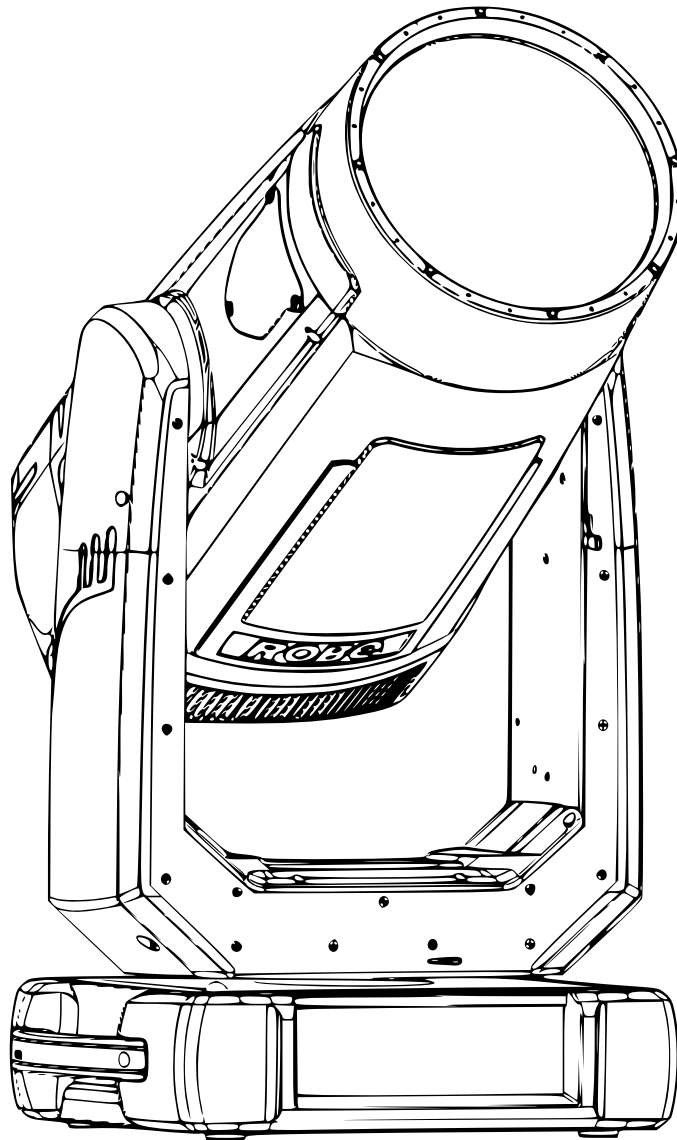


iFORTE[®] LTX



ROBE[®] 

iForte LTX WB HCF

Photometric report

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iForte LTX WB 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

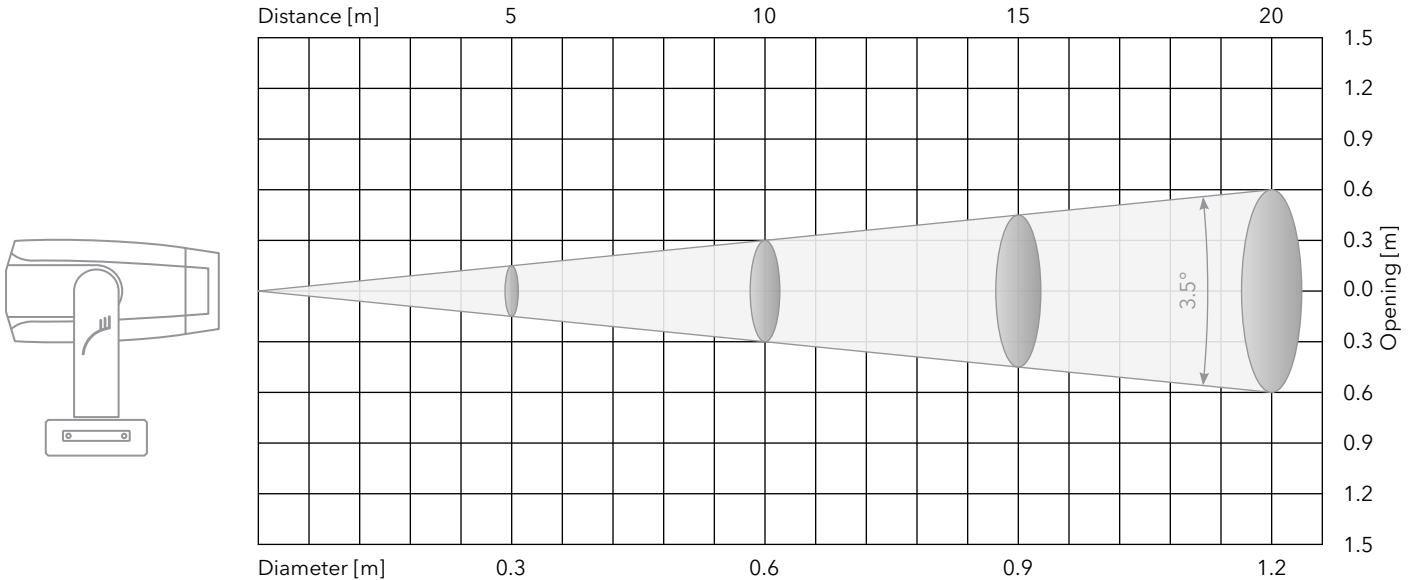
- Photometric measurement head
- UVA and UVC measurement head

iForte LTX WB HCF

Photometric report

Beam angle 3.5° - Min. zoom

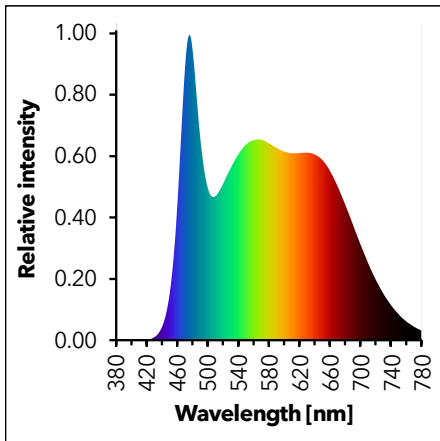
Beam angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
3.5°	15851 lm	15096 lm	5759900 cd	1080 W



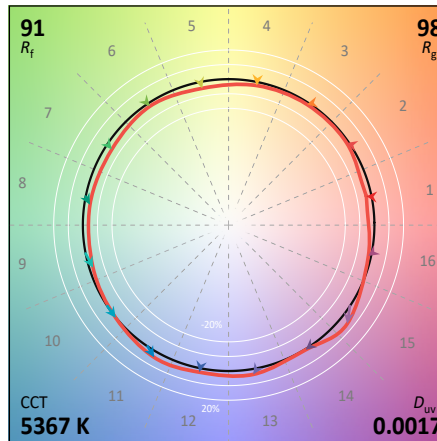
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	230396/21404	57599/5351	25600/2378	14400/1338	6400/595	3600/334	2304/214	15096
Auto Fan Mode	228710/21248	57178/5312	25412/2361	14294/1328	6353/590	3574/332	2287/212	14986
Quiet Fan Mode	146964/13653	36741/3413	16329/1517	9185/853	4082/379	2296/213	1470/137	9629

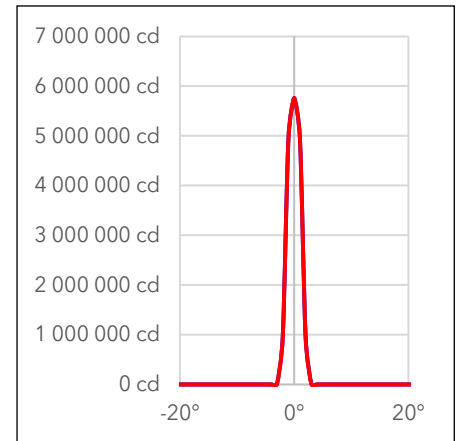
Spectrum



TM-30



Light distribution



Color temperature	CCT	5367 K
Color Deviation from Black	Duv	0.0017
Color Coordinate CIE 1931	x	0.3356
	y	0.3471
Color Coordinate	u	0.2067
	v	0.3207

Color rendering index	CRI	95
Red component	CRI R9	80
Color fidelity	TM30 Rf	91
Color gamut	TM30 Rg	98
Television consistency Index	TLCI	96

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

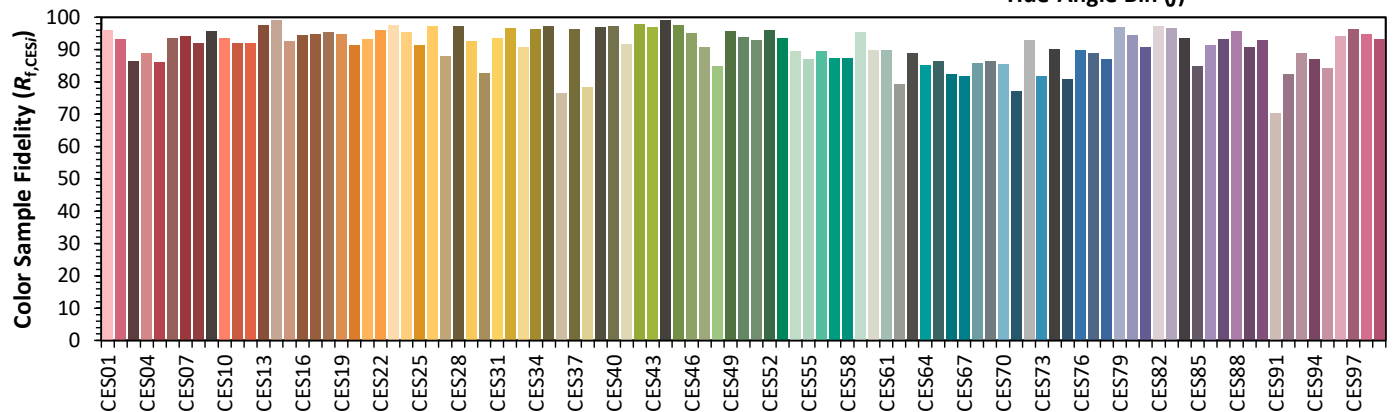
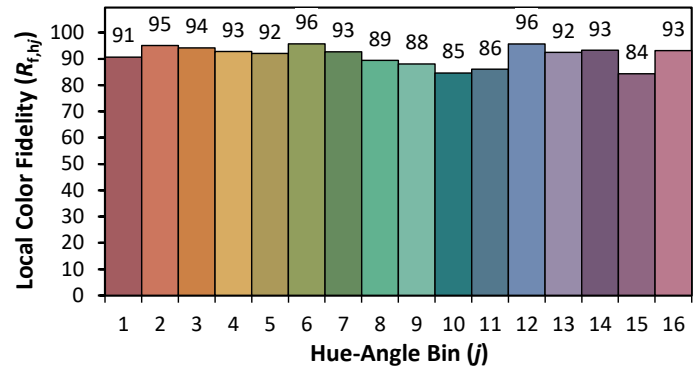
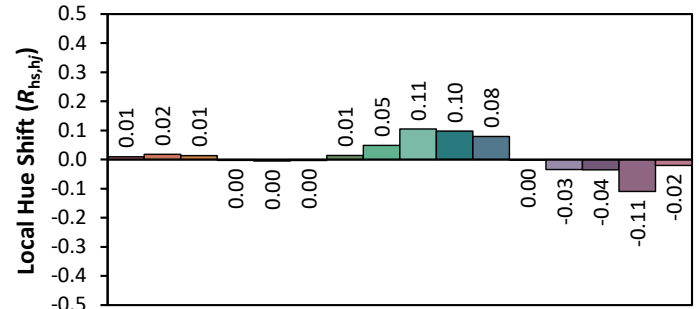
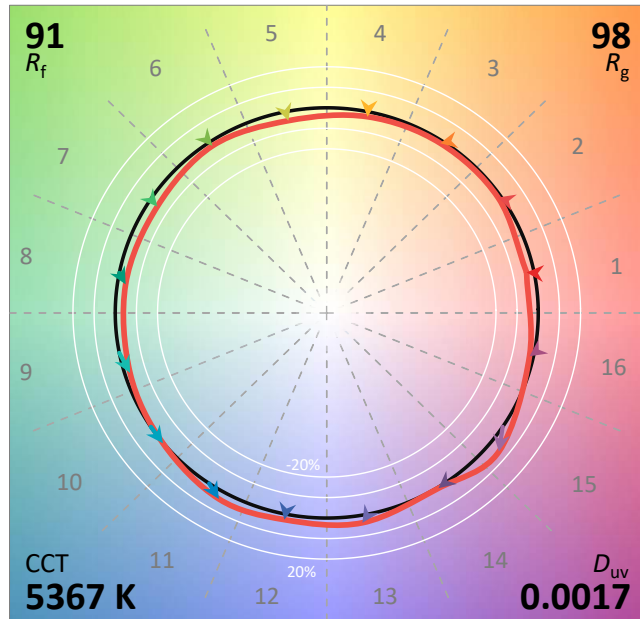
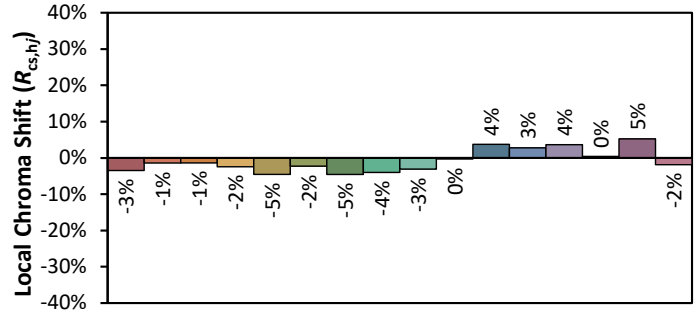
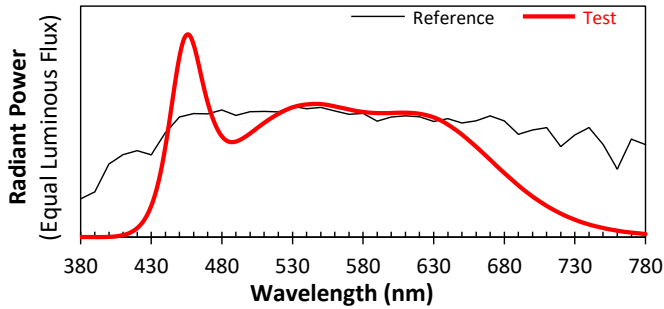
Measurement date: 10.05.2024

iForte LTX WB HCF

Photometric report

Beam angle 3.5° - Min. zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3356
y 0.3471
 u' 0.2067
 v' 0.4810

CIE 13.3-1995
(CRI)

R_a 95

R_g 80

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

Measurement date: 10.05.2024

ROBE

iForte LTX WB HCF

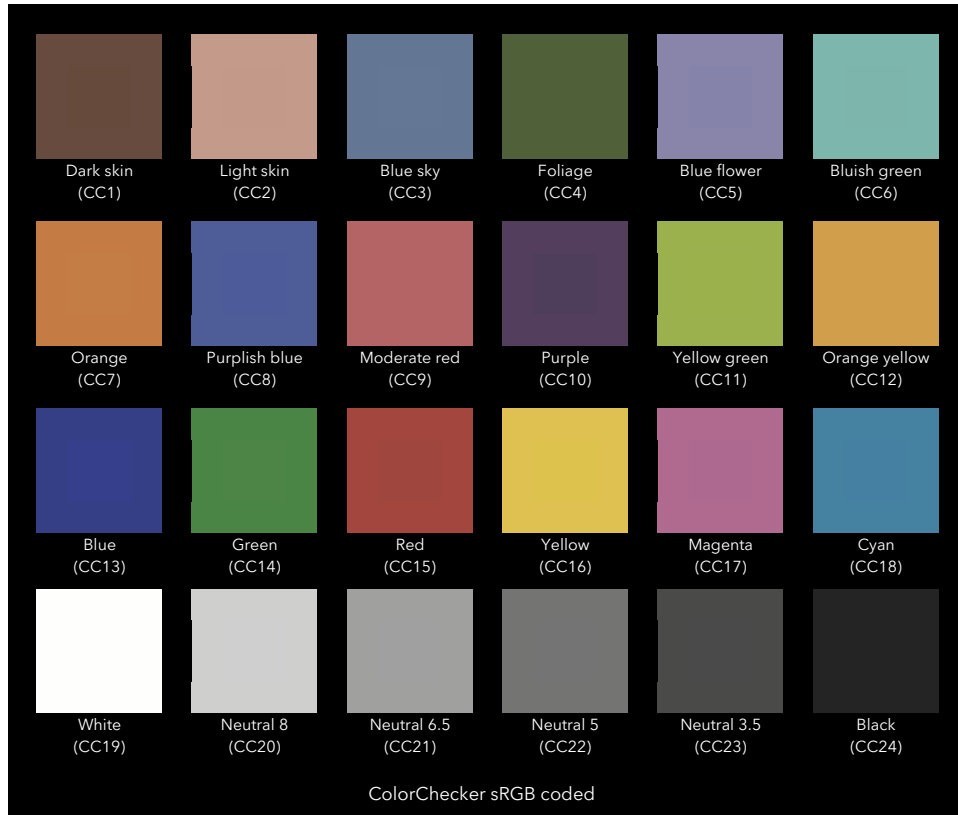
Photometric report

Beam angle 3.5° - Min. zoom

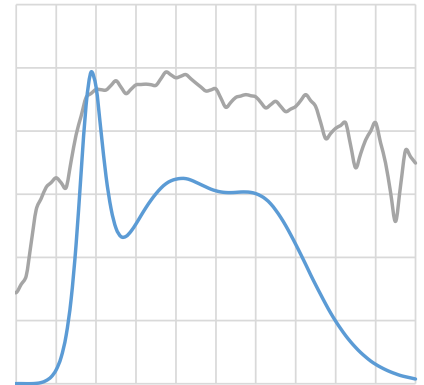
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5367 (+0.3)

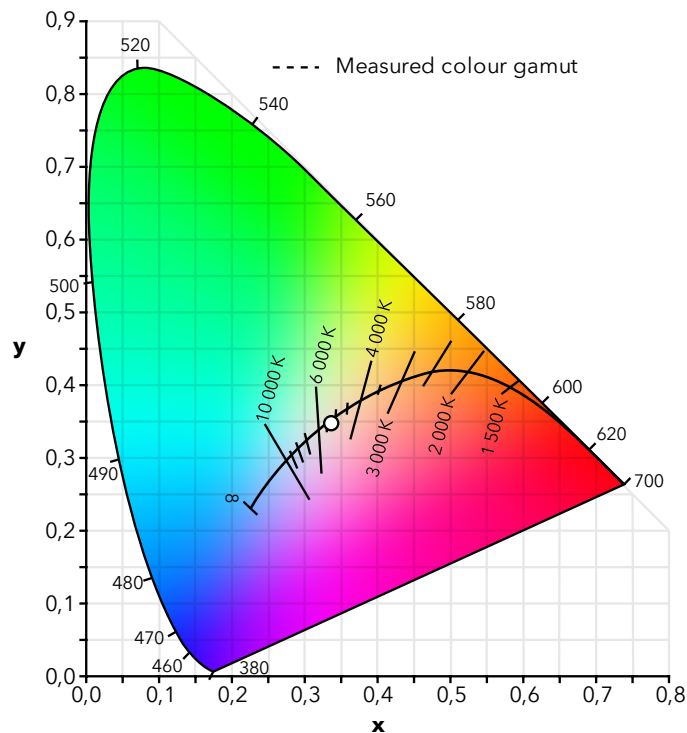
TLCI-2012: 96 (D5367)



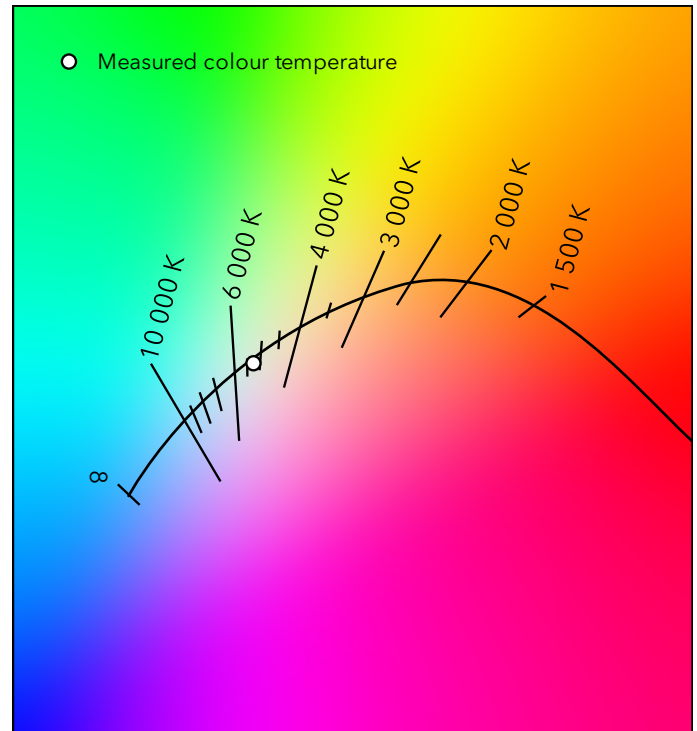
Sector	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	-
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	+
M	+	+	+
M/R	+	0	0



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: 10.05.2024

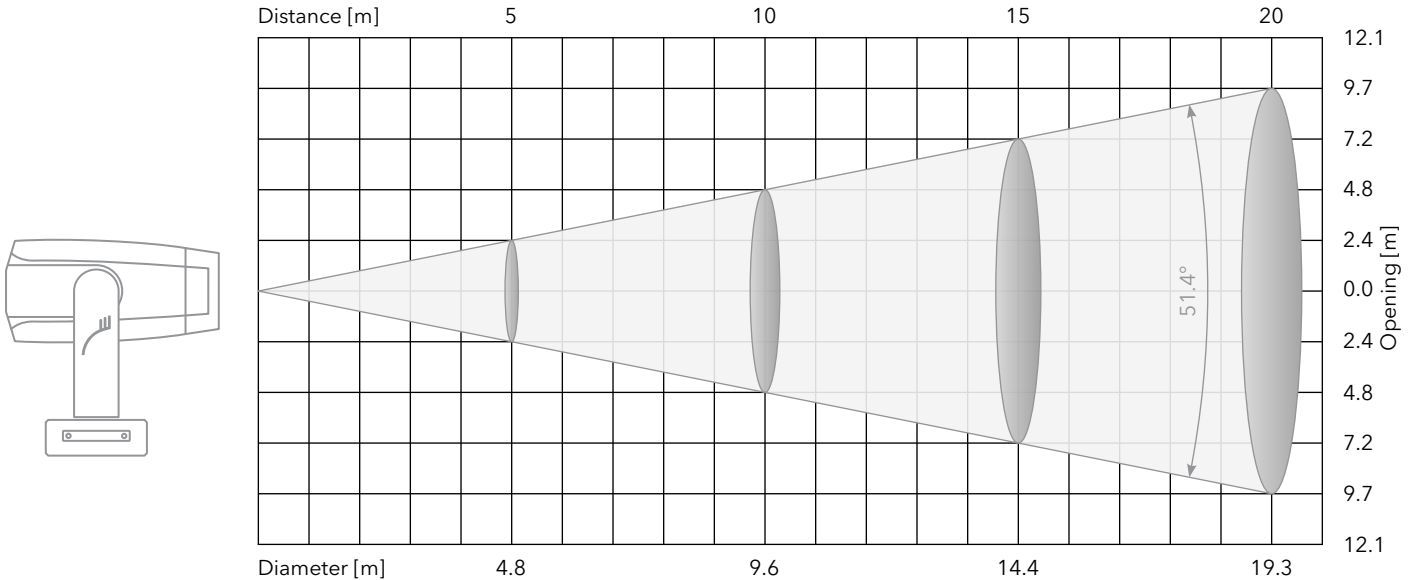
ROBE

iForte LTX WB HCF

Photometric report

Field angle 51.4° - Max. zoom

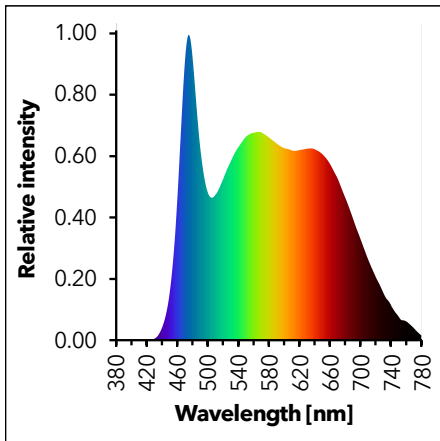
Field angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
51.4°	36424 lm	29139 lm	63450 cd	1182 W



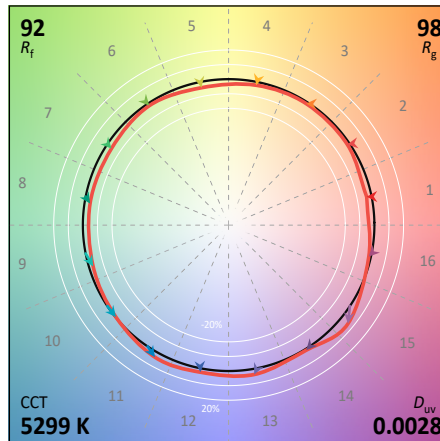
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	2538/236	635/59	282/26	159/15	71/7	40/3.7	25/2.4	29139
Auto Fan Mode	2519/234	630/59	280/26	157/15	70/7	39/3.7	25/2.3	28926
Quiet Fan Mode	1619/150	405/38	180/17	101/9	45/4.2	25/2.4	16/1.5	18588

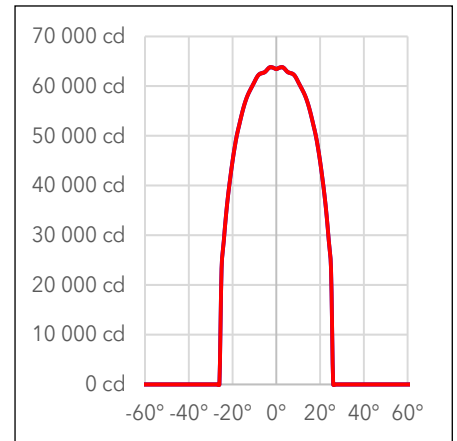
Spectrum



TM-30



Light distribution



Color temperature	CCT	5299 K
Color Deviation from Black	Duv	0.0028
Color Coordinate CIE 1931	x	0.3374
	y	0.3508
Color Coordinate	u	0.2065
	v	0.3221

Color rendering index	CRI	95
Red component	CRI R9	79
Color fidelity	TM30 Rf	92
Color gamut	TM30 Rg	98
Television consistency Index	TLCI	96

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

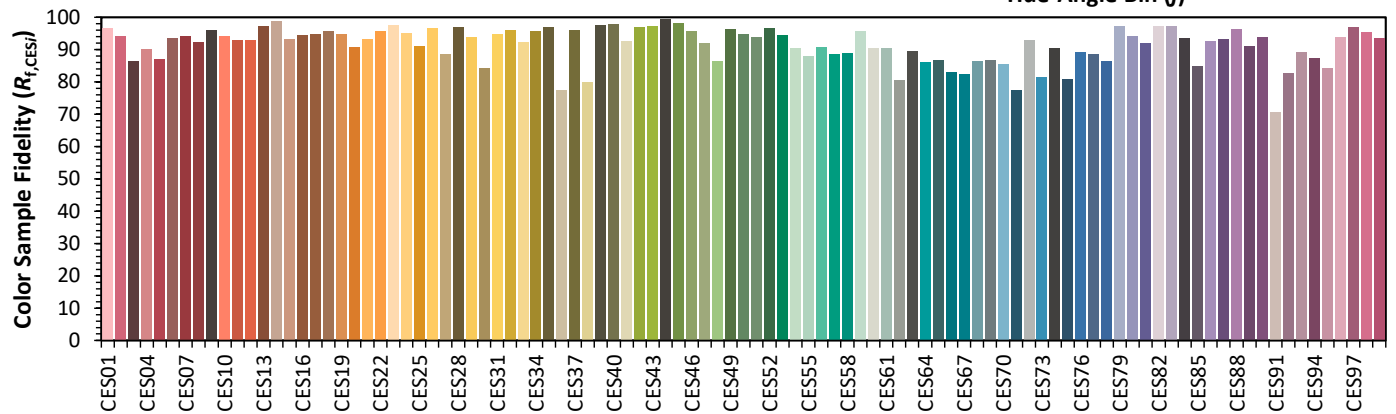
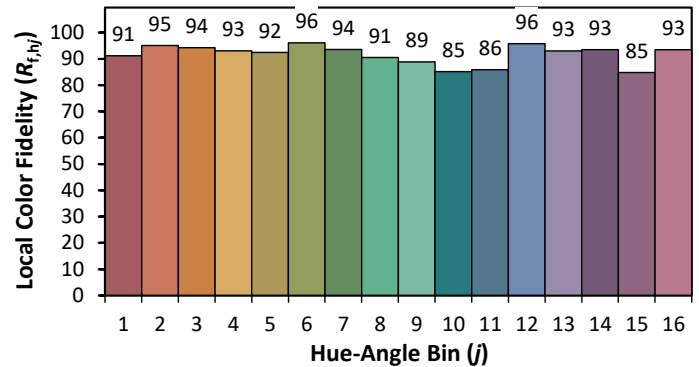
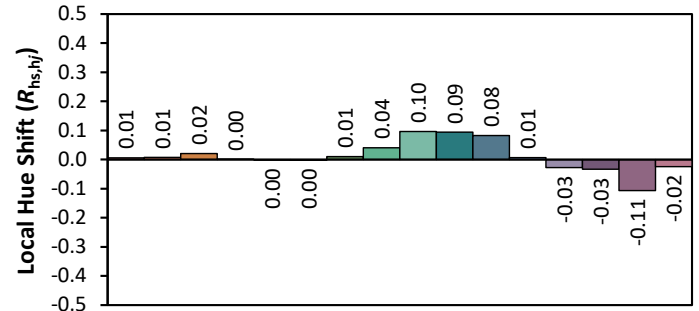
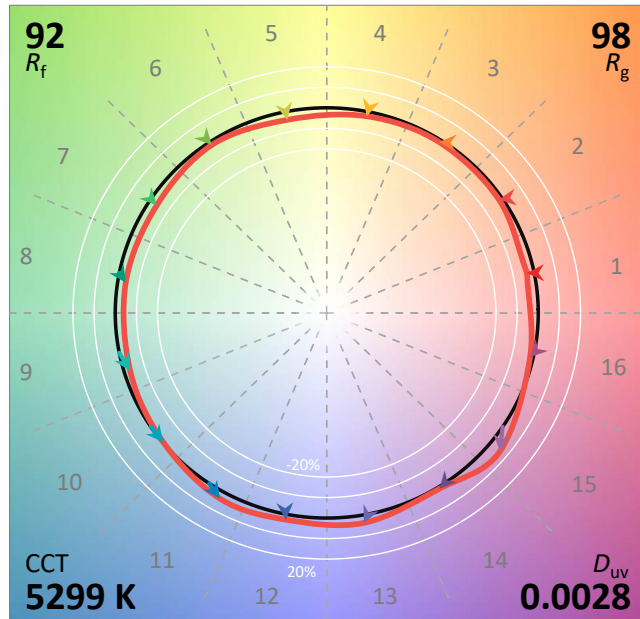
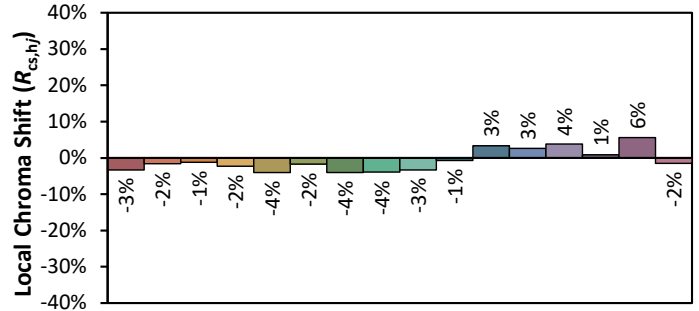
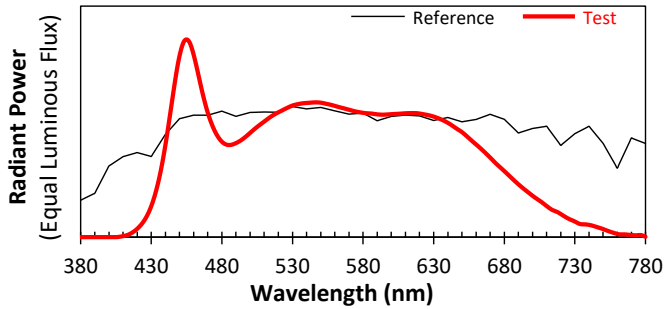
Measurement date: 10.05.2024

iForte LTX WB HCF

Photometric report

Field angle 51.4° - Max. zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3374
y 0.3508
 u' 0.2065
 v' 0.4831

CIE 13.3-1995
(CRI)

R_a 95

R_g 79

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

Measurement date: 10.05.2024

ROBE

iForte LTX WB HCF

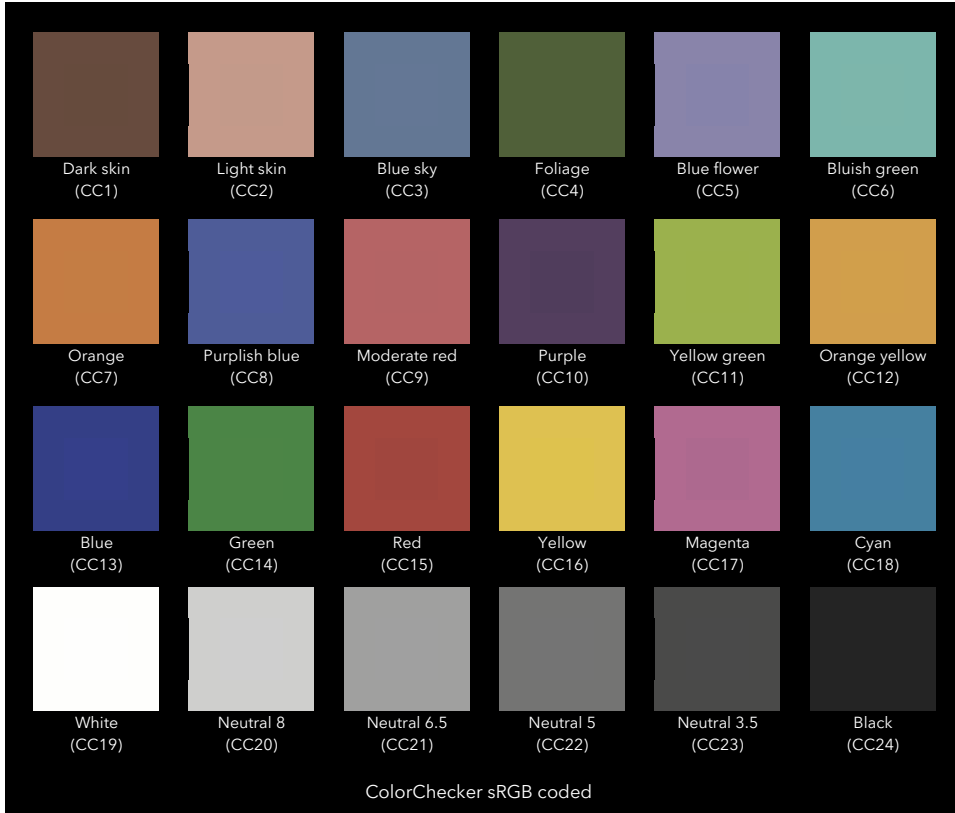
Photometric report

Field angle 51.4° - Max. zoom

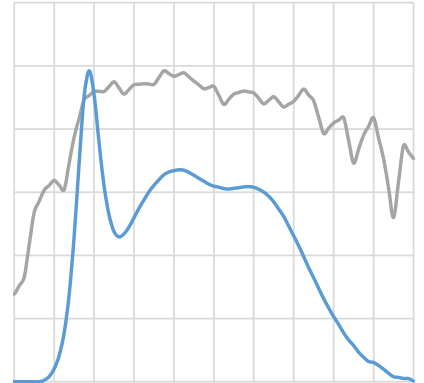
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5299 (+0.5)

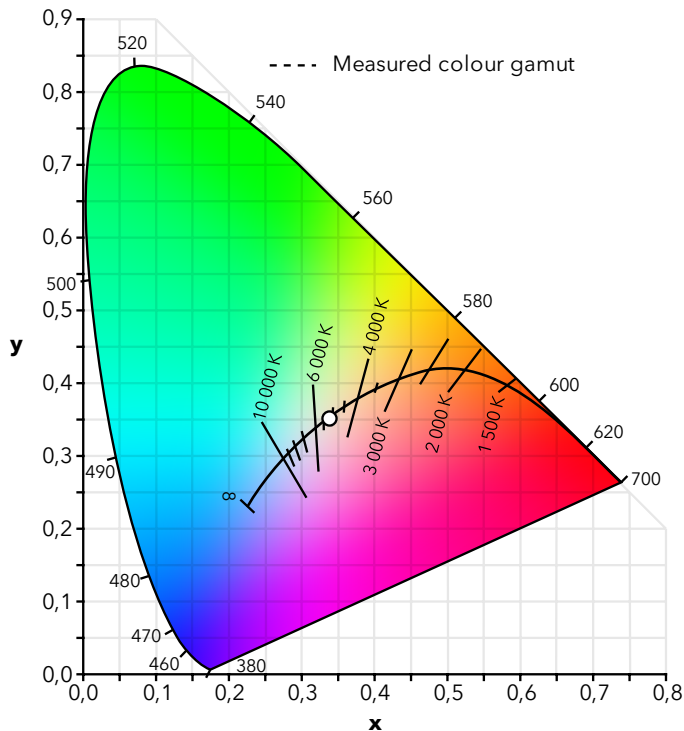
TLCI-2012: 96 (D5299)



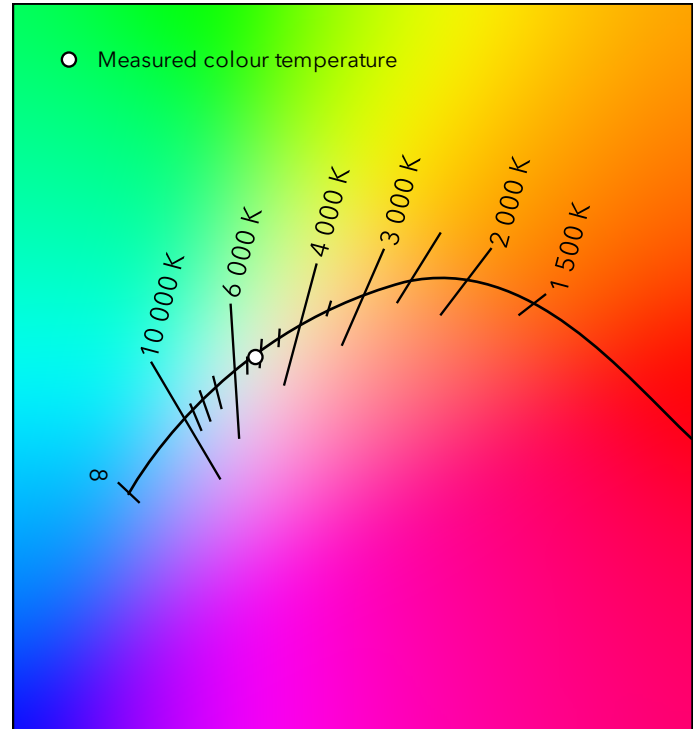
Sector	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	0
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	+
M	0	0	+
M/R	+	0	0



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: 10.05.2024

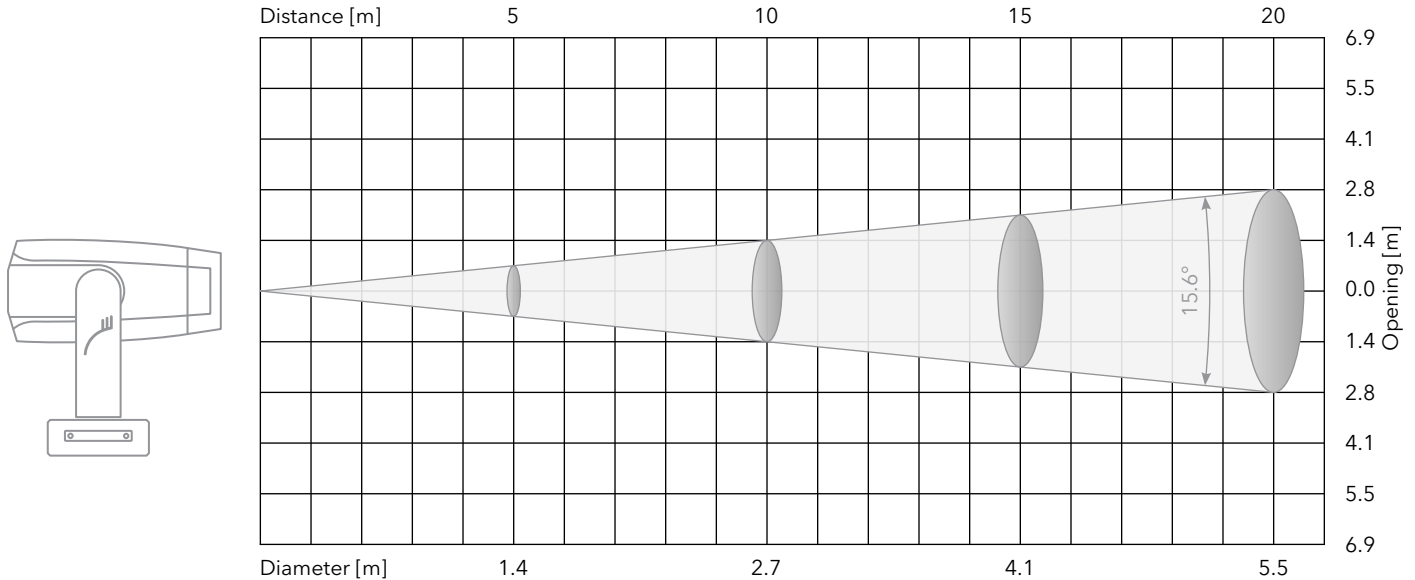
ROBE

iForte LTX WB HCF

Photometric report

Field angle 15.6° - Medium zoom

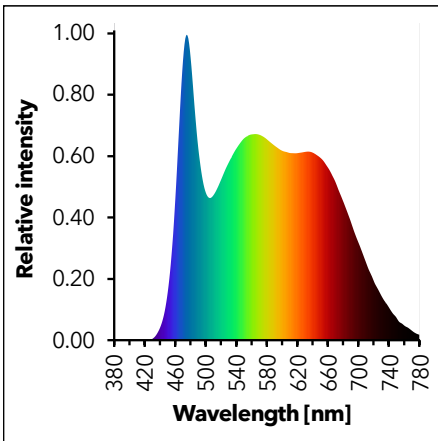
Field angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
15.6°	32696 lm	26157 lm	618625 cd	1171 W



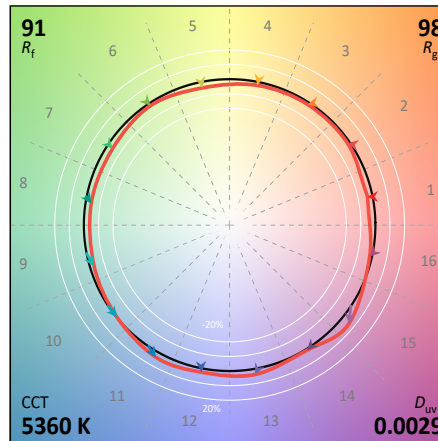
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	24745/2299	6186/575	2749/255	1547/144	687/64	387/36	247/23	26157
Auto Fan Mode	24564/2282	6141/571	2729/254	1535/143	682/63	384/36	246/23	25966
Quiet Fan Mode	15784/1466	3946/367	1754/163	987/92	438/41	247/23	158/15	16685

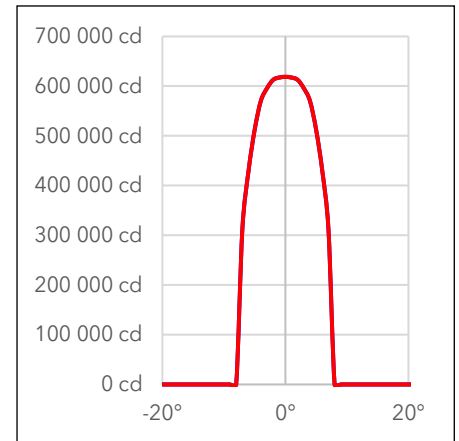
Spectrum



TM-30



Light distribution



Color temperature	CCT	5360 K
Color Deviation from Black	Duv	0.0030
Color Coordinate CIE 1931	x	0.3359
	y	0.3498
Color Coordinate	u	0.2059
	v	0.3216

Color rendering index	CRI	95
Red component	CRI R9	79
Color fidelity	TM30 Rf	91
Color gamut	TM30 Rg	98
Television consistency Index	TLCI	96

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

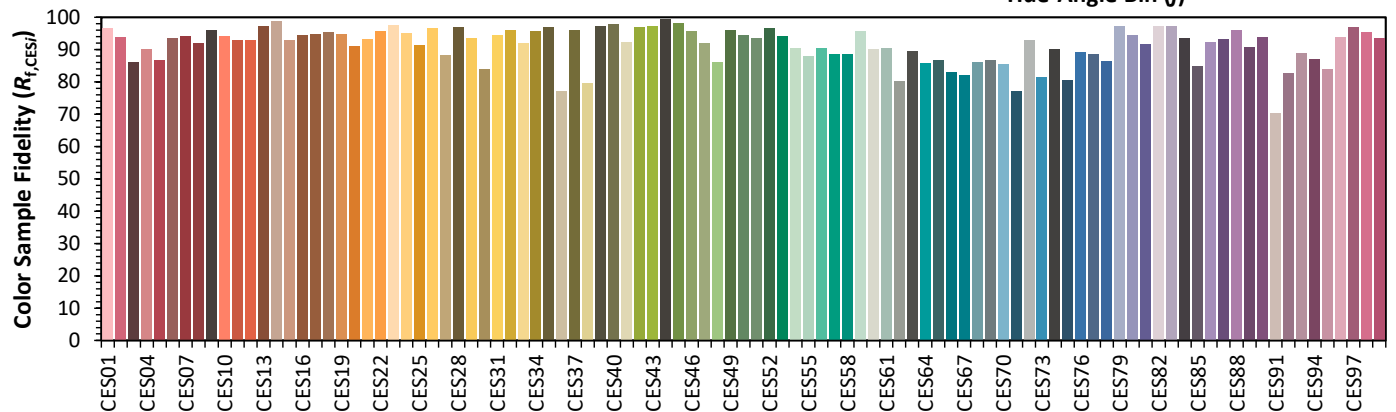
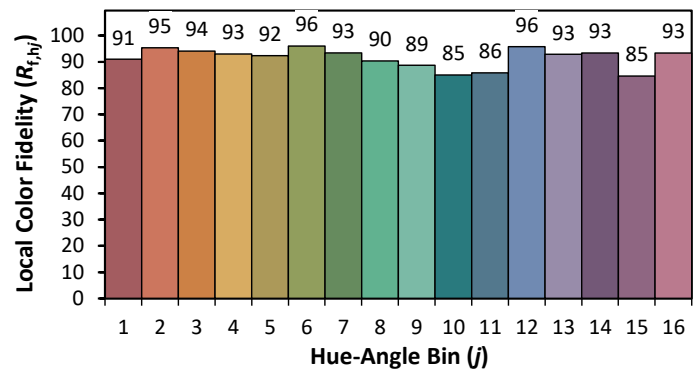
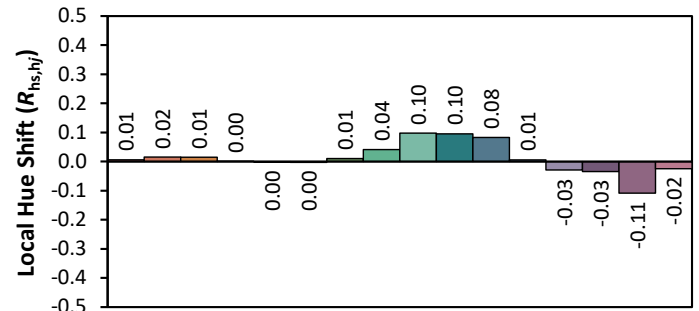
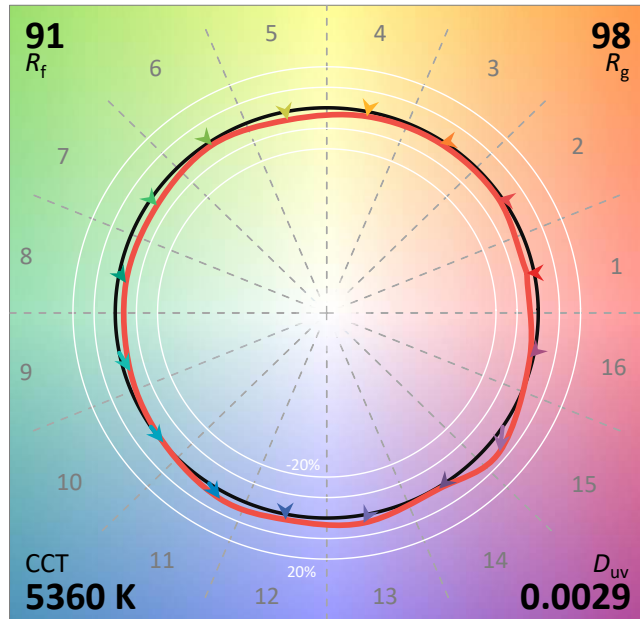
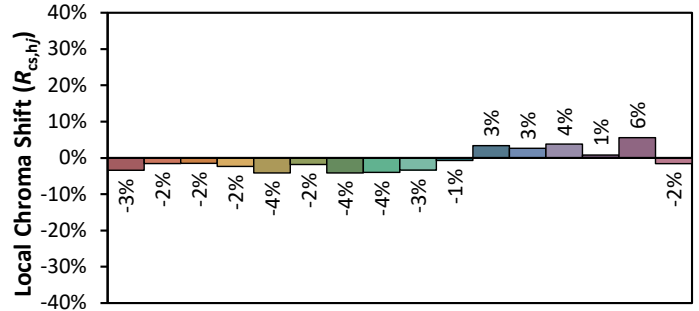
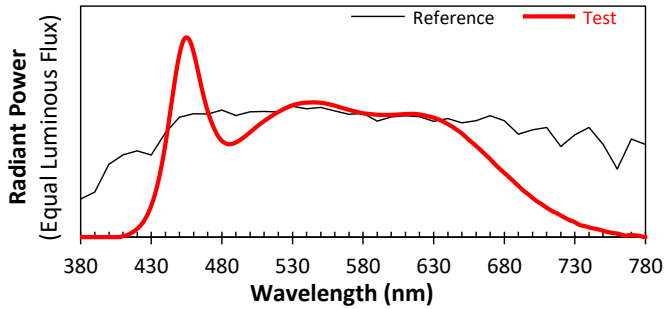
Measurement date: 10.05.2024

iForte LTX WB HCF

Photometric report

Field angle 15.6° - Medium zoom

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3359
y 0.3498
 u' 0.2059
 v' 0.4824

CIE 13.3-1995
(CRI)

R_a 95

R_g 79

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

Measurement date: 10.05.2024

ROBE

iForte LTX WB HCF

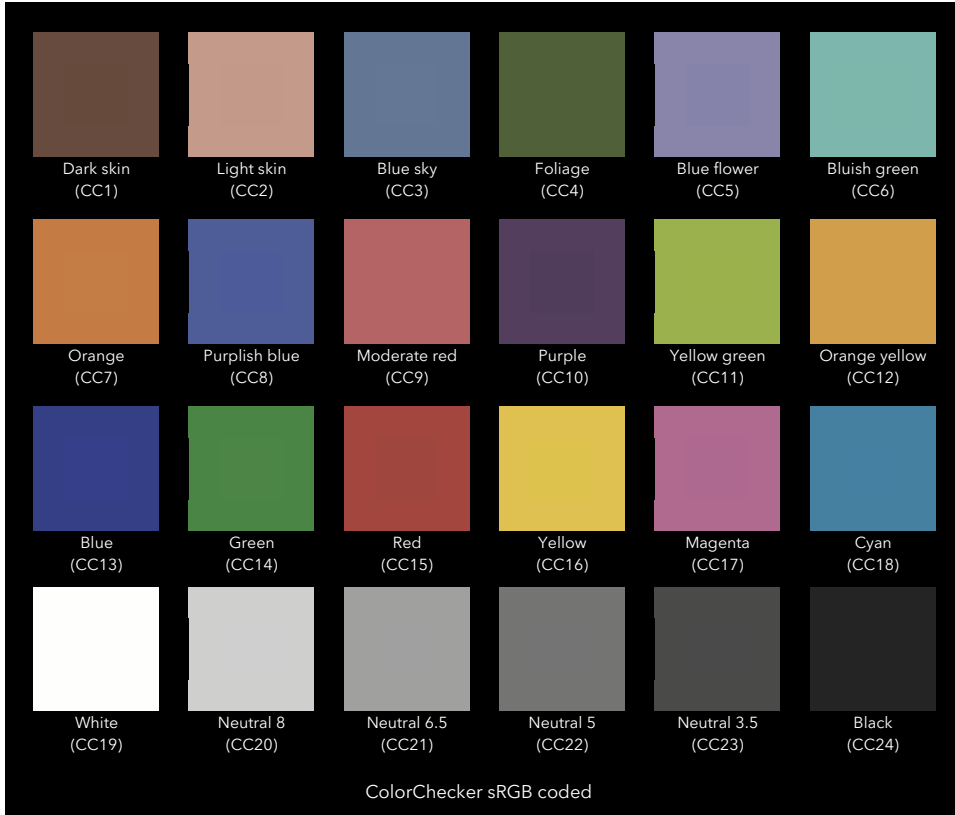
Photometric report

Field angle 15.6° - Medium zoom

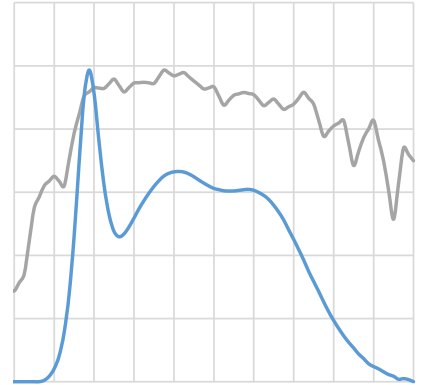
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5360 (+0.5)

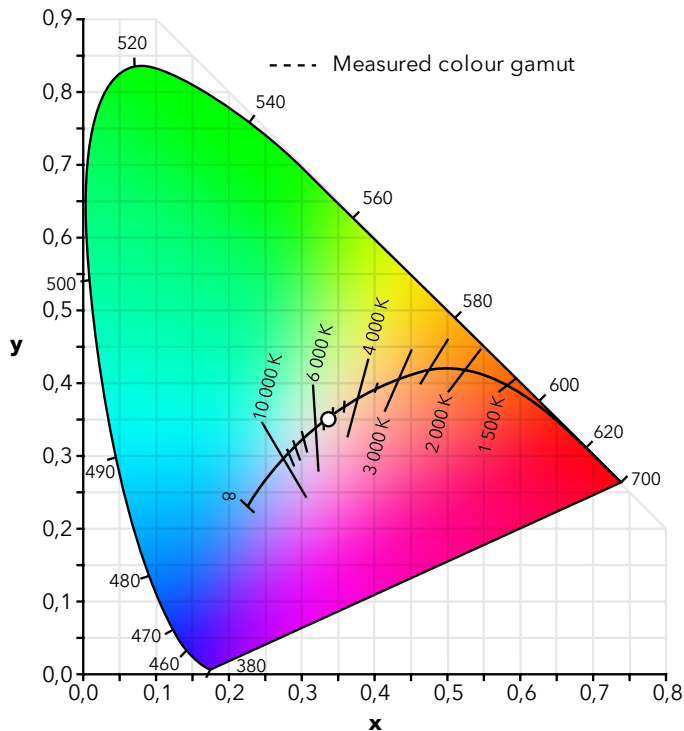
TLCI-2012: 96 (D5360)



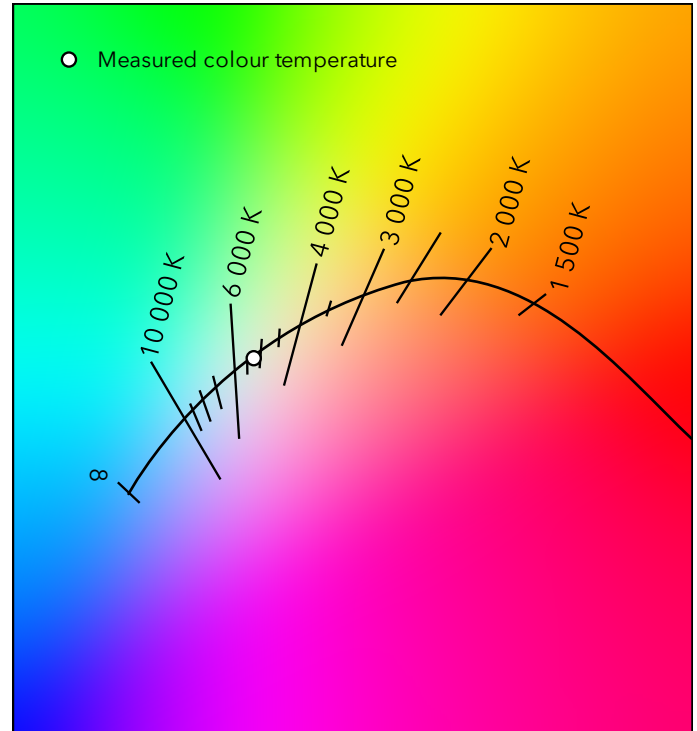
Sector	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	0
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	+
M	0	0	+
M/R	+	0	0



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: 10.05.2024

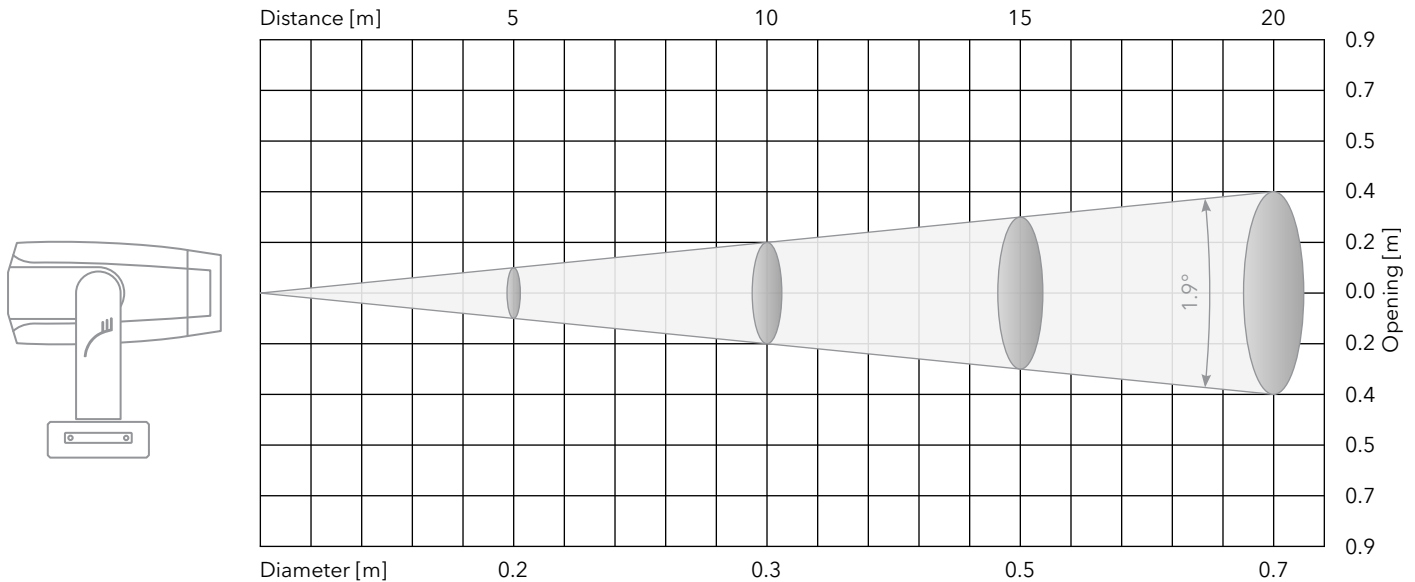
ROBE

iForte LTX WB HCF

Photometric report

Field angle 1.9° - Min. zoom Narrowed Iris 0

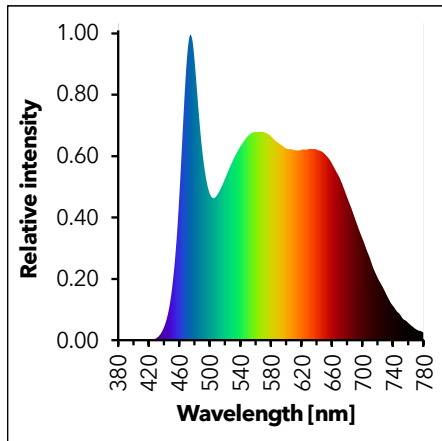
Field angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
1.9°	4967 lm	4730 lm	5867600 cd	1080 W



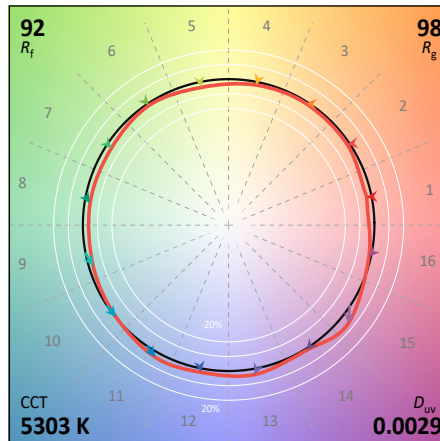
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	234704/21805	58676/5451	26078/2423	14669/1363	6520/606	3667/341	2347/218	4730
Auto Fan Mode	232987/21645	58247/5411	25887/2405	14562/1353	6472/601	3640/338	2330/216	4695
Quiet Fan Mode	149713/13909	37428/3477	16635/1545	9357/869	4159/386	2339/217	1497/139	3017

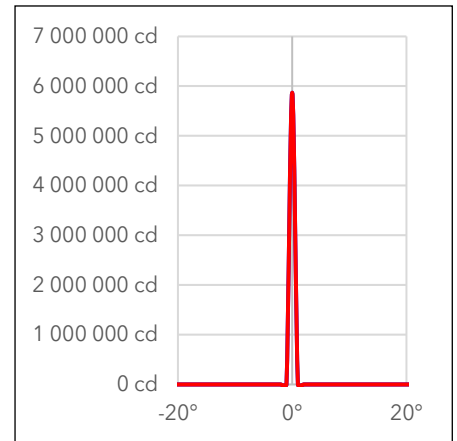
Spectrum



TM-30



Light distribution



Color temperature	CCT	5303 K
Color Deviation from Black	Duv	0.0029
Color Coordinate CIE 1931	x	0.3373
	y	0.3509
Color Coordinate	u	0.2064
	v	0.3221

Color rendering index	CRI	95
Red component	CRI R9	79
Color fidelity	TM30 Rf	92
Color gamut	TM30 Rg	98
Television consistency Index	TLCI	96

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

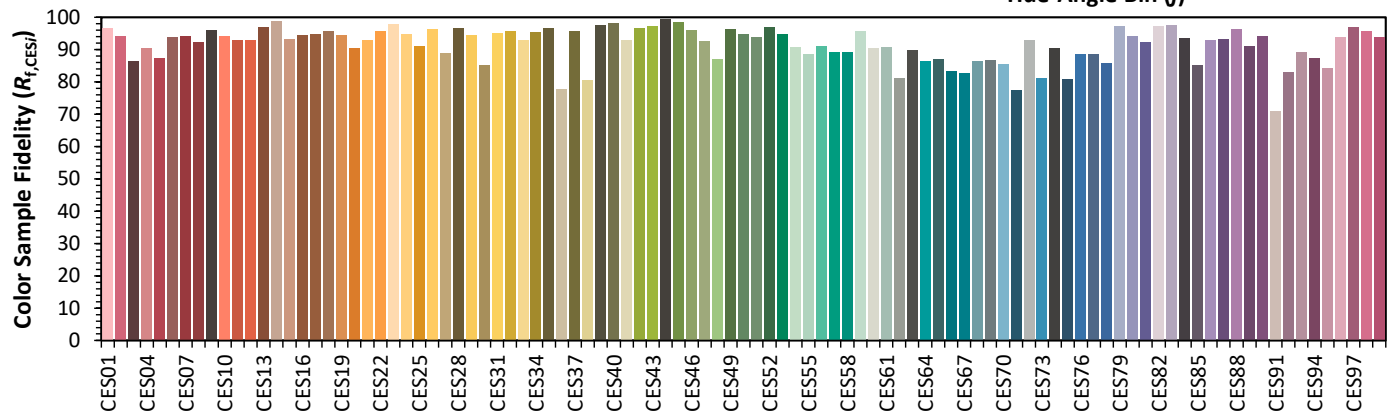
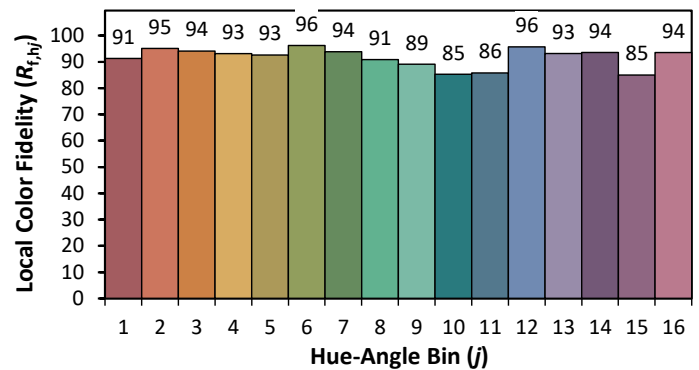
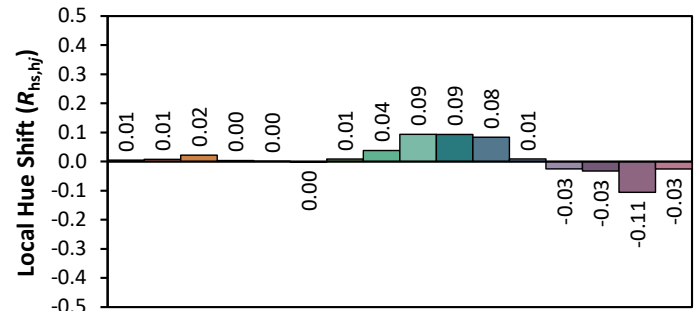
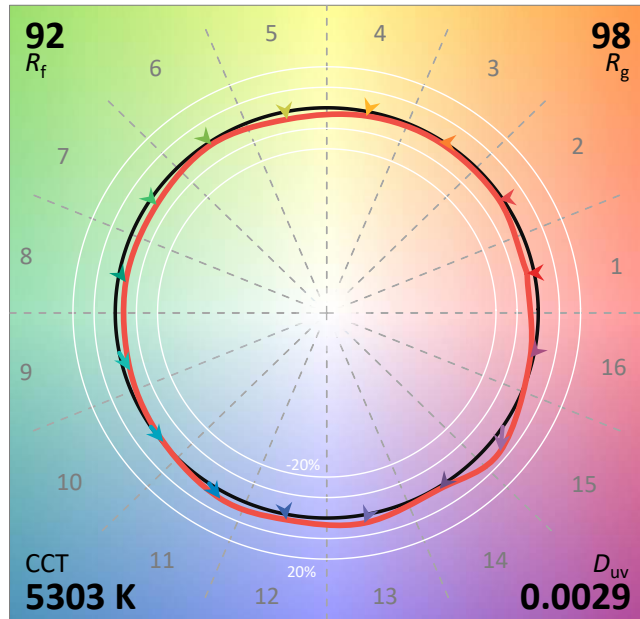
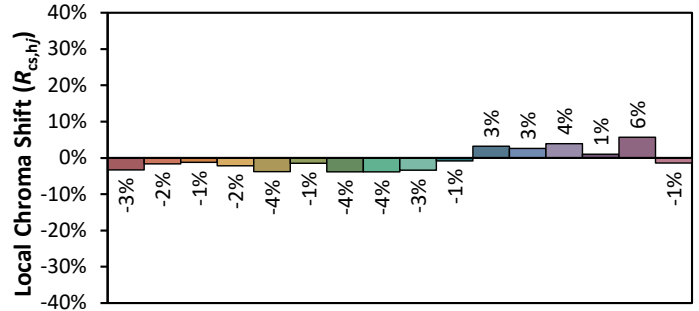
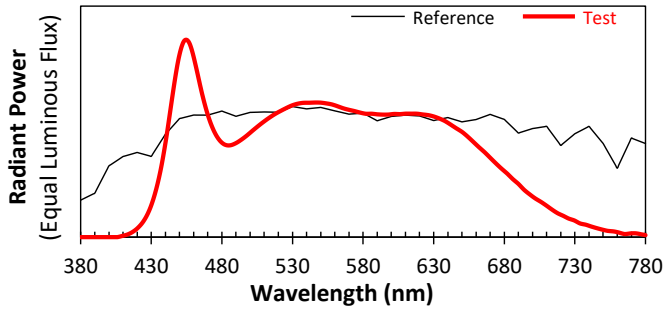
Measurement date: 10.05.2024

iForte LTX WB HCF

Photometric report

Field angle 1.9° - Min. zoom Narrowed Iris 0

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3373
y 0.3508
 u' 0.2064
 v' 0.4831

CIE 13.3-1995
(CRI)

R_a 95

R_g 79

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

Measurement date: 10.05.2024

ROBE

iForte LTX WB HCF

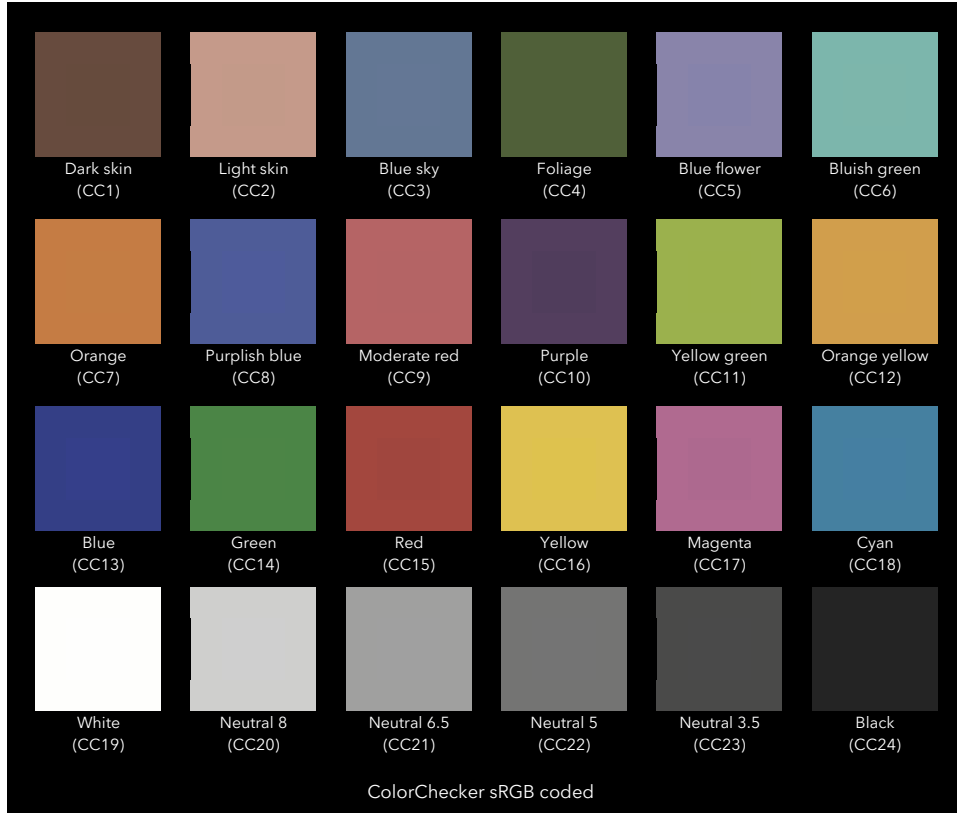
Photometric report

Field angle 1.9° - Min. zoom Narrowed Iris 0

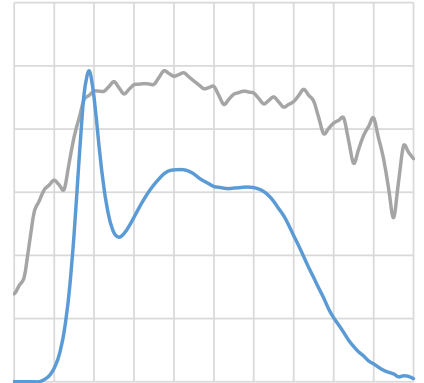
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5303 (+0.5)

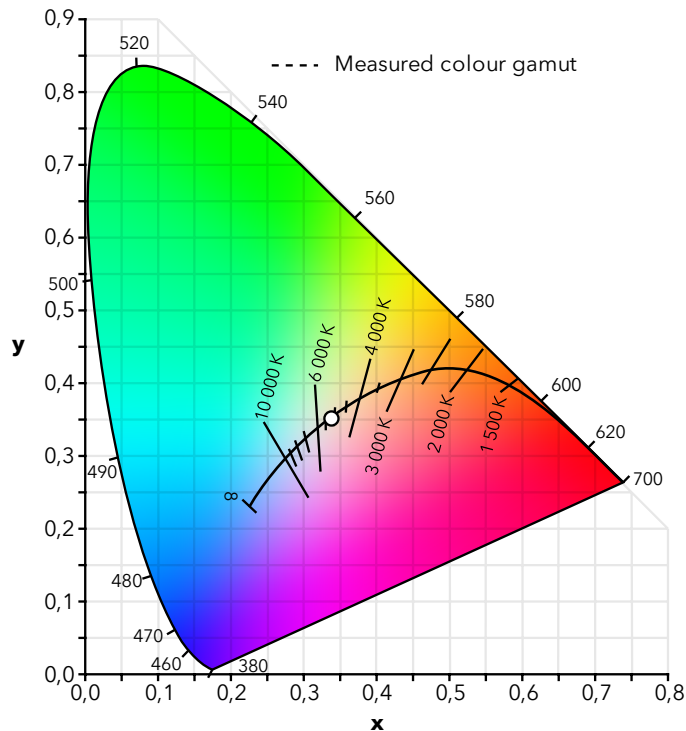
TLCI-2012: 96 (D5303)



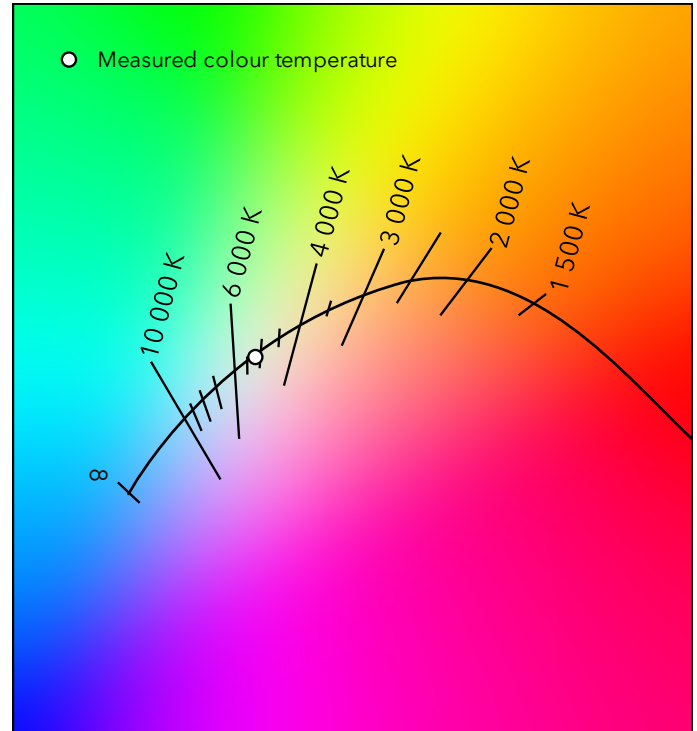
Sector	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	0
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	+
M	0	0	+
M/R	+	0	0



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: 10.05.2024

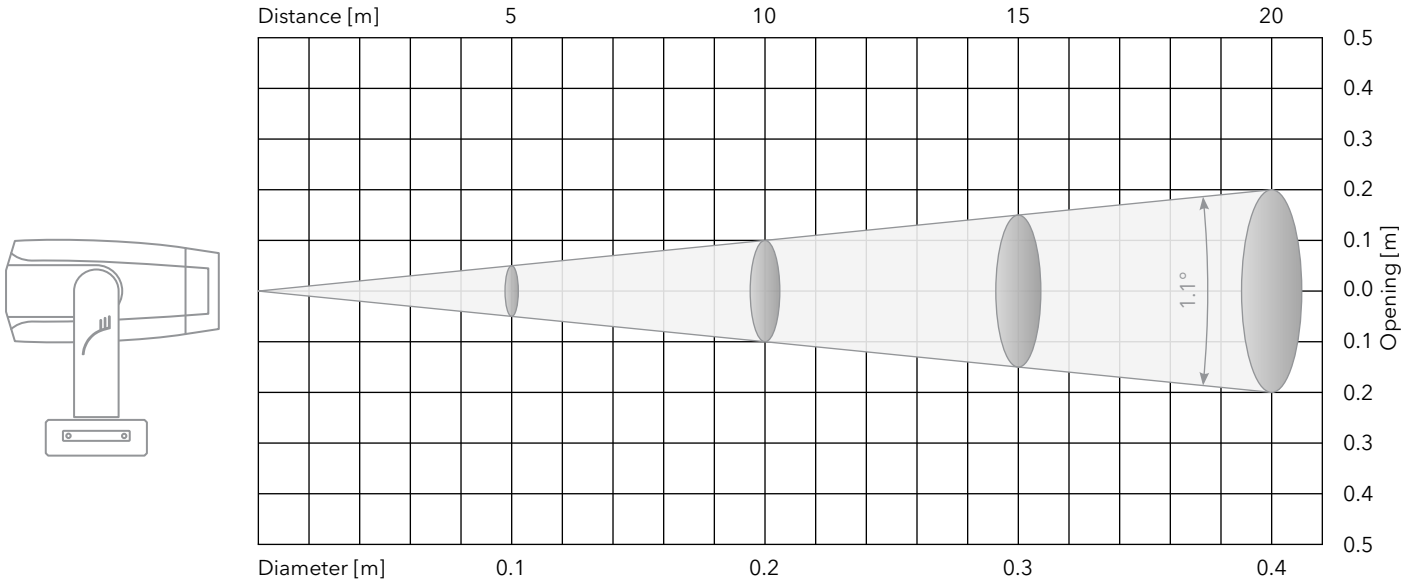
ROBE

iForte LTX WB HCF

Photometric report

Field angle 1.1° - Min. zoom Narrowed Iris 128

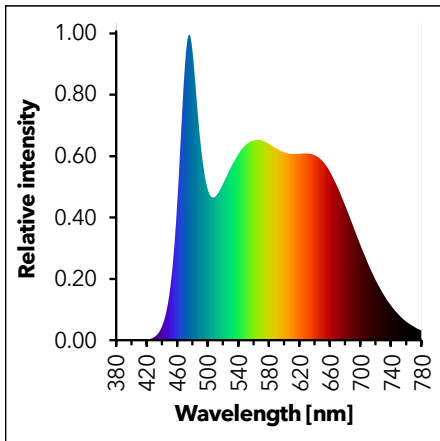
Field angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
1.1°	1830 lm	1743 lm	6084075 cd	1080 W



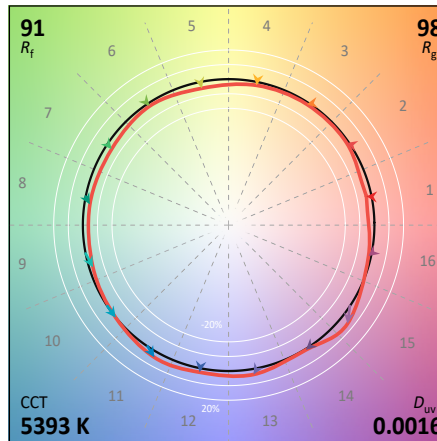
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	243363/22609	60841/5652	27040/2512	15210/1413	6760/628	3803/353	2434/226	1743
Auto Fan Mode	241582/22444	60396/5611	26842/2494	15099/1403	6711/623	3775/351	2416/224	1730
Quiet Fan Mode	155236/14422	38809/3605	17248/1602	9702/901	4312/401	2426/225	1552/144	1112

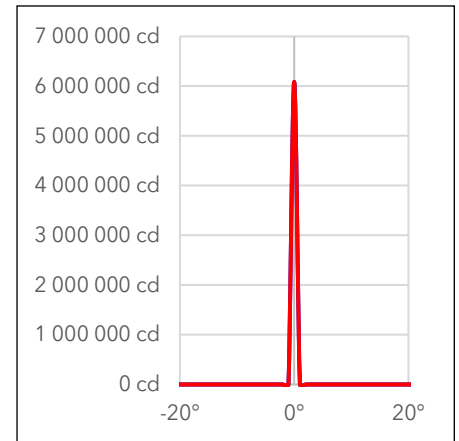
Spectrum



TM-30



Light distribution



Color temperature	CCT	5393 K
Color Deviation from Black	Duv	0.0016
Color Coordinate CIE 1931	x	0.3350
	y	0.3464
Color Coordinate	u	0.2066
	v	0.3204

Color rendering index	CRI	95
Red component	CRI R9	80
Color fidelity	TM30 Rf	91
Color gamut	TM30 Rg	98
Television consistency Index	TLCI	96

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

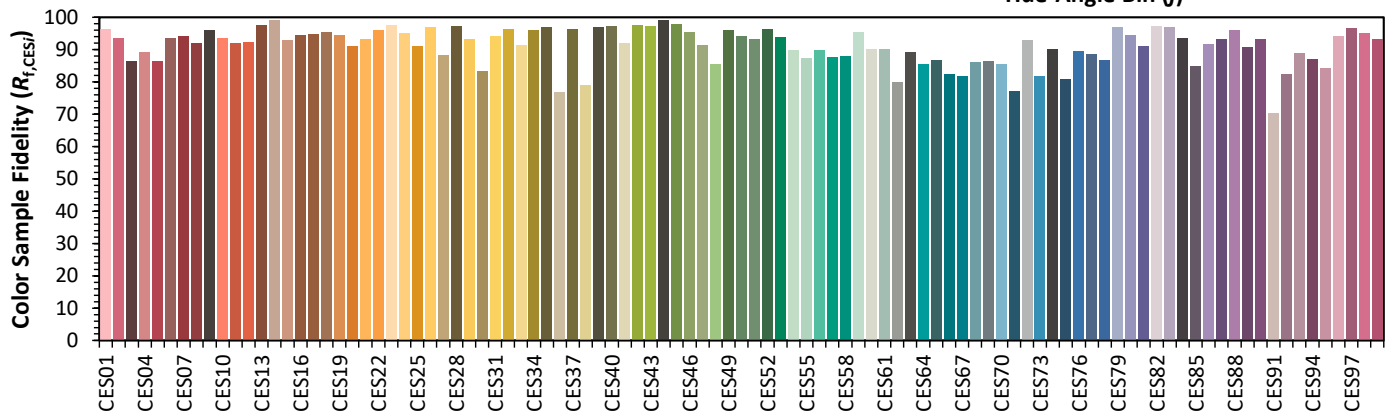
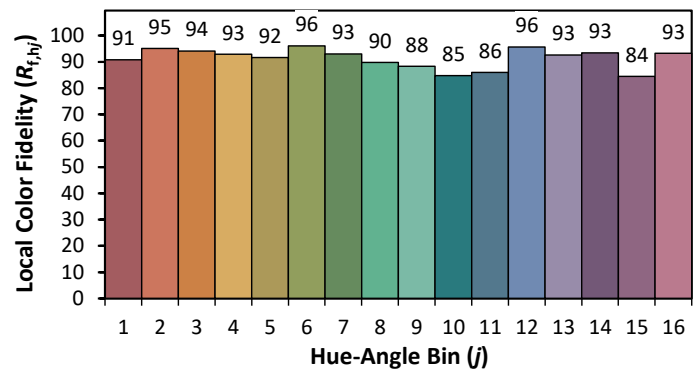
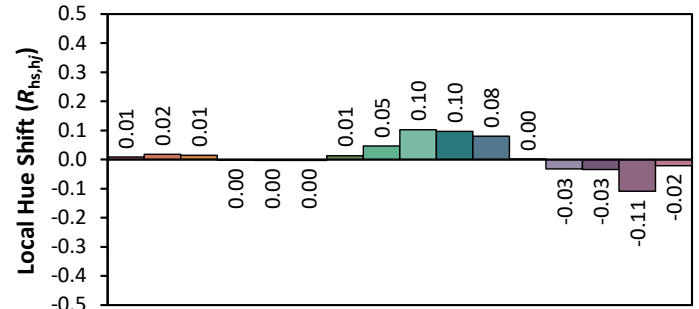
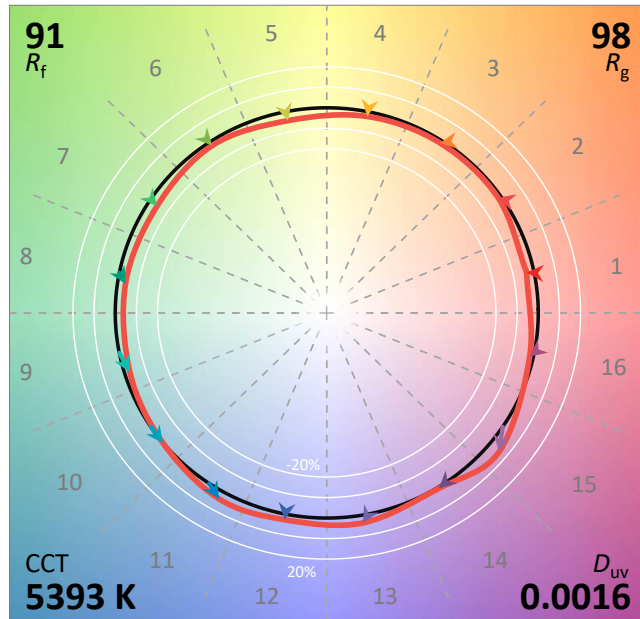
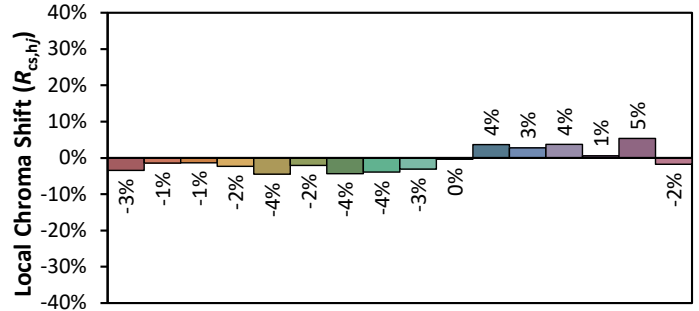
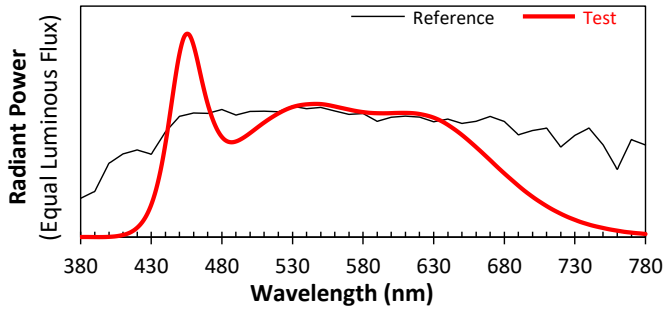
Measurement date: 10.05.2024

iForte LTX WB HCF

Photometric report

Field angle 1.1° - Min. zoom Narrowed Iris 128

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3350
y 0.3464
 u' 0.2066
 v' 0.4806

CIE 13.3-1995
(CRI)

R_a 95

R_g 80

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

Measurement date: 10.05.2024

ROBE

iForte LTX WB HCF

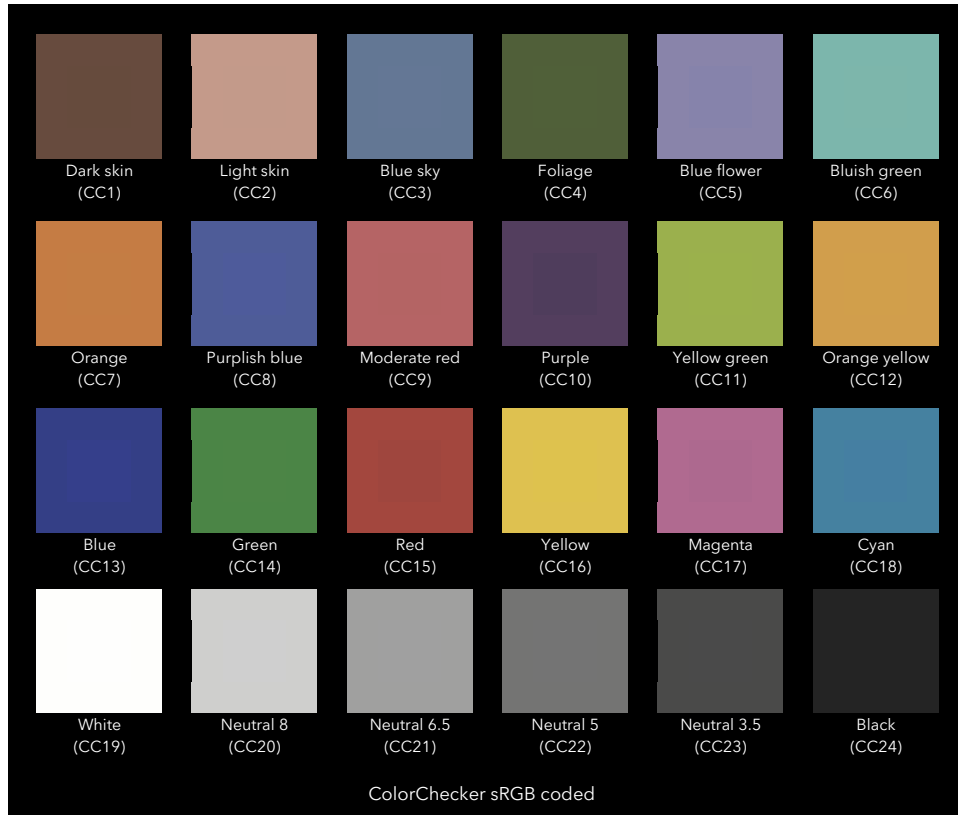
Photometric report

Field angle 1.1° - Min. zoom Narrowed Iris 128

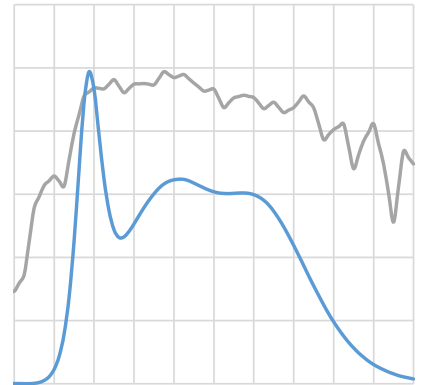
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5393 (+0.3)

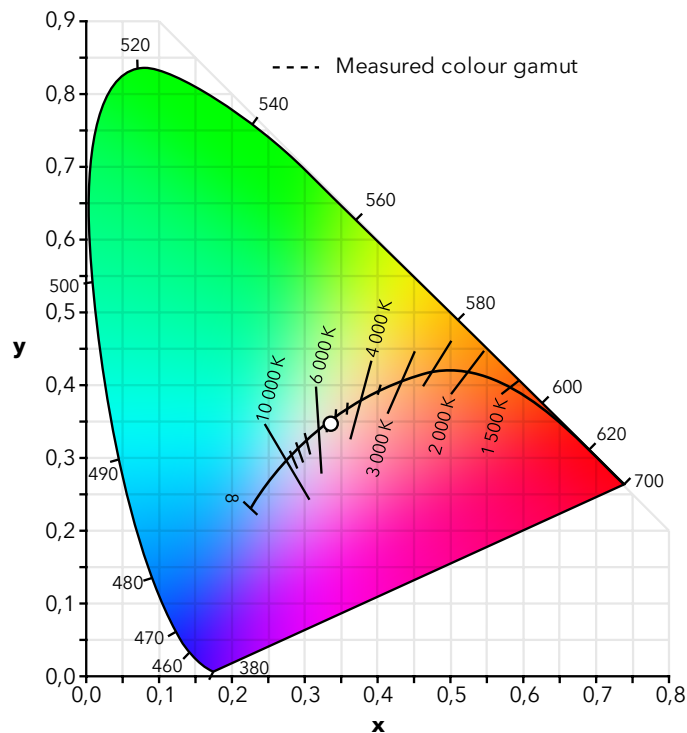
TLCI-2012: 96 (D5393)



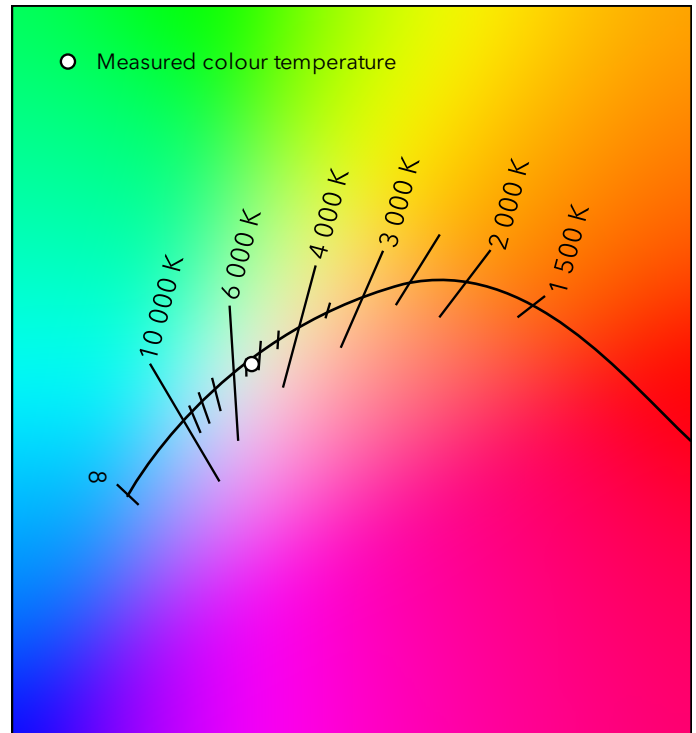
Sector	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	-
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	+
M	+	+	+
M/R	+	0	0



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: 10.05.2024

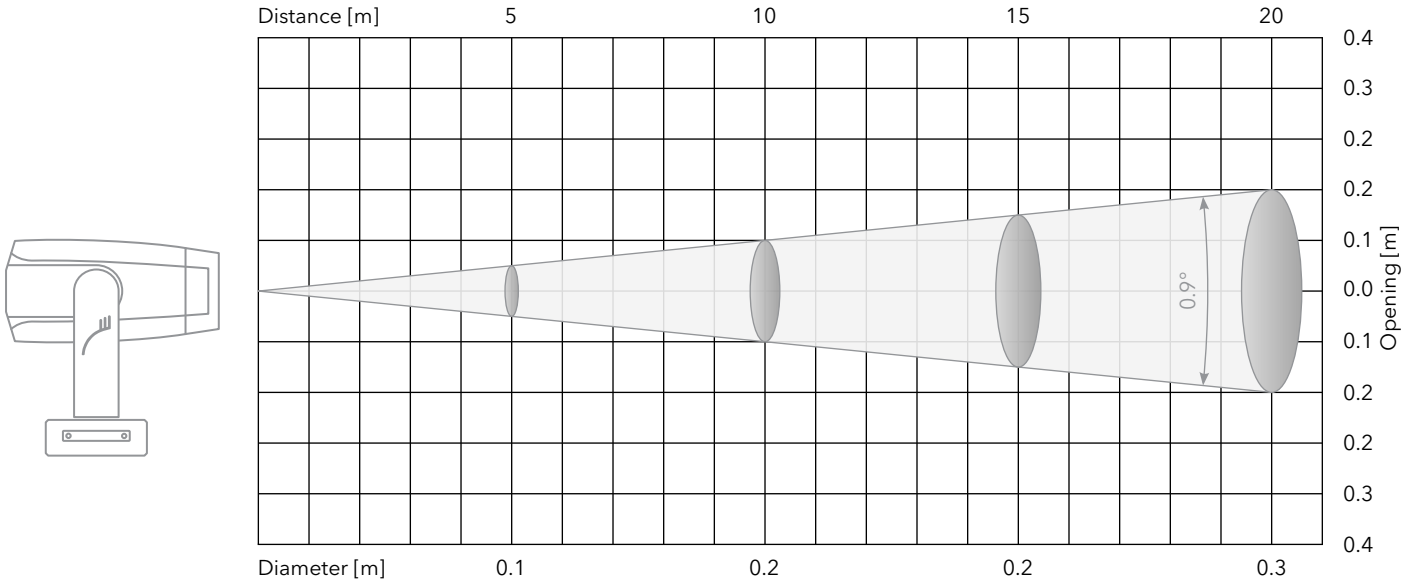
ROBE

iForte LTX WB HCF

Photometric report

Field angle 0.9° - Min. zoom Narrowed Iris 160

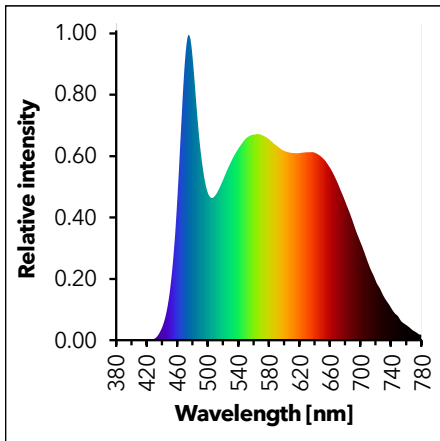
Field angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
0.9°	865 lm	824 lm	6079275 cd	1080 W



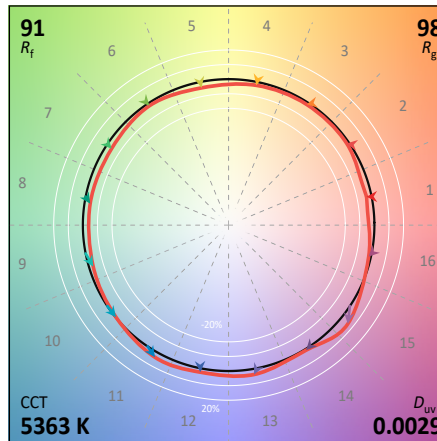
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	243171/22591	60793/5648	27019/2510	15198/1412	6755/628	3800/353	2432/226	824
Auto Fan Mode	241392/22426	60348/5607	26821/2492	15087/1402	6705/623	3772/350	2414/224	818
Quiet Fan Mode	155114/14411	38779/3603	17235/1601	9695/901	4309/400	2424/225	1551/144	526

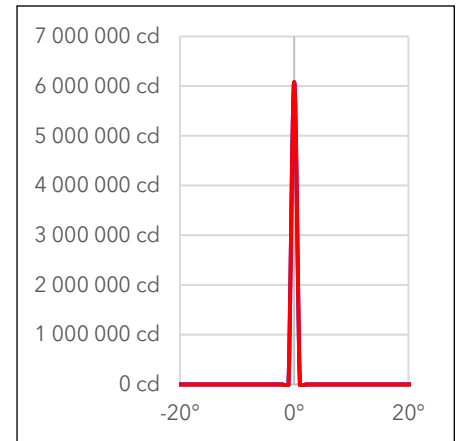
Spectrum



TM-30



Light distribution



Color temperature	CCT	5363 K
Color Deviation from Black	Duv	0.0030
Color Coordinate CIE 1931	x	0.3358
	y	0.3498
Color Coordinate	u	0.2058
	v	0.3216

Color rendering index	CRI	95
Red component	CRI R9	79
Color fidelity	TM30 Rf	91
Color gamut	TM30 Rg	98
Television consistency Index	TLCI	96

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

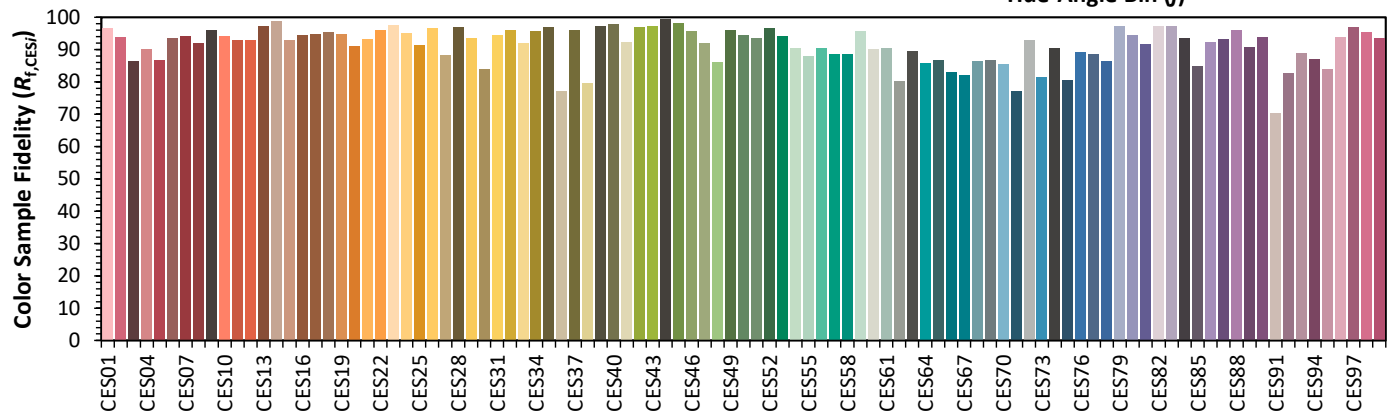
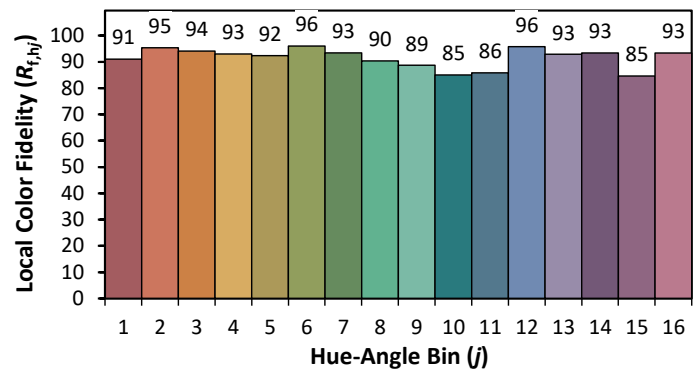
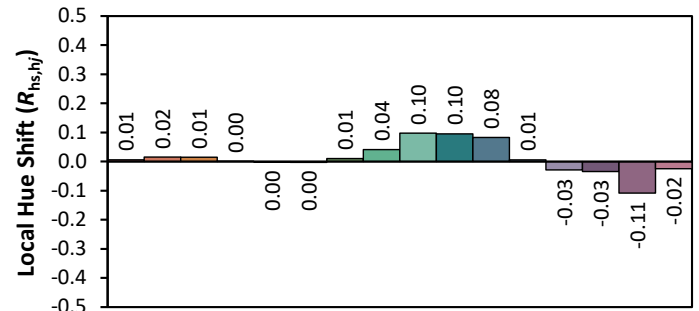
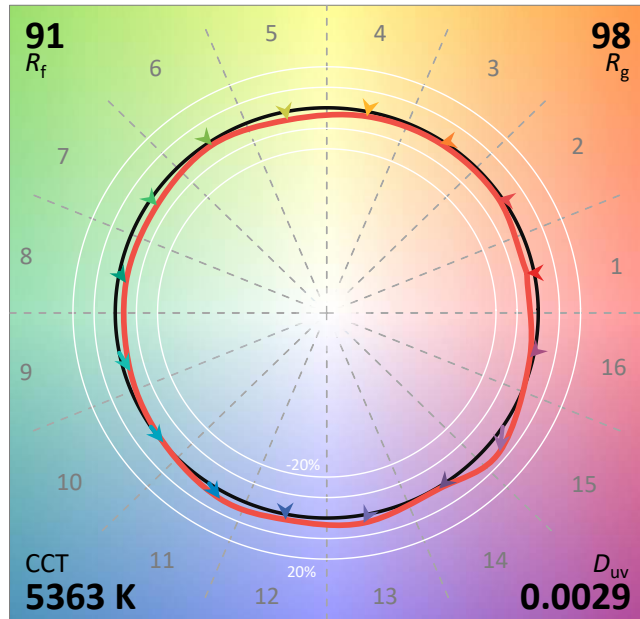
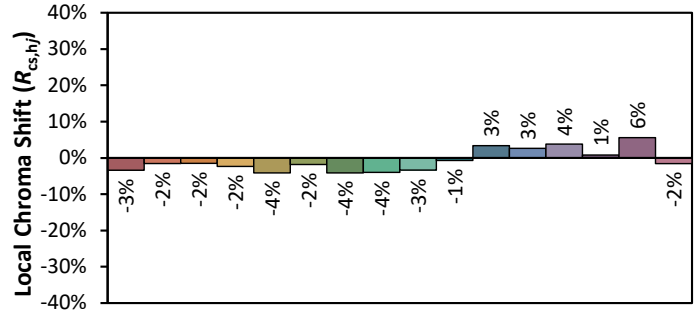
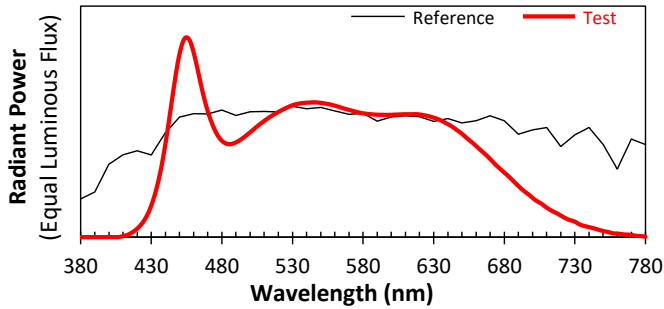
Measurement date: 10.05.2024

iForte LTX WB HCF

Photometric report

Field angle 0.9° - Min. zoom Narrowed Iris 160

ANSI/IES TM-30-18 Color Rendition Report



Notes:

x 0.3358
y 0.3497
 u' 0.2058
 v' 0.4824

CIE 13.3-1995
(CRI)

R_a 95

R_g 79

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

Measurement date: 10.05.2024

ROBE

iForte LTX WB HCF

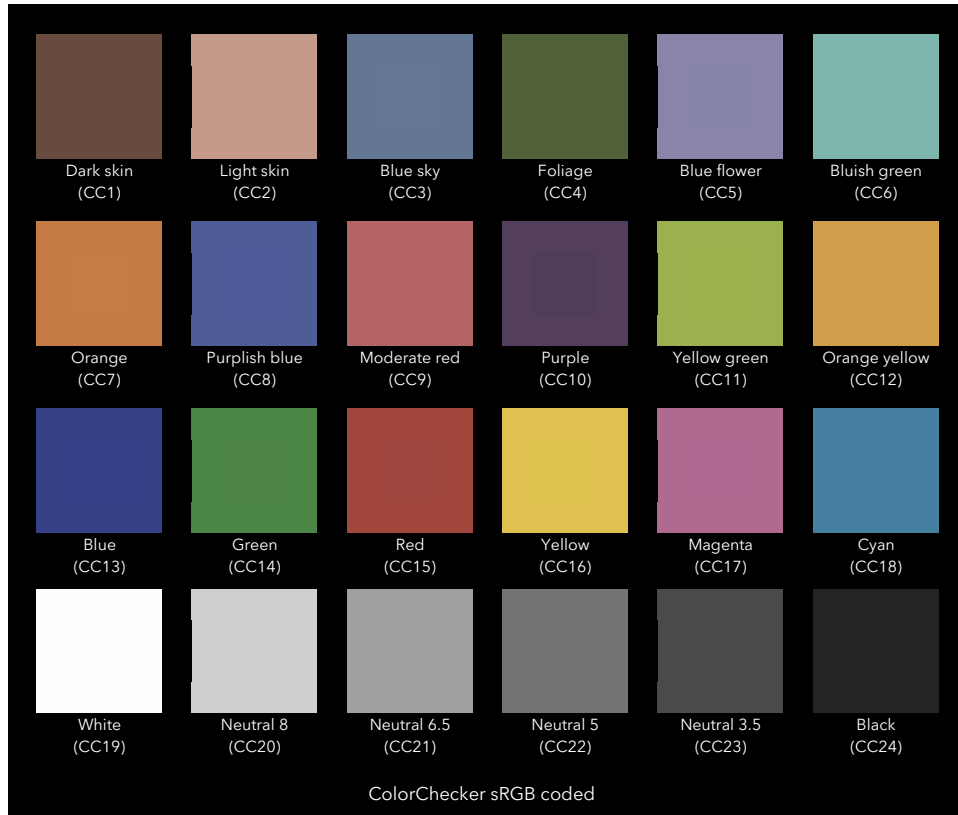
Photometric report

Field angle 0.9° - Min. zoom Narrowed Iris 160

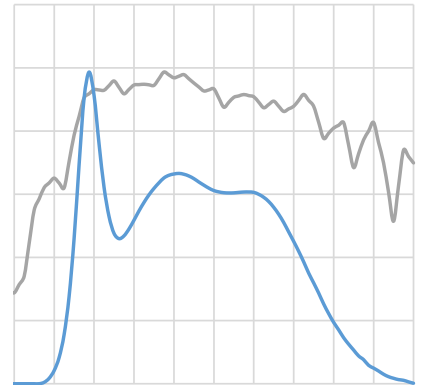
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5363 (+0.5)

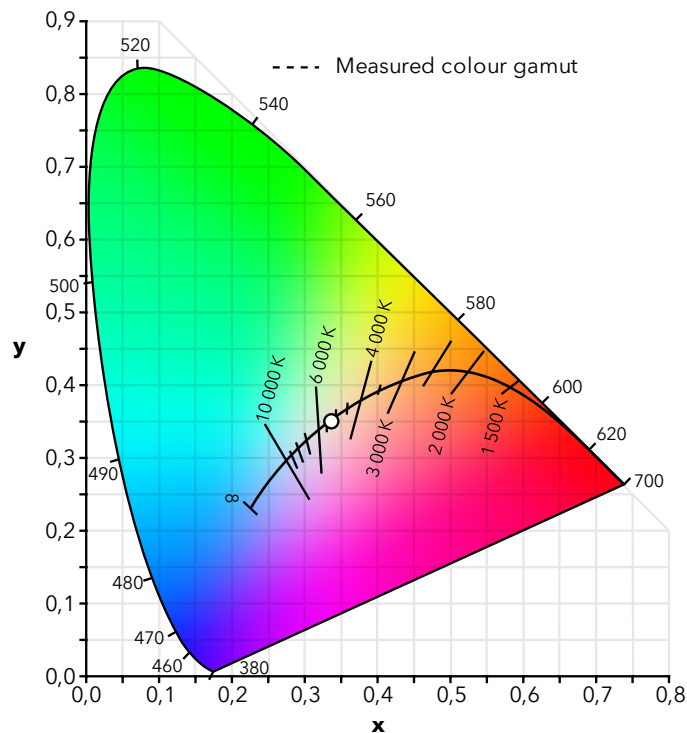
TLCI-2012: 96 (D5363)



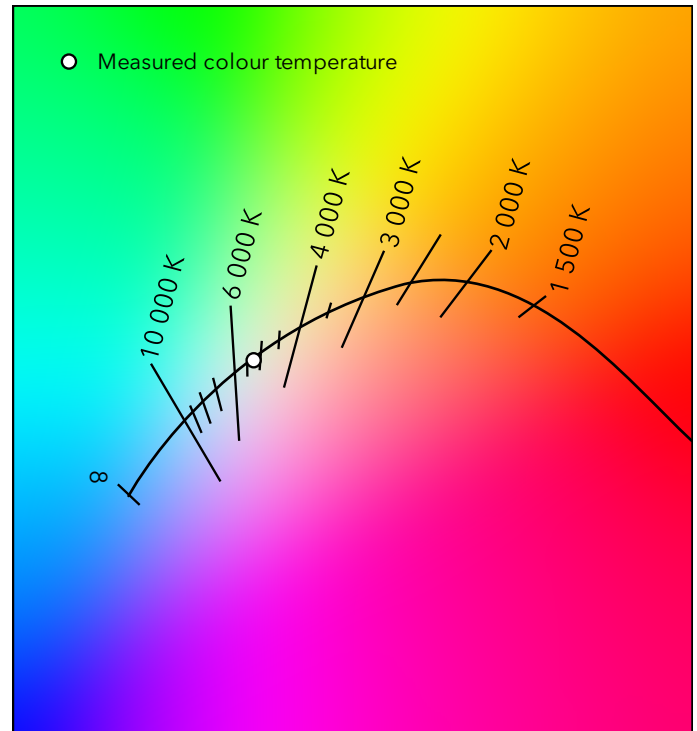
Sector	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	0
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	+
M	0	0	+
M/R	+	0	0



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

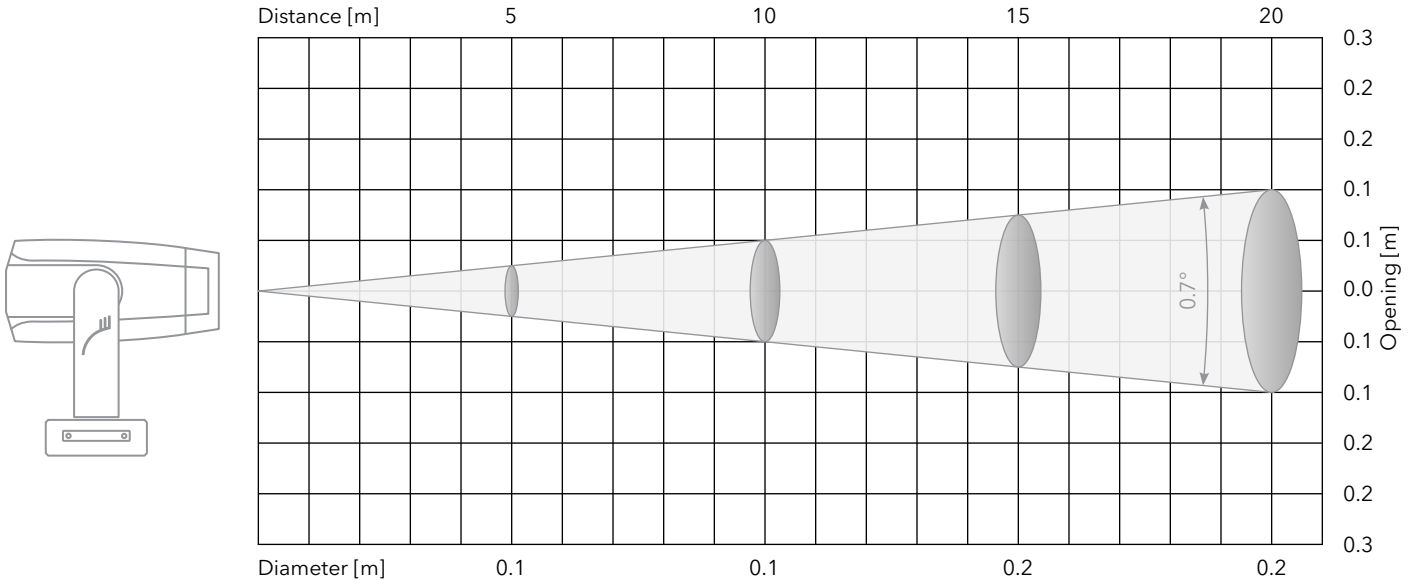
Measurement date: 10.05.2024

iForte LTX WB HCF

Photometric report

Field angle 0.7° - Min. zoom Narrowed Iris 179

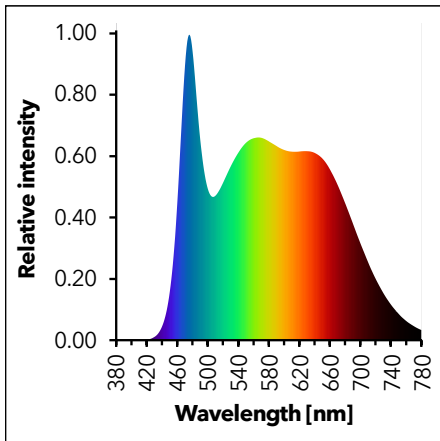
Field angle	Total lumen output (integrating sphere)	Total lumen output (goniophotometer)	Peak candela	Power
0.7°	812 lm	773 lm	6131650 cd	1173 W



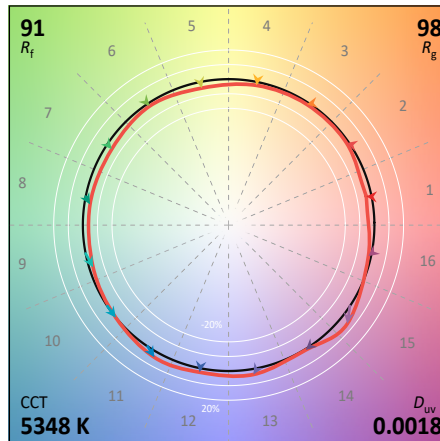
Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	245266/22786	61317/5696	27252/2532	15329/1424	6813/633	3832/356	2453/228	773
Auto Fan Mode	243471/22619	60868/5655	27052/2513	15217/1414	6763/628	3804/353	2435/226	767
Quiet Fan Mode	156449/14535	39112/3634	17383/1615	9778/908	4346/404	2445/227	1564/145	493

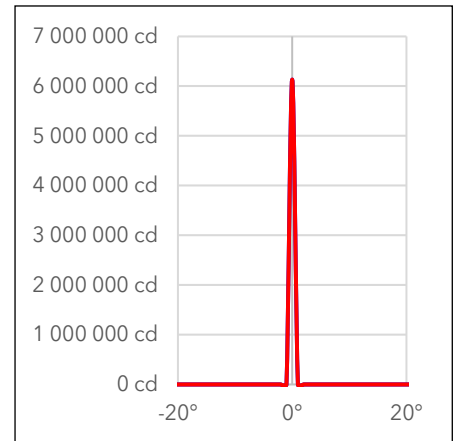
Spectrum



TM-30



Light distribution



Color temperature	CCT	5348 K
Color Deviation from Black	Duv	0.0018
Color Coordinate CIE 1931	x	0.3361
	y	0.3478
Color Coordinate	u	0.2068
	v	0.3210

Color rendering index	CRI	95
Red component	CRI R9	79
Color fidelity	TM30 Rf	91
Color gamut	TM30 Rg	98
Television consistency Index	TLCI	96

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

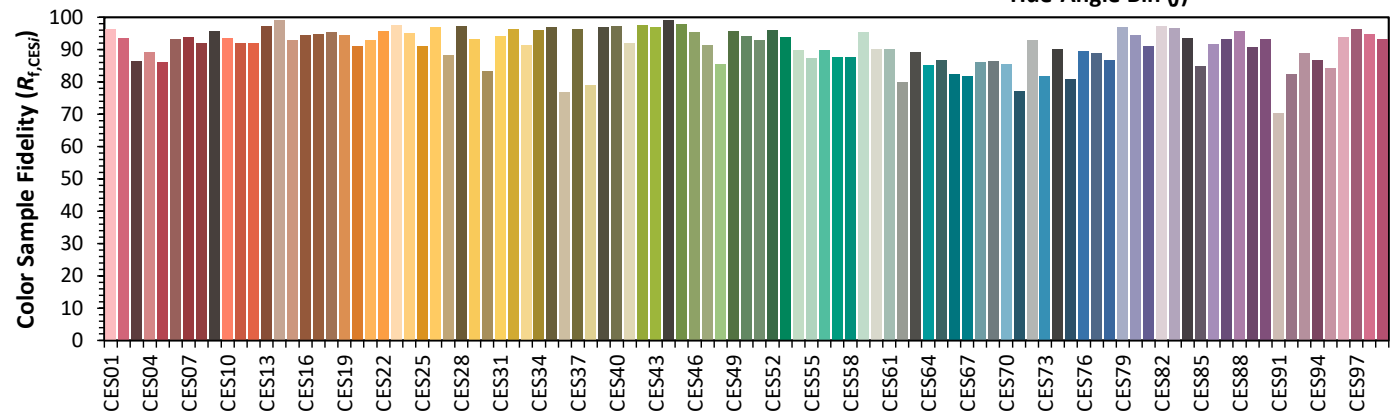
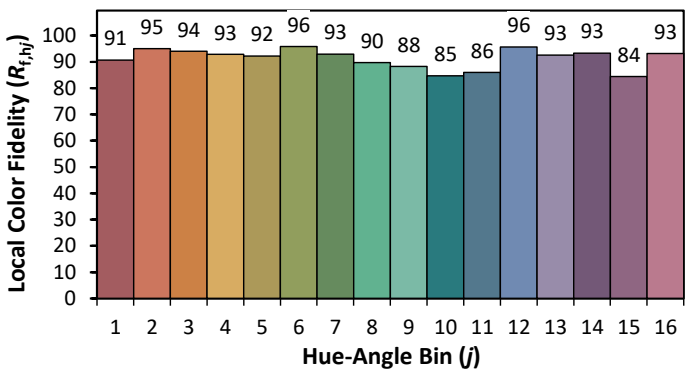
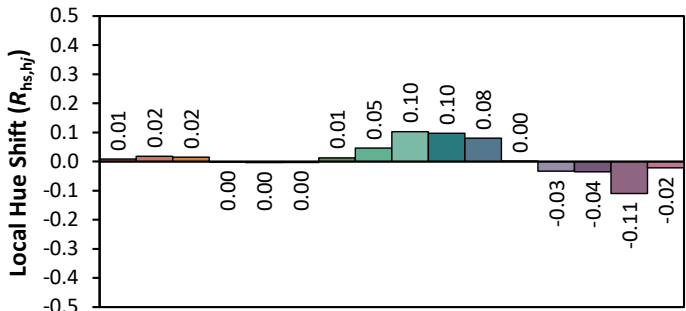
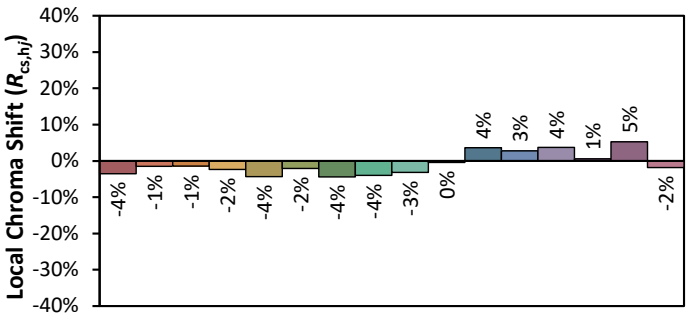
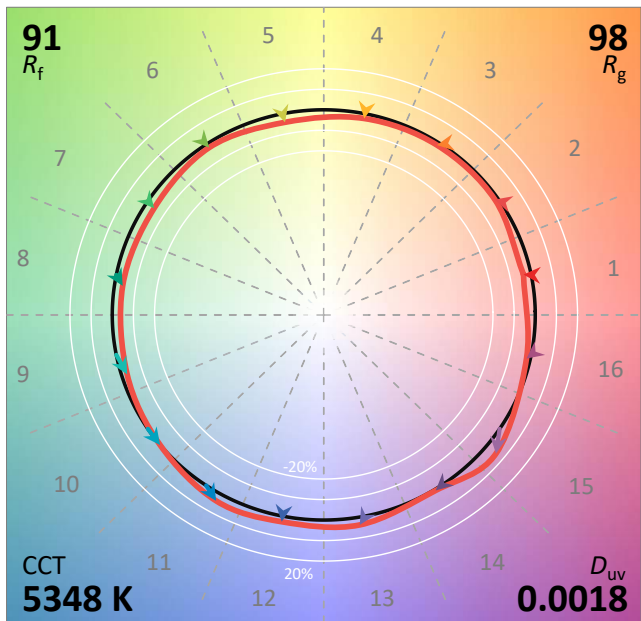
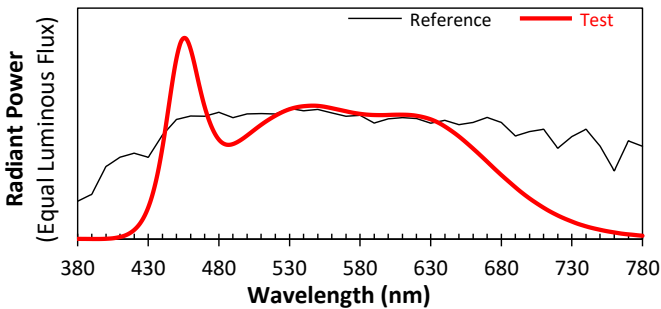
Measurement date: 10.05.2024

iForte LTX WB HCF

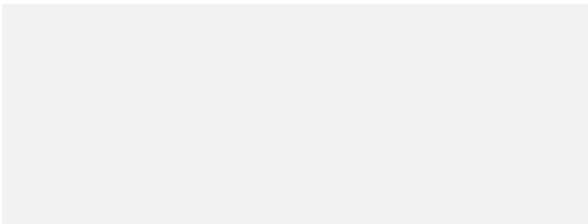
Photometric report

Field angle 0.7° - Min. zoom Narrowed Iris 179

ANSI/IES TM-30-18 Color Rendition Report



Notes:



x 0.3361
y 0.3478
 u' 0.2068
 v' 0.4814

CIE 13.3-1995
(CRI)

R_a 95
 R_g 79

iForte LTX WB HCF

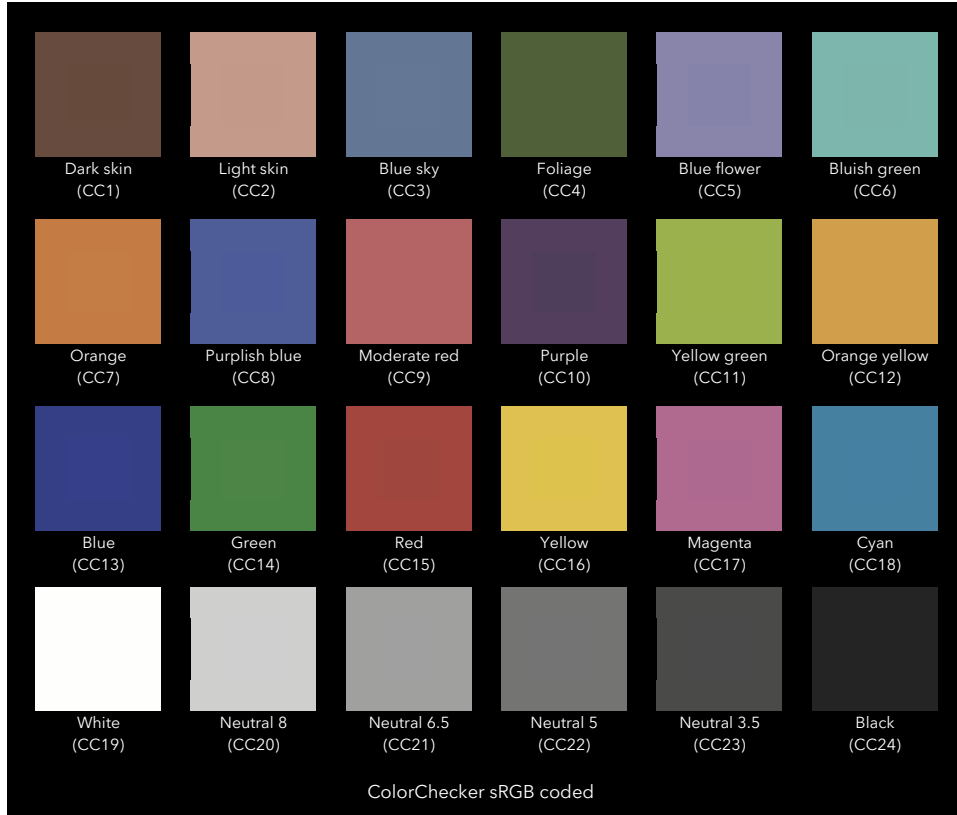
Photometric report

Field angle 0.7° - Min. zoom Narrowed Iris 179

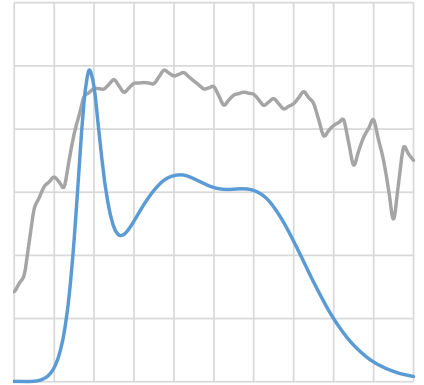
Television Lighting Consistency Index 2012 report

Direct spectrum input: CCT = D5348 (+0.3)

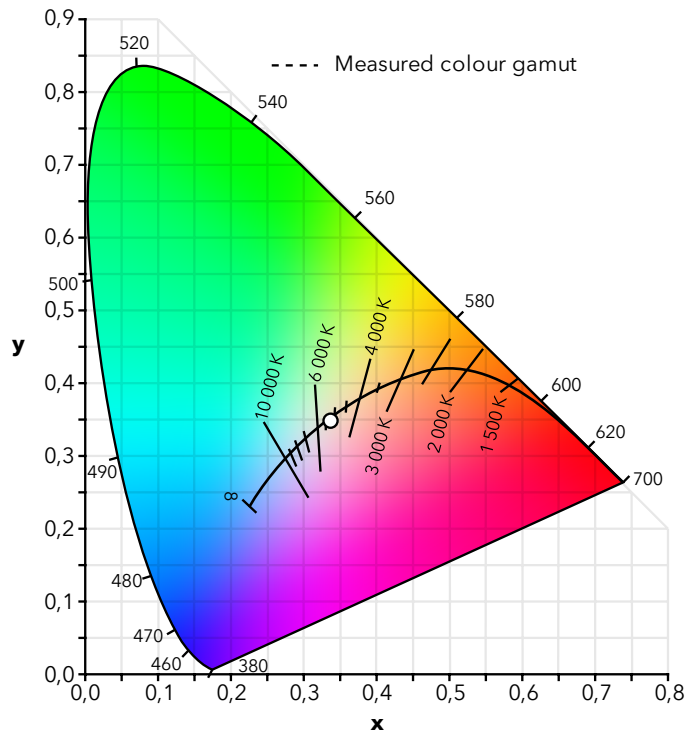
TLCI-2012: 96 (D5348)



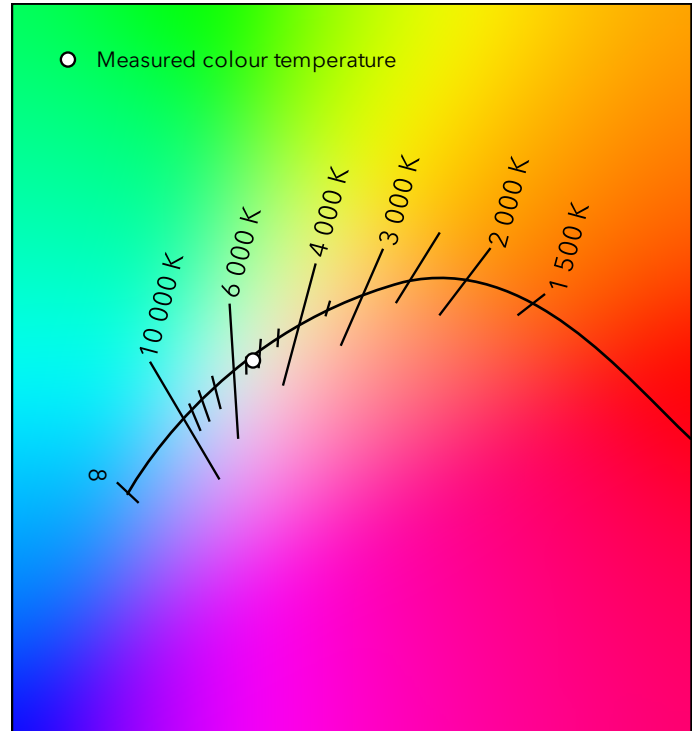
Sector	Lightness	Chroma	Hue
R	+	0	0
R/Y	0	0	-
Y	0	0	-
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	-
B	0	-	-
B/M	0	0	+
M	+	+	+
M/R	+	0	0



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: 10.05.2024

ROBE