

ZEP2 - 664CSX2 NDW

660SX - LED 300 W



- **Type:** Profile spot
- **Source:** LED 300 W
- **Optics:** 16° to 35° zoom
- **Colour temperature:** Neutral Daylight White
- **Standard:** 110 V North american

Profile spot

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:** 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:664SX

DSEN332_664CSX2_NDW - 08/11/2024

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:** 247 W

| LED specifications | Power * | Lumen output* | Colour temperature* | Life* | CRI* (min) |
|----------------------------|---------|---------------|---------------------|-----------|------------|
| SUHD60 V3 NDW (RJ / Osram) | 247 W | 24 150 lm | 5000K | 100 000 h | 92 |

(*) manufacturer's data

Optics

Characteristics

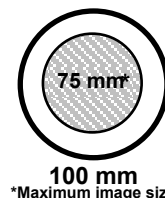
- **Type:** Zoom
- **Range:** 16° to 35° (Field angle)
- **Focal length:** 127 - 285 mm

Gel filter

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

Gobo

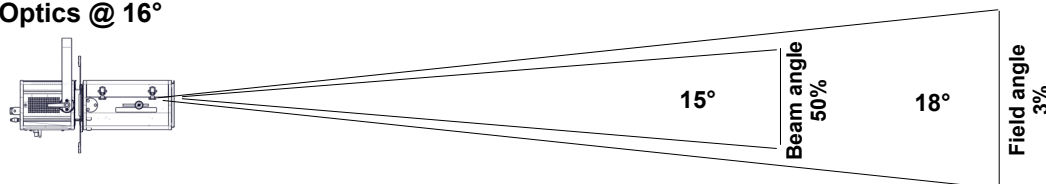
- **Size:** A
- **Material:** Metal
Glass



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

optics: 16°-35° / Standard

• Optics @ 16°



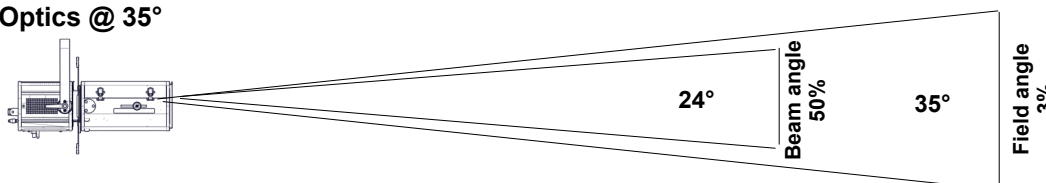
Beam intensity
250 400 cd

Field lumens
12 600 lm

Efficacy
44 lm/W

| | | | | | | |
|---------------------|------------|-----------|-----------|---------|---------|---------|
| Distance | 5 m | 10 m | 15 m | 20 m | 25 m | 30 m |
| Diameter | 1.6 m | 3.2 m | 4.8 m | 6.3 m | 7.9 m | 9.5 m |
| Illumination | 10 500 lux | 2 550 lux | 1 150 lux | 630 lux | 410 lux | 280 lux |
| Distance | 15 ft | 35 ft | 50 ft | 65 ft | 80 ft | 100 ft |
| Diameter | 4.8 ft | 11.1 ft | 15.8 ft | 20.6 ft | 25.3 ft | 31.7 ft |
| Illumination | 1 150 fc | 210 fc | 110 fc | 60 fc | 40 fc | 26 fc |

• Optics @ 35°



Beam intensity
87 400 cd

Field lumens
13 650 lm

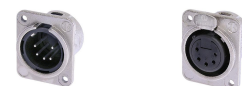
Efficacy
48 lm/W

| | | | | | | |
|---------------------|-----------|---------|---------|---------|---------|---------|
| Distance | 5 m | 10 m | 15 m | 20 m | 25 m | 30 m |
| Diameter | 3.2 m | 6.3 m | 9.5 m | 12.6 m | 15.8 m | 18.9 m |
| Illumination | 3 500 lux | 880 lux | 390 lux | 220 lux | 140 lux | 100 lux |
| Distance | 15 ft | 35 ft | 50 ft | 65 ft | 80 ft | 100 ft |
| Diameter | 9.5 ft | 22.1 ft | 31.5 ft | 41 ft | 50.4 ft | 63.1 ft |
| Illumination | 390 fc | 75 fc | 35 fc | 21 fc | 14 fc | 9 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)

Dimmer

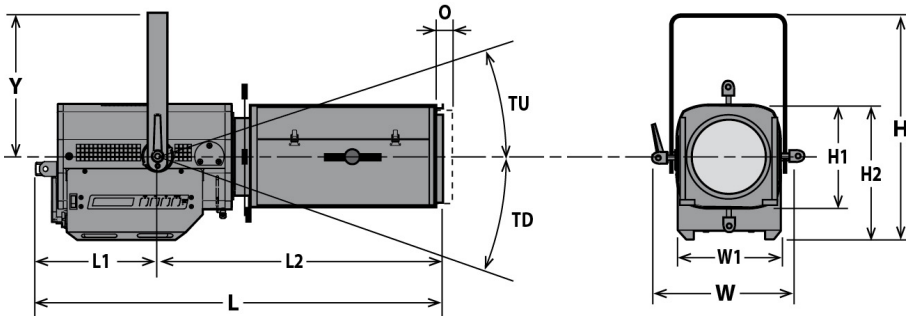
Mode 2 (4 channels)

Dimmer
Dimmer fine
-
Strobe

Mode 3 (5 channels)

Dimmer
Dimmer fine
-
Strobe
Dimmer master

Dimensions and weight



Weight: 18 kg (39.6 lbs)

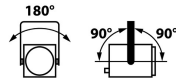
| Height | Length | Width | Yoke | Tilt | Option |
|----------------------|----------------------|---------------------|-------------------|---------|-----------------|
| H= 447 mm (17.6 in) | L= 810 mm (31.9 in) | W= 330 mm (13 in) | Y= 280 mm (11 in) | TU= 60° | O= 25 mm (1 in) |
| H1= 208 mm (8.2 in) | L1= 241 mm (9.5 in) | W1= 208 mm (8.2 in) | | TD= 90° | |
| H2= 268 mm (10.6 in) | L2= 569 mm (22.4 in) | | | | |

Shipping

- **Weight :** 20.4 kg (44.9 lbs)
- **Volume :** .16 m³ (5.65 ft³)

Installation

- **Minimum distance to illuminated surface:** 0.7 m (2.3 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):** 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 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 |
|---------|-----------|---------|-------|--------------|
| 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:** compatible powerCON® TRUE1 - Maximum of 10 units (230 V) / 5 units (120 V)

Warranty

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

Approvals



Acoustics

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

Model








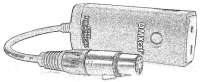



664CSX2 NDW LED 300 W Profile spot - 664CSX2 NDW ZEP2 - Neutral Daylight White - 16/35° - North american standard

Options

CAV600C Double slot front cassette for 191x191mm (7-1/2") accessories

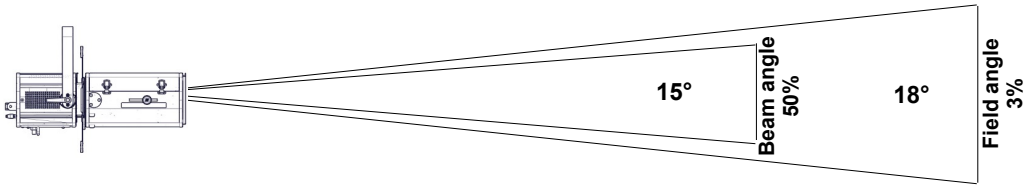


Accessories

| | | |
|-----------------|--|---|
| D8 | Shutter for SX series 4 included |  |
| SGUX | Universal "A" size gobo-holder (metal, glass, frosted glass) 1 included |  |
| IWSX755 | Drop-in iris (monoplane) with holder - Weight: 0.26 Kg |  |
| D8 | Shutter for SX series |  |
| CAV600AC | Double slot front cassette for 191x191mm (7-1/2") accessories - Weight: 0.45 Kg |  |
| VD120 | 120x120mm frosted glass |  |
| FCD600 | Angled yoke |  |
| 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 - 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 @ 16°

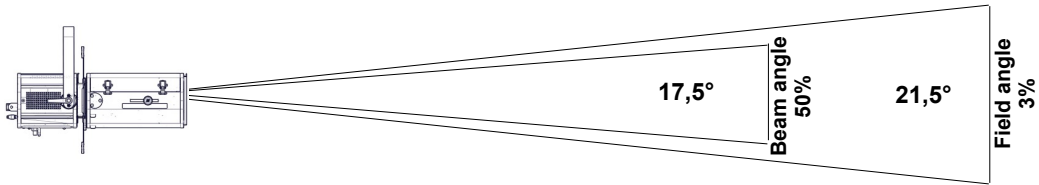
| Field lumens | Beam lumens | Efficacy | Beam intensity | CCT | Delta uv |
|--------------|-------------|----------|----------------|---------|----------|
| 12 600 Lm | | 44 Lm/W | 250 400 Cd | 5 130 K | |



| | | | | | | |
|----------------|------------|-----------|-----------|---------|---------|---------|
| Distance | 5 m | 10 m | 15 m | 20 m | 25 m | 30 m |
| Field diameter | 1,6 m | 3,2 m | 4,8 m | 6,3 m | 7,9 m | 9,5 m |
| Illumination | 10 500 lux | 2 550 lux | 1 150 lux | 630 lux | 410 lux | 280 lux |
| Distance | 15 ft | 35 ft | 50 ft | 65 ft | 80 ft | 100 ft |
| Field diameter | 4,8 ft | 11,1 ft | 15,8 ft | 20,6 ft | 25,3 ft | 31,7 ft |
| Illumination | 1 150 fc | 210 fc | 110 fc | 60 fc | 40 fc | 26 fc |

• Optics @ 22°

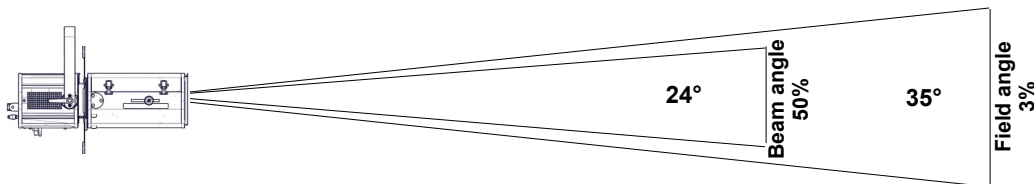
| Field lumens | Beam lumens | Efficacy | Beam intensity | CCT | Delta uv |
|--------------|-------------|----------|----------------|---------|----------|
| 12 880 Lm | | 45 Lm/W | 188 700 Cd | 5 220 K | |



| | | | | | | |
|----------------|-----------|-----------|---------|---------|---------|---------|
| Distance | 5 m | 10 m | 15 m | 20 m | 25 m | 30 m |
| Field diameter | 1,9 m | 3,8 m | 5,7 m | 7,6 m | 9,5 m | 11,4 m |
| Illumination | 7 600 lux | 1 900 lux | 840 lux | 480 lux | 310 lux | 210 lux |
| Distance | 15 ft | 35 ft | 50 ft | 65 ft | 80 ft | 100 ft |
| Field diameter | 5,7 ft | 13,3 ft | 19 ft | 24,7 ft | 30,4 ft | 38 ft |
| Illumination | 840 fc | 160 fc | 80 fc | 45 fc | 30 fc | 19 fc |

• Optics @ 35°

| Field lumens | Beam lumens | Efficacy | Beam intensity | CCT | Delta uv |
|--------------|-------------|----------|----------------|---------|----------|
| 13 650 Lm | | 48 Lm/W | 87 400 Cd | 5 190 K | |

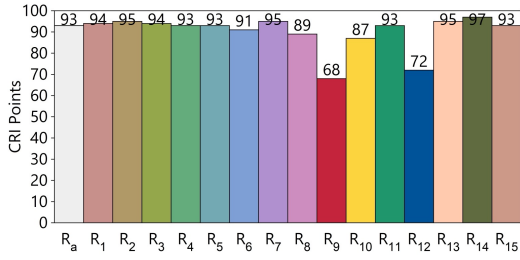


| | | | | | | |
|----------------|-----------|---------|---------|---------|---------|---------|
| Distance | 5 m | 10 m | 15 m | 20 m | 25 m | 30 m |
| Field diameter | 3,2 m | 6,3 m | 9,5 m | 12,6 m | 15,8 m | 18,9 m |
| Illumination | 3 500 lux | 880 lux | 390 lux | 220 lux | 140 lux | 100 lux |
| Distance | 15 ft | 35 ft | 50 ft | 65 ft | 80 ft | 100 ft |
| Field diameter | 9,5 ft | 22,1 ft | 31,5 ft | 41 ft | 50,4 ft | 63,1 ft |
| Illumination | 390 fc | 75 fc | 35 fc | 21 fc | 14 fc | 9 fc |

Light quality report

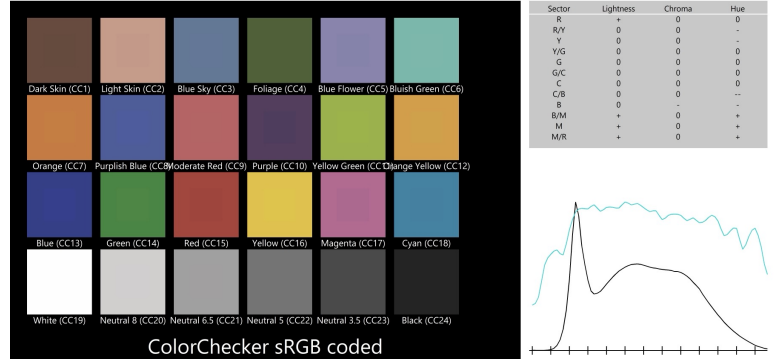
| CCT | DeltaUV | CRI Ra | CRI R9 | CQS Qa | TM30-18 Rf | TM30-18 Rg | TLCI |
|--------|---------|--------|--------|--------|------------|------------|------|
| 5 450K | 0.0009 | 93 | 68 | 90 | 91 | 99 | 94 |

CRI - CIE Colour Rendering Index

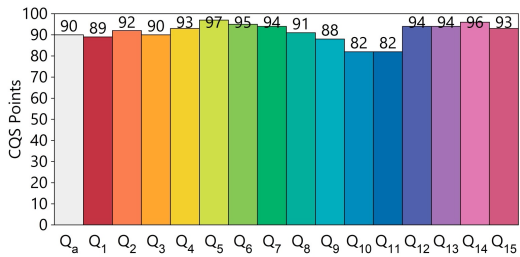


TLCI - Television Lighting Consistency Index

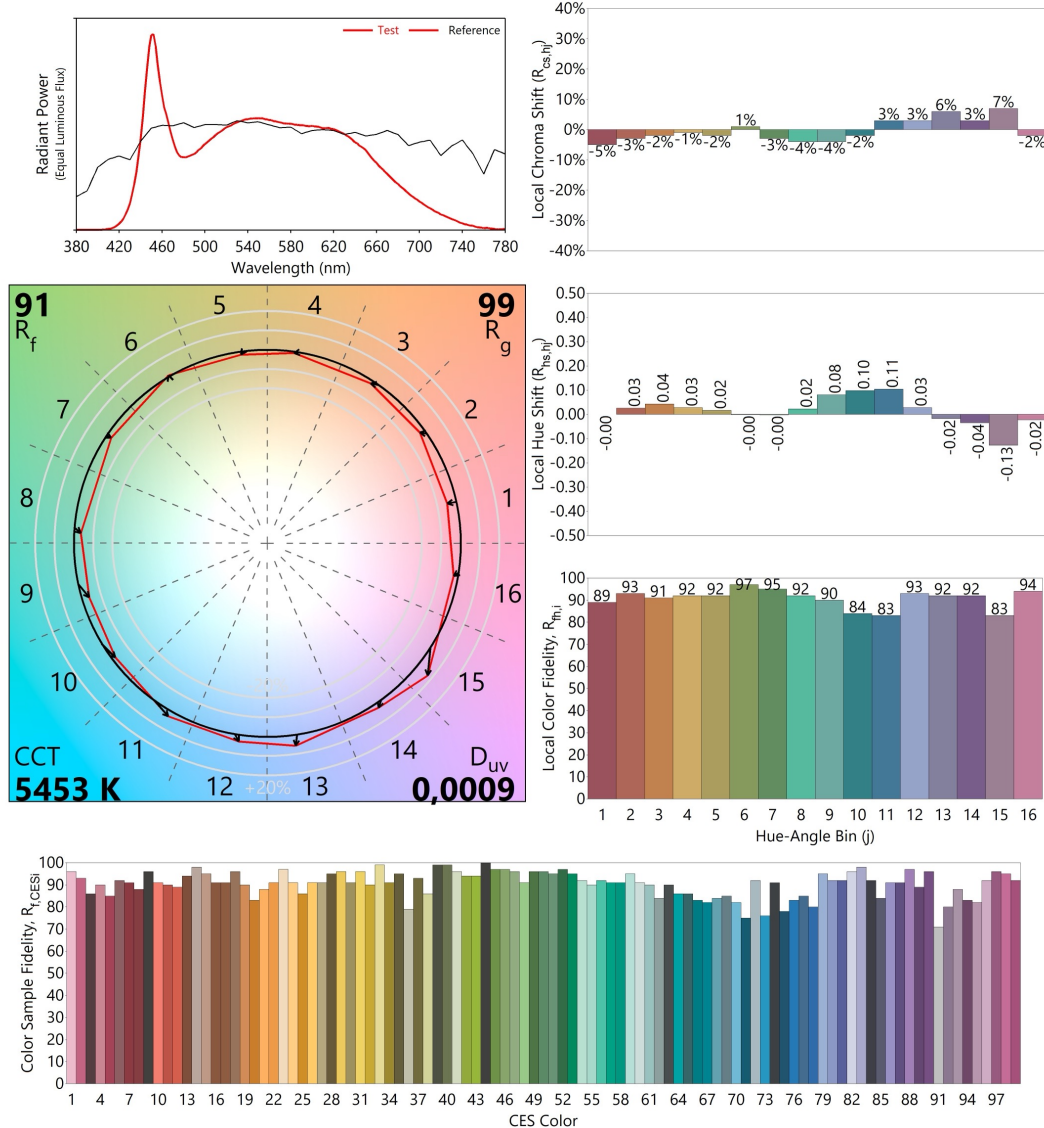
Test : CCT = D5453 (-0.4)
 TLCI-2012 : 94 (D5453)



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