ARTHUR - 1014TC

LLT (LED LONG THROW) - LED 800 W

Followspot



- **Type:** Followspot
- **Source:** LED 800 W
- **Optics:** 5.5° to 15° zoom
- **Colour temperature:** Cool White
- **Version:** Top control - PTO

Arthur takes the throne !

Robert Juliat has developed a new long-throw 800W LED followspot capable of matching the lumen output of an HMI 2500W Aramis followspot at similar angles. Thanks to its powerful LED engine, very narrow beam angle and long-throw capability, Arthur ensures invincible performances with a minimum output of 2000 lux at a distance of 40m (200fc at 130 ft), while offering premium light quality with a high CRI (>90) - an essential feature for a followspot whose main role is to shine a light on performers and showcase them in sublime fashion. With the choice of several ventilation modes, Arthur's sound level is much quieter than any of its discharge rivals; it can be operated as easily in opera houses as on concerts.

Features

• **Fully closing iris:** control from the top of the unit
• **Universal adjustable gobo holder:** "A" size glass and metal gobos
• **Local control:** light intensity adjustment through built-in potentiometer
• **Dimmer control lever on top:** one-handed dim and iris - PTO (Push To Open) model
• **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
• **Optional Colour correction (1/2 CTO):** on flip lever for fast change
• **USB connector:** for connection of additional accessories
• **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
• **Control:** local and DMX
• **Dimming parameters:** choice of square or linear dimming curves
• **DMX:** 8 or 16 bit dimming, response time and strobe function
• **Easy focus reference:** graduated scale on side of the unit; fast and easy refocusing
• **Adjustable yoke:** for optimum overhead positioning
• **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
• **High output:** up to 29 000 lumens. Capable of matching the lumen output of HMI 2500W Aramis followspot at similar angles
• **Native high CRI LED source:** CRI > 90 - perfect for performer illumination - no need for correction filter
• **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
• **Integrated network switch :** two etherCON RJ45 connectors for Art-Net / sACN 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
• **Independent modules for the PSU, drivers and CPU:** easy maintenance with plug & play system

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

Picture:1014TC

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

- **Lamp type:** LED
- **Power:** 840 W

LED specifications	Power *	Lumen output*	Colour temperature*	Life*	CRI* (min)
LED 800W	840 W	42 000 lm	6000K	20 000 h	91

(*) manufacturer's data - Life reference: L70B50

Optics

Characteristics

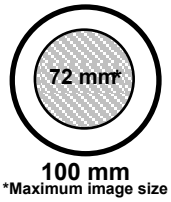
- **Type:** Zoom
- **Range:** 5.5° to 15° (Field angle)
- **Focal length:** 273 - 749 mm

Gel filter

- **Shape:** Circle
- **Standard size:** 270 mm (10.6 in)

Gobo

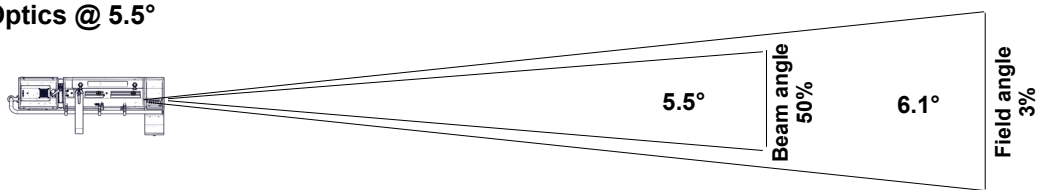
- **Size:** A
- **Material:** Metal
  Glass



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

optics: 5,5°-15° / Standard

• Optics @ 5.5°



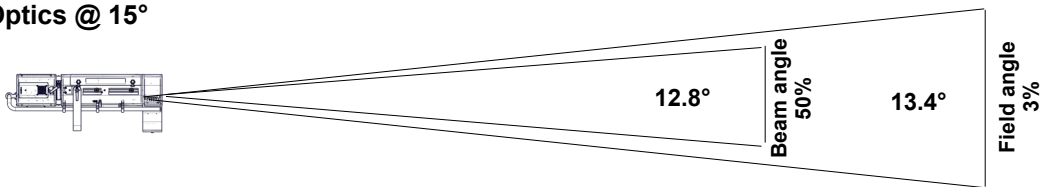
Beam intensity
3 272 700 cd

Field lumens
19 180 lm

Efficacy
20 lm/W

Distance	30 m	40 m	50 m	60 m	70 m	80 m
Diameter	3.2 m	4.3 m	5.3 m	6.4 m	7.5 m	8.5 m
Illumination	3 650 lux	2 050 lux	1 350 lux	910 lux	670 lux	520 lux
Distance	100 ft	130 ft	165 ft	195 ft	230 ft	260 ft
Diameter	10.7 ft	13.9 ft	17.6 ft	20.8 ft	24.5 ft	27.7 ft
Illumination	330 fc	200 fc	130 fc	90 fc	65 fc	49 fc

• Optics @ 15°



Beam intensity
832 800 cd

Field lumens
29 290 lm

Efficacy
31 lm/W

Distance	30 m	40 m	50 m	60 m	70 m	80 m
Diameter	7 m	9.4 m	11.7 m	14.1 m	16.4 m	18.8 m
Illumination	930 lux	530 lux	340 lux	240 lux	170 lux	140 lux
Distance	100 ft	130 ft	165 ft	195 ft	230 ft	260 ft
Diameter	23.5 ft	30.5 ft	38.8 ft	45.8 ft	54 ft	61.1 ft
Illumination	85 fc	50 fc	31 fc	22 fc	16 fc	13 fc

Remote control

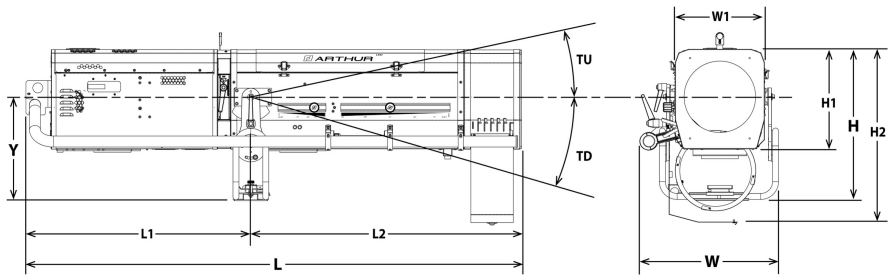
- **Data protocol:** USITT DMX512-A
  RDM / Art-Net / sACN
- **Data IN connector:** 5 pins XLR male + 2x etherCON RJ45
- **Data OUT connector** 5 pins XLR female



- **DMX chart:**

Mode 1 (1 channels)	Mode 2 (2 channels)	Mode 3 (5 channels)	Mode 4 (6 channels)	Mode 5 (6 channels)	Mode 6 (8 channels)
Dimmer	Dimmer	Dimmer	Dimmer	Dimmer	Dimmer
	Dimmer fine	Strobe duration	Dimmer fine	Master dimmer	Dimmer fine
		Strobe speed	Strobe duration	Strobe duration	Master dimmer
		Response time	Strobe speed	Strobe speed	Master dimmer fine
		Control mode	Response time	Response time	Strobe duration
			Control mode	Control mode	Strobe speed
					Response time
					Control mode

Dimensions and weight



Weight: 68.8 kg (151.4 lbs)

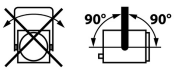
Height	Length	Width	Yoke	Tilt
H= 508 mm (20 in) H1= 345 mm (13.6 in) H2= 590 mm (23.2 in)	L= 1665 mm (65.6 in) L1= 755 mm (29.7 in) L2= 910 mm (35.8 in)	W= 461 mm (18.1 in) W1= 300 mm (11.8 in)	Y= 340 mm (13.4 in)	TU= 30° TD= 61°

Shipping

- **Weight :** 113 kg (248.6 lbs)
- **Volume :** 1.1 m^3 (38.84 ft^3)

Installation

- **Minimum distance to illuminated surface:** 1.3 m (4.3 ft)
- **Operating position:**



Warranty

- **Fixture: 3 years**

See General Sales Condition on website

Approvals

CE

Acoustics

- **Noise level: < 34,9 dB(A)**

Construction

- **Housing:** Steel sheet - Aluminium
- **Colour:** Black
- **Cooling:** Variable fans
- **Maximum ambient temperature (Ta):** 40°C (104°F)
- **Maximum case temperature (Tc):** 51°C (123.8°F)
- **Total heat dissipation:** 3 277 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	960 W	0.97
120 V	60 Hz	8.7 A	1030 W	0.98
100 V	60 Hz	10.7 A	1080 W	0.98

Power Supply Unit

- **PSU:** Internal - Electronic PSU - Flicker free with PFC
- **Control:** Local / DMX
- **Protection:** Mains: 20A 2P 2D fast switch breaker - UL /
- **Power thru:** compatible powerCON® TRUE1 - Maximum of 3 units (230 V) / 1 units (120 V)

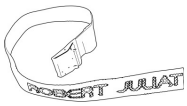
Model

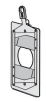
1014TC	LED 800 W Followspot - 1014TC Arthur - Cool White - 5.5/15° - Top Control PTO

Options

PCP1716A	16A blue 2P+E 6h IEC60309 power connector	
FRO/SMCPV	Heavy duty adjustable yoke equipped with TILT SpotMe sensor (C type)	
M270/2TM	6 ways "push/pull" colour changer	
FC1014	Flight-case for LLT range / GT stand / accessories - Dim: 1838x599x873mm - Weight: 68 Kg	

Accessories

PF1013	Ø270 mm metal filter holder - Weight: 0.2 Kg **6 included**	
SGUP2	Universal "A" size gobo-holder (metal, glass, frosted glass) **1 included**	
FO120R-2	ø120mm 2° frost optical filter with holder **1 included**	
GR120/2	Slot reducer for SGUP gobo holder (if PG80/2 option) **1 included**	
M270/2B	6 ways "boomerang" colour changer - Weight: 5.9 Kg **1 included**	
SAC1	RJ Cable strap (25x500mm) **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	
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	
PFR1	ø10,6 in --> ø9 in filter adaptor	
FCM120R/2	Ø120mm 1/2 CTO correction filter (Rosco #3408) 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	
FO120R-1	ø120mm 1° frost optical filter with holder	
FO120R-5	ø120mm 5° frost optical filter with holder	
VD120	120x120mm frosted glass	
FRO/SMCPD	Heavy duty adjustable yoke equipped with TILT SpotMe sensor (C type)	
G80/2	Ø80mm horizontal chopper	
M270/2T	6 ways "push/pull" colour changer - Weight: 6.9 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	
H/1014	Dust cover	
Kit TELRAD	Telrad followspot sight with raiser and universal mounting kit - Weight: 1.23 Kg	
SDUP	Followspot cue sheet holder with universal mounting kit	
TCSM	SpotMe calibration tool kit	

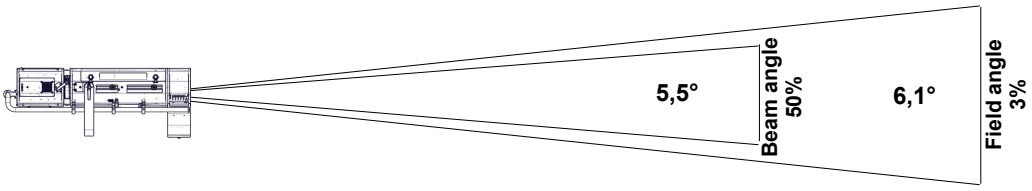
DMXcat	Bluetooth DMX/RDM Multifunction test tool - City Theatrical DMXcat®	
Maestro	Maestro server for SpotMe - rackable unit: 1U - half 19'' - Weight: 1.2 Kg	
SMS	SpotMe server + 2 sensor cables + flight case - Weight: 6.2 Kg	
FC1014/S	Flight-case for LLT range / GT stand / accessories - Weight: 68 Kg	

Photometrics report

optics: 5,5°-15° / Standard

• Optics @ 5,5°

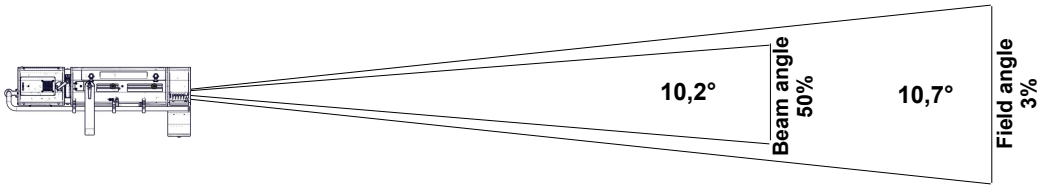
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
19 180 Lm		20 Lm/W	3 272 700 Cd	5 480 K	



Distance	30 m	40 m	50 m	60 m	70 m	80 m
Field diameter	3,2 m	4,3 m	5,3 m	6,4 m	7,5 m	8,5 m
Illumination	3 650 lux	2 050 lux	1 350 lux	910 lux	670 lux	520 lux
Distance	100 ft	130 ft	165 ft	195 ft	230 ft	260 ft
Field diameter	10,7 ft	13,9 ft	17,6 ft	20,8 ft	24,5 ft	27,7 ft
Illumination	330 fc	200 fc	130 fc	90 fc	65 fc	49 fc

• Optics @ 10°

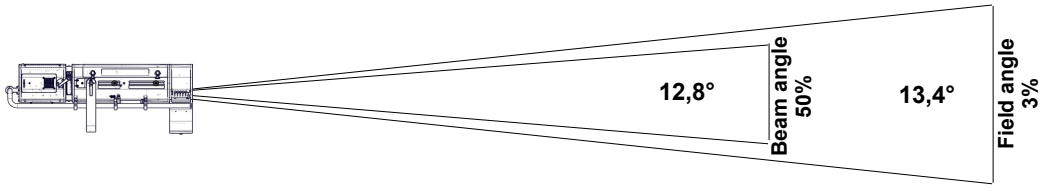
Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
27 570 Lm		29 Lm/W	1 251 200 Cd	5 370 K	



Distance	30 m	40 m	50 m	60 m	70 m	80 m
Field diameter	5,6 m	7,5 m	9,4 m	11,2 m	13,1 m	15 m
Illumination	1 400 lux	790 lux	510 lux	350 lux	260 lux	200 lux
Distance	100 ft	130 ft	165 ft	195 ft	230 ft	260 ft
Field diameter	18,7 ft	24,3 ft	30,9 ft	36,5 ft	43,1 ft	48,7 ft
Illumination	130 fc	75 fc	46 fc	33 fc	24 fc	19 fc

• Optics @ 15°

Field lumens	Beam lumens	Efficacy	Beam intensity	CCT	Delta uv
29 290 Lm		31 Lm/W	832 800 Cd	5 340 K	

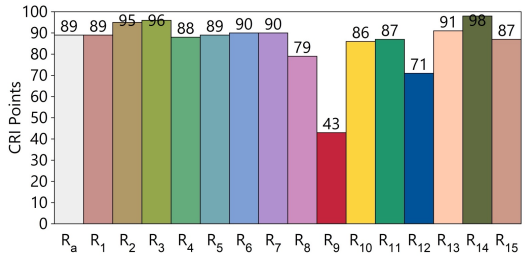


Distance	30 m	40 m	50 m	60 m	70 m	80 m
Field diameter	7 m	9,4 m	11,7 m	14,1 m	16,4 m	18,8 m
Illumination	930 lux	530 lux	340 lux	240 lux	170 lux	140 lux
Distance	100 ft	130 ft	165 ft	195 ft	230 ft	260 ft
Field diameter	23,5 ft	30,5 ft	38,8 ft	45,8 ft	54 ft	61,1 ft
Illumination	85 fc	50 fc	31 fc	22 fc	16 fc	13 fc

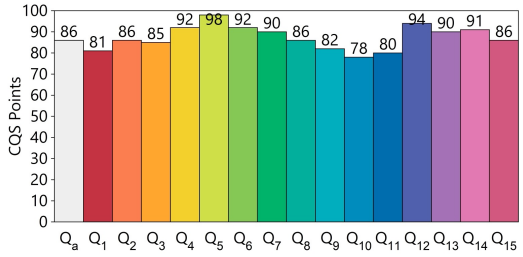
Light quality report

CCT	DeltaUV	CRI Ra	CRI R9	CQS Qa	TM30-18 Rf	TM30-18 Rg	TLCI	SSI [D5479]
5 480K	-0.0006	89	43	86	88	96	84	71

CRI - CIE Colour Rendering Index

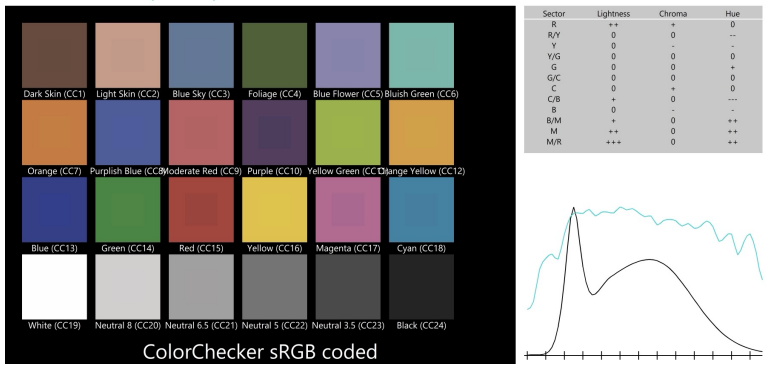


CQS - NIST Colour Quality Scale

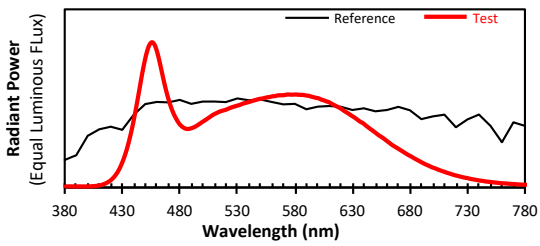


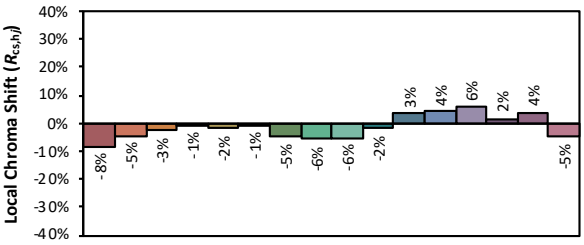
TLCI - Television Lighting Consistency Index

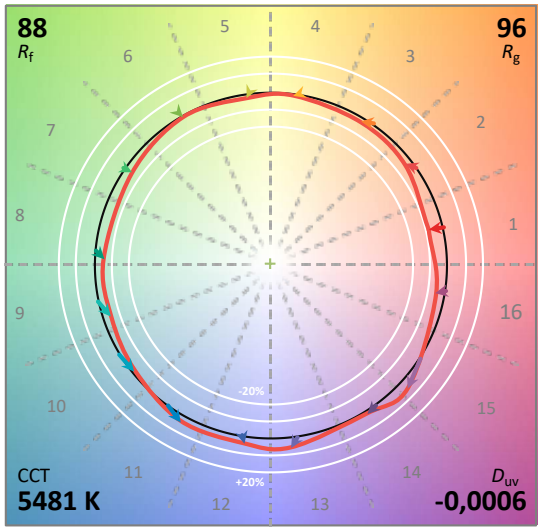
Test : CCT = D5480 (-0.7)
TLCI-2012 : 84 (D5480)

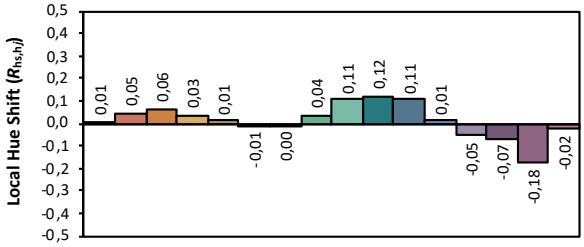


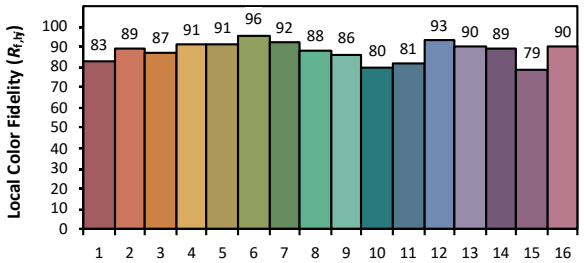
ANSI/IES TM-30-18 Colour Rendition Report

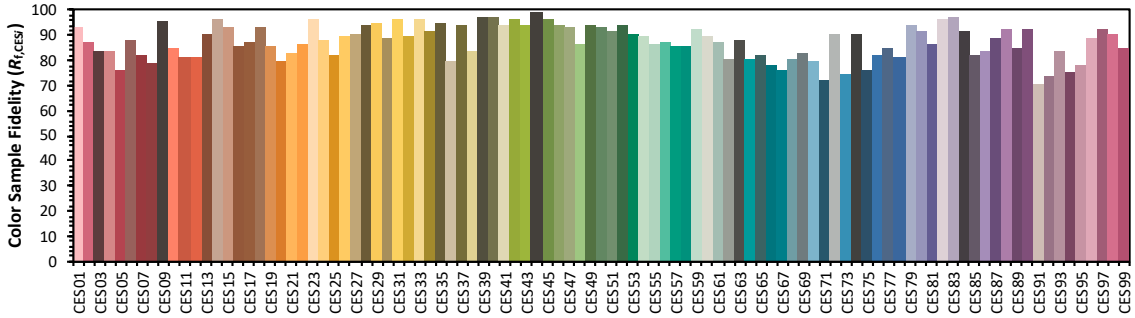












Colours are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00

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