



# Photometric Test Report



## **ArcSpot XSVW**

IP66 Spot featuring 800 lumen with  
3 x 4W Variable White source,  
15° Degree Lens

## CONTENTS

Table of contents	2
Testing process	3
Color preset:	
Full On	4
Warm White	9
Cold White	14
2700K	19
2800K	24
3200K	29
4000K	34
5600K	39
6000K	44
6500K	49
7000K	54

## 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:

771 lm

Peak candela output:

8275 cd

Light quality:

CRI: 95,9

Color temperature:

4458 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

15°

Target:

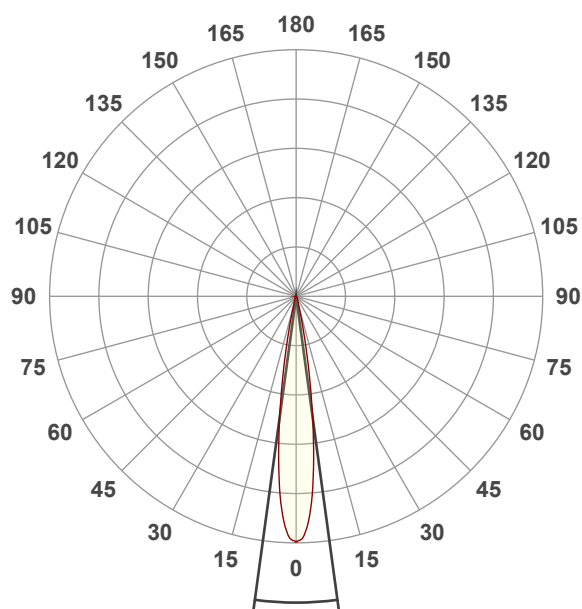
Full On

Operator:

Salvatore Giglio

Date and time:

15/05/2024 10:56:31

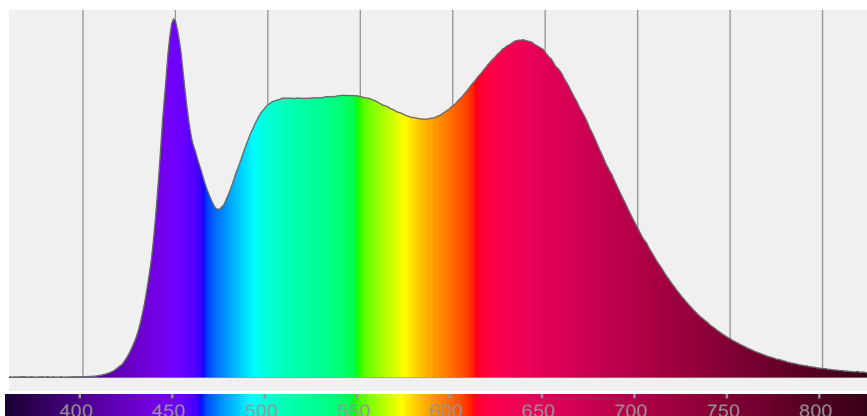


Beam angle 50%: 15,5°

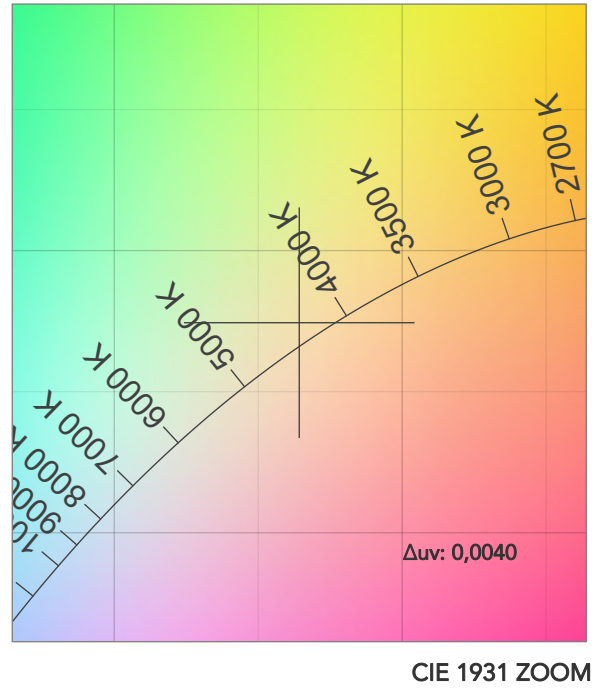
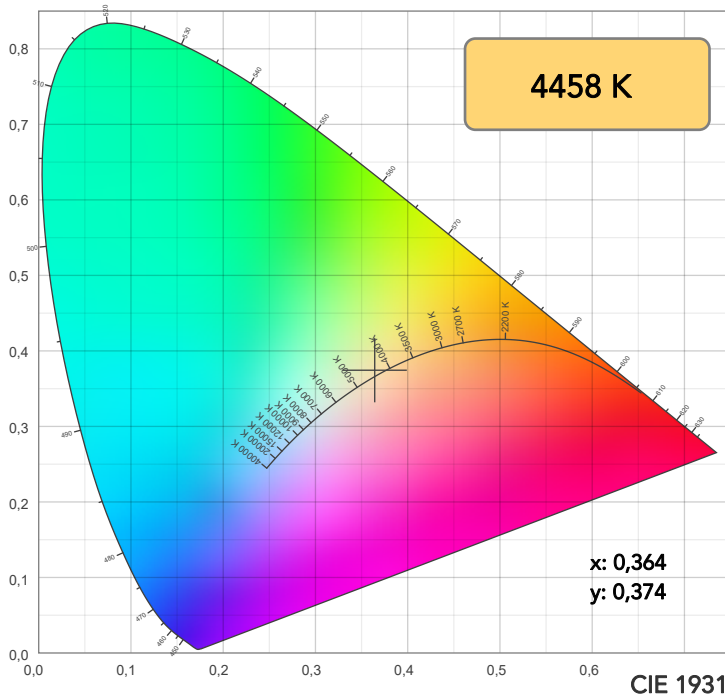
Field angle 10%: 26,1°

Cut off angle 2.5%: 36,8°

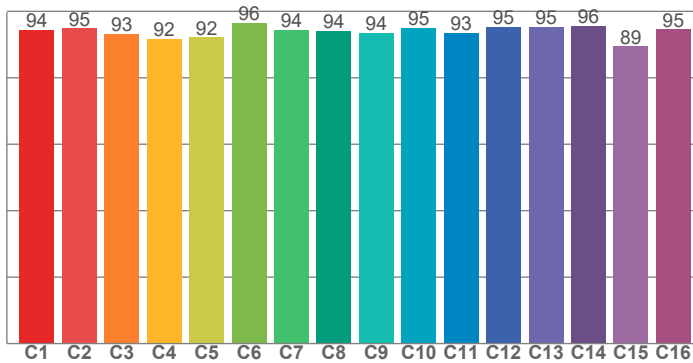
**Spectra**



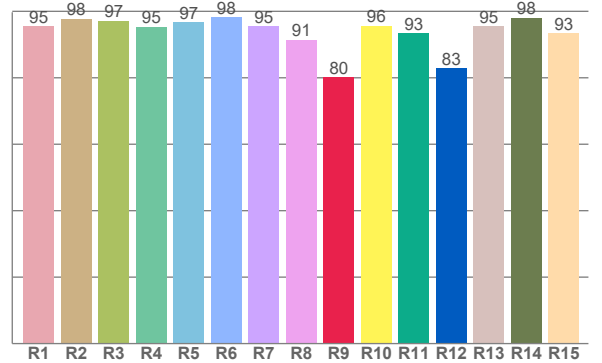
## COLOR DETAILS



TM30: 93,8



CRI: 95,9 (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
95,4	97,8	97,2	95,3	96,7	98,3	95,5	91,4	80,1	95,6	93,5	82,9	95,5	98,0	93,4

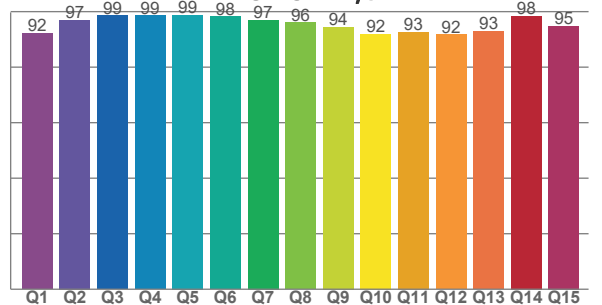
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,5	94,9	93,2	91,7	92,1	96,4	94,4	94,0	93,6	95,1	93,5	95,3	95,4	95,6	89,4	94,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,2	96,9	98,5	98,6	98,7	98,2	96,9	96,1	94,5	91,9	92,6	91,8	92,9	98,4	94,8

CQS: 94,8



## 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	$\Delta uv$
4458 K	95,9	80,1	93,8	100,8	94,8	99	0,364	0,374	0,0040

## TM30 DETAILS

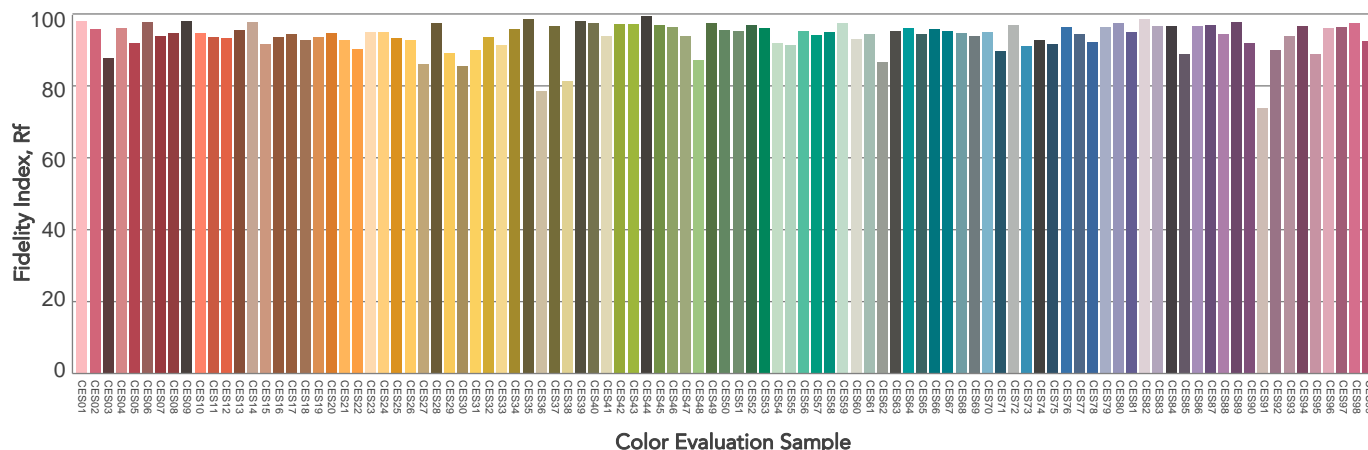
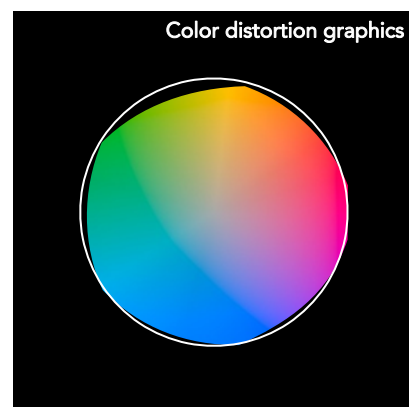
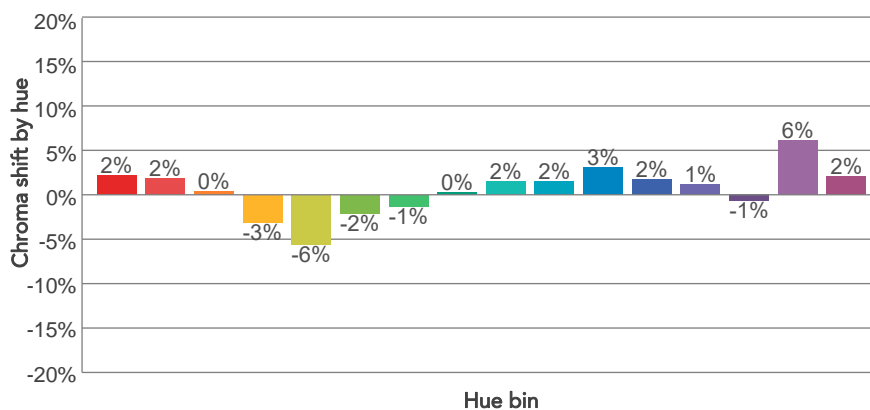
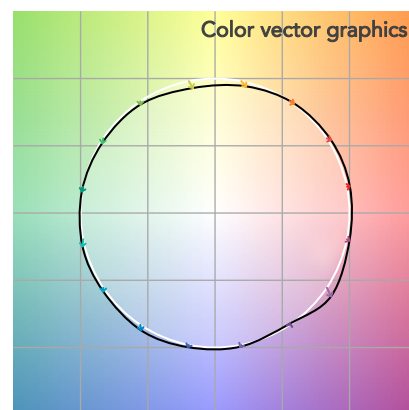
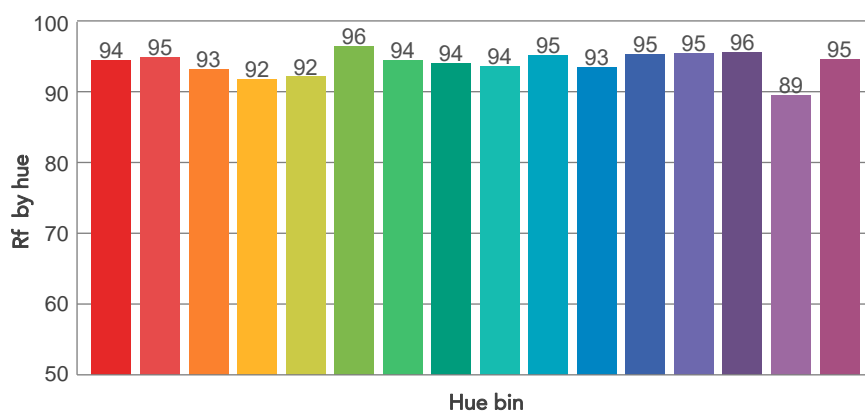
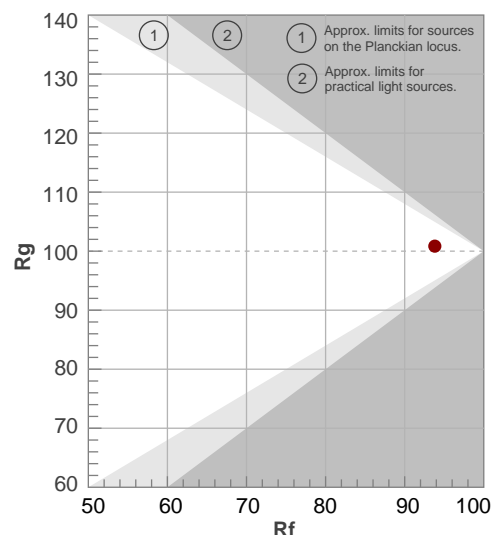
**Rf 93,8**

Fidelity index Rf

**Rg 100,8**

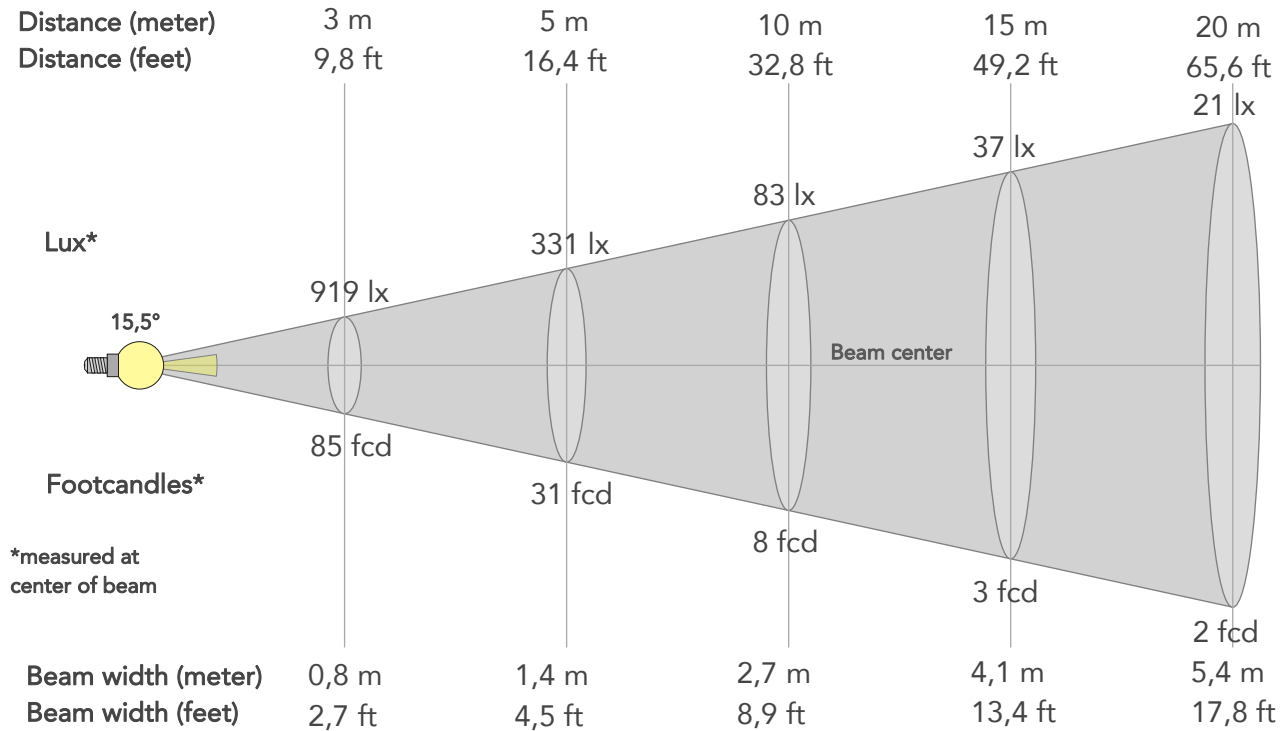
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	2%	0%
2	95	2%	-3%
3	93	0%	-4%
4	92	-3%	-4%
5	92	-6%	-2%
6	96	-2%	1%
7	94	-1%	3%
8	94	0%	4%
9	94	2%	5%
10	95	2%	2%
11	93	3%	3%
12	95	2%	0%
13	95	1%	-1%
14	96	-1%	1%
15	89	6%	-4%
16	95	2%	-1%



# BEAM DETAILS

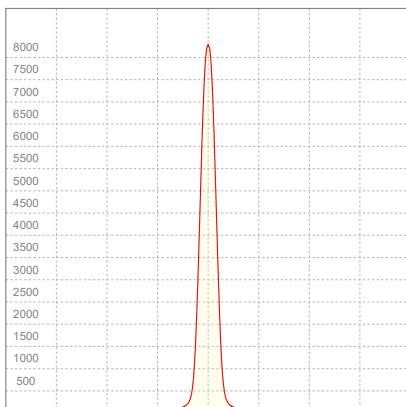
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,5°	26,1°	36,8°	97,3%	94,7%



## 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	8275lx	2069lx	919lx	517lx	331lx	147lx	83lx	37lx	21lx	13lx	9lx	5lx	3lx
Footcand.	769fcd	192fcd	85fcd	48fcd	31fcd	14fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,2m	10,9m	13,6m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	8,9ft	13,4ft	17,8ft	22,3ft	26,8ft	35,7ft	44,6ft

## LINEAR DISTRIBUTION DIAGRAM

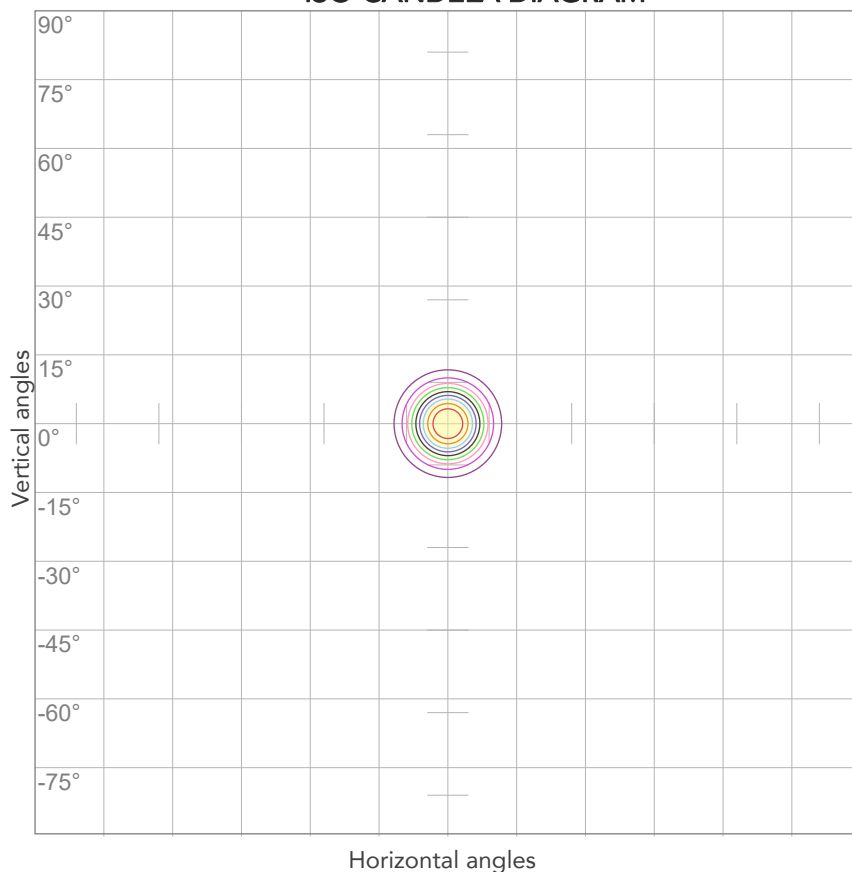


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,138A	16,9W	0,54	46lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



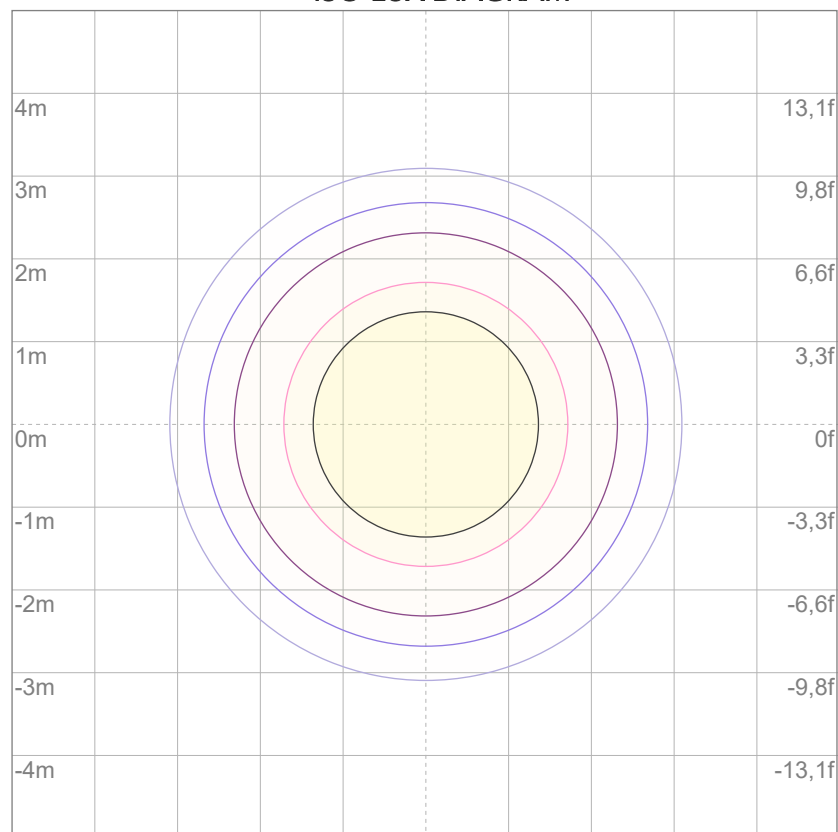
10%	827 cd
20%	1655 cd
30%	2482 cd
40%	3310 cd
50%	4137 cd
60%	4965 cd
70%	5792 cd
80%	6620 cd

### Conditions:

Number of c-planes: 2

Candela at center: 8275 cd

## ISO LUX DIAGRAM



3%	2,48 lx
5%	4,14 lx
10%	8,27 lx
30%	24,8 lx
50%	41,4 lx

### Conditions:

Number of c-planes: 2

Lux at center: 82,7 lx

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





Total lumen output:

477 lm

Peak candela output:

5132 cd

Light quality:

CRI: 96,9

Color temperature:

2638 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

15°

Target:

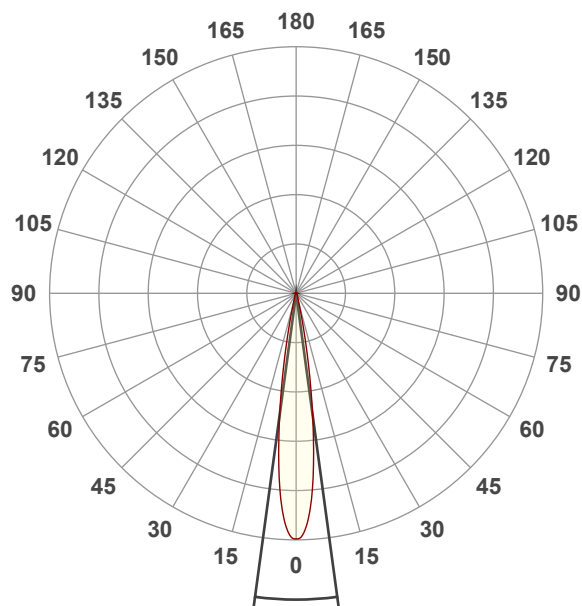
Warm White

Operator:

Salvatore Giglio

Date and time:

15/05/2024 10:59:21

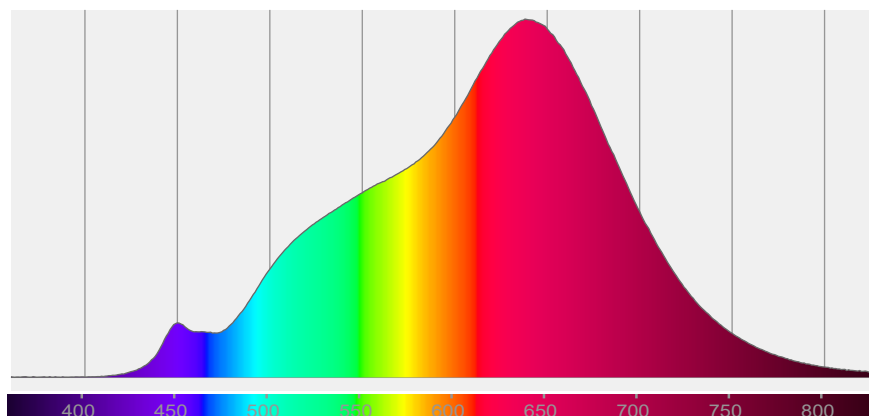


Beam angle 50%: 15,4°

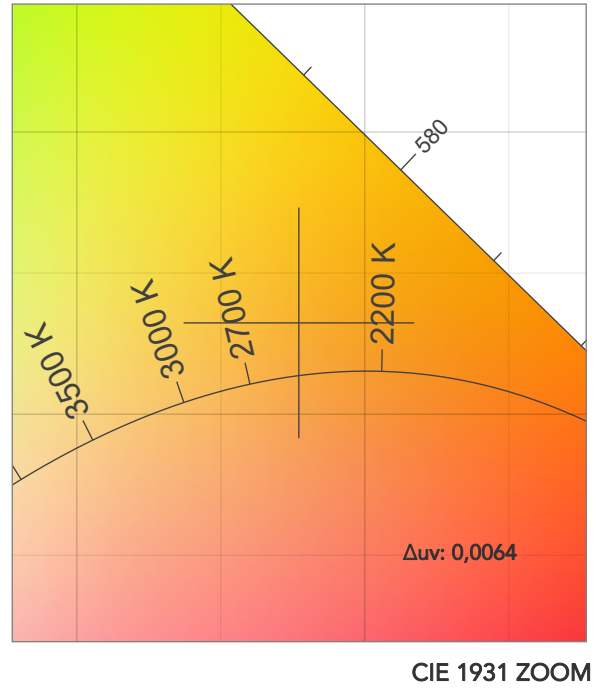
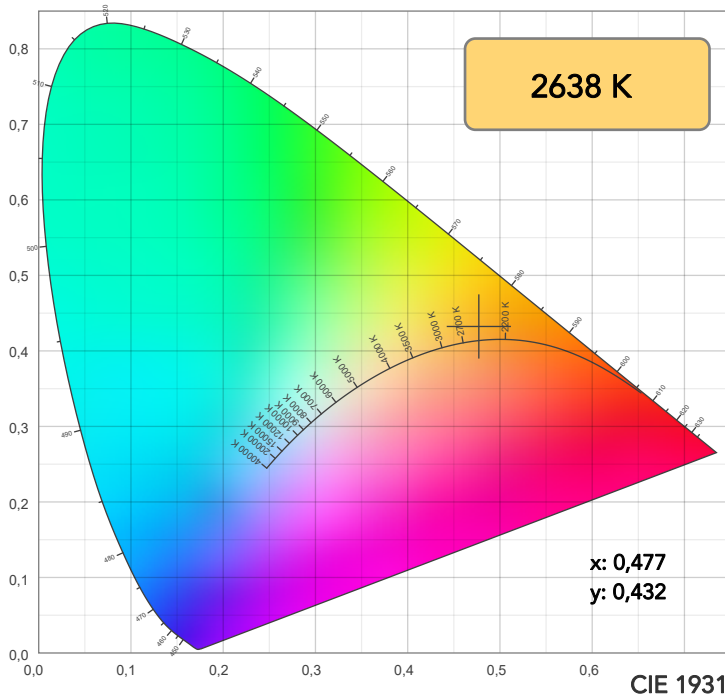
Field angle 10%: 25,9°

Cut off angle 2.5%: 37°

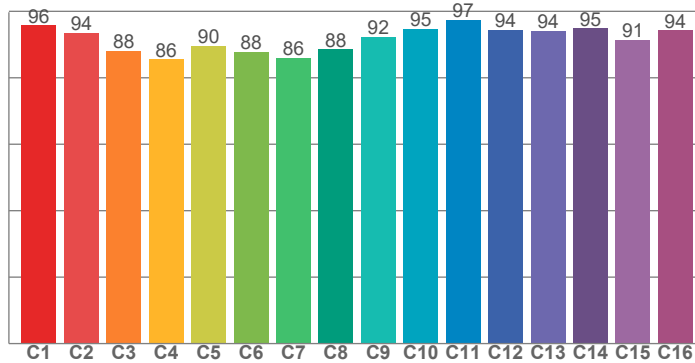
**Spectra**



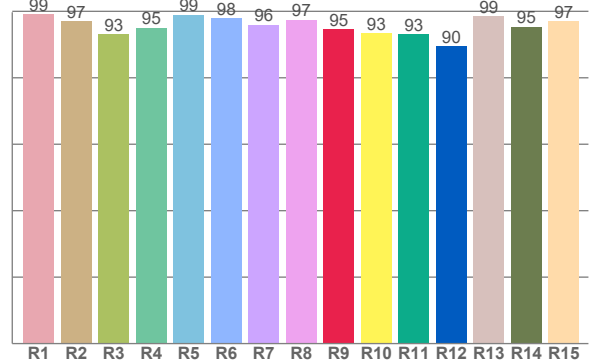
## COLOR DETAILS



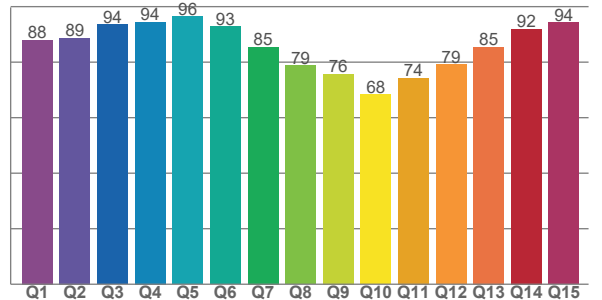
TM30: 91,9



CRI: 96,9 (R1-R8)



CQS: 83,1



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	97,1	93,2	95,0	99,0	98,0	96,0	97,4	94,6	93,3	93,1	89,6	98,5	95,3	97,0

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
95,8	93,6	88,1	85,6	89,7	87,8	86,1	88,5	92,3	94,7	97,4	94,4	94,1	94,9	91,3	94,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88,0	88,6	93,5	94,4	96,5	92,9	85,5	78,7	75,7	68,3	74,2	79,2	85,5	92,0	94,3

## 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
2638 K	96,9	94,6	91,9	94,7	83,1	95	0,477	0,432	0,0064

## TM30 DETAILS

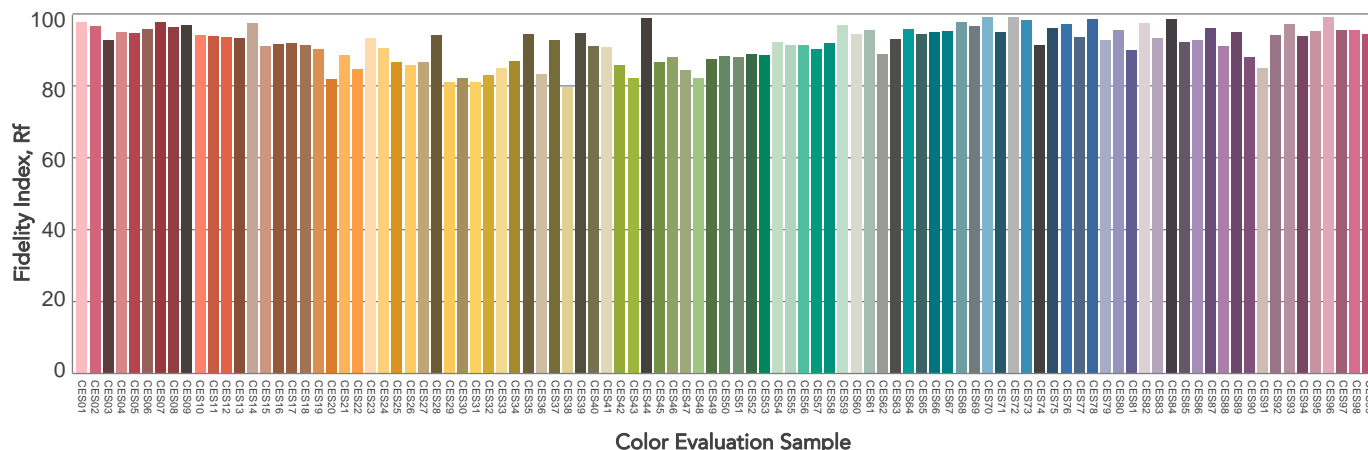
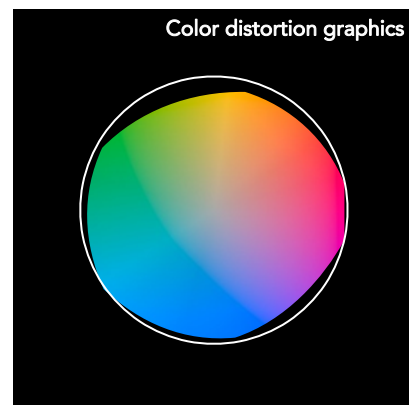
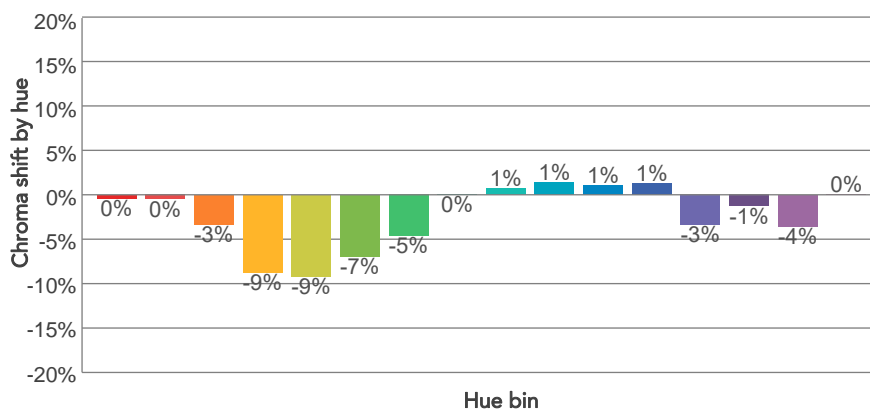
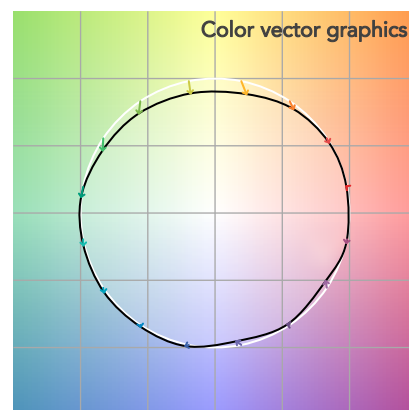
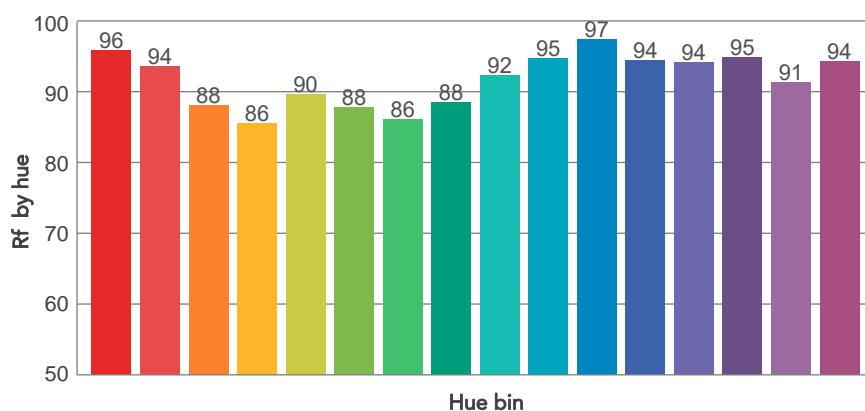
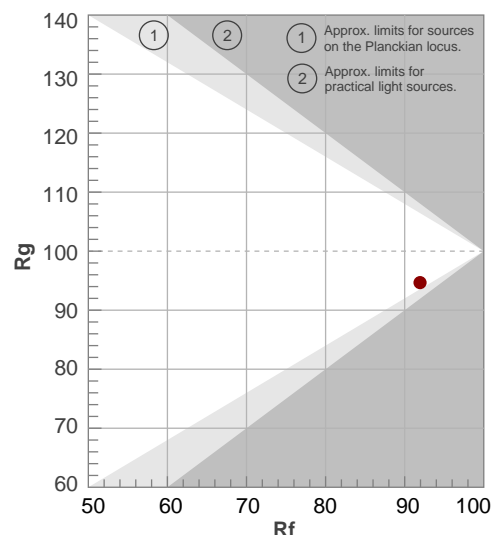
**Rf 91,9**

Fidelity index Rf

**Rg 94,7**

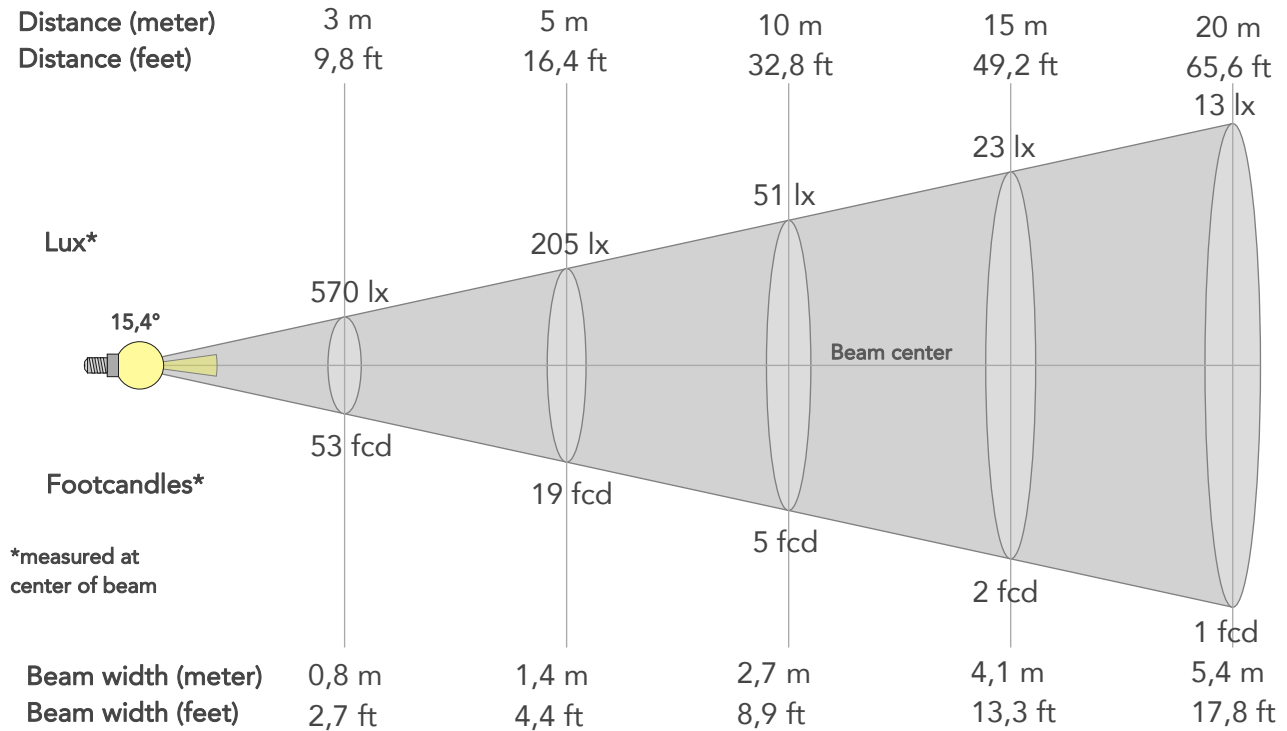
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	96	0%	0%
2	94	0%	-4%
3	88	-3%	-5%
4	86	-9%	-6%
5	90	-9%	0%
6	88	-7%	6%
7	86	-5%	8%
8	88	0%	8%
9	92	1%	4%
10	95	1%	3%
11	97	1%	1%
12	94	1%	-2%
13	94	-3%	-3%
14	95	-1%	-1%
15	91	-4%	4%
16	94	0%	-3%



# BEAM DETAILS

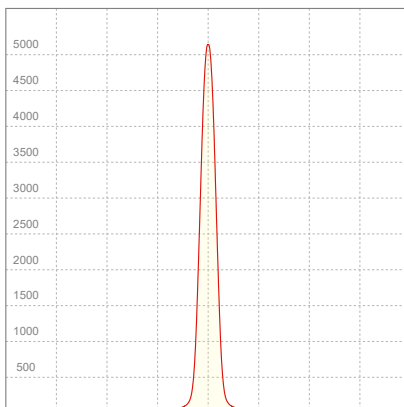
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	25,9°	37°	97,5%	94,7%



## 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	5132lx	1283lx	570lx	321lx	205lx	91lx	51lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	477fcd	119fcd	53fcd	30fcd	19fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,7ft	3,5ft	4,4ft	6,7ft	8,9ft	13,3ft	17,8ft	22,2ft	26,7ft	35,5ft	44,4ft

## LINEAR DISTRIBUTION DIAGRAM

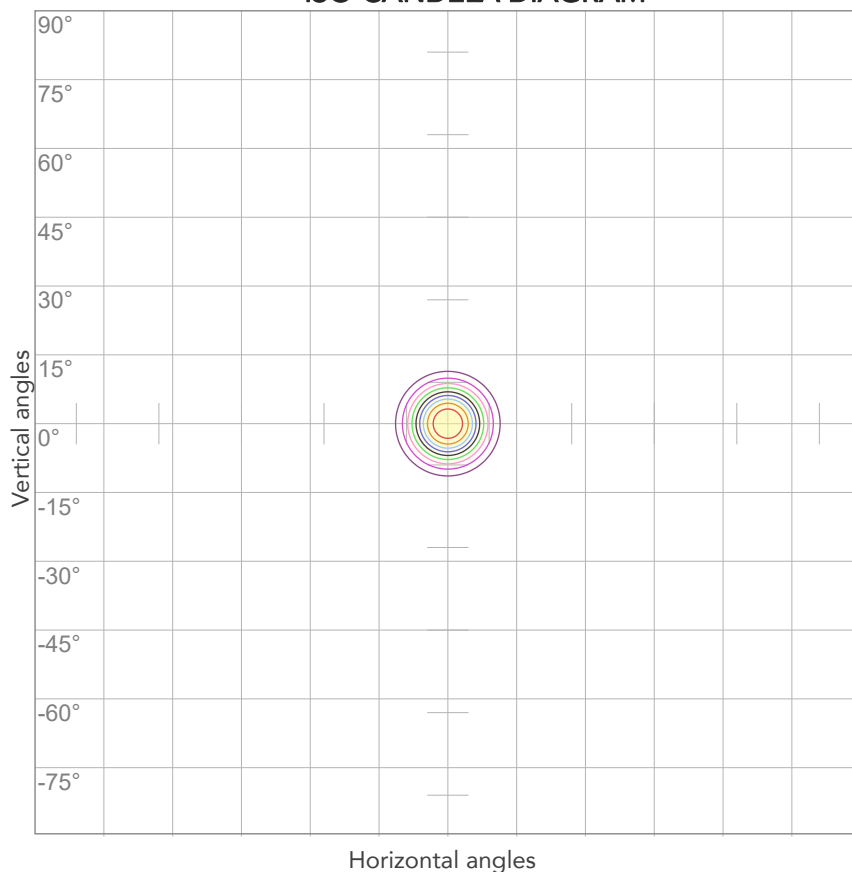


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,104A	12,8W	0,54	37lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



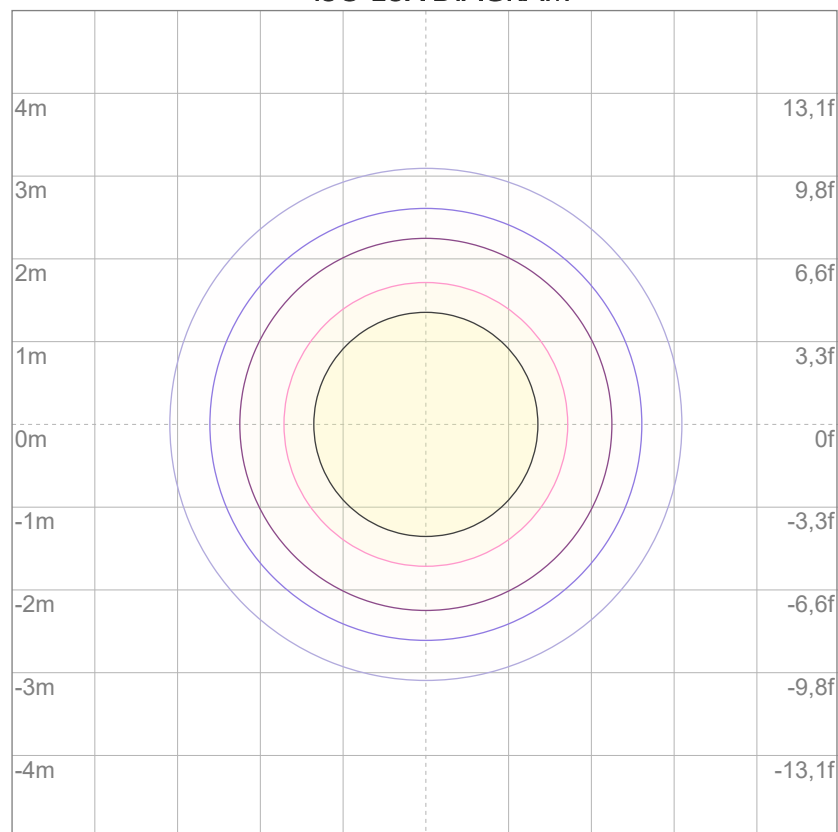
10%	513 cd
20%	1026 cd
30%	1540 cd
40%	2053 cd
50%	2566 cd
60%	3079 cd
70%	3592 cd
80%	4105 cd

### Conditions:

Number of c-planes: 2

Candela at center: 5132 cd

## ISO LUX DIAGRAM



3%	1,54 lx
5%	2,57 lx
10%	5,13 lx
30%	15,4 lx
50%	25,7 lx

### Conditions:

Number of c-planes: 2

Lux at center: 51,3 lx

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



Total lumen output:

674 lm

Peak candela output:

7324 cd

Light quality:

CRI: 94,7

Color temperature:

6988 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

15°

Target:

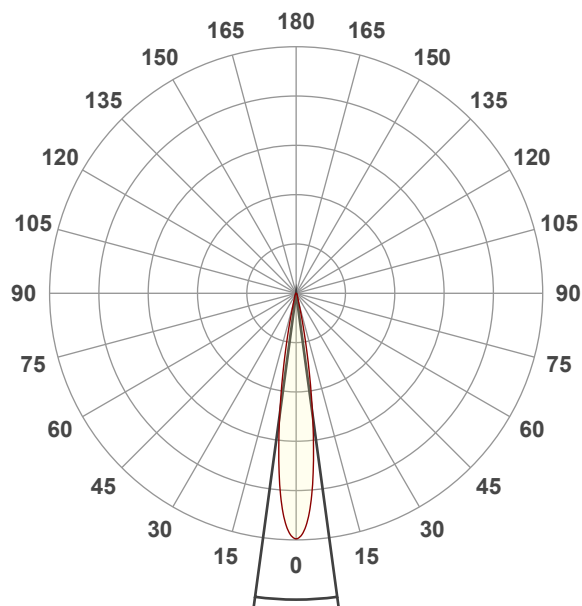
Cold White

Operator:

Salvatore Giglio

Date and time:

15/05/2024 10:58:00

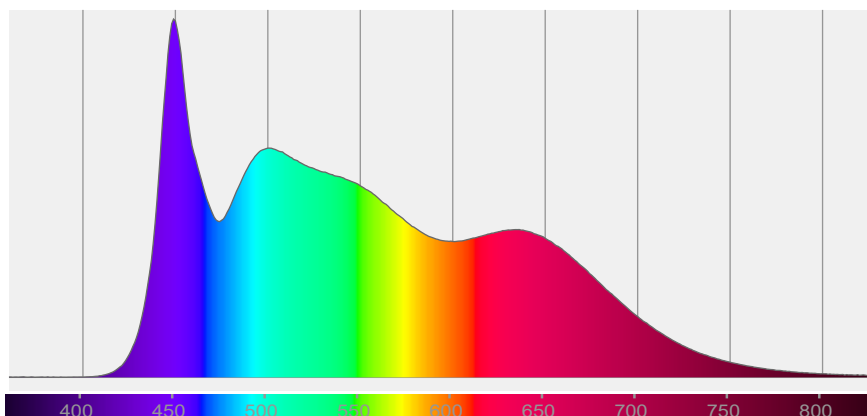


Beam angle 50%: 15,4°

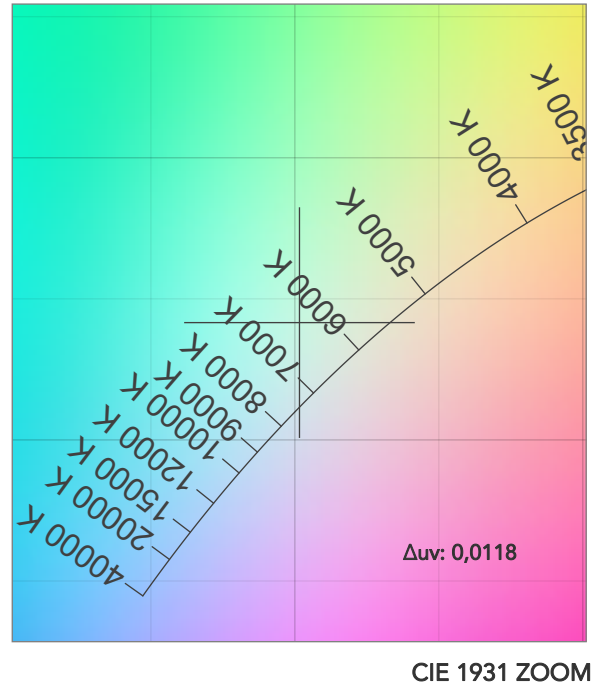
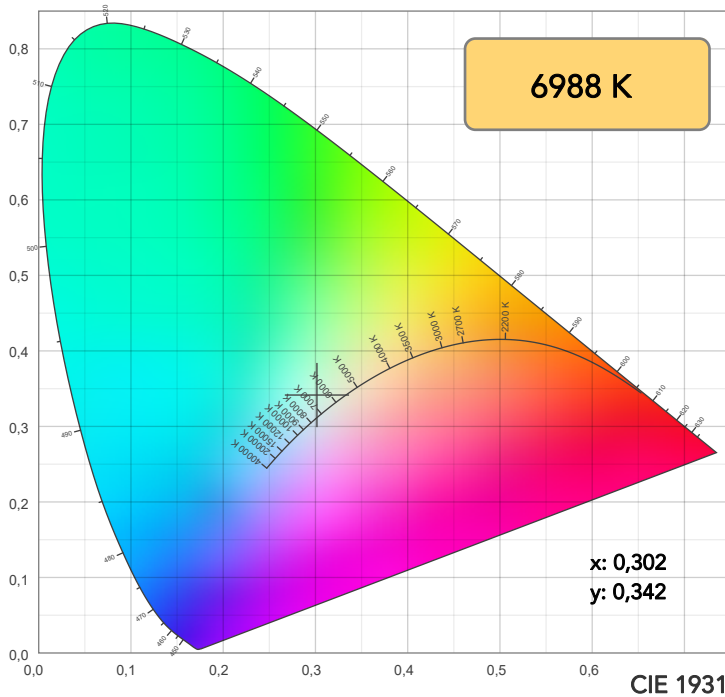
Field angle 10%: 25,8°

Cut off angle 2.5%: 36,6°

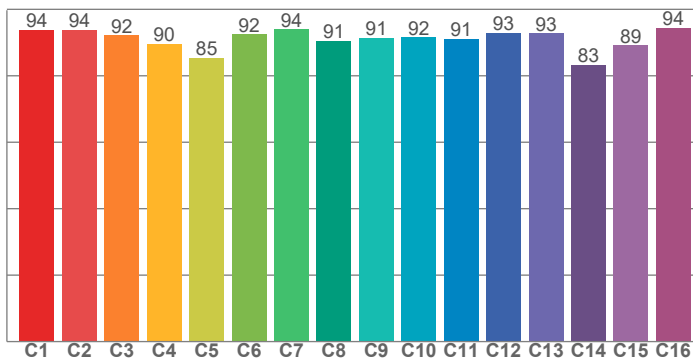
**Spectra**



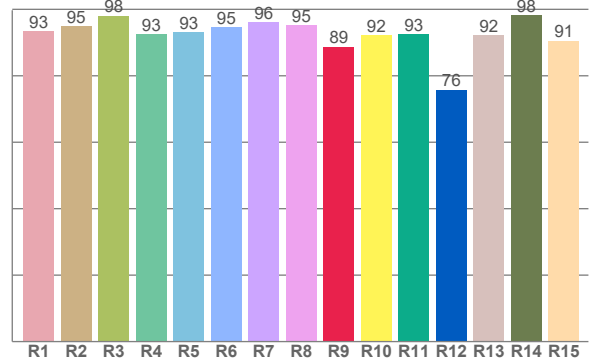
# COLOR DETAILS



TM30: 91,2



CRI: 94,7 (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
93,4	94,9	98,1	92,5	93,1	94,6	96,2	95,1	88,8	92,2	92,5	75,8	92,1	98,2	90,6

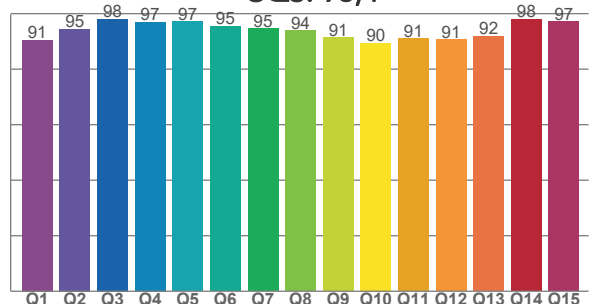
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,9	93,9	92,1	89,6	85,4	92,4	93,9	90,6	91,4	91,5	91,1	92,9	92,7	83,2	89,1	94,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,6	94,5	98,1	97,0	97,1	95,4	94,6	94,0	91,3	89,5	91,1	90,6	91,8	98,0	97,1

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	$\Delta uv$
6988 K	94,7	88,8	91,2	96,6	93,4	98	0,302	0,342	0,0118

## TM30 DETAILS

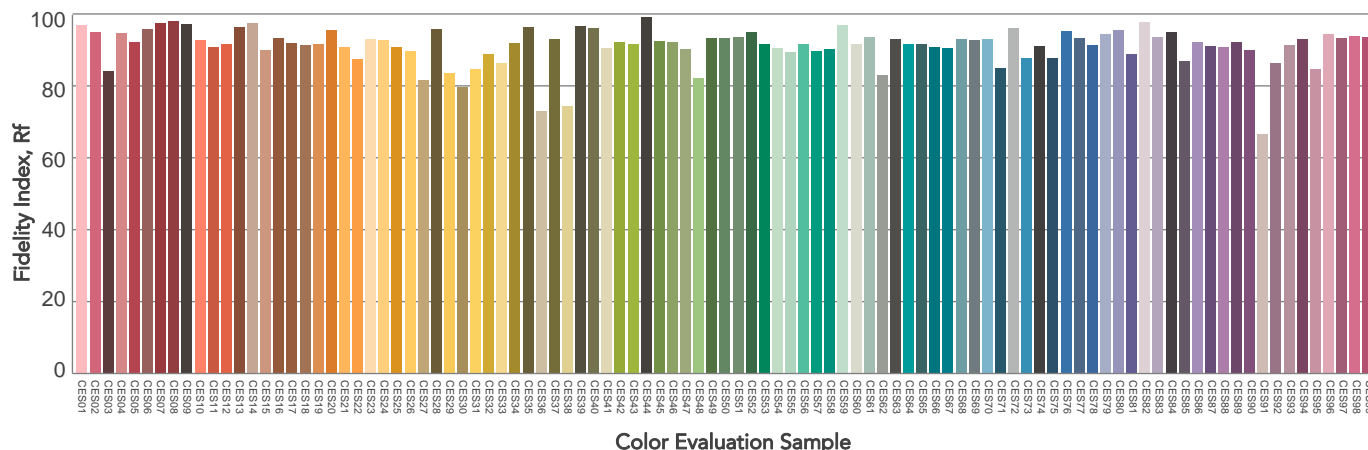
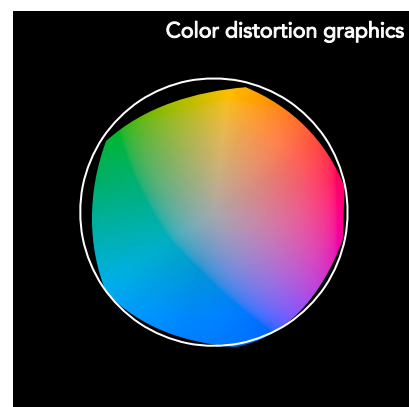
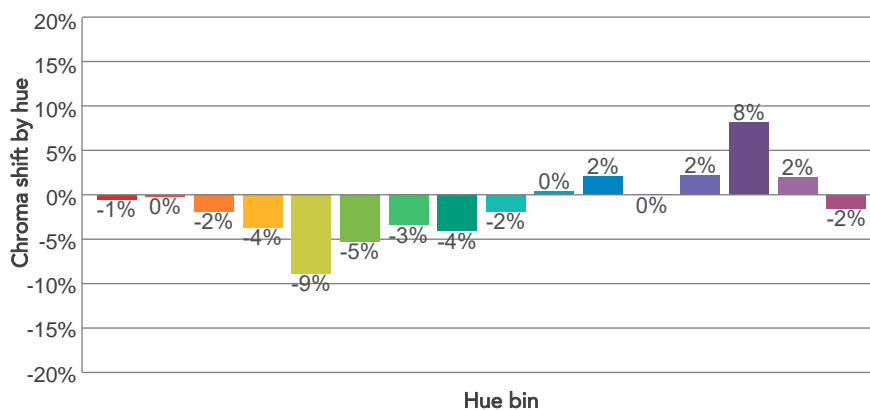
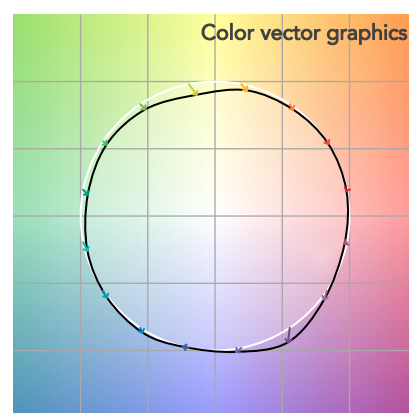
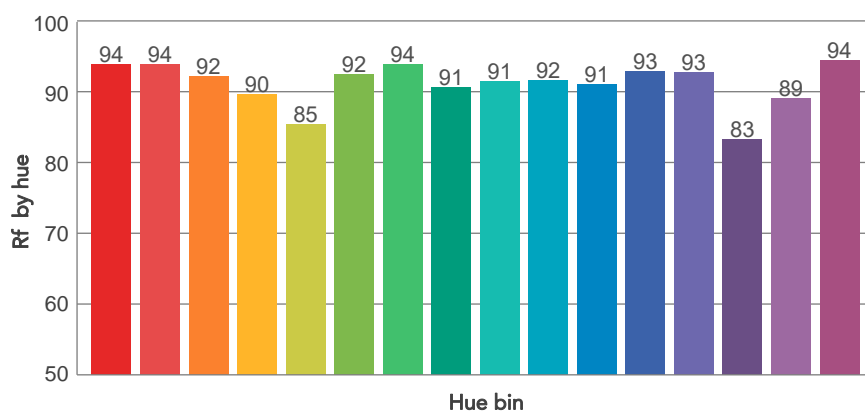
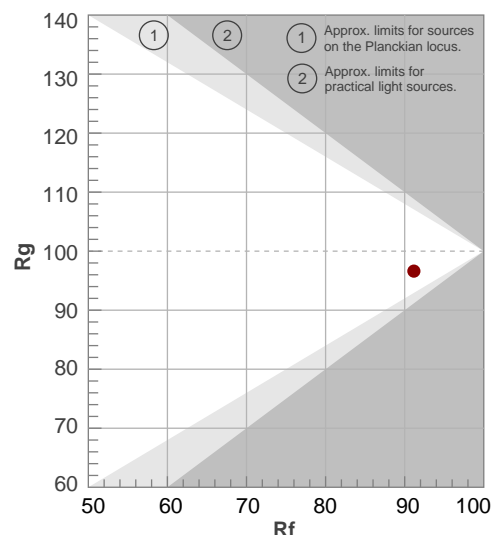
**Rf 91,2**

Fidelity index Rf

**Rg 96,6**

Gammut index

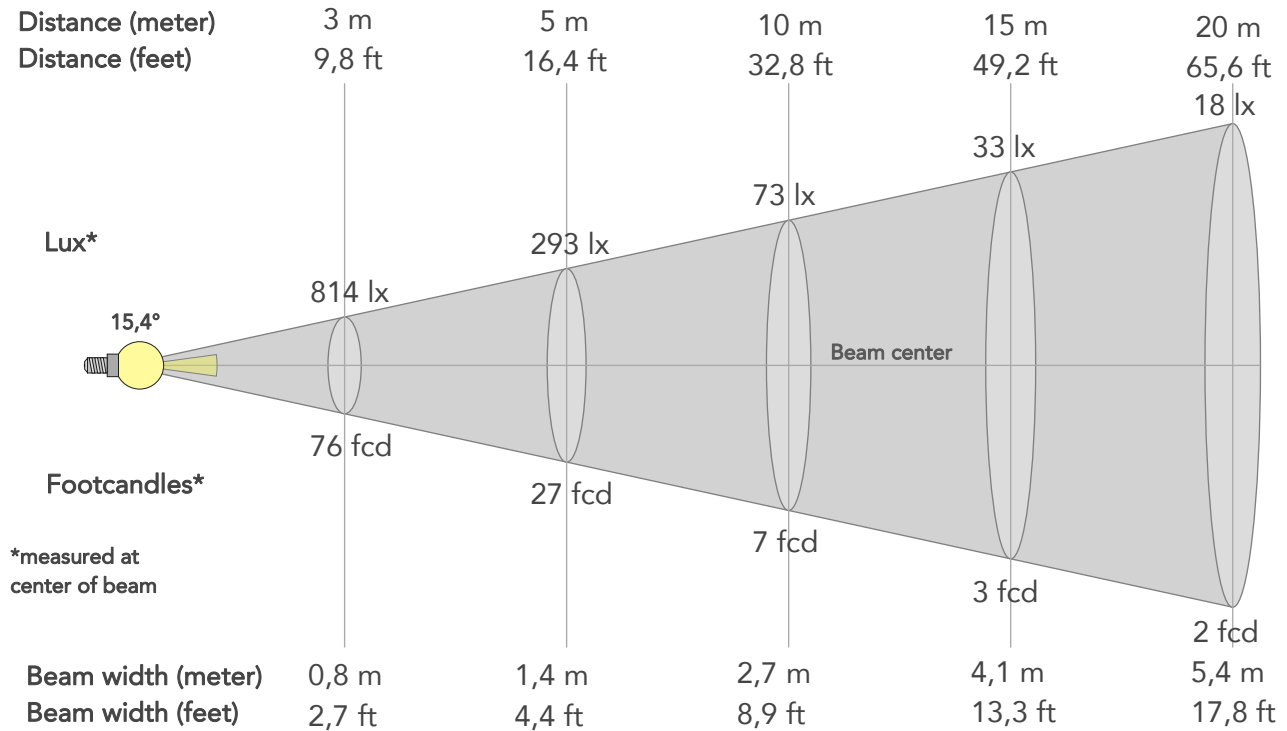
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	-1%
2	94	0%	-2%
3	92	-2%	-4%
4	90	-4%	-5%
5	85	-9%	-4%
6	92	-5%	-1%
7	94	-3%	1%
8	91	-4%	3%
9	91	-2%	7%
10	92	0%	6%
11	91	2%	3%
12	93	0%	-4%
13	93	2%	-4%
14	83	8%	-7%
15	89	2%	-6%
16	94	-2%	-1%





# BEAM DETAILS

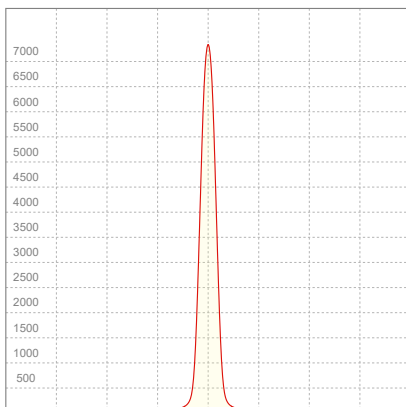
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	25,8°	36,6°	97,3%	94,7%



## 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	7324lx	1831lx	814lx	458lx	293lx	130lx	73lx	33lx	18lx	12lx	8lx	5lx	3lx
Footcand.	680fcd	170fcd	76fcd	43fcd	27fcd	12fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,7ft	3,5ft	4,4ft	6,7ft	8,9ft	13,3ft	17,8ft	22,2ft	26,6ft	35,5ft	44,4ft

## LINEAR DISTRIBUTION DIAGRAM

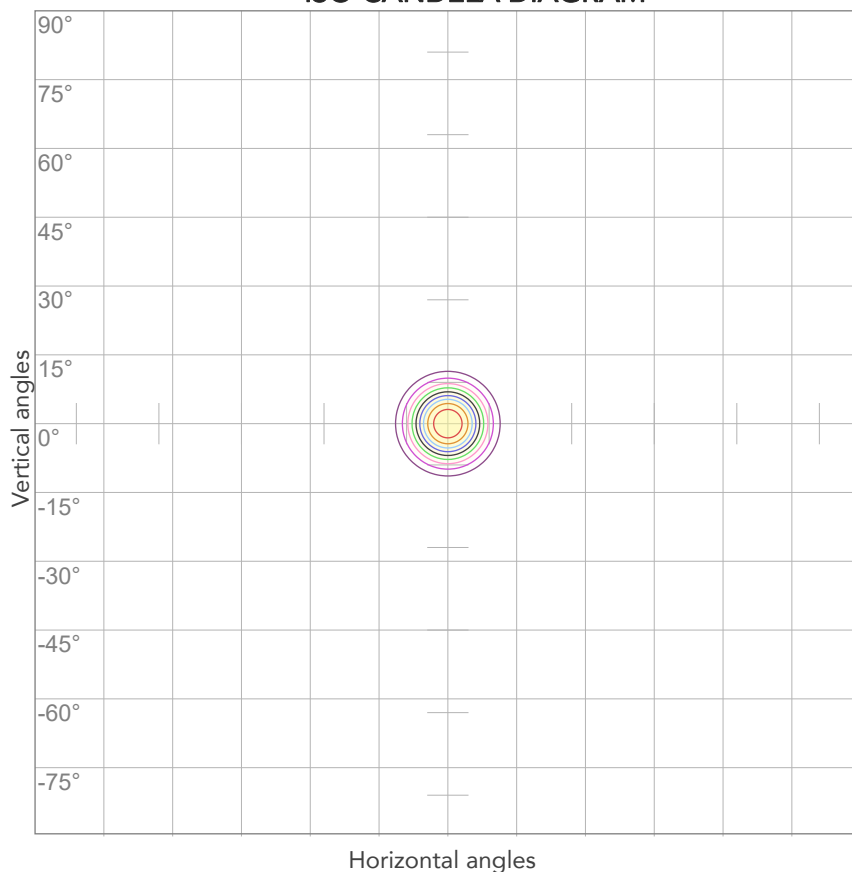


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,105A	12,7W	0,53	53lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



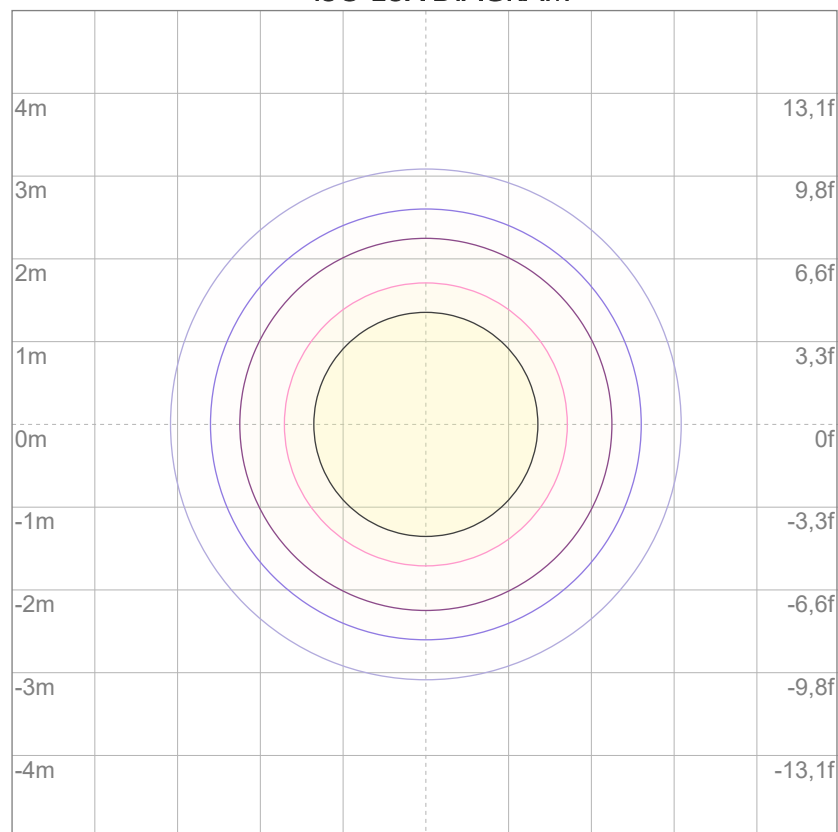
10%	732 cd
20%	1465 cd
30%	2197 cd
40%	2929 cd
50%	3662 cd
60%	4394 cd
70%	5127 cd
80%	5859 cd

### Conditions:

Number of c-planes: 2

Candela at center: 7324 cd

## ISO LUX DIAGRAM



3%	2,20 lx
5%	3,66 lx
10%	7,32 lx
30%	22,0 lx
50%	36,6 lx

### Conditions:

Number of c-planes: 2

Lux at center: 73,2 lx

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



Total lumen output:

485 lm

Peak candela output:

5204 cd

Light quality:

CRI: 97,0

Color temperature:

2658 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

15°

Target:

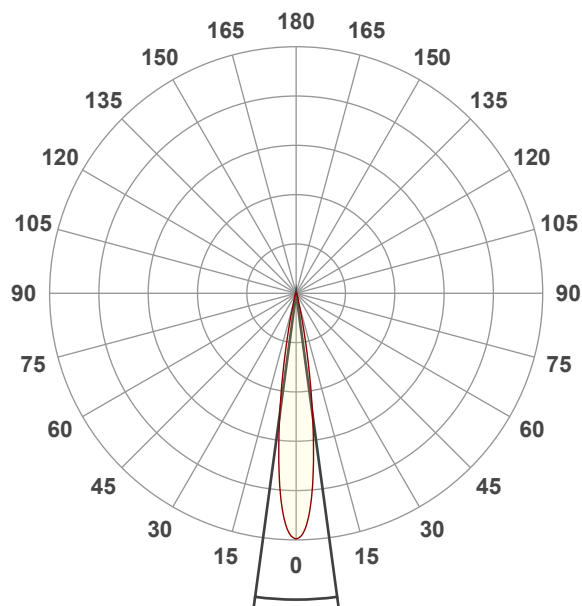
2700K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 11:04:29

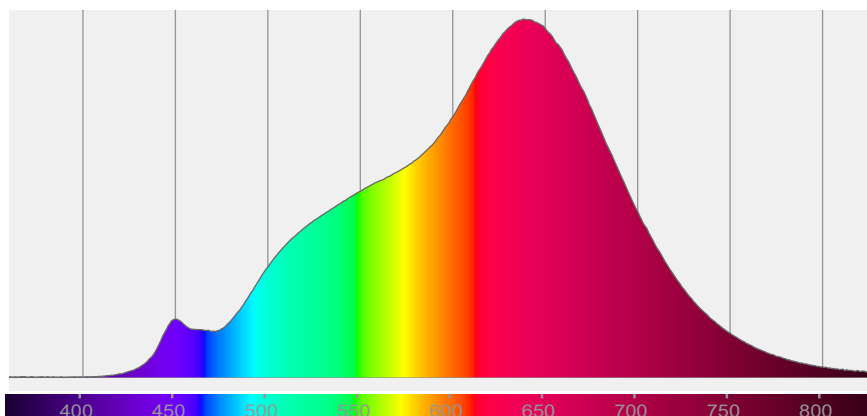


Beam angle 50%: 15,4°

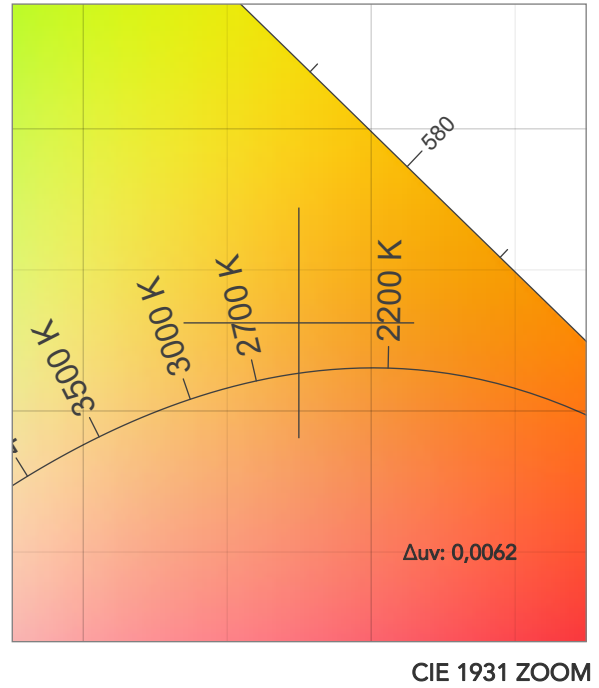
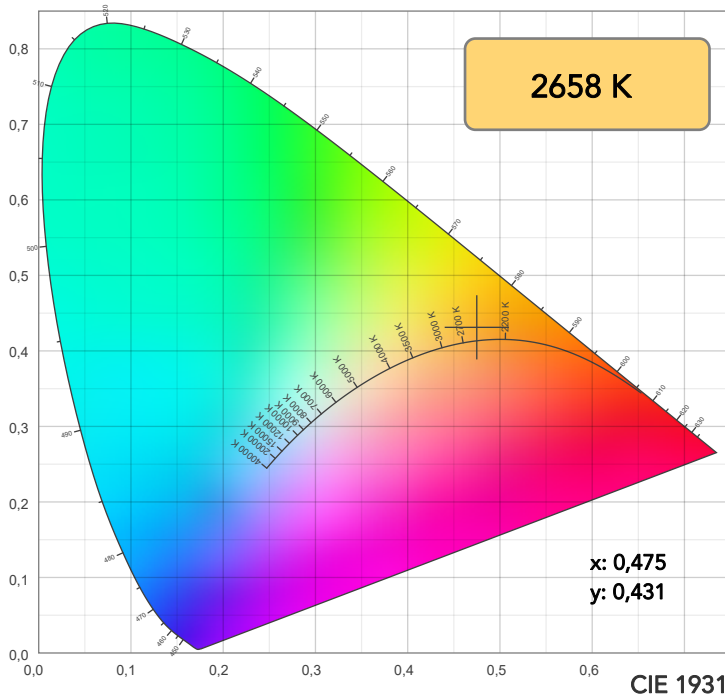
Field angle 10%: 25,9°

Cut off angle 2.5%: 36,9°

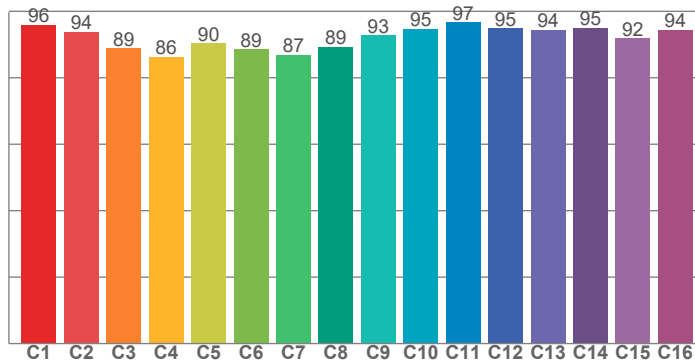
**Spectra**



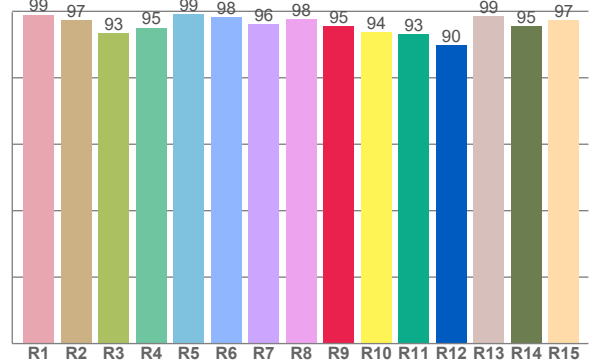
## COLOR DETAILS



TM30: 92,3



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
99,0	97,3	93,3	95,1	99,1	98,2	96,1	97,5	95,4	93,8	93,0	89,8	98,6	95,4	97,3

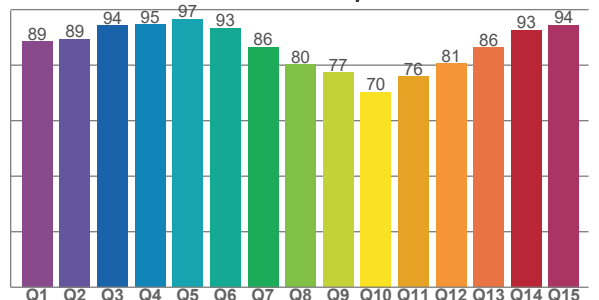
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,0	93,9	88,8	86,3	90,3	88,6	87,0	89,3	92,7	94,8	96,7	94,9	94,4	95,1	91,8	94,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88,5	89,4	94,2	94,6	96,5	93,5	86,5	80,2	77,3	70,4	75,9	80,5	86,4	92,7	94,4

CQS: 84,2



## 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	$\Delta uv$
2658 K	97,0	95,4	92,3	95,2	84,2	95	0,475	0,431	0,0062

## TM30 DETAILS

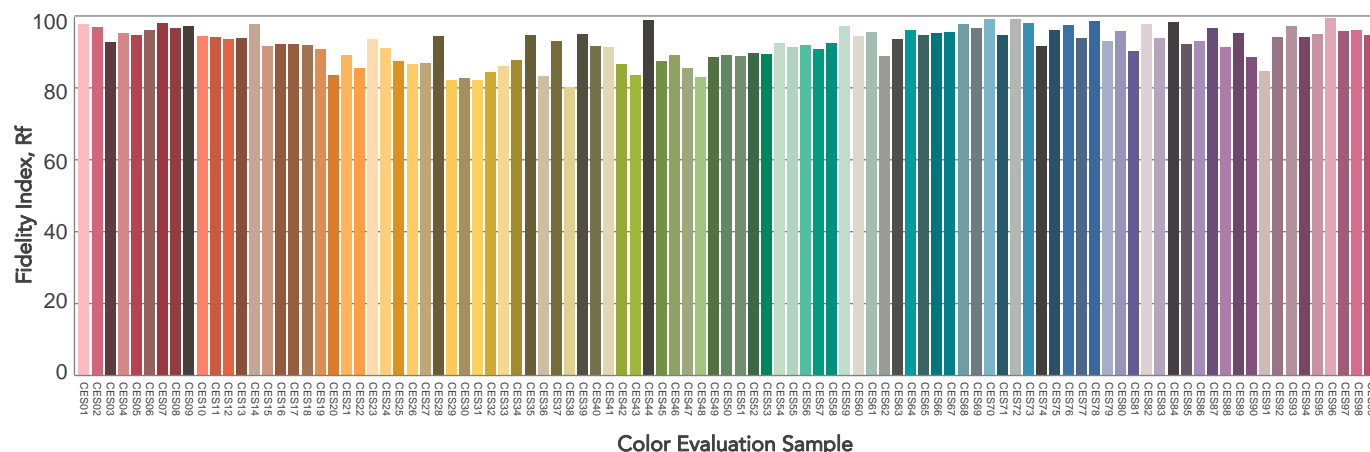
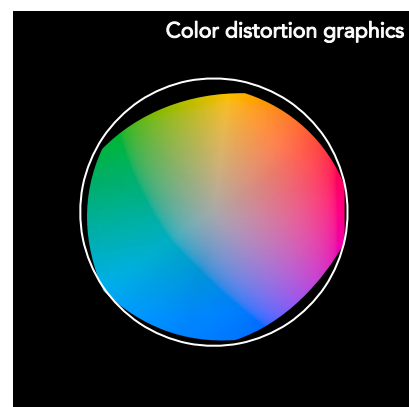
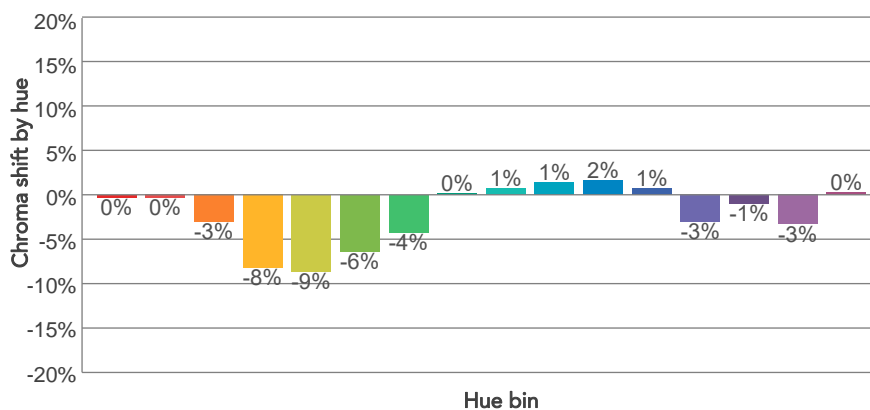
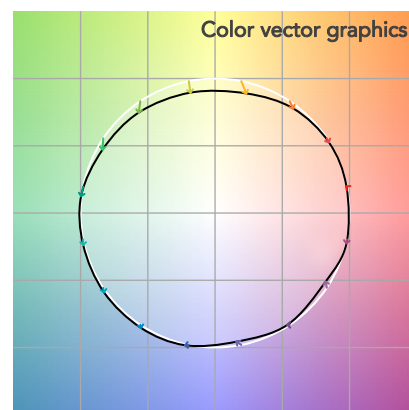
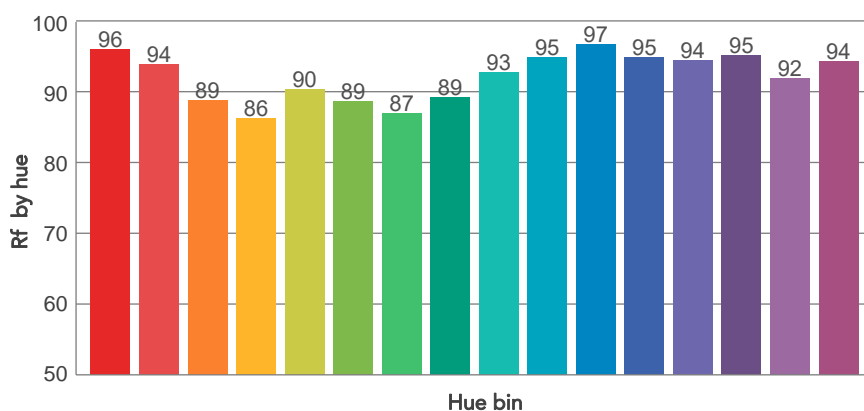
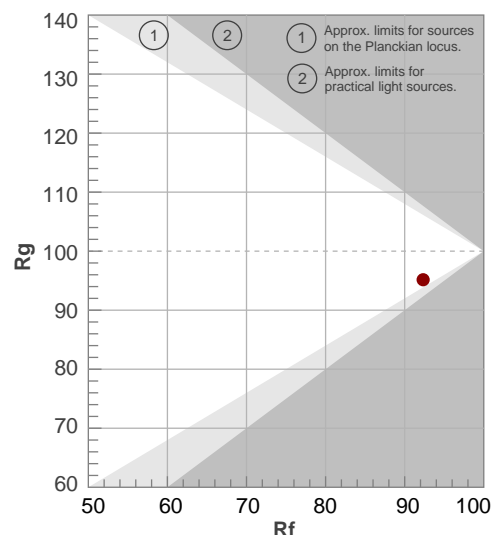
**Rf 92,3**

Fidelity index Rf

**Rg 95,2**

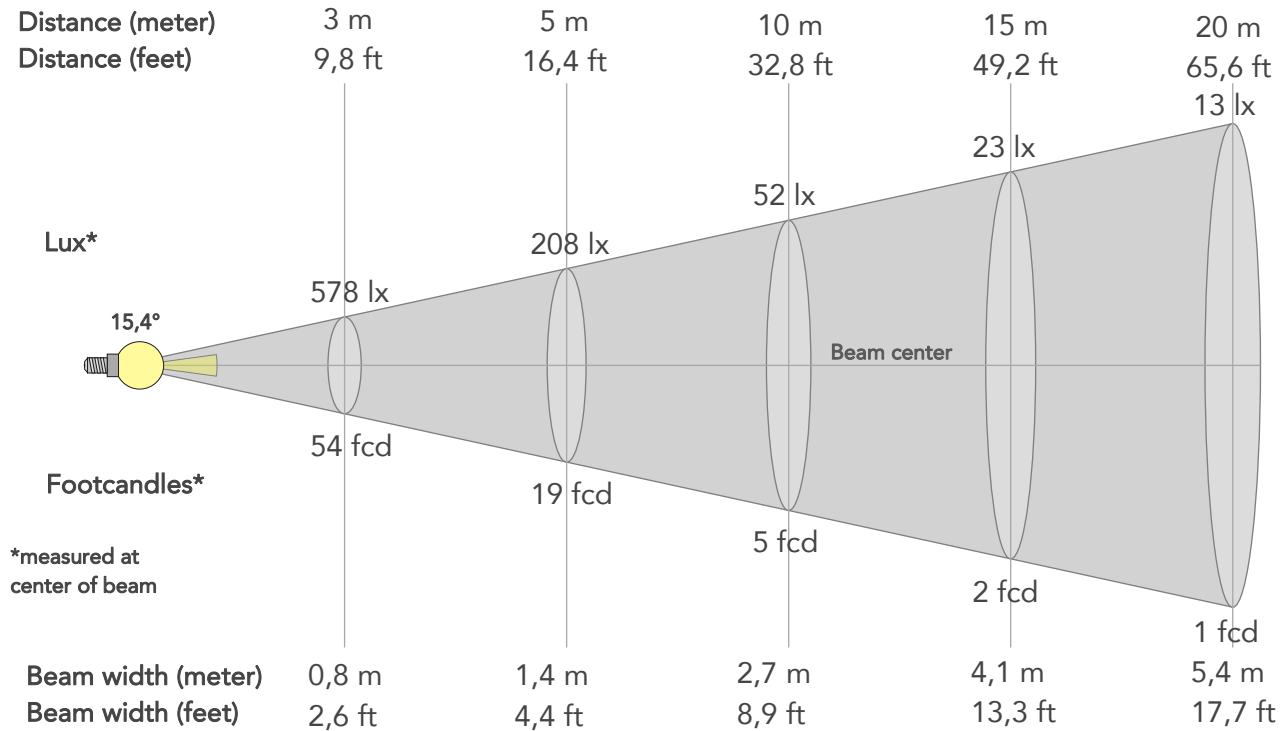
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	96	0%	0%
2	94	0%	-3%
3	89	-3%	-5%
4	86	-8%	-5%
5	90	-9%	0%
6	89	-6%	6%
7	87	-4%	7%
8	89	0%	7%
9	93	1%	4%
10	95	1%	3%
11	97	2%	2%
12	95	1%	-3%
13	94	-3%	-3%
14	95	-1%	-2%
15	92	-3%	3%
16	94	0%	-3%



# BEAM DETAILS

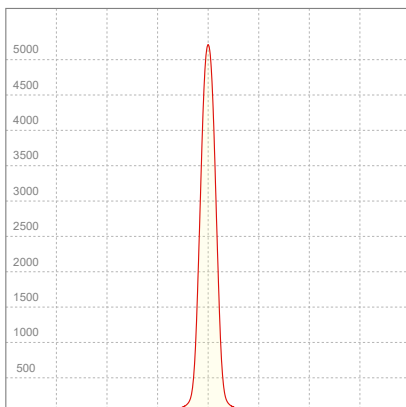
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	25,9°	36,9°	96,7%	94,0%



## 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	5204lx	1301lx	578lx	325lx	208lx	93lx	52lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	483fcd	121fcd	54fcd	30fcd	19fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,7ft	8,9ft	13,3ft	17,7ft	22,2ft	26,6ft	35,5ft	44,3ft

## LINEAR DISTRIBUTION DIAGRAM

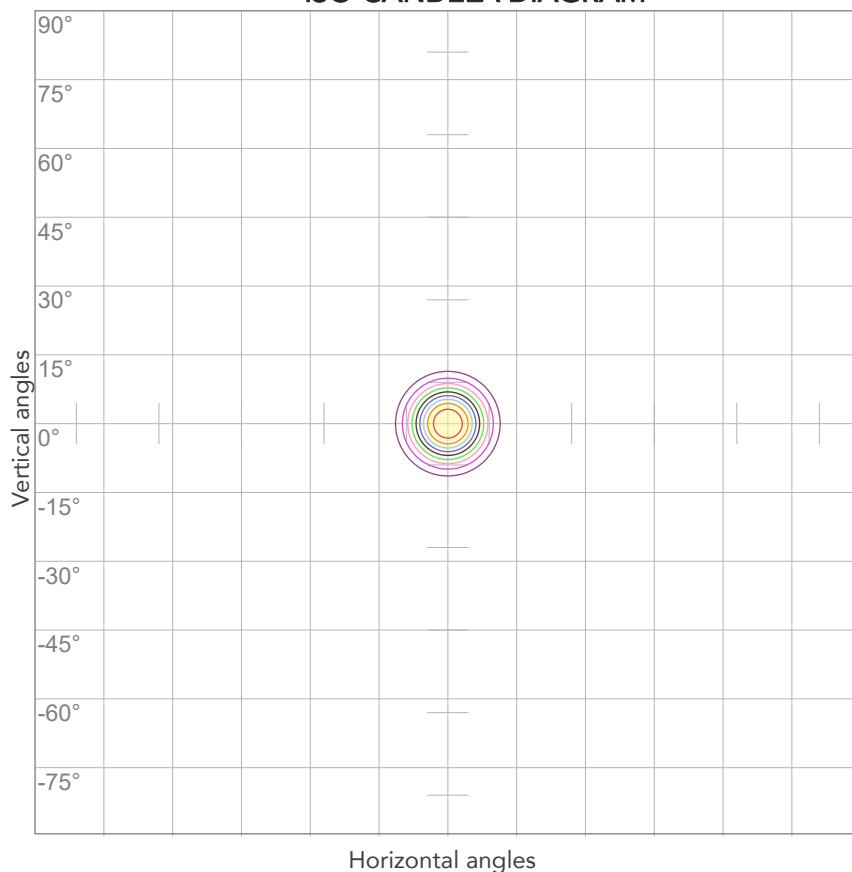


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,109A	12,9W	0,52	38lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



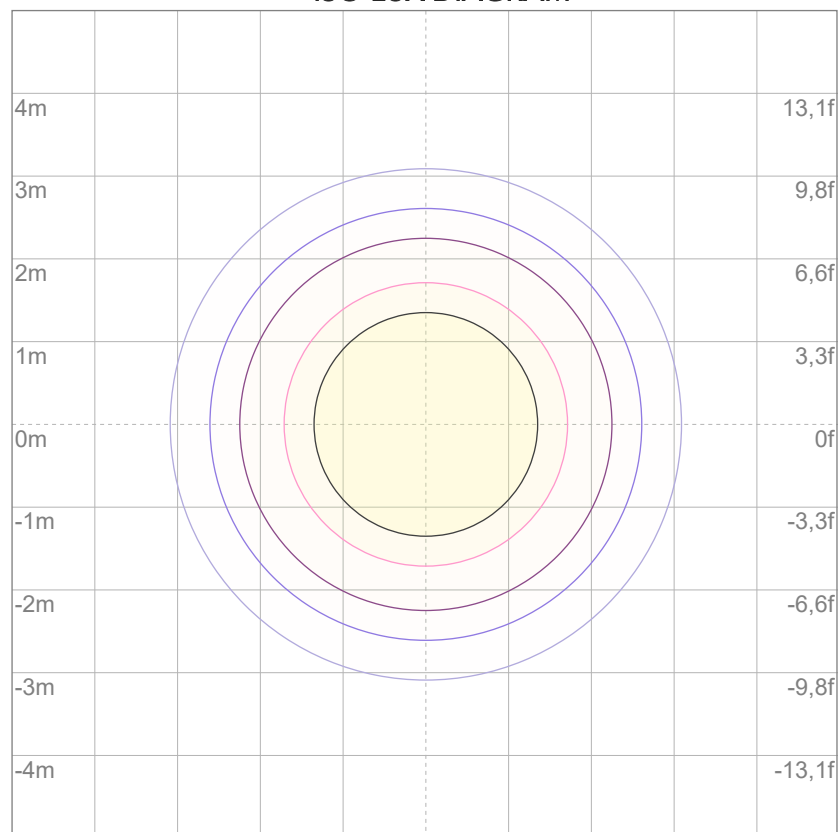
10%	520 cd
20%	1041 cd
30%	1561 cd
40%	2081 cd
50%	2602 cd
60%	3122 cd
70%	3643 cd
80%	4163 cd

### Conditions:

Number of c-planes: 2

Candela at center: 5204 cd

## ISO LUX DIAGRAM



3%	1,56 lx
5%	2,60 lx
10%	5,20 lx
30%	15,6 lx
50%	26,0 lx

### Conditions:

Number of c-planes: 2

Lux at center: 52,0 lx

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



Total lumen output:

524 lm

Peak candela output:

5644 cd

Light quality:

CRI: 97,1

Color temperature:

2824 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

15°

Target:

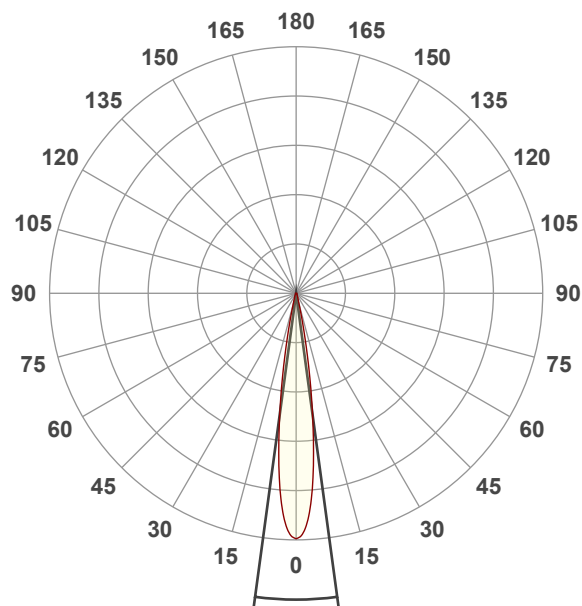
2800K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 11:06:00

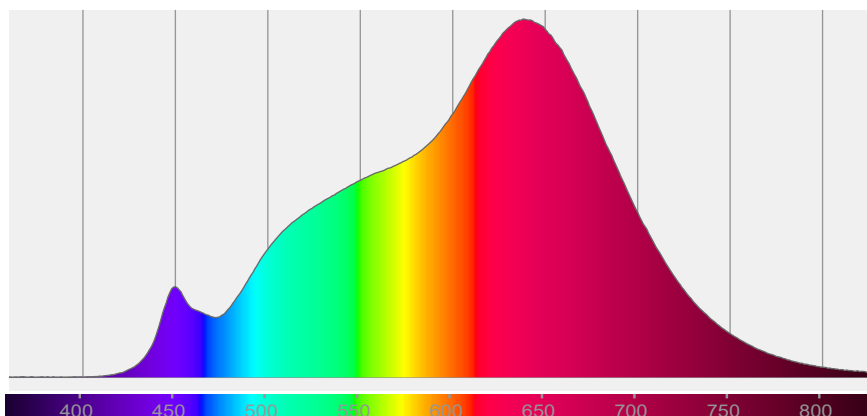


Beam angle 50%: 15,4°

Field angle 10%: 25,9°

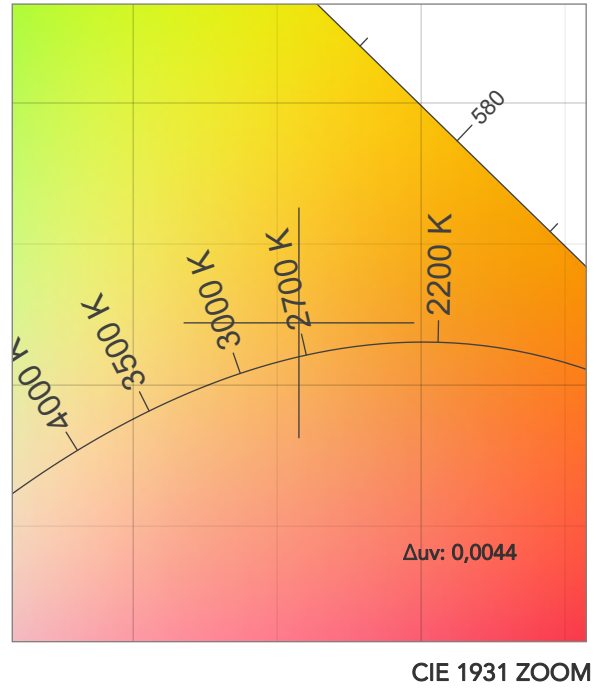
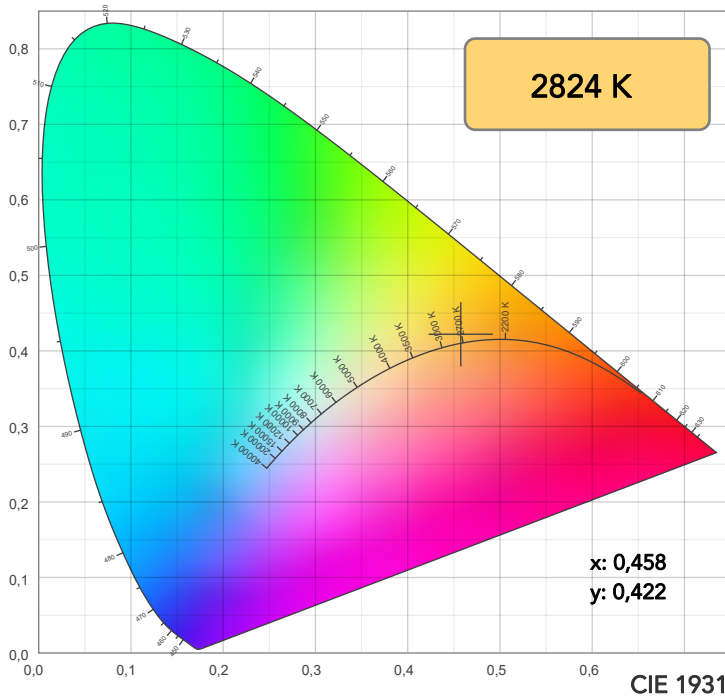
Cut off angle 2.5%: 36,8°

**Spectra**

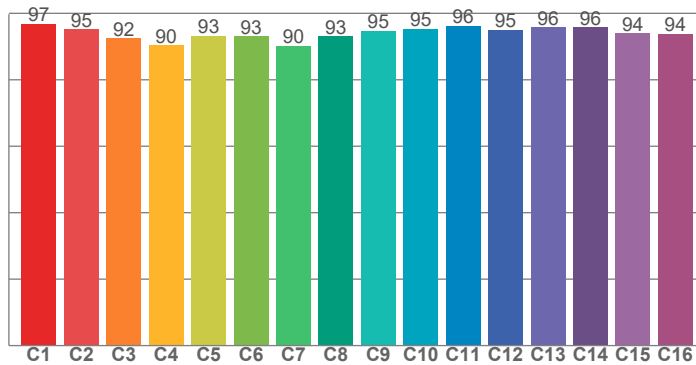




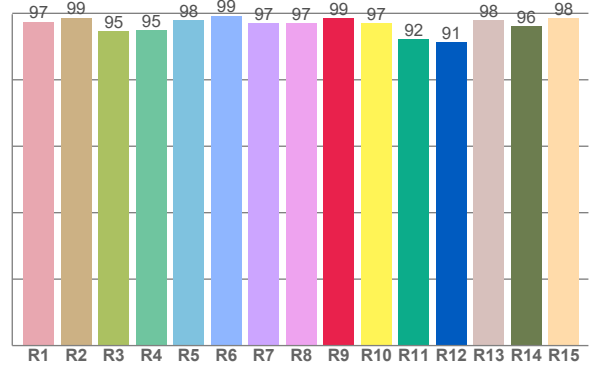
# COLOR DETAILS



**TM30: 94,1**



**CRI: 97,1 (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
97,4	98,7	94,6	94,9	98,0	99,3	97,0	97,0	98,6	97,0	92,3	91,3	97,9	96,2	98,5

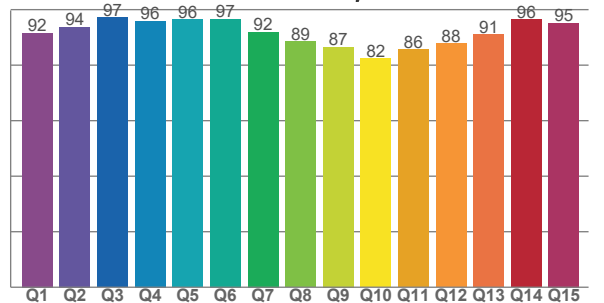
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,8	95,2	92,4	90,4	93,2	93,1	90,2	93,1	94,7	95,4	96,2	95,0	95,8	95,8	94,0	93,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,6	93,8	97,1	95,8	96,5	96,6	92,0	88,5	86,5	82,4	85,6	87,8	91,1	96,5	95,2

**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	$\Delta uv$
2824 K	97,1	98,6	94,1	98,1	90,3	98	0,458	0,422	0,0044

## TM30 DETAILS

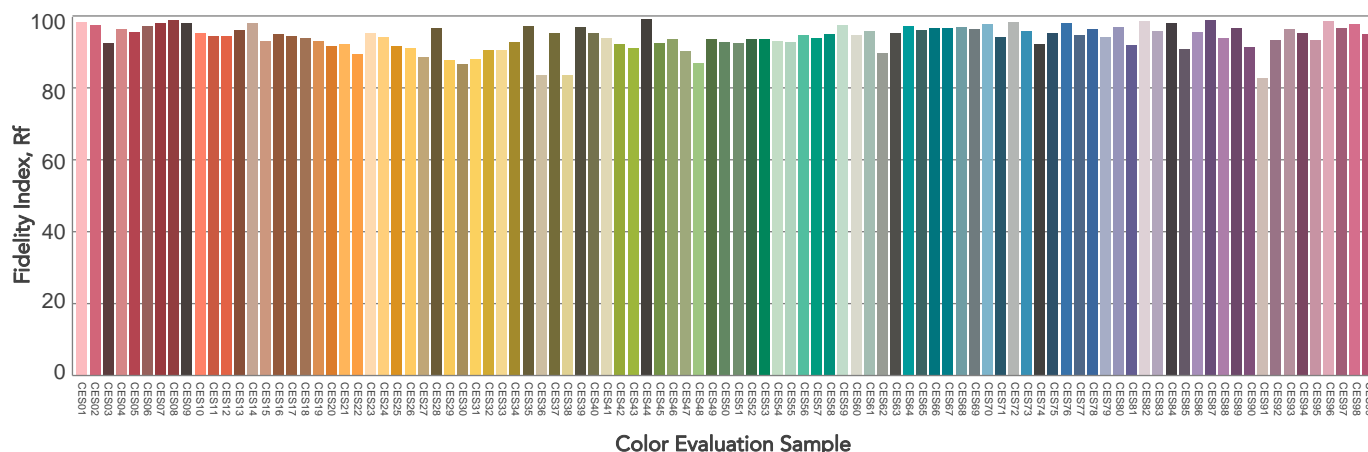
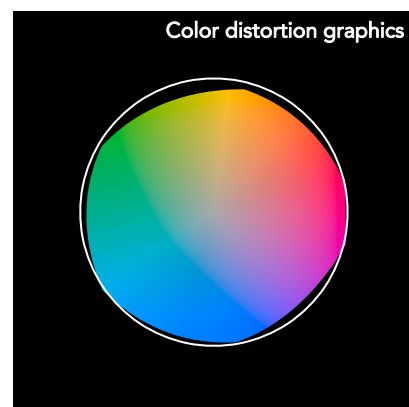
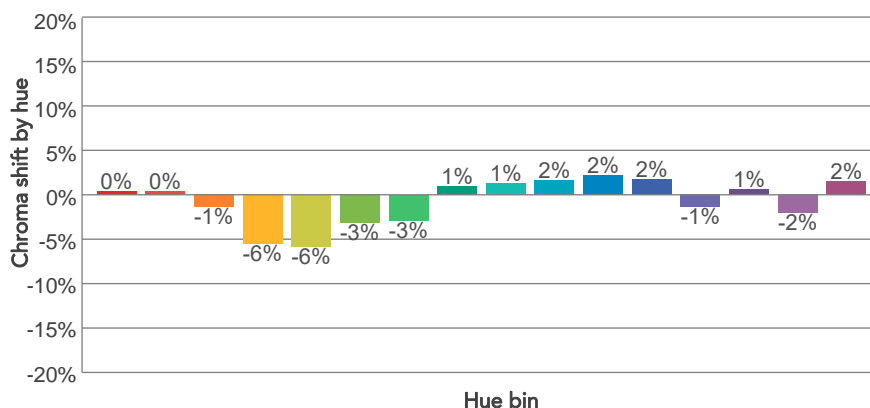
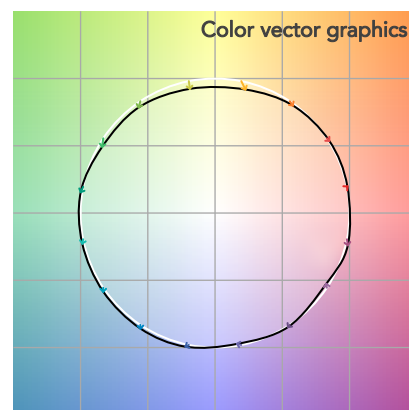
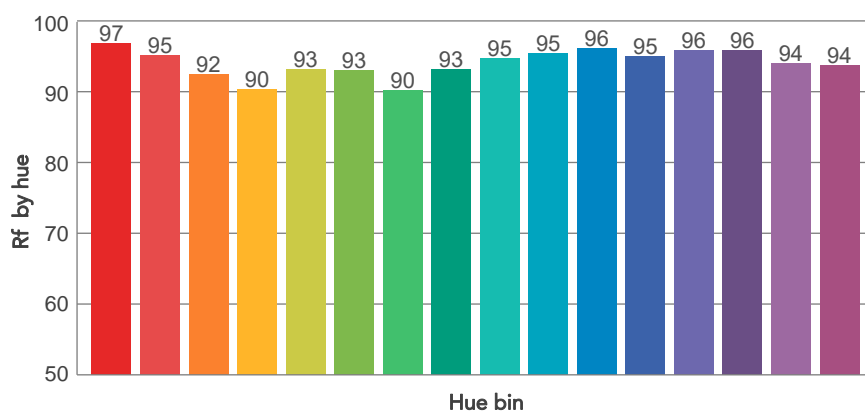
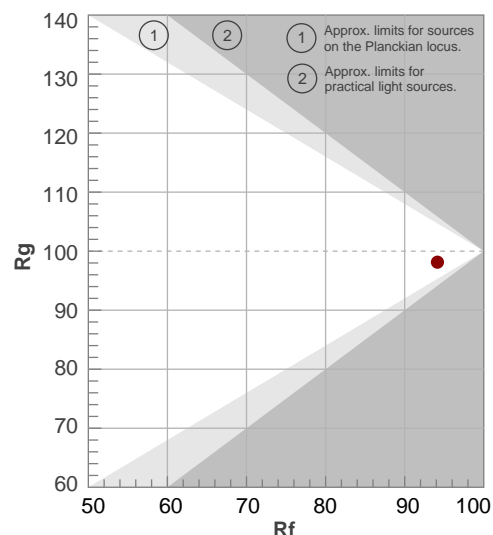
**Rf 94,1**

Fidelity index Rf

**Rg 98,1**

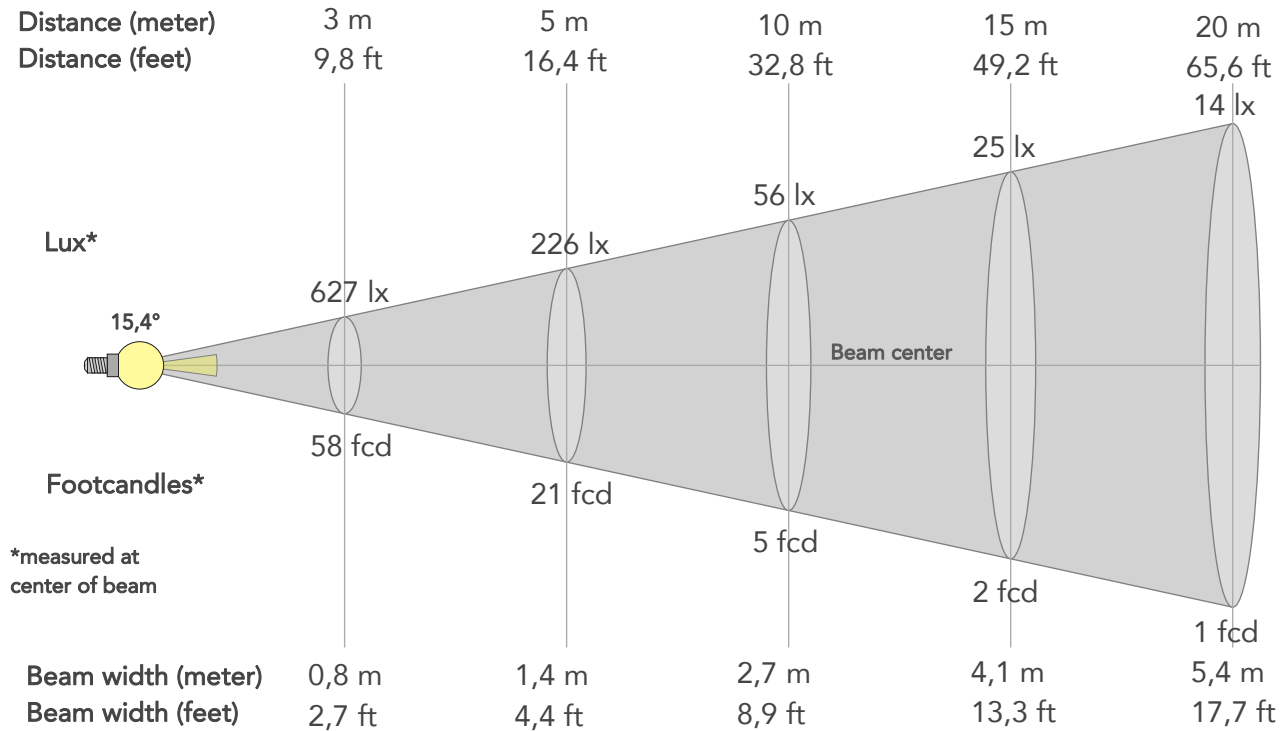
Gammut index

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



# BEAM DETAILS

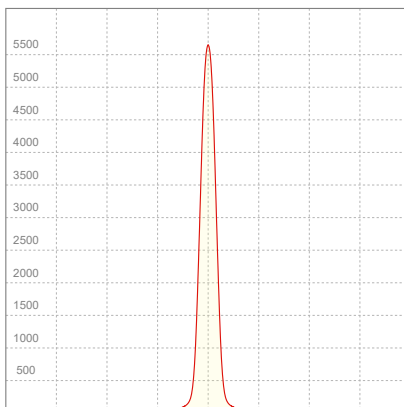
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	25,9°	36,8°	97,0%	94,3%



## 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	5644lx	1411lx	627lx	353lx	226lx	100lx	56lx	25lx	14lx	9lx	6lx	4lx	2lx
Footcand.	524fcd	131fcd	58fcd	33fcd	21fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,7ft	3,5ft	4,4ft	6,7ft	8,9ft	13,3ft	17,7ft	22,2ft	26,6ft	35,5ft	44,4ft

## LINEAR DISTRIBUTION DIAGRAM

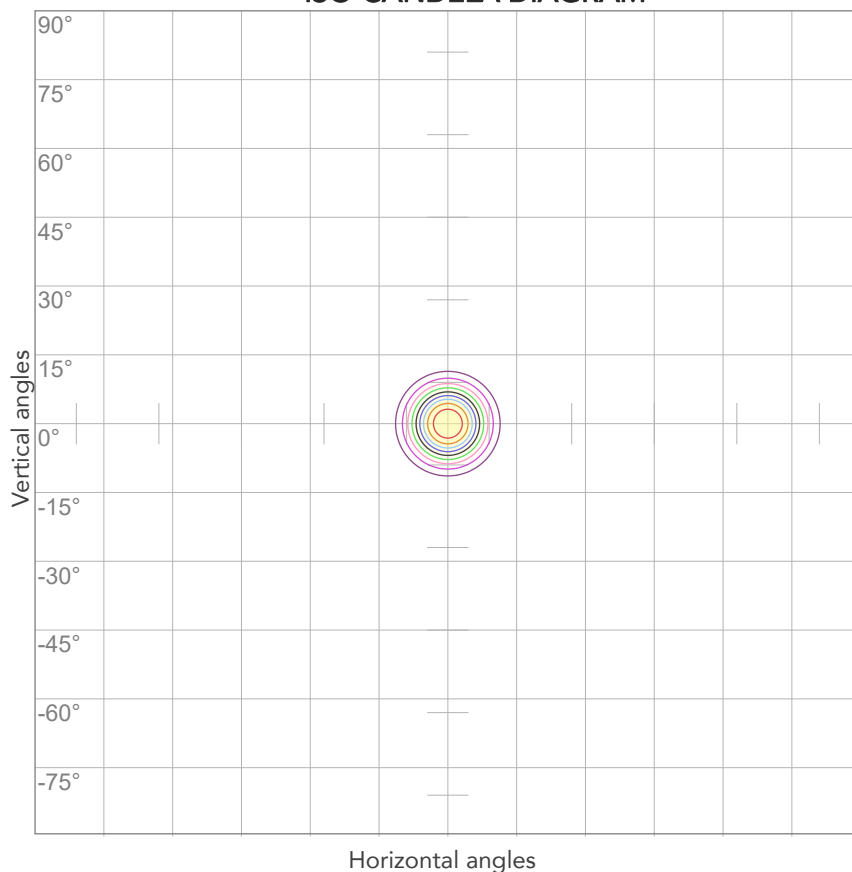


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,116A	13,6W	0,52	39lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



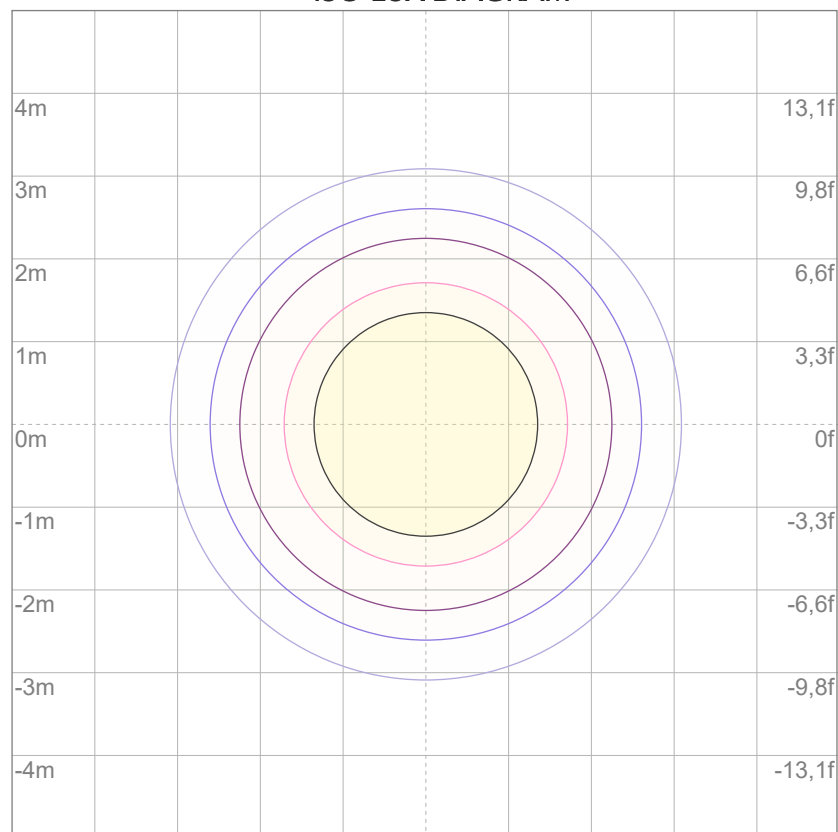
10%	564 cd
20%	1129 cd
30%	1693 cd
40%	2258 cd
50%	2822 cd
60%	3387 cd
70%	3951 cd
80%	4515 cd

### Conditions:

Number of c-planes: 2

Candela at center: 5644 cd

## ISO LUX DIAGRAM



3%	1,69 lx
5%	2,82 lx
10%	5,64 lx
30%	16,9 lx
50%	28,2 lx

### Conditions:

Number of c-planes: 2

Lux at center: 56,4 lx

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



Total lumen output:

634 lm

Peak candela output:

6860 cd

Light quality:

CRI: 95,9

Color temperature:

3232 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

15°

Target:

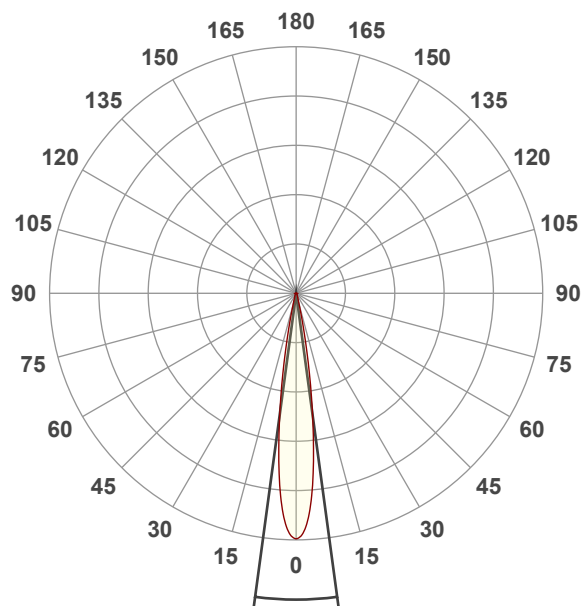
3200K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 11:09:51

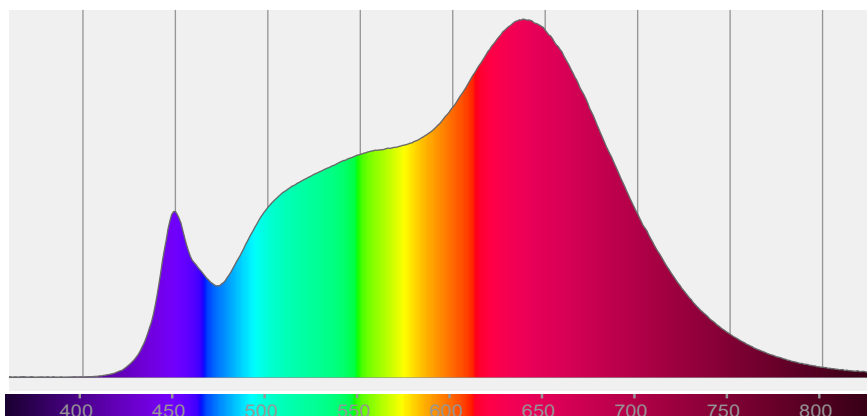


Beam angle 50%: 15,4°

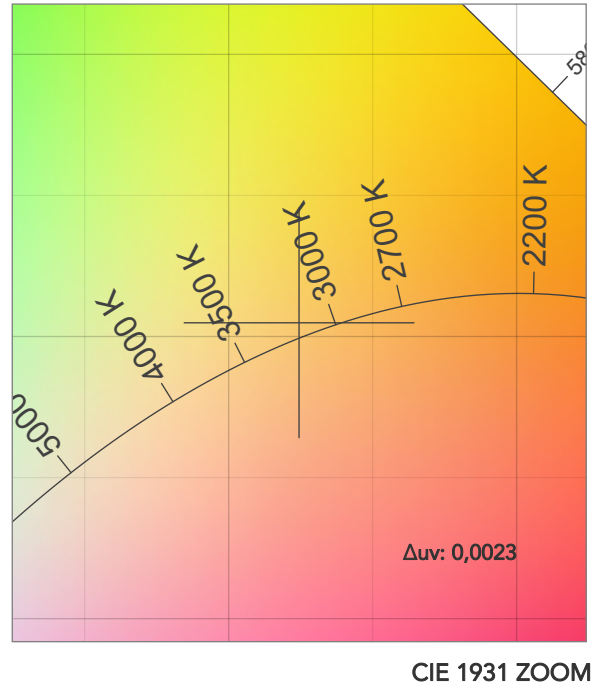
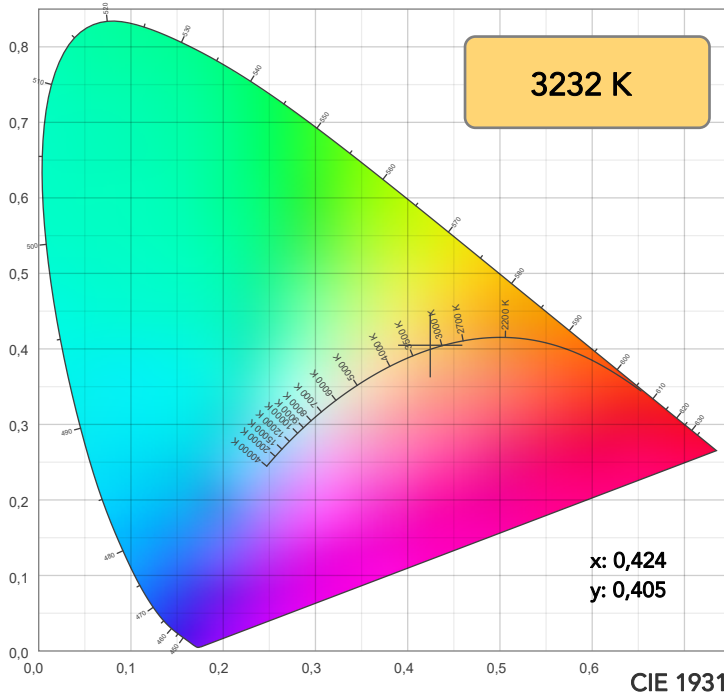
Field angle 10%: 25,8°

Cut off angle 2.5%: 36,7°

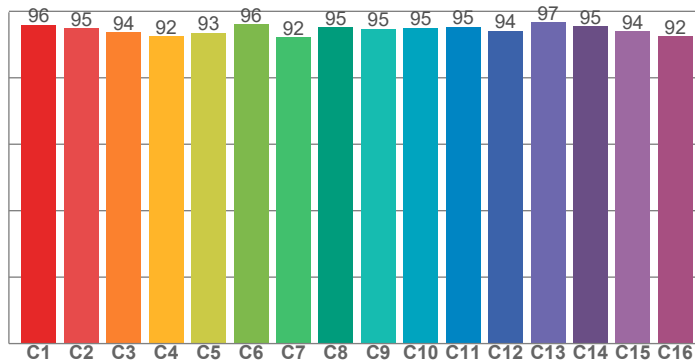
**Spectra**



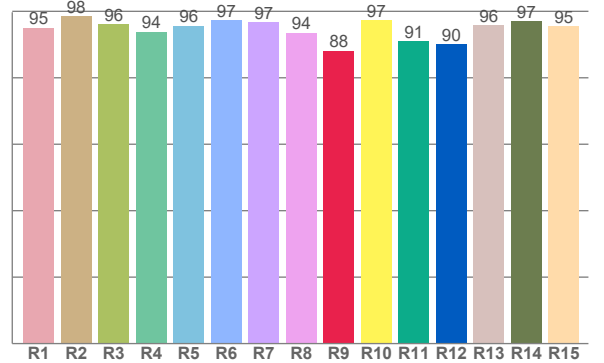
# COLOR DETAILS



TM30: 94,5



CRI: 95,9 (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
95,1	98,4	96,1	93,9	95,7	97,4	96,8	93,6	88,2	97,3	90,9	90,1	95,7	97,1	95,4

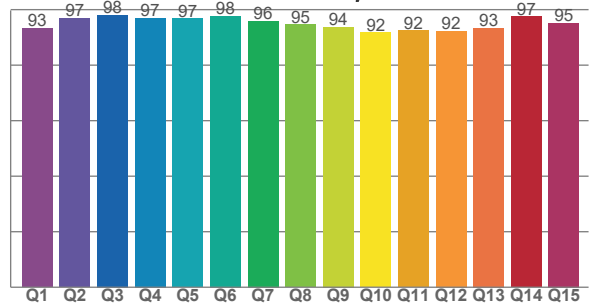
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,8	94,9	93,6	92,5	93,4	96,0	92,2	95,1	94,7	95,1	95,2	94,2	96,6	95,5	93,9	92,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,3	96,9	98,1	97,0	96,7	97,7	95,9	94,6	93,7	91,8	92,5	92,2	93,3	97,4	95,3

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	$\Delta uv$
3232 K	95,9	88,2	94,5	100,7	94,5	99	0,424	0,405	0,0023

## TM30 DETAILS

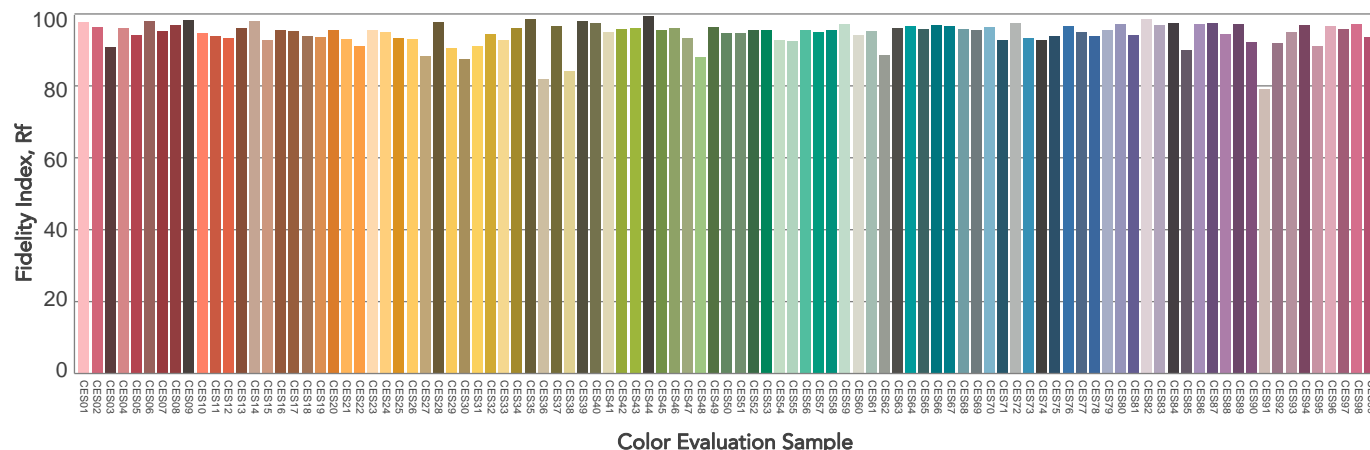
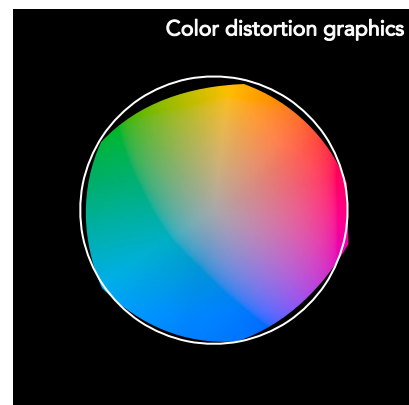
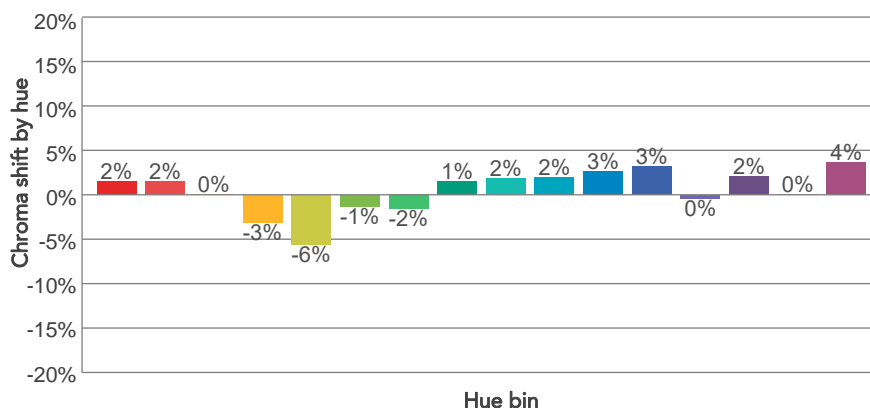
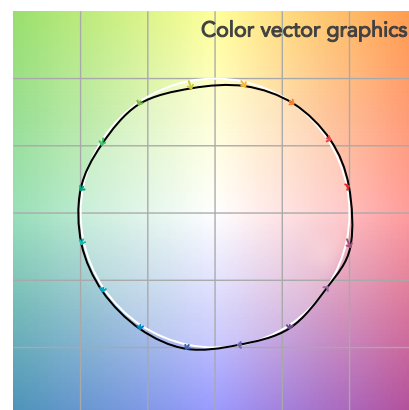
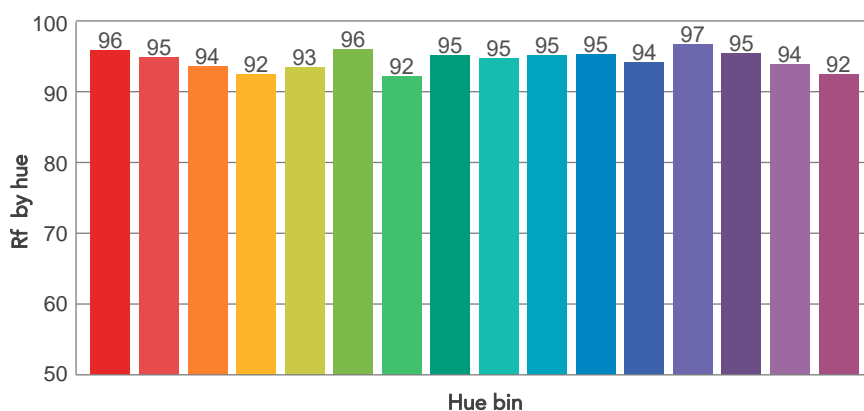
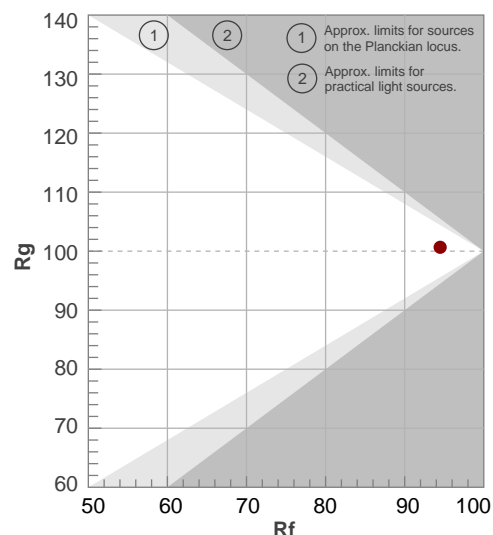
**Rf 94,5**

Fidelity index Rf

**Rg 100,7**

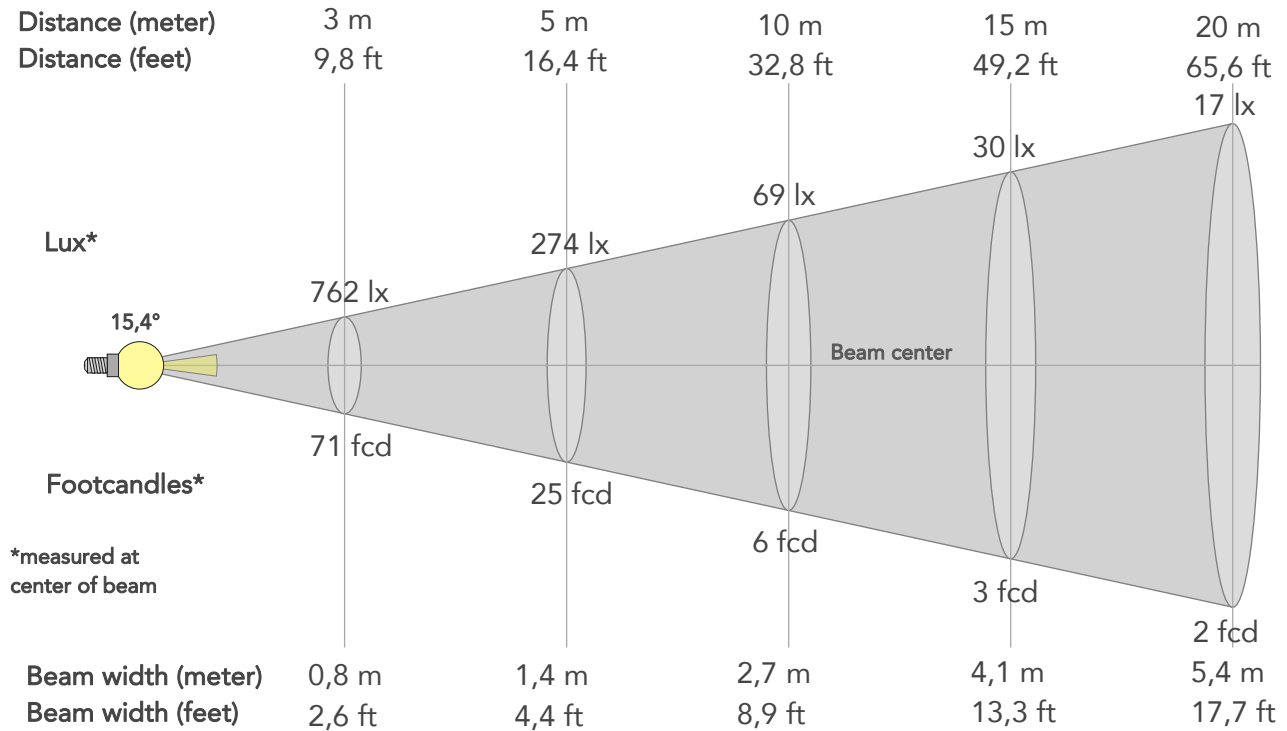
Gammut index

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



# BEAM DETAILS

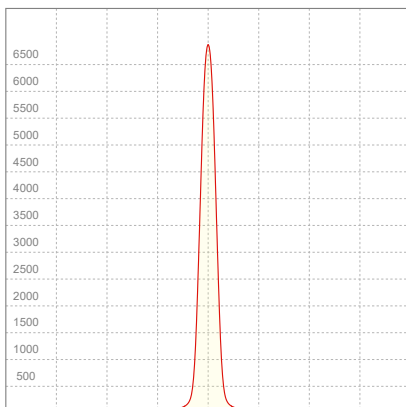
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	25,8°	36,7°	97,2%	94,5%



## 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	6860lx	1715lx	762lx	429lx	274lx	122lx	69lx	30lx	17lx	11lx	8lx	4lx	3lx
Footcand.	637fcd	159fcd	71fcd	40fcd	25fcd	11fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,6ft	8,9ft	13,3ft	17,7ft	22,2ft	26,6ft	35,5ft	44,3ft

## LINEAR DISTRIBUTION DIAGRAM



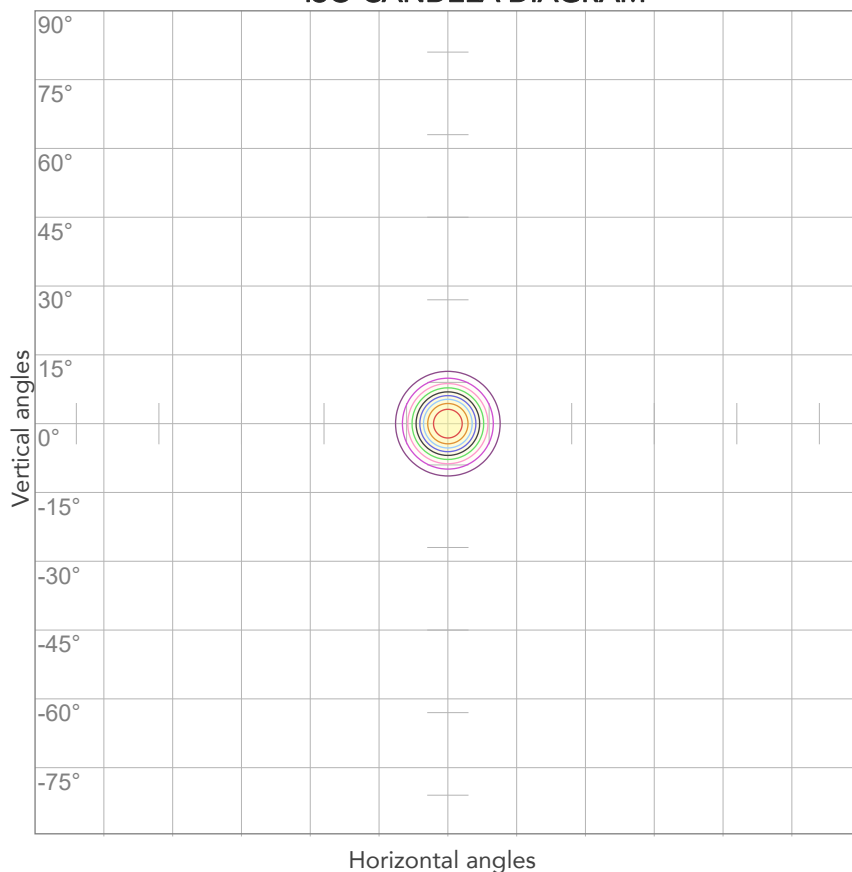
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	0,128A	15,6W	0,54	41lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



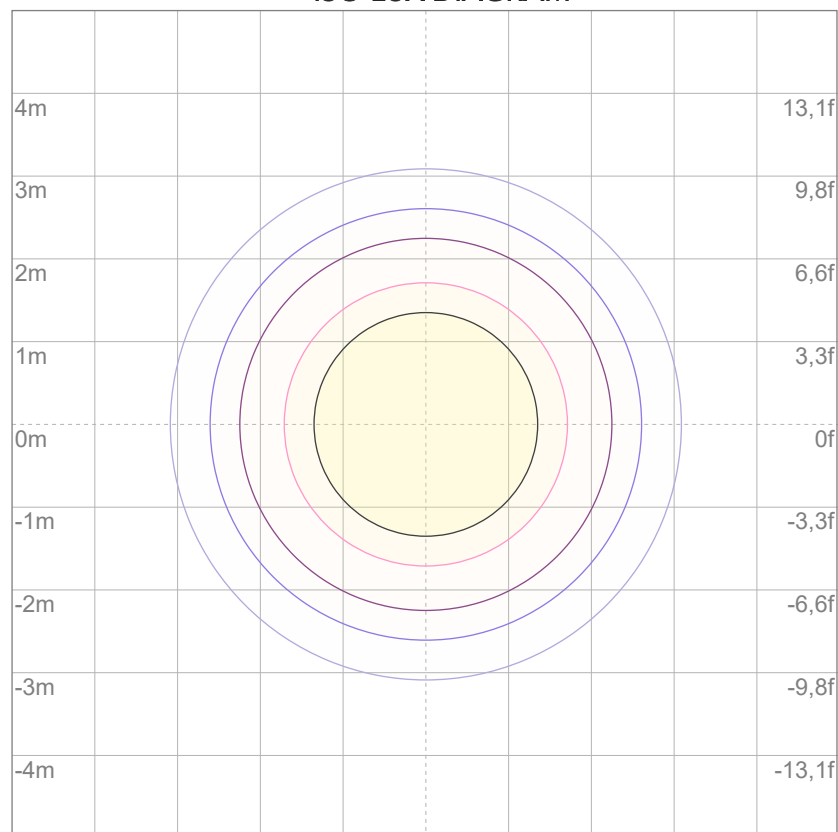
10%	686 cd
20%	1372 cd
30%	2058 cd
40%	2744 cd
50%	3430 cd
60%	4116 cd
70%	4802 cd
80%	5488 cd

### Conditions:

Number of c-planes: 2

Candela at center: 6860 cd

## ISO LUX DIAGRAM



3%	2,06 lx
5%	3,43 lx
10%	6,86 lx
30%	20,6 lx
50%	34,3 lx

### Conditions:

Number of c-planes: 2

Lux at center: 68,6 lx

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



Total lumen output:

735 lm

Peak candela output:

7952 cd

Light quality:

CRI: 95,3

Color temperature:

4064 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

15°

Target:

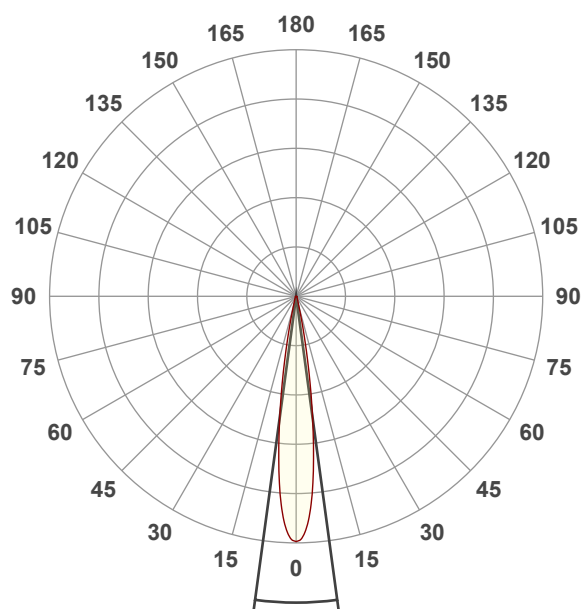
4000K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 11:11:38

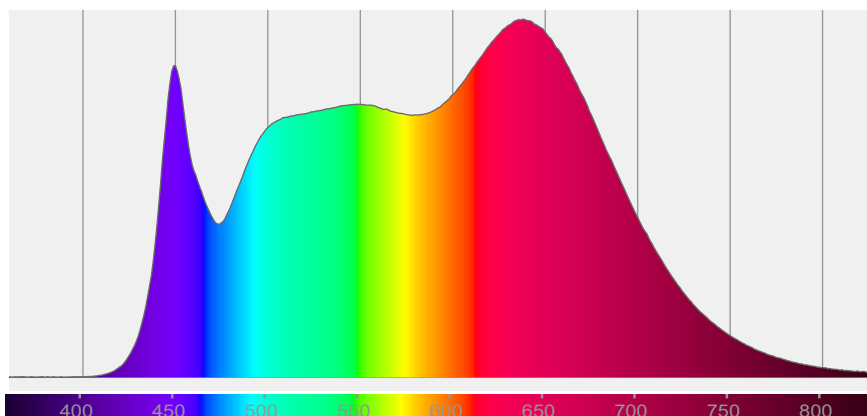


Beam angle 50%: 15,4°

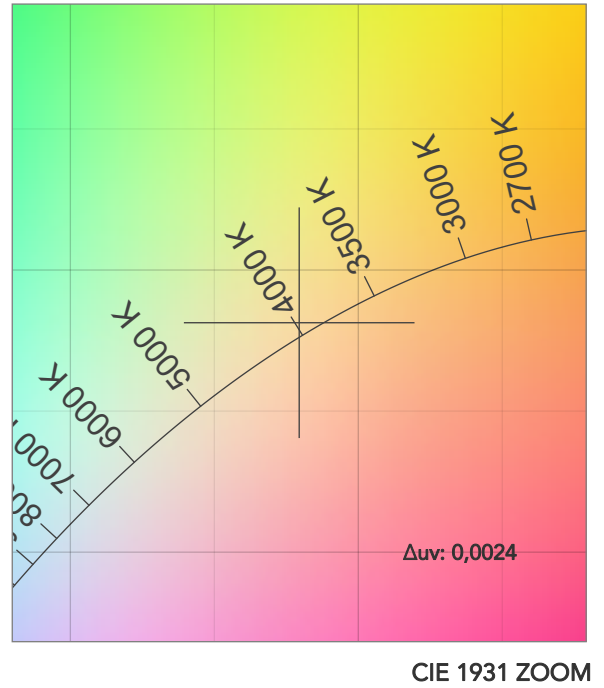
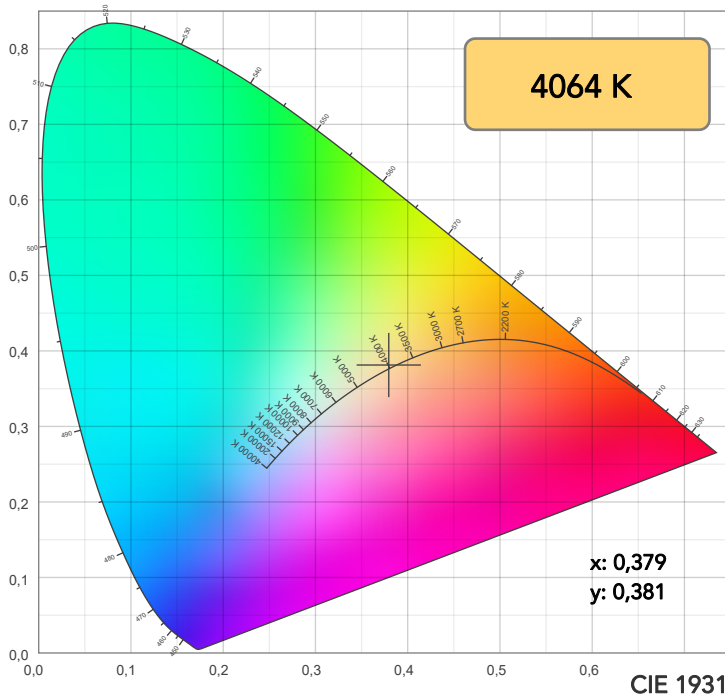
Field angle 10%: 25,8°

Cut off angle 2.5%: 36,7°

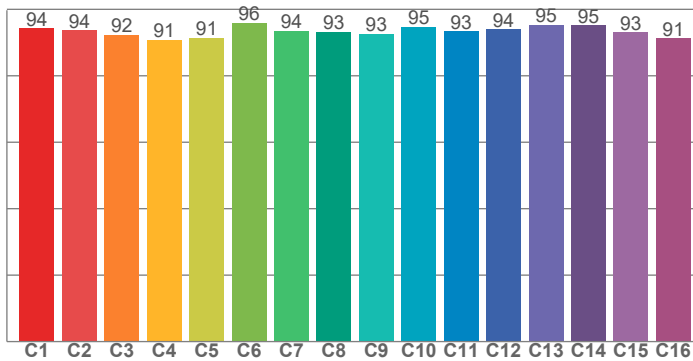
**Spectra**



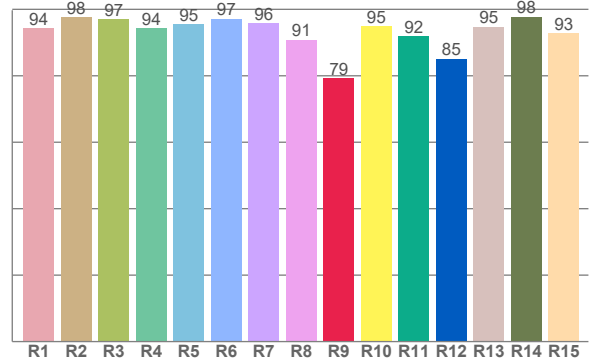
# COLOR DETAILS



**TM30: 93,2**



**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
94,2	97,5	97,0	94,2	95,4	97,2	95,7	90,8	79,2	95,0	91,8	85,2	94,7	97,8	92,8

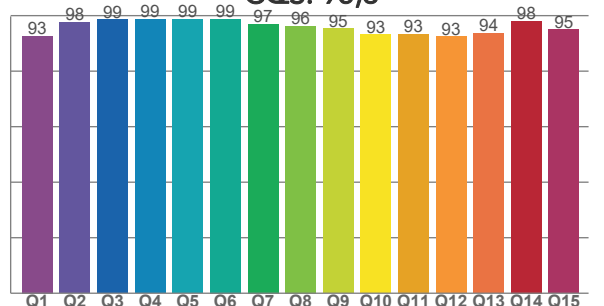
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	93,7	92,3	90,9	91,4	95,8	93,6	93,2	92,6	94,7	93,3	94,0	95,4	95,1	93,1	91,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,7	97,6	98,6	98,7	98,7	98,7	97,0	96,2	95,4	93,2	93,4	92,5	93,7	98,1	95,0

**CQS: 95,3**



## COLOR PARAMETERS

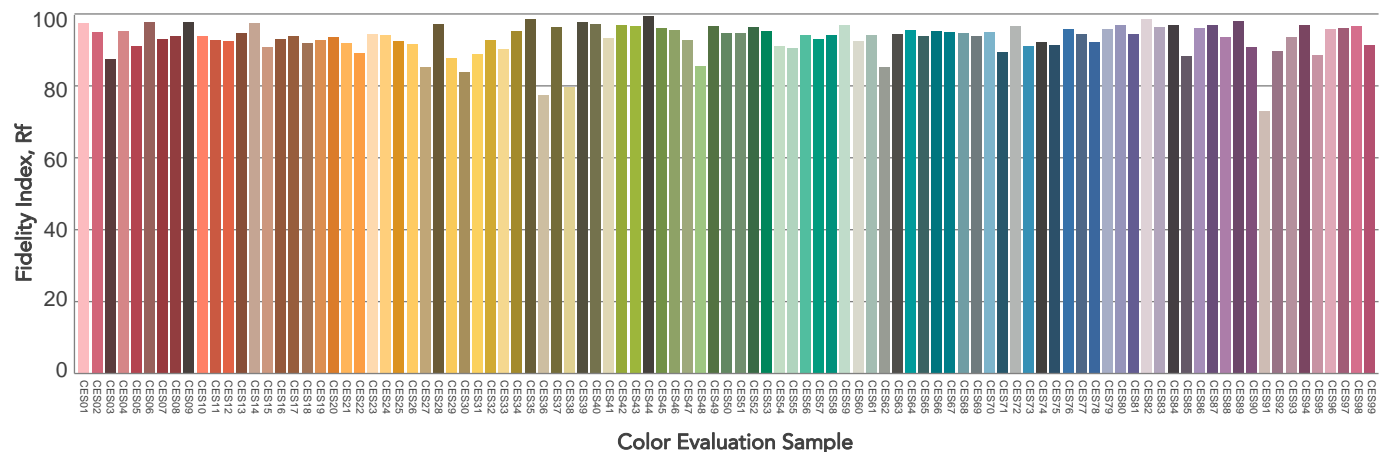
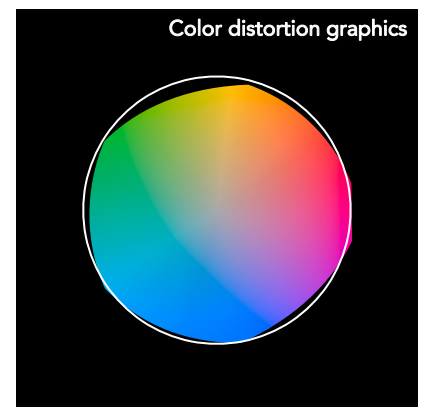
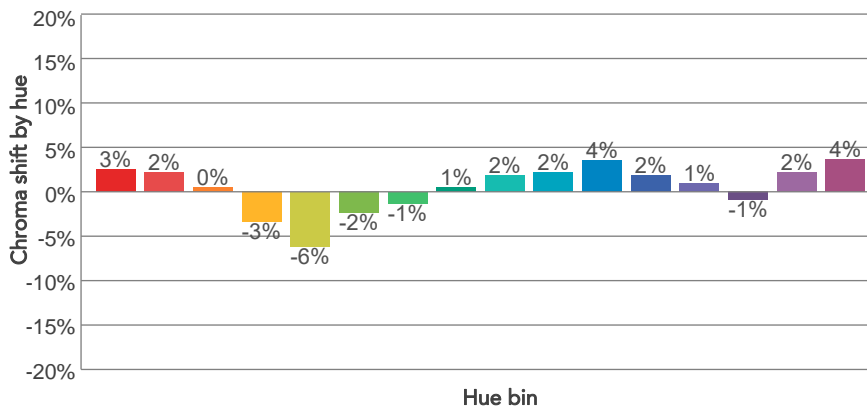
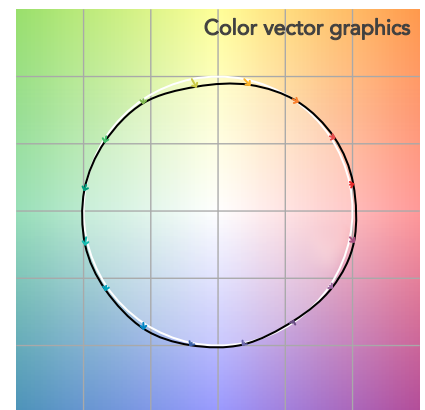
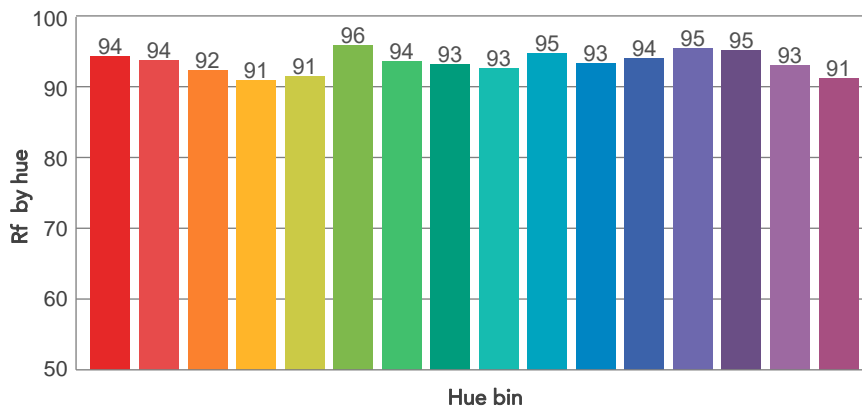
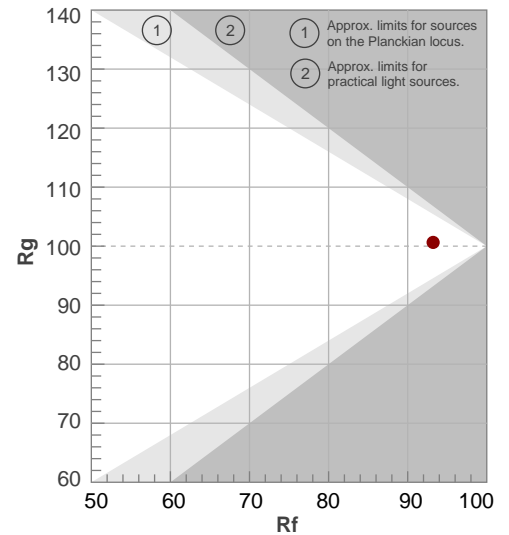
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
4064 K	95,3	79,2	93,2	100,6	95,3	99	0,379	0,381	0,0024

# TM30 DETAILS

**Rf 93,2**  
Fidelity index Rf

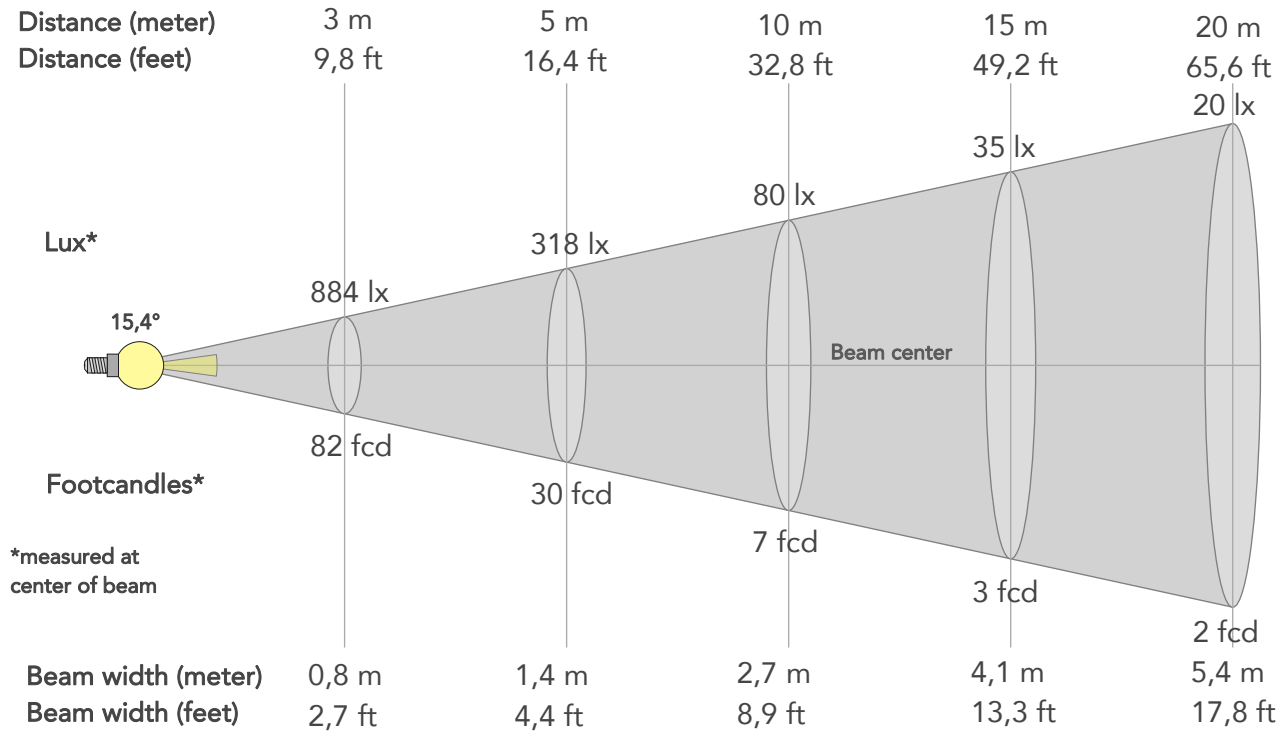
**Rg 100,6**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	3%	0%
2	94	2%	-3%
3	92	0%	-4%
4	91	-3%	-5%
5	91	-6%	-2%
6	96	-2%	2%
7	94	-1%	4%
8	93	1%	4%
9	93	2%	5%
10	95	2%	2%
11	93	4%	3%
12	94	2%	-1%
13	95	1%	-1%
14	95	-1%	1%
15	93	2%	0%
16	91	4%	-3%



# BEAM DETAILS

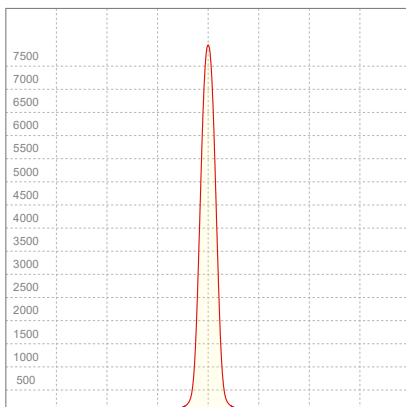
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	25,8°	36,7°	97,2%	94,6%



## 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	7952lx	1988lx	884lx	497lx	318lx	141lx	80lx	35lx	20lx	13lx	9lx	5lx	3lx
Footcand.	739fcd	185fcd	82fcd	46fcd	30fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,7ft	3,5ft	4,4ft	6,7ft	8,9ft	13,3ft	17,8ft	22,2ft	26,6ft	35,5ft	44,4ft

## LINEAR DISTRIBUTION DIAGRAM

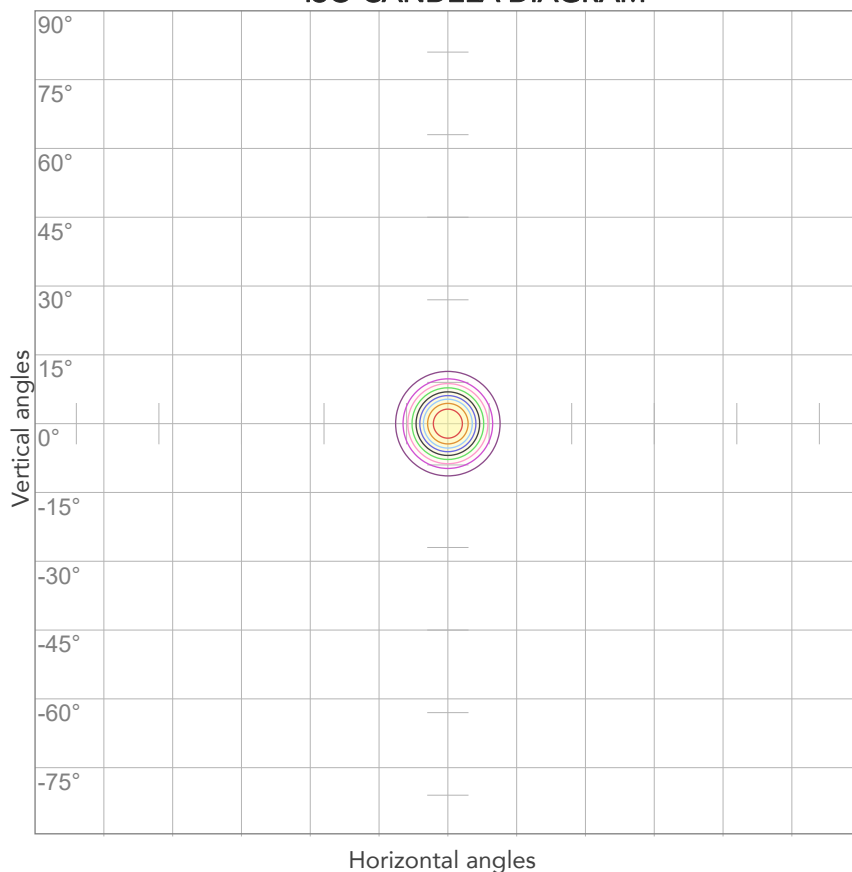


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	0,134A	16,6W	0,54	44lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



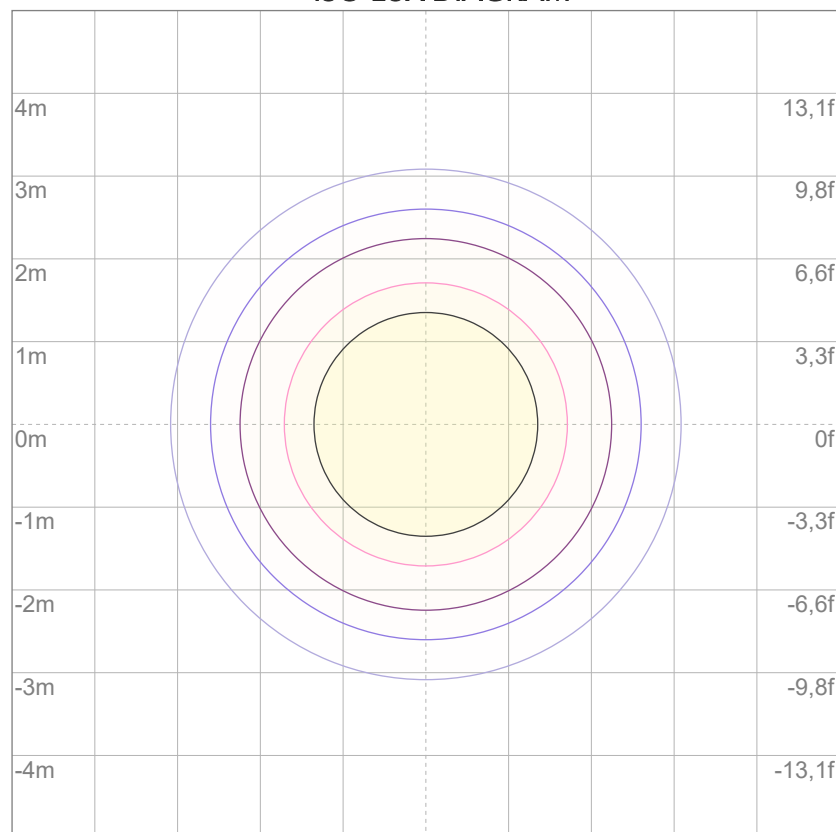
10%	795 cd
20%	1590 cd
30%	2386 cd
40%	3181 cd
50%	3976 cd
60%	4771 cd
70%	5567 cd
80%	6362 cd

### Conditions:

Number of c-planes: 2

Candela at center: 7952 cd

## ISO LUX DIAGRAM



3%	2,39 lx
5%	3,98 lx
10%	7,95 lx
30%	23,9 lx
50%	39,8 lx

### Conditions:

Number of c-planes: 2

Lux at center: 79,5 lx

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



Total lumen output:

811 lm

Peak candela output:

8868 cd

Light quality:

CRI: 97,8

Color temperature:

5620 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

15°

Target:

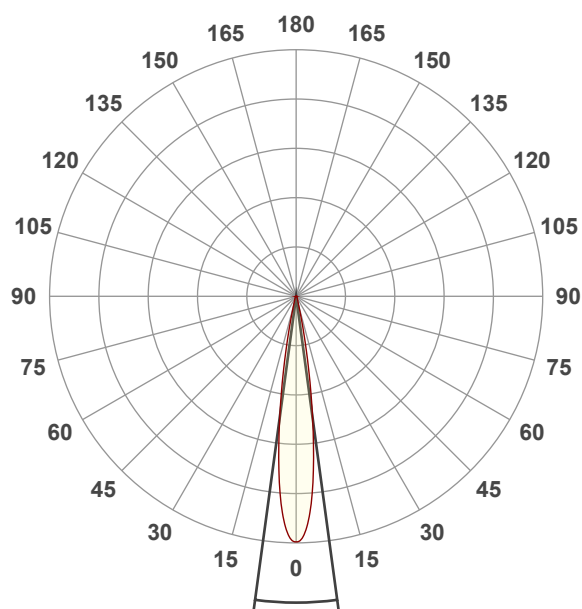
5600K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 11:30:00

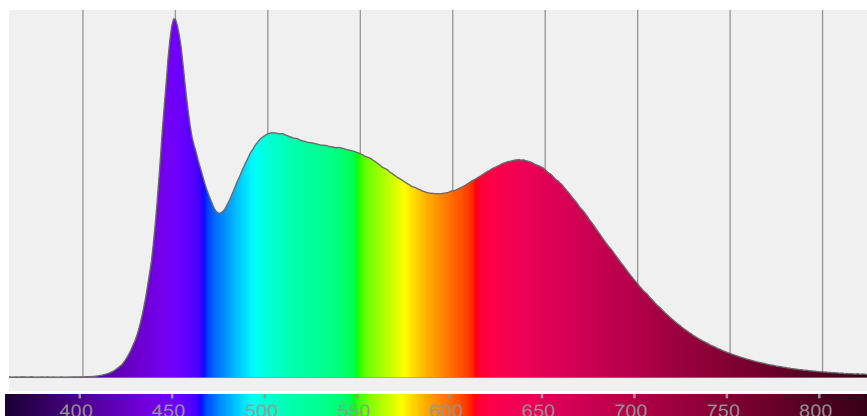


Beam angle 50%: 15,4°

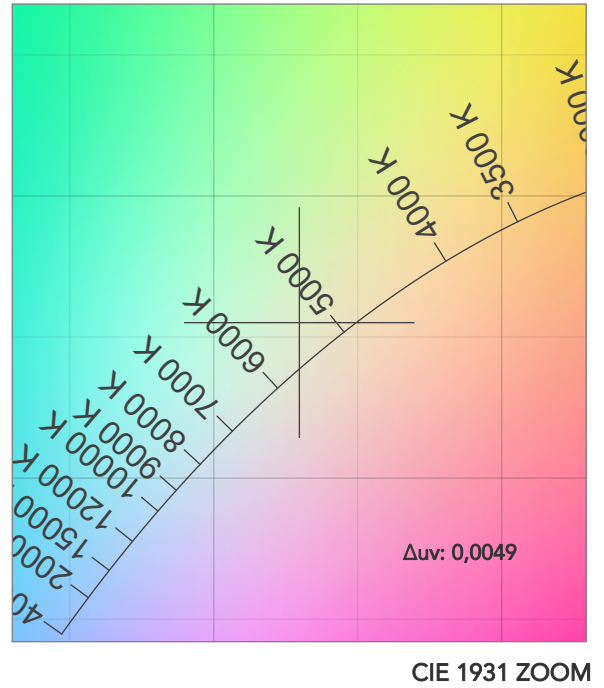
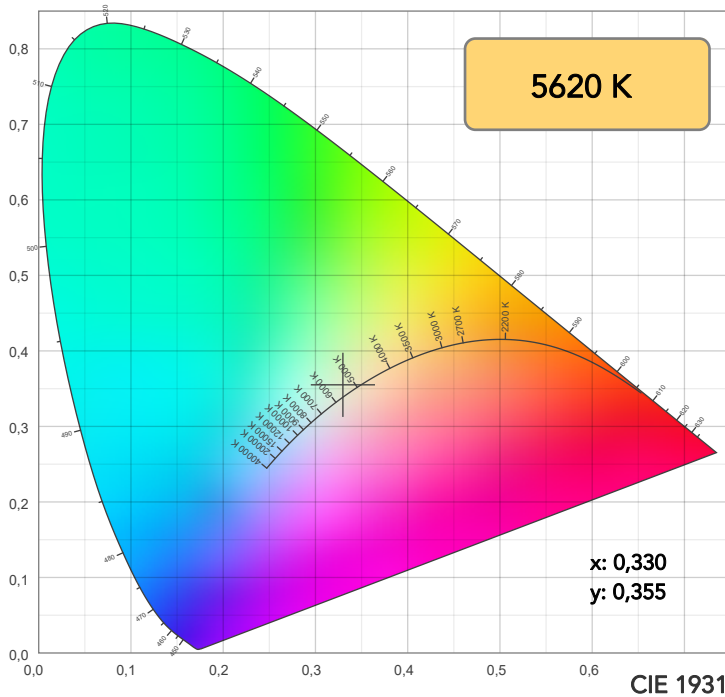
Field angle 10%: 25,8°

Cut off angle 2.5%: 36,7°

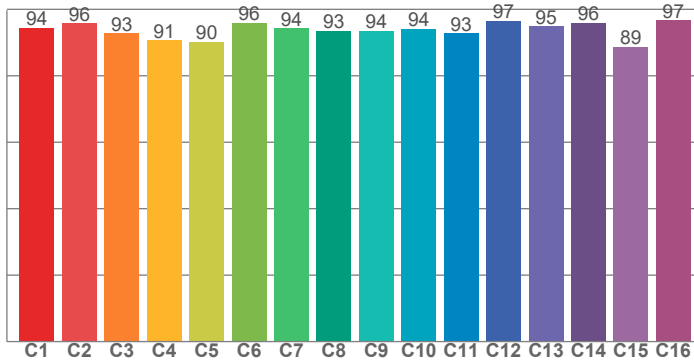
**Spectra**



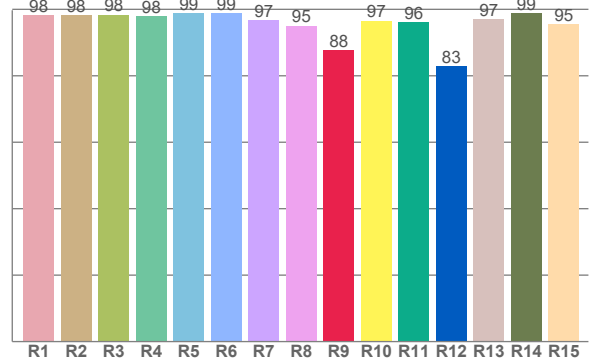
# COLOR DETAILS



TM30: 93,4



CRI: 97,8 (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
98,3	98,2	98,4	97,8	98,8	98,8	96,7	95,0	87,8	96,6	96,1	82,8	96,9	98,9	95,4

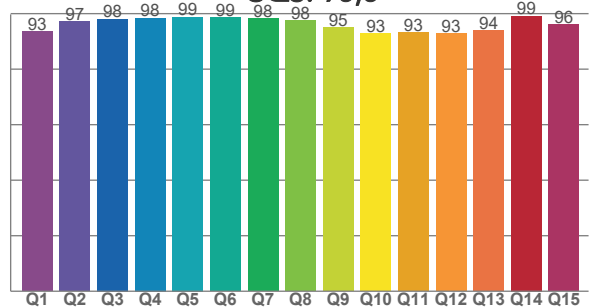
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	95,8	92,7	90,7	90,3	96,0	94,3	93,5	93,6	94,2	92,8	96,6	94,8	96,0	88,7	96,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,5	97,1	98,1	98,4	98,7	98,6	98,2	97,5	95,0	92,8	93,2	92,8	93,9	99,1	96,1

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
5620 K	97,8	87,8	93,4	99,6	95,5	97	0,330	0,355	0,0049



## TM30 DETAILS

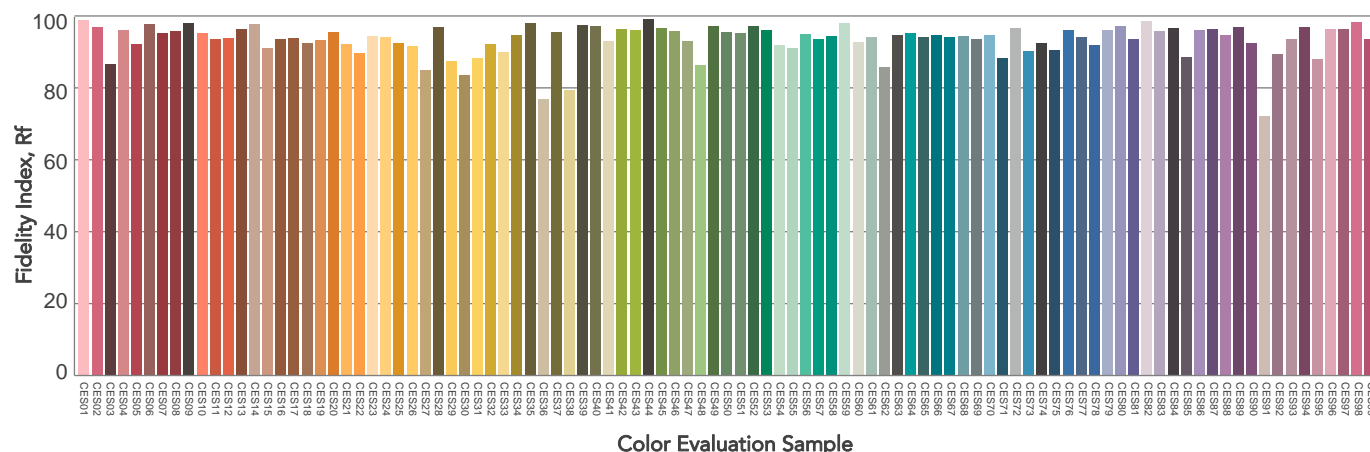
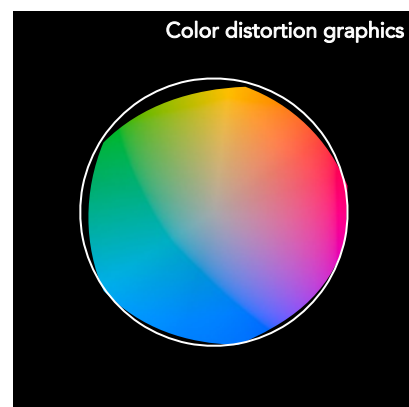
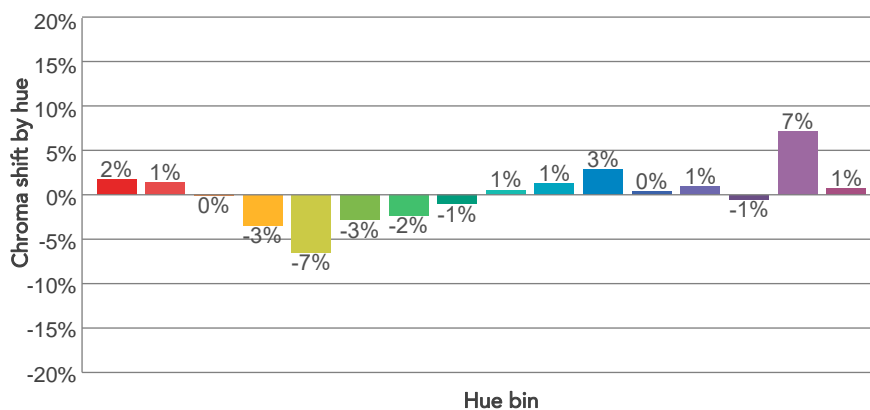
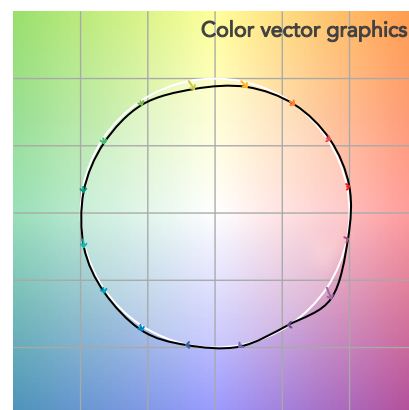
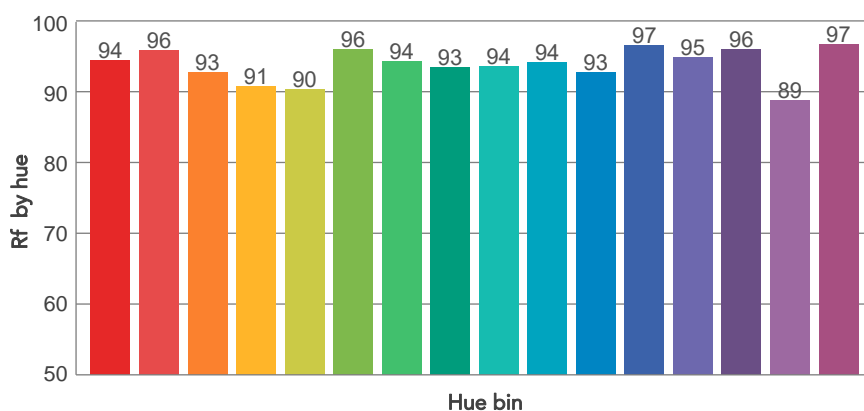
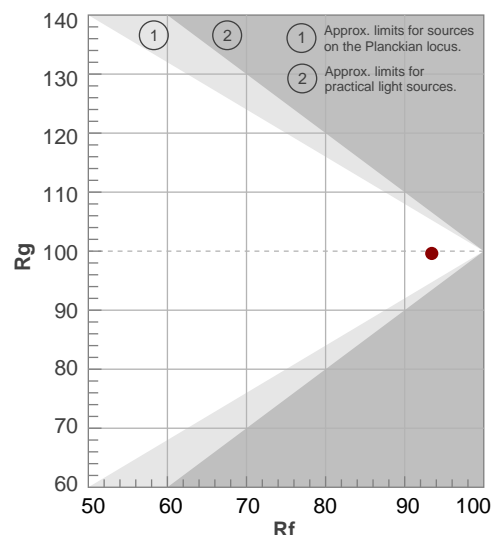
**Rf 93,4**

Fidelity index Rf

**Rg 99,6**

Gammut index

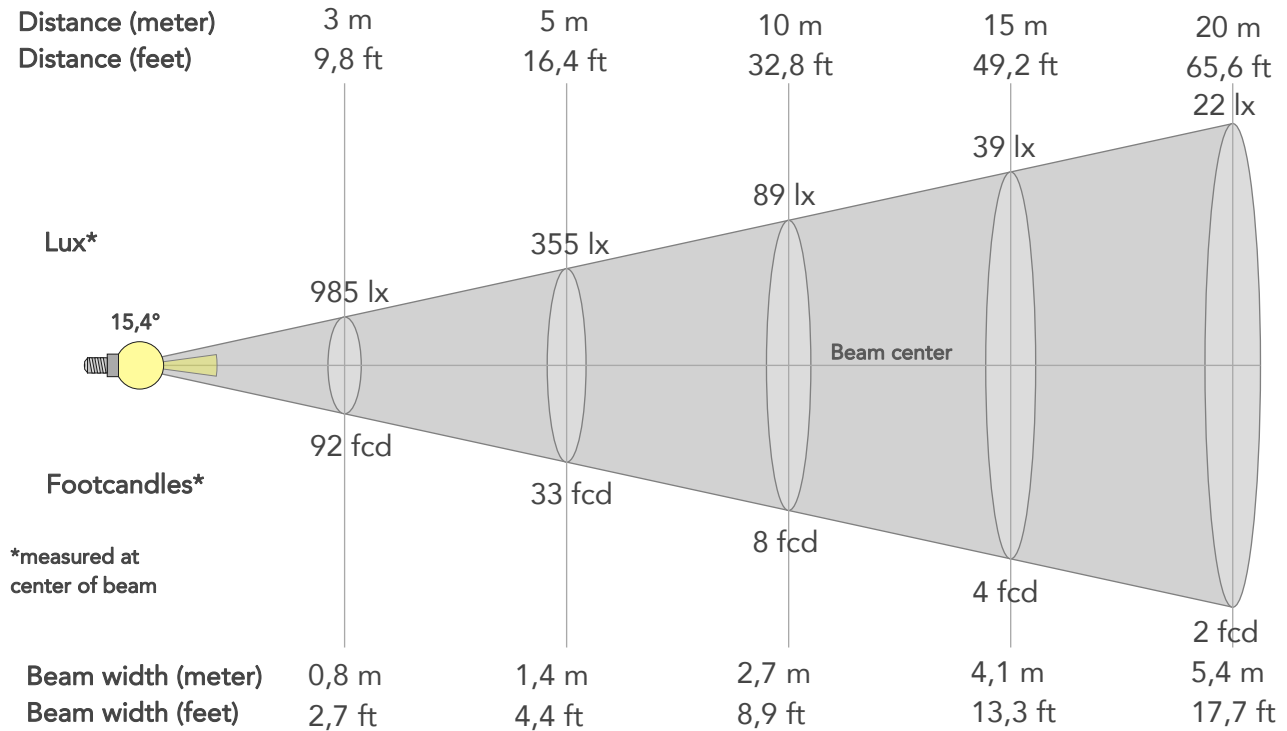
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	2%	0%
2	96	1%	-2%
3	93	0%	-4%
4	91	-3%	-5%
5	90	-7%	-3%
6	96	-3%	0%
7	94	-2%	3%
8	93	-1%	4%
9	94	1%	6%
10	94	1%	3%
11	93	3%	3%
12	97	0%	-2%
13	95	1%	-2%
14	96	-1%	-1%
15	89	7%	-5%
16	97	1%	0%



# BEAM DETAILS



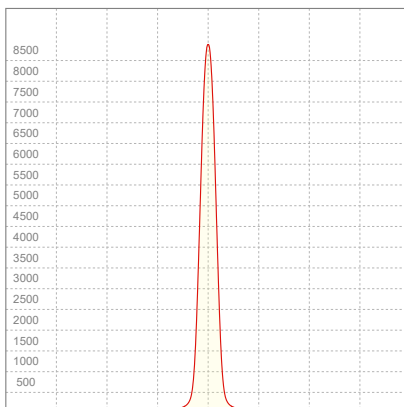
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	25,8°	36,7°	98,0%	95,4%



## 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	8868lx	2217lx	985lx	554lx	355lx	158lx	89lx	39lx	22lx	14lx	10lx	6lx	4lx
Footcand.	824fcd	206fcd	92fcd	51fcd	33fcd	15fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,7ft	3,5ft	4,4ft	6,7ft	8,9ft	13,3ft	17,7ft	22,2ft	26,6ft	35,5ft	44,4ft

## LINEAR DISTRIBUTION DIAGRAM

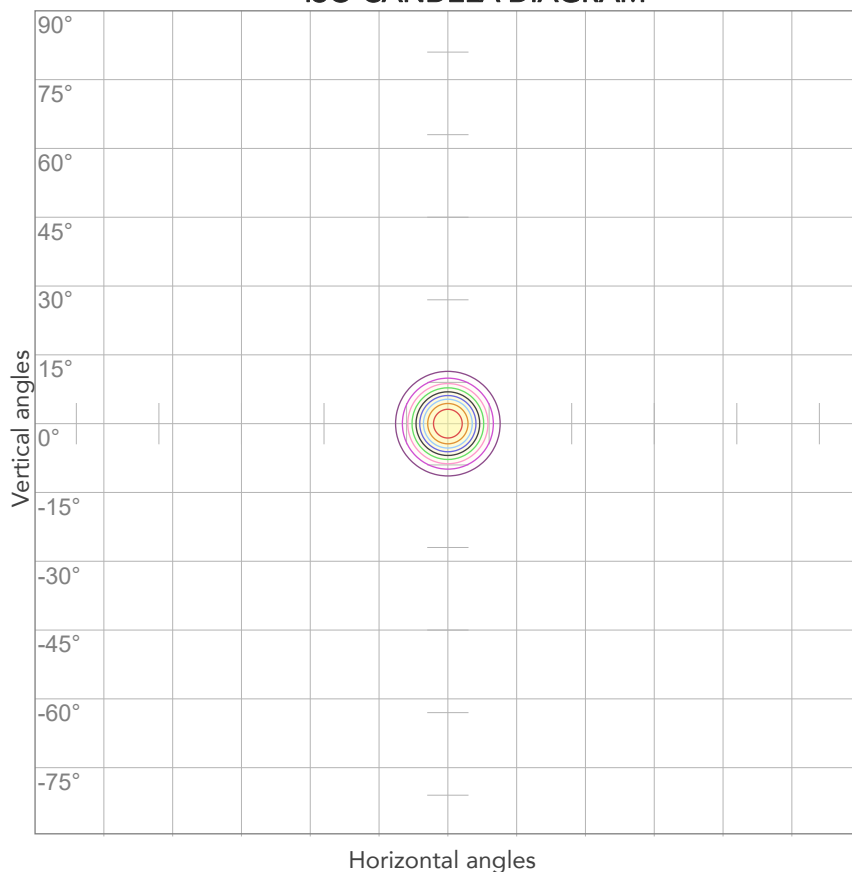


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,138A	16,6W	0,53	49lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



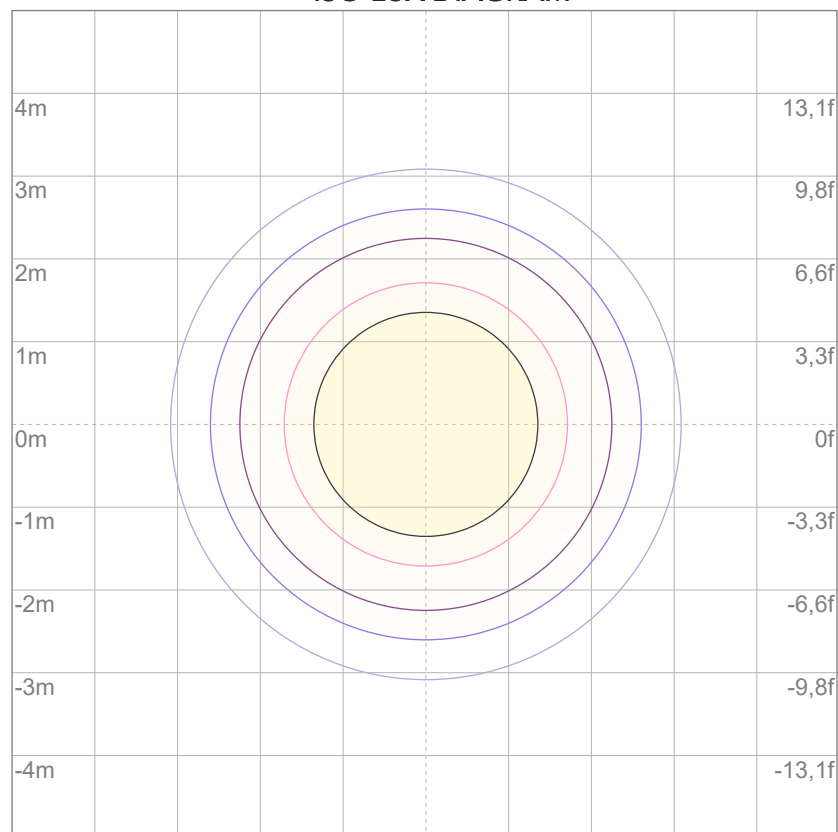
10%	887 cd
20%	1774 cd
30%	2660 cd
40%	3547 cd
50%	4434 cd
60%	5321 cd
70%	6208 cd
80%	7095 cd

### Conditions:

Number of c-planes: 2

Candela at center: 8868 cd

## ISO LUX DIAGRAM



3%	2,66 lx
5%	4,43 lx
10%	8,87 lx
30%	26,6 lx
50%	44,3 lx

### Conditions:

Number of c-planes: 2

Lux at center: 88,7 lx

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



Total lumen output:

763 lm

Peak candela output:

8347 cd

Light quality:

CRI: 97,7

Color temperature:

6019 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

15°

Target:

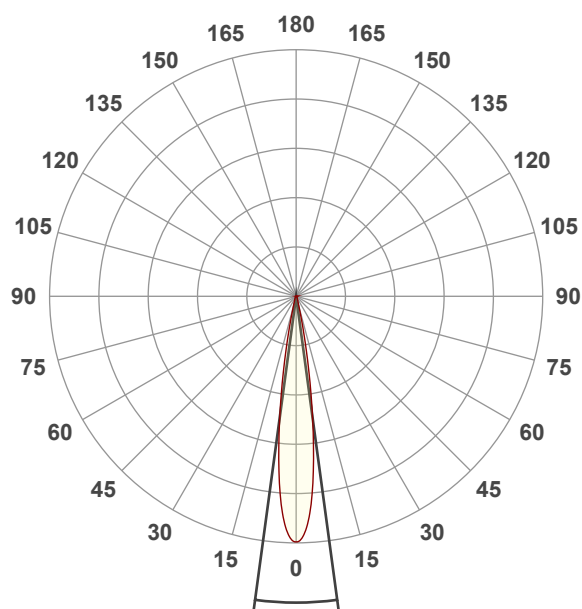
6000K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 11:38:11

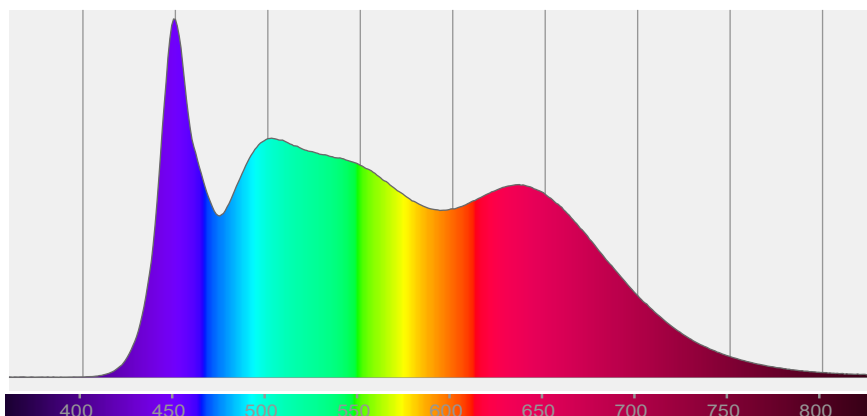


Beam angle 50%: 15,4°

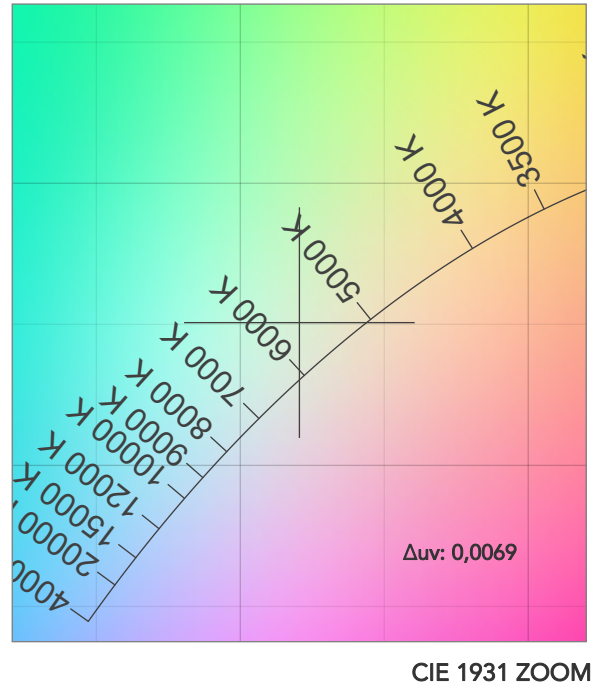
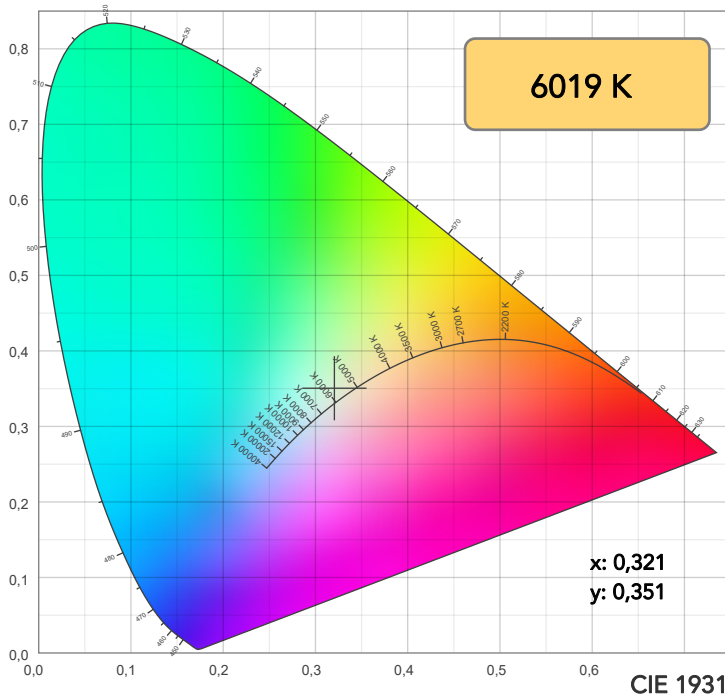
Field angle 10%: 25,8°

Cut off angle 2.5%: 36,7°

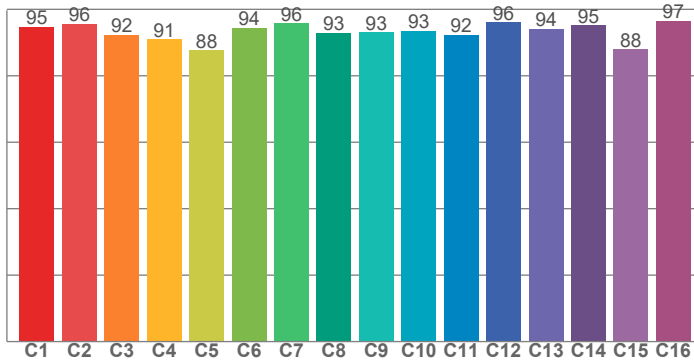
**Spectra**



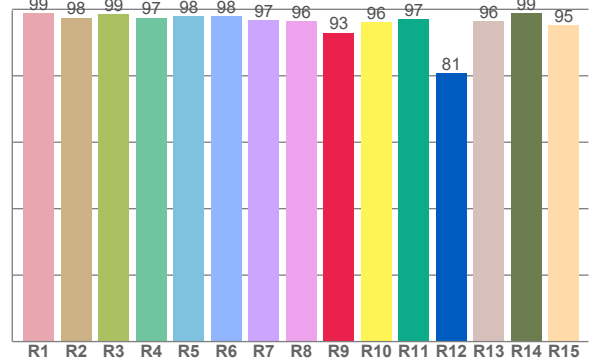
## COLOR DETAILS



TM30: 92,9



CRI: 97,7 (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
98,7	97,5	98,6	97,5	98,0	97,9	96,6	96,5	93,0	96,2	97,0	80,7	96,4	98,9	95,2

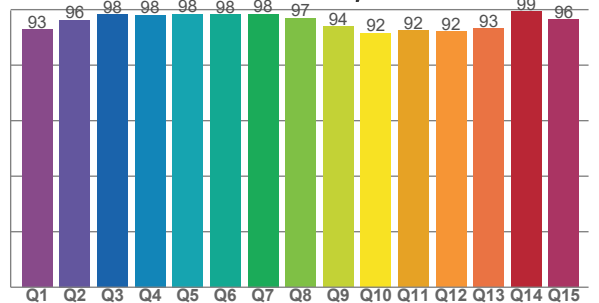
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	95,6	92,4	91,0	87,6	94,4	95,7	92,9	93,0	93,5	92,3	96,1	94,2	95,1	88,0	96,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,8	96,3	98,2	98,1	98,4	98,2	98,4	96,9	93,9	91,7	92,5	92,1	93,2	99,3	96,4

CQS: 95,0



## COLOR PARAMETERS

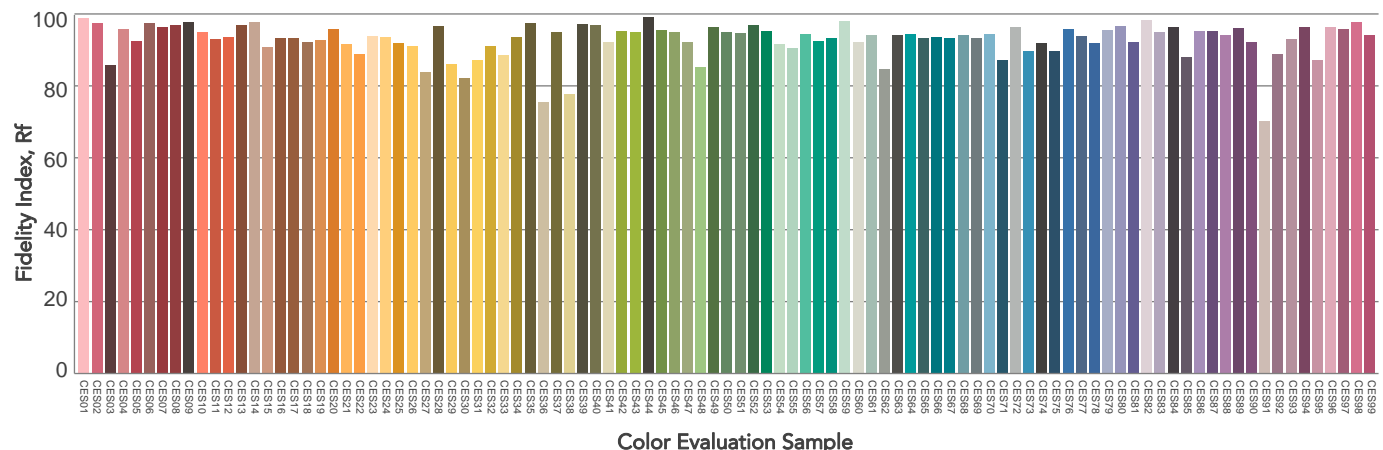
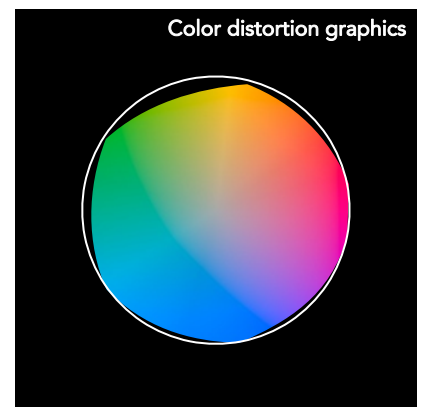
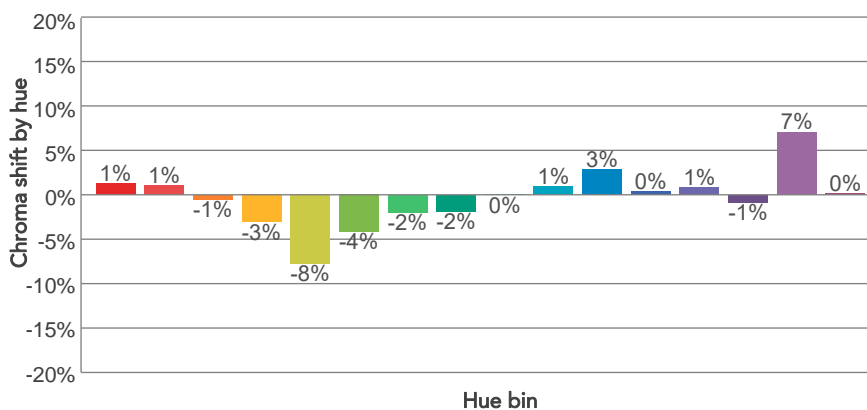
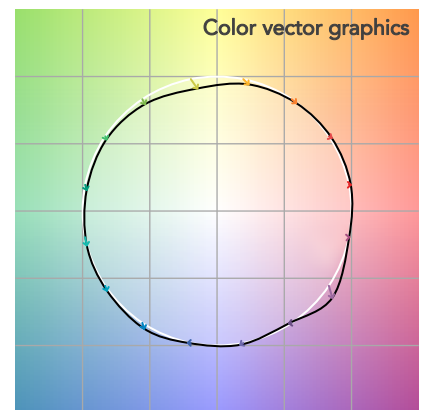
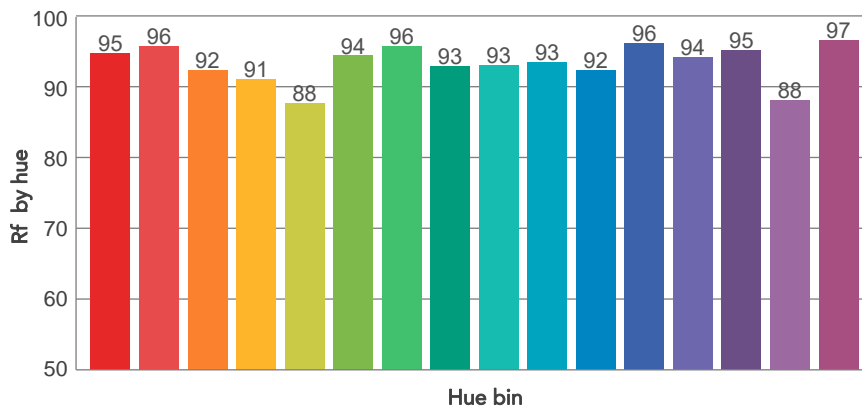
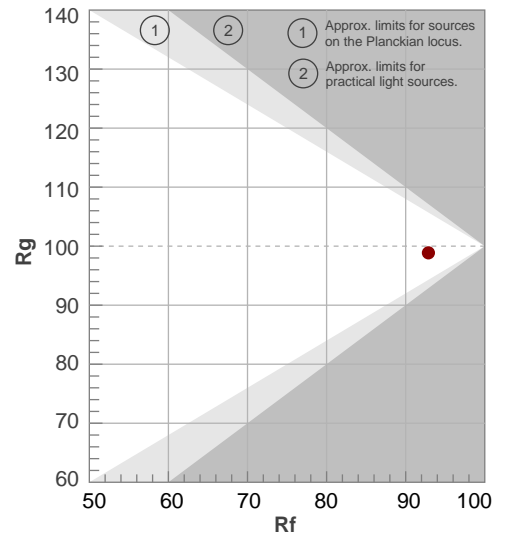
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
6019 K	97,7	93,0	92,9	98,9	95,0	98	0,321	0,351	0,0069

# TM30 DETAILS

**Rf 92,9**  
Fidelity index Rf

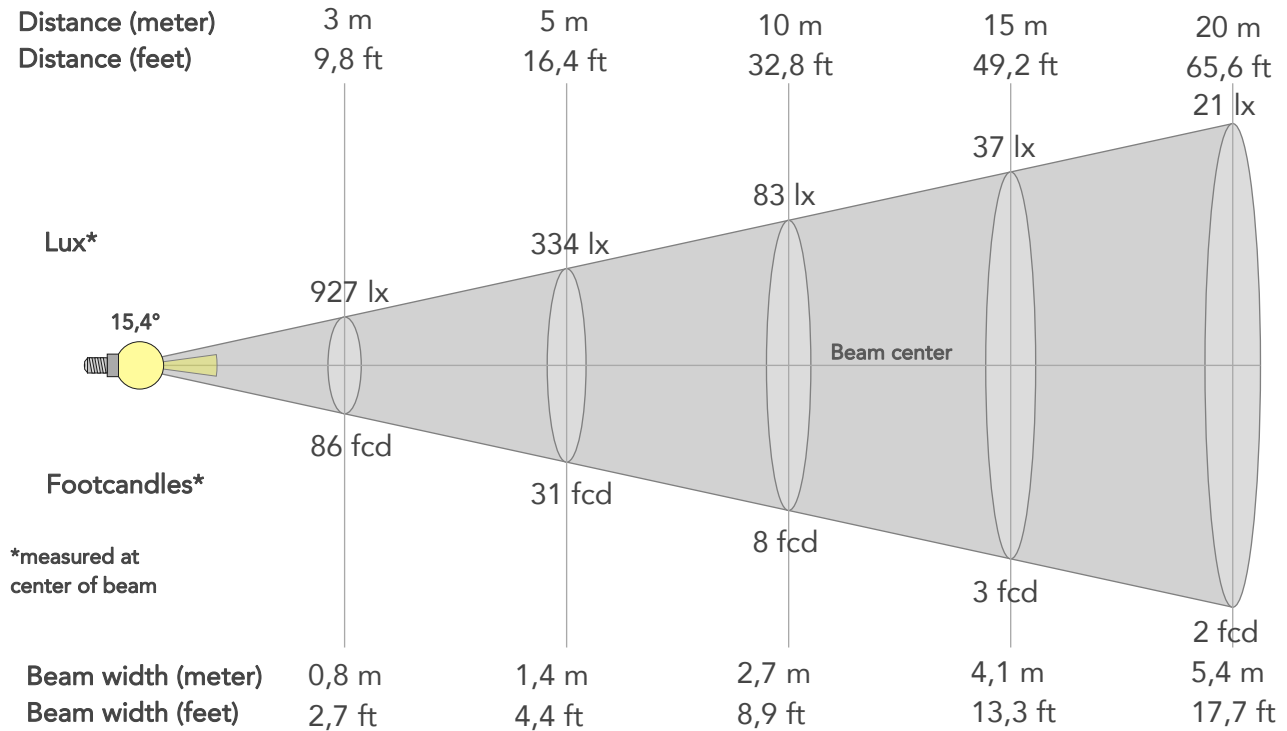
**Rg 98,9**  
Gammut index

		Graphic shifts (%)	
Hue Bin	R <sub>f</sub>	Chroma	Hue
1	95	1%	0%
2	96	1%	-2%
3	92	-1%	-4%
4	91	-3%	-5%
5	88	-8%	-3%
6	94	-4%	0%
7	96	-2%	1%
8	93	-2%	3%
9	93	0%	6%
10	93	1%	4%
11	92	3%	4%
12	96	0%	-2%
13	94	1%	-2%
14	95	-1%	-2%
15	88	7%	-6%
16	97	0%	0%



# BEAM DETAILS

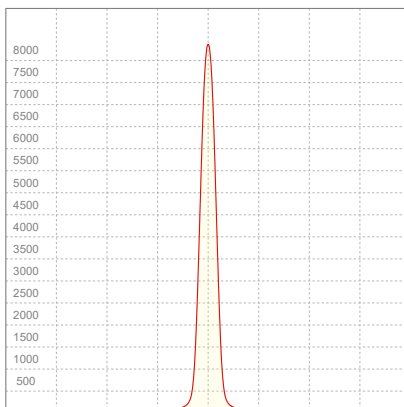
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	25,8°	36,7°	97,9%	95,4%



## 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	8347lx	2087lx	927lx	522lx	334lx	148lx	83lx	37lx	21lx	13lx	9lx	5lx	3lx
Footcand.	775fcd	194fcd	86fcd	48fcd	31fcd	14fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,7ft	3,5ft	4,4ft	6,7ft	8,9ft	13,3ft	17,7ft	22,2ft	26,6ft	35,5ft	44,4ft

## LINEAR DISTRIBUTION DIAGRAM

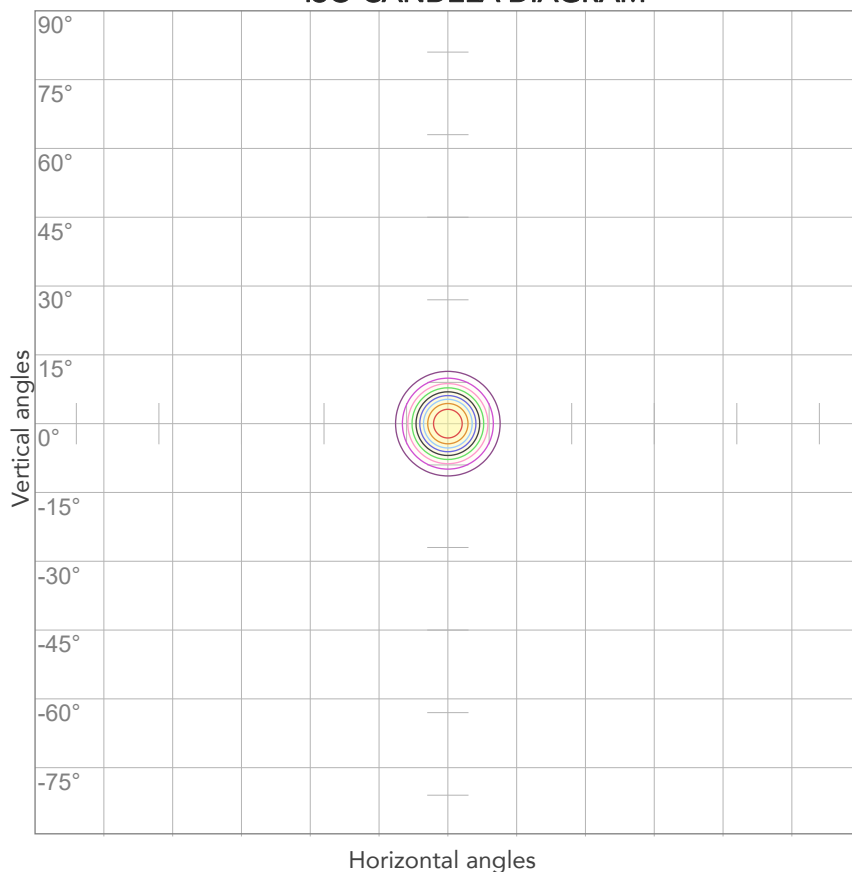


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	0,124A	15,2W	0,54	50lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



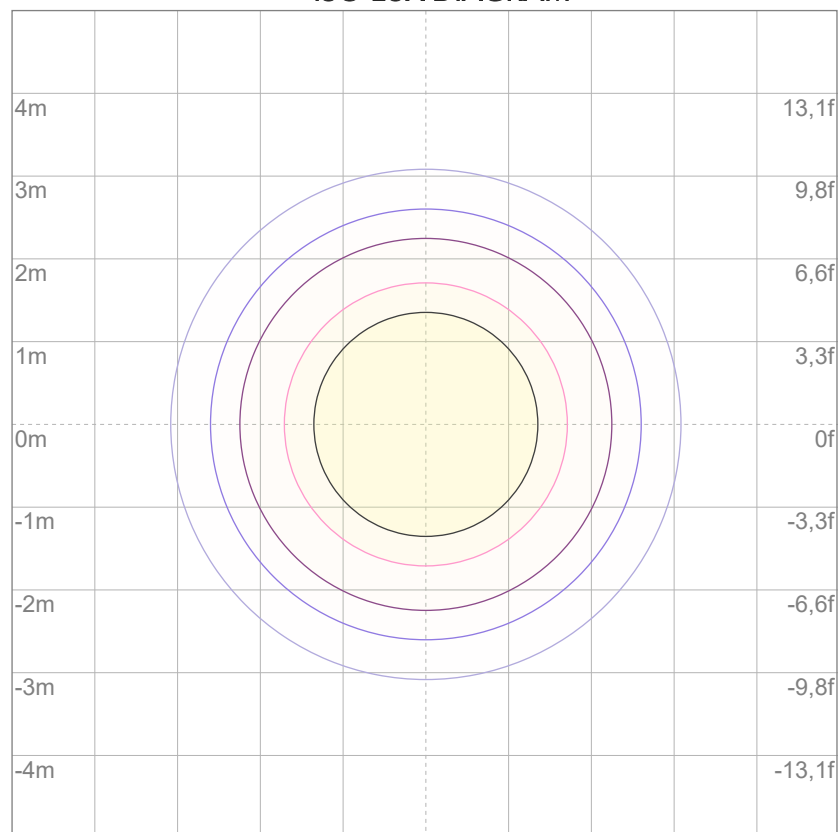
10%	835 cd
20%	1669 cd
30%	2504 cd
40%	3339 cd
50%	4173 cd
60%	5008 cd
70%	5843 cd
80%	6677 cd

### Conditions:

Number of c-planes: 2

Candela at center: 8347 cd

## ISO LUX DIAGRAM



3%	2,50 lx
5%	4,17 lx
10%	8,35 lx
30%	25,0 lx
50%	41,7 lx

### Conditions:

Number of c-planes: 2

Lux at center: 83,5 lx

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





Total lumen output:

706 lm

Peak candela output:

7688 cd

Light quality:

CRI: 96,6

Color temperature:

6530 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

15°

Target:

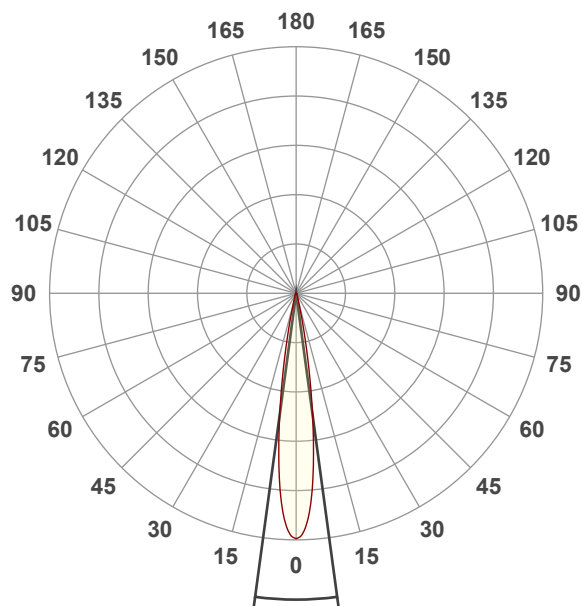
6500K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 11:39:58

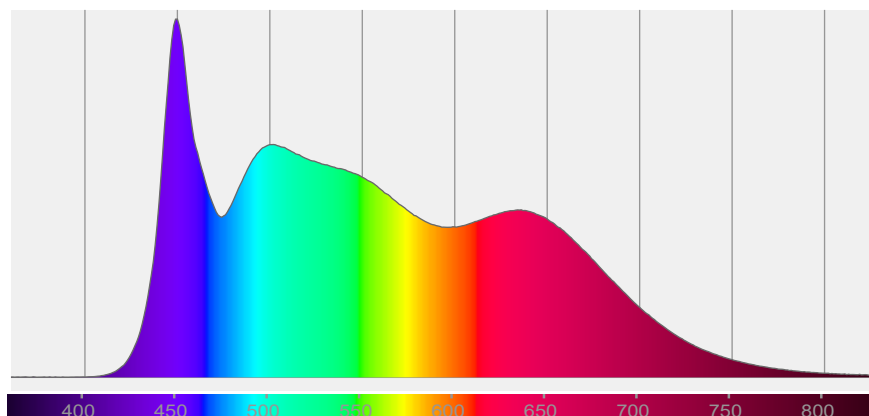


Beam angle 50%: 15,4°

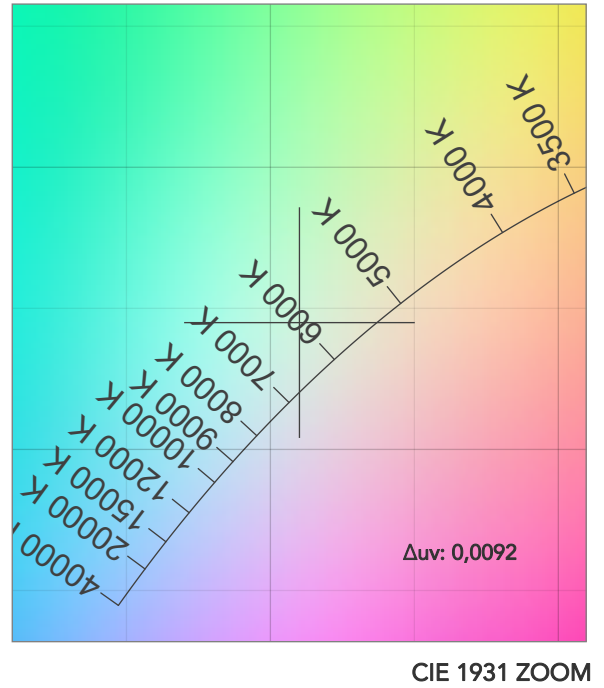
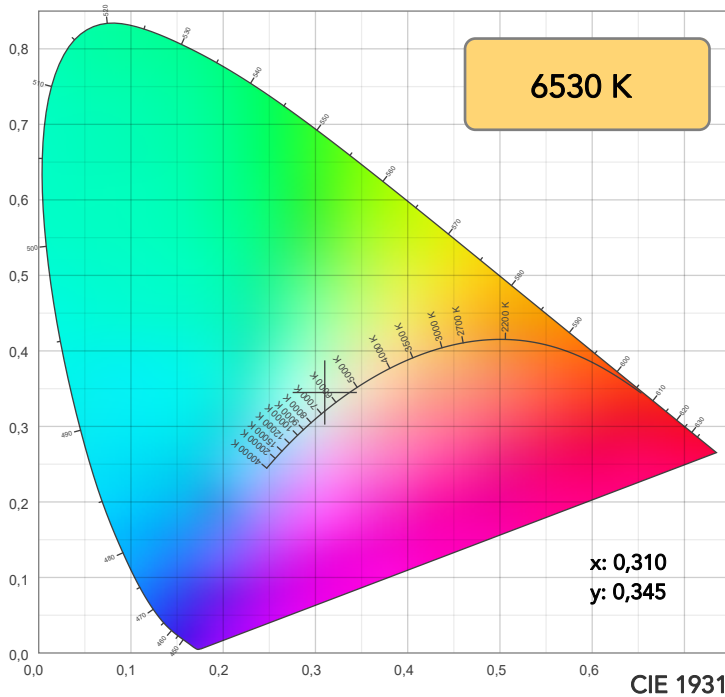
Field angle 10%: 25,8°

Cut off angle 2.5%: 36,6°

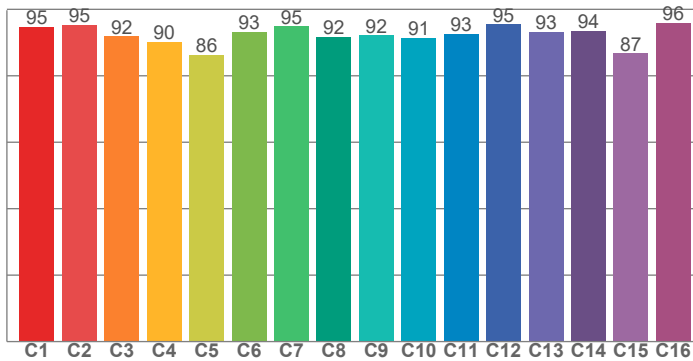
**Spectra**



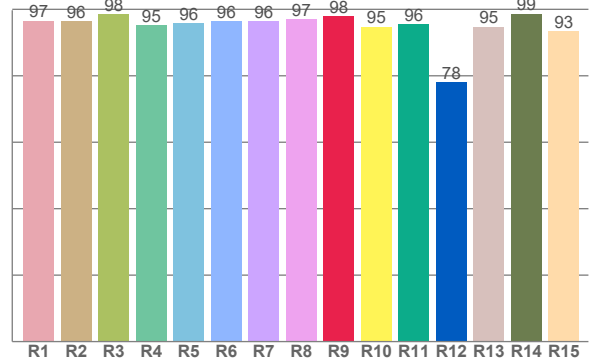
# COLOR DETAILS



TM30: 92,0



CRI: 96,6 (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
96,6	96,4	98,5	95,3	95,8	96,5	96,4	97,0	97,9	94,7	95,6	78,1	94,7	98,6	93,5

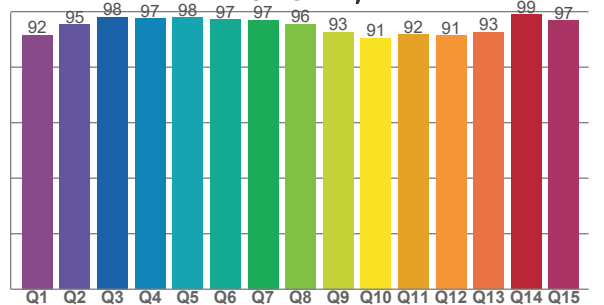
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	95,3	91,9	90,1	86,2	93,3	94,8	91,8	92,1	91,4	92,6	95,5	93,3	93,5	86,8	95,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,6	95,3	98,1	97,5	97,9	97,1	97,0	95,6	92,6	90,5	91,7	91,4	92,5	98,9	96,9

CQS: 94,2



## 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	$\Delta uv$
6530 K	96,6	97,9	92,0	97,4	94,2	98	0,310	0,345	0,0092

## TM30 DETAILS

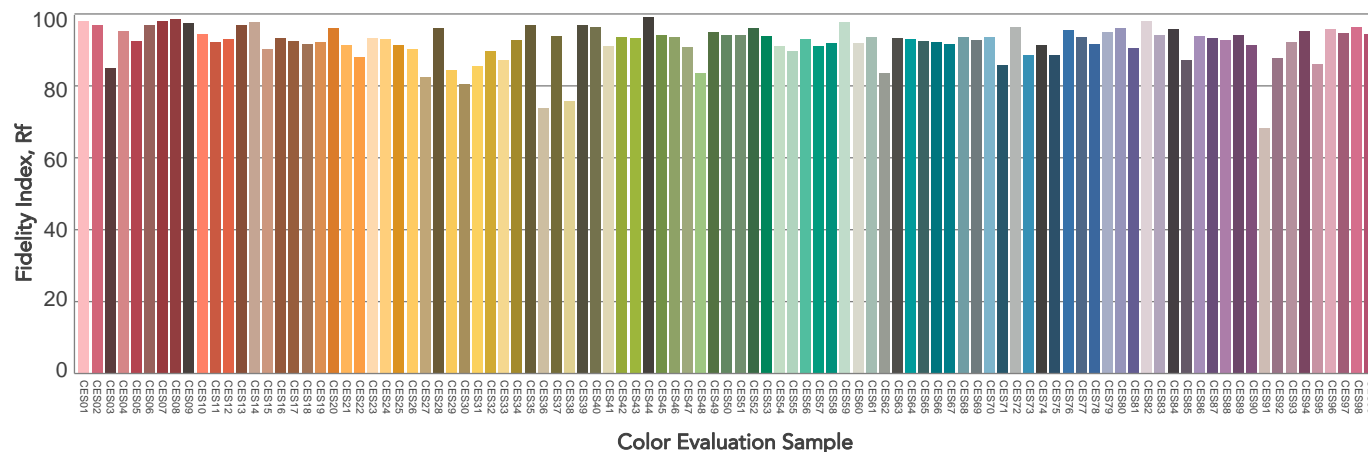
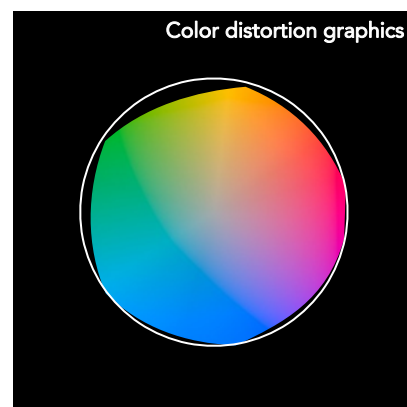
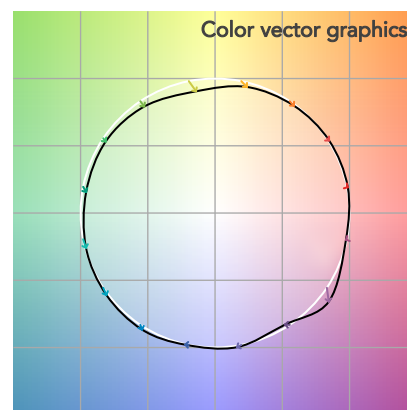
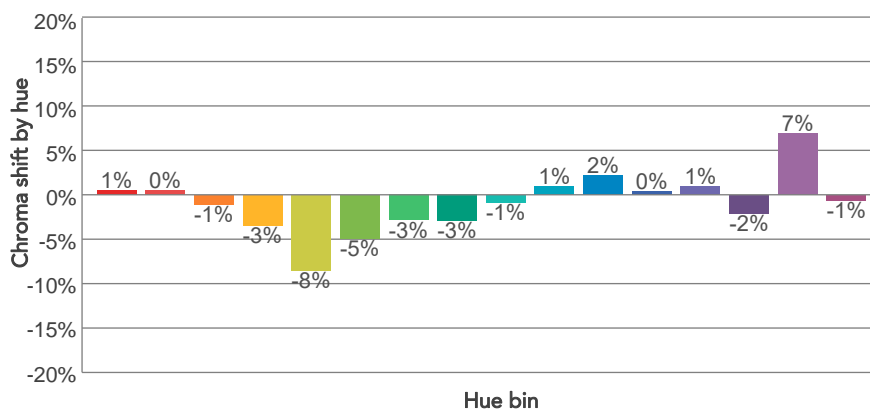
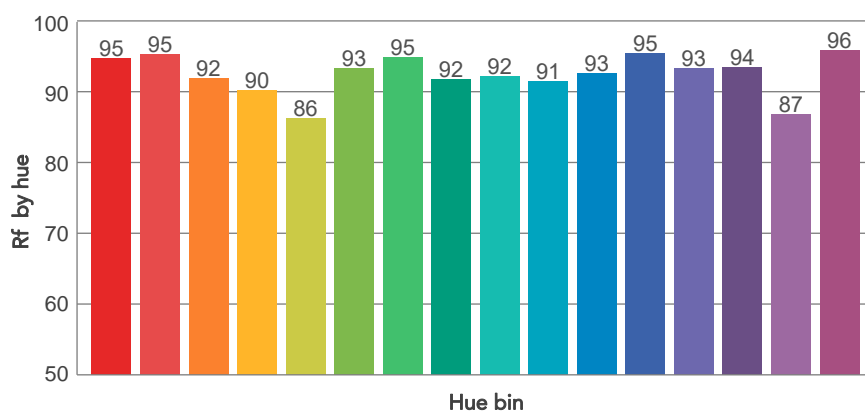
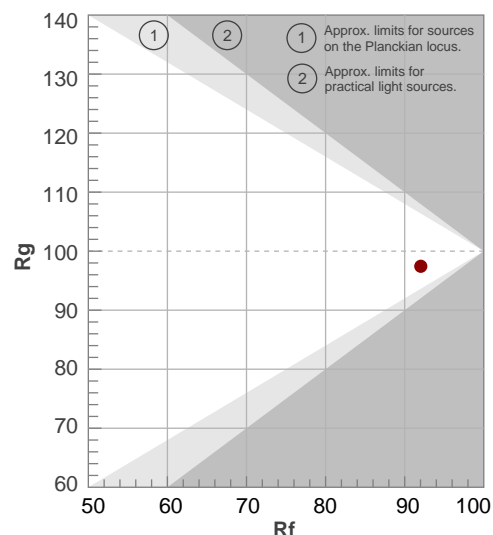
Rf 92,0

Fidelity index  $R_f$

Rg 97,4

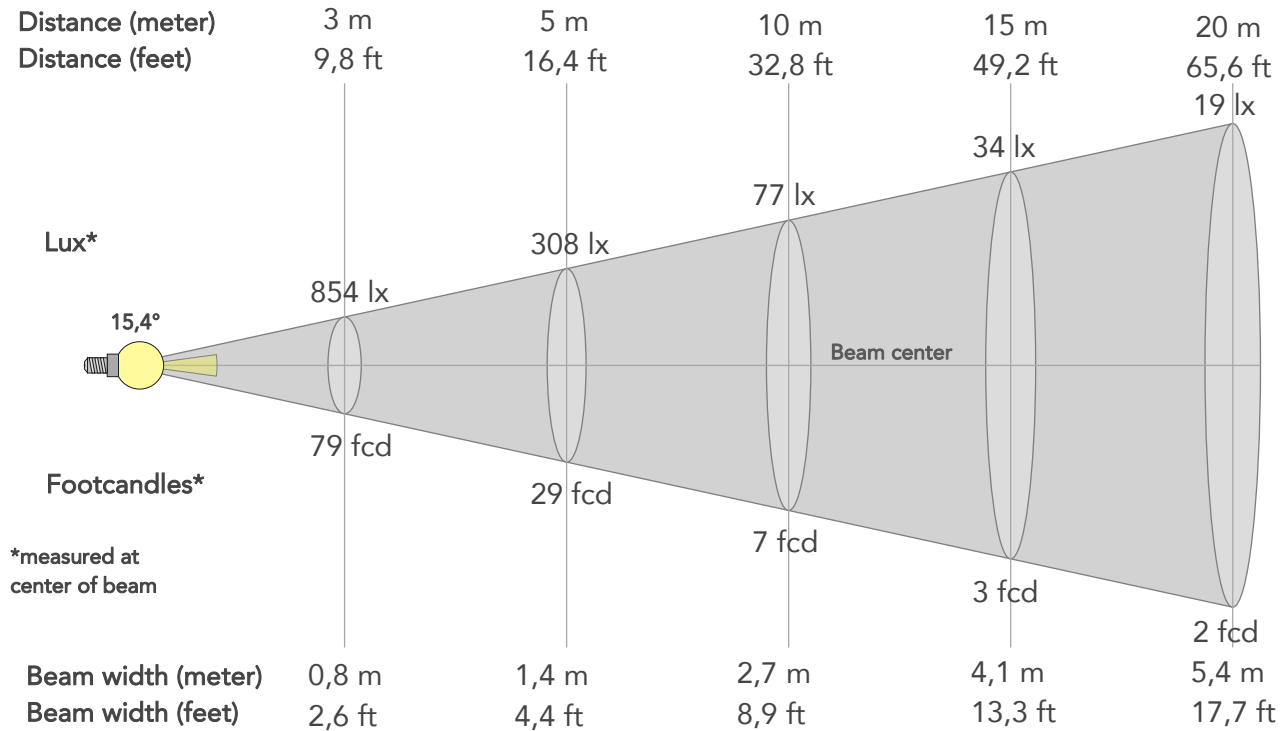
## Gammut index

		Graphic shifts (%)	
Hue Bin	$R_f$	Chroma	Hue
1	95	1%	0%
2	95	0%	-2%
3	92	-1%	-4%
4	90	-3%	-5%
5	86	-8%	-4%
6	93	-5%	0%
7	95	-3%	1%
8	92	-3%	3%
9	92	-1%	7%
10	91	1%	6%
11	93	2%	3%
12	95	0%	-3%
13	93	1%	-3%
14	94	-2%	-3%
15	87	7%	-8%
16	96	-1%	-1%



# BEAM DETAILS

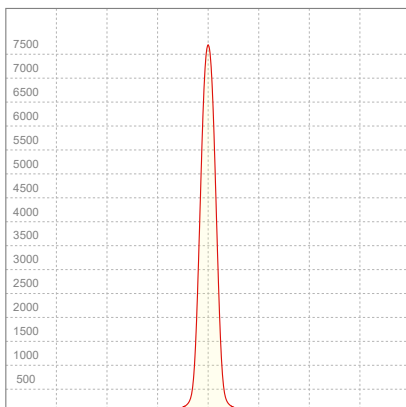
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	25,8°	36,6°	97,4%	94,8%



## 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	7688lx	1922lx	854lx	481lx	308lx	137lx	77lx	34lx	19lx	12lx	9lx	5lx	3lx
Footcand.	714fcd	179fcd	79fcd	45fcd	29fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,7ft	8,9ft	13,3ft	17,7ft	22,2ft	26,6ft	35,5ft	44,3ft

## LINEAR DISTRIBUTION DIAGRAM

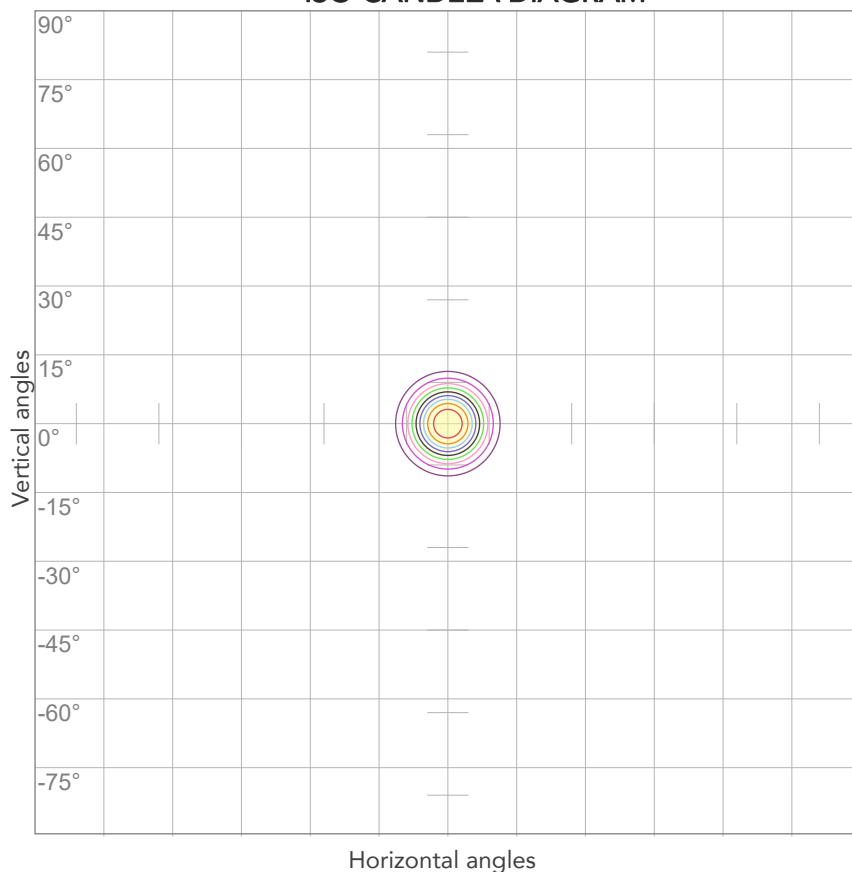


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,114A	13,7W	0,53	52lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



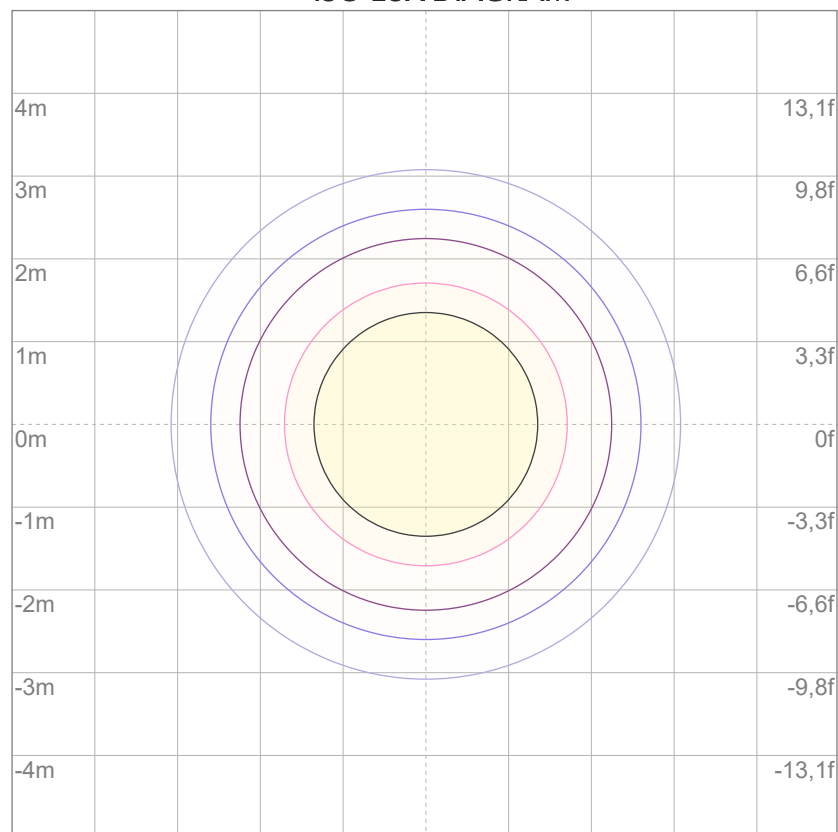
10%	769 cd
20%	1538 cd
30%	2306 cd
40%	3075 cd
50%	3844 cd
60%	4613 cd
70%	5382 cd
80%	6150 cd

### Conditions:

Number of c-planes: 2

Candela at center: 7688 cd

## ISO LUX DIAGRAM



3%	2,31 lx
5%	3,84 lx
10%	7,69 lx
30%	23,1 lx
50%	38,4 lx

### Conditions:

Number of c-planes: 2

Lux at center: 76,9 lx

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



Total lumen output:

663 lm

Peak candela output:

7215 cd

Light quality:

CRI: 95,1

Color temperature:

6979 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

15°

Target:

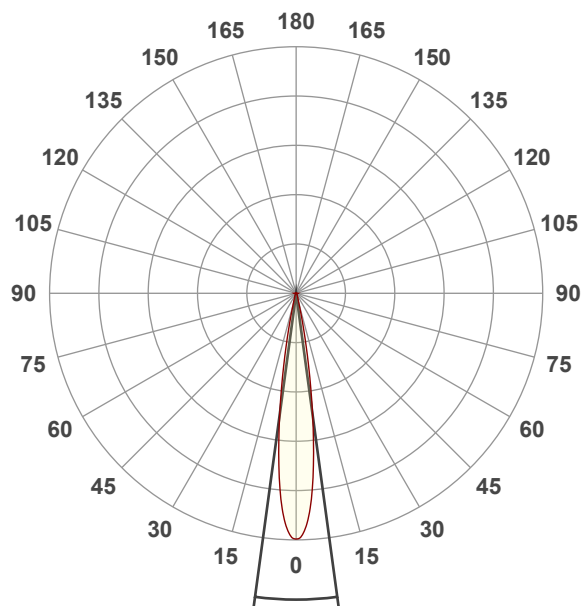
7000K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 11:41:33

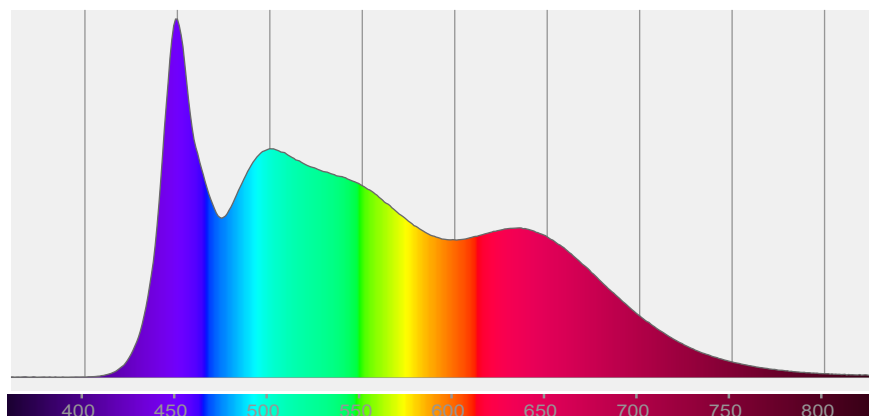


Beam angle 50%: 15,4°

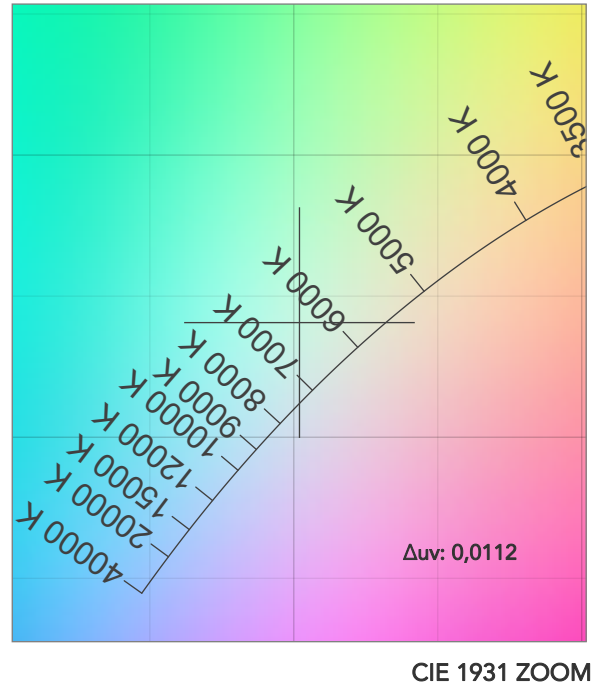
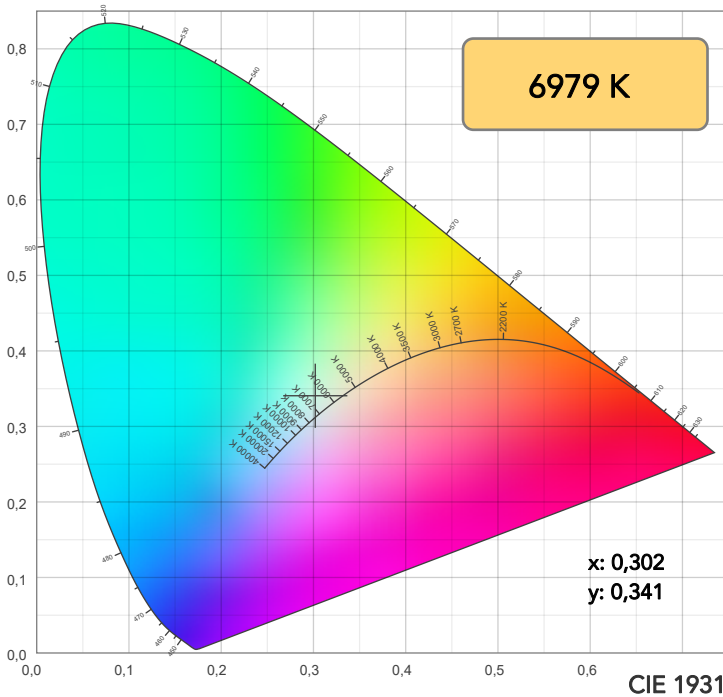
Field angle 10%: 25,8°

Cut off angle 2.5%: 36,7°

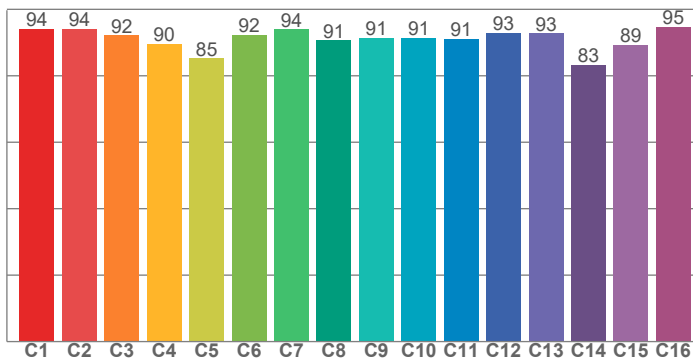
**Spectra**



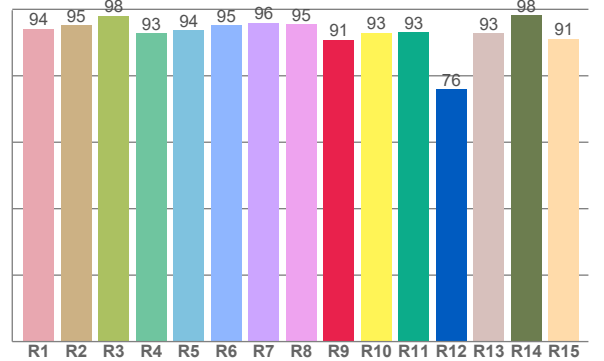
# COLOR DETAILS



TM30: 91,2



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
94,2	95,3	98,0	92,9	93,7	95,1	96,0	95,4	90,8	92,9	93,1	76,0	92,8	98,2	91,2

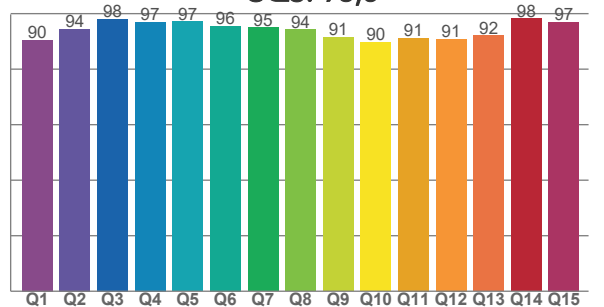
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	94,2	92,1	89,5	85,2	92,4	94,0	90,6	91,4	91,5	91,1	92,8	92,8	83,3	89,3	94,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,5	94,5	98,1	97,0	97,1	95,6	95,0	94,2	91,5	89,6	91,2	90,8	92,0	98,3	97,1

CQS: 93,5



## 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	$\Delta uv$
6979 K	95,1	90,8	91,2	96,7	93,5	98	0,302	0,341	0,0112

## TM30 DETAILS

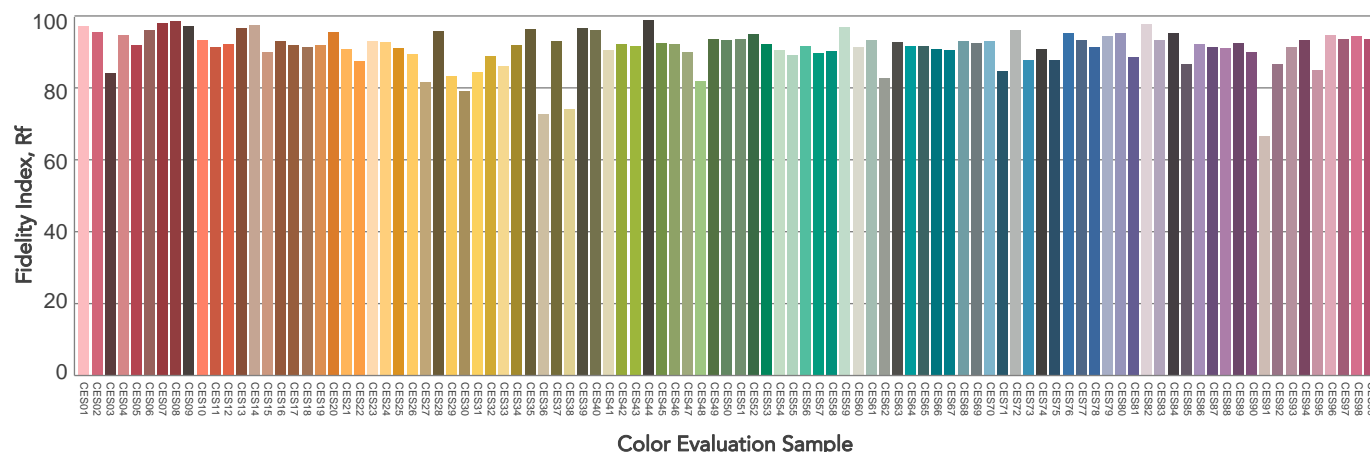
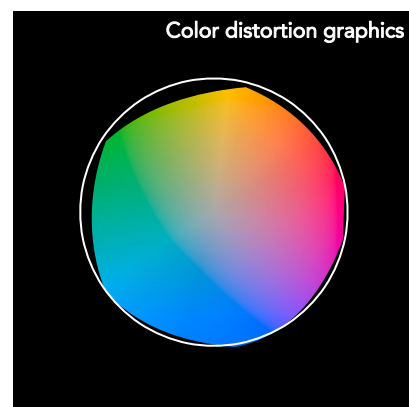
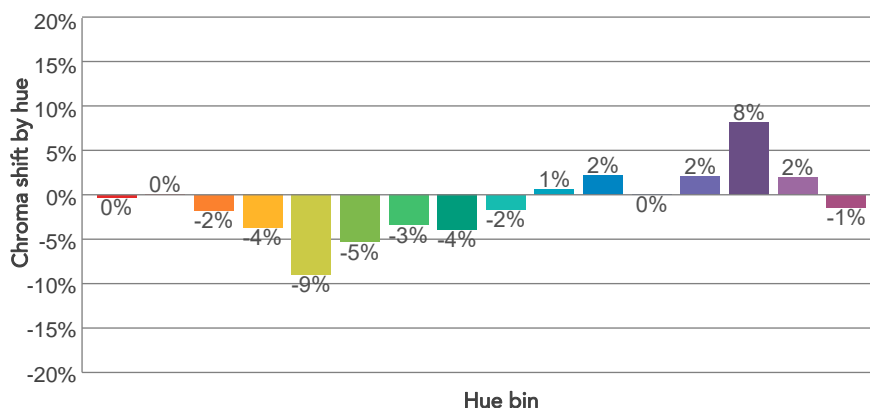
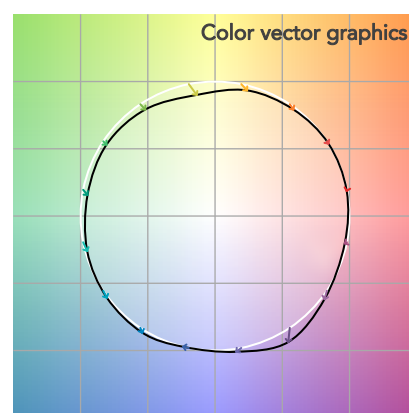
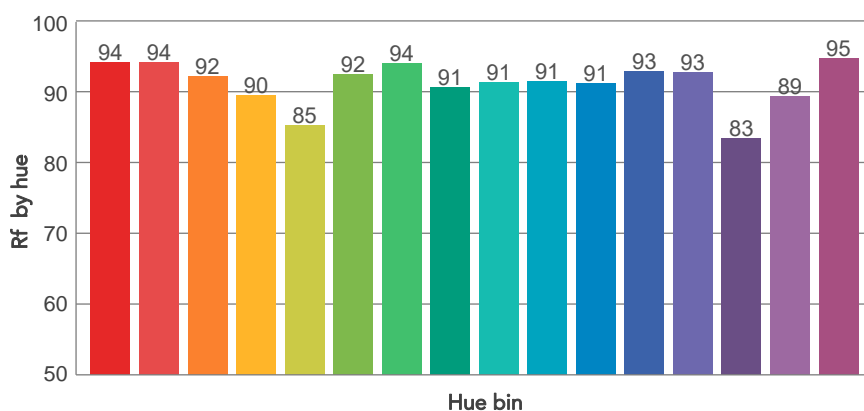
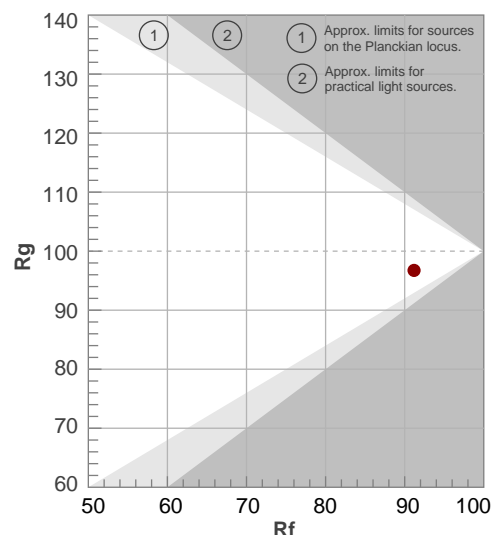
**Rf 91,2**

Fidelity index Rf

**Rg 96,7**

Gammut index

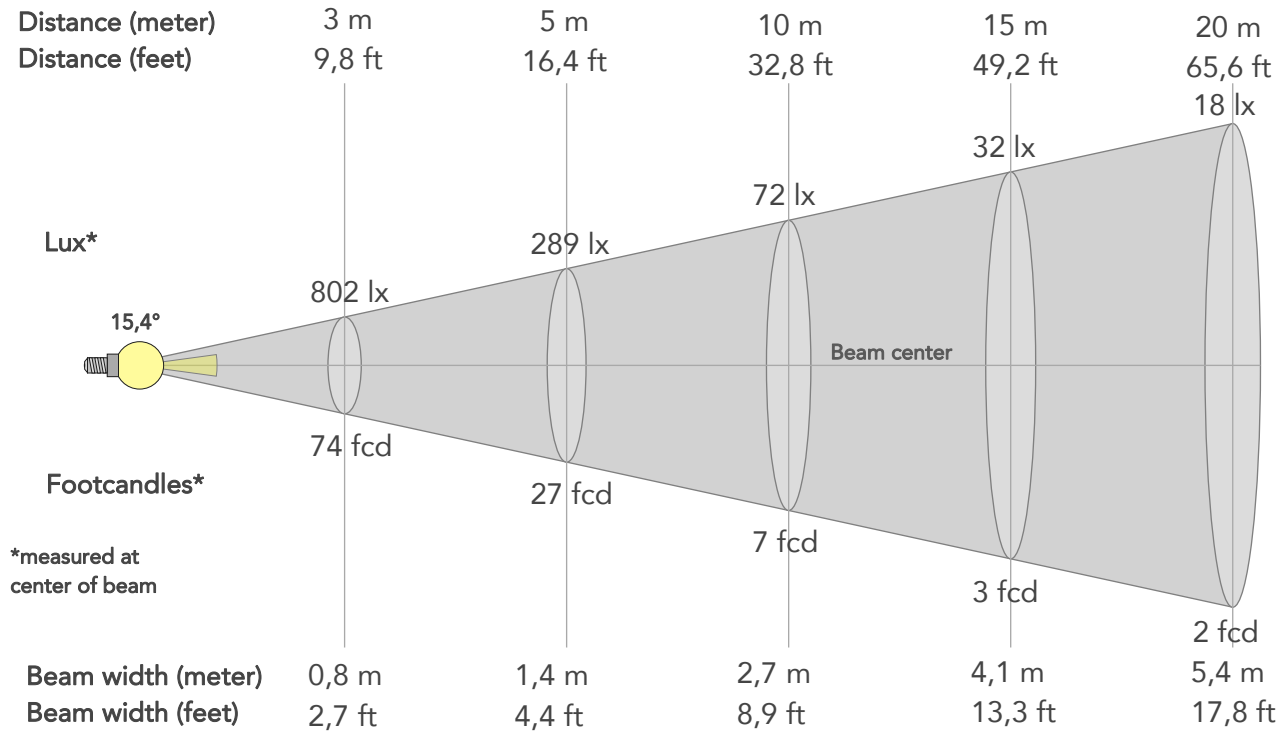
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-1%
2	94	0%	-2%
3	92	-2%	-4%
4	90	-4%	-5%
5	85	-9%	-4%
6	92	-5%	-1%
7	94	-3%	1%
8	91	-4%	3%
9	91	-2%	7%
10	91	1%	6%
11	91	2%	3%
12	93	0%	-4%
13	93	2%	-4%
14	83	8%	-7%
15	89	2%	-6%
16	95	-1%	-1%





# BEAM DETAILS

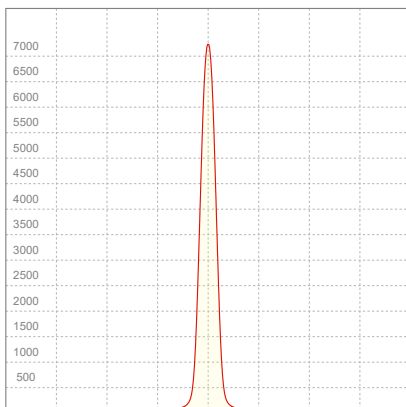
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	25,8°	36,7°	97,8%	95,1%



## 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	7215lx	1804lx	802lx	451lx	289lx	128lx	72lx	32lx	18lx	12lx	8lx	5lx	3lx
Footcand.	670fcd	168fcd	74fcd	42fcd	27fcd	12fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,7ft	3,5ft	4,4ft	6,7ft	8,9ft	13,3ft	17,8ft	22,2ft	26,7ft	35,5ft	44,4ft

## LINEAR DISTRIBUTION DIAGRAM

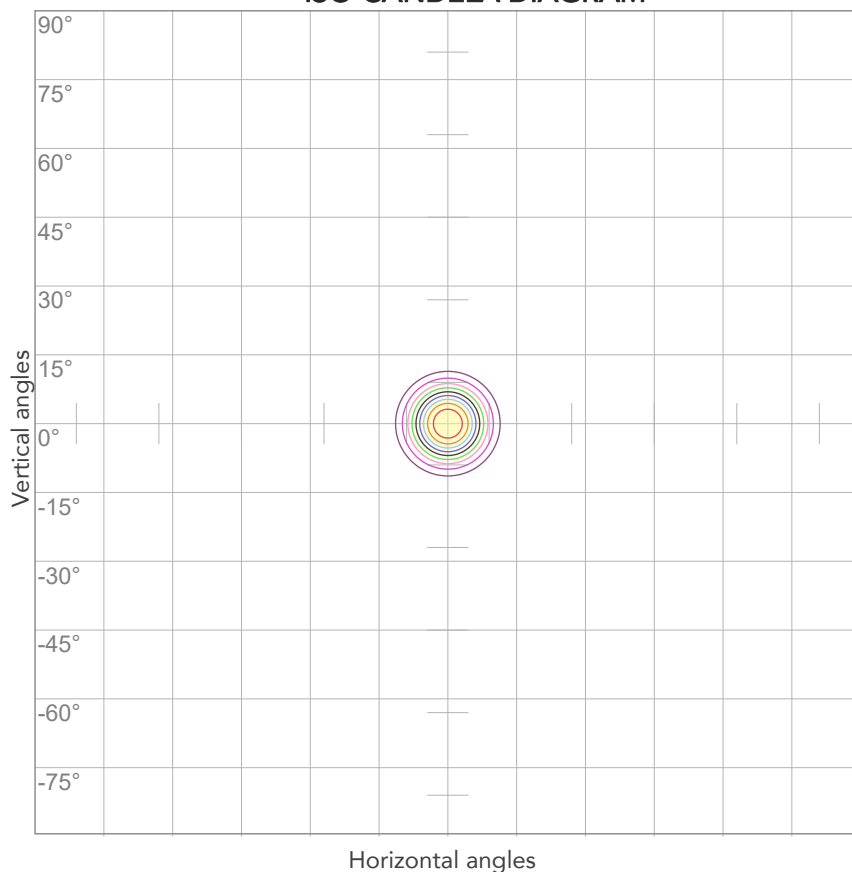


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,108A	12,6W	0,51	52lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



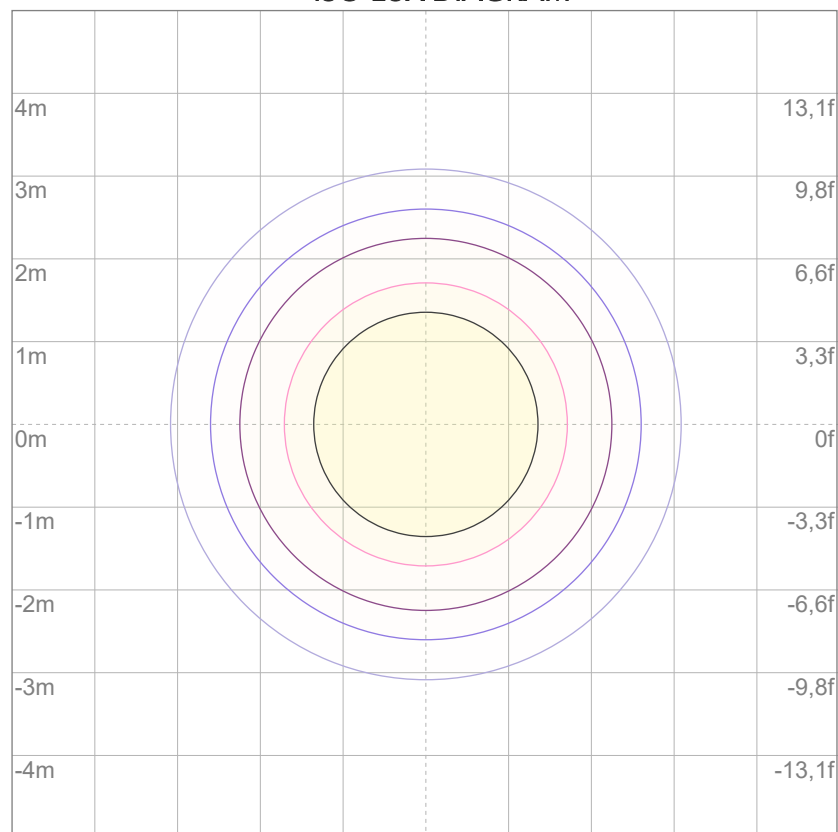
10%	721 cd
20%	1443 cd
30%	2164 cd
40%	2886 cd
50%	3607 cd
60%	4329 cd
70%	5050 cd
80%	5772 cd

### Conditions:

Number of c-planes: 2

Candela at center: 7215 cd

## ISO LUX DIAGRAM



3%	2,16 lx
5%	3,61 lx
10%	7,21 lx
30%	21,6 lx
50%	36,1 lx

### Conditions:

Number of c-planes: 2

Lux at center: 72,1 lx

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