

Photometric Test Report



SunRise 4FLXVW

IP65 modular LED blinder with 4x300W Variable
White + Amber LED sources

CONTENTS

Table of contents	2
Testing process	3
Full On	4
Warm White	9
Cold White	14
Amber	19
2800 K	24
3200 K	29
4000 K	34
5600 K	39
6000 K	44

TESTING PROCESS

Prolights has its own optical testing laboratory in order to provide accurate photometric reports for its lighting products. The testing laboratory contains certain variety of precise lighting measurement systems that ensure an optimal reading of all the characteristic parameters of the lighting devices. All measurements are made at a controlled room temperature of 20°C without any external light sources. This photometric report is obtained through the data measured by a high precision measurement system and analyzed by a dedicate software.

Prolights measurement instrument

Prolights measurement instrument is a complete measurement system for any light source. It's equipped with two-axis goniometer, that enables to measure the full 3D distribution field of the light source. This instrument measures the light intensity, the beam angle and the most significative colors parameters, like color temperature, spectral distribution, CRI, CQS, TM-30 with a very high accuracy rate.

Please Note: All measurements are made with light source at operating temperature. Before starting the measurement, the instrument analyzes the process of the light source during the heating phase. The measuring process of all the parameters begins only when the light emission is stable, that is with a variation of less than 0.5% in a 15 minutes time frame.

Prolights measurement software

The software provides user friendly interface for the operator who does the measurements, and it also analyzes and processes all the collected data by the instrument. With this software it is possible to see the measured data in real-time and it is possible to examine all the measured data and graphics afterwards as well. All information is collected in a specific Prolights template, and the software creates also IES and LDT files, which are widely used to transfer the photometric data, and to develop lighting system.

Additionally, the fixtures are rechecked using various hand-held instruments like Sekonic C-700 and Gossen Mavospec Base, this is done to ensure, that the data in the photometric report are as accurate as possible.



Total lumen output:

67740 lm

Peak candela output:

79032 cd

Light quality:

CRI: 96,7

Color temperature:

4206 K

PRODUCT NAME:

SUNRISE4FLXVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

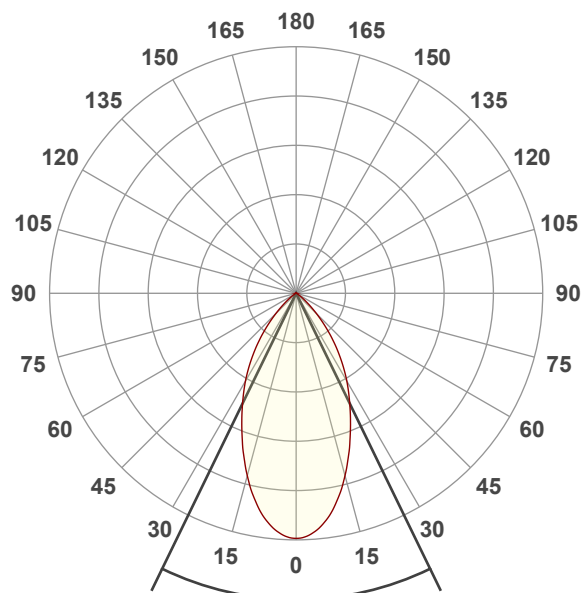
Full On

Operator:

Giuseppe della Peruta

Date and time:

11/09/2025 12:58:22

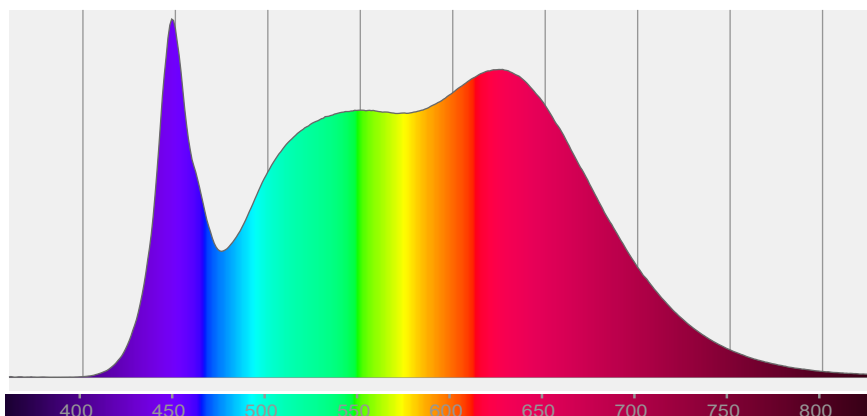


Beam angle 50%: 51,9°

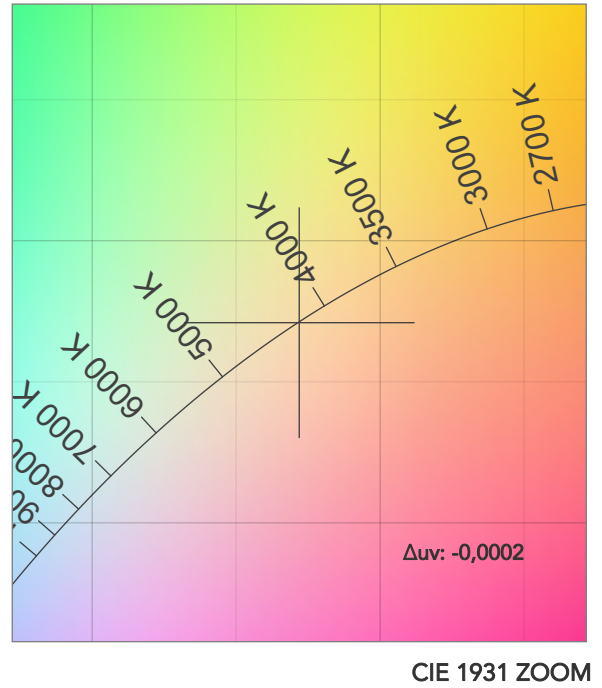
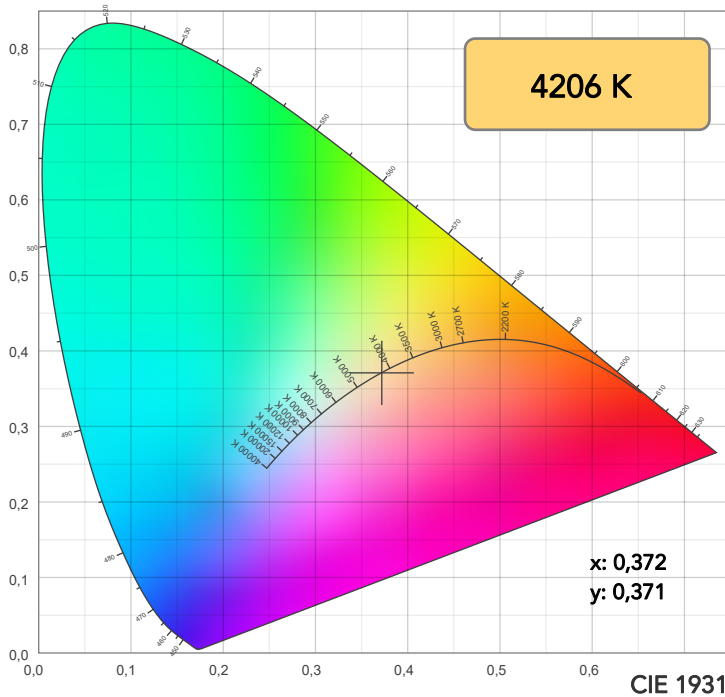
Field angle 10%: 92,4°

Cut off angle 2.5%: 108,7°

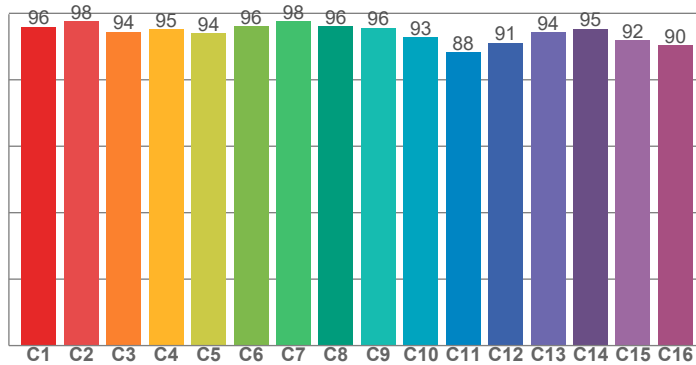
Spectra



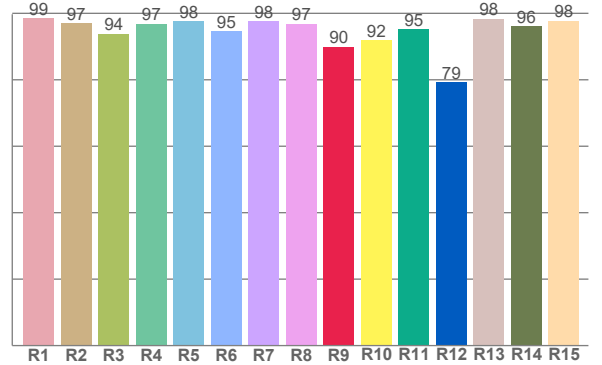
COLOR DETAILS



TM30: 94,1



CRI: 96,7 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98,6	97,1	93,9	96,9	97,7	94,7	97,5	96,9	90,0	92,0	95,2	79,3	98,4	96,1	97,8

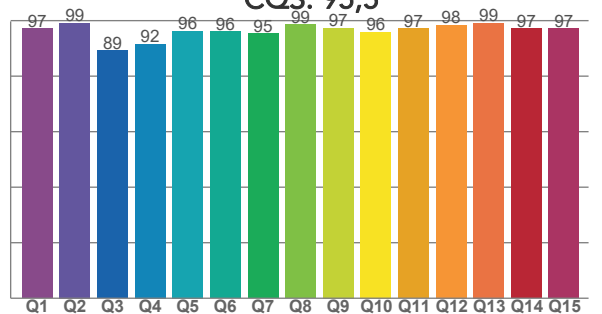
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,9	97,6	94,4	95,2	94,0	96,0	97,5	96,2	95,7	92,8	88,4	91,1	94,3	95,3	91,8	90,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,2	99,2	89,2	91,5	96,3	96,1	95,5	98,6	97,3	95,9	97,1	98,4	99,2	97,2	97,2

CQS: 95,5



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4206 K	96,7	90,0	94,1	101,7	95,5	97	0,372	0,371	-0,0002

TM30 DETAILS

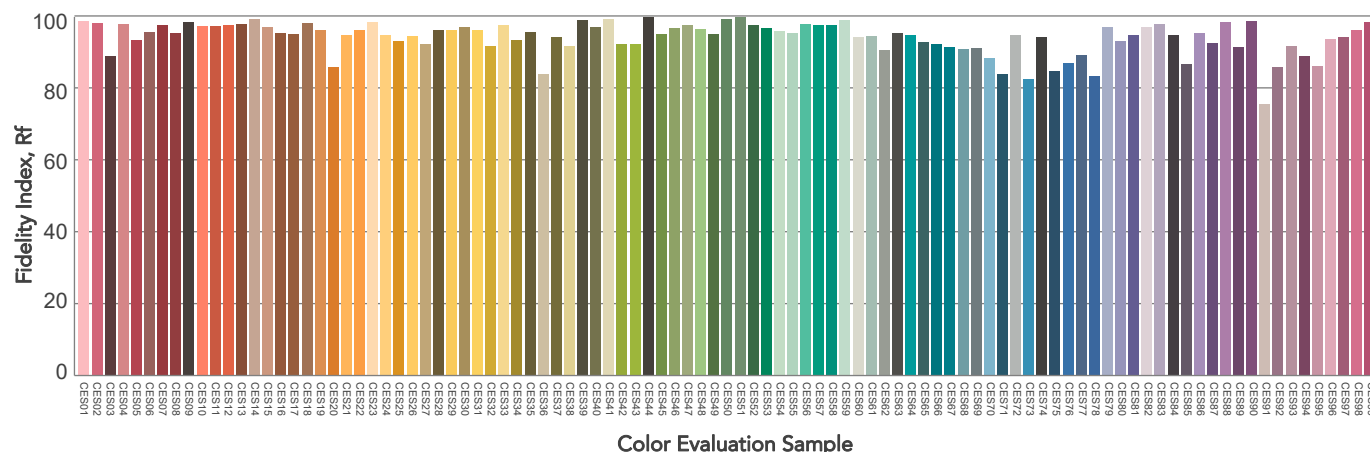
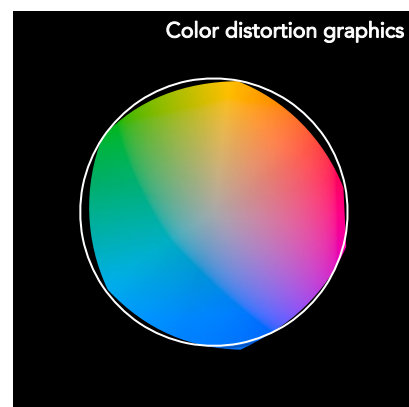
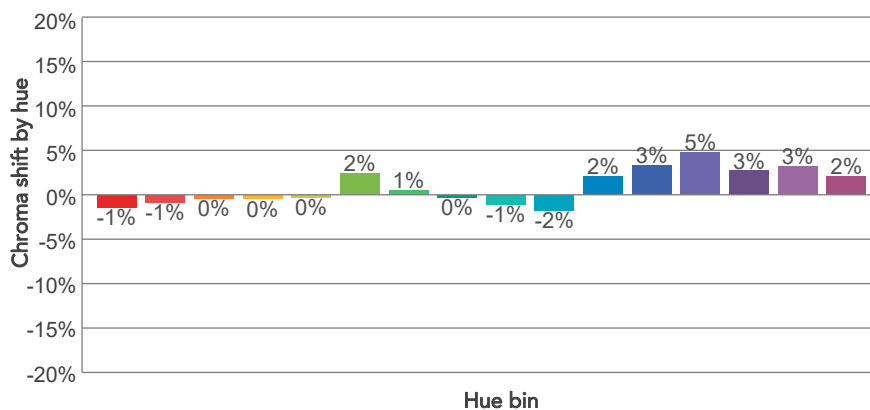
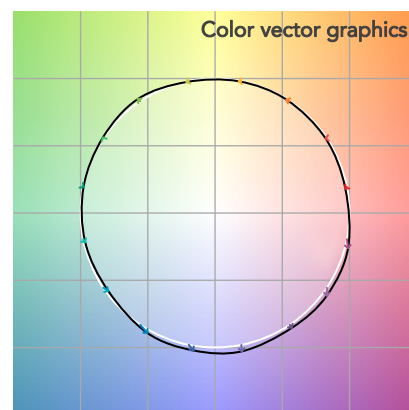
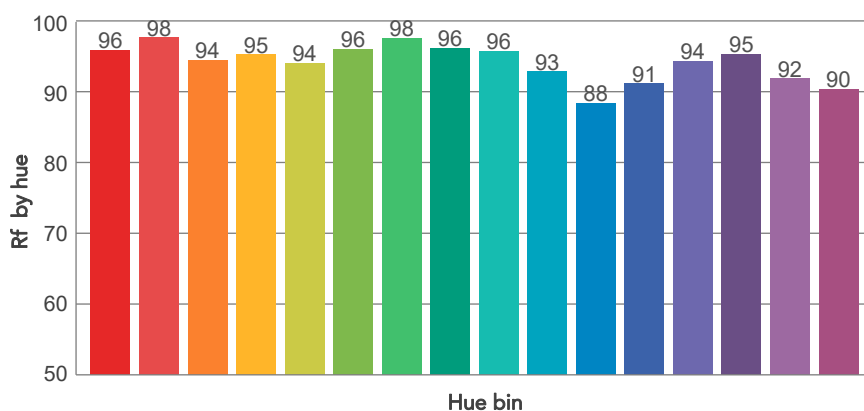
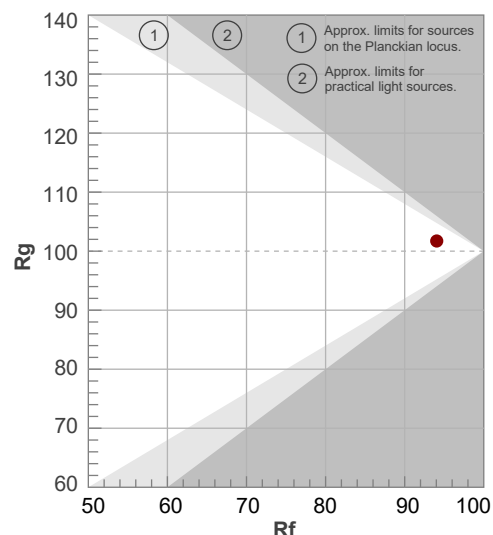
Rf 94,1

Fidelity index Rf

Rg 101,7

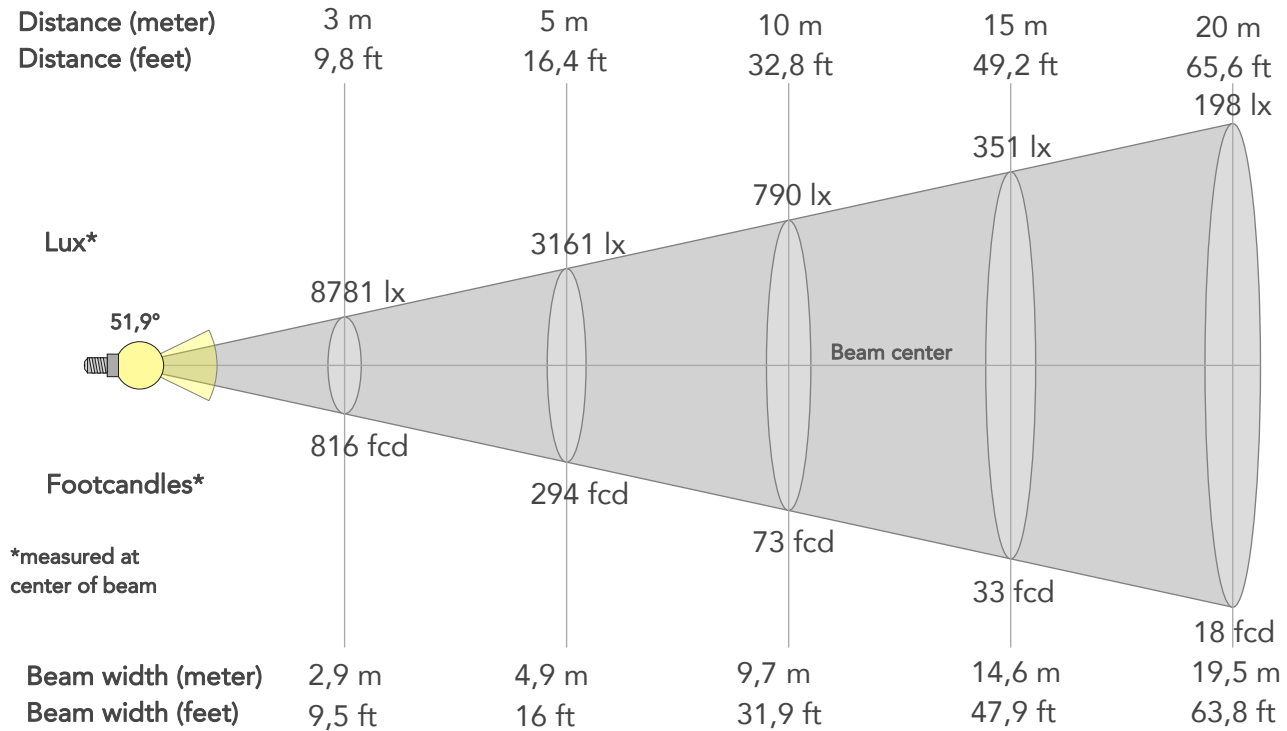
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	-1%	-1%
2	98	-1%	0%
3	94	0%	3%
4	95	0%	2%
5	94	0%	2%
6	96	2%	1%
7	98	1%	0%
8	96	0%	0%
9	96	-1%	2%
10	93	-2%	4%
11	88	2%	8%
12	91	3%	4%
13	94	5%	0%
14	95	3%	0%
15	92	3%	-5%
16	90	2%	-6%



BEAM DETAILS

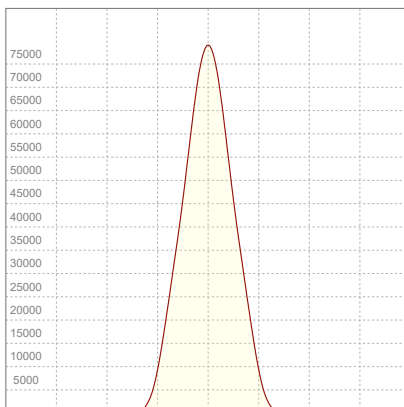
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,9°	92,4°	108,7°	99,0%	92,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	79032lx	19758lx	8781lx	4939lx	3161lx	1405lx	790lx	351lx	198lx	126lx	88lx	49lx	32lx
Footcand.	7342fcd	1836fcd	816fcd	459fcd	294fcd	131fcd	73fcd	33fcd	18fcd	12fcd	8fcd	5fcd	3fcd
Beam wid.	1m	1,9m	2,9m	3,9m	4,9m	7,3m	9,7m	14,6m	19,5m	24,3m	29,2m	38,9m	48,6m
Beam wid.	3,2ft	6,4ft	9,5ft	12,7ft	16ft	23,9ft	31,9ft	47,9ft	63,8ft	79,8ft	95,7ft	127,6ft	159,5ft

LINEAR DISTRIBUTION DIAGRAM

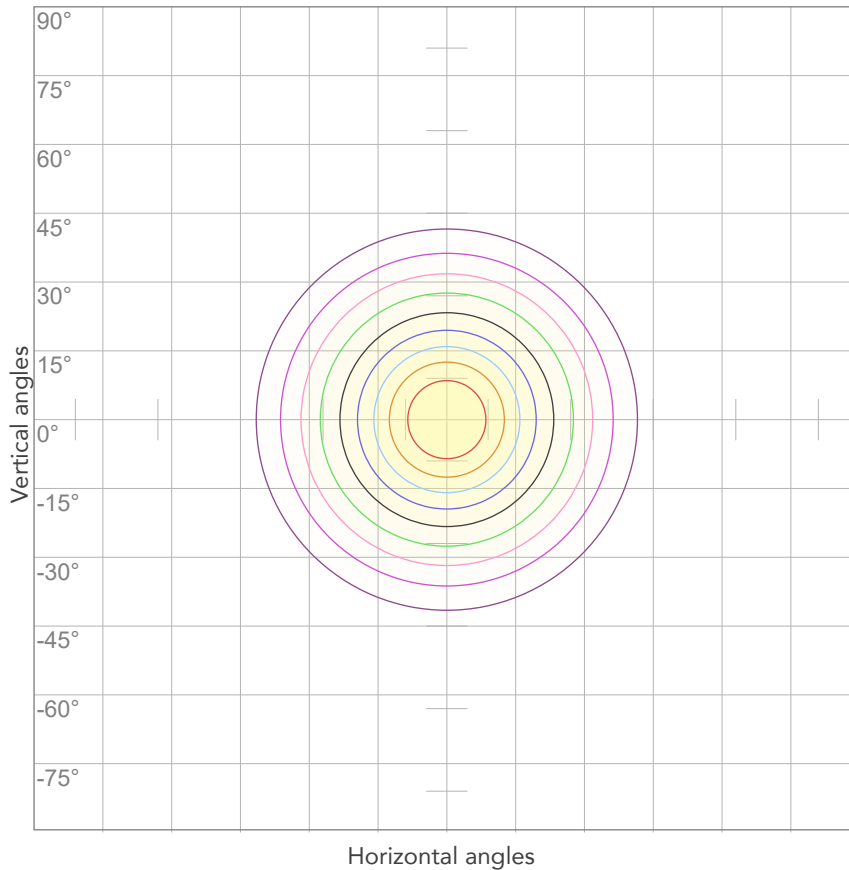


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	5,78A	1253,1W	0,96	54lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



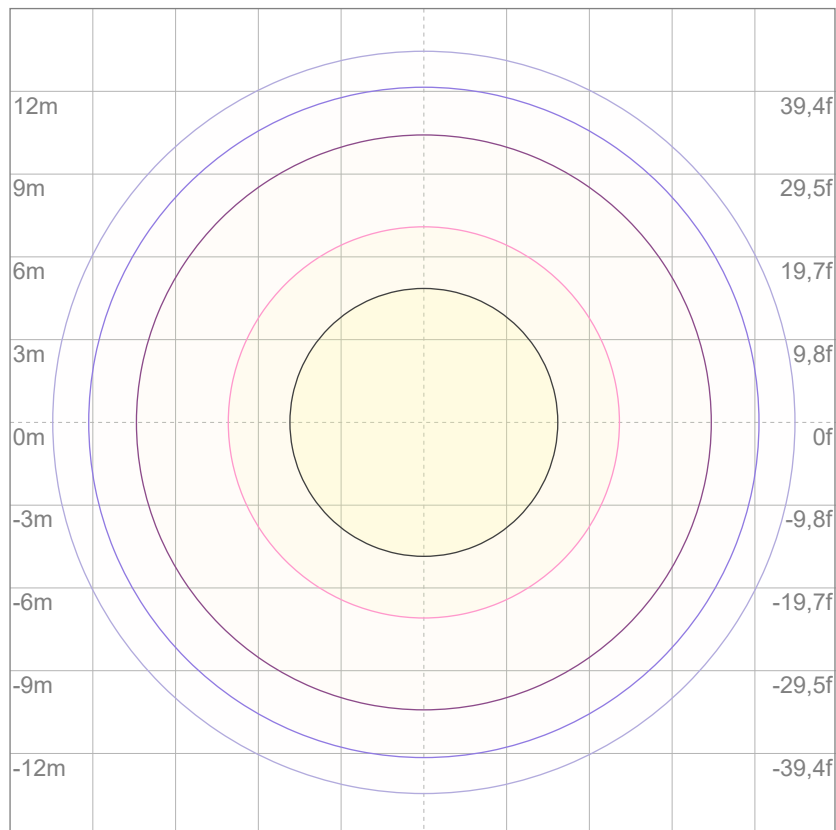
10%	7903 cd
20%	15806 cd
30%	23709 cd
40%	31613 cd
50%	39516 cd
60%	47419 cd
70%	55322 cd
80%	63225 cd

Conditions:

Number of c-planes: 2

Candela at center: 79032 cd

ISO LUX DIAGRAM



3%	23,7 lx
5%	39,5 lx
10%	79,0 lx
30%	237 lx
50%	395 lx

Conditions:

Number of c-planes: 2

Lux at center: 790 lx

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



Total lumen output:

51457 lm

Peak candela output:

60506 cd

Light quality:

CRI: 95,1

Color temperature:

2695 K

PRODUCT NAME:

SUNRISE4FLXVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

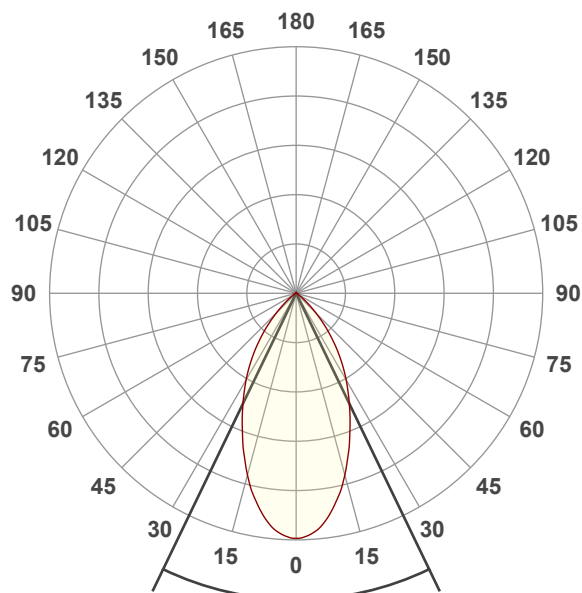
Warm White

Operator:

Giuseppe della Peruta

Date and time:

11/09/2025 13:01:15

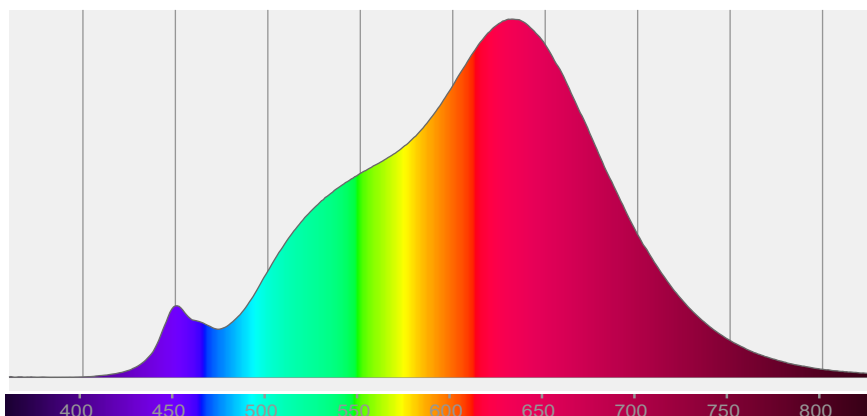


Beam angle 50%: 51,5°

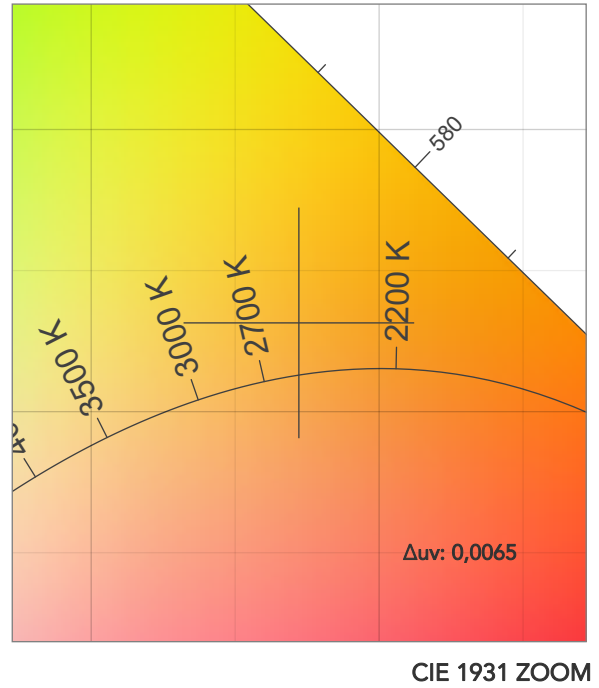
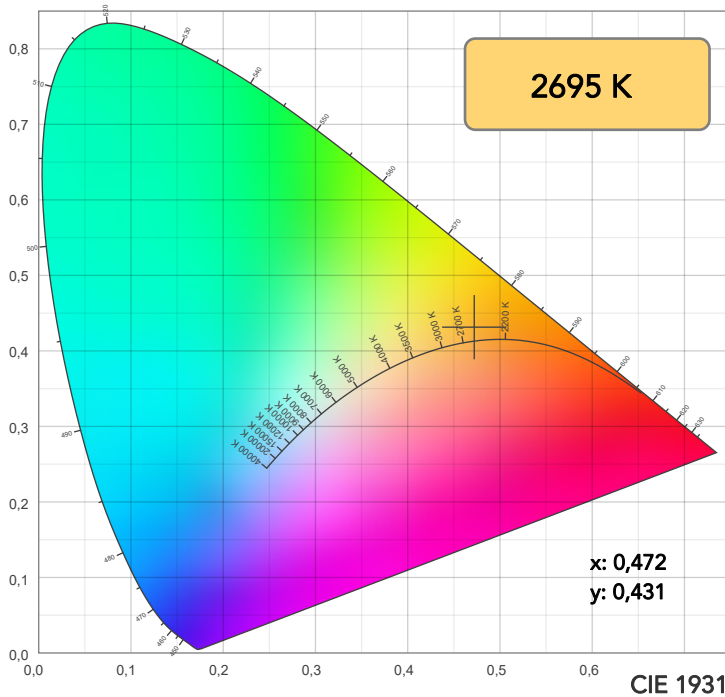
Field angle 10%: 92,2°

Cut off angle 2.5%: 108,6°

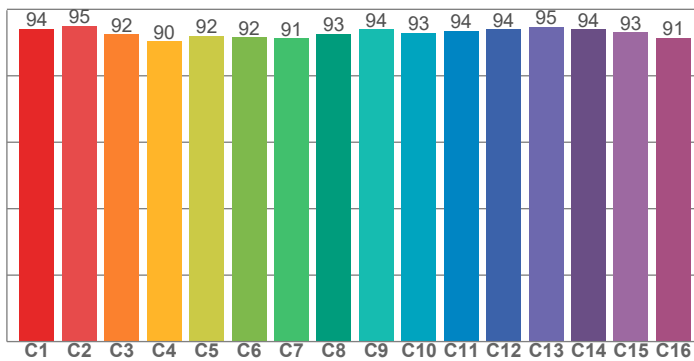
Spectra



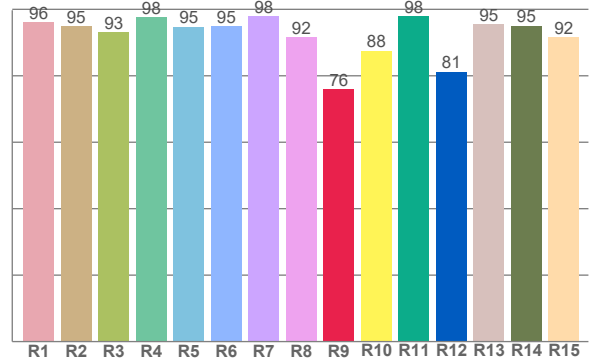
COLOR DETAILS



TM30: 92,9



CRI: 95,1 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,1	95,0	93,0	97,6	94,8	94,8	98,0	91,5	75,9	87,5	97,9	81,2	95,5	95,1	91,7

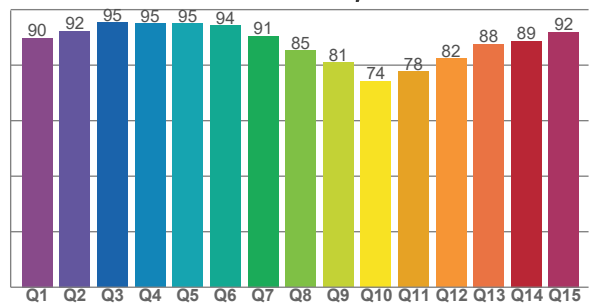
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	95,1	92,4	90,5	92,1	91,5	91,2	92,6	94,0	92,9	93,6	94,1	94,8	94,0	93,1	91,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,7	92,4	95,3	95,0	95,1	94,3	90,5	85,2	81,0	74,3	77,7	82,3	87,7	88,7	91,9

CQS: 86,1



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2695 K	95,1	75,9	92,9	95,5	86,1	96	0,472	0,431	0,0065

TM30 DETAILS

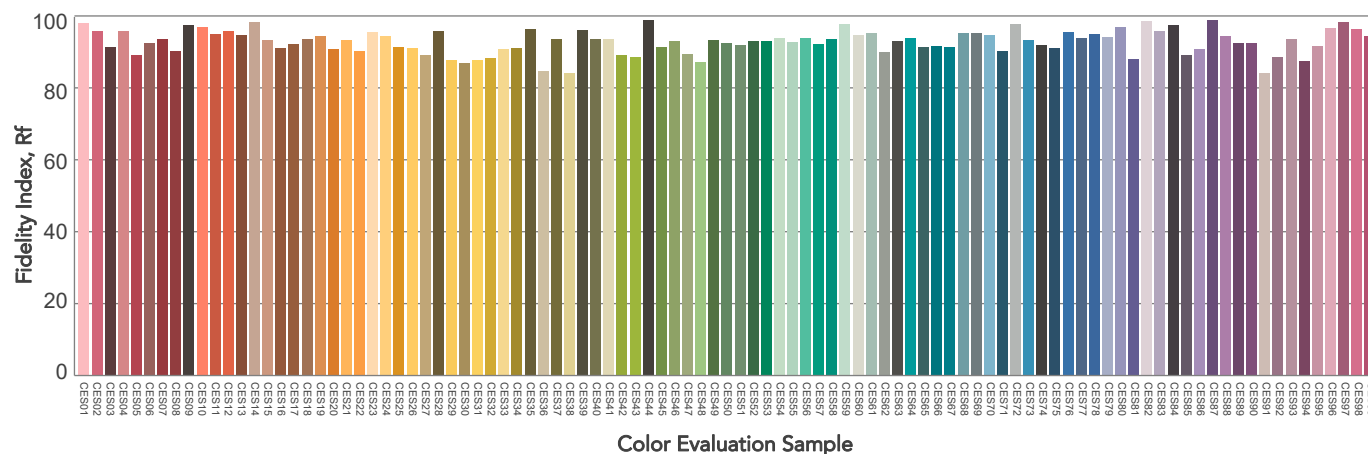
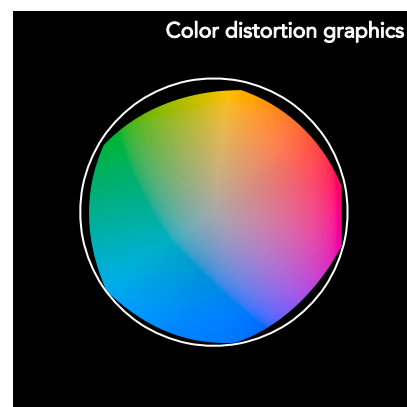
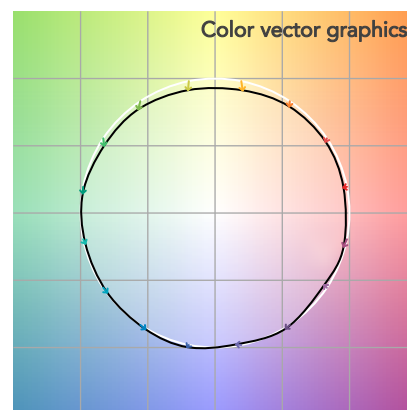
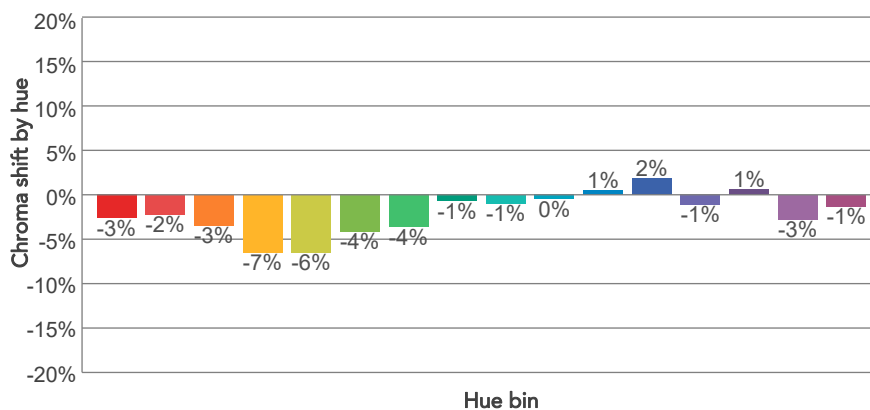
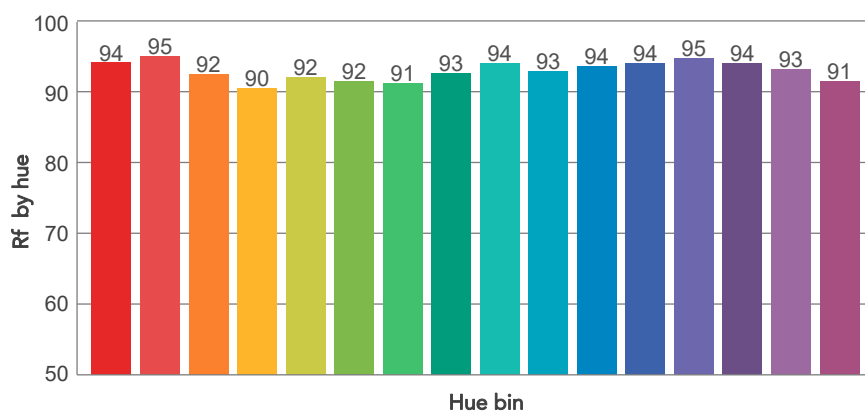
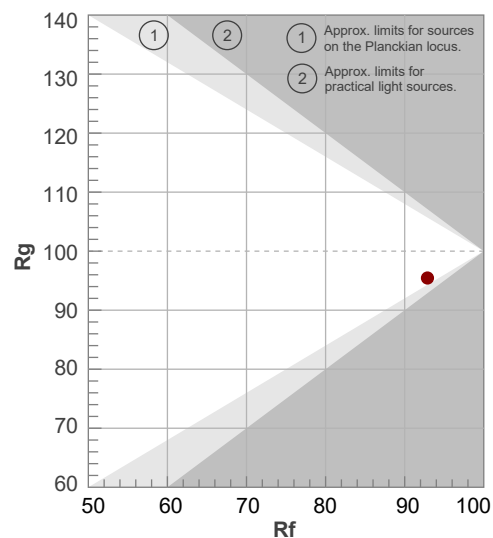
Rf 92,9

Fidelity index R_f

Rg 95,5

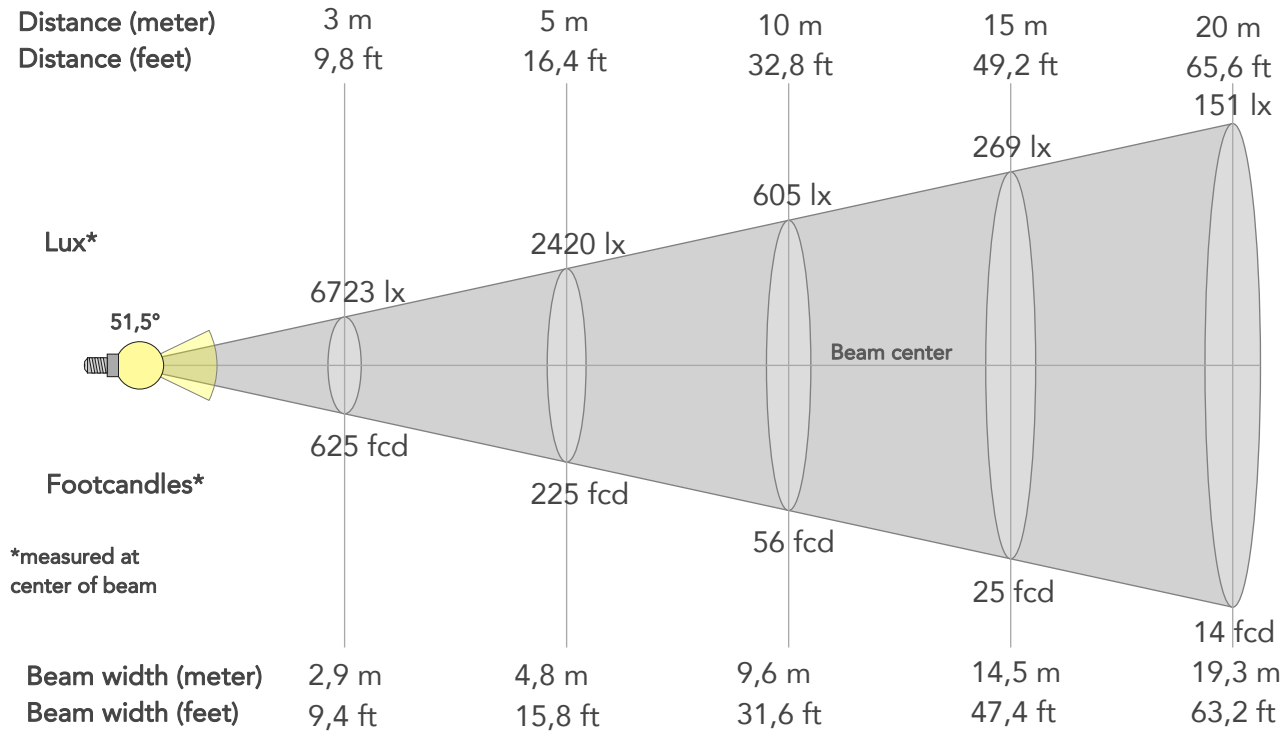
Gammut index

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	-3%	0%
2	95	-2%	-2%
3	92	-3%	-2%
4	90	-7%	-2%
5	92	-6%	2%
6	92	-4%	5%
7	91	-4%	4%
8	93	-1%	5%
9	94	-1%	3%
10	93	0%	5%
11	94	1%	5%
12	94	2%	-1%
13	95	-1%	-4%
14	94	1%	-4%
15	93	-3%	1%
16	91	-1%	-6%



BEAM DETAILS

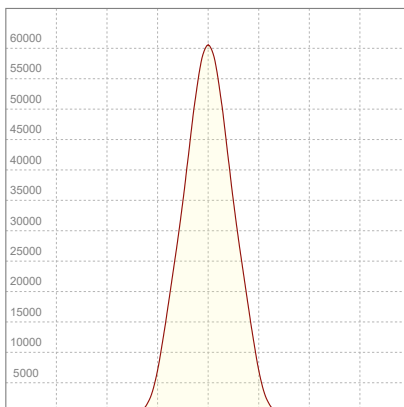
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,5°	92,2°	108,6°	99,0%	92,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	60506lx	15127lx	6723lx	3782lx	2420lx	1076lx	605lx	269lx	151lx	97lx	67lx	38lx	24lx
Footcand.	5621fcd	1405fcd	625fcd	351fcd	225fcd	100fcd	56fcd	25fcd	14fcd	9fcd	6fcd	4fcd	2fcd
Beam wid.	1m	1,9m	2,9m	3,9m	4,8m	7,2m	9,6m	14,5m	19,3m	24,1m	28,9m	38,6m	48,2m
Beam wid.	3,2ft	6,4ft	9,4ft	12,6ft	15,8ft	23,7ft	31,6ft	47,4ft	63,2ft	79ft	94,9ft	126,5ft	158,1ft

LINEAR DISTRIBUTION DIAGRAM

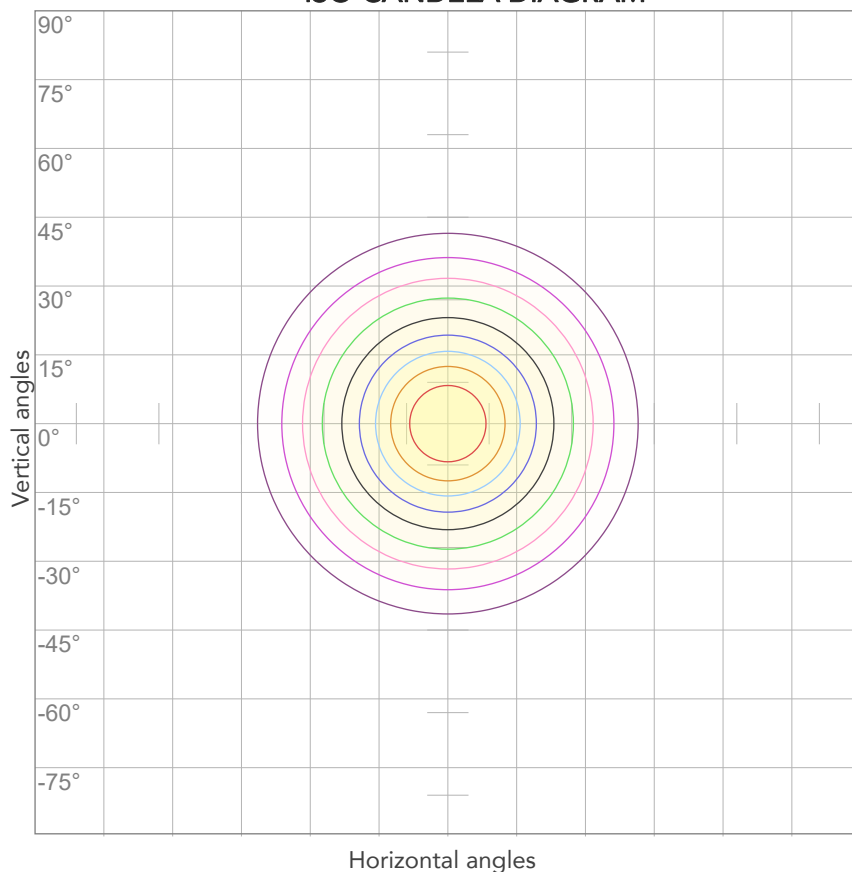


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	5,23A	1132,2W	0,96	45lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



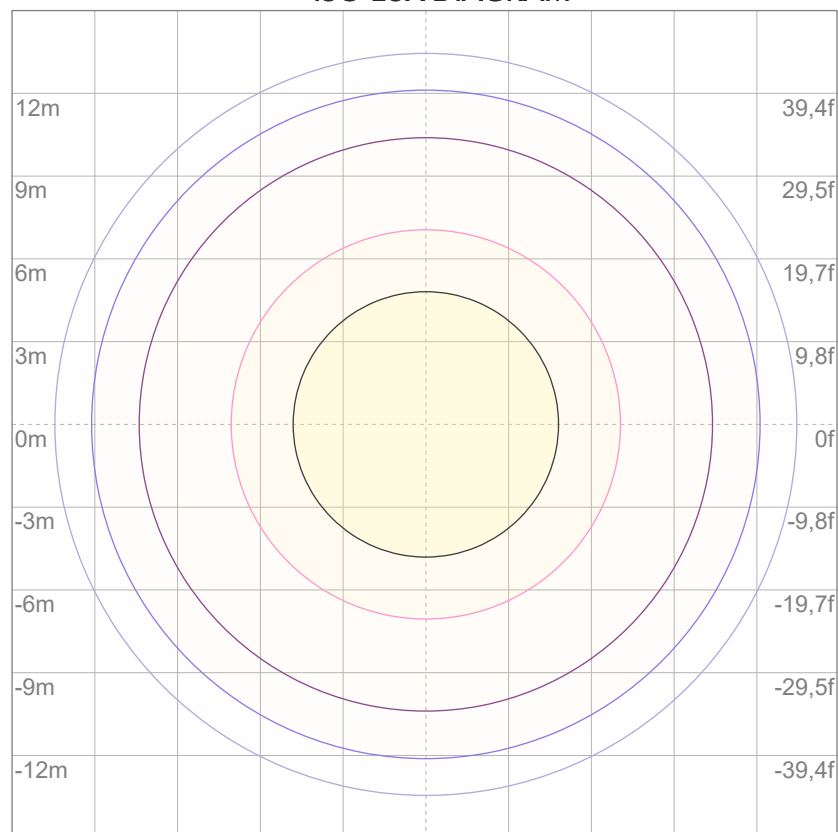
10%	6051 cd
20%	12101 cd
30%	18152 cd
40%	24203 cd
50%	30253 cd
60%	36304 cd
70%	42354 cd
80%	48405 cd

Conditions:

Number of c-planes: 2

Candela at center: 60506 cd

ISO LUX DIAGRAM



3%	18,2 lx
5%	30,3 lx
10%	60,5 lx
30%	182 lx
50%	303 lx

Conditions:

Number of c-planes: 2

Lux at center: 605 lx

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



Total lumen output:

66850 lm

Peak candela output:

76934 cd

Light quality:

CRI: 89,3

Color temperature:

7191 K

PRODUCT NAME:

SUNRISE4FLXVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

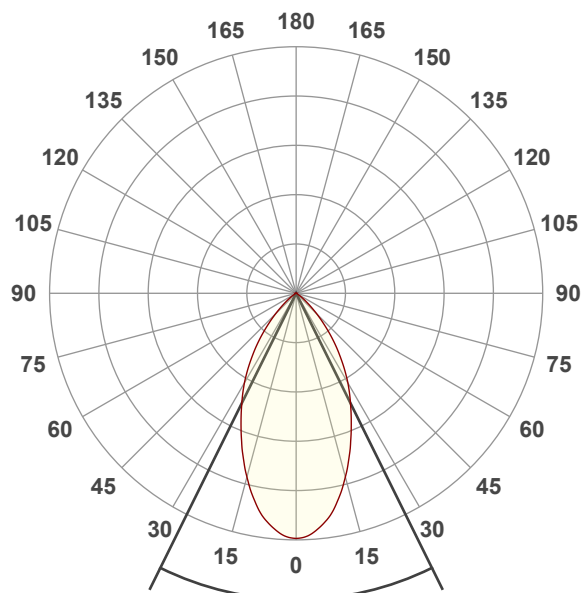
Cold White

Operator:

Giuseppe della Peruta

Date and time:

11/09/2025 13:03:09

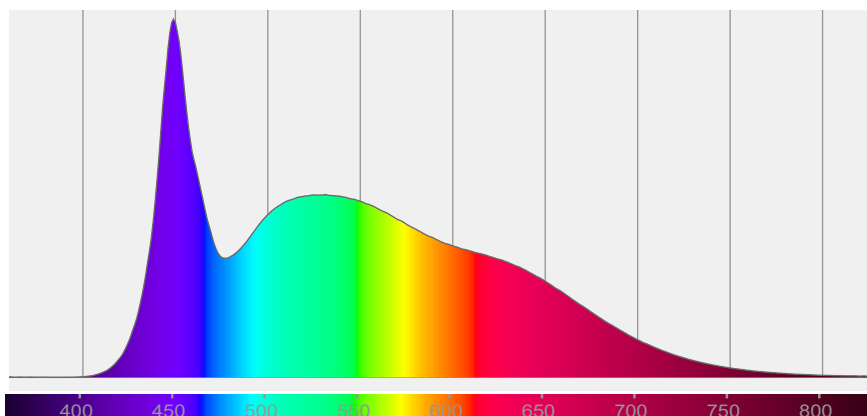


Beam angle 50%: 52,6°

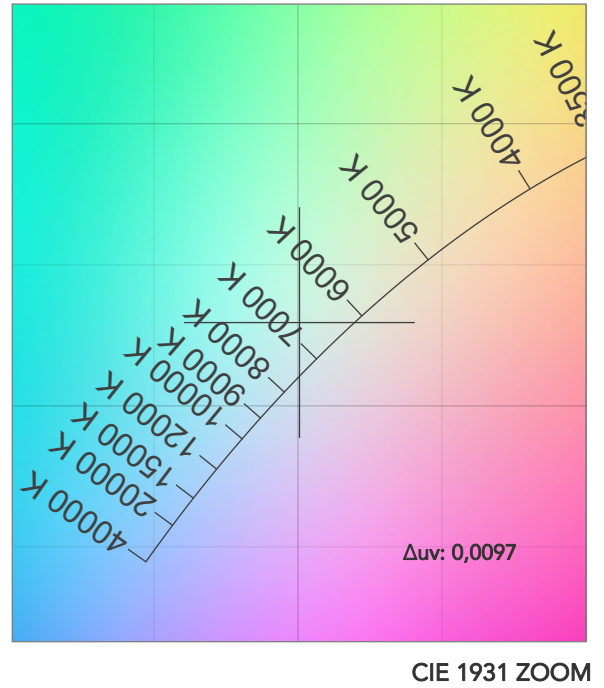
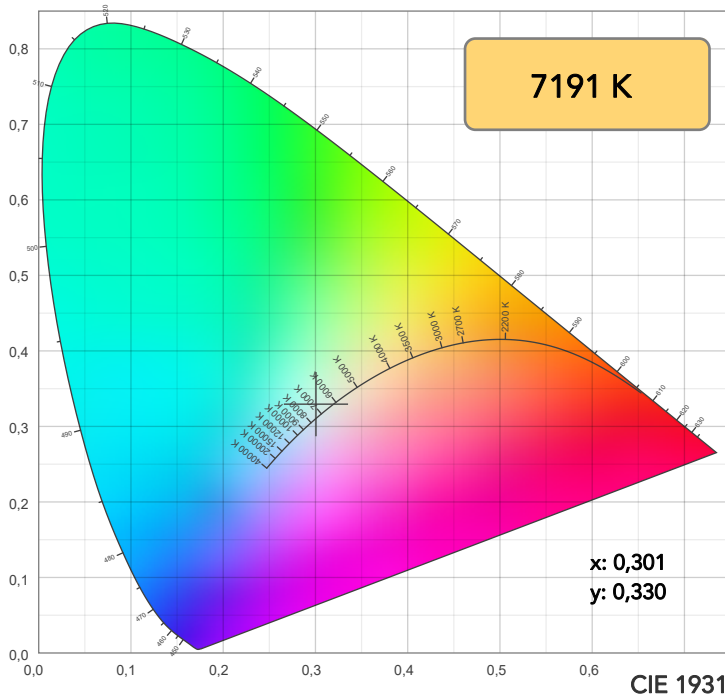
Field angle 10%: 92,6°

Cut off angle 2.5%: 109°

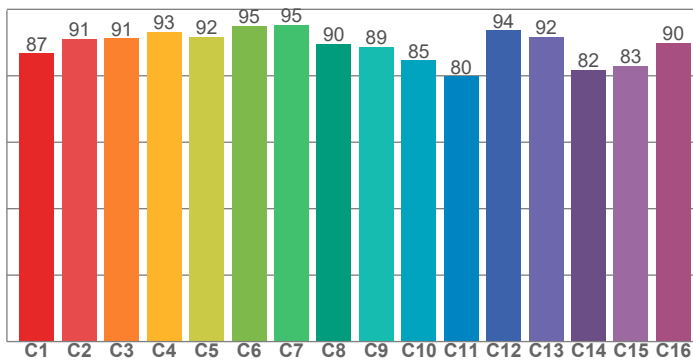
Spectra



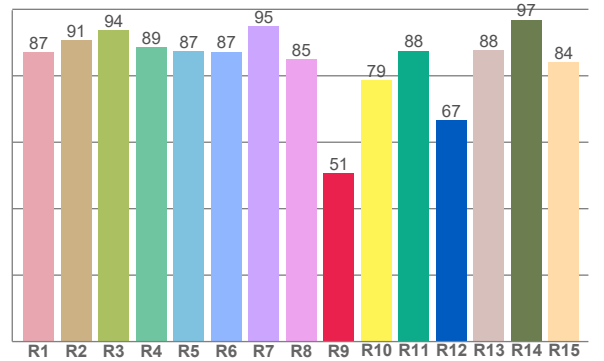
COLOR DETAILS



TM30: 89,6



CRI: 89,3 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
87,0	90,6	93,6	88,7	87,3	87,3	95,0	84,9	50,7	78,8	87,6	66,7	87,7	96,9	84,1

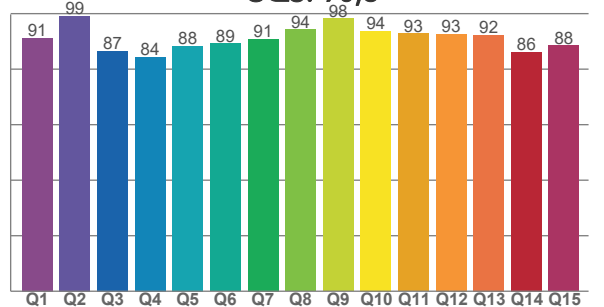
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
86,7	91,1	91,2	93,2	91,7	95,1	95,3	89,6	88,8	84,7	79,9	93,7	91,7	81,9	83,1	89,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,2	99,2	86,6	84,4	88,4	89,2	90,9	94,2	98,2	93,7	92,9	92,7	92,3	86,1	88,5

CQS: 90,3



COLOR PARAMETERS

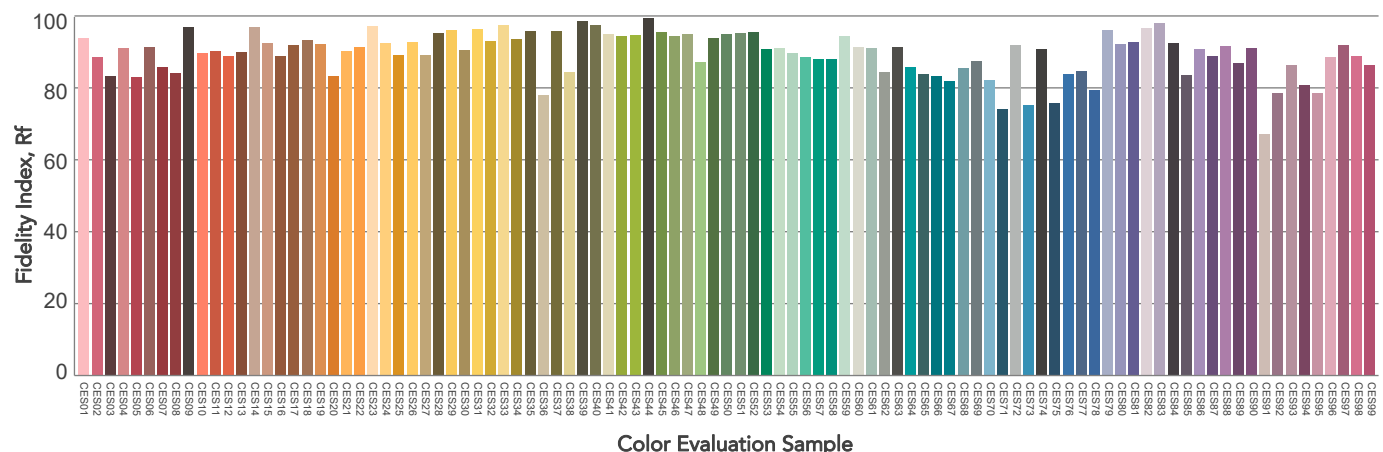
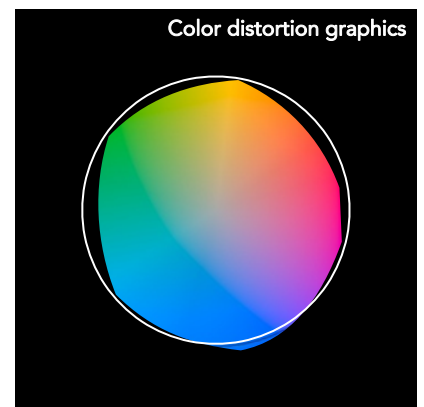
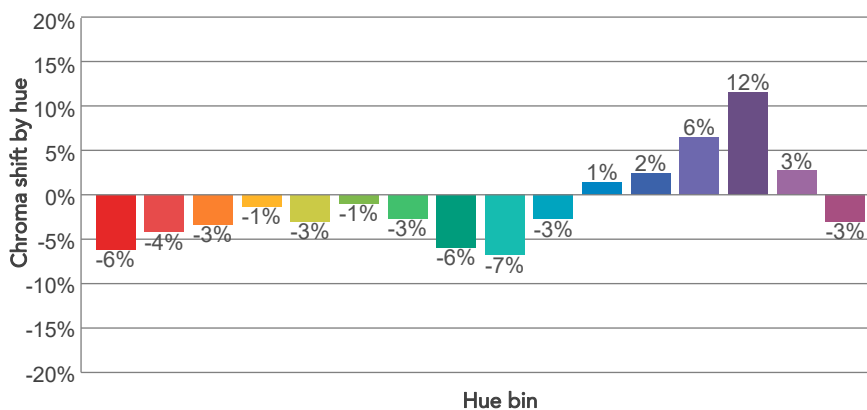
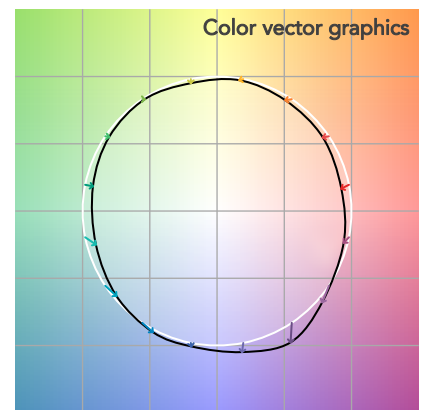
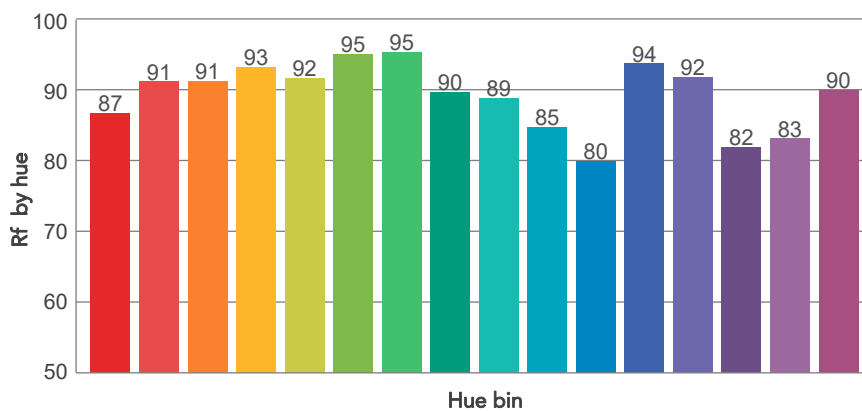
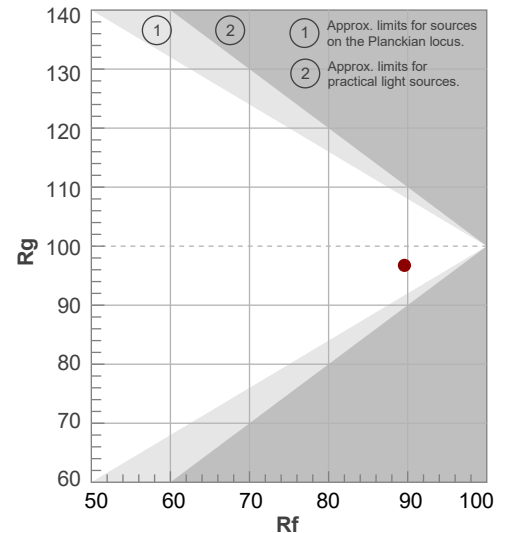
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
7191 K	89,3	50,7	89,6	96,7	90,3	95	0,301	0,330	0,0097

TM30 DETAILS

Rf 89,6
Fidelity index Rf

Rg 96,7
Gammut index

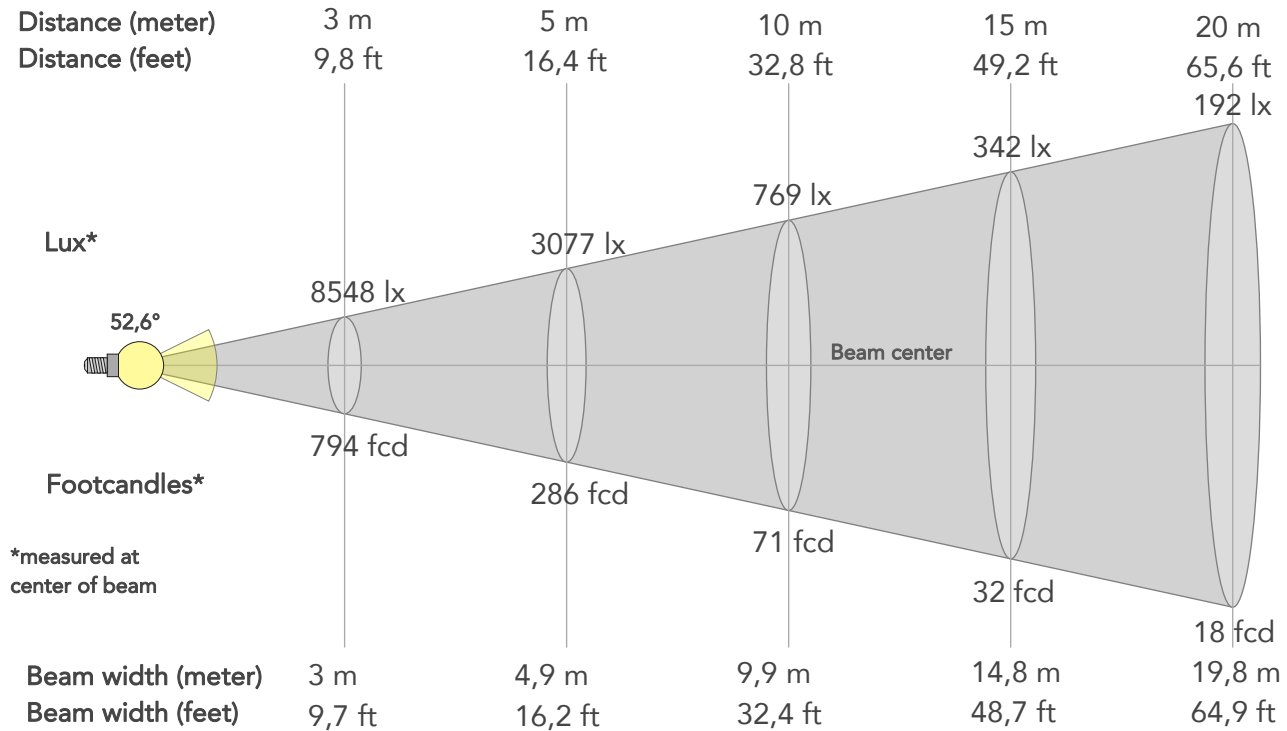
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	87	-6%	-2%
2	91	-4%	2%
3	91	-3%	4%
4	93	-1%	3%
5	92	-3%	1%
6	95	-1%	-1%
7	95	-3%	-1%
8	90	-6%	0%
9	89	-7%	7%
10	85	-3%	11%
11	80	1%	10%
12	94	2%	1%
13	92	6%	-2%
14	82	12%	-9%
15	83	3%	-13%
16	90	-3%	-5%



BEAM DETAILS



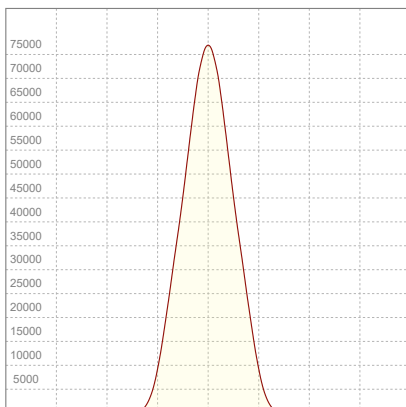
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,6°	92,6°	109°	98,9%	92,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	76934lx	19234lx	8548lx	4808lx	3077lx	1368lx	769lx	342lx	192lx	123lx	85lx	48lx	31lx
Footcand.	7147fcd	1787fcd	794fcd	447fcd	286fcd	127fcd	71fcd	32fcd	18fcd	11fcd	8fcd	4fcd	3fcd
Beam wid.	1m	2m	3m	4m	4,9m	7,4m	9,9m	14,8m	19,8m	24,7m	29,7m	39,6m	49,5m
Beam wid.	3,3ft	6,5ft	9,7ft	13ft	16,2ft	24,3ft	32,4ft	48,7ft	64,9ft	81,1ft	97,3ft	129,8ft	162,2ft

LINEAR DISTRIBUTION DIAGRAM

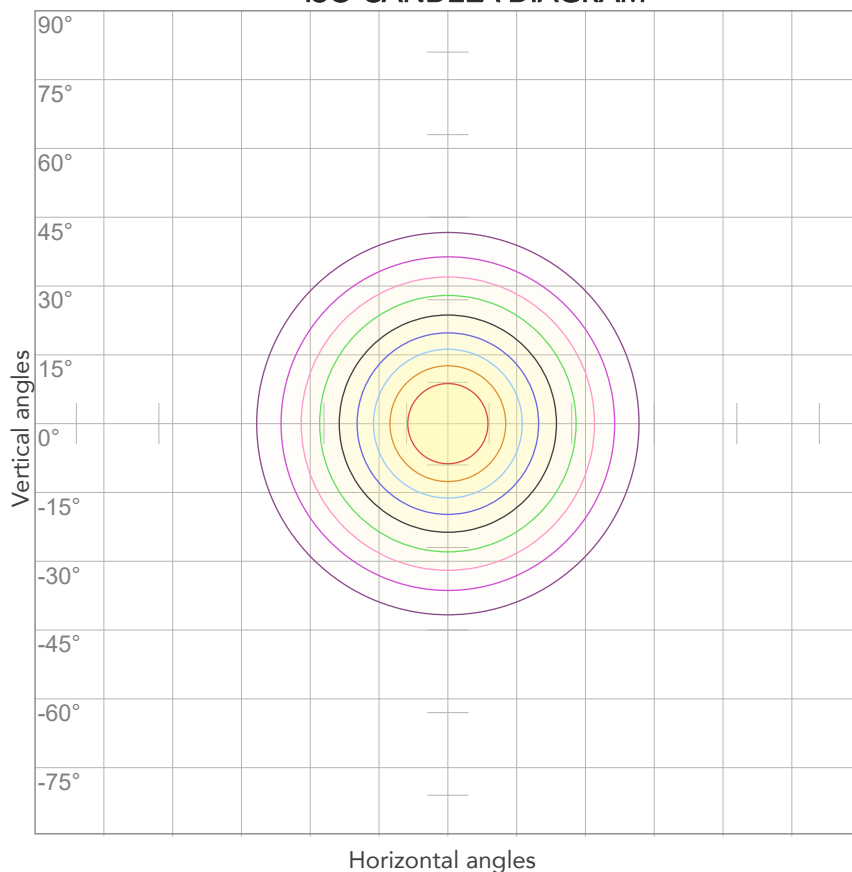


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	5,17A	1114,3W	0,96	60lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



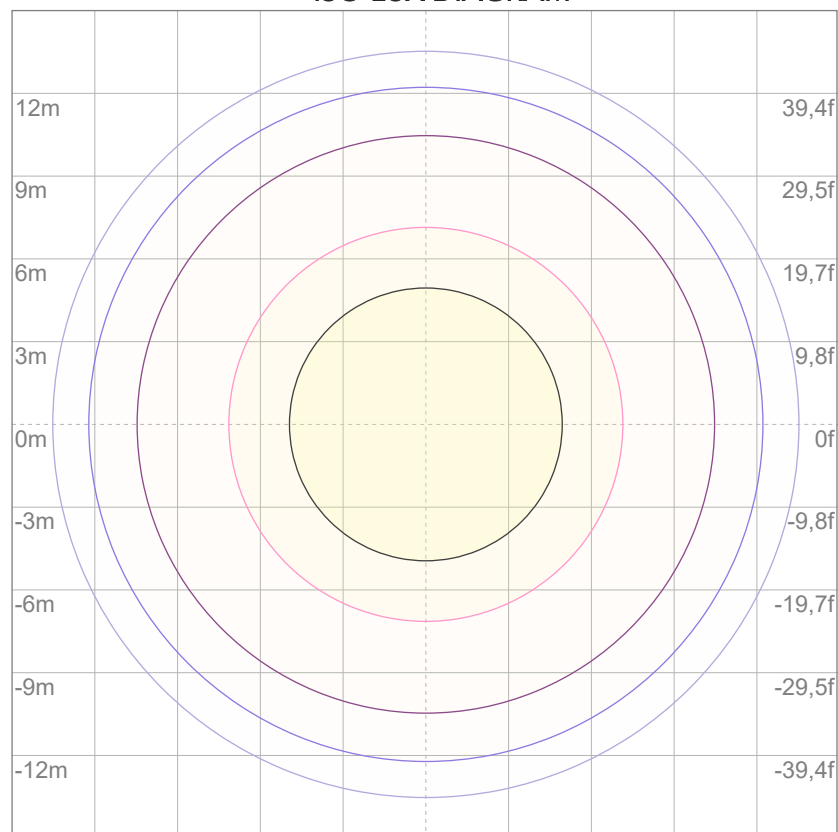
10%	7693 cd
20%	15387 cd
30%	23080 cd
40%	30774 cd
50%	38467 cd
60%	46160 cd
70%	53854 cd
80%	61547 cd

Conditions:

Number of c-planes: 2

Candela at center: 76934 cd

ISO LUX DIAGRAM



3%	23,1 lx
5%	38,5 lx
10%	76,9 lx
30%	231 lx
50%	385 lx

Conditions:

Number of c-planes: 2

Lux at center: 769 lx

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



Total lumen output:

3276 lm

Peak candela output:

4497 cd

Light quality:

CRI: 47,2

Color temperature:

1196 K

PRODUCT NAME:

SUNRISE4FLXVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

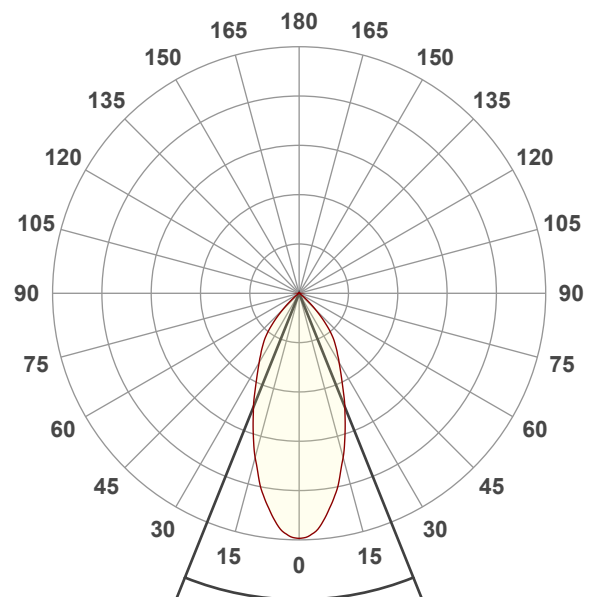
Amber

Operator:

Giuseppe della Peruta

Date and time:

11/09/2025 13:05:45

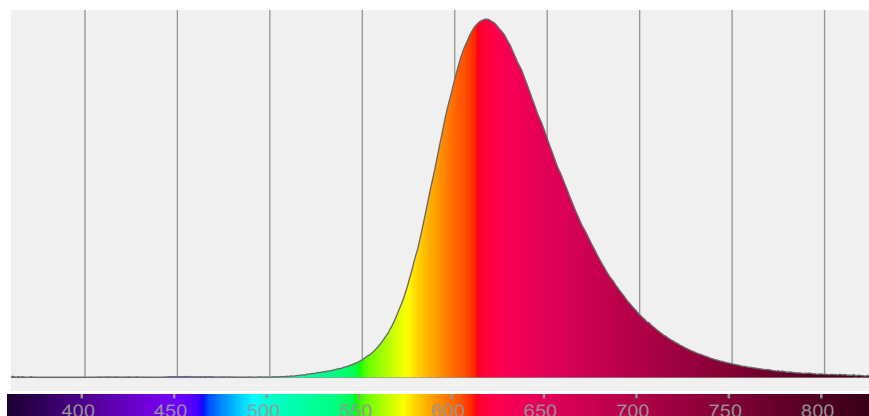


Beam angle 50%: 43,8°

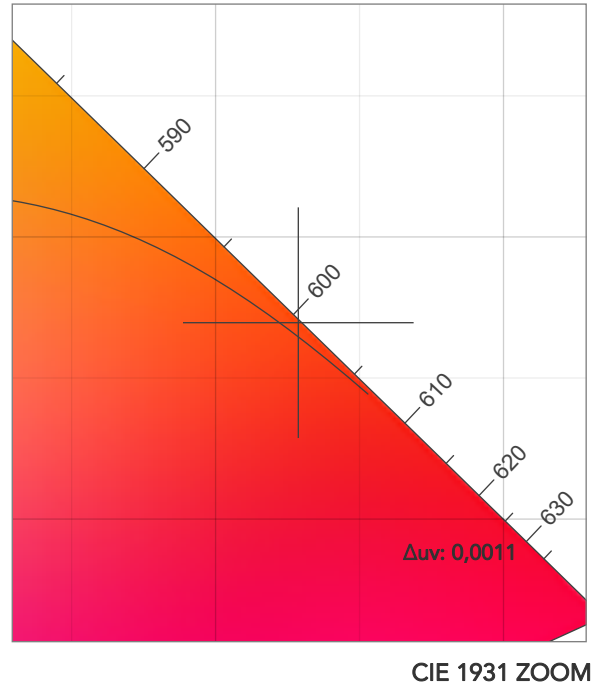
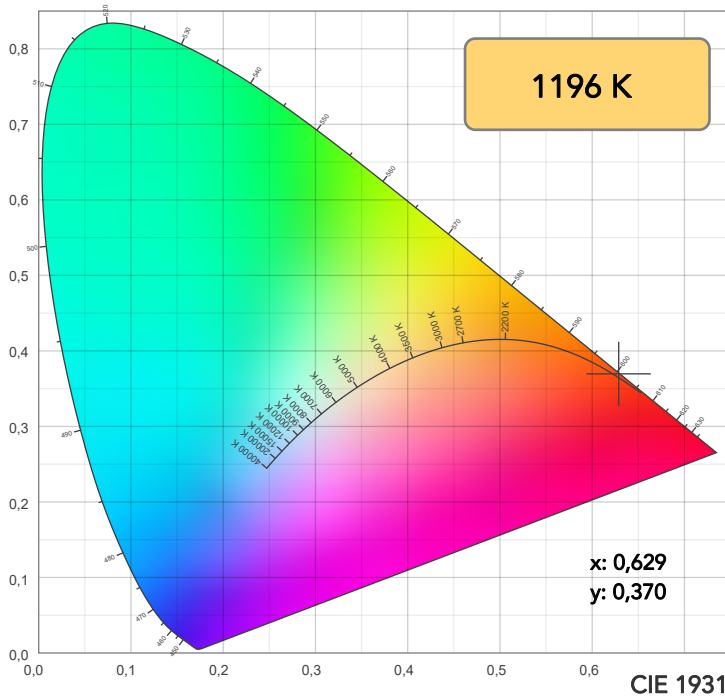
Field angle 10%: 89,5°

Cut off angle 2.5%: 102,4°

Spectra

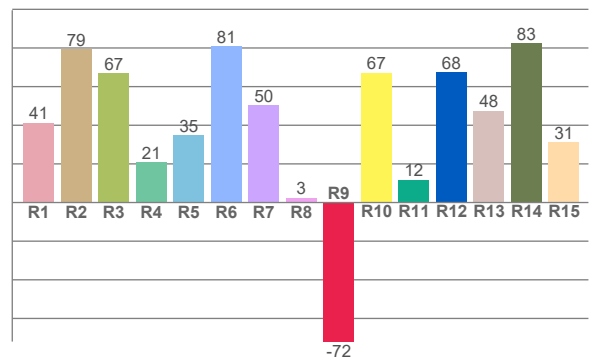
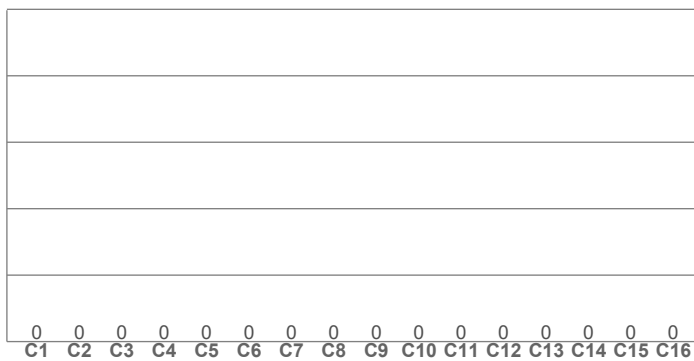


COLOR DETAILS



TM30: 0,0

CRI: 47,2 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

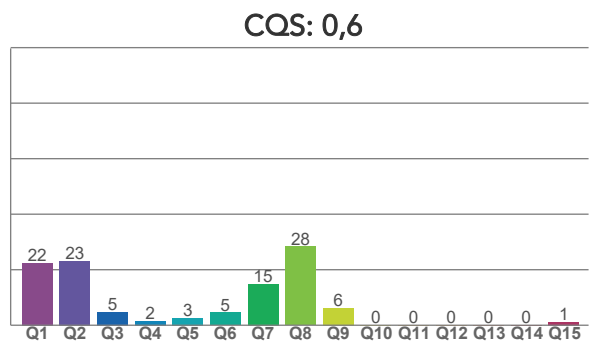
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
41,4	79,2	67,1	21,1	34,9	81,0	50,5	2,5	-72,0	67,2	11,8	67,6	47,6	82,6	31,3

TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
22,4	23,2	4,8	1,6	2,6	4,7	14,8	28,3	6,2	0,1	0,0	0,0	0,0	0,0	1,2



CQS: 0,6

COLOR PARAMETERS

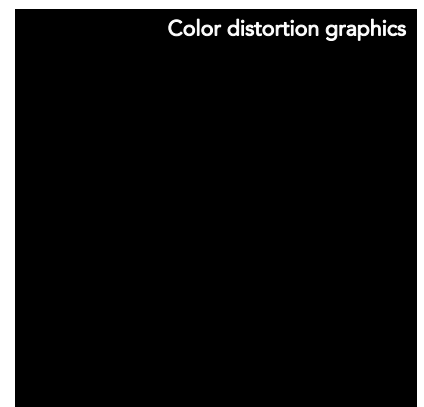
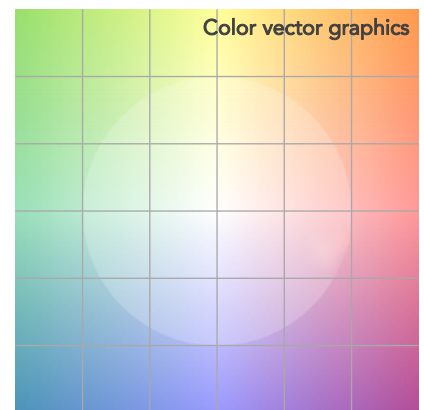
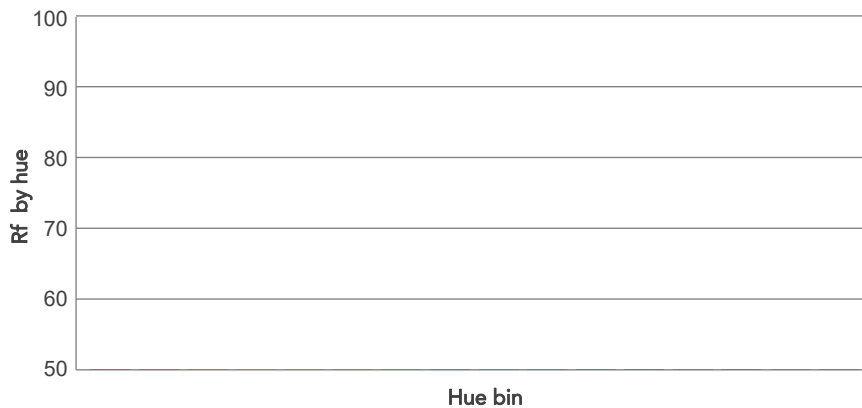
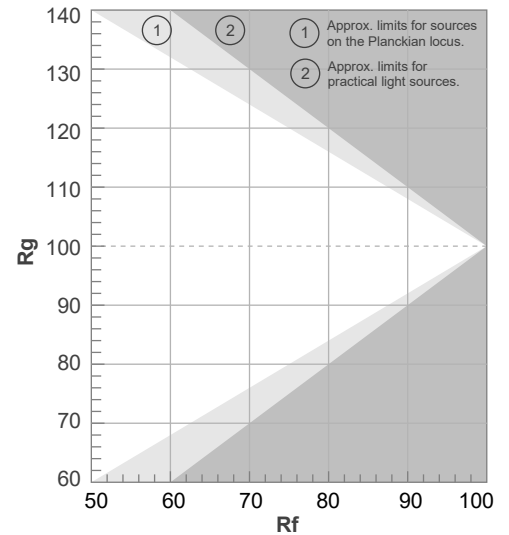
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
1196 K	47,2	-72,0	0,0	n/a	0,6	20	0,629	0,370	0,0011

TM30 DETAILS

Rf 0,0
Fidelity index Rf

Rg n/a
Gammut index

		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

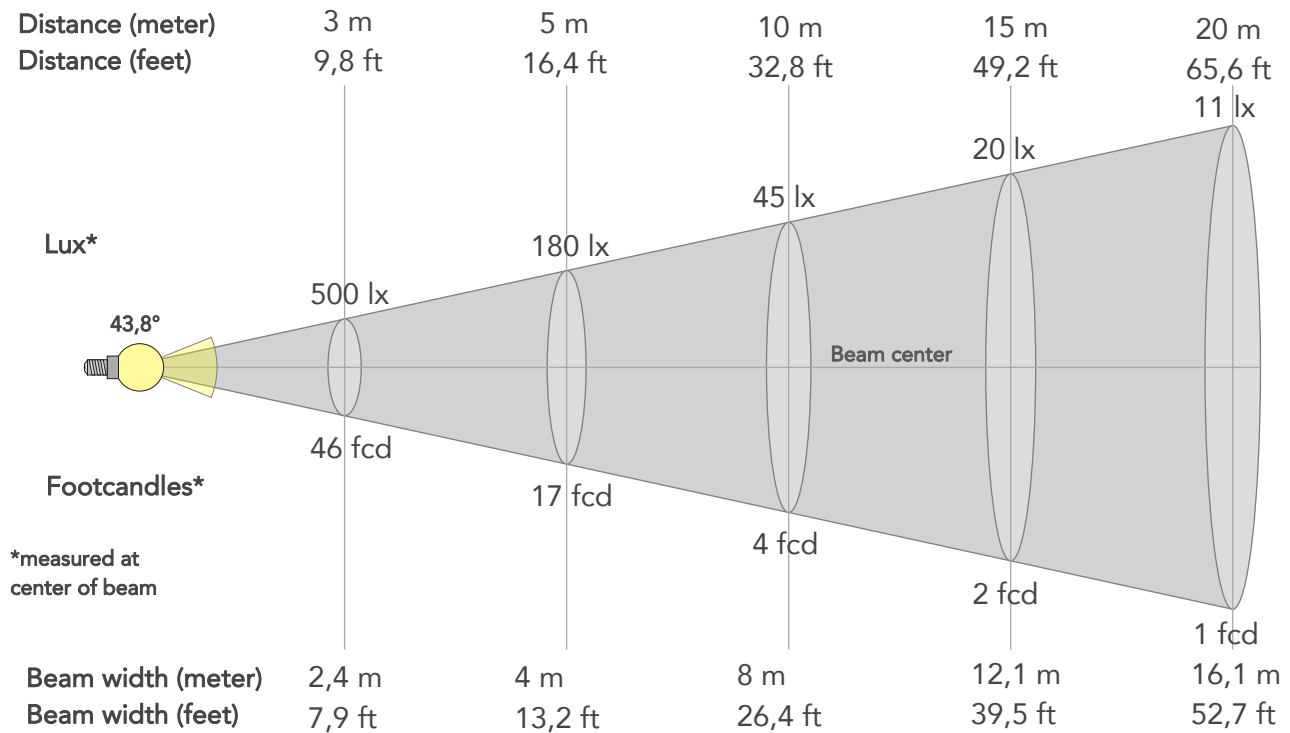


Color Evaluation Sample

BEAM DETAILS



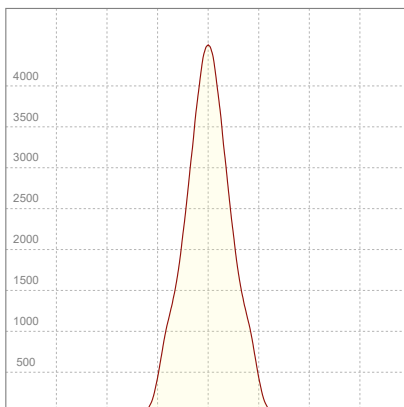
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
43,8°	89,5°	102,4°	99,0%	94,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4497lx	1124lx	500lx	281lx	180lx	80lx	45lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	418fcd	104fcd	46fcd	26fcd	17fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,6m	2,4m	3,2m	4m	6m	8m	12,1m	16,1m	20,1m	24,1m	32,1m	40,2m
Beam wid.	2,7ft	5,3ft	7,9ft	10,5ft	13,2ft	19,8ft	26,4ft	39,5ft	52,7ft	65,9ft	79,1ft	105,4ft	131,8ft

LINEAR DISTRIBUTION DIAGRAM

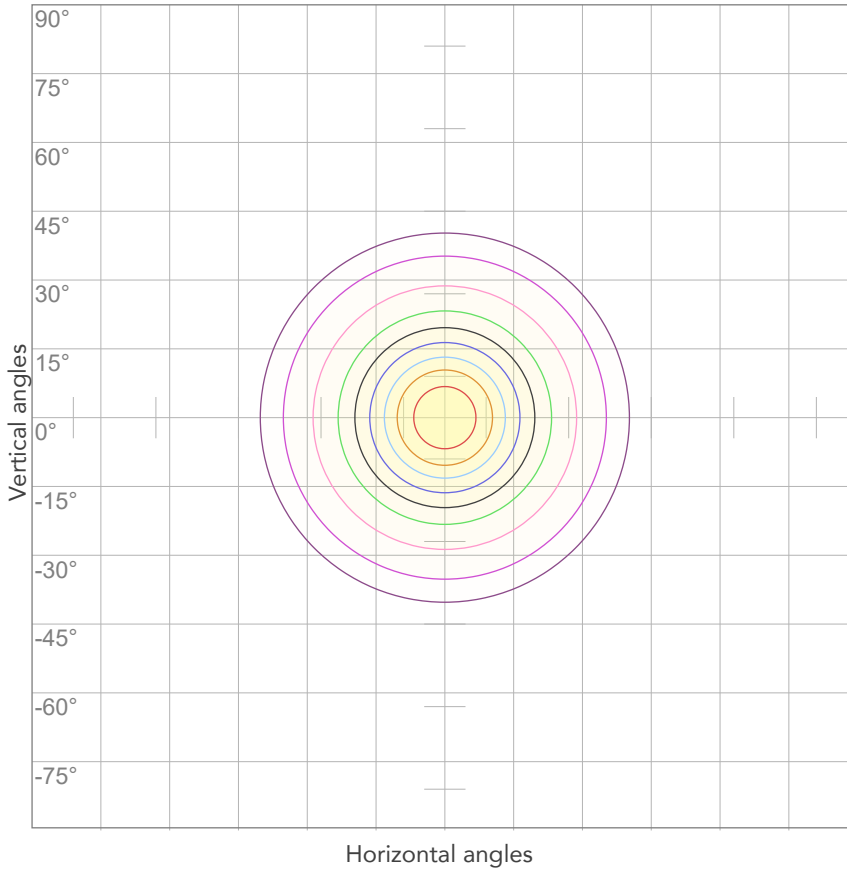


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,625A	100,2W	0,7	33lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



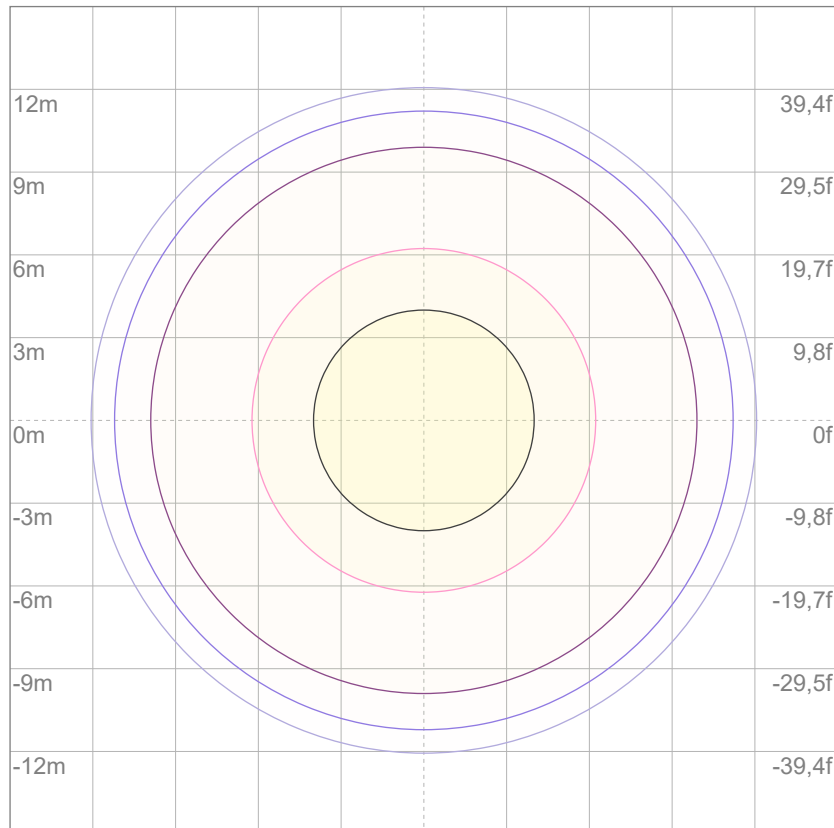
10%	450 cd
20%	899 cd
30%	1349 cd
40%	1799 cd
50%	2249 cd
60%	2698 cd
70%	3148 cd
80%	3598 cd

Conditions:

Number of c-planes: 2

Candela at center: 4497 cd

ISO LUX DIAGRAM



3%	1,35 lx
5%	2,25 lx
10%	4,50 lx
30%	13,5 lx
50%	22,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 45,0 lx

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



Total lumen output:

58656 lm

Peak candela output:

67961 cd

Light quality:

CRI: 97,0

Color temperature:

2810 K

PRODUCT NAME:

SUNRISE4FLXVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

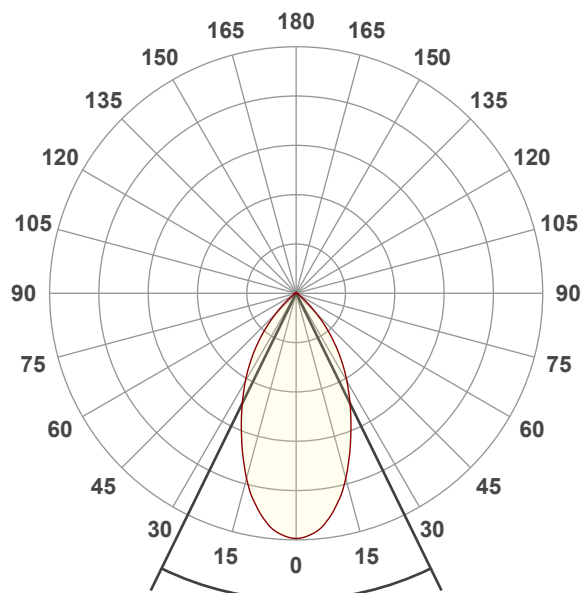
2800K

Operator:

Giuseppe della Peruta

Date and time:

11/09/2025 13:09:59

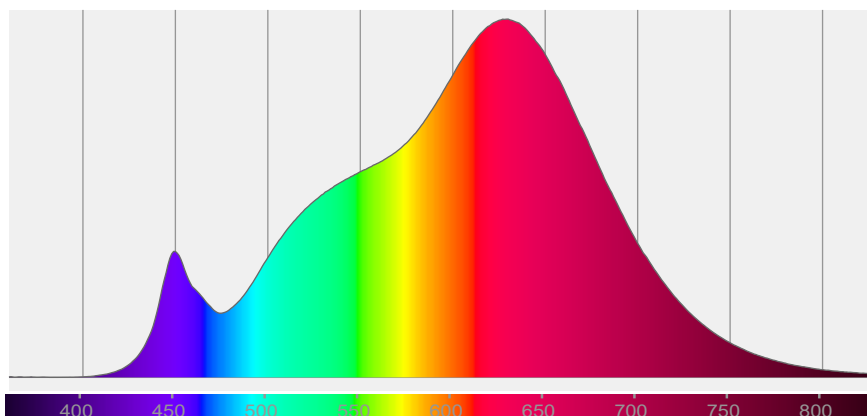


Beam angle 50%: 52,1°

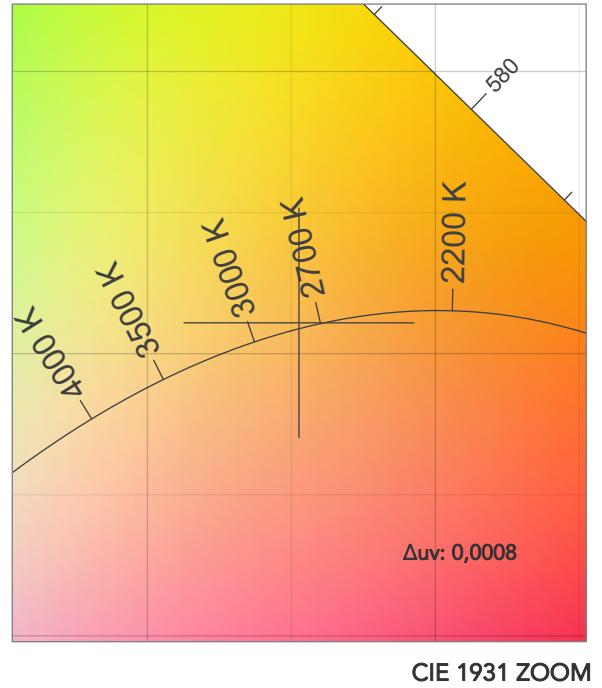
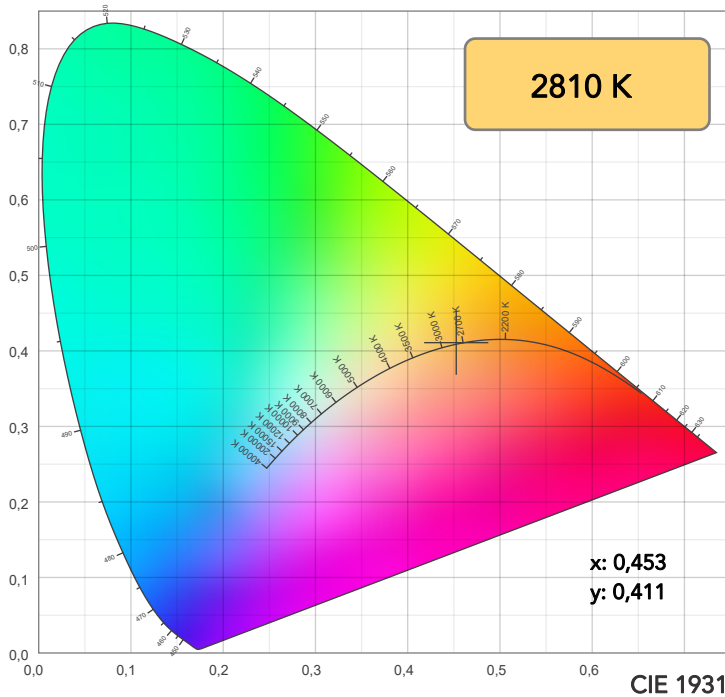
Field angle 10%: 92,5°

Cut off angle 2.5%: 108,5°

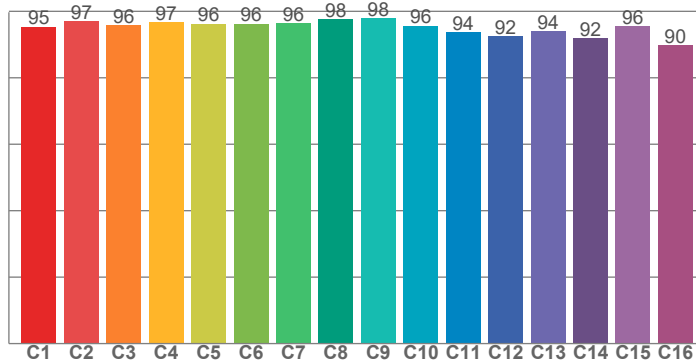
Spectra



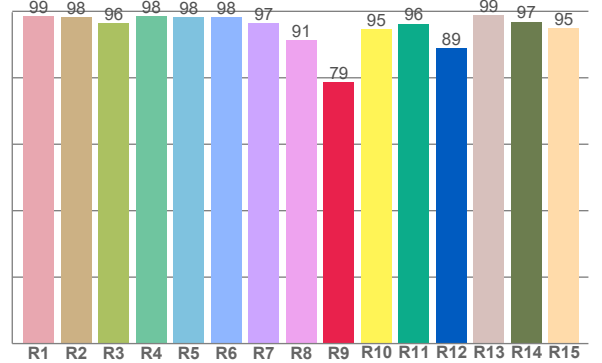
COLOR DETAILS



TM30: 95,2



CRI: 97,0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98,6	98,3	96,3	98,4	98,3	98,2	96,5	91,4	78,7	94,7	96,3	88,9	98,8	96,9	94,9

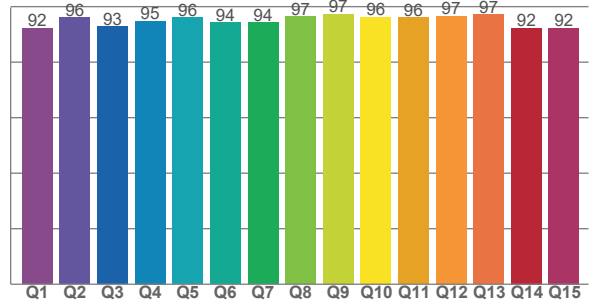
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,4	97,0	95,8	96,6	96,3	96,2	96,3	97,5	97,9	95,6	93,8	92,5	93,9	91,8	95,6	89,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,2	96,1	92,9	94,9	96,0	94,3	94,3	96,5	97,3	96,2	96,1	96,7	97,2	92,3	92,2

CQS: 94,5



COLOR PARAMETERS

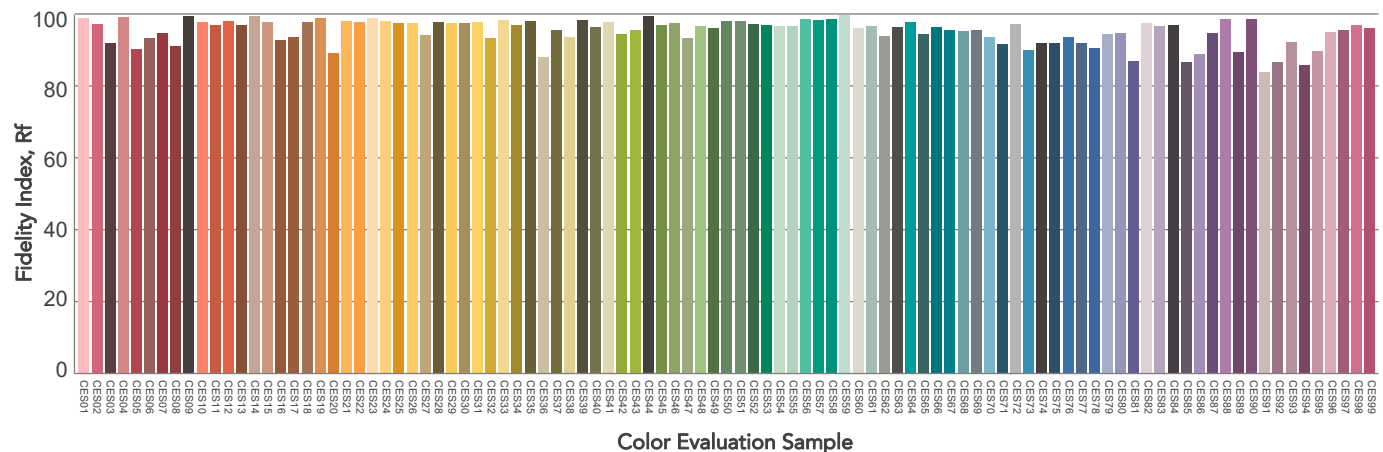
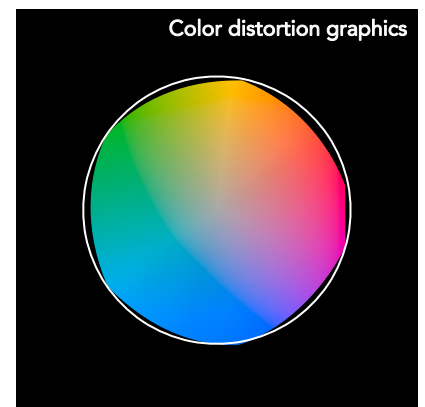
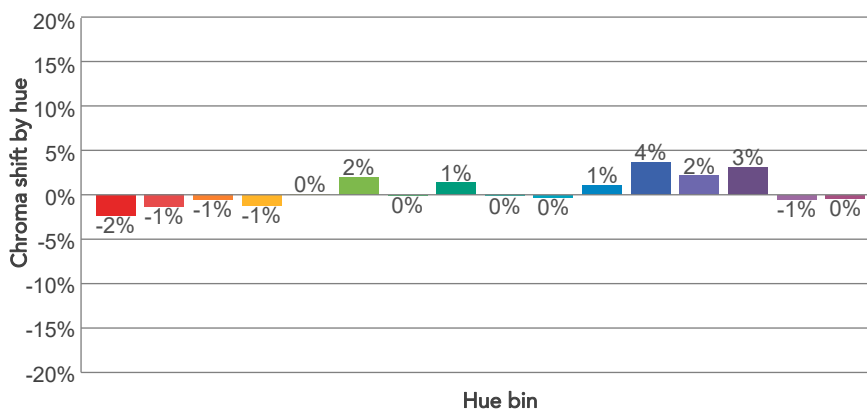
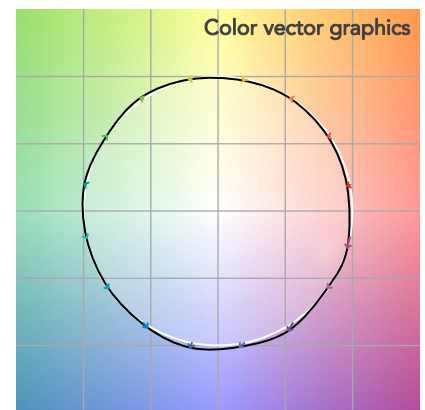
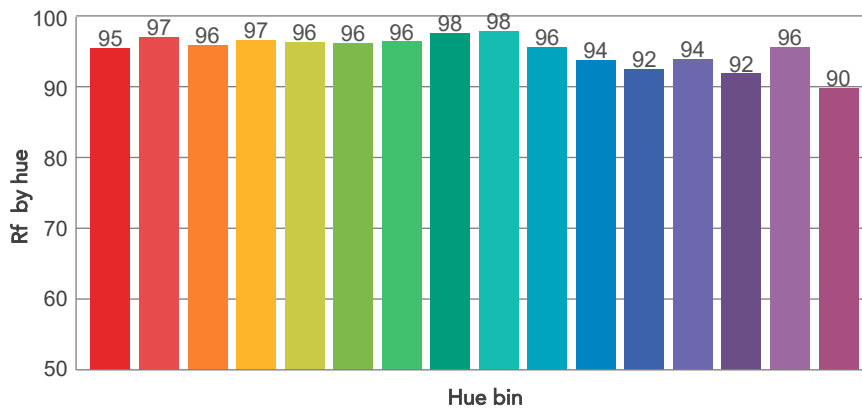
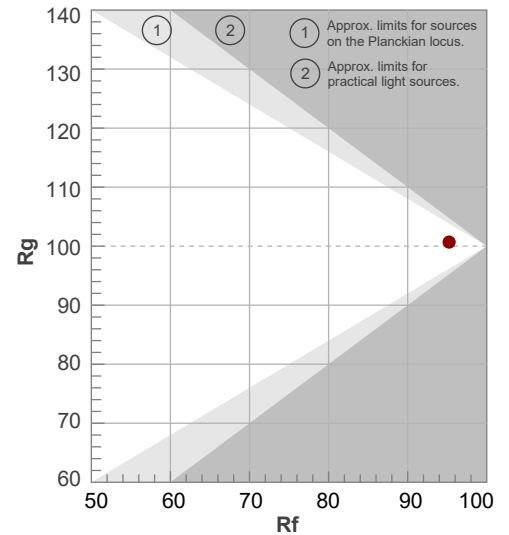
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2810 K	97,0	78,7	95,2	100,7	94,5	96	0,453	0,411	0,0008

TM30 DETAILS

Rf 95,2
Fidelity index Rf

Rg 100,7
Gammut index

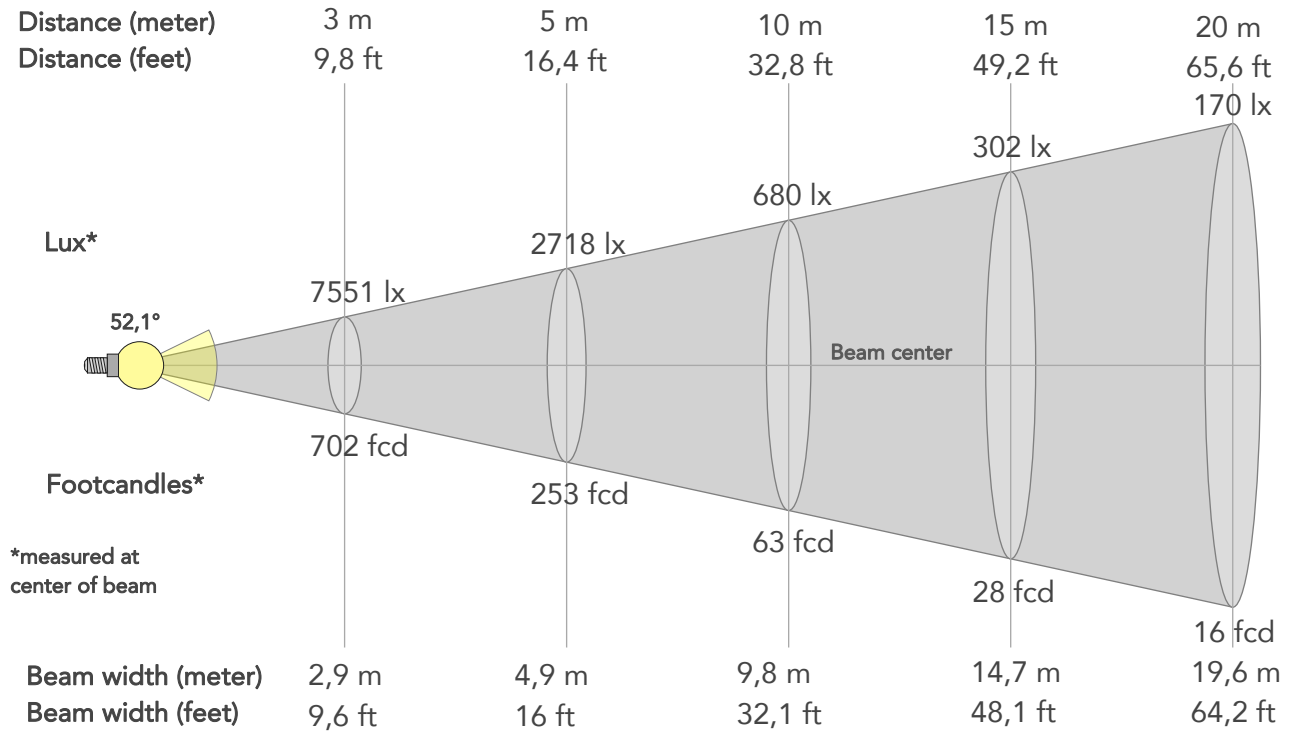
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	97	-1%	1%
3	96	-1%	2%
4	97	-1%	0%
5	96	0%	2%
6	96	2%	1%
7	96	0%	-1%
8	98	1%	0%
9	98	0%	1%
10	96	0%	2%
11	94	1%	4%
12	92	4%	0%
13	94	2%	-4%
14	92	3%	-6%
15	96	-1%	-2%
16	90	0%	-8%



BEAM DETAILS



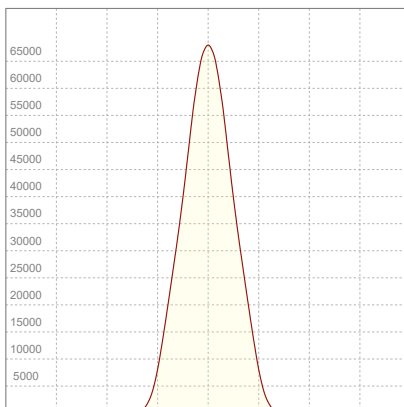
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,1°	92,5°	108,5°	99,0%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	67961lx	16990lx	7551lx	4248lx	2718lx	1208lx	680lx	302lx	170lx	109lx	76lx	42lx	27lx
Footcand.	6314fcd	1578fcd	702fcd	395fcd	253fcd	112fcd	63fcd	28fcd	16fcd	10fcd	7fcd	4fcd	3fcd
Beam wid.	1m	2m	2,9m	3,9m	4,9m	7,3m	9,8m	14,7m	19,6m	24,5m	29,3m	39,1m	48,9m
Beam wid.	3,2ft	6,5ft	9,6ft	12,8ft	16ft	24,1ft	32,1ft	48,1ft	64,2ft	80,2ft	96,3ft	128,4ft	160,4ft

LINEAR DISTRIBUTION DIAGRAM

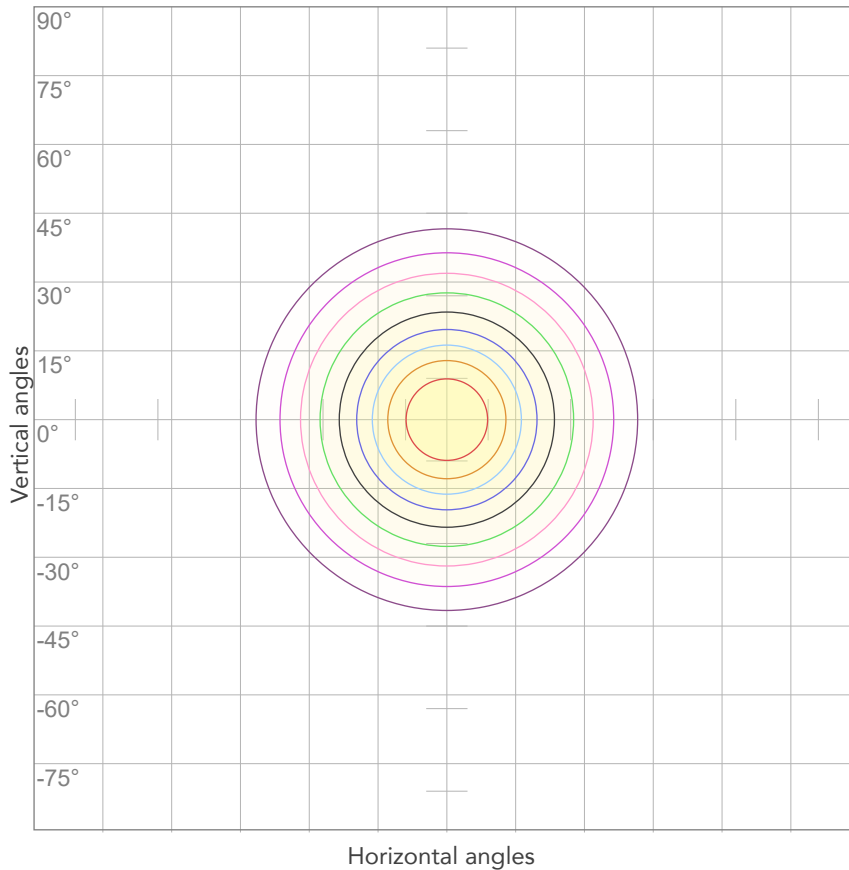


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
224V	6,07A	1309,1W	0,96	45lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



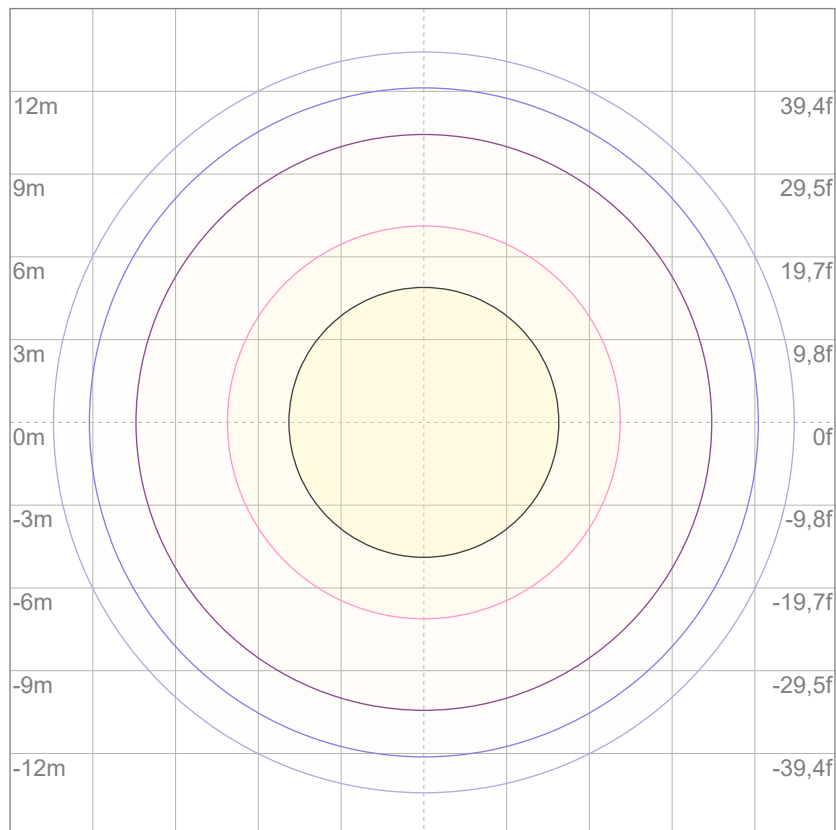
10%	6796 cd
20%	13592 cd
30%	20388 cd
40%	27184 cd
50%	33981 cd
60%	40777 cd
70%	47573 cd
80%	54369 cd

Conditions:

Number of c-planes: 2

Candela at center: 67961 cd

ISO LUX DIAGRAM



3%	20,4 lx
5%	34,0 lx
10%	68,0 lx
30%	204 lx
50%	340 lx

Conditions:

Number of c-planes: 2

Lux at center: 680 lx

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



Total lumen output:

49536 lm

Peak candela output:

59351 cd

Light quality:

CRI: 97,5

Color temperature:

3234 K

PRODUCT NAME:

SUNRISE4FLXVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

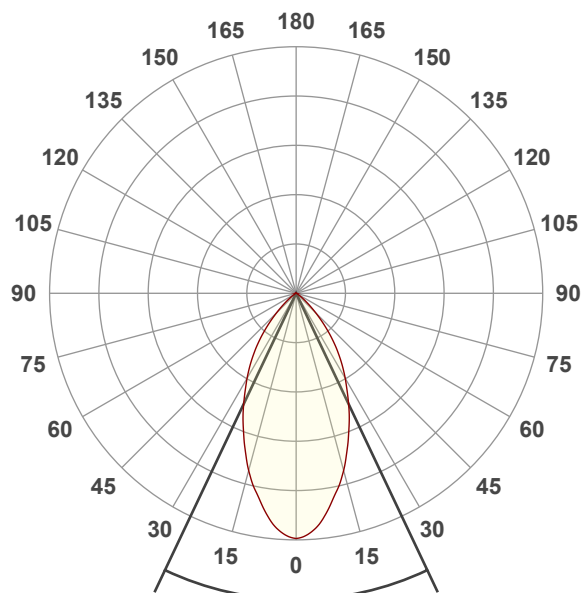
3200K

Operator:

Giuseppe della Peruta

Date and time:

11/09/2025 13:18:35

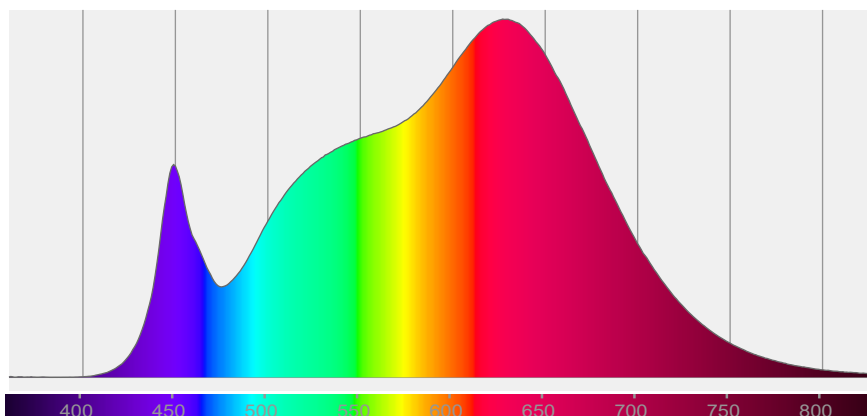


Beam angle 50%: 50,7°

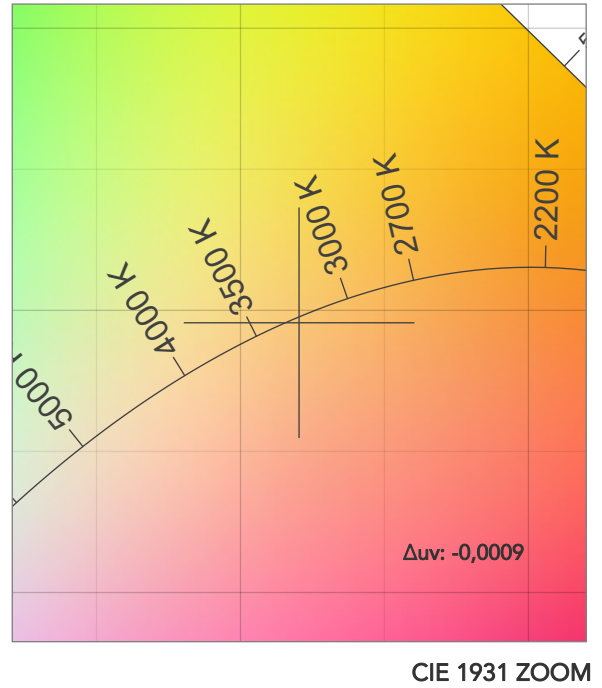
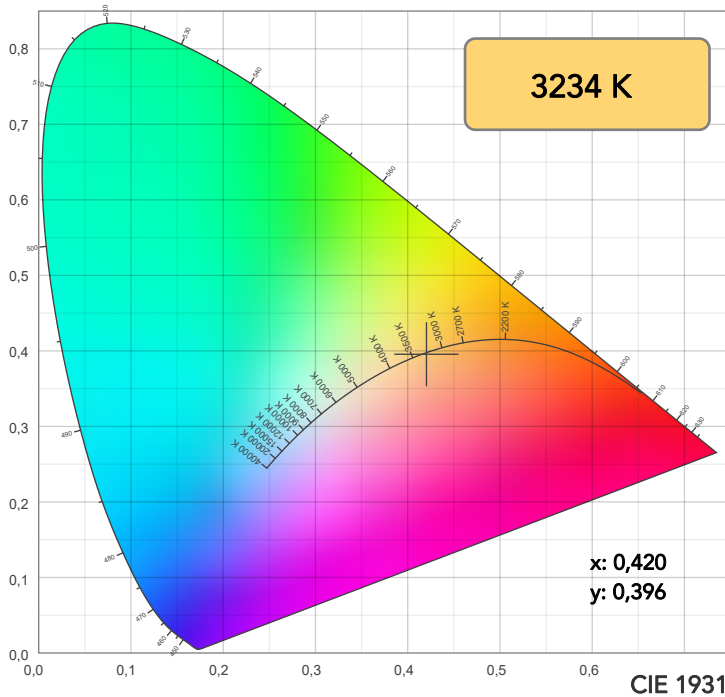
Field angle 10%: 91,9°

Cut off angle 2.5%: 108,1°

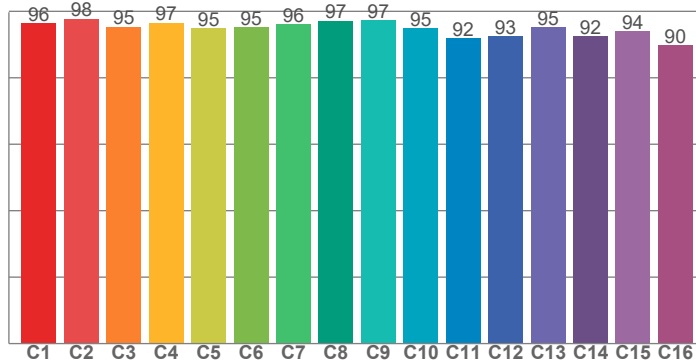
Spectra



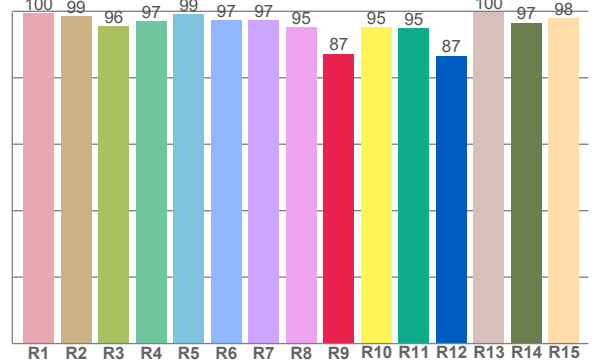
COLOR DETAILS



TM30: 95,0



CRI: 97,5 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99,6	98,6	95,5	97,1	99,3	97,3	97,4	95,3	87,2	95,3	95,0	86,7	99,8	96,6	97,9

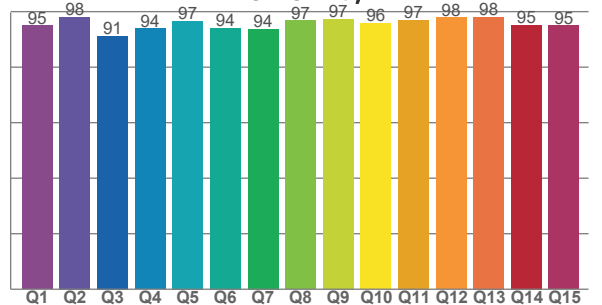
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,5	97,7	95,4	96,5	95,0	95,2	96,1	97,2	97,3	94,9	91,9	92,5	95,2	92,5	93,9	89,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,0	98,0	91,2	93,8	96,7	94,2	93,7	96,8	97,3	95,8	97,0	97,9	98,1	95,3	95,1

CQS: 95,2



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3234 K	97,5	87,2	95,0	102,2	95,2	97	0,420	0,396	-0,0009

TM30 DETAILS

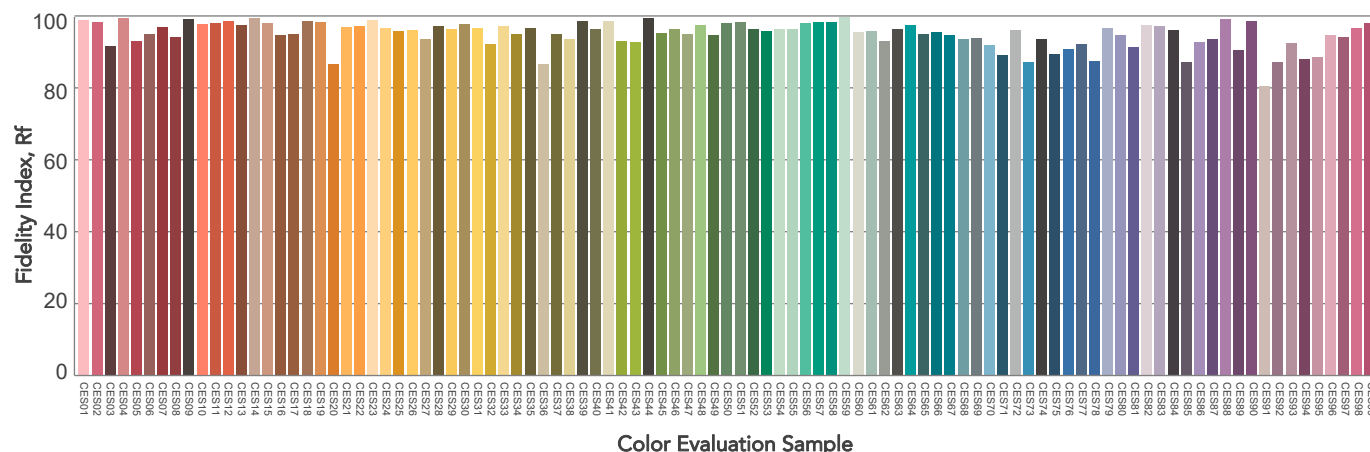
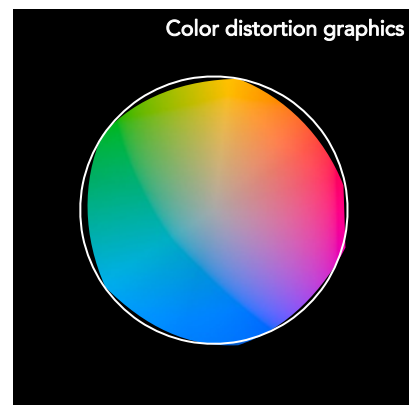
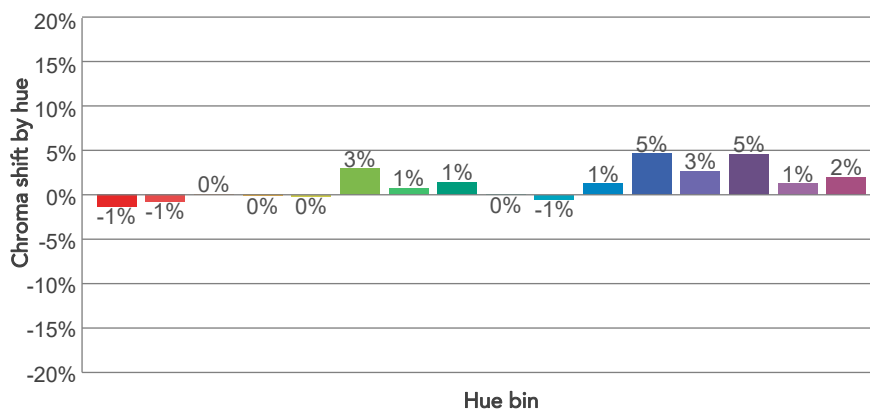
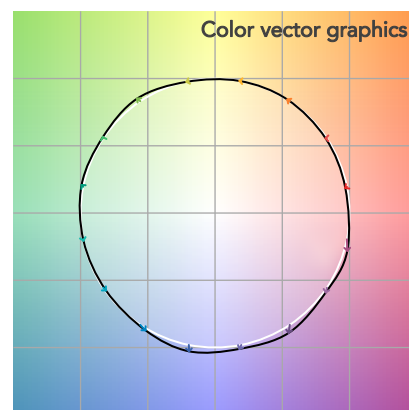
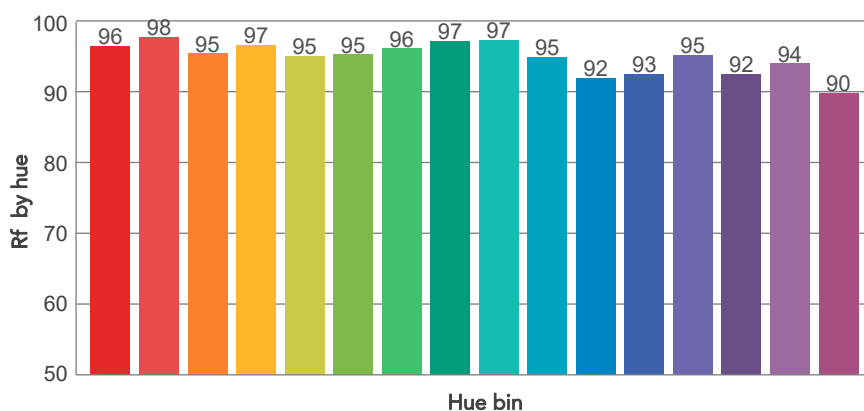
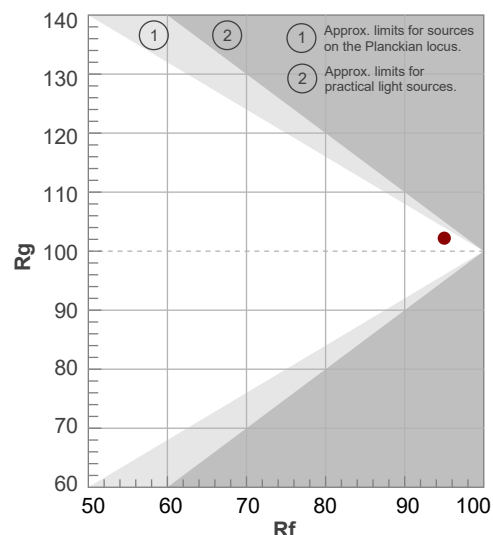
Rf 95,0

Fidelity index Rf

Rg 102,2

Gammut index

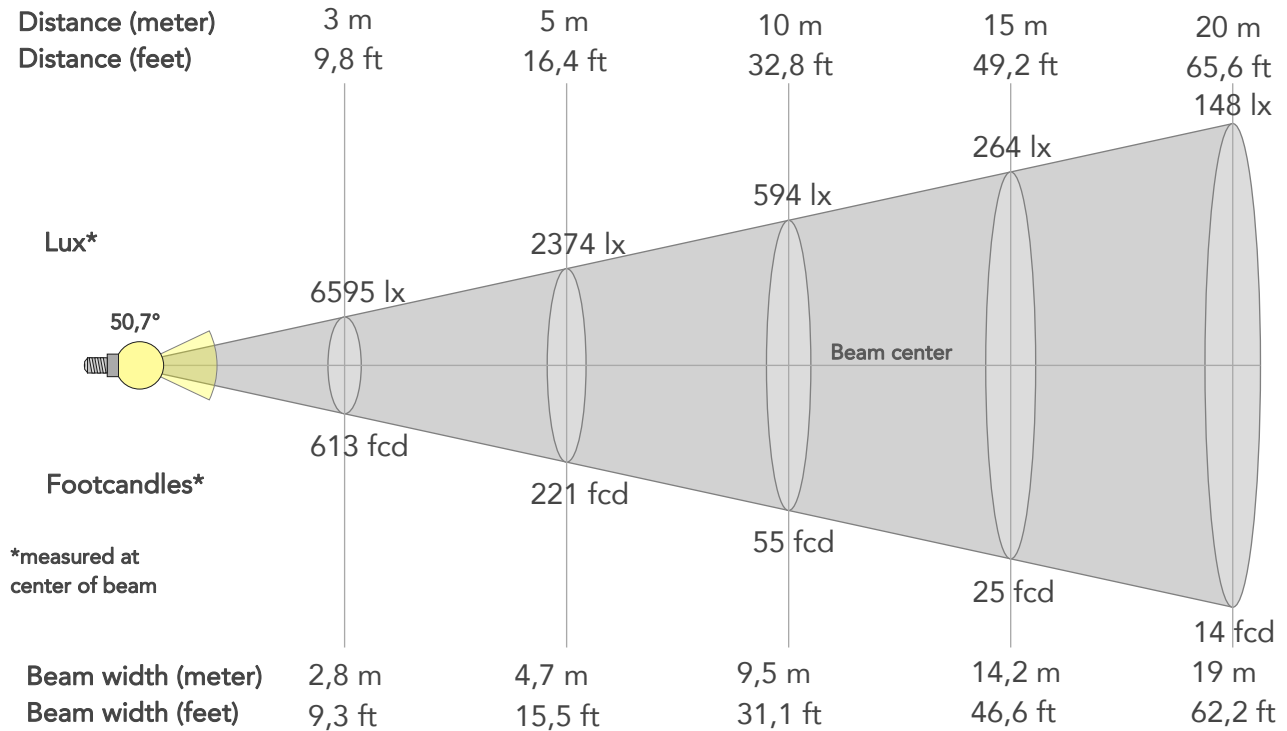
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	-1%	-1%
2	98	-1%	1%
3	95	0%	2%
4	97	0%	1%
5	95	0%	2%
6	95	3%	1%
7	96	1%	-1%
8	97	1%	-1%
9	97	0%	1%
10	95	-1%	3%
11	92	1%	5%
12	93	5%	1%
13	95	3%	-2%
14	92	5%	-4%
15	94	1%	-3%
16	90	2%	-8%



BEAM DETAILS



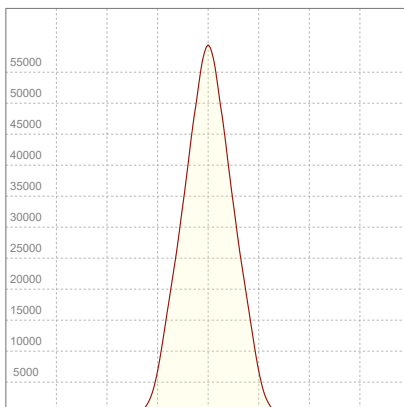
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50,7°	91,9°	108,1°	99,0%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	59351lx	14838lx	6595lx	3709lx	2374lx	1055lx	594lx	264lx	148lx	95lx	66lx	37lx	24lx
Footcand.	5514fcd	1378fcd	613fcd	345fcd	221fcd	98fcd	55fcd	25fcd	14fcd	9fcd	6fcd	3fcd	2fcd
Beam wid.	0,9m	1,9m	2,8m	3,8m	4,7m	7,1m	9,5m	14,2m	19m	23,7m	28,4m	37,9m	47,4m
Beam wid.	3,1ft	6,3ft	9,3ft	12,4ft	15,5ft	23,3ft	31,1ft	46,6ft	62,2ft	77,7ft	93,2ft	124,3ft	155,4ft

LINEAR DISTRIBUTION DIAGRAM

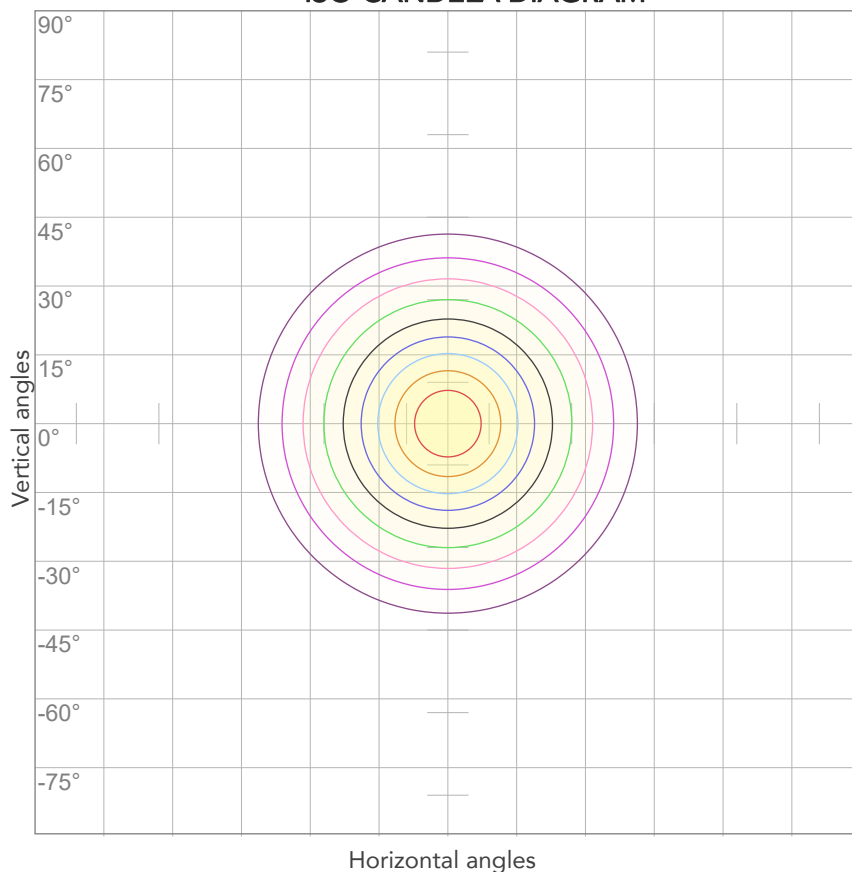


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
223V	5,88A	1267,6W	0,96	39lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



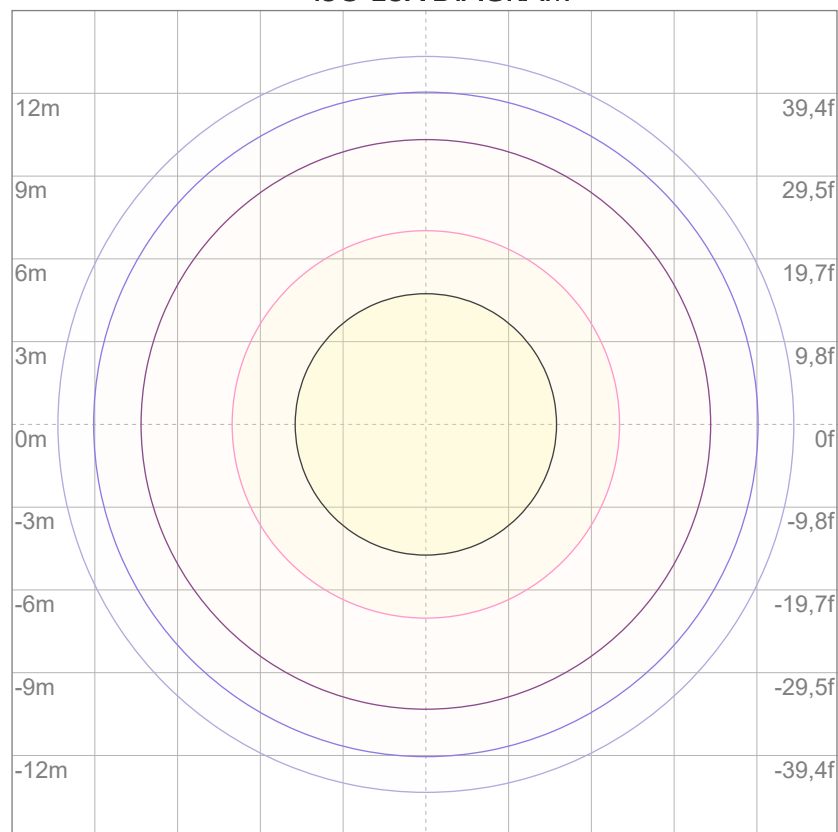
10%	5935 cd
20%	11870 cd
30%	17805 cd
40%	23741 cd
50%	29676 cd
60%	35611 cd
70%	41546 cd
80%	47481 cd

Conditions:

Number of c-planes: 2

Candela at center: 59351 cd

ISO LUX DIAGRAM



3%	17,8 lx
5%	29,7 lx
10%	59,4 lx
30%	178 lx
50%	297 lx

Conditions:

Number of c-planes: 2

Lux at center: 594 lx

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



Total lumen output:

53030 lm

Peak candela output:

62316 cd

Light quality:

CRI: 97,3

Color temperature:

4078 K

PRODUCT NAME:

SUNRISE4FLXVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

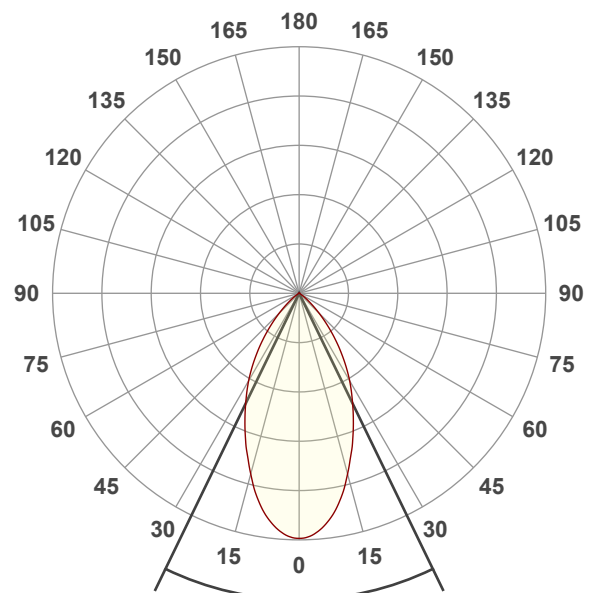
4000K

Operator:

Giuseppe della Peruta

Date and time:

11/09/2025 13:22:44

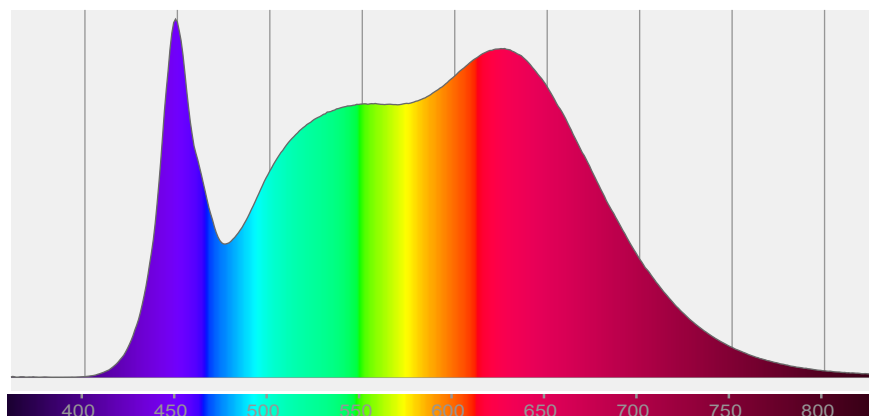


Beam angle 50%: 51,7°

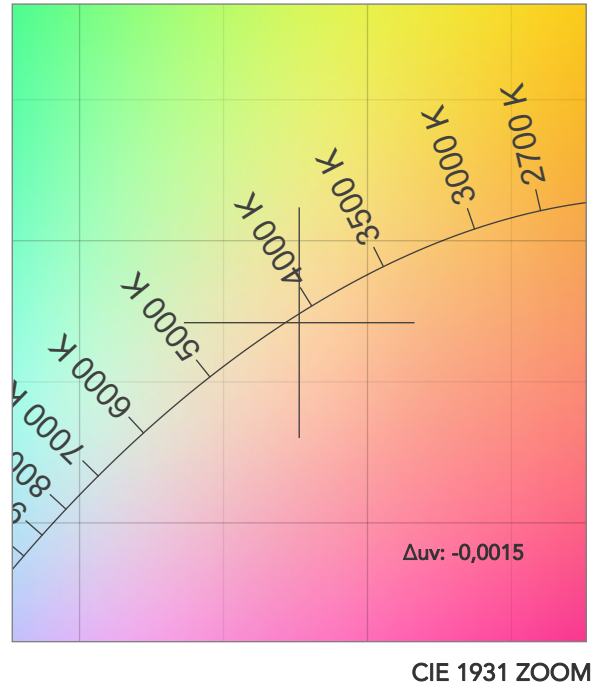
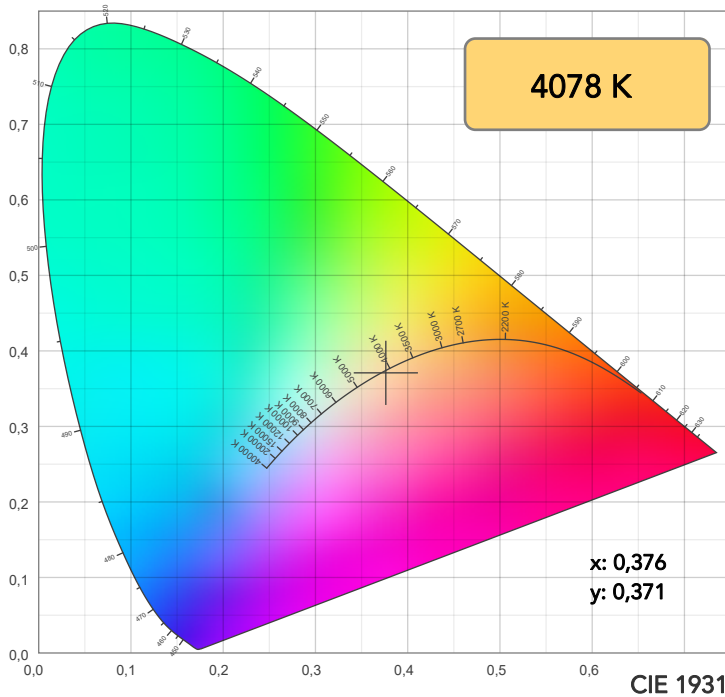
Field angle 10%: 92,1°

Cut off angle 2.5%: 108,5°

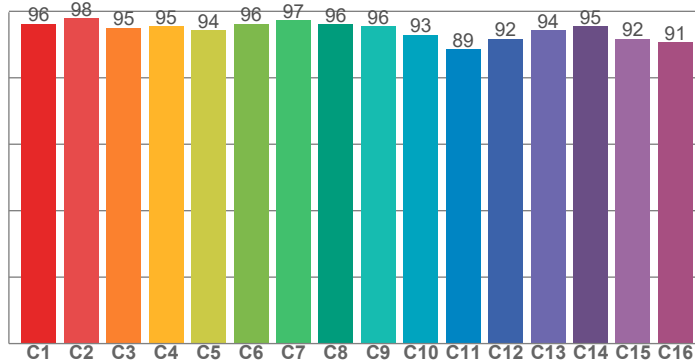
Spectra



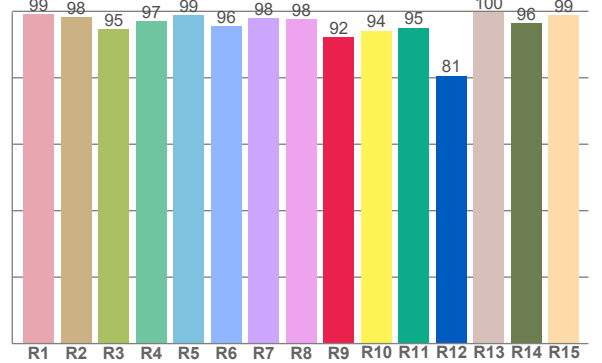
COLOR DETAILS



TM30: 94,2



CRI: 97,3 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99,2	98,1	94,6	97,1	98,8	95,6	97,9	97,5	92,3	94,1	95,1	80,6	99,7	96,4	98,8

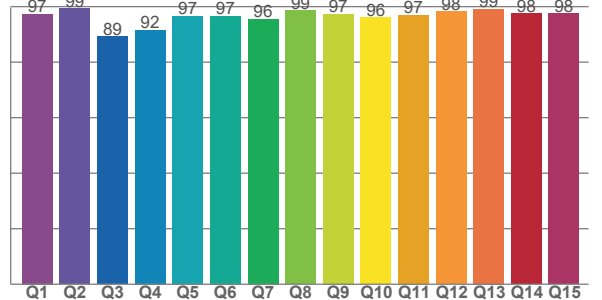
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,3	97,8	95,1	95,4	94,2	96,2	97,3	96,1	95,6	92,9	88,6	91,7	94,4	95,5	91,7	90,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,4	99,3	89,3	91,6	96,6	96,6	95,5	98,6	97,3	96,0	97,0	98,3	99,1	97,5	97,5

CQS: 95,6



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4078 K	97,3	92,3	94,2	101,8	95,6	97	0,376	0,371	-0,0015

TM30 DETAILS

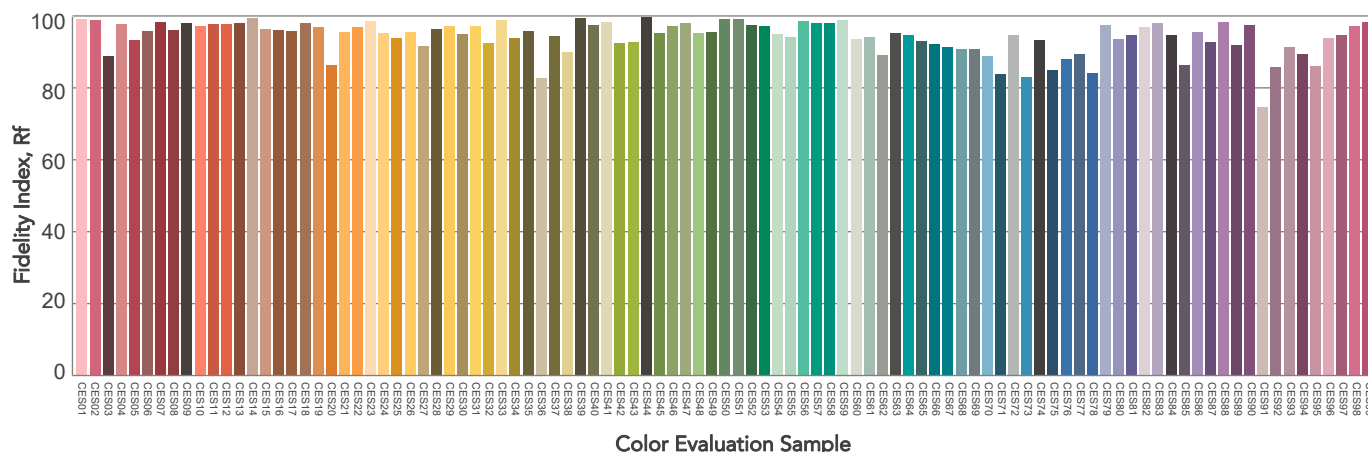
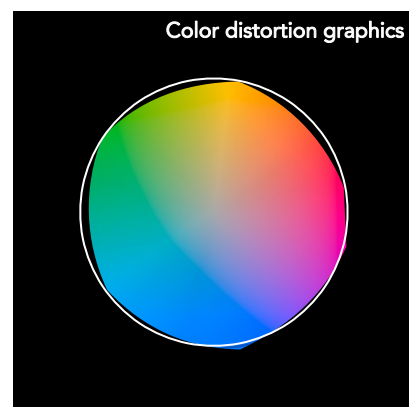
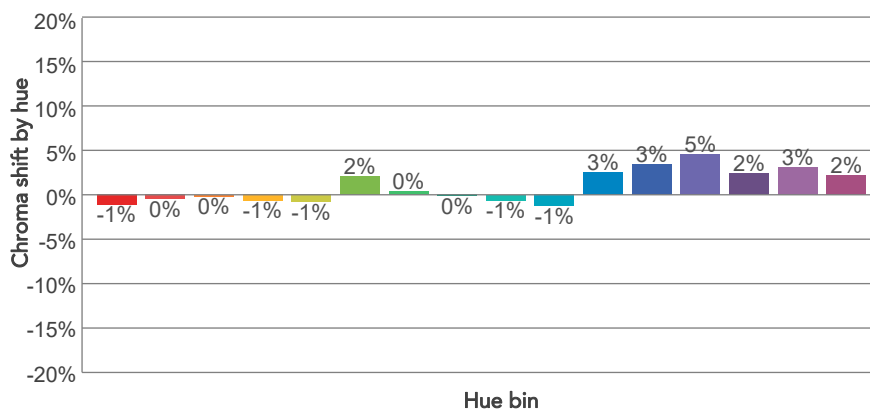
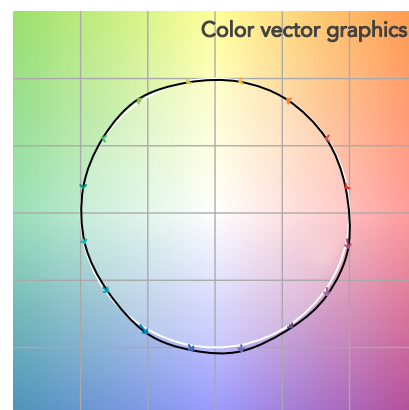
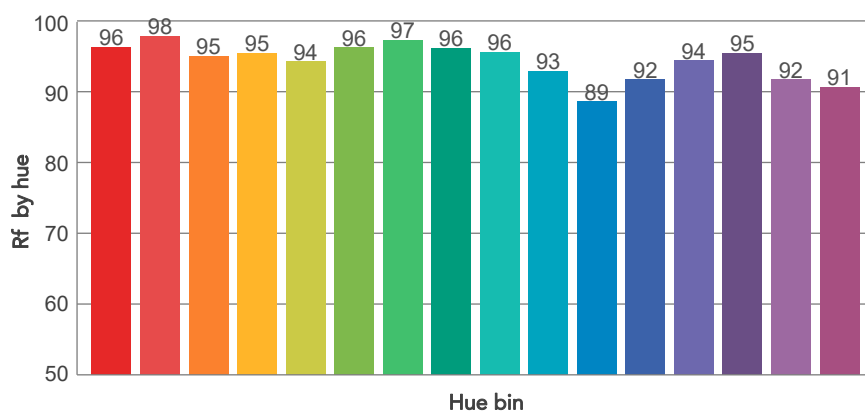
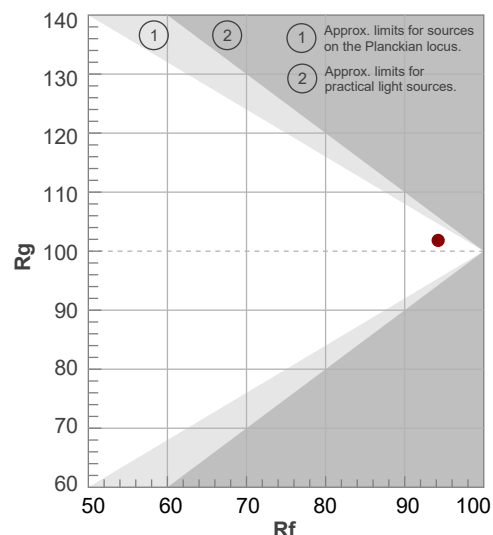
Rf 94,2

Fidelity index Rf

Rg 101,8

Gammut index

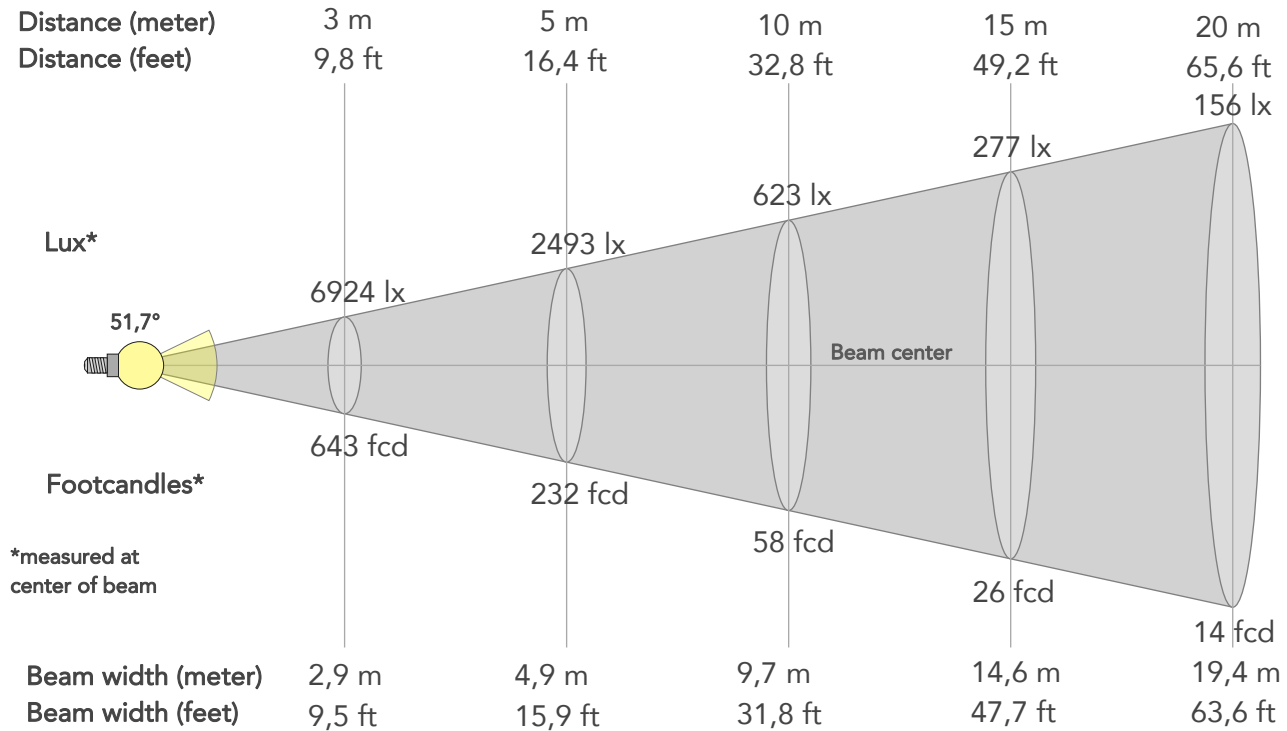
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	-1%	-1%
2	98	0%	0%
3	95	0%	2%
4	95	-1%	1%
5	94	-1%	1%
6	96	2%	1%
7	97	0%	0%
8	96	0%	1%
9	96	-1%	3%
10	93	-1%	4%
11	89	3%	7%
12	92	3%	4%
13	94	5%	-1%
14	95	2%	0%
15	92	3%	-5%
16	91	2%	-6%



BEAM DETAILS



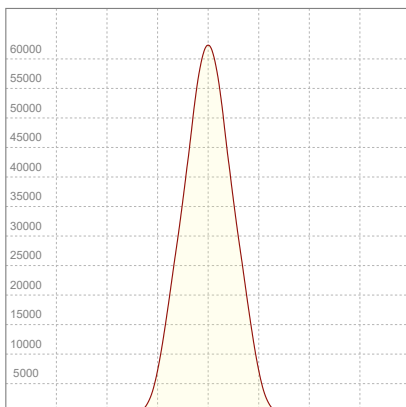
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,7°	92,1°	108,5°	98,9%	92,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	62316lx	15579lx	6924lx	3895lx	2493lx	1108lx	623lx	277lx	156lx	100lx	69lx	39lx	25lx
Footcand.	5789fcd	1447fcd	643fcd	362fcd	232fcd	103fcd	58fcd	26fcd	14fcd	9fcd	6fcd	4fcd	2fcd
Beam wid.	1m	1,9m	2,9m	3,9m	4,9m	7,3m	9,7m	14,6m	19,4m	24,3m	29,1m	38,8m	48,5m
Beam wid.	3,2ft	6,4ft	9,5ft	12,7ft	15,9ft	23,9ft	31,8ft	47,7ft	63,6ft	79,5ft	95,5ft	127,3ft	159,1ft

LINEAR DISTRIBUTION DIAGRAM

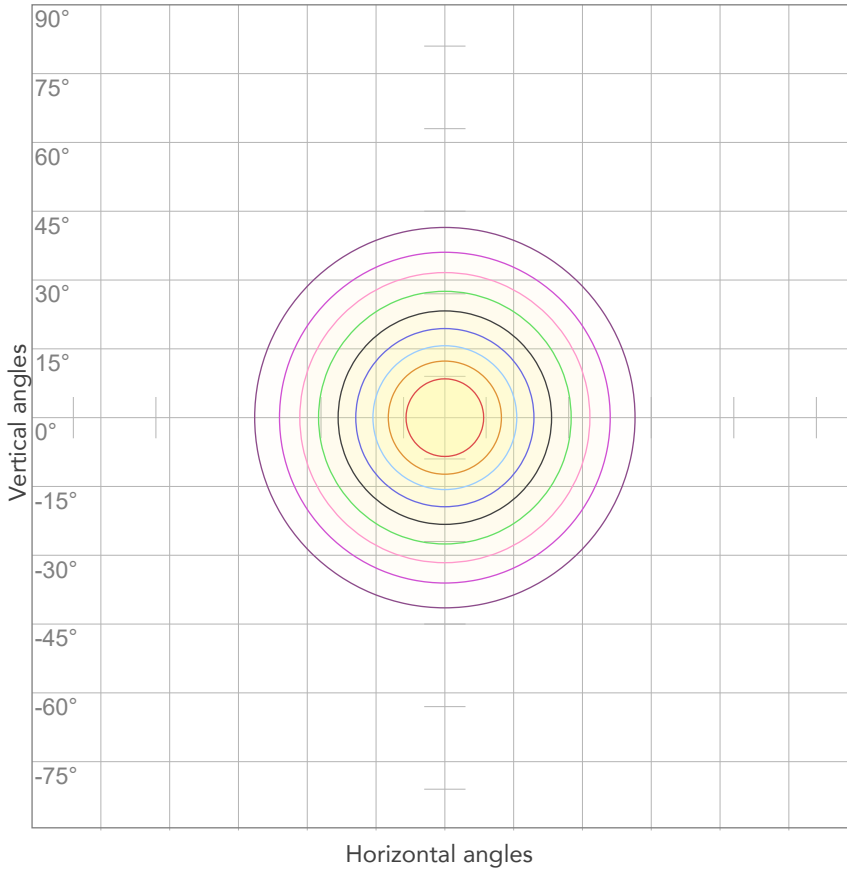


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	5,51A	1188,7W	0,96	45lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



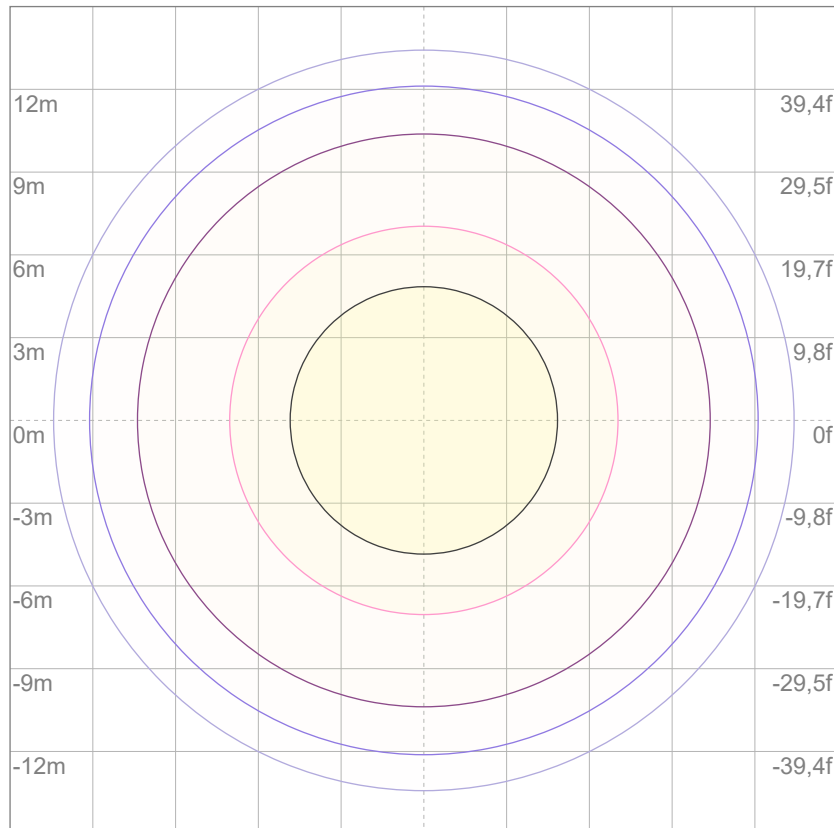
10%	6232 cd
20%	12463 cd
30%	18695 cd
40%	24926 cd
50%	31158 cd
60%	37389 cd
70%	43621 cd
80%	49852 cd

Conditions:

Number of c-planes: 2

Candela at center: 62316 cd

ISO LUX DIAGRAM



3%	18,7 lx
5%	31,2 lx
10%	62,3 lx
30%	187 lx
50%	312 lx

Conditions:

Number of c-planes: 2

Lux at center: 623 lx

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



Total lumen output:

55732 lm

Peak candela output:

64570 cd

Light quality:

CRI: 95,7

Color temperature:

5602 K

PRODUCT NAME:

SUNRISE4FLXVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

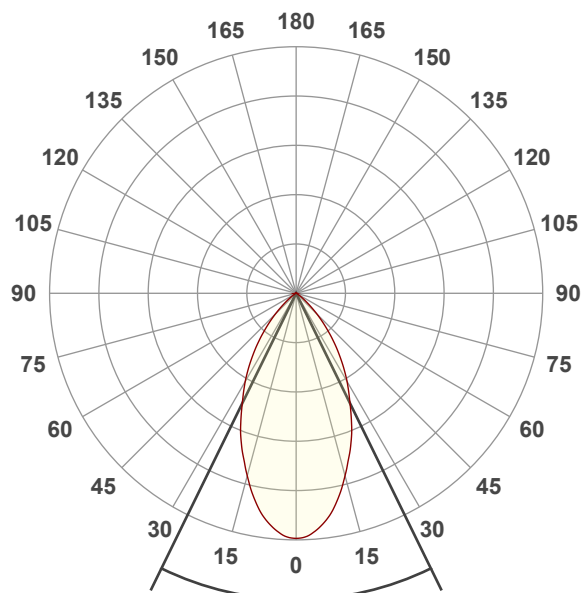
5600K

Operator:

Giuseppe della Peruta

Date and time:

11/09/2025 13:28:09

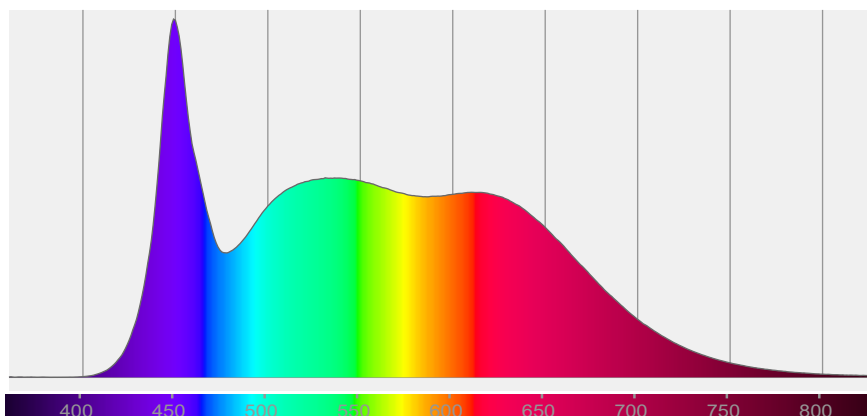


Beam angle 50%: 52,2°

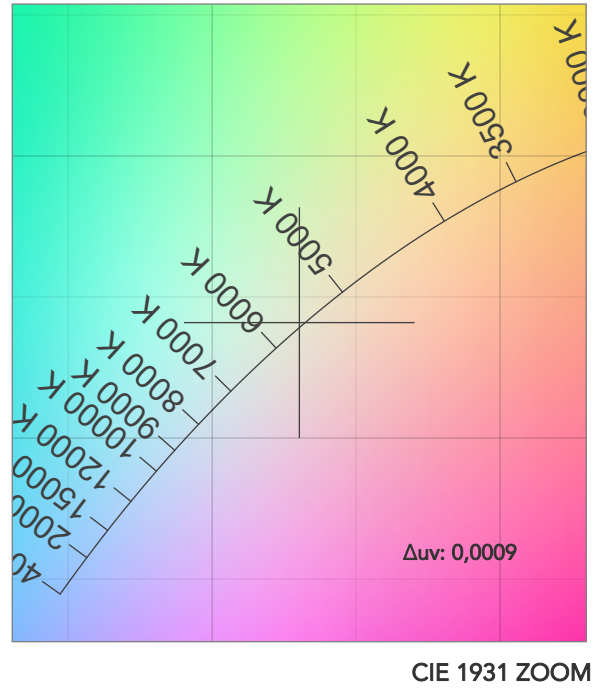
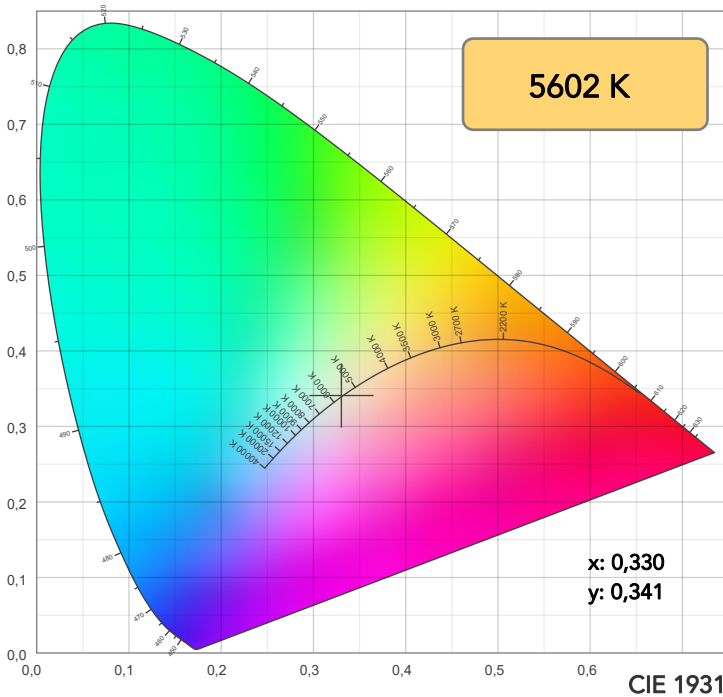
Field angle 10%: 92,8°

Cut off angle 2.5%: 108,6°

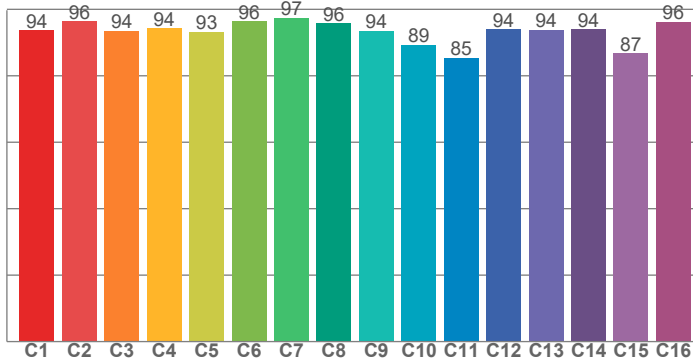
Spectra



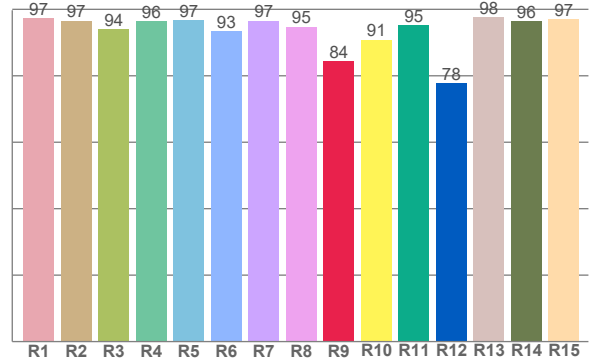
COLOR DETAILS



TM30: 93,1



CRI: 95,7 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,3	96,6	94,0	96,5	96,8	93,3	96,6	94,8	84,3	90,9	95,2	77,8	97,6	96,5	96,9

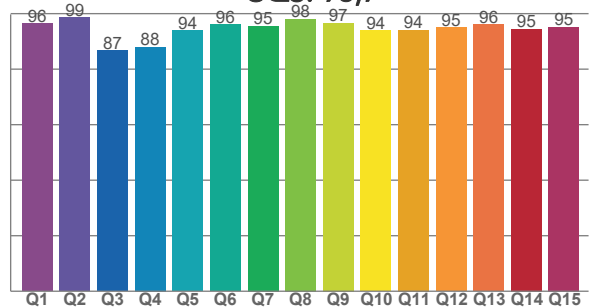
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,7	96,4	93,5	94,2	93,3	96,4	97,4	95,8	93,5	89,3	85,4	93,9	93,9	94,0	86,7	96,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,4	98,5	86,8	88,0	93,8	96,0	95,5	98,1	96,6	93,9	94,0	95,0	96,0	94,5	95,3

CQS: 93,7



COLOR PARAMETERS

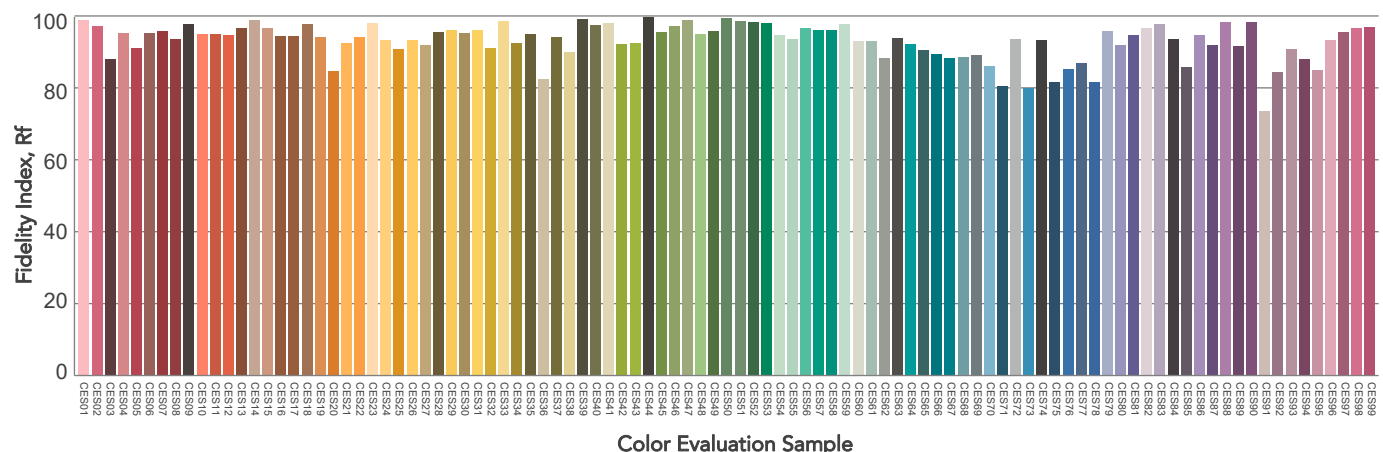
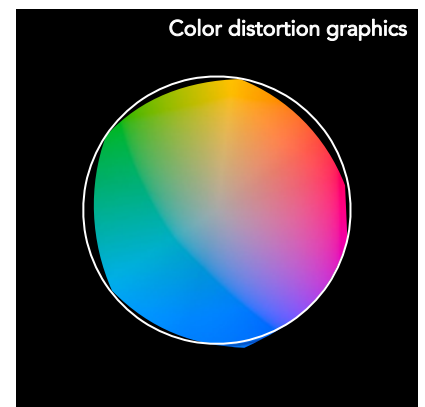
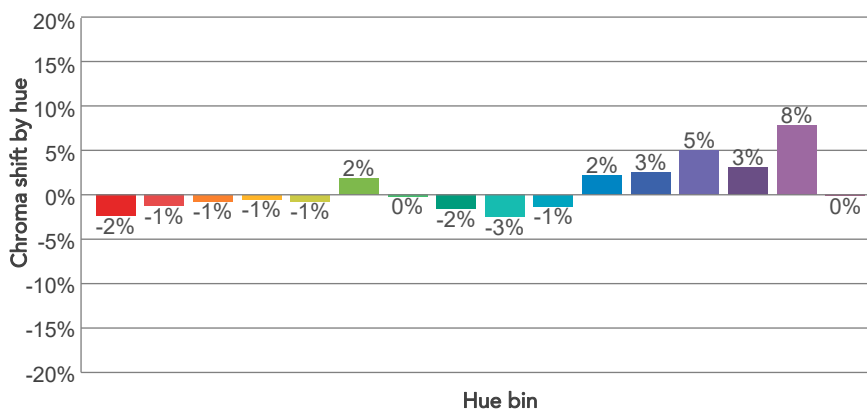
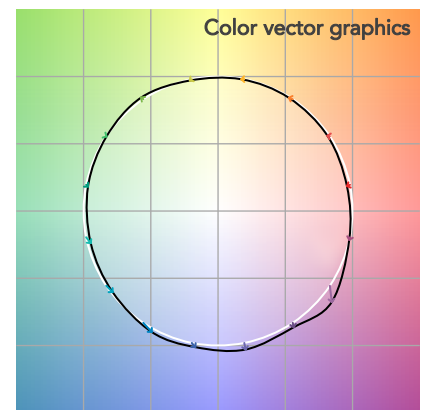
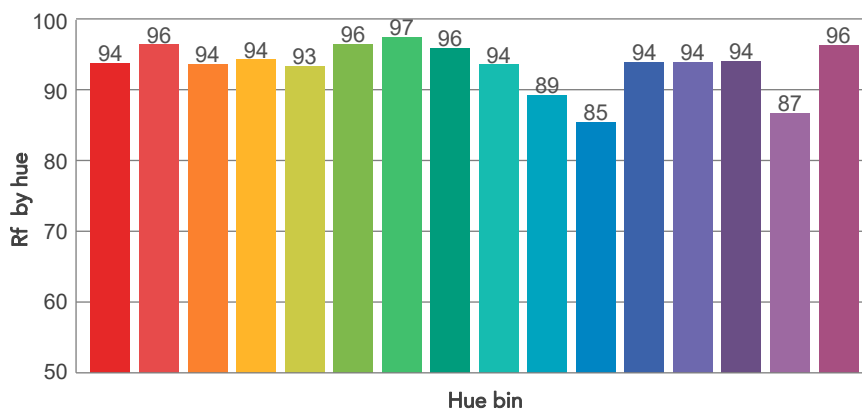
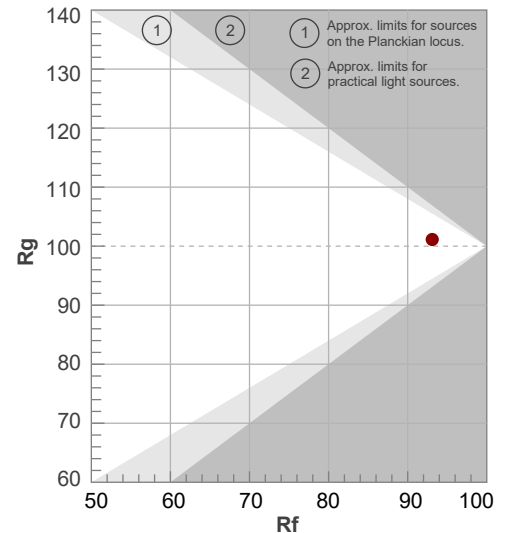
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5602 K	95,7	84,3	93,1	101,1	93,7	98	0,330	0,341	0,0009

TM30 DETAILS

Rf 93,1
Fidelity index Rf

Rg 101,1
Gammut index

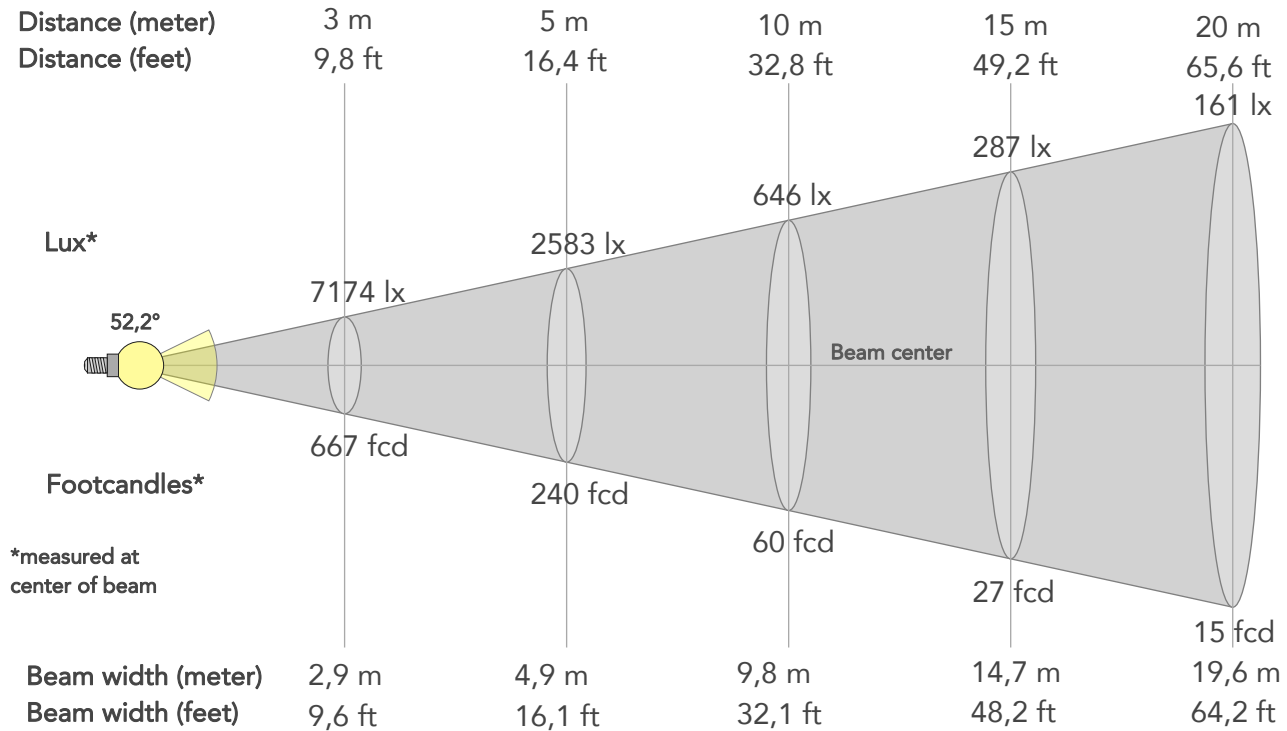
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-2%	-1%
2	96	-1%	1%
3	94	-1%	3%
4	94	-1%	2%
5	93	-1%	2%
6	96	2%	1%
7	97	0%	0%
8	96	-2%	1%
9	94	-3%	5%
10	89	-1%	7%
11	85	2%	9%
12	94	3%	3%
13	94	5%	0%
14	94	3%	-1%
15	87	8%	-9%
16	96	0%	-2%



BEAM DETAILS



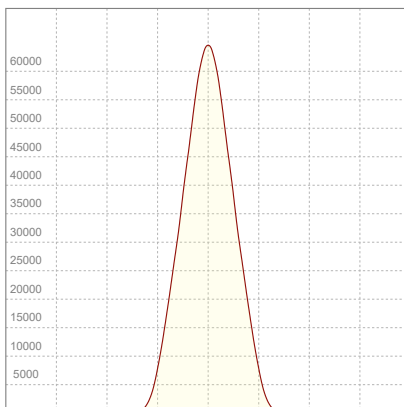
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,2°	92,8°	108,6°	99,0%	92,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	64570lx	16143lx	7174lx	4036lx	2583lx	1148lx	646lx	287lx	161lx	103lx	72lx	40lx	26lx
Footcand.	5999fcd	1500fcd	667fcd	375fcd	240fcd	107fcd	60fcd	27fcd	15fcd	10fcd	7fcd	4fcd	2fcd
Beam wid.	1m	2m	2,9m	3,9m	4,9m	7,3m	9,8m	14,7m	19,6m	24,5m	29,4m	39,2m	49m
Beam wid.	3,2ft	6,5ft	9,6ft	12,8ft	16,1ft	24,1ft	32,1ft	48,2ft	64,2ft	80,3ft	96,4ft	128,5ft	160,6ft

LINEAR DISTRIBUTION DIAGRAM

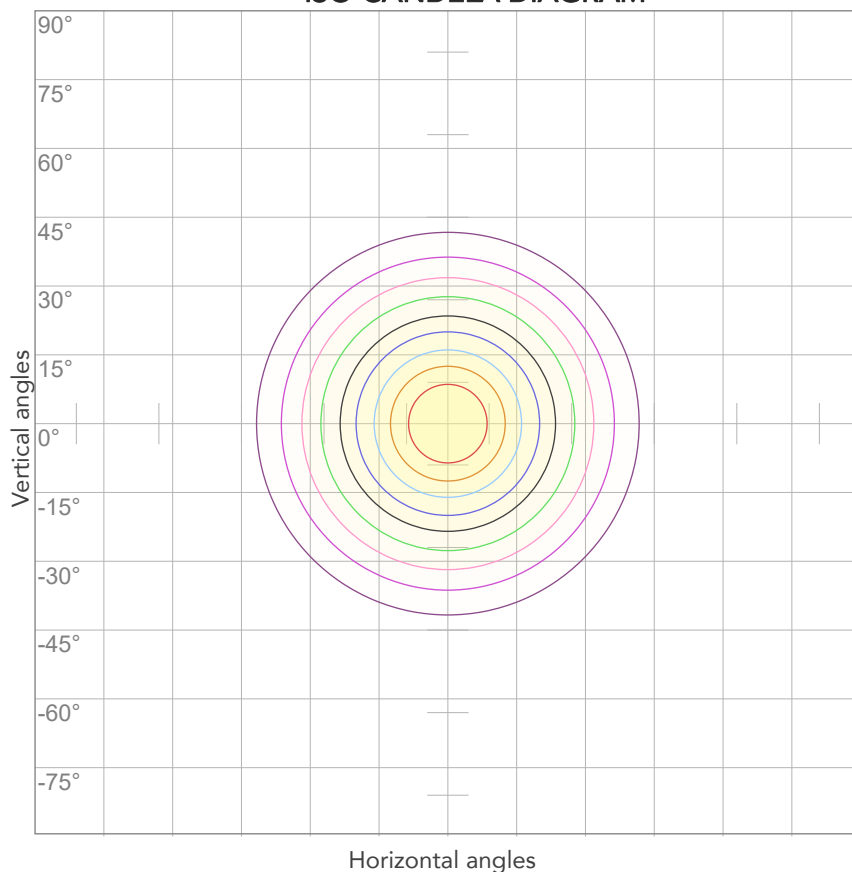


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
223V	5,72A	1230,2W	0,97	45lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



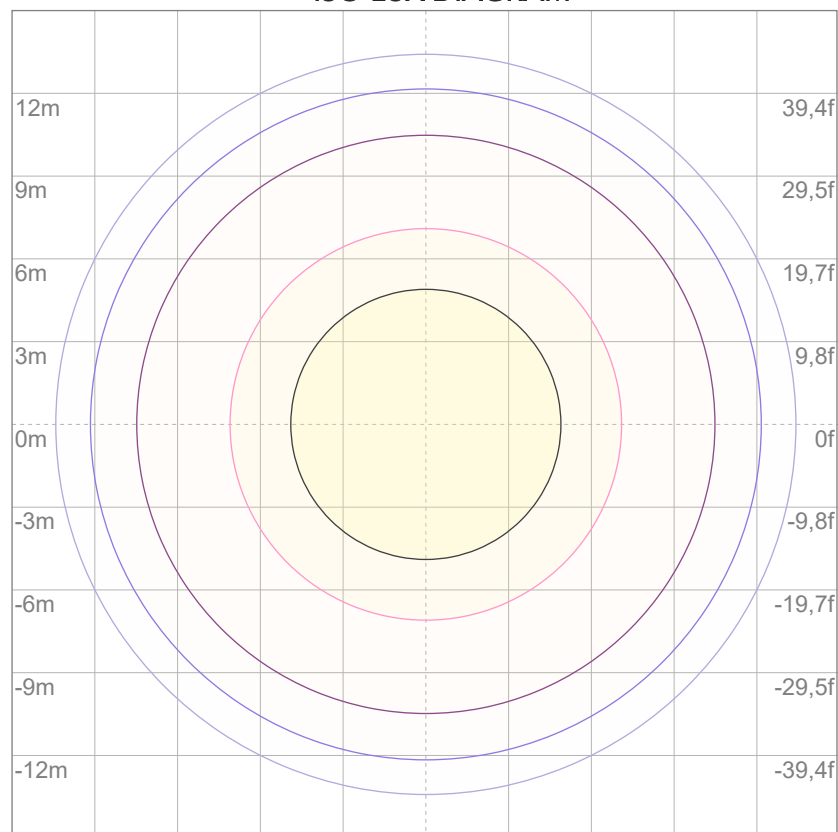
10%	6457 cd
20%	12914 cd
30%	19371 cd
40%	25828 cd
50%	32285 cd
60%	38742 cd
70%	45199 cd
80%	51656 cd

Conditions:

Number of c-planes: 2

Candela at center: 64570 cd

ISO LUX DIAGRAM



3%	19,4 lx
5%	32,3 lx
10%	64,6 lx
30%	194 lx
50%	323 lx

Conditions:

Number of c-planes: 2

Lux at center: 646 lx

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



Total lumen output:

60965 lm

Peak candela output:

71858 cd

Light quality:

CRI: 95,3

Color temperature:

6021 K

PRODUCT NAME:

SUNRISE4FLXVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

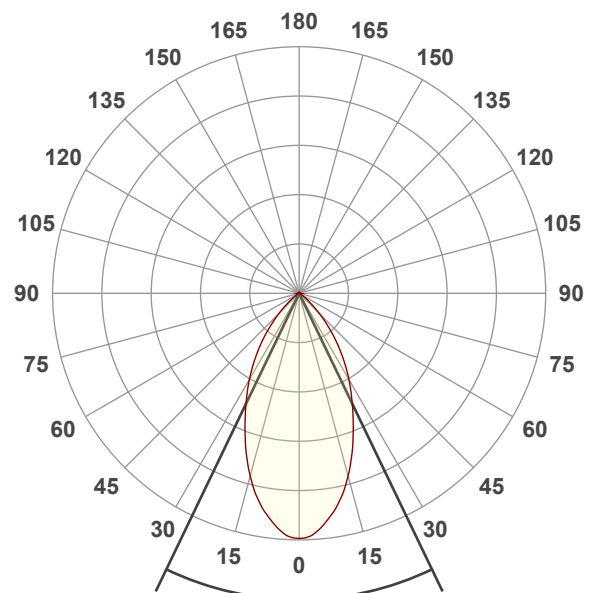
6000K

Operator:

Giuseppe della Peruta

Date and time:

11/09/2025 13:31:46

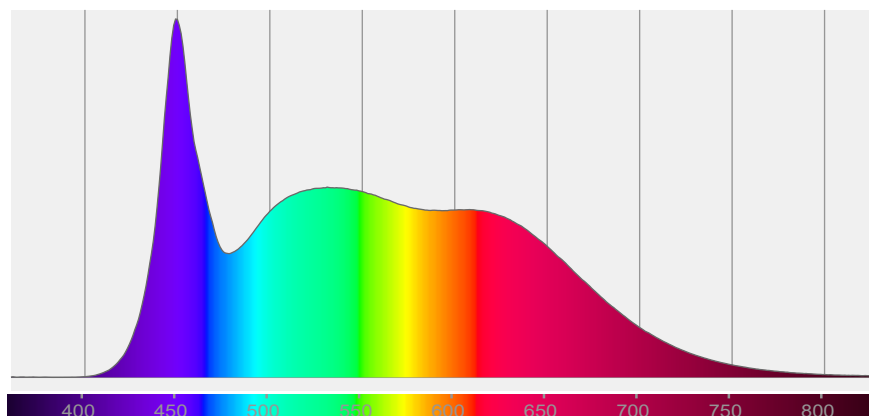


Beam angle 50%: 51,4°

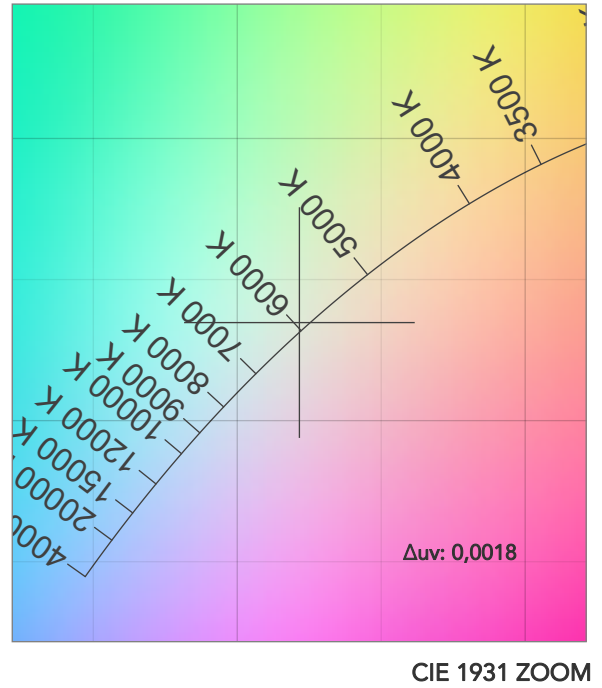
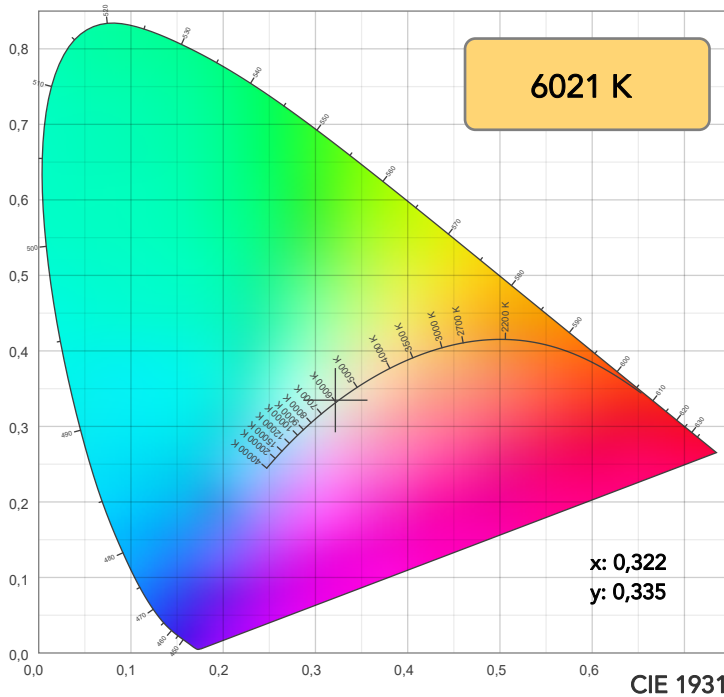
Field angle 10%: 92,2°

Cut off angle 2.5%: 108,3°

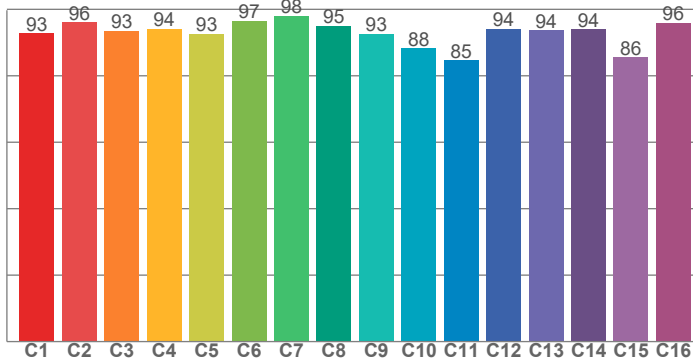
Spectra



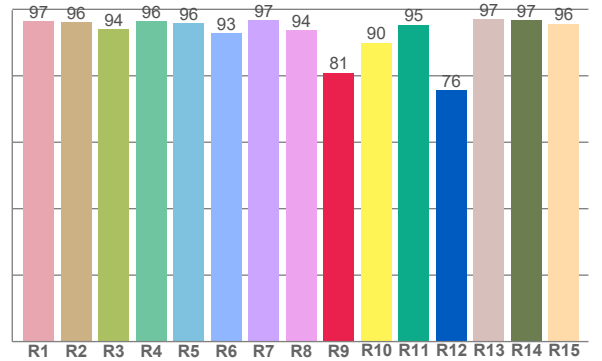
COLOR DETAILS



TM30: 92,7



CRI: 95,3 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,5	96,2	94,1	96,4	95,8	92,7	96,7	93,8	80,9	90,0	95,4	75,7	96,9	96,6	95,7

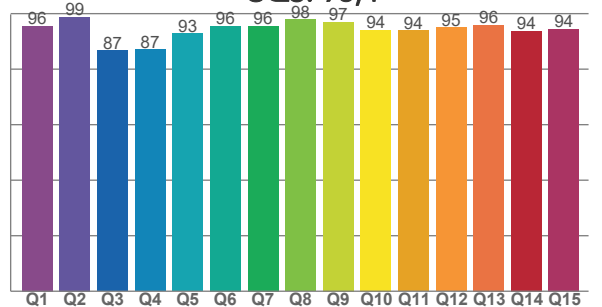
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,9	96,1	93,5	94,2	92,6	96,6	98,0	95,0	92,7	88,2	84,7	94,1	93,6	93,9	85,6	95,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,5	98,8	86,7	87,1	92,9	95,5	95,5	97,8	96,9	94,1	94,0	94,9	95,9	93,7	94,5

CQS: 93,4



COLOR PARAMETERS

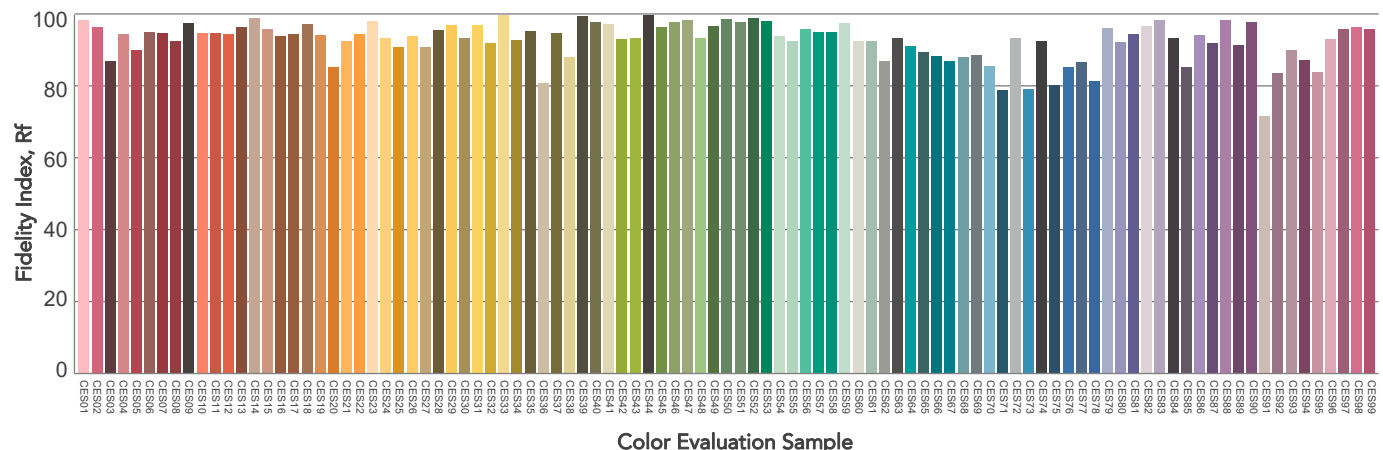
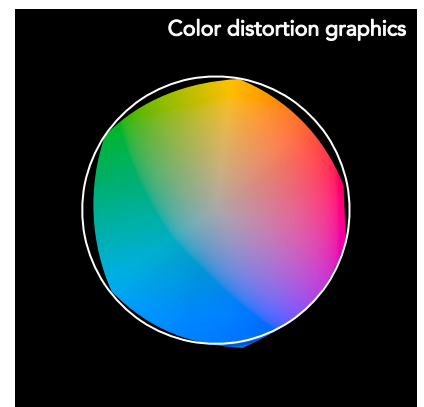
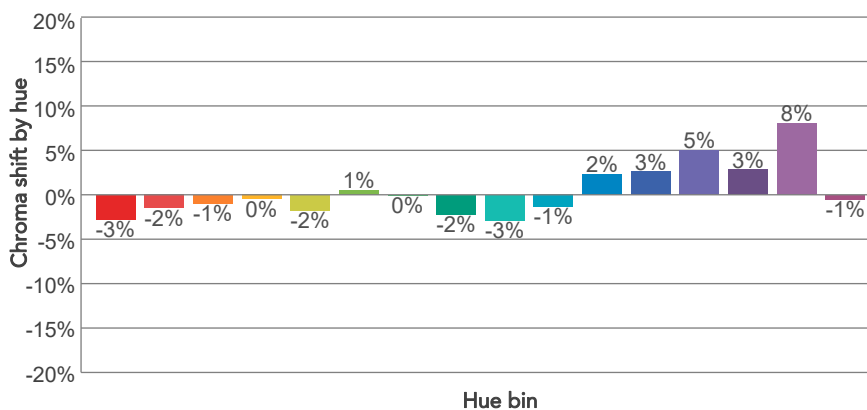
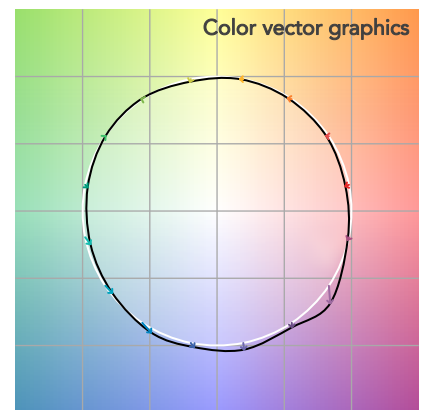
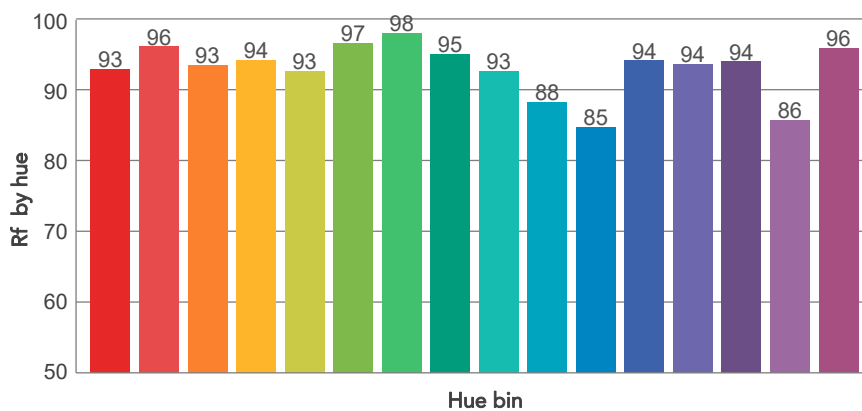
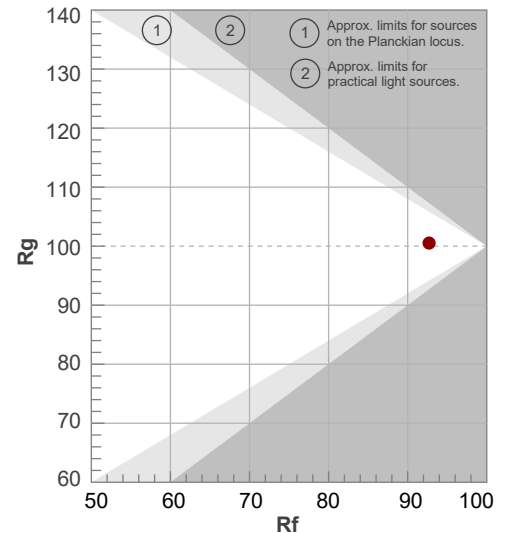
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6021 K	95,3	80,9	92,7	100,5	93,4	98	0,322	0,335	0,0018

TM30 DETAILS

Rf 92,7
Fidelity index Rf

Rg 100,5
Gammut index

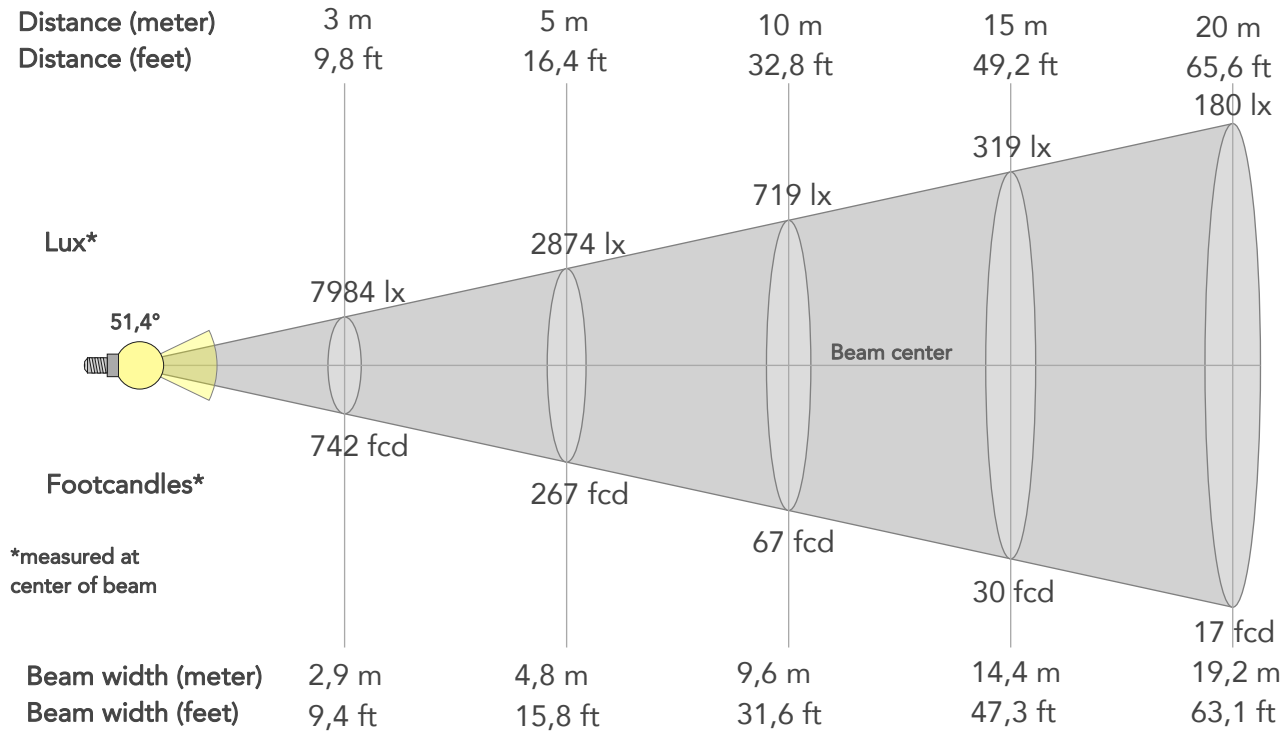
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	96	-2%	1%
3	93	-1%	3%
4	94	0%	2%
5	93	-2%	1%
6	97	1%	0%
7	98	0%	0%
8	95	-2%	1%
9	93	-3%	6%
10	88	-1%	7%
11	85	2%	9%
12	94	3%	3%
13	94	5%	0%
14	94	3%	-2%
15	86	8%	-10%
16	96	-1%	-2%



BEAM DETAILS



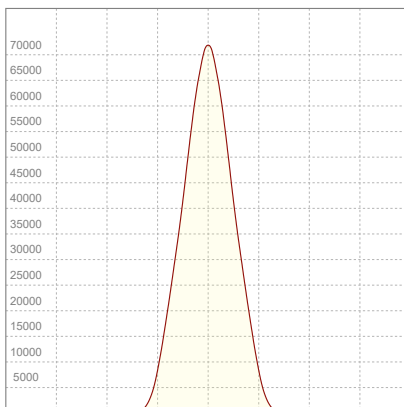
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,4°	92,2°	108,3°	99,0%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	71858lx	17965lx	7984lx	4491lx	2874lx	1277lx	719lx	319lx	180lx	115lx	80lx	45lx	29lx
Footcand.	6676fcd	1669fcd	742fcd	417fcd	267fcd	119fcd	67fcd	30fcd	17fcd	11fcd	7fcd	4fcd	3fcd
Beam wid.	1m	1,9m	2,9m	3,8m	4,8m	7,2m	9,6m	14,4m	19,2m	24,1m	28,9m	38,5m	48,1m
Beam wid.	3,2ft	6,4ft	9,4ft	12,6ft	15,8ft	23,7ft	31,6ft	47,3ft	63,1ft	78,9ft	94,7ft	126,2ft	157,8ft

LINEAR DISTRIBUTION DIAGRAM

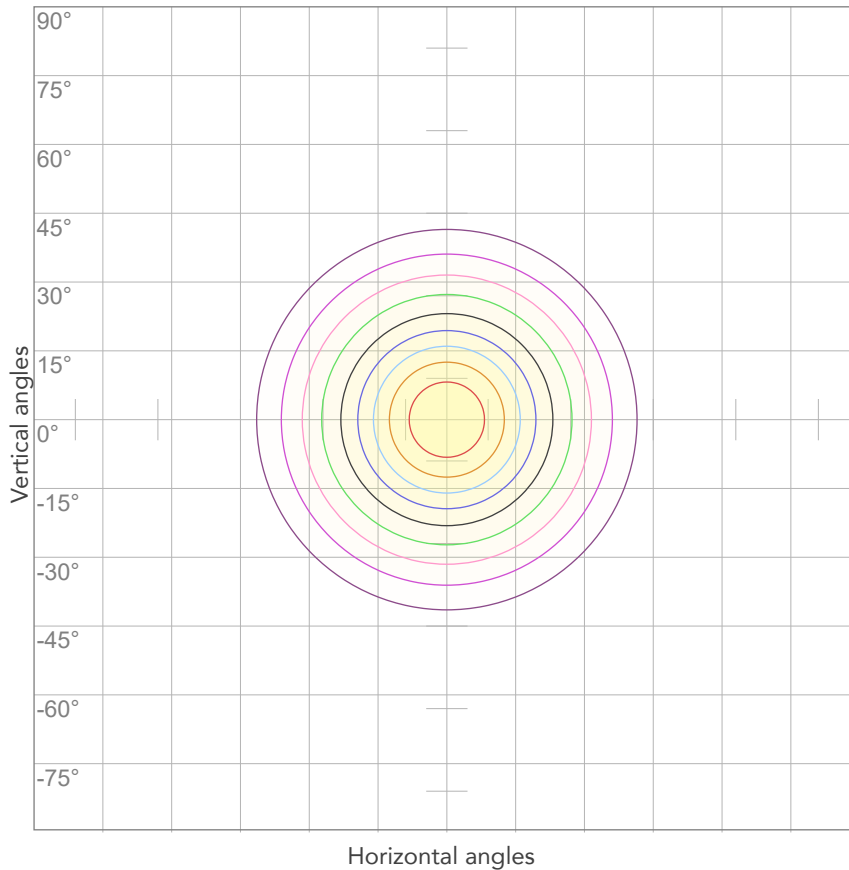


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
223V	5,86A	1264W	0,97	48lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



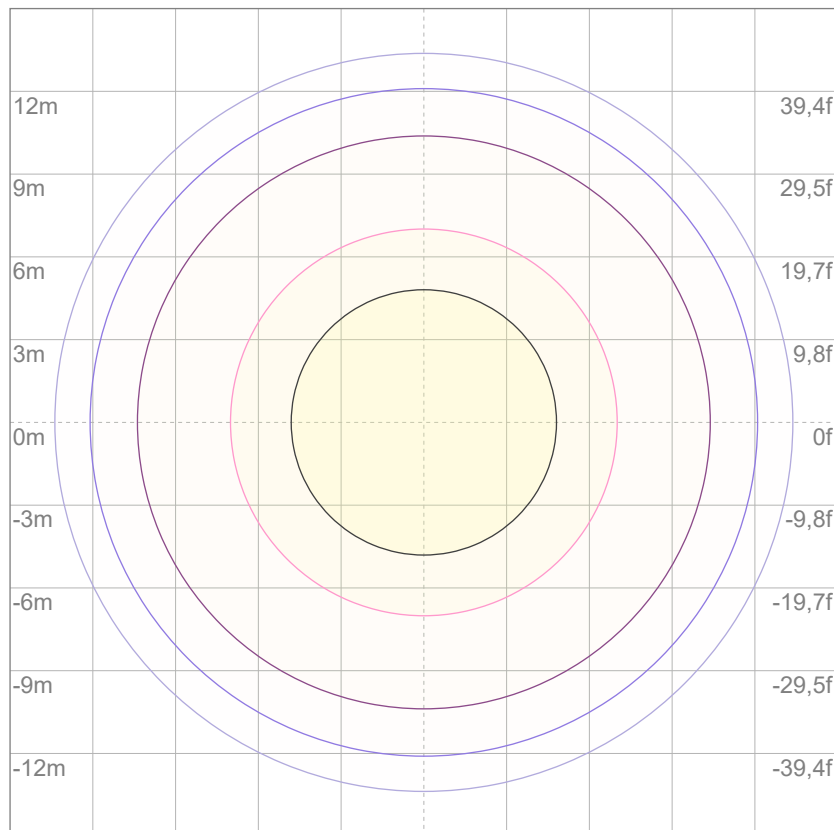
10%	7186 cd
20%	14372 cd
30%	21558 cd
40%	28743 cd
50%	35929 cd
60%	43115 cd
70%	50301 cd
80%	57487 cd

Conditions:

Number of c-planes: 2

Candela at center: 71858 cd

ISO LUX DIAGRAM



3%	21,6 lx
5%	35,9 lx
10%	71,9 lx
30%	216 lx
50%	359 lx

Conditions:

Number of c-planes: 2

Lux at center: 719 lx

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