TRISTAN - 1189 VW

LED COMPACT - LED 825W - VARIABLE WHITE

Followspot



- **Type:** Followspot
- **Source:** LED 825W - Variable White
- **Optics:** 7° to 14.5° zoom
- **Colour temperature:** 3000K --> 6300K

Compact, powerful and versatile

With its 825W LED source, Tristan followspot provides high output with a 7°-14° zoom range to rival the traditional 1800W MSR followspots, within the compact body of a 1200W model. The variable white source offers greater versatility and eliminates the need for physical color correction filters, simplifying setup and reducing consumable costs. The colour temperature can be controlled remotely from the console allowing real-time adjustments. Unique to Tristan, the motorized iris enables the creation of iris presets. It will be equally at ease in front-of-house, truss and backlight positions.

Features

- **Motorised fully closing iris:** makes it possible to store presets for fast cues
- **Colour Temperature (CCT):** adjustable whites from 3000 to 6300K
- **Universal adjustable gobo holder:** "A" size glass and metal gobos
- **Ergonomic dimmer control:** one-handed dim, pan and tilt
- **Local control:** light intensity and beam size (iris) adjustment through built-in potentiometers
- **Frost filter:** on flip lever for quick soft-edge beam effect
- **Horizontal chopper (optional):** for masking control in TV studios and wide stages
- **Internal filter holder:** for long-term use of frost optical filters
- **Individually removable colour frame:** gels replaced easily while colour cassette remains in place
- **Colour changer:** 6-way, self-cancelling boomerang colour-changer
- **Remote display:** an optional second display can be connected anywhere on the unit to have simultaneous view of the stage and iris / intensity values
- **Remote controllers:** optional controllers can be connected to operate the followspot from any position (back, side...)
- **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, iris, CCT, response time and strobe function
- **Easy focus reference:** graduated scale on side of the unit; fast and easy refocusing
- **Stand:** perfectly weighted for maximum stability with smooth rotation for optimum performance. Easy set up; triple safety system for extra security

Optical

- **Long life:** outstanding operational lifetime expectation, no need to replace lamps, low maintenance
- **Native high CRI LED source:** CRI > 90 - perfect for performer illumination - no need for correction filter
- **Powerful neutral whites:** maximum light output between 4500 and 5000 Kelvins
- **Gobo :** excellent gobo projection
- **Optical quality:** smooth flat beam, no hot spot
- **Variable zoom optics:** sharp focus at every beam angle. Independent control of image size and focus.
- **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
- **3 cooling modes available:** includes a silent mode for perfect integration in concert halls
- **Bodywork:** strong sheet metal construction for durability
- **Ergonomic wrap-around handle:** comfort, safety and practicality from all operating positions
- **Moving parts:** smooth at all times, even when hot
- **Captive knobs and handles:** additional security when working at height or in transit
- **Fine balance:** precision positioning and smooth operation even with the smallest movements
- **Easy access to all parts:** easy cleaning and maintenance

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

Picture:1189

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

- **Lamp type:** LED
- **Power:** 800 W

LED specifications	Power *	Lumen output*	Colour temperature*	Life*	
TVW02	800 W		3000K --> 6300K	30 000 h	95

(*) manufacturer's data

Optics

Characteristics

- **Type:** Zoom
- **Range:** 7° to 14.5° (Field angle)
- **Focal length:** - mm

Gel filter

- **Shape:** Circle
- **Standard size:** 210 mm (8.3 in)

Gobo

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

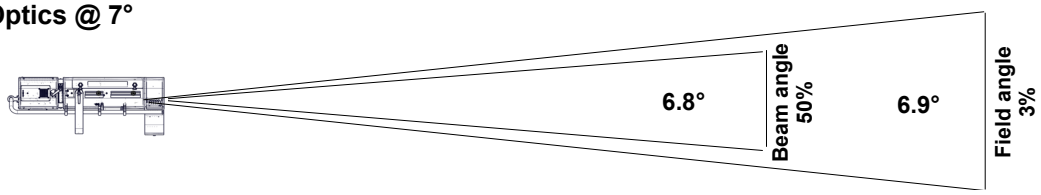


100 mm
***Maximum image size**

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

optics: 7°-14,5° / Standard / 5000 K

• Optics @ 7°



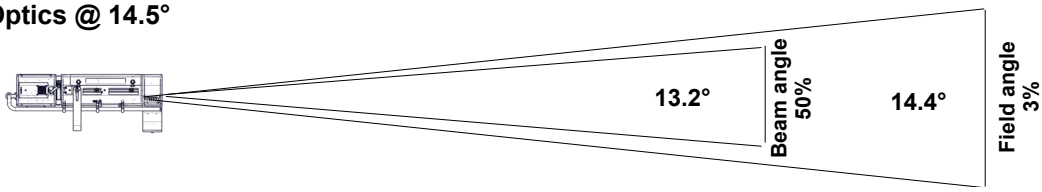
Beam intensity
1 355 600 cd

Field lumens
12 610 lm

Efficacy
13 lm/W

Distance	10 m	20 m	30 m	40 m	50 m	60 m
Diameter	1.2 m	2.4 m	3.6 m	4.8 m	6 m	7.2 m
Illumination	14 000 lux	3 400 lux	1 550 lux	850 lux	550 lux	380 lux
Distance	35 ft	65 ft	100 ft	130 ft	165 ft	195 ft
Diameter	4.2 ft	7.8 ft	12.1 ft	15.7 ft	19.9 ft	23.5 ft
Illumination	1 150 fc	330 fc	140 fc	85 fc	50 fc	36 fc

• Optics @ 14.5°



Beam intensity
520 700 cd

Field lumens
17 710 lm

Efficacy
19 lm/W

Distance	10 m	20 m	30 m	40 m	50 m	60 m
Diameter	2.5 m	5.1 m	7.6 m	10.1 m	12.6 m	15.2 m
Illumination	5 300 lux	1 350 lux	580 lux	330 lux	210 lux	150 lux
Distance	35 ft	65 ft	100 ft	130 ft	165 ft	195 ft
Diameter	8.8 ft	16.4 ft	25.3 ft	32.8 ft	41.7 ft	49.3 ft
Illumination	430 fc	130 fc	55 fc	31 fc	20 fc	14 fc

Remote control

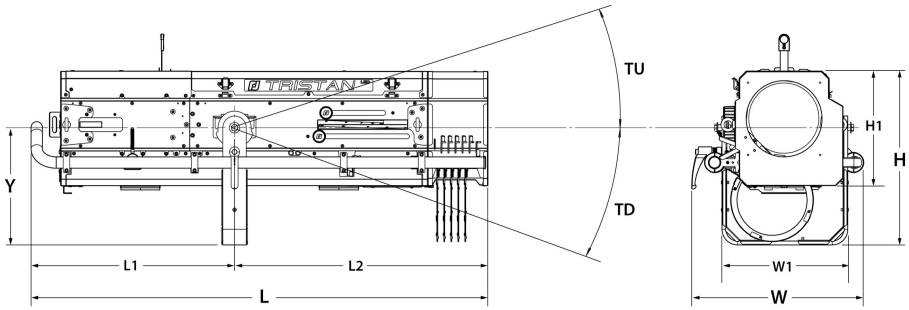
- **Data protocol:** USITT DMX512-A
  RDM / Art-Net / sACN
- **Data IN connector:** 5 pins XLR male + etherCON RJ45
- **Data OUT connector** 5 pins XLR female



- **DMX chart:**

Mode 1 (1 channels)	Mode 2 (6 channels)	Mode 3 (8 channels)	Mode 4 (12 channels)
Dimmer	Dimmer	Dimmer	Dimmer @16
	Dimmer fine	Dimmer fine	Master dimmer @16
	Strobe duration	Master dimmer	Strobe: duration+speed
	Strobe speed	Master dimmer fine	Response time
	Response time	Strobe duration	Control mode
	Control mode	Strobe speed	Iris
		Response time	iris mode
		Control mode	CCT @16

Dimensions and weight



Weight: 39 kg (85.8 lbs)

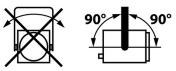
Height	Length	Width	Yoke	Tilt
H= 445 mm (17.5 in) H1= 294 mm (11.6 in)	L= 1174 mm (46.2 in) L1= 523 mm (20.6 in) L2= 651 mm (25.6 in)	W= 435 mm (17.1 in) W1= 323 mm (12.7 in) W2= 250 mm (9.8 in)	Y= 304 mm (12 in)	TU= 50° TD= 50°

Shipping

- **Weight :** 53 kg (116.6 lbs)
- **Volume :** .41 m^3 (14.48 ft^3)

Installation

- **Minimum distance to illuminated surface:** 2.4 m (7.9 ft)
- **Operating position:**



Warranty

- **Fixture: 3 years**

See General Sales Condition on website

Approvals

CE

Construction

- **Housing:** Steel sheet - Aluminium
- **Colour:** Black
- **Cooling:** Variable fans
- **Maximum ambient temperature (Ta):** 40°C (104°F)
- **Maximum case temperature (Tc):** 70°C (158°F)
- **Total heat dissipation:** 3 225 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:** 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	4.33 A	945 W	0.95
110 V	60 Hz	9.21 A	982 W	0.99
100 V	60 Hz	10.25 A	992 W	0.99

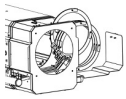
Power Supply Unit

- **PSU:** Internal - Electronic PSU - Flicker free with PFC
- **Control:** Local / DMX
- **Protection:** Mains: 2x 16A 1P1D breaker - UL /

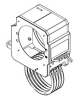
Model

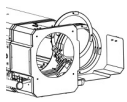
1189 VW	LED 825W - Variable White Followspot - 1189 VW Tristan - 7/14.5°

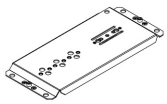
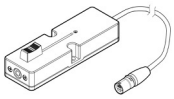
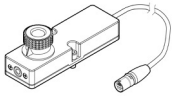
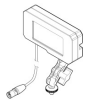
Options

PCP1716A	16A blue 2P+E 6h IEC60309 power connector	
FRO/SMG1PV	Heavy duty adjustable yoke equipped with TILT SpotMe sensor (G1 type)	
FCD/CLPV	Angled yoke for LED Compact followspots	
FRO/CLPV	Heavy duty adjustable yoke for LED Compact followspots (short throw)	
M210/2TM	6 ways "push/pull" colour changer with fan	
M210/2BS	delivered without 6 ways "boomerang" colour changer	
CAG/CL2	Left side controls option for Tristan / Morgane (Iris/Dimmer/Frost/Colour changer)	
FC1189-2	Flight-case for Compact LED range / GT stand / accessories - Dim: 1325x600x925mm - Weight: 57,4 Kg	

Accessories

PF1011	Ø210 mm metal filter holder **6 included**	
SGUP2	Universal "A" size gobo-holder (metal, glass, frosted glass) **1 included**	
FO100R-2	ø100mm 2° frost optical filter with holder **1 included**	
M210/2B	6 ways "boomerang" colour changer - Weight: 3.75 Kg **1 included**	
GT4000	Tripod stand with safety chain - SWL: 130 Kg - max. height: 1030 mm - Weight: 7.91 Kg	
GT4000R	Tripod stand with ball head rotation with security chain - SWL: 130 Kg - max. height: 1030 mm - Weight: 10 Kg	
GT4000RSM	Tripod stand with ball head rotation with security chain and SpotMe PAN sensor - SWL: 130 Kg - max. height: 1030 mm	
GT4000S	Tripod stand without safety chain - SWL: 130 Kg - max. height: 1030 mm - Weight: 8.65 Kg	

JPP	Monopod stand for overhead followspot - Weight: 3.6 Kg	
T1000	TV spigot with followspots swivel head - Weight: 1.82 Kg	
T4000	Followspot mount for Ø50mm pipe (suspension or overhead) - SWL= 100 Kg - Weight: 4.88 Kg	
T4000RSM	Followspot mount with ball head rotation and SpotMe PAN sensor - SWL = 100 Kg - Weight: 8.53 Kg	
CAV700A	Double slot front cassette for 215x215mm accessories - Weight: 0.52 Kg	
FCM100R	Ø97mm 1/2 CTO correction filter (Rosco #3408) with holder	
FO100R-1	ø100mm 1° frost optical filter with holder	
FO100R-5	ø100mm 5° frost optical filter with holder	
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	
FCD/CLPD	Angled yoke for LED Compact followspots	
FRO/CLPD	Heavy duty adjustable yoke for LED Compact followspots	
FRO/SMGPD	Heavy duty adjustable yoke equipped with TILT SpotMe sensor (G type)	
G80/3	Ø80mm horizontal chopper	
M210/2T	6 ways "push/pull" colour changer with fan - Weight: 4.6 Kg	
BK/E1	Extra weight kit for BK1 (0,5 Kg) - Weight: 0.5 Kg	

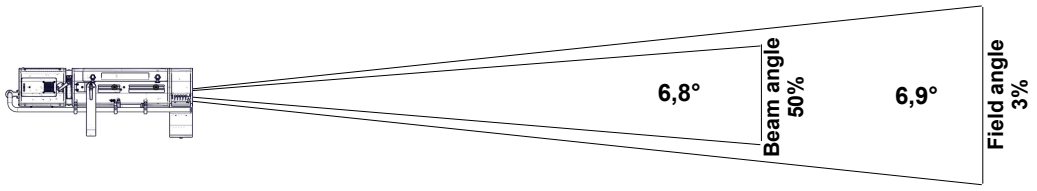
BK1	Followspot balancing kit (including 1 Kg counterweights) - Weight: 2.05 Kg	
BM1	Articulated magic arm with super clamp for P1FE accessories (1/4" connector)	
H/1189	Dust cover	
Kit TELRAD	Telrad followspot sight with raiser and universal mounting kit - Weight: 1.23 Kg	
PSA1	Support plate for 2x P1FE and 1/4" accessories	
SDUP	Followspot cue sheet holder with universal mounting kit	
TCSM	SpotMe calibration tool kit	
Maestro	Maestro server for SpotMe - rackable unit: 1U - half 19" - Weight: 1.2 Kg	
P1FE-L1	One-function remote controller (with linear potentiometer) - Ethernet connector	
P1FE-R1	One-function remote controller (with rotary potentiometer) - Ethernet connector	
R-DISPE1	Remote display - Ethernet connector (1/4" connector included)	
SMS	SpotMe server + 2 sensor cables + flight case - Weight: 6.2 Kg	
FC1189-2/S	Flight-case for Compact LED range / GT stand / accessories - Weight: 57.4 Kg	

Photometrics report

optics: 7°-14,5° / Standard / 5000 K

• Optics @ 7°

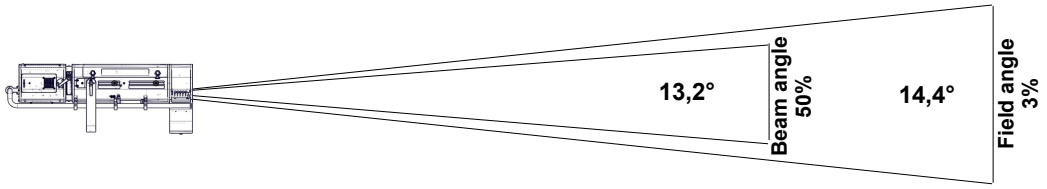
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
12 610 Lm	12 460 Lm	13 Lm/W	1 355 600 Cd	4 860 K	-0.0061



Distance	10 m	20 m	30 m	40 m	50 m	60 m
Field diameter	1,2 m	2,4 m	3,6 m	4,8 m	6 m	7,2 m
Illumination	14 000 lux	3 400 lux	1 550 lux	850 lux	550 lux	380 lux
Distance	35 ft	65 ft	100 ft	130 ft	165 ft	195 ft
Field diameter	4,2 ft	7,8 ft	12,1 ft	15,7 ft	19,9 ft	23,5 ft
Illumination	1 150 fc	330 fc	140 fc	85 fc	50 fc	36 fc

• Optics @ 14,5°

Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
17 710 Lm	16 100 Lm	19 Lm/W	520 700 Cd	4 870 K	-0.0059



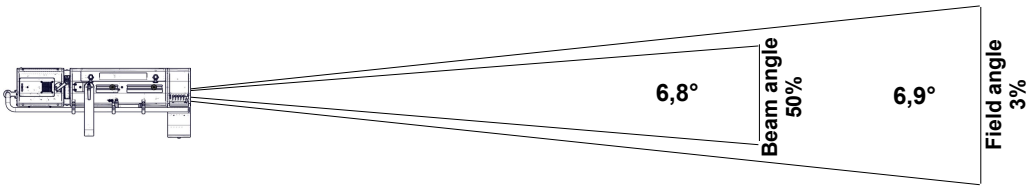
Distance	10 m	20 m	30 m	40 m	50 m	60 m
Field diameter	2,5 m	5,1 m	7,6 m	10,1 m	12,6 m	15,2 m
Illumination	5 300 lux	1 350 lux	580 lux	330 lux	210 lux	150 lux
Distance	35 ft	65 ft	100 ft	130 ft	165 ft	195 ft
Field diameter	8,8 ft	16,4 ft	25,3 ft	32,8 ft	41,7 ft	49,3 ft
Illumination	430 fc	130 fc	55 fc	31 fc	20 fc	14 fc

Photometrics report

optics: 7°-14,5° / Standard / 3200 K

• Optics @ 7°

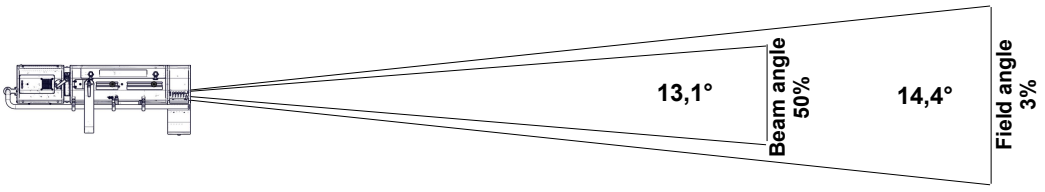
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
7 530 Lm	7 440 Lm	13 Lm/W	812 400 Cd	3 190 K	-0.0016



Distance	10 m	20 m	30 m	40 m	50 m	60 m
Field diameter	1,2 m	2,4 m	3,6 m	4,8 m	6 m	7,2 m
Illumination	8 200 lux	2 050 lux	910 lux	510 lux	330 lux	230 lux
Distance	35 ft	65 ft	100 ft	130 ft	165 ft	195 ft
Field diameter	4,2 ft	7,8 ft	12,1 ft	15,7 ft	19,9 ft	23,5 ft
Illumination	670 fc	200 fc	85 fc	49 fc	30 fc	22 fc

• Optics @ 14,5°

Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
10 200 Lm	9 210 Lm	17 Lm/W	301 800 Cd	3 200 K	-0.0015



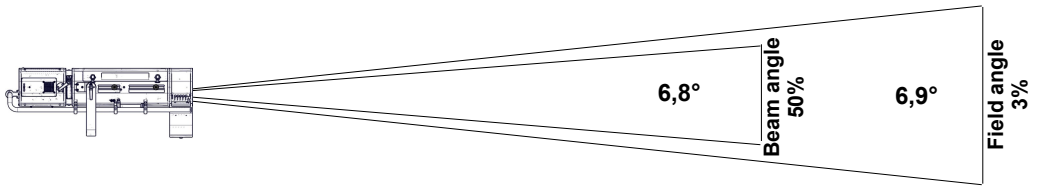
Distance	10 m	20 m	30 m	40 m	50 m	60 m
Field diameter	2,5 m	5,1 m	7,6 m	10,1 m	12,6 m	15,2 m
Illumination	3 050 lux	760 lux	340 lux	190 lux	130 lux	85 lux
Distance	35 ft	65 ft	100 ft	130 ft	165 ft	195 ft
Field diameter	8,8 ft	16,4 ft	25,3 ft	32,8 ft	41,7 ft	49,3 ft
Illumination	250 fc	75 fc	31 fc	18 fc	12 fc	8 fc

Photometrics report

optics: 7°-14,5° / Standard / 6000 K

• Optics @ 7°

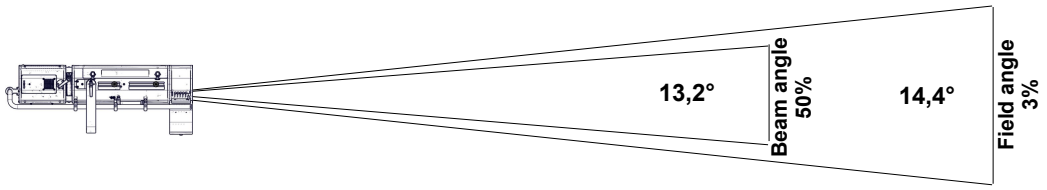
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
10 970 Lm	10 840 Lm	15 Lm/W	1 158 900 Cd	5 850 K	-0.0025



Distance	10 m	20 m	30 m	40 m	50 m	60 m
Field diameter	1,2 m	2,4 m	3,6 m	4,8 m	6 m	7,2 m
Illumination	12 000 lux	2 900 lux	1 300 lux	730 lux	470 lux	330 lux
Distance	35 ft	65 ft	100 ft	130 ft	165 ft	195 ft
Field diameter	4,2 ft	7,8 ft	12,1 ft	15,7 ft	19,9 ft	23,5 ft
Illumination	950 fc	280 fc	120 fc	70 fc	43 fc	31 fc

• Optics @ 14,5°

Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
15 220 Lm	13 790 Lm	21 Lm/W	450 200 Cd	5 820 K	-0.0024



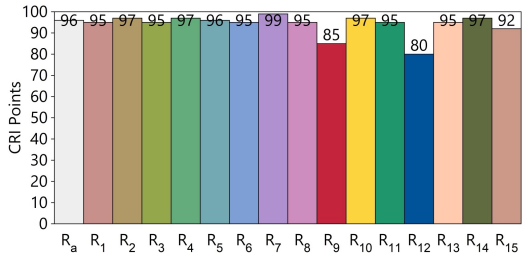
Distance	10 m	20 m	30 m	40 m	50 m	60 m
Field diameter	2,5 m	5,1 m	7,6 m	10,1 m	12,6 m	15,2 m
Illumination	4 550 lux	1 150 lux	510 lux	290 lux	190 lux	130 lux
Distance	35 ft	65 ft	100 ft	130 ft	165 ft	195 ft
Field diameter	8,8 ft	16,4 ft	25,3 ft	32,8 ft	41,7 ft	49,3 ft
Illumination	370 fc	110 fc	46 fc	27 fc	17 fc	12 fc

Light quality report

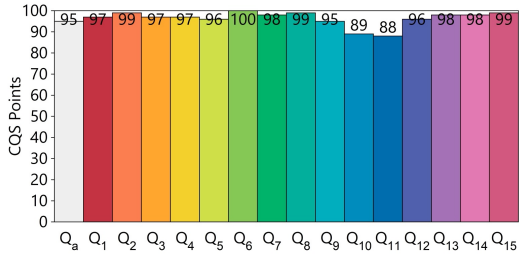
Colour mode: 5000 K

CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [4866]
4 870K	-0.0060	96	85	95	94	104	98	78

CRI - CIE Colour Rendering Index

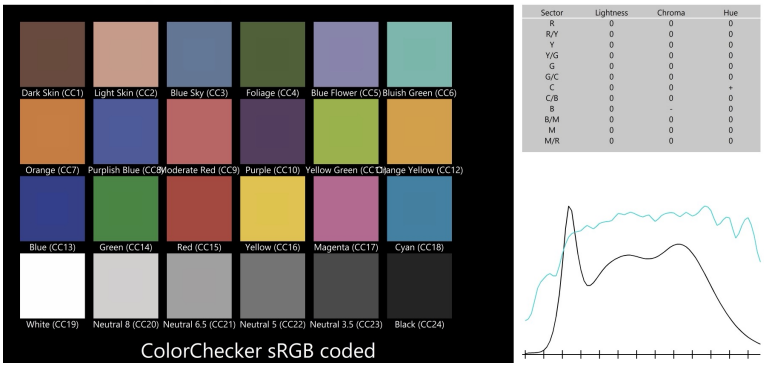


CQS - NIST Colour Quality Scale

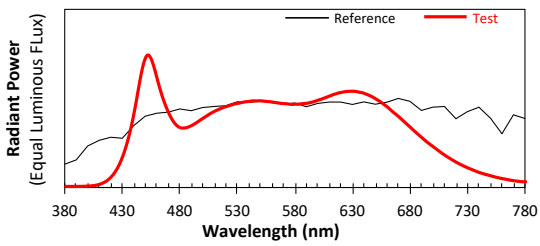


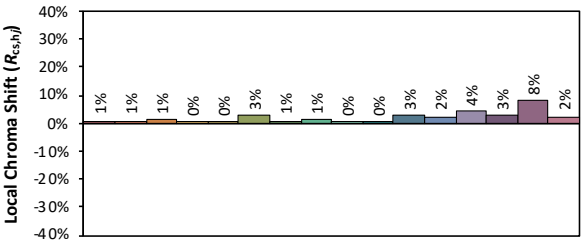
TLCI - Television Lighting Consistency Index

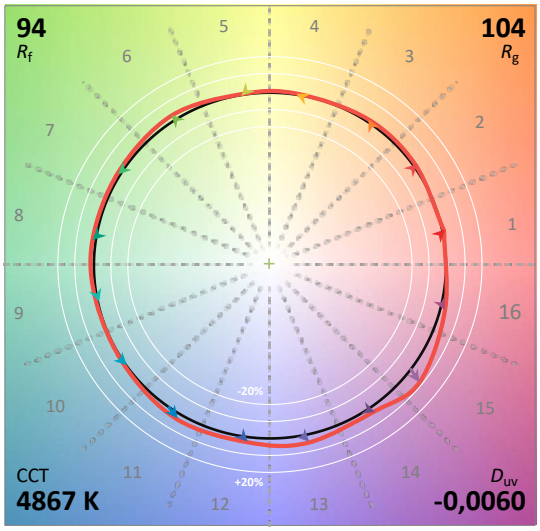
Test : CCT = M4867 (-1.9)
TLCI-2012 : 98 (M4867)

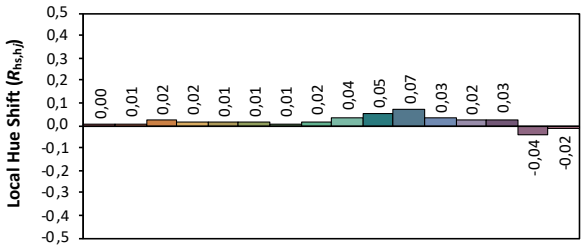


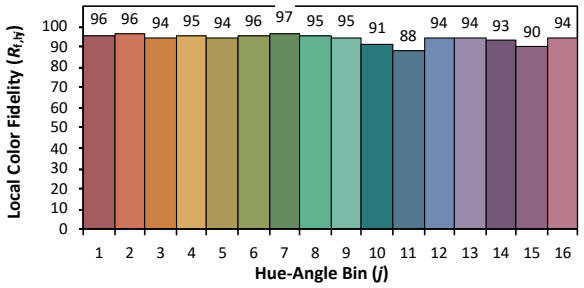
ANSI/IES TM-30-18 Colour Rendition Report

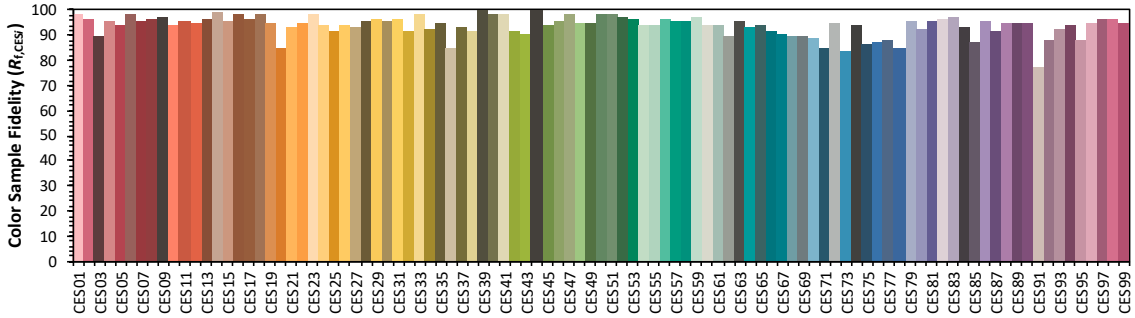












Colours are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00

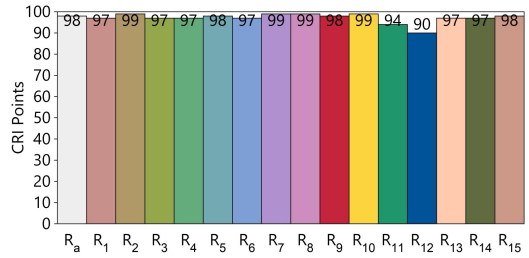
DSEN434_1189_VW

Light quality report

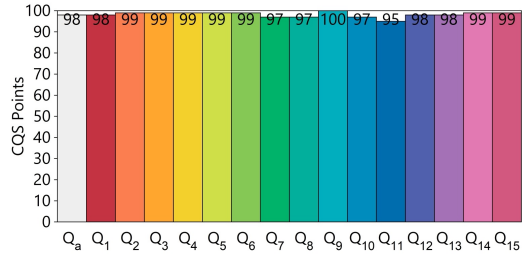
Colour mode: 3200 K

CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [3198]
3 200K	-0.0015	98	98	98	96	102	99	86

CRI - CIE Colour Rendering Index



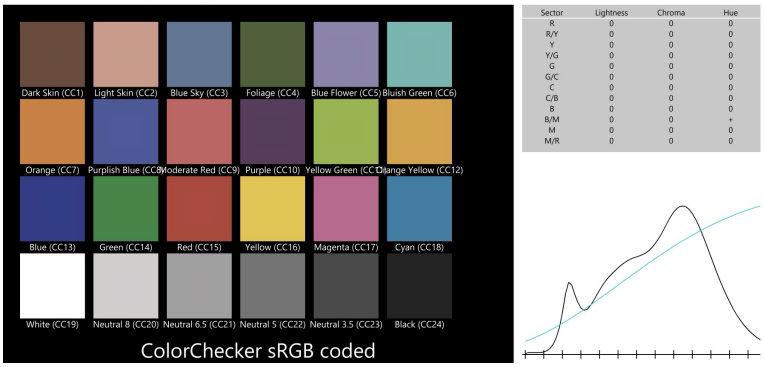
CQS - NIST Colour Quality Scale



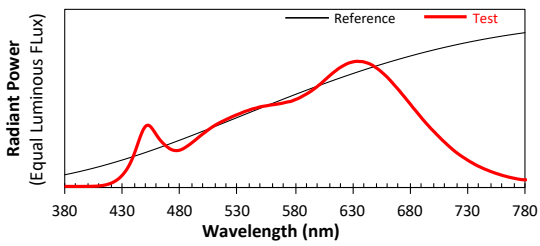
TLCI - Television Lighting Consistency Index

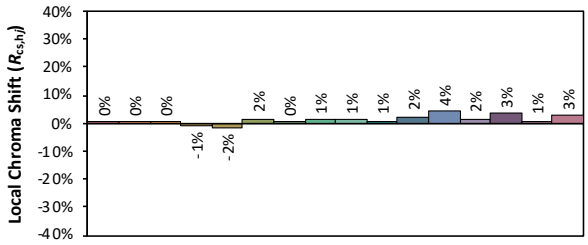
Test : CCT = P3199 (-0.3)

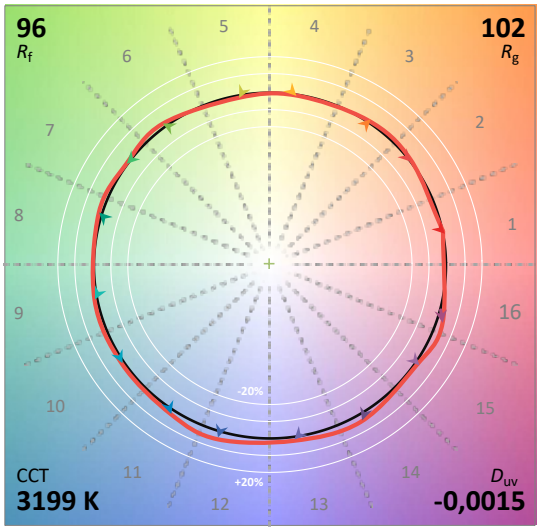
TLCI-2012 : 99 (P3199)

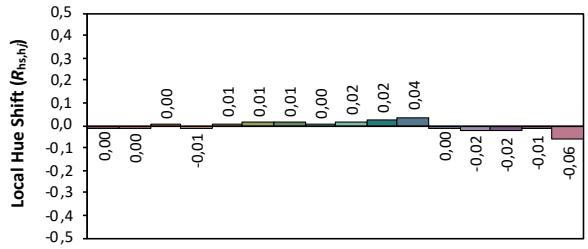


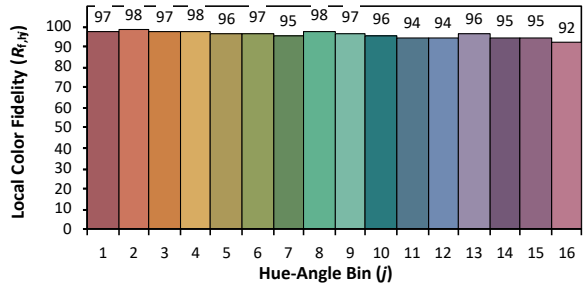
ANSI/IES TM-30-18 Colour Rendition Report

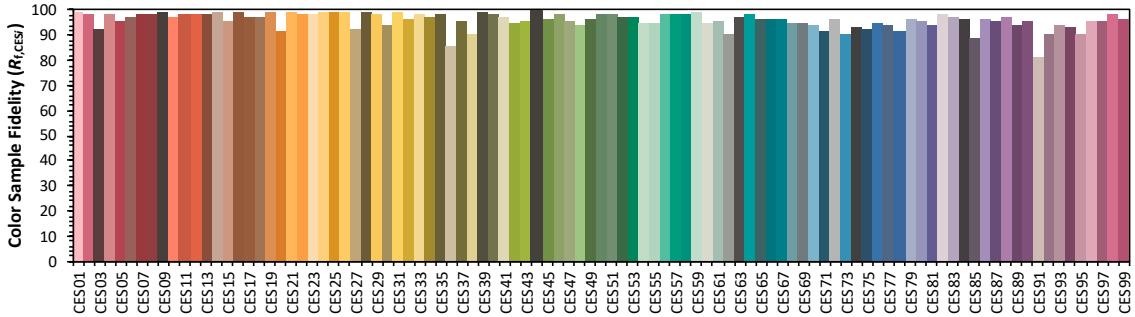












Colours are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00

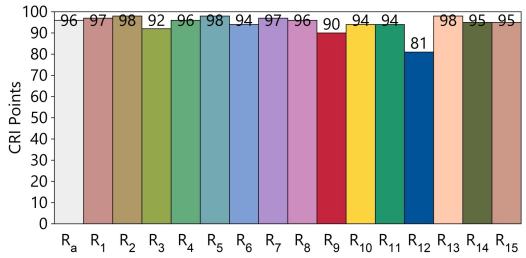
DSEN434_1189_VW

Light quality report

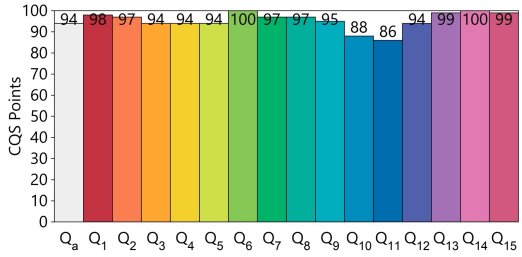
Colour mode: 6000 K

CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [5828]
5 830K	-0.0025	96	90	94	93	103	98	75

CRI - CIE Colour Rendering Index

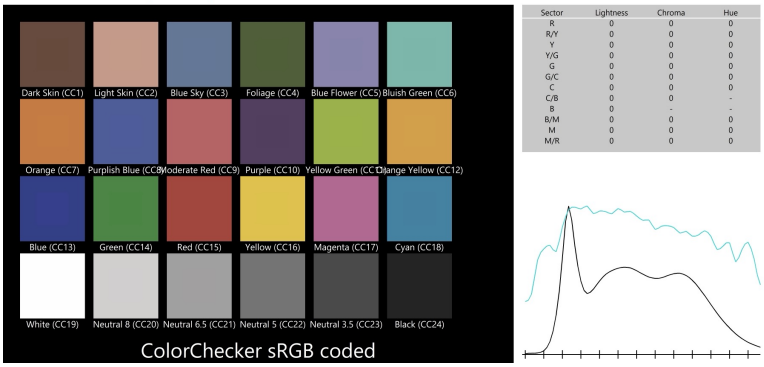


CQS - NIST Colour Quality Scale

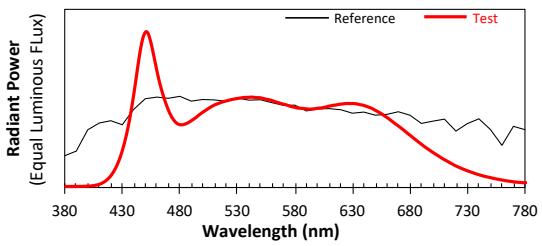


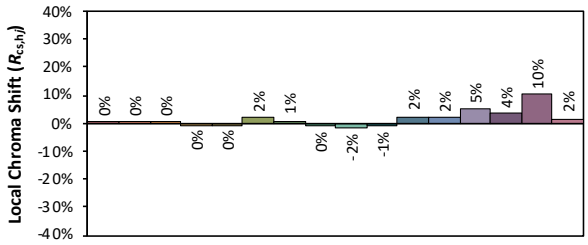
TLCI - Television Lighting Consistency Index

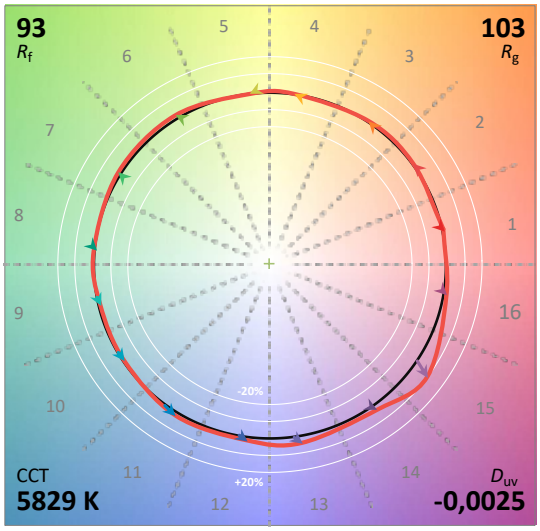
Test : CCT = D5828 (-1.1)
TLCI-2012 : 98 (D5828)

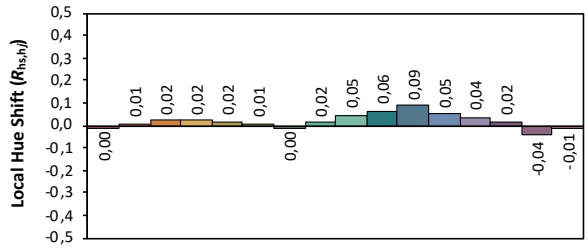


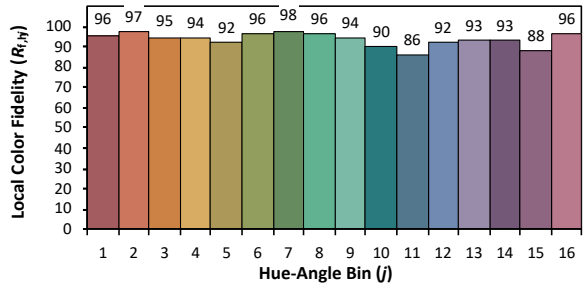
ANSI/IES TM-30-18 Colour Rendition Report

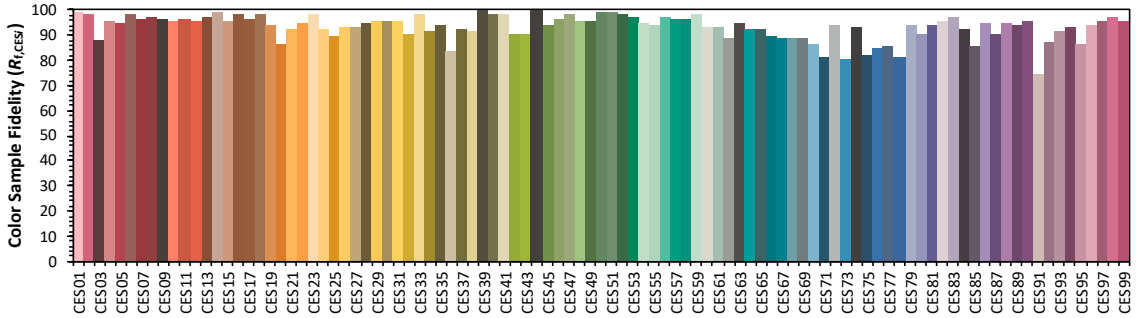












Colours are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00

DSEN434_1189_VW