

# ZEP2 - 663SX2 NDW

660SX - LED 300 W



- **Type:** Profile spot
- **Source:** LED 300 W
- **Optics:** 28° to 54° zoom
- **Colour temperature:** Neutral Daylight White

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:** 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

DSEN320\_663SX2\_NDW - 23/03/2022

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 - fax : +33 (0)3 44 26 90 79 - info@robertjuliat.fr  
www.robertjuliat.com



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**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

Life data following L70B50 standard - (\*) manufacturer's data

## Optics

### Characteristics

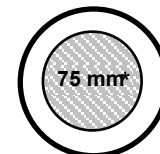
- **Type:** Zoom
- **Beam range:** 28° to 54°
- **Focal length:** 79 - 160 mm

### 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

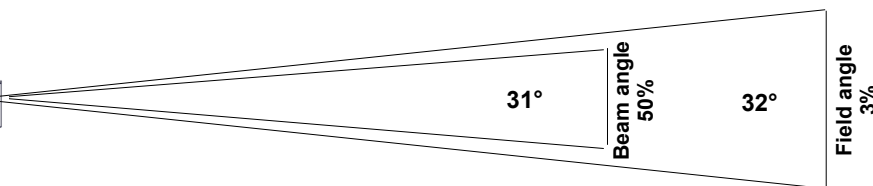
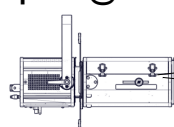


100 mm  
\*Maximum image size

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

with SUHD60 V3 NDW (RJ / Osram) source

### • Optics @ 28°



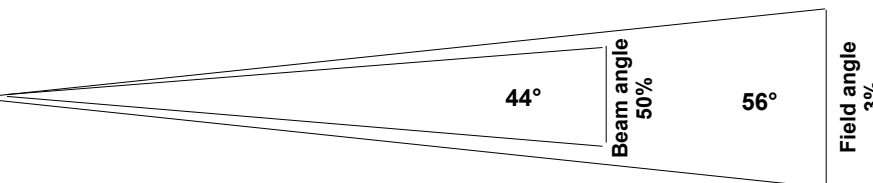
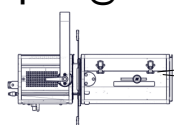
**Beam intensity**  
55 800 cd

**Field lumens**  
11 040 lm

**Efficacy**  
39 lm/W

<b>Distance</b>	3 m	5 m	7 m	10 m	12 m	15 m
<b>Diameter</b>	1.7 m	2.9 m	4 m	5.7 m	6.9 m	8.6 m
<b>Illumination</b>	6 300 lux	2 250 lux	1 150 lux	560 lux	390 lux	250 lux
<b>Distance</b>	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
<b>Diameter</b>	5.7 ft	8.6 ft	14.3 ft	20.1 ft	22.9 ft	28.7 ft
<b>Illumination</b>	560 fc	250 fc	90 fc	46 fc	35 fc	23 fc

### • Optics @ 54°



**Beam intensity**  
28 700 cd

**Field lumens**  
14 170 lm

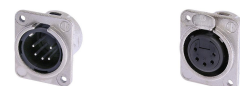
**Efficacy**  
50 lm/W

<b>Distance</b>	3 m	5 m	7 m	10 m	12 m	15 m
<b>Diameter</b>	3.2 m	5.3 m	7.4 m	10.6 m	12.8 m	16 m
<b>Illumination</b>	3 200 lux	1 150 lux	590 lux	290 lux	200 lux	130 lux
<b>Distance</b>	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
<b>Diameter</b>	10.6 ft	16 ft	26.6 ft	37.2 ft	42.5 ft	53.2 ft
<b>Illumination</b>	290 fc	130 fc	46 fc	24 fc	18 fc	12 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

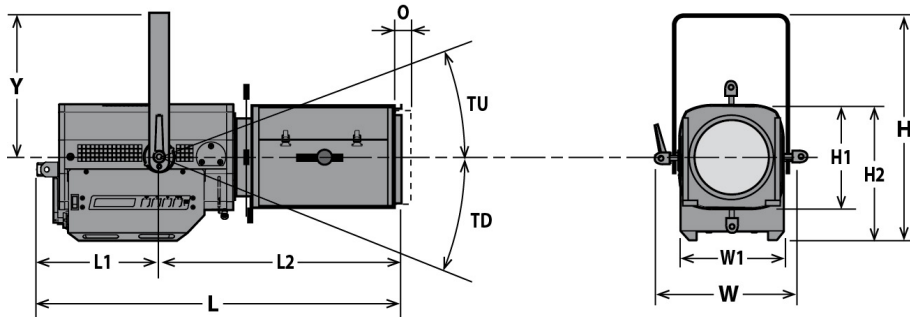
#### Mode 2 (4 channels)

Dimmer  
Dimmer fine  
-  
Strobe

#### Mode 3 (5 channels)

Dimmer  
Dimmer fine  
-  
Strobe  
Dimmer master

## Dimensions and weight



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

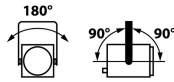
Height	Length	Width	Yoke	Tilt	Option
H= 447 mm (17.6 in)	L= 682 mm (26.9 in)	W= 330 mm (13 in)	Y= 280 mm (11 in)	TU= 60°	O= 25 mm (1 in)
H1= 208 mm (8.2 in)	L1= 241 mm (9.5 in)	W1= 208 mm (8.2 in)		TD= 90°	
H2= 268 mm (10.6 in)	L2= 441 mm (17.4 in)				

## Shipping

- **Weight :** 19.6 kg (43.1 lbs)
- **Volume :** .13 m<sup>3</sup> (4.59 ft<sup>3</sup>)

## 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 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)

## Warranty

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

## Approvals







## Acoustics

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













## Model


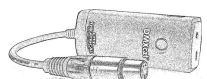



**663SX2 NDW** LED 300 W Profile spot - 663SX2 NDW ZEP2 - Neutral Daylight White - 28/54°

## Options

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

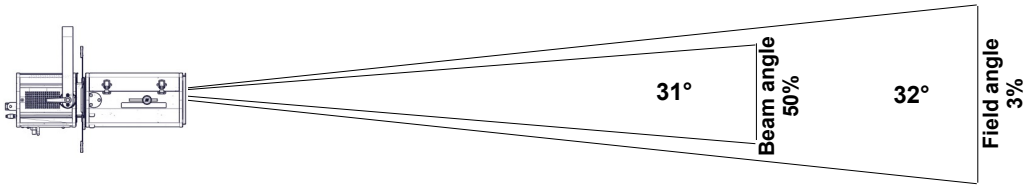
## Accessories

<b>D8</b>	Shutter for SX series <b>4 included</b>	
<b>PF500M2</b>	180x180mm metal filter holder <b>1 included</b>	
<b>SGUX</b>	Universal "A" size gobo-holder (metal, glass, frosted glass) <b>1 included</b>	
<b>IWSX755</b>	Drop-in iris (monoplane) with holder - Poids: 0.26 Kg	
<b>PF600M2</b>	185x185mm metal filter holder	
<b>G500</b>	180x180mm safety grid	
<b>CAV600A</b>	Double slot front cassette for 180x180mm accessories - Poids: 0.43 Kg	
<b>CAV600AE</b>	Double slot front cassette for 185x185mm accessories - Poids: 0.45 Kg	
<b>RPF613</b>	180x180mm front extension cassette for 215x215mm accessories without fan (recommended for dark colours on 613SX/663SX) - Poids: 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>FCD600</b>	Angled yoke	

<b>TH600</b>	180x180mm "Top hat" (without safety cable) - ø150mm / 150mm long	
<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	

• Optics @ 28°

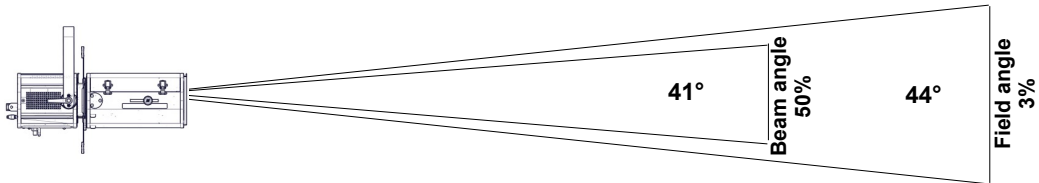
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
11 040 Lm		39 Lm/W	55 800 Cd	5 130 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	1,7 m	2,9 m	4 m	5,7 m	6,9 m	8,6 m
Illumination	6 300 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	5,7 ft	8,6 ft	14,3 ft	20,1 ft	22,9 ft	28,7 ft
Illumination	560 fc	250 fc	90 fc	46 fc	35 fc	23 fc

• Optics @ 44°

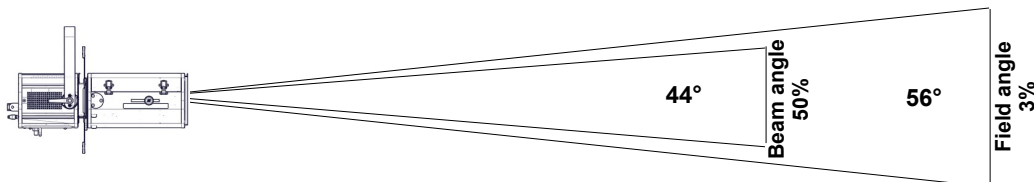
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
13 700 Lm		48 Lm/W	39 400 Cd	5 070 K	



Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	2,4 m	4 m	5,7 m	8,1 m	9,7 m	12,1 m
Illumination	4 400 lux	1 600 lux	810 lux	400 lux	280 lux	180 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	8,1 ft	12,1 ft	20,2 ft	28,3 ft	32,3 ft	40,4 ft
Illumination	400 fc	180 fc	65 fc	33 fc	25 fc	16 fc

• Optics @ 54°

Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
14 170 Lm		50 Lm/W	28 700 Cd	5 120 K	

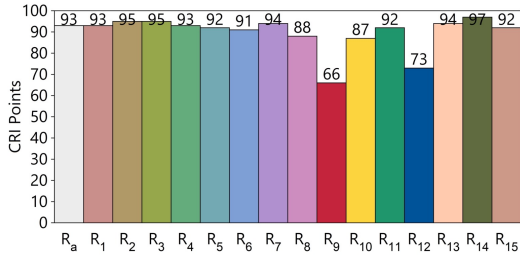


Distance	3 m	5 m	7 m	10 m	12 m	15 m
Field diameter	3,2 m	5,3 m	7,4 m	10,6 m	12,8 m	16 m
Illumination	3 200 lux	1 150 lux	590 lux	290 lux	200 lux	130 lux
Distance	10 ft	15 ft	25 ft	35 ft	40 ft	50 ft
Field diameter	10,6 ft	16 ft	26,6 ft	37,2 ft	42,5 ft	53,2 ft
Illumination	290 fc	130 fc	46 fc	24 fc	18 fc	12 fc

# Light quality report

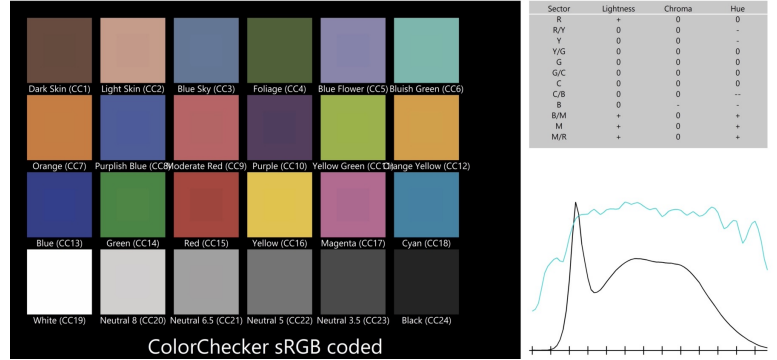
CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI
5 180K	0.0009	93	66	90	90	99	93

## CRI - CIE Colour Rendering Index

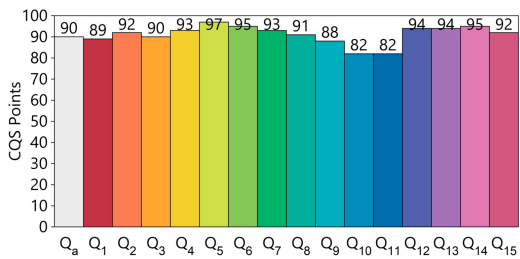


## TLCI - Television Lighting Consistency Index

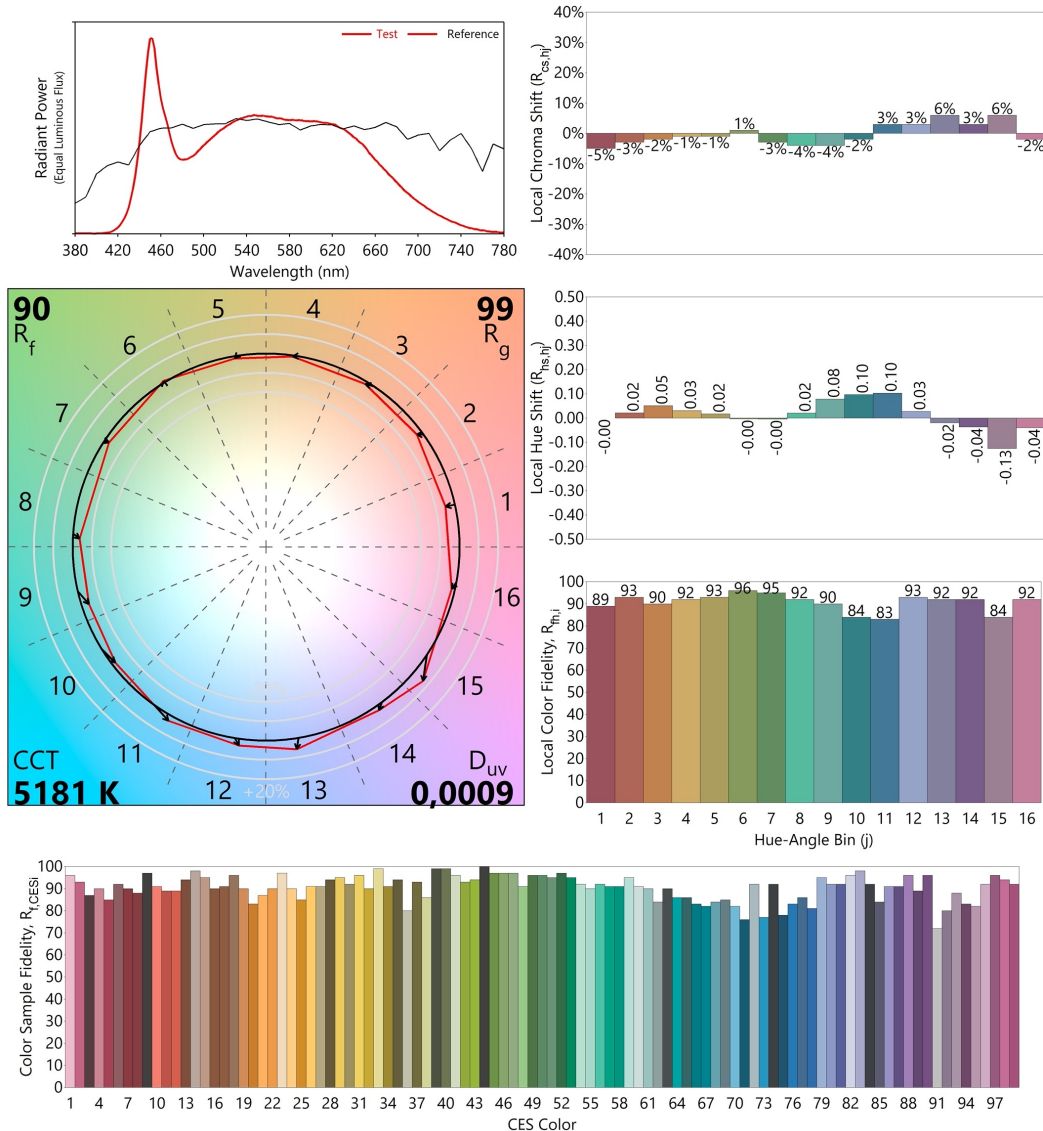
Test : CCT = D5181 (-0.4)  
 TLCI-2012 : 93 (D5181)



## 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