

OTOS® L16

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-l, 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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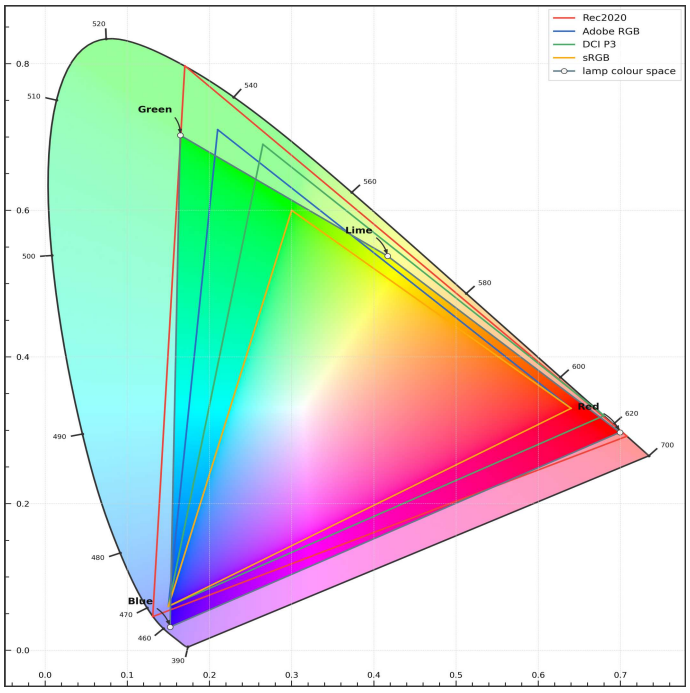
Overview

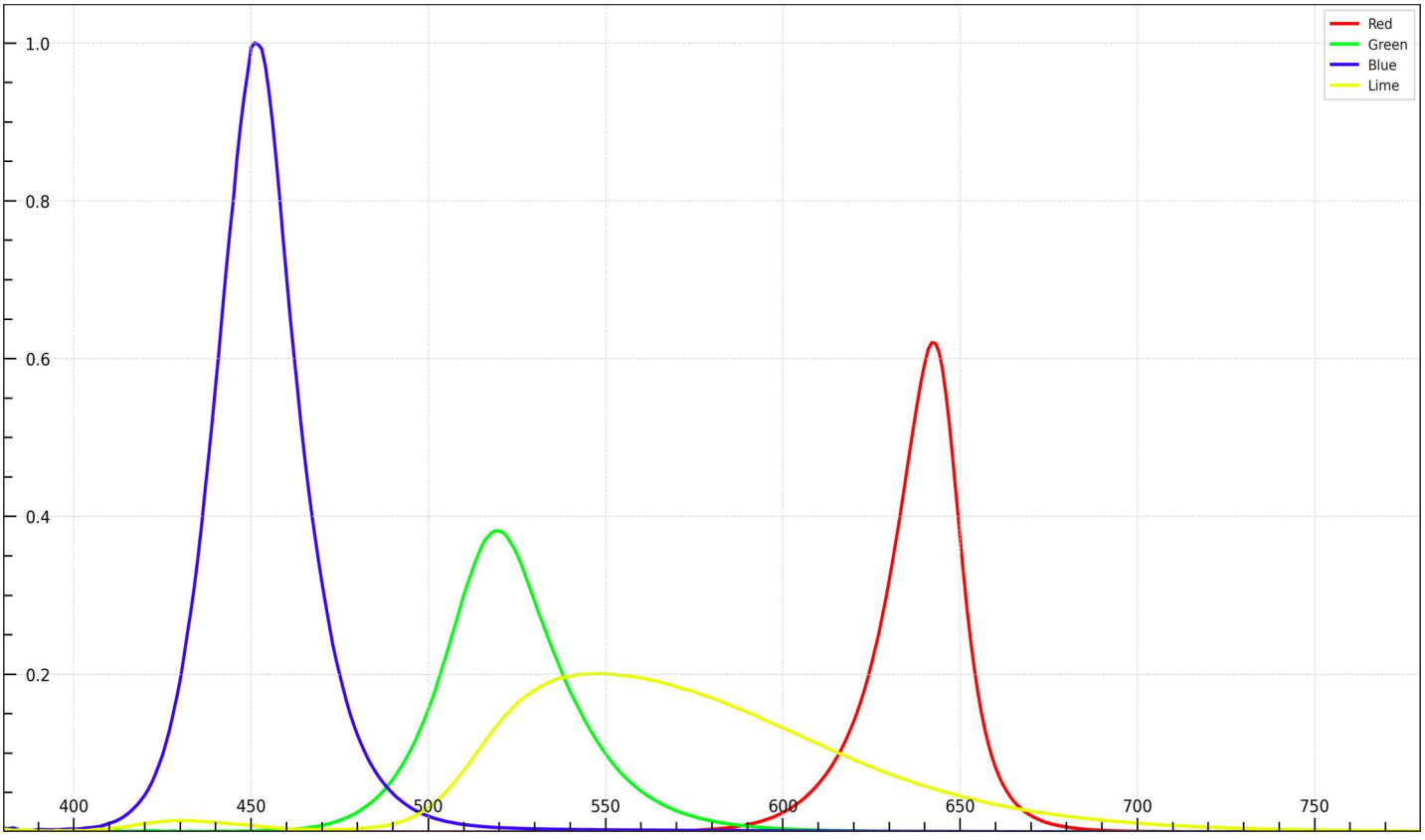
LED Colours	Lum flux [lm]	x	y
Red	1399	0.6994	0.2973
Green	4483	0.1644	0.7024
Blue	750	0.1521	0.0319
Lime	6211	0.4167	0.5377

Colour space	Coverage [%]
Rec2020	87.0
Adobe RGB	97.9
DCI P3	94.3
sRGB	100.0

CIE 1931 Chromaticity Diagram - 2° Standard Observer



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



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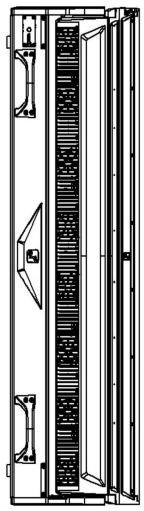
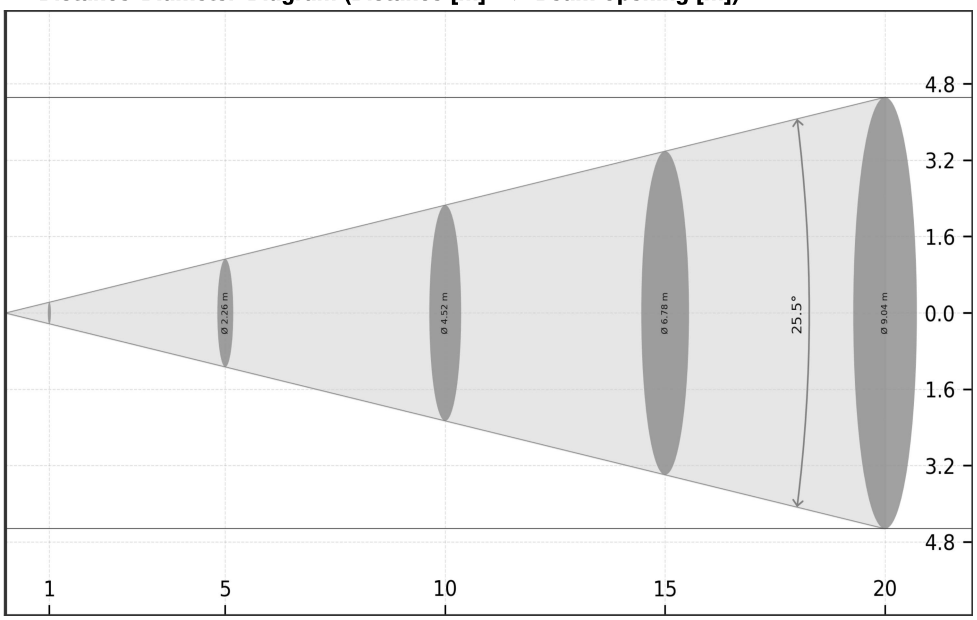
Zoom Wide Full On – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
25.5	38.0	9309	665	14.0

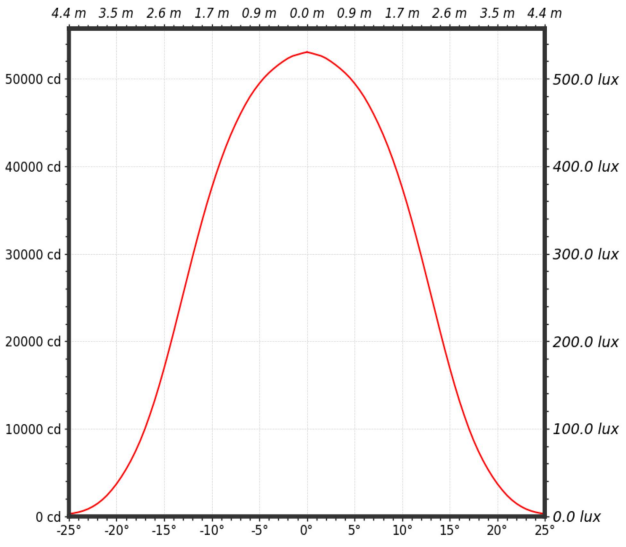


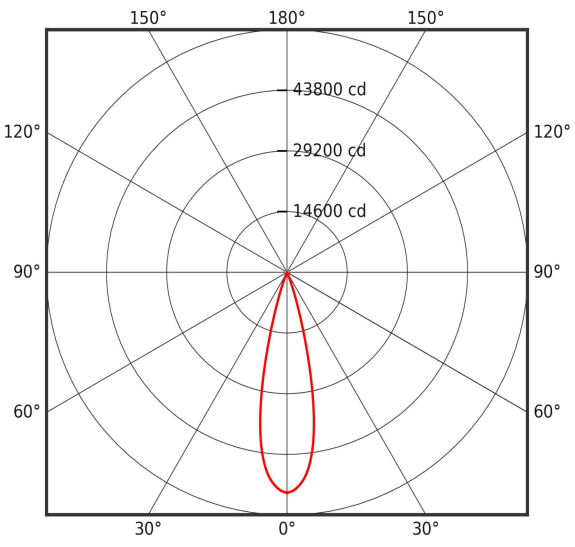
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	53048	2122	530	236	133
Diameter [m]	0.45	2.26	4.52	6.78	9.04

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 000; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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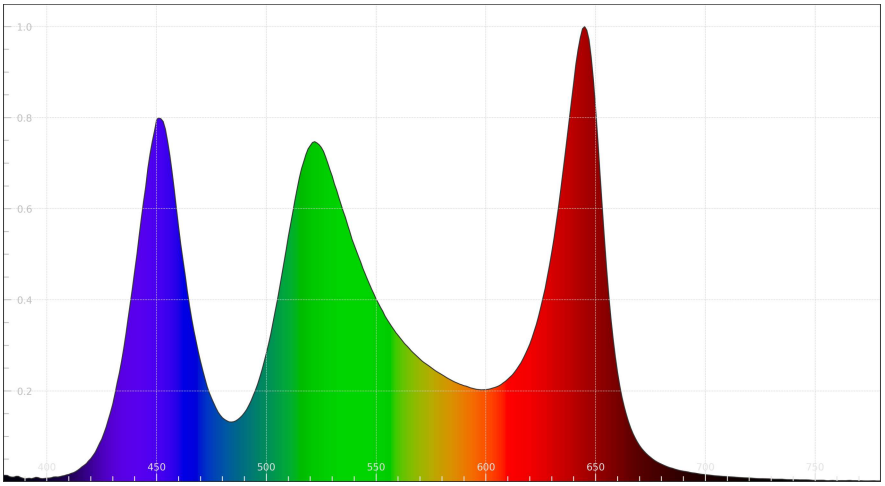
Zoom Wide Full On – Colorimetric Report

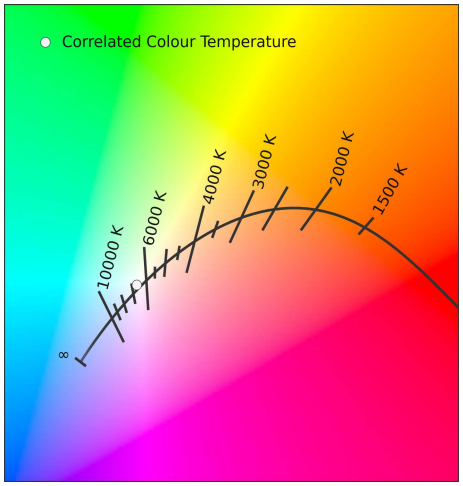
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	6651	Luminous Flux [lm]	**Lum Flux**	9309
Colour Deviation from Black	**D_{uv}**	0.0142	Colour Rendering Index	**CRI Ra**	77
Colour Coordinate CIE 1931	**x**	0.3073	Red Component	**CRI R9**	-21
Colour Coordinate CIE 1931	**y**	0.3459	Colour Fidelity	**TM30 R_f**	82
Colour Coordinate CIE 1976	**u'**	0.1881	Colour Gamut	**TM30 R_g**	110
Colour Coordinate CIE 1976	**v'**	0.4763	Television Lighting Consistency Index	**TLCI**	3
Spectral Similarity Index	**SSI[CIE D6651]**	49			

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

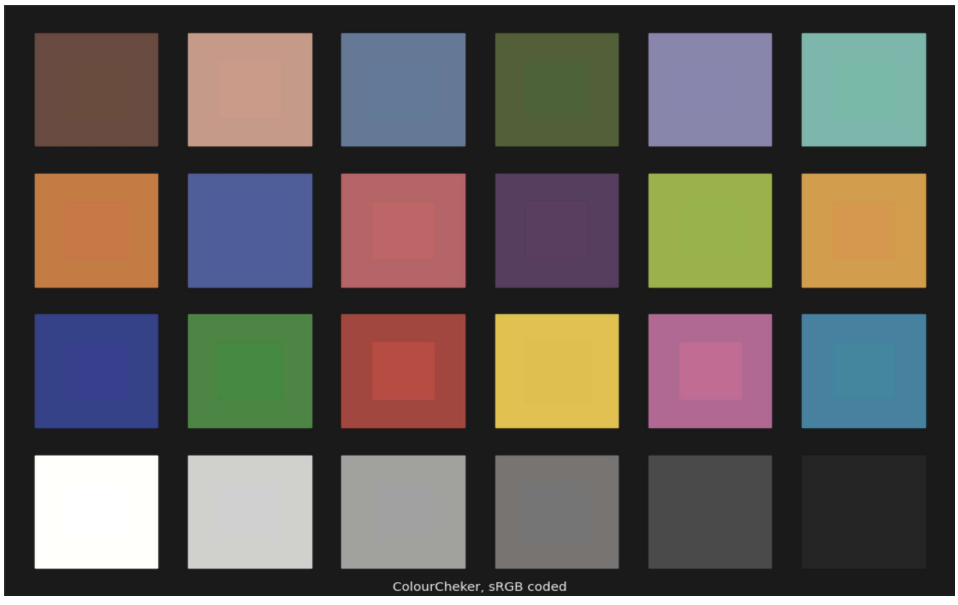


Colour Temperature

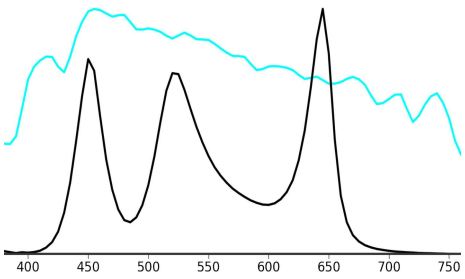


Television Lighting Consistency Index-2012

CCT = D6651 (2.6) TLCI-2012 : 3 (D6651)



Sector	Lightness	Chroma	Hue
R	-----	---	0
R/Y	0	-	++
Y	0	0	0
Y/G	0	-	--
G	-	--	-
G/C	0	---	++
C	0	-	11*-
C/B	0	0	24*-
B	0	--	-
B/M	0	0	0
M	-	-	---
M/R	-----	--	---



Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 000; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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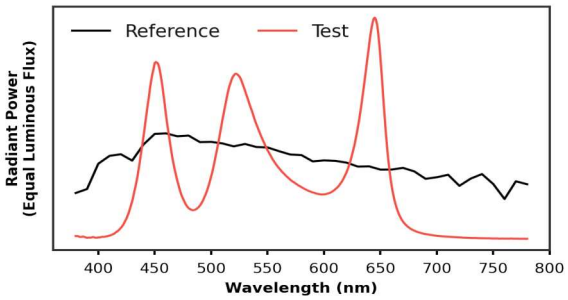
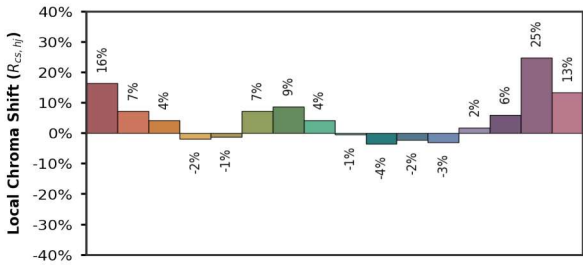
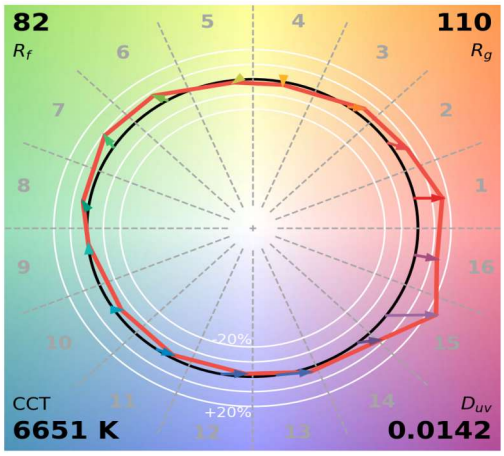
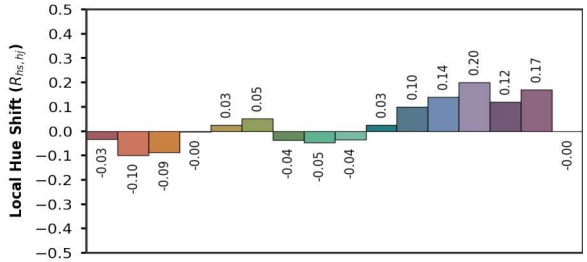
Zoom Wide Full On – Colorimetric Report

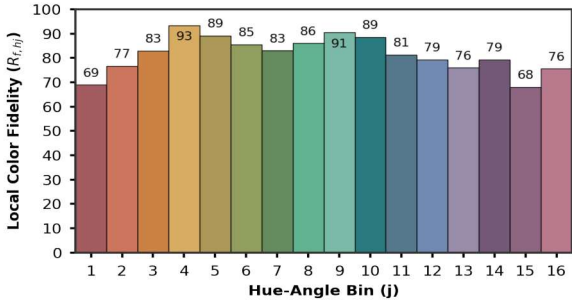
IES TM-30-18 Colour Rendition Report

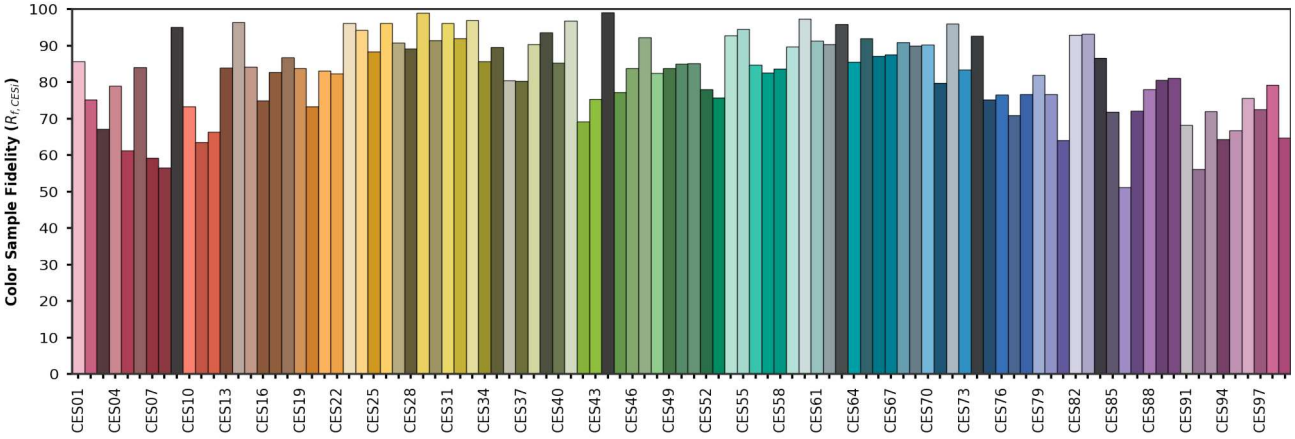












x	0.3073
y	0.3459
u′	0.1881
v′	0.4763

CIE 13.31-1995 (CRI)
R_a 77
R_9 -21

Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 000; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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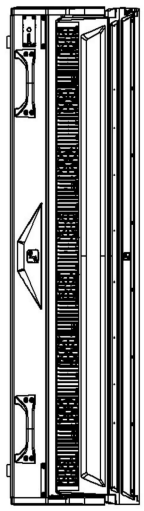
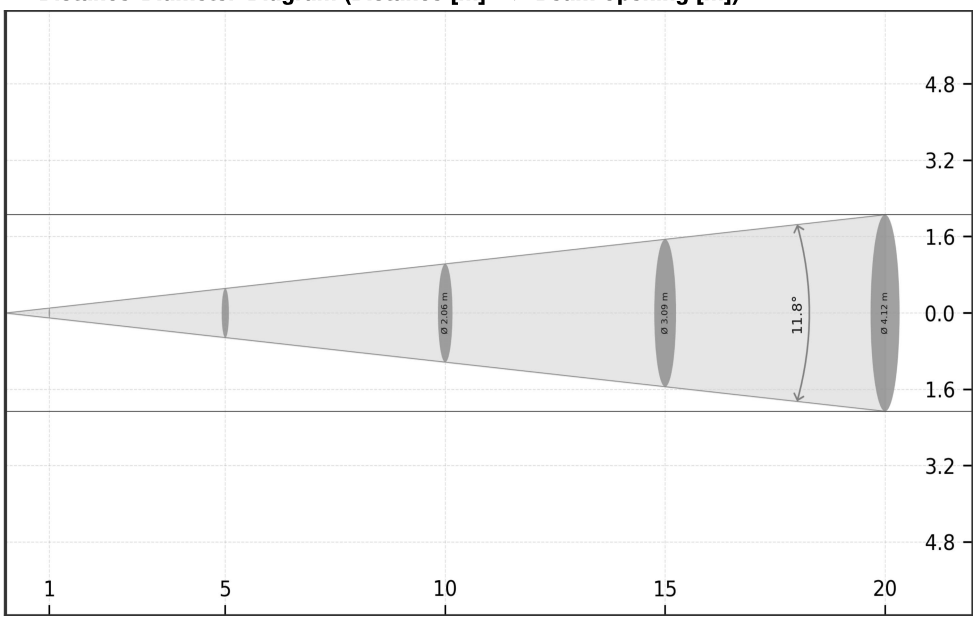
Zoom Mid Full On – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
11.8	18.8	8196	666	12.3

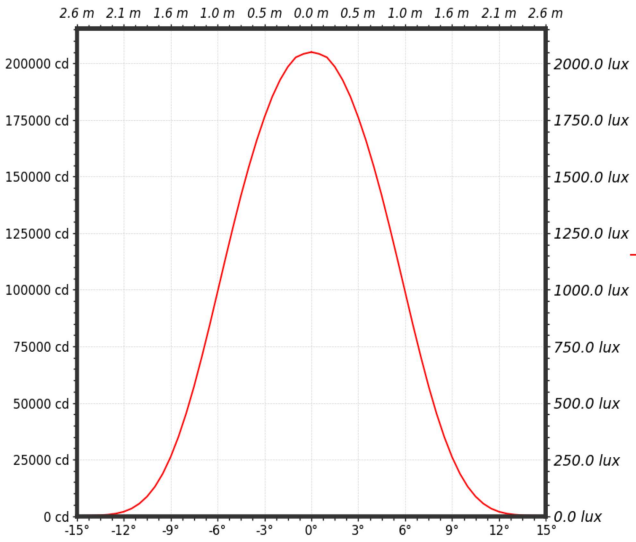


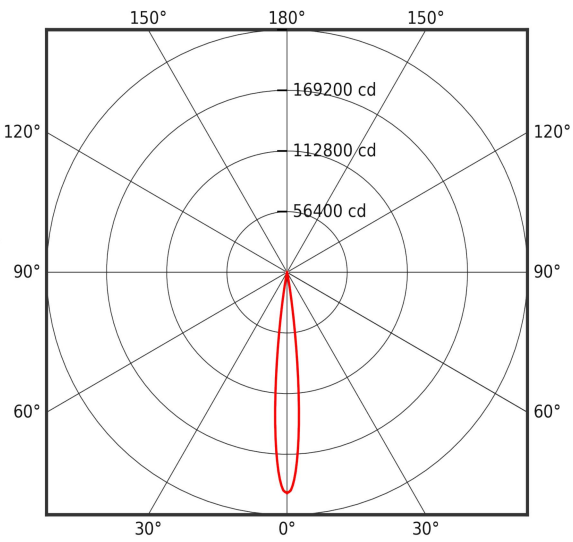
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	204239	8170	2042	908	511
Diameter [m]	0.21	1.03	2.06	3.09	4.12

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 000; PWM: 1530Hz; Fan Mode: Auto; Zoom: 128

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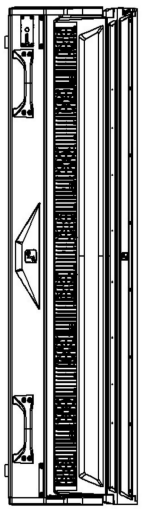
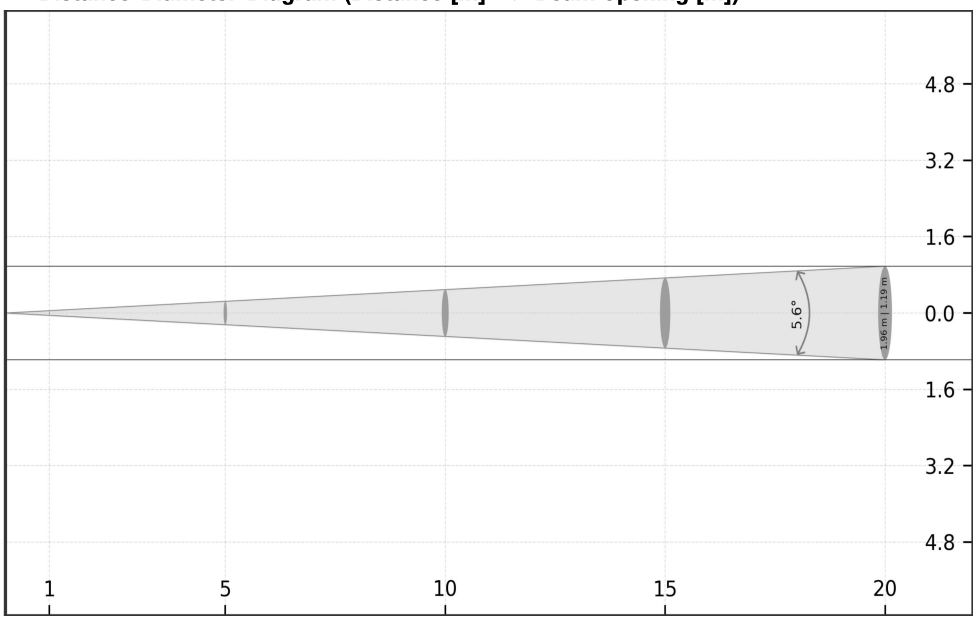
Zoom Narrow Full On – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
5.6 I 3.4	8.6 I 4.8	6259	666	9.4

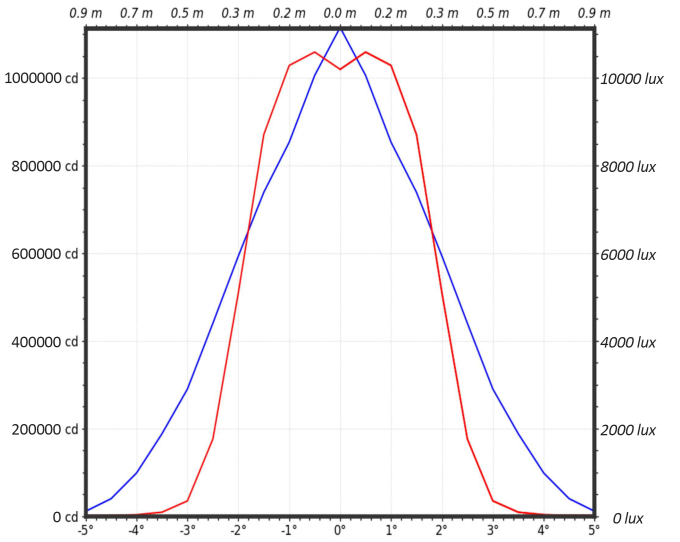


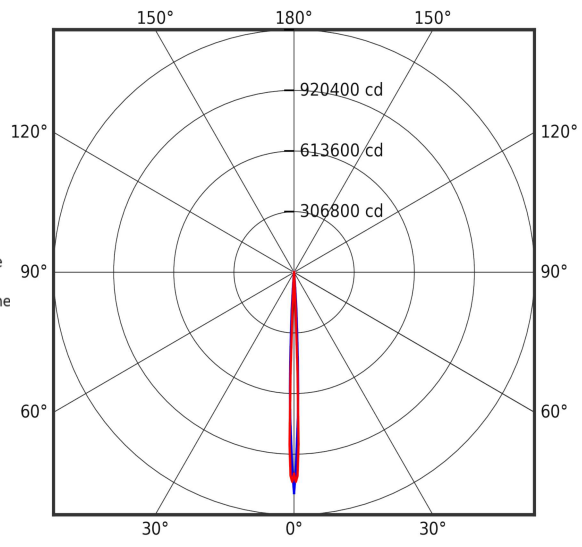
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	1020087	40803	10201	4534	2550
Diameter [m]	0.10 I 0.06	0.49 I 0.30	0.98 I 0.60	1.47 I 0.90	1.96 I 1.19

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 000; PWM: 1530Hz; Fan Mode: Auto; Zoom: 000

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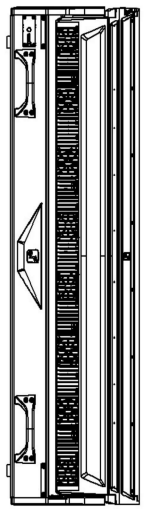
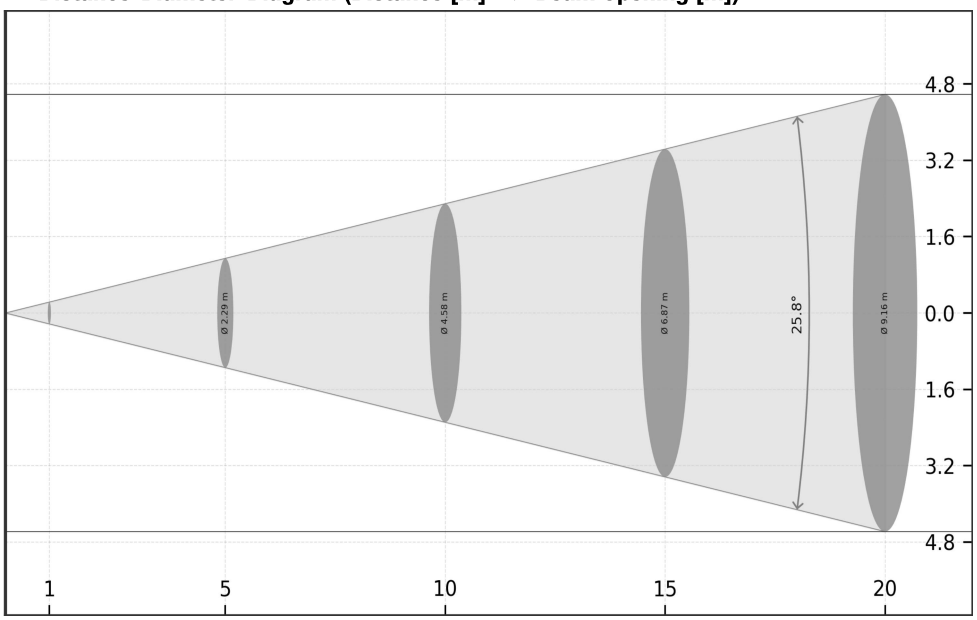
Zoom Wide 5600K – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
25.8	38.1	8067	490	16.5

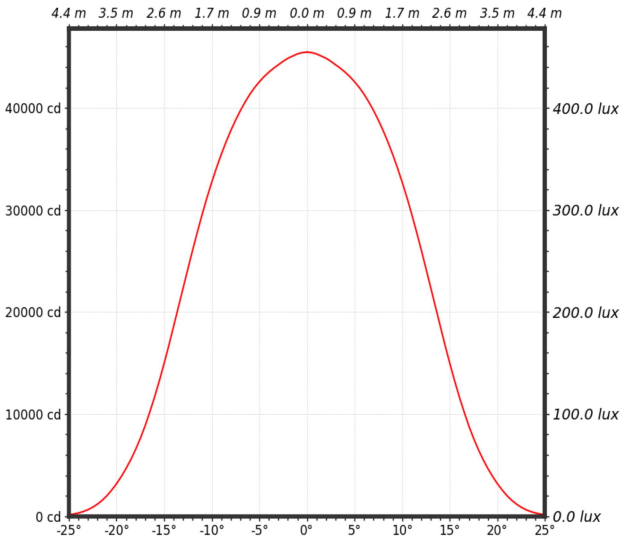


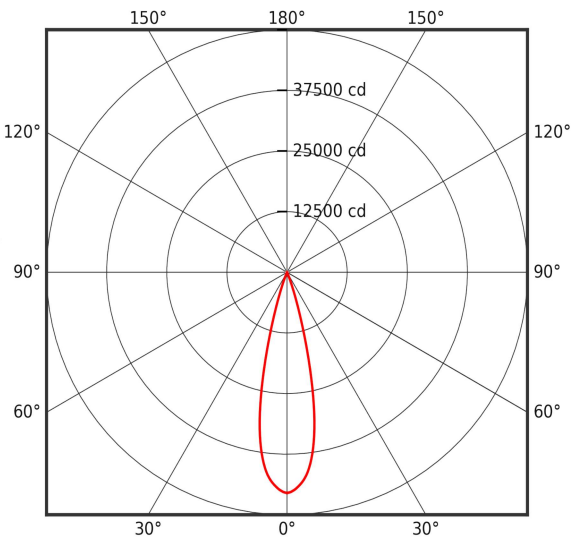
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	45465	1819	455	202	114
Diameter [m]	0.46	2.29	4.58	6.87	9.16

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 170; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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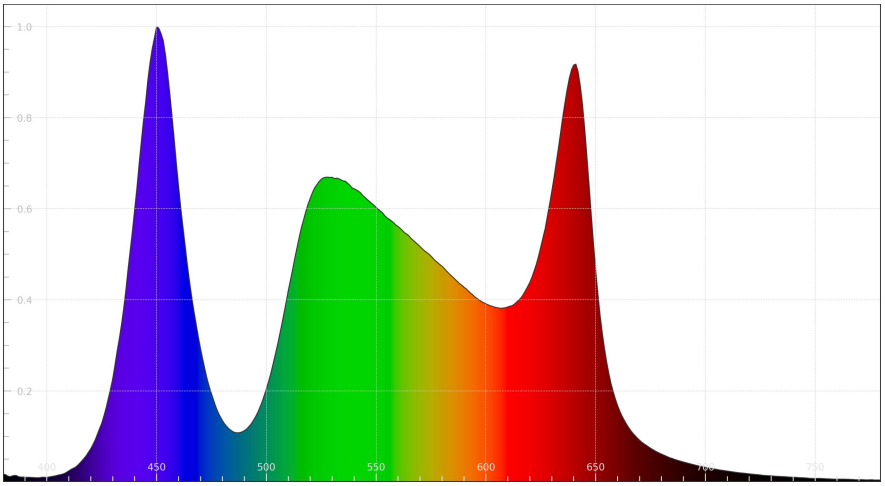
Zoom Wide 5600K – Colorimetric Report

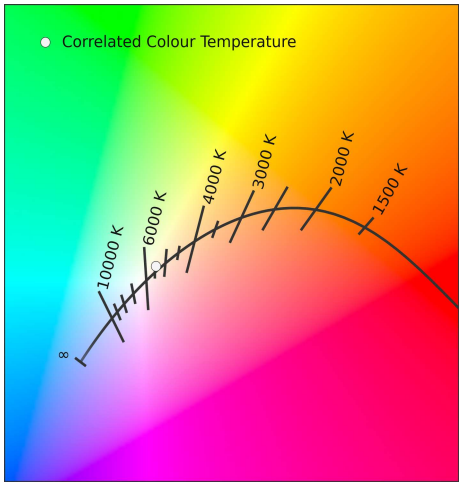
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	5449	Luminous Flux [lm]	**Lum Flux**	8067
Colour Deviation from Black	**D_{uv}**	0.0024	Colour Rendering Index	**CRI Ra**	84
Colour Coordinate CIE 1931	**x**	0.3337	Red Component	**CRI R9**	86
Colour Coordinate CIE 1931	**y**	0.3469	Colour Fidelity	**TM30 R_f**	83
Colour Coordinate CIE 1976	**u'**	0.2055	Colour Gamut	**TM30 R_g**	106
Colour Coordinate CIE 1976	**v'**	0.4807	Television Lighting Consistency Index	**TLCI**	78
Spectral Similarity Index	**SSI[CIE D5449]**	61			

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



Colour Temperature

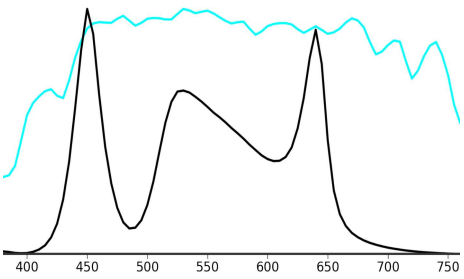


Television Lighting Consistency Index-2012

CCT = D5449 (0.4) TLCI-2012 : 78 (D5449)



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



Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 170; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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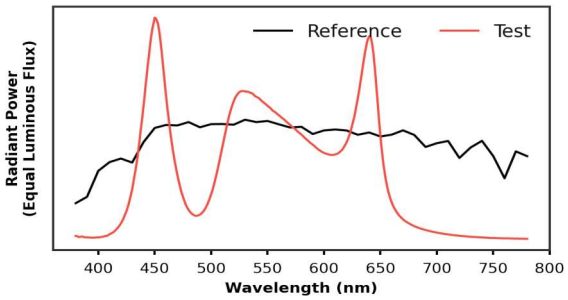
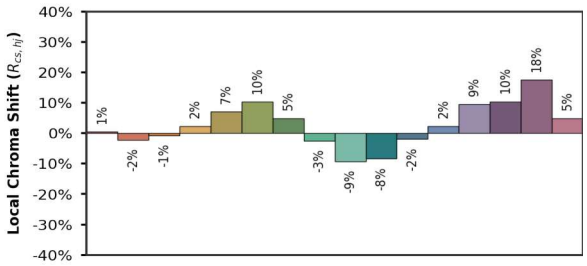
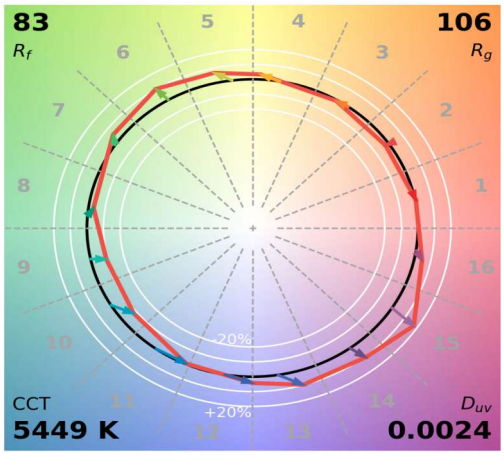
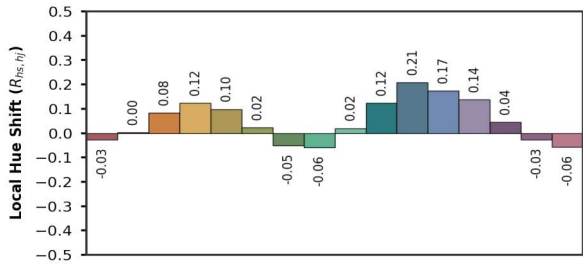
Zoom Wide 5600K – Colorimetric Report

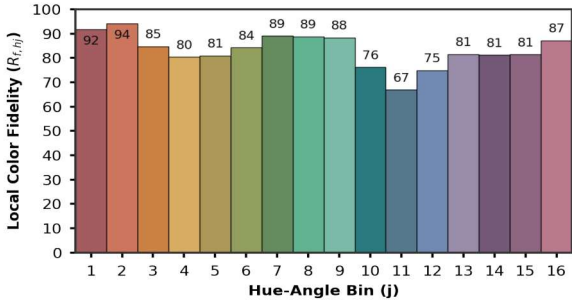
IES TM-30-18 Colour Rendition Report

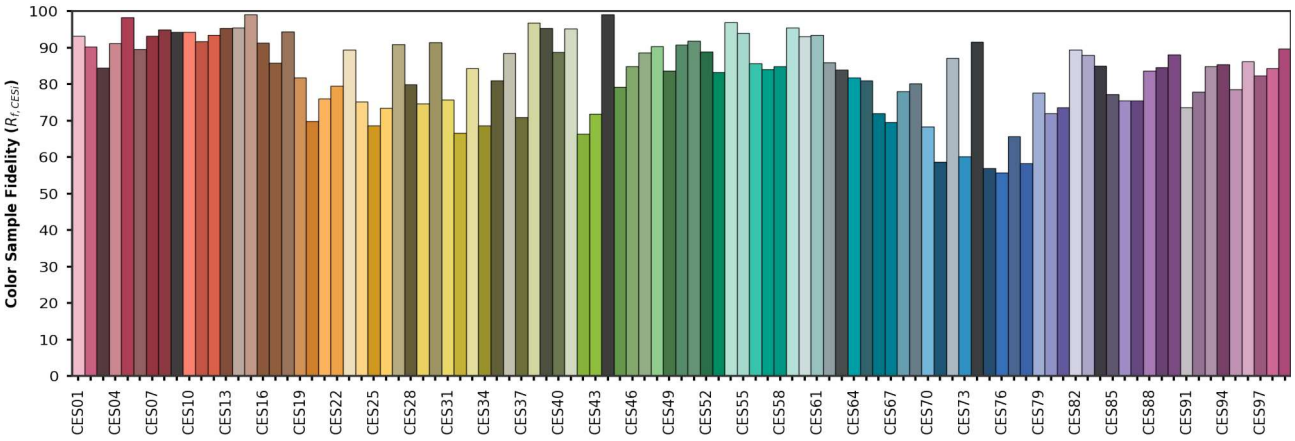












x	0.3337
y	0.3469
u′	0.2055
v′	0.4807

CIE 13.31-1995 (CRI)
R_a **84**
R_9 **86**

Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 170; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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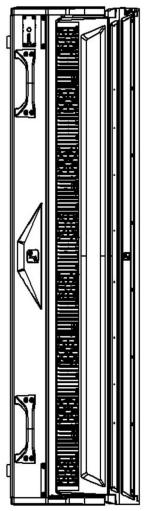
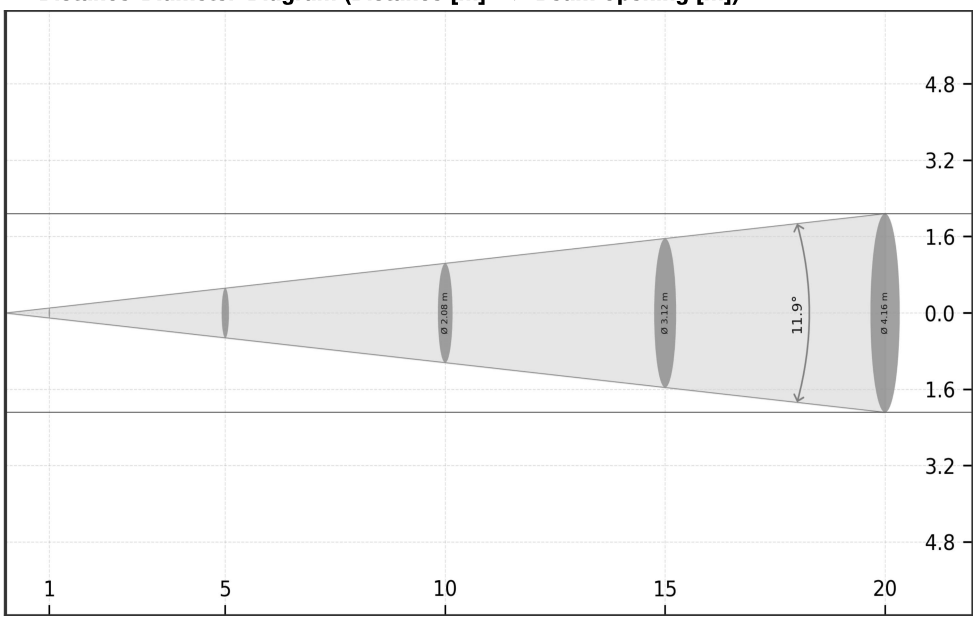
Zoom Mid 5600K – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
11.9	18.8	7166	490	14.6

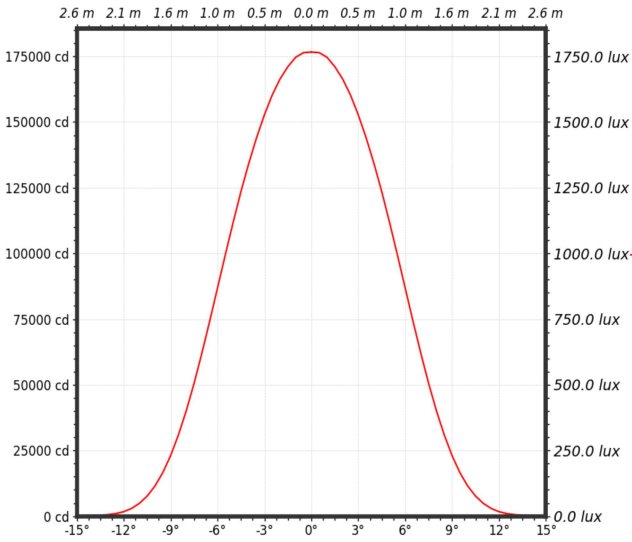


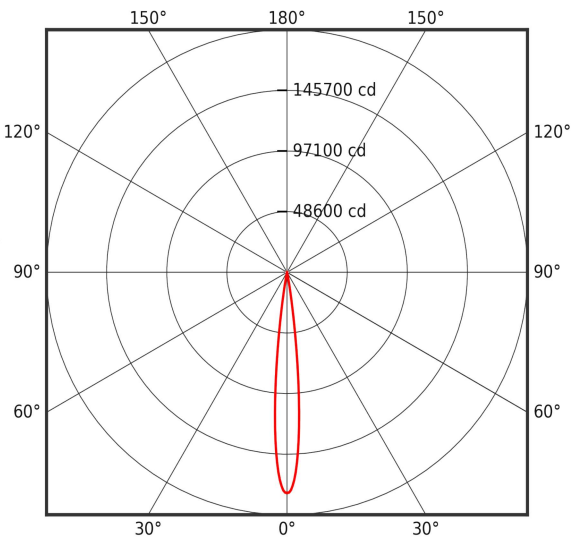
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	176401	7056	1764	784	441
Diameter [m]	0.21	1.04	2.08	3.12	4.16

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 170; PWM: 1530Hz; Fan Mode: Auto; Zoom: 128

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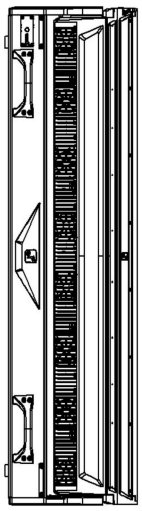
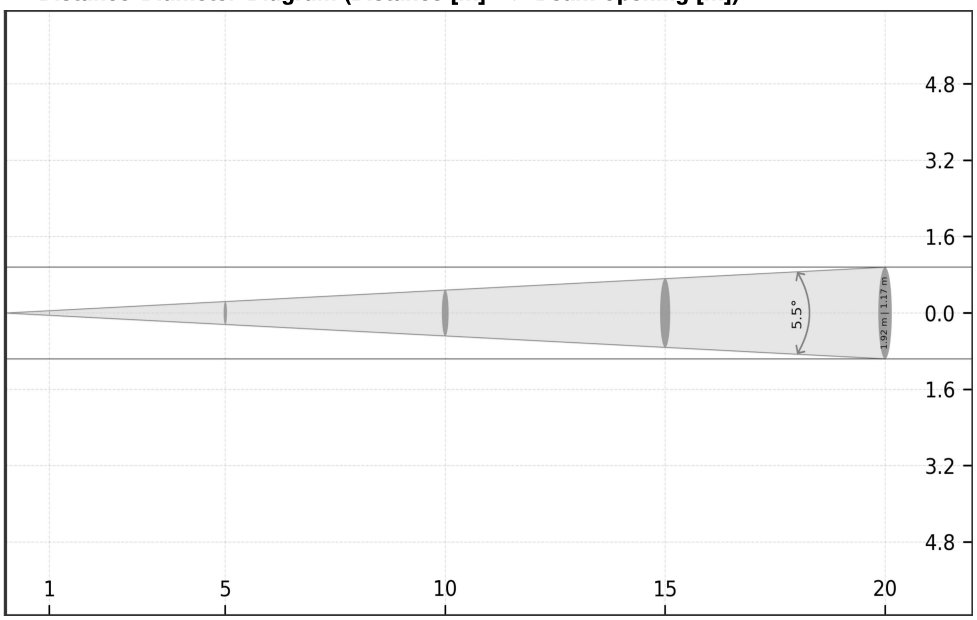
Zoom Narrow 5600K – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
5.5 I 3.4	8.6 I 4.8	5420	490	11.1

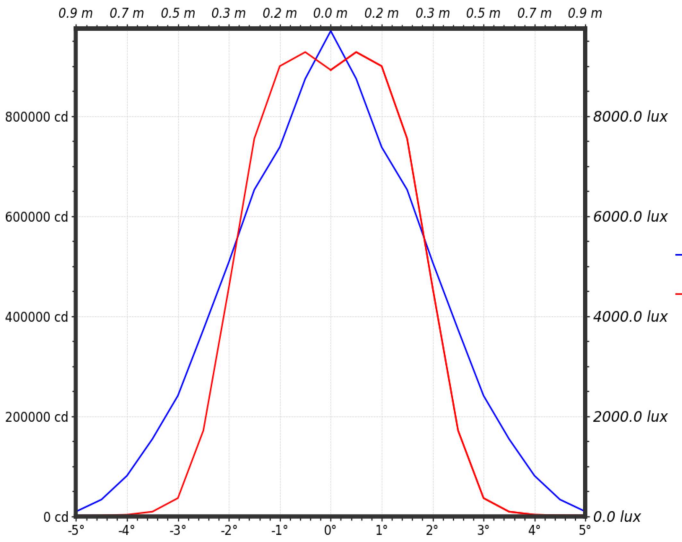


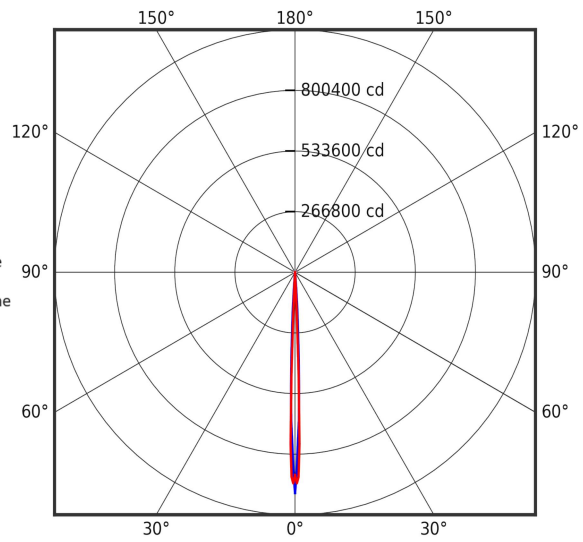
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	892143	35686	8921	3965	2230
Diameter [m]	0.10 I 0.06	0.48 I 0.29	0.96 I 0.59	1.44 I 0.88	1.92 I 1.17

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 170; PWM: 1530Hz; Fan Mode: Auto; Zoom: 000

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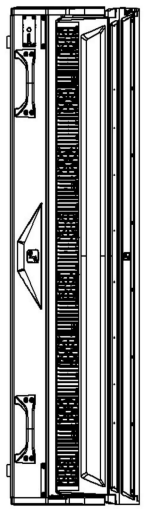
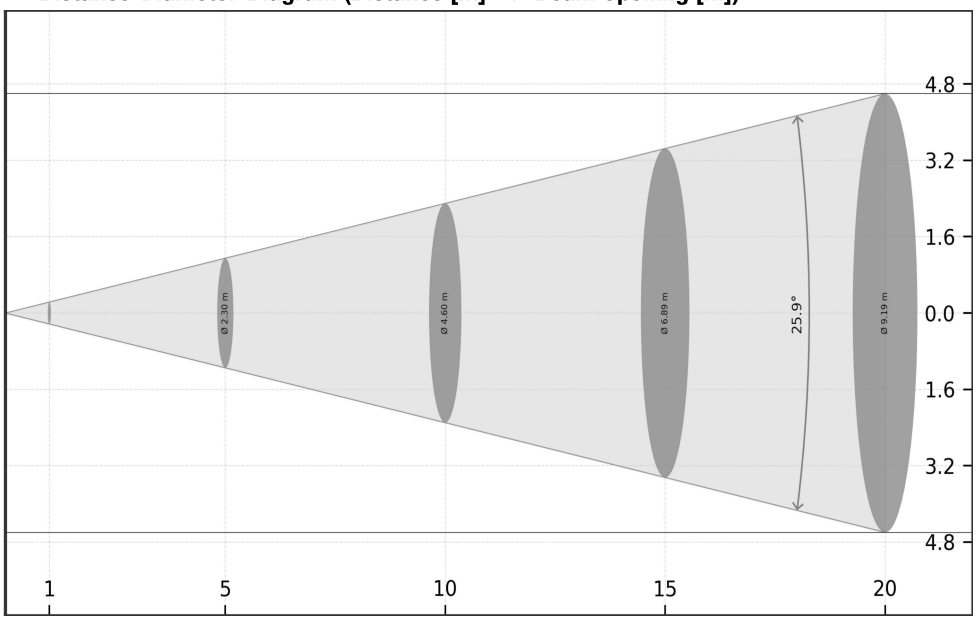
Zoom Wide 3200K – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
25.9	38.2	7462	471	15.9

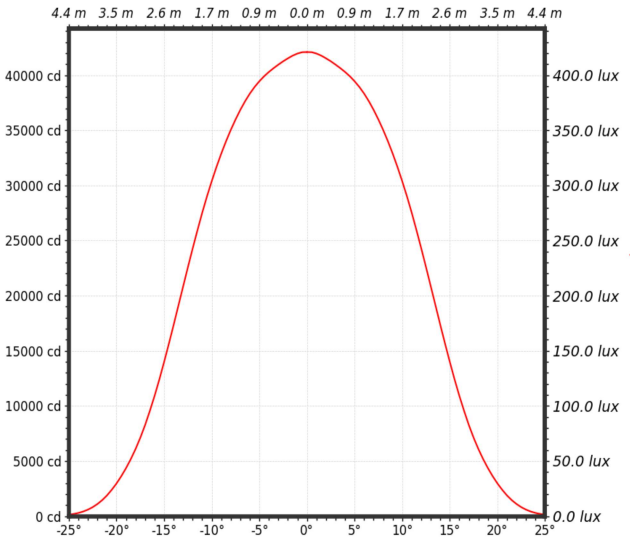


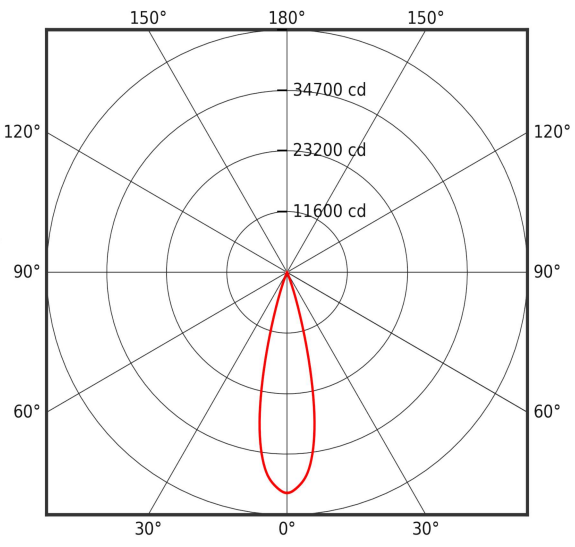
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	42097	1684	421	187	105
Diameter [m]	0.46	2.30	4.60	6.89	9.19

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 088; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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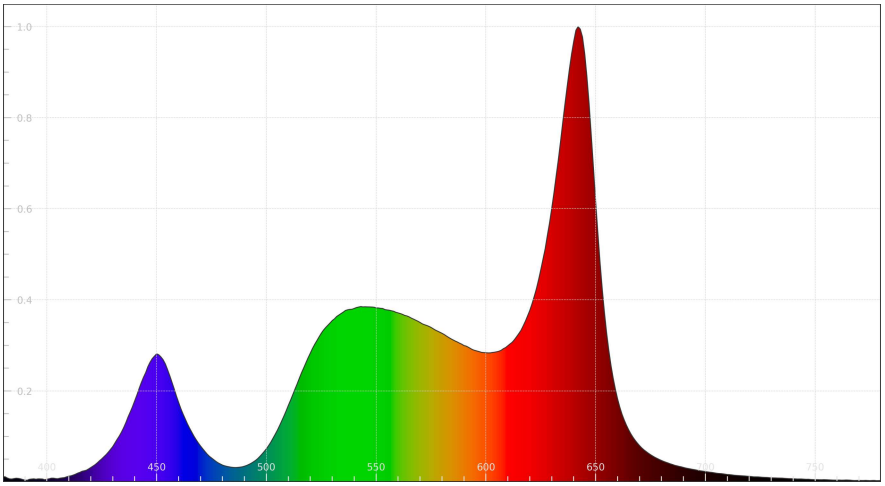
Zoom Wide 3200K – Colorimetric Report

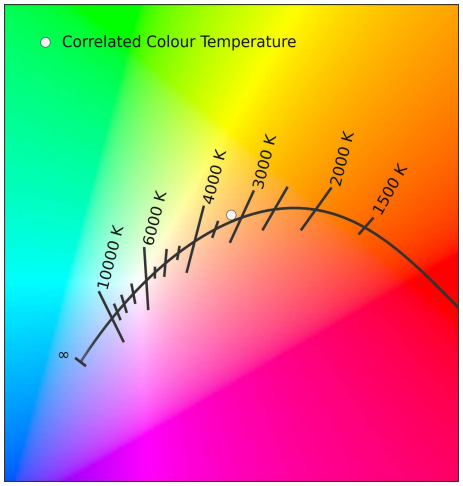
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	3241	Luminous Flux [lm]	**Lum Flux**	7462
Colour Deviation from Black	**D_{uv}**	0.0025	Colour Rendering Index	**CRI Ra**	83
Colour Coordinate CIE 1931	**x**	0.4239	Red Component	**CRI R9**	58
Colour Coordinate CIE 1931	**y**	0.4051	Colour Fidelity	**TM30 R_f**	83
Colour Coordinate CIE 1976	**u'**	0.2417	Colour Gamut	**TM30 R_g**	109
Colour Coordinate CIE 1976	**v'**	0.5199	Television Lighting Consistency Index	**TLCI**	74
Spectral Similarity Index	**SSI[P3241]**	65			

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



Colour Temperature

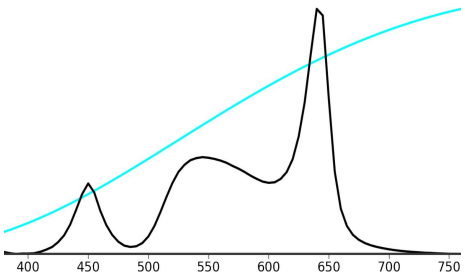


Television Lighting Consistency Index-2012

CCT = P3241 (0.5) TLCI-2012 : 74 (P3241)



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



Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 088; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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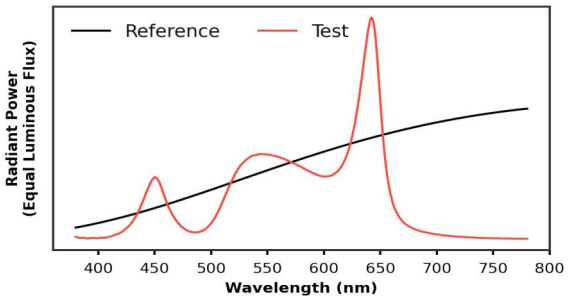
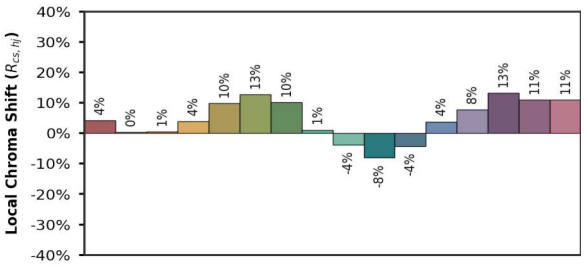
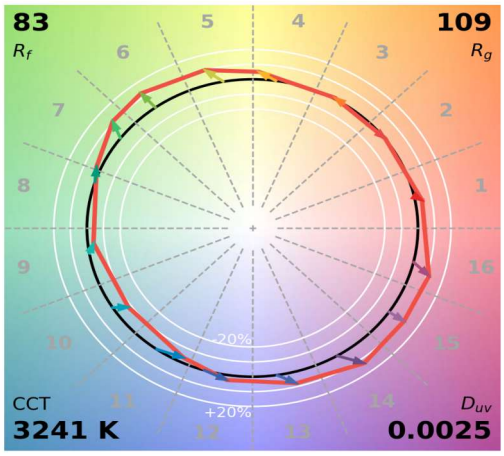
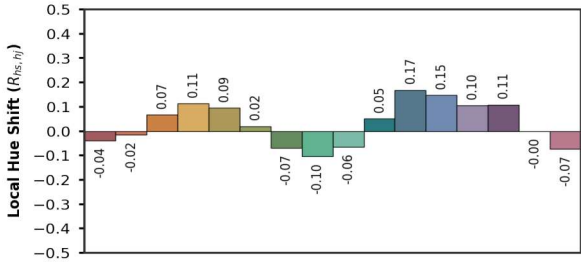
Zoom Wide 3200K – Colorimetric Report

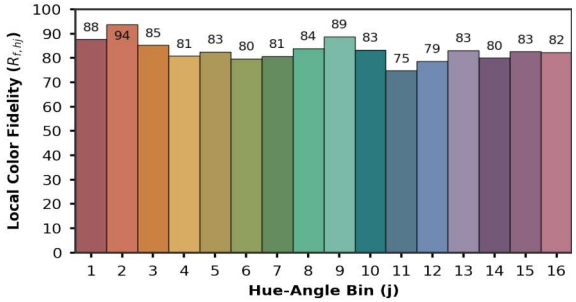
IES TM-30-18 Colour Rendition Report

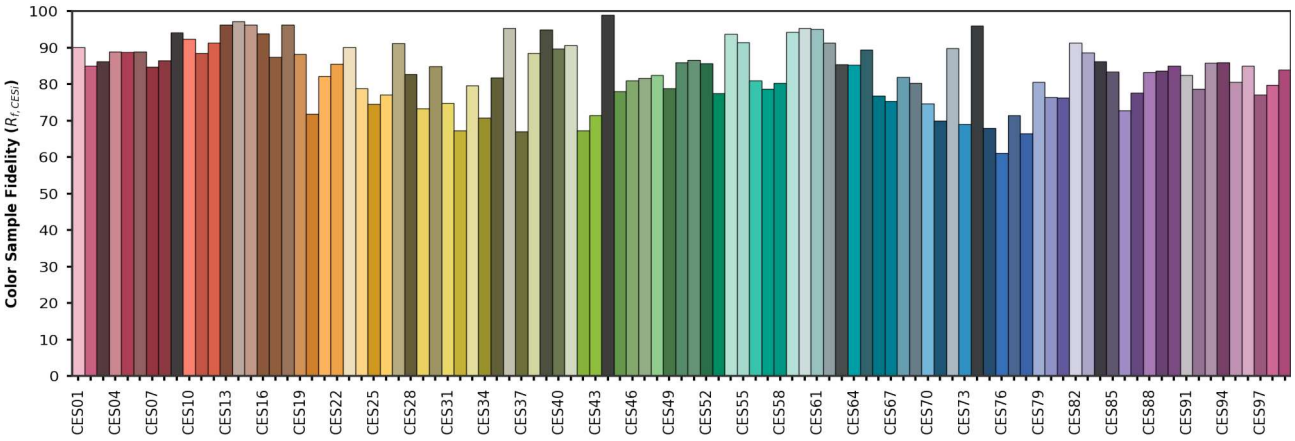












x	0.4239
y	0.4051
u′	0.2417
v′	0.5199

CIE 13.31-1995 (CRI)
R_a 83
R_9 58

Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 088; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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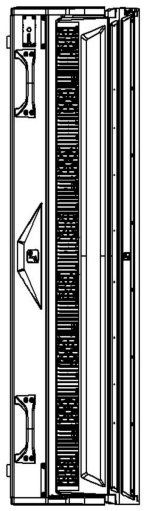
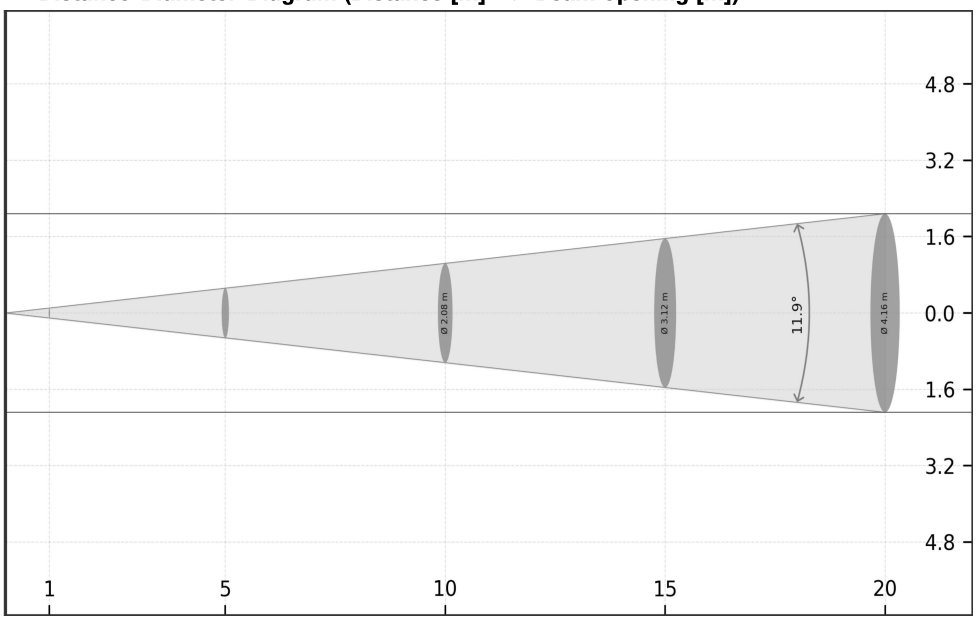
Zoom Mid 3200K – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
11.9	18.8	6674	471	14.2

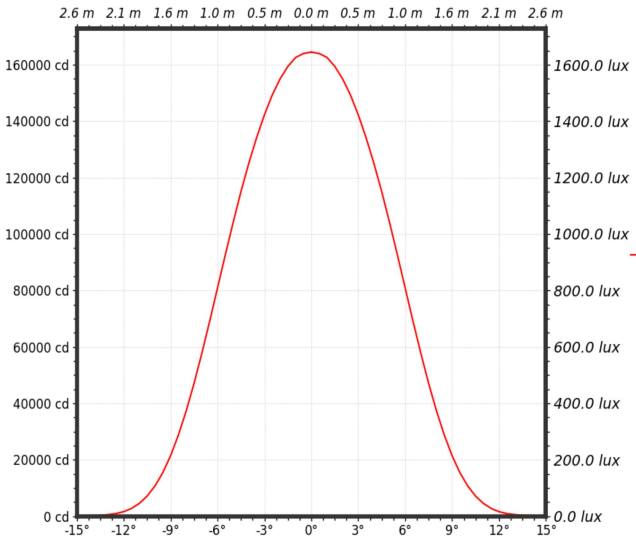


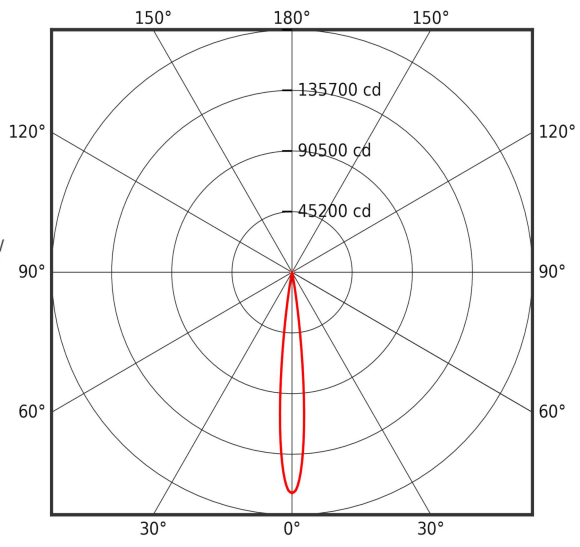
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	163973	6559	1640	729	410
Diameter [m]	0.21	1.04	2.08	3.12	4.16

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 088; PWM: 1530Hz; Fan Mode: Auto; Zoom: 128

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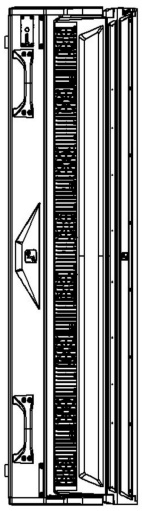
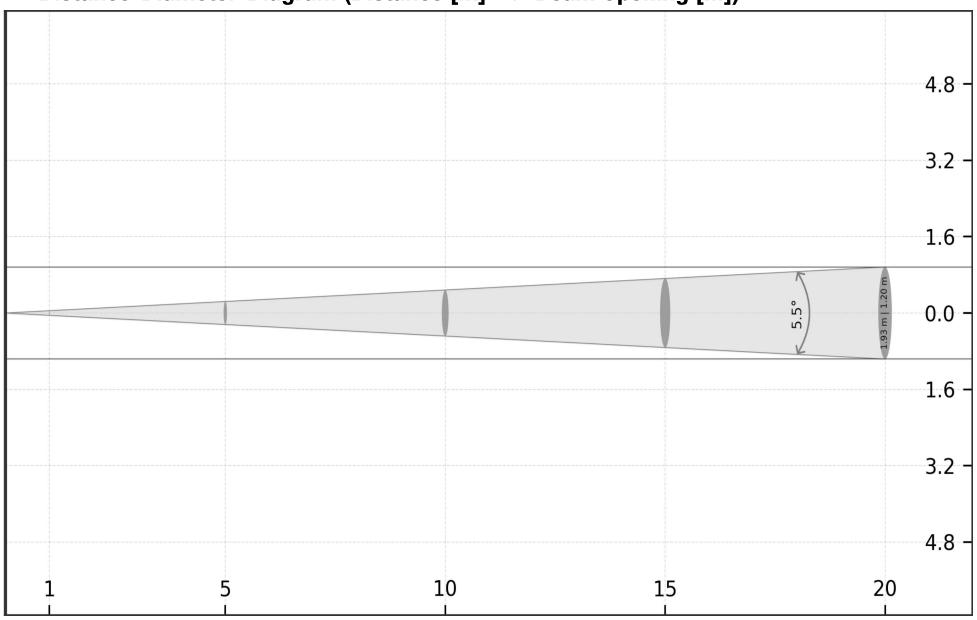
Zoom Narrow 3200K – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
5.5 I 3.4	8.6 I 4.8	4955	475	10.4

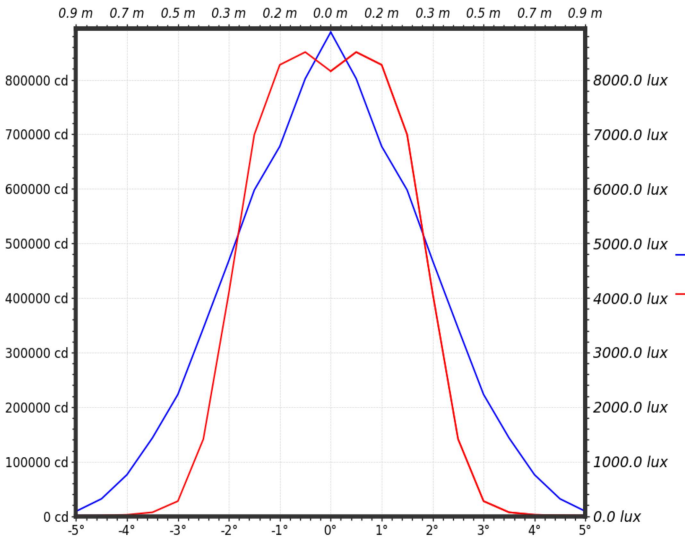


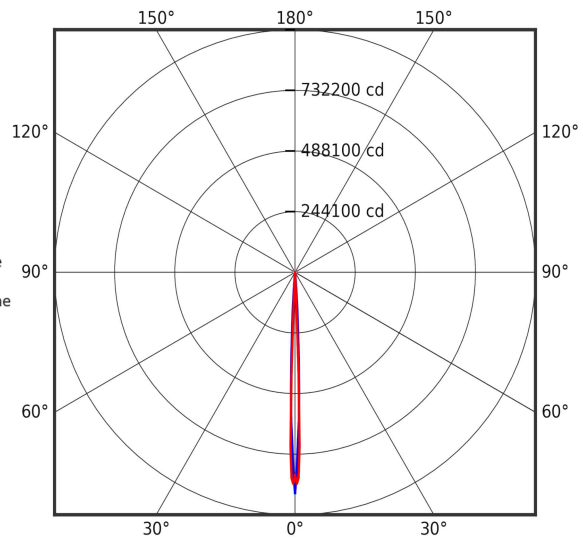
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	815868	32635	8159	3626	2040
Diameter [m]	0.10 I 0.06	0.48 I 0.30	0.96 I 0.60	1.45 I 0.90	1.93 I 1.20

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 088; PWM: 1530Hz; Fan Mode: Auto; Zoom: 000

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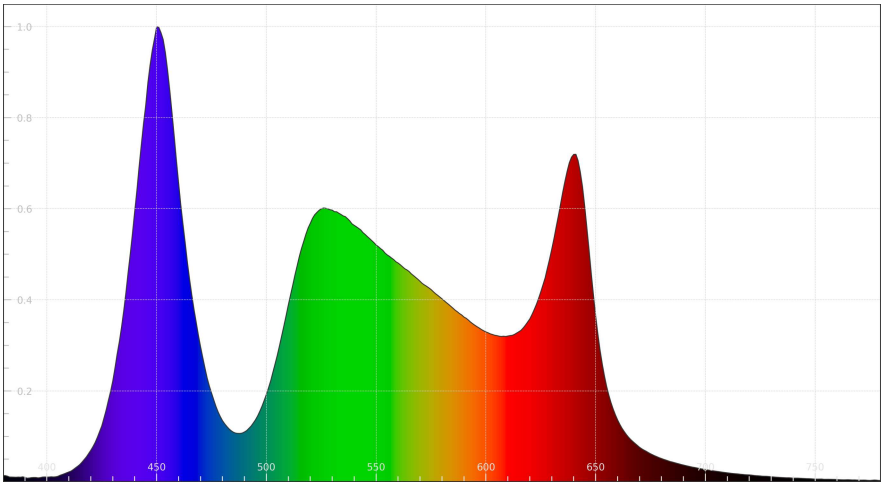
6500K – Colorimetric Report

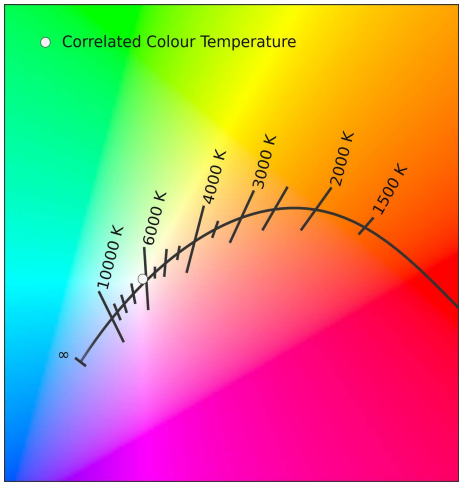
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	6215	Luminous Flux [lm]	**Lum Flux**	8284
Colour Deviation from Black	**D_{uv}**	0.0021	Colour Rendering Index	**CRI Ra**	84
Colour Coordinate CIE 1931	**x**	0.3178	Red Component	**CRI R9**	88
Colour Coordinate CIE 1931	**y**	0.3319	Colour Fidelity	**TM30 R_f**	83
Colour Coordinate CIE 1976	**u'**	0.2003	Colour Gamut	**TM30 R_g**	105
Colour Coordinate CIE 1976	**v'**	0.4706	Television Lighting Consistency Index	**TLCI**	79
Spectral Similarity Index	**SSI[CIE D6215]**	60			

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



Colour Temperature

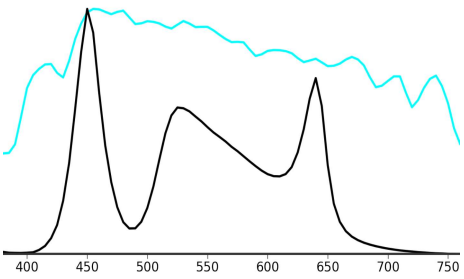


Television Lighting Consistency Index-2012

CCT = D6215 (0.4) TLCI-2012 : 79 (D6215)



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



Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 211; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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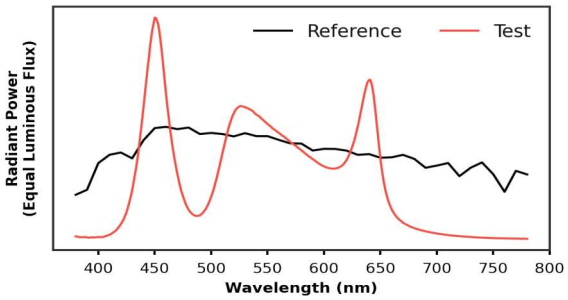
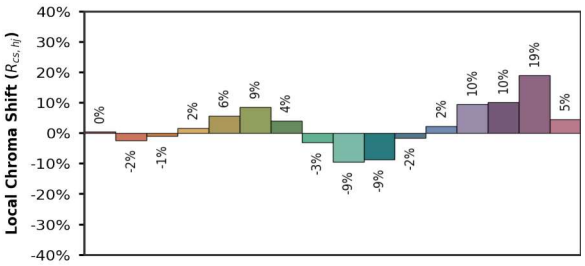
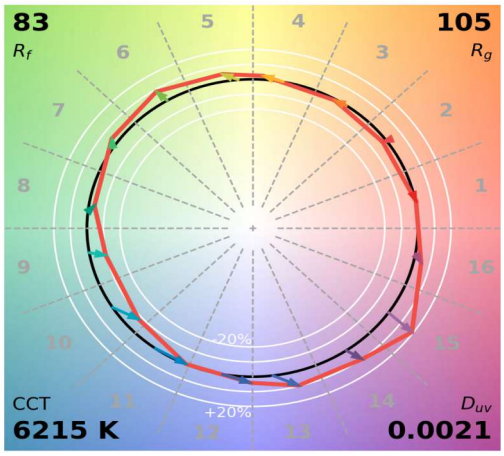
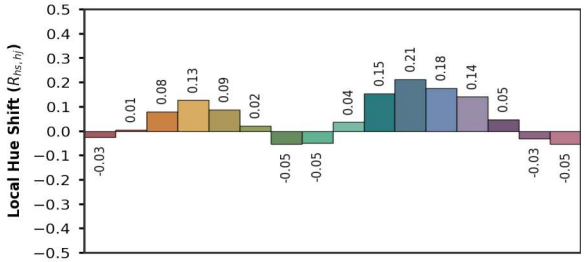
6500K – Colorimetric Report

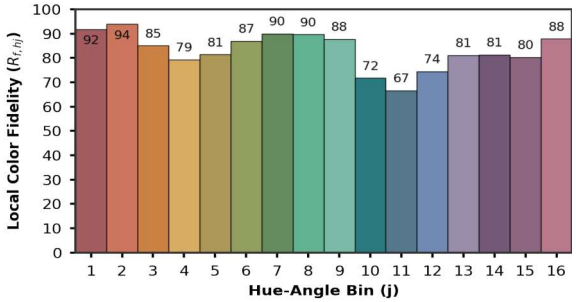
IES TM-30-18 Colour Rendition Report

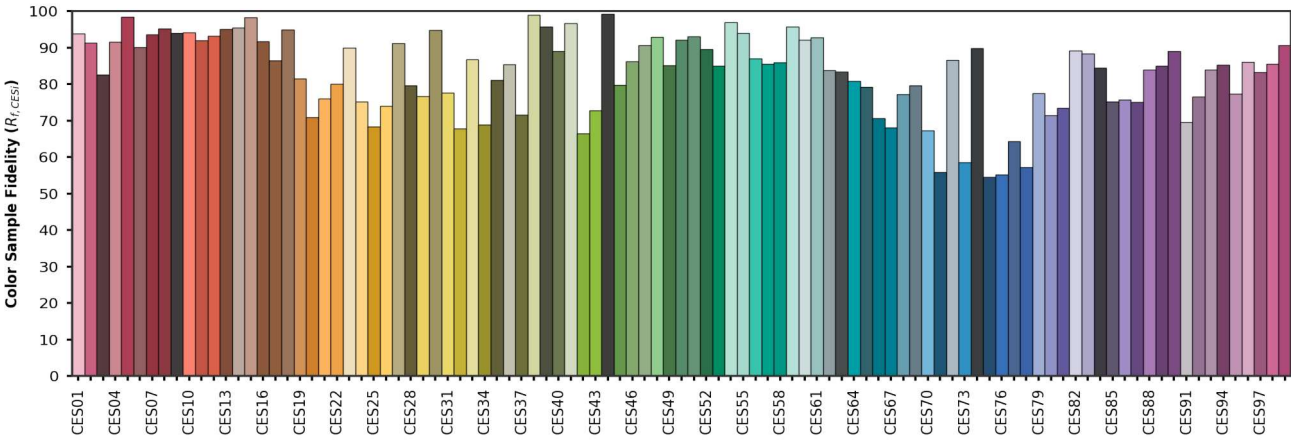












x	0.3178
y	0.3319
u'	0.2003
v'	0.4706

CIE 13.31-1995 (CRI)
R_a **84**
R_9 **88**

Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 211; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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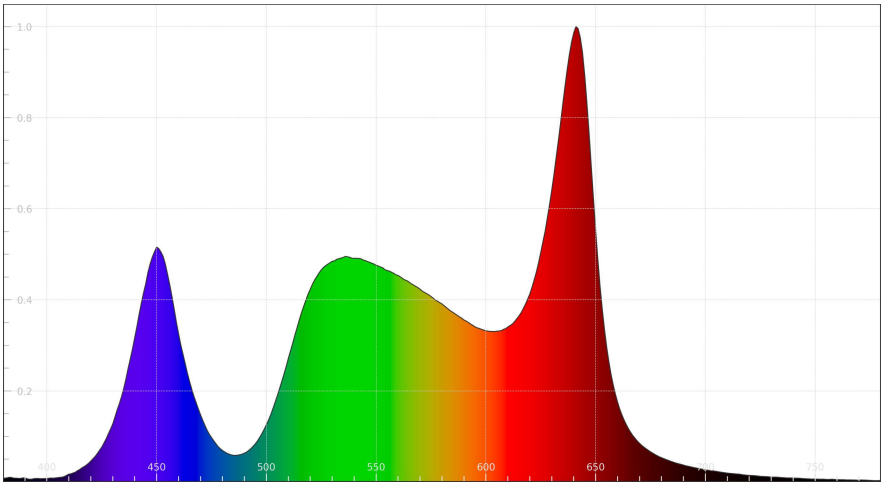
4000K – Colorimetric Report

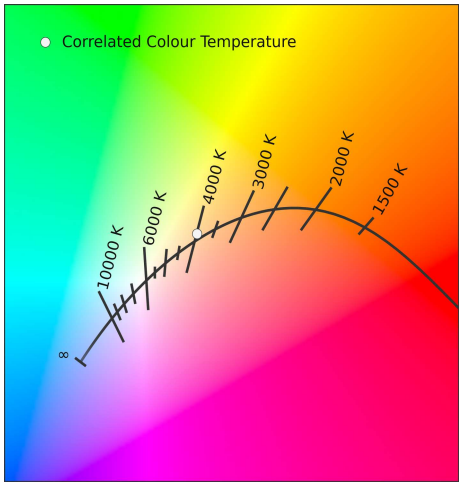
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	3986	Luminous Flux [lm]	**Lum Flux**	7736
Colour Deviation from Black	**D_{uv}**	0.0025	Colour Rendering Index	**CRI Ra**	84
Colour Coordinate CIE 1931	**x**	0.3828	Red Component	**CRI R9**	67
Colour Coordinate CIE 1931	**y**	0.3836	Colour Fidelity	**TM30 R_f**	84
Colour Coordinate CIE 1976	**u'**	0.2240	Colour Gamut	**TM30 R_g**	107
Colour Coordinate CIE 1976	**v'**	0.5049	Television Lighting Consistency Index	**TLCI**	77
Spectral Similarity Index	**SSI[P3986]**	62			

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



Colour Temperature

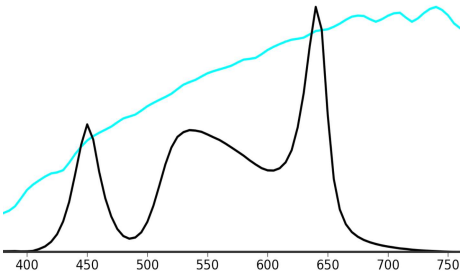


Television Lighting Consistency Index-2012

CCT = M3986 (0.5) TLCI-2012 : 77 (M3986)



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



Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 170; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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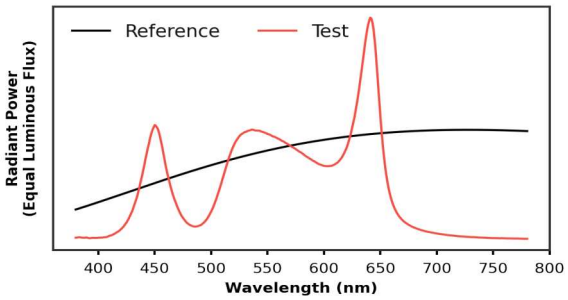
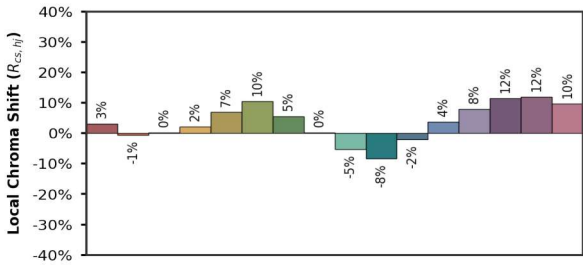
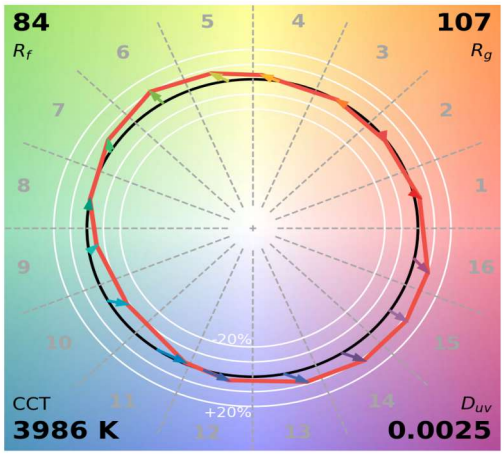
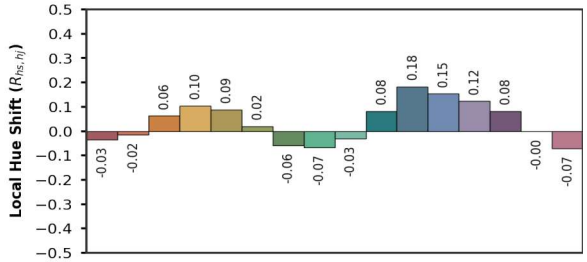
4000K – Colorimetric Report

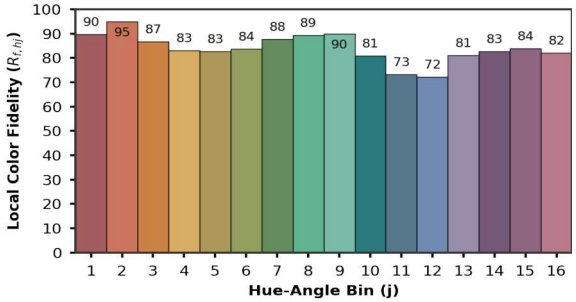
IES TM-30-18 Colour Rendition Report

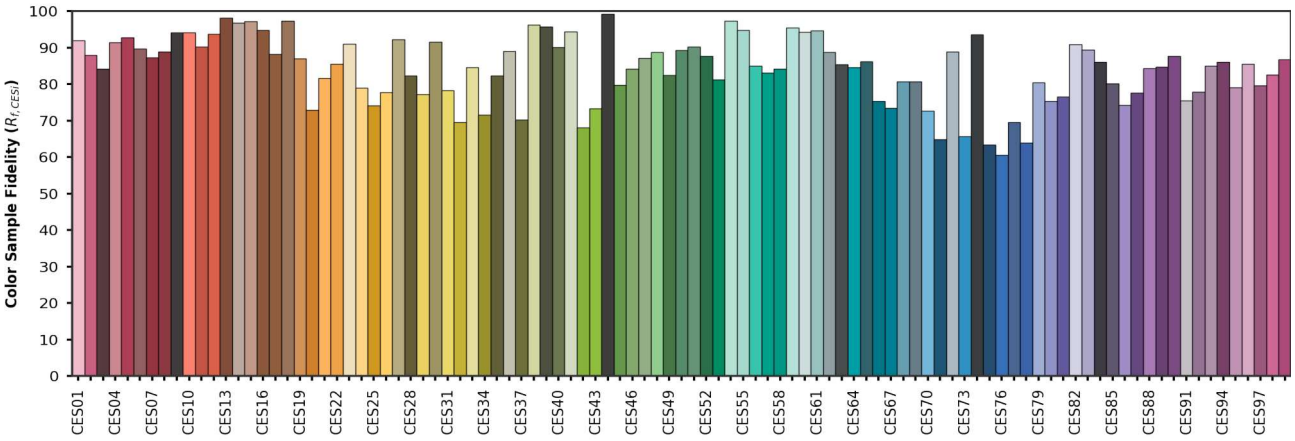












x	0.3828
y	0.3836
u'	0.2240
v'	0.5049

CIE 13.31-1995 (CRI)
R_a **84**
R_9 **67**

Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 170; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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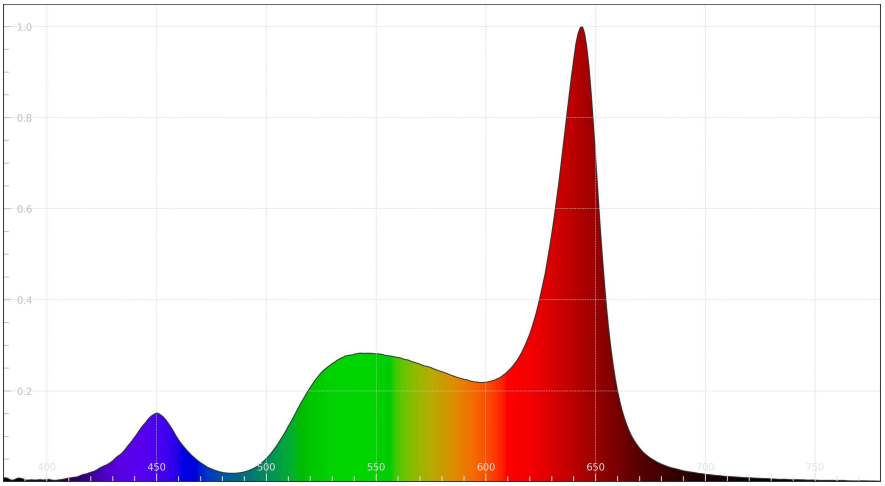
OTOS® L16

2700K – Colorimetric Report

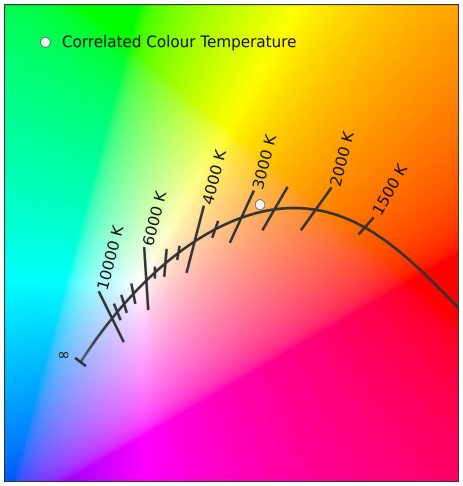
Colorimetric Characteristics

Correlated Colour Temperature [K]	**CCT**	2771	Luminous Flux [lm]	**Lum Flux**	6622
Colour Deviation from Black	**D_{uv}**	0.0020	Colour Rendering Index	**CRI Ra**	80
Colour Coordinate CIE 1931	**x**	0.4575	Red Component	**CRI R9**	29
Colour Coordinate CIE 1931	**y**	0.4154	Colour Fidelity	**TM30 R_f**	83
Colour Coordinate CIE 1976	**u'**	0.2589	Colour Gamut	**TM30 R_g**	112
Colour Coordinate CIE 1976	**v'**	0.5288	Television Lighting Consistency Index	**TLCI**	73
Spectral Similarity Index	**SSI[P2771]**	65			

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



Colour Temperature

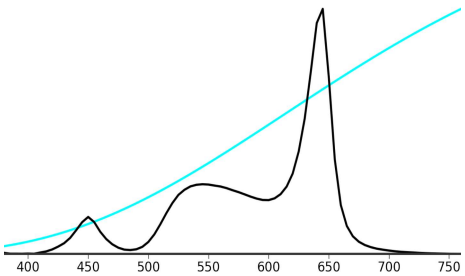


Television Lighting Consistency Index-2012

CCT = P2771 (0.4) TLCI-2012 : 73 (P2771)



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



Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 047; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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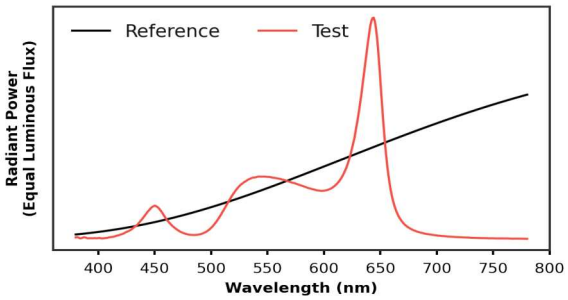
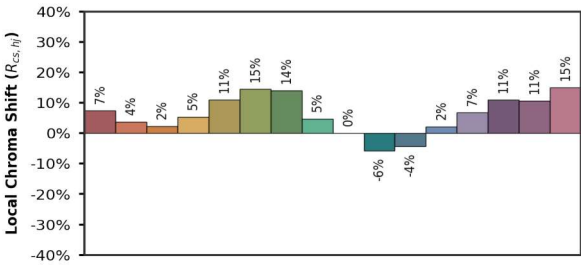
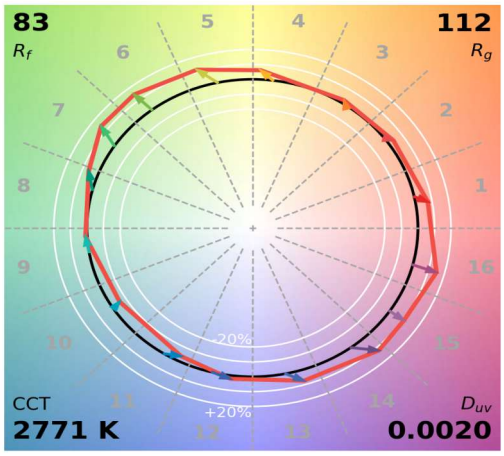
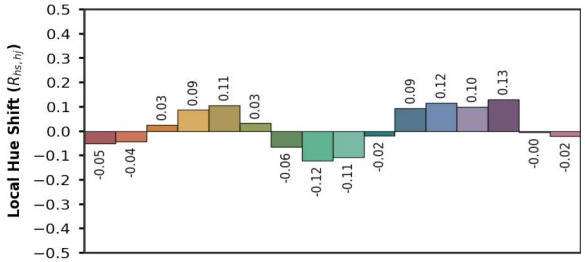
2700K – Colorimetric Report

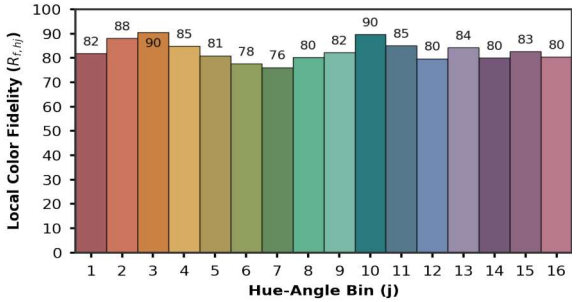
IES TM-30-18 Colour Rendition Report

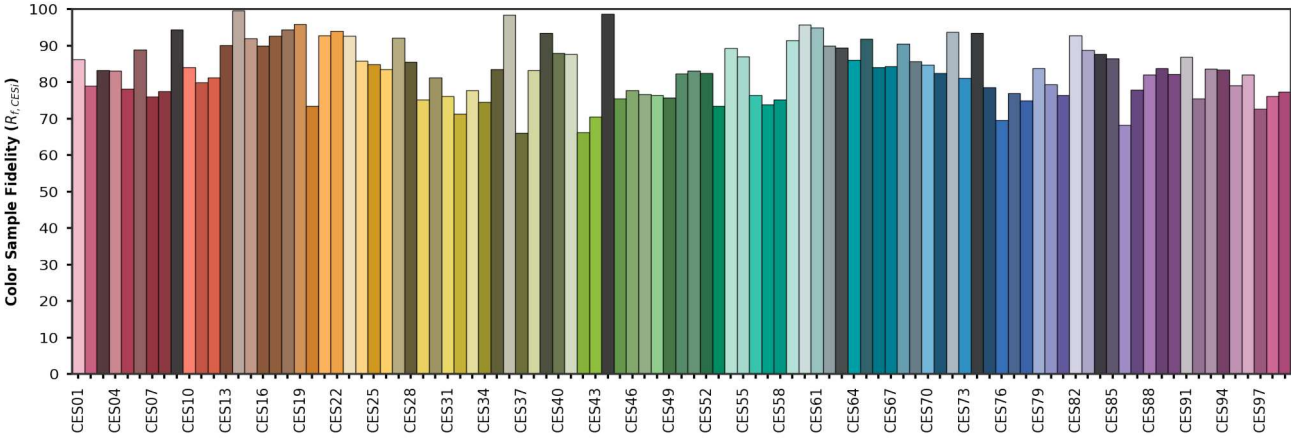












x	0.4575
y	0.4154
u′	0.2589
v′	0.5288

CIE 13.31-1995 (CRI)	
R_a	80
R_9	29

Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 047; PWM: 1530Hz; Fan Mode: Auto; Zoom: 255

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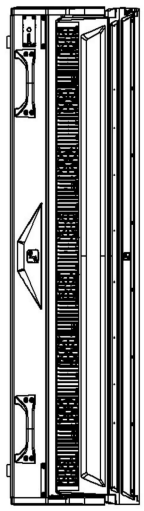
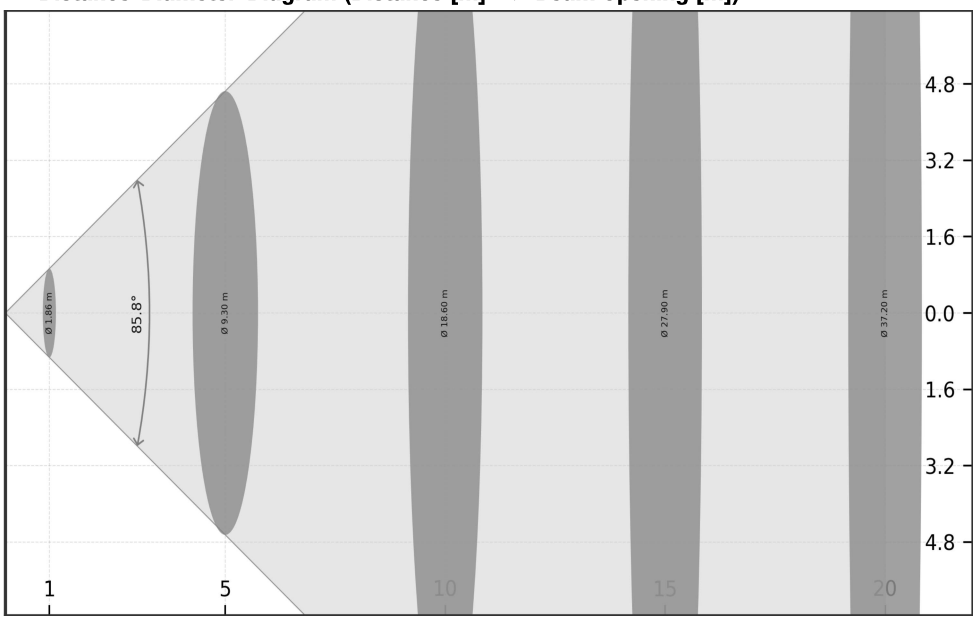
OTOS® L16

Zoom Mid 120 Circular Filter – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
85.8	151.6	6075	666	9.1

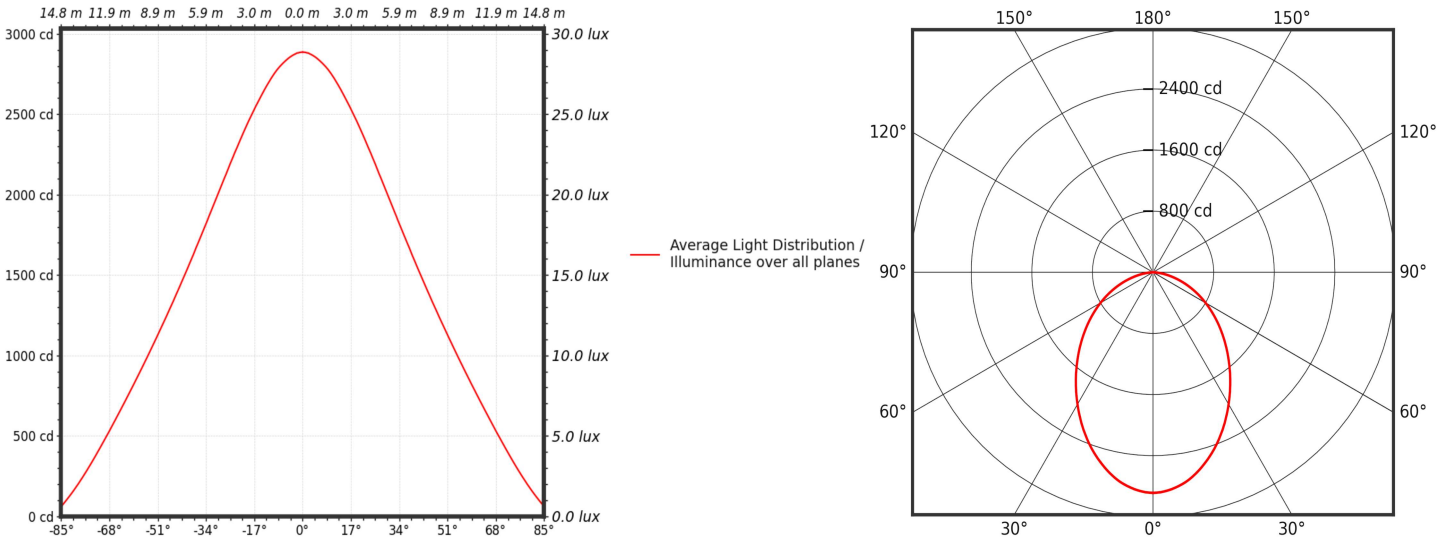


Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	2882	115	29	13	7
Diameter [m]	1.86	9.30	18.60	27.90	37.20

Light Distribution Diagrams / Illuminance



Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 000; PWM: 1530Hz; Fan Mode: Auto; Zoom: 128

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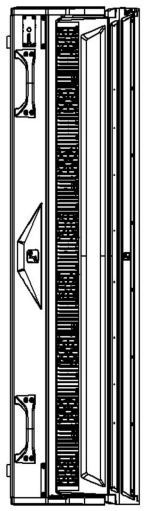
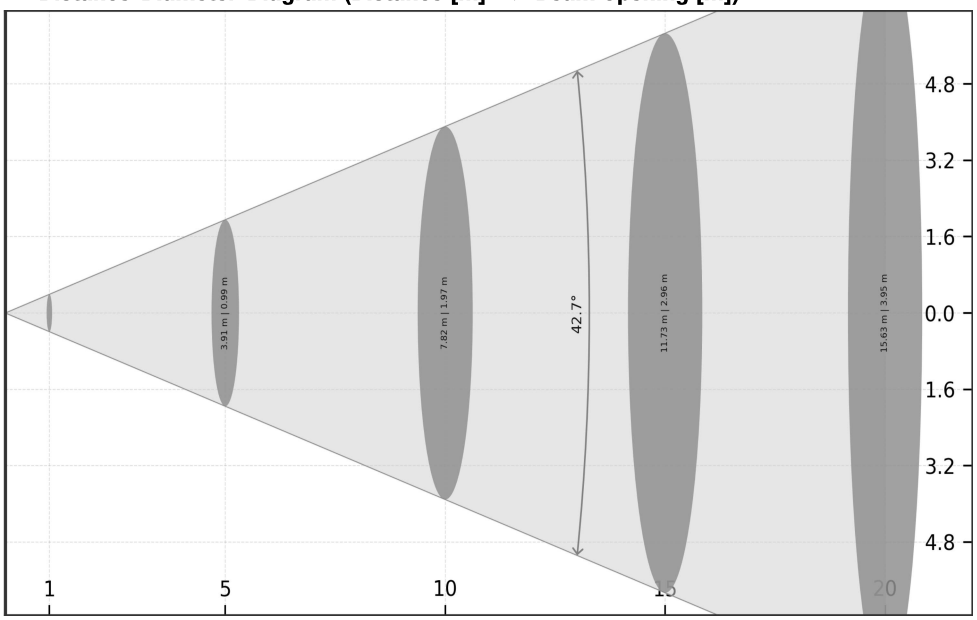
OTOS® L16

Zoom Mid Asymmetrical Filter – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
42.7 I 11.3	75.4 I 18.9	5480	665	8.2

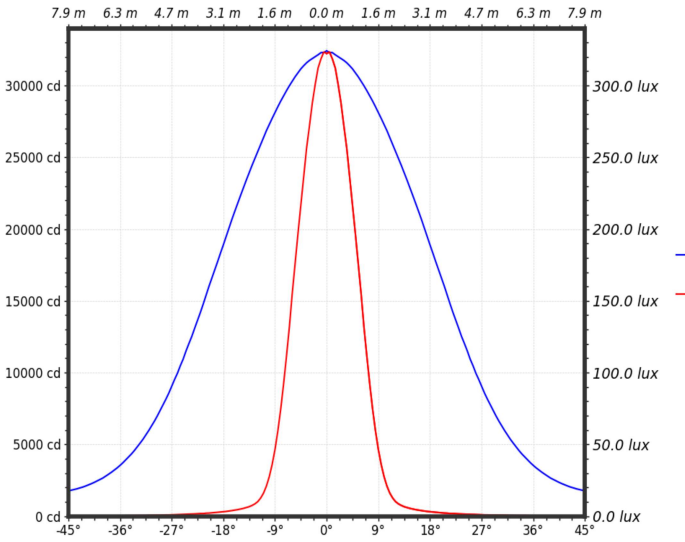


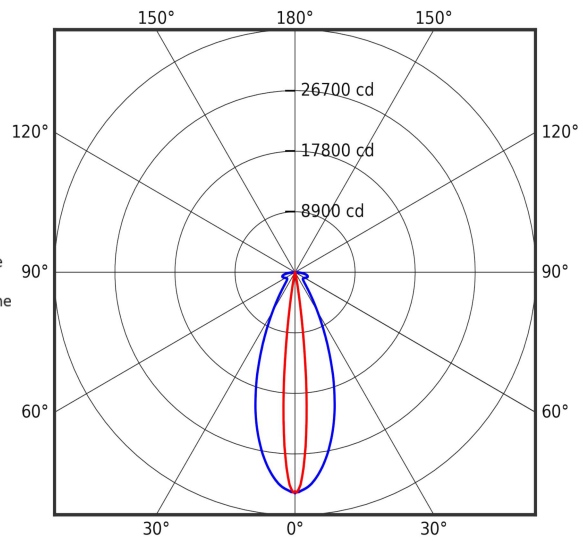
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	32237	1289	322	143	81
Diameter [m]	0.78 I 0.20	3.91 I 0.99	7.82 I 1.97	11.73 I 2.96	15.63 I 3.95

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 000; PWM: 1530Hz; Fan Mode: Auto; Zoom: 128

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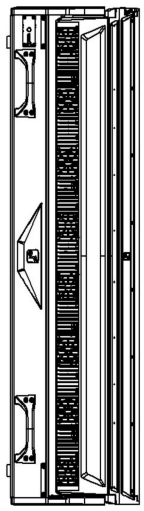
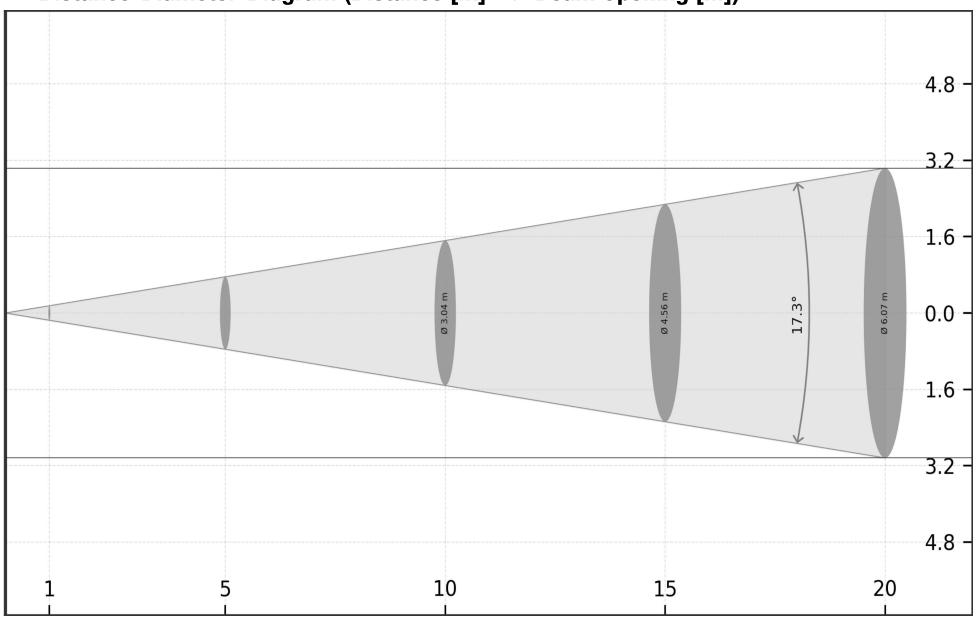
OTOS® L16

Zoom Mid Darkfilter – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
17.3	38.5	2489	666	3.7

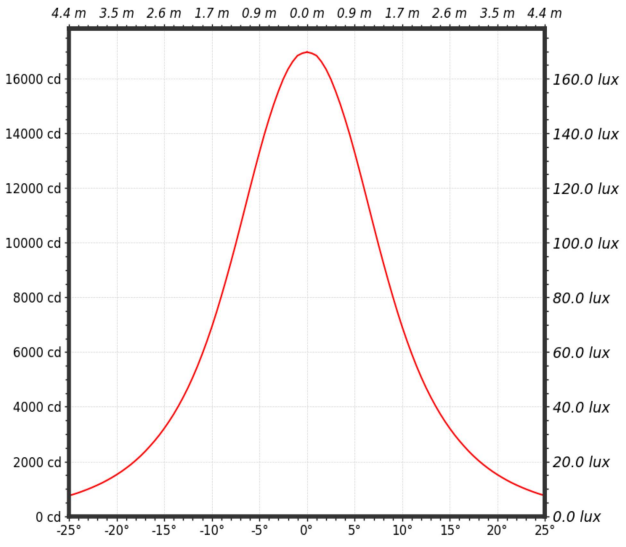


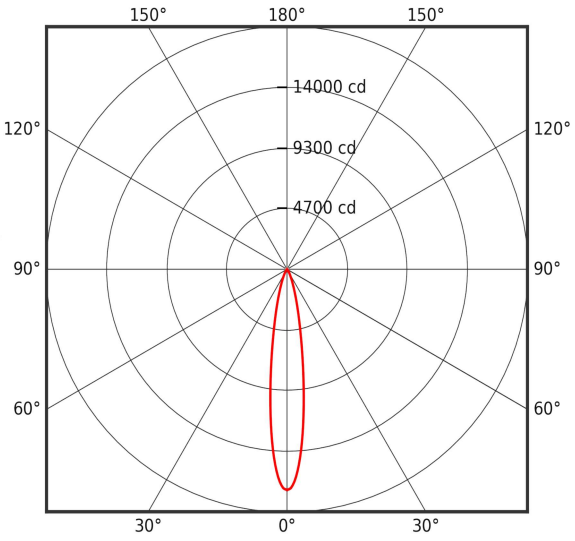
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	16970	677	169	75	42
Diameter [m]	0.30	1.52	3.04	4.56	6.07

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 000; PWM: 1530Hz; Fan Mode: Auto; Zoom: 128

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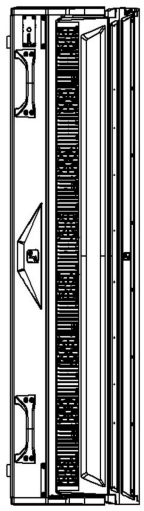
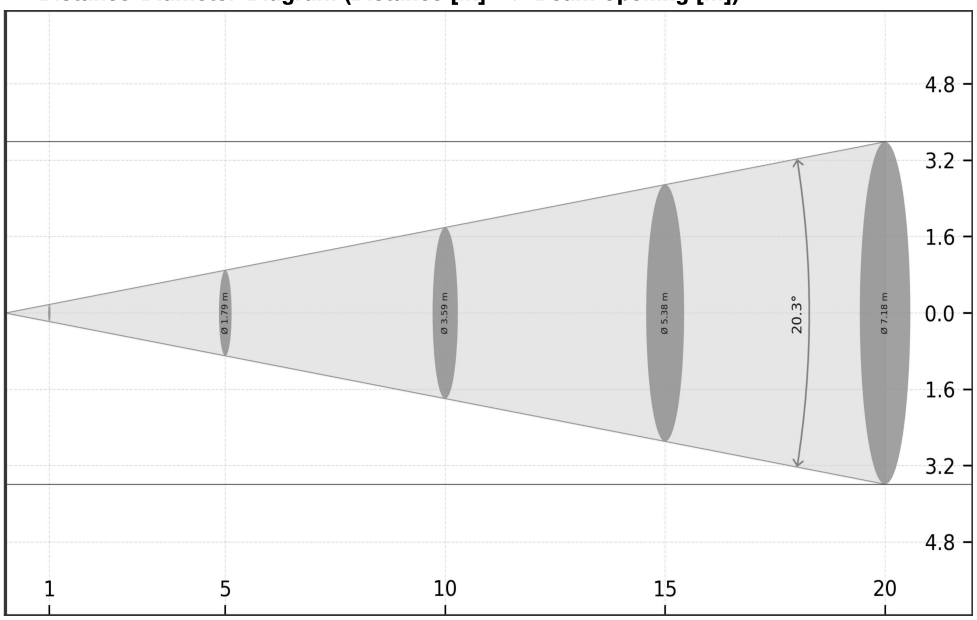
OTOS® L16

Zoom Mid Diamond Structure Filter – Photometric Report

Beam Angle [°]	Field Angle [°]	Luminous flux [lm]	Power [W]	Luminous Efficacy [lm/W]
20.3	45.6	7816	666	11.7

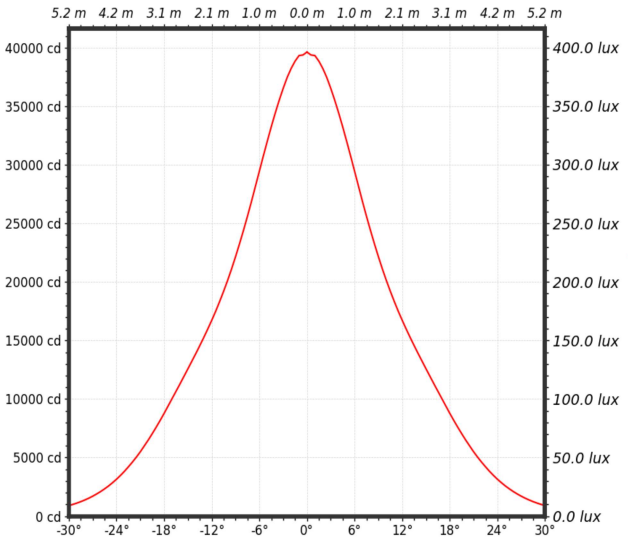


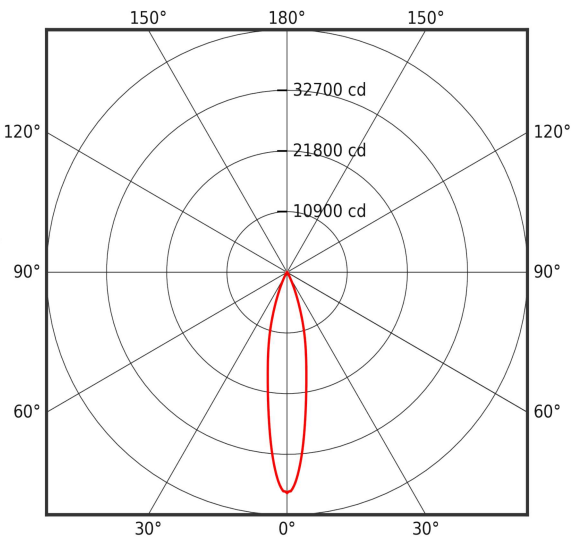
Distance-Diameter-Diagram (Distance [m] --> Beam Opening [m])



Distance [m]	1	5	10	15	20
Illuminance [lx]	39620	1575	394	175	98
Diameter [m]	0.36	1.79	3.59	5.38	7.18

Light Distribution Diagrams / Illuminance





Device Settings: Dimmer: 100%; RGBL: 100%; CCT: 000; PWM: 1530Hz; Fan Mode: Auto; Zoom: 128

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