

# SULLY - 315LF 4C

315 - 4 COLOURS LED 200W



- **Type:** Single lens luminaire
- **Source:** 4 colours LED 200W
- **Optics:** 200 mm Fresnel lens

Single lens

## The multifunctional coloured LED spot

Providing a multi-faceted solution in a compact package, Sully 4C 315LF Fresnel combines a high-quality 200W 4-colour LED source with a single 200 mm Fresnel lens, which can be easily changed for a Pebble Convex lens. It offers broad coverage with even beam, for smooth matches between fixtures when installed side by side. Integrating an innovative software platform named RJ Color, its advanced setting modes ensure perfect whites and high quality saturated and pastel colours. In addition to low power consumption and low heat generation, Sully 4C 315LF delivers consistent colour rendition when dimming.

### Features

- **Light intensity:** 8 or 16 bit dimming and strobe function
- **Colour control:** CIE XY, Hue saturation, RGB (with choice of the colour space - Native / sRGB / REC.709 / REC.2020 / ProPhoto) or RAW modes
- **Calibrated white sources:** 3 white presets reproducing tungsten 3000 K or 3200 K lamps, or discharge 6500 K lamps
- **Colour Temperature adjustment (CCT):** white from 1700 to 10000 Kelvin with Delta UV control (+/- Green – Magenta)
- **Colour mixing optimization:** choice of High Quality or High Brightness mode
- **Colour filter simulation:** 300 colour filters included with transmission / saturation adjustment - Fade time and type adjustment between 2 colour filters for adjustable transition
- **DimShift function:** when dimming the light, the colours follow the Planck curve (tungsten redshift emulation) - Available on all sources (white presets, any CCT value) and all colour filters
- **1 parameter DMX mode:** filter or colour selection through local display and dimming control by DMX (8 or 16 bits)
- **Adjustable response time:** choice of fast or slow dimming for tungsten-like simulation - adjustment by DMX - 3 modes available: tungsten, linear and linear with flash detection
- **Theatre front cassette:** no light spill to distract audiences or performers
- **Accessories holder:** double runners to hold accessories and colour filters
- **Barn door:** unique rotating barn door with 4 individually rotating blades – makes even the most difficult angle possible
- **PWM adjustment:** choice of different PWM dimming frequencies
- **Local setup:** dMX address and mode, dimming curve and response time through 4-button display with automatic light switch-off
- **Dimming parameters:** choice of square, linear or tungsten dimming curves
- **Focus reference:** index for easy focus reference
- **Focus adjustment:** smooth focus adjustment from rear
- **Tilt reference on hanging yoke:** index for rapid re-positioning

### Optical

- **Long life:** outstanding operational lifetime expectation, no need to replace lamps, low maintenance
- **4-colour mixing LED system:** Red, Green, Blue, and Lime
- **Thermal management of each colour:** thanks to the thermal management algorithms, the colours you have set will stay the same during the performance
- **Factory calibrated source:** to ensure consistency between fixtures
- **Beam shaping :** efficient barndoors in any focus position
- **Electronic dimmer:** dimming without clipping or cut-out at low intensity levels; high quality smoothing

### Construction

- **Made in France :** fully manufactured in Robert Juliat premises retaining complete control over all aspects of quality
- **PSU:** built-in electronic flicker-free power supply for easy, plug-and-play installation
- **Power connectors:** neutriK® powerCON TRUE1 TOP IN and OUT connectors for daisy chaining
- **Silent-running cooling fans:** ideal for TV studios and opera houses
- **Electronic thermal management system:** ensures maximum performance of the system without any risk of overheating
- **3 cooling modes available:** includes silent mode for perfect integration in concert halls
- **Bodywork:** strong sheet metal construction for durability
- **Captive knobs and handles:** additional security when working at height or in transit
- **Easy access to all parts:** easy cleaning and maintenance

Picture:315LF 4C

DSEN408\_315LF\_4C - 02/10/2023

Robert Juliat reserves the right to change or alter any of the items detailed on this page, to increase or improve manufacturing techniques without prior notice.

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ROBERT JULIAT

**Source** (Light quality report(s) available at the end of the document)

- **Lamp type:** LED - 4 colours
- **Power:** 196 W
- **Lumen output:** 7730 lm
- **Life:** 36000 hours (L70B50)

Colours	Power *	Lumen output*
Red	57 W	1 540 lm
Green	40 W	2 000 lm
Blue	41 W	500 lm
Lime	58 W	3 690 lm

(\*) manufacturer's data

## Optics

### Characteristics

- **Type:** Single lens
- **Range:** 14° to 37° (Beam angle)
- **Lens:** 200 mm Fresnel lens

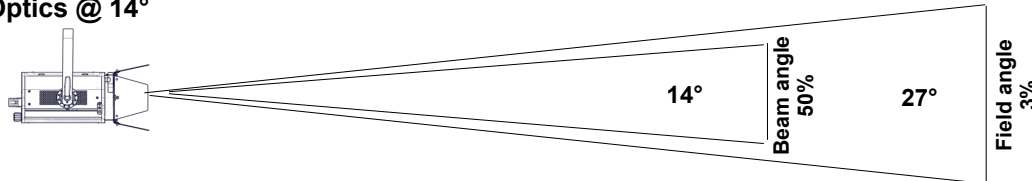
### Gel filter

- **Shape:** Square
- **Standard size:** 215x215 mm (8.5x8.5 in)

## Photometrics (Photometrics report(s) available at the end of the document)

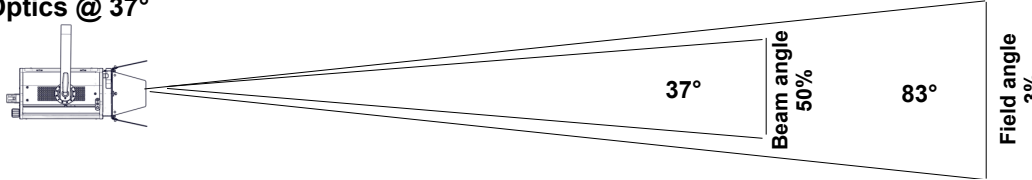
optics: 14°-37° / Standard / 3200 K / High Brightness

### • Optics @ 14°



<b>Distance</b>	3 m	5 m	7 m	10 m	12 m	15 m	<b>Beam intensity</b> 61 200 cd	
<b>Diameter</b>	1.4 m	2.4 m	3.4 m	4.8 m	5.8 m	7.2 m		<b>Field lumens</b> 3 450 lm
<b>Illumination</b>	6 900 lux	2 450 lux	1 250 lux	620 lux	430 lux	280 lux		
<b>Distance</b>	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft		
<b>Diameter</b>	4.8 ft	7.2 ft	12 ft	16.8 ft	19.2 ft	24 ft		
<b>Illumination</b>	620 fc	280 fc	100 fc	50 fc	39 fc	25 fc		

### • Optics @ 37°

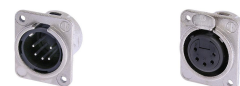


<b>Distance</b>	3 m	5 m	7 m	10 m	12 m	15 m	<b>Beam intensity</b> 32 900 cd	
<b>Diameter</b>	5.3 m	8.8 m	12.4 m	17.7 m	21.2 m	26.5 m		<b>Field lumens</b> 5 310 lm
<b>Illumination</b>	3 700 lux	1 350 lux	680 lux	330 lux	230 lux	150 lux		
<b>Distance</b>	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft		
<b>Diameter</b>	17.7 ft	26.5 ft	44.2 ft	61.9 ft	70.8 ft	88.5 ft		
<b>Illumination</b>	330 fc	150 fc	55 fc	27 fc	21 fc	14 fc		

## Remote control

- **Data protocol:** USITT DMX512-A  
RDM

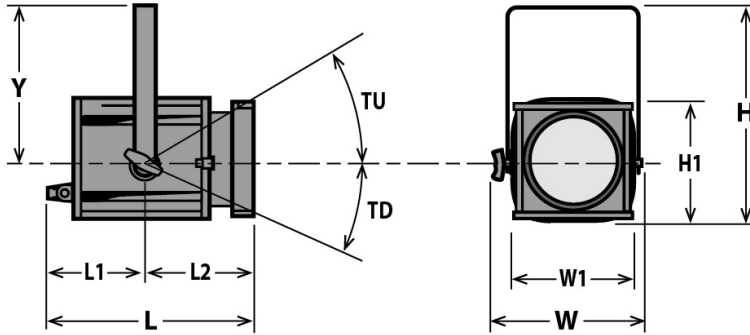
- **Data IN connector:** 5 pins XLR male
- **Data OUT connector:** 5 pins XLR female



### • DMX chart:

Mode 1 (1 channels)	Mode 2 (6 channels)	Mode 3 (20 channels)	Mode 4 (20 channels)	Mode 5 (22 channels)	Mode 6 (24 channels)
Dimmer	Dimmer Dimmer fine Strobe duration Strobe speed Response time Control mode	Dimmer @16b Strobe: duration + speed Response time Control mode Source type Filter + adjustments CCT + delta UV CIE XY Colour control @16b	Dimmer @16b Strobe: duration + speed Response time Control mode Source type Filter + adjustments CCT + delta UV Hue Saturation @16b	Dimmer @16b Strobe: duration + speed Response time Control mode Source type Filter + adjustments CCT + delta UV RGB colour control @16b	Dimmer @16b Strobe: duration + speed Response time Control mode Source type Filter + adjustments CCT + delta UV RGBL colour control @16b

## Dimensions and weight



**Weight:** 11 kg (24.2 lbs)

Height	Length	Width	Yoke	Tilt
H= 432 mm (17 in) H1= 258 mm (10.2 in)	L= 456 mm (18 in) L1= 253 mm (10 in) L2= 203 mm (8 in)	W= 342 mm (13.5 in) W1= 250 mm (9.8 in)	Y= 303 mm (11.9 in)	TU= TBD° TD= 90°

## Shipping

- **Weight :** 12.9 kg (28.4 lbs)
- **Volume :** .06 m<sup>3</sup> (2.26 ft<sup>3</sup>)

## Installation

- **Minimum distance to illuminated surface:** 0.1 m ( 0.3 ft )
- **Operating position:**



## Construction

- **Housing:** Steel sheet - Aluminium
- **Colour:** Black
- **Cooling:** Low noise variable fan
- **Maximum ambient temperature (Ta):** 40°C (104°F)
- **Maximum case temperature (Tc):** °C (°F)
- **Total heat dissipation:** 597 BTU/h
- **Ingress Protection (IP) rating:** IP20

## Electrical compatibility

- 220/230 V - 50 Hz
- 245 V - 50 Hz
- 110/120 V - 60 Hz
- 208 V - 60 Hz
- 220/230 V - 60 Hz
- 100 V - 50 Hz
- 100 V - 60 Hz
- Selector: automatic detection

## Power input



- **Type:** removable power cord with Neutrik powerCON TRUE1 TOP connector (included)
- **Cable:** H07RNF 3G1.5
- **Length:** 3 m (9.8 ft)
- **Power connector:** CEE 7/7 (2P+E NF/Schuko)

## Power consumption

Voltage	Frequency	Current	Power	Power factor
230 V	50 Hz	0.88 A	175 W	0.87
110 V	60 Hz	1.67 A	178 W	0.98
100 V	60 Hz	1.82 A	178 W	0.99

## Power Supply Unit

- **PSU:** Internal - Electronic PSU - Flicker free with PFC
- **Control:** / DMX
- **Protection:** Mains: 2x 6.3A 5x20 T fuses /
- **Power thru:** Neutrik powerCON TRUE1 TOP - Maximum of 11 units (230 V) / 8 units (120 V)

## Warranty

- **Fixture: 3 years**  
See General Sales Condition on website

## Approvals




## Acoustics

- **Noise level:** < 25,3 dB(A)



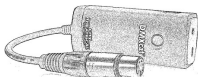




## Model

<b>315LF 4C</b>	4 colours LED 200W Single lens luminaire - 200mm Fresnel - 315LF 4C Sully
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## Options

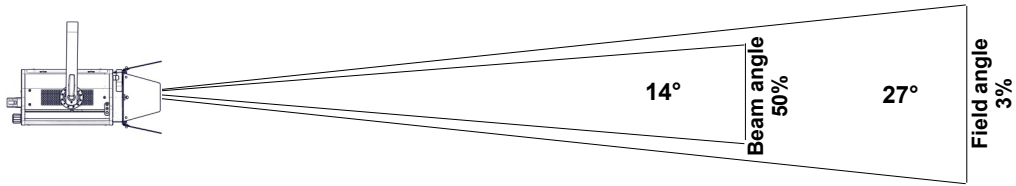
<b>PCP1716A</b>	16A blue 2P+E 6h IEC60309 power connector	
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## Accessories

<b>PF1000M2</b>	215x215mm metal filter holder <b>1 included</b>	
<b>CF1000</b>	4 rotating leaves on a rotating barndoor - 215x215mm ( without safety cable) - Poids: 1.03 Kg	
<b>DMXcat</b>	Bluetooth DMX/RDM Multifunction test tool - City Theatrical DMXcat®	
<b>876</b>	Hook clamp 40x10mm with 28mm M10 screw for Ø35 to 50mm pipes - SWL: 50Kg - Poids: 1.25 Kg	
<b>880</b>	Hook clamp 40x10mm with 28mm M10 screw for Ø50 to 63mm pipes - SWL: 50Kg - Poids: 1.36 Kg	
<b>CS2</b>	Safety cable Ø3 mm L= 600mm - SWL: 75 Kg	
<b>CS5</b>	Safety cable Ø1,5 mm L=300mm for front accessory with karabiner and quick link - SWL: 25 Kg	

• Optics @ 14°

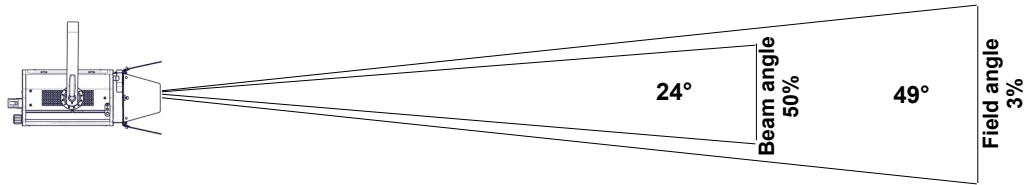
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
3 450 Lm		21 Lm/W	61 200 Cd	3 410 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	1,4 m	2,4 m	3,4 m	4,8 m	5,8 m	7,2 m
Illumination	6 900 lux	2 450 lux	1 250 lux	620 lux	430 lux	280 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	4,8 ft	7,2 ft	12 ft	16,8 ft	19,2 ft	24 ft
Illumination	620 fc	280 fc	100 fc	50 fc	39 fc	25 fc

• Optics @ 24°

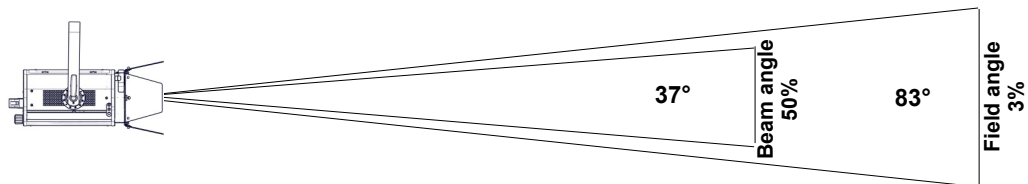
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
3 930 Lm		24 Lm/W	55 400 Cd	3 450 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	2,7 m	4,6 m	6,4 m	9,1 m	10,9 m	13,7 m
Illumination	6 200 lux	2 250 lux	1 150 lux	560 lux	390 lux	250 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	9,1 ft	13,7 ft	22,8 ft	31,9 ft	36,5 ft	45,6 ft
Illumination	560 fc	250 fc	90 fc	46 fc	35 fc	23 fc

• Optics @ 37°

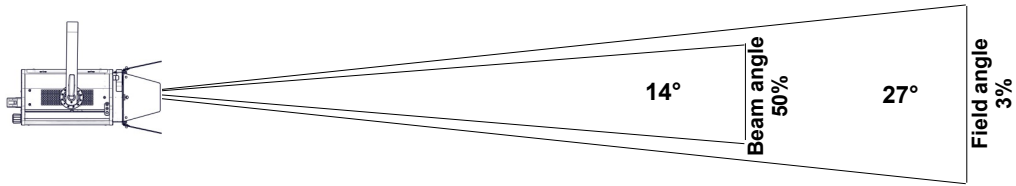
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
5 310 Lm		32 Lm/W	32 900 Cd	3 410 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	5,3 m	8,8 m	12,4 m	17,7 m	21,2 m	26,5 m
Illumination	3 700 lux	1 350 lux	680 lux	330 lux	230 lux	150 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	17,7 ft	26,5 ft	44,2 ft	61,9 ft	70,8 ft	88,5 ft
Illumination	330 fc	150 fc	55 fc	27 fc	21 fc	14 fc

• Optics @ 14°

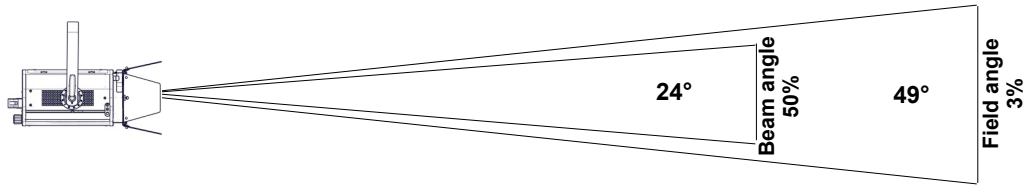
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
3 320 Lm		21 Lm/W	59 200 Cd	3 220 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	1,4 m	2,4 m	3,4 m	4,8 m	5,8 m	7,2 m
Illumination	6 600 lux	2 400 lux	1 250 lux	600 lux	420 lux	270 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	4,8 ft	7,2 ft	12 ft	16,8 ft	19,2 ft	24 ft
Illumination	600 fc	270 fc	95 fc	49 fc	38 fc	24 fc

• Optics @ 24°

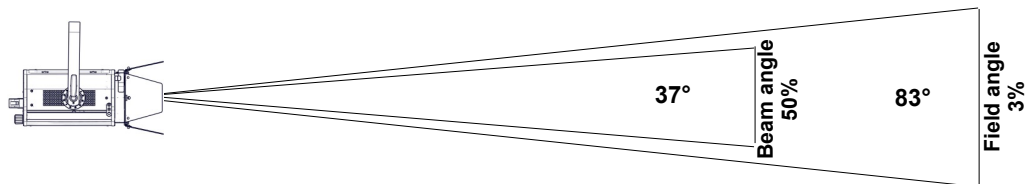
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
3 220 Lm		25 Lm/W	55 100 Cd	3 220 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	2,7 m	4,6 m	6,4 m	9,1 m	10,9 m	13,7 m
Illumination	6 200 lux	2 250 lux	1 150 lux	560 lux	390 lux	250 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	9,1 ft	13,7 ft	22,8 ft	31,9 ft	36,5 ft	45,6 ft
Illumination	560 fc	250 fc	90 fc	45 fc	35 fc	23 fc

• Optics @ 37°

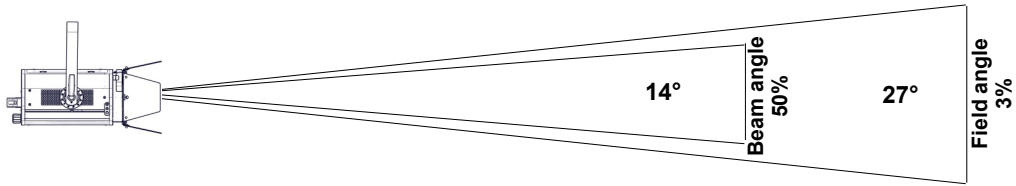
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
3 200 Lm		32 Lm/W	32 600 Cd	3 200 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	5,3 m	8,8 m	12,4 m	17,7 m	21,2 m	26,5 m
Illumination	3 650 lux	1 350 lux	670 lux	330 lux	230 lux	150 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	17,7 ft	26,5 ft	44,2 ft	61,9 ft	70,8 ft	88,5 ft
Illumination	330 fc	150 fc	55 fc	27 fc	21 fc	14 fc

• Optics @ 14°

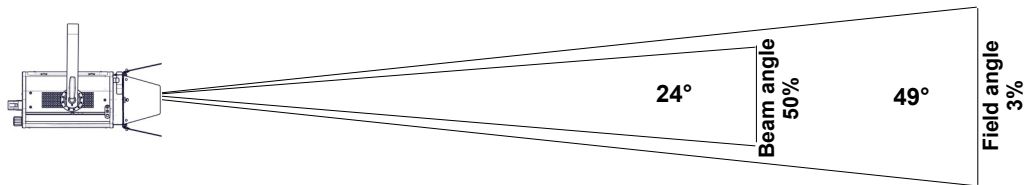
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
3 380 Lm		20 Lm/W	60 400 Cd	6 280 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	1,4 m	2,4 m	3,4 m	4,8 m	5,8 m	7,2 m
Illumination	6 800 lux	2 450 lux	1 250 lux	610 lux	420 lux	270 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	4,8 ft	7,2 ft	12 ft	16,8 ft	19,2 ft	24 ft
Illumination	610 fc	270 fc	100 fc	50 fc	38 fc	25 fc

• Optics @ 24°

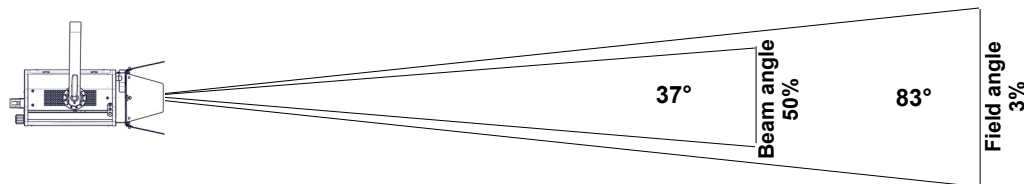
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
3 830 Lm		23 Lm/W	54 900 Cd	6 270 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	2,7 m	4,6 m	6,4 m	9,1 m	10,9 m	13,7 m
Illumination	6 200 lux	2 200 lux	1 150 lux	550 lux	390 lux	250 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	9,1 ft	13,7 ft	22,8 ft	31,9 ft	36,5 ft	45,6 ft
Illumination	550 fc	250 fc	90 fc	45 fc	35 fc	22 fc

• Optics @ 37°

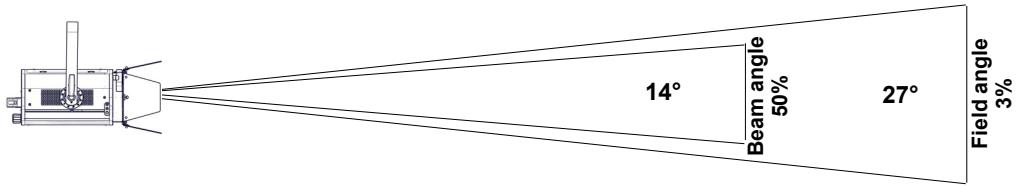
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
5 290 Lm		32 Lm/W	32 800 Cd	6 360 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	5,3 m	8,8 m	12,4 m	17,7 m	21,2 m	26,5 m
Illumination	3 650 lux	1 350 lux	670 lux	330 lux	230 lux	150 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	17,7 ft	26,5 ft	44,2 ft	61,9 ft	70,8 ft	88,5 ft
Illumination	330 fc	150 fc	55 fc	27 fc	21 fc	14 fc

• Optics @ 14°

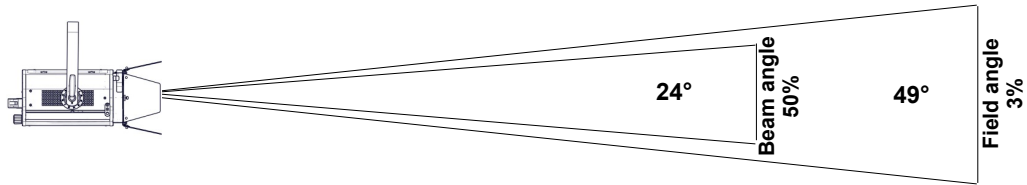
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
2 380 Lm		25 Lm/W	43 200 Cd	3 260 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	1,4 m	2,4 m	3,4 m	4,8 m	5,8 m	7,2 m
Illumination	4 850 lux	1 750 lux	890 lux	440 lux	310 lux	200 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	4,8 ft	7,2 ft	12 ft	16,8 ft	19,2 ft	24 ft
Illumination	440 fc	200 fc	70 fc	36 fc	28 fc	18 fc

• Optics @ 24°

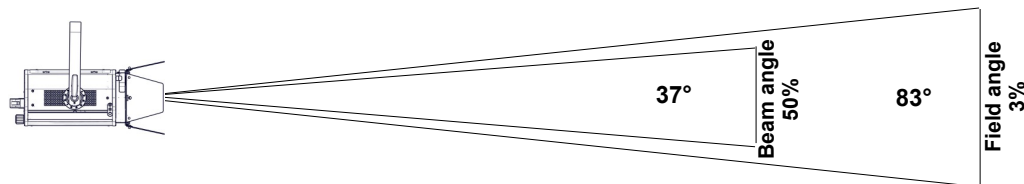
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
2 660 Lm		27 Lm/W	37 600 Cd	3 260 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	2,7 m	4,6 m	6,4 m	9,1 m	10,9 m	13,7 m
Illumination	4 200 lux	1 550 lux	770 lux	380 lux	270 lux	170 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	9,1 ft	13,7 ft	22,8 ft	31,9 ft	36,5 ft	45,6 ft
Illumination	380 fc	170 fc	65 fc	31 fc	24 fc	16 fc

• Optics @ 37°

Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
3 600 Lm		37 Lm/W	22 200 Cd	3 300 K	

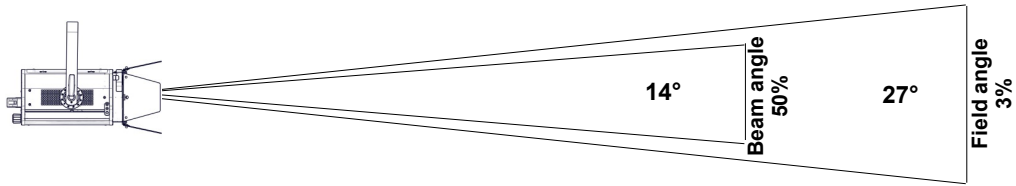


Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	5,3 m	8,8 m	12,4 m	17,7 m	21,2 m	26,5 m
Illumination	2 500 lux	890 lux	460 lux	230 lux	160 lux	100 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	17,7 ft	26,5 ft	44,2 ft	61,9 ft	70,8 ft	88,5 ft
Illumination	230 fc	100 fc	36 fc	19 fc	14 fc	9 fc



• Optics @ 14°

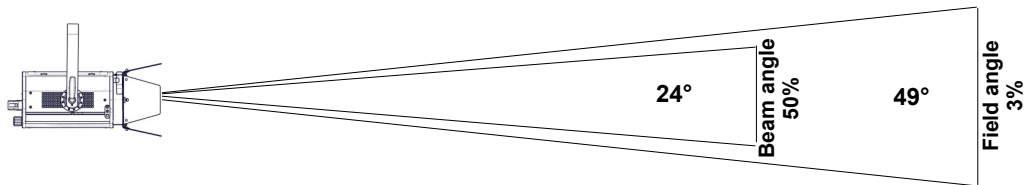
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
2 350 Lm		24 Lm/W	42 500 Cd	3 070 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	1,4 m	2,4 m	3,4 m	4,8 m	5,8 m	7,2 m
Illumination	4 750 lux	1 750 lux	870 lux	430 lux	300 lux	190 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	4,8 ft	7,2 ft	12 ft	16,8 ft	19,2 ft	24 ft
Illumination	430 fc	190 fc	70 fc	35 fc	27 fc	18 fc

• Optics @ 24°

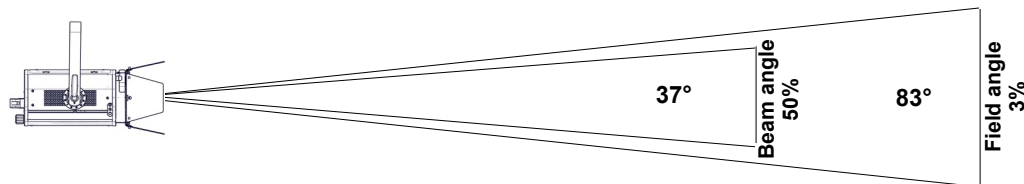
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
2 670 Lm		27 Lm/W	38 000 Cd	3 070 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	2,7 m	4,6 m	6,4 m	9,1 m	10,9 m	13,7 m
Illumination	4 250 lux	1 550 lux	780 lux	390 lux	270 lux	170 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	9,1 ft	13,7 ft	22,8 ft	31,9 ft	36,5 ft	45,6 ft
Illumination	390 fc	170 fc	65 fc	32 fc	24 fc	16 fc

• Optics @ 37°

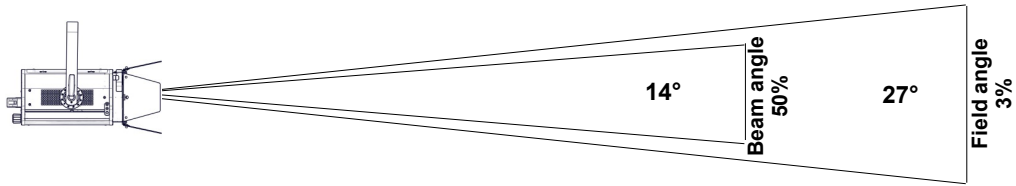
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
3 630 Lm		37 Lm/W	22 500 Cd	3 120 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	5,3 m	8,8 m	12,4 m	17,7 m	21,2 m	26,5 m
Illumination	2 550 lux	910 lux	460 lux	230 lux	160 lux	105 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	17,7 ft	26,5 ft	44,2 ft	61,9 ft	70,8 ft	88,5 ft
Illumination	230 fc	105 fc	37 fc	19 fc	15 fc	10 fc

• Optics @ 14°

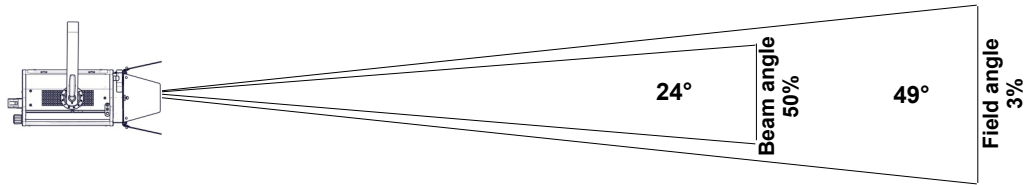
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
2 320 Lm		21 Lm/W	42 600 Cd	6 280 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	1,4 m	2,4 m	3,4 m	4,8 m	5,8 m	7,2 m
Illumination	4 750 lux	1 750 lux	870 lux	430 lux	300 lux	190 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	4,8 ft	7,2 ft	12 ft	16,8 ft	19,2 ft	24 ft
Illumination	430 fc	190 fc	70 fc	35 fc	27 fc	18 fc

• Optics @ 24°

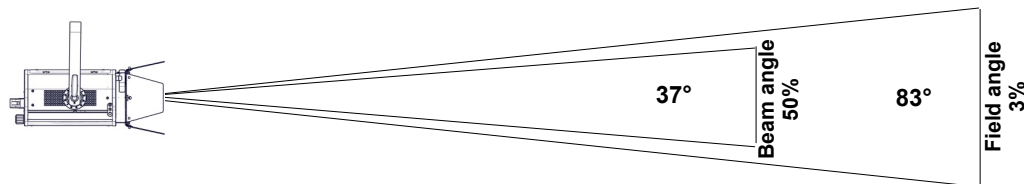
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
2 680 Lm		25 Lm/W	37 700 Cd	6 350 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	2,7 m	4,6 m	6,4 m	9,1 m	10,9 m	13,7 m
Illumination	4 200 lux	1 550 lux	770 lux	380 lux	270 lux	170 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	9,1 ft	13,7 ft	22,8 ft	31,9 ft	36,5 ft	45,6 ft
Illumination	380 fc	170 fc	65 fc	31 fc	24 fc	16 fc

• Optics @ 37°

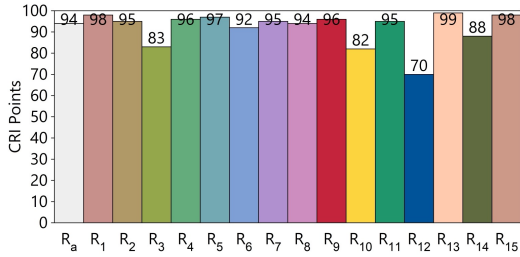
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
3 680 Lm		34 Lm/W	22 700 Cd	6 420 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	5,3 m	8,8 m	12,4 m	17,7 m	21,2 m	26,5 m
Illumination	2 550 lux	910 lux	470 lux	230 lux	160 lux	110 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	17,7 ft	26,5 ft	44,2 ft	61,9 ft	70,8 ft	88,5 ft
Illumination	230 fc	110 fc	37 fc	19 fc	15 fc	10 fc

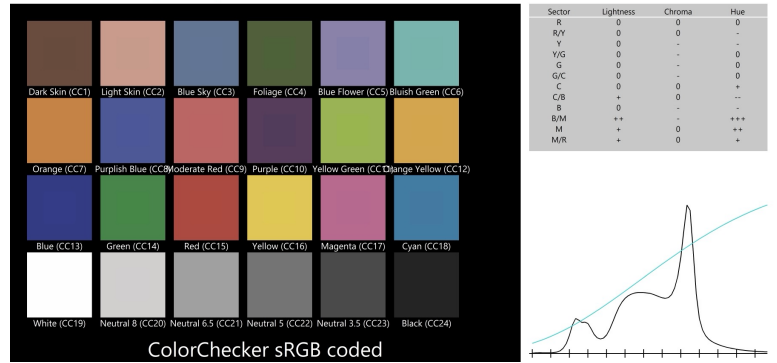
CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [3070]
3 070K	0.0021	94	96	93	91	103	88	69

CRI - CIE Colour Rendering Index

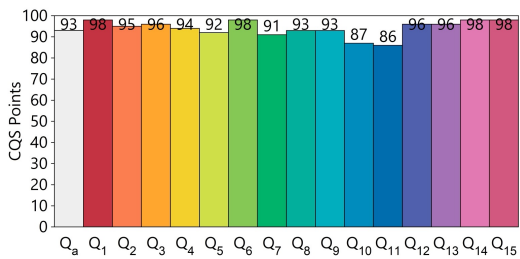


TLCI - Television Lighting Consistency Index

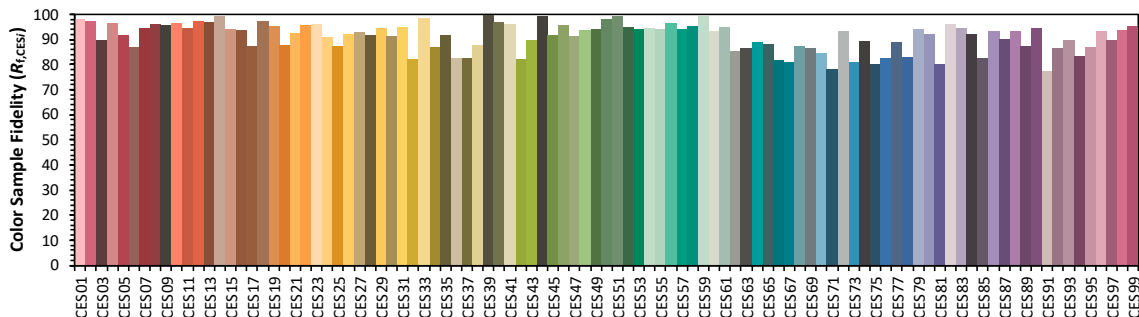
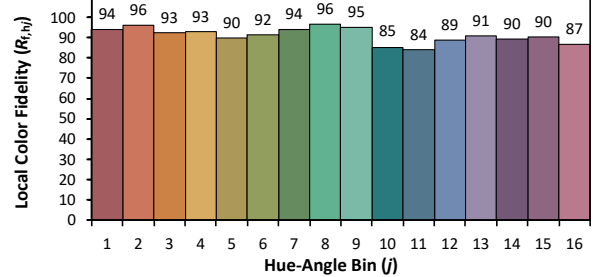
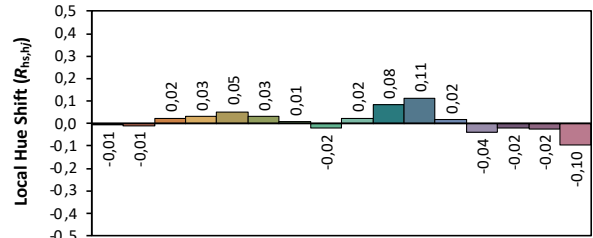
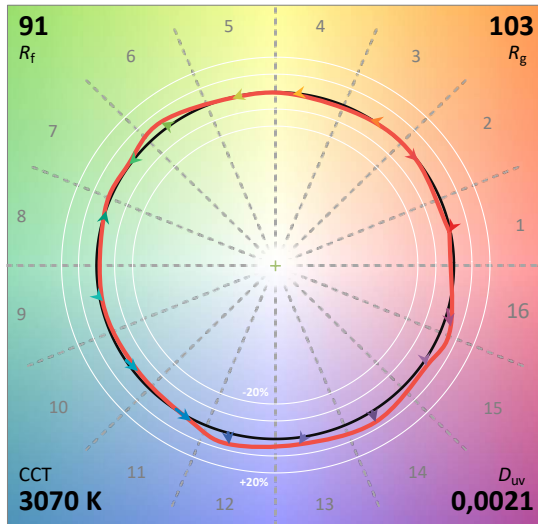
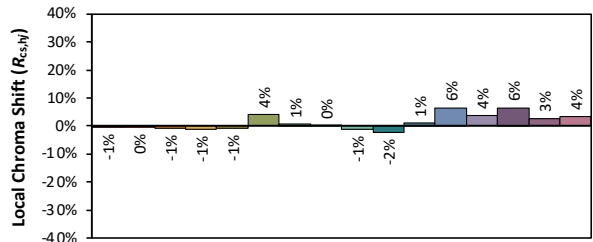
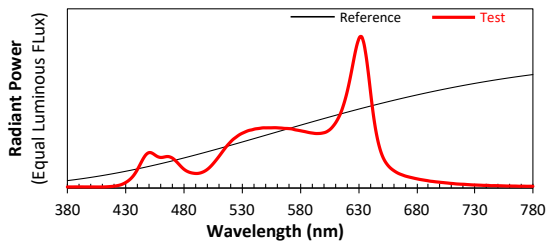
Test : CCT = P3070 (+0.4)  
 TLCI-2012 : 88 (P3070)



CQS - NIST Colour Quality Scale

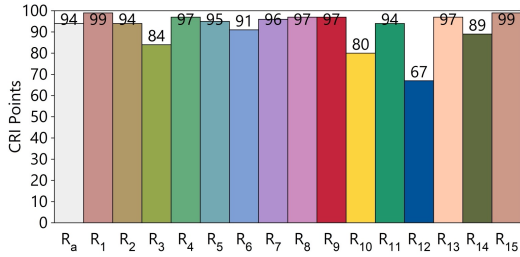


ANSI/IES TM-30-18 Colour Rendition Report



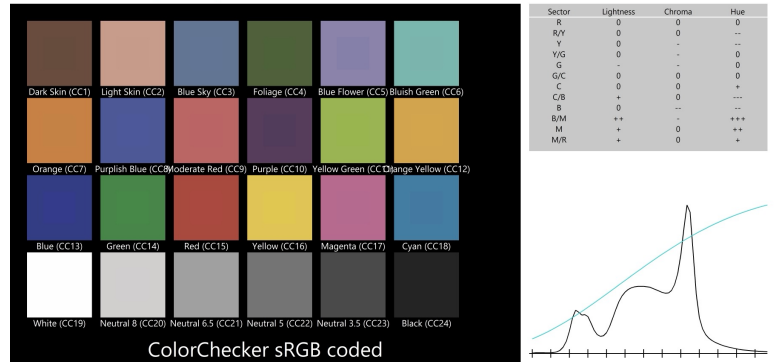
CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [3264]
3 270K	0.0023	94	97	92	91	102	87	69

CRI - CIE Colour Rendering Index

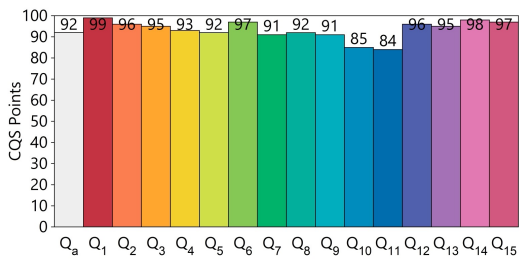


TLCI - Television Lighting Consistency Index

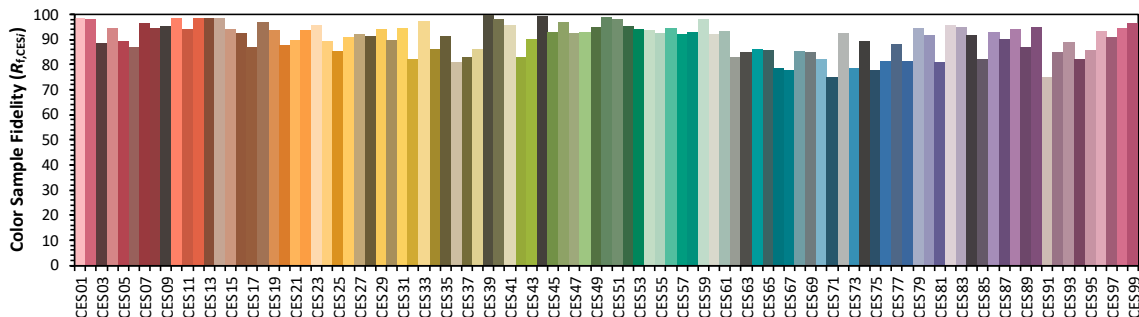
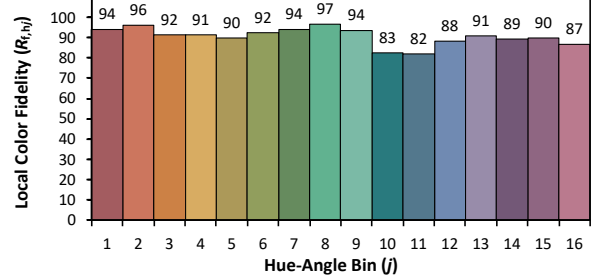
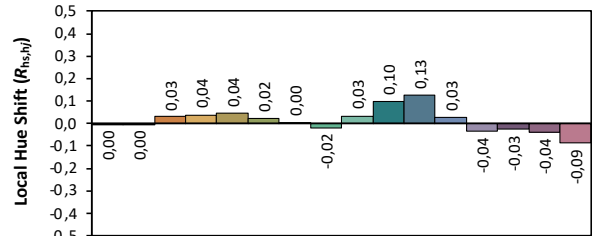
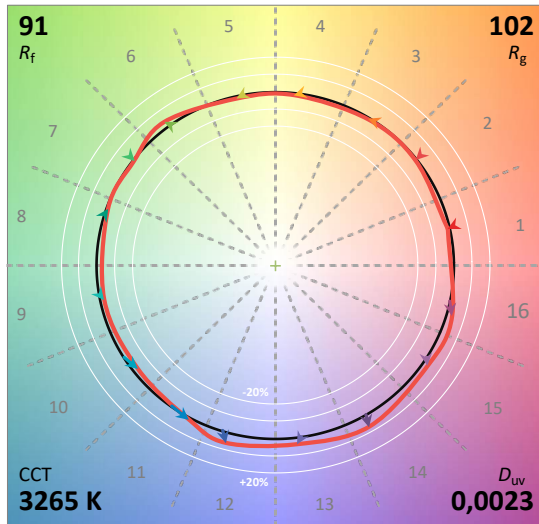
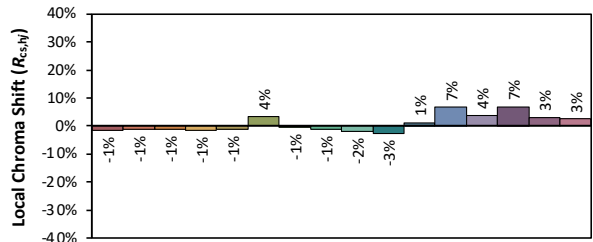
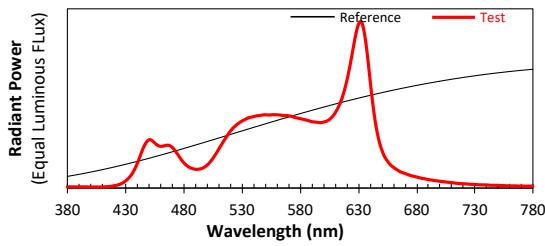
Test : CCT = P3265 (+0.4)  
 TLCI-2012 : 87 (P3265)



CQS - NIST Colour Quality Scale



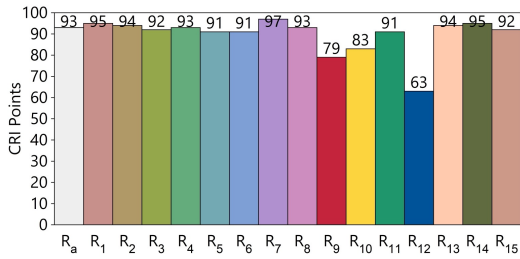
ANSI/IES TM-30-18 Colour Rendition Report



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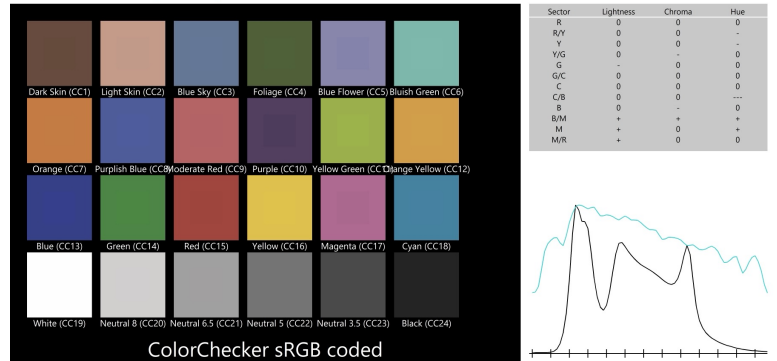
CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [6353]
6 350K	68.0000	93	79	91	89	97	91	64

CRI - CIE Colour Rendering Index

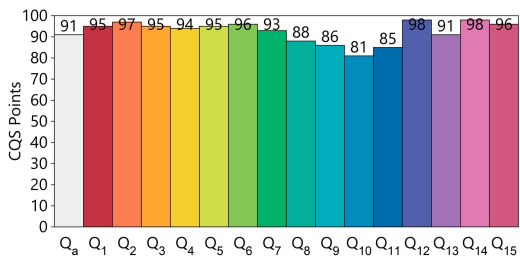


TLCI - Television Lighting Consistency Index

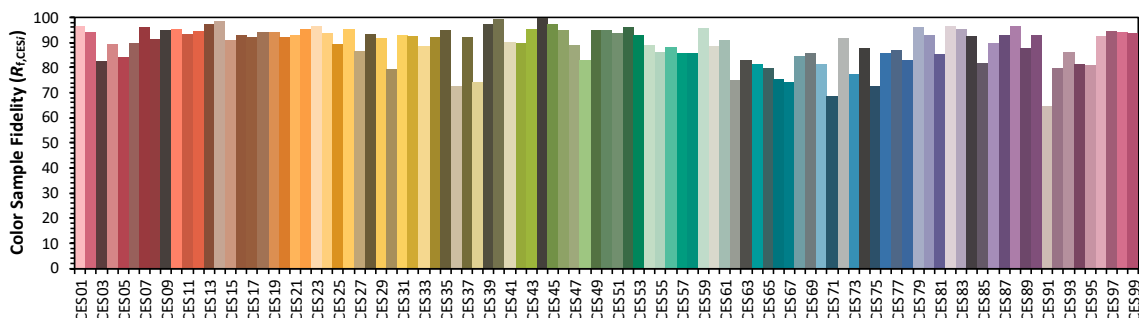
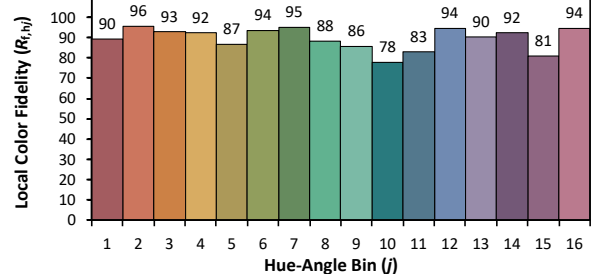
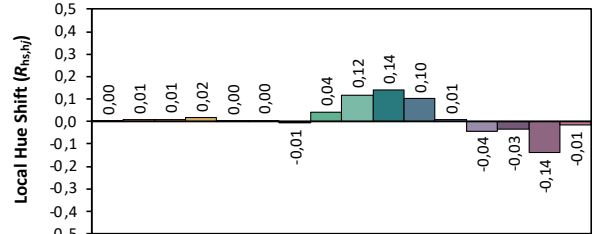
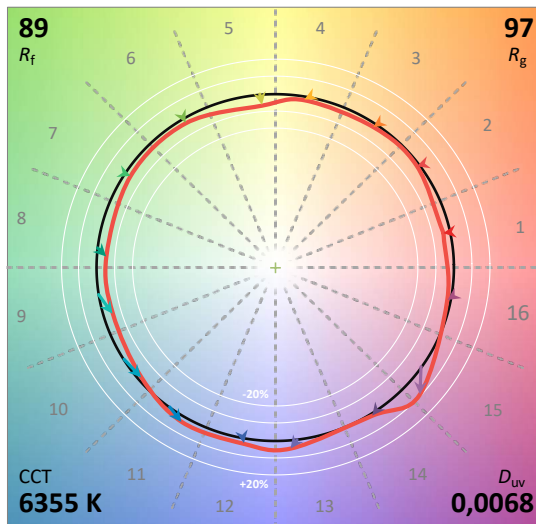
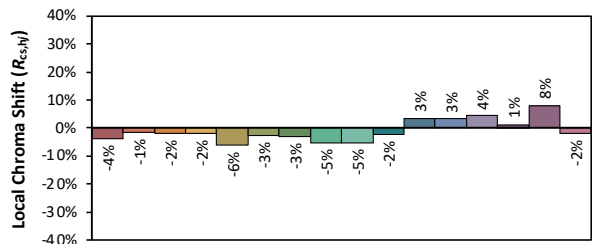
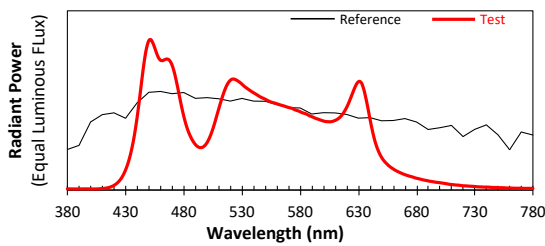
Test : CCT = D6354 (+0.7)  
 TLCI-2012 : 91 (D6354)



CQS - NIST Colour Quality Scale



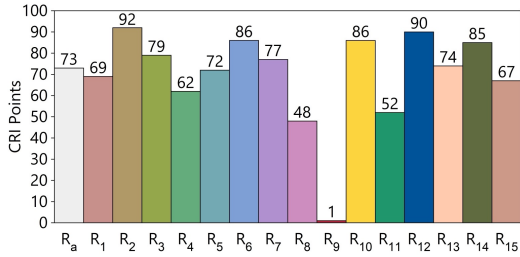
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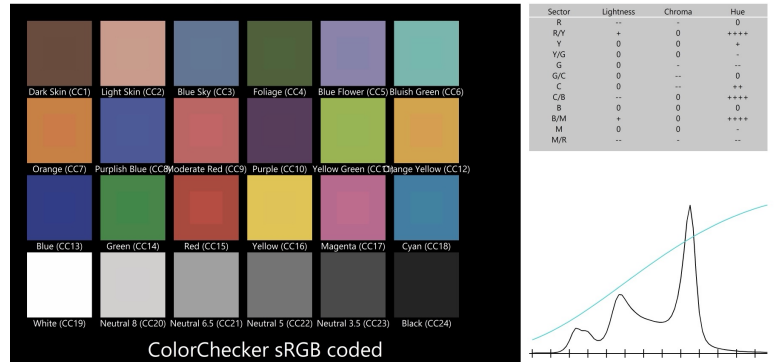
CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [3224]
3 220K	0.0046	73	1	84	83	108	69	59

CRI - CIE Colour Rendering Index

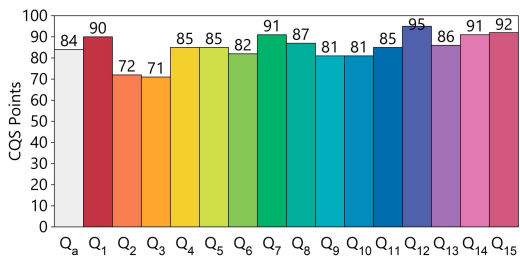


TLCI - Television Lighting Consistency Index

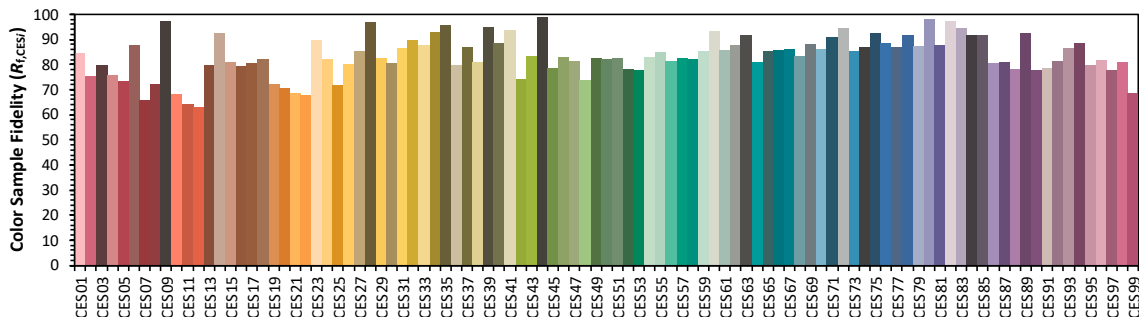
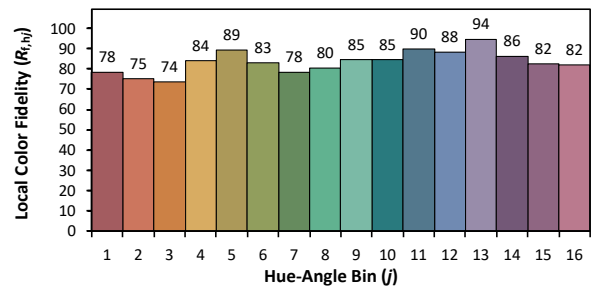
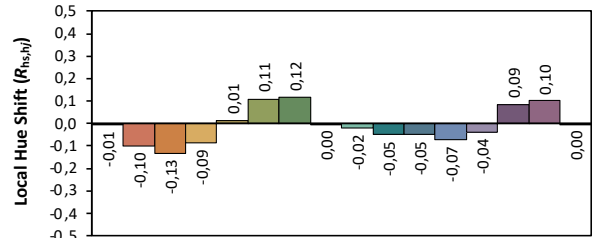
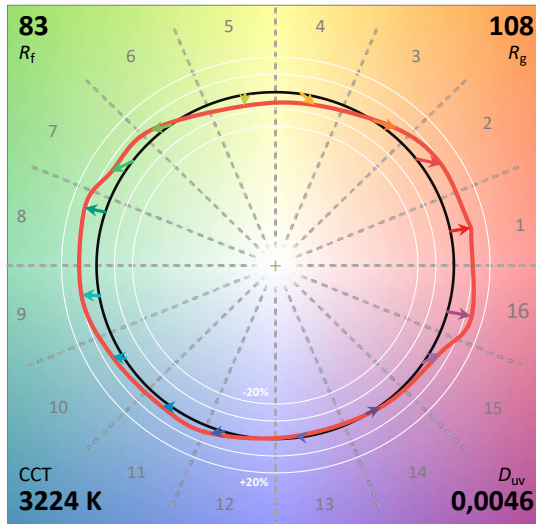
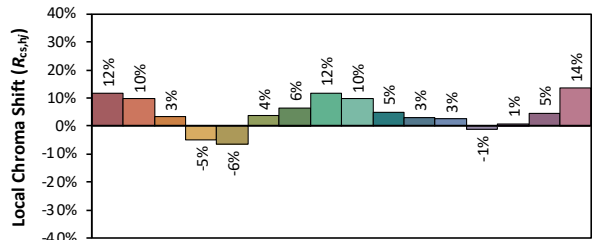
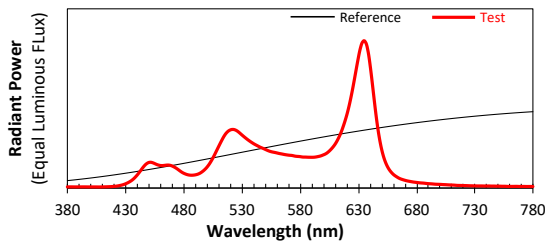
Test : CCT = P3224 (+0.9)  
 TLCI-2012 : 69 (P3224)



CQS - NIST Colour Quality Scale



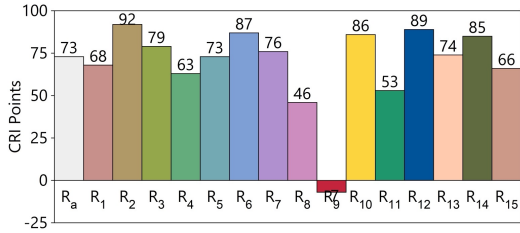
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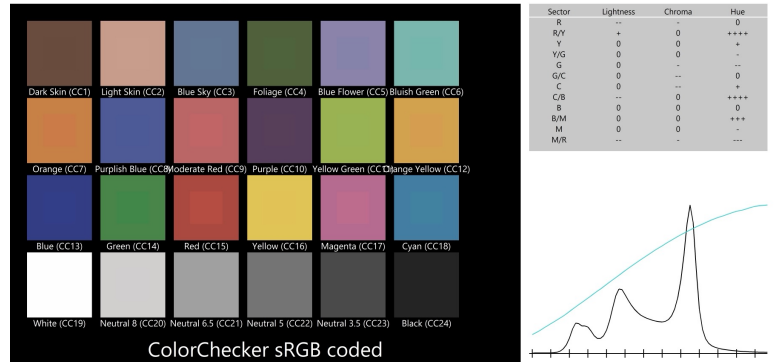
CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [3451]
3 450K	0.0050	73	-7	83	83	108	68	58

CRI - CIE Colour Rendering Index

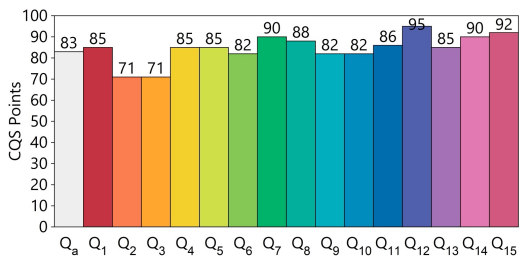


TLCI - Television Lighting Consistency Index

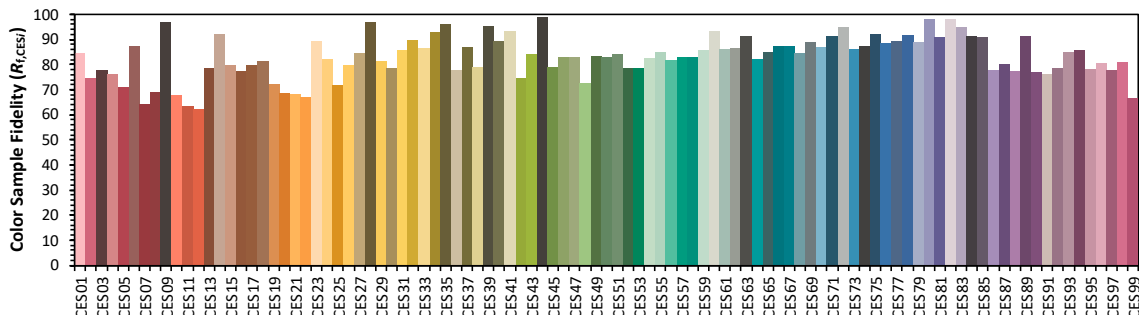
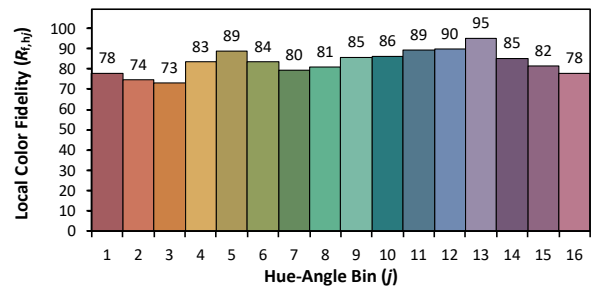
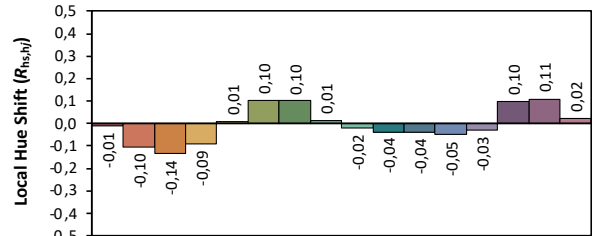
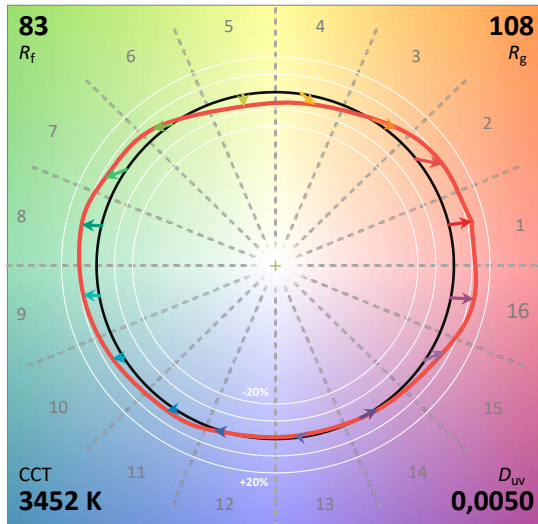
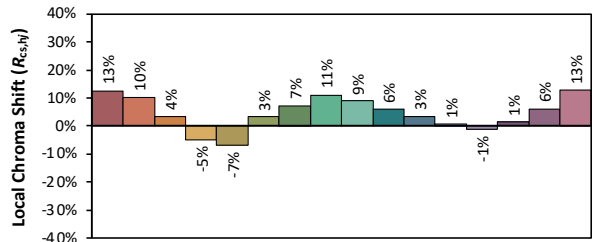
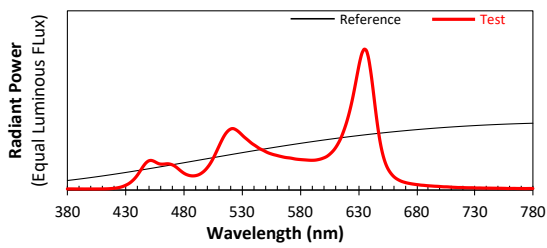
Test : CCT = M3452 (+0.9)  
 TLCI-2012 : 68 (M3452)



CQS - NIST Colour Quality Scale



ANSI/IES TM-30-18 Colour Rendition Report

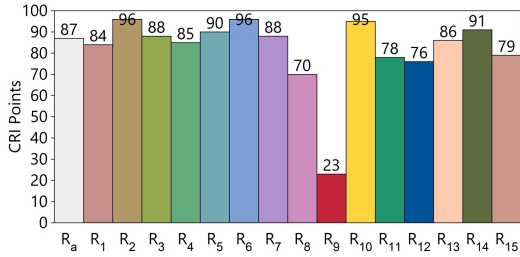


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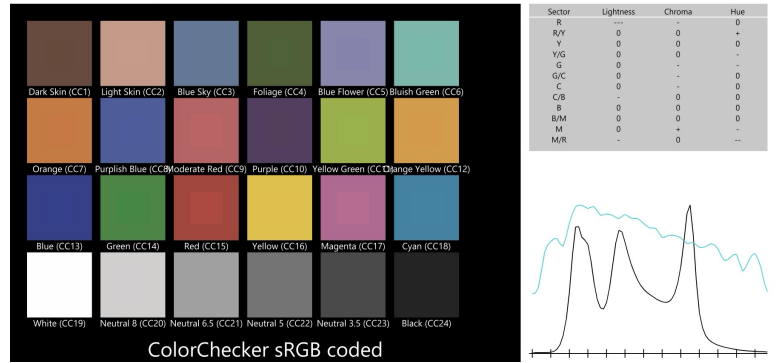
CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [6265]
6 270K	0.0073	87	23	91	88	105	86	60

CRI - CIE Colour Rendering Index

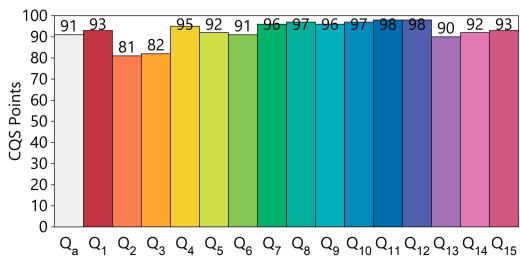


TLCI - Television Lighting Consistency Index

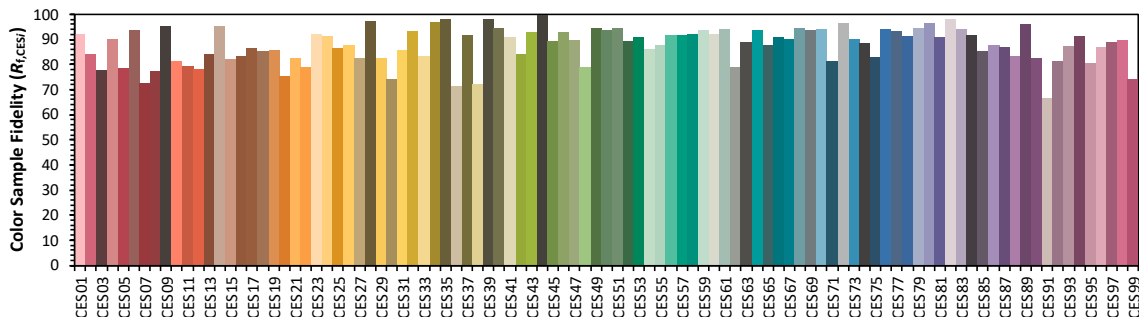
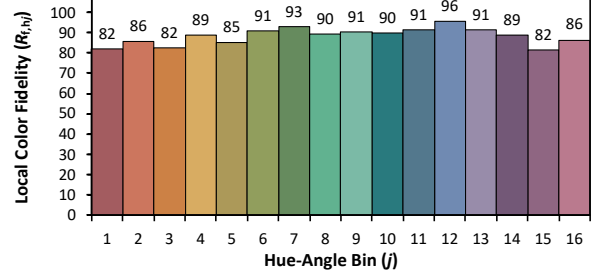
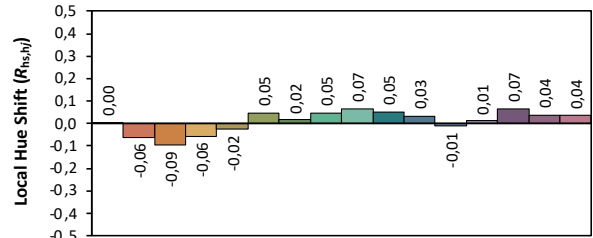
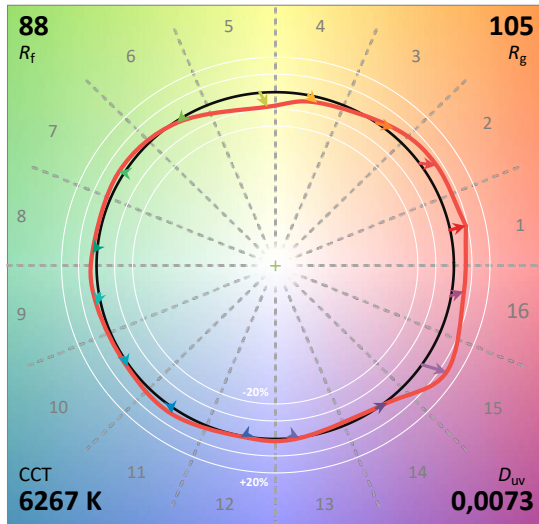
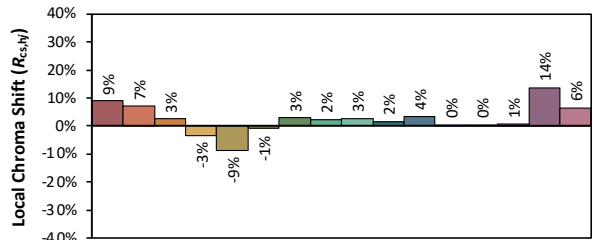
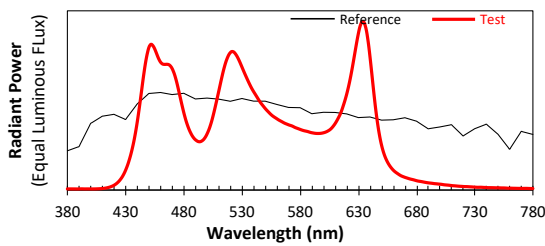
Direct spectrum input : CCT = D6266 (+0.8)  
 TLCI-2012 : 86 (D6266)



CQS - NIST Colour Quality Scale



ANSI/IES TM-30-18 Colour Rendition Report



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