

W600G2

PHOTOMETRIC TEST REPORT

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Report Introduction

About this report

We measure total luminous flux with state-of-the-art equipment, such as an integrating sphere and a goniophotometer, based on a 6-Axis industry Robot. In this process we rely on our professional Cameo photometric laboratory or certified partners. Our measurements reflect the utilised flux emitted from the luminaire at all radiating angles considering the zoom range.
We process our measurement data in a specialized software to calculate all photometric data. This photometric report includes spectra, light distribution, TM-30-18, TLCI, and many other standardised reports. Additionally, we provide photometric data in IES and LDT file format.

Measurement conditions

- Stabilised laboratory room temperature for absolute consistency
- Stabilised luminaires (max. +-0.5% flux for at least 15min)
- Goniophotometer resolution: gamma = 5° and C-level = 0.1°
- Distance > photometric limit distance (tolerance < 1.0%)
- Calibrated and accurate tools

Equipment

- Goniometer with 6-Axis Robogonio by Opsira including Spectral Radiometer Spec`3 and frc-f-I, a fast Class-L Photometer for flicker etc.
- Integrating sphere UKU800 by Opsira
- Spectral Radiometer Spec`3 by Opsira
- Luxmeter Gossen MavoLux 5032-C
- Handheld-Spectrometer Gossen MavoSpec M600A
- Handheld-Spectrometer UPR-Tec MK350S Premium

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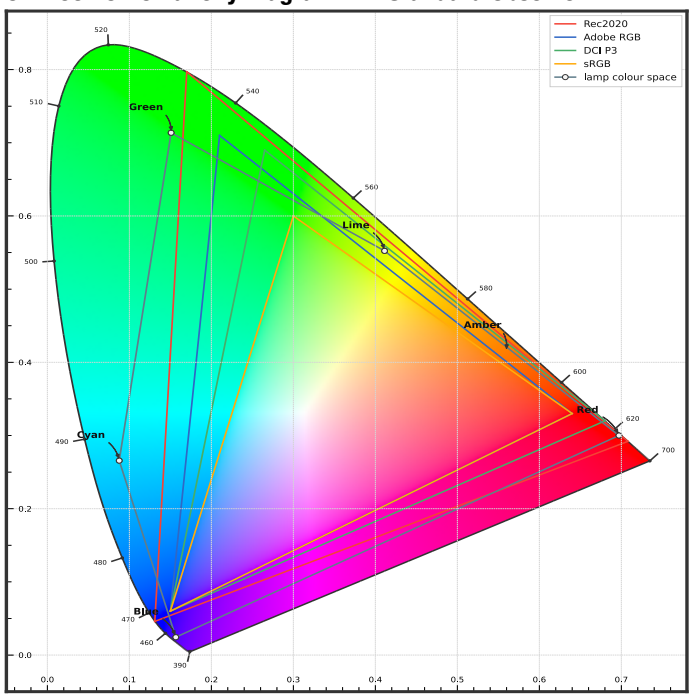
Overview

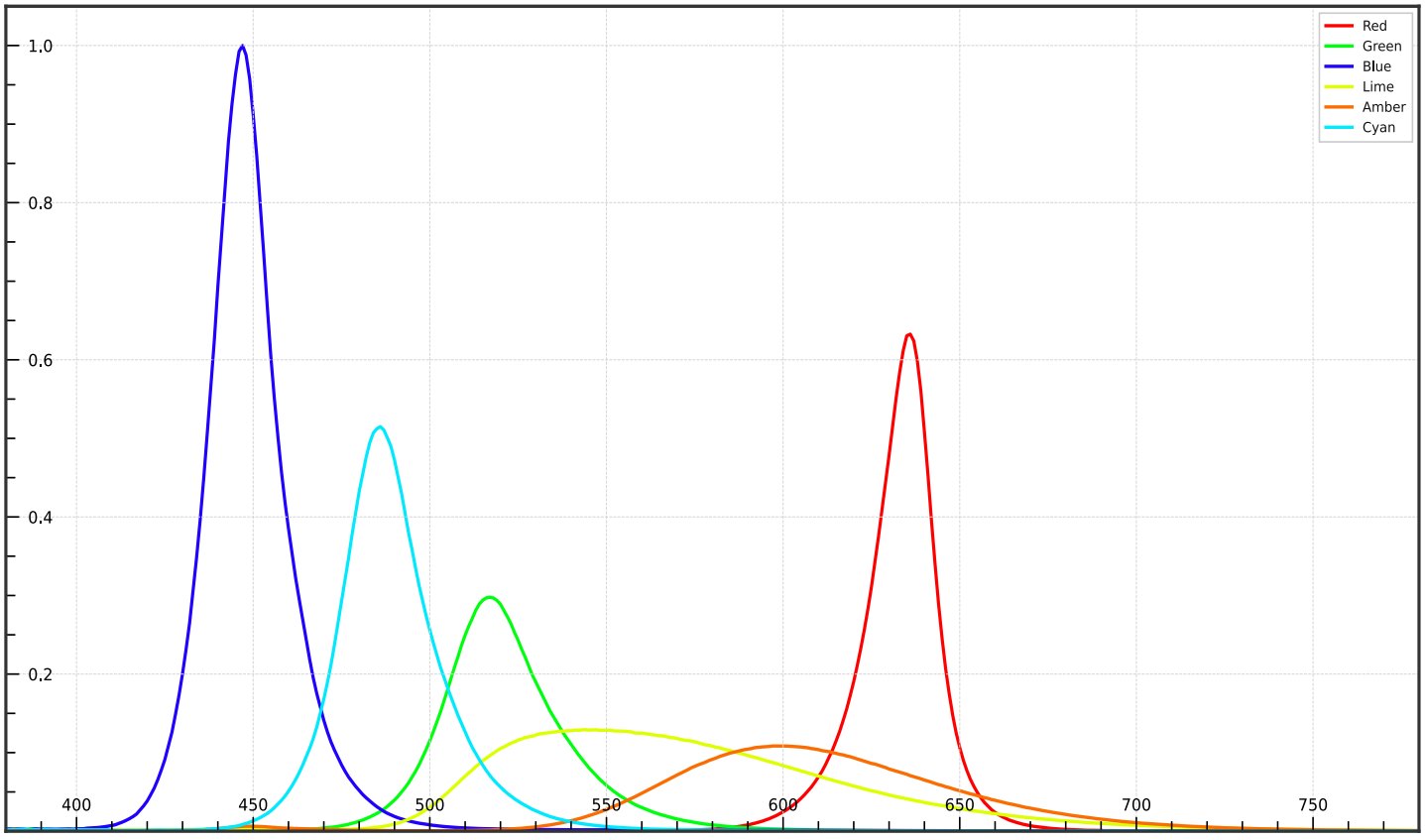
LED Colours	Lum flux [lm]	x	y
Red	4610	0.6970	0.3000
Green	9652	0.1509	0.7137
Blue	1512	0.1566	0.0244
Lime	12863	0.4112	0.5523
Amber	6605	0.5594	0.4159
Cyan	5210	0.0876	0.2657

Colour space	Coverage [%]
Rec2020	91.3
Adobe RGB	98.6
DCI P3	96.2
sRGB	100.0

CIE 1931 Chromaticity Diagram - 2° Standard Observer



Spectral Distribution for Colours (Wavelength [nm] --> relative Intensity)



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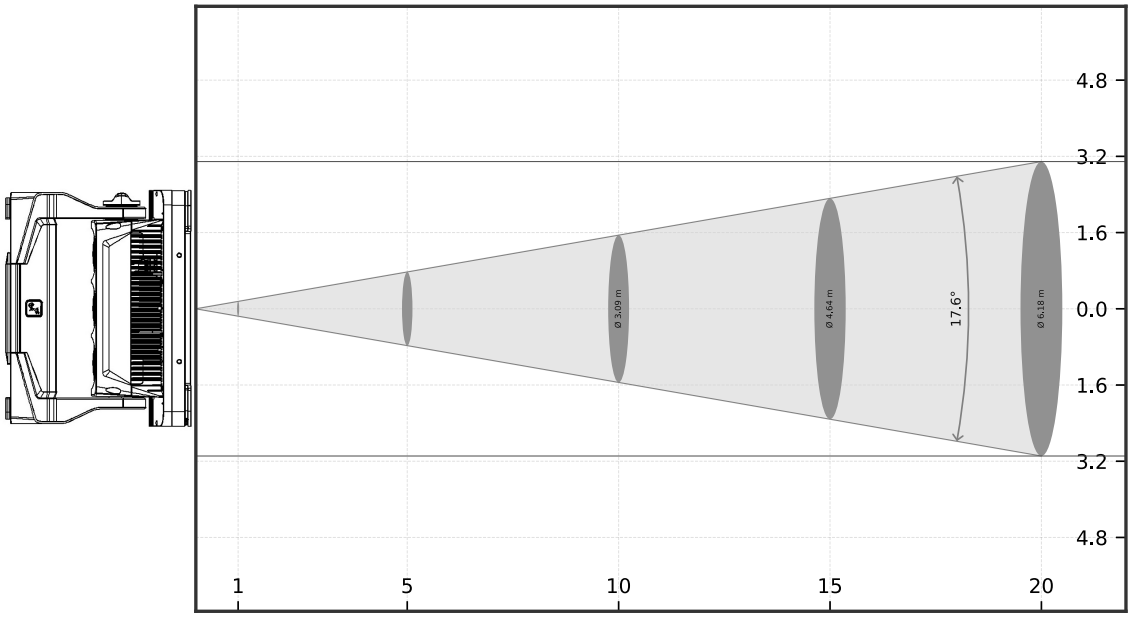
White 4000K max Brightness – Photometric Report

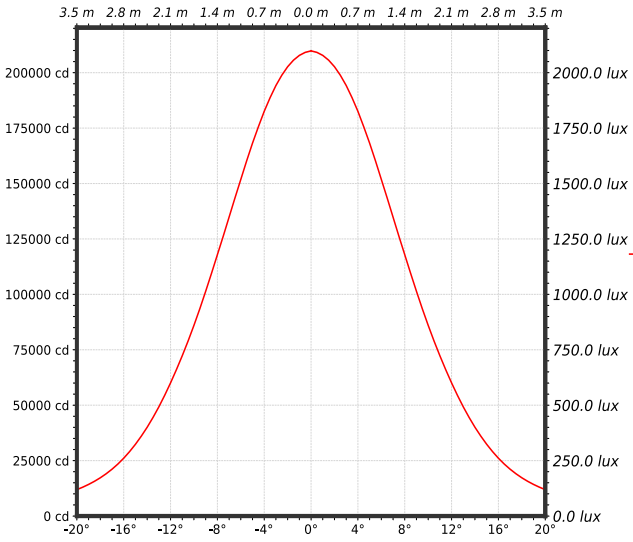
Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
17.6	34.1	32000	696	46.0

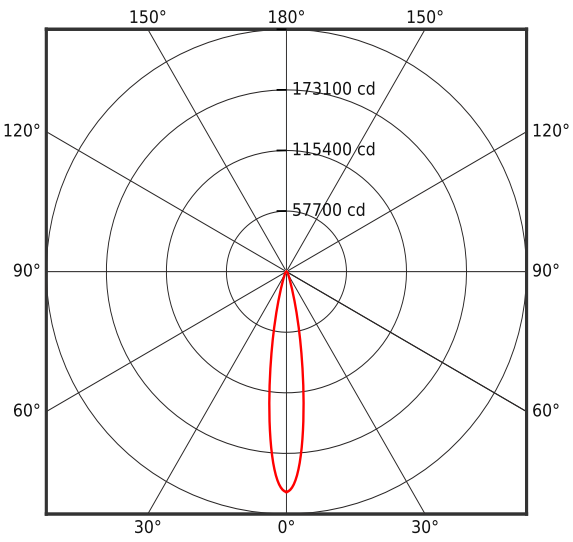
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	209829	8393	2098	933	525
Diameter [m]	0.31	1.55	3.09	4.64	6.18

Light Distribution Diagrams / Illuminance





Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 129; PWM: 1500Hz; Optimization Mode: Brightness; Fan Mode: Auto

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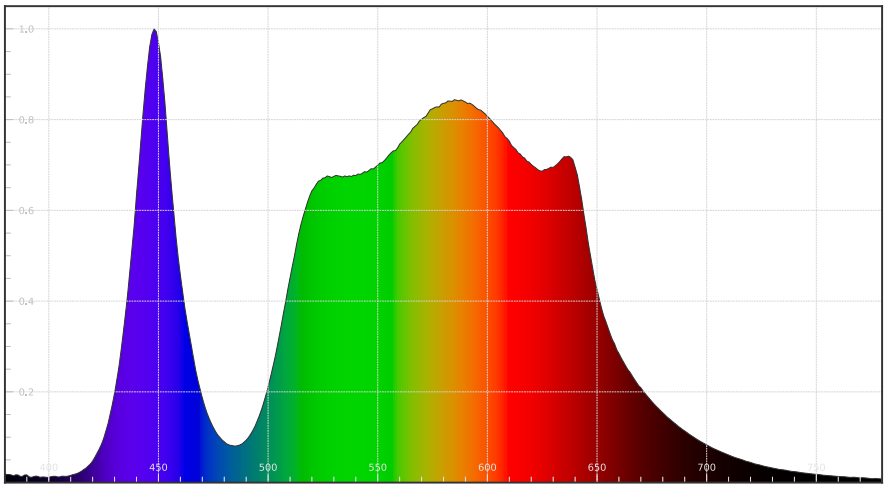
White 4000K max Brightness – Colorimetric Report

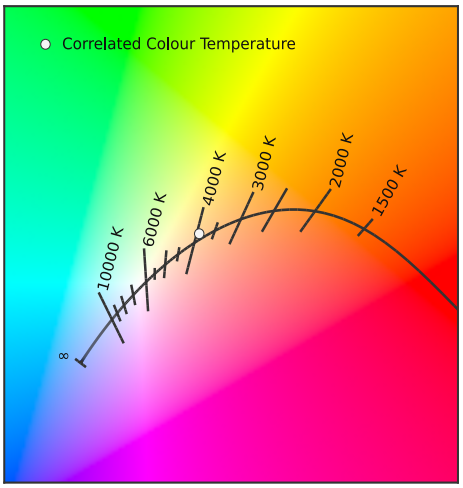
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	3922	Luminous Flux [lm]	**Lum Flux**	32000
Colour Deviation from Black	**D_{uv}**	0.0002	Colour Rendering Index	**CRI Ra**	78
Colour Coordinate CIE 1931	**x**	0.3841	Red Component	**CRI R9**	8
Colour Coordinate CIE 1931	**y**	0.3795	Colour Fidelity	**TM30 R_f**	78
Colour Coordinate CIE 1976	**u'**	0.2264	Colour Gamut	**TM30 R_g**	99
Colour Coordinate CIE 1976	**v'**	0.5033	Television Lighting Consistency Index	**TLCI**	55
Spectral Similarity Index	**SSI[P3922]**	62			

CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)

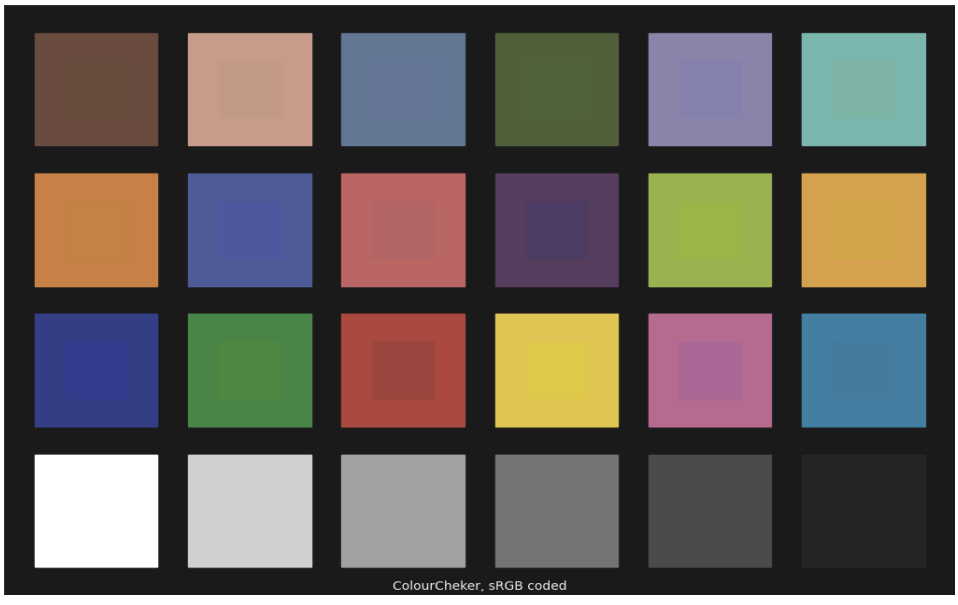


Colour Temperature

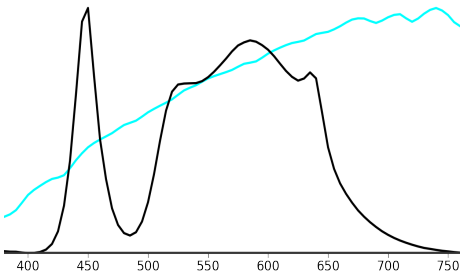


Television Lighting Consistency Index-2012

CCT = M3922 (0.0) TLCI-2012 : 55 (M3922)



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



Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 129; PWM: 1500Hz; Optimization Mode: Brightness; Fan Mode: Auto

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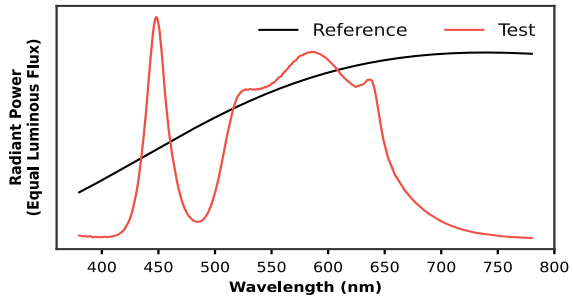
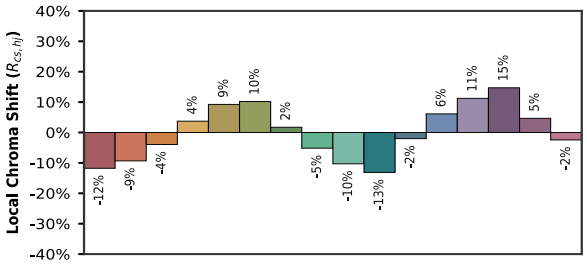
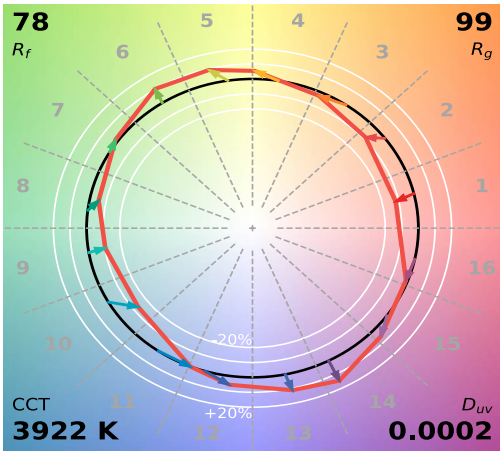
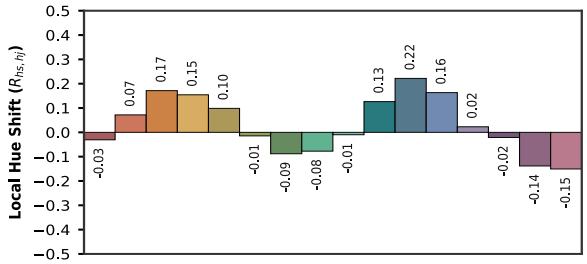
White 4000K max Brightness – Colorimetric Report

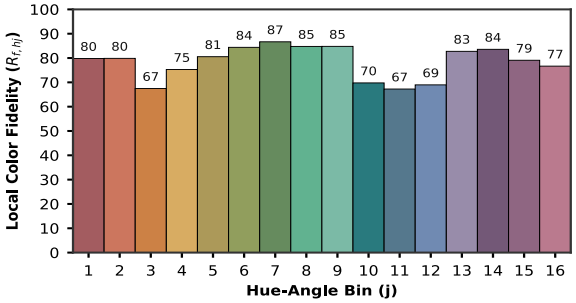
IES TM-30-18 Colour Rendition Report

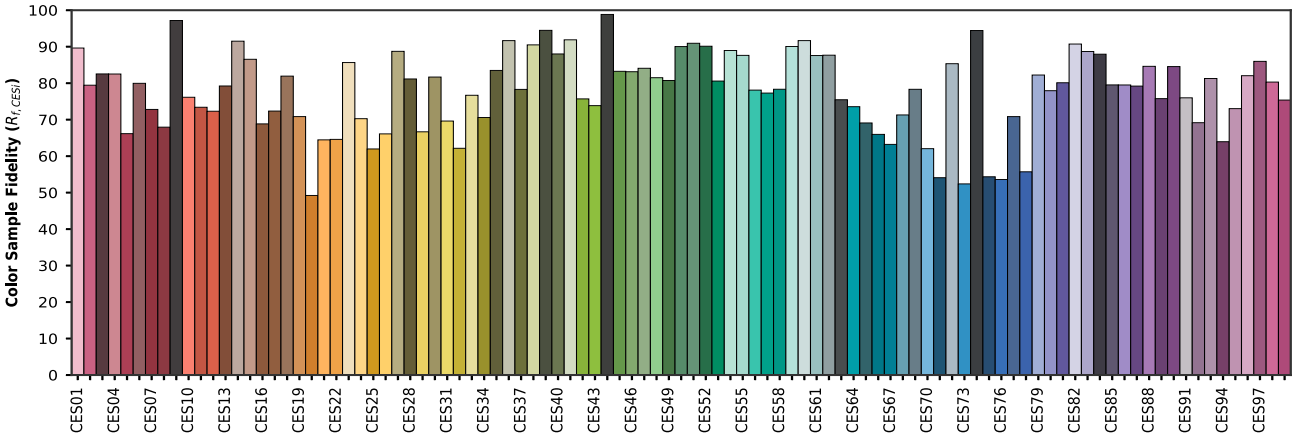












x	**0.3841**
y	**0.3795**
u′	**0.2264**
v′	**0.5033**

CIE 13.31-1995
(CRI)
R_a **78**
R_9 **8**

Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 129; PWM: 1500Hz; Optimization Mode: Brightness; Fan Mode: Auto

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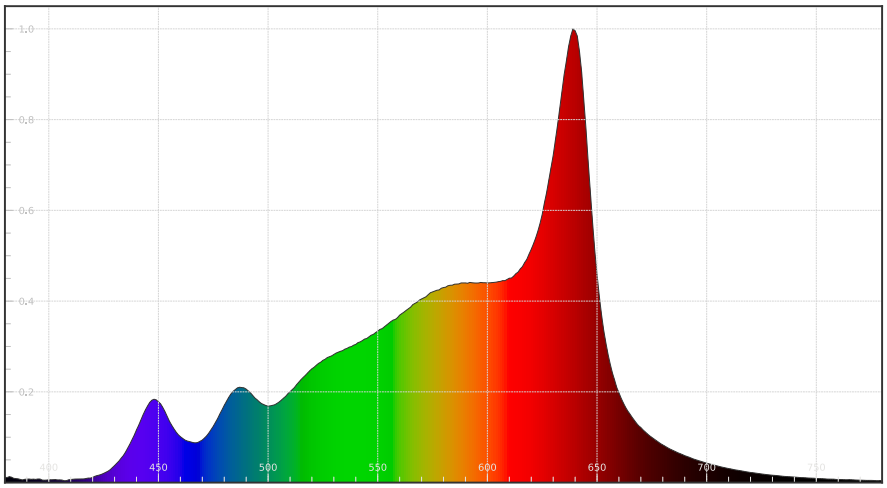
CCT 2700K Quality Mode – Colorimetric Report

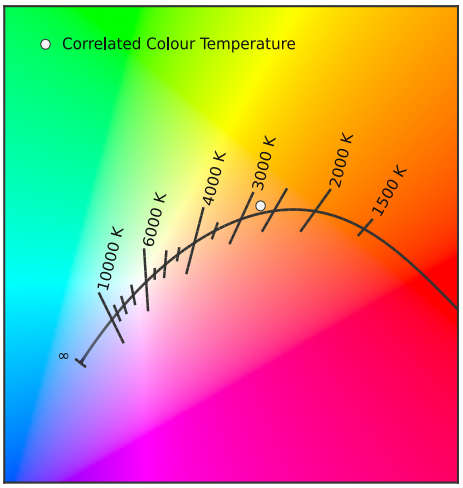
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	2756	Luminous Flux [lm]	**Lum Flux**	27100
Colour Deviation from Black	**D_{uv}**	0.0010	Colour Rendering Index	**CRI Ra**	97
Colour Coordinate CIE 1931	**x**	0.4570	Red Component	**CRI R9**	92
Colour Coordinate CIE 1931	**y**	0.4126	Colour Fidelity	**TM30 R_f**	95
Colour Coordinate CIE 1976	**u'**	0.2598	Colour Gamut	**TM30 R_g**	99
Colour Coordinate CIE 1976	**v'**	0.5277	Television Lighting Consistency Index	**TLCI**	91
Spectral Similarity Index	**SSI[P2756]**	80			

CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)



Colour Temperature

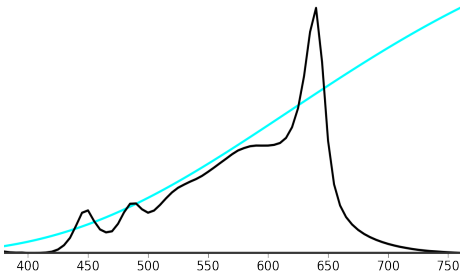


Television Lighting Consistency Index-2012

CCT = P2756 (0.2) TLCI-2012 : 91 (P2756)



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	0	0
B/M	++	0	+++
M	+	0	++
M/R	+	0	0



Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 047; PWM: 1500Hz; Optimization Mode: Quality; Fan Mode: Auto

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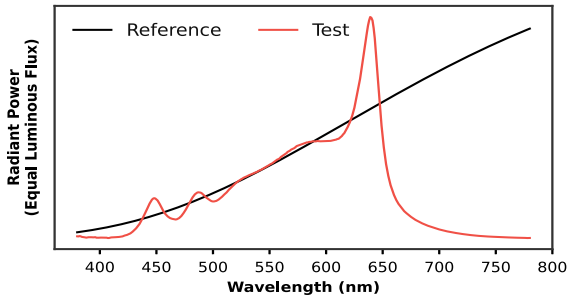
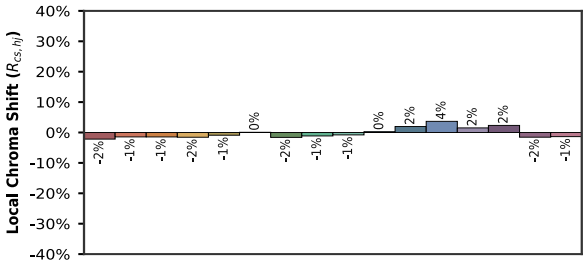
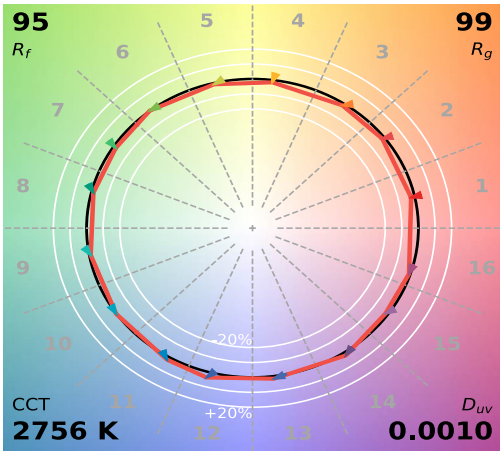
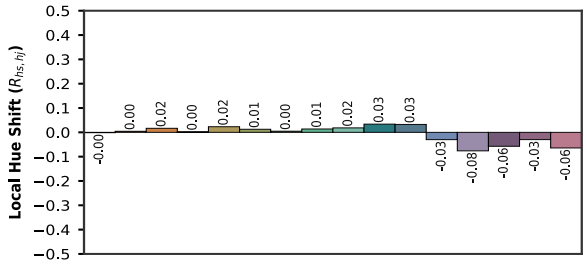
CCT 2700K Quality Mode – Colorimetric Report

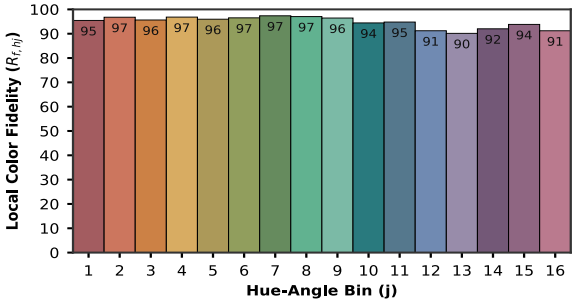
IES TM-30-18 Colour Rendition Report

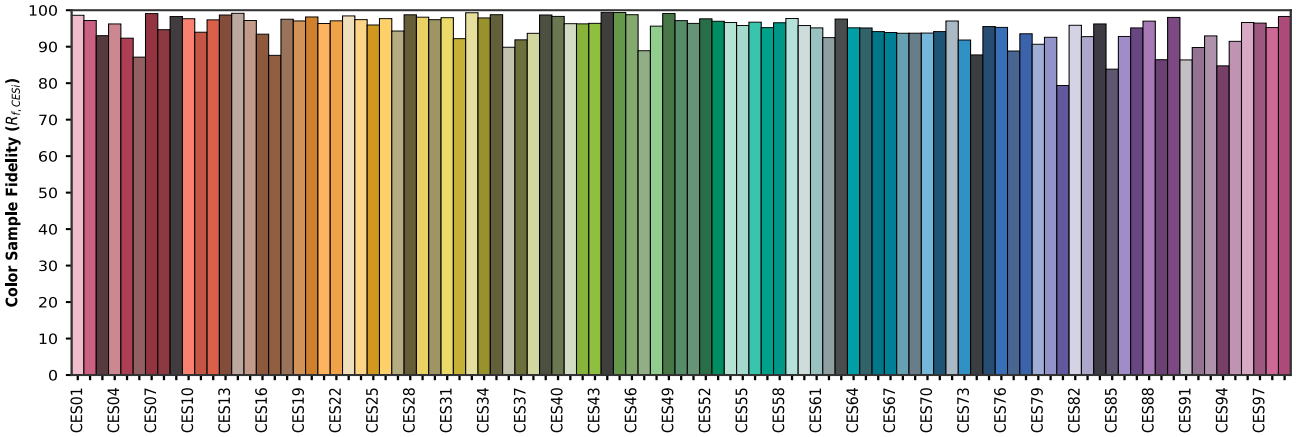












x	**0.4570**
y	**0.4126**
u'	**0.2598**
v'	**0.5277**

CIE 13.31-1995
(CRI)
R_a **97**
R_9 **92**

Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 047; PWM: 1500Hz; Optimization Mode: Quality; Fan Mode: Auto

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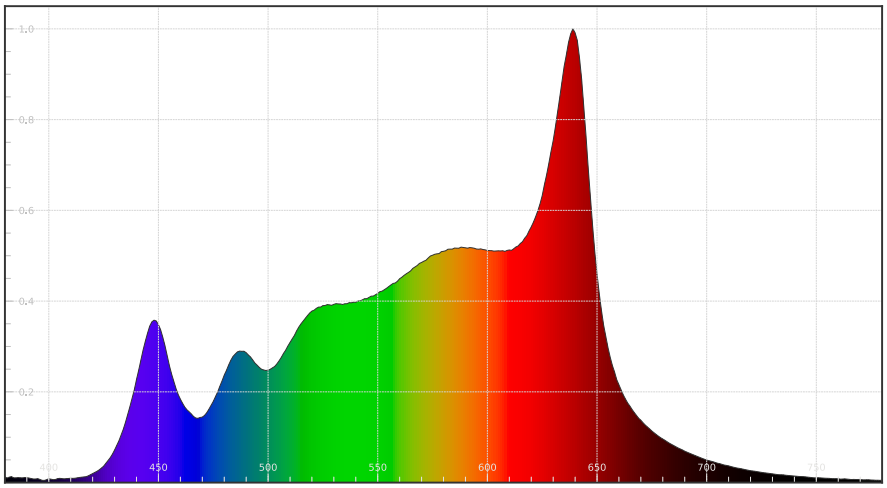
CCT 3200K Quality Mode – Colorimetric Report

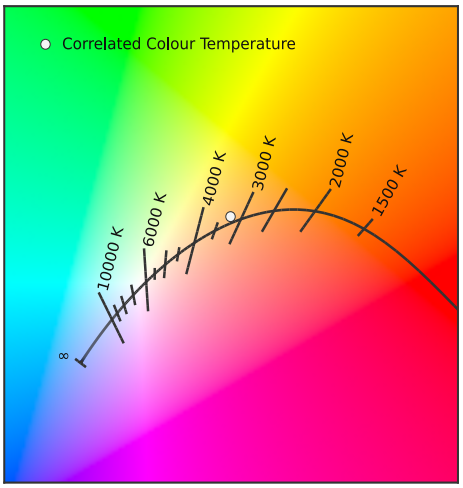
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	3248	Luminous Flux [lm]	**Lum Flux**	27600
Colour Deviation from Black	**D_{uv}**	0.0008	Colour Rendering Index	**CRI Ra**	97
Colour Coordinate CIE 1931	**x**	0.4213	Red Component	**CRI R9**	90
Colour Coordinate CIE 1931	**y**	0.4000	Colour Fidelity	**TM30 R_f**	95
Colour Coordinate CIE 1976	**u'**	0.2422	Colour Gamut	**TM30 R_g**	101
Colour Coordinate CIE 1976	**v'**	0.5174	Television Lighting Consistency Index	**TLCI**	93
Spectral Similarity Index	**SSI[P3248]**	79			

CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)



Colour Temperature

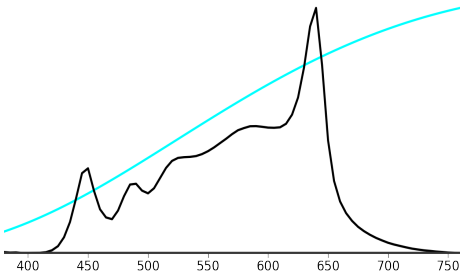


Television Lighting Consistency Index-2012

CCT = P3248 (0.1) TLCI-2012 : 93 (P3248)



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



Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 088; PWM: 1500Hz; Optimization Mode: Quality; Fan Mode: Auto

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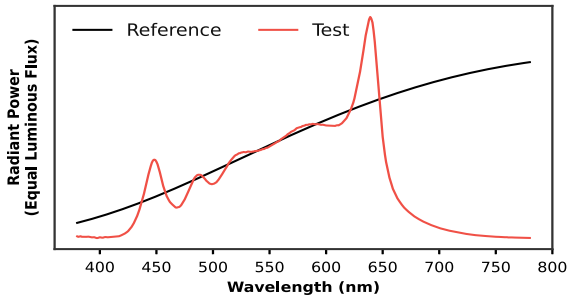
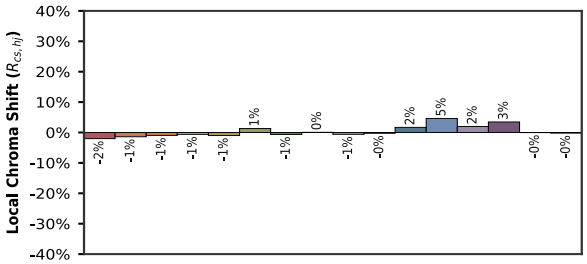
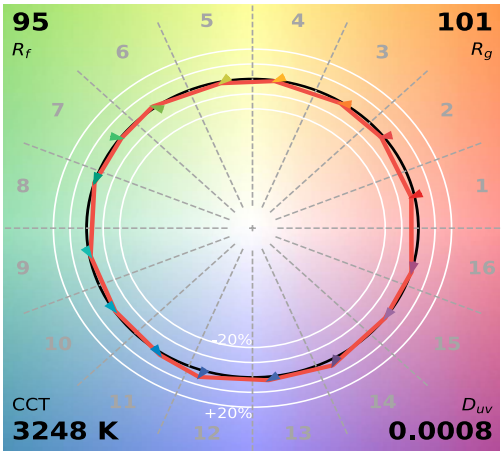
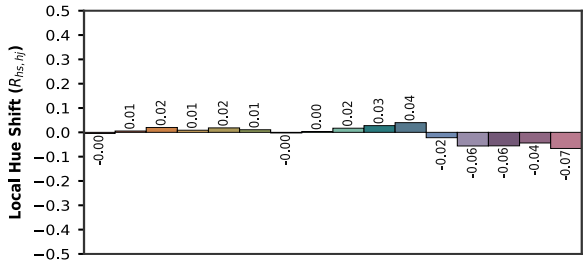
CCT 3200K Quality Mode – Colorimetric Report

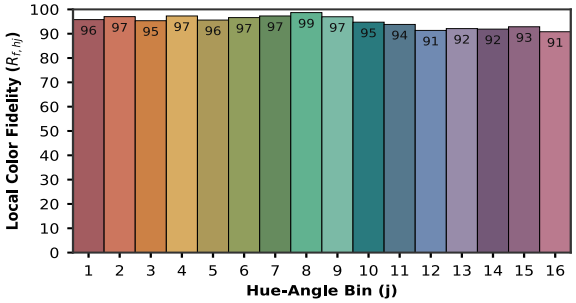
IES TM-30-18 Colour Rendition Report

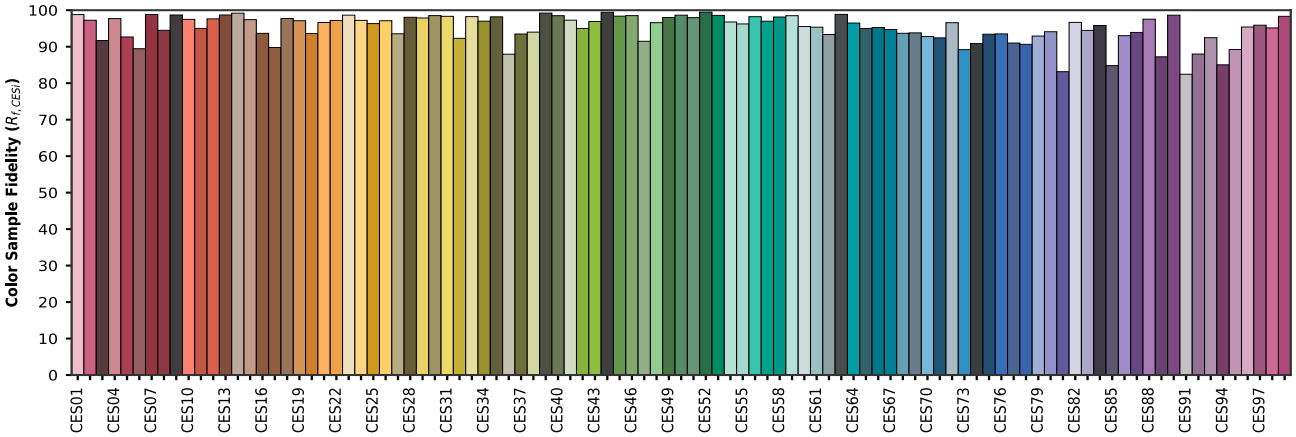












x	**0.4213**
y	**0.4000**
u'	**0.2422**
v'	**0.5174**

CIE 13.31-1995 (CRI)
R_a **97**
R_9 **90**

Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 088; PWM: 1500Hz; Optimization Mode: Quality; Fan Mode: Auto

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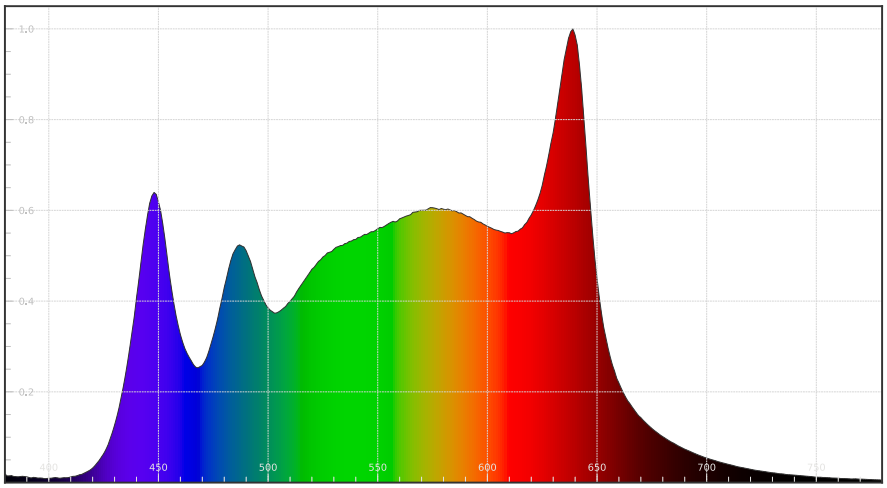
W600G2

CCT 4000K Quality Mode – Colorimetric Report

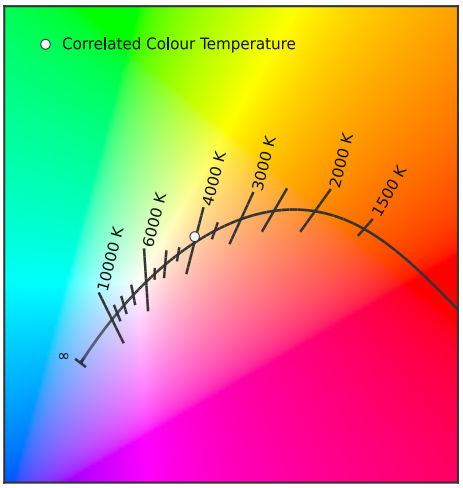
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	4040	Luminous Flux [lm]	**Lum Flux**	28500
Colour Deviation from Black	**D_{uv}**	0.0013	Colour Rendering Index	**CRI Ra**	96
Colour Coordinate CIE 1931	**x**	0.3795	Red Component	**CRI R9**	87
Colour Coordinate CIE 1931	**y**	0.3789	Colour Fidelity	**TM30 R_f**	93
Colour Coordinate CIE 1976	**u'**	0.2237	Colour Gamut	**TM30 R_g**	99
Colour Coordinate CIE 1976	**v'**	0.5024	Television Lighting Consistency Index	**TLCI**	92
Spectral Similarity Index	**SSI[P4040]**	75			

CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)



Colour Temperature

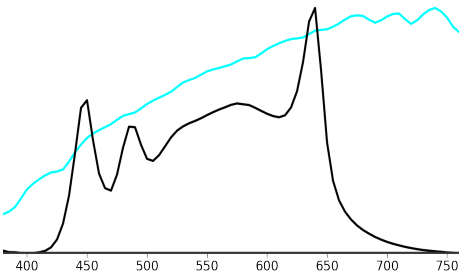


Television Lighting Consistency Index-2012

CCT = M4040 (0.2) TLCI-2012 : 92 (M4040)



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	0	0
B/M	+	0	+++
M	+	0	++
M/R	+	0	+



Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 129; PWM: 1500Hz; Optimization Mode: Quality; Fan Mode: Auto

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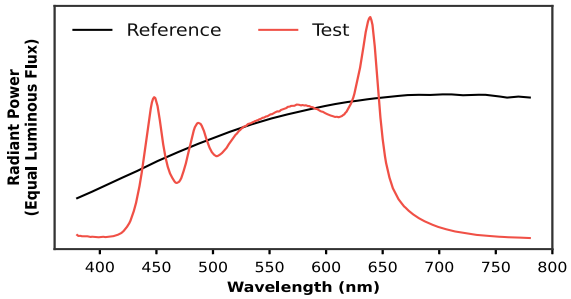
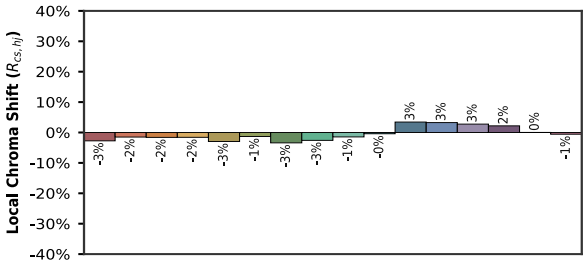
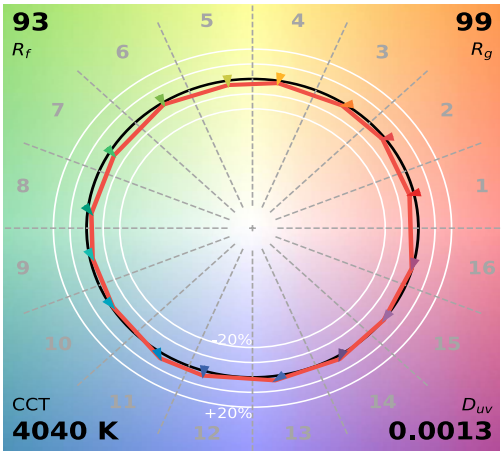
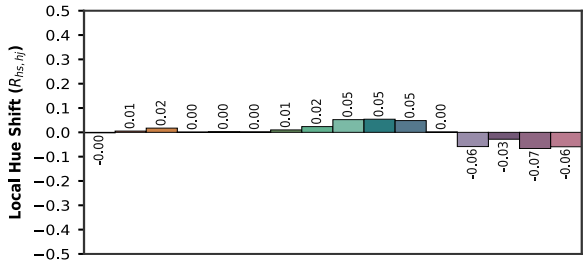
CCT 4000K Quality Mode – Colorimetric Report

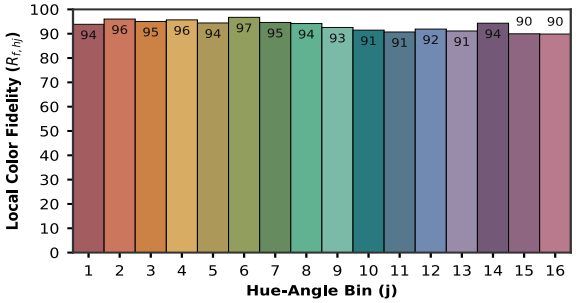
IES TM-30-18 Colour Rendition Report

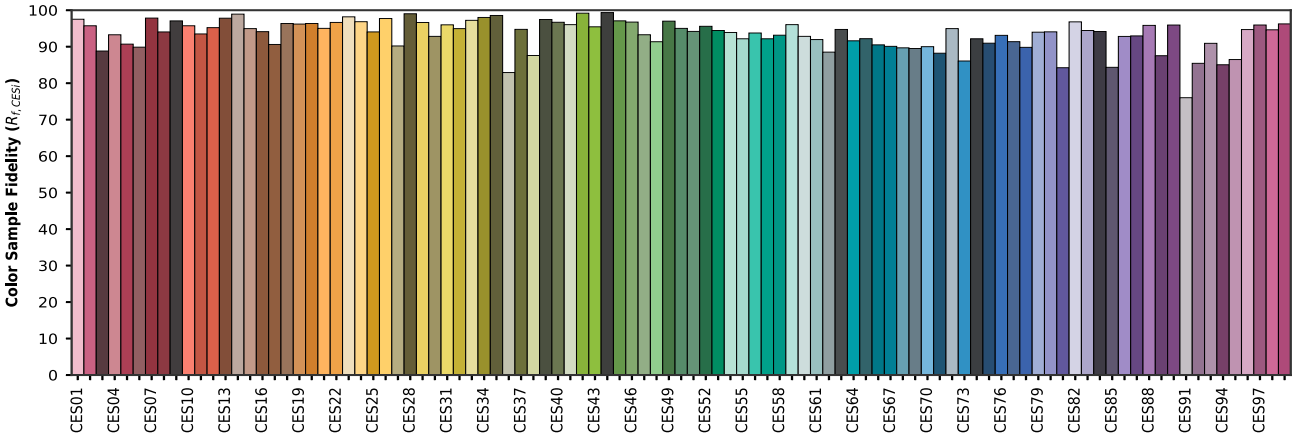












x	**0.3795**
y	**0.3789**
u'	**0.2237**
v'	**0.5024**

CIE 13.31-1995
(CRI)
R_a **96**
R_9 **87**

Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 129; PWM: 1500Hz; Optimization Mode: Quality; Fan Mode: Auto

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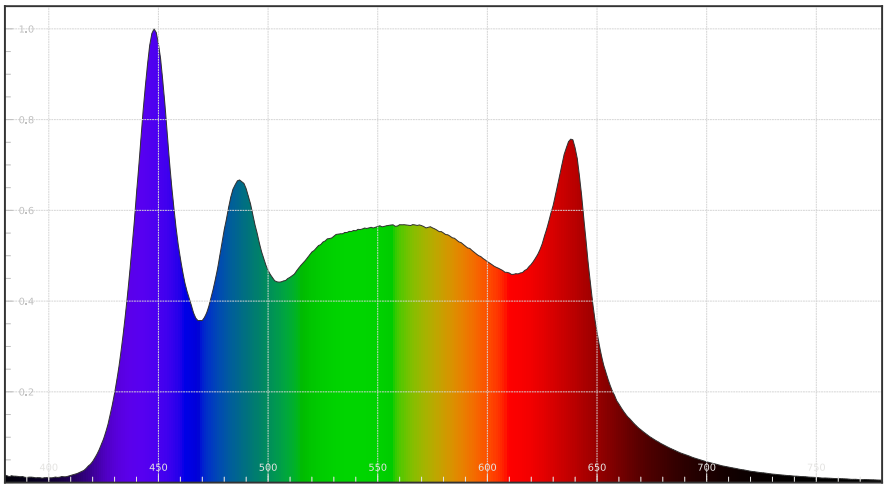
W600G2

CCT 5600K Quality Mode – Colorimetric Report

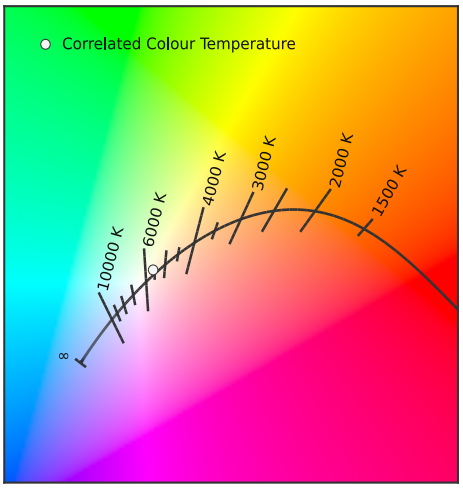
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	5586	Luminous Flux [lm]	**Lum Flux**	26300
Colour Deviation from Black	**D_{uv}**	0.0010	Colour Rendering Index	**CRI Ra**	96
Colour Coordinate CIE 1931	**x**	0.3305	Red Component	**CRI R9**	88
Colour Coordinate CIE 1931	**y**	0.3412	Colour Fidelity	**TM30 R_f**	94
Colour Coordinate CIE 1976	**u'**	0.2055	Colour Gamut	**TM30 R_g**	100
Colour Coordinate CIE 1976	**v'**	0.4773	Television Lighting Consistency Index	**TLCI**	93
Spectral Similarity Index	**SSI[CIE D5586]**	73			

CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)



Colour Temperature

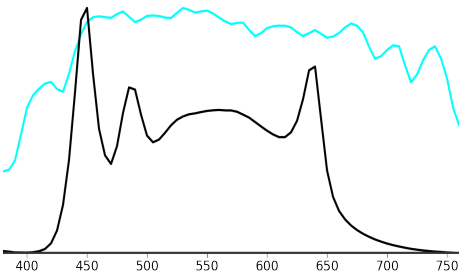


Television Lighting Consistency Index-2012

CCT = D5586 (0.2) TLCI-2012 : 93 (D5586)



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	0	0
B/M	+	0	++
M	+	0	+
M/R	+	0	+



Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 170; PWM: 1500Hz; Optimization Mode: Quality; Fan Mode: Auto

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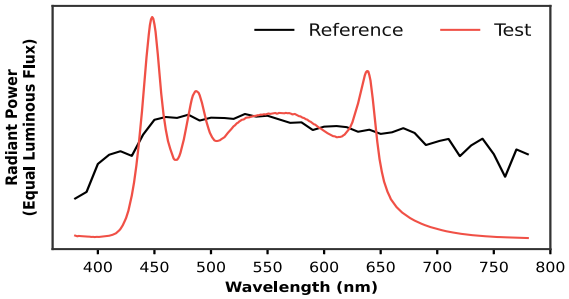
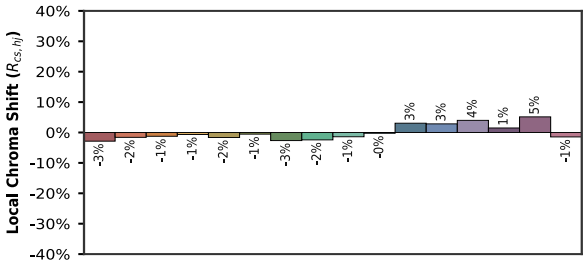
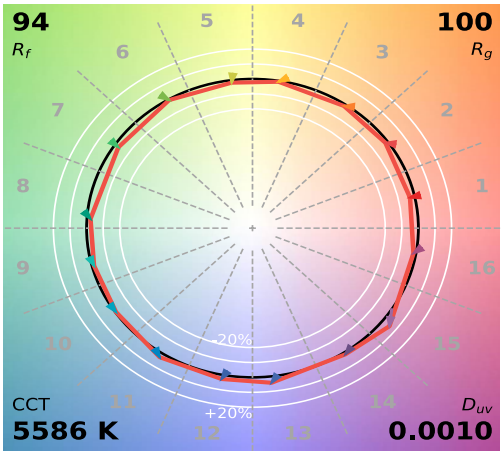
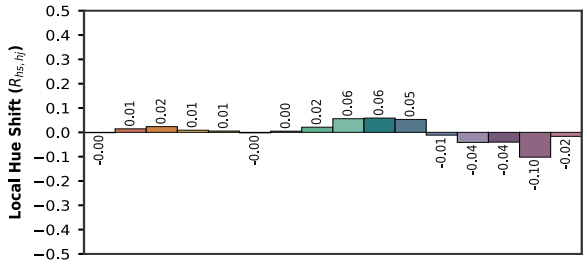
CCT 5600K Quality Mode – Colorimetric Report

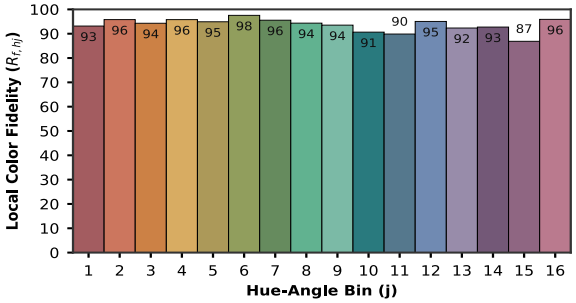
IES TM-30-18 Colour Rendition Report

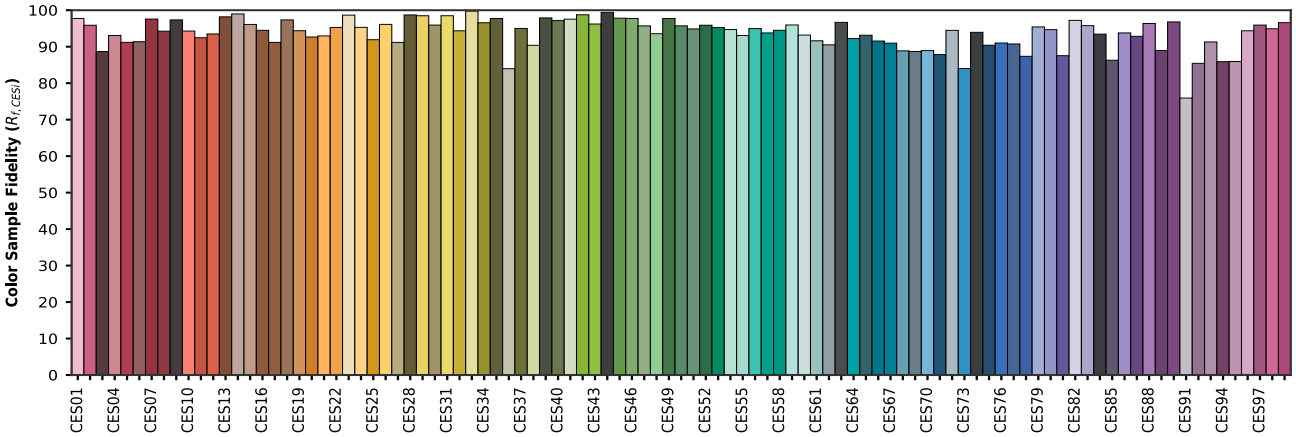












x	0.3305
y	0.3412
u'	0.2055
v'	0.4773

CIE 13.31-1995 (CRI)
R_a 96
R_9 88

Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 170; PWM: 1500Hz; Optimization Mode: Quality; Fan Mode: Auto

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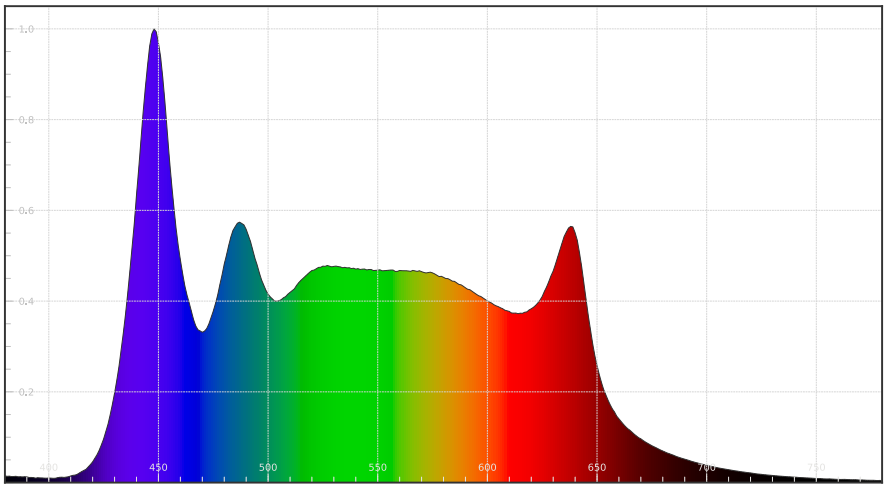
W600G2

CCT 6500K Quality Mode – Colorimetric Report

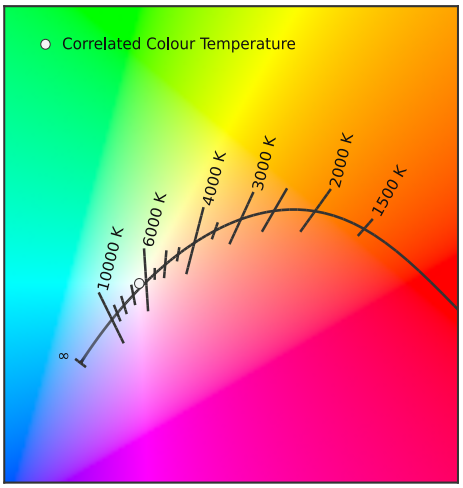
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	6445	Luminous Flux [lm]	**Lum Flux**	27500
Colour Deviation from Black	**D_{uv}**	0.0007	Colour Rendering Index	**CRI Ra**	97
Colour Coordinate CIE 1931	**x**	0.3142	Red Component	**CRI R9**	88
Colour Coordinate CIE 1931	**y**	0.3256	Colour Fidelity	**TM30 R_f**	94
Colour Coordinate CIE 1976	**u'**	0.2002	Colour Gamut	**TM30 R_g**	100
Colour Coordinate CIE 1976	**v'**	0.4667	Television Lighting Consistency Index	**TLCI**	94
Spectral Similarity Index	**SSI[CIE D6445]**	70			

CIE 1931 2° Standard Observer (Wavelength [nm] --> relative Spectral Distribution)

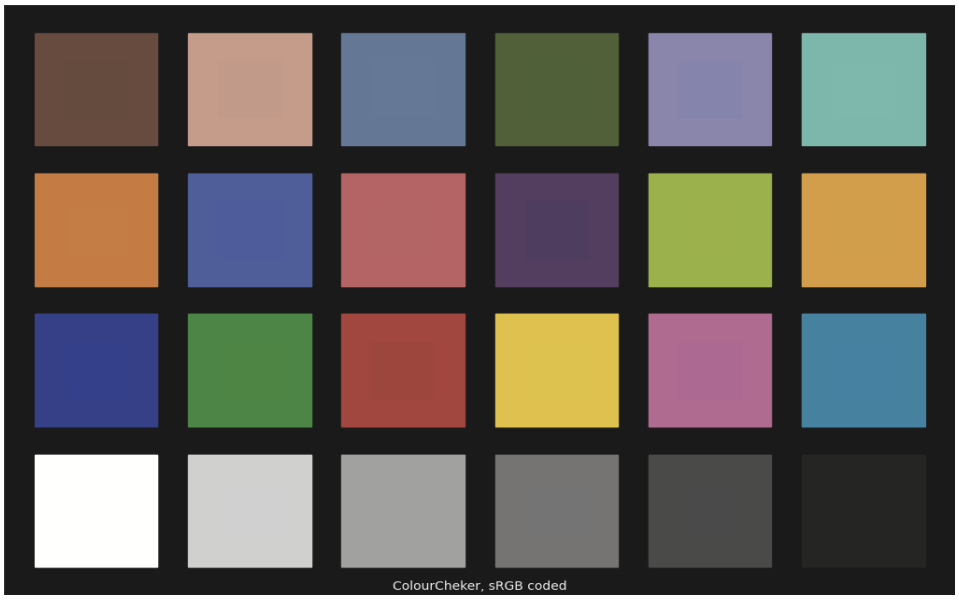


Colour Temperature

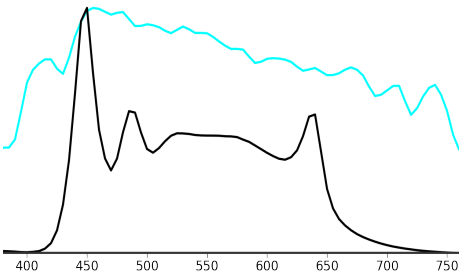


Television Lighting Consistency Index-2012

CCT = D6445 (0.1) TLCI-2012 : 94 (D6445)



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	-	0
B/M	+	0	++
M	+	0	+
M/R	+	0	+



Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 211; PWM: 1500Hz; Optimization Mode: Quality; Fan Mode: Auto

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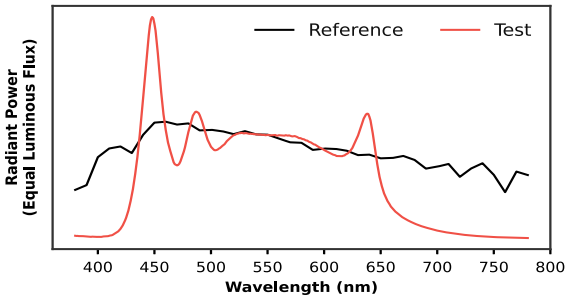
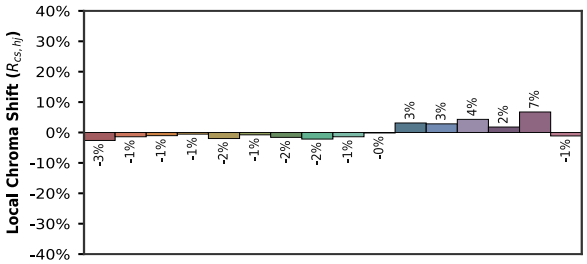
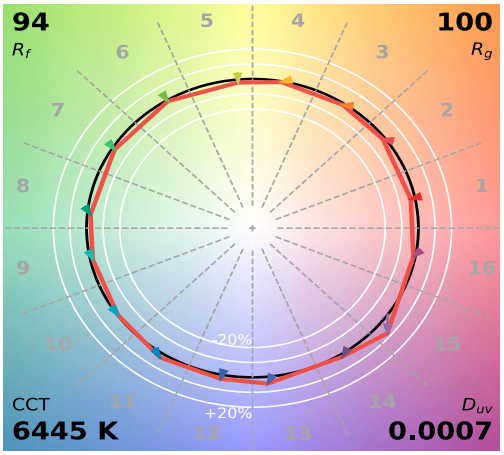
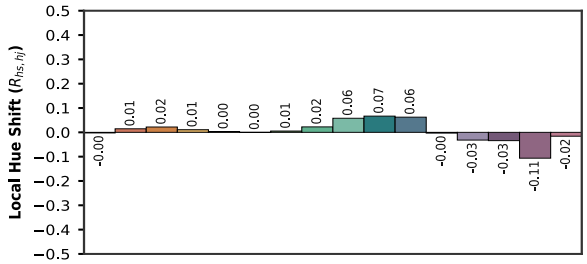
CCT 6500K Quality Mode – Colorimetric Report

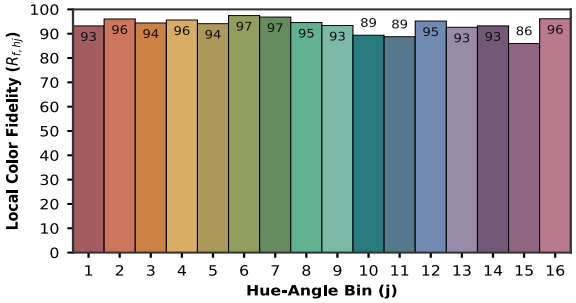
IES TM-30-18 Colour Rendition Report

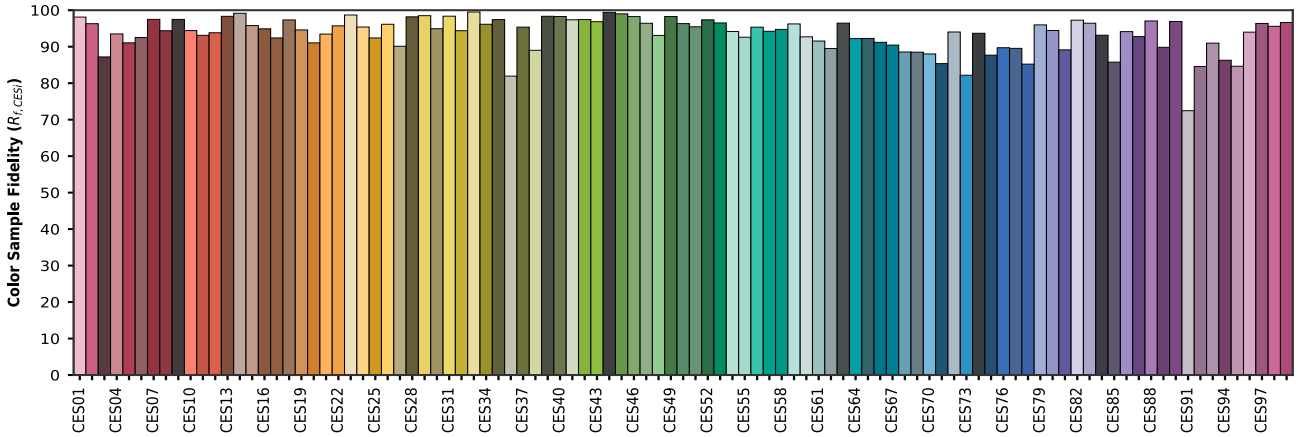












x	**0.3142**
y	**0.3256**
u'	**0.2002**
v'	**0.4667**

CIE 13.31-1995
(CRI)
R_a **97**
R_9 **88**

Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 211; PWM: 1500Hz; Optimization Mode: Quality; Fan Mode: Auto

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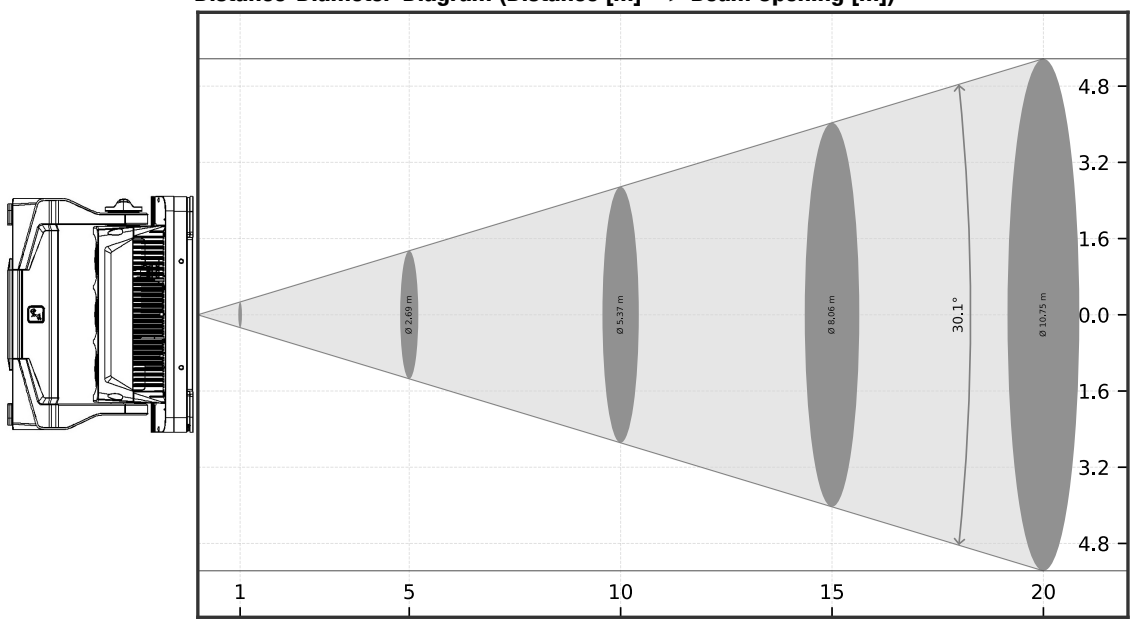
W600G2

25° Filter – Photometric Report

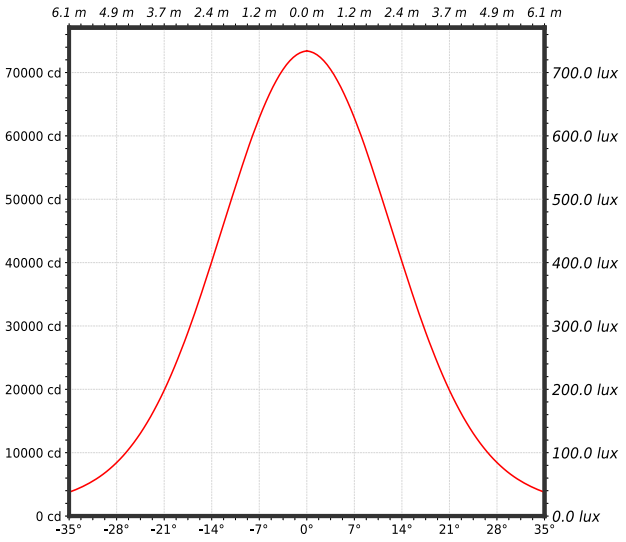
Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
30.1	58.3	27150	696	39.0

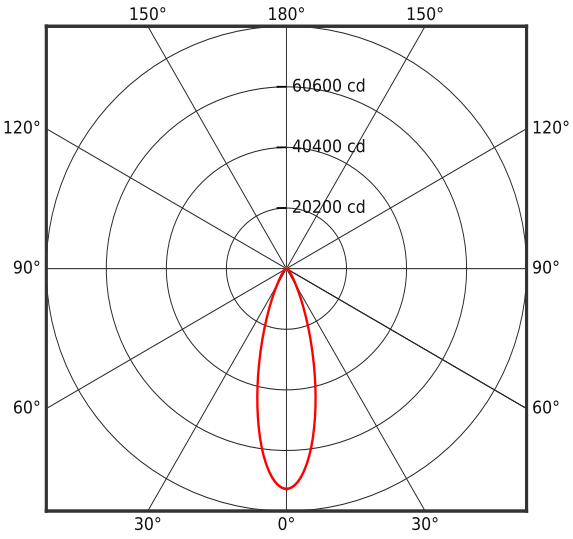
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	73417	2937	734	326	184
Diameter [m]	0.54	2.69	5.37	8.06	10.75

Light Distribution Diagrams / Illuminance





Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 140; PWM: 1500Hz; Optimization Mode: Brightness; Fan Mode: Auto
Filter:25°

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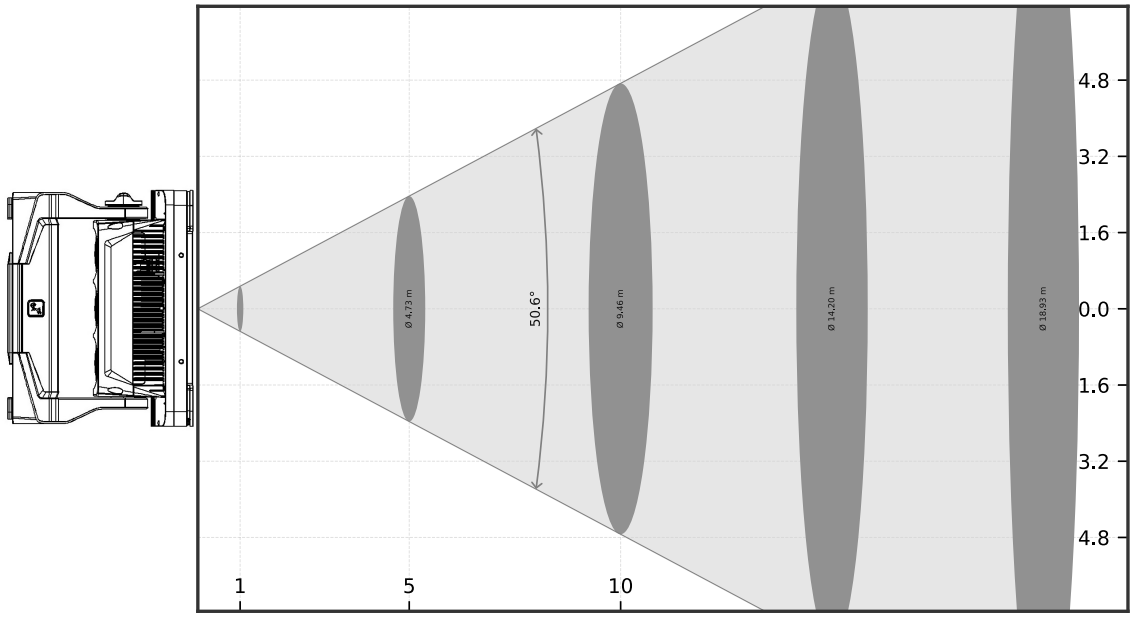
W600G2

45° Filter – Photometric Report

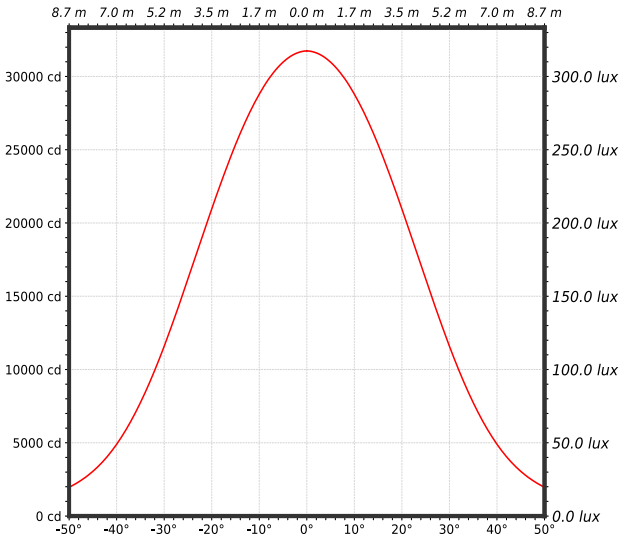
Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
50.6	89.1	26900	696	38.6

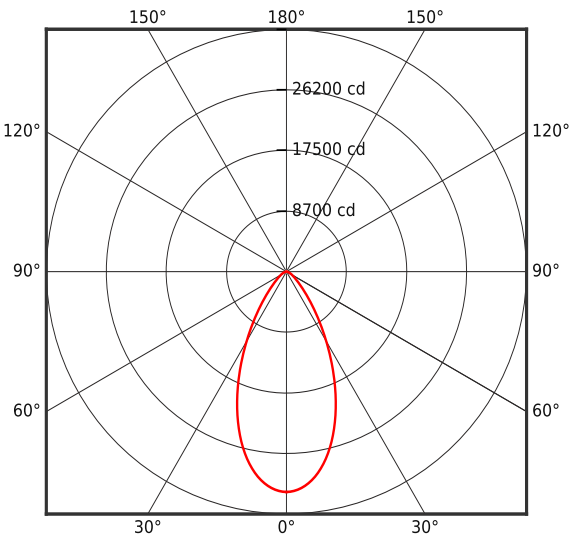
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	31746	1270	317	141	79
Diameter [m]	0.95	4.73	9.46	14.20	18.93

Light Distribution Diagrams / Illuminance





Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 140; PWM: 1500Hz; Optimization Mode: Brightness; Fan Mode: Auto
Filter:45°

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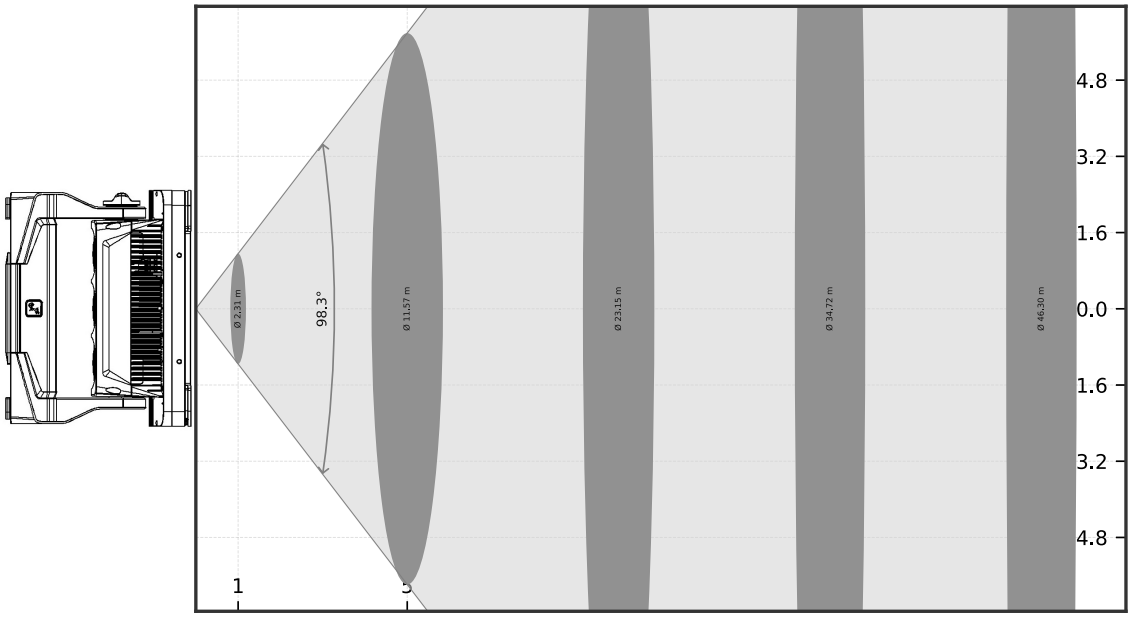
W600G2

100° Filter – Photometric Report

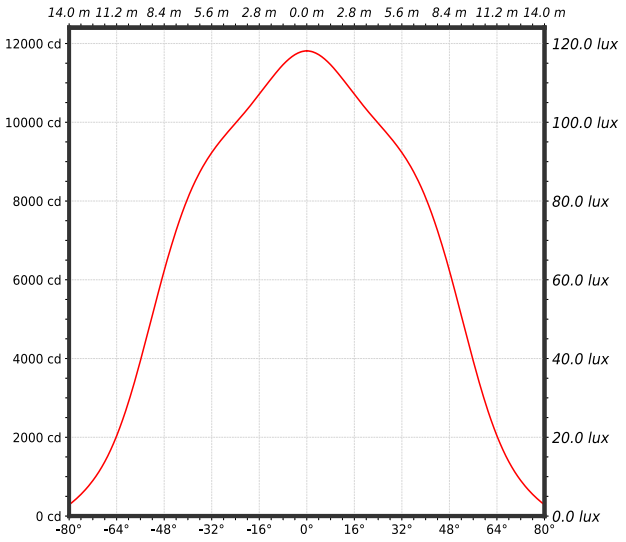
Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
98.3	139.0	26100	696	37.5

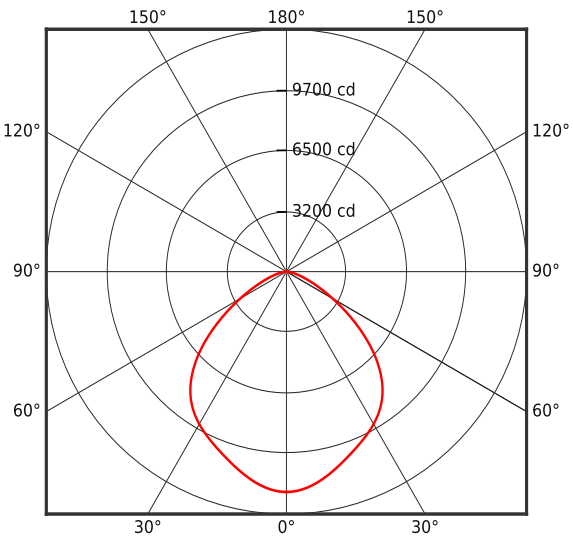
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	11813	473	118	53	30
Diameter [m]	2.31	11.57	23.15	34.72	46.30

Light Distribution Diagrams / Illuminance





Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 140; PWM: 1500Hz; Optimization Mode: Brightness; Fan Mode: Auto
Filter:100°

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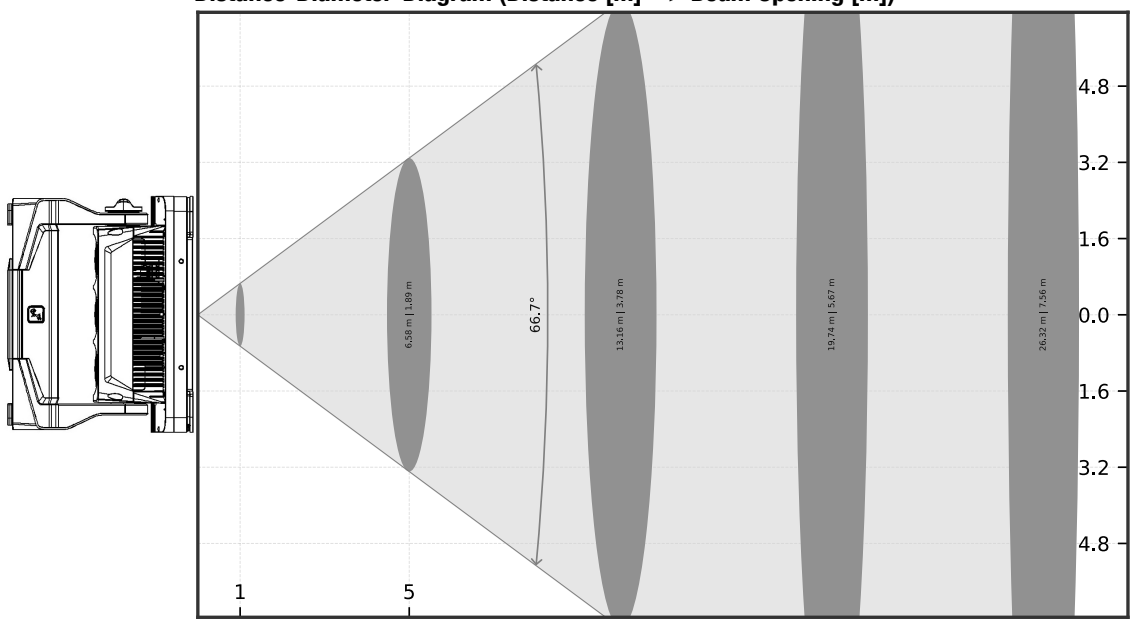
W600G2

60°x10° Filter – Photometric Report

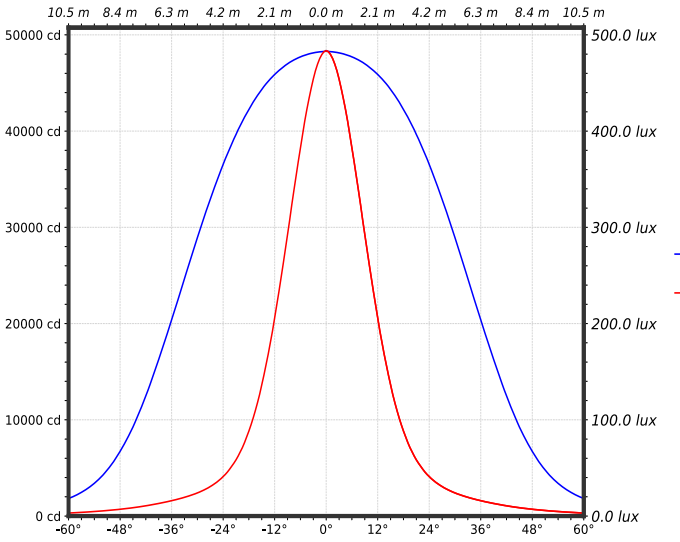
Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
66.7 | 21.4	101.8 | 45.1	26500	696	38.1

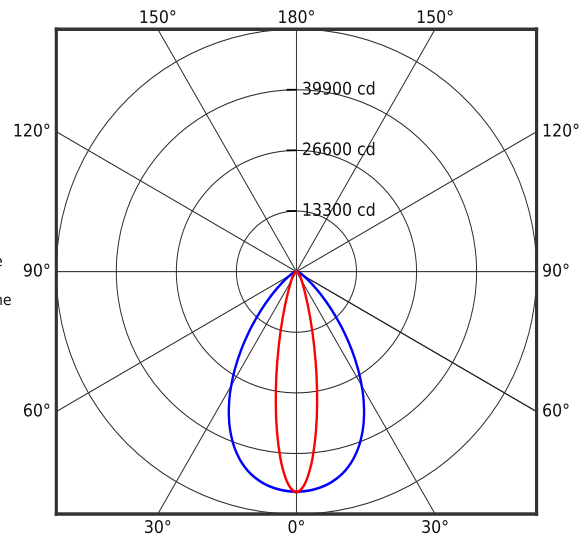
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	48335	1933	483	215	121
Diameter [m]	1.32 | 0.38	6.58 | 1.89	13.16 | 3.78	19.74 | 5.67	26.32 | 7.56

Light Distribution Diagrams / Illuminance





Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 140; PWM: 1500Hz; Optimization Mode: Brightness; Fan Mode: Auto
Filter:60°x10°

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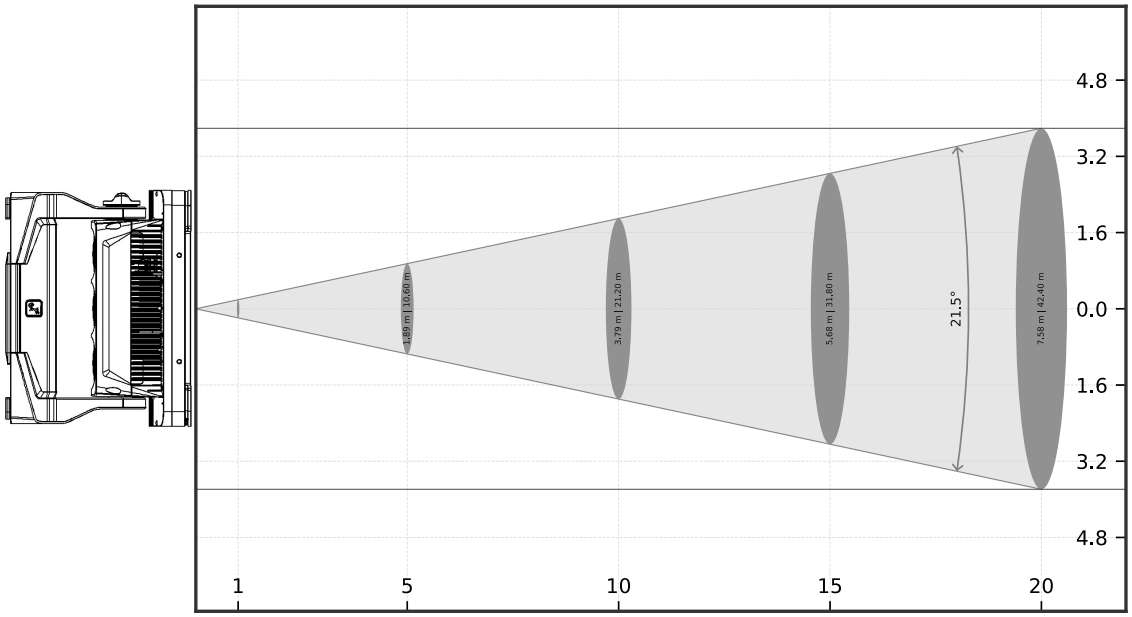
W600G2

10°x90° Filter – Photometric Report

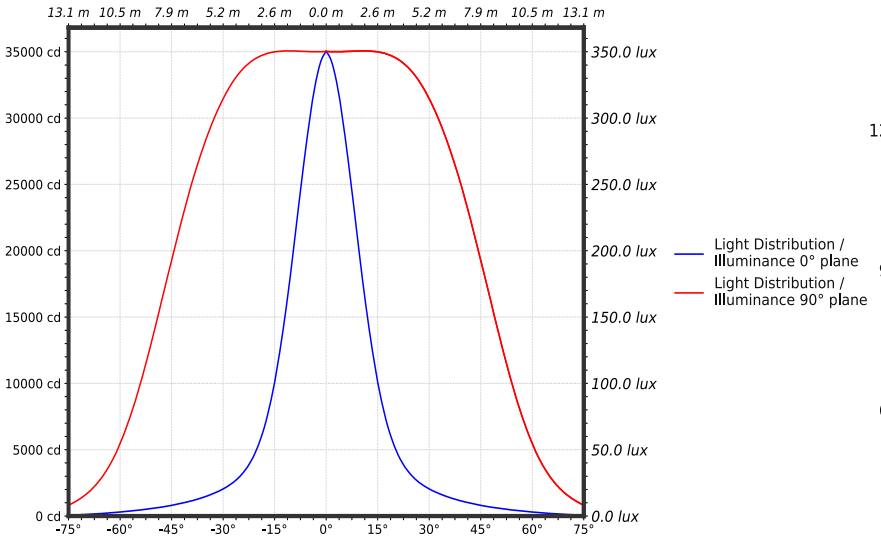
Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
21.5 | 93.3	46.9 | 127.5	26000	697	37.3

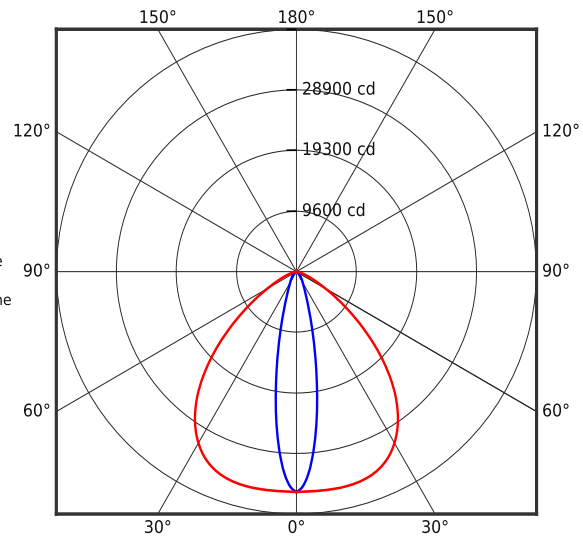
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	35025	1401	350	156	88
Diameter [m]	0.38 | 2.12	1.89 | 10.60	3.79 | 21.20	5.68 | 31.80	7.58 | 42.40

Light Distribution Diagrams / Illuminance





Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 140; PWM: 1500Hz; Optimization Mode: Brightness; Fan Mode: Auto
Filter:10°x90°

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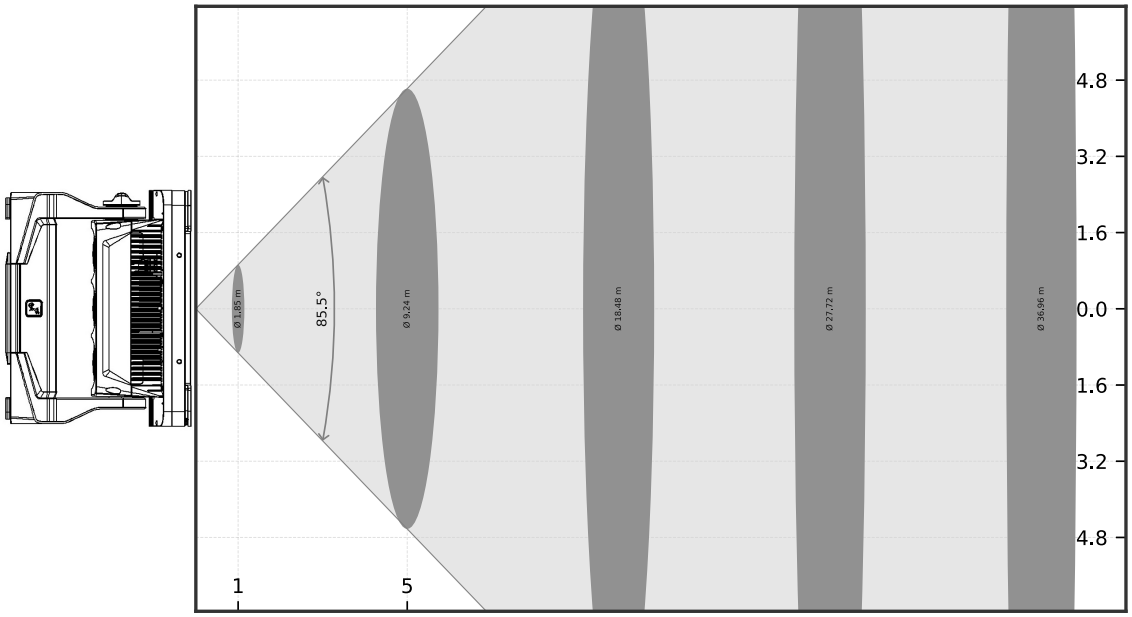
W600G2

Softbox including 100° Filter – Photometric Report

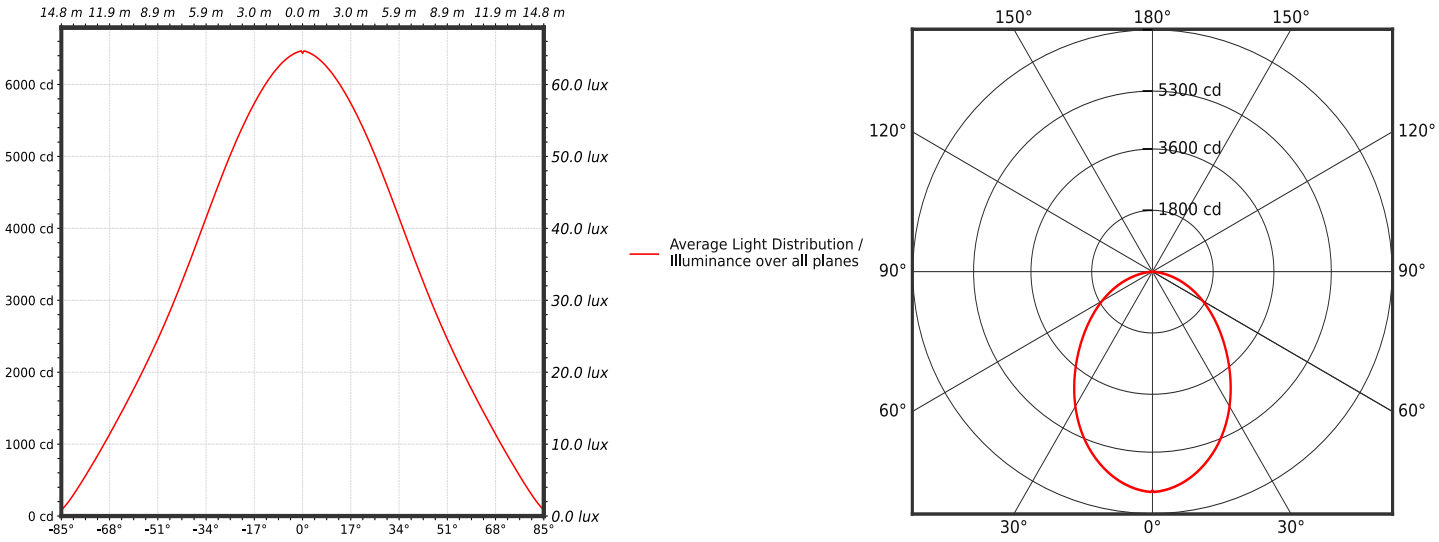
Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
85.5	150.3	13500	681	19.8

Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	6438	258	64	29	16
Diameter [m]	1.85	9.24	18.48	27.72	36.96

Light Distribution Diagrams / Illuminance



Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 140; PWM: 1500Hz; Optimization Mode: Brightness; Fan Mode: Auto
Filter:Softbox including 100° Filter

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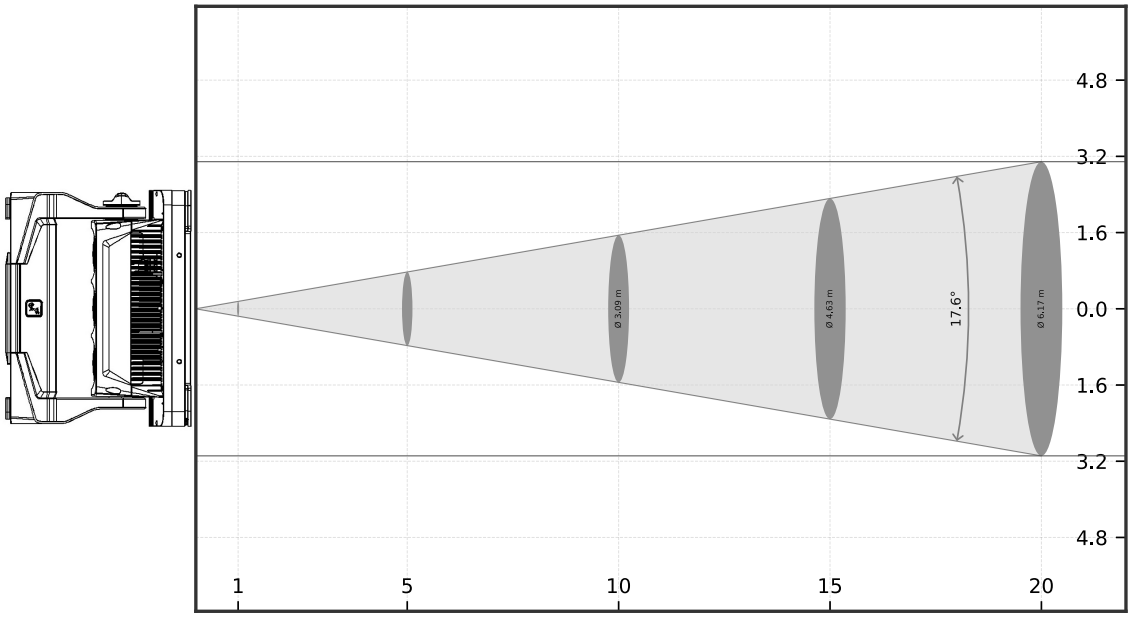
W600G2

Electronic-Frost Open – Photometric Report

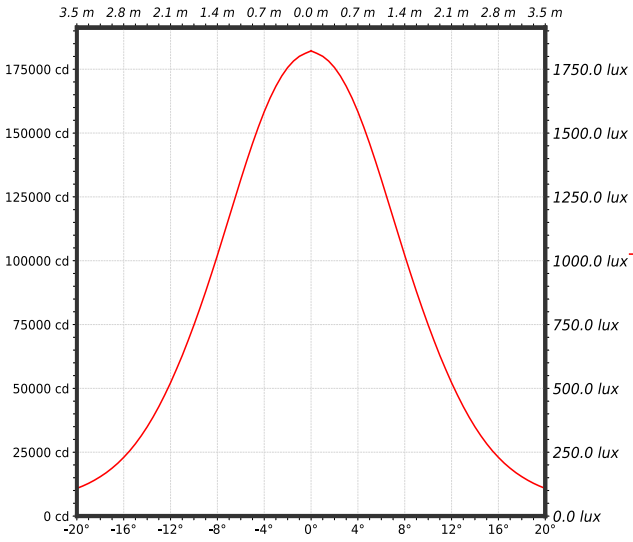
Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
17.6	34.3	27000	697	38.7

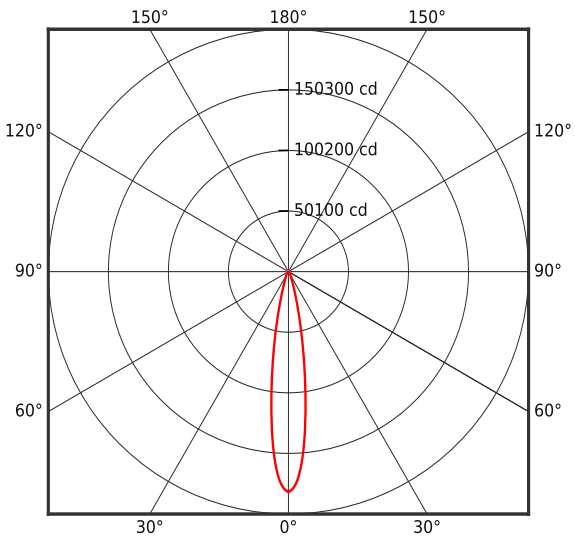
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	182180	7287	1822	810	455
Diameter [m]	0.31	1.54	3.09	4.63	6.17

Light Distribution Diagrams / Illuminance





Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 140; PWM: 1500Hz; Optimization Mode: Brightness; Fan Mode: Auto
Filter:Electronic-Frost Open (DMX000)

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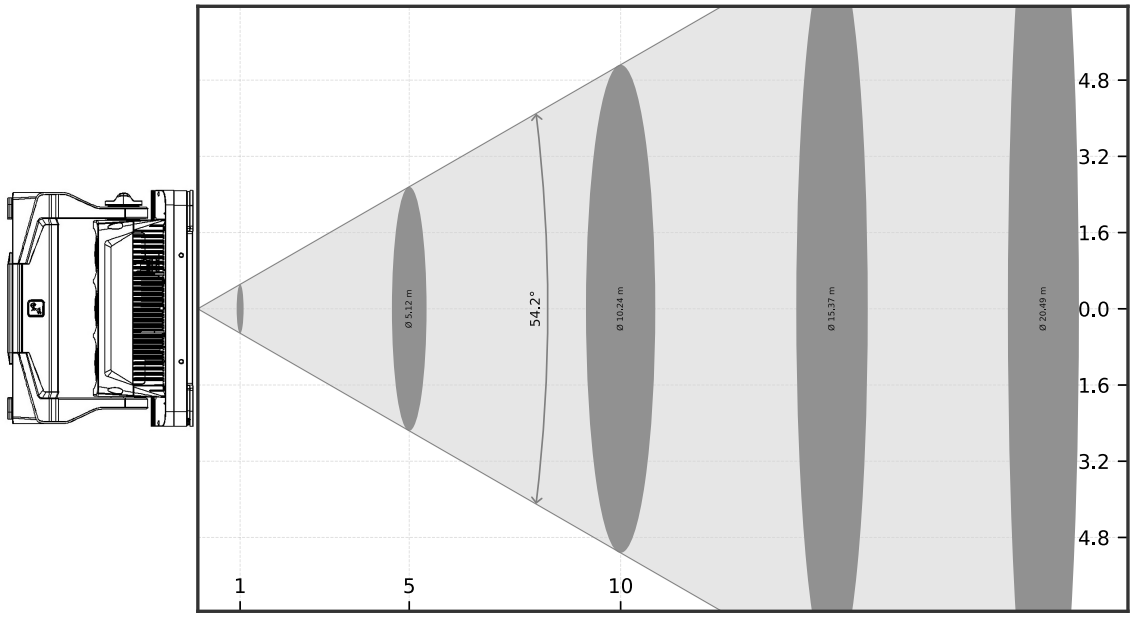
W600G2

Electronic-Frost Fully Diffusing – Photometric Report

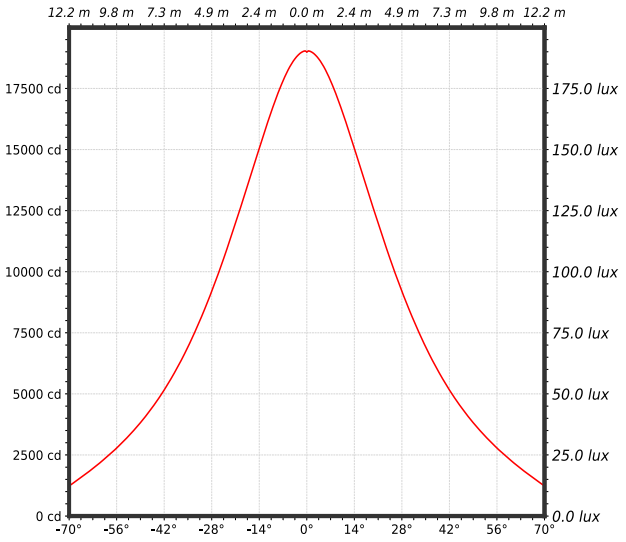
Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
54.2	126.8	23700	697	34.0

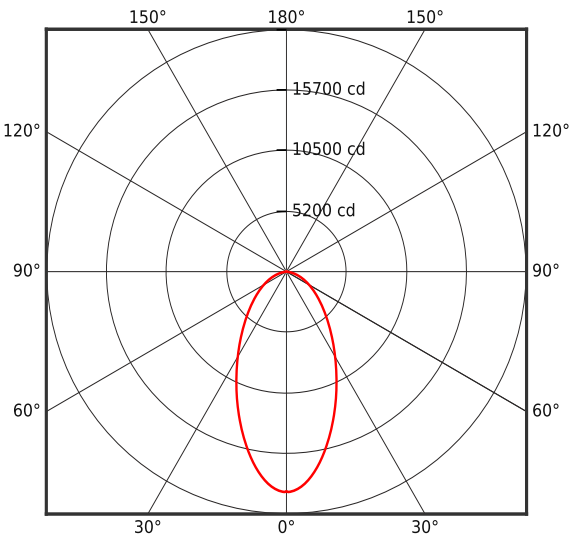
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	18999	760	190	84	47
Diameter [m]	1.02	5.12	10.24	15.37	20.49

Light Distribution Diagrams / Illuminance





Device Settings:14CH Direct CCT; Dimmer: 100%; RGBALC: 100%; CCT: 140; PWM: 1500Hz; Optimization Mode: Brightness; Fan Mode: Auto
Filter:Electronic-Frost Fully Diffusing (DMX255)

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