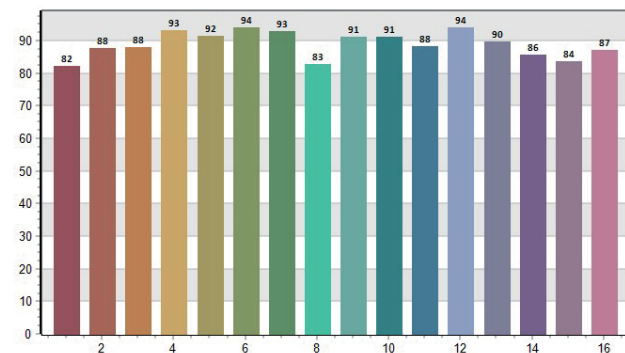
CQS: 95,15



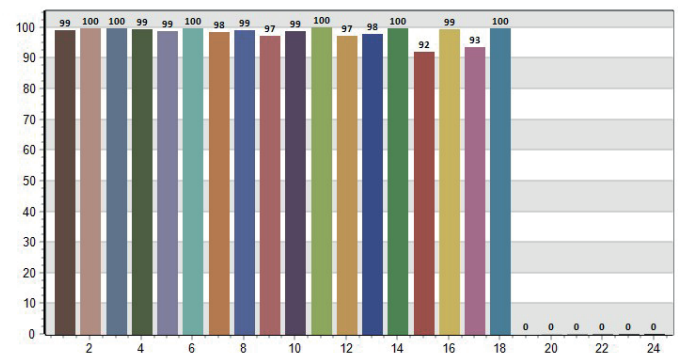
CRI-2



TM30: 90,44



TLCI: 97,46



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
83,0	90,0	95,8	83,9	85,5	89,6	94,7	78,3	30,1	80,6	78,9	84,5	83,7	95,0	77,7

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
82,2	87,8	88,1	93,2	91,5	94,0	92,9	82,7	91,1	91,2	88,3	94,1	89,8	85,8	83,7	87,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,8	98,0	94,5	97,6	98,7	98,8	94,2	93,2	94,9	98,8	96,8	96,9	97,1	94,3	91,4

3200 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

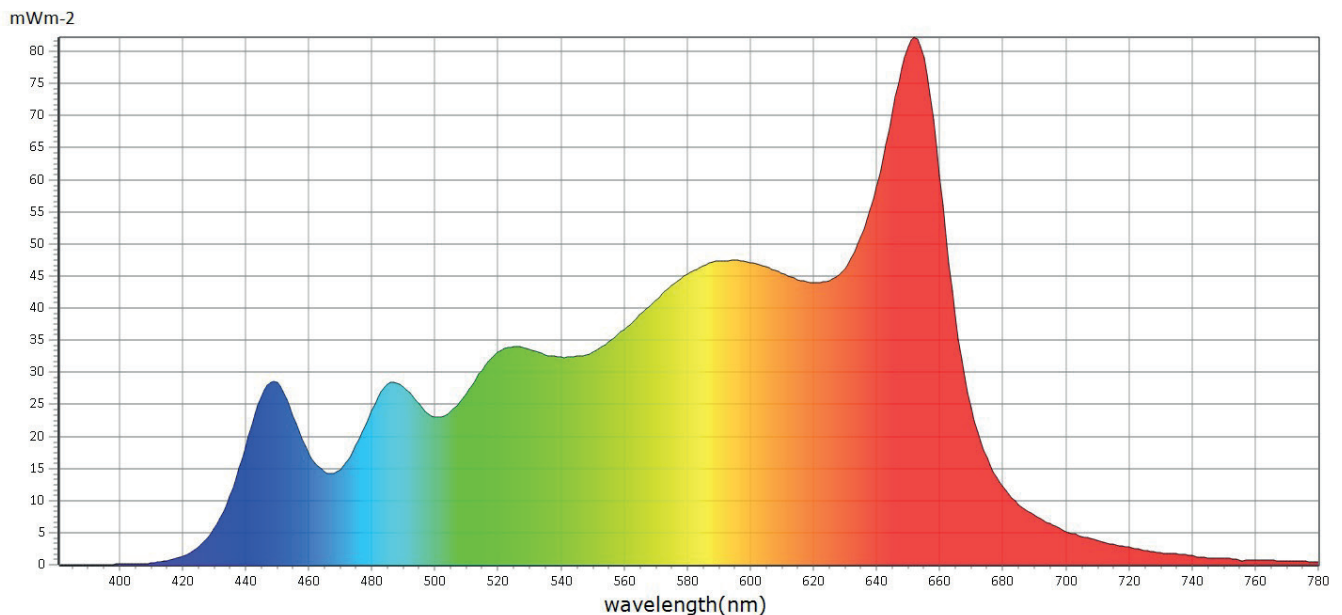
Information

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

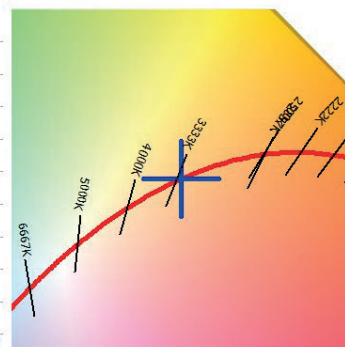
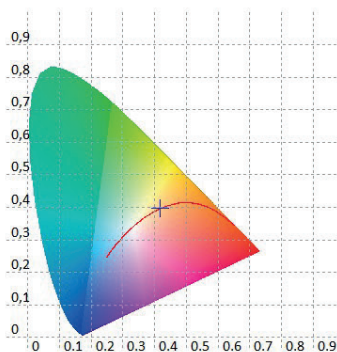
BASIC

CRI	: 98,0
x	: 0,4183
y	: 0,3965
CCT	: 3275
LUX	: 2791

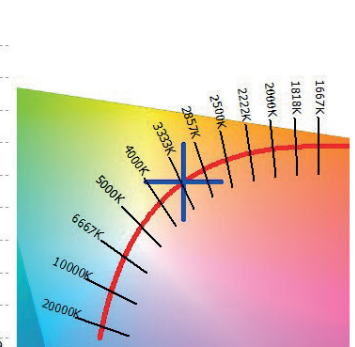
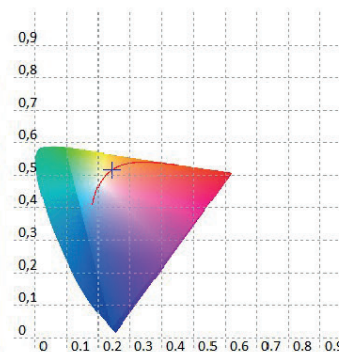
Spectrum



CIE1931



CIE1976



3200 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

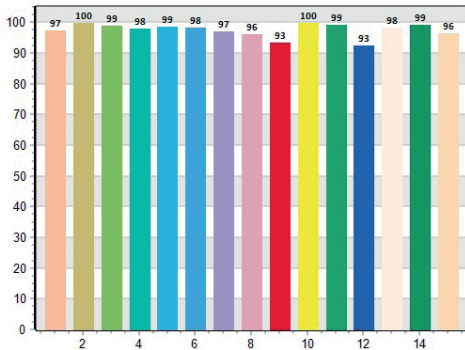
Information

User : Measure Time :16:27:53
Model NO. : MK350S PREMIUM Light Source :
Memo :
3200

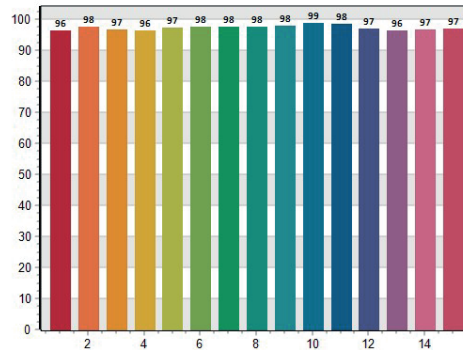
BASIC

CRI : 98,0
X : 0,4183
Y : 0,3965
CCT : 3275
LUX : 2791

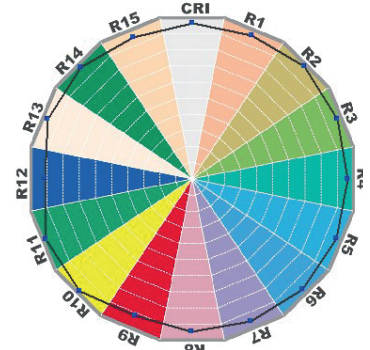
CRI: 97,99



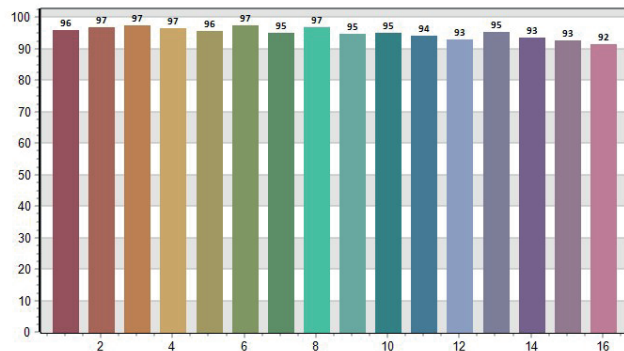
CQS: 97,08



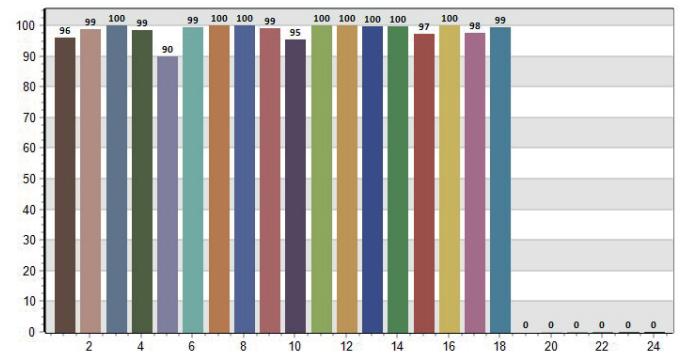
CRI-2



TM30: 95,79



TLCI: 97,32



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	99,8	98,7	98,0	98,5	98,3	97,1	96,0	93,5	99,8	99,3	92,6	98,2	99,0	96,3

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
96,1	97,0	97,4	96,5	95,5	97,4	95,1	96,8	94,8	94,9	94,3	93,1	95,2	93,5	92,7	91,6

CQS Q values

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

5600 K (calibrated macro) Spectrum Test Report

Slot #7

Medium @ 5m

UPRtek
United Power Research Technology Corporation

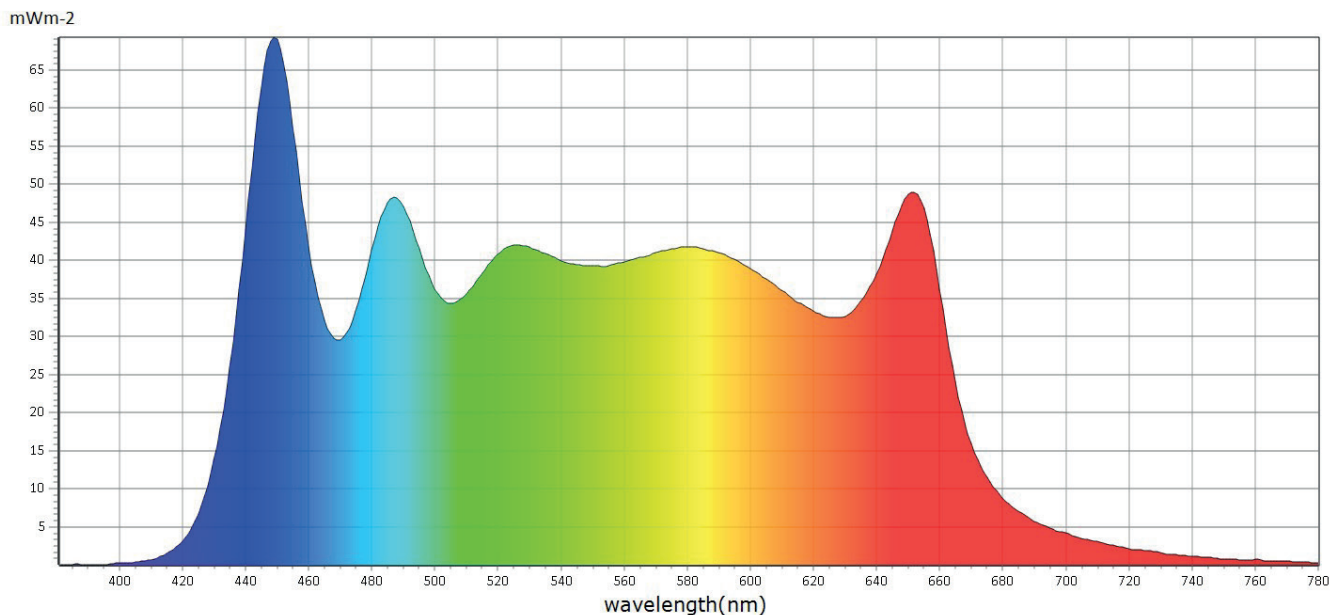
Information

User :	Measure Time :16:28:17
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
5600	

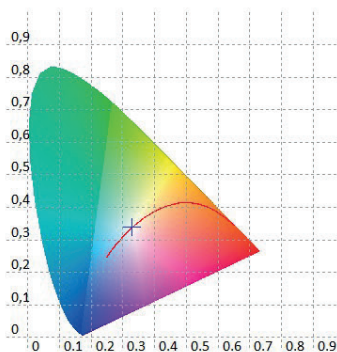
BASIC

CRI	: 96,9
x	: 0,3282
y	: 0,3399
CCT	: 5687
LUX	: 2873

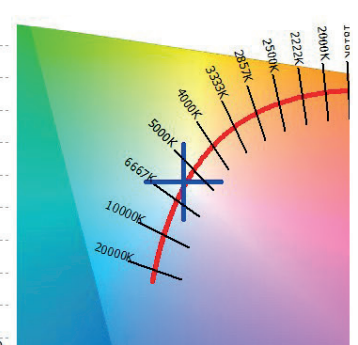
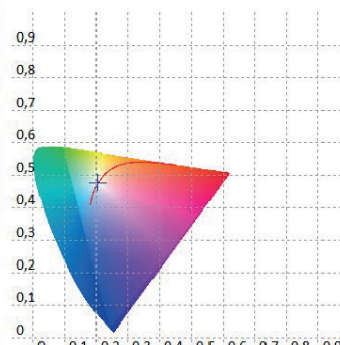
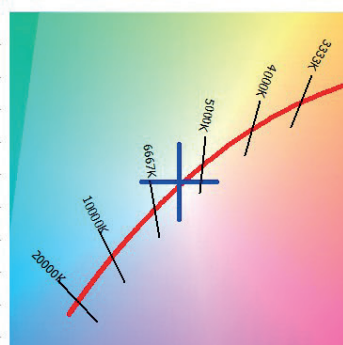
Spectrum



CIE1931



CIE1976



5600 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

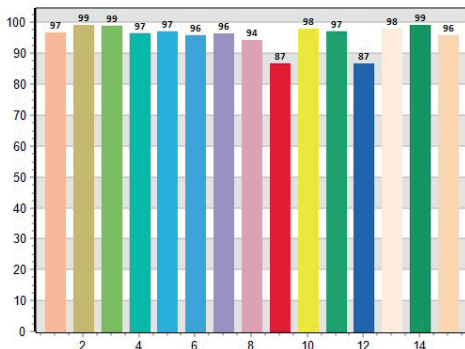
Information

User :	Measure Time :16:28:17
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
5600	

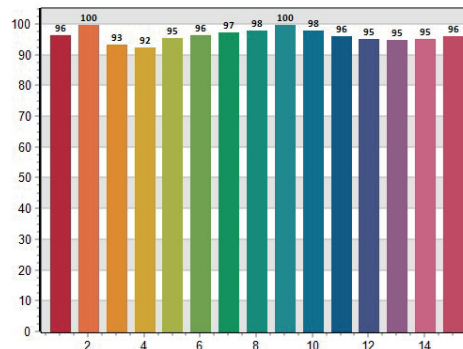
BASIC

CRI	: 96,9
X	: 0,3282
Y	: 0,3399
CCT	: 5687
LUX	: 2873

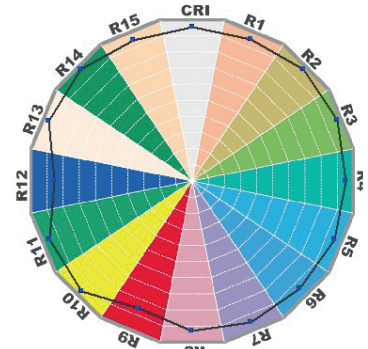
CRI: 96,87



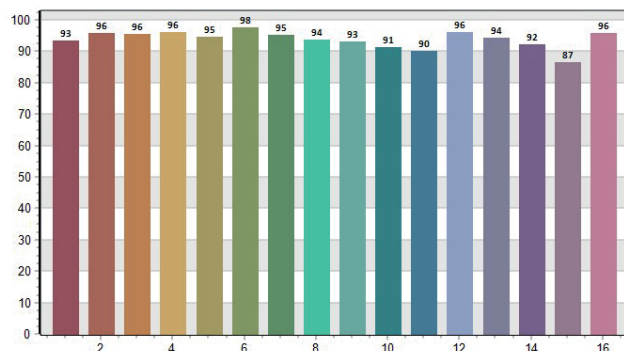
CQS: 95,64



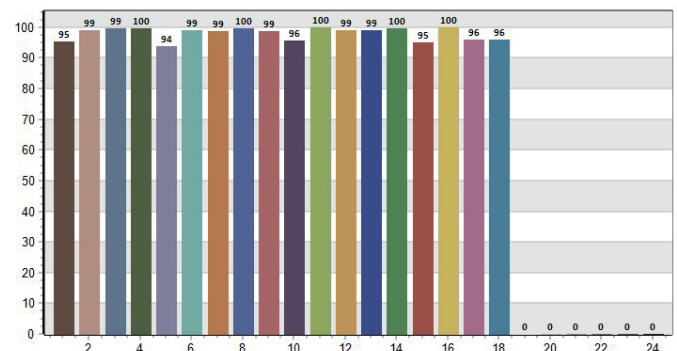
CRI-2



TM30: 94,51



TLCI: 97,34



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
96,7	99,2	99,0	96,6	97,0	96,0	96,4	94,2	86,8	97,9	97,2	86,6	98,0	99,1	95,9

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
93,2	95,7	95,5	96,1	94,6	97,6	95,2	93,7	93,2	91,2	90,1	96,1	94,2	92,3	86,6	95,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,4	99,7	93,3	92,2	95,2	96,4	97,1	97,7	99,6	97,8	96,1	95,0	94,7	95,0	95,9

6500 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

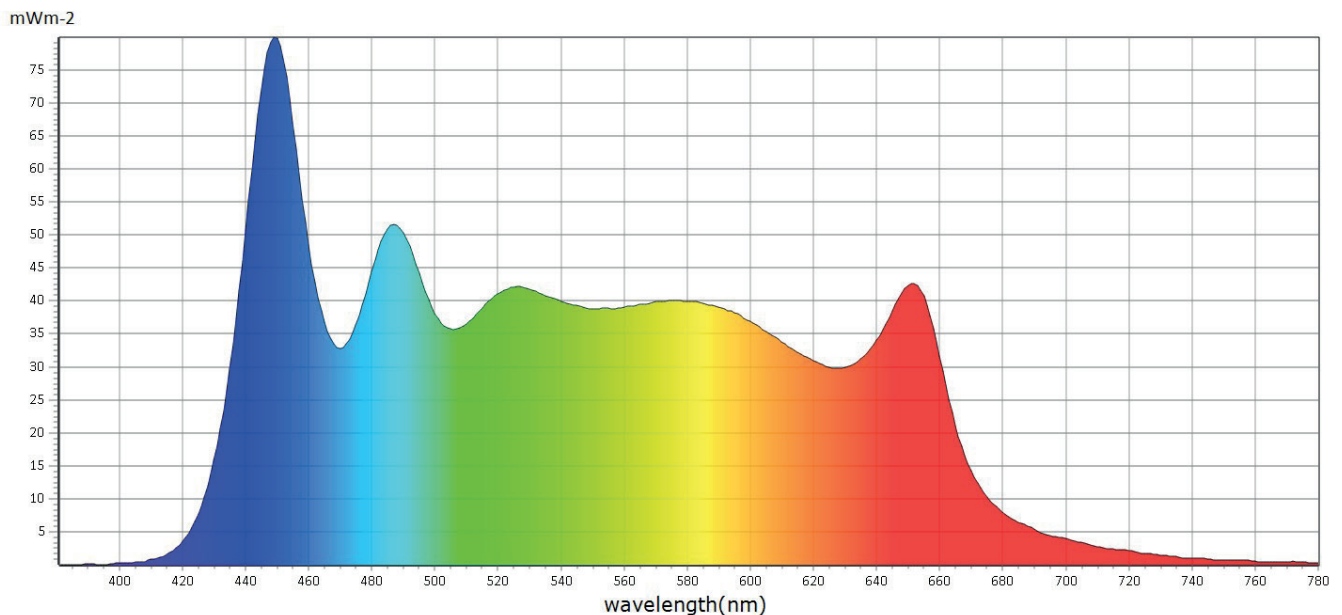
Information

User :	Measure Time :16:28:24
Model NO. : MK350S PREMIUM	Light Source :
Memo : 6500	

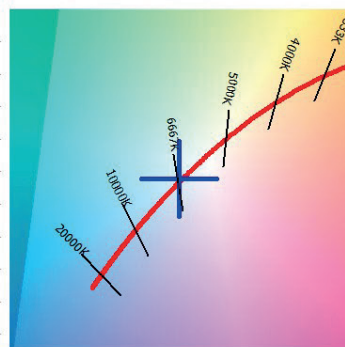
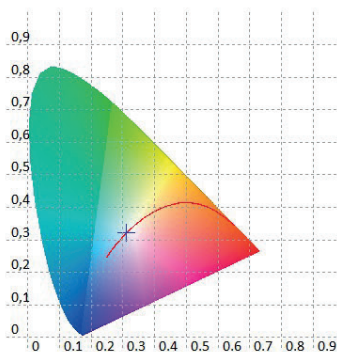
BASIC

CRI	: 96,7
x	: 0,3118
y	: 0,3237
CCT	: 6598
LUX	: 2822

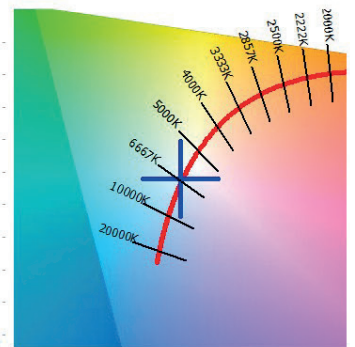
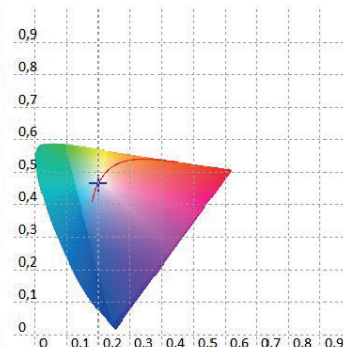
Spectrum



CIE1931



CIE1976



6500 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

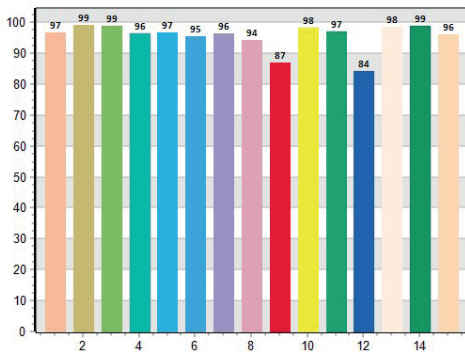
Information

User :	Measure Time :16:28:24
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
6500	

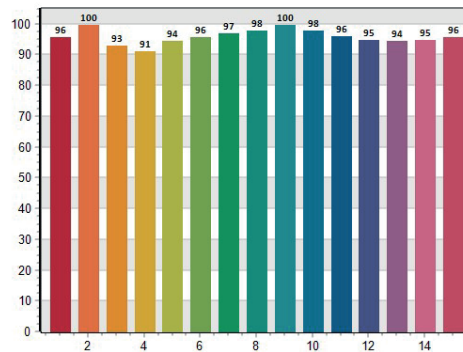
BASIC

CRI	: 96,7
X	: 0,3118
Y	: 0,3237
CCT	: 6598
LUX	: 2822

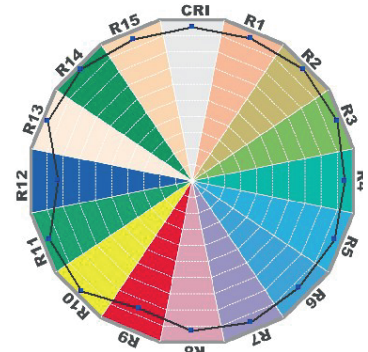
CRI: 96,73



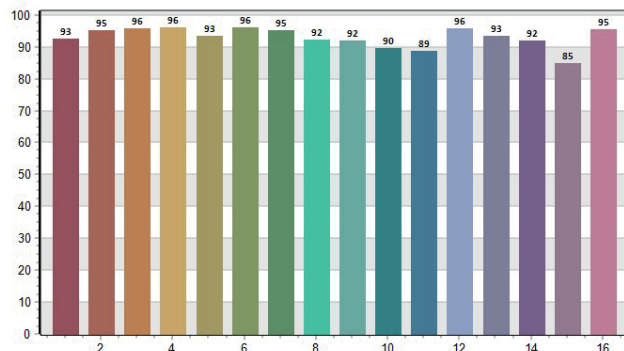
CQS: 95,20



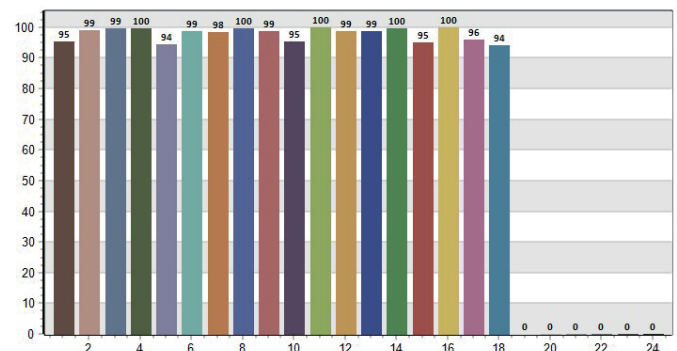
CRI-2



TM30: 93,78



TLCI: 97,16



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	99,1	98,9	96,4	96,7	95,3	96,2	94,3	87,0	98,3	96,9	84,1	98,5	98,8	96,1

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
92,6	95,2	95,7	96,0	93,3	96,1	95,3	92,4	91,9	89,5	88,8	95,8	93,3	92,1	85,0	95,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,6	99,6	92,7	91,0	94,3	95,7	96,9	97,8	99,6	97,9	95,9	94,8	94,5	94,8	95,5

8000 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

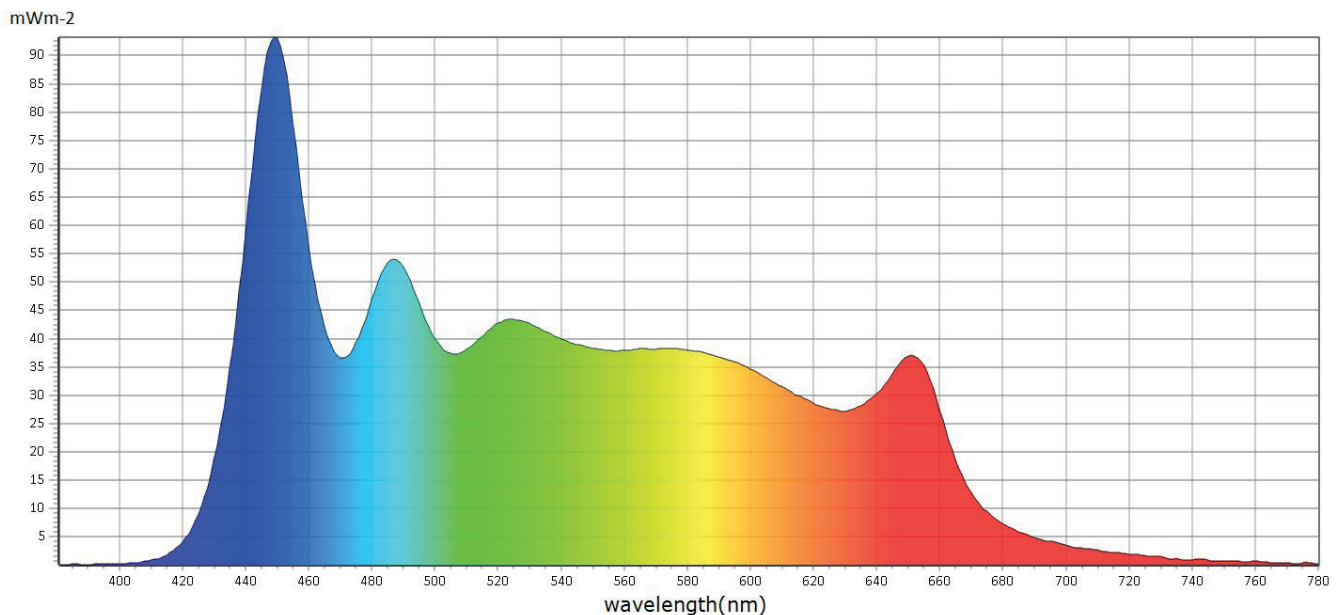
Information

User :	Measure Time :16:28:30
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
8000	

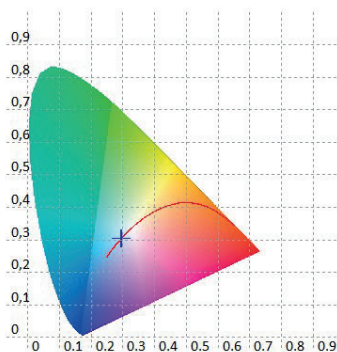
BASIC

CRI	: 96,7
x	: 0,2947
y	: 0,3061
CCT	: 8005
LUX	: 2774

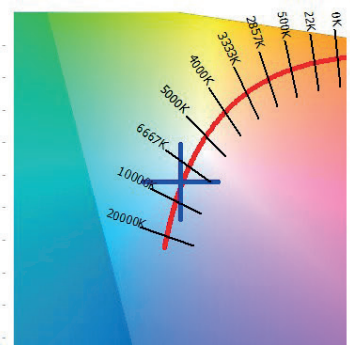
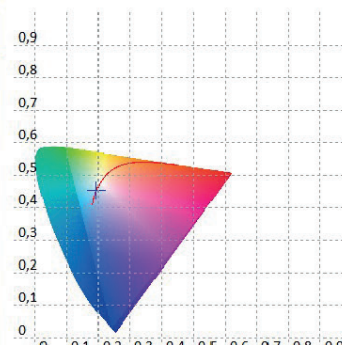
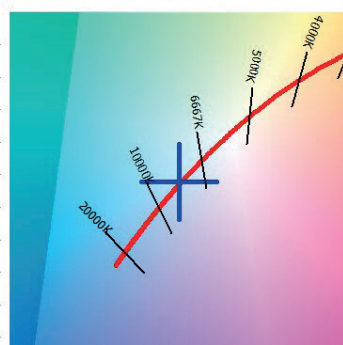
Spectrum



CIE1931



CIE1976



8000 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

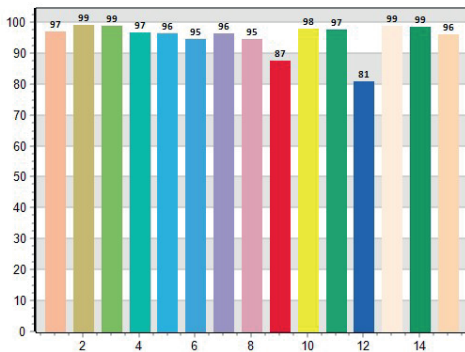
Information

User :	Measure Time :16:28:30
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
8000	

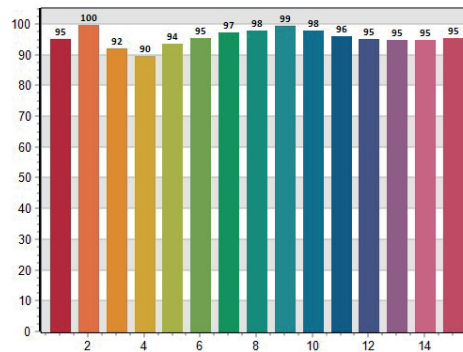
BASIC

CRI	: 96,7
X	: 0,2947
Y	: 0,3061
CCT	: 8005
LUX	: 2774

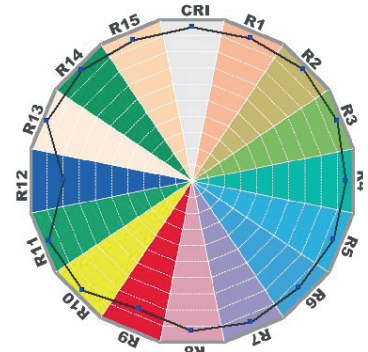
CRI: 96,71



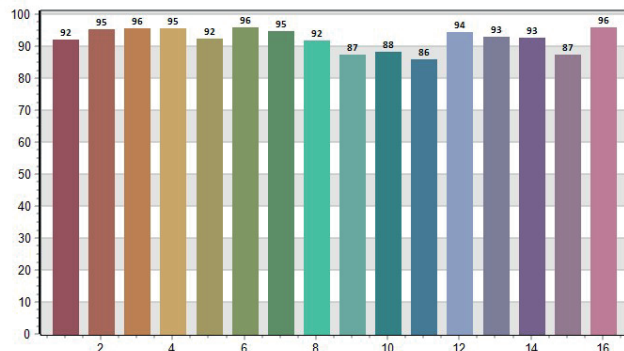
CQS: 94,89



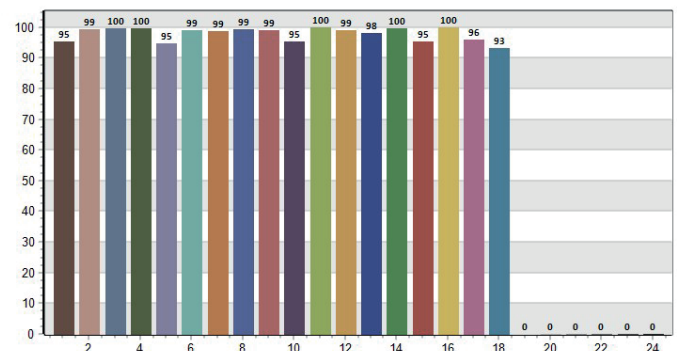
CRI-2



TM30: 93,14



TLCI: 97,11



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	99,1	98,9	96,6	96,4	94,6	96,5	94,7	87,4	97,9	97,4	81,0	98,8	98,6	96,0

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
92,1	95,3	95,7	95,5	92,2	95,8	94,6	91,6	87,2	88,2	85,9	94,3	92,8	92,5	87,4	95,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,0	99,7	92,0	89,7	93,6	95,3	97,3	98,0	99,5	97,8	95,9	95,0	94,7	94,9	95,4

Red @100% Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

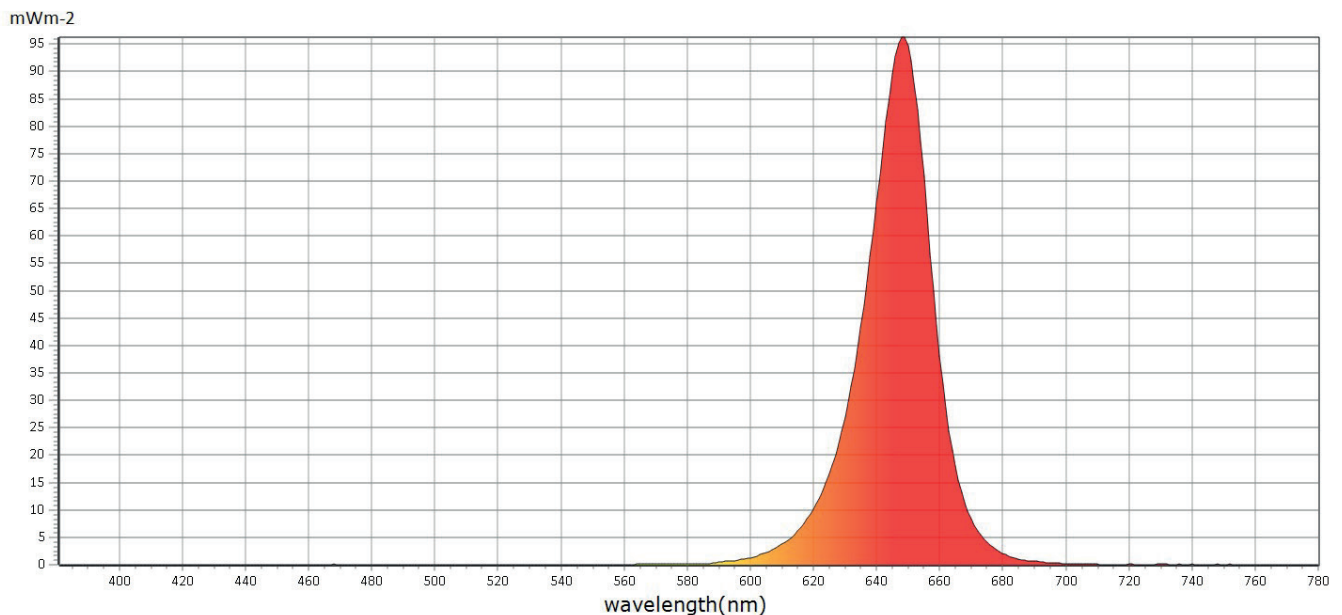
Information

User :	Measure Time :16:25:15
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
RED	

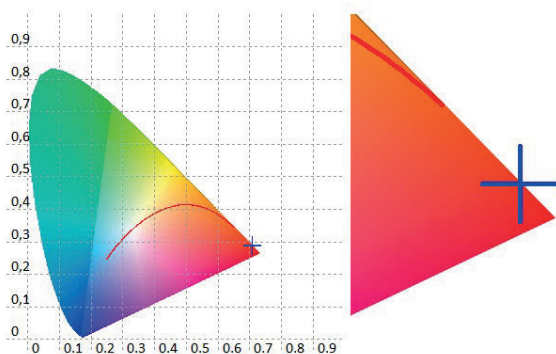
BASIC

CRI	: 0,0
x	: 0,7084
y	: 0,2893
CCT	: 0
LUX	: 276,9

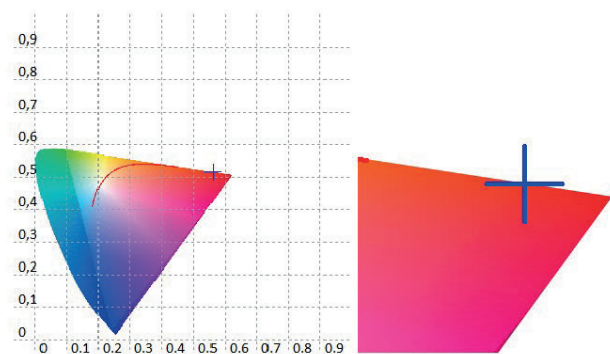
Spectrum



CIE1931



CIE1976



Green @100% Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

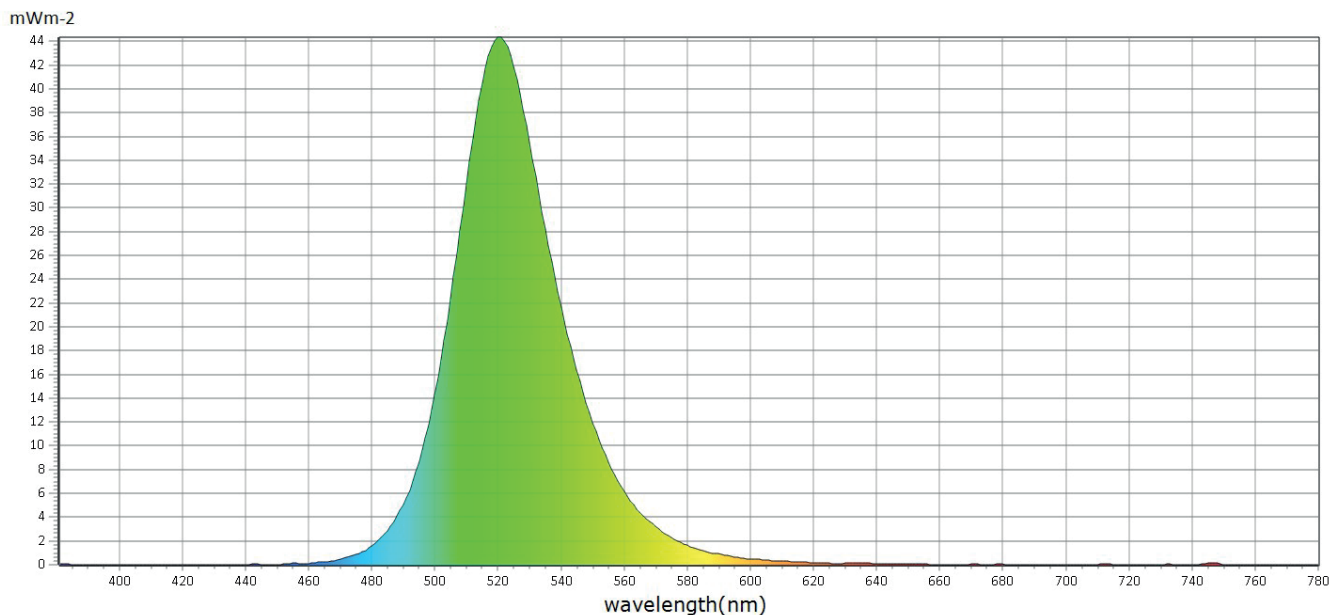
Information

User :	Measure Time :16:25:19
Model NO. : MK350S PREMIUM	Light Source :
Memo : GREEN	

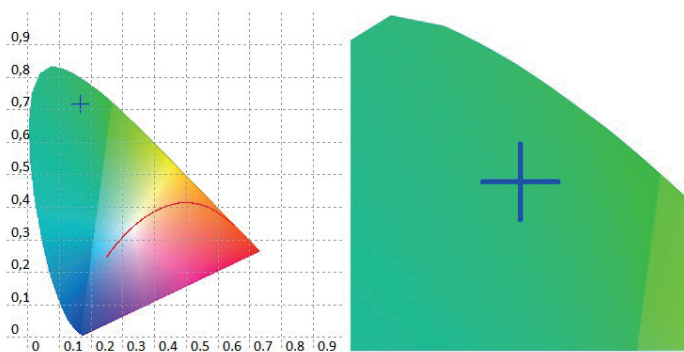
BASIC

CRI	: 0,0
x	: 0,1664
y	: 0,7185
CCT	: 7911
LUX	: 862,7

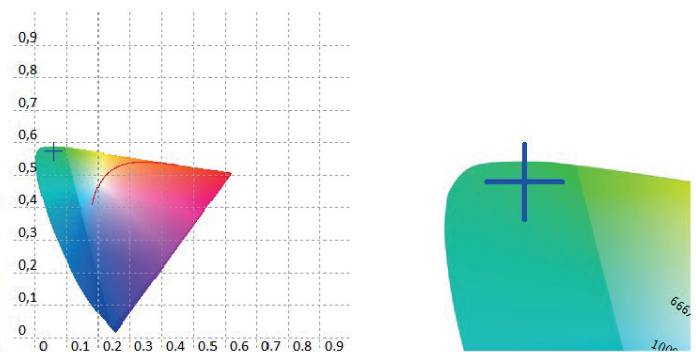
Spectrum



CIE1931



CIE1976



Blue @100% Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

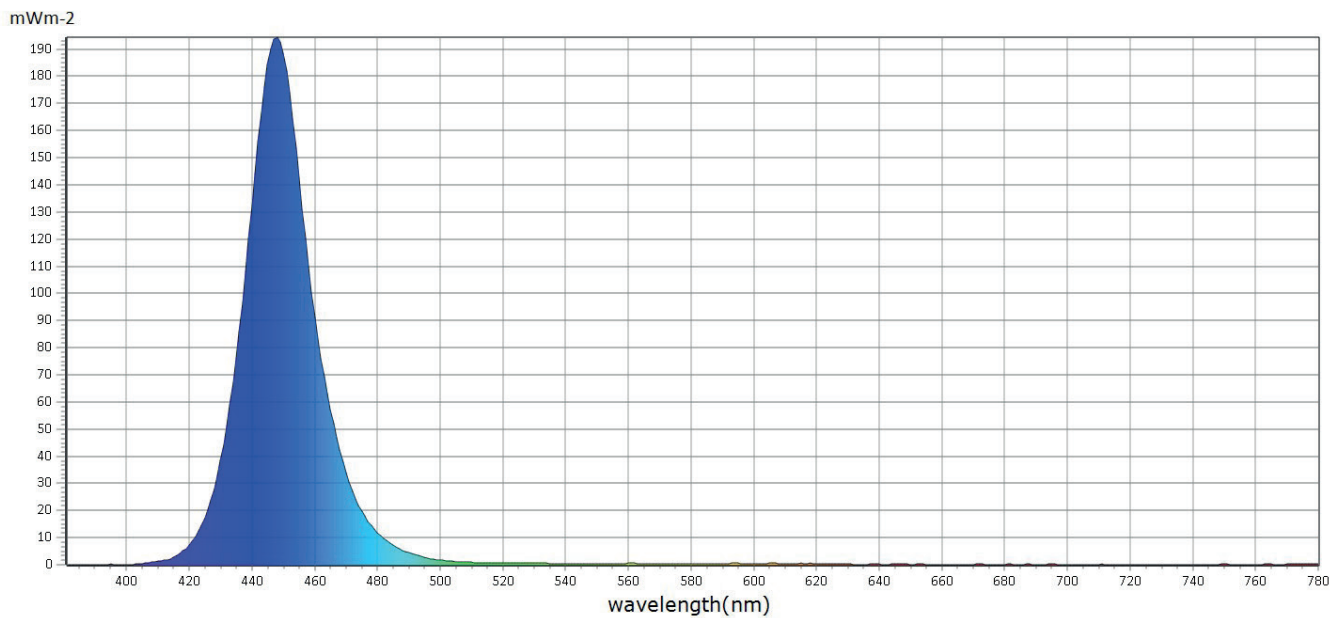
Information

User :	Measure Time :16:25:28
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
BLUE	

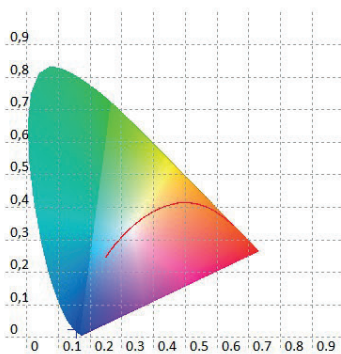
BASIC

CRI	: 0,0
x	: 0,1572
y	: 0,0253
CCT	: 0
LUX	: 175,7

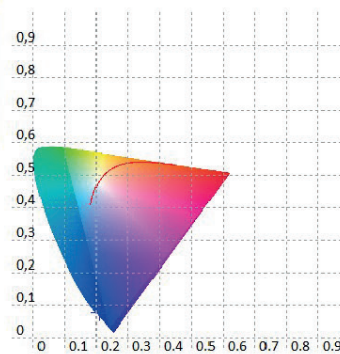
Spectrum



CIE1931



CIE1976



Amber @100% Spectrum Test Report

Medium@ 5m

UPRtek
United Power Research Technology Corporation

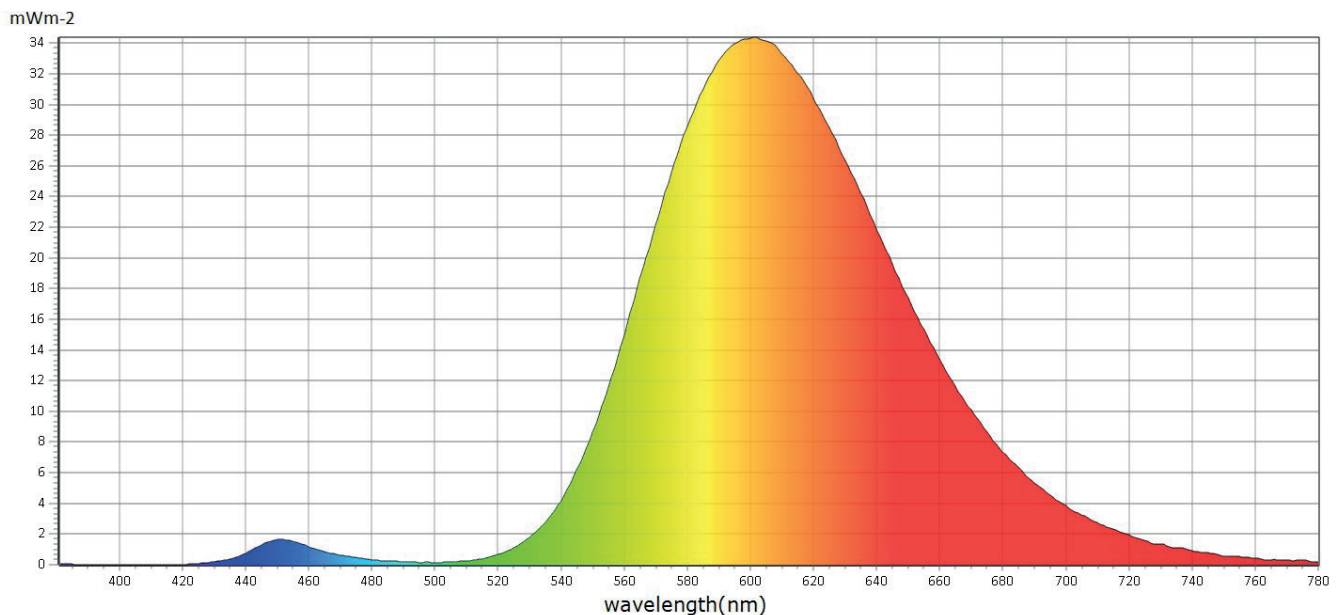
Information

User :	Measure Time :16:25:36
Model NO. : MK350S PREMIUM	Light Source :
Memo : AMBER	

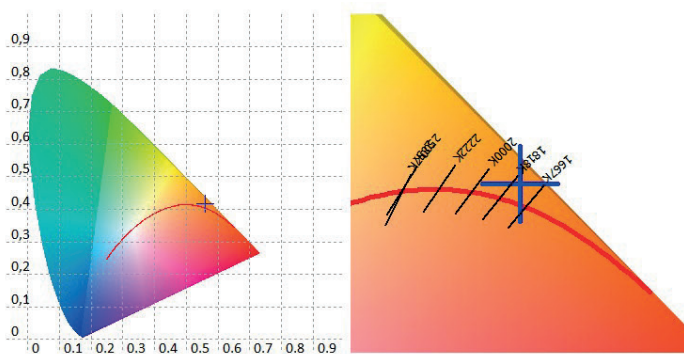
BASIC

CRI	: 43,8
x	: 0,5609
y	: 0,4183
CCT	: 1776
LUX	: 1144

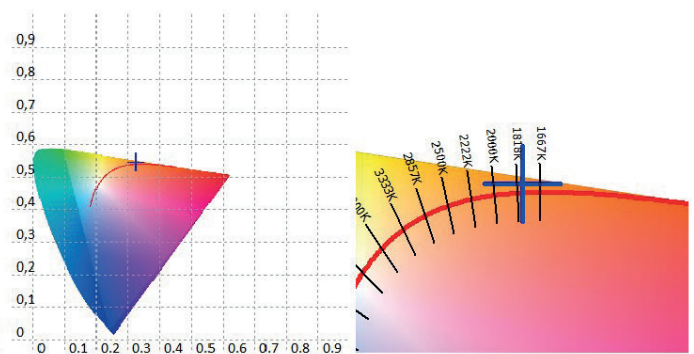
Spectrum



CIE1931



CIE1976



Lime @100% Spectrum Test Report

Medium@ 5m

UPRtek
United Power Research Technology Corporation

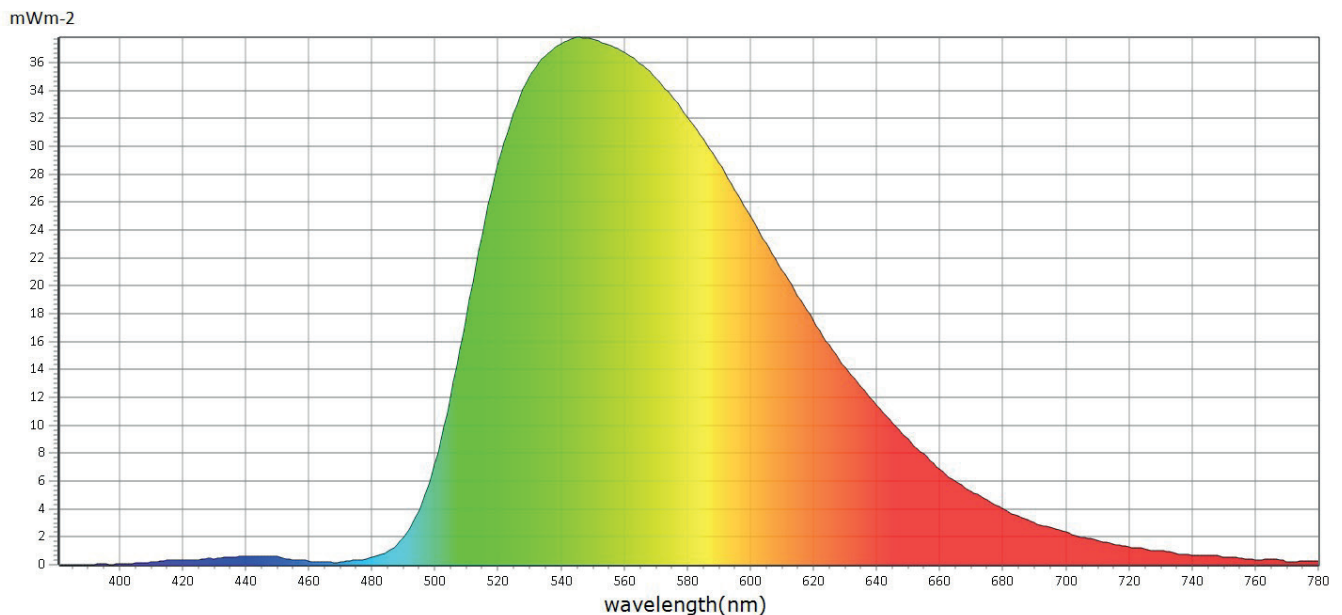
Information

User :	Measure Time :16:25:41
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
LIME	

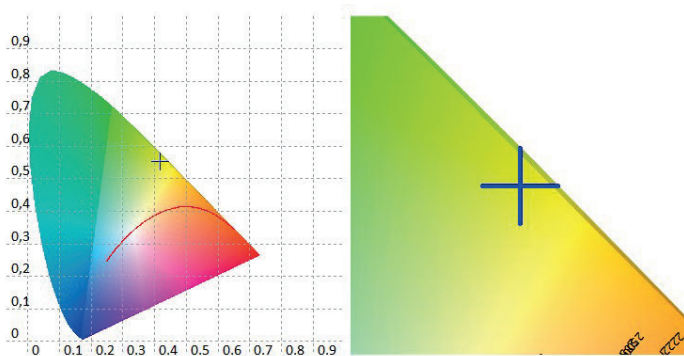
BASIC

CRI	: 37,4
x	: 0,4167
y	: 0,5542
CCT	: 4167
LUX	: 2020

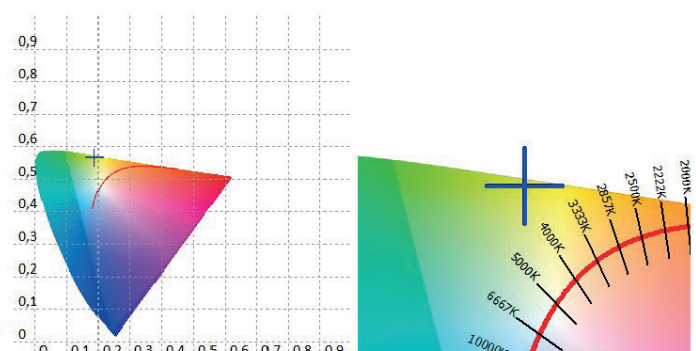
Spectrum



CIE1931



CIE1976



Cyan @100% Spectrum Test Report

Medium@ 5m

UPRtek
United Power Research Technology Corporation

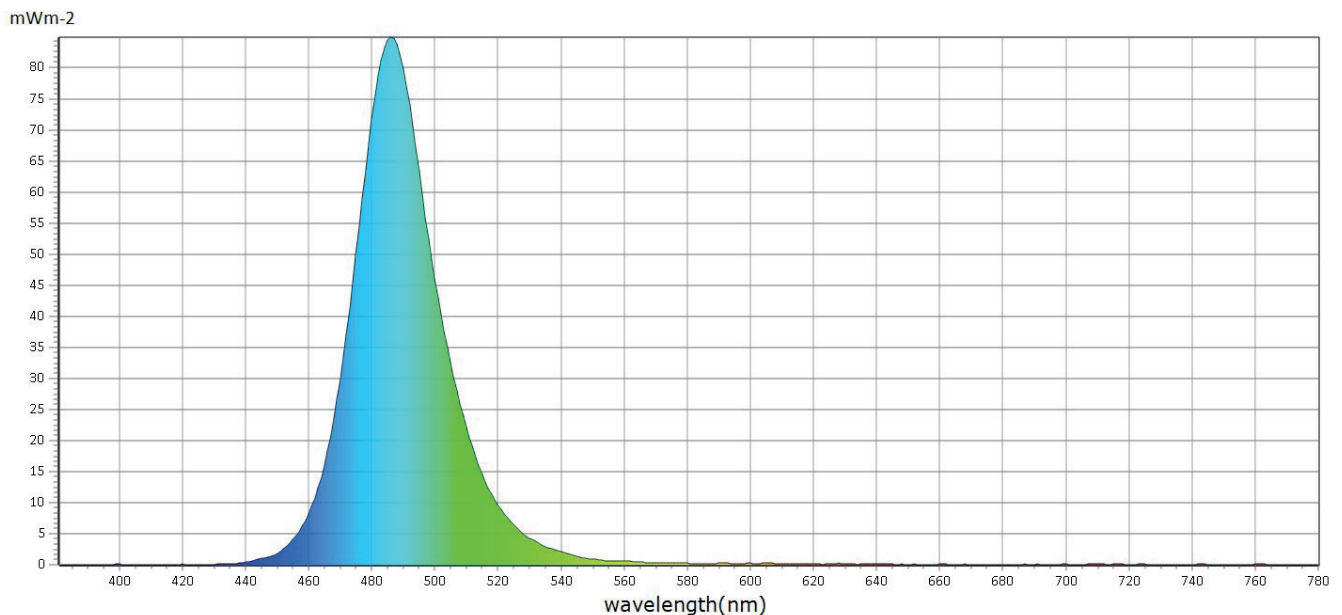
Information

User :	Measure Time :16:25:46
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
CYAN	

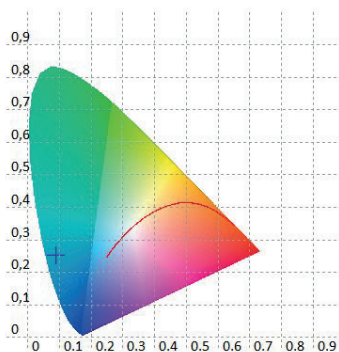
BASIC

CRI	: 0,0
x	: 0,0896
y	: 0,2539
CCT	: 0
LUX	: 466,9

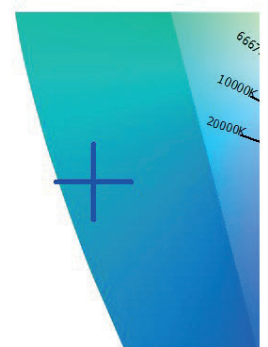
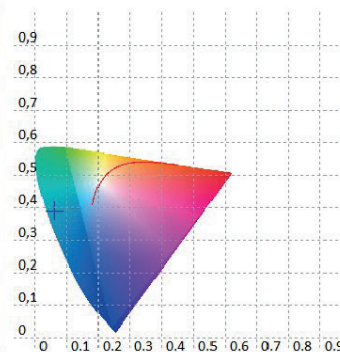
Spectrum



CIE1931

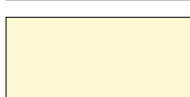
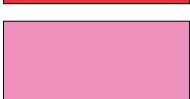
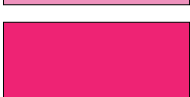
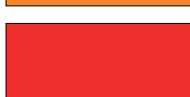


CIE1976



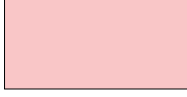
Virtual LEEFilters™ Database

The displayed colors are provided for visual reference only and should not be considered color-accurate reproductions of the corresponding LeeFilters™.

	#007 Pale Yellow	x 0.339 y 0.363		#071 Tokyo Blue	x 0.151 y 0.030
	#010 Medium Yellow	x 0.426 y 0.509		#079 Just Blue	x 0.145 y 0.072
	#015 Deep Straw	x 0.517 y 0.460		#088 Lime Green	x 0.356 y 0.511
	#019 Fire	x 0.664 y 0.310		#089 Moss Green	x 0.259 y 0.547
	#021 Gold Amber	x 0.586 y 0.396		#090 Dark Yellow Green	x 0.184 y 0.641
	#022 Dark Amber	x 0.647 y 0.339		#100 Spring Yellow	x 0.410 y 0.502
	#024 Scarlet	x 0.561 y 0.296		#101 Yellow	x 0.451 y 0.507
	#026 Bright Red	x 0.712 y 0.281		#102 Light Amber	x 0.434 y 0.440
	#027 Medium Red	x 0.712 y 0.261		#103 Straw	x 0.336 y 0.359
	#036 Medium Pink	x 0.360 y 0.268		#104 Deep Amber	x 0.496 y 0.462
	#046 Dark Magenta	x 0.572 y 0.223		#105 Orange	x 0.563 y 0.428
	#048 Rose Purple	x 0.288 y 0.167		#106 Primary Red	x 0.699 y 0.285
	#049 Medium Purple	x 0.283 y 0.101		#111 Dark Pink	x 0.389 y 0.215
	#058 Lavender	x 0.212 y 0.099		#113 Magenta	x 0.563 y 0.217
	#068 Sky Blue	x 0.151 y 0.128		#115 Peacock Blue	x 0.134 y 0.296

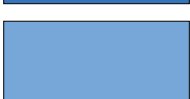
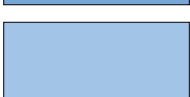
Virtual LEEFilters™ Database

The displayed colors are provided for visual reference only and should not be considered color-accurate reproductions of the corresponding LeeFilters™.

	#116 Medium Blue-Green	x 0.113 y 0.280		#138 Pale Green	x 0.331 y 0.433
	#117 Steel Blue	x 0.223 y 0.278		#139 Primary Green	x 0.196 y 0.712
	#118 Light Blue	x 0.149 y 0.113		#141 Bright Blue	x 0.129 y 0.159
	#119 Dark Blue	x 0.142 y 0.054		#143 Pale Navy Blue	x 0.170 y 0.205
	#120 Deep Blue	x 0.149 y 0.051		#147 Apricot	x 0.446 y 0.381
	#121 Green	x 0.302 y 0.534		#148 Bright Rose	x 0.482 y 0.238
	#122 Fern Green	x 0.234 y 0.543		#151 Gold Tint	x 0.361 y 0.321
	#124 Dark Green	x 0.123 y 0.586		#152 Pale Gold	x 0.370 y 0.332
	#128 Bright Pink	x 0.401 y 0.151		#154 Pale Rose	x 0.350 y 0.318
	#131 Marine Blue	x 0.199 y 0.305		#157 Pink	x 0.457 y 0.272
	#132 Medium Blue	x 0.137 y 0.110		#158 Deep Orange	x 0.588 y 0.403
	#134 Golden Amber	x 0.501 y 0.371		#161 Slate Blue	x 0.176 y 0.176
	#135 Deep Golden Amber	x 0.667 y 0.326		#162 Bastard Amber	x 0.348 y 0.328
	#136 Pale Lavender	x 0.288 y 0.254		#164 Flame Red	x 0.659 y 0.302
	#137 Special Lavender	x 0.231 y 0.175		#165 Daylight Blue	x 0.159 y 0.158

Virtual LEEFilters™ Database

The displayed colors are provided for visual reference only and should not be considered color-accurate reproductions of the corresponding LeeFilters™.

	#169 Lilac Tint	x 0.294 y 0.281		#247 MinusGreen	x 0.325 y 0.279
	#170 Deep Lavender	x 0.278 y 0.211		#248 Half Minus Green	x 0.317 y 0.297
	#172 Lagoon Blue	x 0.141 y 0.220		#281 Three Quarter CT Blue	x 0.239 y 0.258
	#179 Chrome Orange	x 0.520 y 0.460		#285 Three Quarter CT Orange	x 0.400 y 0.387
	#180 Dark Lavender	x 0.191 y 0.072		#352 Glacier Blue	x 0.171 y 0.190
	#181 Congo Blue	x 0.158 y 0.035		#353 Lighter Blue	x 0.193 y 0.246
	#197 Alice Blue	x 0.164 y 0.118		#715 Cabana Blue	x 0.152 y 0.075
	#198 Palace Blue	x 0.159 y 0.066		#793 Vanity Fair	x 0.419 y 0.170
	#200 Double CT Blue	x 0.179 y 0.155			
	#201 Full CT Blue	x 0.228 y 0.233			
	#202 Half CT Blue	x 0.261 y 0.273			
	#203 Quarter CT Blue	x 0.285 y 0.294			
	#204 Full CT Orange	x 0.437 y 0.392			
	#205 Half CT Orange	x 0.374 y 0.364			
	#206 Quarter CT Orange	x 0.346 y 0.340			

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