

SULLY - 653CSX CW

650SX - LED 115 W



- **Type:** Profile spot
- **Source:** LED 115 W
- **Optics:** 28° to 54° zoom
28° to 54° configuration possible
- **Colour temperature:** Cool White
- **Standard:** 110 V North american

Profile spot

The new classic theatre zoom profile in LED version

The Sully 650SX Series is a variable zoom profile range featuring a high-quality 115 W cool white LED source that delivers a first-class white light and an output that exceeds a 2500 W tungsten luminaire equipped with CTB filter. Combining this new LED engine with the proven optics of the renowned 600SX Series, Sully profile offers accurate framing and superb gobo projection. The LED compartment of the Sully profile can be swapped with those of the 600SX Series (as well as with those of Aledin 630SX or Quincy 420SX Series). It is equally happy on stage, overhead, on side booms or prosceniums, in opera houses, theatres and studios, where "daylight" rendering is required.

Features

- **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
- **Dimming parameters:** choice of square or linear dimming curves
- **Local setup (optional):** DMX address and mode, dimming curve and response time through 4-button display with automatic light switch-off
- **DMX:** 8 or 16 bit dimming, 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

- **Long life:** outstanding operational lifetime expectation, no need to replace lamps, low maintenance
- **Choice of colour temperature:** warm or cool white LED compartment can be easily swapped
- **SX optical system:** double condenser optics for exceptional optical quality
- **Optional coated double condenser optics:** up to 15% more light output
- **Variable zoom optics:** sharp focus at every beam angle. Independent control of image size and focus. Focus handles on both sides
- **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
- **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
- **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:653SX

DSEN384_653CSX_CW - 08/04/2026

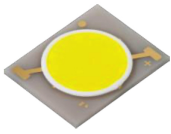
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ROBERT JULIAT

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



- **Lamp type:** LED
- **Power:** 115 W

| LED specifications | Power * | Lumen output* | Colour temperature* | CRI* |
|--------------------|---------|---------------|---------------------|------|
| LED 115W CW | 115 W | 14 300 lm | 5700K | 93 |

(*) manufacturer's data

Optics

Characteristics

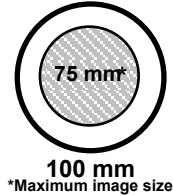
- **Type:** Zoom
- **Range:** 28° to 54° (Field angle)
28° to 54° configuration possible
- **Focal length:** 86 - 160 mm

Gel filter

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

Gobo

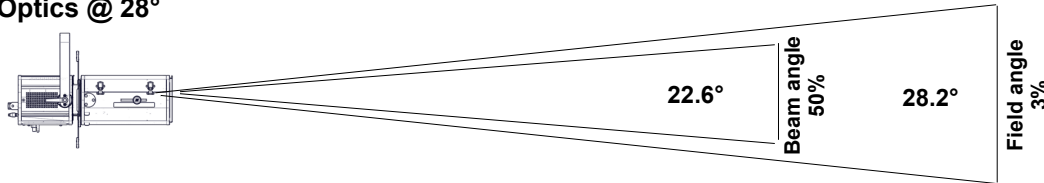
- **Size:** A
- **Material:** Metal
Glass



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

optics: 28°-54° / Standard

• **Optics @ 28°**



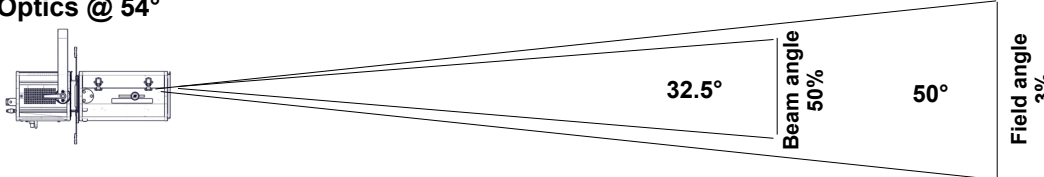
Beam intensity
73 000 cd

Field lumens
8 530 lm

Efficacy
65 lm/W

| | | | | | | |
|---------------------|-----------|-----------|-----------|---------|---------|---------|
| Distance | 3 m | 5 m | 7 m | 10 m | 12 m | 15 m |
| Diameter | 1.5 m | 2.5 m | 3.5 m | 5 m | 6 m | 7.5 m |
| Illumination | 8 200 lux | 2 950 lux | 1 500 lux | 740 lux | 510 lux | 330 lux |
| Distance | 10 ft | 15 ft | 25 ft | 35 ft | 40 ft | 50 ft |
| Diameter | 5 ft | 7.5 ft | 12.6 ft | 17.6 ft | 20.1 ft | 25.1 ft |
| Illumination | 740 fc | 330 fc | 120 fc | 60 fc | 46 fc | 30 fc |

• **Optics @ 54°**



Beam intensity
30 000 cd

Field lumens
9 600 lm

Efficacy
72 lm/W

| | | | | | | |
|---------------------|-----------|-----------|---------|---------|---------|---------|
| Distance | 3 m | 5 m | 7 m | 10 m | 12 m | 15 m |
| Diameter | 2.8 m | 4.7 m | 6.5 m | 9.3 m | 11.2 m | 14 m |
| Illumination | 3 350 lux | 1 250 lux | 620 lux | 310 lux | 210 lux | 140 lux |
| Distance | 10 ft | 15 ft | 25 ft | 35 ft | 40 ft | 50 ft |
| Diameter | 9.3 ft | 14 ft | 23.3 ft | 32.6 ft | 37.3 ft | 46.6 ft |
| Illumination | 310 fc | 140 fc | 49 fc | 25 fc | 19 fc | 13 fc |

Remote control

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

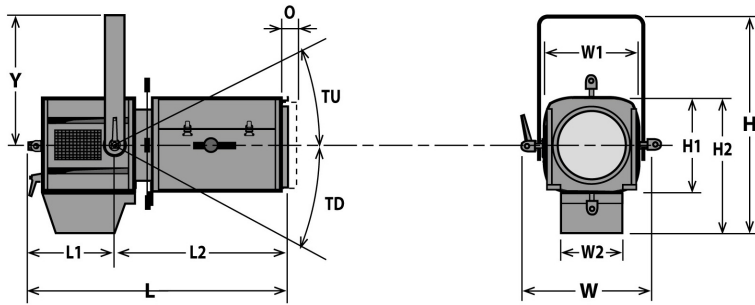
- **Data IN connector:** 5 pins XLR male + etherCON RJ45
- **Data OUT connector:** 5 pins XLR female



• **DMX chart:**

| Mode 1 (1 channels) | Mode 2 (2 channels) | Mode 3 (5 channels) | Mode 4 (6 channels) |
|---------------------|-----------------------|--|---|
| Dimmer | Dimmer Dimmer fine | Dimmer Strobe duration Strobe speed Response time Control mode | Dimmer Dimmer fine Strobe duration Strobe speed Response time Control mode |

Dimensions and weight



Weight: 12.2 kg (26.8 lbs)

| Height | Length | Width | Yoke | Tilt | Option |
|----------------------|----------------------|---------------------|-------------------|---------|-----------------|
| H= 473 mm (18.6 in) | L= 564 mm (22.2 in) | W= 330 mm (13 in) | Y= 280 mm (11 in) | TU= 63° | O= 25 mm (1 in) |
| H1= 208 mm (8.2 in) | L1= 240 mm (9.4 in) | W1= 208 mm (8.2 in) | | TD= 90° | |
| H2= 294 mm (11.6 in) | L2= 324 mm (12.8 in) | W2= 136 mm (5.4 in) | | | |

Shipping

- **Weight :** 15.2 kg (33.4 lbs)
- **Volume :** .13 m³ (4.59 ft³)

Installation

- **Minimum distance to illuminated surface:** 0.8 m (2.6 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):** 52°C (125.6°F)
- **Total heat dissipation:** 461 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 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 |
|---------|-----------|---------|-------|--------------|
| 120 V | 60 Hz | 1.15 A | 135 W | 0.98 |
| 230 V | 50 Hz | 0.7 A | 130 W | 0.81 |
| 100 V | 60 Hz | 1.4 A | 135 W | 0.96 |

Power Supply Unit

- **PSU:** Internal - Electronic PSU - Flicker free with PFC
- **Control:** / DMX
- **Protection:** Mains: 2x 6.3A 5x20 T fuses /
- **Power thru:** compatible powerCON® TRUE1 - Maximum of 22 units (230 V) / 12 units (120 V)

Approvals



Warranty

- **Fixture: 3 years - Source: 5 years**
See General Sales Condition on website





Acoustics

- **Noise level:** < 22,8 dB(A)








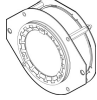




Model

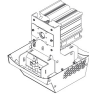













| | |
|------------------|--|
| 653CSX CW | LED 115 W Profile spot - 653CSX CW Sully - Cool White - 28/54° - North american standard |
|------------------|--|

Options

| | | |
|-------------------|---|---|
| CAV600C | Double slot front cassette for 191x191mm (7-1/2") accessories |  |
| APH 68LEDM | Double-condenser set for Led profile |  |
| FCD600PV | Angled yoke |  |
| DISP2 | Display and keyboard for local setup |  |

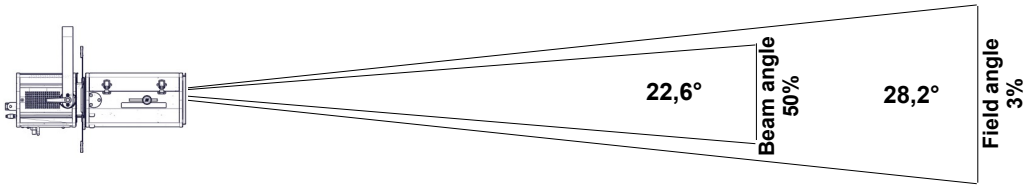
Accessories

| | | |
|---------------------|---|---|
| D8 | Shutter for SX series 4 included |  |
| SGUX | Universal "A" size gobo-holder (metal, glass, frosted glass) 1 included |  |
| Fusion/RJ | Madrix Radar (RDM monitoring): Fusion RJ licence - access to all RDM parameters of RJ fixtures 1 included |  |
| IWSX755 | Drop-in iris (monoplane) with holder - Weight: 0.26 Kg |  |
| D8 | Shutter for SX series |  |
| G500 | 180x180mm safety grid |  |
| CAV600AC | Double slot front cassette for 191x191mm (7-1/2") accessories - Weight: 0.45 Kg |  |
| APH 68LED | Double-condenser set for Led profile - Weight: 0.58 Kg |  |
| T/650CDNSX4C | SULLY 200W LED compartment with display and network - 4 colours - North American standard - 1,50m UL/CSA power cable without plug - Weight: 2.88 Kg |  |
| T/650CDSX4C | SULLY 200W LED compartment with display - 4 colours - North American standard - 1,50m UL/CSA power cable without plug - Weight: 2.88 Kg |  |
| T/650CDSXCW | SULLY 115W LED compartment with display - Cool White - North American standard - 1,50m UL/CSA power cable without plug - Weight: 2.33 Kg |  |
| T/650CDSXWW | SULLY 115W LED compartment with display - Warm White - North American standard - 1,50m UL/CSA power cable without plug - Weight: 2.33 Kg |  |

| | | |
|-------------------|---|---|
| T/650CSXWW | SULLY 115W LED compartment - Warm White - North American standard - 1,50m UL/CSA power cable without plug - Weight: 2.27 Kg |  |
| FO120C-1 | 120x120mm 1° frost optical filter |  |
| FO120C-10 | 120x120mm 10° frost optical filter |  |
| FO120C-2 | 120x120mm 2° frost optical filter |  |
| FO120C-5 | 120x120mm 5° frost optical filter |  |
| VD120 | 120x120mm frosted glass |  |
| FCD600 | Angled yoke |  |
| DMXcat | Bluetooth DMX/RDM Multifunction test tool - City Theatrical DMXcat® |  |
| Fusion/L | Madrix Radar (RDM monitoring): Fusion Large licence - up to 4096 non-RJ RDM fixtures - USB dongle included |  RADAR |
| Fusion/M | Madrix Radar (RDM monitoring): Fusion Medium licence - up to 512 non-RJ RDM fixtures - USB dongle included |  RADAR |
| Fusion/S | Madrix Radar (RDM monitoring): Fusion Small licence - up to 64 non-RJ RDM fixtures - USB dongle included |  RADAR |
| 876 | Hook clamp 40x10mm with 28mm M10 screw for Ø35 to 50mm pipes - SWL: 50Kg - Weight: 1.25 Kg |  |
| 880 | Hook clamp 40x10mm with 28mm M10 screw for Ø50 to 63mm pipes - SWL: 50Kg - Weight: 1.36 Kg |  |
| CS2 | Safety cable Ø3 mm L= 600mm - SWL: 75 Kg |  |

• Optics @ 28°

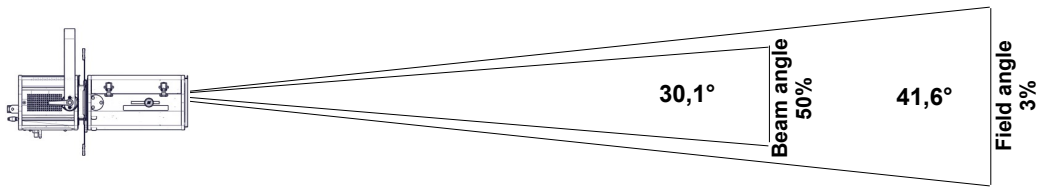
| Field lumens | Beam lumens | Efficacy | Beam intensity | CCT | Delta uv |
|--------------|-------------|----------|----------------|---------|----------|
| 8 530 Lm | 6 470 Lm | 65 Lm/W | 73 000 Cd | 5 470 K | 0.004 |



| | | | | | | |
|----------------|-----------|-----------|-----------|---------|---------|---------|
| Distance | 3 m | 5 m | 7 m | 10 m | 12 m | 15 m |
| Field diameter | 1,5 m | 2,5 m | 3,5 m | 5 m | 6 m | 7,5 m |
| Illumination | 8 200 lux | 2 950 lux | 1 500 lux | 740 lux | 510 lux | 330 lux |
| Distance | 10 ft | 15 ft | 25 ft | 35 ft | 40 ft | 50 ft |
| Field diameter | 5 ft | 7,5 ft | 12,6 ft | 17,6 ft | 20,1 ft | 25,1 ft |
| Illumination | 740 fc | 330 fc | 120 fc | 60 fc | 46 fc | 30 fc |

• Optics @ 41°

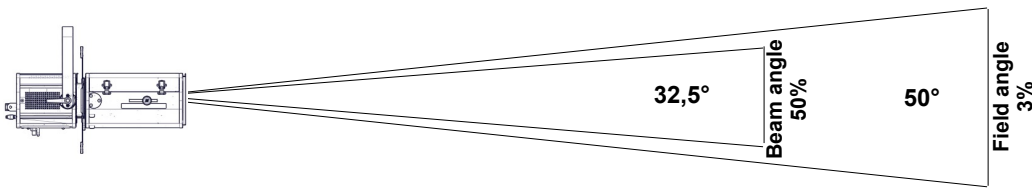
| Field lumens | Beam lumens | Efficacy | Beam intensity | CCT | Delta uv |
|--------------|-------------|----------|----------------|---------|----------|
| 8 610 Lm | 6 680 Lm | 65 Lm/W | 35 200 Cd | 5 430 K | 0.004 |



| | | | | | | |
|----------------|-----------|-----------|---------|---------|---------|---------|
| Distance | 3 m | 5 m | 7 m | 10 m | 12 m | 15 m |
| Field diameter | 2,3 m | 3,8 m | 5,3 m | 7,6 m | 9,1 m | 11,4 m |
| Illumination | 3 950 lux | 1 450 lux | 720 lux | 360 lux | 250 lux | 160 lux |
| Distance | 10 ft | 15 ft | 25 ft | 35 ft | 40 ft | 50 ft |
| Field diameter | 7,6 ft | 11,4 ft | 19 ft | 26,6 ft | 30,4 ft | 38 ft |
| Illumination | 360 fc | 160 fc | 60 fc | 29 fc | 23 fc | 15 fc |

• Optics @ 54°

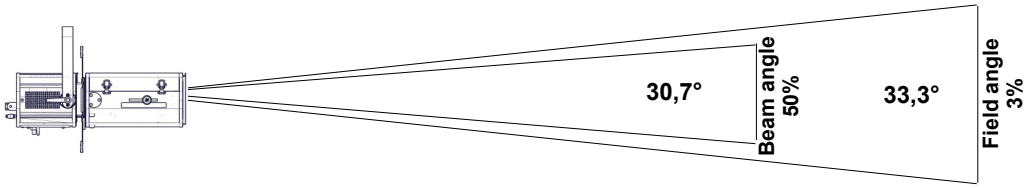
| Field lumens | Beam lumens | Efficacy | Beam intensity | CCT | Delta uv |
|--------------|-------------|----------|----------------|---------|----------|
| 9 600 Lm | 7 630 Lm | 72 Lm/W | 30 000 Cd | 5 420 K | 0.0039 |



| | | | | | | |
|----------------|-----------|-----------|---------|---------|---------|---------|
| Distance | 3 m | 5 m | 7 m | 10 m | 12 m | 15 m |
| Field diameter | 2,8 m | 4,7 m | 6,5 m | 9,3 m | 11,2 m | 14 m |
| Illumination | 3 350 lux | 1 250 lux | 620 lux | 310 lux | 210 lux | 140 lux |
| Distance | 10 ft | 15 ft | 25 ft | 35 ft | 40 ft | 50 ft |
| Field diameter | 9,3 ft | 14 ft | 23,3 ft | 32,6 ft | 37,3 ft | 46,6 ft |
| Illumination | 310 fc | 140 fc | 49 fc | 25 fc | 19 fc | 13 fc |

• Optics @ 28°

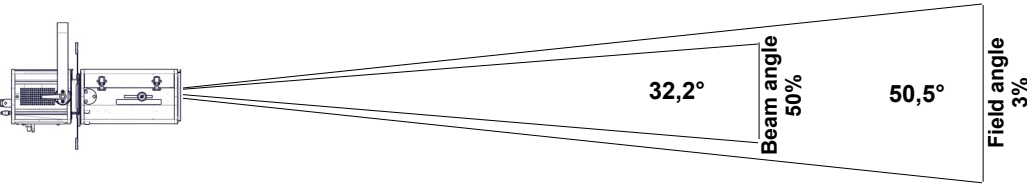
| Field lumens | Beam lumens | Efficacy | Beam intensity | CCT | Delta uv |
|--------------|-------------|----------|----------------|---------|----------|
| 9 540 Lm | | | 81 700 Cd | 5 290 K | |



| | | | | | | |
|----------------|-----------|-----------|-----------|---------|---------|---------|
| Distance | 3 m | 5 m | 7 m | 10 m | 12 m | 15 m |
| Field diameter | 1,8 m | 3 m | 4,2 m | 6 m | 7,2 m | 9 m |
| Illumination | 9 100 lux | 3 300 lux | 1 700 lux | 820 lux | 570 lux | 370 lux |
| Distance | 10 ft | 15 ft | 25 ft | 35 ft | 40 ft | 50 ft |
| Field diameter | 6 ft | 9 ft | 15 ft | 20,9 ft | 23,9 ft | 29,9 ft |
| Illumination | 820 fc | 370 fc | 140 fc | 70 fc | 55 fc | 33 fc |

• Optics @ 54°

| Field lumens | Beam lumens | Efficacy | Beam intensity | CCT | Delta uv |
|--------------|-------------|----------|----------------|---------|----------|
| 10 750 Lm | | | 35 700 Cd | 5 240 K | |

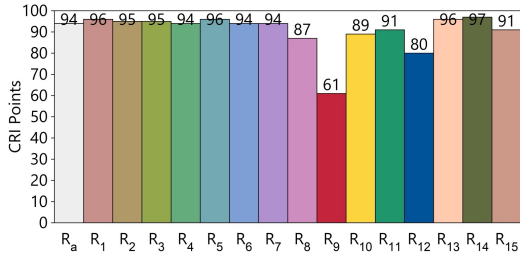


| | | | | | | |
|----------------|-----------|-----------|---------|---------|---------|---------|
| Distance | 3 m | 5 m | 7 m | 10 m | 12 m | 15 m |
| Field diameter | 2,8 m | 4,7 m | 6,6 m | 9,4 m | 11,3 m | 14,1 m |
| Illumination | 4 000 lux | 1 450 lux | 730 lux | 360 lux | 250 lux | 160 lux |
| Distance | 10 ft | 15 ft | 25 ft | 35 ft | 40 ft | 50 ft |
| Field diameter | 9,4 ft | 14,1 ft | 23,6 ft | 33 ft | 37,7 ft | 47,2 ft |
| Illumination | 360 fc | 160 fc | 60 fc | 30 fc | 23 fc | 15 fc |

Light quality report

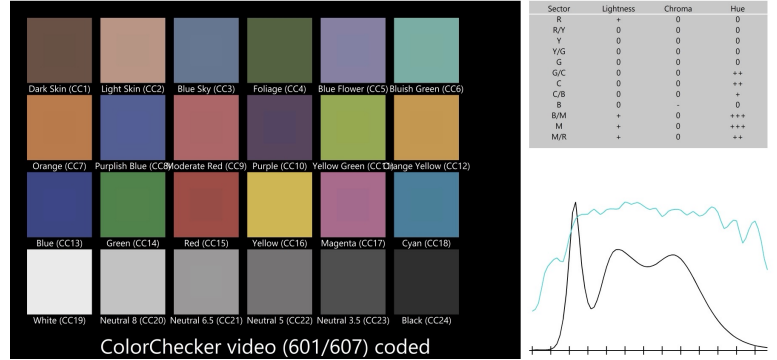
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|--------|---------|--------|--------|--------|------------|------------|------|-------------|
| 5 180K | 0.0040 | 94 | 61 | 94 | 93 | 102 | 90 | 72 |

CRI - CIE Colour Rendering Index

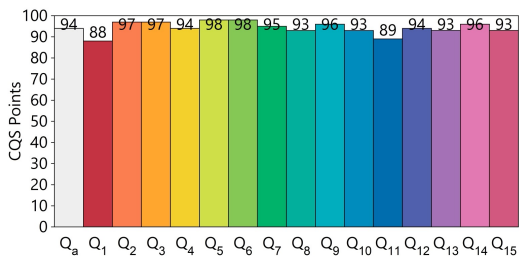


TLCI - Television Lighting Consistency Index

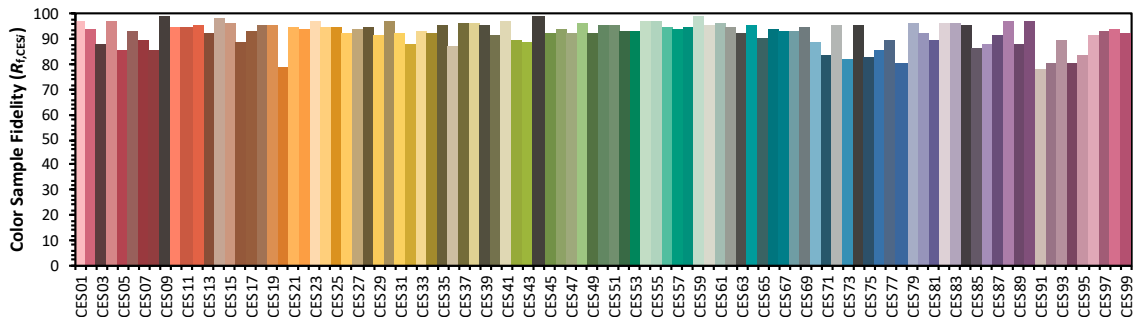
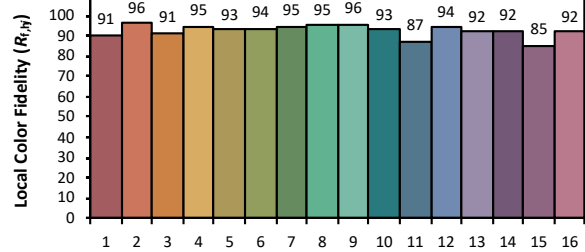
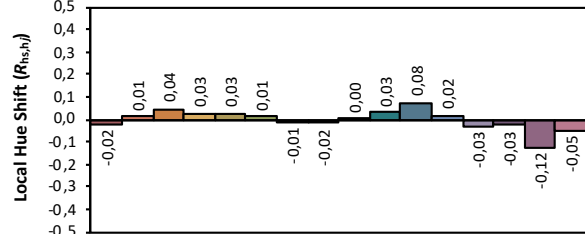
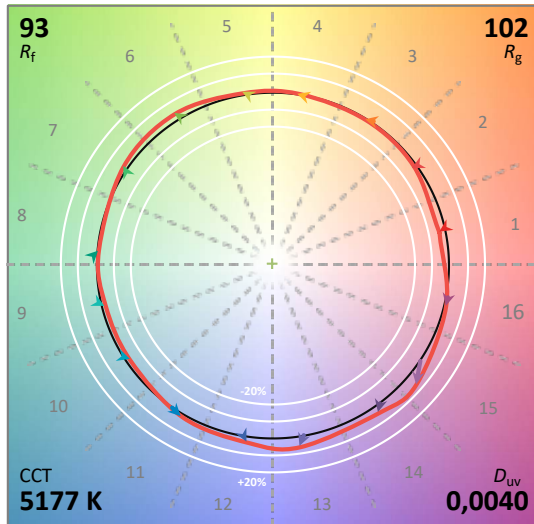
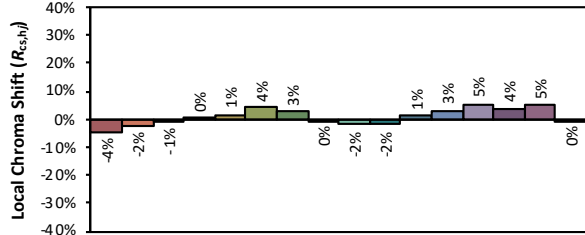
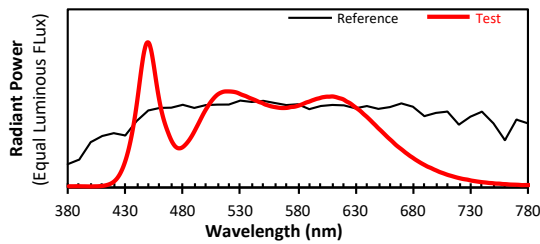
Test : CCT = D5177 (+0.1)
 TLCI-2012 : 90 (D5177)



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