# ZEP2 - 663SX2 WW

660SX - LED 300 W

Profile spot

- **Type:** Profile spot
- **Source:** LED 300 W
- **Optics:** 28° to 54° zoom
- **Colour temperature:** Warm white

## Enhanced LED performance for the ZEP2 member!

Equipped with an enhanced white LED source providing a higher light quality and output, the ZEP 660 SX2 LED profile spot can be used as a direct complement or replacement for traditional 1k or 2k units but uses only 300W of long life LED power resulting in huge cost saving. Designed with Robert Juliat's trademark qualities of ergonomic perfection, optical and mechanical excellence, ZEP2 features a smooth flat beam, an excellent colour rendering index and suit every application from the smallest theatre to the largest spectacular.

### 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
- **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
- **Remote setup:** all parameters can be adjusted by RDM protocol
- **Adjustable response time:** choice of fast or slow dimming for tungsten-like simulation
- **DMX:** 8 or 16 bit dimming and strobe function
- **Local setup:** dMX address and mode, dimming curve and response time through 4-button display with automatic light switch-off
- **Control:** local, DMX, wireless DMX (option)
- **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
- **SX optical system:** double condenser optics for exceptional optical quality
- **Coated double condenser optical system:** ensures optimal light transmission
- **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:** 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
- **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:664SX

DSEN318_663SX2_WW - 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.
**Robert Juliat S.A.S., 32 rue de Beaumont, 60530 Fresnoy-en-Thelle - France**
**Telephone : +33 (0)3 44 26 51 89 - info@robertjuliat.fr - www.robertjuliat.com**

ROBERT JULIAT

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

- **Lamp type:** LED
- **Power:** 247 W

| LED specifications | Power * | Lumen output* | Colour temperature* | Life* | CRI* (min) |
|---|---|---|---|---|---|
| SUHD60 V3 WW (RJ / Osram) | 247 W | 22 575 lm | 3000K | 100 000 h | 92 |

*(*) manufacturer's data*

## Optics

### Characteristics

- **Type:** Zoom
- **Range:** 28° to 54° (Field angle)
- **Focal length:** 79 - 160 mm

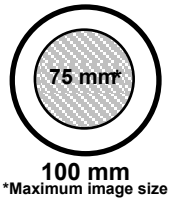
### Gel filter

- **Shape:** Square
- **Standard size:** 180x180 mm (7.1x7.1 in)
- **Optional size:** 185x185 mm (7.3x7.3 in)

*Front extension cassette for 215x215mm accessories recommended for dark colours*

### Gobo

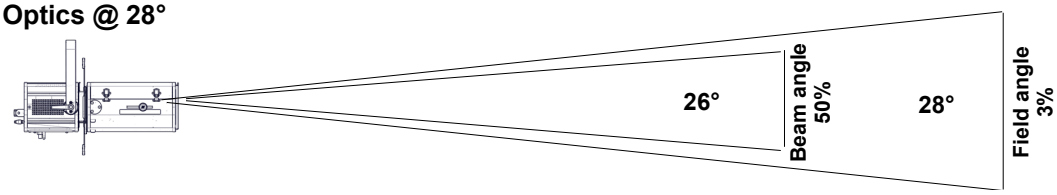
- **Size:** A
- **Material:** Metal
  Glass




## Photometrics

optics: 28°-54° / Standard

### • Optics @ 28°



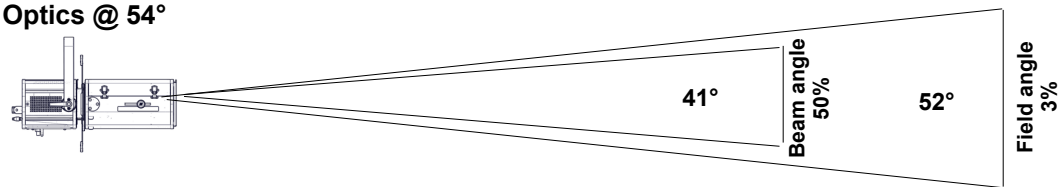

**Beam intensity**
68 100 cd

**Field lumens**
10 410 lm

**Efficacy**
36 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** | 7 600 lux | 2 750 lux | 1 400 lux | 690 lux | 480 lux | 310 lux |
| **Distance** | 10 ft | 15 ft | 25 ft | 35 ft | 40 ft | 50 ft |
| **Diameter** | 5 ft | 7.5 ft | 12.5 ft | 17.5 ft | 19.9 ft | 24.9 ft |
| **Illumination** | 690 fc | 310 fc | 110 fc | 60 fc | 43 fc | 28 fc |

### • Optics @ 54°




**Beam intensity**
22 800 cd

**Field lumens**
9 870 lm

**Efficacy**
35 lm/W

| | | | | | | |
|---|---|---|---|---|---|---|
| **Distance** | 3 m | 5 m | 7 m | 10 m | 12 m | 15 m |
| **Diameter** | 2.9 m | 4.9 m | 6.8 m | 9.8 m | 11.7 m | 14.6 m |
| **Illumination** | 2 550 lux | 920 lux | 470 lux | 230 lux | 160 lux | 110 lux |
| **Distance** | 10 ft | 15 ft | 25 ft | 35 ft | 40 ft | 50 ft |
| **Diameter** | 9.8 ft | 14.6 ft | 24.4 ft | 34.1 ft | 39 ft | 48.8 ft |
| **Illumination** | 230 fc | 110 fc | 37 fc | 19 fc | 15 fc | 10 fc |

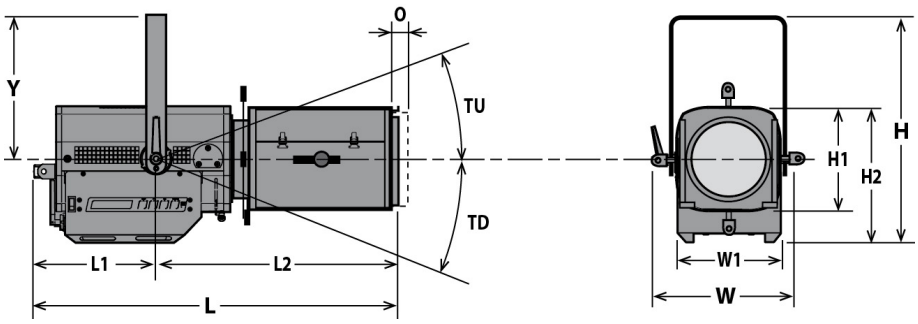
## Remote control

- **Data protocol:** USITT DMX512-A
  RDM
- **Data IN connector:** 5 pins XLR male
- **Data OUT connector** 5 pins XLR femelle

- **DMX chart:**

| Mode 1 (1 channels) | Mode 2 (4 channels) | Mode 3 (5 channels) |
|---|---|---|
| Dimmer | Dimmer | Dimmer |
| | Dimmer fine | Dimmer fine |
| | - | - |
| | Strobe | Strobe |
| | | Dimmer master |

## Dimensions and weight




**Weight:** 16.5 kg (36.3 lbs)

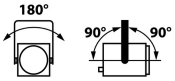
| Height | Length | Width | Yoke | Tilt | Option |
|---|---|---|---|---|---|
| H= 447 mm (17.6 in)<br>H1= 208 mm (8.2 in)<br>H2= 268 mm (10.6 in) | L= 682 mm (26.9 in)<br>L1= 241 mm (9.5 in)<br>L2= 441 mm (17.4 in) | W= 330 mm (13 in)<br>W1= 208 mm (8.2 in) | Y= 280 mm (11 in) | TU= 60°<br>TD= 90° | O= 25 mm (1 in) |

## Shipping

- **Weight :** 19.6 kg (43.1 lbs)
- **Volume :** .13 $m^3$ (4.59 $ft^3$)

## Installation

- **Minimum distance to illuminated surface:** 0.7 m ( 2.3 ft )
- **Operating position:**




## Warranty

- **Fixture: 3 years - Source: 5 years**

*See General Sales Condition on website*

## Approvals

CE

## Acoustics

- **Noise level: < 24,9 dB(A)**

## Construction

- **Housing:** Steel sheet - Aluminium
- **Colour:** Black
- **Cooling:** Low noise variable fan
- **Maximum ambient temperature (Ta):** 40°C (104°F)
- **Maximum case temperature (Tc):** 70°C (158°F)
- **Total heat dissipation:** 976 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 | 1.3 A | 286 W | 0.97 |
| 120 V | 60 Hz | 2.5 A | 291 W | 0.99 |
| 100 V | 60 Hz | 3 A | 295 W | 0.99 |

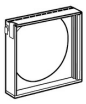
## Power Supply Unit

- **PSU:** Internal - Electronic PSU - Flicker free with PFC
- **Control:** Local / DMX
- **Protection:** Mains: 4A 1P1D breaker - UL /
- **Power thru:** Neutrik powerCON TRUE1 TOP - Maximum of 10 units (230 V) / 5 units (120 V)

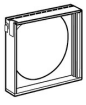
## Model

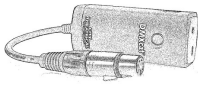
| | |
|---|---|
| **663SX2 WW** | LED 300 W Profile spot - 663SX2 WW ZEP2 - Warm White - 28/54° |

## Options

| | | |
|---|---|---|
| **CAV600** | Double slot front cassette for 180x180mm accessories |  |
| **CAV600E** | Double slot front cassette for 185x185mm accessories | |
| **PCP1716A** | 16A blue 2P+E 6h IEC60309 power connector | |
| **W-DMX/Z** | W-DMX wireless DMX | |

## Accessories

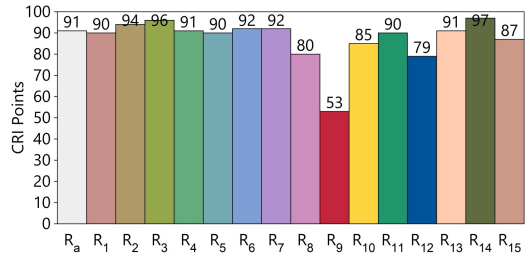
| | | |
|---|---|---|
| **D8** | Shutter for SX series<br>**4 included** | |
| **PF500M2** | 180x180mm metal filter holder<br>**1 included** | |
| **SGUX** | Universal "A" size gobo-holder (metal, glass, frosted glass)<br>**1 included** | |
| **IWSX755** | Drop-in iris (monoplane) with holder - Poids: 0.26 Kg | |
| **D8** | Shutter for SX series | |
| **PF600M2** | 185x185mm metal filter holder | |
| **G500** | 180x180mm safety grid | |
| **CAV600A** | Double slot front cassette for 180x180mm accessories - Poids: 0.43 Kg | |
| **CAV600AE** | Double slot front cassette for 185x185mm accessories - Poids: 0.45 Kg |  |
| **RPF613** | 180x180mm front extension cassette for 215x215mm accessories without fan (recommended for dark colours on 613SX/663SX) - Poids: 1.5 Kg | |
| **RPF613E** | 180x180mm front extension cassette for 245x245mm accessories without fan (recommended for dark colours on 613SX/663SX) | |
| **VD120** | 120x120mm frosted glass | |

| | | |
|---|---|---|
| **FCD600** | Angled yoke | |
| **TH600** | 180x180mm "Top hat" (without safety cable) - ø150mm / 150mm long | |
| **DMXcat** | Bluetooth DMX/RDM Multifunction test tool - City Theatrical DMXcat® |  |
| **876** | Hook clamp 40x10mm with 28mm M10 screw for Ø35 to 50mm pipes - SWL: 50Kg - Poids: 1.25 Kg | |
| **880** | Hook clamp 40x10mm with 28mm M10 screw for Ø50 to 63mm pipes - SWL: 50Kg - Poids: 1.36 Kg | |
| **CS2** | Safety cable Ø3 mm L= 600mm - SWL: 75 Kg | |

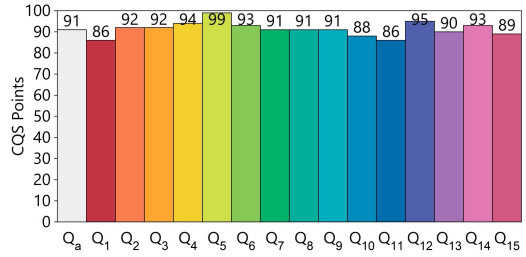
## Light quality report

| CCT | DeltaUV | CRI Ra | CRI R9 | CQS Qa | TM30-18 Rf | TM30-18 Rg | TLCI |
|---|---|---|---|---|---|---|---|
| 3 150K | 0.0002 | 91 | 53 | 91 | 91 | 100 | 90 |

### CRI - CIE Colour Rendering Index

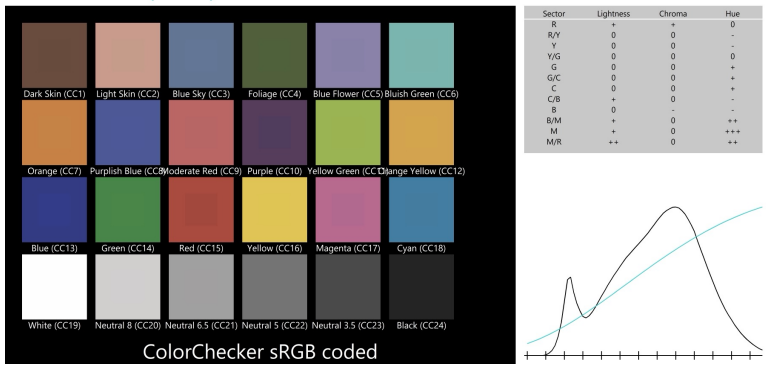



### CQS - NIST Colour Quality Scale

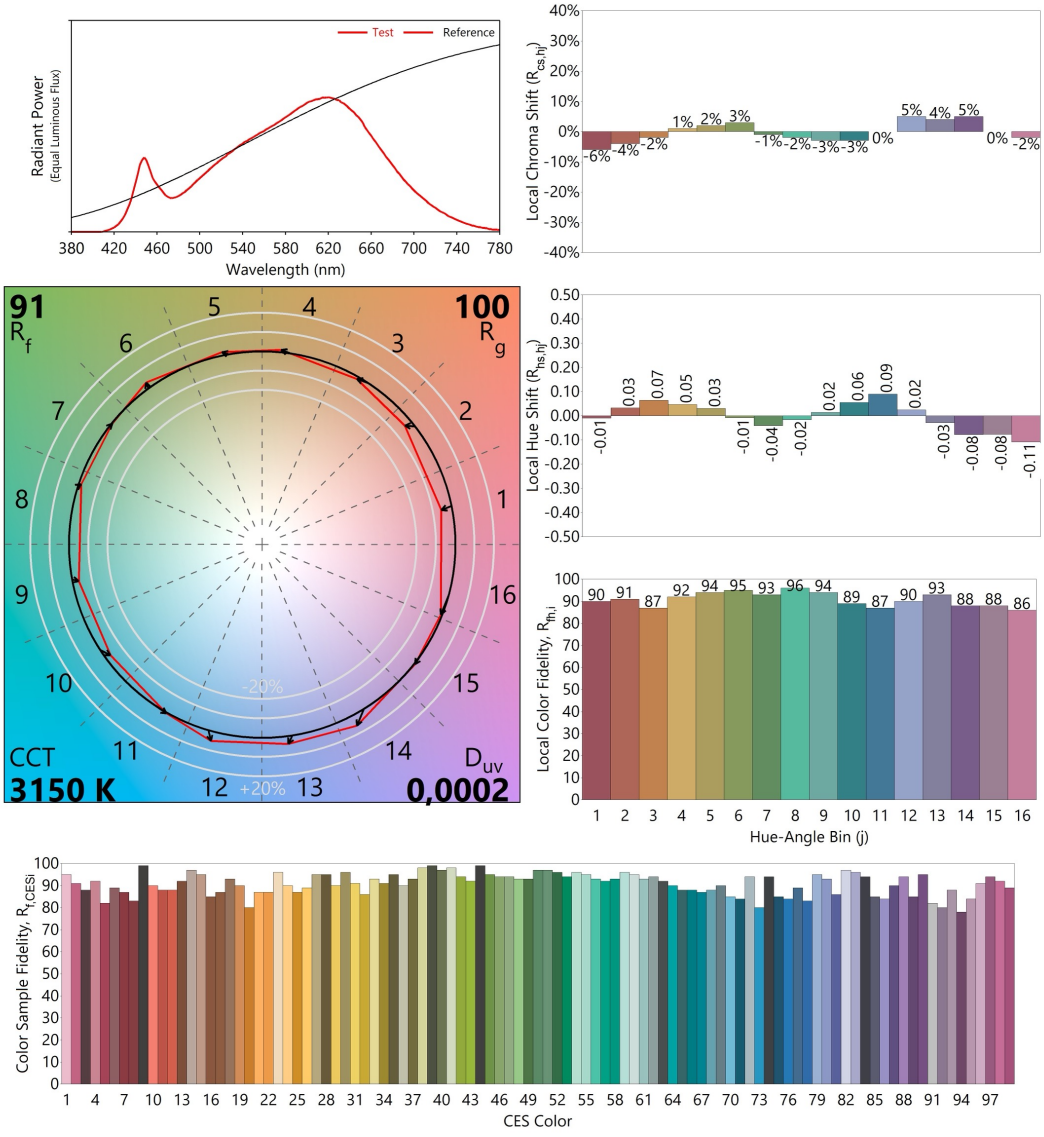



### TLCI - Television Lighting Consistency Index

Test : CCT = P3150 (0.0)
TLCI-2012 : 90 (P3150)




### 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

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