MORGANE - 1489 VW

LED COMPACT - LED 825W - VARIABLE WHITE

Followspot



- **Type:** Followspot
- **Source:** LED 825W - Variable White
- **Optics:** 13° to 24° zoom
- **Colour temperature:** 3000K --> 6300K

Compact, powerful and versatile

With its 825W LED source, Morgane provides high output with a 13°-24° zoom range to rival the traditional Flo 1800W MSR followspots. 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. With its compact dimension, silent operation, smooth electronic dimming and the benefits of no lamp change and powerful output, Morgane is the ideal truss spot for larger venues and full size theaters.

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, 'push/pull' colour changer system for simultaneous use of multiple filters
• **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

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.
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Telephone : +33 (0)3 44 26 51 89 - info@robertjuliat.fr - www.robertjuliat.com

ROBERT JULIAT

Picture:1489

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:** 13° to 24° (Field angle)
- **Focal length:** - mm

Gel filter

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

Gobo

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

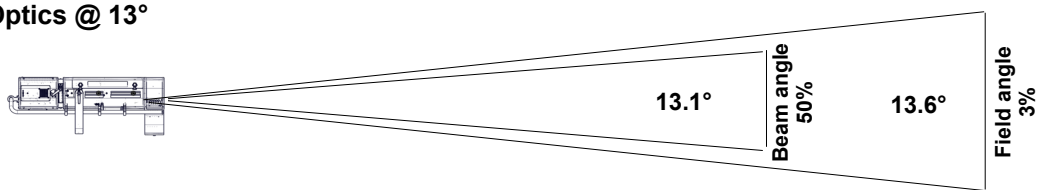


100 mm
***Maximum image size**

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

optics: 13°-24° / Standard / 5000 K

• Optics @ 13°



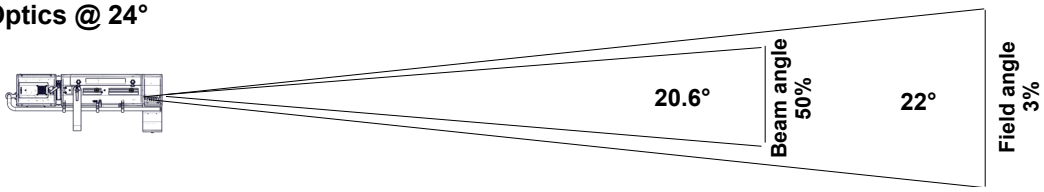
Beam intensity
650 900 cd

Field lumens
19 960 lm

Efficacy
24 lm/W

Distance	5 m	10 m	15 m	20 m	25 m	30 m
Diameter	1.2 m	2.4 m	3.6 m	4.8 m	6 m	7.2 m
Illumination	26 500 lux	6 600 lux	2 900 lux	1 650 lux	1 050 lux	730 lux
Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
Diameter	3.6 ft	8.3 ft	11.9 ft	15.5 ft	19.1 ft	23.8 ft
Illumination	2 900 fc	540 fc	270 fc	160 fc	110 fc	70 fc

• Optics @ 24°



Beam intensity
263 000 cd

Field lumens
20 680 lm

Efficacy
25 lm/W

Distance	5 m	10 m	15 m	20 m	25 m	30 m
Diameter	1.9 m	3.9 m	5.8 m	7.8 m	9.7 m	11.7 m
Illumination	11 000 lux	2 650 lux	1 200 lux	660 lux	430 lux	300 lux
Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
Diameter	5.8 ft	13.6 ft	19.4 ft	25.3 ft	31.1 ft	38.9 ft
Illumination	1 200 fc	220 fc	110 fc	65 fc	42 fc	27 fc

Remote control

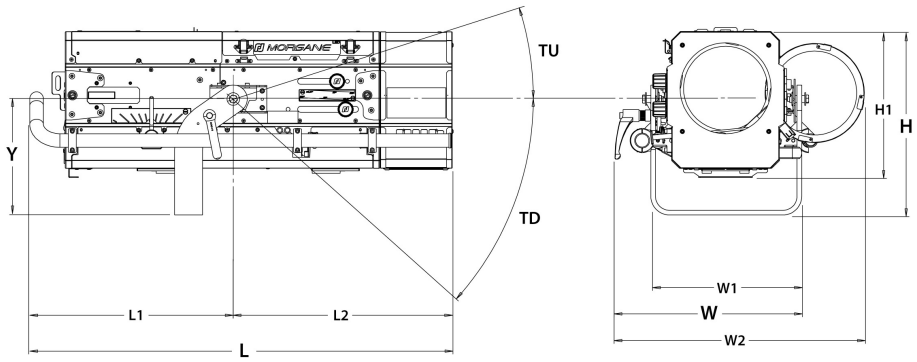
- **Data protocol:** USITT DMX512-A
  RDM / Art-Net / sACN
- **Data IN connector:** 5 pins XLR male + etherCON RJ45
- **Data OUT connector** 5 pins XLR female



- **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: 36 kg (79.2 lbs)

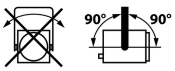
Height	Length	Width	Yoke	Tilt
H= 393 mm (15.5 in) H1= 294 mm (11.6 in)	L= 905 mm (35.6 in) L1= 436 mm (17.2 in) L2= 469 mm (18.5 in)	W= 434 mm (17.1 in) W1= 323 mm (12.7 in) W2= 534 mm (21 in)	Y= 249 mm (9.8 in)	TU= 9° TD= 65°

Shipping

- **Weight :** 50 kg (110 lbs)
- **Volume :** .41 m^3 (14.48 ft^3)

Installation

- **Minimum distance to illuminated surface:** 1.7 m (5.6 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:** 3 205 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	4.3 A	939 W	0.95
110 V	60 Hz	9.13 A	976 W	0.99
100 V	60 Hz	10.15 A	982 W	0.99

Power Supply Unit

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

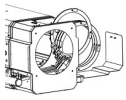
Model

1489 VW	LED 825W - Variable White Followspot - 1489 VW Morgane - 13/24°

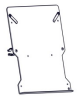
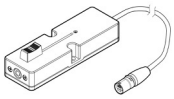
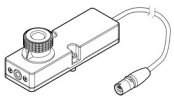
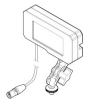
Options

PCP1716A	16A blue 2P+E 6h IEC60309 power connector	
FRO/SMG2PV	Heavy duty adjustable yoke equipped with TILT SpotMe sensor (G2 type)	
FD/CLPV	Straight yoke for LED Compact followspots	
FRO/CL2PV	Heavy duty adjustable yoke for LED Compact followspots (long throw)	
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**	
M210/2T	6 ways "push/pull" colour changer with fan - Weight: 4.6 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	
FD/CLPD	Straight 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	
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)	
Kit TELRAD	Telrad followspot sight with raiser and universal mounting kit - Weight: 1.23 Kg	

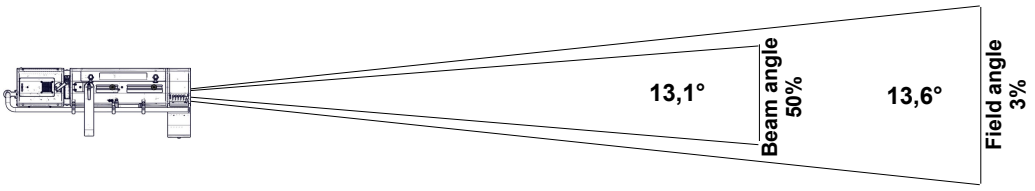
PSA2	Support plate for 2x P1FE and 1/4" accessories	
SDUP	Followspot cue sheet holder with universal mounting kit	
TCSM	SpotMe calibration tool kit	
Maestro	Maestro server for SpotMe - rackable unit: 1U - half 19" - Weight: 1.2 Kg	
P1FE-L1	One-function remote controller (with linear potentiometer) - 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: 13°-24° / Standard / 5000 K

• Optics @ 13°

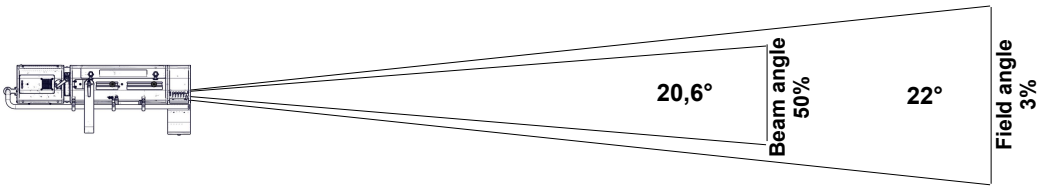
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
19 960 Lm	19 420 Lm	24 Lm/W	650 900 Cd	5 000 K	-0.005



Distance	5 m	10 m	15 m	20 m	25 m	30 m
Field diameter	1,2 m	2,4 m	3,6 m	4,8 m	6 m	7,2 m
Illumination	26 500 lux	6 600 lux	2 900 lux	1 650 lux	1 050 lux	730 lux
Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
Field diameter	3,6 ft	8,3 ft	11,9 ft	15,5 ft	19,1 ft	23,8 ft
Illumination	2 900 fc	540 fc	270 fc	160 fc	110 fc	70 fc

• Optics @ 24°

Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
20 680 Lm	19 190 Lm	25 Lm/W	263 000 Cd	4 870 K	-0.0048



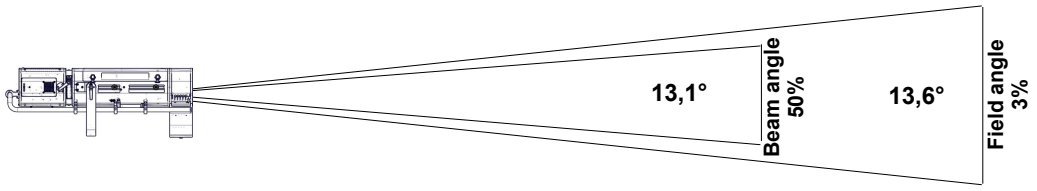
Distance	5 m	10 m	15 m	20 m	25 m	30 m
Field diameter	1,9 m	3,9 m	5,8 m	7,8 m	9,7 m	11,7 m
Illumination	11 000 lux	2 650 lux	1 200 lux	660 lux	430 lux	300 lux
Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
Field diameter	5,8 ft	13,6 ft	19,4 ft	25,3 ft	31,1 ft	38,9 ft
Illumination	1 200 fc	220 fc	110 fc	65 fc	42 fc	27 fc

Photometrics report

optics: 13°-24° / Standard / 3200 K

• Optics @ 13°

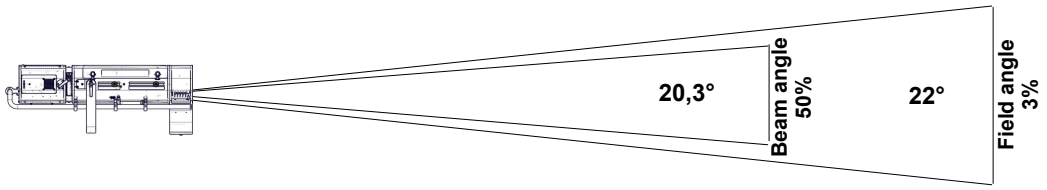
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
11 500 Lm	11 070 Lm	22 Lm/W	378 500 Cd	3 240 K	-0.0005



Distance	5 m	10 m	15 m	20 m	25 m	30 m
Field diameter	1,2 m	2,4 m	3,6 m	4,8 m	6 m	7,2 m
Illumination	15 500 lux	3 800 lux	1 700 lux	950 lux	610 lux	430 lux
Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
Field diameter	3,6 ft	8,3 ft	11,9 ft	15,5 ft	19,1 ft	23,8 ft
Illumination	1 700 fc	310 fc	160 fc	90 fc	60 fc	38 fc

• Optics @ 24°

Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
11 790 Lm	10 750 Lm	23 Lm/W	151 400 Cd	3 190 K	-0.0005



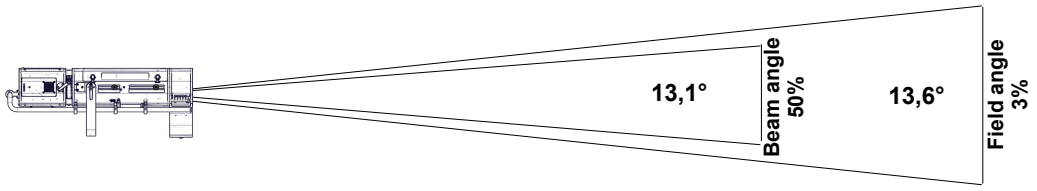
Distance	5 m	10 m	15 m	20 m	25 m	30 m
Field diameter	1,9 m	3,9 m	5,8 m	7,8 m	9,7 m	11,7 m
Illumination	6 100 lux	1 550 lux	680 lux	380 lux	250 lux	170 lux
Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
Field diameter	5,8 ft	13,6 ft	19,4 ft	25,3 ft	31,1 ft	38,9 ft
Illumination	680 fc	130 fc	65 fc	36 fc	24 fc	16 fc

Photometrics report

optics: 13°-24° / Standard / 6000 K

• Optics @ 13°

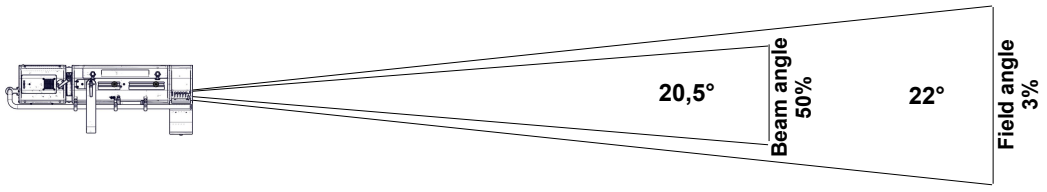
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
17 230 Lm	16 760 Lm	30 Lm/W	562 100 Cd	6 060 K	-0.0019



Distance	5 m	10 m	15 m	20 m	25 m	30 m
Field diameter	1,2 m	2,4 m	3,6 m	4,8 m	6 m	7,2 m
Illumination	22 500 lux	5 700 lux	2 500 lux	1 450 lux	900 lux	630 lux
Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
Field diameter	3,6 ft	8,3 ft	11,9 ft	15,5 ft	19,1 ft	23,8 ft
Illumination	2 500 fc	460 fc	230 fc	140 fc	90 fc	60 fc

• Optics @ 24°

Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
17 520 Lm	16 200 Lm	31 Lm/W	222 900 Cd	5 860 K	-0.0017



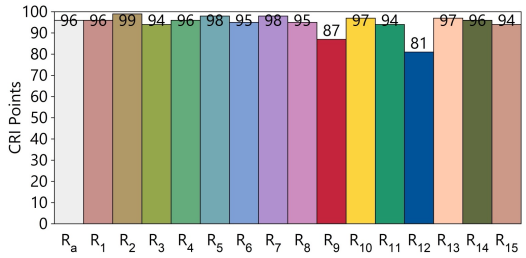
Distance	5 m	10 m	15 m	20 m	25 m	30 m
Field diameter	1,9 m	3,9 m	5,8 m	7,8 m	9,7 m	11,7 m
Illumination	9 000 lux	2 250 lux	1 000 lux	560 lux	360 lux	250 lux
Distance	15 ft	35 ft	50 ft	65 ft	80 ft	100 ft
Field diameter	5,8 ft	13,6 ft	19,4 ft	25,3 ft	31,1 ft	38,9 ft
Illumination	1 000 fc	190 fc	90 fc	55 fc	35 fc	23 fc

Light quality report

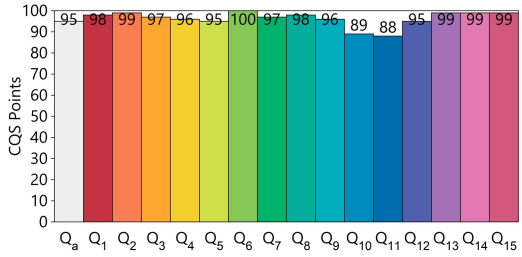
Colour mode: 5000 K

CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [4931]
4 930K	-0.0049	96	87	95	94	104	98	78

CRI - CIE Colour Rendering Index

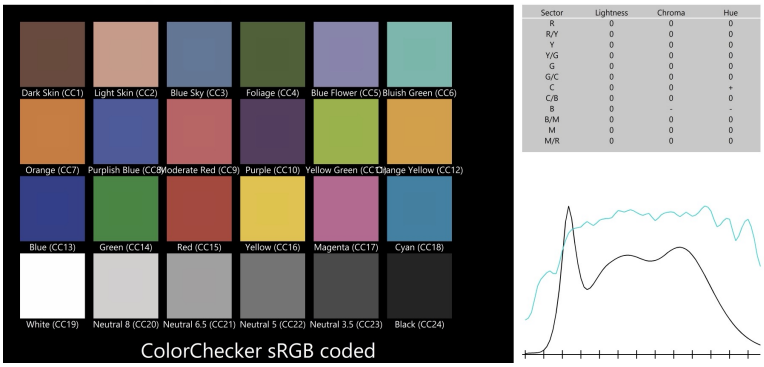


CQS - NIST Colour Quality Scale

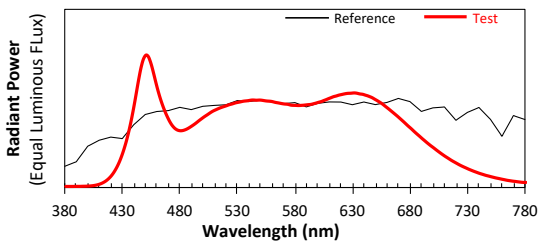


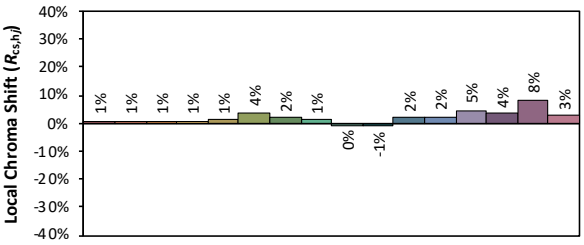
TLCI - Television Lighting Consistency Index

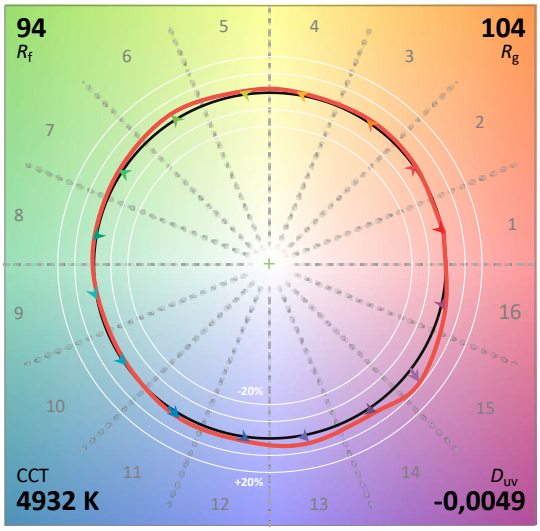
Test : CCT = M4931 (-1.7)
TLCI-2012 : 98 (M4931)

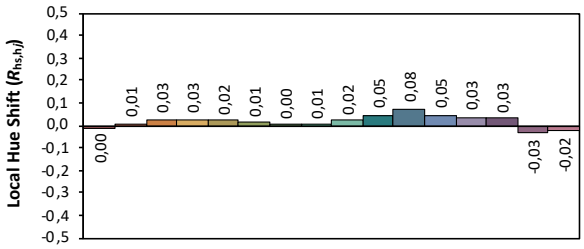


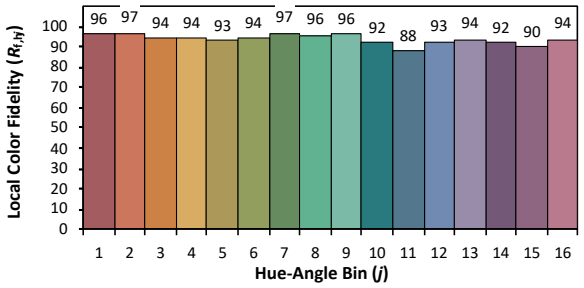
ANSI/IES TM-30-18 Colour Rendition Report

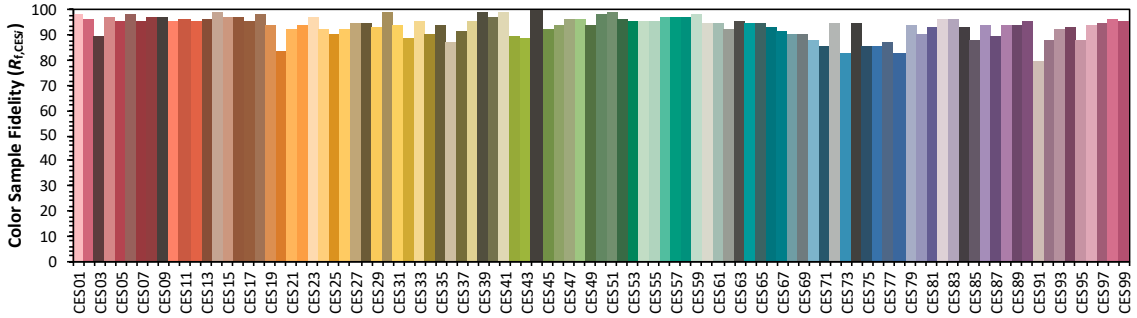












Colours are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00

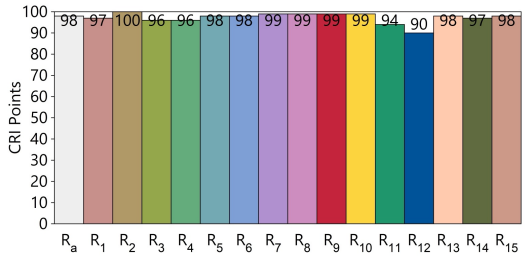
DSEN438_1489_VW

Light quality report

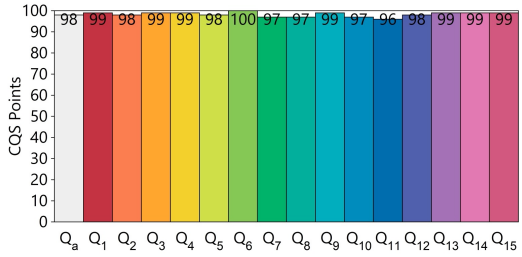
Colour mode: 3200 K

CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [3216]
3 220K	-0.0005	98	99	98	96	102	99	86

CRI - CIE Colour Rendering Index



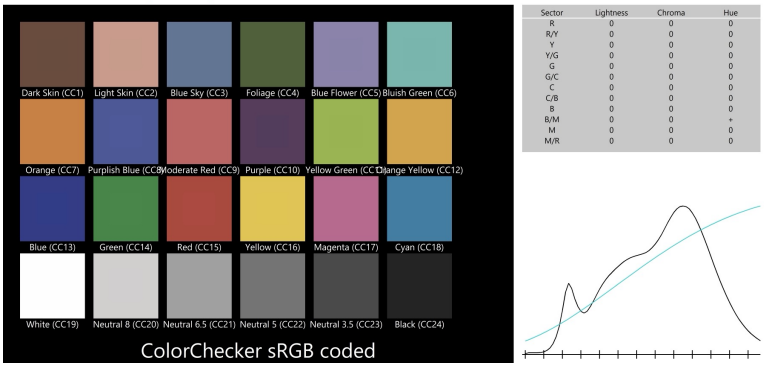
CQS - NIST Colour Quality Scale



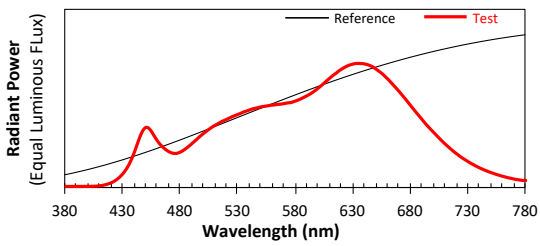
TLCI - Television Lighting Consistency Index

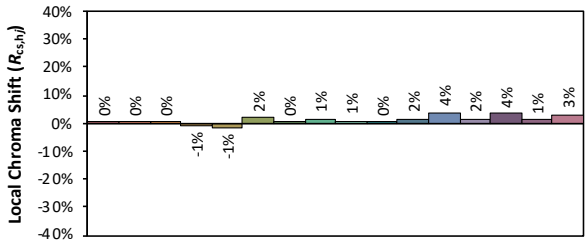
Test : CCT = P3216 (-0.1)

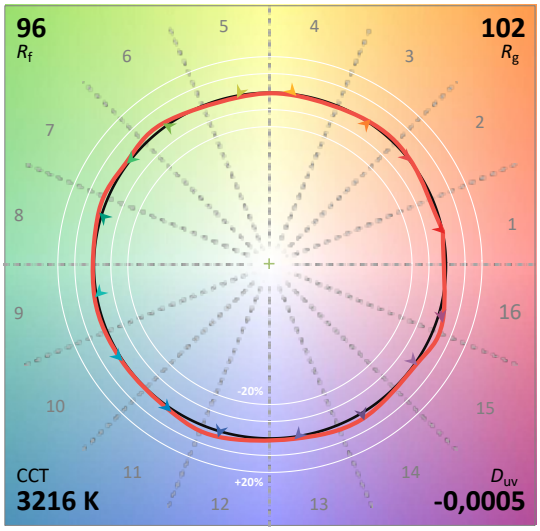
TLCI-2012 : 99 (P3216)

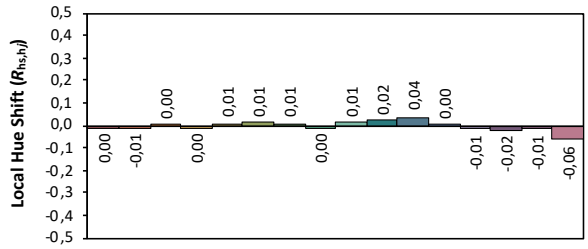


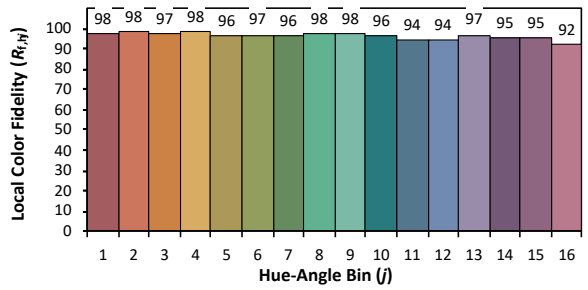
ANSI/IES TM-30-18 Colour Rendition Report

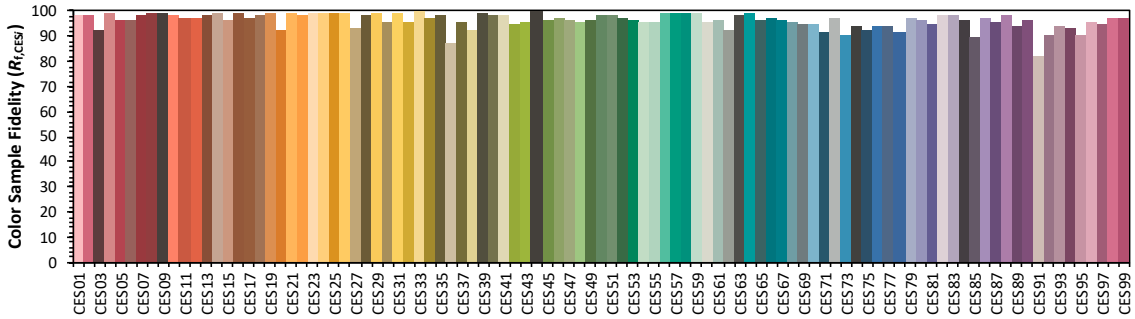












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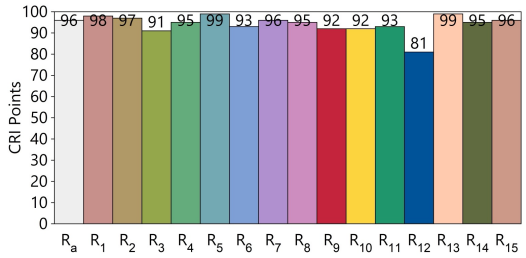
DSEN438_1489_VW

Light quality report

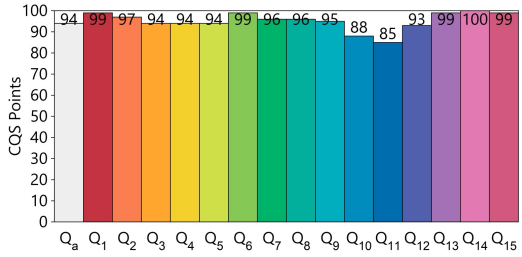
Colour mode: 6000 K

CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [5950]
5 950K	-0.0018	96	92	94	93	103	98	75

CRI - CIE Colour Rendering Index

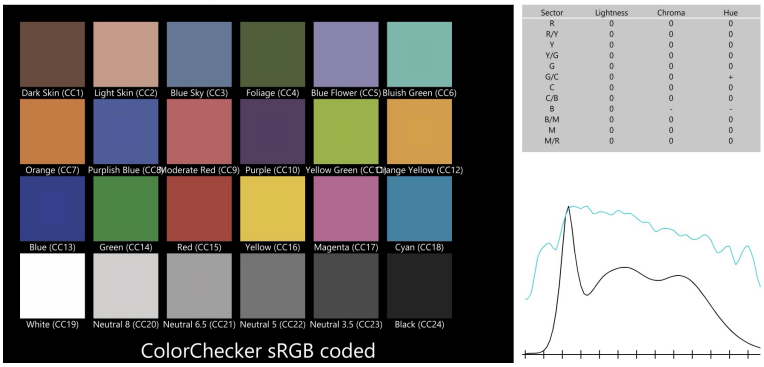


CQS - NIST Colour Quality Scale

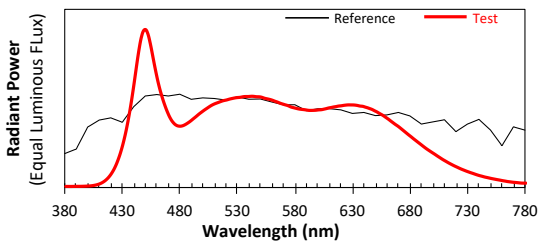


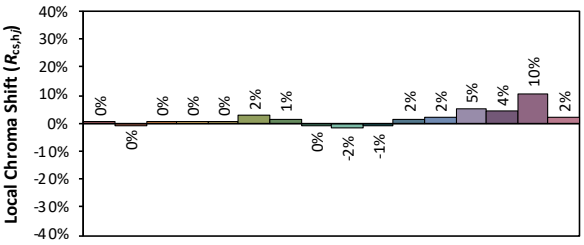
TLCI - Television Lighting Consistency Index

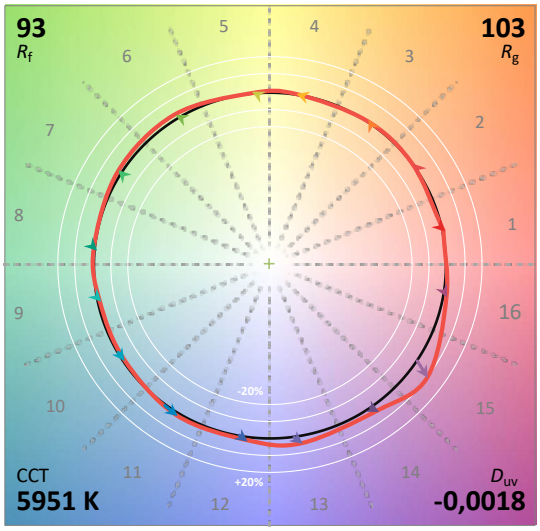
Test : CCT = D5950 (-0.9)
TLCI-2012 : 98 (D5950)

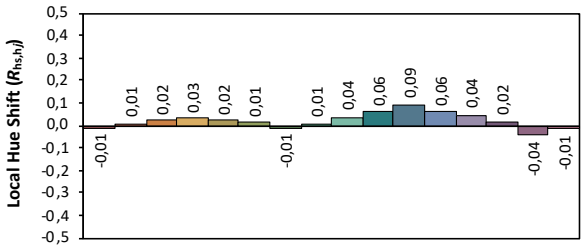


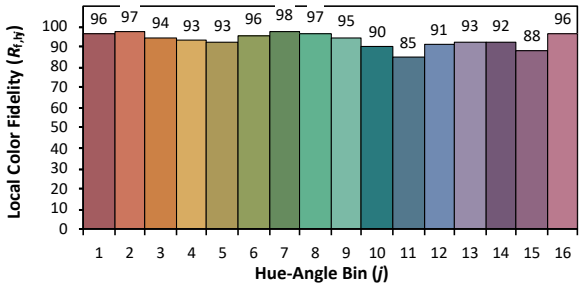
ANSI/IES TM-30-18 Colour Rendition Report

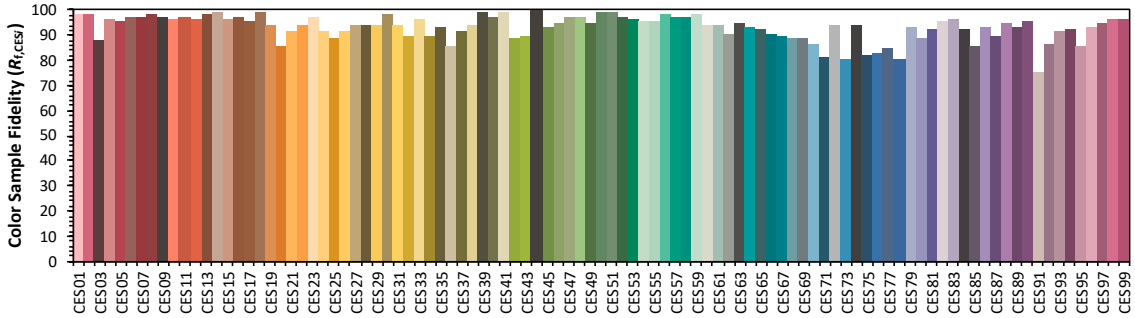












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