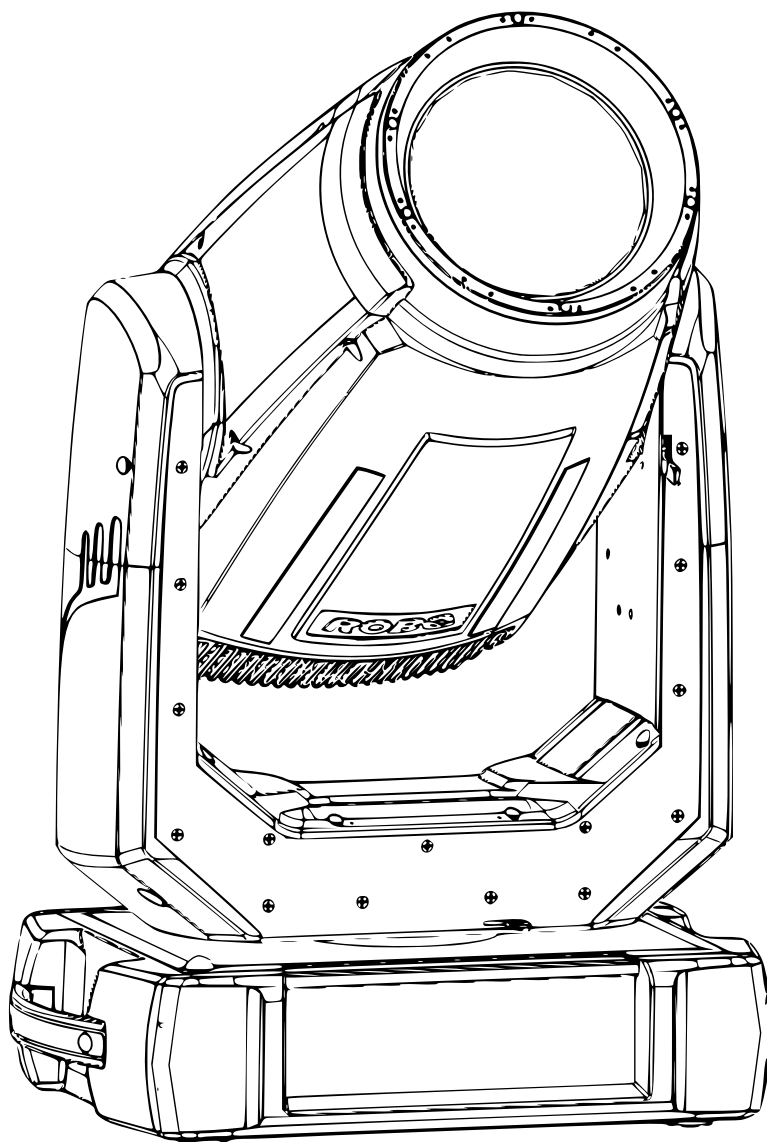




ROBE®

iESPRITE HCF

Photometric report

Contents

Basic information	3
Beam angle 5.5° - Min. zoom	6
Field angle 50° - Max. zoom	9
Field angle 20° - Medium zoom	12

iESPRITE 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

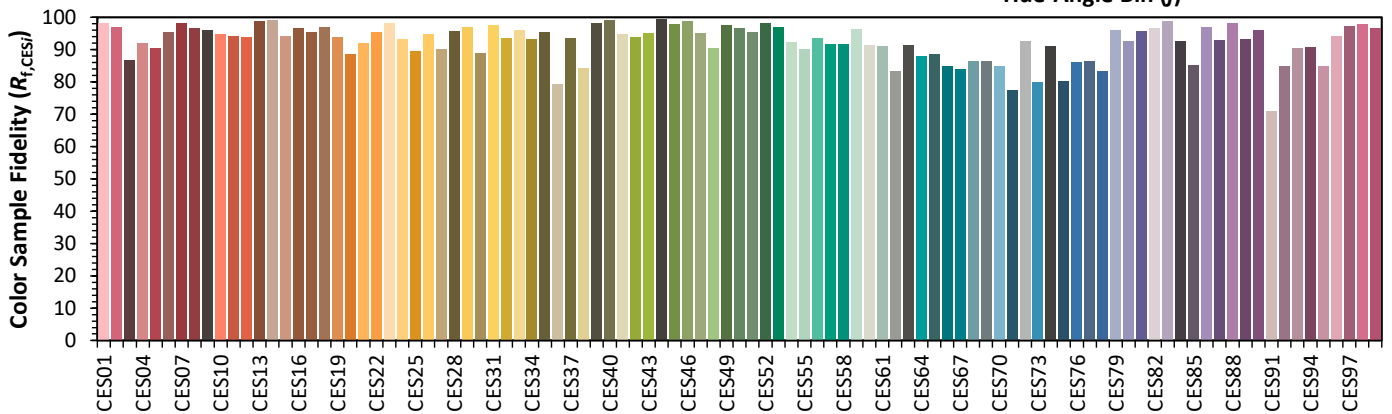
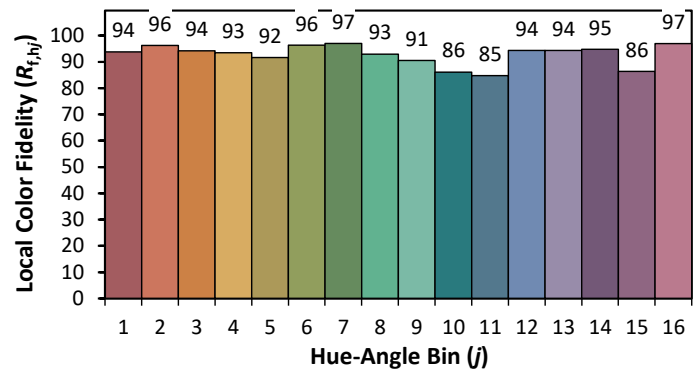
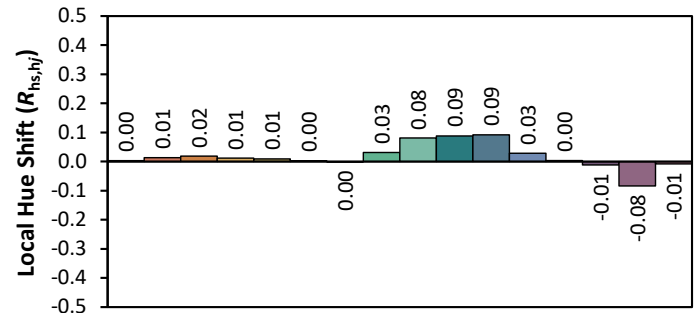
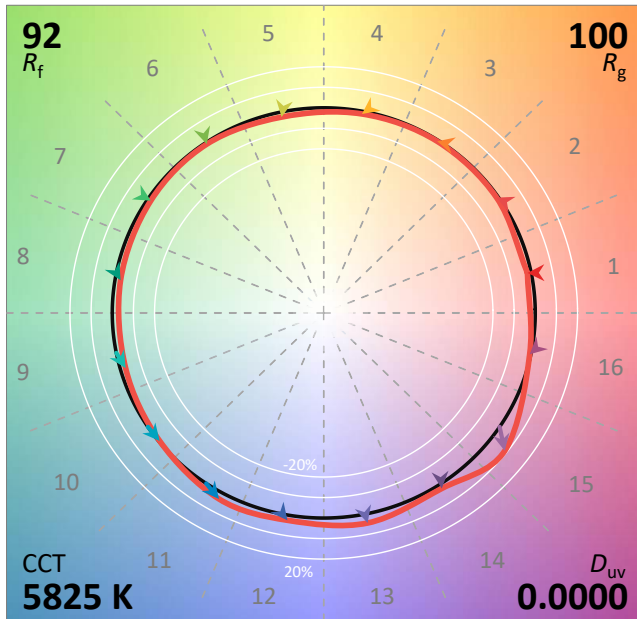
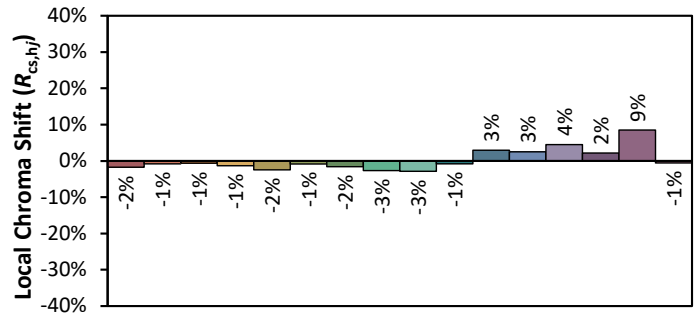
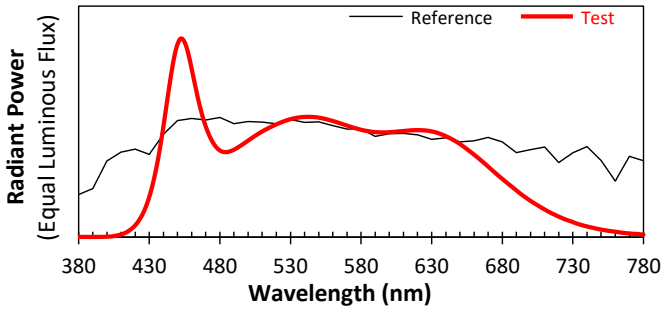
- Photometric measurement head
- UVA and UVC measurement head

iESPRITE HCF

Photometric report

Beam angle 5.5° - Min. zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3254

y 0.3349

u' 0.2044

v' 0.4733

CIE 13.3-1995
(CRI)

R_a 97

R_g 93

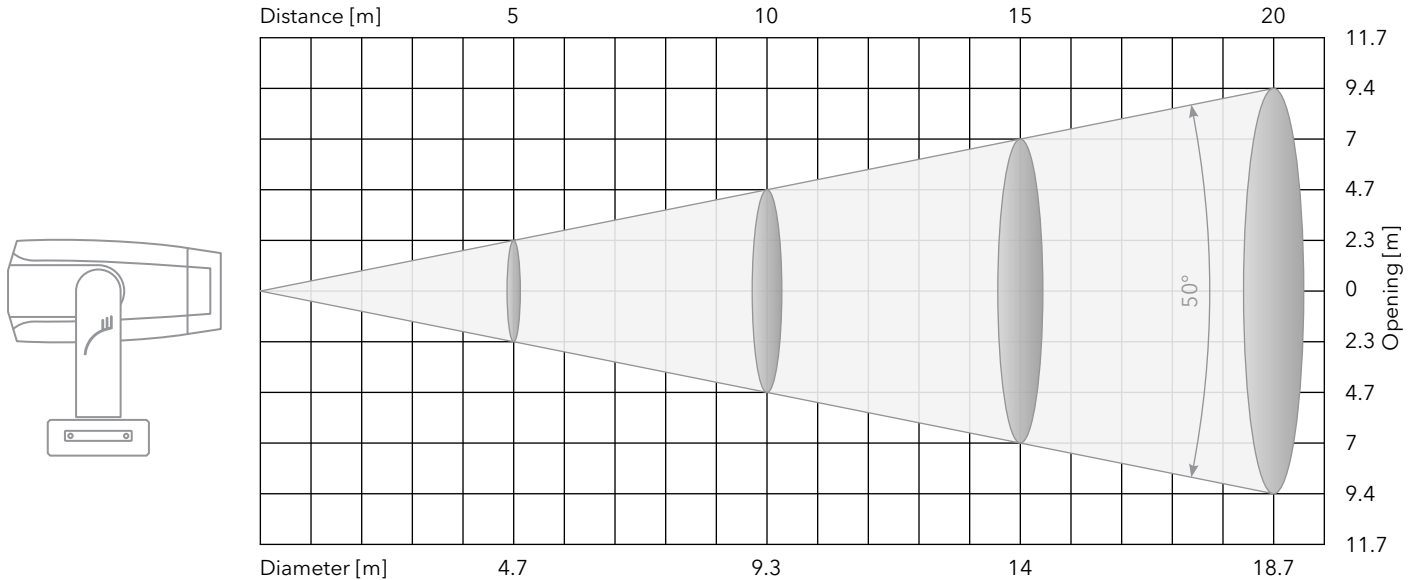
Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 23.11.2023

iESPRITE HCF

Photometric report

Field angle 50° - Max. zoom

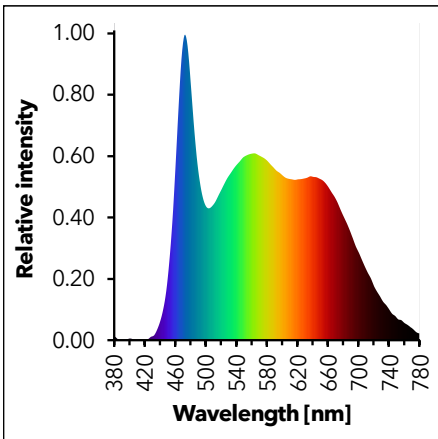
Field angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
50°	22620 lm	18096 lm	34475 cd	845 W



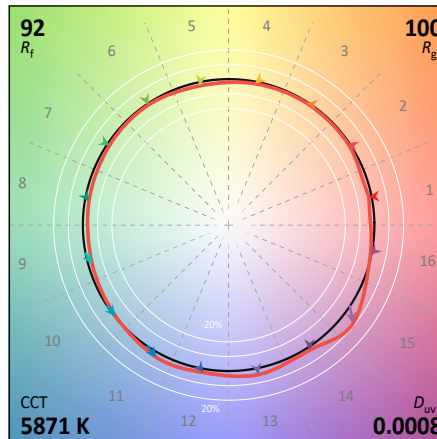
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High-Power Mode	1379/128	345/32	153/14	86/8	38/3.6	22/2	14/1.3	18096
Auto Fan Mode	1226/114	307/28	136/13	77/7	34/3.2	19/1.8	12/1.1	16088
High Fan Mode	1304/121	326/30	145/13	82/8	36/3.4	20/1.9	13/1.2	17112
Quiet Fan Mode	784/73	196/18	87/8	49/4.6	22/2	12/1.1	8/0.7	10288

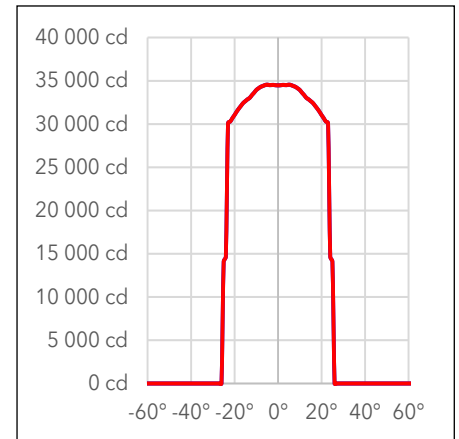
Spectrum



TM-30



Light distribution



Color temperature	CCT	5871 K
Color Deviation from Black	Duv	0.0008
Color Coordinate CIE 1931	x	0.3245
	y	0.3355
Color Coordinate	u	0.2036
	v	0.3156

Color rendering index	CRI	96
Red component	CRI R9	91
Color fidelity	TM30 Rf	92
Color gamut	TM30 Rg	100
Television consistency Index	TLCI	97

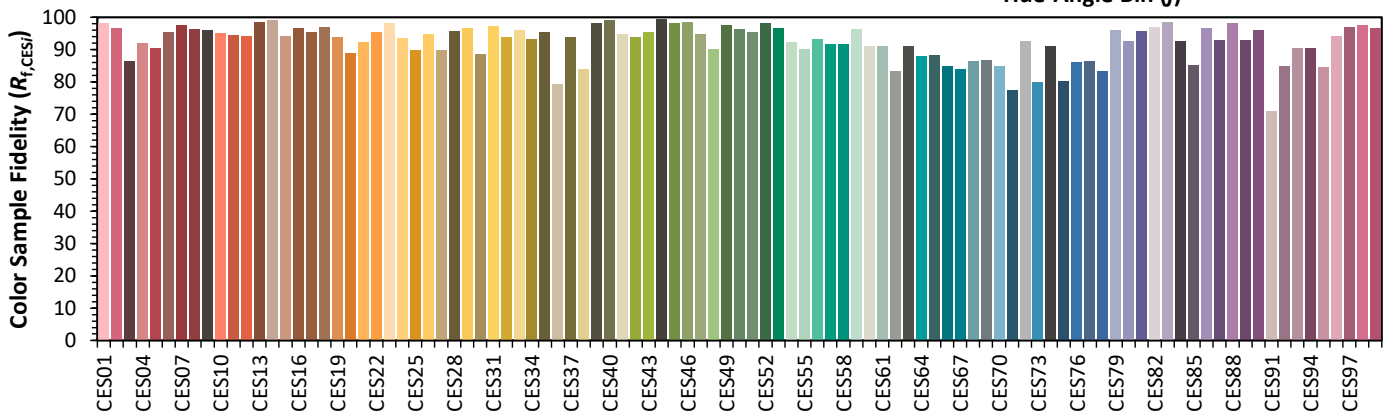
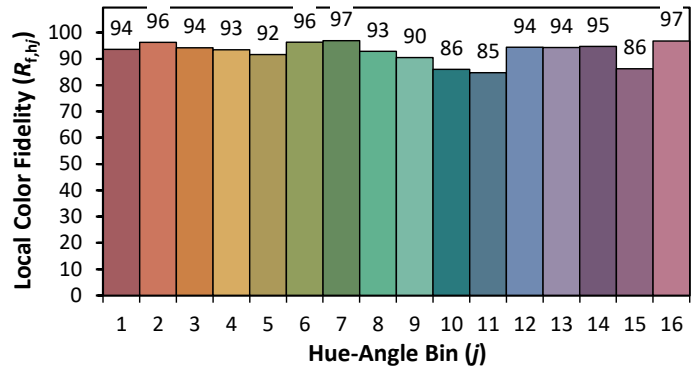
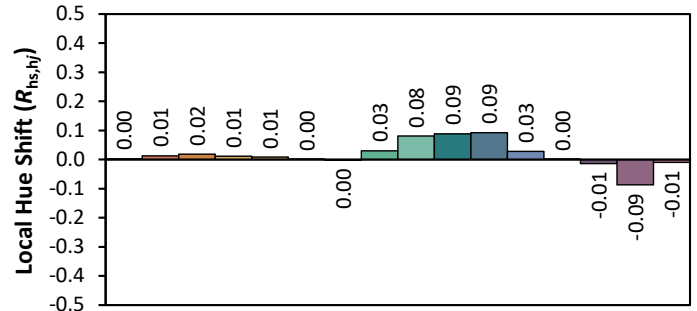
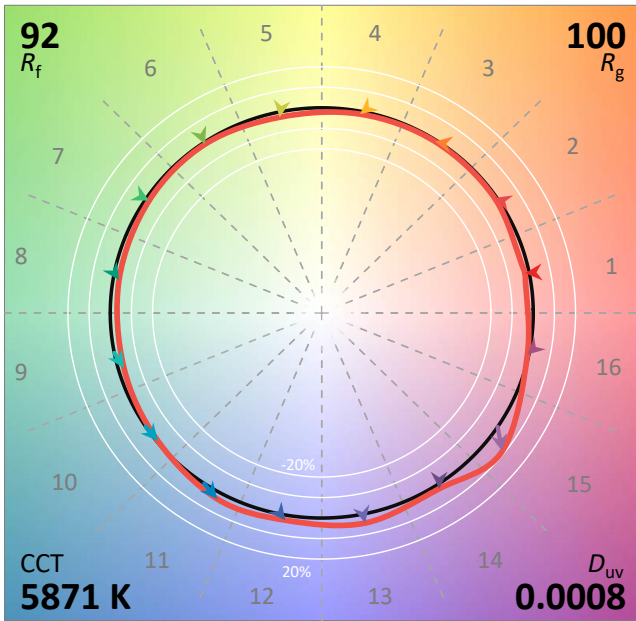
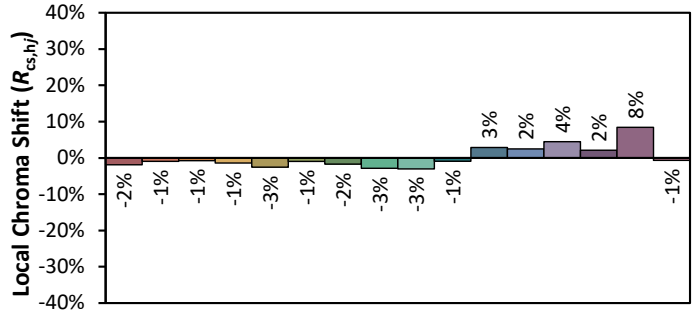
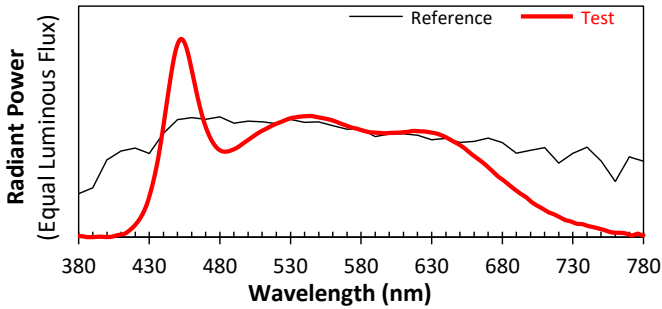
Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 23.11.2023

iESPRITE HCF

Photometric report

Field angle 50° - Max. zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3245

y 0.3354

u' 0.2036

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: 23.11.2023

IESPRITE HCF

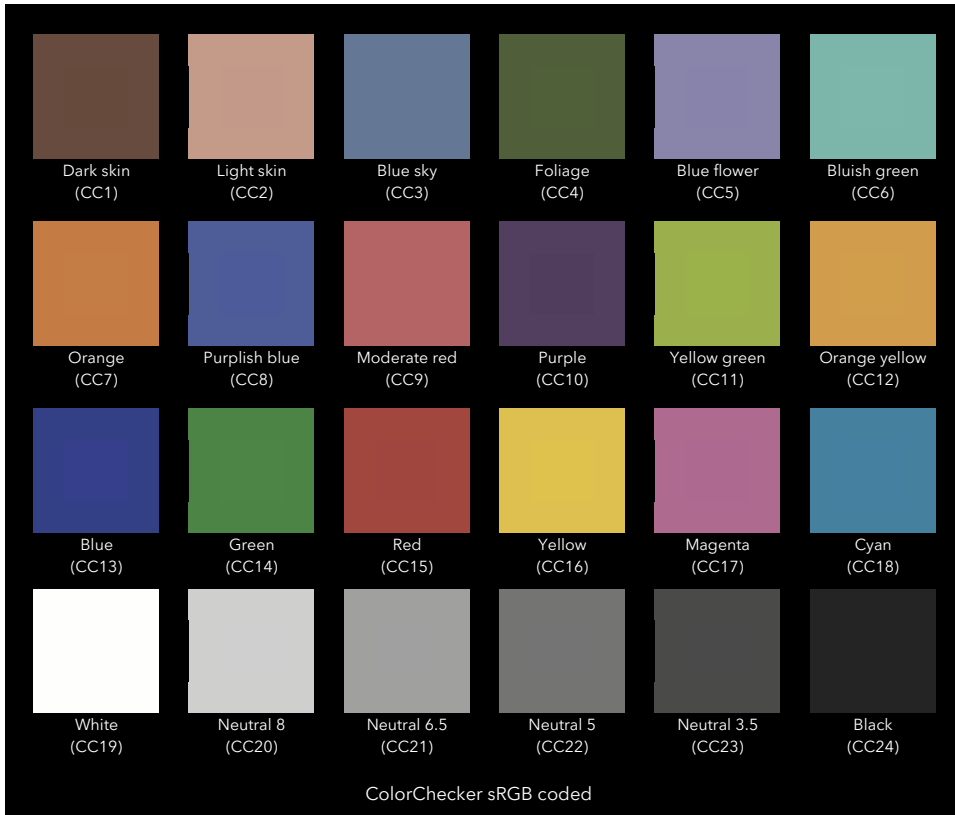
Photometric report

Field angle 50° - Max. zoom

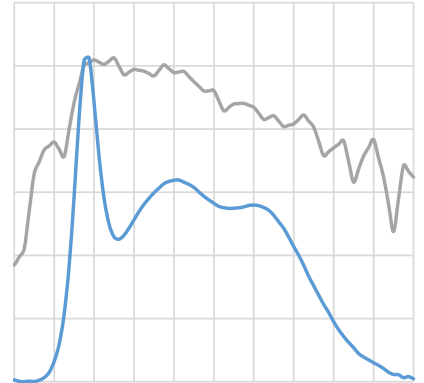
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5871 (+0.1)

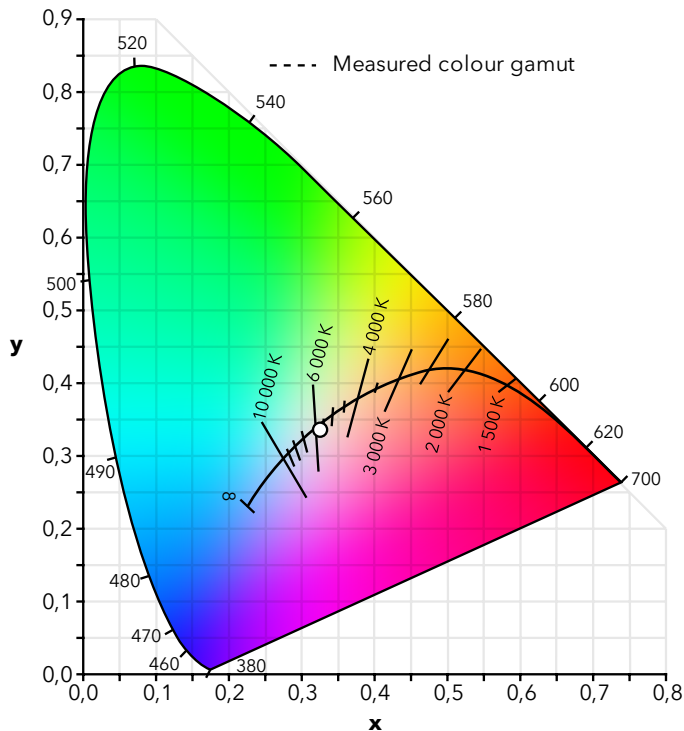
TLCI-2012: 97 (D5871)



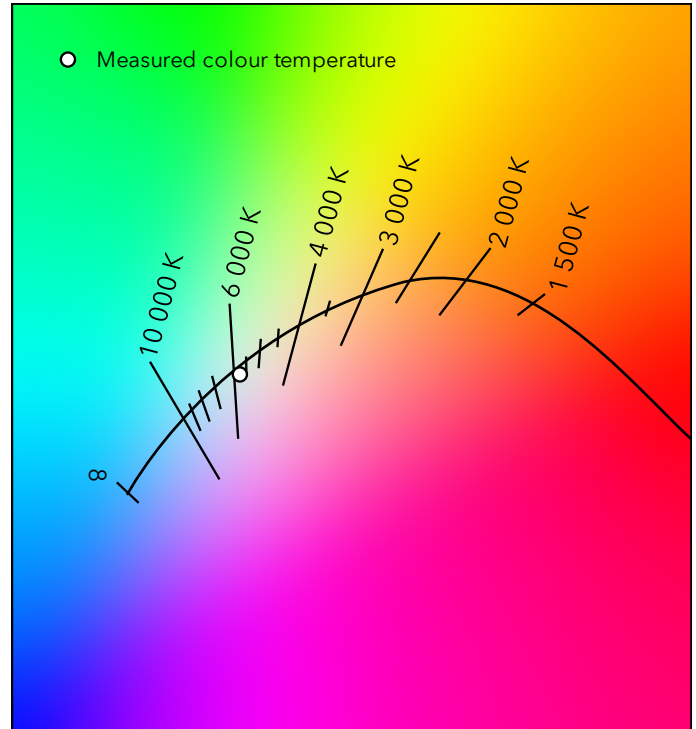
Sector	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	0
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	0
M	0	0	0
M/R	0	0	0



CIE 1931 color space gamut



Colour temperature



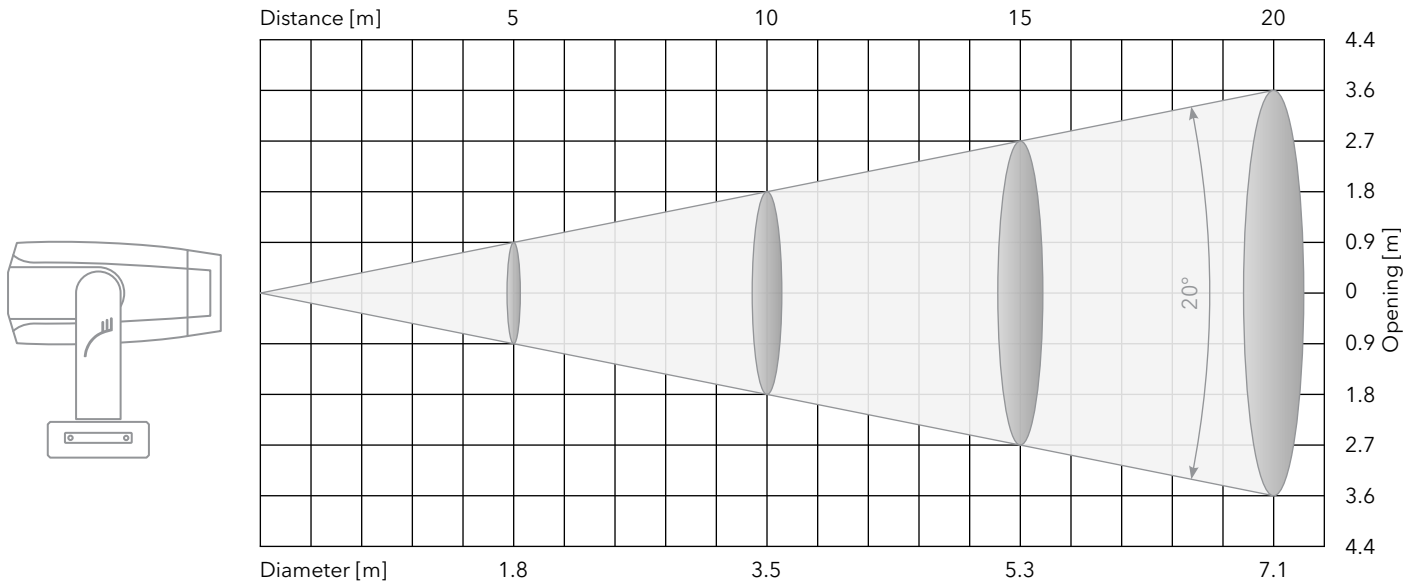
Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 23.11.2023

iESPRITE HCF

Photometric report

Field angle 20° - Medium zoom

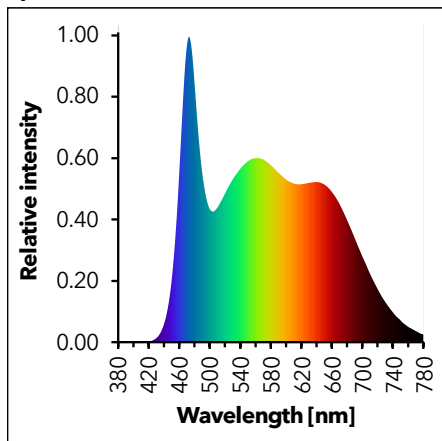
Field angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
20°	19704 lm	15763 lm	187900 cd	845 W



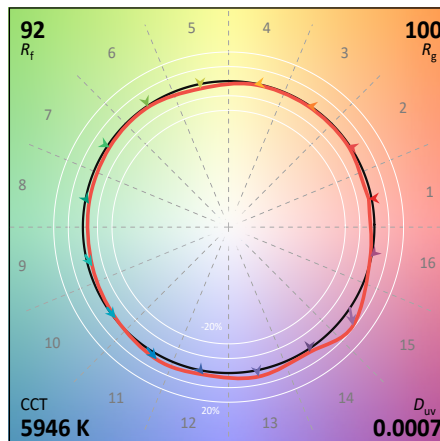
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High-Power Mode	7516/698	1879/175	835/78	470/44	209/19	117/11	75/7	15763
Auto Fan Mode	6711/623	1678/156	746/69	419/39	186/17	105/10	67/6	14075
High Fan Mode	7133/663	1783/166	793/74	446/41	198/18	111/10	71/7	14960
Quiet Fan Mode	4300/399	1075/100	478/44	269/25	119/11	67/6	43/4	9018

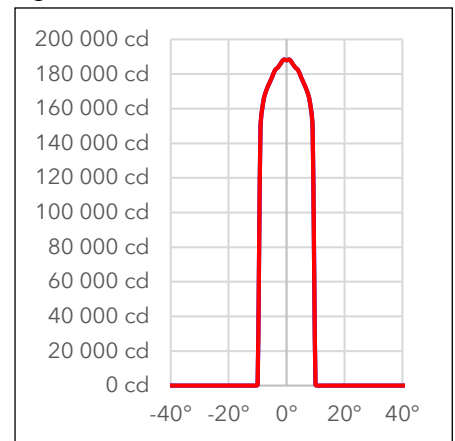
Spectrum



TM-30



Light distribution



Color temperature	CCT	5946 K
Color Deviation from Black	Duv	0.0008
Color Coordinate CIE 1931	x	0.3230
	y	0.3340
Color Coordinate	u	0.2031
	v	0.3150

Color rendering index	CRI	96
Red component	CRI R9	91
Color fidelity	TM30 Rf	92
Color gamut	TM30 Rg	100
Television consistency Index	TLCI	97

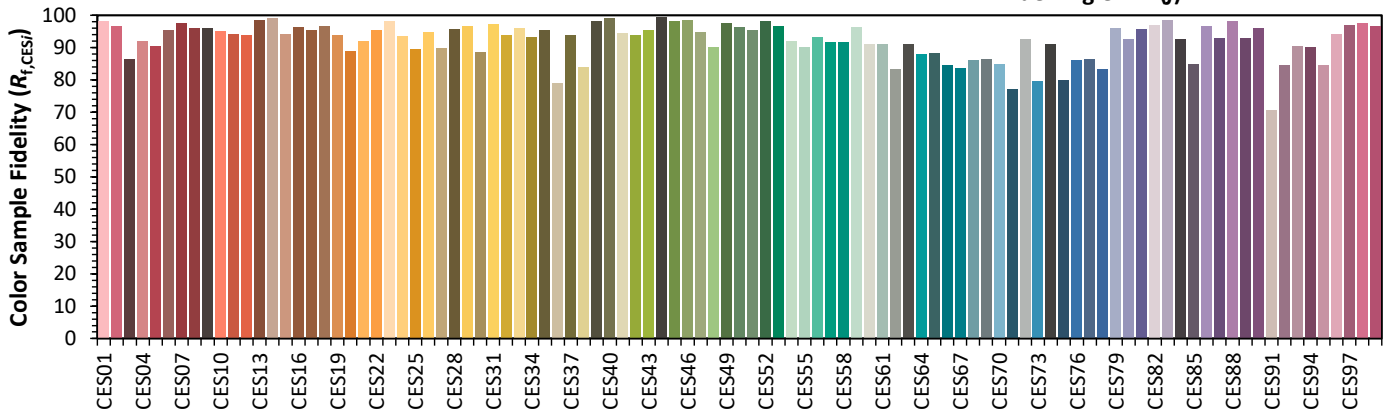
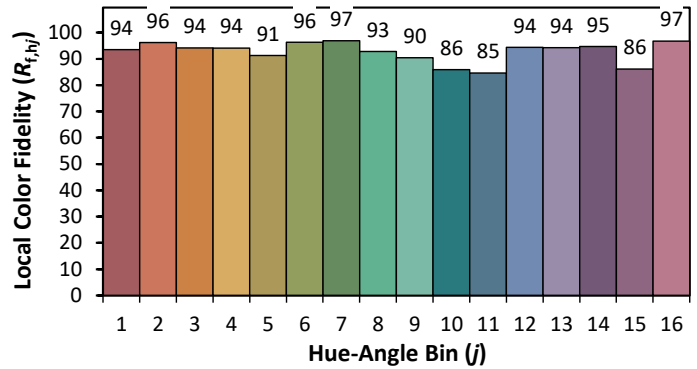
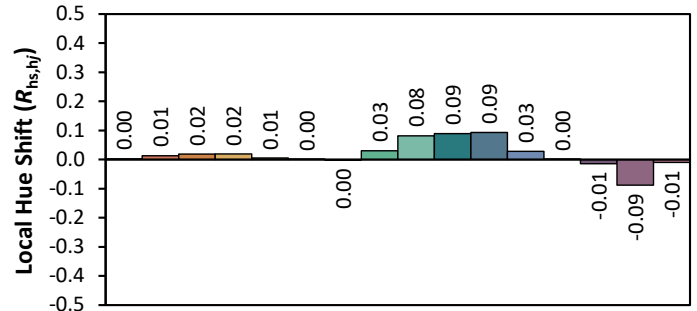
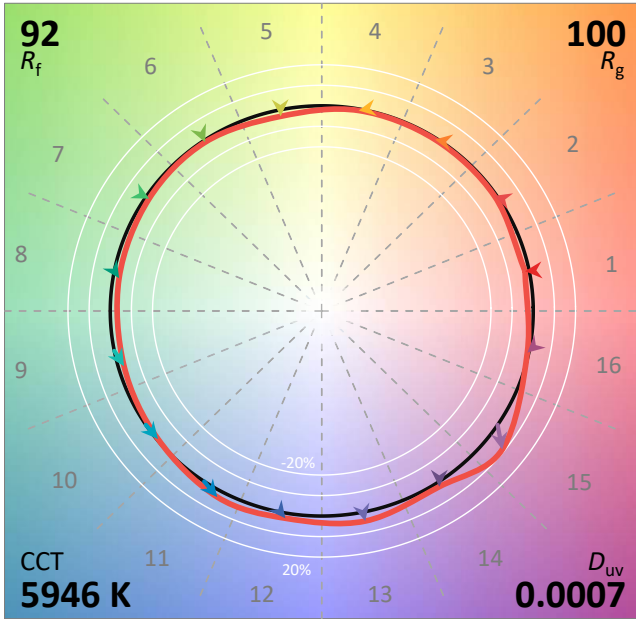
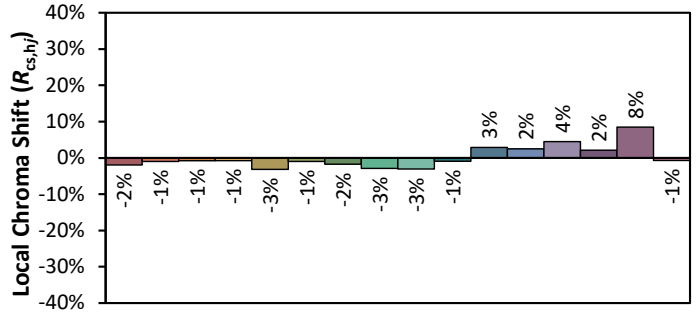
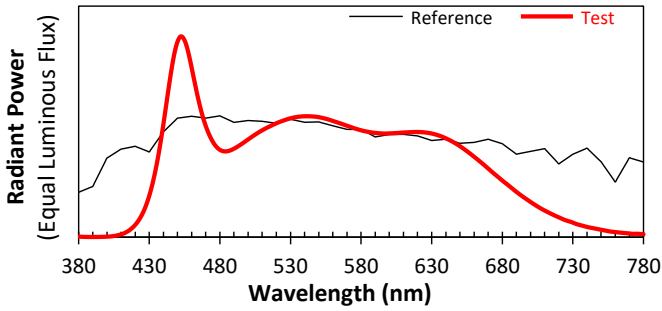
Fixture settings: DMX mode: 1; Fans: High Power Mode; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 23.11.2023

iESPRITE HCF

Photometric report

Field angle 20° - Medium zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3230
y 0.3340
 u' 0.2031
 v' 0.4725

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: 23.11.2023

ROBE

IESPRITE HCF

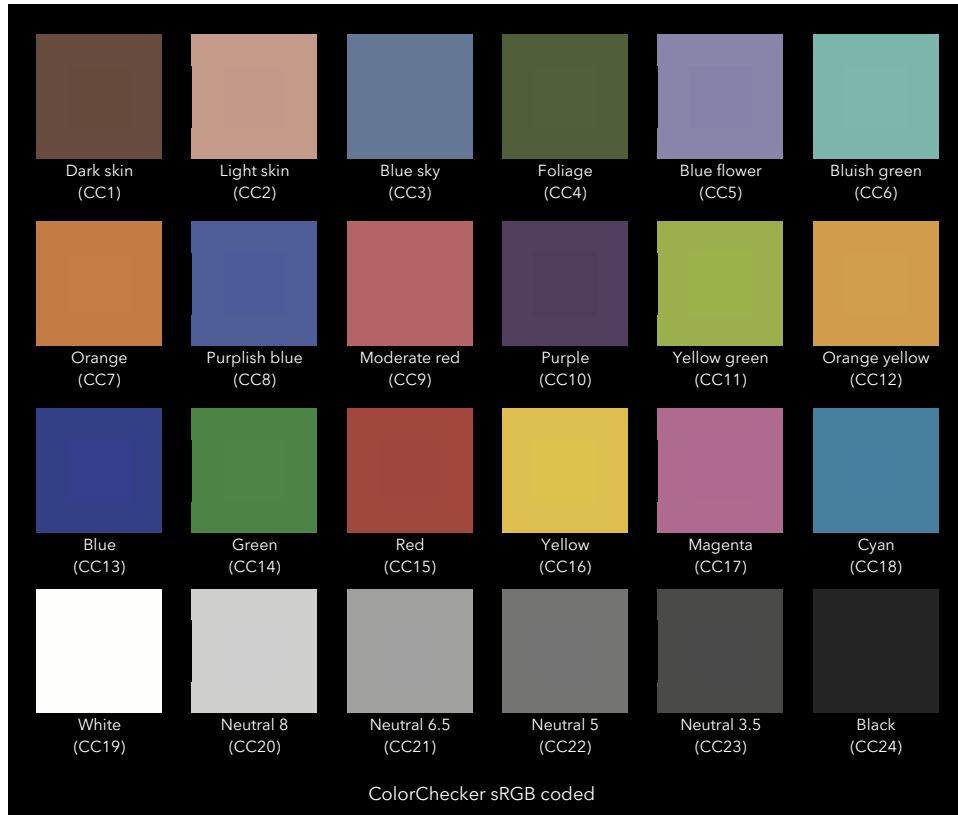
Photometric report

Field angle 20° - Medium zoom

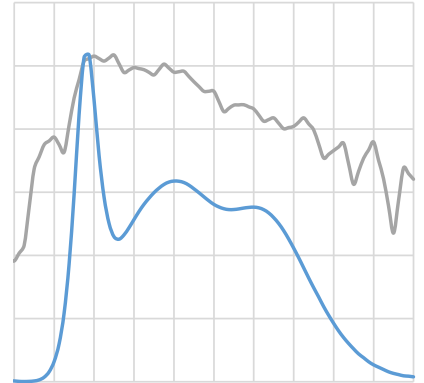
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5946 (+0.1)

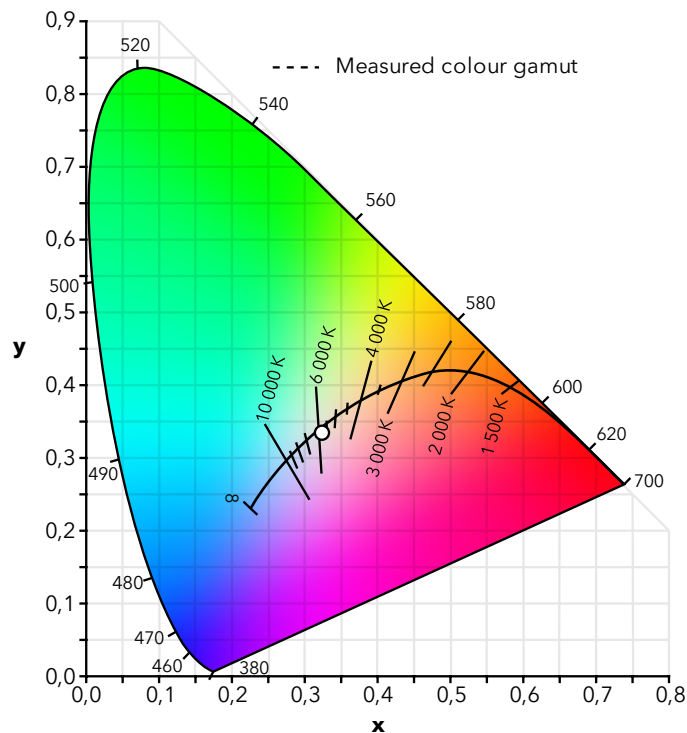
TLCI-2012: 97 (D5946)



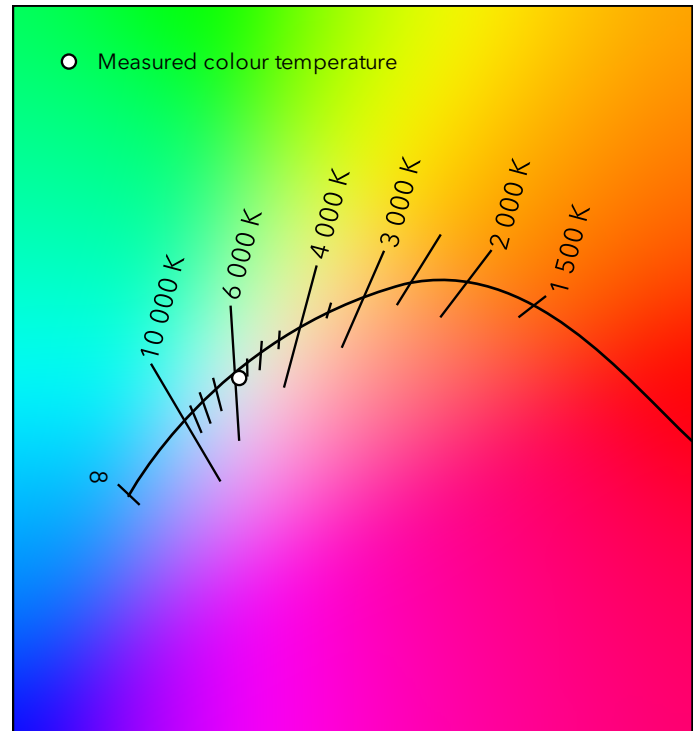
Sector	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	0
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	0
M	0	0	0
M/R	0	0	0



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: 23.11.2023