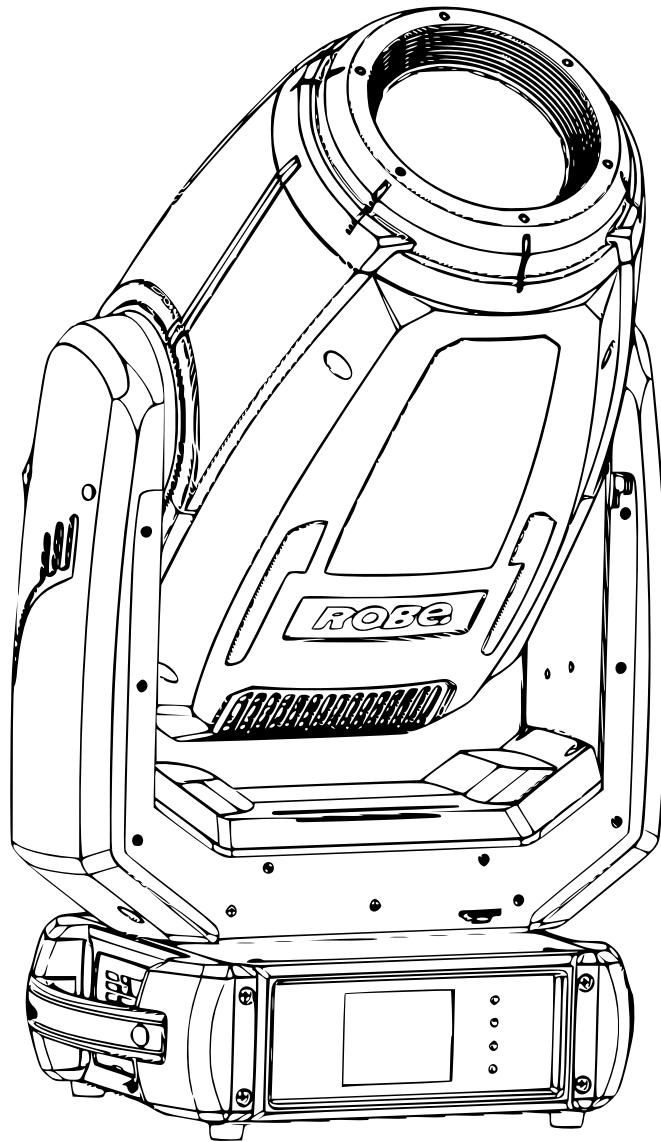


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ROBE®

PAINTE HP

Photometric report

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PAINTE HP

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

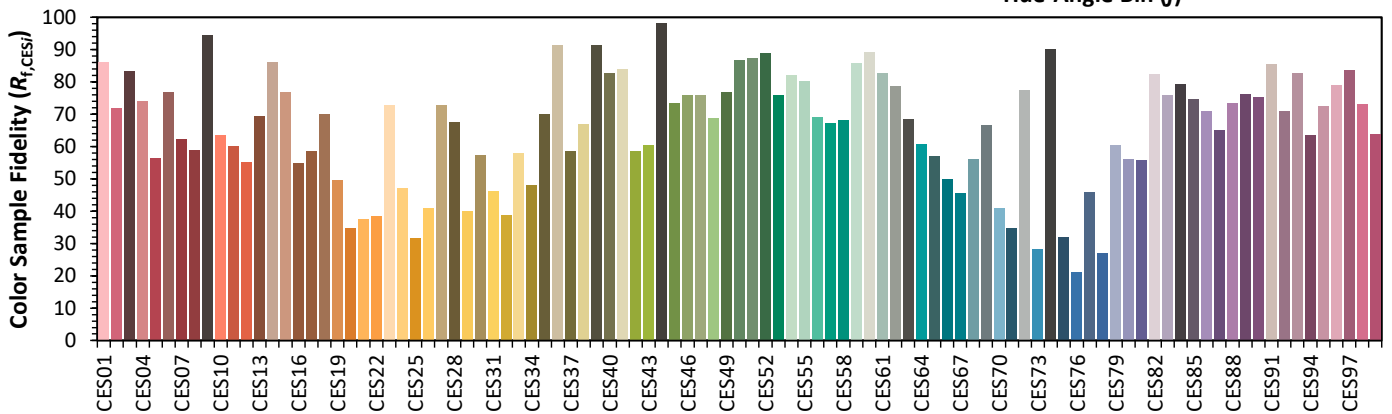
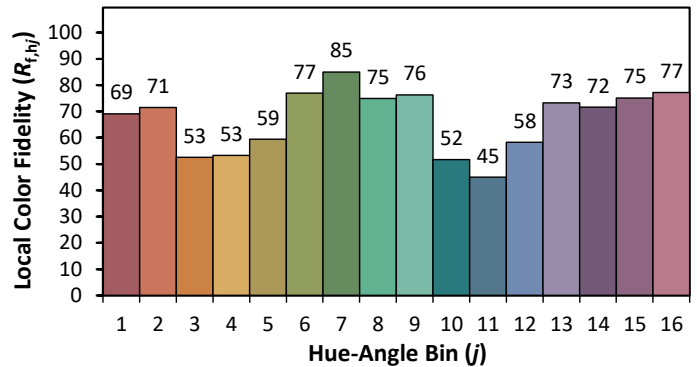
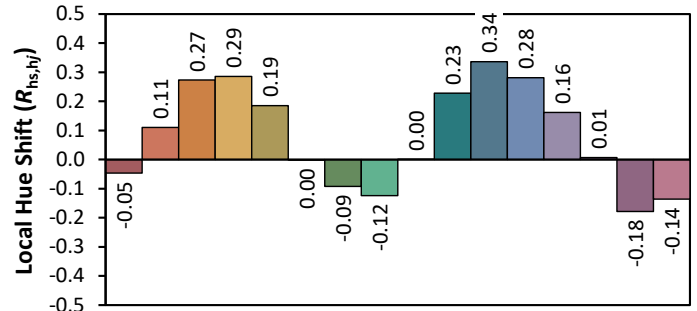
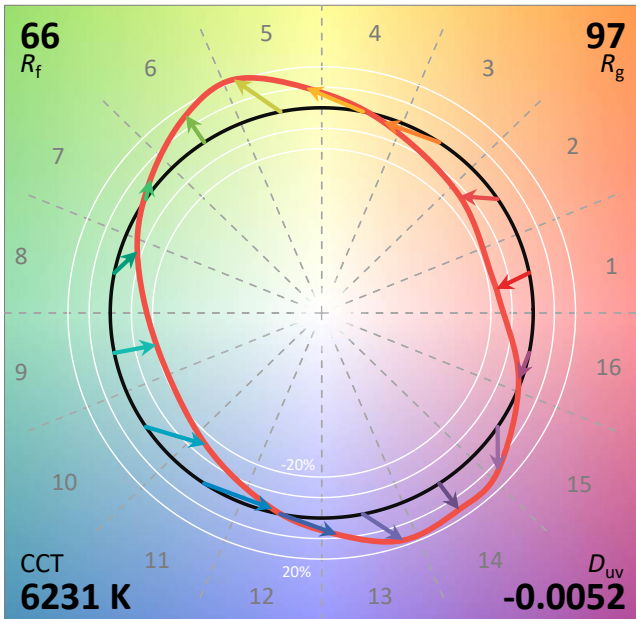
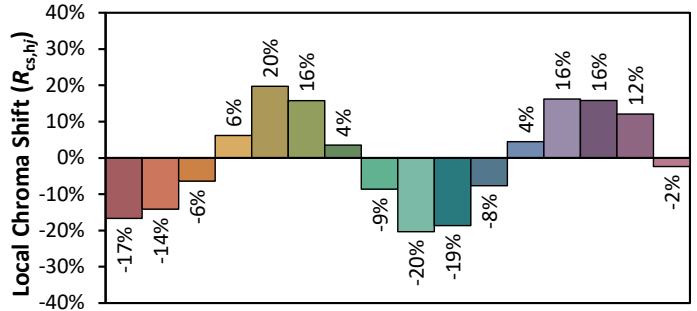
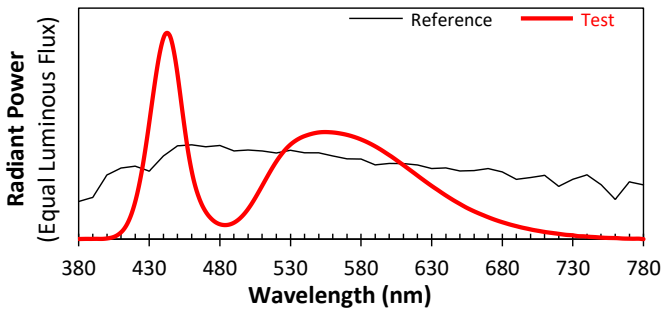
- Photometric measurement head
- UVA and UVC measurement head

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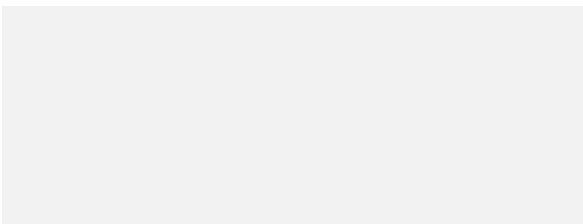
Photometric report

Beam angle 8.6° - Min. zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:



x 0.3188
y 0.3189
u' 0.2061
v' 0.4637

CIE 13.3-1995 (CRI)	
R _a	69
R _g	-18

Fixture settings: DMX mode: 1; Fans: High; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
Measurement date: 24.03.2022

PAINTE HP

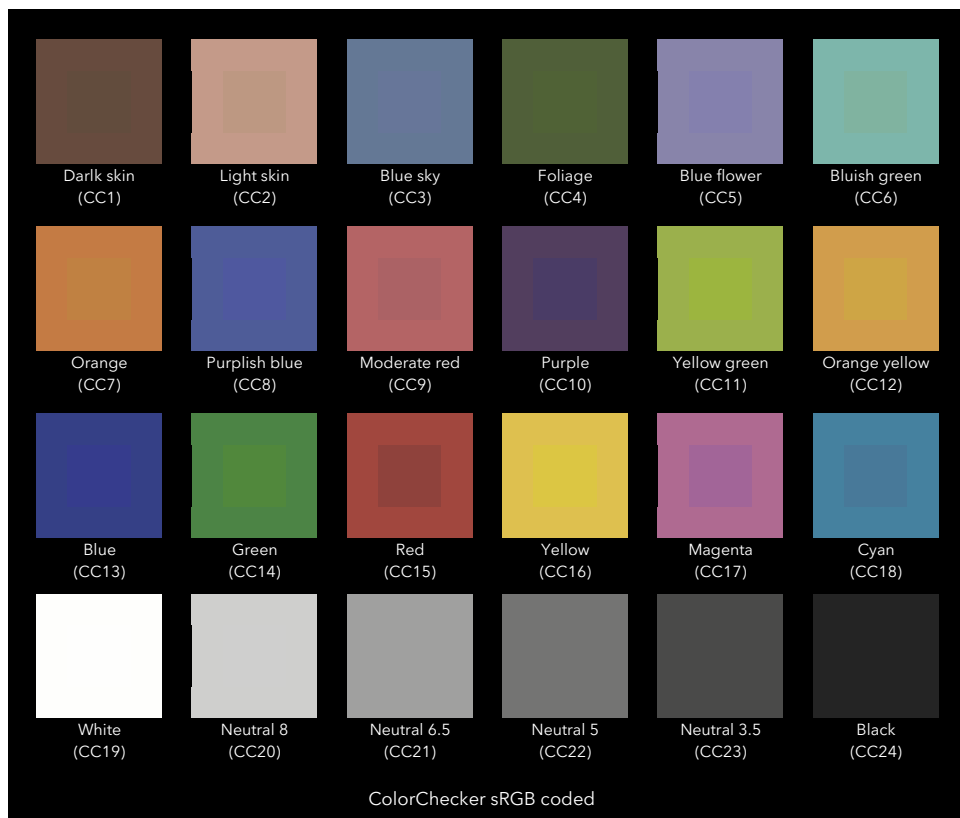
Photometric report

Beam angle 8.6° - Min. zoom

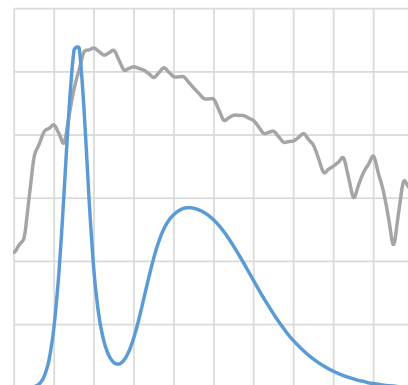
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D6231 (-1)

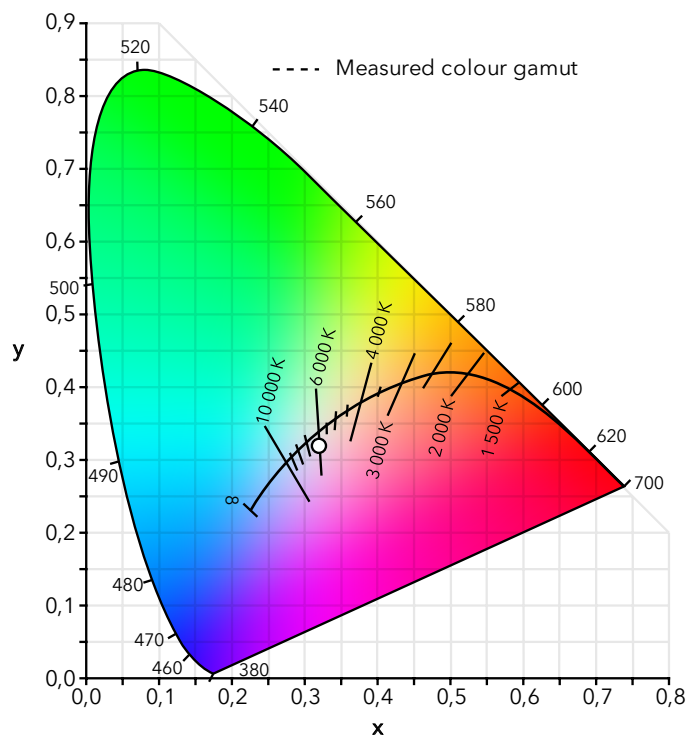
TLCI-2012: 41 (D6231)



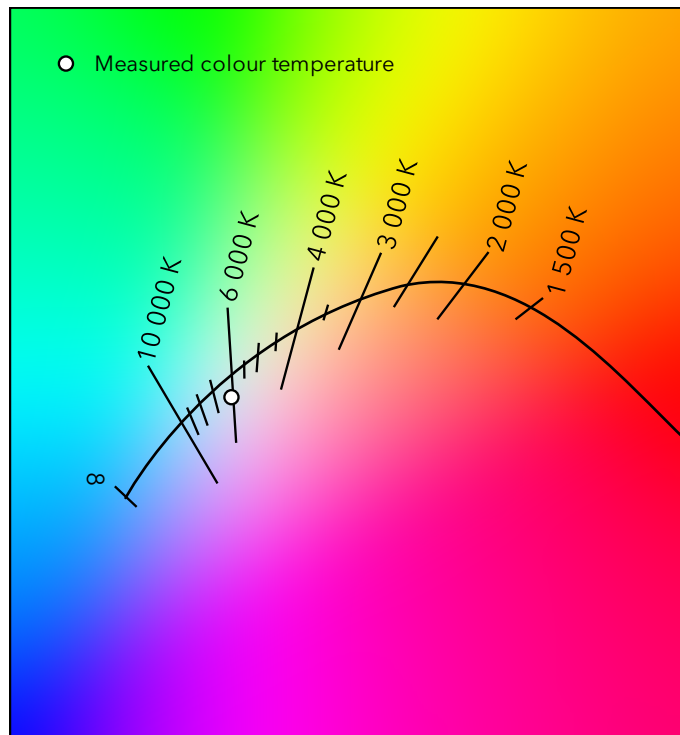
Sector	Lightness	Chroma	Hue
R	++++	+++	+
R/Y	0	+	----
Y	--	--	-----
Y/G	-	---	0
G	--	---	+++
G/C	+	0	++++++
C	+++	0	+
C/B	+++++	+	---
B	0	---	----
B/M	++	----	+++
M	++++	-	++++++
M/R	++++	-	++++++



CIE 1931 color space gamut



Colour temperature



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

Measurement date: 24.03.2022

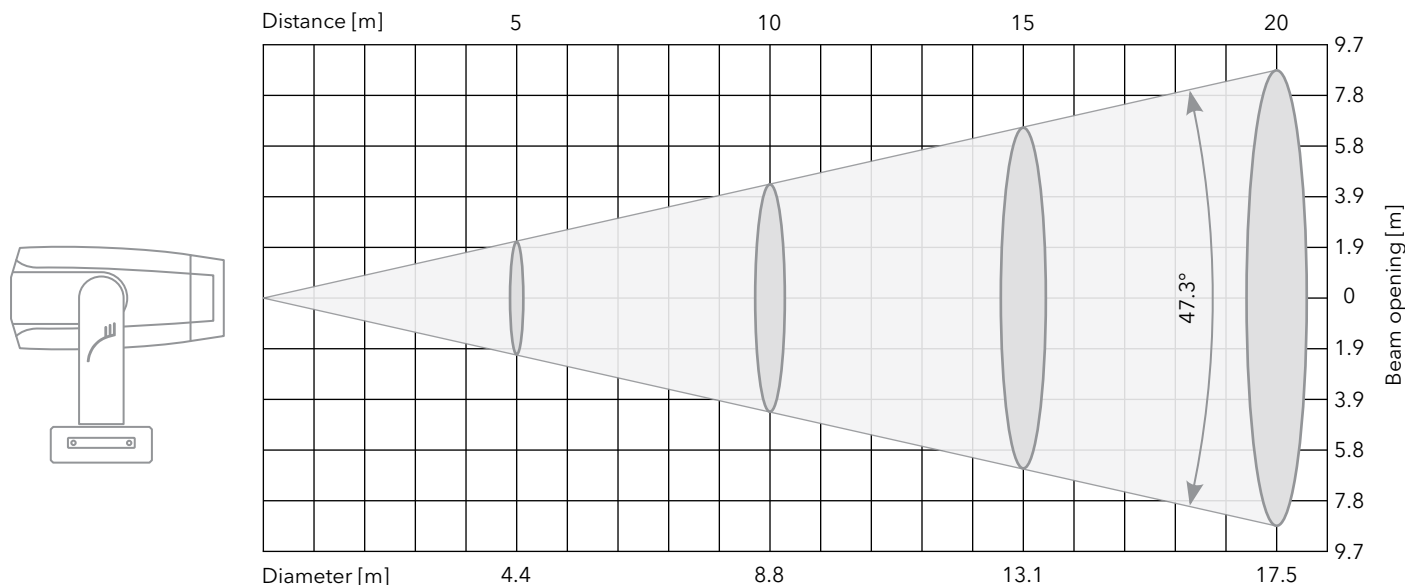


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Photometric report

Beam angle 47.3° - Max. zoom

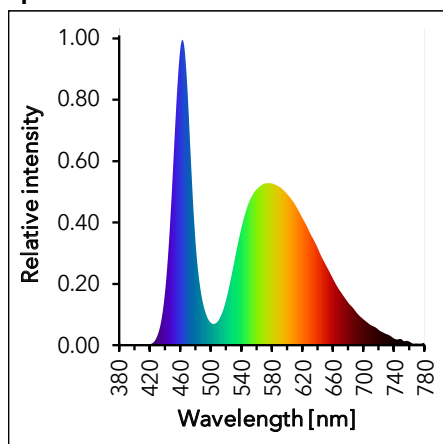
Beam angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
47.3°	12004 lm	9634 lm	21000 cd	441 W



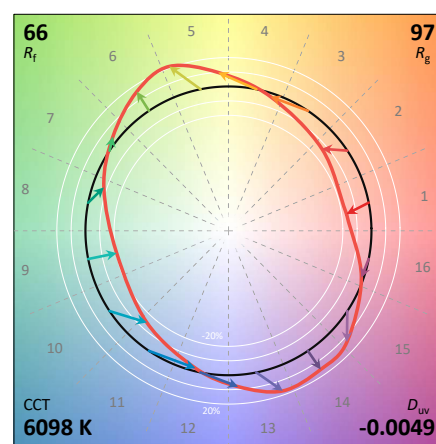
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	840/78	210/20	93/9	53/4.9	23/2.2	13/1.2	8/0.8	9634
Auto Fan Mode	805/75	201/19	89/8	50/4.7	22/2.1	13/1.2	8/0.7	9232
Quiet Fan Mode	539/50	135/13	60/6	34/3.1	15/1.4	8/0.8	5/0.5	6177

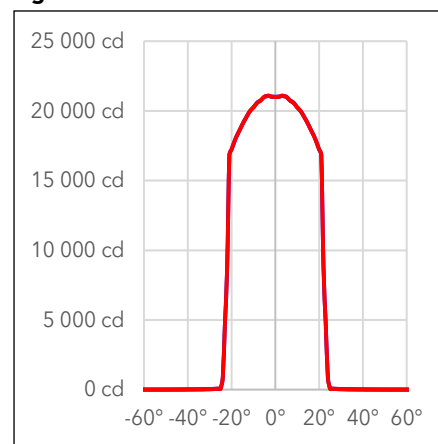
Spectrum



TM-30



Light distribution



Color temperature	CCT	6098
Color Deviation from Black	Duv	-0.0049
Color Coordinate CIE 1931	x	0.3210
	y	0.3215
Color Coordinate	u	0.2065
	v	0.3103

Color rendering index	CRI	69
Red component	CRI R9	-19
Color fidelity	TM30 Rf	66
Color gamut	TM30 Rg	97
Television consistency Index	TLCI	41

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

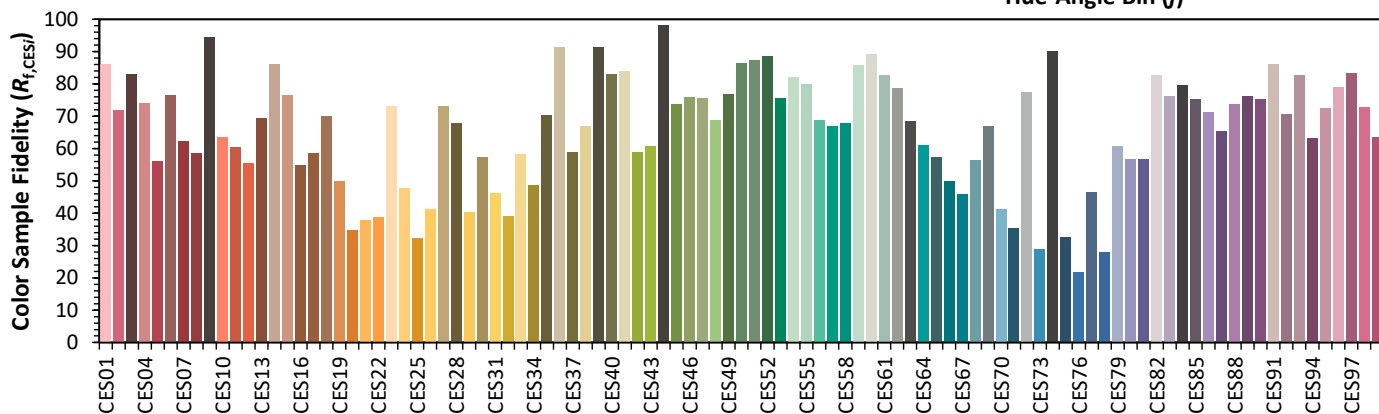
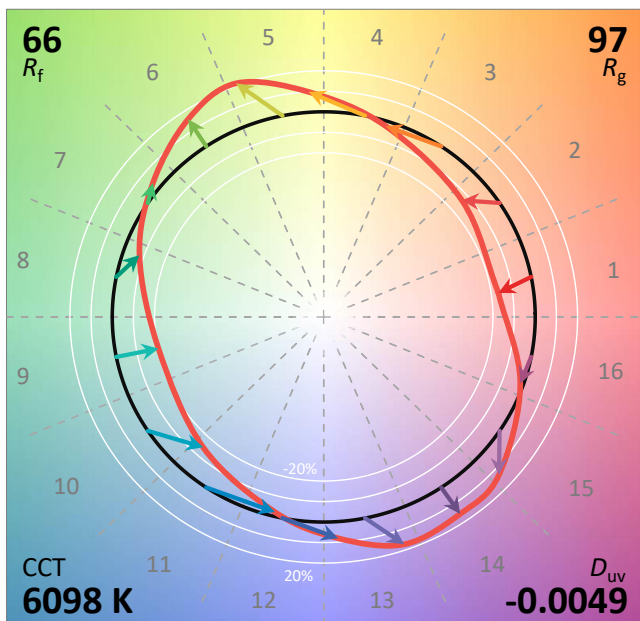
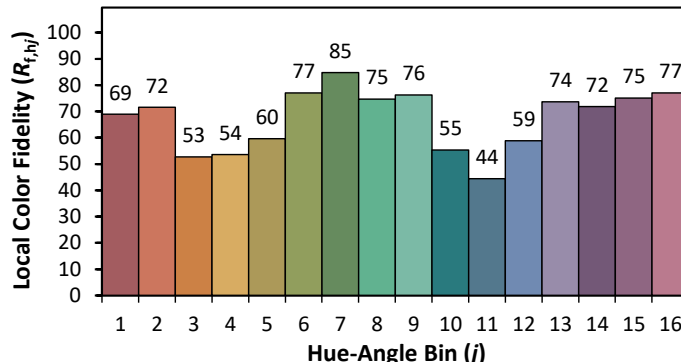
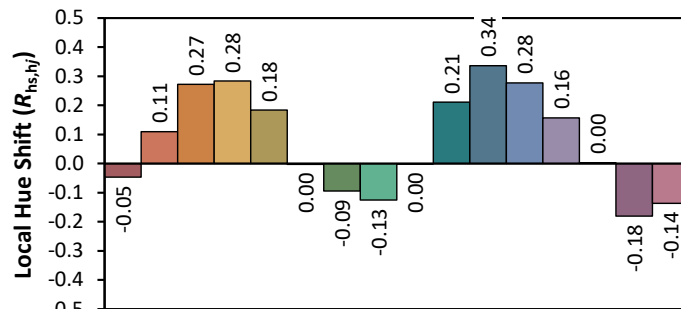
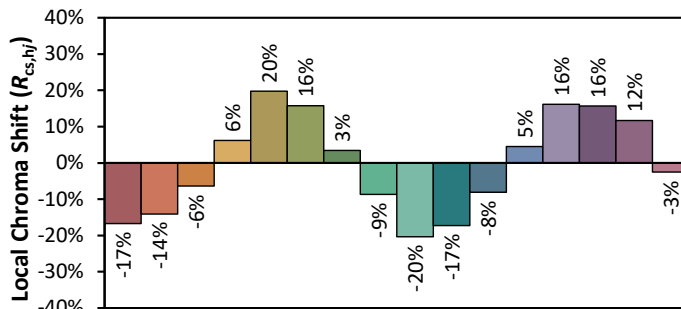
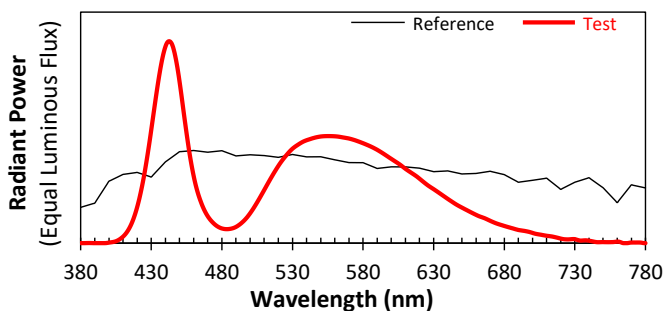
Measurement date: 24.03.2022

PAINTE HP

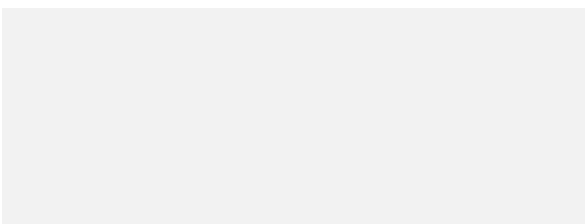
Photometric report

Beam angle 47.3° - Max. zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:



x 0.3210
 y 0.3215
 u' 0.2065
 v' 0.4655

CIE 13.3-1995 (CRI)	
R_a	69
R_g	-19

Fixture settings: DMX mode: 1; Fans: High; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
 Measurement date: 24.03.2022



PAINTE HP

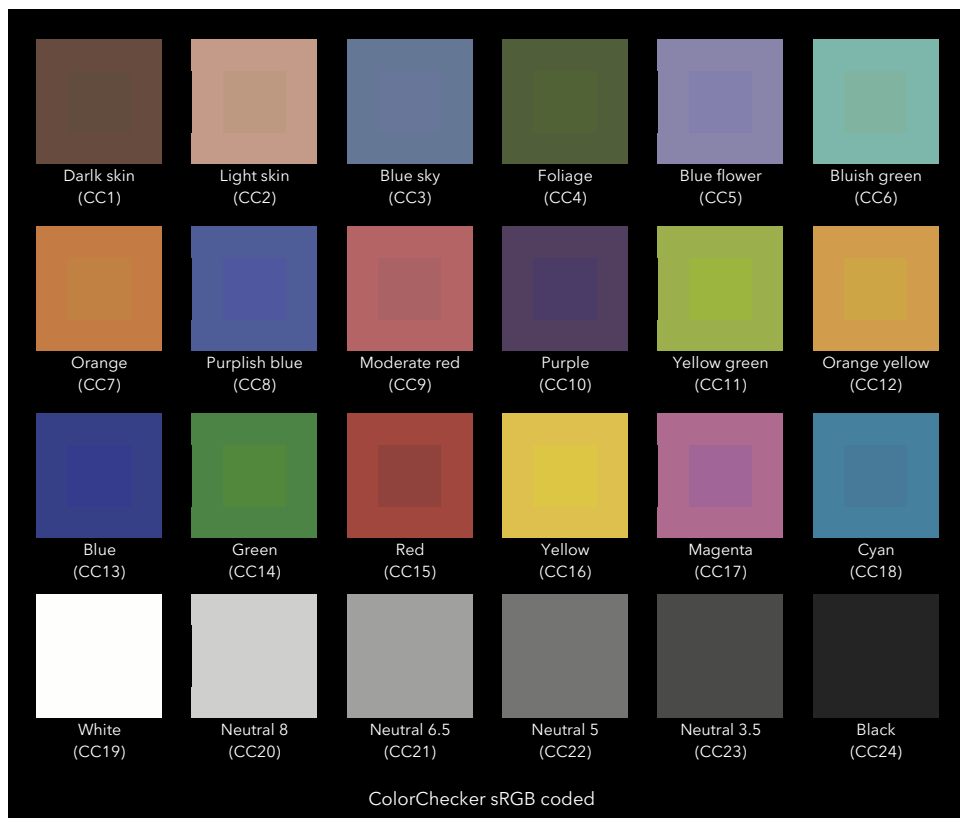
Photometric report

Beam angle 47.3° - Max. zoom

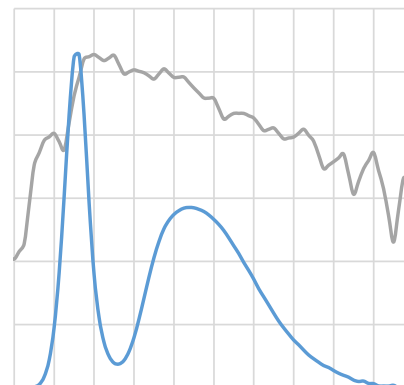
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D6098 (-0.9)

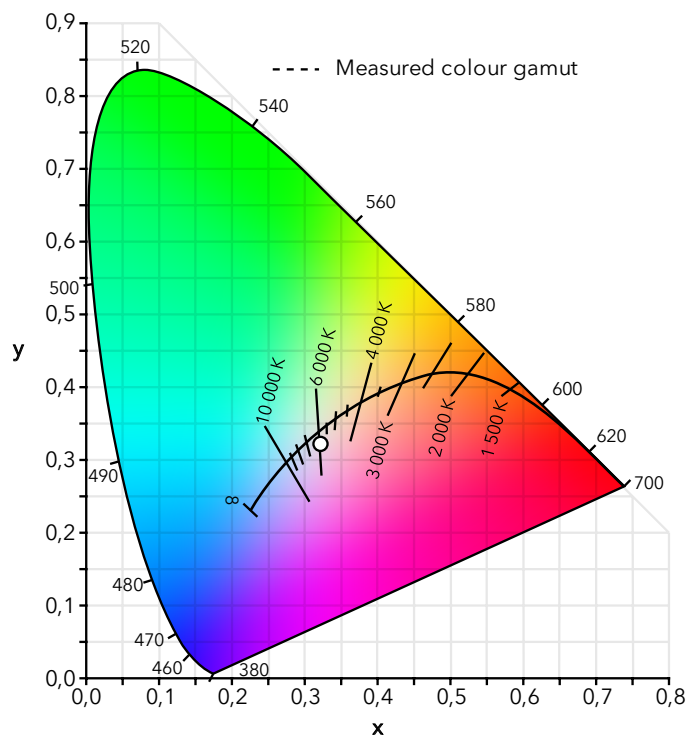
TLCI-2012: 41 (D6098)



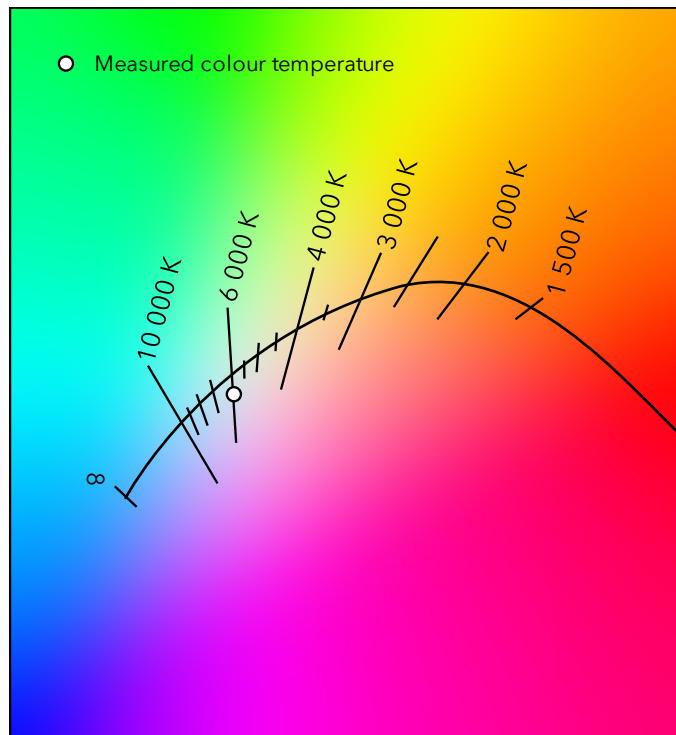
Sector	Lightness	Chroma	Hue
R	++++	+++	+
R/Y	0	+	----
Y	--	--	-----
Y/G	-	---	0
G	--	---	+++
G/C	+	0	++++++
C	+++	0	+
C/B	+++++	+	---
B	0	---	----
B/M	++	----	+++
M	++++	-	++++++
M/R	++++	-	++++++



CIE 1931 color space gamut



Colour temperature



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

Measurement date: 24.03.2022

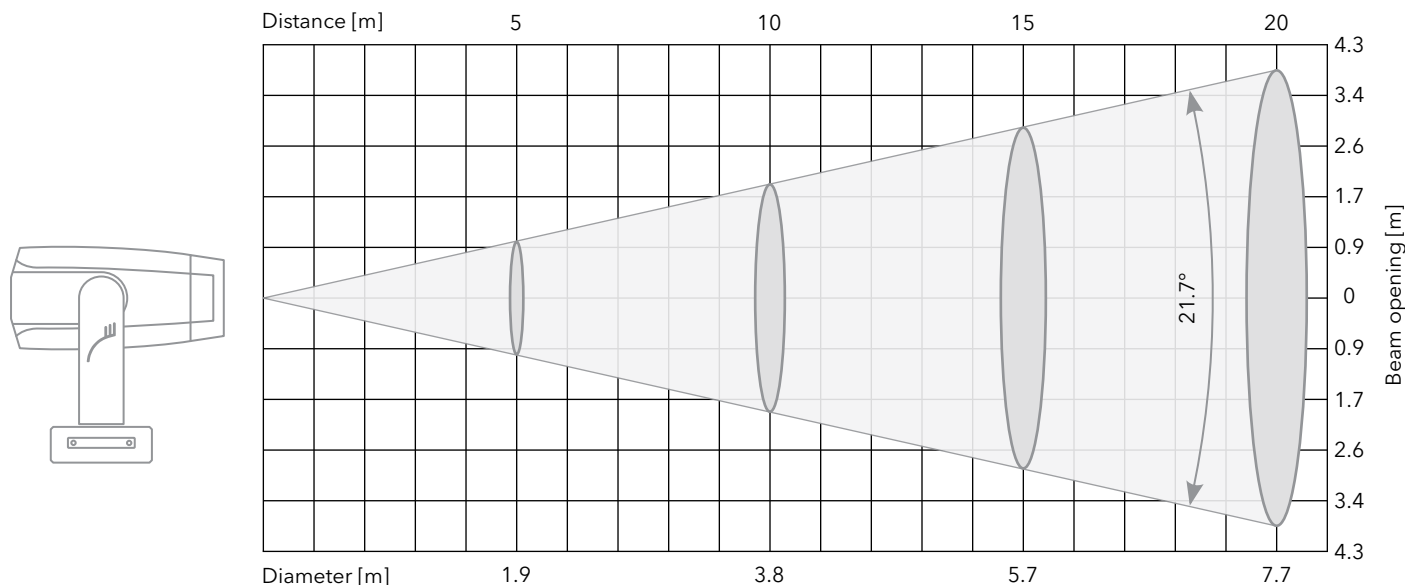


PAINTE HP

Photometric report

Beam angle 21.7° - Medium zoom

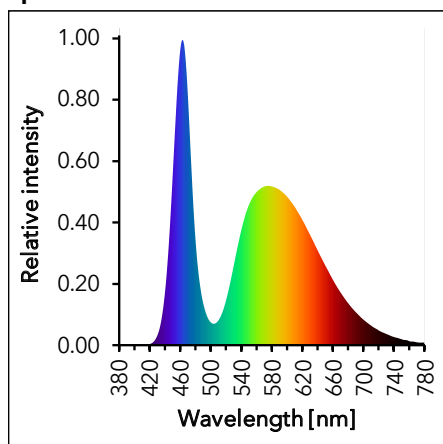
Beam angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
21.7°	10973 lm	8710 lm	86625 cd	441 W



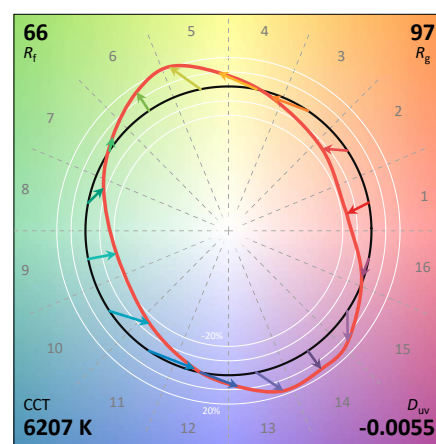
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	3465/322	866/80	385/36	217/20	96/9	54/5	35/3.2	8710
Auto Fan Mode	3320/308	830/77	369/34	208/19	92/9	52/4.8	33/3.1	8346
Quiet Fan Mode	2221/206	555/52	247/23	139/13	62/6	35/3.2	22/2.1	5584

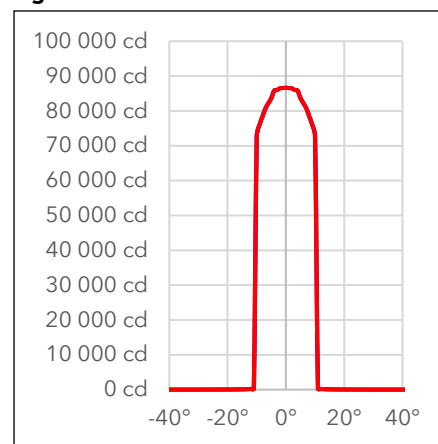
Spectrum



TM-30



Light distribution



Color temperature	CCT	6207
Color Deviation from Black	Duv	-0.0055
Color Coordinate CIE 1931	x	0.3193
	y	0.3188
Color Coordinate	u	0.2064
	v	0.3091

Color rendering index	CRI	69
Red component	CRI R9	-16
Color fidelity	TM30 Rf	66
Color gamut	TM30 Rg	97
Television consistency Index	TLCI	42

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

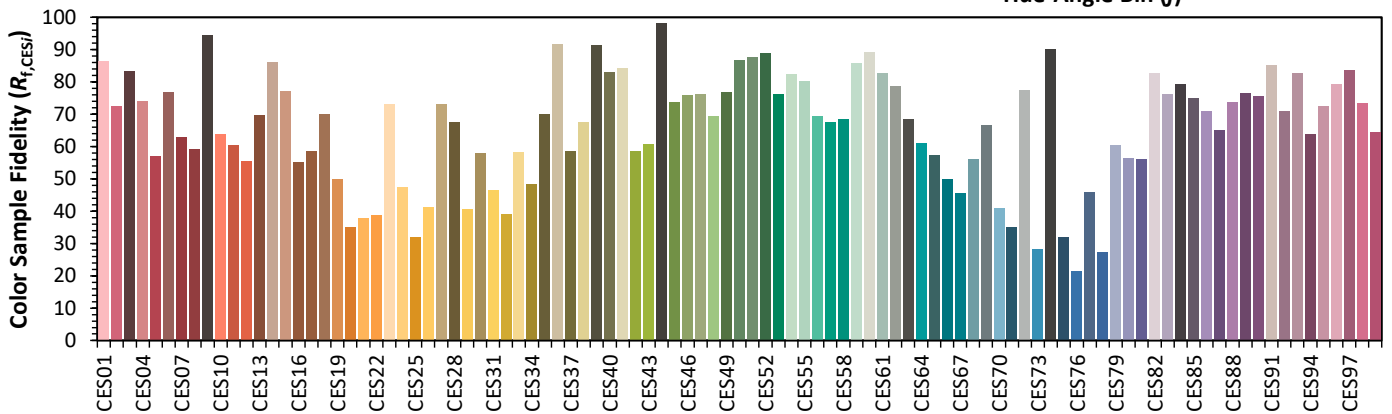
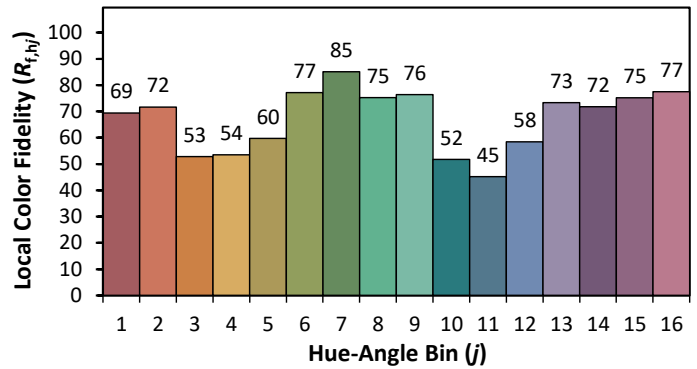
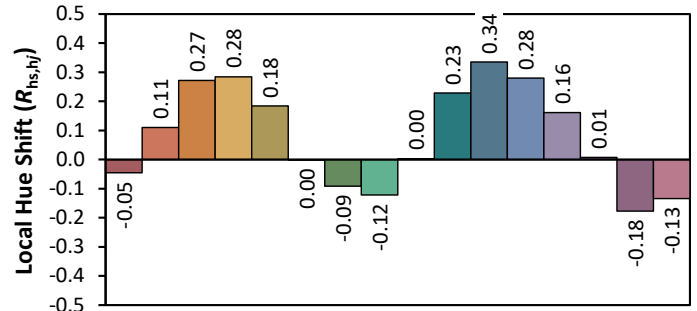
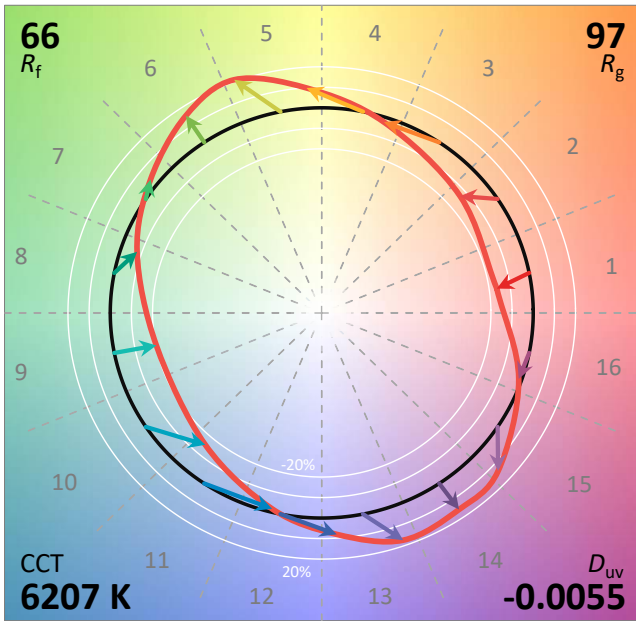
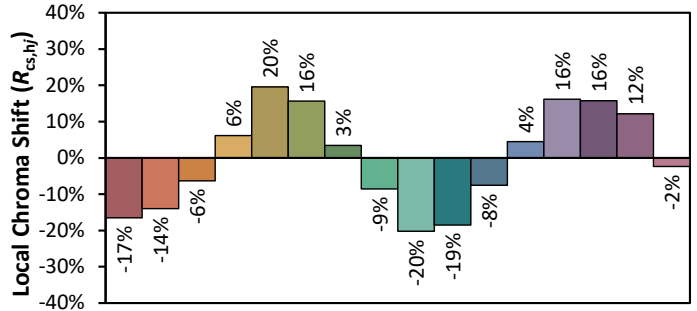
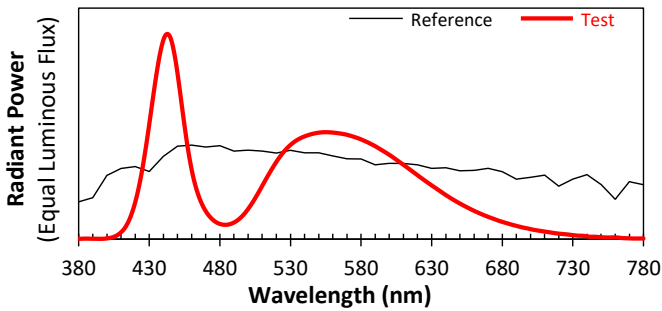
Measurement date: 24.03.2022

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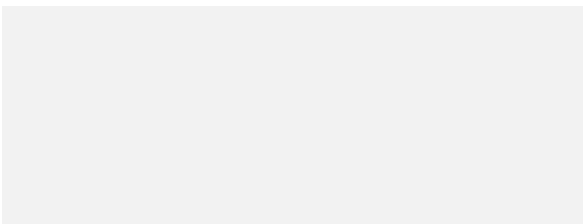
Photometric report

Beam angle 21.7° - Medium zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:



x 0.3193
 y 0.3188
 u' 0.2064
 v' 0.4637

CIE 13.3-1995 (CRI)	
R_a	69
R_g	-16

Fixture settings: DMX mode: 1; Fans: High; Dimmer curve: Square Law; Shutter: Open; Dimmer: Open; No effect in light beam
 Measurement date: 24.03.2022

PAINTE HP

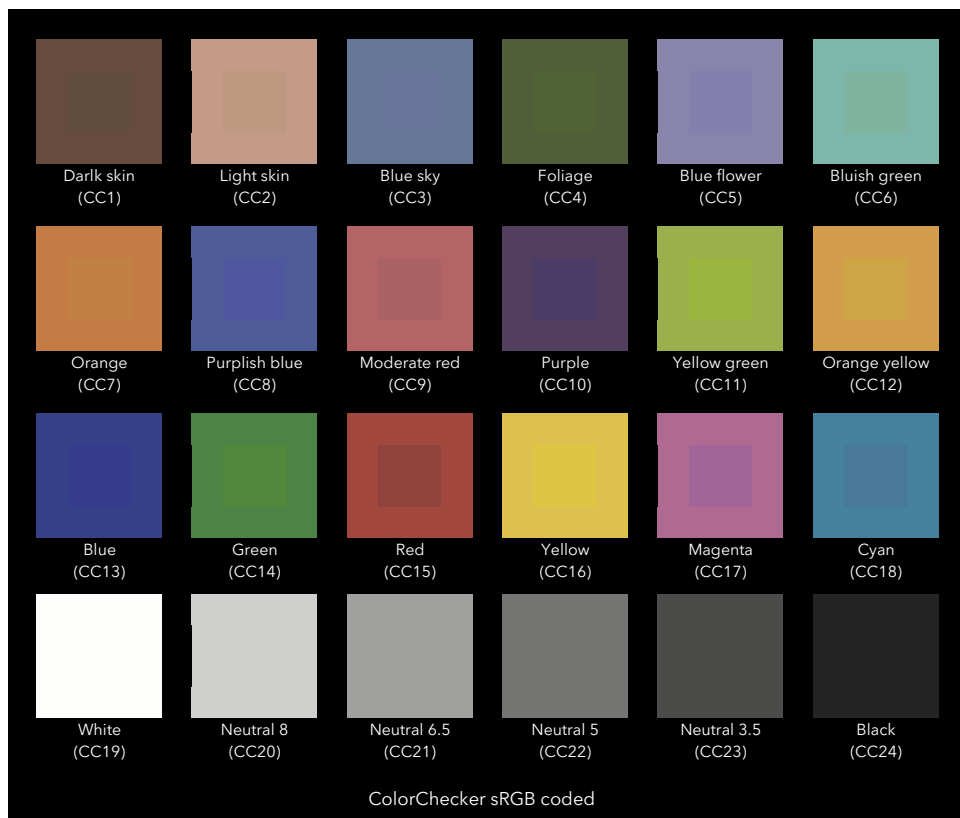
Photometric report

Beam angle 21.7° - Medium zoom

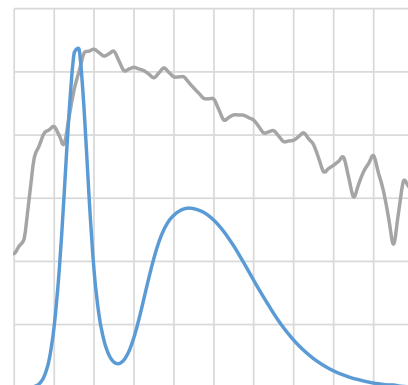
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D6207 (-1)

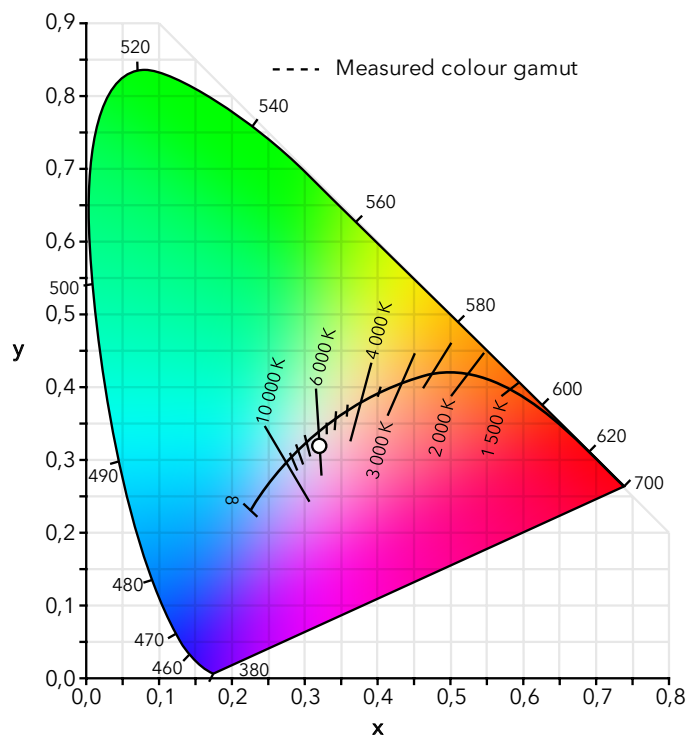
TLCI-2012: 42 (D6207)



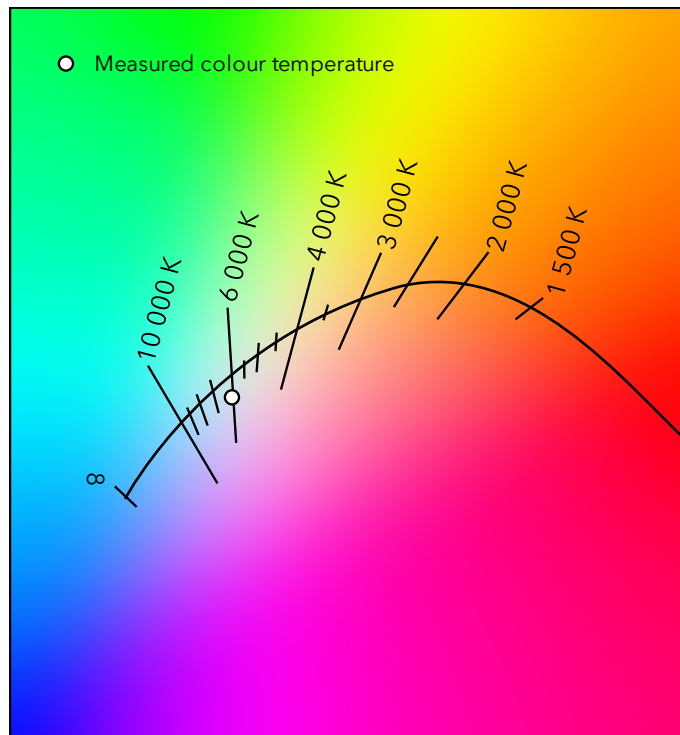
Sector	Lightness	Chroma	Hue
R	++++	+++	+
R/Y	0	+	----
Y	--	--	-----
Y/G	-	---	0
G	--	---	+++
G/C	+	0	++++++
C	+++	0	+
C/B	+++++	+	---
B	0	---	----
B/M	++	----	+++
M	++++	-	++++++
M/R	++++	-	++++++



CIE 1931 color space gamut



Colour temperature



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

Measurement date: 24.03.2022

