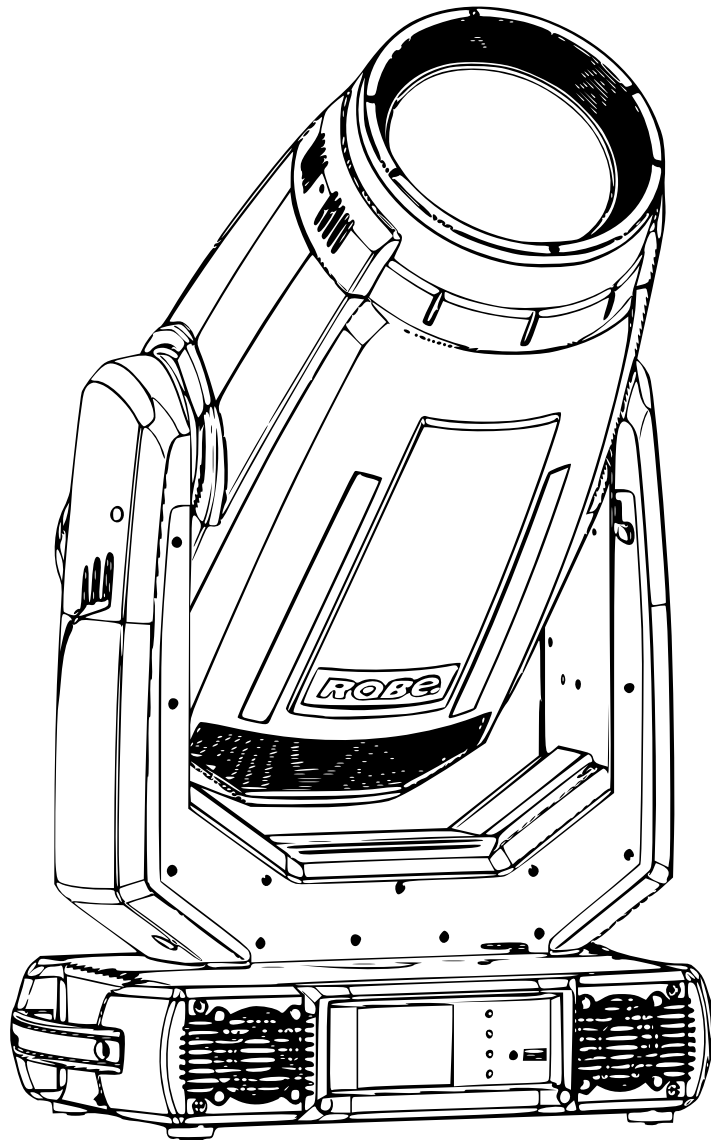


ESPRITE™



ROBE®

ESPRITE HCF

Photometric report

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ESPRITE HCF

Photometric report

Total Lumen output measurements

Total lumen output is measured by a Goniophotometer device according to EN 13032-1 within our state of the art ROBE lighting Ltd. photometric laboratory. We measure light emitted from the fixture at all radiating angles for minimum, maximum and mid zoom range. As a confirmation method we also measure lumens on the wall. Data from both measurements are processed in the software to calculate all photometric data. We provide photometric data in IES and LDT file and photometric report that includes spectrum, light distribution, TM30-15 and TLCI report.

Measurement conditions

For absolute consistency the Climate room temperature is 25°C. Fixtures are operated for at least 30 minutes for stabilization. Measurement angles used: -90° to +90° pan (-90° to +90° tilt), step 1°. A step angle of 10° is used for fixtures with elliptical or asymmetrical light output. Distances used are 5 m or 10 m.

All fixtures to produce the data are calibrated and checked for several photometric parameters, such as Intensity, CCT, CRI and duv, to meet all the specified values.

Equipment

Konica Minolta Illuminance Spectrophotometer CL-500A

Konica Minolta Illuminance Colour Meter CL-200A

Konica Minolta CRI Illuminance meter CL-70F

PRC Krochmann Radiolux 111

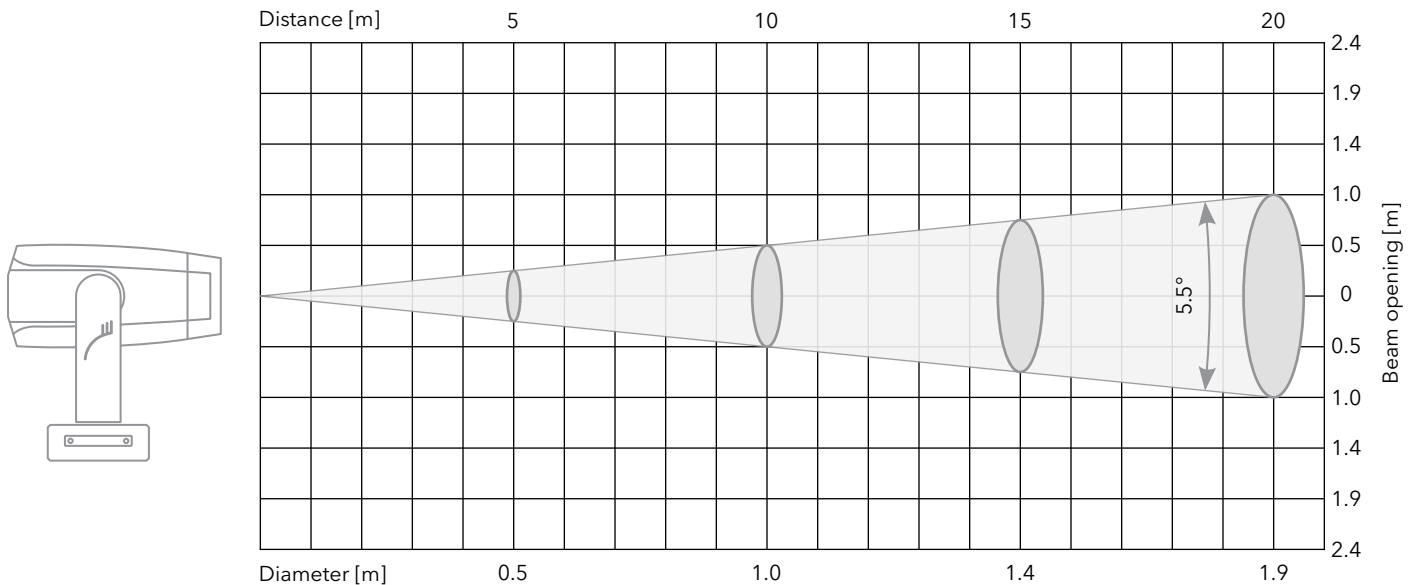
- Photometric measurement head
- UVA and UVC measurement head

ESPRITE HCF

Photometric report

Beam angle 5.5° - Min. zoom

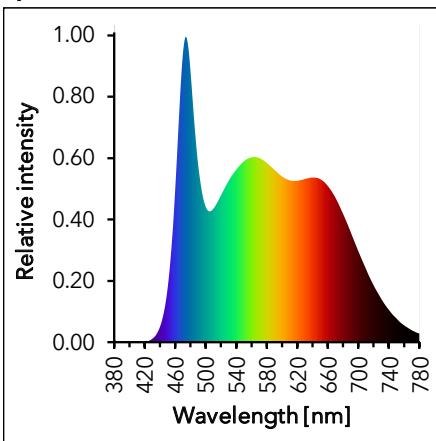
Beam angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
5.5°	11303 lm	10822 lm	1438025 cd	870 W



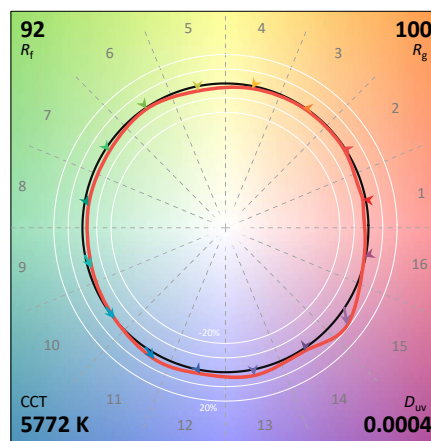
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High-Power Mode	57521/5344	14380/1336	6391/594	3595/334	1598/148	899/83	575/53	10822
Auto Fan Mode	51007/4739	12752/1185	5667/527	3188/296	1417/132	797/74	510/47	9646
High Fan Mode	54264/5041	13566/1260	6029/560	3392/315	1507/140	848/79	543/50	10261
Quiet Fan Mode	37455/3480	9364/870	4162/387	2341/217	1040/97	585/54	375/35	7083

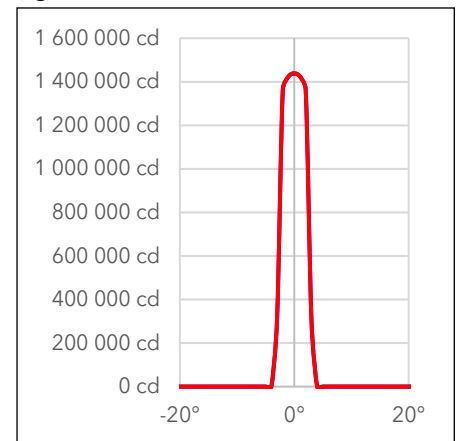
Spectrum



TM-30



Light distribution



Color temperature	CCT	5772
Color Deviation from Black	Duv	0.0004
Color Coordinate CIE 1931	x	0.3265
	y	0.3366
Color Coordinate	u	0.2045
	v	0.3163

Color rendering index	CRI	96
Red component	CRI R9	93
Color fidelity	TM30 Rf	92
Color gamut	TM30 Rg	100
Television consistency Index	TLCI	97

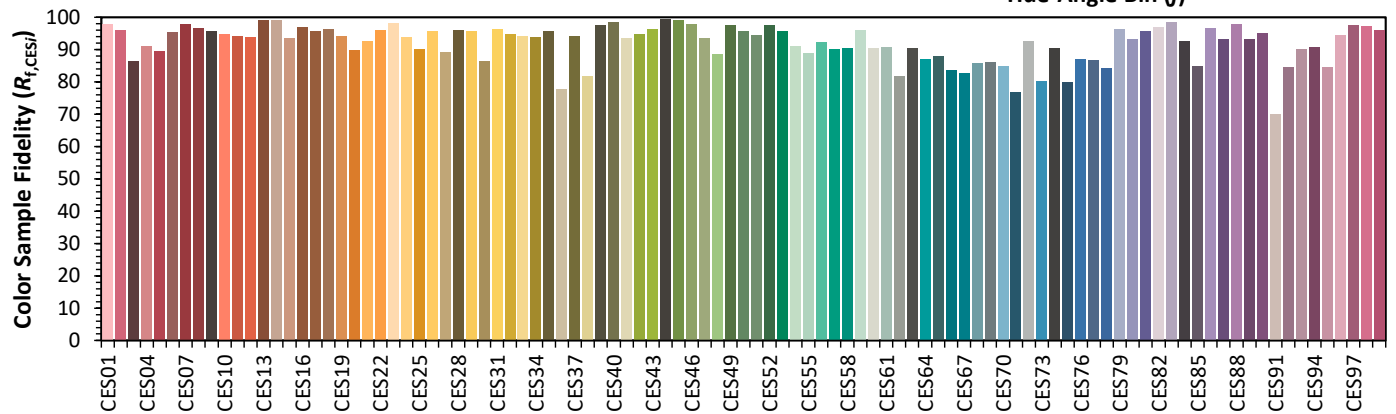
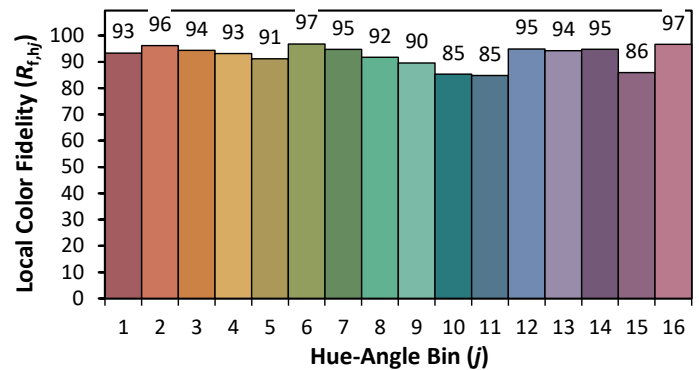
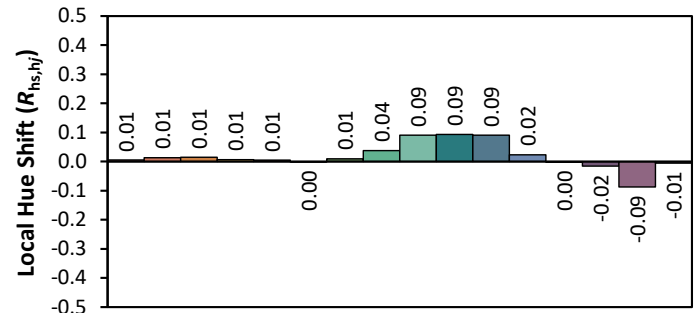
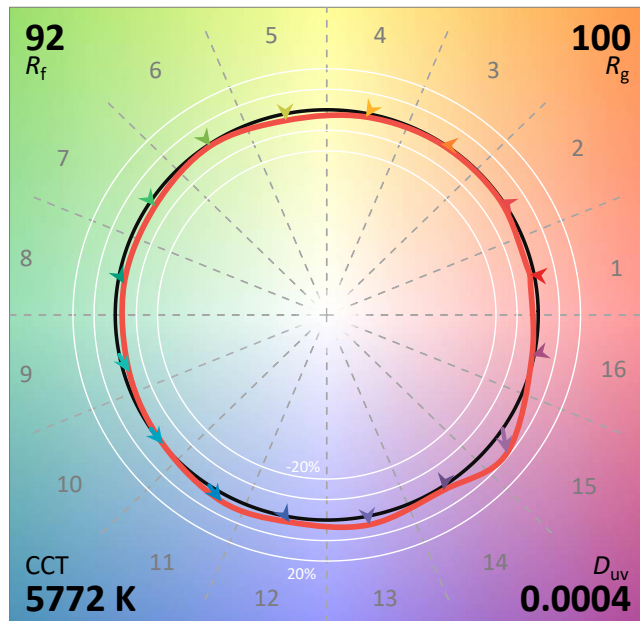
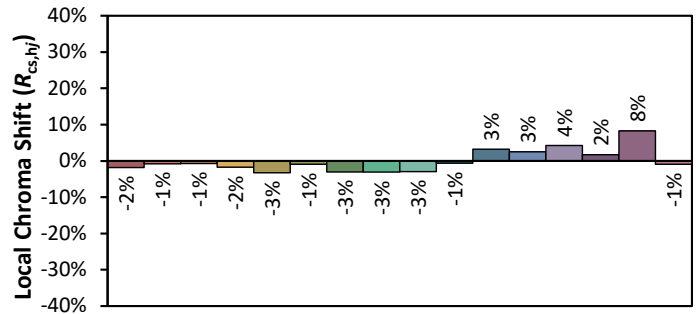
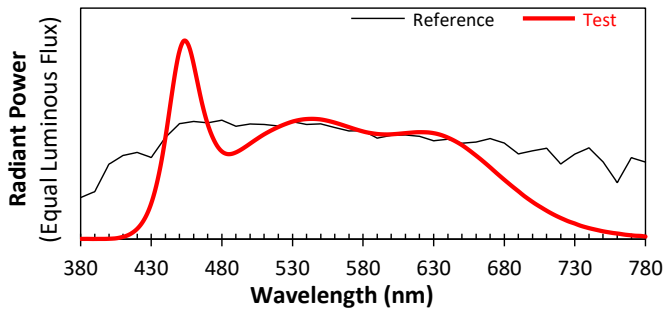
Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 11.02.2022

ESPRITE HCF

Photometric report

Beam angle 5.5° - Min. zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3265
y 0.3366
 u' 0.2045
 v' 0.4744

CIE 13.3-1995
(CRI)

R_a 96

R_g 93

Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 11.02.2022

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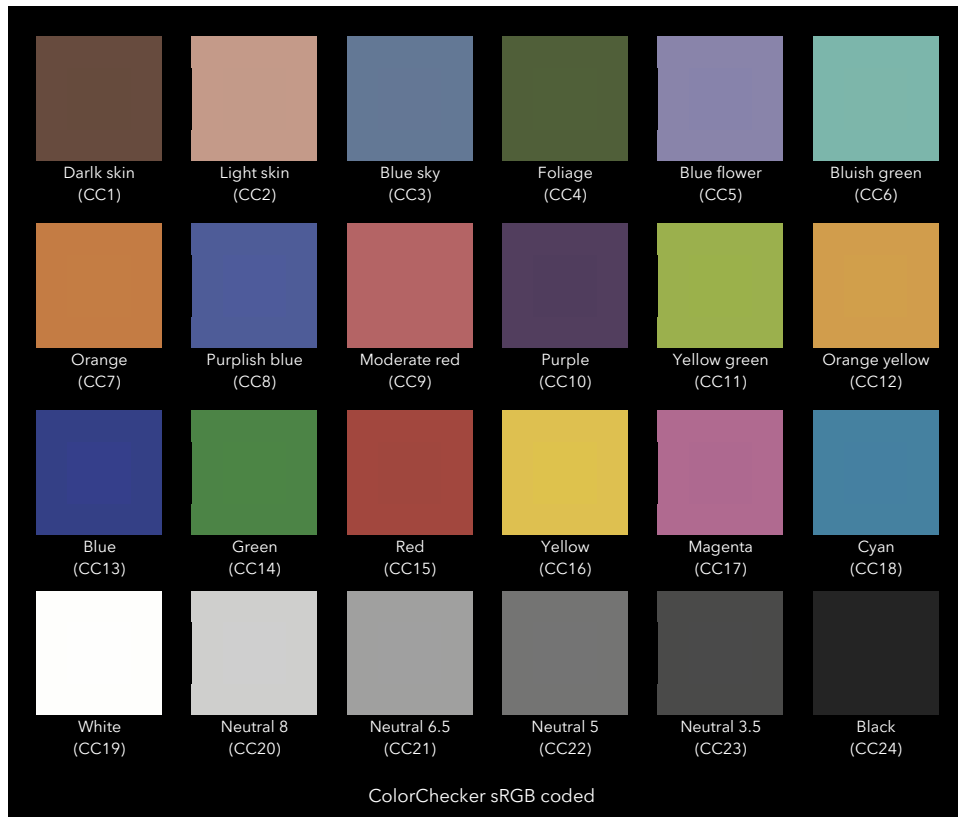
Photometric report

Beam angle 5.5° - Min. zoom

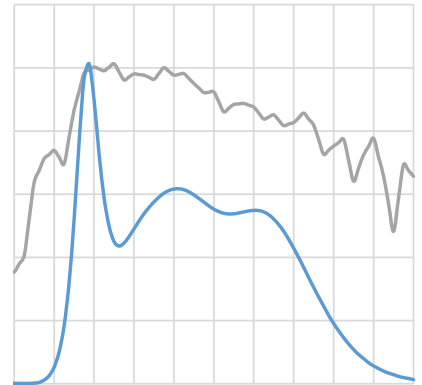
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5772 (+0.1)

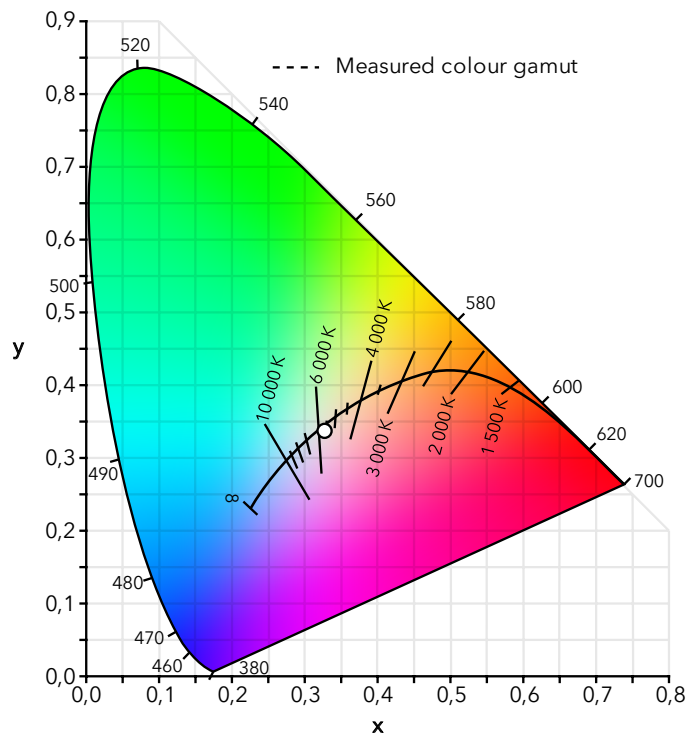
TLCI-2012: 97 (D5772)



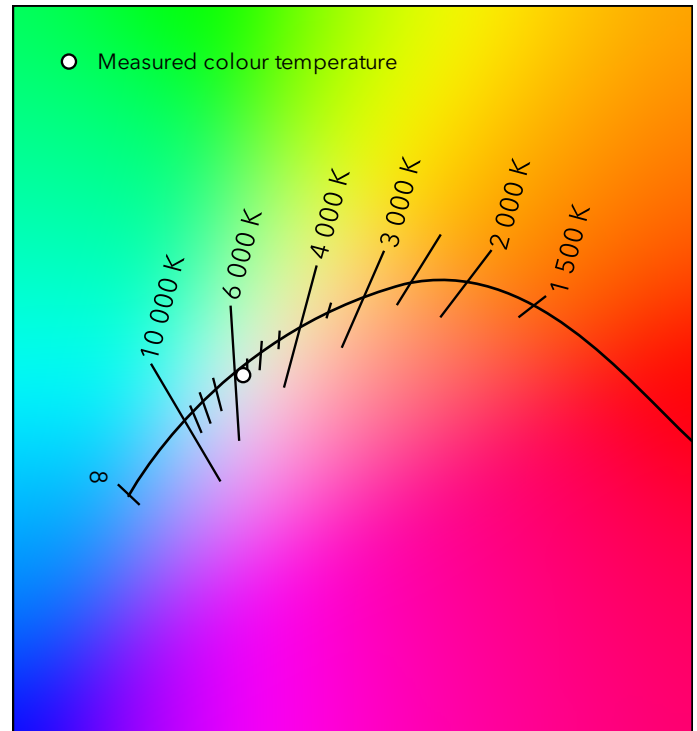
Sector	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	0
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	0
M	0	0	0
M/R	0	0	0



CIE 1931 color space gamut



Colour temperature



Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 11.02.2022

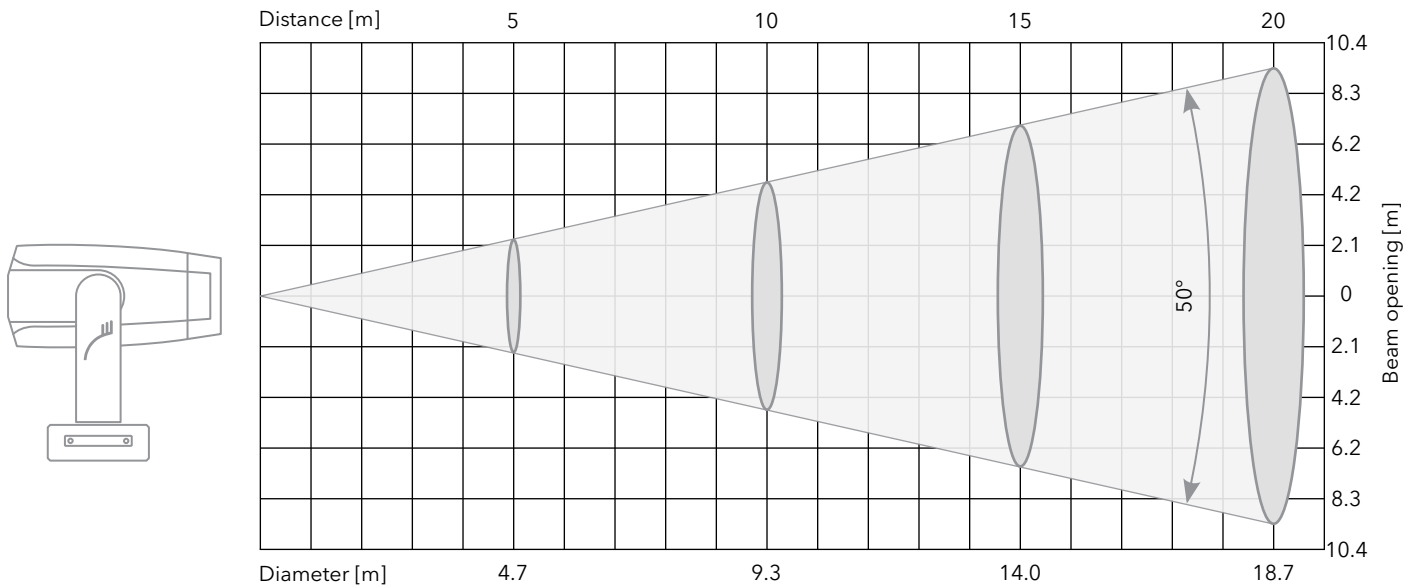
ROBE

ESPRITE HCF

Photometric report

Beam angle 50° - Max. zoom

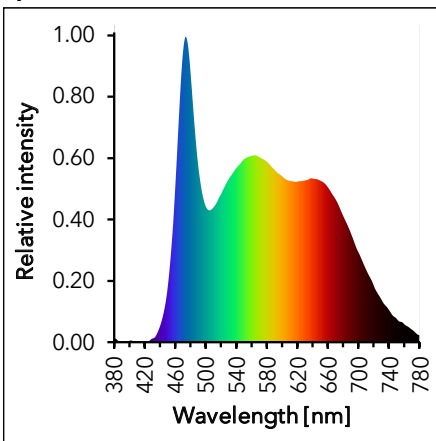
Beam angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
50°	22778 lm	18299 lm	34850 cd	870 W



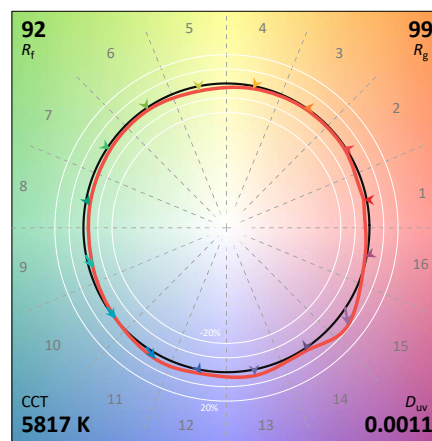
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High-Power Mode	1394/130	349/32	155/14	87/8	39/3.6	22/2	14/1.3	18299
Auto Fan Mode	1240/115	310/29	138/13	78/7	34/3.2	19/1.8	12/1.2	16229
High Fan Mode	1319/123	330/31	147/14	82/8	37/3.4	21/1.9	13/1.2	17265
Quiet Fan Mode	793/74	198/18	88/8	50/4.6	22/2	12/1.2	8/0.7	10381

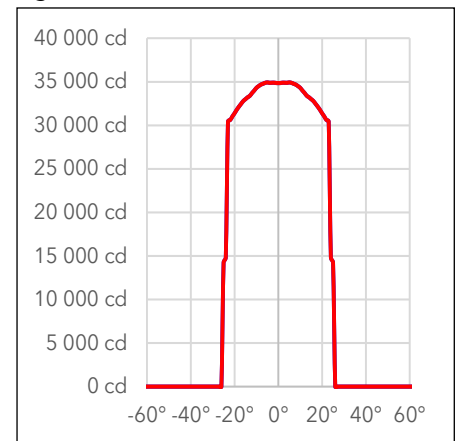
Spectrum



TM-30



Light distribution



Color temperature	CCT	5817
Color Deviation from Black	Duv	0.0011
Color Coordinate CIE 1931	x	0.3255
	y	0.3371
Color Coordinate	u	0.2036
	v	0.3163

Color rendering index	CRI	96
Red component	CRI R9	91
Color fidelity	TM30 Rf	92
Color gamut	TM30 Rg	99
Television consistency Index	TLCI	97

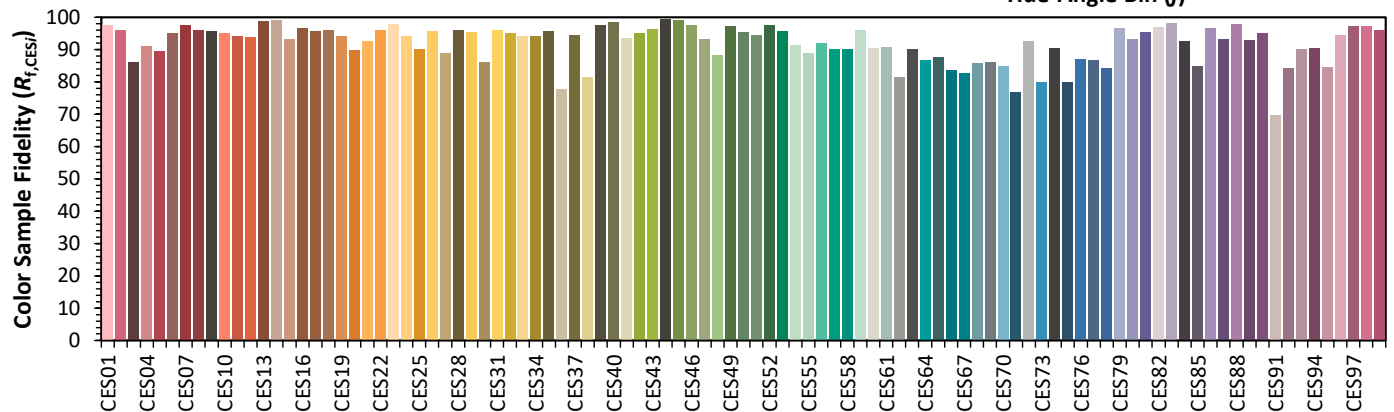
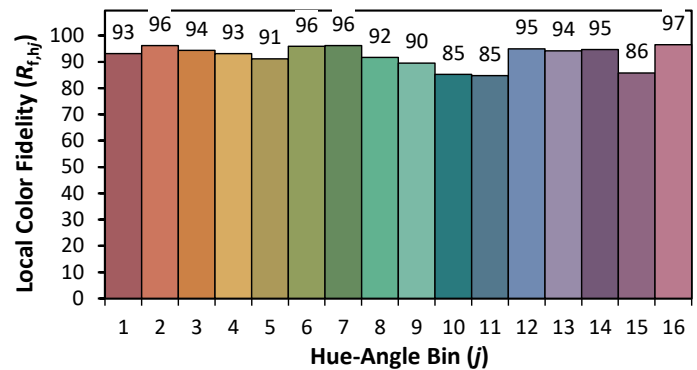
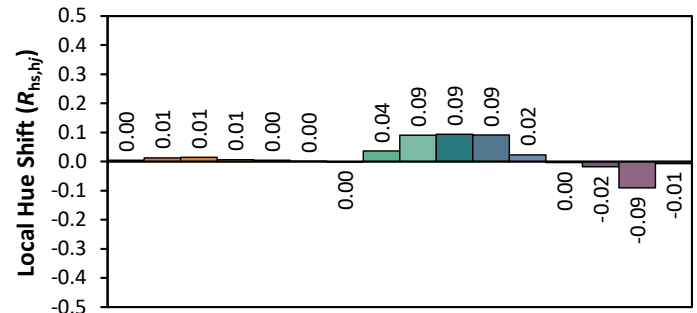
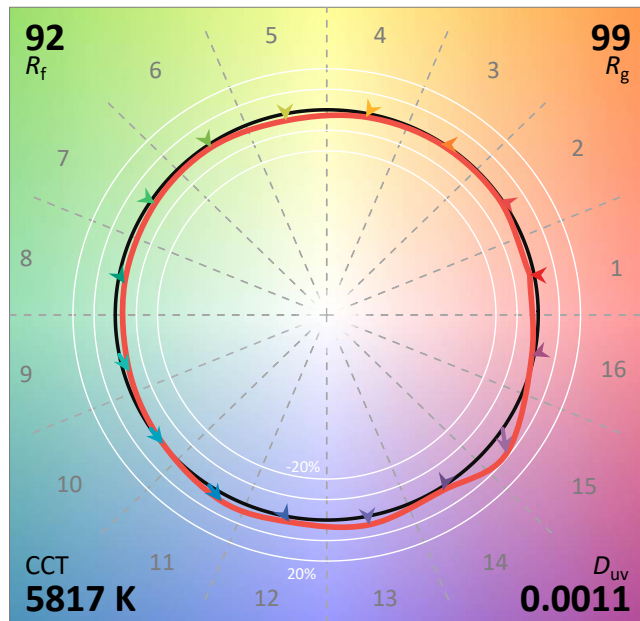
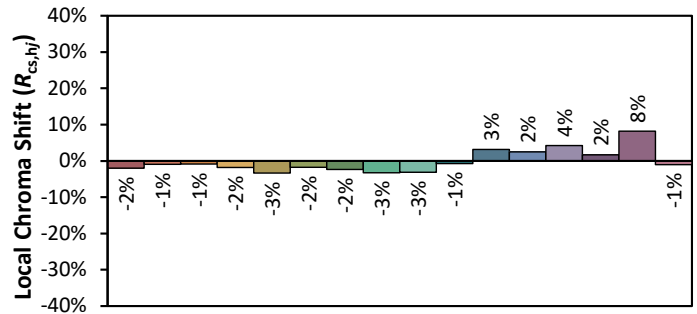
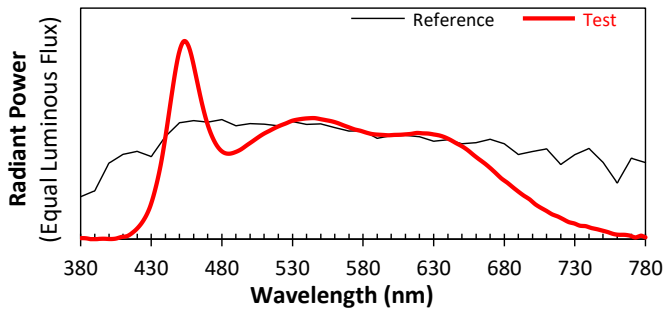
Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 11.02.2022

ESPRITE HCF

Photometric report

Beam angle 50° - Max. zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3255
y 0.3371
 u' 0.2036
 v' 0.4745

CIE 13.3-1995
(CRI)

R_a 96

R_g 91

Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 11.02.2022

ROBE

ESPRITE HCF

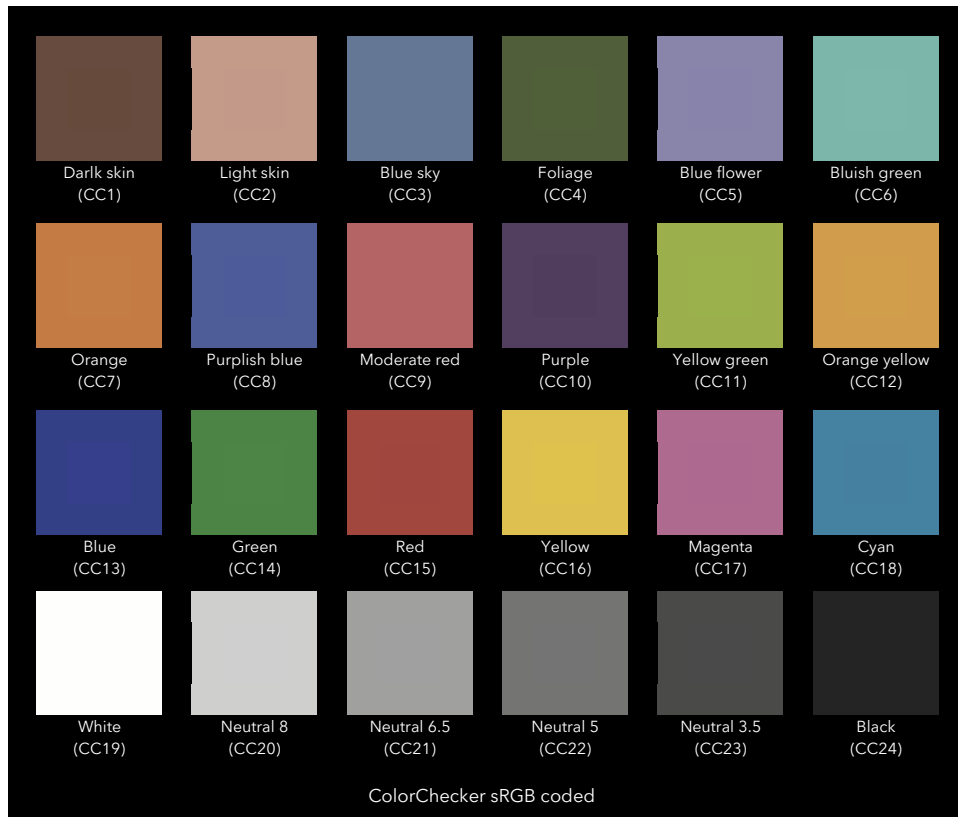
Photometric report

Beam angle 50° - Max. zoom

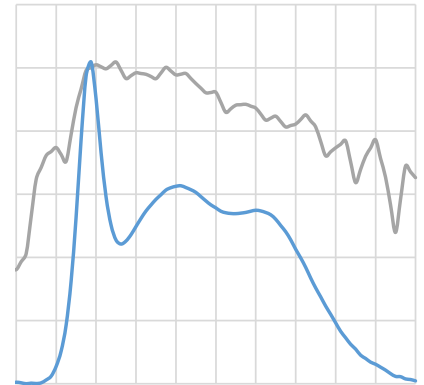
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5817 (+0.2)

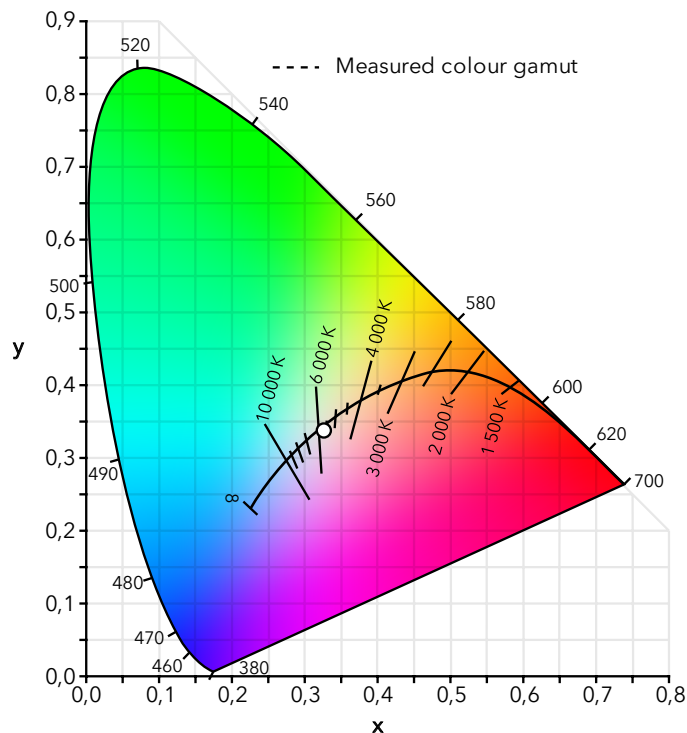
TLCI-2012: 97 (D5817)



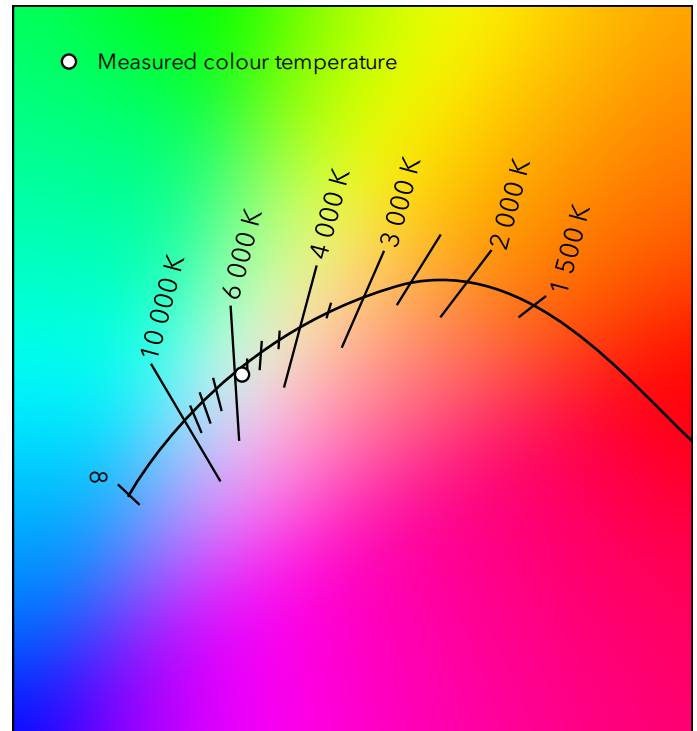
Sector	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	0
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	0
M	0	0	0
M/R	0	0	0



CIE 1931 color space gamut



Colour temperature



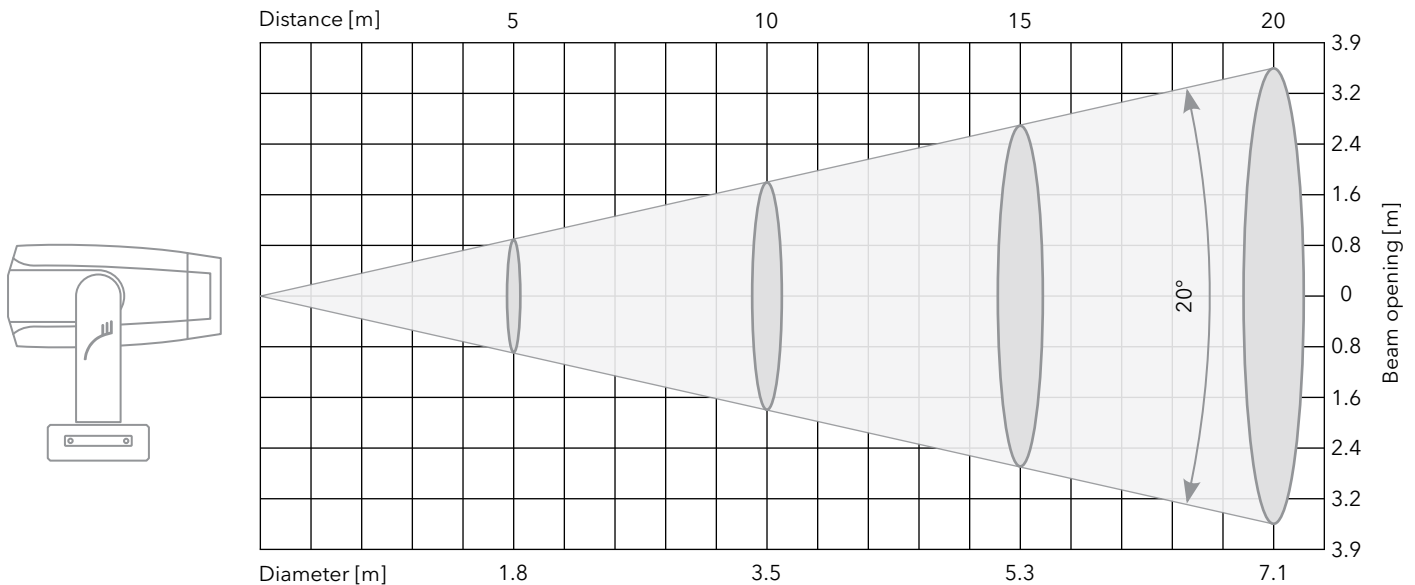
Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 11.02.2022

ESPRITE HCF

Photometric report

Beam angle 20° - Medium zoom

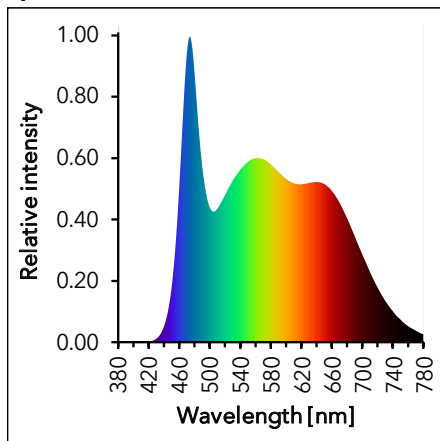
Beam angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
20°	19906 lm	15939 lm	190000 cd	870 W



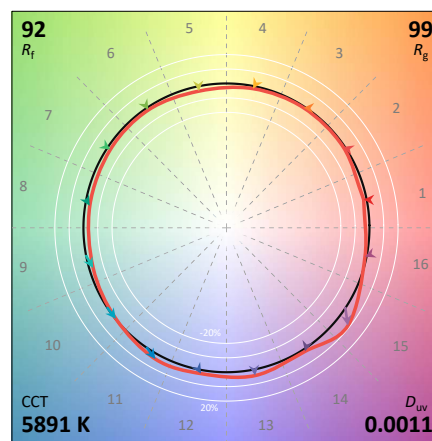
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High-Power Mode	7600/706	1900/177	844/78	475/44	211/20	119/11	76/7	15939
Auto Fan Mode	6786/630	1697/158	754/70	424/39	189/18	106/10	68/6	14231
High Fan Mode	7213/670	1803/168	801/74	451/42	200/19	113/10	72/7	15084
Quiet Fan Mode	4348/404	1087/101	483/45	272/25	121/11	68/6	43/4	9119

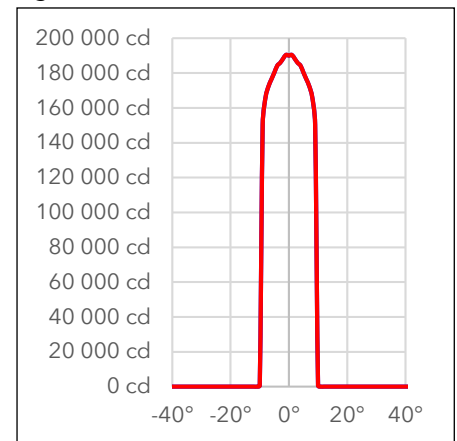
Spectrum



TM-30



Light distribution



Color temperature	CCT	5891
Color Deviation from Black	Duv	0.0011
Color Coordinate CIE 1931	x	0.3241
	y	0.3357
Color Coordinate	u	0.2031
	v	0.3157

Color rendering index	CRI	96
Red component	CRI R9	91
Color fidelity	TM30 Rf	92
Color gamut	TM30 Rg	99
Television consistency Index	TLCI	97

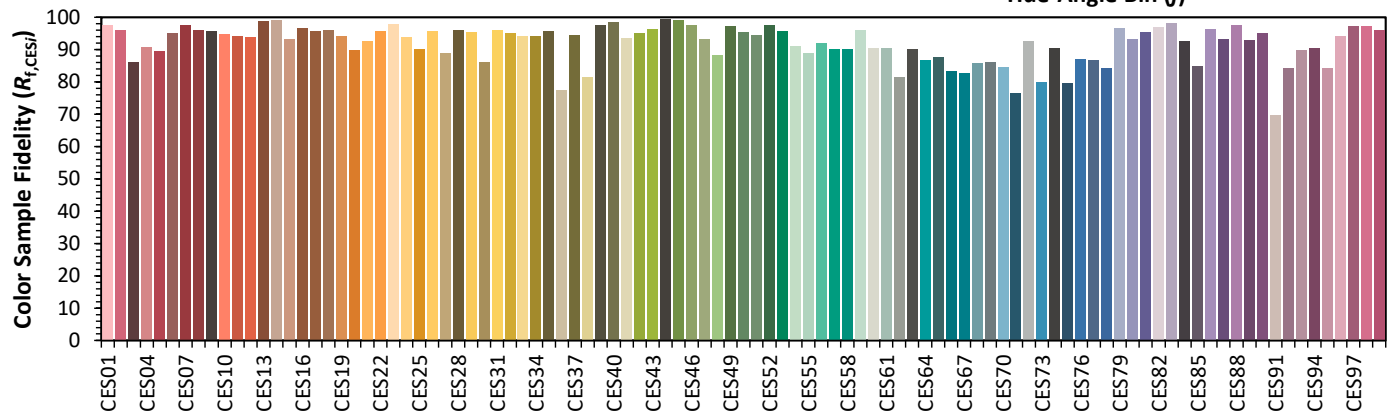
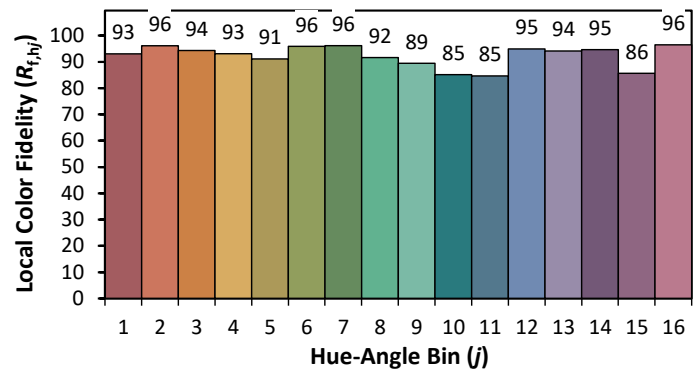
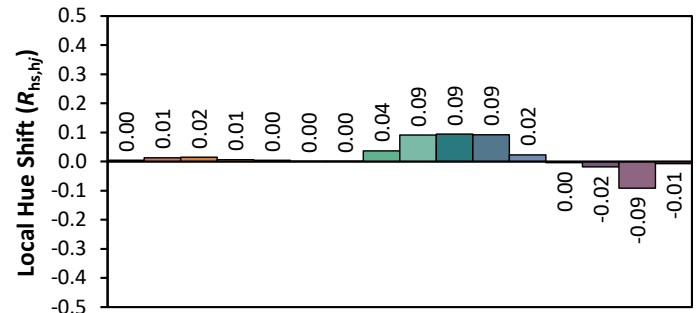
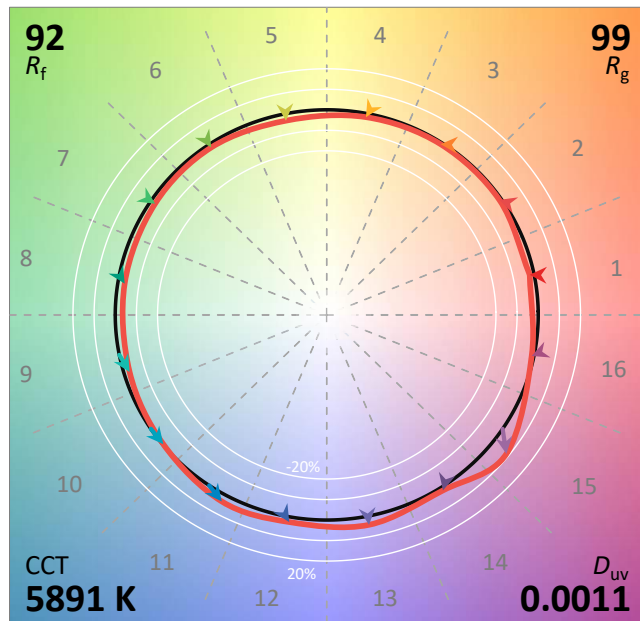
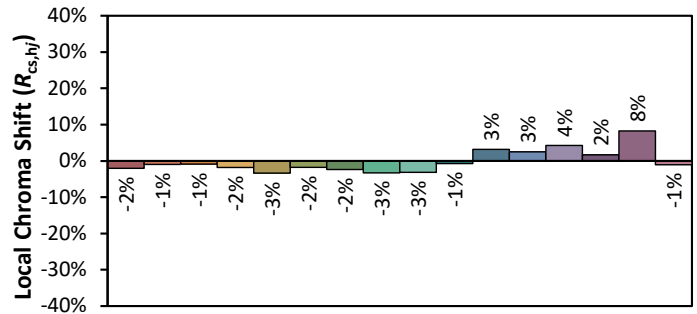
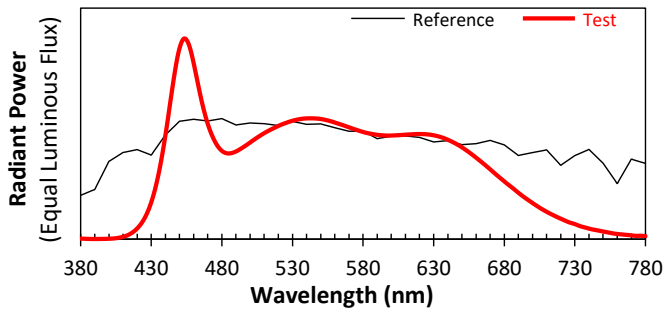
Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 11.02.2022

ESPRITE HCF

Photometric report

Beam angle 20° - Medium zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3240
y 0.3357
 u' 0.2031
 v' 0.4735

CIE 13.3-1995
(CRI)

R_a 96

R_g 91

Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 11.02.2022

ESPRITE HCF

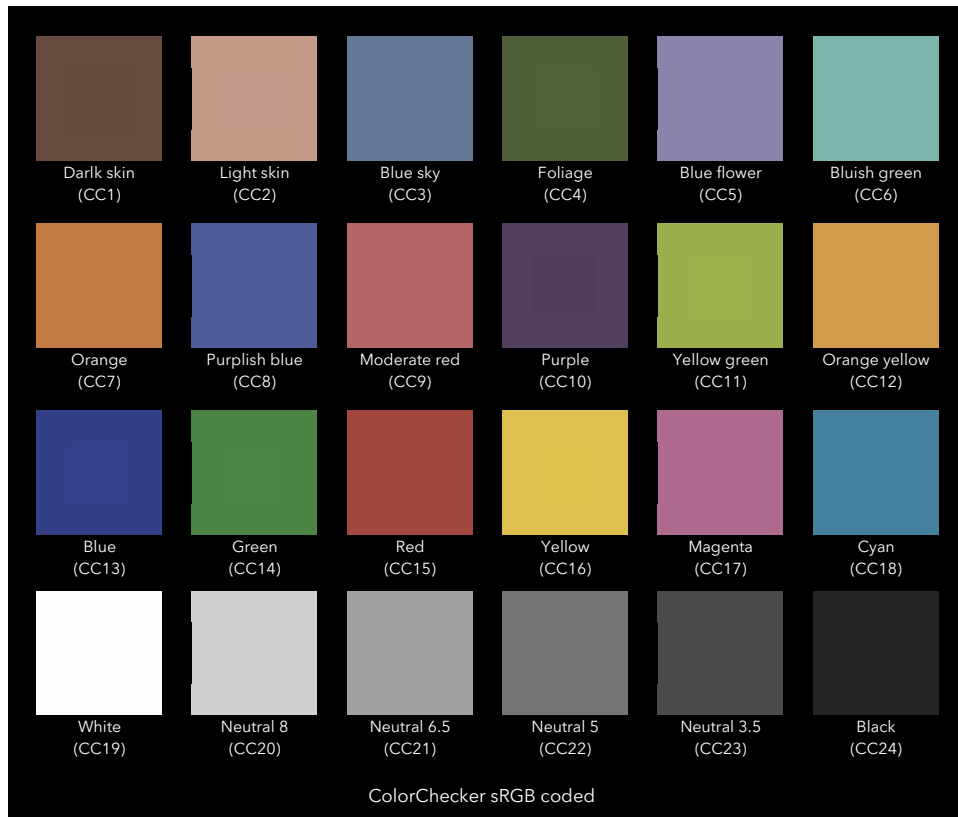
Photometric report

Beam angle 20° - Medium zoom

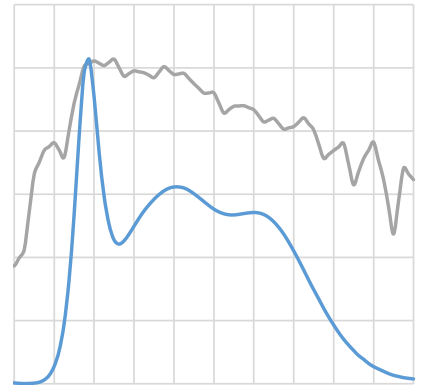
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5891 (+0.2)

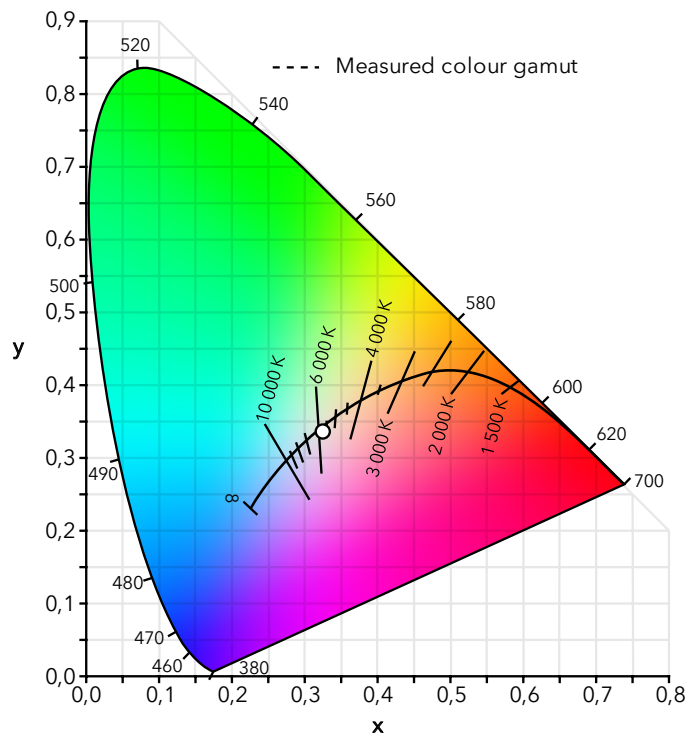
TLCI-2012: 97 (D5891)



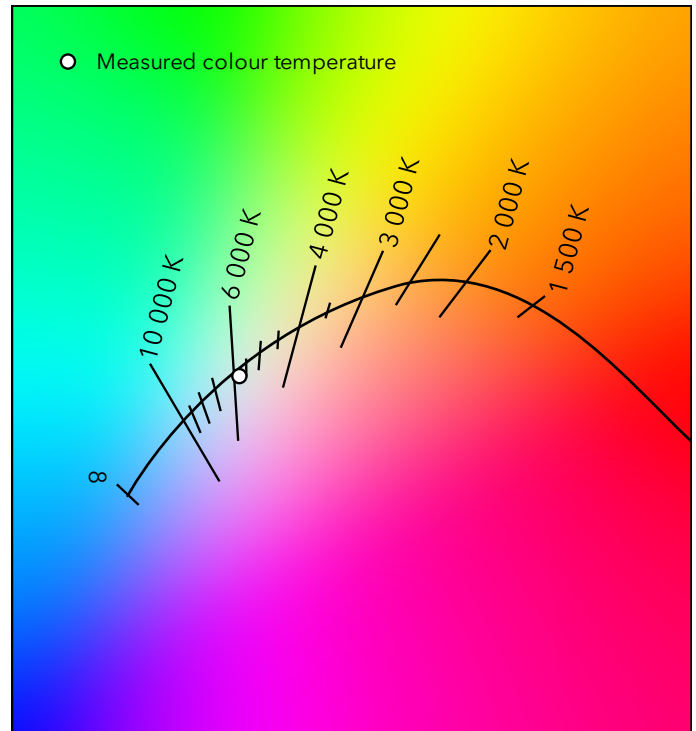
Sector	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	0
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	0
M	0	0	0
M/R	0	0	0



CIE 1931 color space gamut



Colour temperature



Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 11.02.2022