



Designed for professional environments demanding power, precision, and operational comfort, **HERITAGE Fresnel 500** 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 500** can also be operated in X,Y mode within the CIE 1931 color space. Its zoom range from 11° to 58° 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 18.300 lumens and a CRI > 95, **HERITAGE Fresnel 500** establishes itself as a reference solution for productions where performance must be paired with impeccable light quality and genuine ease of use.

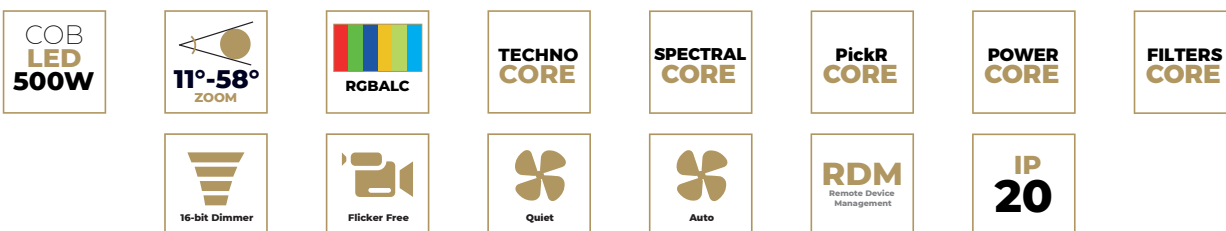


Table of Contents

Specifications	3
Photometric Data Narrow (9°)	4
Photometric Data Medium (33°)	5
Photometric Data Wide (51°)	6
RGBALC Spectrum Test Report.....	8
3200 K (calibrated macro) Spectrum Test Report	10
5600 K (calibrated macro) Spectrum Test Report	12
6500 K (calibrated macro) Spectrum Test Report	14
8000 K (calibrated macro) Spectrum Test Report	16
Red @100% Spectrum Test Report.....	18
Green @100% Spectrum Test Report	19
Blue @100% Spectrum Test Report.....	20
Amber @100% Spectrum Test Report	21
Lime @100% Spectrum Test Report.....	22
Cyan @100% Spectrum Test Report.....	23
Virtual LEE Filters database reference	24

[Find the technical datasheet here :](#)



Download

[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
- **500W (or 250W) Power Core™** power supply.
(depending of model)

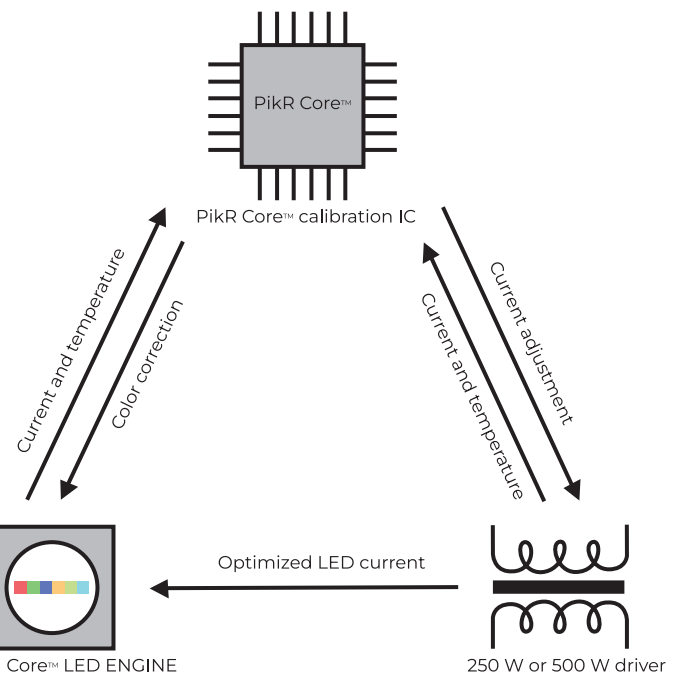
The LED engine and the **PikR Core™** calibration and processing chip form the technological heart of **Spectral Core™**, ensuring stability and repeatability.

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	9700K (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)	18303 lm
Fixture Illuminance	Narrow: 10038 lux@5m 10.9° Medium: 4792 lux@5m 19.7° Wide: 1326 lux@5m 45.6°
Fixture CCT Output	1800 - 10000 K
CRI	@6500k: 97.58 @3200k: 98.41
Tm30	@6500k: 94.47 @3200k: 96.62
TLCI	@6500k: 97.73 @3200k: 95.86
CQS	@6500k: 95.44 @3200k: 97.16

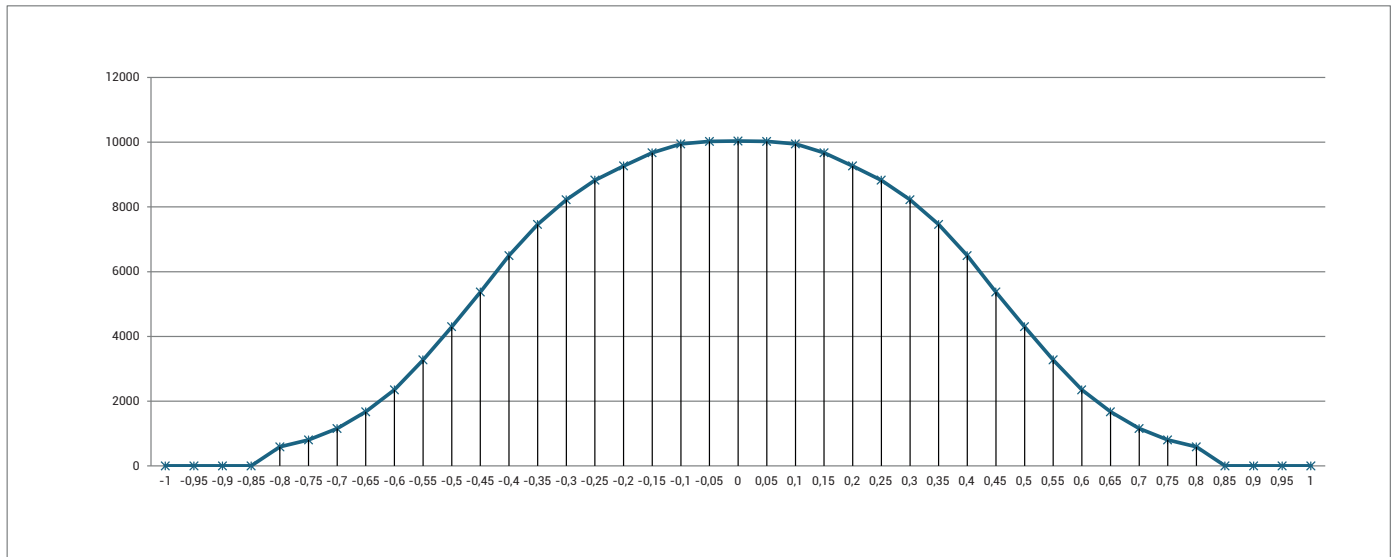
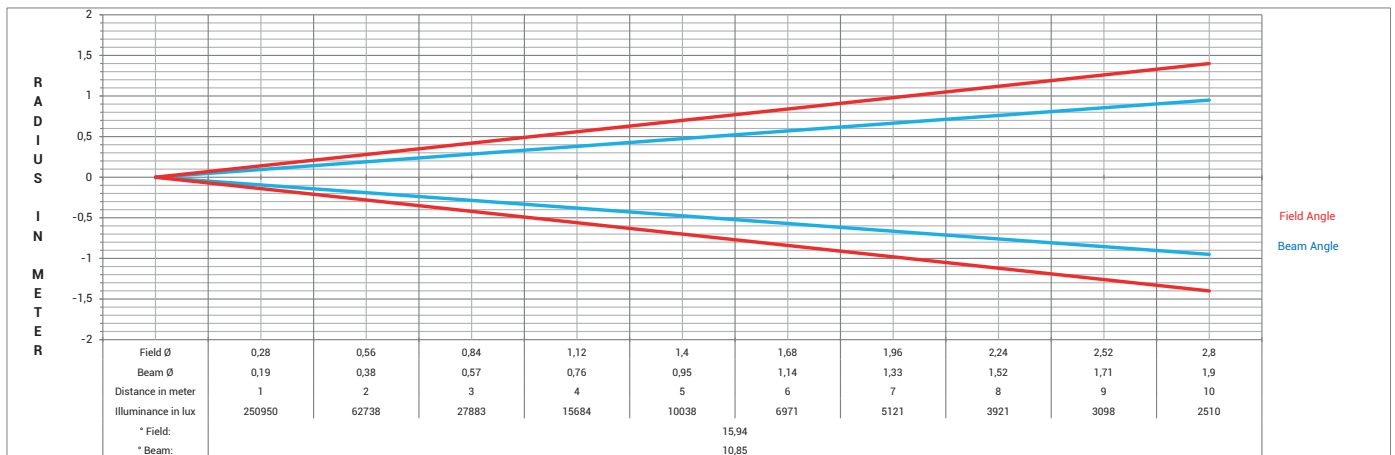
Optical

Lens Diameter	200 mm
Zoom Range	10.85° - 58.5°
Zoom Ratio	5.4:1

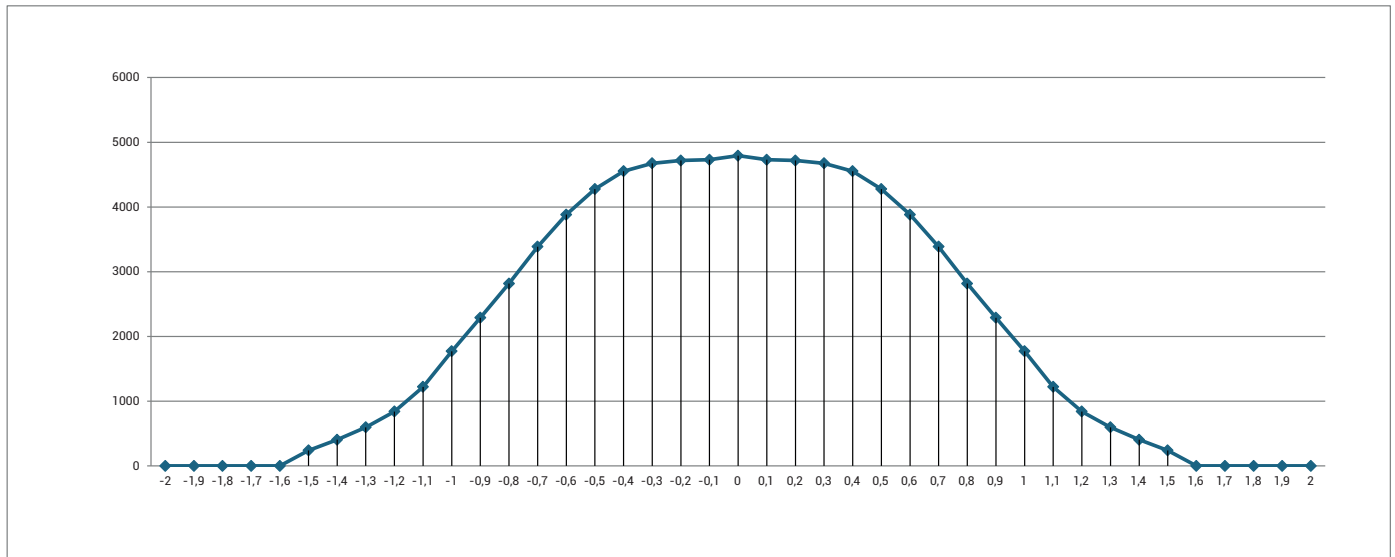
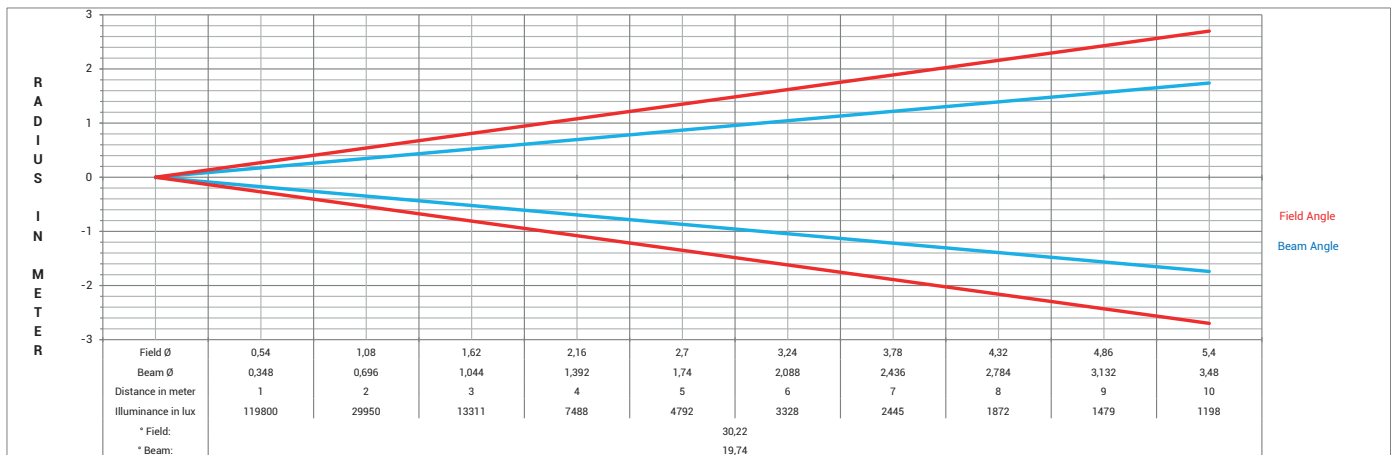
Colour System

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

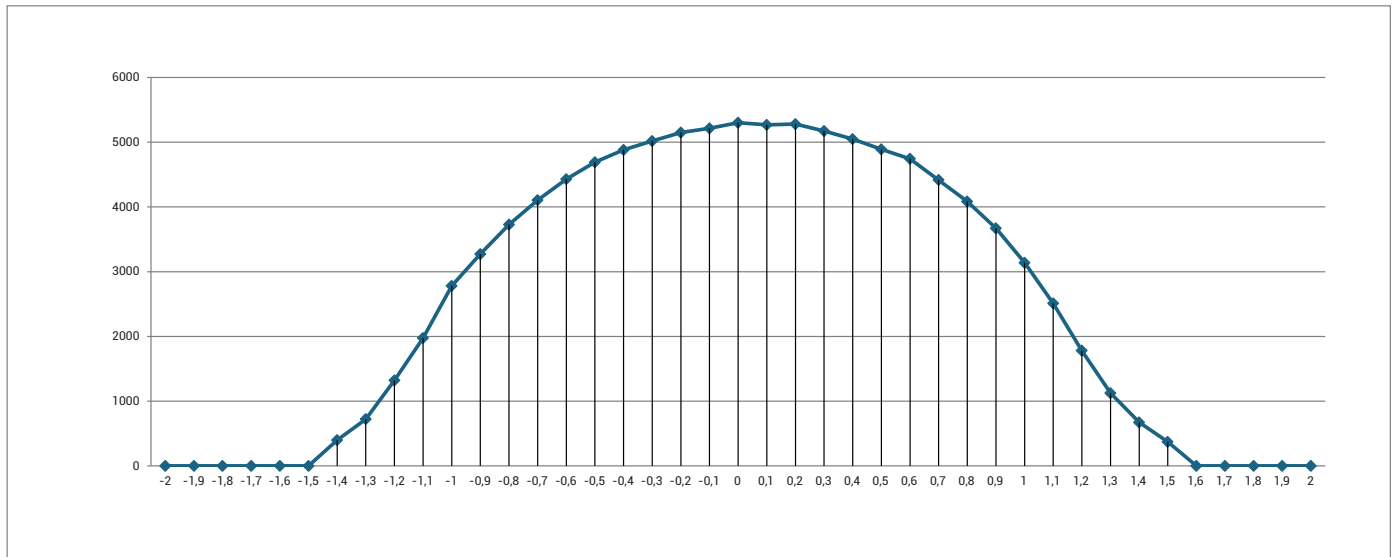
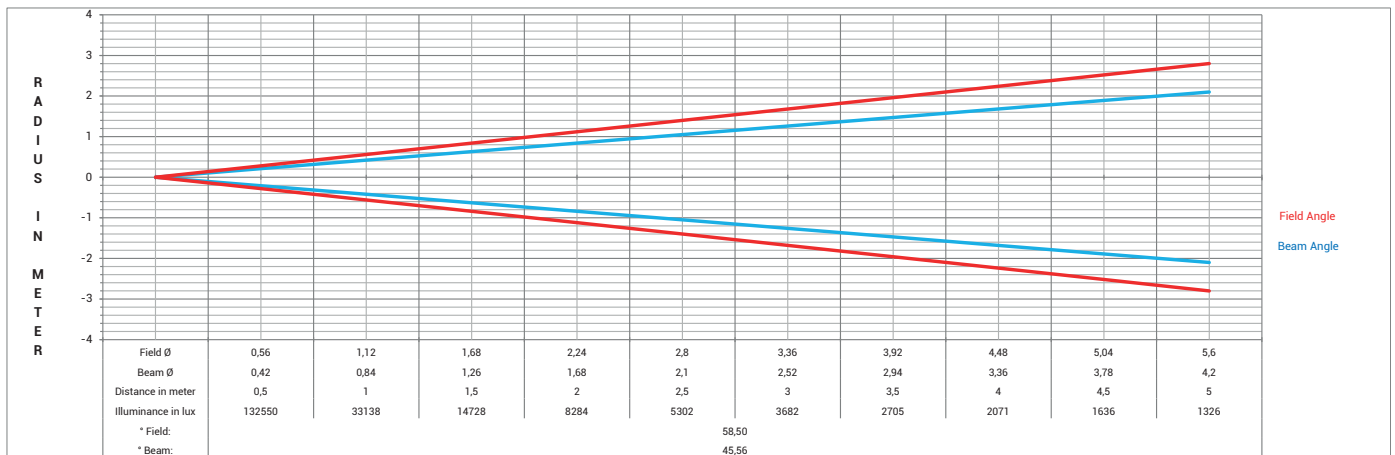
Photometric Data - 9° (Narrow)



Photometric Data - 33° (Medium)



Photometric Data - 51° (Wide)



RGBALC Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

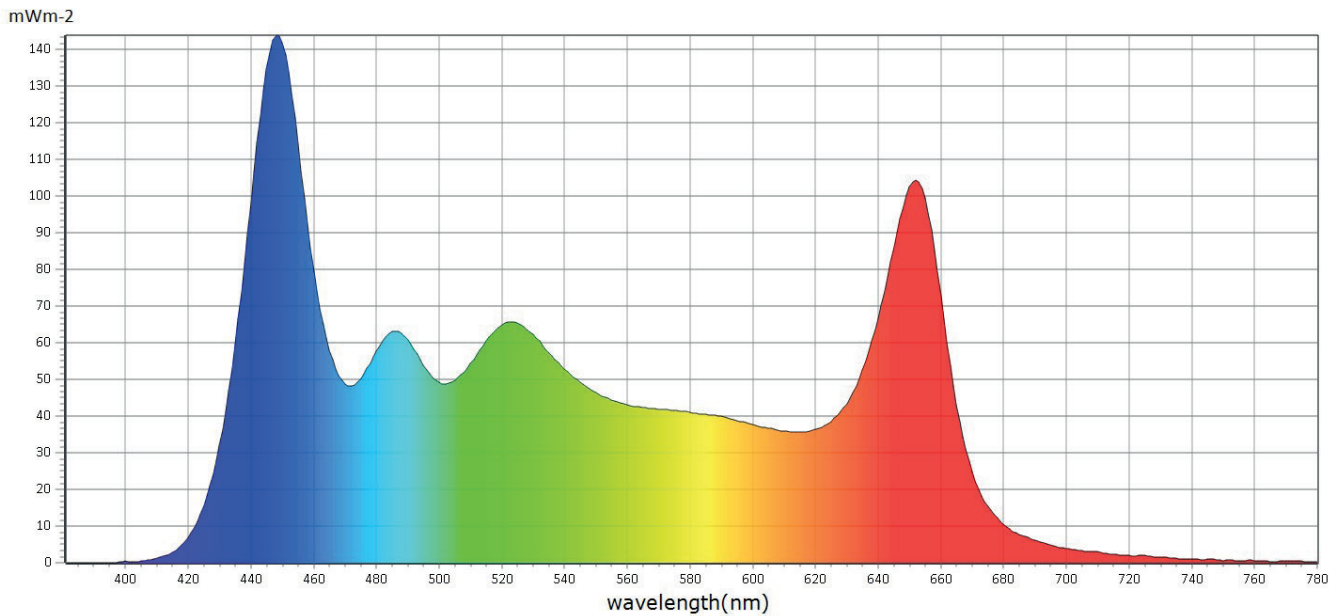
Information

User :	Measure Time :12:15:11
Model NO. : MK350S PREMIUM	Light Source :
Memo : FULL	

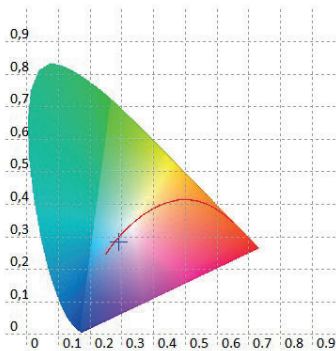
BASIC

CRI	: 81,9
x	: 0,2893
y	: 0,2839
CCT	: 9276
LUX	: 3552

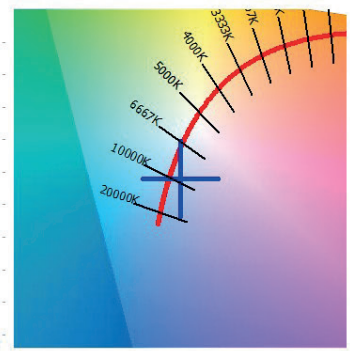
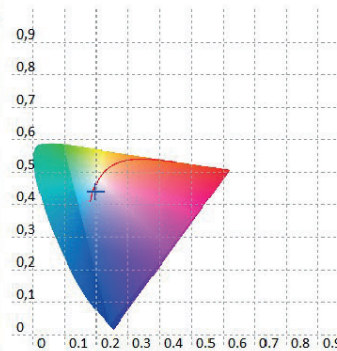
Spectrum



CIE1931



CIE1976



RGBALC Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

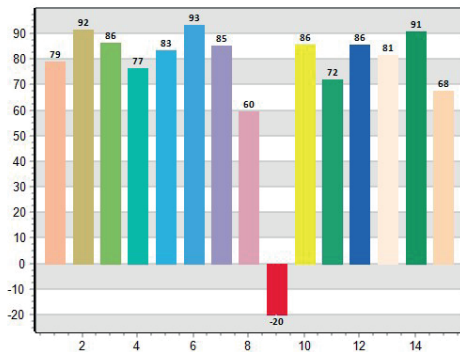
Information

User : Measure Time :12:15:11
Model NO. : MK350S PREMIUM Light Source :
Memo :
FULL

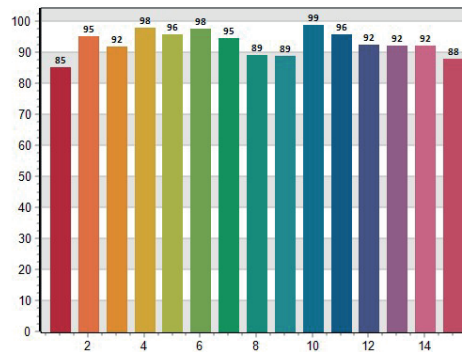
BASIC

CRI : 81,9
X : 0,2893
Y : 0,2839
CCT : 9276
LUX : 3552

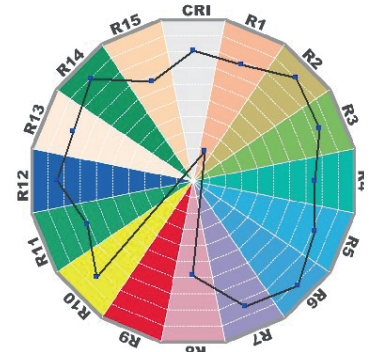
CRI: 81,85



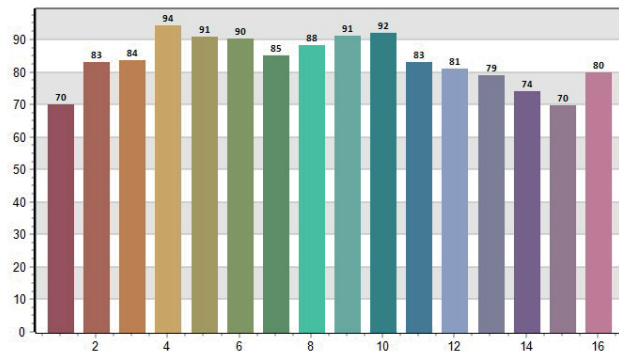
CQS: 92,06



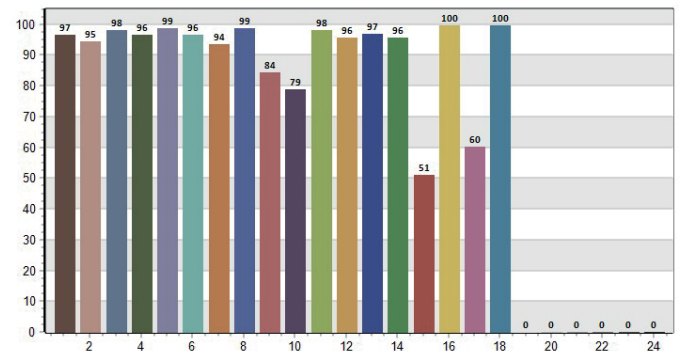
CRI-2



TM30: 86,66



TLCI: 80,74



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
79,0	91,5	86,3	76,5	83,2	93,3	85,4	59,6	-20,0	85,5	72,2	85,7	81,4	90,6	67,6

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
70,1	83,2	83,5	94,4	91,0	90,4	85,1	88,2	91,3	91,9	83,0	81,0	78,9	74,2	69,7	79,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,2	95,1	92,0	98,0	95,8	97,5	94,6	89,3	88,9	98,9	95,8	92,4	92,2	92,3	87,9

3200 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

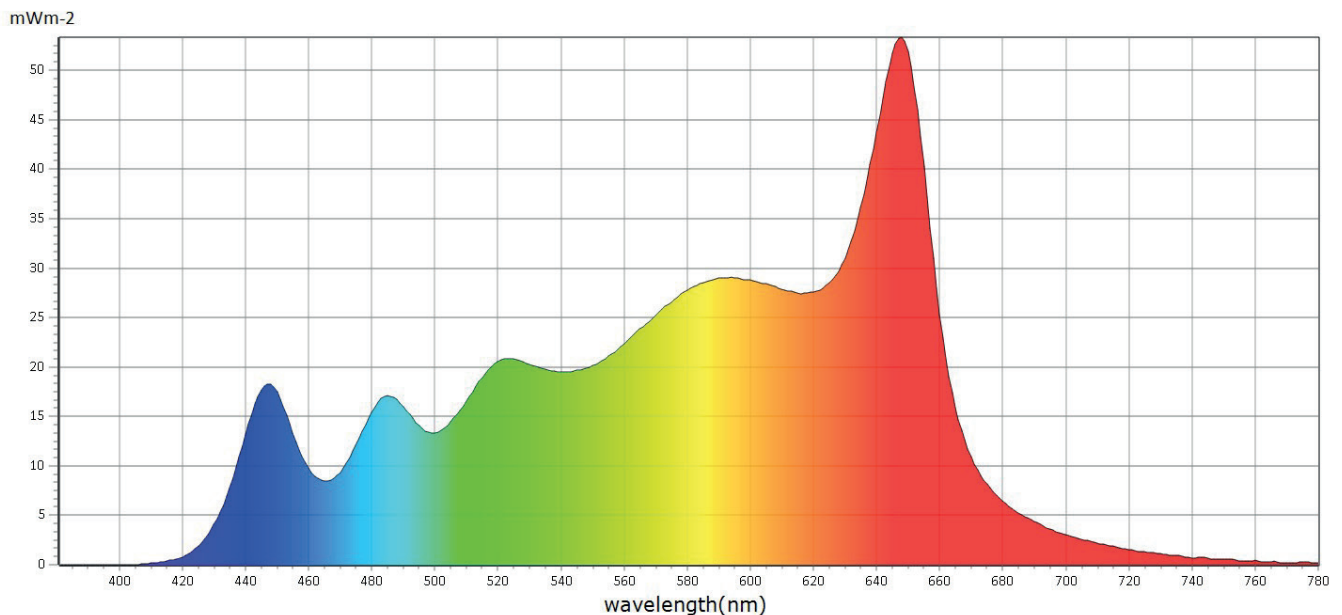
Information

User :	Measure Time :12:18:25
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
3200	

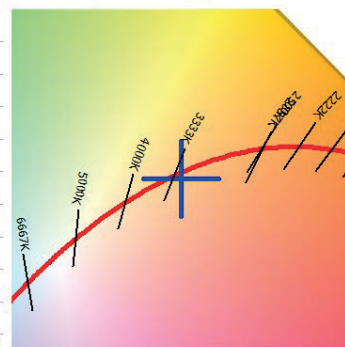
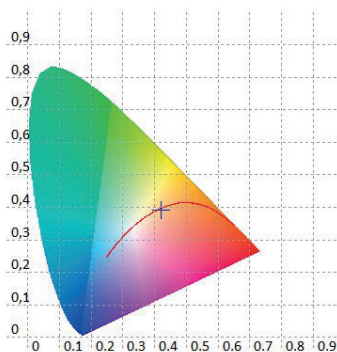
BASIC

CRI	: 98,4
x	: 0,4199
y	: 0,3926
CCT	: 3211
LUX	: 1716

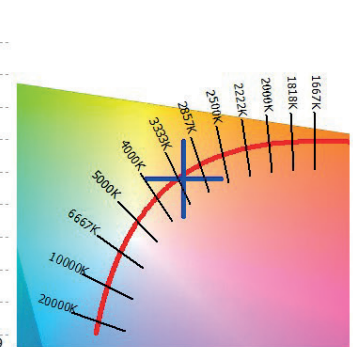
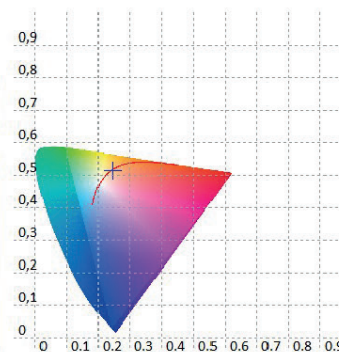
Spectrum



CIE1931



CIE1976



3200 K (*calibrated macro*) Spectrum Test Report

Medium @ 5m

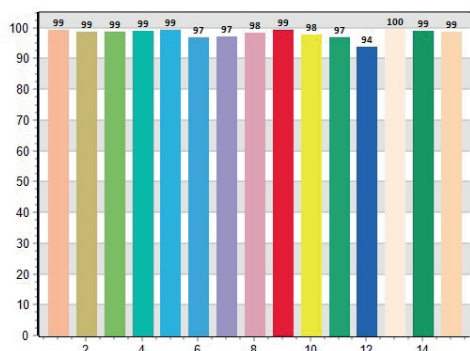
Information

User :	Measure Time :12:18:25
Model NO. : MK350S PREMIUM	Light Source :
Memo : 3200	

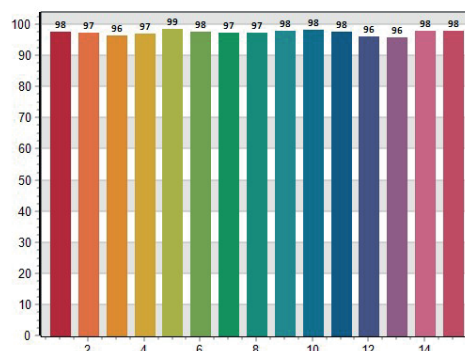
BASIC

CRI	: 98,4
x	: 0,4199
y	: 0,3926
CCT	: 3211
LUX	: 1716

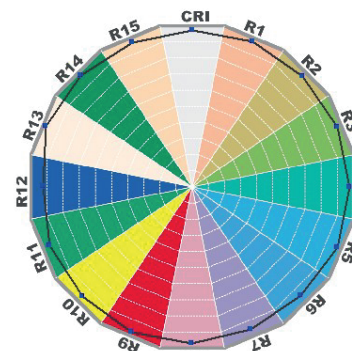
■ CRI: 98,41



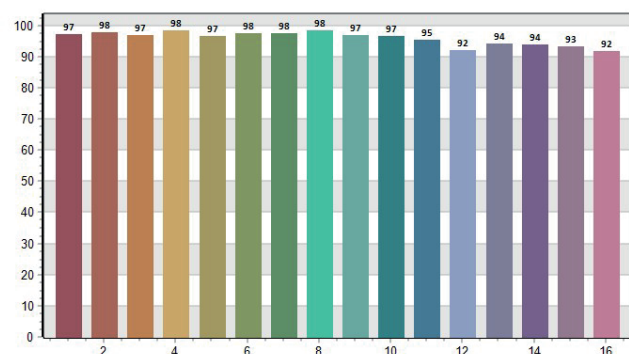
■ CQS: 97,16



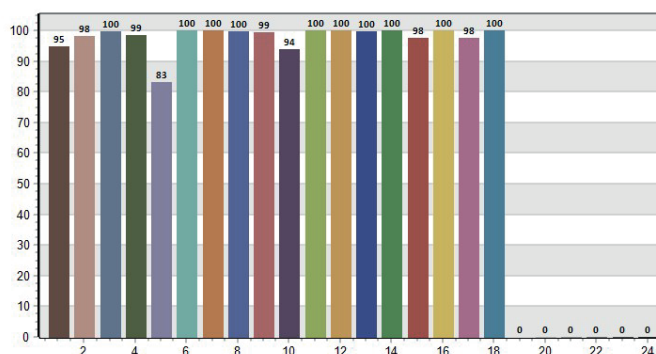
CRI-2



■ TM30: 96,62



■ TLCI: 95,86



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
99,1	98,7	98,8	99,1	99,2	96,8	97,3	98,3	99,2	97,8	96,8	93,7	99,6	98,9	98,6

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
97,2	97,8	97,0	98,4	96,7	97,6	97,5	98,4	96,9	96,7	95,3	92,1	94,1	93,7	93,4	91,8

CQS Q values

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

5600 K (calibrated macro) Spectrum Test Report

Slot #7

Medium @ 5m

UPRtek
United Power Research Technology Corporation

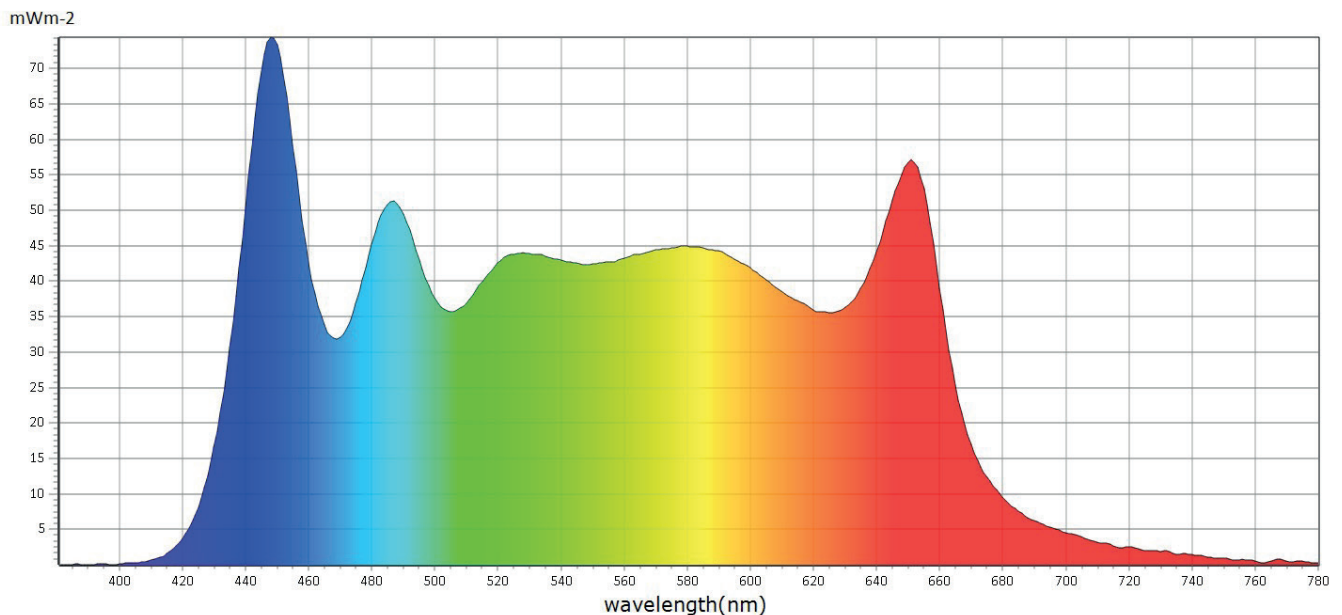
Information

User :	Measure Time :12:19:48
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
5600	

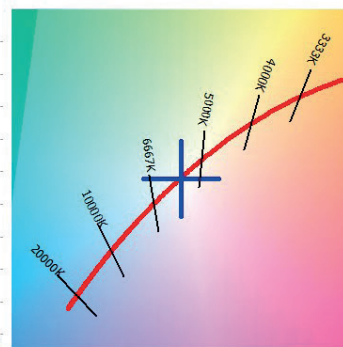
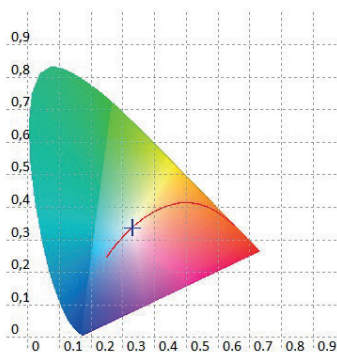
BASIC

CRI	: 97,5
x	: 0,3301
y	: 0,3377
CCT	: 5602
LUX	: 3088

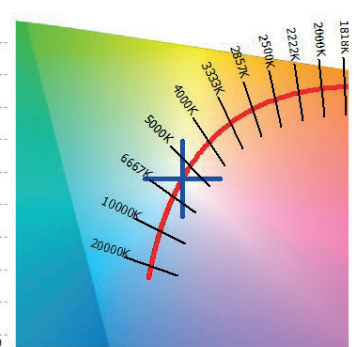
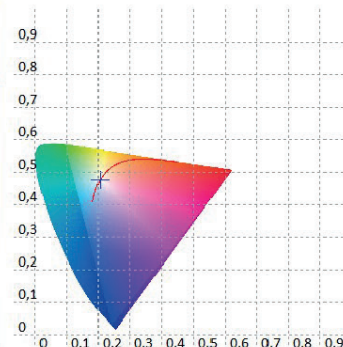
Spectrum



CIE1931



CIE1976



5600 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

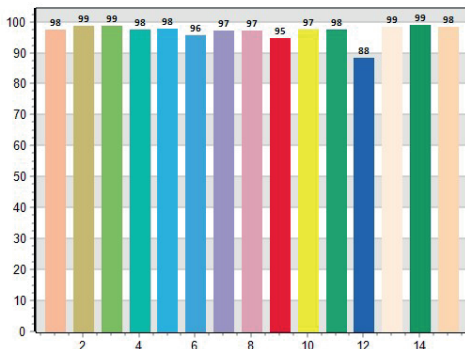
Information

User :	Measure Time :12:19:48
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
5600	

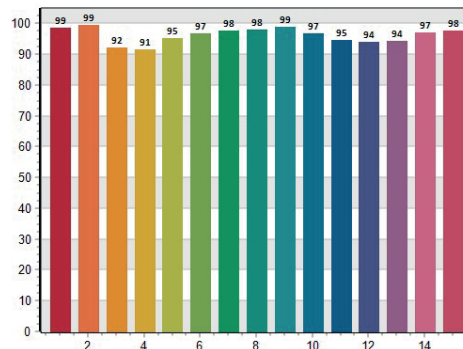
BASIC

CRI	: 97,5
X	: 0,3301
Y	: 0,3377
CCT	: 5602
LUX	: 3088

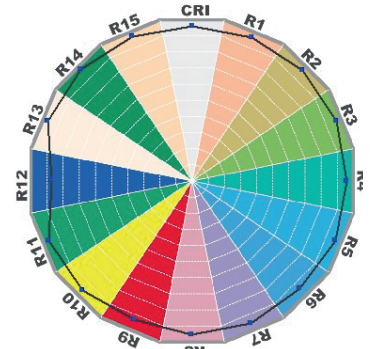
CRI: 97,49



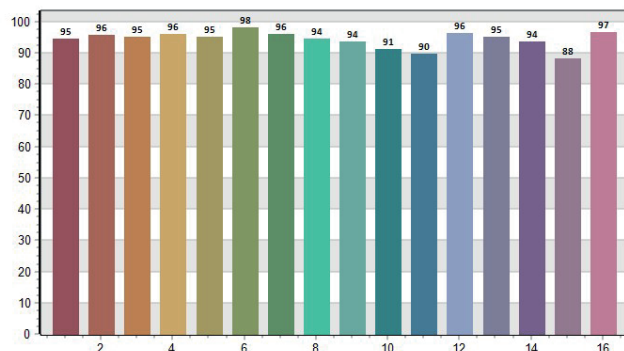
CQS: 95,47



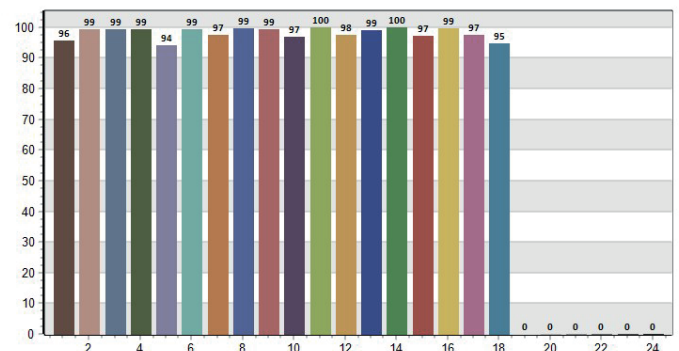
CRI-2



TM30: 94,94



TLCI: 97,57



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
97,6	98,7	98,6	97,6	97,8	95,6	97,1	97,0	94,6	97,4	97,5	88,2	98,5	99,0	98,3

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
94,6	95,7	95,2	96,2	95,3	98,1	96,0	94,5	93,7	91,3	89,8	96,3	95,2	93,6	88,2	96,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,6	99,4	92,2	91,4	95,1	96,8	97,7	98,1	98,8	96,7	94,7	93,9	94,1	96,9	97,7

6500 K (*calibrated macro*) Spectrum Test Report

Medium @ 5m

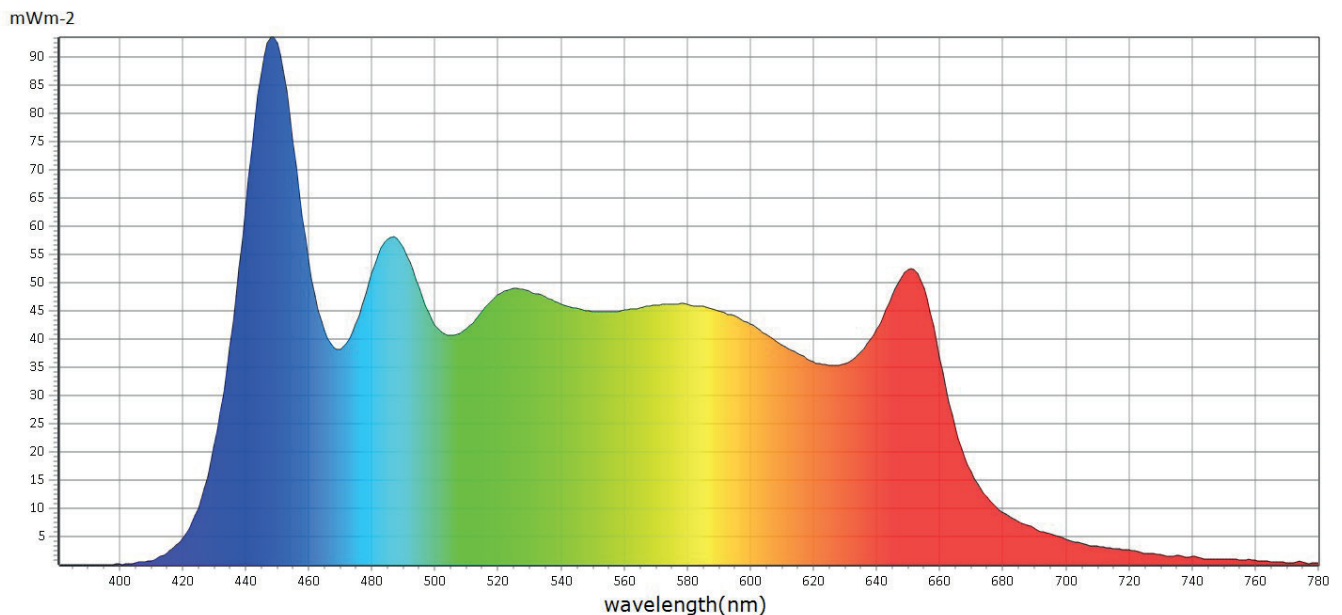
Information

User :	Measure Time :12:19:54
Model NO. : MK350S PREMIUM	Light Source :
Memo : 6500	

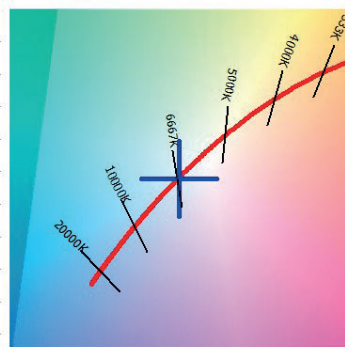
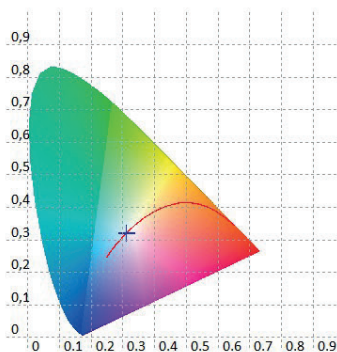
■ BASIC

CRI	: 97,6
x	: 0,3122
y	: 0,3211
CCT	: 6595
LUX	: 3267

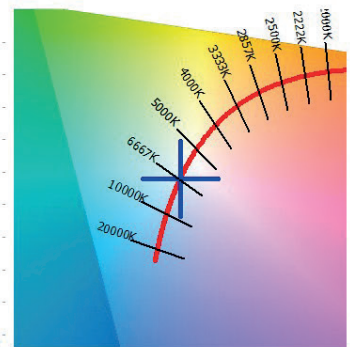
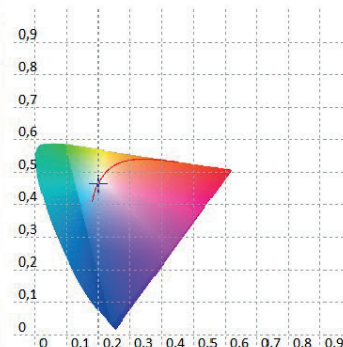
■ Spectrum



CIE1931



CIE1976



6500 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

Information

User :	Measure Time :12:19:54
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
6500	

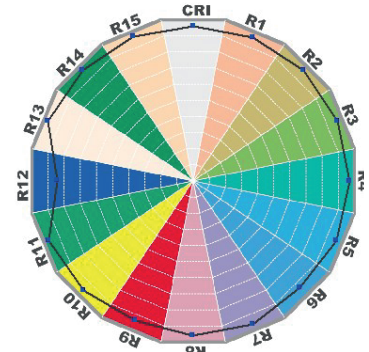
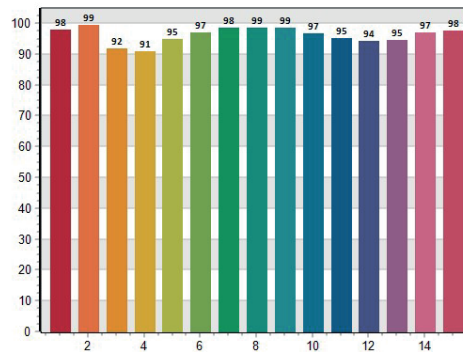
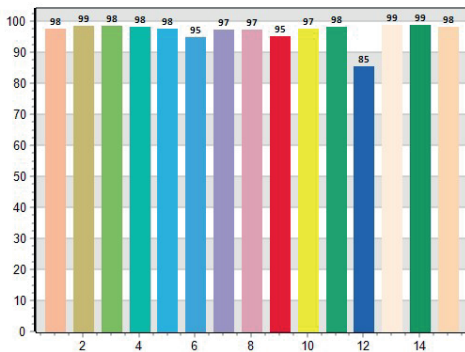
BASIC

CRI	: 97,6
X	: 0,3122
Y	: 0,3211
CCT	: 6595
LUX	: 3267

CRI: 97,58

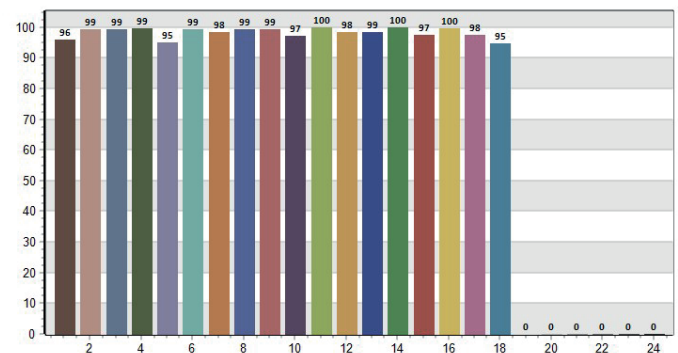
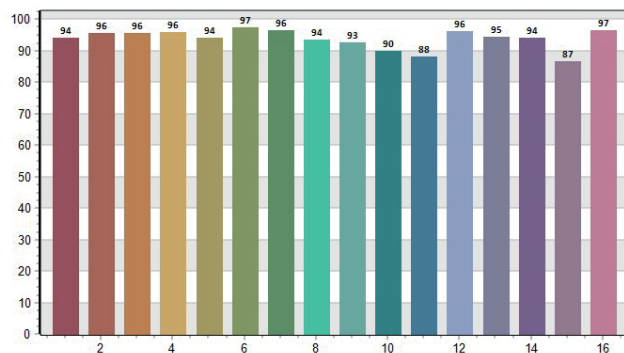
CQS: 95,44

CRI-2



TM30: 94,47

TLCI: 97,73



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	98,6	98,4	98,3	97,6	95,0	97,4	97,4	95,2	97,5	98,2	85,5	98,9	98,7	98,3

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
94,2	95,6	95,7	96,0	94,1	97,4	96,5	93,7	92,8	90,0	88,1	96,1	94,6	94,2	86,6	96,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,9	99,4	91,8	90,7	94,9	97,0	98,4	98,6	98,6	96,8	95,1	94,3	94,5	96,9	97,5

8000 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

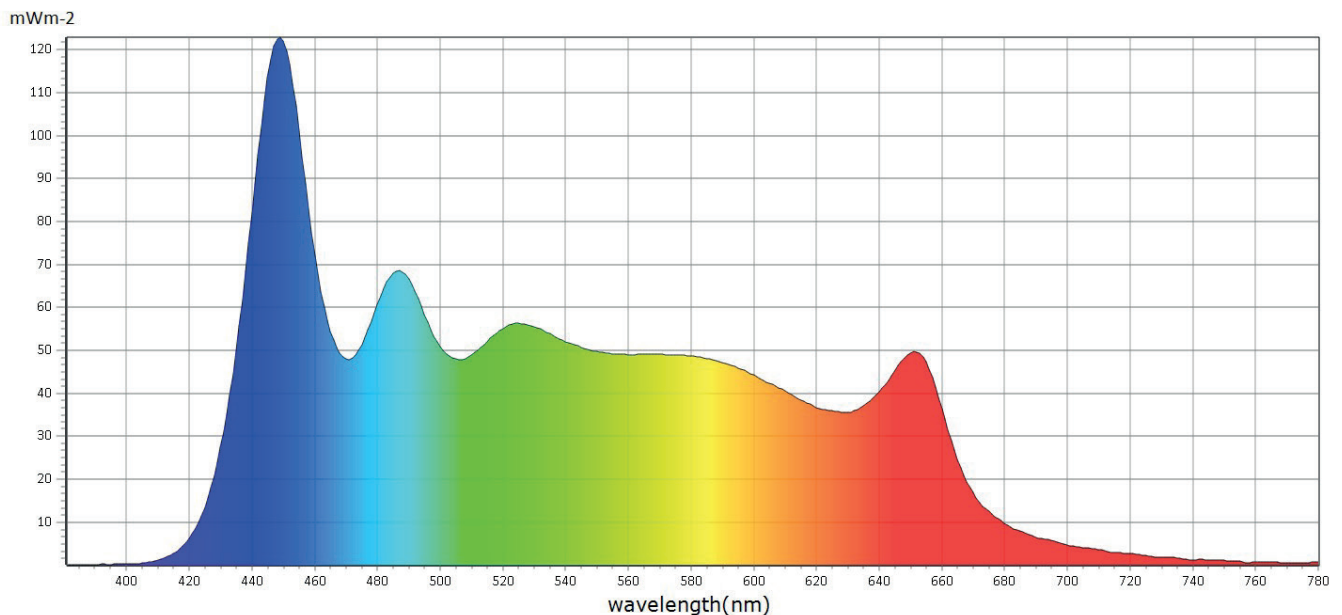
Information

User :	Measure Time :12:20:00
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
8000	

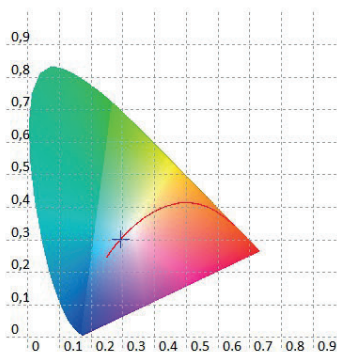
BASIC

CRI	: 97,3
x	: 0,2932
y	: 0,3022
CCT	: 8230
LUX	: 3582

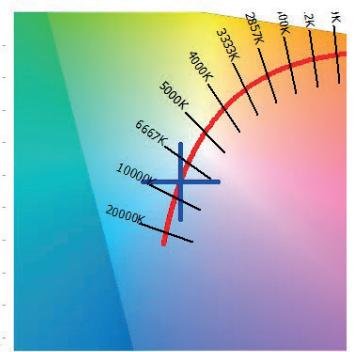
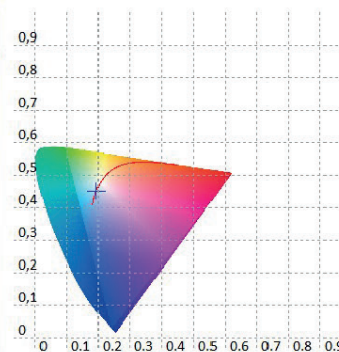
Spectrum



CIE1931



CIE1976



8000 K (calibrated macro) Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

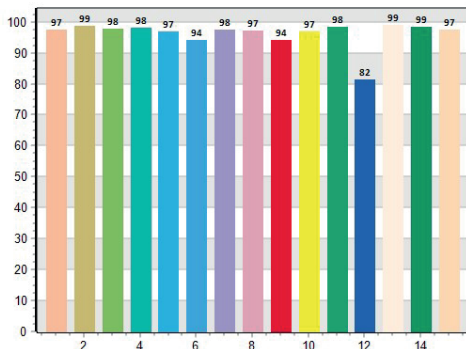
Information

User :	Measure Time :12:20:00
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
8000	

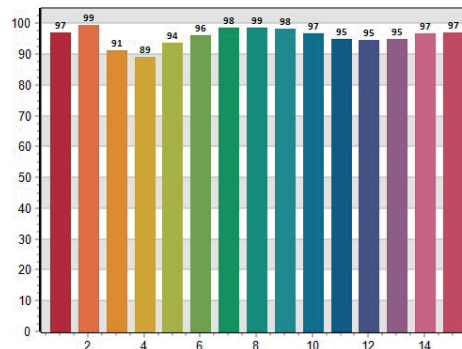
BASIC

CRI	: 97,3
X	: 0,2932
Y	: 0,3022
CCT	: 8230
LUX	: 3582

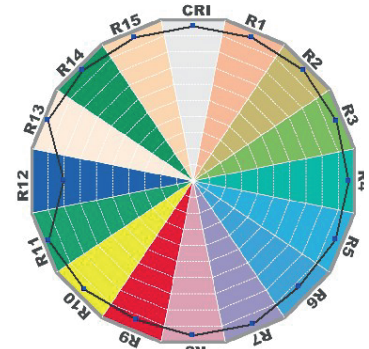
CRI: 97,26



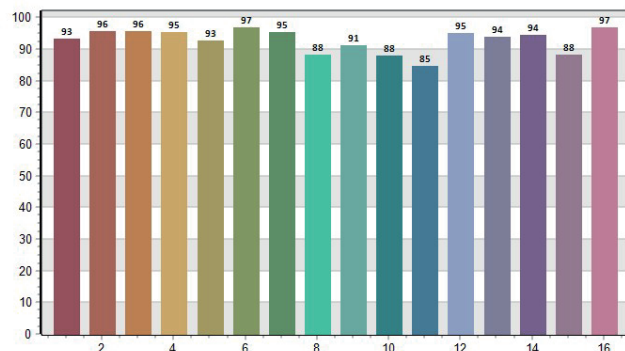
CQS: 94,94



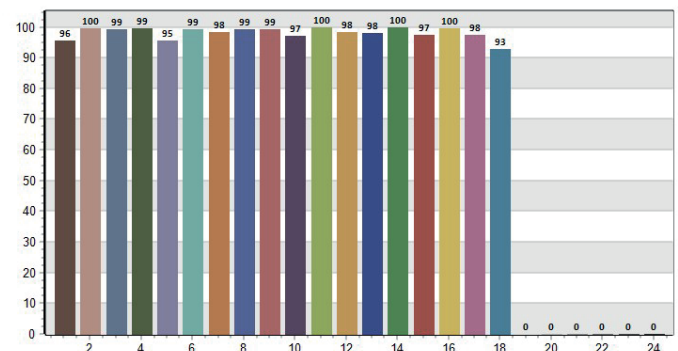
CRI-2



TM30: 93,58



TLCI: 97,56



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
97,4	98,6	97,8	98,2	96,9	94,1	97,6	97,3	94,2	96,8	98,3	81,5	99,0	98,5	97,4

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,4	95,6	95,5	95,3	92,7	96,8	95,3	88,3	91,1	88,1	84,7	94,9	93,7	94,4	88,3	96,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,9	99,5	91,1	89,1	93,7	96,1	98,4	98,7	98,3	96,6	95,0	94,5	94,7	96,6	97,1

Red @100% Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

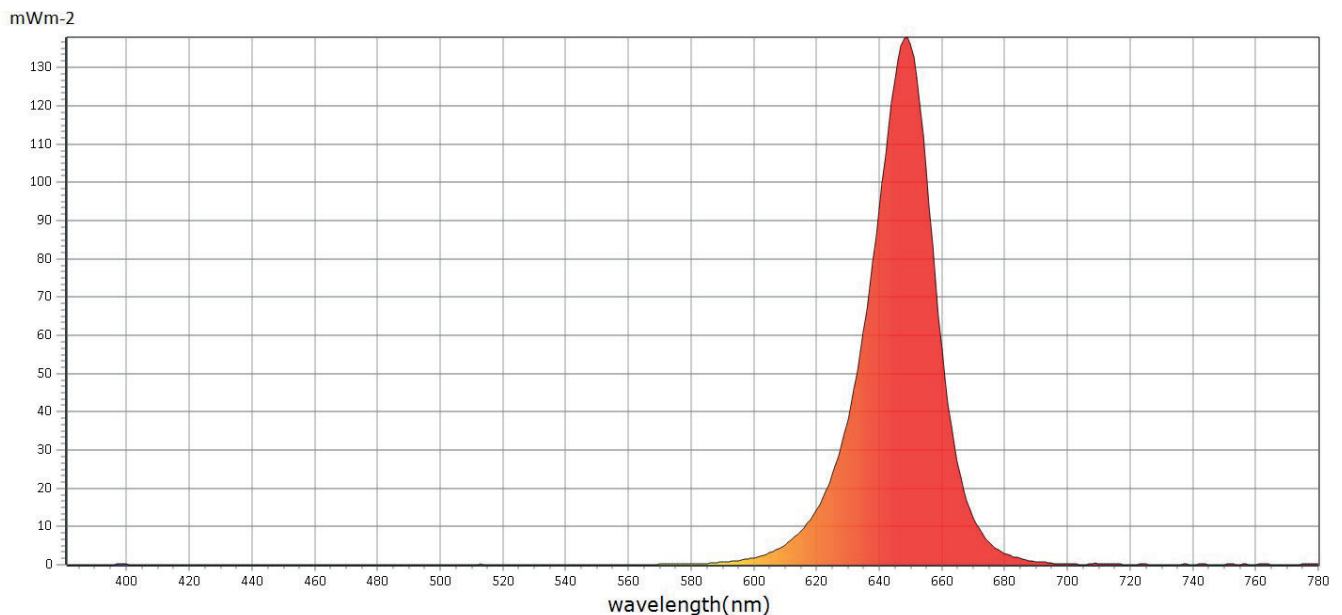
Information

User :	Measure Time :12:14:36
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
RED	

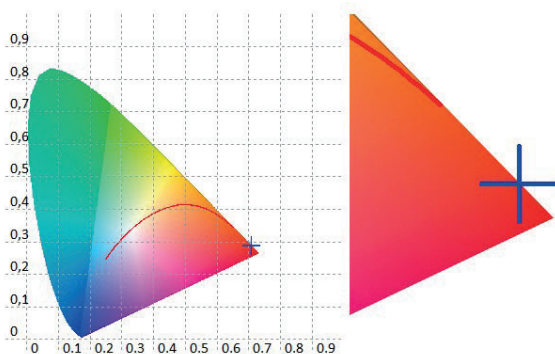
BASIC

CRI	: 0,0
x	: 0,7091
y	: 0,2891
CCT	: 0
LUX	: 393,9

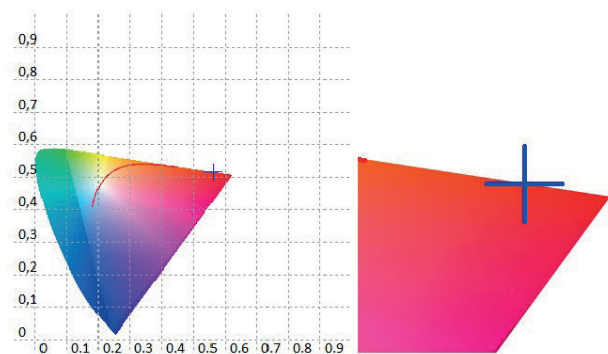
Spectrum



CIE1931



CIE1976



Green @100% Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

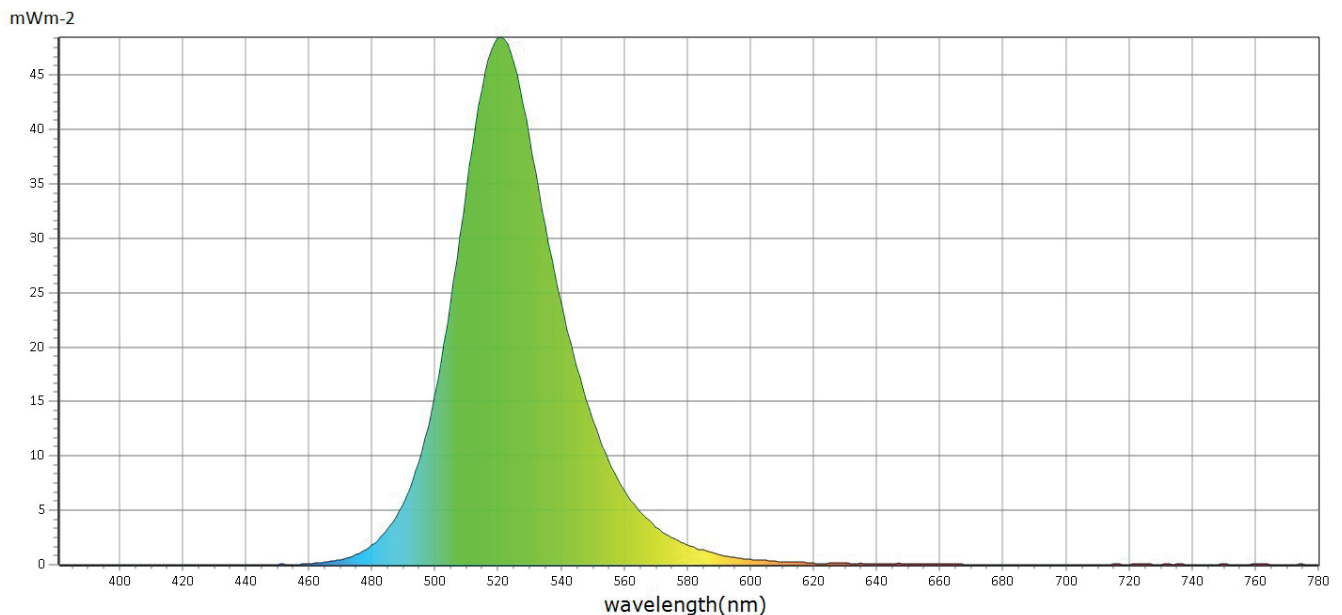
Information

User :	Measure Time :12:14:42
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
GREEN	

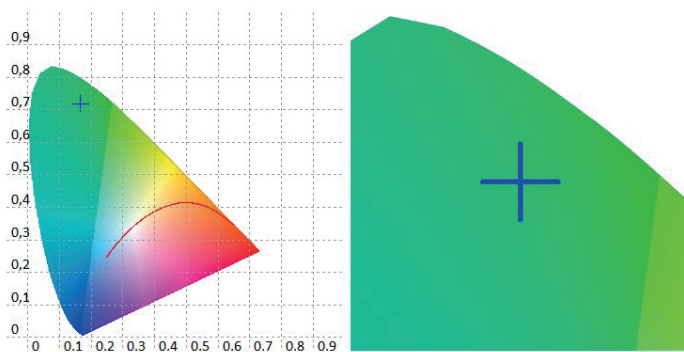
BASIC

CRI	: 0,0
x	: 0,1669
y	: 0,7194
CCT	: 7897
LUX	: 948,1

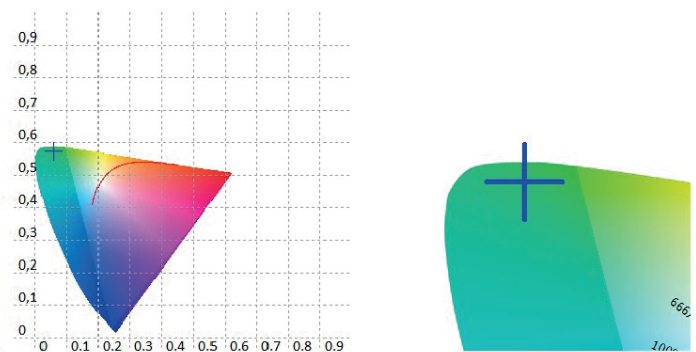
Spectrum



CIE1931



CIE1976



Blue @100% Spectrum Test Report

Medium @ 5m

UPRtek
United Power Research Technology Corporation

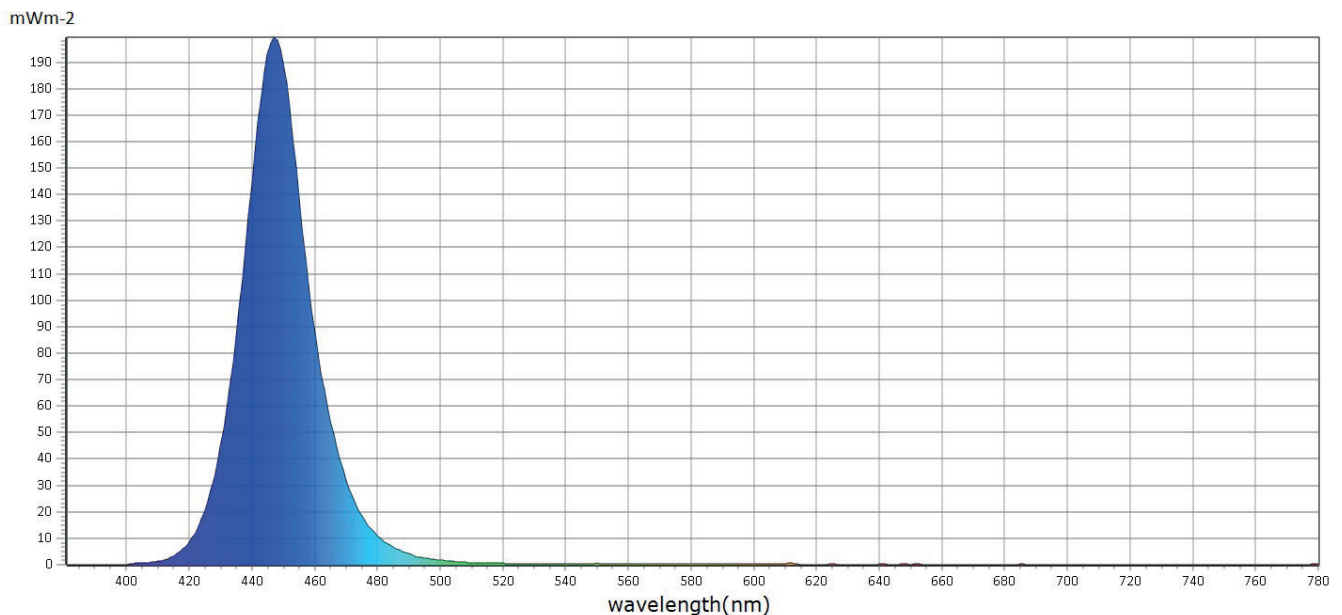
Information

User :	Measure Time :12:14:47
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
BLUE	

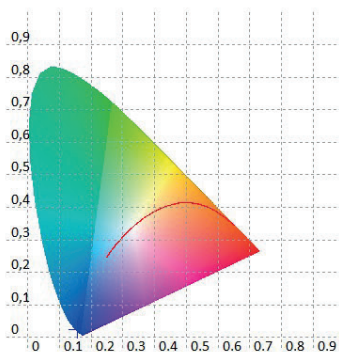
BASIC

CRI	: 0,0
x	: 0,1572
y	: 0,0237
CCT	: 0
LUX	: 169,1

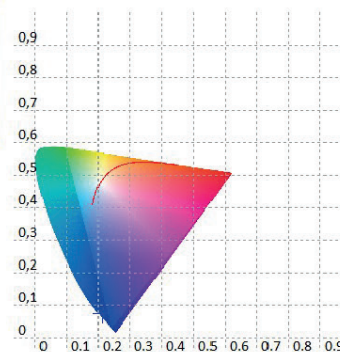
Spectrum



CIE1931



CIE1976



Amber @100% Spectrum Test Report

Medium@ 5m

UPRtek
United Power Research Technology Corporation

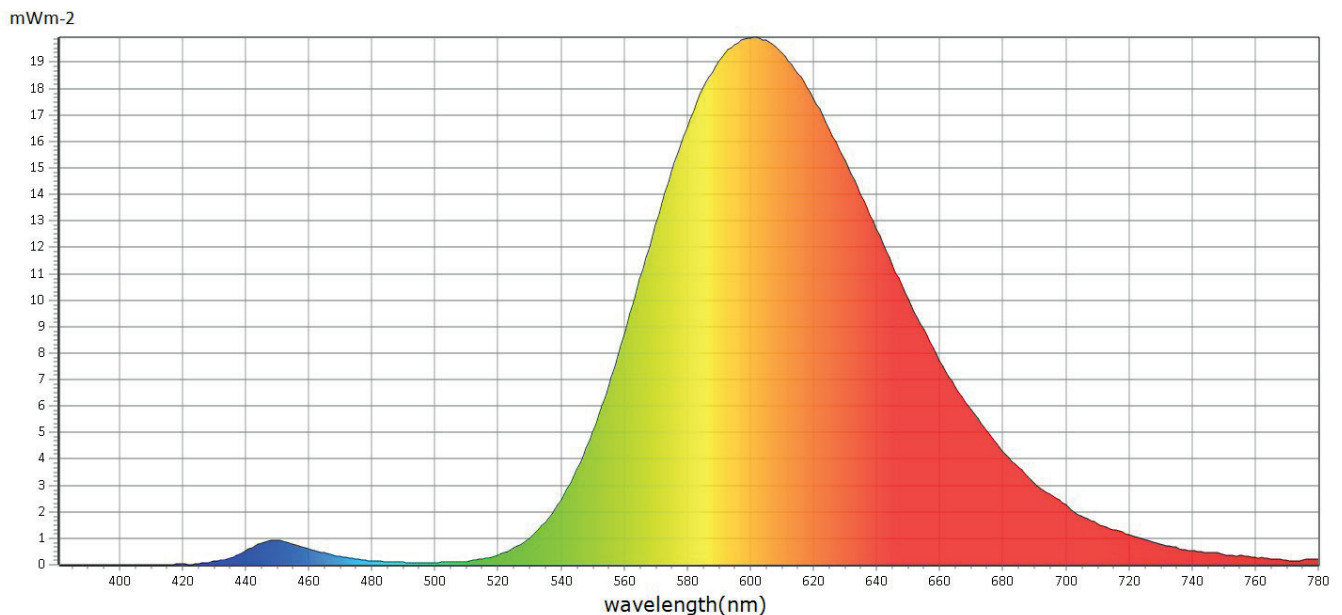
Information

User :	Measure Time :12:14:52
Model NO. : MK350S PREMIUM	Light Source :
Memo : AMBER	

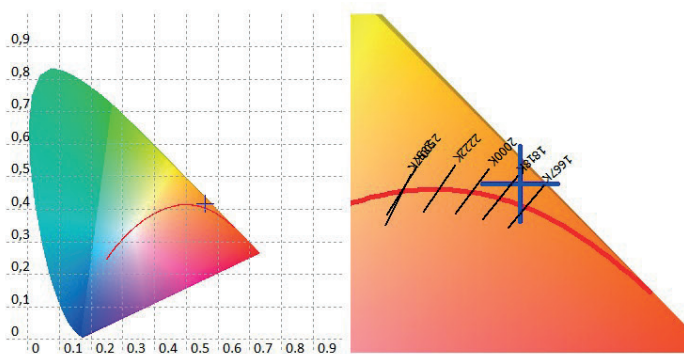
BASIC

CRI	: 43,7
x	: 0,5612
y	: 0,4186
CCT	: 1776
LUX	: 663,1

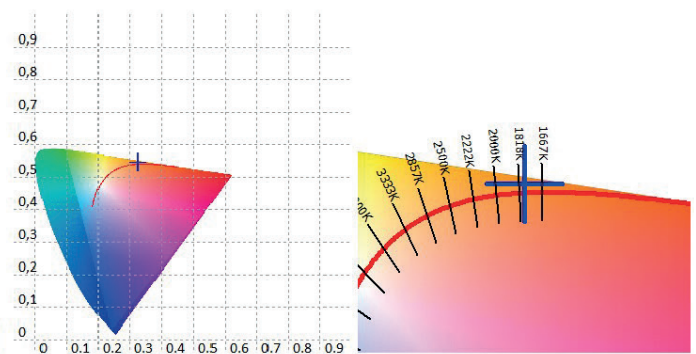
Spectrum



CIE1931



CIE1976



Lime @100% Spectrum Test Report

Medium@ 5m

UPRtek
United Power Research Technology Corporation

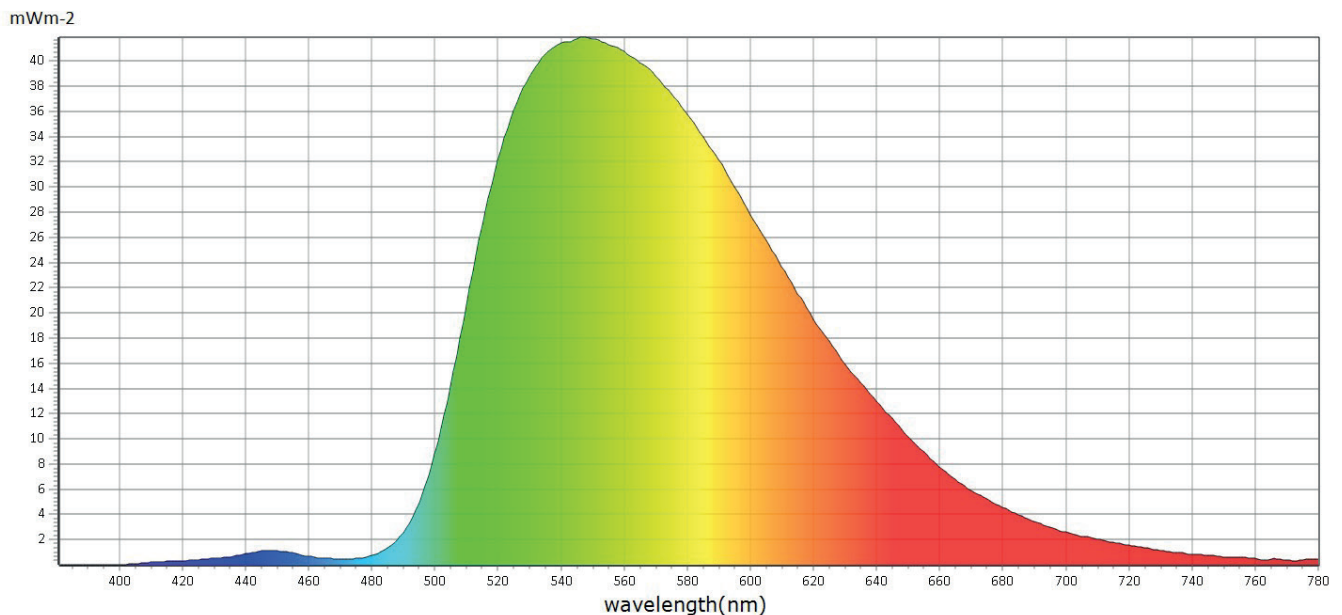
Information

User :	Measure Time :12:14:58
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
LIME	

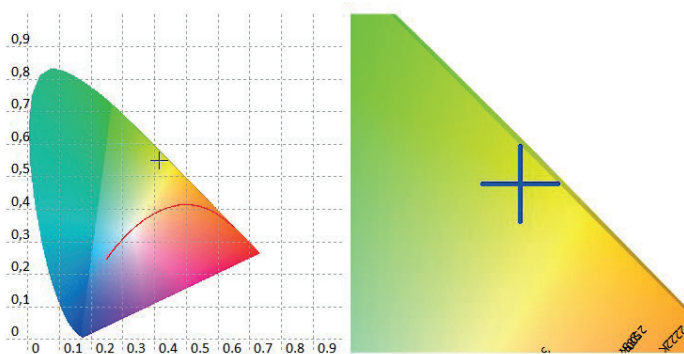
BASIC

CRI	: 41,4
x	: 0,4151
y	: 0,5512
CCT	: 4180
LUX	: 2253

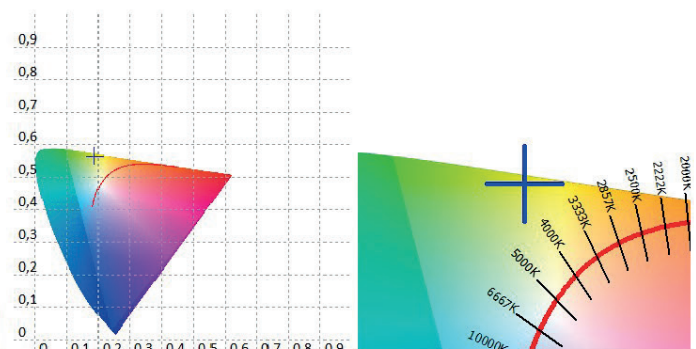
Spectrum



CIE1931



CIE1976



Cyan @100% Spectrum Test Report

Medium@ 5m

UPRtek
United Power Research Technology Corporation

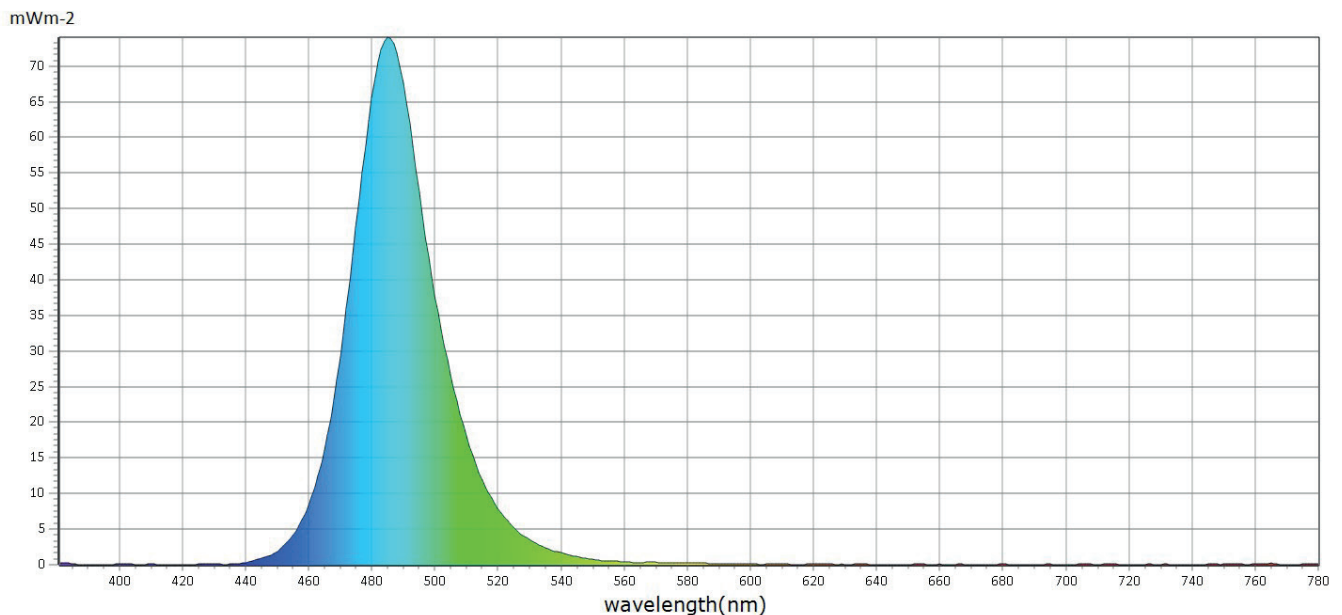
Information

User :	Measure Time :12:15:04
Model NO. : MK350S PREMIUM	Light Source :
Memo :	
CYAN	

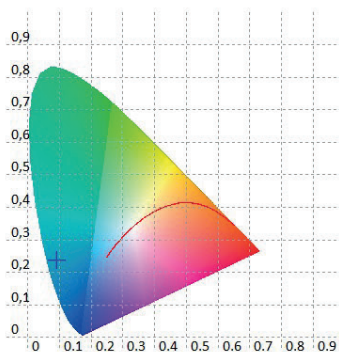
BASIC

CRI	: 0,0
x	: 0,0911
y	: 0,2392
CCT	: 0
LUX	: 393,8

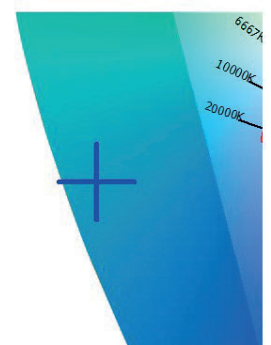
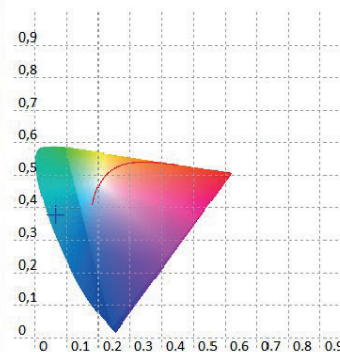
Spectrum



CIE1931

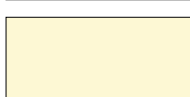
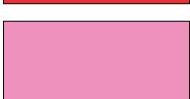
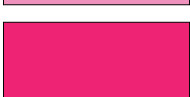
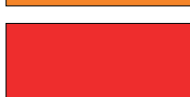


CIE1976



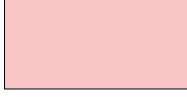
Virtual LEEFilters™ Database

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

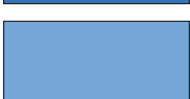
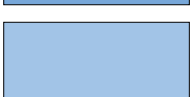
Virtual LEEFilters™ Database

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			

Starway

22 Rue Édouard Buffard
77144 Montevrain
France

starway.eu
