

# BIZET - 674CSX VW

6705X - LED 500 W - VARIABLE WHITE



- **Type:** Profile spot
- **Source:** LED 500 W - Variable White
- **Optics:** 16° to 35° zoom
- **Colour temperature:** 3000K --> 6300K
- **Standard:** 110 V North american

Profile spot

## The perfect FOH spot

The Bizet 670SX profile spot is a mighty replacement for the 2000W Halogen profile series, while offering remote adjustment of the colour temperature up to 6300K (with an output exceeding a 2500W profile spot with colour correction). It features a 500W tunable white LED source which is used at full power whatever the colour temperature chosen, guarantying high quality whites (CRI of 96-98 and TM30 Rf of 94-96). The lamp house new design makes it compatible with Robert Juliat 600SX, 713SX and 714SX Series profile lens tubes. It is ideal for all long-throw front of house applications in medium to large venues.

### Features

- **Colour Temperature (CCT):** adjustable whites from 3000 to 6300 Kelvin. Extended mode available (CCT not calibrated)
- **Multi-function double gate:** simultaneous use of gobos and iris. Sharp focus of both gobo and shutter
- **Shutter gate:** up to 8 shutters. Remove shutters for easy maintenance or tuck fully inside gate for secure transport
- **User-friendly shutter-lock system:** secures shutters' setting in any circumstances (locking efficient up to 4 shutters)
- **Universal gobo holder:** "A" size glass and metal gobo
- **Lens tube lock feature:** secures rotating lens tube against unwanted movement
- **90° rotating lens tube / gate / front accessories holder:** rotation of the projected image is always possible – no need to move the yoke
- **Internal glass filter holder:** long term use of durable coloured, dichroic or textured glass
- **Adjustable response time:** choice of fast or slow dimming for tungsten-like simulation - adjustment by DMX protocol
- **Ethernet-DMX node:** data IN through RJ45 connector; data OUT through DMX for daisy chaining
- **Universal data control:** compatible with DMX, RDM, Art-Net, sACN protocols
- **Remote setup:** all parameters can be adjusted by RDM protocol or by web interface
- **PWM adjustment:** choice of different PWM dimming frequencies - continuous mode available
- **Advanced Ethernet node functionalities:** compatible with RDM, LLRP, Zeroconf protocols
- **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 or linear dimming curves
- **DMX:** 8 or 16 bit dimming, CCT, response time and strobe function
- **Easy focus reference:** graduated scale on side of the unit; fast and easy refocusing
- **Tilt reference on hanging yoke:** index for rapid re-positioning

### Optical

- **Calibrated tunable white source:** to ensure consistency between fixtures
- **Long life:** outstanding operational lifetime expectation, no need to replace lamps, low maintenance
- **Powerful tunable white:** maximum LED power guaranteed whatever the colour temperature is
- **Coated SX optical system:** double condenser optics for exceptional optical quality - Anti-Reflective coating to ensure optimal light transmission
- **Variable zoom optics:** sharp focus at every beam angle. Independent control of image size and focus. Focus handles on both sides
- **Coated zoom lenses:** all zoom lenses are anti-reflection coated (AR) to ensure a maximum transmission of light.
- **Electronic dimmer:** dimming without clipping or cut-out at low intensity levels; high quality smoothing
- **No colour shift:** colour temperature remains the same when dimming

### Construction

- **Made in France :** fully manufactured in Robert Juliat premises retaining complete control over all aspects of quality
- **Lamp house compatible with 611SX, 613SX, 614SX, 713SX and 714SX lens tubes:** lamp house only available for upgrade of existing tungsten fixtures
- **PSU:** built-in electronic flicker-free power supply for easy, plug-and-play installation
- **Power connectors:** compatible powerCON® TRUE1 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 a 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
- **Spare parts and accessories:** interchangeable across the tungsten, discharge or LED ranges, reducing running costs
- **Easy access to all parts:** easy cleaning and maintenance

Picture:674SX

DSEN426\_674CSX\_VW - 24/03/2025

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
- **Power:** 500 W

LED specifications	Power *	Lumen output*	Colour temperature*	Life*	CRI* (min)
TVW01	500 W	31 000 lm	3000K --> 6300K	30 000 h	95

(\*) manufacturer's data

## Optics

### Characteristics

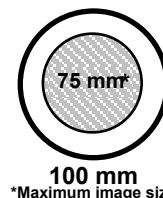
- **Type:** Zoom
- **Range:** 16° to 35° (Field angle)
- **Focal length:** 131 - 268 mm

### Gel filter

- **Shape:** Square
- **Standard size:** 191x191 mm (7.5x7.5 in)

### Gobo

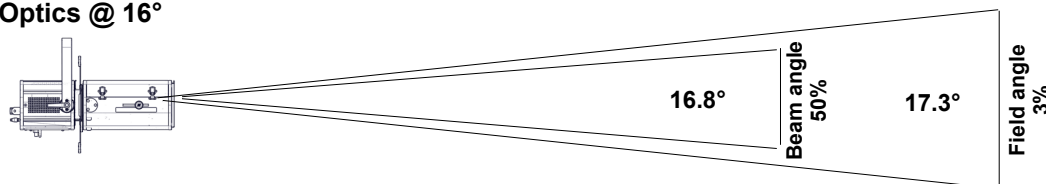
- **Size:** A
- **Material:** Metal  
Glass



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

optics: 16°-35° / Standard / 6000 K

### • Optics @ 16°



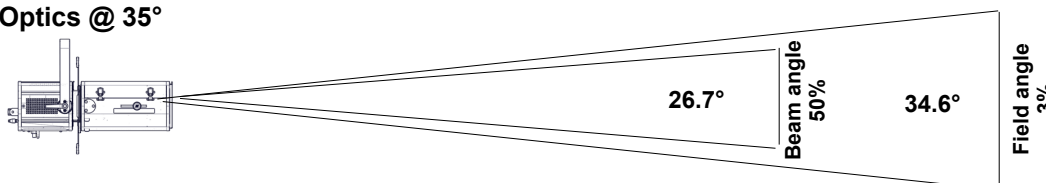
**Beam intensity**  
287 500 cd

**Field lumens**  
14 960 lm

**Efficacy**  
26 lm/W

<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Diameter</b>	1.5 m	3 m	4.6 m	6.1 m	7.6 m	9.1 m
<b>Illumination</b>	12 000 lux	2 900 lux	1 300 lux	720 lux	470 lux	320 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Diameter</b>	4.6 ft	10.6 ft	15.2 ft	19.8 ft	24.3 ft	30.4 ft
<b>Illumination</b>	1 300 fc	240 fc	120 fc	70 fc	45 fc	29 fc

### • Optics @ 35°



**Beam intensity**  
82 900 cd

**Field lumens**  
14 200 lm

**Efficacy**  
25 lm/W

<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Diameter</b>	3.1 m	6.2 m	9.3 m	12.5 m	15.6 m	18.7 m
<b>Illumination</b>	3 350 lux	830 lux	370 lux	210 lux	140 lux	95 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Diameter</b>	9.3 ft	21.8 ft	31.1 ft	40.5 ft	49.8 ft	62.3 ft
<b>Illumination</b>	370 fc	70 fc	34 fc	20 fc	13 fc	9 fc

## Remote control

- **Data protocol:** USITT DMX512-A  
RDM / Art-Net / sACN

- **Data IN connector:** 5 pins XLR male + etherCON RJ45
- **Data OUT connector** 5 pins XLR female



### • DMX chart:

#### Mode 1 (1 channels)

Dimmer

#### Mode 2 (6 channels)

Dimmer  
Dimmer fine  
Strobe duration  
Strobe speed  
Response time  
Control mode

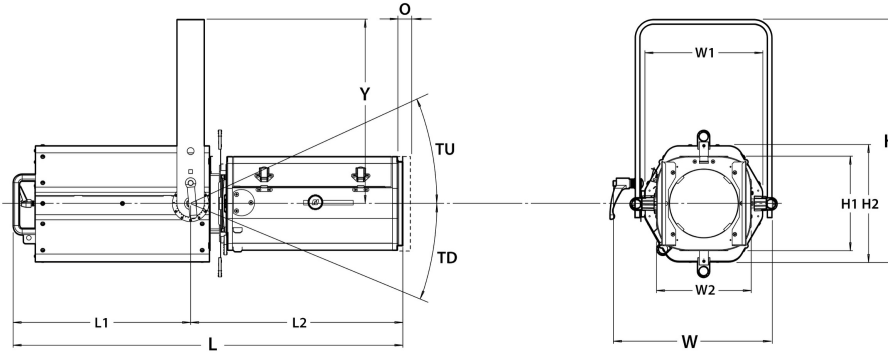
#### Mode 3 (2 channels)

Dimmer  
CCT

#### Mode 4 (8 channels)

Dimmer  
Dimmer fine  
Strobe duration  
Strobe speed  
Response time  
Control mode  
CCT  
CCT fine

## Dimensions and weight



**Weight:** 20.8 kg (45.8 lbs)

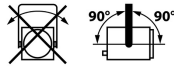
Height	Length	Width	Yoke	Tilt	Option
H= 535 mm (21.1 in)	L= 855 mm (33.7 in)	W= 347 mm (13.7 in)	Y= 405 mm (15.9 in)	TD= 90°	O= 25 mm (1 in)
H'= 445 mm (17.5 in)	L1= 390 mm (15.4 in)	W1= 259 mm (10.2 in)	Y'= 315 mm (12.4 in)		
H1= 208 mm (8.2 in)	L2= 465 mm (18.3 in)	W2= 208 mm (8.2 in)			
H2= 259 mm (10.2 in)					

## Shipping

- **Weight :** 24 kg (52.8 lbs)
- **Volume :** .13 m<sup>3</sup> (4.73 ft<sup>3</sup>)

## Installation

- **Minimum distance to illuminated surface:** 1.1 m ( 3.6 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):** 90°C (194°F)
- **Total heat dissipation:** 2 068 BTU/h
- **Ingress Protection (IP) rating:** IP20

## Electrical compatibility

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

## Power input



- **Type:** removable power cord with compatible powerCON® TRUE1 connector (included)
- **Cable:** 14 AWG SJ type (UL/CSA)
- **Length:** 1.5 m (4.9 ft)
- **Power connector:** without connector

## Power consumption

Voltage	Frequency	Current	Power	Power factor
110 V	60 Hz	5.6 A	606 W	0.98
208 V	60 Hz	2.96 A	593 W	0.96
100 V	60 Hz	6.19 A	610 W	0.99

## Power Supply Unit

- **PSU:** Internal - Electronic PSU - Flicker free with PFC
- **Control:** Local / DMX
- **Protection:** Mains: 2x 10A 1P1D breaker - UL /
- **Power thru:** compatible powerCON® TRUE1 - Maximum of 5 units (230 V) / 2 units (120 V)

## Warranty

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

## Approvals




## Acoustics

- **Noise level:** < 30,2 dB(A)











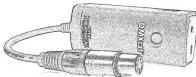



## Model

<b>674CSX VW</b>	LED 500 W - Variable White Profile spot - 674CSX VW Bizet - 16/35° - North american standard
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## Options

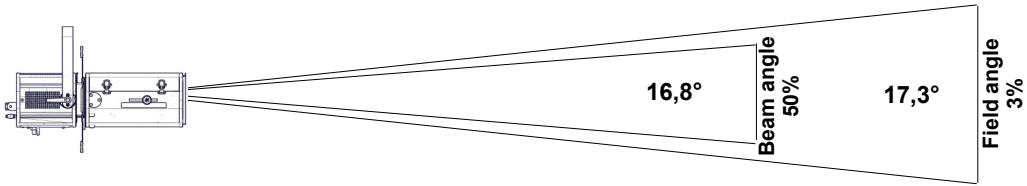
<b>CAV600C</b>	Double slot front cassette for 191x191mm (7-1/2") accessories	
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## Accessories

<b>D8</b>	Shutter for SX series <b>4 included</b>	
<b>SGUX</b>	Universal "A" size gobo-holder (metal, glass, frosted glass) <b>1 included</b>	
<b>FO100-10</b>	Ø97mm optical filter for coloured LED source - typ 10 <b>1 included</b>	
<b>IWSX755</b>	Drop-in iris (monoplane) with holder - Weight: 0.26 Kg	
<b>D8</b>	Shutter for SX series	
<b>G500</b>	180x180mm safety grid	
<b>CAV600AC</b>	Double slot front cassette for 191x191mm (7-1/2") accessories - Weight: 0.45 Kg	
<b>RPF613</b>	180x180mm front extension cassette for 215x215mm accessories without fan (recommended for dark colours on 613SX/663SX) - Weight: 1.5 Kg	
<b>RPF613E</b>	180x180mm front extension cassette for 245x245mm accessories without fan (recommended for dark colours on 613SX/663SX)	
<b>VD120</b>	120x120mm frosted glass	
<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 - Weight: 1.25 Kg	
<b>880</b>	Hook clamp 40x10mm with 28mm M10 screw for Ø50 to 63mm pipes - SWL: 50Kg - Weight: 1.36 Kg	
<b>CS2</b>	Safety cable Ø3 mm L= 600mm - SWL: 75 Kg	

• Optics @ 16°

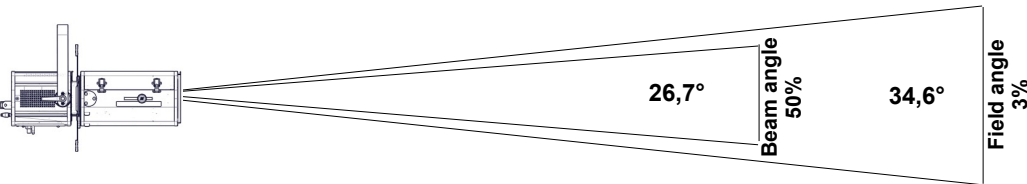
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
14 960 Lm	14 670 Lm	26 Lm/W	287 500 Cd	6 150 K	0.0009



<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Field diameter</b>	1,5 m	3 m	4,6 m	6,1 m	7,6 m	9,1 m
<b>Illumination</b>	12 000 lux	2 900 lux	1 300 lux	720 lux	470 lux	320 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Field diameter</b>	4,6 ft	10,6 ft	15,2 ft	19,8 ft	24,3 ft	30,4 ft
<b>Illumination</b>	1 300 fc	240 fc	120 fc	70 fc	45 fc	29 fc

• Optics @ 35°

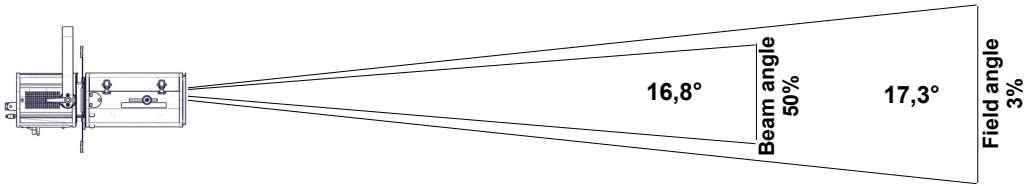
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
14 200 Lm	10 500 Lm	25 Lm/W	82 900 Cd	5 970 K	0.0009



<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Field diameter</b>	3,1 m	6,2 m	9,3 m	12,5 m	15,6 m	18,7 m
<b>Illumination</b>	3 350 lux	830 lux	370 lux	210 lux	140 lux	95 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Field diameter</b>	9,3 ft	21,8 ft	31,1 ft	40,5 ft	49,8 ft	62,3 ft
<b>Illumination</b>	370 fc	70 fc	34 fc	20 fc	13 fc	9 fc

• Optics @ 16°

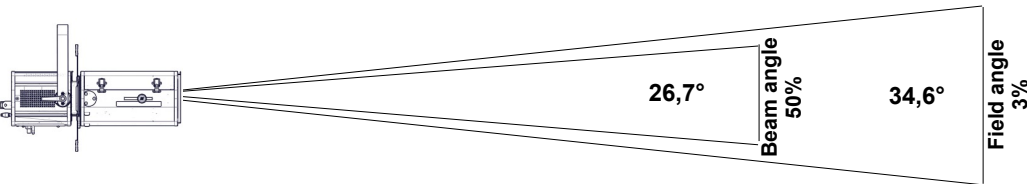
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
11 000 Lm	10 770 Lm	19 Lm/W	209 900 Cd	3 240 K	-0.0008



<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Field diameter</b>	1,5 m	3 m	4,6 m	6,1 m	7,6 m	9,1 m
<b>Illumination</b>	8 400 lux	2 100 lux	940 lux	530 lux	340 lux	240 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Field diameter</b>	4,6 ft	10,6 ft	15,2 ft	19,8 ft	24,3 ft	30,4 ft
<b>Illumination</b>	940 fc	180 fc	85 fc	50 fc	33 fc	21 fc

• Optics @ 35°

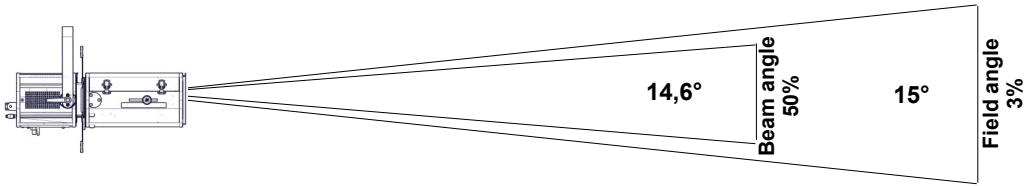
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
10 390 Lm	7 670 Lm	18 Lm/W	60 900 Cd	3 190 K	-0.0008



<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Field diameter</b>	3,1 m	6,2 m	9,3 m	12,5 m	15,6 m	18,7 m
<b>Illumination</b>	2 450 lux	610 lux	280 lux	160 lux	100 lux	70 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Field diameter</b>	9,3 ft	21,8 ft	31,1 ft	40,5 ft	49,8 ft	62,3 ft
<b>Illumination</b>	280 fc	50 fc	25 fc	15 fc	10 fc	7 fc

• Optics @ 15°

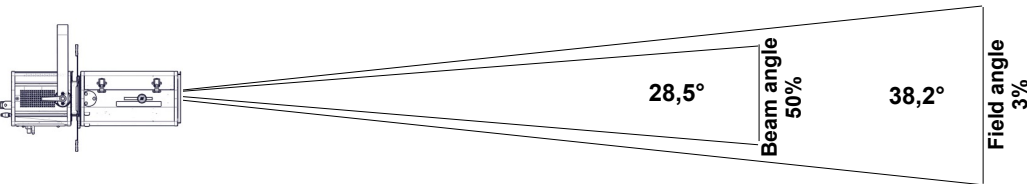
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
14 700 Lm	14 470 Lm	26 Lm/W	364 900 Cd	6 210 K	0.0016



<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Field diameter</b>	1,3 m	2,6 m	3,9 m	5,3 m	6,6 m	7,9 m
<b>Illumination</b>	15 000 lux	3 650 lux	1 650 lux	920 lux	590 lux	410 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Field diameter</b>	3,9 ft	9,2 ft	13,2 ft	17,1 ft	21,1 ft	26,3 ft
<b>Illumination</b>	1 650 fc	300 fc	150 fc	90 fc	60 fc	37 fc

• Optics @ 40°

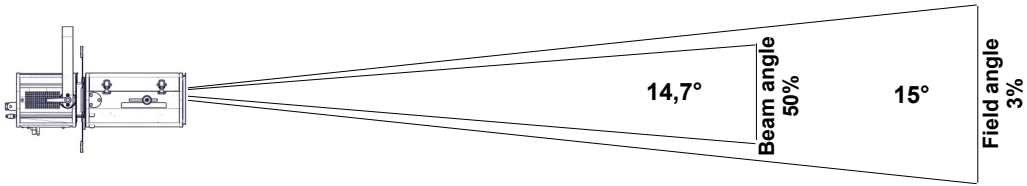
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
13 270 Lm	9 670 Lm	23 Lm/W	65 000 Cd	5 960 K	0.0018



<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Field diameter</b>	3,5 m	6,9 m	10,4 m	13,9 m	17,3 m	20,8 m
<b>Illumination</b>	2 650 lux	660 lux	290 lux	170 lux	110 lux	75 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Field diameter</b>	10,4 ft	24,2 ft	34,6 ft	45 ft	55,4 ft	69,3 ft
<b>Illumination</b>	290 fc	55 fc	27 fc	16 fc	11 fc	7 fc

• Optics @ 15°

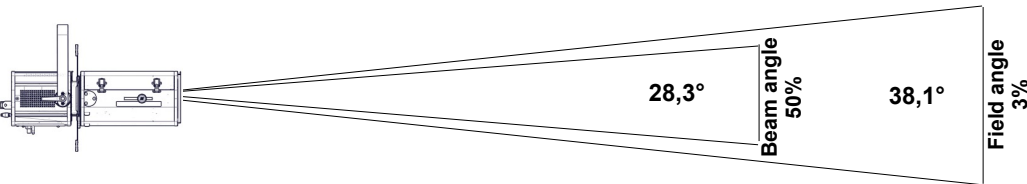
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
10 830 Lm	10 660 Lm	19 Lm/W	270 200 Cd	3 250 K	-0.0001



<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Field diameter</b>	1,3 m	2,6 m	3,9 m	5,3 m	6,6 m	7,9 m
<b>Illumination</b>	11 000 lux	2 750 lux	1 250 lux	680 lux	440 lux	310 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Field diameter</b>	3,9 ft	9,2 ft	13,2 ft	17,1 ft	21,1 ft	26,3 ft
<b>Illumination</b>	1 250 fc	230 fc	110 fc	65 fc	43 fc	28 fc

• Optics @ 40°

Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
9 790 Lm	7 080 Lm	17 Lm/W	48 500 Cd	3 180 K	-0.0002

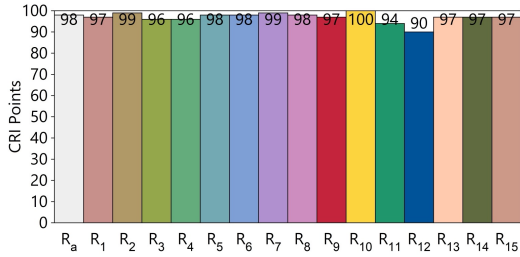


<b>Distance</b>	5 m	10 m	15 m	20 m	25 m	30 m
<b>Field diameter</b>	3,5 m	6,9 m	10,4 m	13,8 m	17,3 m	20,7 m
<b>Illumination</b>	1 950 lux	490 lux	220 lux	130 lux	80 lux	55 lux
<b>Distance</b>	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
<b>Field diameter</b>	10,4 ft	24,2 ft	34,5 ft	44,9 ft	55,2 ft	69,1 ft
<b>Illumination</b>	220 fc	40 fc	20 fc	12 fc	8 fc	5 fc



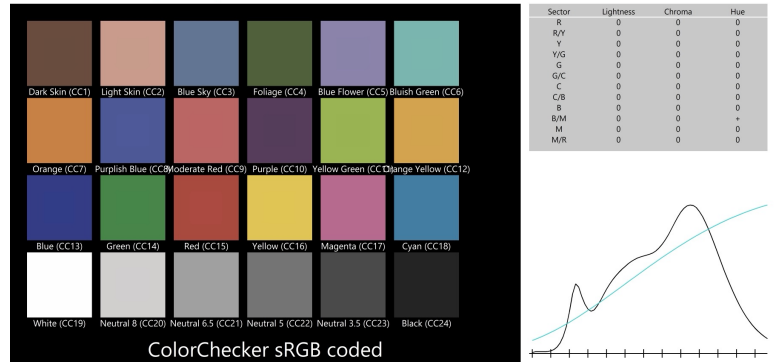
CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [3200]
3 200K	-0.0007	98	97	98	96	102	99	86

CRI - CIE Colour Rendering Index

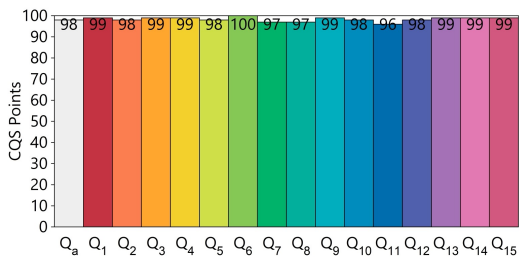


TLCI - Television Lighting Consistency Index

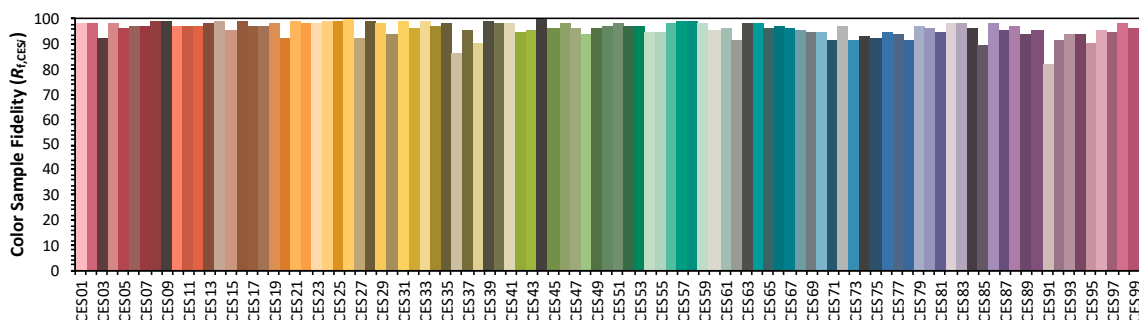
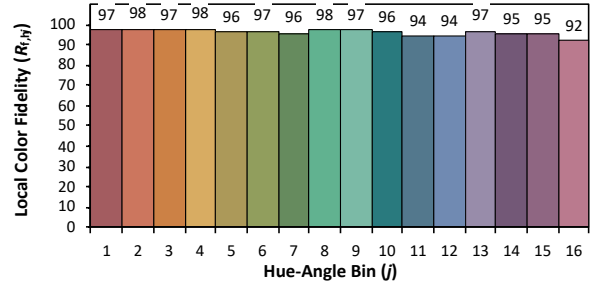
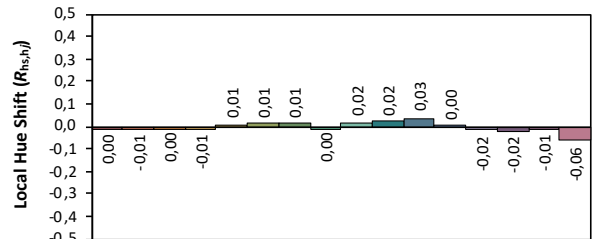
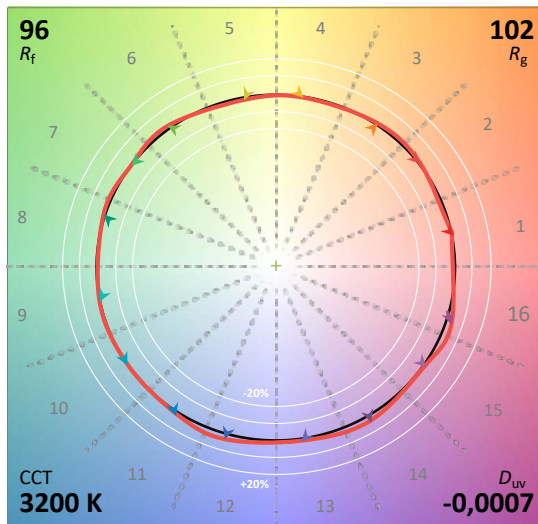
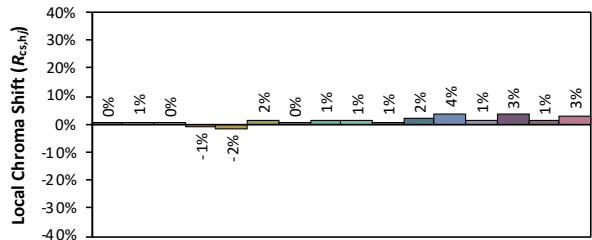
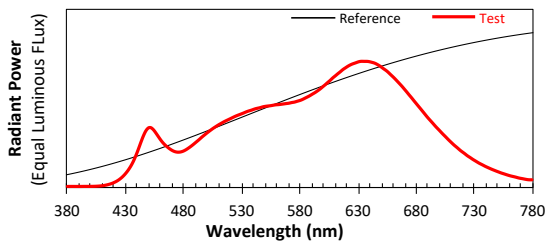
Test : CCT = P3200 (-0.1)  
 TLCI-2012 : 99 (P3200)



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 [6002]
6 000K	0.0007	97	97	94	94	102	99	75

CRI - CIE Colour Rendering Index

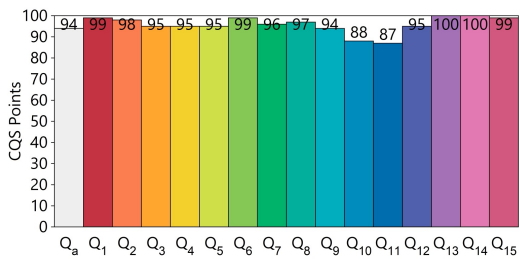


TLCI - Television Lighting Consistency Index

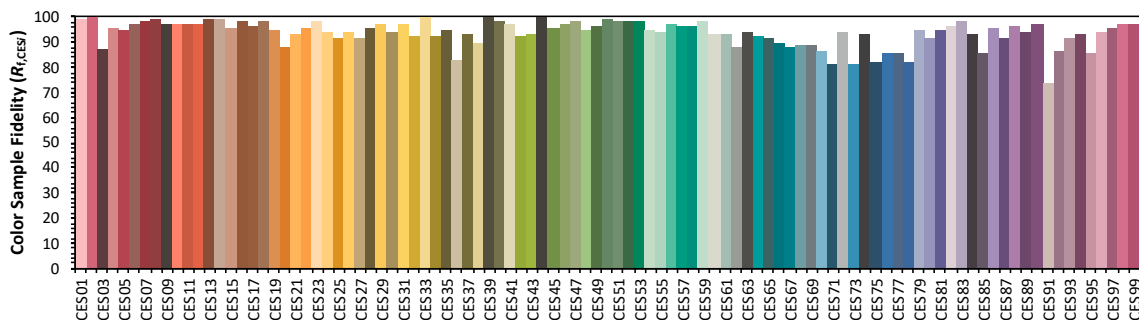
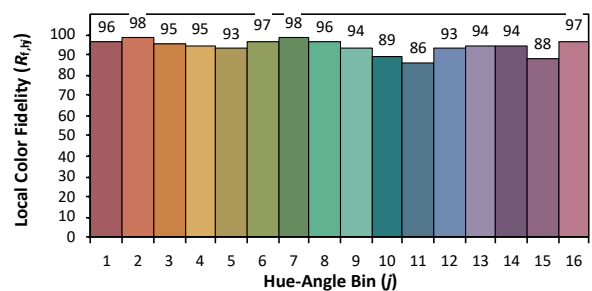
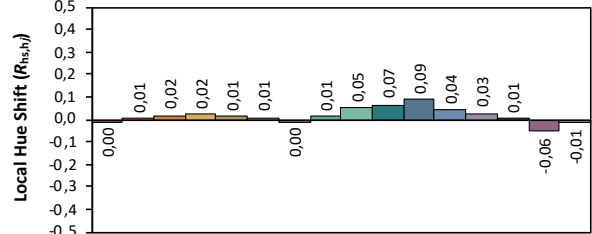
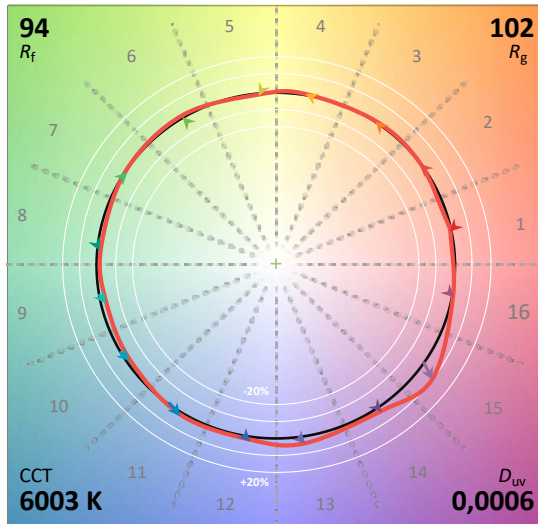
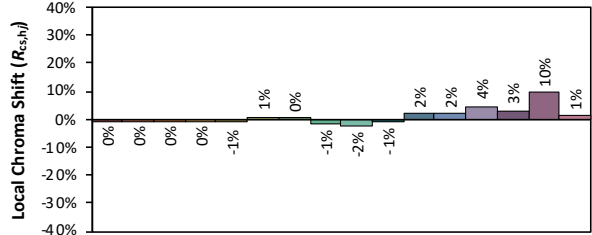
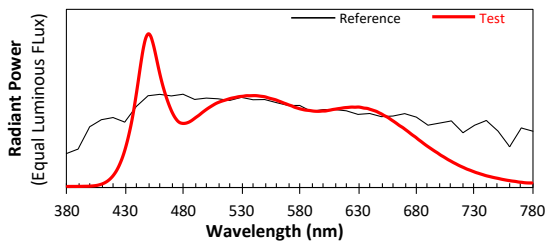
Test : CCT = D6002 (-0.5)  
 TLCI-2012 : 99 (D6002)



CQS - NIST Colour Quality Scale



ANSI/IES TM-30-18 Colour Rendition Report



Colours are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00