PHOTOMETRICS REPORT

onAir IP

PANEL 1

CHAUVET PROFESSIONAL

Table of Contents

Testing Process

Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion®, which takes multiple measurements across a light beam to calculate the total delivered lumens, beam, and field of a product. These values can be described as the empirical output of the product as it projects from the lens or lenses. All photometric data contained in this report are obtained from the actual illuminance of the tested Chauvet light source and are never theoretical values derived from calculations.

Testing Lab Equipment and Process

The Chauvet headquarters in Sunrise, Florida has a climate- and light-controlled photometric testing laboratory where Chauvet products are analyzed and photometric data are measured using the Viso Systems LabSpion® light measurement solution.

This system includes a spectrometer sensor, which measures the precise light and color output of the fixture, and a two-axis goniometer, which rotates the product to allow for multi-angle and multi-directional measurement. The Viso Light Inspector software then collects and summarizes the data. From the data gathered, the software can also measure the beam and field angles, accurate color temperature, color quality, and illuminance at multiple distances. The custom-built, Chauvet-specific template presents this information in the photometric and chromaticity reports that follow.

IES (Illuminating Engineering Society) files, an industry-standard file format, are also generated from each test for easy distribution of photometric data.

Several light meters are also used for specific products or to recheck for precision. Accuracy is verified using one or more of the devices listed below:

- Sekonic SpectroMaster C-700-U
- EXTECH HD450 Datalogging Heavy Duty Light Meter
- Asensetek Essence Lighting Passport

To ensure accurate measurements in every photometric or chromaticity test, Chauvet routinely calibrates the LabSpion® system every six months as recommended by Viso Systems.

onAir IP
PANEL 1

Photometrics & Chromaticity Reports

CHAUVET PROFESSIONAL

Photometric Report

onAir IP Panel 1: Light Filter - Full Power

Report Summary

Output

Total Lumens: 8823 lm
Peak Intensity: 3690 cd
Illuminance @ 5m: 147 lux
Fixture Efficacy: 60 lm/W

Optical

Horizontal Beam Angle (50%): 97.6°
Vertical Beam Angle (50%): 97.9°
Horizontal Field Angle (10%): 151.5°
Vertical Field Angle (10%): 151.9°
Horizontal Cutoff Angle (3%): 168.3°
Vertical Cutoff Angle (3%): 169°

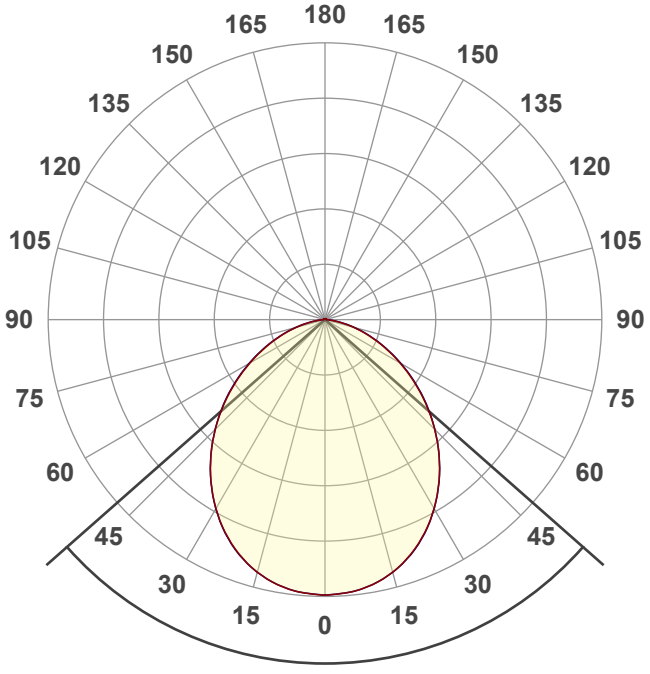
Conditions

AC Supply: 119 V, 60 Hz
Power: 148.22 W
Current: 1.25 A
Power Factor: 0.99

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 7/5/2022 to LM-63-2002 Standards.

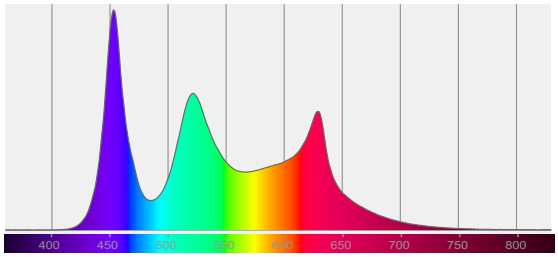
Overall Measurement

Angular Beam Distribution

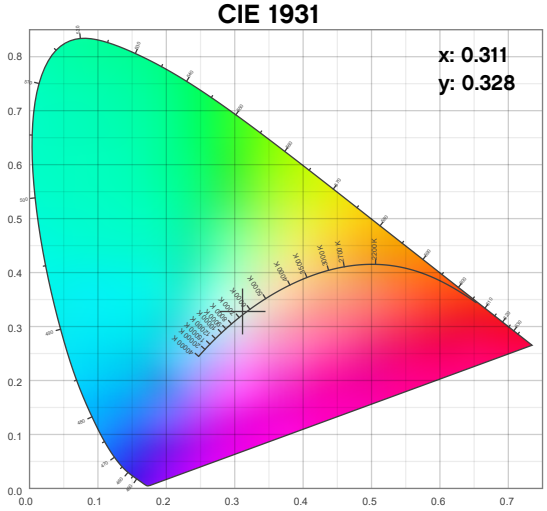


Beam Angle 97.2°

Spectral Distribution



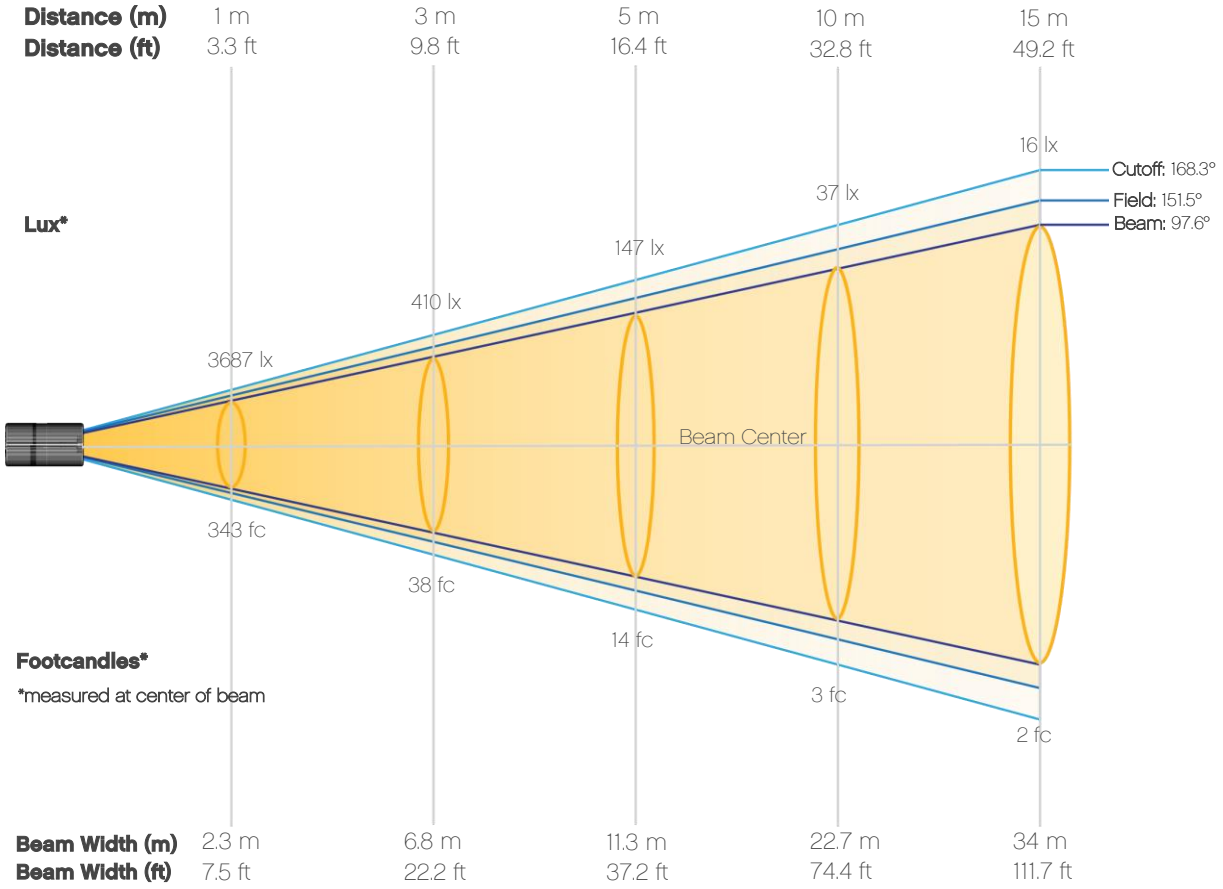
CIE 1931



Photometric Report

onAir IP Panel 1: Light Filter - Full Power

Beam Details



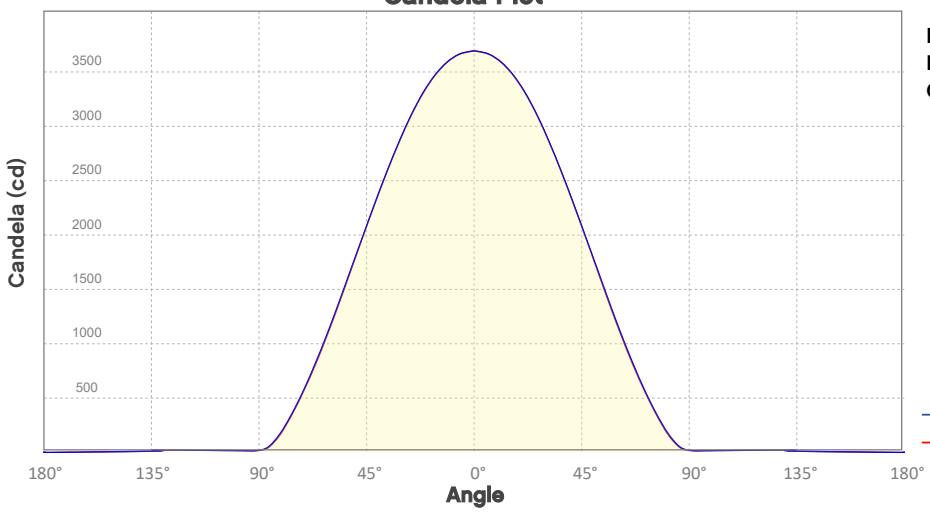
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3687	922	410	230	147	102	75	58	46	37
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	30	26	22	19	16	14	13	11	10	9
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	343	86	38	21	14	10	7	5	4	3
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	3	2	2	2	2	1	1	1	1	1

Photometric Report

onAir IP Panel 1: Light Filter - Full Power

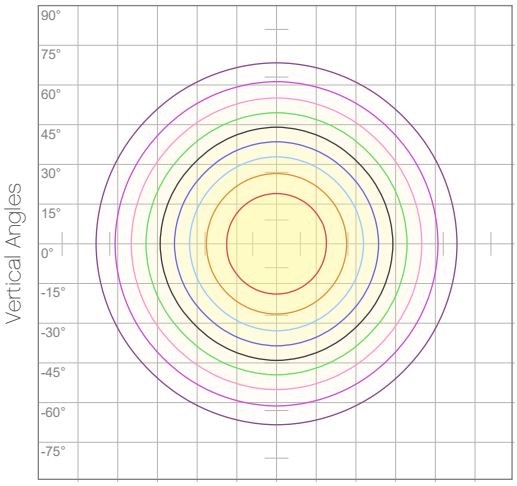
Candela Plot



Beam Angle (50%): 97.2°
Field Angle (10%): 151.3°
Cutoff Angle (3%): 168.1°

Vertical Distribution
Horizontal Distribution

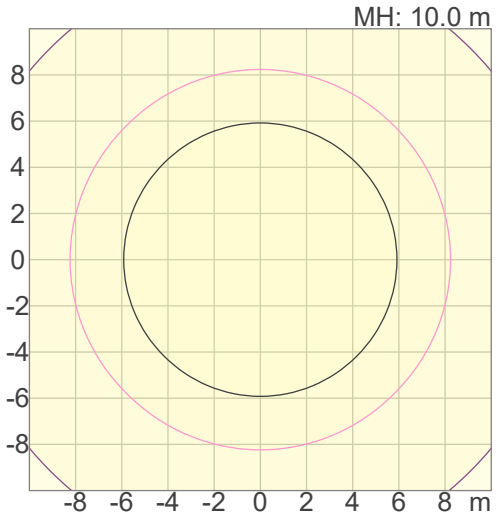
Polar Diagrams



iso-candela Diagram

10%	369 cd
20%	737 cd
30%	1106 cd
40%	1475 cd
50%	1844 cd
60%	2212 cd
70%	2581 cd
80%	2950 cd
90%	3318 cd

Conditions:
Number of c-planes: 8
Candela at center: 3687 cd



iso-illuminance Diagram

3%	1.11 lx
5%	1.84 lx
10%	3.69 lx
30%	11.1 lx
50%	18.4 lx

Conditions:
Number of c-planes: 8
Lux at center: 36.9 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

Chromaticity Report

onAir IP Panel 1: Light Filter - 3200K

Report Summary

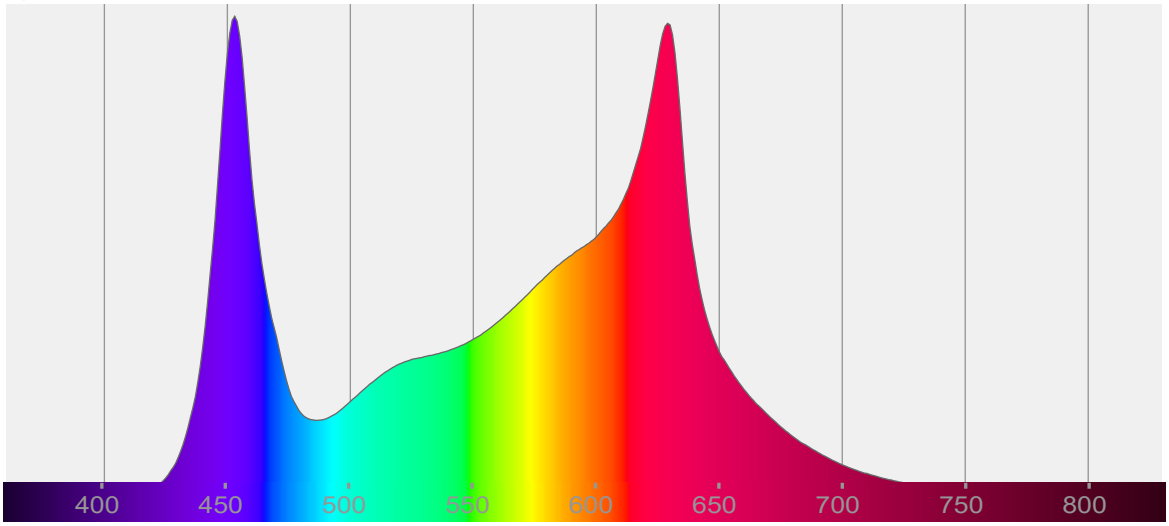
Measurements

Total Lumens: 11181 lm
Peak Intensity: 4712 cd
Fixture Efficacy: 68 lm/W

Correlated Color Temperature: 3190K
Δuv: -0.0352

CRI: 85.0 CRI R9 Value: 90.9
CQS: 83.4
TLCI: 77
TM-30-18 Rf: 85.9
TM-30-18 Rg: 110.0
1st Dominant Wavelength: 453 nM
2nd Dominant Wavelength: 629 nM

Spectral Distribution



Tested Color

3190 K
CIE 1931 Coordinates:
X: 0.385 Y: 0.311

Color Temperature

3190 K

Light Quality

CRI: 85.0

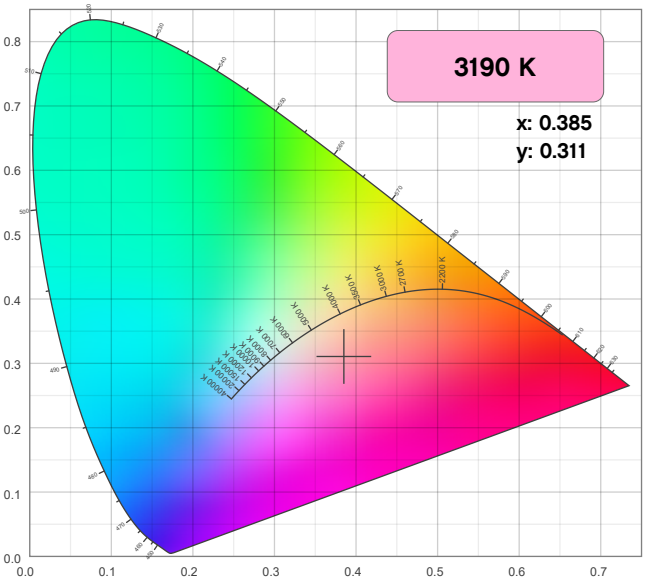
Notes:

Chromaticity Report

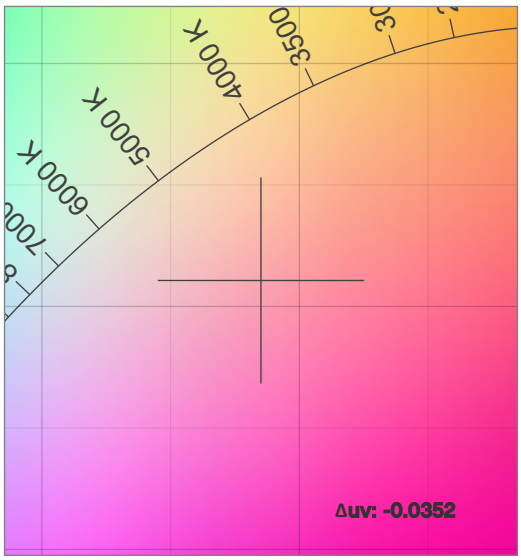
onAir IP Panel 1: Light Filter - 3200K

Chromaticity

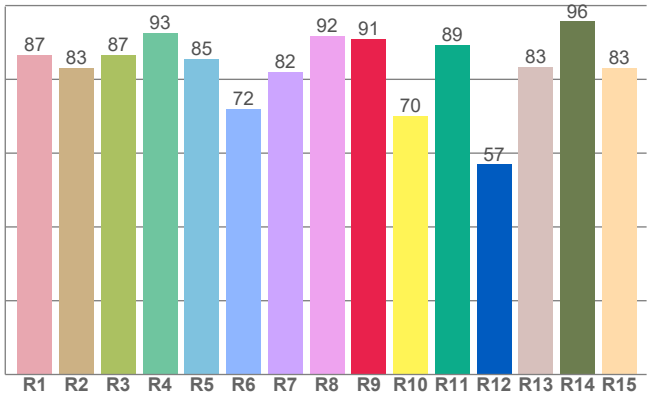
CIE 1931



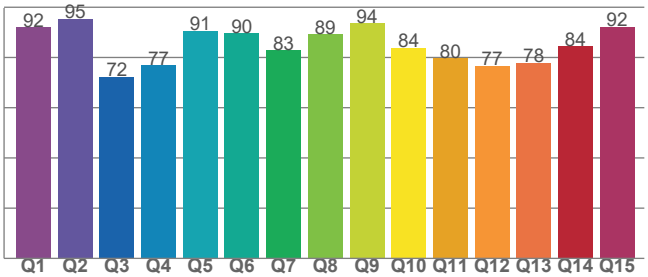
CIE 1931 - Zoom



CRI: 85.0 (R1-R8)



CQS: 83.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3190 K	0.385	0.311

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0352	0.311	0.259

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.0	90.9	83.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
77	85.9	110.0

Chromaticity Report

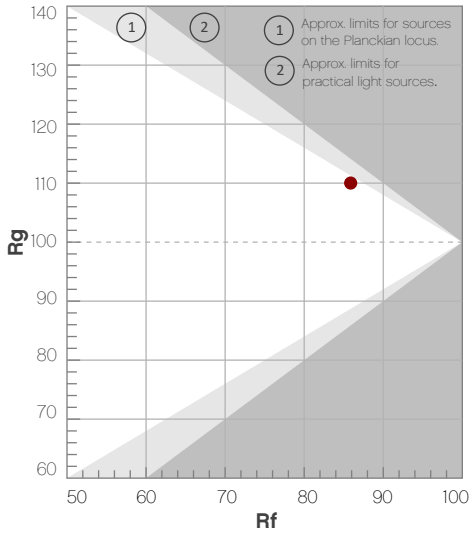
onAir IP Panel 1: Light Filter - 3200K

TM-30-18 Details

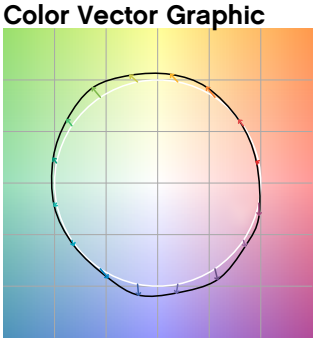
Rf 85.9
Fidelity Index (Rg)

Rg 110.0
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	91	-2%	2%
2	86	-1%	7%
3	75	4%	12%
4	84	6%	8%
5	86	8%	6%
6	82	12%	1%
7	87	7%	-2%
8	90	4%	-4%
9	91	3%	2%
10	89	1%	5%
11	82	3%	11%
12	83	10%	3%
13	88	8%	-3%
14	85	10%	-4%
15	87	5%	-4%
16	85	3%	-11%

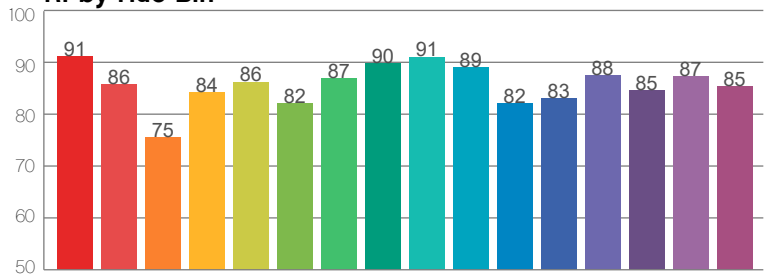


Color Vector Graphic

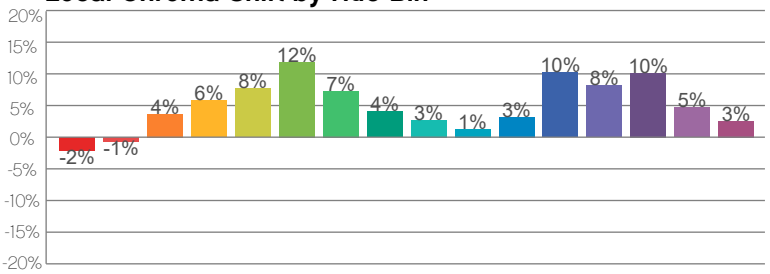


Color Distortion Graphic

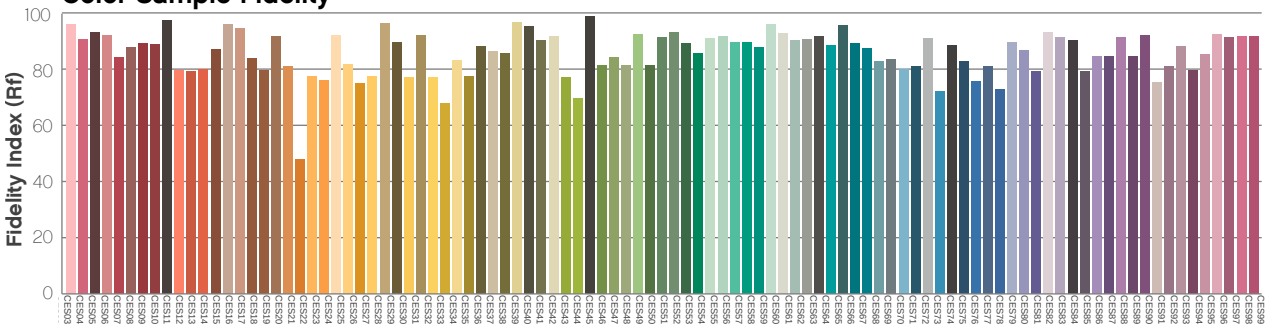
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

onAir IP Panel 1: Light Filter - 5600K

Report Summary

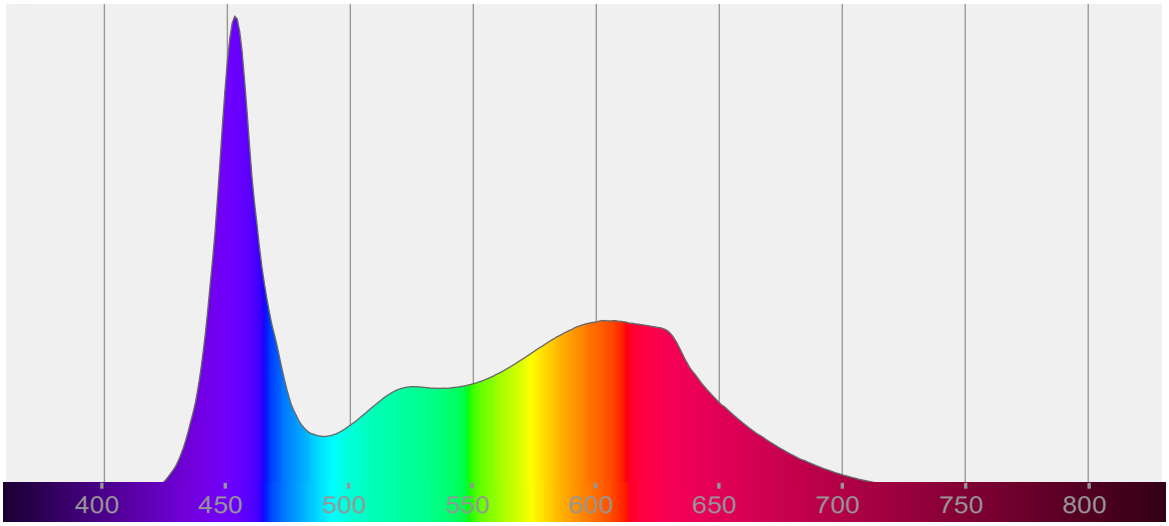
Measurements

Total Lumens: 10903 lm
Peak Intensity: 4599 cd
Fixture Efficacy: 66 lm/W

Correlated Color Temperature: 5609K
Δuv: -0.0386

CRI: 86.3 CRI R9 Value: 76.2
CQS: 78.1
TLCI: 80
TM-30-18 Rf: 81.2
TM-30-18 Rg: 106.6
1st Dominant Wavelength: 453 nM
2nd Dominant Wavelength: 603 nM

Spectral Distribution



Tested Color

5609 K
CIE 1931 Coordinates:
X: 0.331 Y: 0.279

Color Temperature

5609 K

Light Quality

CRI: 86.3

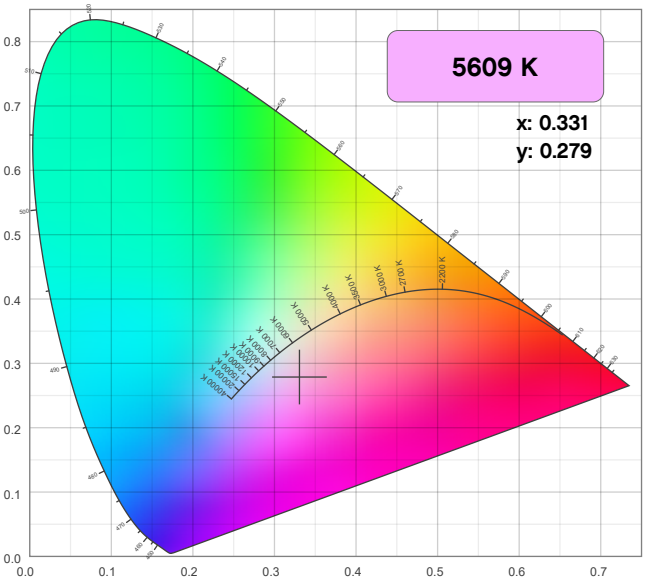
Notes:

Chromaticity Report

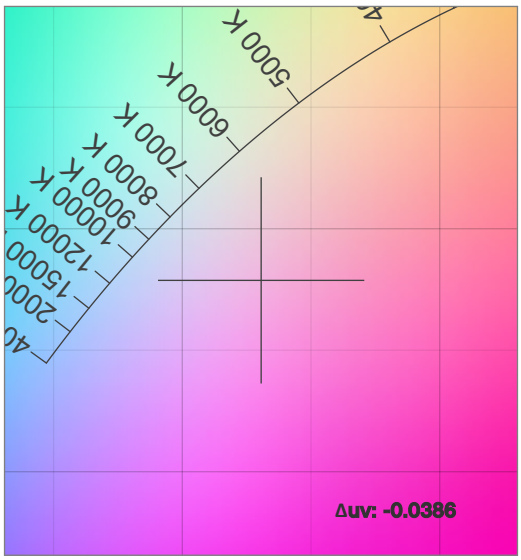
onAir IP Panel 1: Light Filter - 5600K

Chromaticity

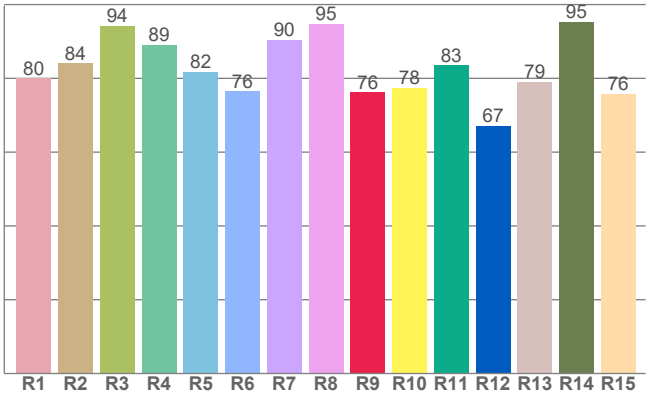
CIE 1931



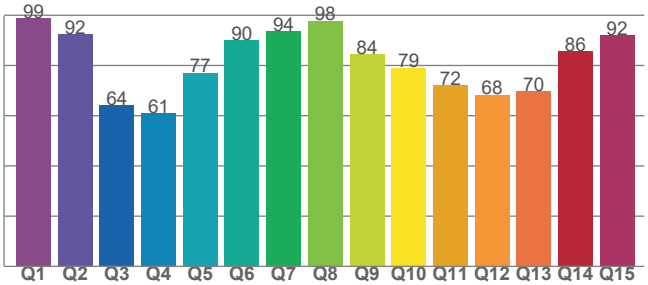
CIE 1931 - Zoom



CRI: 86.3 (R1-R8)



CQS: 78.1



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5609 K	0.331	0.279

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0386	0.279	0.233

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
86.3	76.2	78.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
80	81.2	106.6

Chromaticity Report

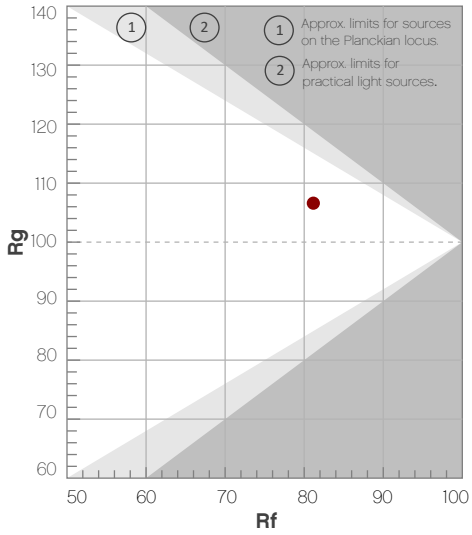
onAir IP Panel 1: Light Filter - 5600K

TM-30-18 Details

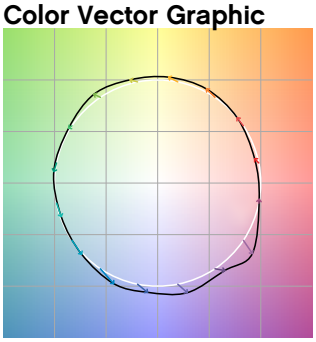
Rf 81.2
Fidelity Index (Rg)

Rg 106.6
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	84	-3%	5%
2	78	-1%	10%
3	77	2%	11%
4	82	3%	10%
5	83	3%	7%
6	89	6%	4%
7	89	1%	4%
8	81	1%	9%
9	81	-2%	14%
10	72	0%	16%
11	68	5%	19%
12	81	6%	11%
13	86	10%	7%
14	84	7%	7%
15	81	14%	-6%
16	87	0%	4%

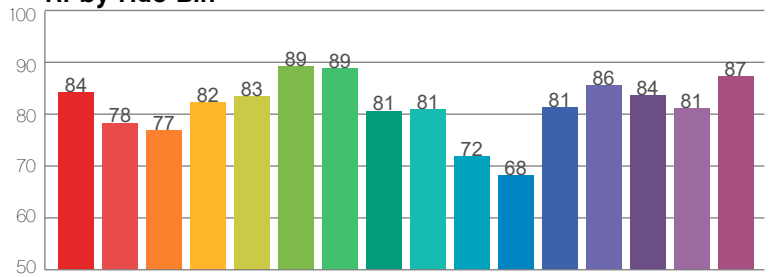


Color Vector Graphic

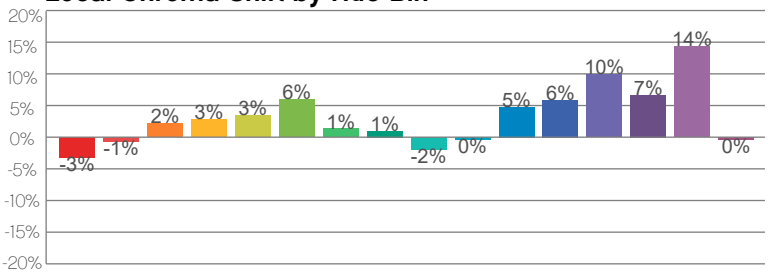


Color Distortion Graphic

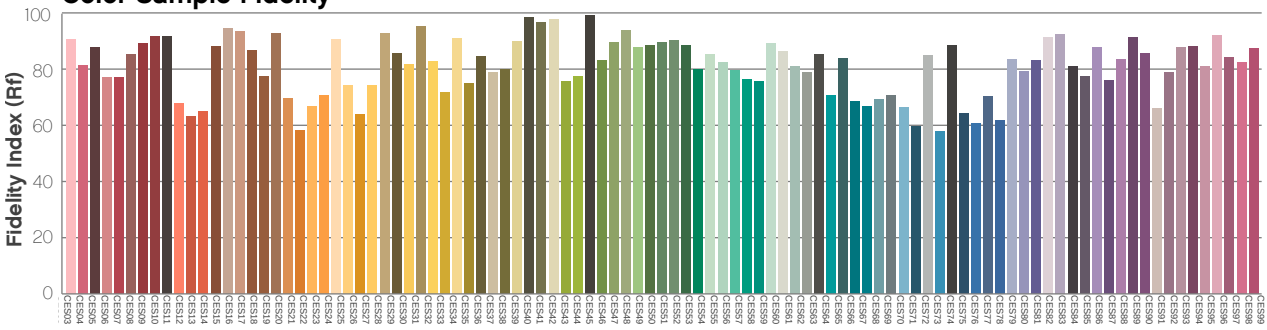
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Photometric Report

onAir IP Panel 1: Medium Filter - Full Power

Report Summary

Output

Total Lumens: 9880 lm
Peak Intensity: 3968 cd
Illuminance @ 5m: 159 lux
Fixture Efficacy: 51 lm/W

Optical

Horizontal Beam Angle (50%): 100.3°
Vertical Beam Angle (50%): 100.6°
Horizontal Field Angle (10%): 154.7°
Vertical Field Angle (10%): 155.3°
Horizontal Cutoff Angle (3%): 169.6°
Vertical Cutoff Angle (3%): 170.4°

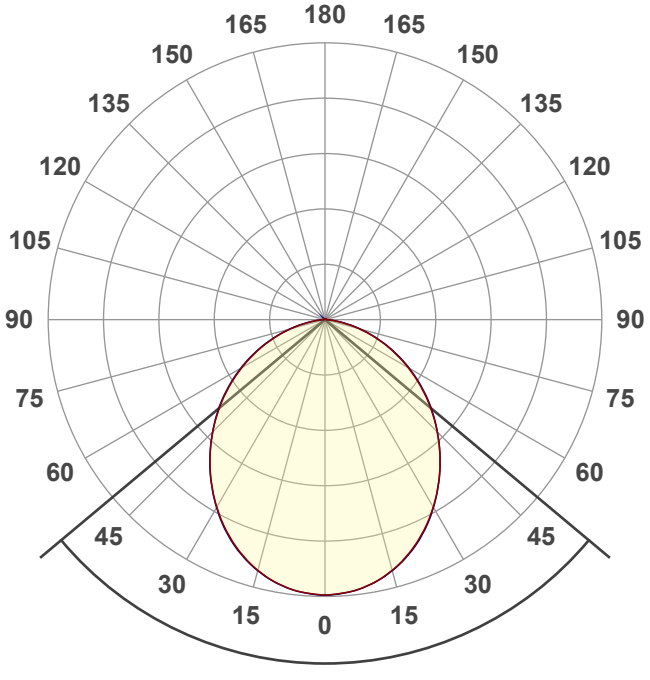
Conditions

AC Supply: 117 V, 60.1 Hz
Power: 194.32 W
Current: 1.66 A
Power Factor: 0.99

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 7/5/2022 to LM-63-2002 Standards.

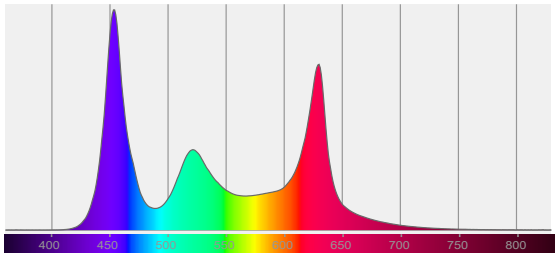
Overall Measurement

Angular Beam Distribution

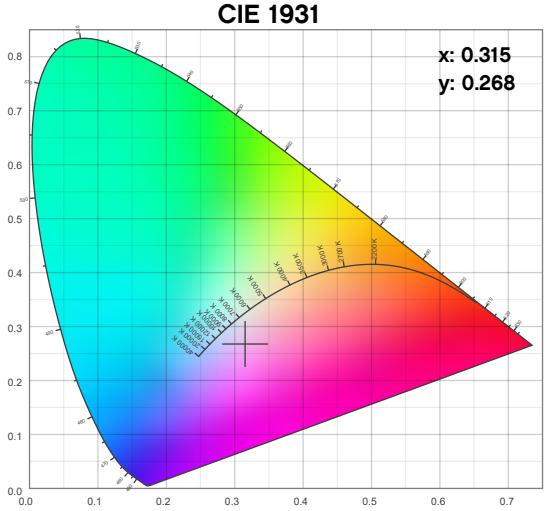


Beam Angle 100.2°

Spectral Distribution



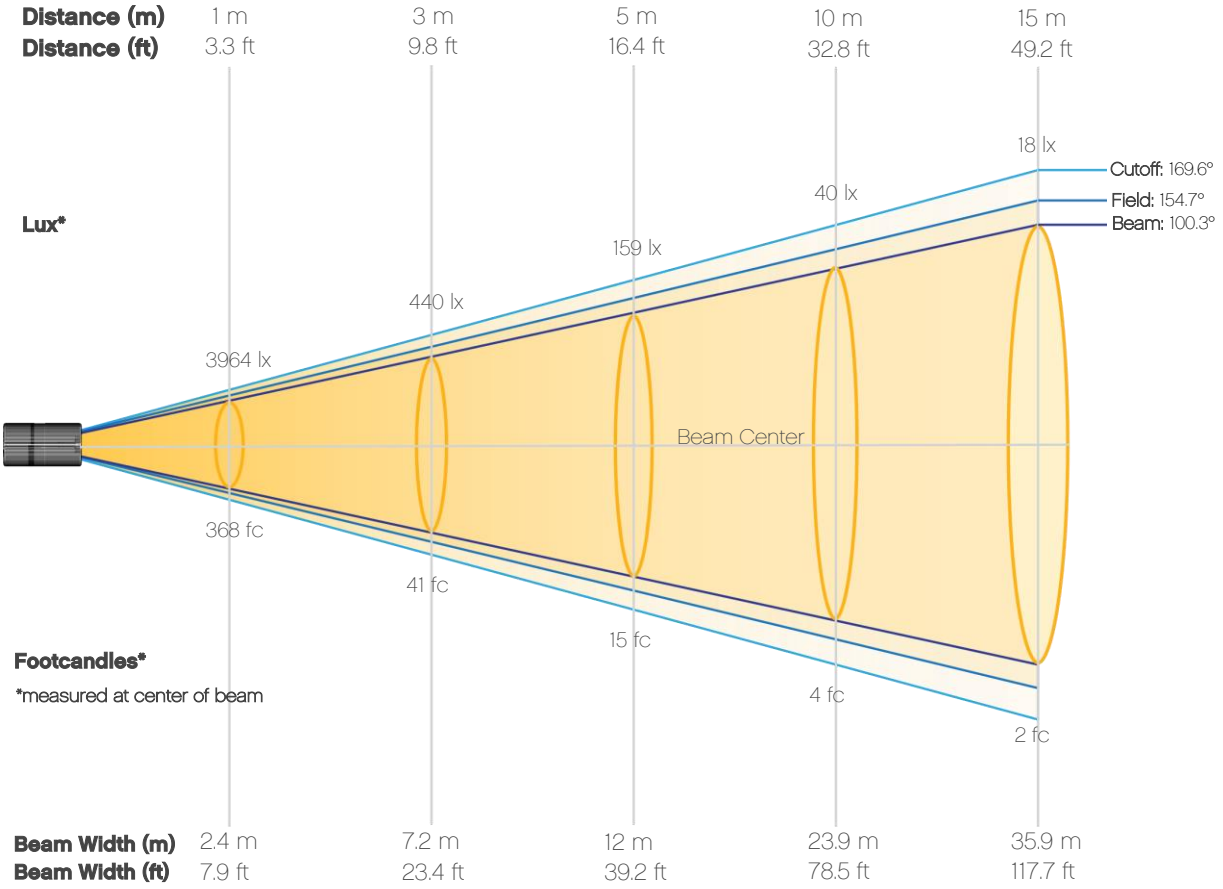
CIE 1931



Photometric Report

onAir IP Panel 1: Medium Filter - Full Power

Beam Details



Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3964	991	440	248	159	110	81	62	49	40
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	33	28	23	20	18	15	14	12	11	10
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	368	92	41	23	15	10	8	6	5	4
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	3	3	2	2	2	1	1	1	1	1

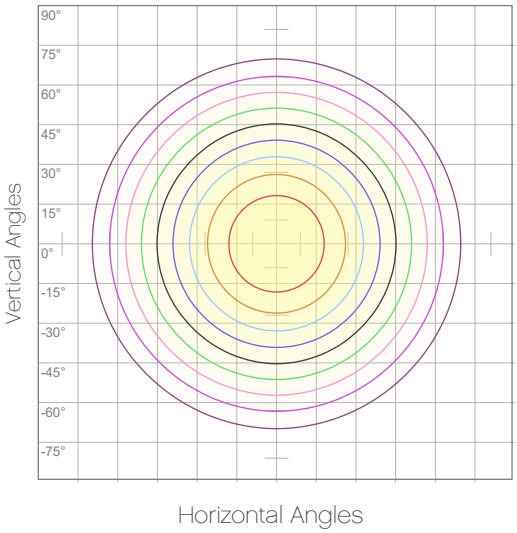
Photometric Report

onAir IP Panel 1: Medium Filter - Full Power

Candela Plot

Beam Angle (50%): 100.2°
Field Angle (10%): 154.7°
Cutoff Angle (3%): 169.6°

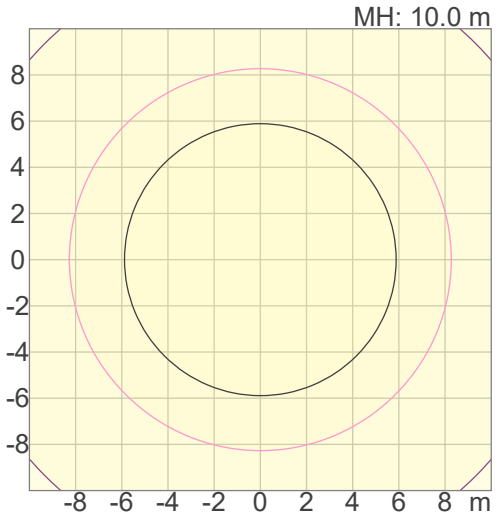
Polar Diagrams



iso-candela Diagram

10%	396 cd
20%	793 cd
30%	1189 cd
40%	1586 cd
50%	1982 cd
60%	2379 cd
70%	2775 cd
80%	3172 cd
90%	3568 cd

Conditions:
Number of c-planes: 8
Candela at center: 3964 cd



iso-illuminance Diagram

3%	1.19 lx
5%	1.98 lx
10%	3.96 lx
30%	11.9 lx
50%	19.8 lx

Conditions:
Number of c-planes: 8
Lux at center: 39.6 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

Chromaticity Report

onAir IP Panel 1: Medium Filter - 3200K

Report Summary

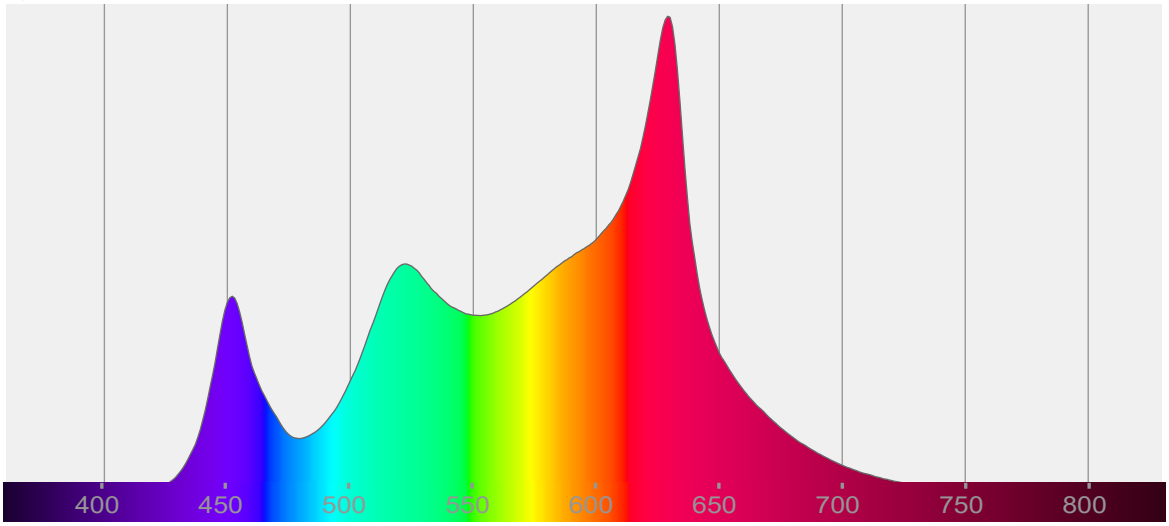
Measurements

Total Lumens: 12174 lm
Peak Intensity: 4900 cd
Fixture Efficacy: 69 lm/W

Correlated Color Temperature: 3205K
Δuv: 0.0002

CRI: 95.1 CRI R9 Value: 83.6
CQS: 93.9
TLCI: 85
TM-30-18 Rf: 92.9
TM-30-18 Rg: 103.4
1st Dominant Wavelength: 629 nM
2nd Dominant Wavelength: 522 nM

Spectral Distribution



Tested Color

3205 K
CIE 1931 Coordinates:
X: 0.423 Y: 0.399

Color Temperature

3205 K

Light Quality

CRI: 95.1

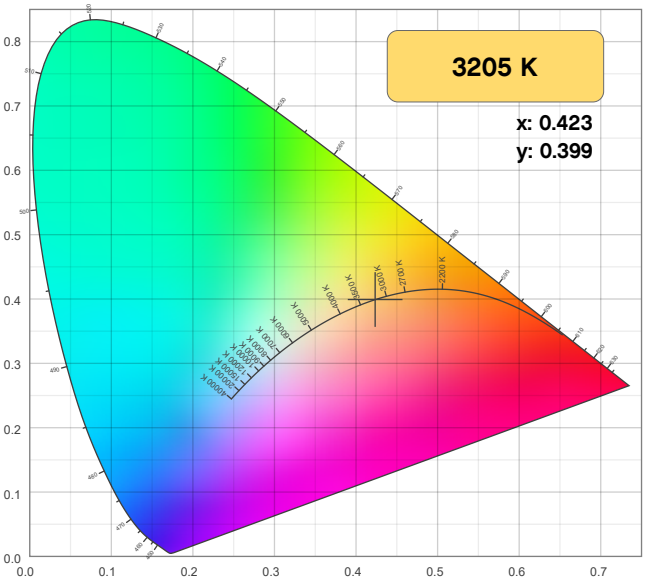
Notes:

Chromaticity Report

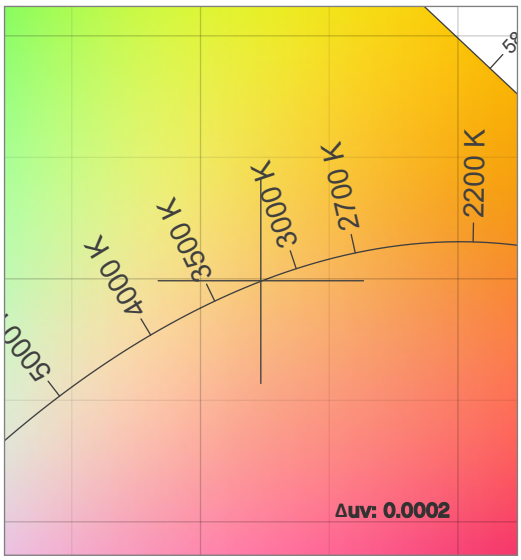
onAir IP Panel 1: Medium Filter - 3200K

Chromaticity

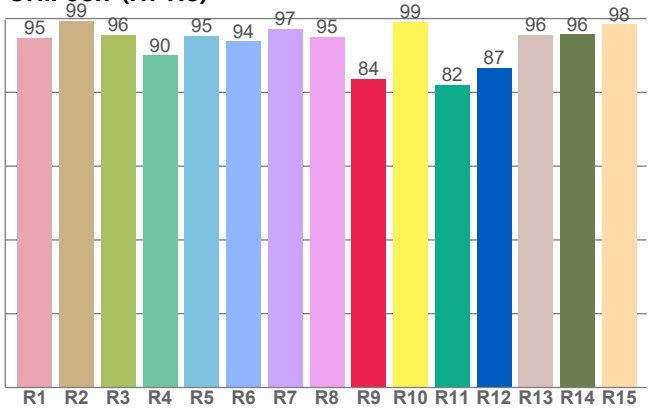
CIE 1931



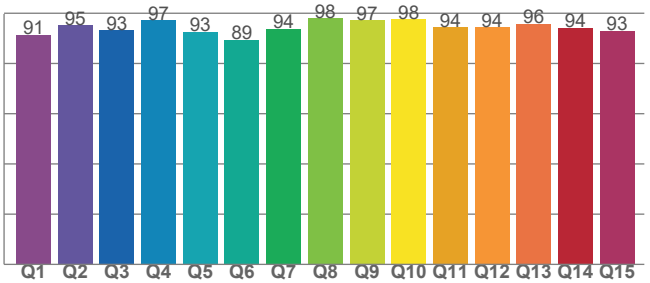
CIE 1931 - Zoom



CRI: 95.1 (R1-R8)



CQS: 93.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3205 K	0.423	0.399

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0002	0.399	0.244

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
95.1	83.6	93.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
85	92.9	103.4

Chromaticity Report

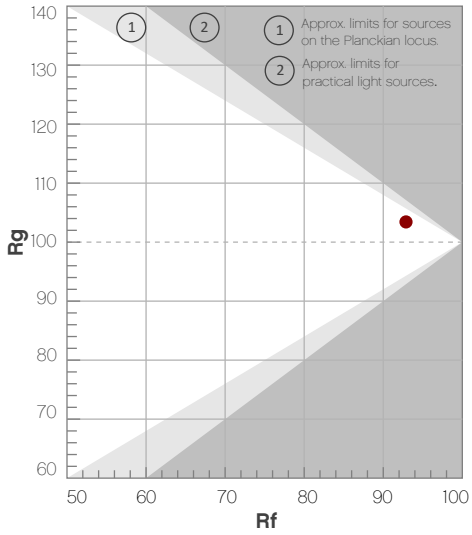
onAir IP Panel 1: Medium Filter - 3200K

TM-30-18 Details

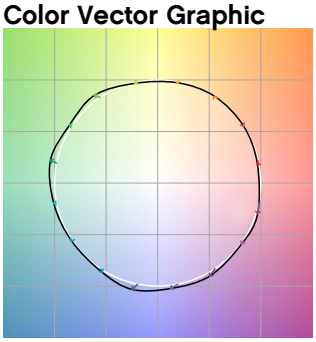
Rf 92.9
Fidelity Index (Rg)

Rg 103.4
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	94	-2%	-1%
2	96	0%	0%
3	94	1%	1%
4	97	-1%	0%
5	93	-1%	3%
6	91	5%	4%
7	93	2%	1%
8	90	6%	-1%
9	95	3%	0%
10	96	1%	0%
11	93	2%	3%
12	88	6%	-4%
13	89	3%	-8%
14	89	3%	-8%
15	90	1%	-4%
16	87	1%	-10%

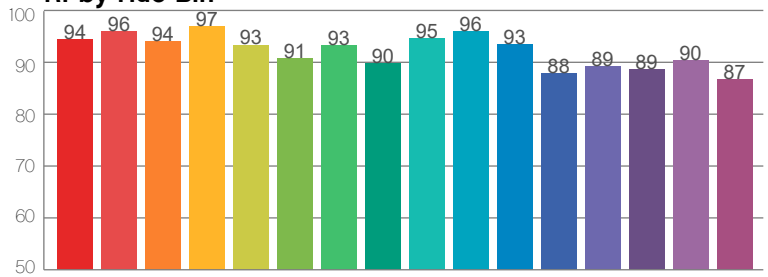


Color Vector Graphic

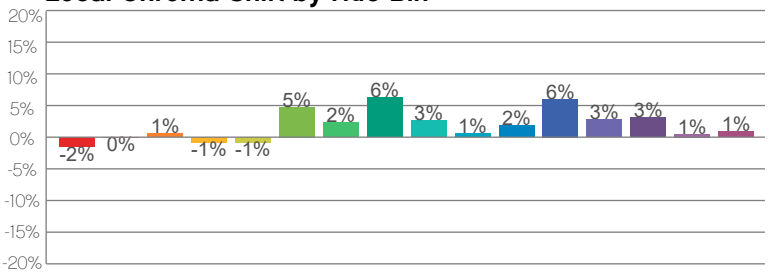


Color Distortion Graphic

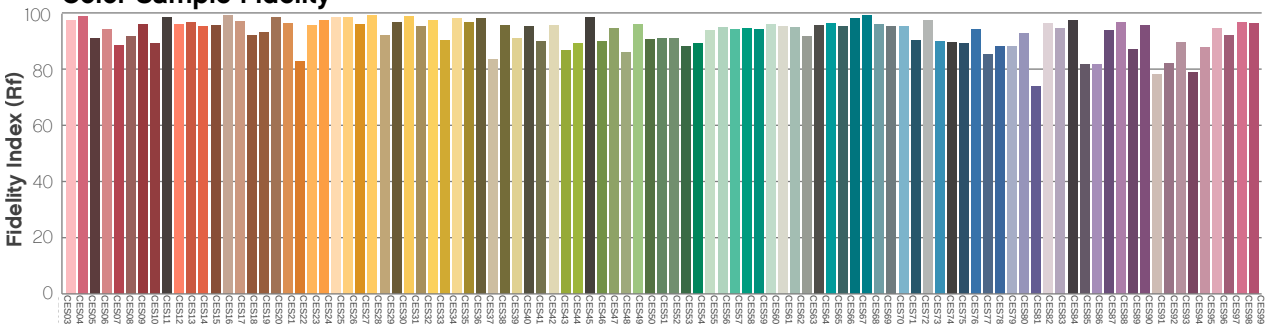
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

onAir IP Panel 1: Medium Filter - 5600K

Report Summary

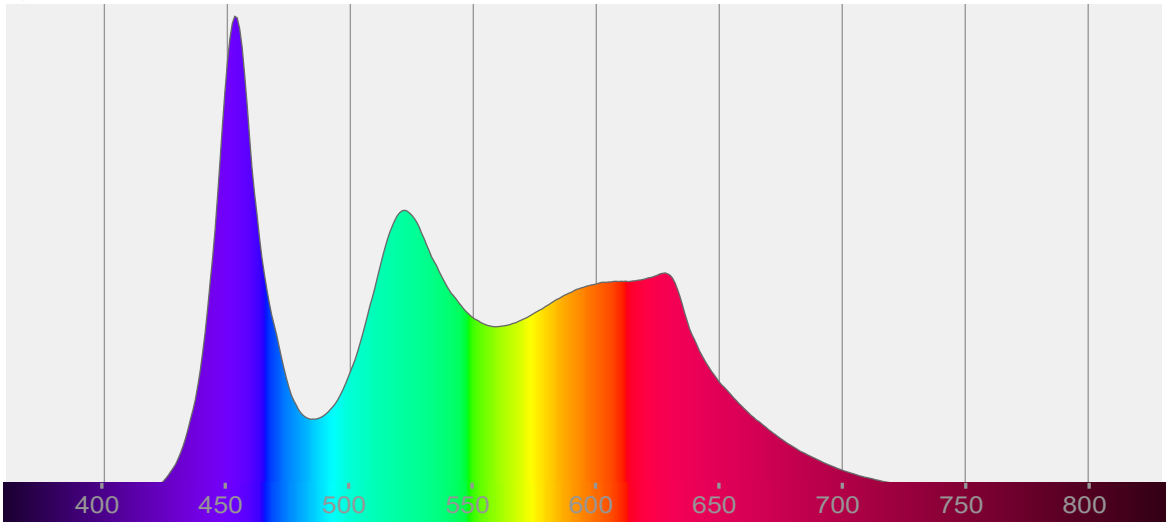
Measurements

Total Lumens: 12422 lm
Peak Intensity: 4994 cd
Fixture Efficacy: 65 lm/W

Correlated Color Temperature: 5583K
Δuv: -0.0033

CRI: 94.8 CRI R9 Value: 78.5
CQS: 92.7
TLCI: 91
TM-30-18 Rf: 90.7
TM-30-18 Rg: 103.0
1st Dominant Wavelength: 453 nM
2nd Dominant Wavelength: 522 nM

Spectral Distribution



Tested Color

5583 K

CIE 1931 Coordinates:
X: 0.331 Y: 0.339

Color Temperature

5583 K

Light Quality

CRI: 94.8

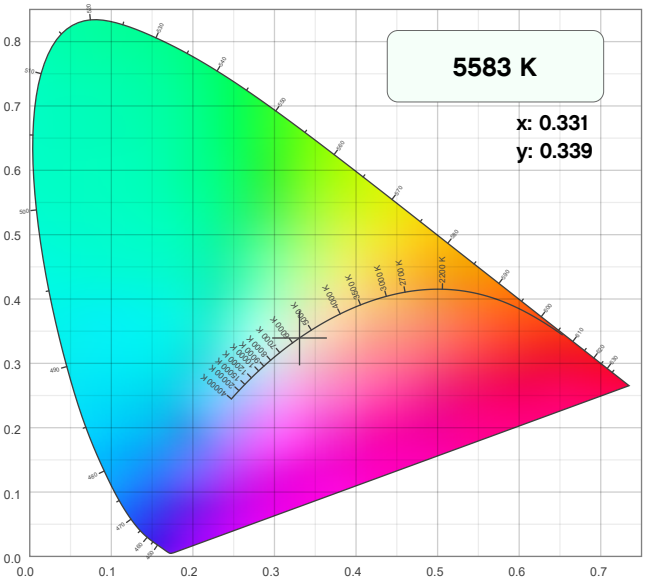
Notes:

Chromaticity Report

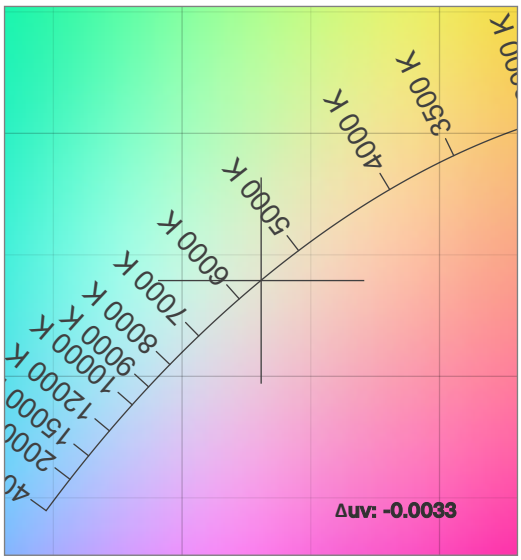
onAir IP Panel 1: Medium Filter - 5600K

Chromaticity

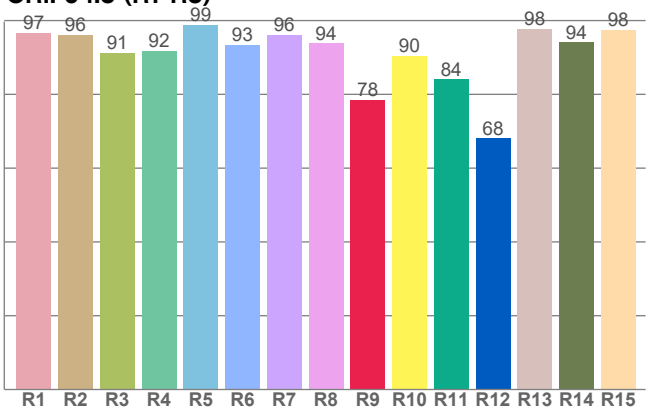
CIE 1931



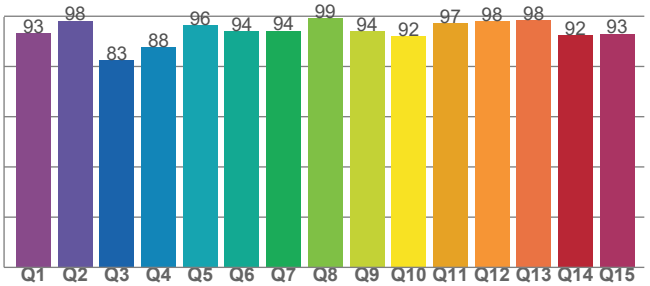
CIE 1931 - Zoom



CRI: 94.8 (R1-R8)



CQS: 92.7



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5583 K	0.331	0.339

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0033	0.339	0.206

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.8	78.5	92.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
91	90.7	103.0

Chromaticity Report

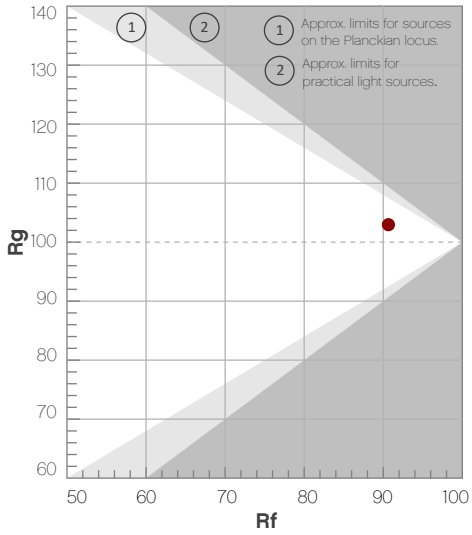
onAir IP Panel 1: Medium Filter - 5600K

TM-30-18 Details

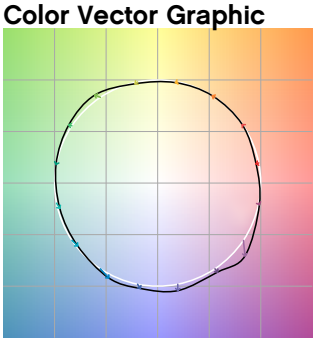
Rf 90.7
Fidelity Index (Rg)

Rg 103.0
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	92	-3%	0%
2	96	0%	2%
3	93	0%	3%
4	93	-1%	2%
5	90	-1%	3%
6	91	5%	3%
7	93	3%	1%
8	95	0%	2%
9	92	-2%	5%
10	87	-2%	8%
11	81	3%	12%
12	92	4%	3%
13	91	6%	-1%
14	91	4%	0%
15	82	10%	-12%
16	96	1%	-1%

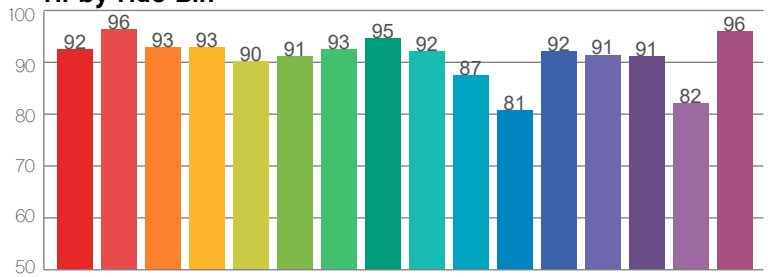


Color Vector Graphic

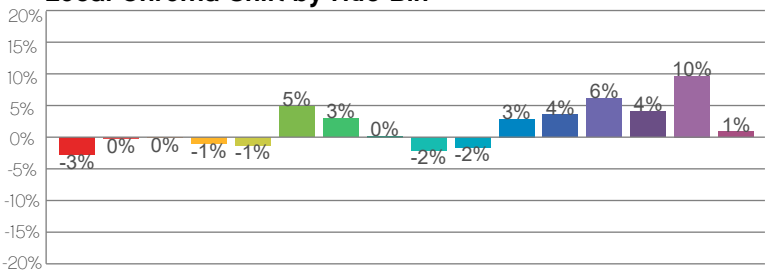


Color Distortion Graphic

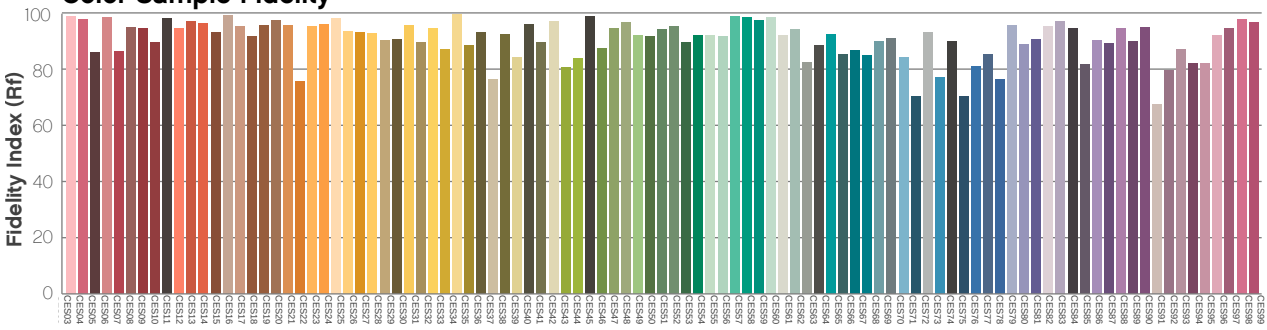
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Photometric Report

onAir IP Panel 1: Heavy Filter - Full Power

Report Summary

Output

Total Lumens: 7270 lm
Peak Intensity: 2584 cd
Illuminance @ 5m: 103 lux
Fixture Efficacy: 49 lm/W

Optical

Horizontal Beam Angle (50%): 111.7°
Vertical Beam Angle (50%): 112.2°
Horizontal Field Angle (10%): 158°
Vertical Field Angle (10%): 158.9°
Horizontal Cutoff Angle (3%): 171.1°
Vertical Cutoff Angle (3%): 171.5°

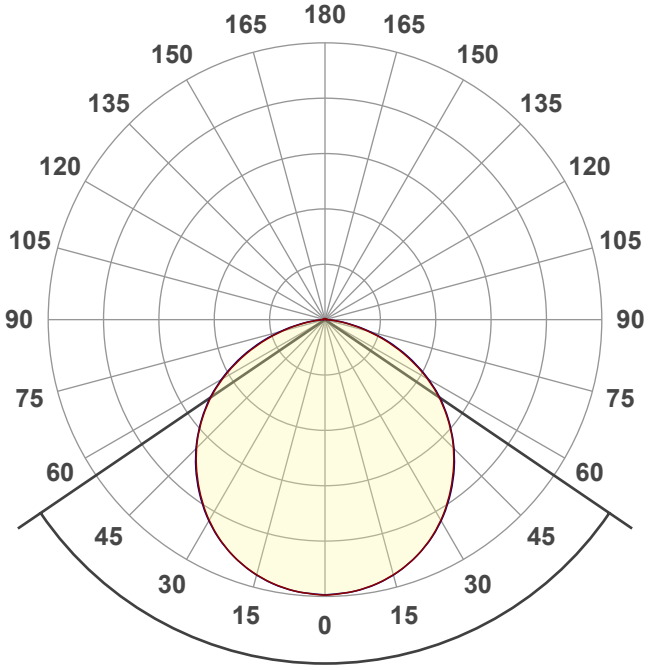
Conditions

AC Supply: 119 V, 60 Hz
Power: 150.42 W
Current: 1.26 A
Power Factor: 0.99

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 7/5/2022 to LM-63-2002 Standards.

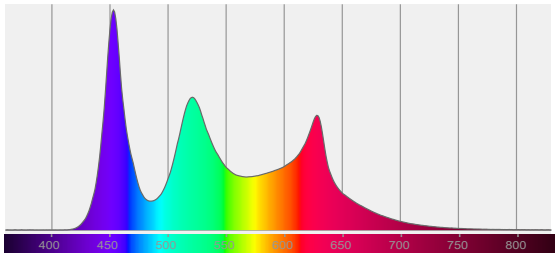
Overall Measurement

Angular Beam Distribution

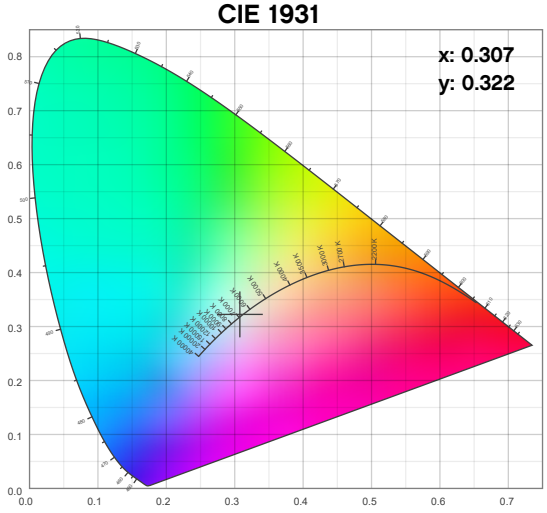


Beam Angle 111.6°

Spectral Distribution



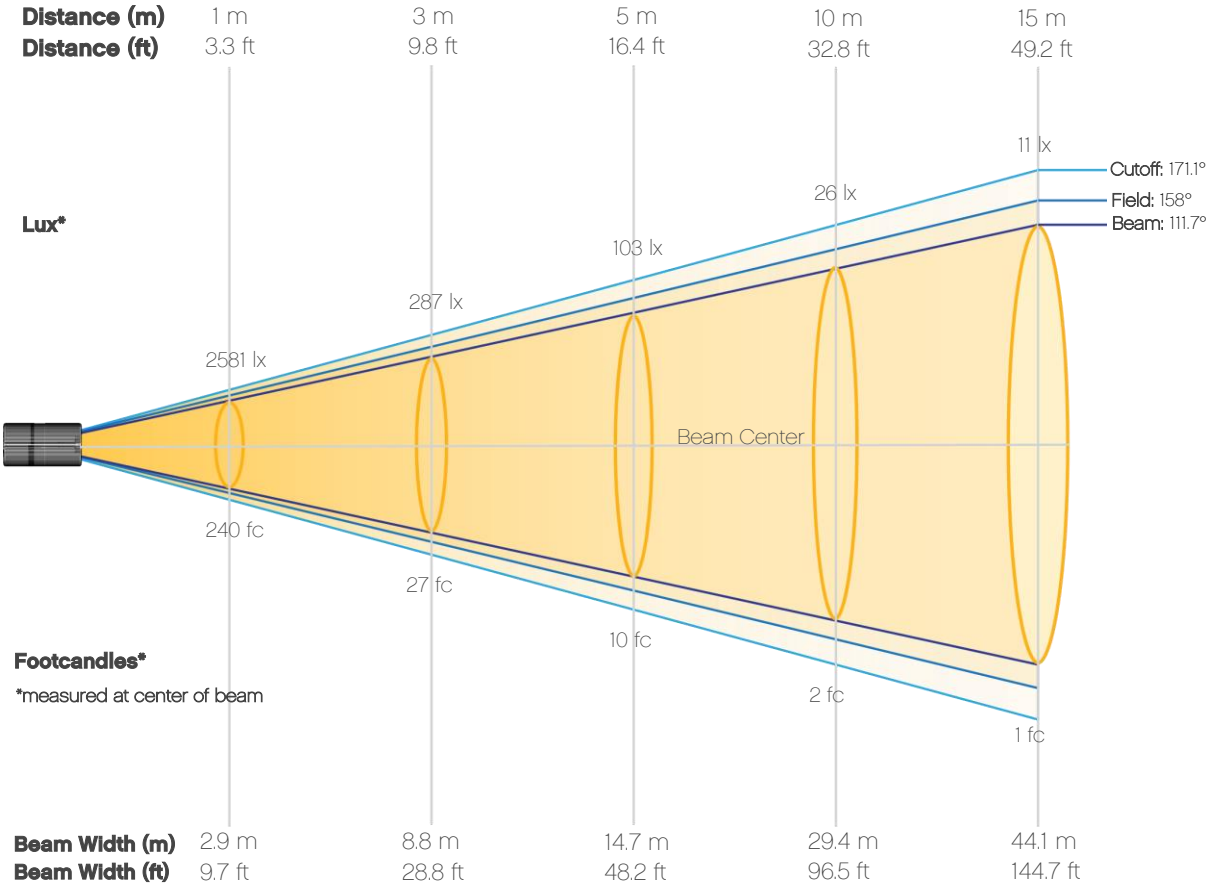
CIE 1931



Photometric Report

onAir IP Panel 1: Heavy Filter - Full Power

Beam Details



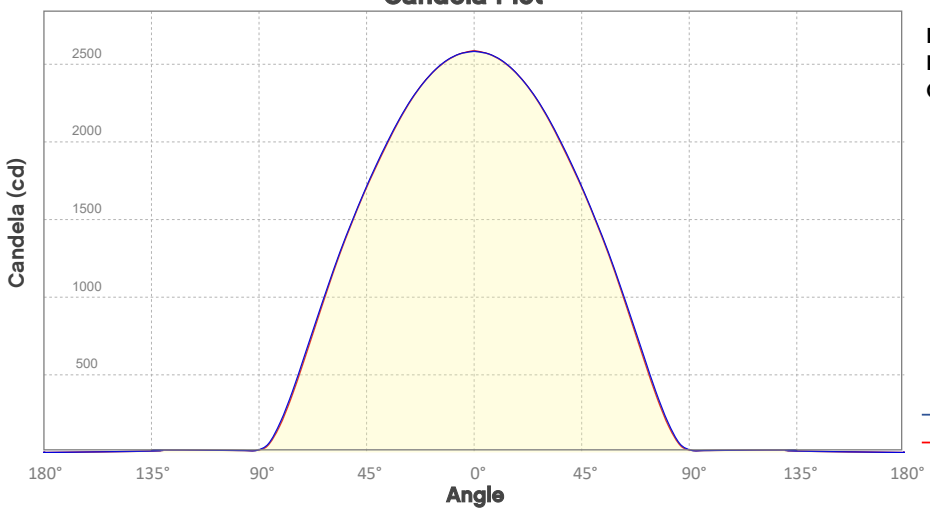
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	2581	645	287	161	103	72	53	40	32	26
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	21	18	15	13	11	10	9	8	7	6
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	240	60	27	15	10	7	5	4	3	2
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	2	2	1	1	1	1	1	1	1	1

Photometric Report

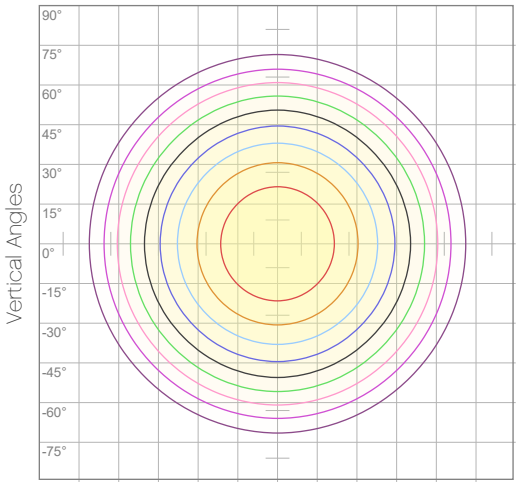
onAir IP Panel 1: Heavy Filter - Full Power

Candela Plot



Beam Angle (50%): 111.6°
Field Angle (10%): 158.2°
Cutoff Angle (3%): 171°

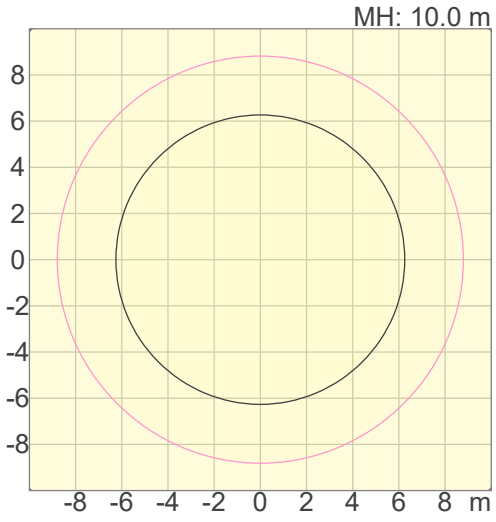
Polar Diagrams



iso-candela Diagram

	10%	258 cd
	20%	516 cd
	30%	774 cd
	40%	1032 cd
	50%	1291 cd
	60%	1549 cd
	70%	1807 cd
	80%	2065 cd
	90%	2323 cd

Conditions:
Number of c-planes: 8
Candela at center: 2581 cd



iso-illuminance Diagram

	3%	0.774 lx
	5%	1.29 lx
	10%	2.58 lx
	30%	7.74 lx
	50%	12.9 lx

Conditions:
Number of c-planes: 8
Lux at center: 25.8 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

Chromaticity Report

onAir IP Panel 1: Heavy Filter - 3200K

Report Summary

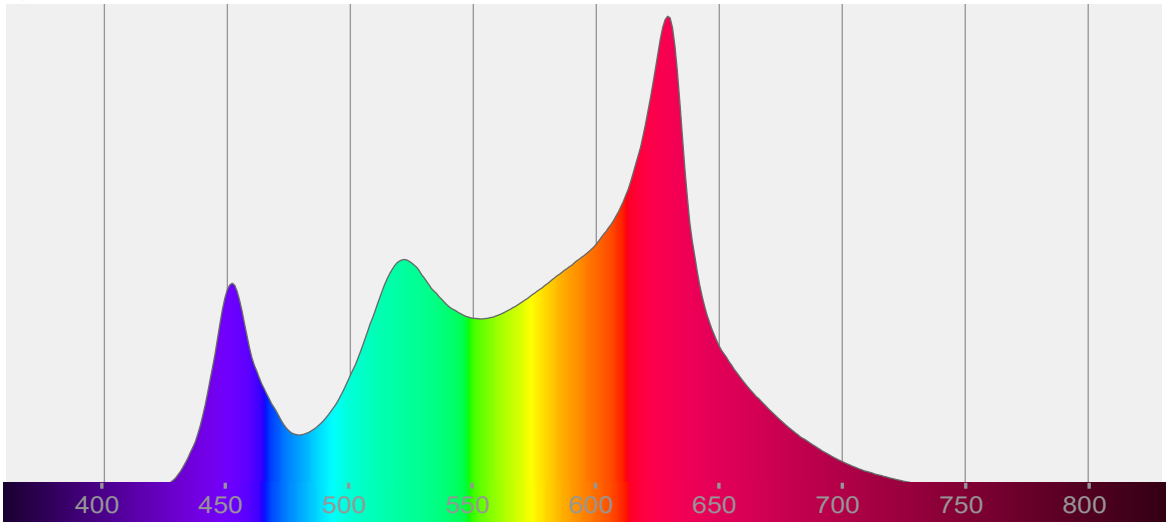
Measurements

Total Lumens: 10125 lm
Peak Intensity: 3604 cd
Fixture Efficacy: 58 lm/W

Correlated Color Temperature: 3252K
Δuv: -0.0011

CRI: 94.1 CRI R9 Value: 92.7
CQS: 93.9
TLCI: 86
TM-30-18 Rf: 92.5
TM-30-18 Rg: 104.3
1st Dominant Wavelength: 629 nM
2nd Dominant Wavelength: 522 nM

Spectral Distribution



Tested Color

3252 K
CIE 1931 Coordinates:
X: 0.419 Y: 0.395

Color Temperature

3252 K

Light Quality

CRI: 94.1

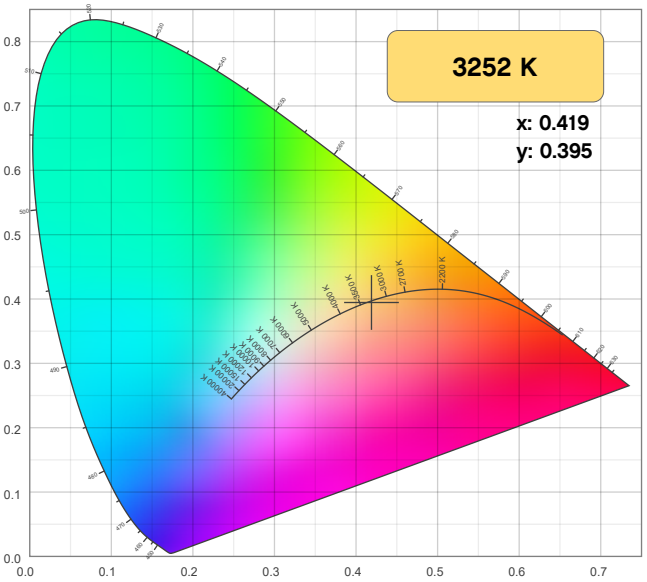
Notes:

Chromaticity Report

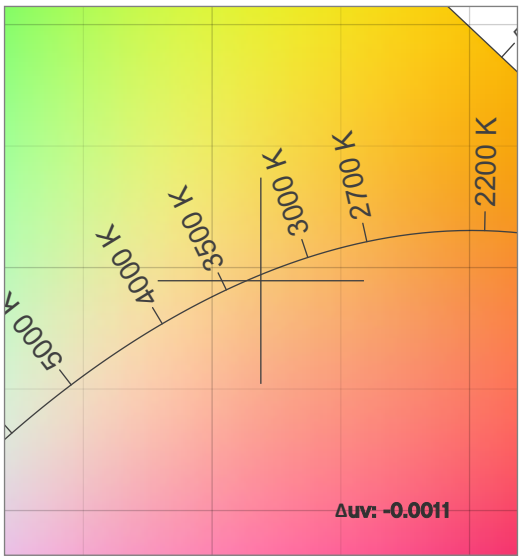
onAir IP Panel 1: Heavy Filter - 3200K

Chromaticity

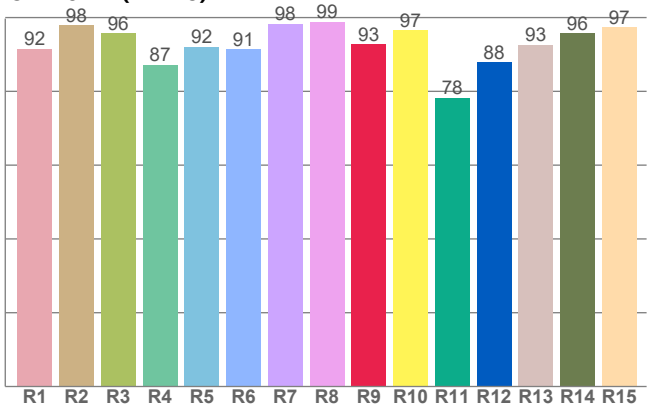
CIE 1931



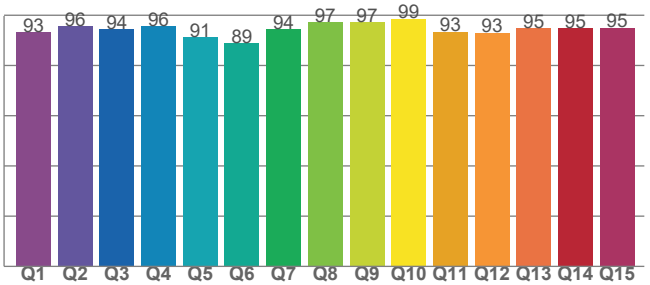
CIE 1931 - Zoom



CRI: 94.1 (R1-R8)



CQS: 93.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3252 K	0.419	0.395

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0011	0.395	0.243

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.1	92.7	93.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
86	92.5	104.3

Chromaticity Report

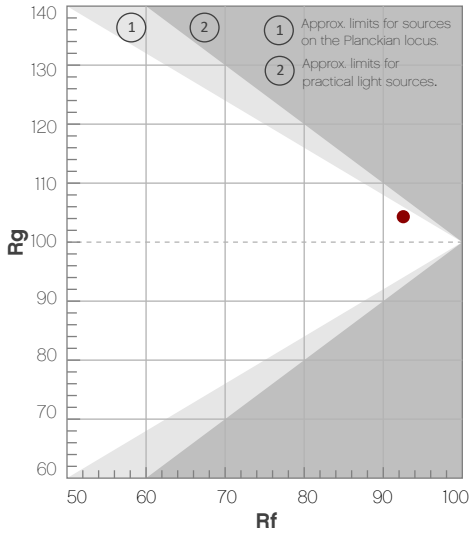
onAir IP Panel 1: Heavy Filter - 3200K

TM-30-18 Details

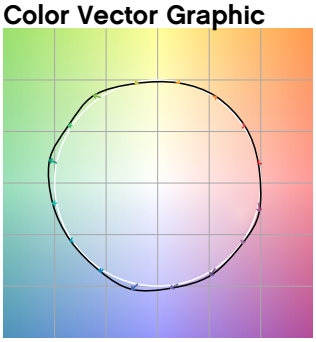
Rf 92.5
Fidelity Index (Rg)

Rg 104.3
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	94	-1%	0%
2	95	1%	-1%
3	93	1%	0%
4	96	-1%	-1%
5	93	-1%	2%
6	90	5%	4%
7	92	3%	2%
8	88	7%	-1%
9	93	4%	0%
10	95	1%	0%
11	94	2%	2%
12	88	6%	-4%
13	90	3%	-7%
14	89	3%	-7%
15	90	1%	-3%
16	89	2%	-8%

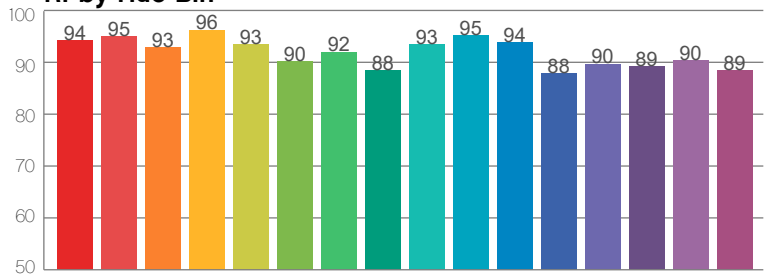


Color Vector Graphic

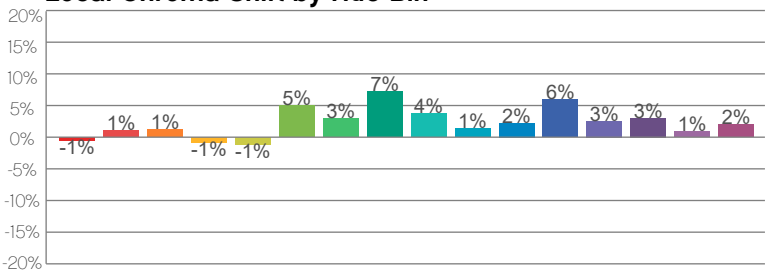


Color Distortion Graphic

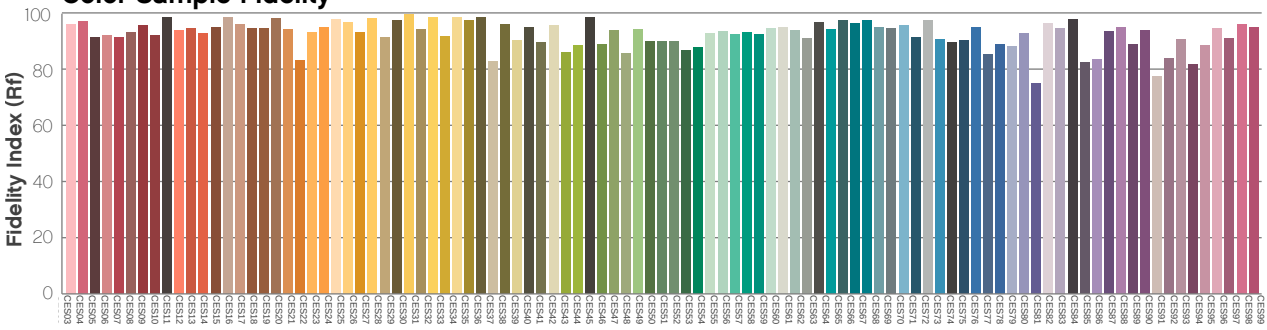
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

onAir IP Panel 1: Heavy Filter - 5600K

Report Summary

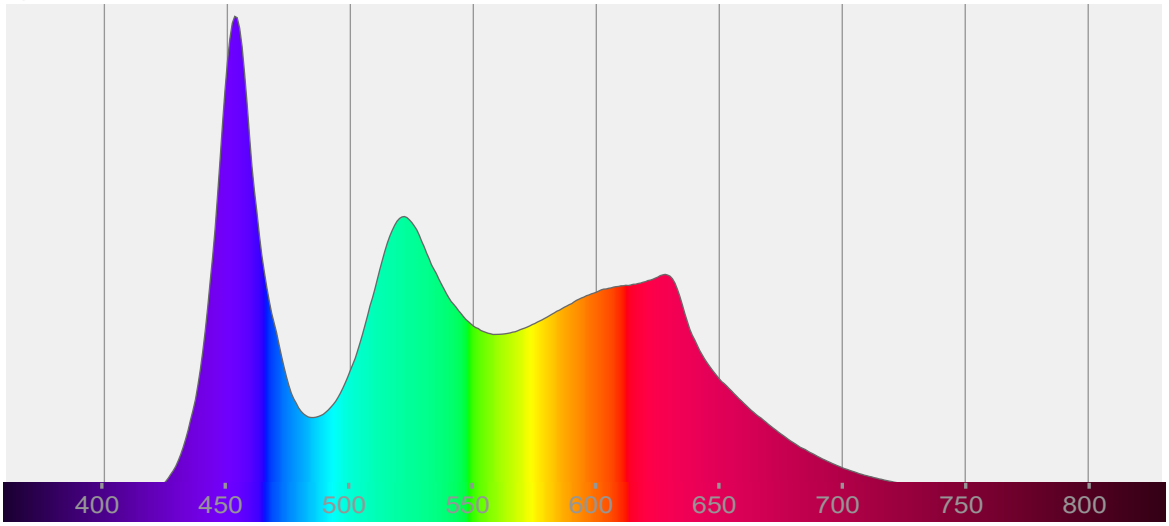
Measurements

Total Lumens: 10409 lm
Peak Intensity: 3702 cd
Fixture Efficacy: 54 lm/W

Correlated Color Temperature: 5695K
Δuv: -0.0046

CRI: 94.8 CRI R9 Value: 91.1
CQS: 93.7
TLCI: 93
TM-30-18 Rf: 91.1
TM-30-18 Rg: 103.9
1st Dominant Wavelength: 453 nM
2nd Dominant Wavelength: 522 nM

Spectral Distribution



Tested Color

5695 K

CIE 1931 Coordinates:
X: 0.328 Y: 0.335

Color Temperature

5695 K

Light Quality

CRI: 94.8

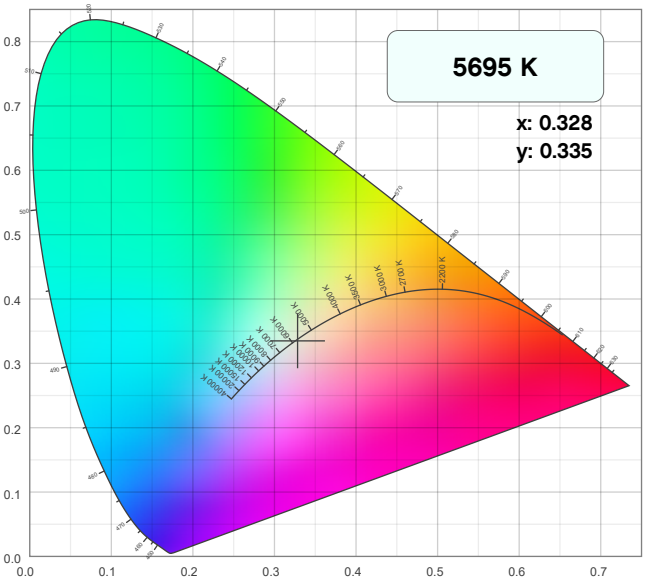
Notes:

Chromaticity Report

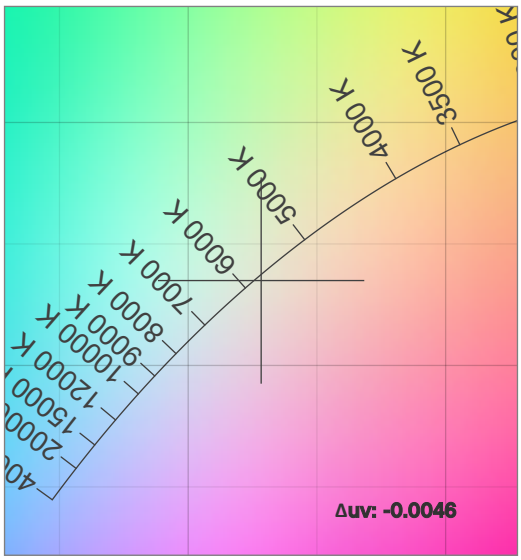
onAir IP Panel 1: Heavy Filter - 5600K

Chromaticity

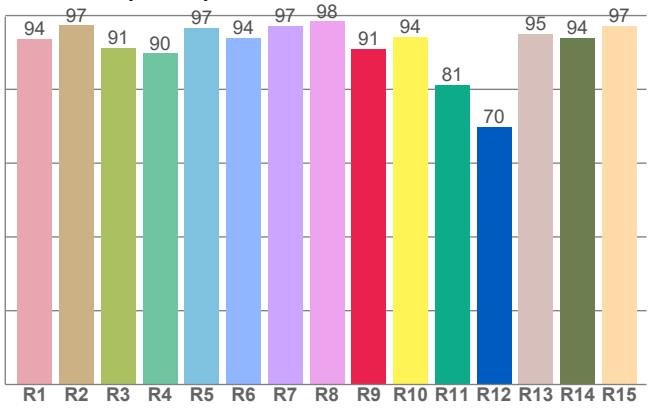
CIE 1931



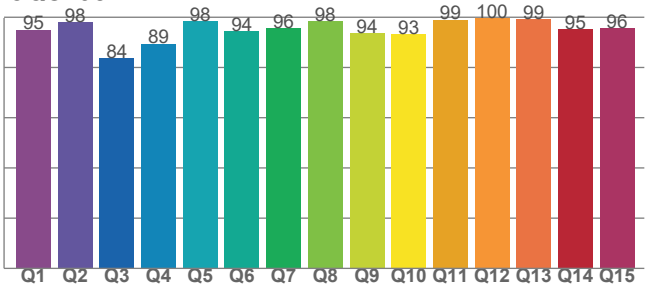
CIE 1931 - Zoom



CRI: 94.8 (R1-R8)



CQS: 93.7



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5695 K	0.328	0.335

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0046	0.335	0.206

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.8	91.1	93.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
93	91.1	103.9

Chromaticity Report

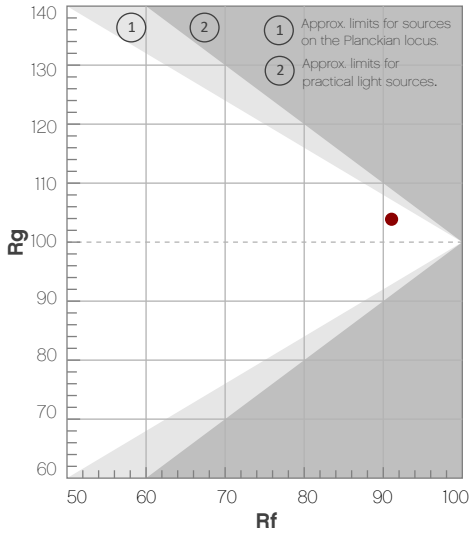
onAir IP Panel 1: Heavy Filter - 5600K

TM-30-18 Details

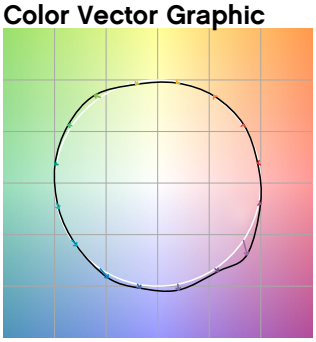
Rf 91.1
Fidelity Index (Rg)

Rg 103.9
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	94	-1%	0%
2	96	1%	1%
3	94	1%	2%
4	94	-1%	1%
5	90	-2%	2%
6	91	5%	4%
7	92	3%	2%
8	94	1%	2%
9	92	-1%	5%
10	89	-1%	7%
11	82	3%	11%
12	93	3%	3%
13	92	6%	0%
14	91	4%	2%
15	83	11%	-10%
16	95	2%	0%

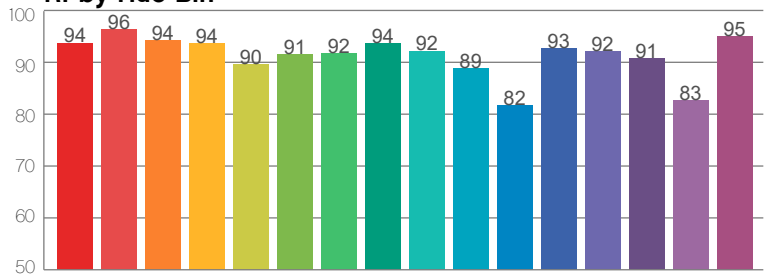


Color Vector Graphic

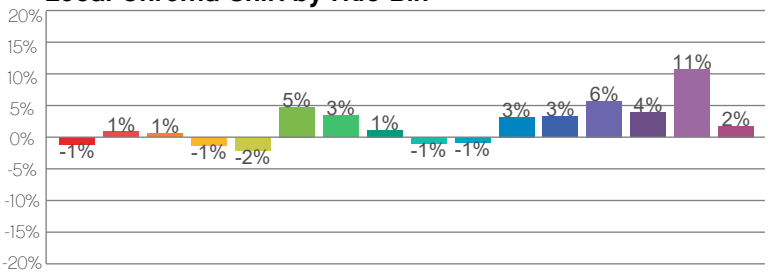


Color Distortion Graphic

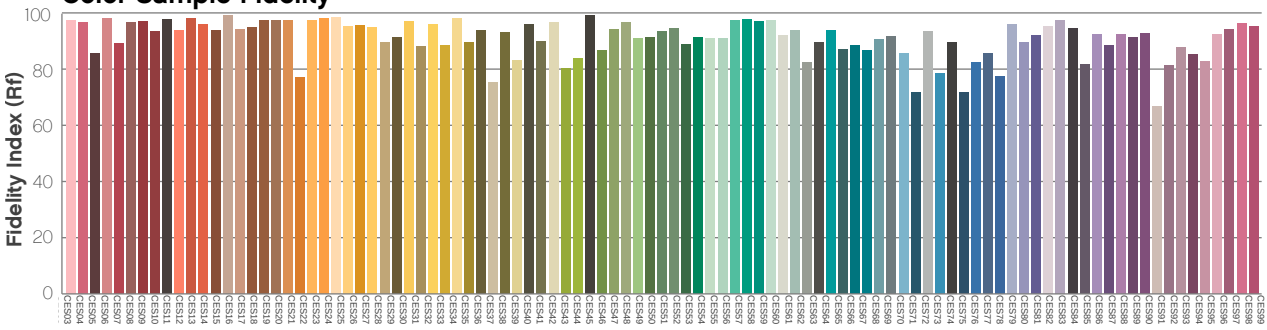
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Photometric Report

onAir IP Panel 1: Intensifier Filter - Full Power

Report Summary

Output

Total Lumens: 6492 lm
Peak Intensity: 5011 cd
Illuminance @ 5m: 200 lux
Fixture Efficacy: 44 lm/W

Optical

Horizontal Beam Angle (50%): 63.1°
Vertical Beam Angle (50%): 64.1°
Horizontal Field Angle (10%): 112.7°
Vertical Field Angle (10%): 114°
Horizontal Cutoff Angle (3%): 160.5°
Vertical Cutoff Angle (3%): 160°

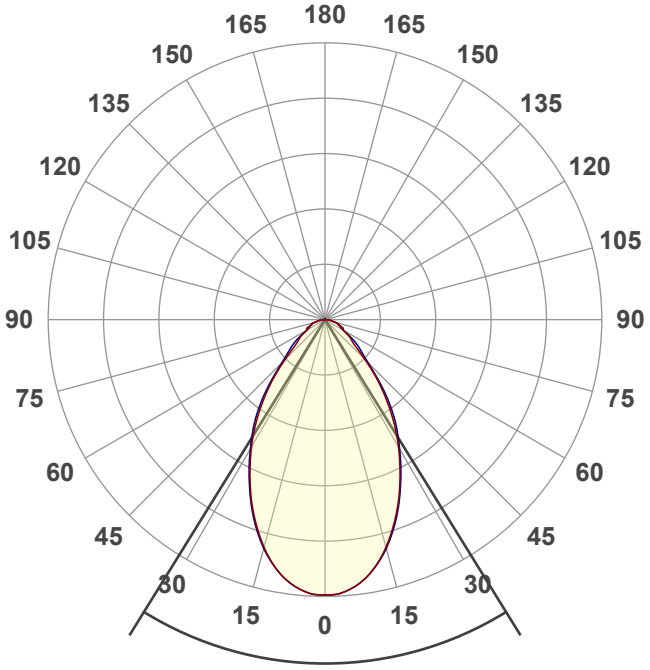
Conditions

AC Supply: 120 V, 60 Hz
Power: 148.77 W
Current: 1.24 A
Power Factor: 0.99

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 7/5/2022 to LM-63-2002 Standards.

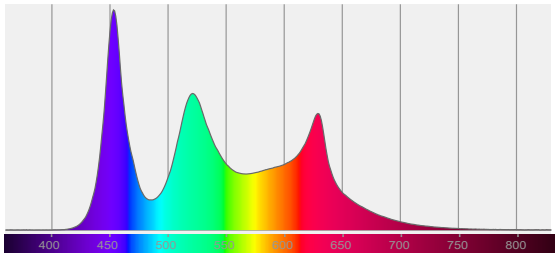
Overall Measurement

Angular Beam Distribution

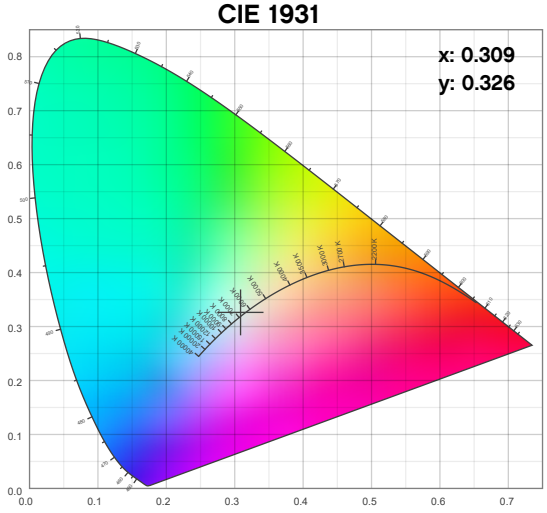


Beam Angle 63.5°

Spectral Distribution



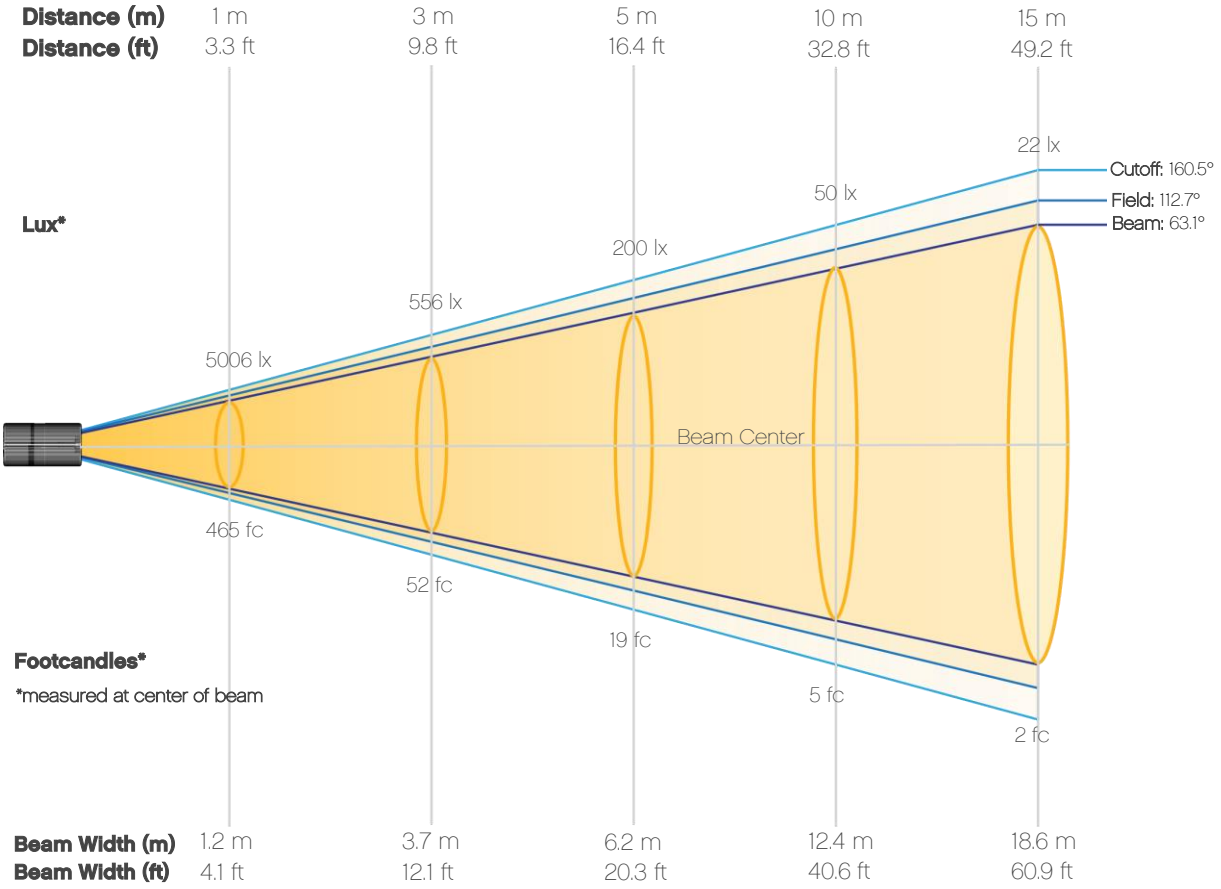
CIE 1931



Photometric Report

onAir IP Panel 1: Intensifier Filter - Full Power

Beam Details



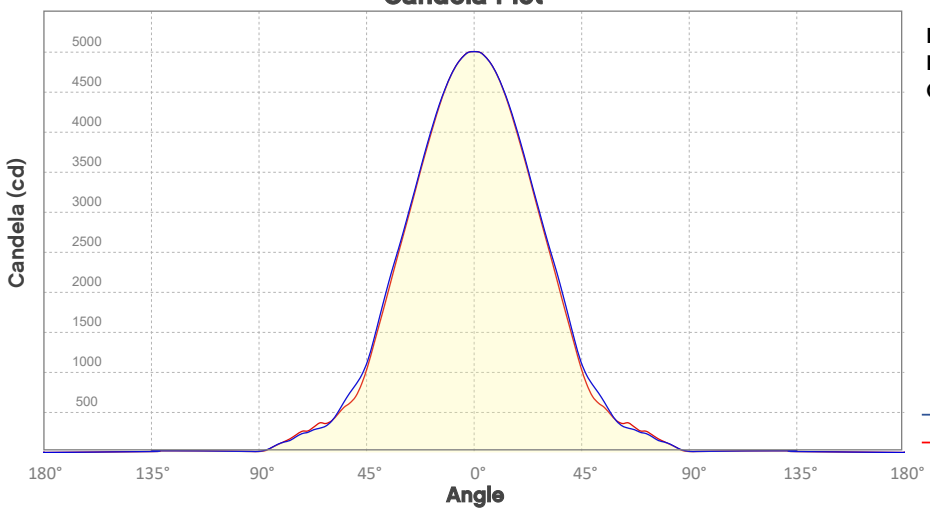
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	5006	1251	556	313	200	139	102	78	62	50
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	41	35	30	26	22	20	17	15	14	13
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	465	116	52	29	19	13	9	7	6	5
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	4	3	3	2	2	2	2	1	1	1

Photometric Report

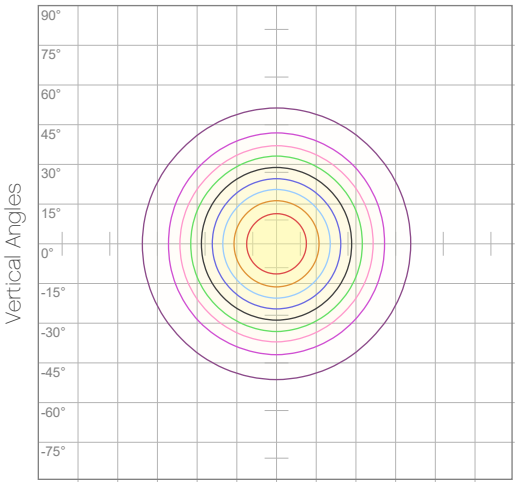
onAir IP Panel 1: Intensifier Filter - Full Power

Candela Plot



Beam Angle (50%): 63.5°
Field Angle (10%): 113°
Cutoff Angle (3%): 159.5°

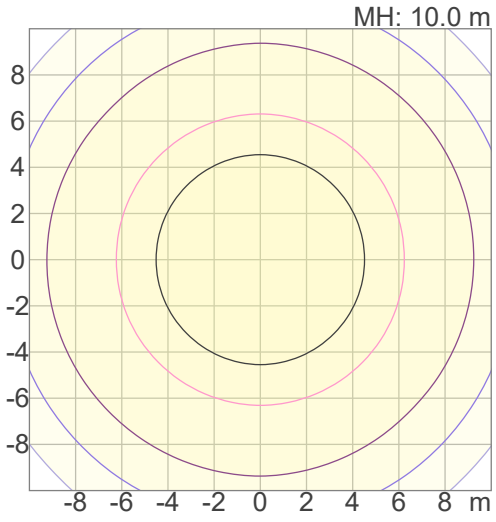
Polar Diagrams



iso-candela Diagram

10%	501 cd
20%	1001 cd
30%	1502 cd
40%	2002 cd
50%	2503 cd
60%	3004 cd
70%	3504 cd
80%	4005 cd
90%	4505 cd

Conditions:
Number of c-planes: 8
Candela at center: 5006 cd



iso-illuminance Diagram

3%	1.50 lx
5%	2.50 lx
10%	5.01 lx
30%	15.0 lx
50%	25.0 lx

Conditions:
Number of c-planes: 8
Lux at center: 50.1 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

Chromaticity Report

onAir IP Panel 1: Intensifier Filter - 3200K

Report Summary

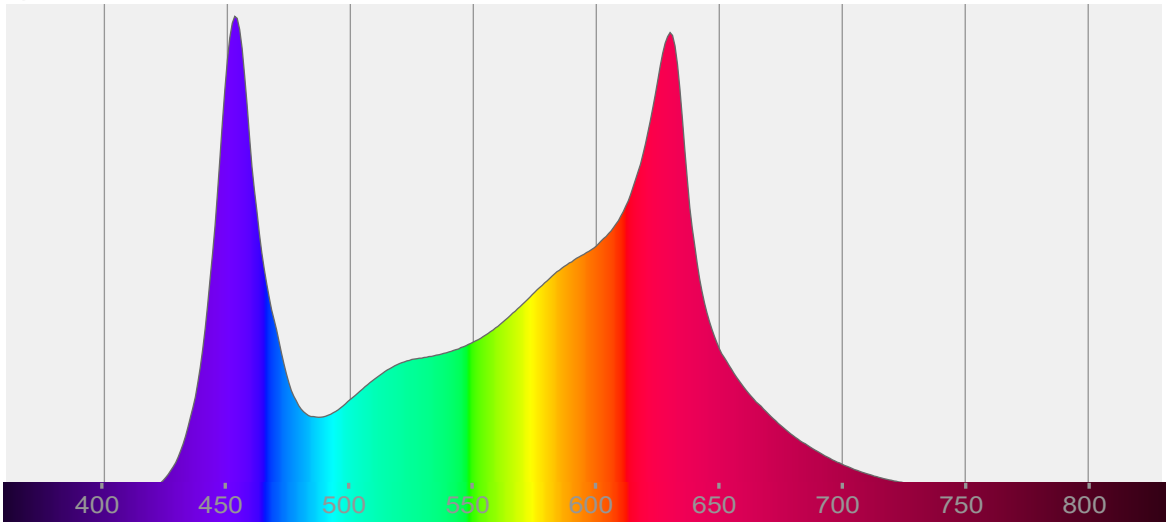
Measurements

Total Lumens: 8004 lm
Peak Intensity: 6209 cd
Fixture Efficacy: 49 lm/W

Correlated Color Temperature: 3270K
Δuv: -0.0358

CRI: 84.7 CRI R9 Value: 84.3
CQS: 84.5
TLCI: 80
TM-30-18 Rf: 86.5
TM-30-18 Rg: 110.3
1st Dominant Wavelength: 453 nM
2nd Dominant Wavelength: 630 nM

Spectral Distribution



Tested Color

3270 K
CIE 1931 Coordinates:
X: 0.381 Y: 0.308

Color Temperature

3270 K

Light Quality

CRI: 84.7

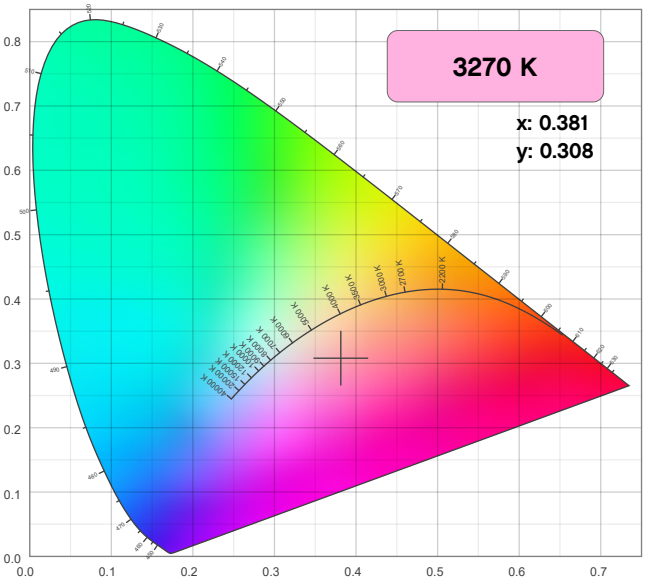
Notes:

Chromaticity Report

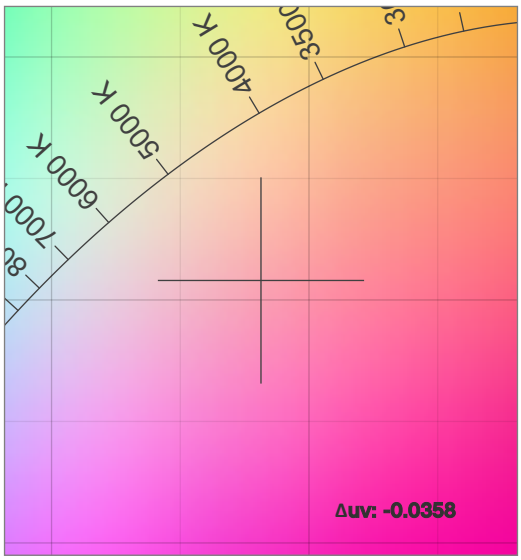
onAir IP Panel 1: Intensifier Filter - 3200K

Chromaticity

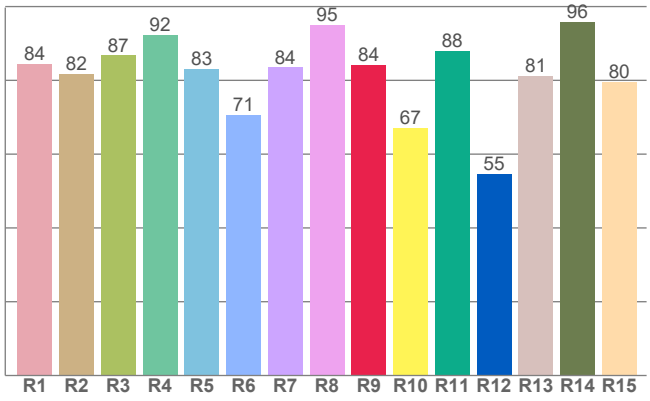
CIE 1931



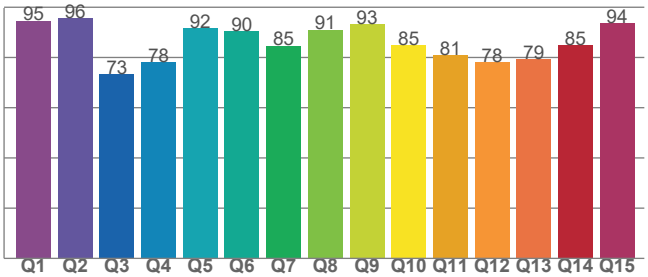
CIE 1931 - Zoom



CRI: 84.7 (R1-R8)



CQS: 84.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3270 K	0.381	0.308

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0358	0.308	0.257

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.7	84.3	84.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
80	86.5	110.3

Chromaticity Report

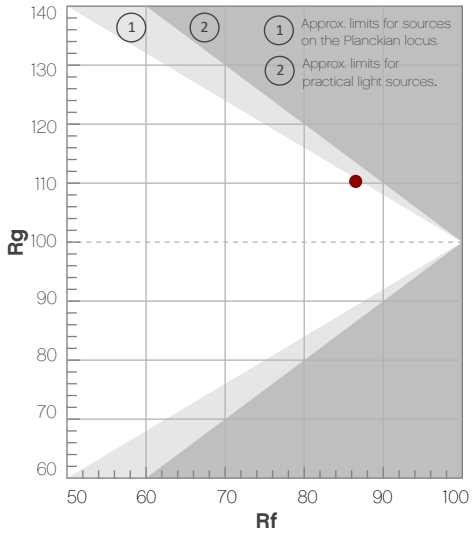
onAir IP Panel 1: Intensifier Filter - 3200K

TM-30-18 Details

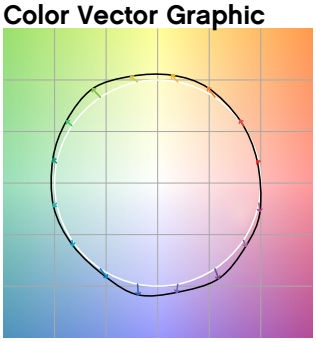
Rf 86.5
Fidelity Index (Rg)

Rg 110.3
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	91	-1%	2%
2	86	0%	6%
3	77	4%	11%
4	86	5%	7%
5	87	7%	5%
6	83	11%	2%
7	87	7%	-1%
8	90	4%	-3%
9	90	3%	3%
10	89	2%	5%
11	83	4%	10%
12	84	10%	3%
13	88	8%	-3%
14	86	10%	-2%
15	88	5%	-3%
16	86	3%	-8%

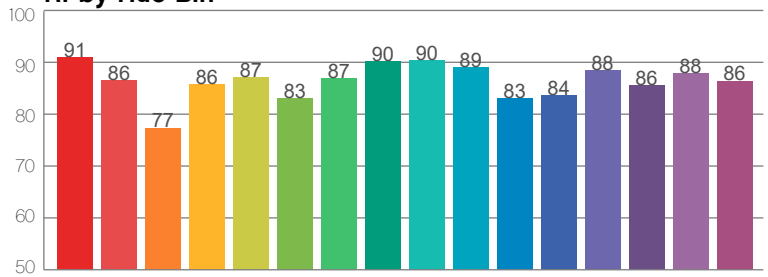


Color Vector Graphic

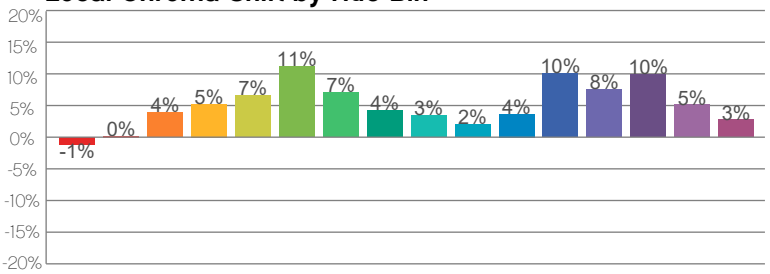


Color Distortion Graphic

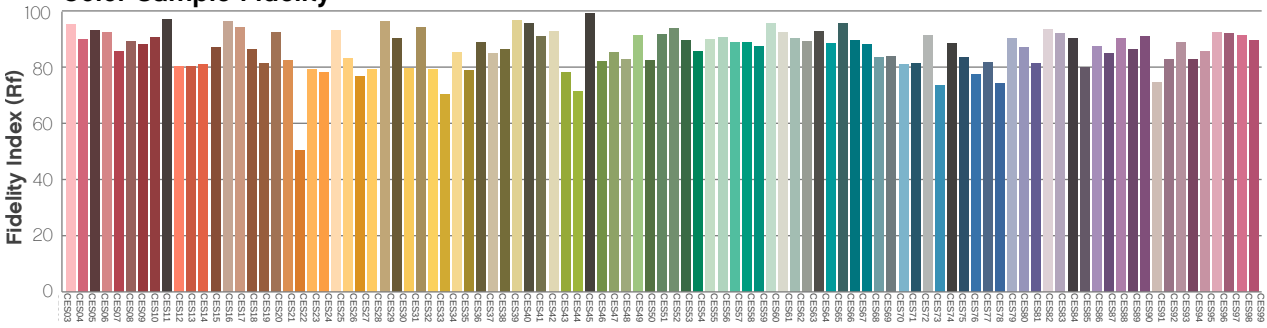
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

onAir IP Panel 1: Intensifier Filter - 5600K

Report Summary

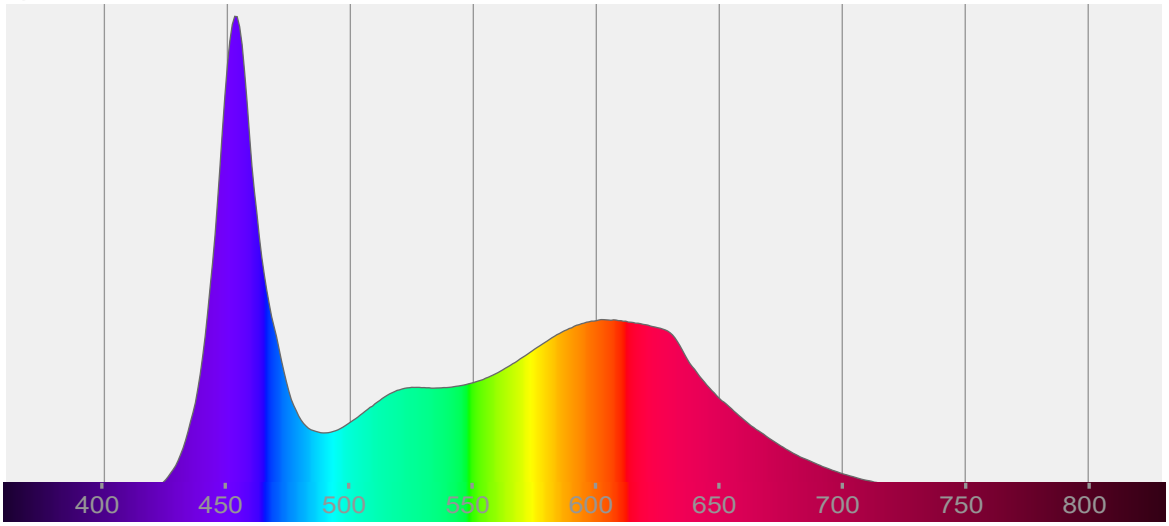
Measurements

Total Lumens: 7750 lm
Peak Intensity: 6016 cd
Fixture Efficacy: 49 lm/W

Correlated Color Temperature: 5632K
Δuv: -0.0386

CRI: 86.0 CRI R9 Value: 73.9
CQS: 78.4
TLCI: 81
TM-30-18 Rf: 81.5
TM-30-18 Rg: 106.4
1st Dominant Wavelength: 453 nM
2nd Dominant Wavelength: 602 nM

Spectral Distribution



Tested Color

5632 K
CIE 1931 Coordinates:
X: 0.330 Y: 0.278

Color Temperature

5632 K

Light Quality

CRI: 86.0

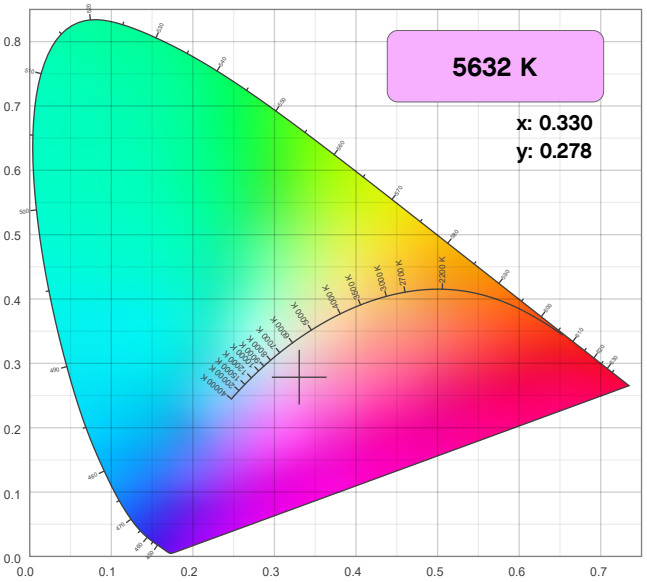
Notes:

Chromaticity Report

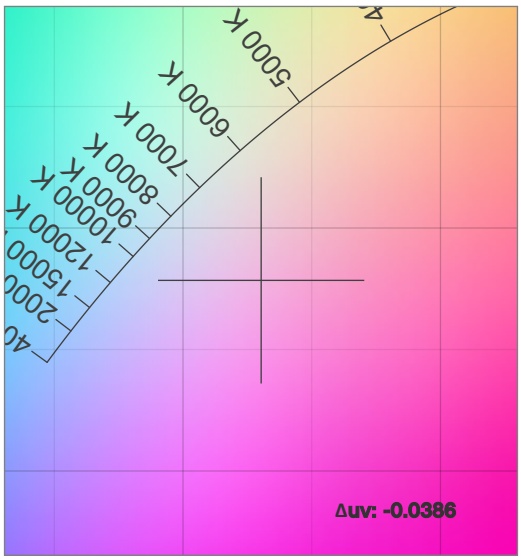
onAir IP Panel 1: Intensifier Filter - 5600K

Chromaticity

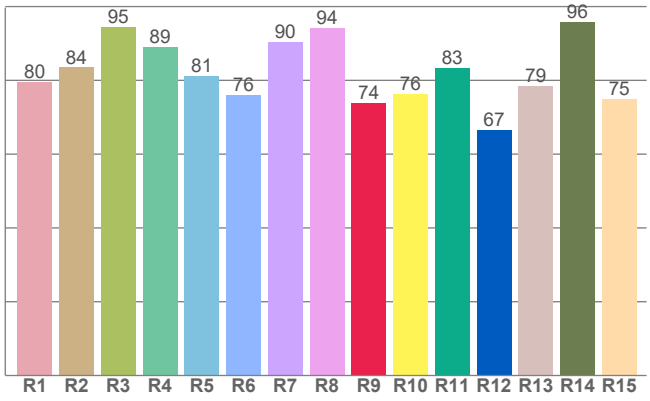
CIE 1931



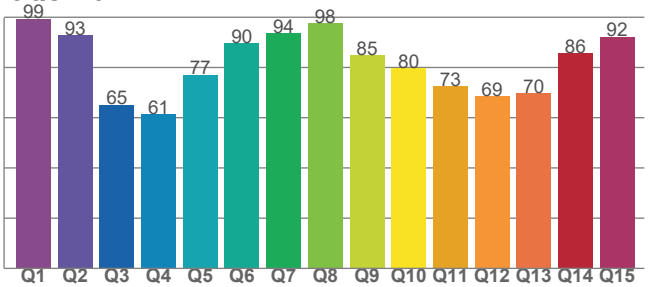
CIE 1931 - Zoom



CRI: 86.0 (R1-R8)



CQS: 78.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5632 K	0.330	0.278

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0386	0.278	0.233

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
86.0	73.9	78.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
81	81.5	106.4

Chromaticity Report

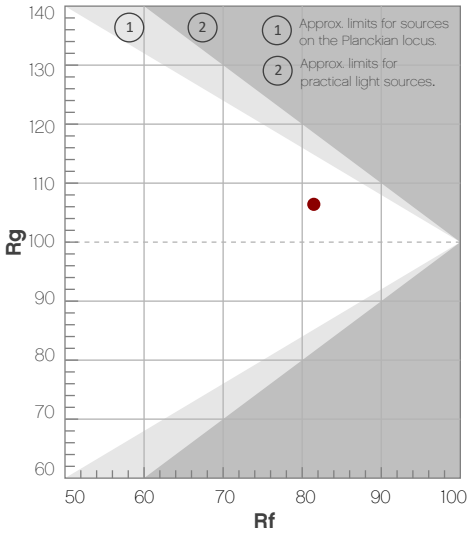
onAir IP Panel 1: Intensifier Filter - 5600K

TM-30-18 Details

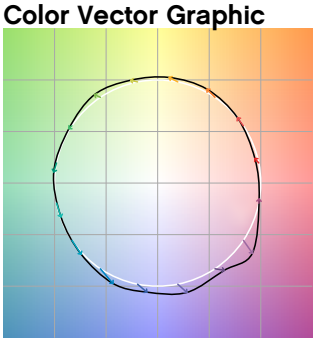
Rf 81.5
Fidelity Index (Rg)

Rg 106.4
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	84	-3%	5%
2	78	0%	10%
3	78	2%	11%
4	83	3%	9%
5	84	3%	6%
6	90	5%	3%
7	89	1%	4%
8	80	1%	9%
9	81	-2%	14%
10	72	0%	16%
11	69	5%	18%
12	82	6%	10%
13	86	10%	7%
14	84	6%	7%
15	81	14%	-5%
16	87	0%	4%

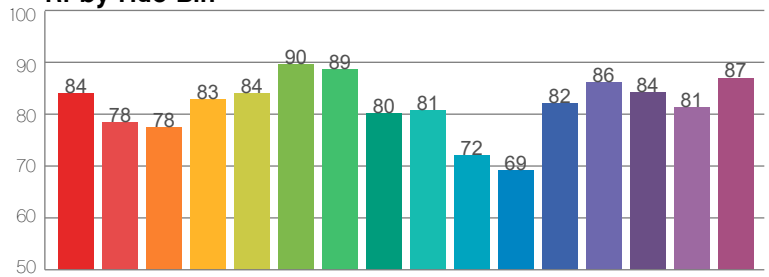


Color Vector Graphic

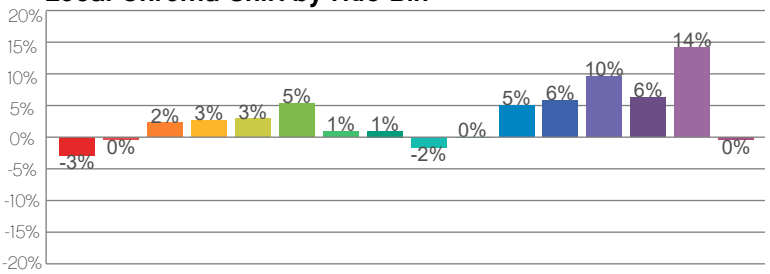


Color Distortion Graphic

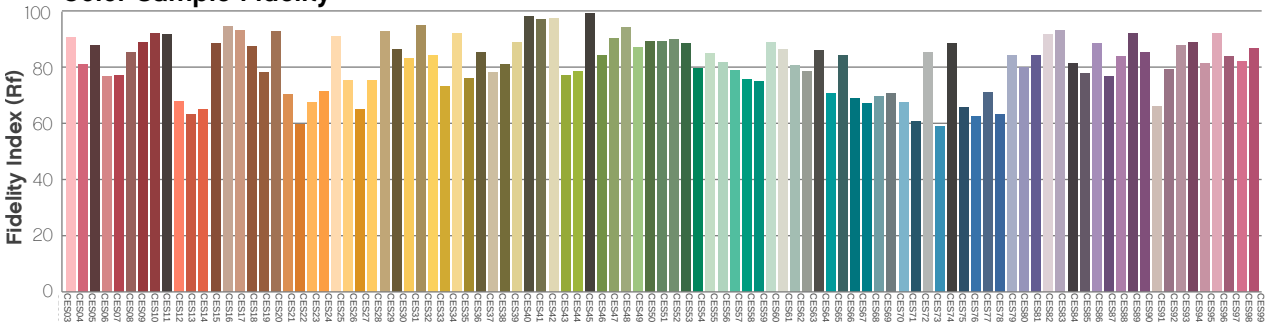
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Contact Us

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Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., U.K., Ireland, Benelux, France, Germany, or Mexico, contact the dealer of the record.