



# Photometric Test Report



## **ArcSpot XSVW**

IP66 Spot featuring 800 lumen with  
3 x 4W Variable White source,  
25° Degree Lens

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## 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:

731 lm

Peak candela output:

4365 cd

Light quality:

CRI: 95,9

Color temperature:

4435 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

25°

Target:

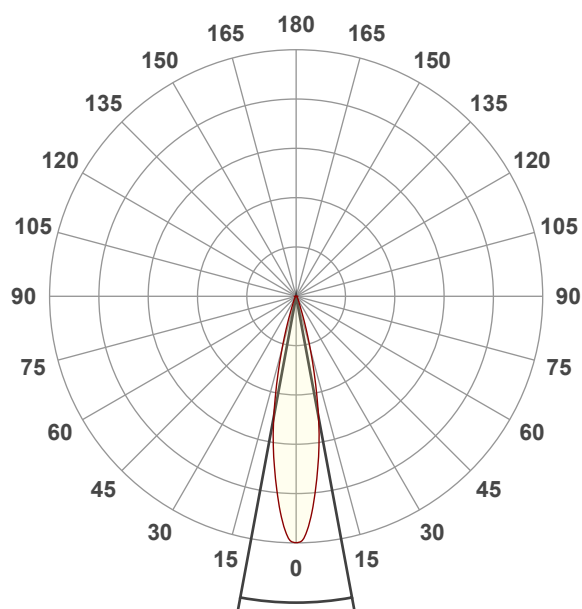
Full On

Operator:

Salvatore Giglio

Date and time:

15/05/2024 12:31:02

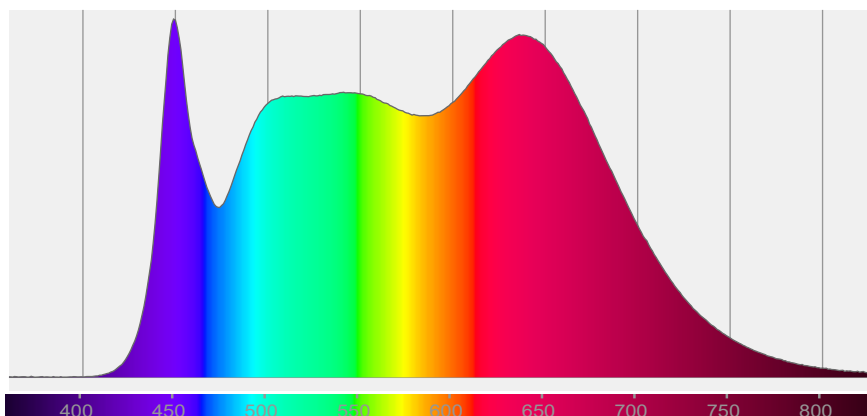


Beam angle 50%: 21°

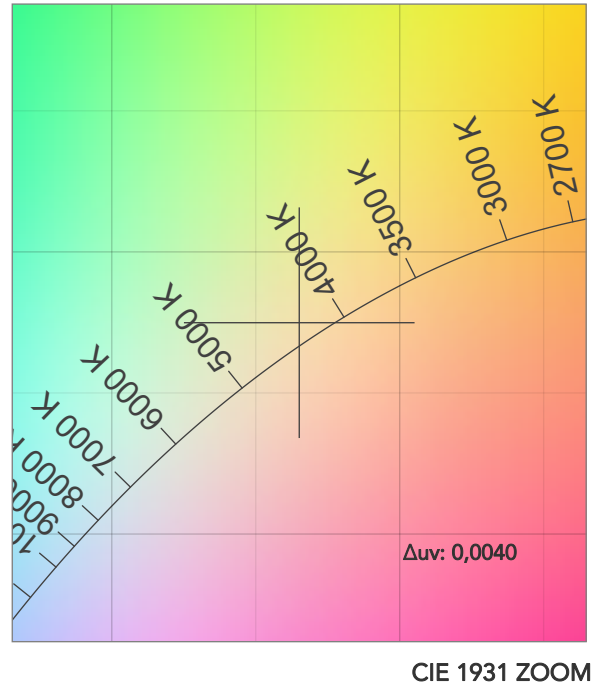
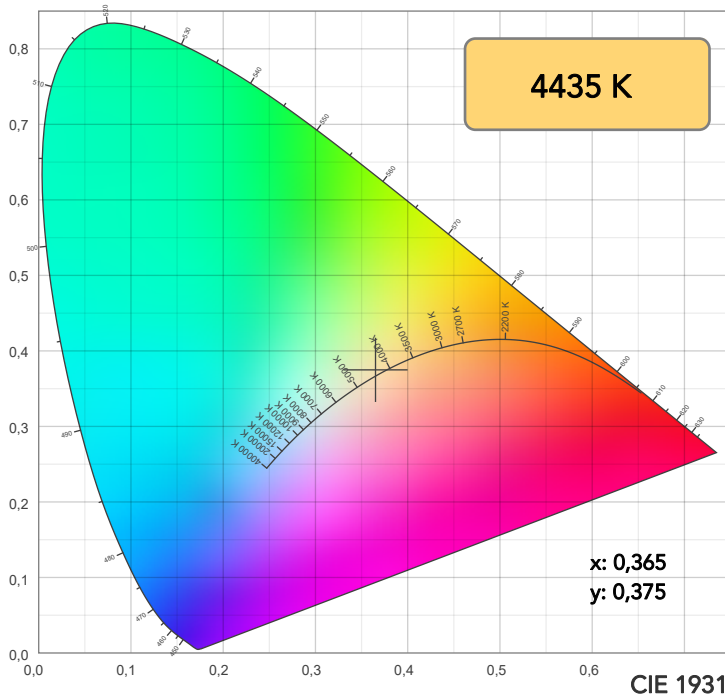
Field angle 10%: 36,5°

Cut off angle 2.5%: 52,3°

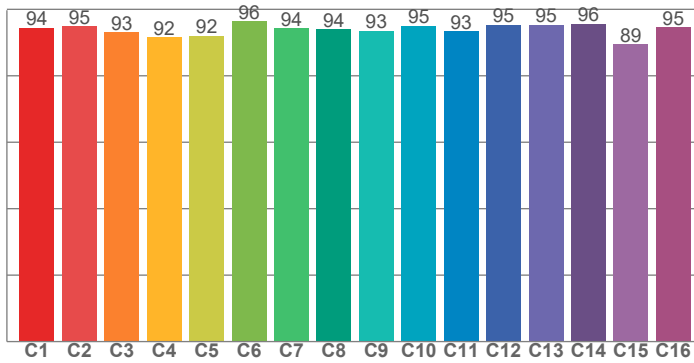
**Spectra**



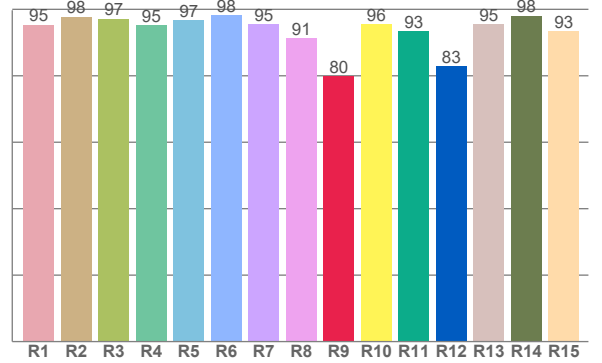
## COLOR DETAILS



TM30: 93,7



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
95,3	97,8	97,2	95,3	96,6	98,2	95,4	91,3	79,9	95,6	93,4	82,9	95,4	98,0	93,3

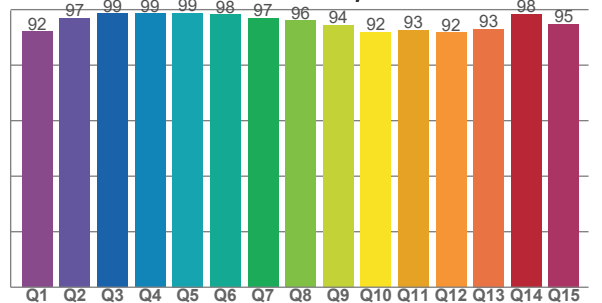
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,1	96,9	98,5	98,6	98,7	98,2	96,9	96,1	94,5	91,9	92,6	91,8	93,0	98,3	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	Δuv
4435 K	95,9	79,9	93,7	100,8	94,8	99	0,365	0,375	0,0040

## TM30 DETAILS

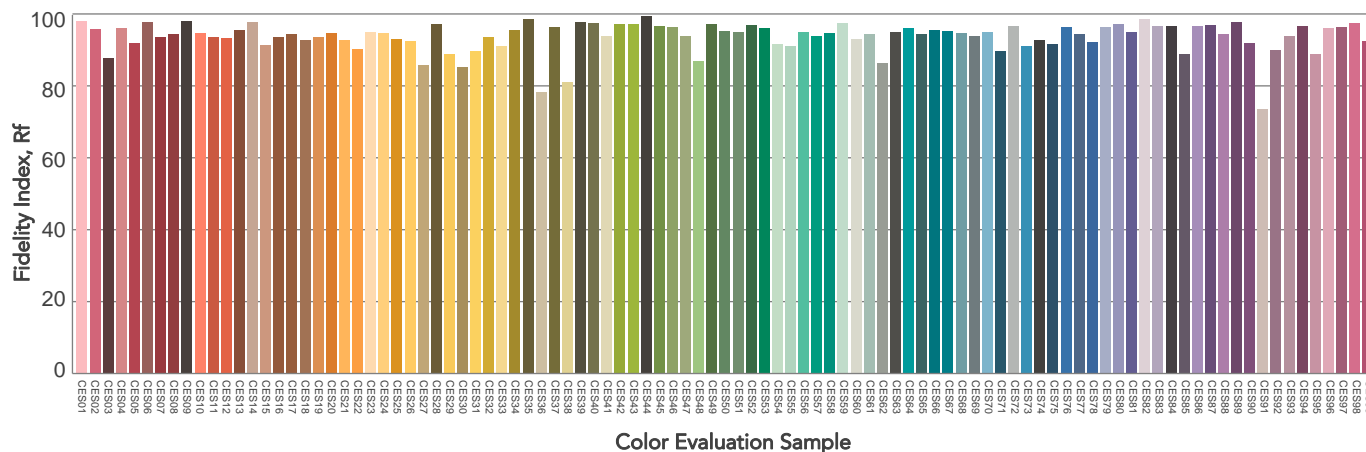
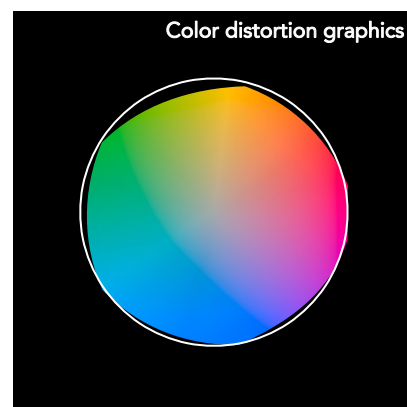
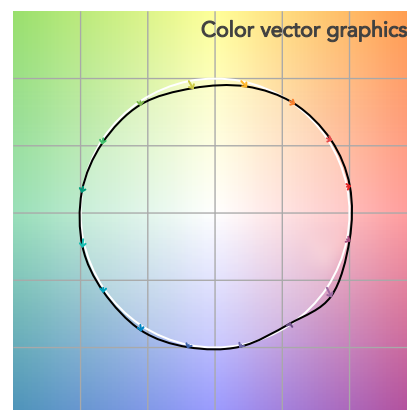
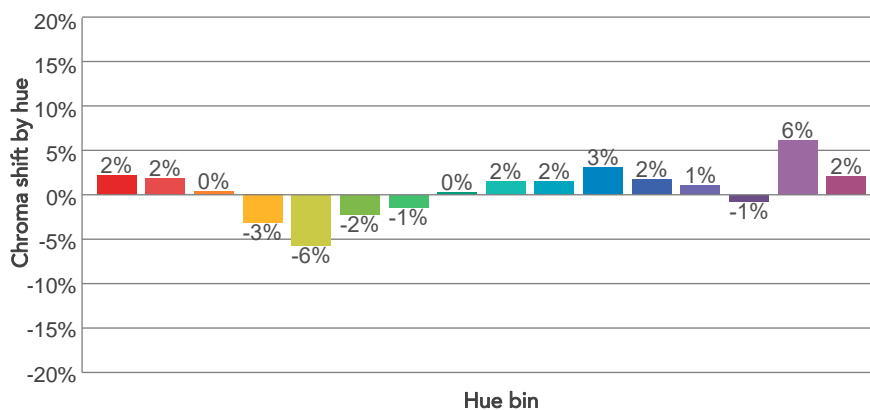
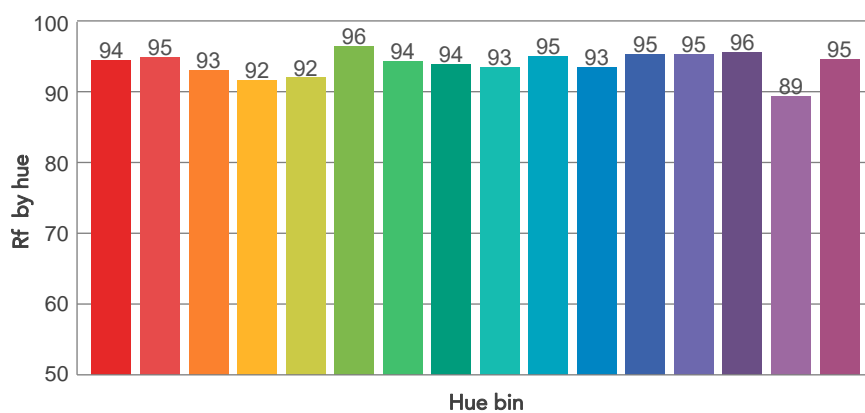
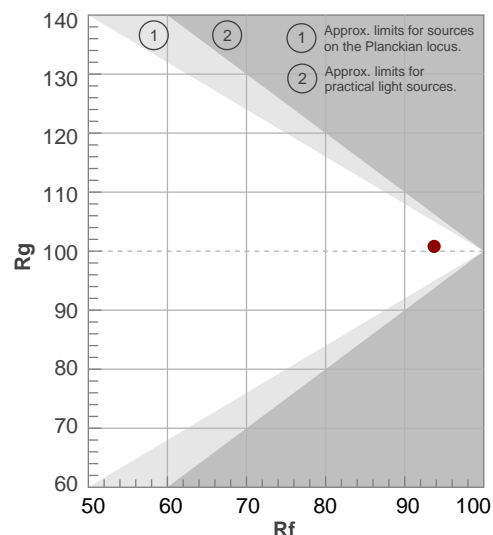
Rf 93,7

Fidelity index  $R_f$

Rg 100,8

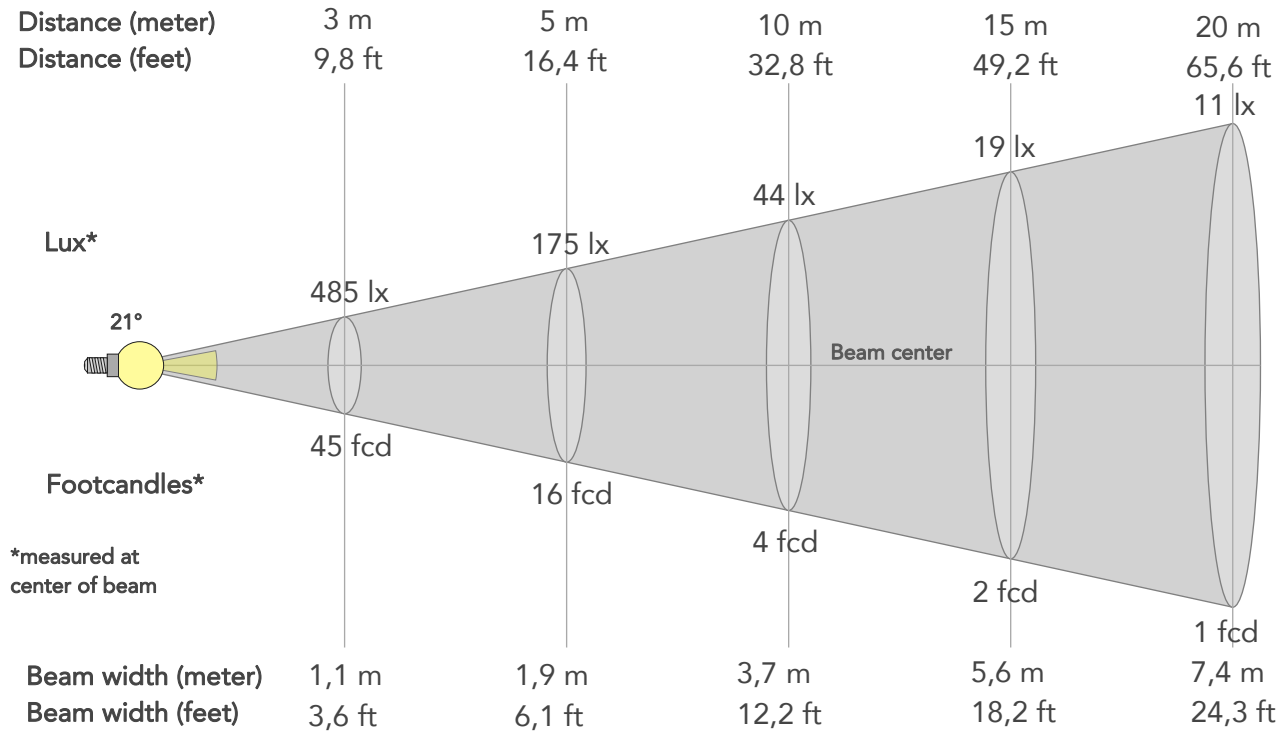
## Gammut index

		Graphic shifts (%)	
Hue Bin	$R_f$	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	93	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%	-3%
16	95	2%	-1%



# BEAM DETAILS

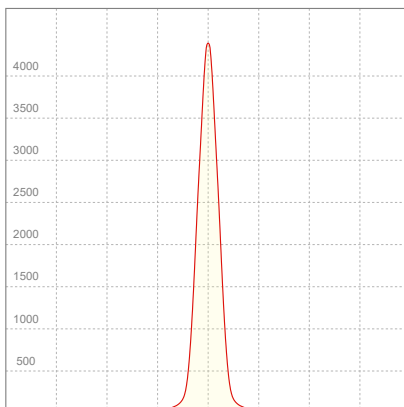
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21°	36,5°	52,3°	97,4%	94,3%



## 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	4365lx	1091lx	485lx	273lx	175lx	78lx	44lx	19lx	11lx	7lx	5lx	3lx	2lx
Footcand.	406fcd	101fcd	45fcd	25fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,9m	2,8m	3,7m	5,6m	7,4m	9,3m	11,1m	14,8m	18,5m
Beam wid.	1,2ft	2,4ft	3,6ft	4,9ft	6,1ft	9,1ft	12,2ft	18,2ft	24,3ft	30,4ft	36,5ft	48,7ft	60,8ft

## LINEAR DISTRIBUTION DIAGRAM

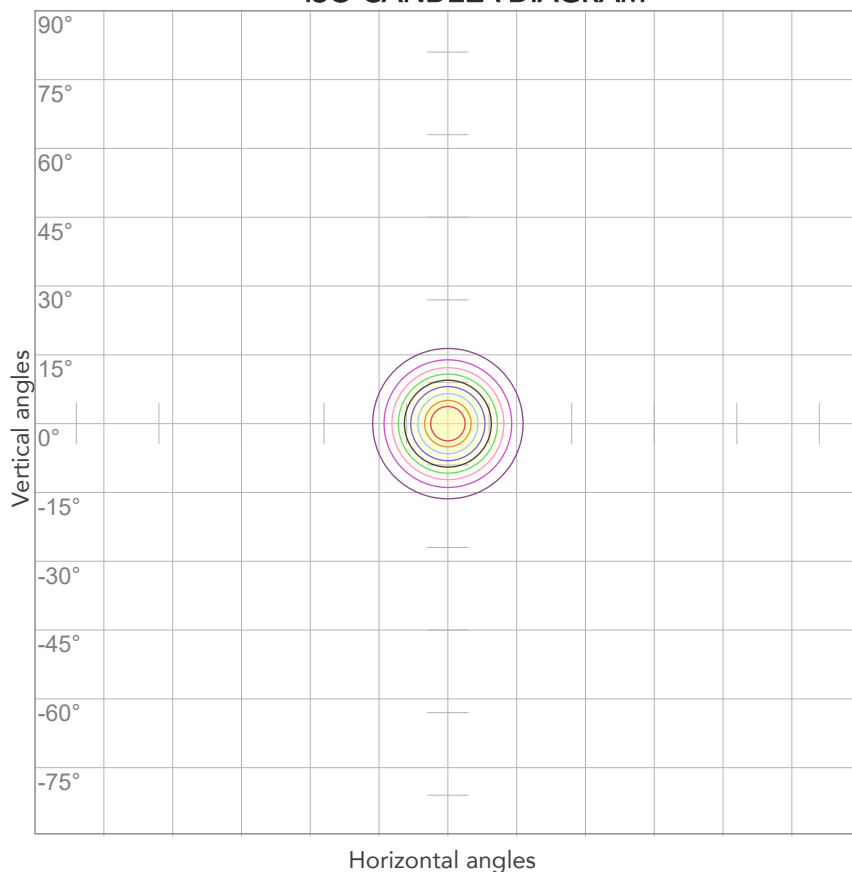


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,138A	16,9W	0,54	43lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



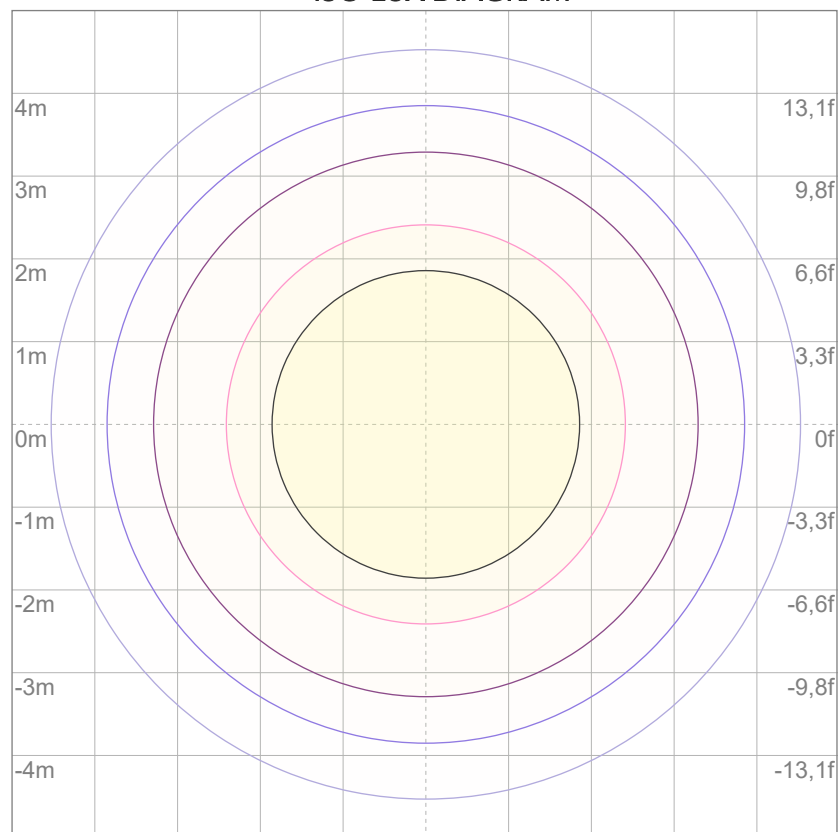
10%	437 cd
20%	873 cd
30%	1310 cd
40%	1746 cd
50%	2183 cd
60%	2619 cd
70%	3056 cd
80%	3492 cd

### Conditions:

Number of c-planes: 2

Candela at center: 4365 cd

## ISO LUX DIAGRAM



3%	1,31 lx
5%	2,18 lx
10%	4,37 lx
30%	13,1 lx
50%	21,8 lx

### Conditions:

Number of c-planes: 2

Lux at center: 43,7 lx

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





Total lumen output:

452 lm

Peak candela output:

2732 cd

Light quality:

CRI: 96,9

Color temperature:

2629 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

25°

Target:

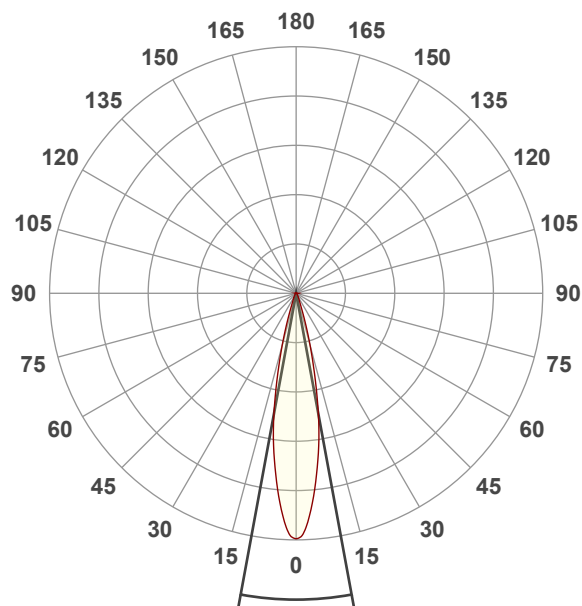
Warm White

Operator:

Salvatore Giglio

Date and time:

15/05/2024 12:38:36

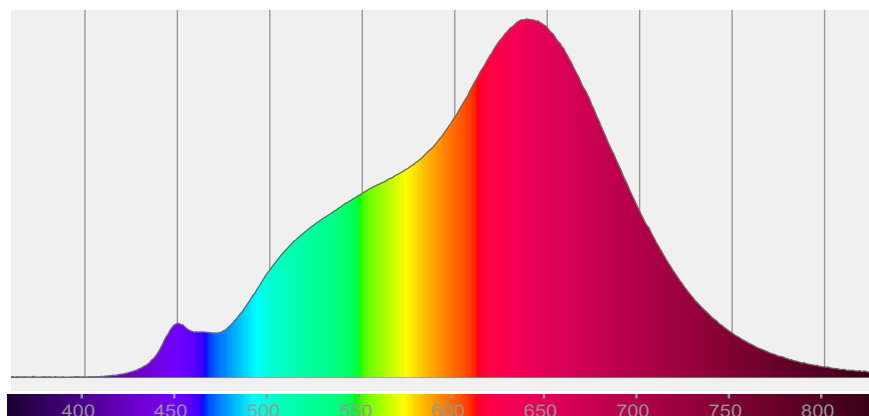


Beam angle 50%: 20,9°

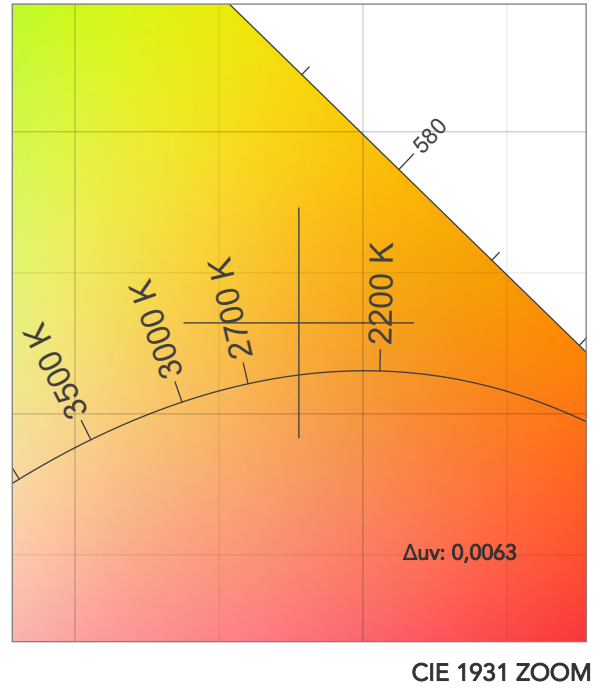
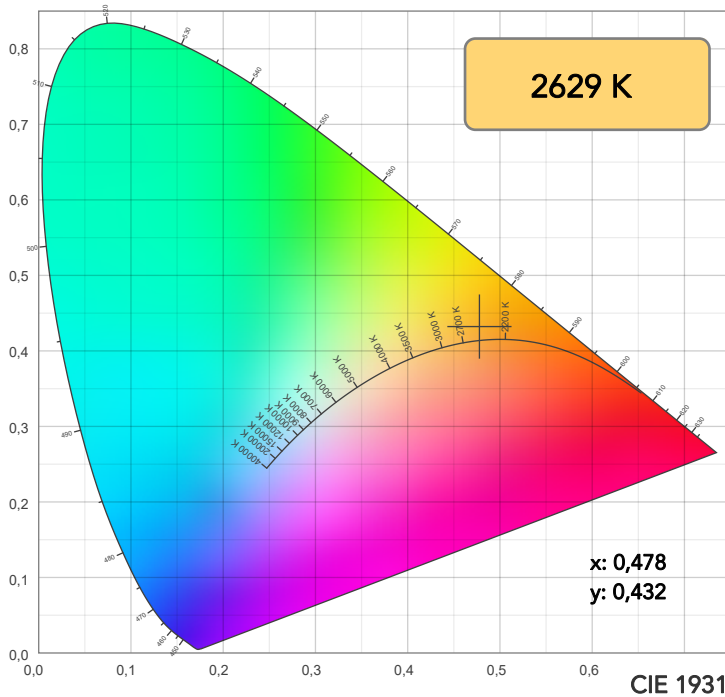
Field angle 10%: 36,2°

Cut off angle 2.5%: 52,3°

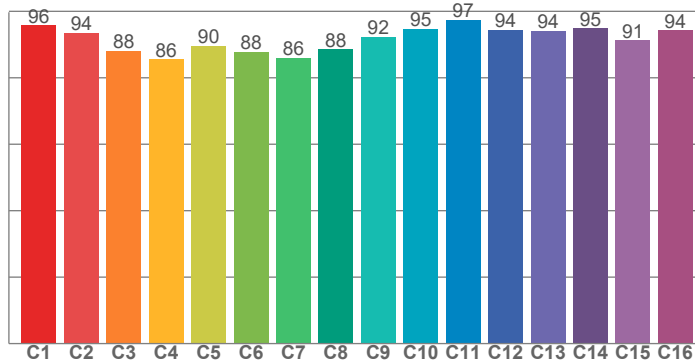
**Spectra**



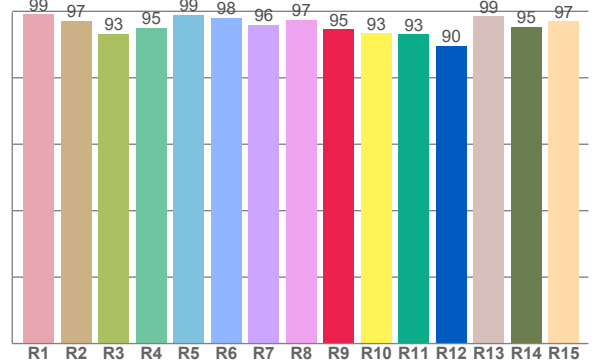
## COLOR DETAILS



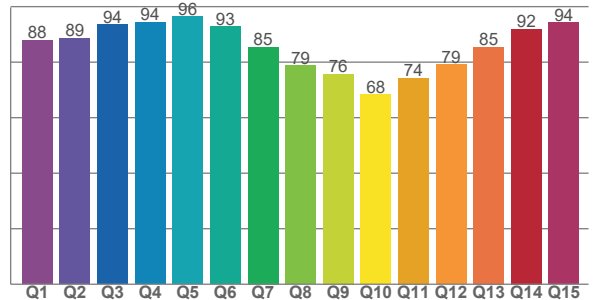
TM30: 91,9



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
99,1	97,2	93,2	95,0	99,0	98,0	96,0	97,5	94,7	93,4	93,1	89,7	98,6	95,4	97,1

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
95,8	93,6	88,1	85,5	89,7	87,8	86,0	88,5	92,3	94,6	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
87,9	88,6	93,5	94,4	96,4	92,8	85,4	78,7	75,7	68,3	74,2	79,1	85,4	91,9	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	$\Delta uv$
2629 K	96,9	94,7	91,9	94,7	83,1	95	0,478	0,432	0,0063

## TM30 DETAILS

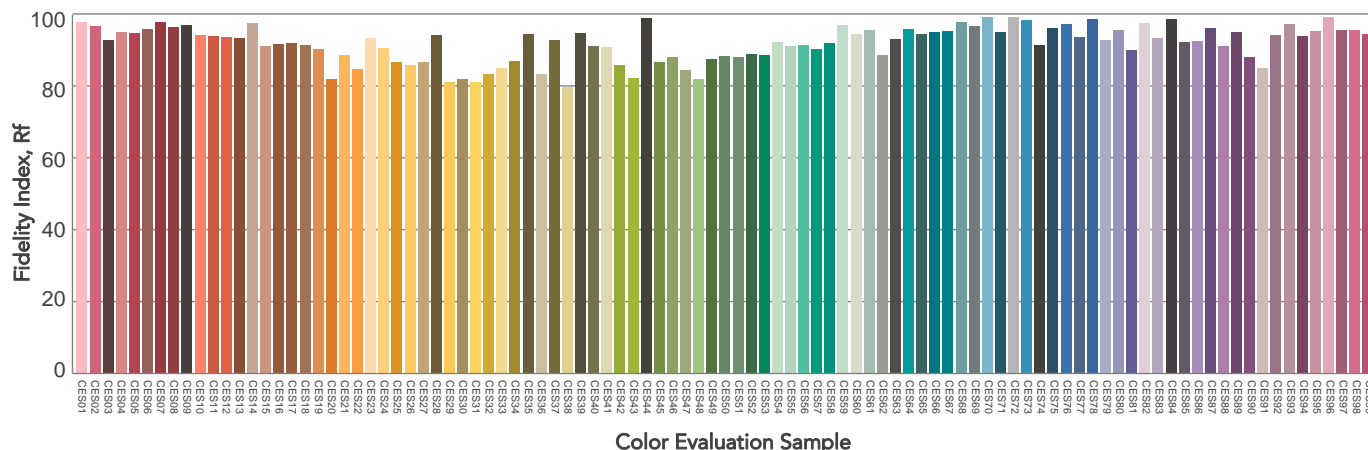
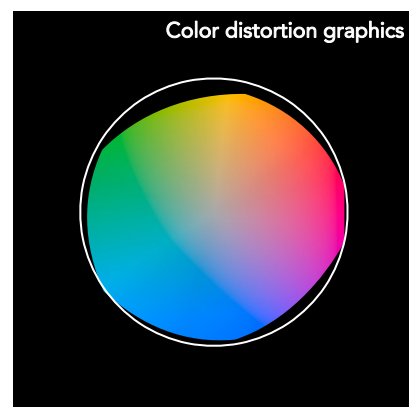
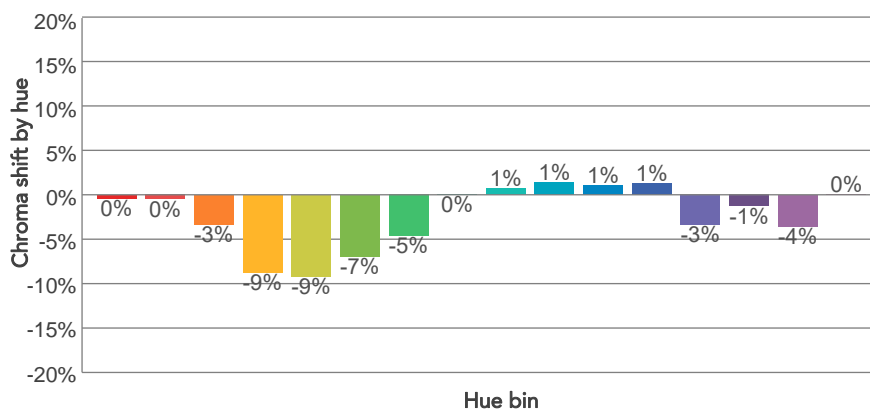
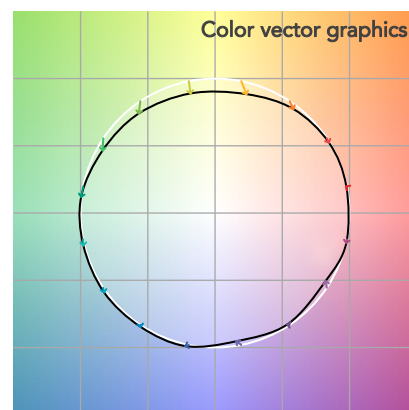
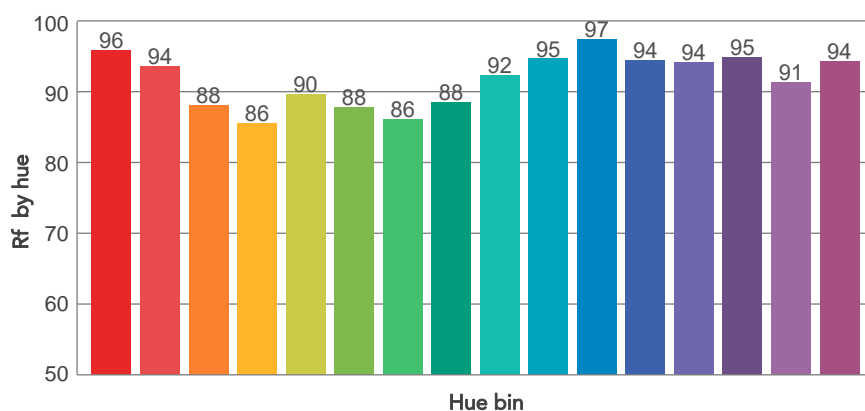
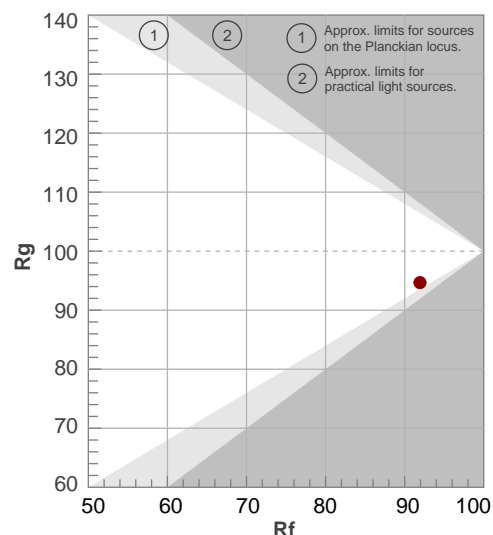
**Rf 91,9**

Fidelity index Rf

**Rg 94,7**

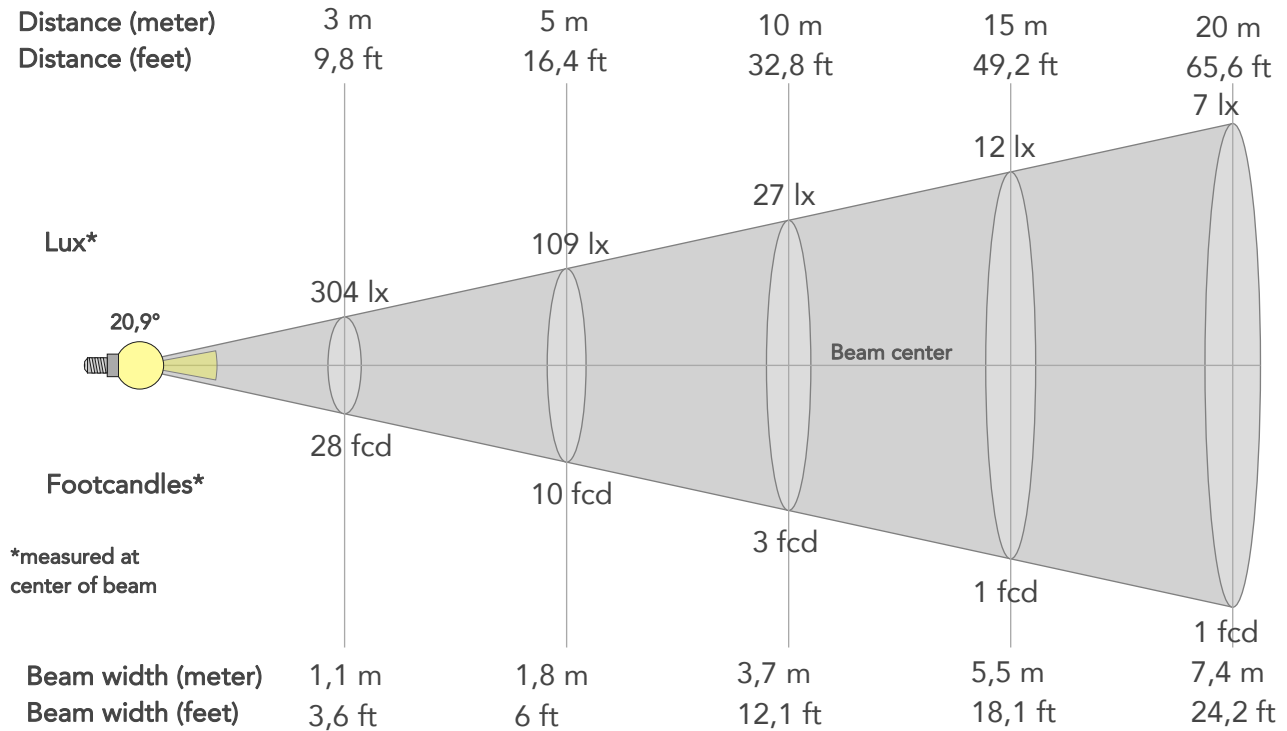
Gammut index

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

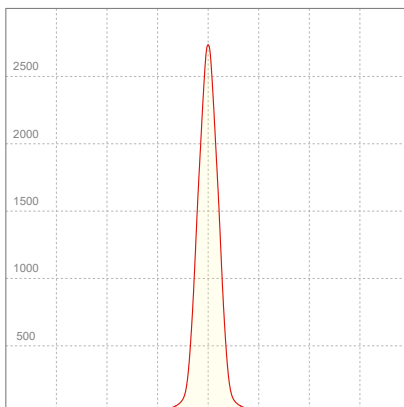
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	36,2°	52,3°	97,3%	94,2%



## 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	2732lx	683lx	304lx	171lx	109lx	49lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	254fcd	63fcd	28fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,2ft	30,2ft	36,2ft	48,3ft	60,4ft

## LINEAR DISTRIBUTION DIAGRAM

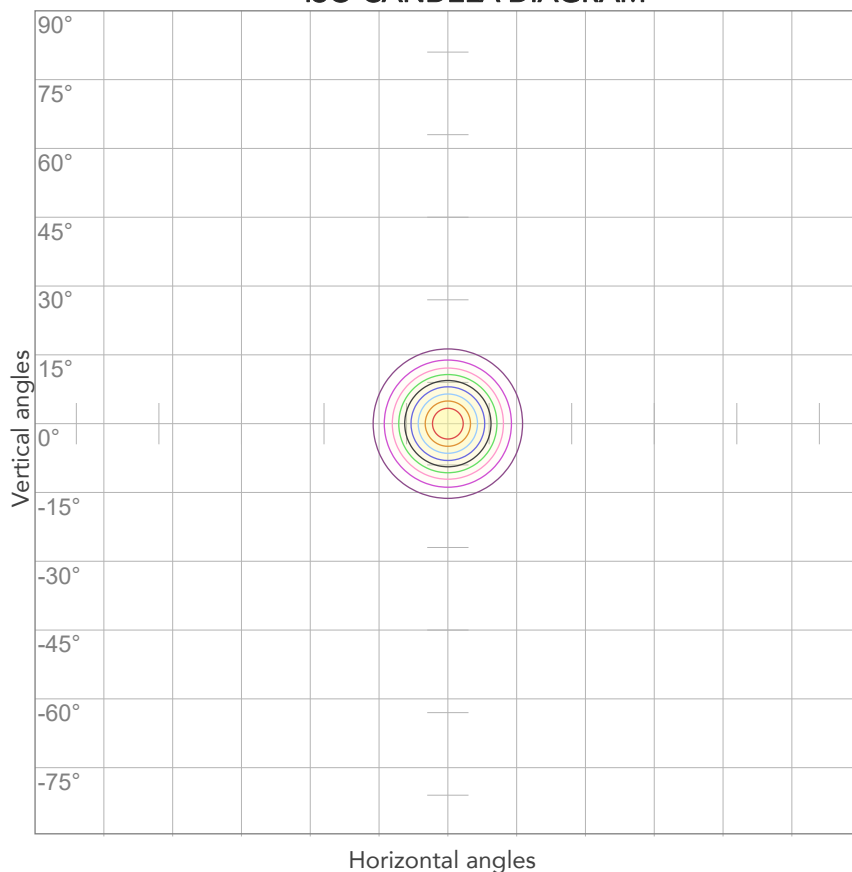


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,098A	12,8W	0,57	35lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



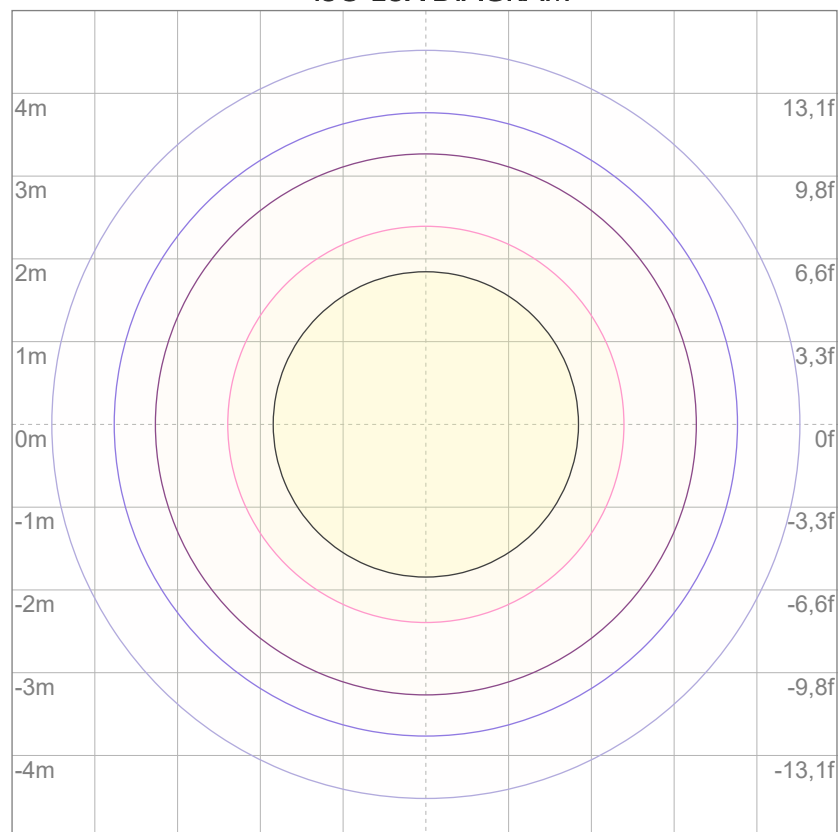
10%	273 cd
20%	546 cd
30%	819 cd
40%	1093 cd
50%	1366 cd
60%	1639 cd
70%	1912 cd
80%	2185 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2732 cd

## ISO LUX DIAGRAM



3%	0,819 lx
5%	1,37 lx
10%	2,73 lx
30%	8,19 lx
50%	13,7 lx

### Conditions:

Number of c-planes: 2

Lux at center: 27,3 lx

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



Total lumen output:

635 lm

Peak candela output:

3853 cd

Light quality:

CRI: 94,9

Color temperature:

6942 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

25°

Target:

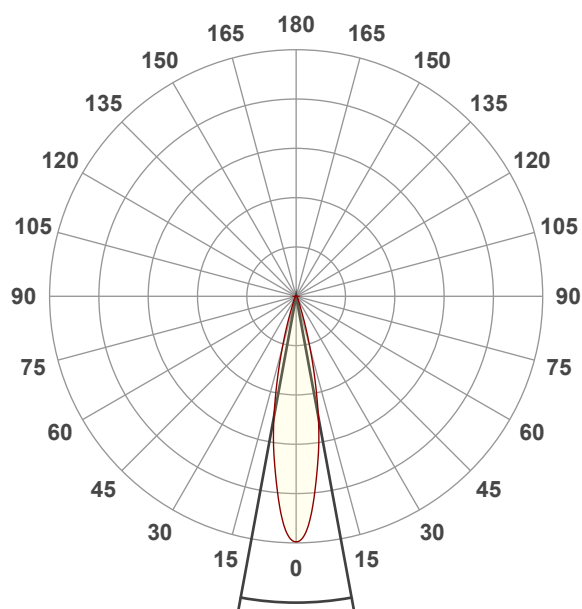
Cold White

Operator:

Salvatore Giglio

Date and time:

15/05/2024 12:40:28

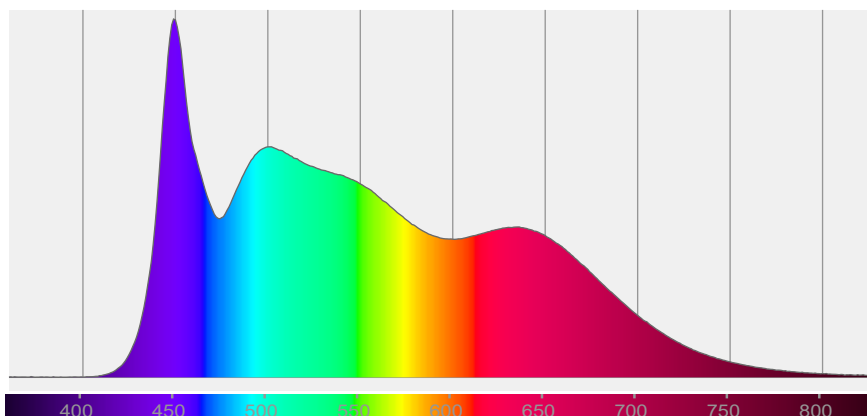


Beam angle 50%: 20,9°

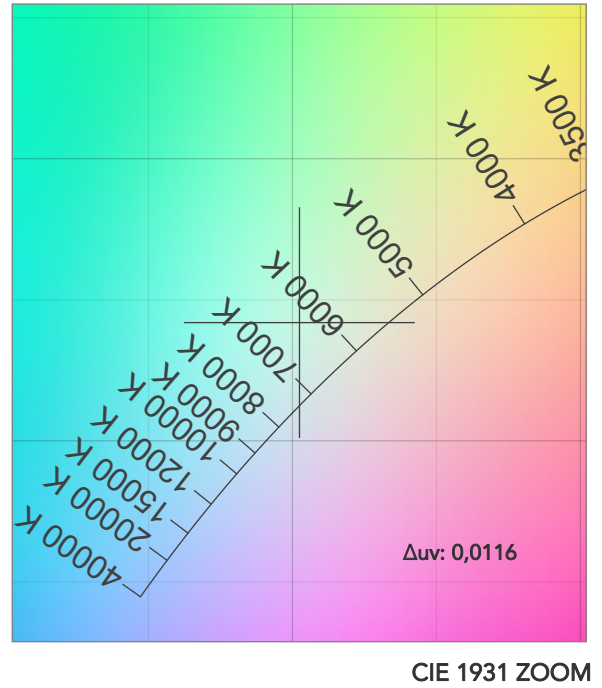
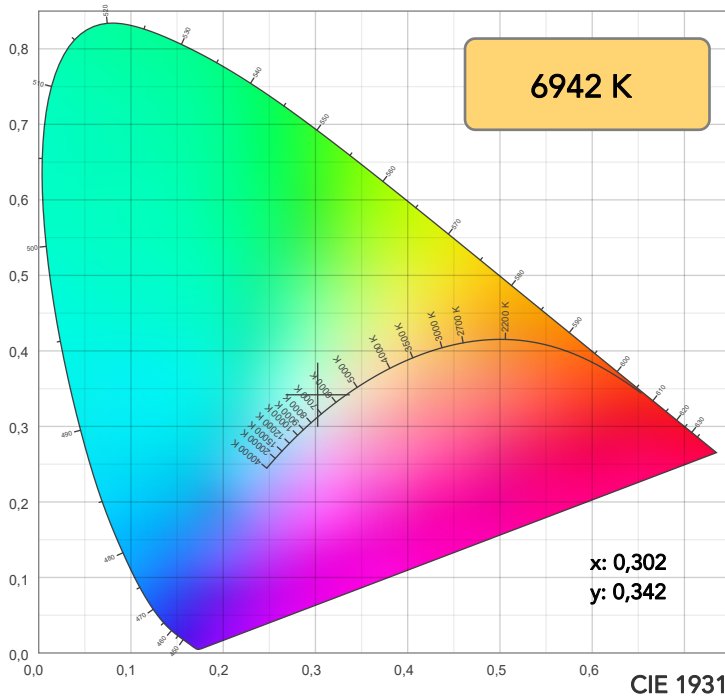
Field angle 10%: 36,3°

Cut off angle 2.5%: 52°

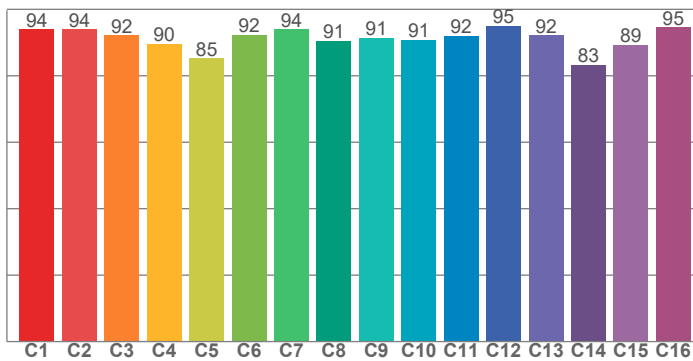
**Spectra**



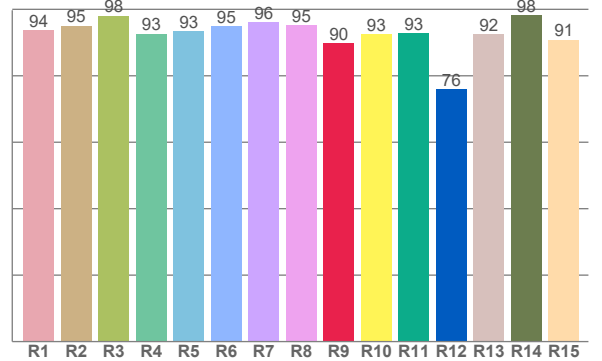
## COLOR DETAILS



**TM30: 91,2**



**CRI: 94,9 (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
93,8	95,1	98,0	92,7	93,4	94,8	96,1	95,3	89,7	92,6	92,8	75,9	92,4	98,2	90,9

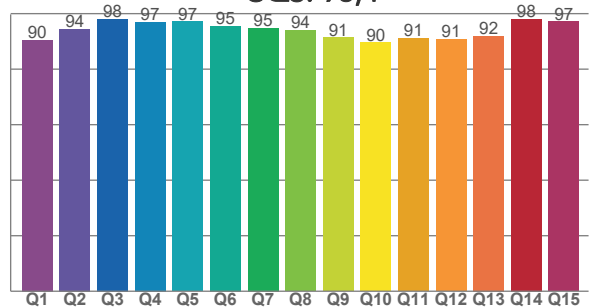
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,0	94,0	92,1	89,6	85,3	92,4	93,9	90,6	91,4	90,9	92,0	94,9	92,2	83,3	89,2	94,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,5	94,4	98,1	97,0	97,1	95,5	94,8	94,0	91,3	89,5	91,1	90,7	91,9	98,1	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	$\Delta uv$
6942 K	94,9	89,7	91,2	96,9	93,4	98	0,302	0,342	0,0116

## TM30 DETAILS

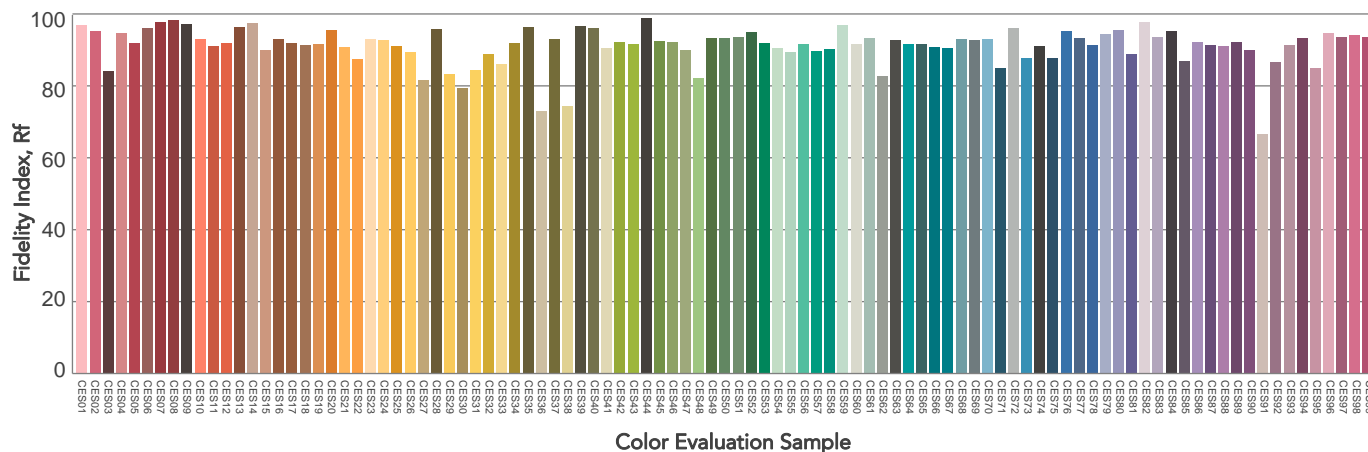
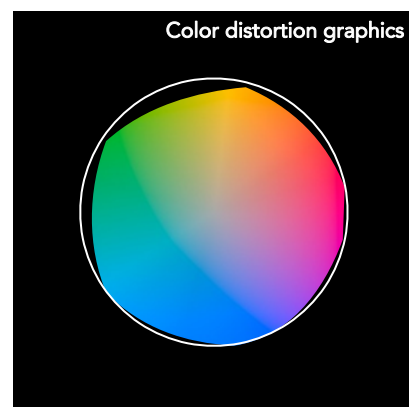
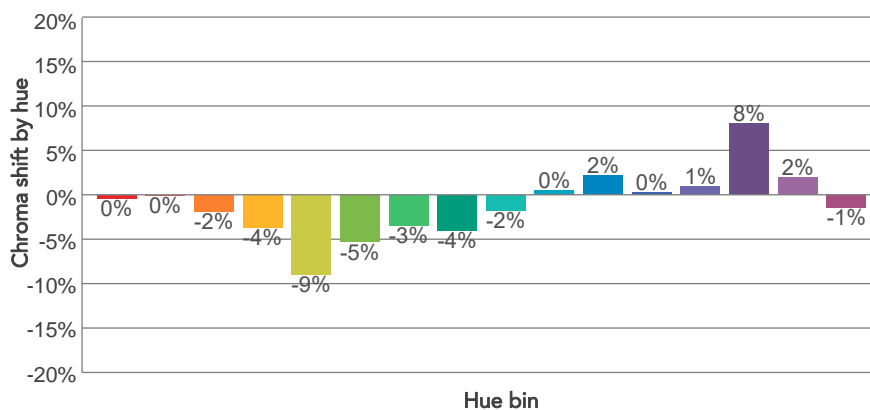
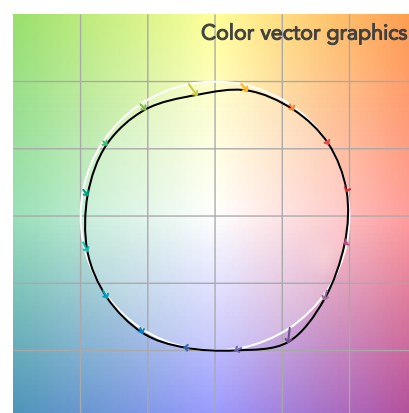
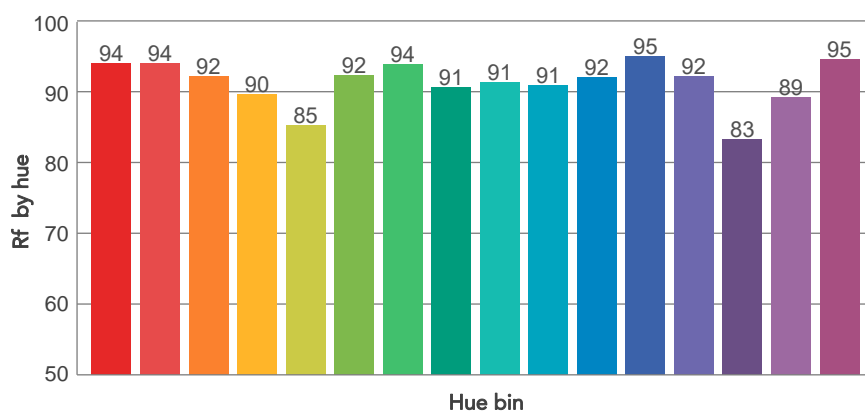
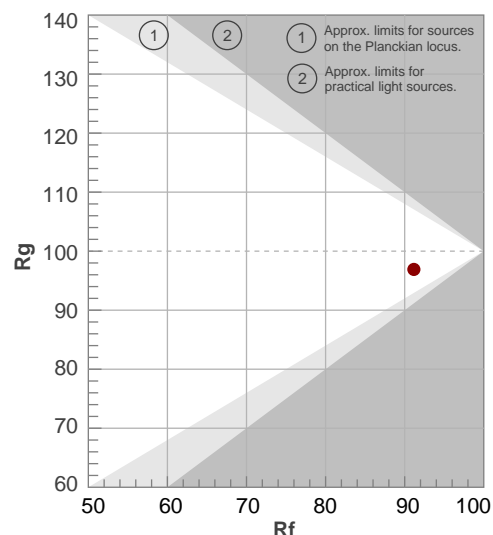
**Rf 91,2**

Fidelity index Rf

**Rg 96,9**

Gammut index

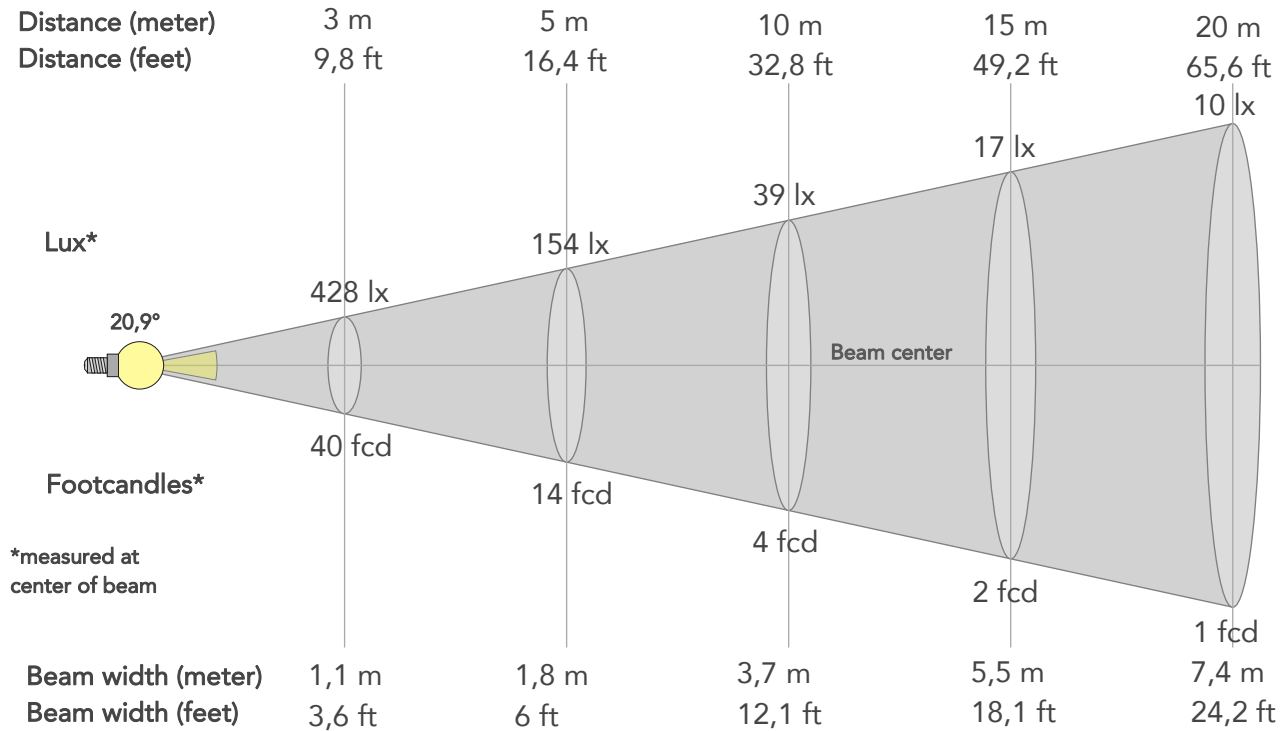
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-1%
2	94	0%	-2%
3	92	-2%	-4%
4	90	-4%	-5%
5	85	-9%	-4%
6	92	-5%	-1%
7	94	-3%	1%
8	91	-4%	3%
9	91	-2%	7%
10	92	2%	3%
11	91	0%	-3%
12	95	0%	-3%
13	92	1%	-5%
14	83	8%	-7%
15	89	2%	-6%
16	95	-1%	-1%





# BEAM DETAILS

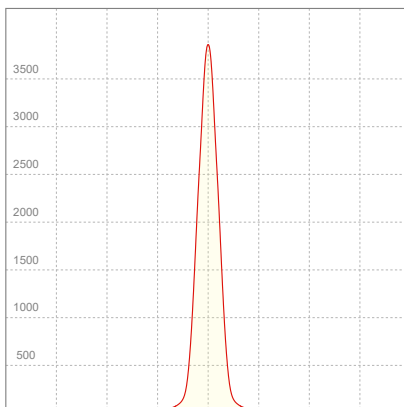
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	36,3°	52°	97,6%	94,5%



## 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	3853lx	963lx	428lx	241lx	154lx	68lx	39lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	358fcd	89fcd	40fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,2ft	30,2ft	36,2ft	48,3ft	60,4ft

## LINEAR DISTRIBUTION DIAGRAM

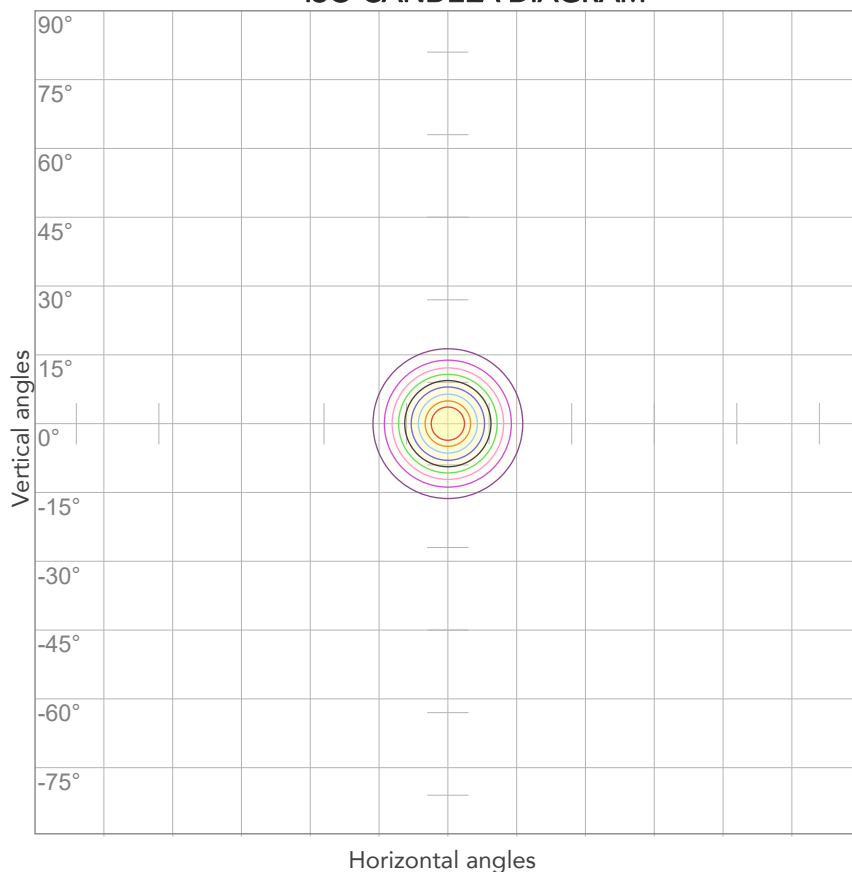


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	0,100A	12,7W	0,56	50lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



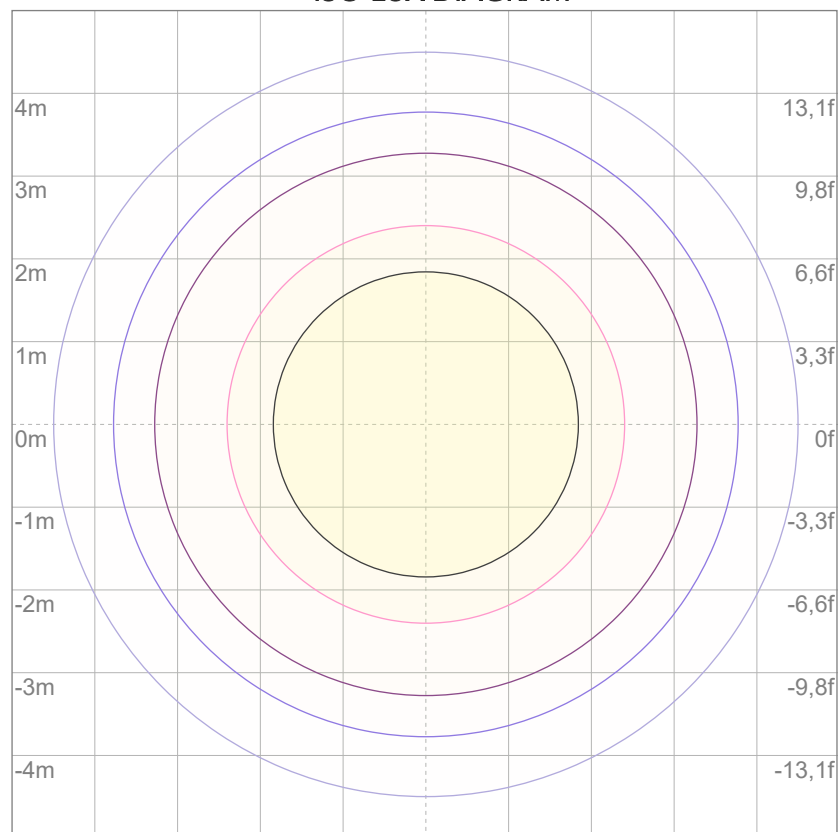
10%	385 cd
20%	771 cd
30%	1156 cd
40%	1541 cd
50%	1926 cd
60%	2312 cd
70%	2697 cd
80%	3082 cd

### Conditions:

Number of c-planes: 2

Candela at center: 3853 cd

## ISO LUX DIAGRAM



3%	1,16 lx
5%	1,93 lx
10%	3,85 lx
30%	11,6 lx
50%	19,3 lx

### Conditions:

Number of c-planes: 2

Lux at center: 38,5 lx

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



Total lumen output:

454 lm

Peak candela output:

2747 cd

Light quality:

CRI: 97,0

Color temperature:

2646 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

25°

Target:

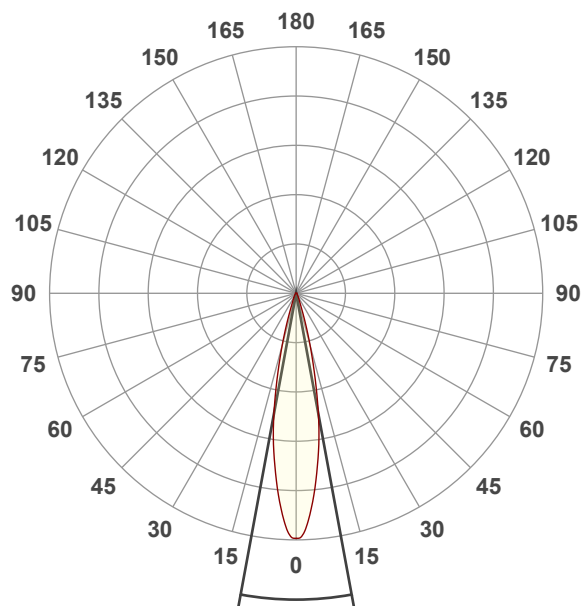
2700K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 12:42:01

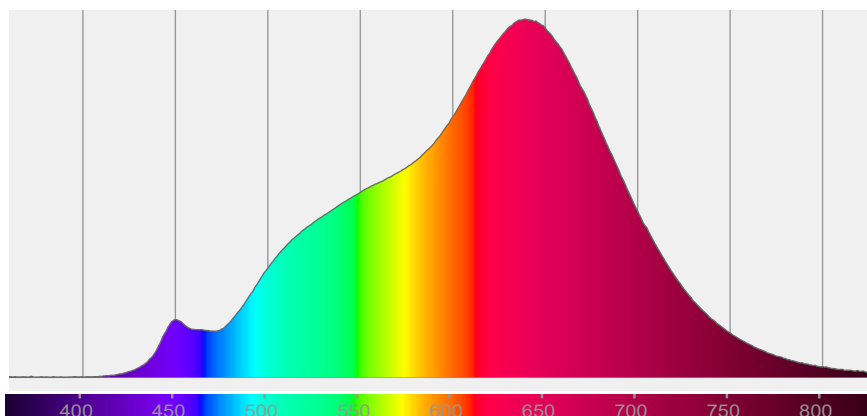


Beam angle 50%: 20,9°

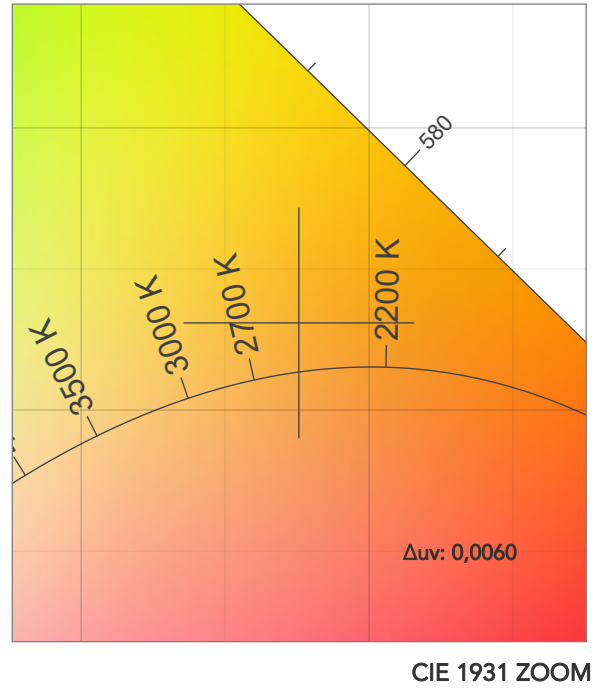
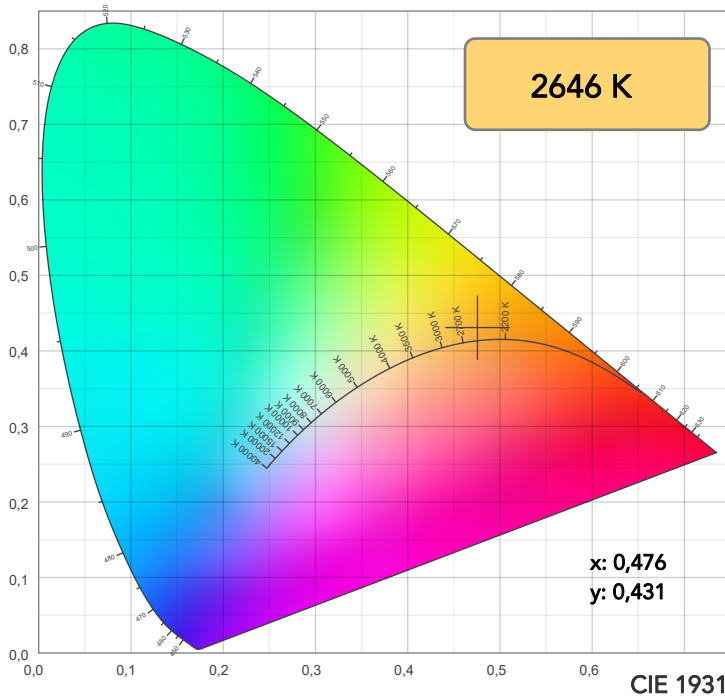
Field angle 10%: 36,2°

Cut off angle 2.5%: 52,2°

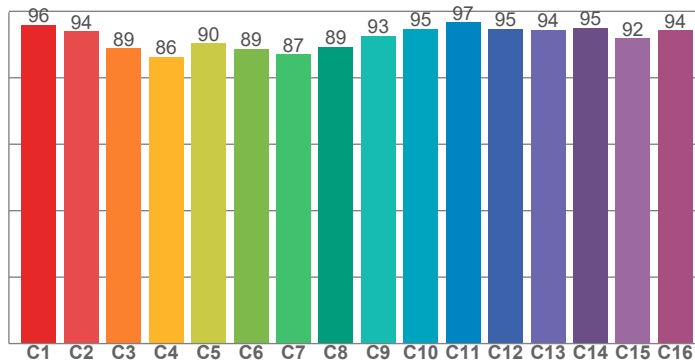
**Spectra**



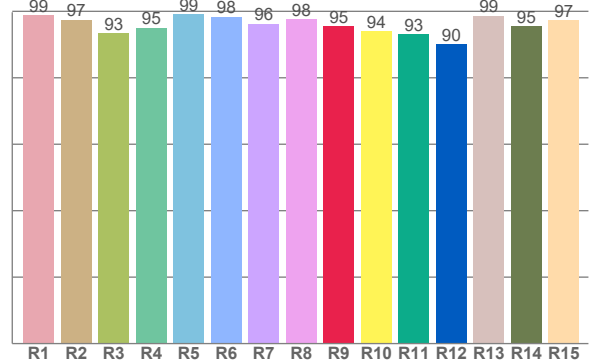
## COLOR DETAILS



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
98,9	97,4	93,5	95,1	99,0	98,4	96,2	97,6	95,4	94,0	93,0	90,1	98,6	95,5	97,4

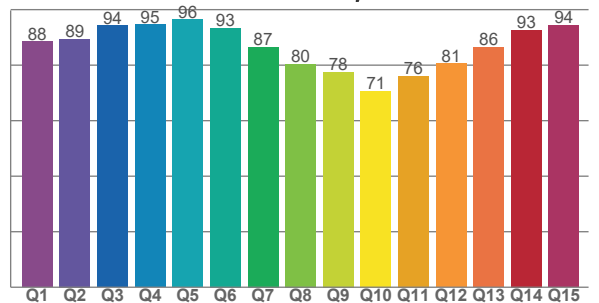
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,0	93,9	88,9	86,3	90,3	88,7	87,0	89,3	92,7	94,8	96,7	94,8	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	94,3	94,6	96,5	93,4	86,6	80,4	77,5	70,7	76,1	80,6	86,5	92,7	94,4

CQS: 84,3



## 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
2646 K	97,0	95,4	92,3	95,2	84,3	96	0,476	0,431	0,0060

## TM30 DETAILS

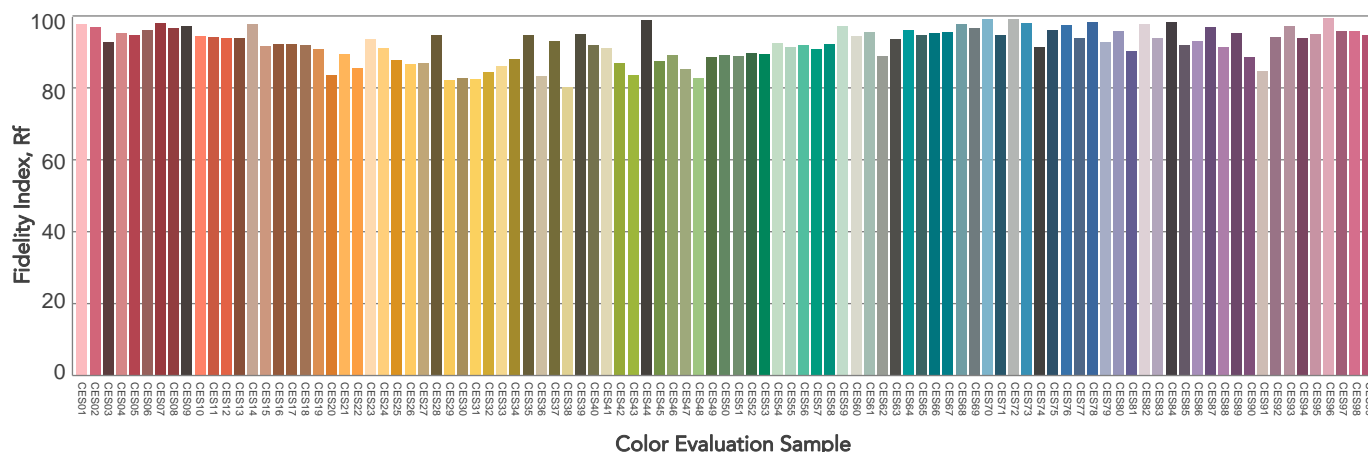
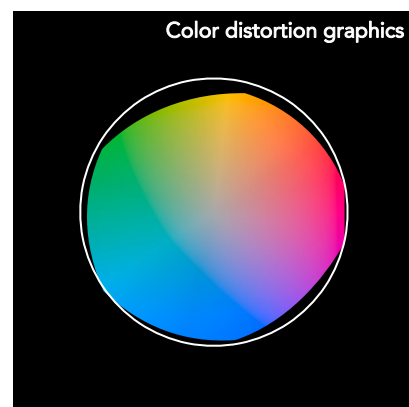
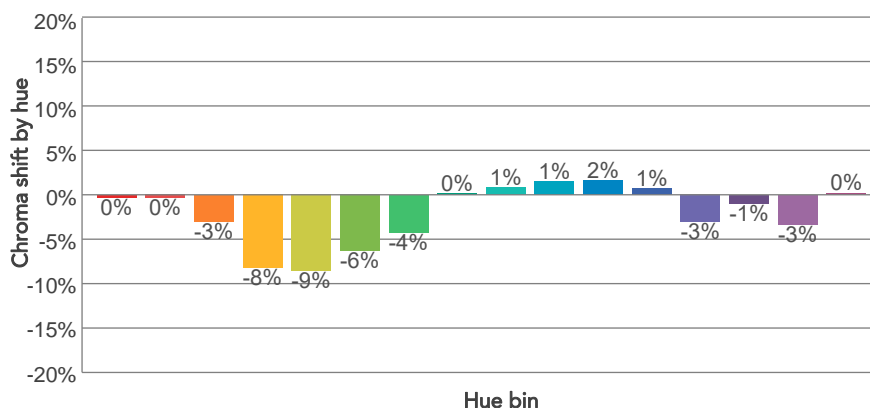
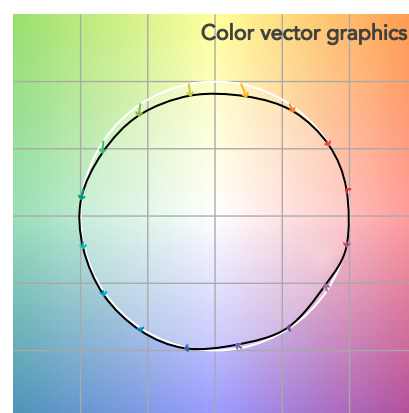
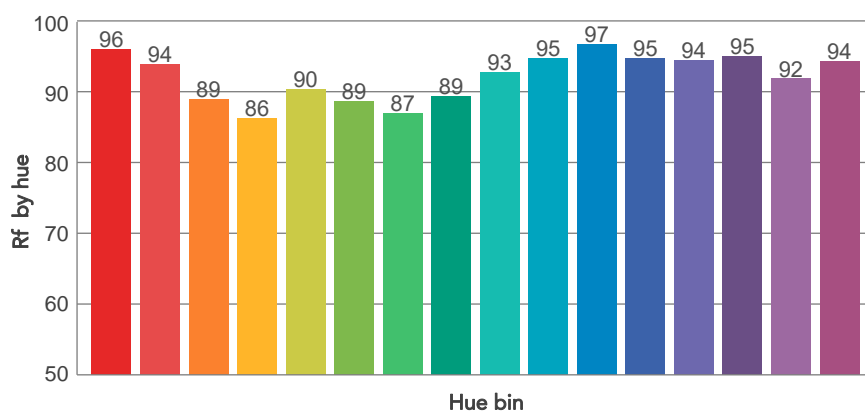
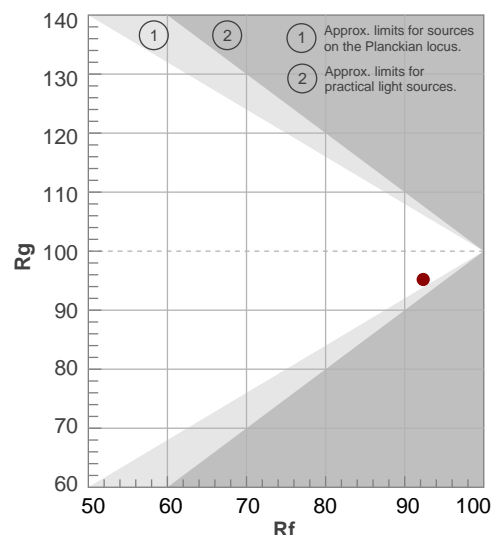
**Rf 92,3**

Fidelity index Rf

**Rg 95,2**

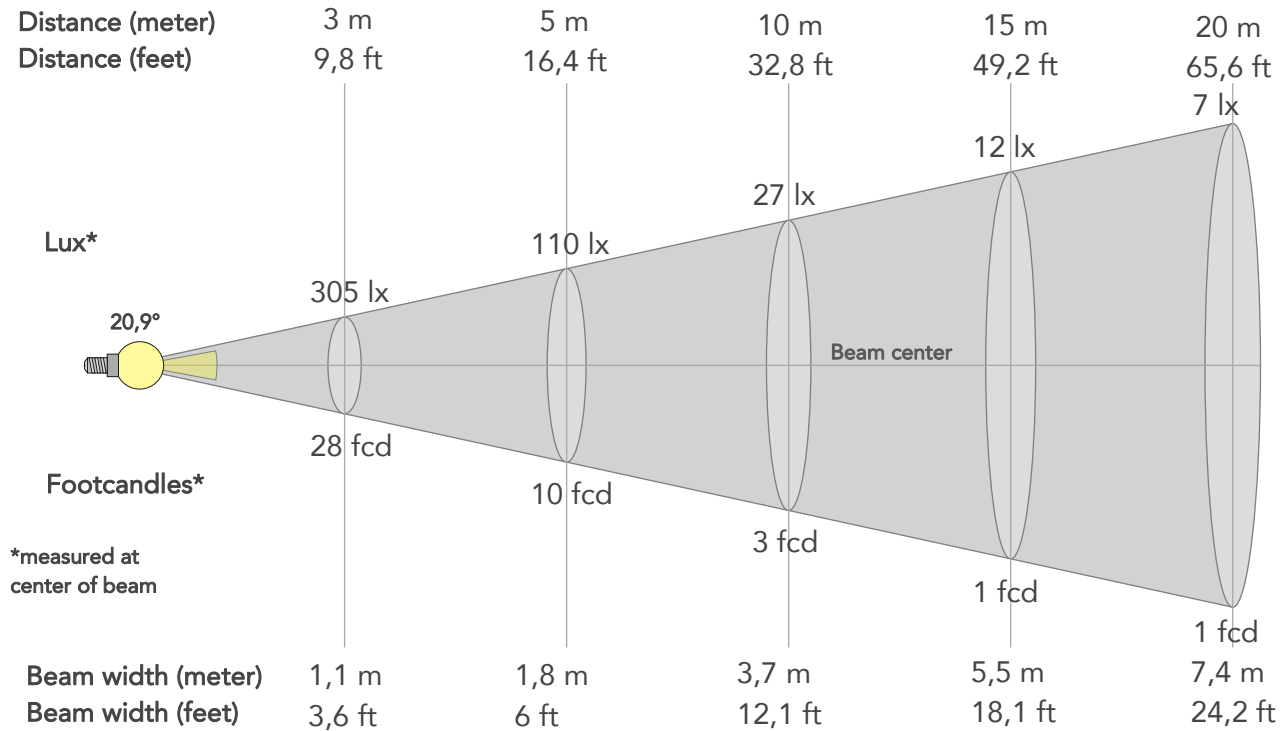
Gammut index

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

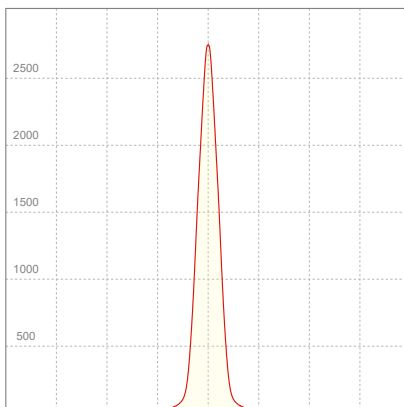
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	36,2°	52,2°	97,4%	94,3%



## 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	2747lx	687lx	305lx	172lx	110lx	49lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	255fcd	64fcd	28fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11,1m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,2ft	30,2ft	36,3ft	48,4ft	60,4ft

## LINEAR DISTRIBUTION DIAGRAM

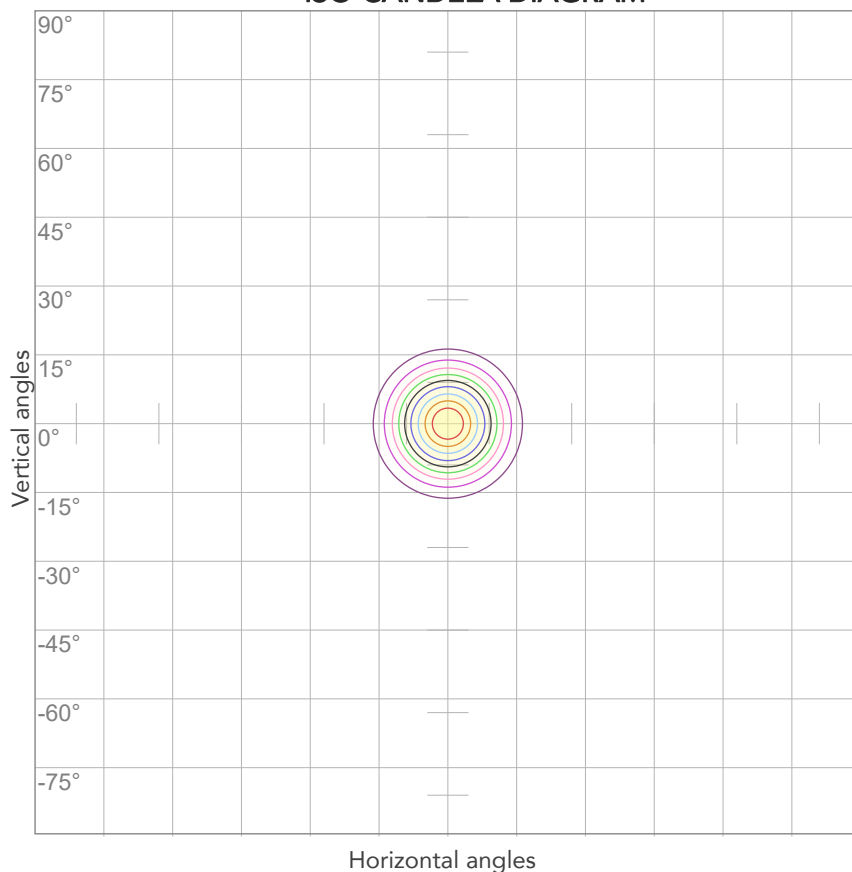


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,106A	12,8W	0,53	35lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



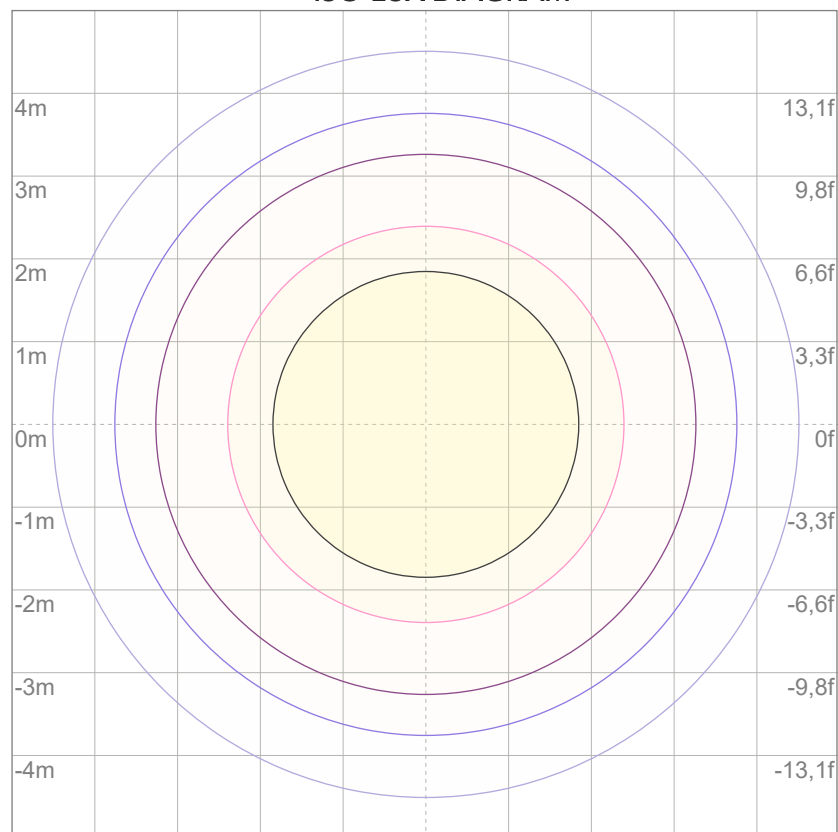
10%	275 cd
20%	549 cd
30%	824 cd
40%	1099 cd
50%	1373 cd
60%	1648 cd
70%	1923 cd
80%	2197 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2747 cd

## ISO LUX DIAGRAM



3%	0,824 lx
5%	1,37 lx
10%	2,75 lx
30%	8,24 lx
50%	13,7 lx

### Conditions:

Number of c-planes: 2

Lux at center: 27,5 lx

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



Total lumen output:

493 lm

Peak candela output:

2991 cd

Light quality:

CRI: 97,1

Color temperature:

2813 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

25°

Target:

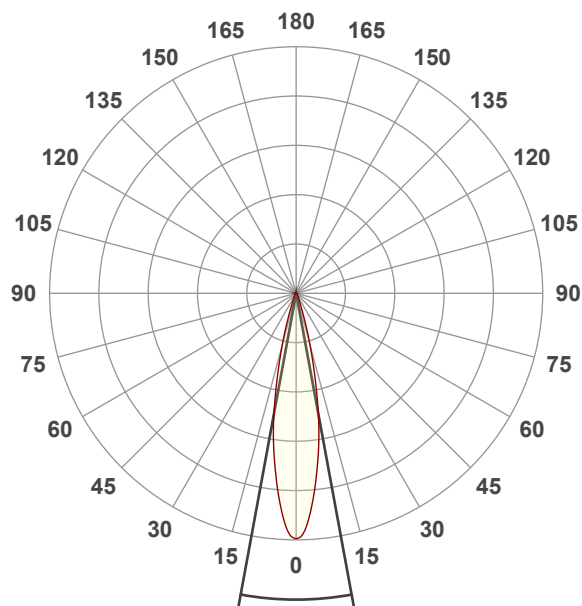
2800K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 12:44:43

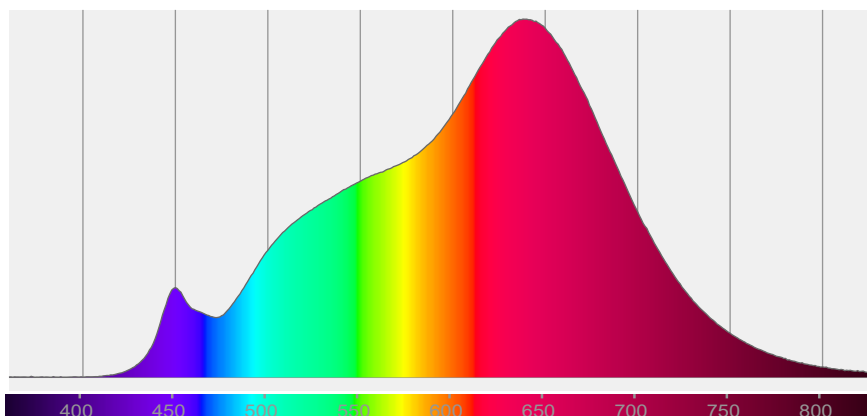


Beam angle 50%: 20,9°

Field angle 10%: 36,2°

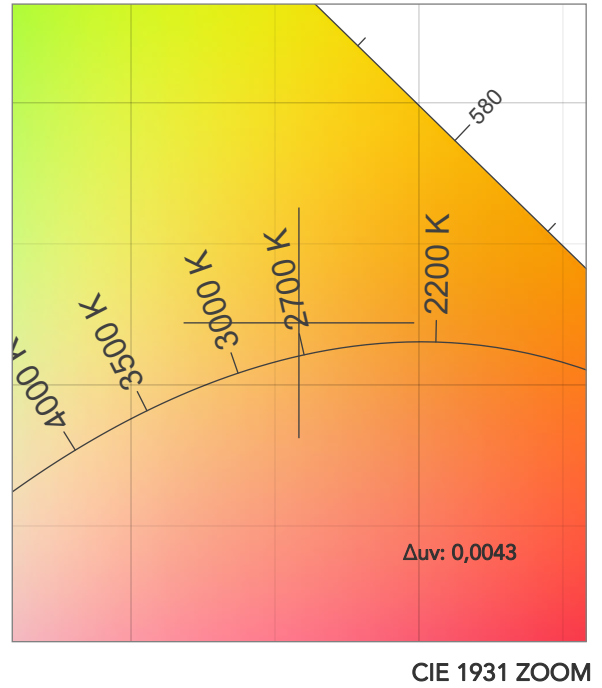
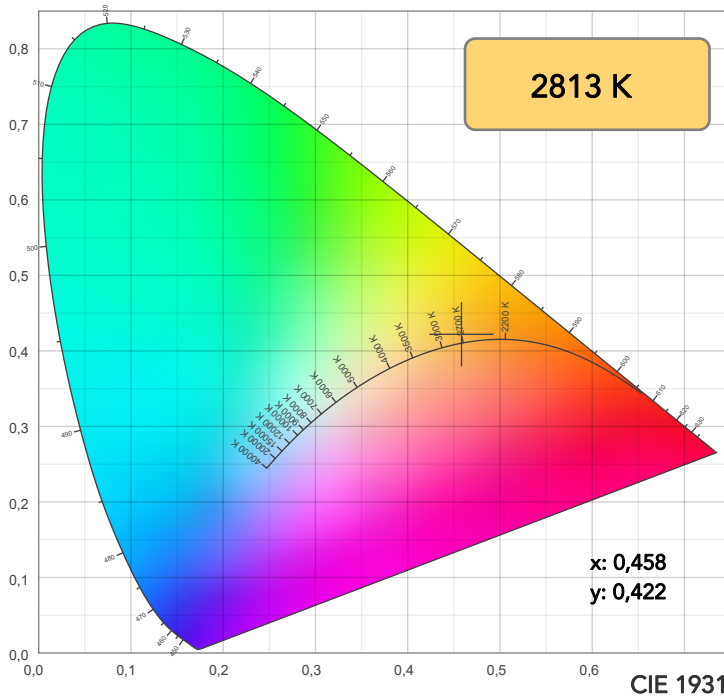
Cut off angle 2.5%: 52,2°

**Spectra**

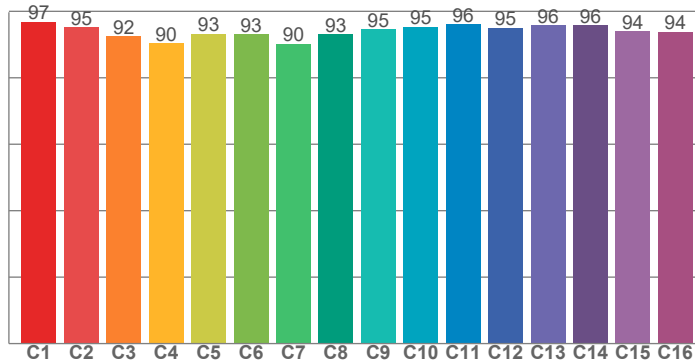




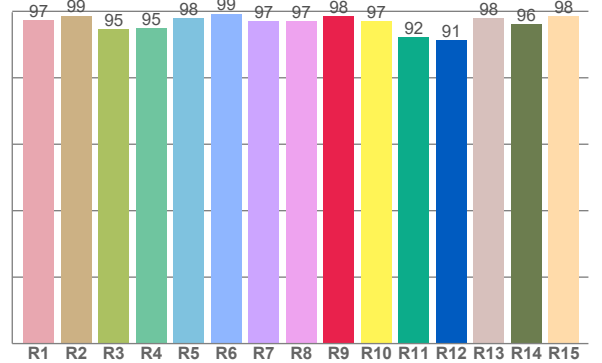
# COLOR DETAILS



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	94,7	94,9	97,9	99,2	97,0	96,9	98,5	97,1	92,2	91,4	97,9	96,2	98,5

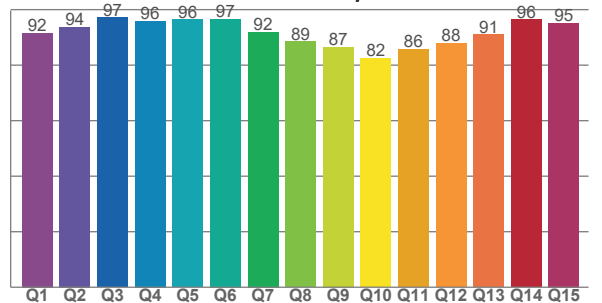
TM30 C values, 16 binned values out of total of 99 C values

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	90,1	93,1	94,6	95,3	96,1	95,0	95,8	95,8	93,9	93,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,5	93,7	97,1	95,8	96,5	96,5	92,0	88,6	86,6	82,5	85,7	87,9	91,1	96,5	95,1

CQS: 90,4



## 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	$\Delta uv$
2813 K	97,1	98,5	94,1	98,1	90,4	98	0,458	0,422	0,0043

## TM30 DETAILS

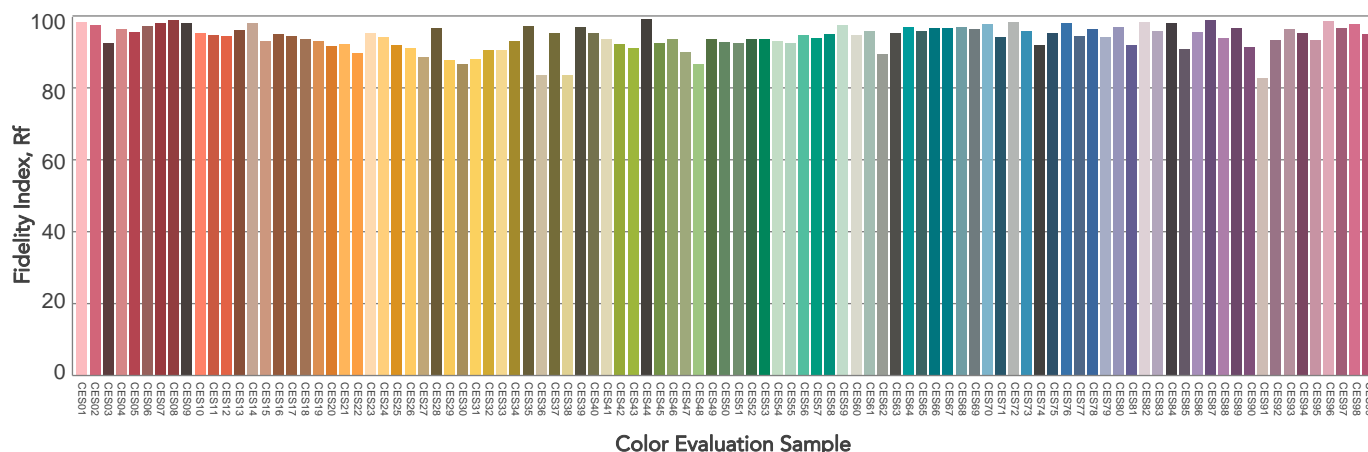
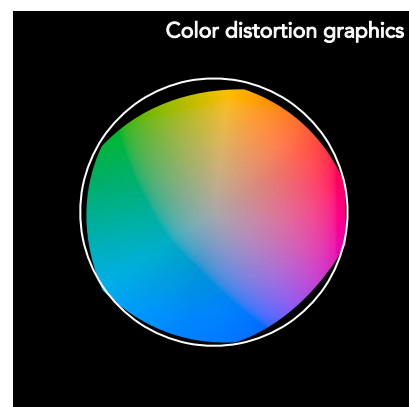
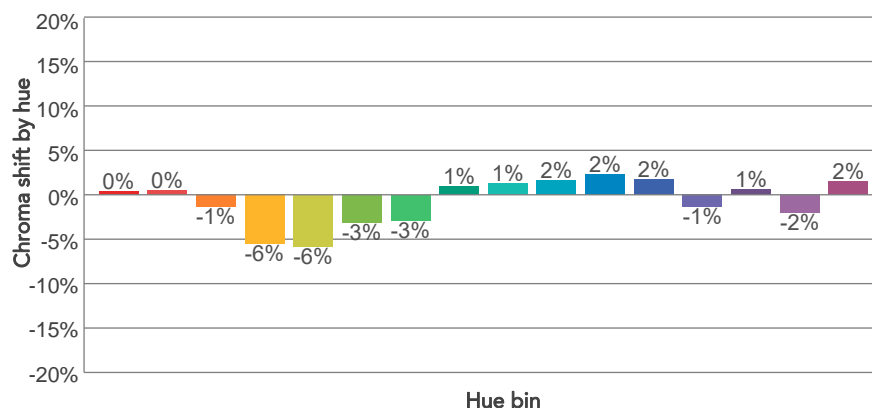
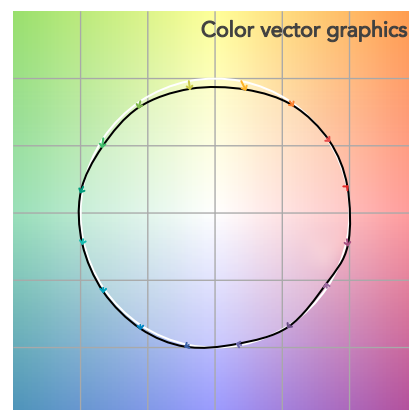
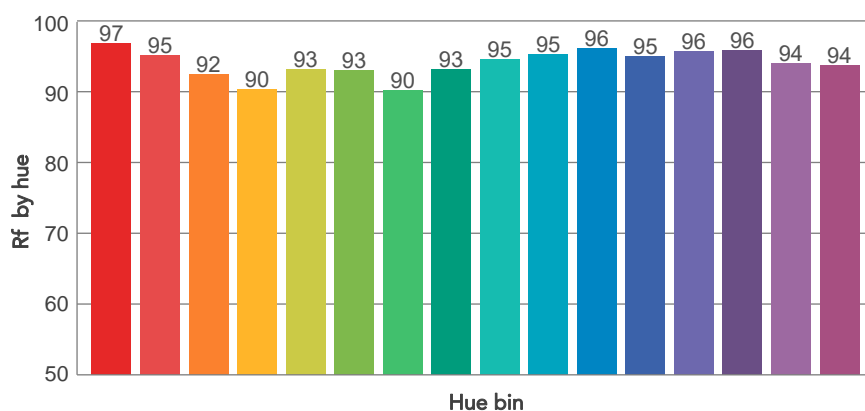
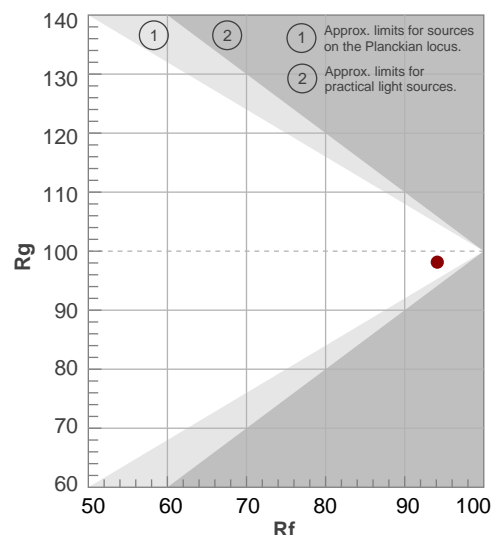
**Rf 94,1**

Fidelity index Rf

**Rg 98,1**

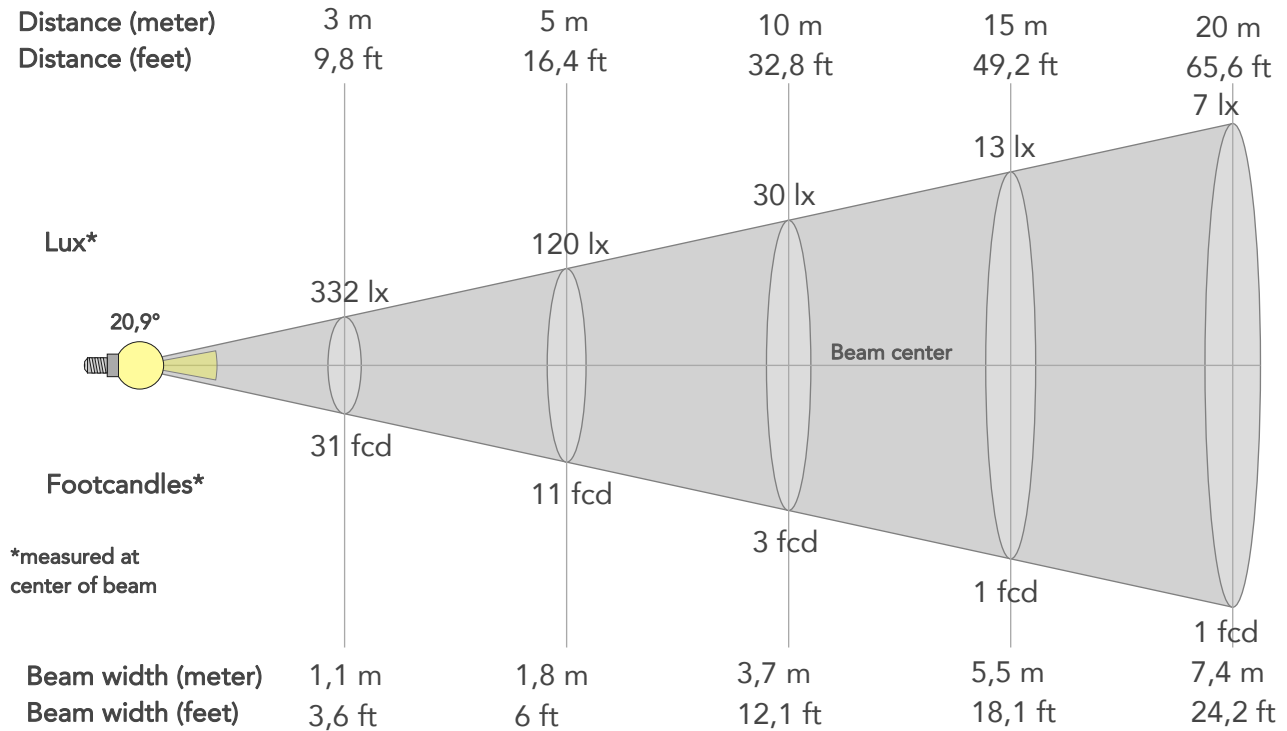
Gammut index

		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

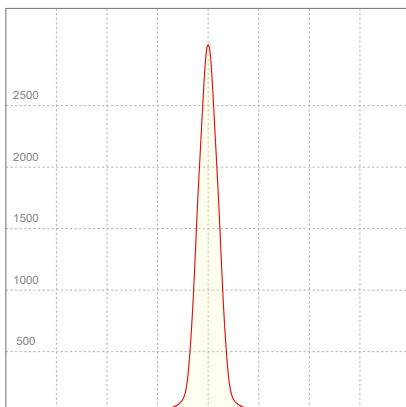
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	36,2°	52,2°	97,4%	94,4%



## 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	2991lx	748lx	332lx	187lx	120lx	53lx	30lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	278fcd	69fcd	31fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,2ft	30,2ft	36,2ft	48,3ft	60,4ft

## LINEAR DISTRIBUTION DIAGRAM

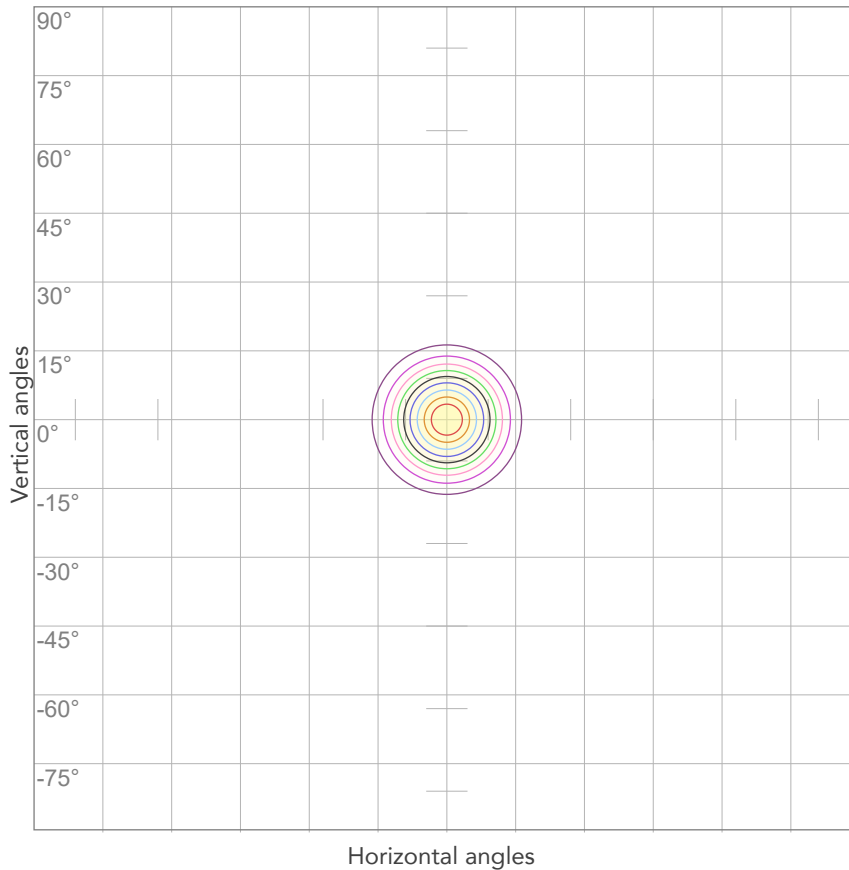


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,110A	13,6W	0,54	36lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



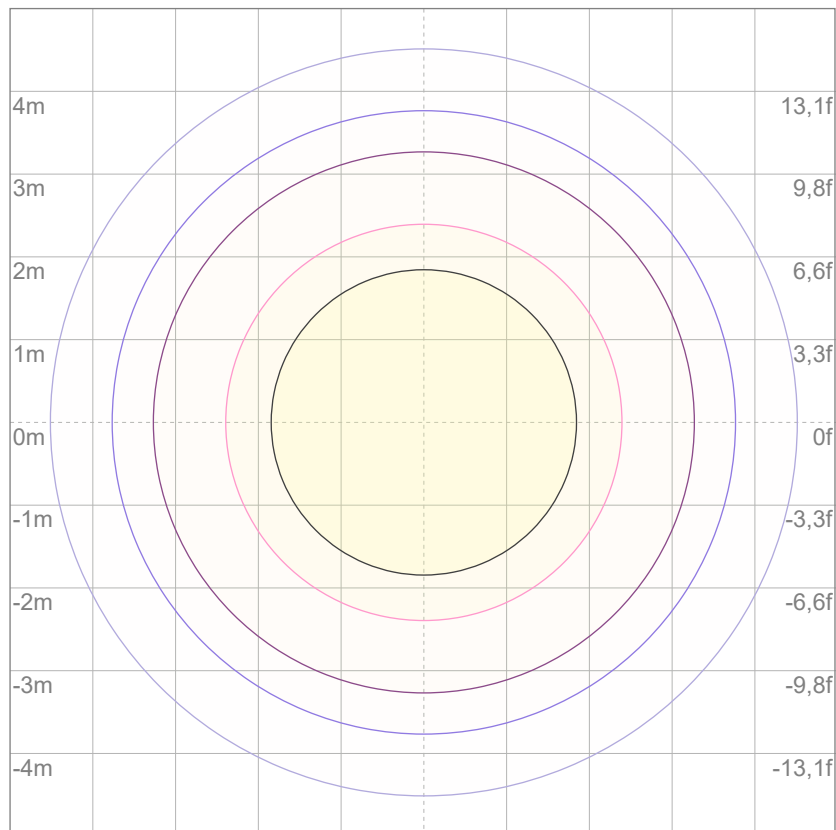
10%	299 cd
20%	598 cd
30%	897 cd
40%	1196 cd
50%	1495 cd
60%	1795 cd
70%	2094 cd
80%	2393 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2991 cd

## ISO LUX DIAGRAM



3%	0,897 lx
5%	1,50 lx
10%	2,99 lx
30%	8,97 lx
50%	15,0 lx

### Conditions:

Number of c-planes: 2

Lux at center: 29,9 lx

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



Total lumen output:

601 lm

Peak candela output:

3626 cd

Light quality:

CRI: 95,8

Color temperature:

3216 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

25°

Target:

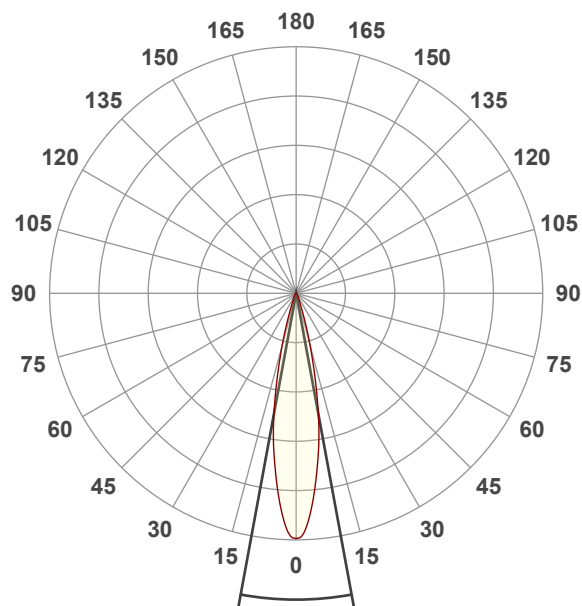
3200K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 12:46:21

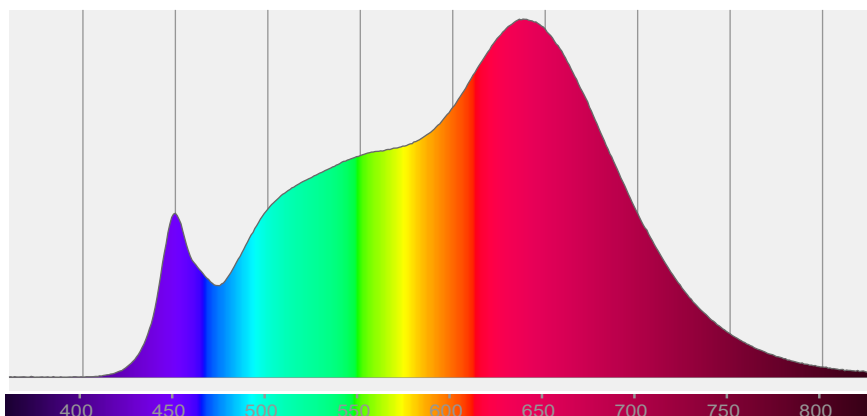


Beam angle 50%: 20,9°

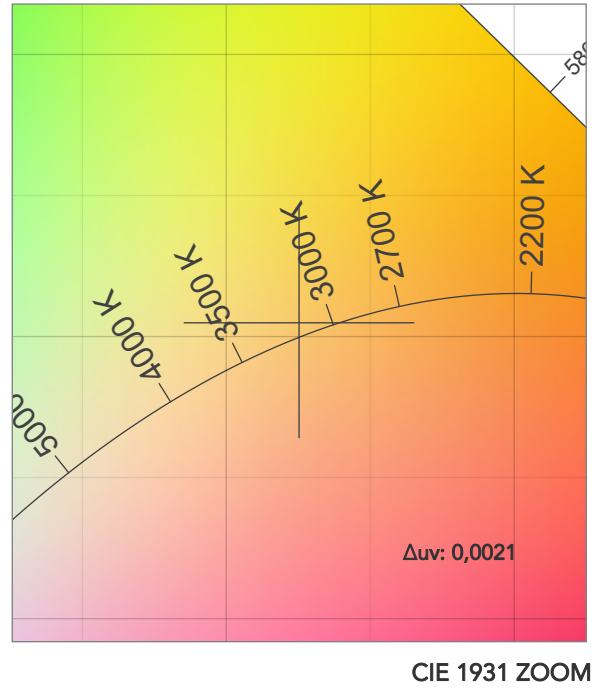
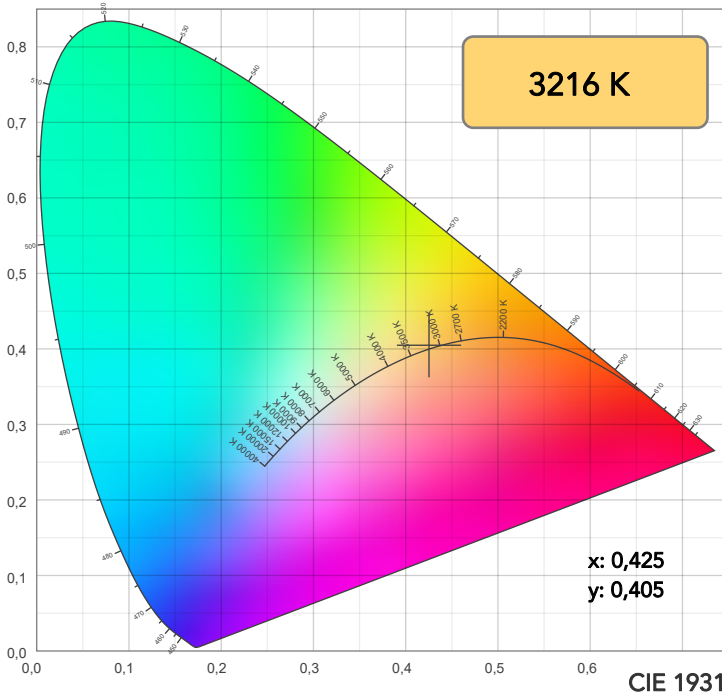
Field angle 10%: 36,2°

Cut off angle 2.5%: 52,1°

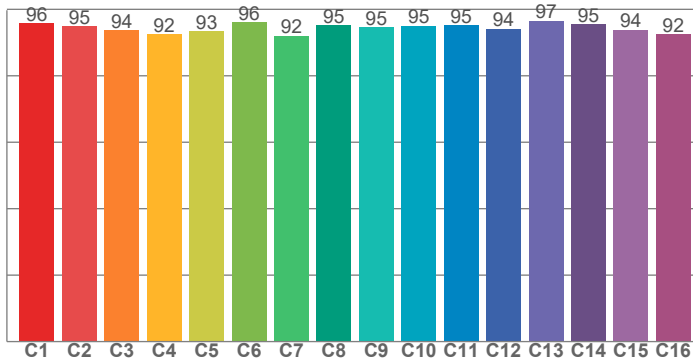
**Spectra**



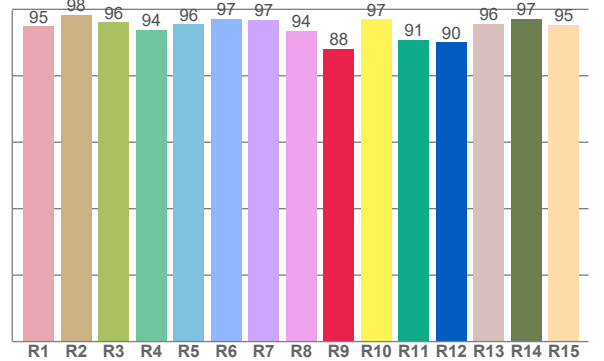
# COLOR DETAILS



TM30: 94,5



CRI: 95,8 (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
95,0	98,3	96,2	93,8	95,6	97,2	96,9	93,6	88,1	97,1	90,9	90,1	95,6	97,1	95,4

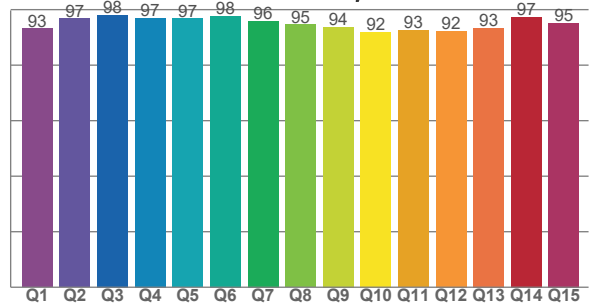
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 94,5



## COLOR PARAMETERS

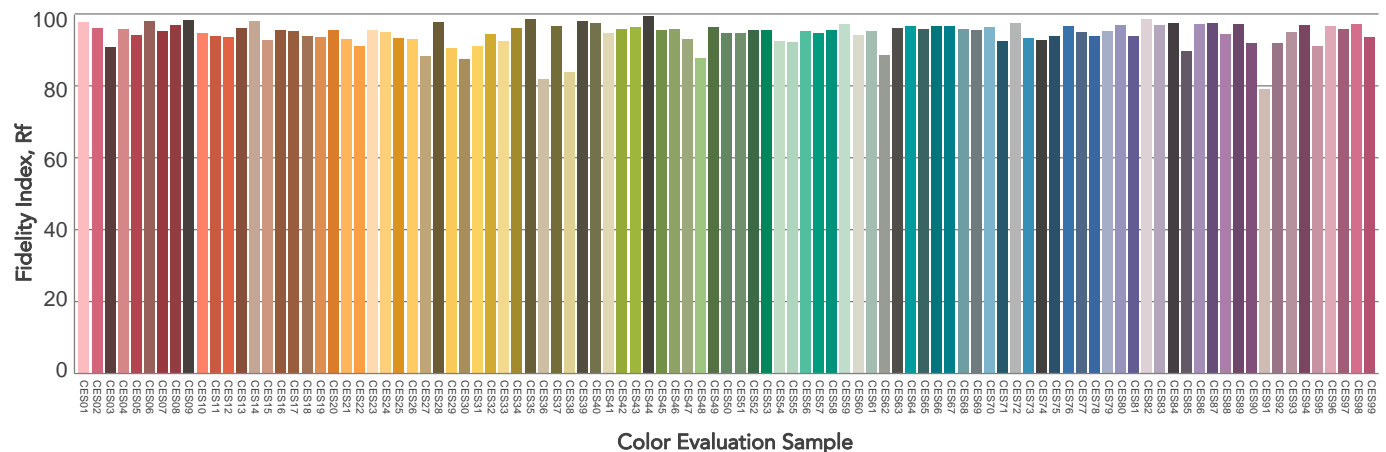
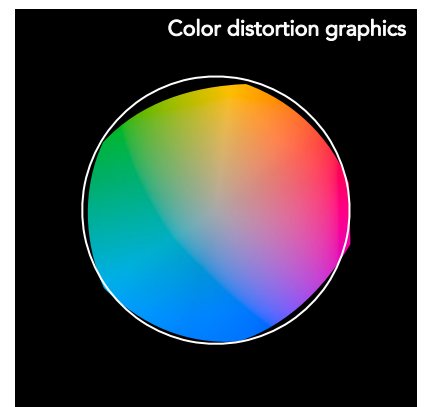
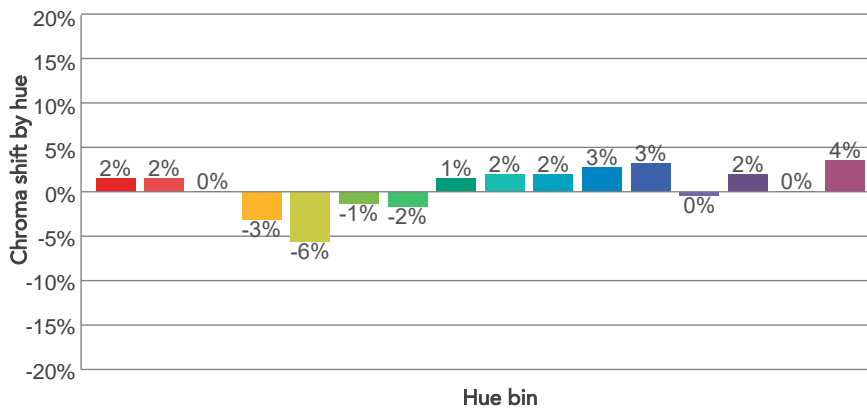
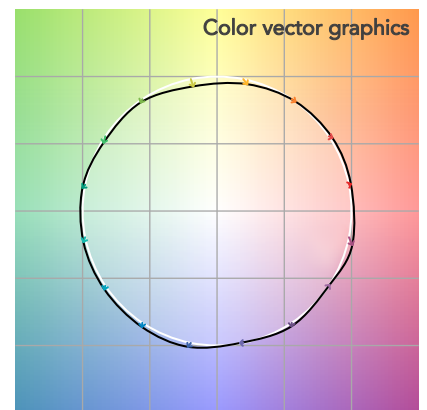
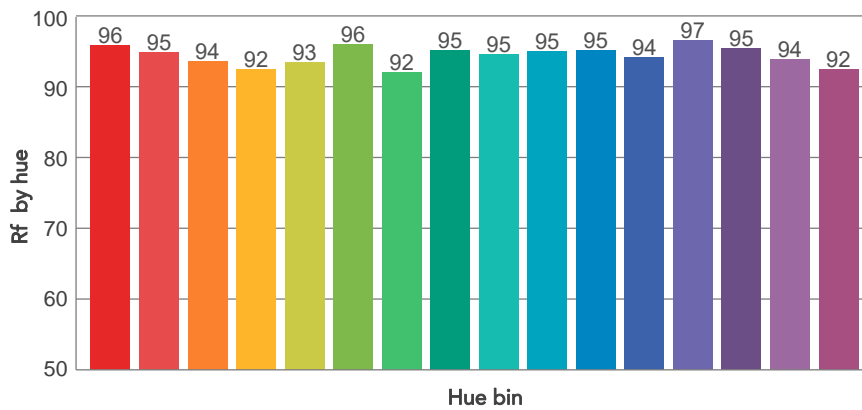
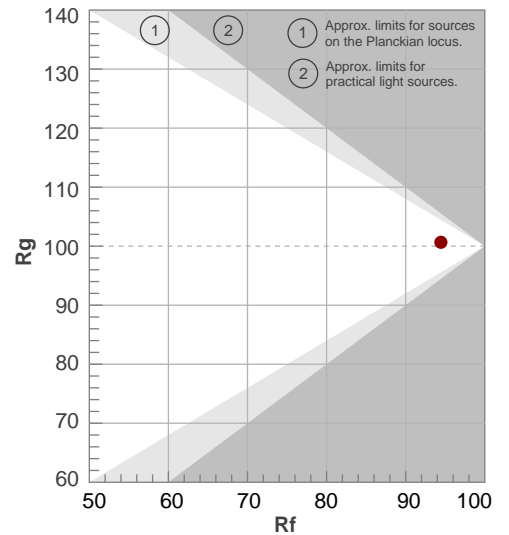
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
3216 K	95,8	88,1	94,5	100,7	94,5	99	0,425	0,405	0,0021

# TM30 DETAILS

**Rf 94,5**  
Fidelity index Rf

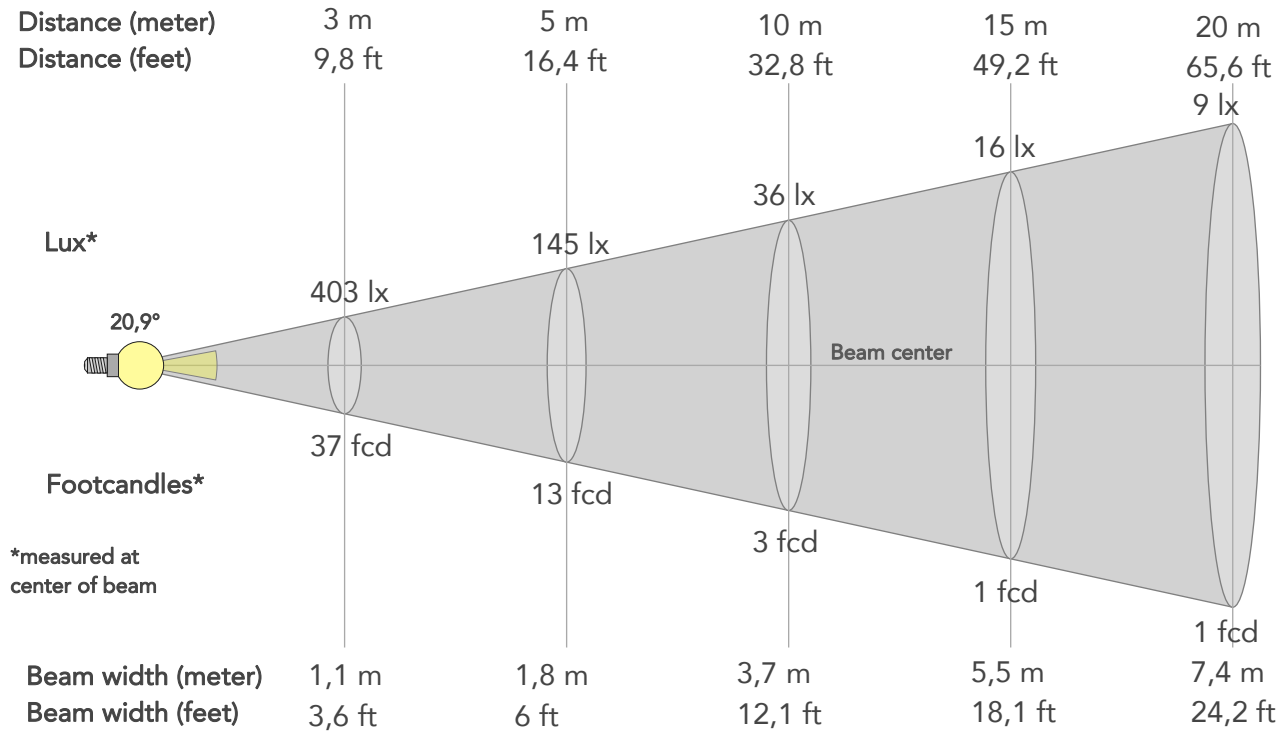
**Rg 100,7**  
Gammut index

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

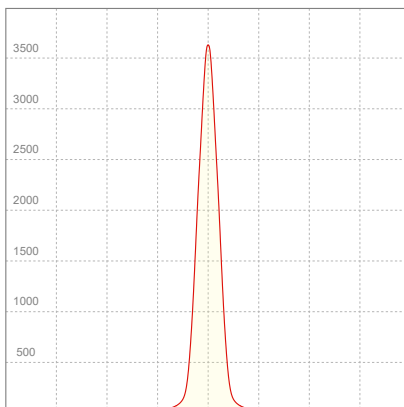
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	36,2°	52,1°	97,2%	94,1%



## 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	3626lx	907lx	403lx	227lx	145lx	64lx	36lx	16lx	9lx	6lx	4lx	2lx	1lx
Footcand.	337fcd	84fcd	37fcd	21fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,2ft	30,2ft	36,2ft	48,3ft	60,4ft

## LINEAR DISTRIBUTION DIAGRAM



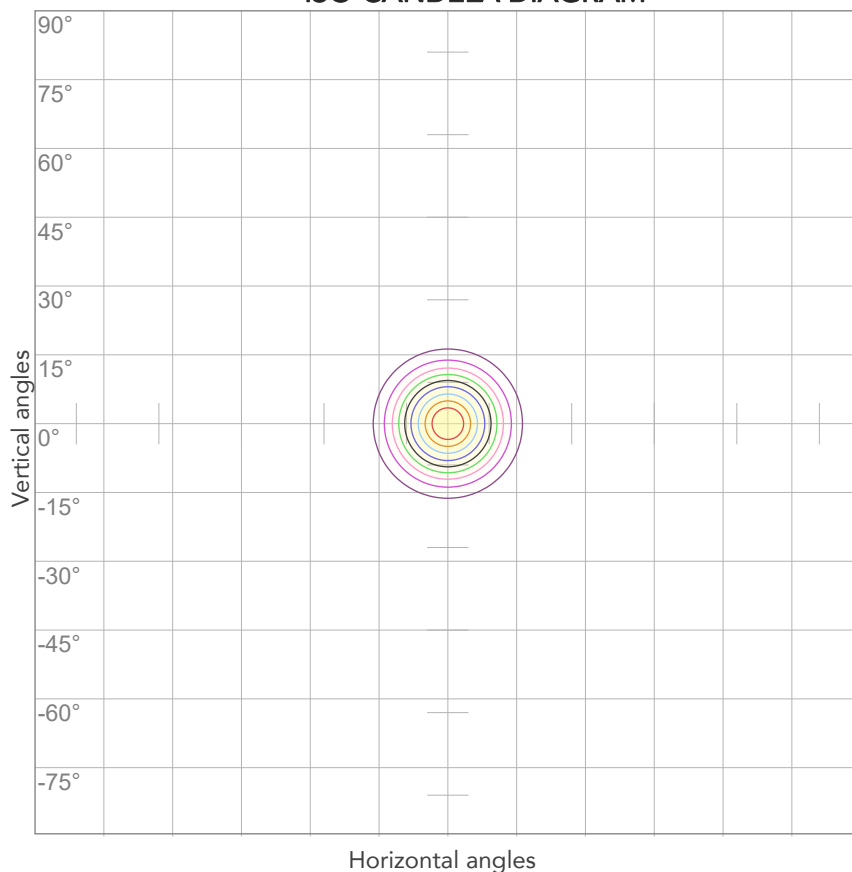
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,122A	15,5W	0,55	39lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



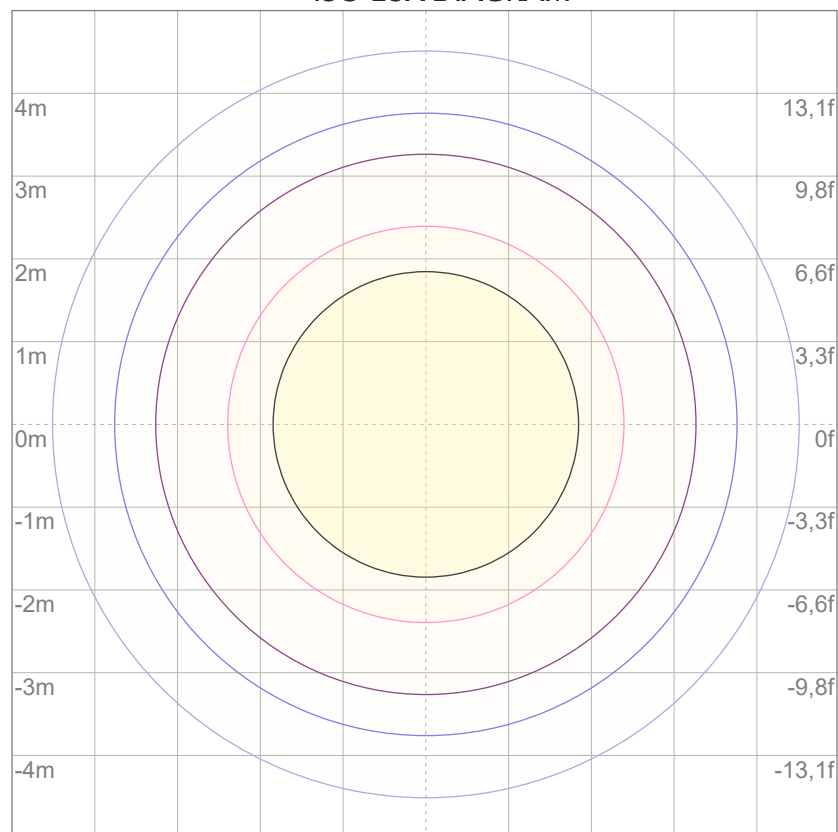
10%	363 cd
20%	725 cd
30%	1088 cd
40%	1451 cd
50%	1813 cd
60%	2176 cd
70%	2538 cd
80%	2901 cd

### Conditions:

Number of c-planes: 2

Candela at center: 3626 cd

## ISO LUX DIAGRAM



3%	1,09 lx
5%	1,81 lx
10%	3,63 lx
30%	10,9 lx
50%	18,1 lx

### Conditions:

Number of c-planes: 2

Lux at center: 36,3 lx

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



Total lumen output:

698 lm

Peak candela output:

4174 cd

Light quality:

CRI: 95,2

Color temperature:

4043 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

25°

Target:

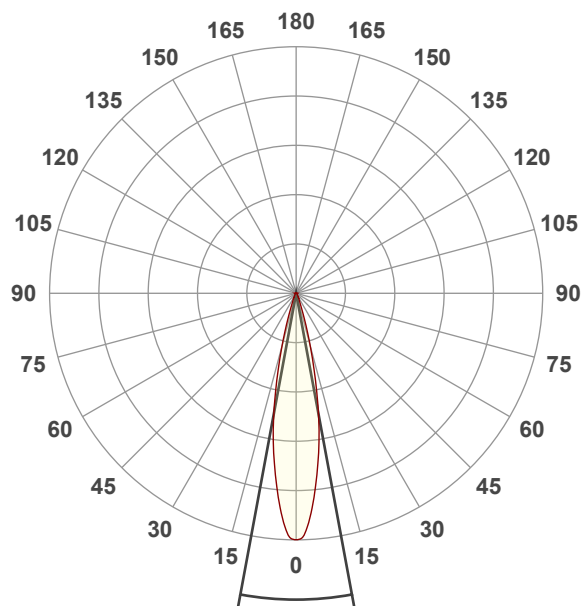
4000K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 12:48:27

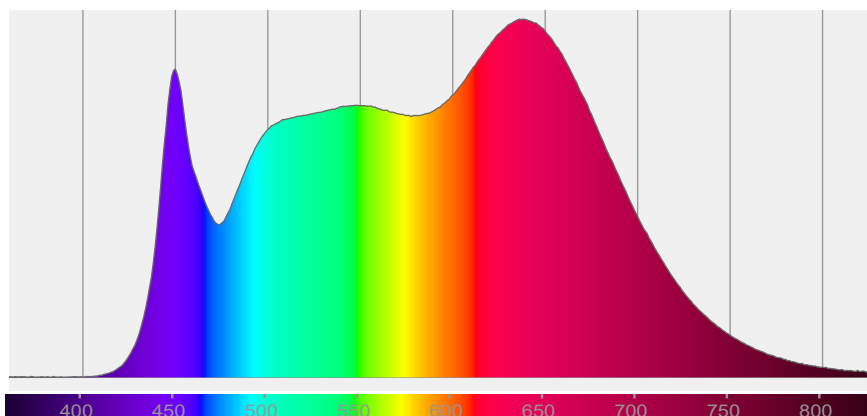


Beam angle 50%: 21°

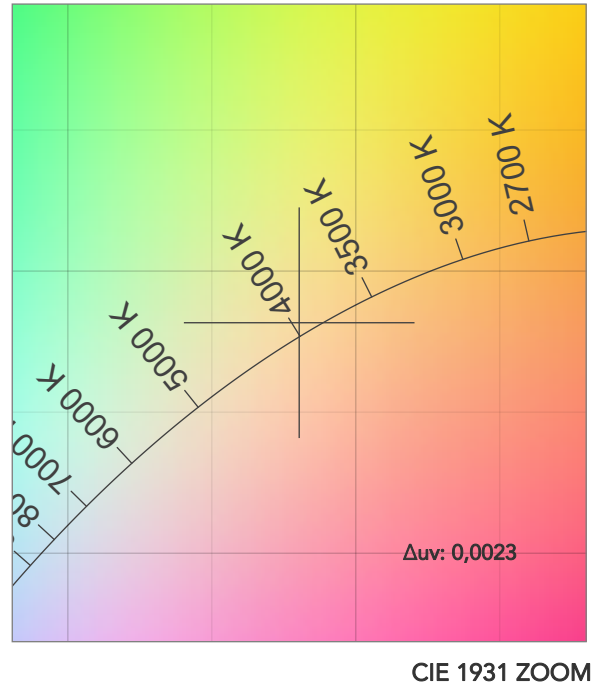
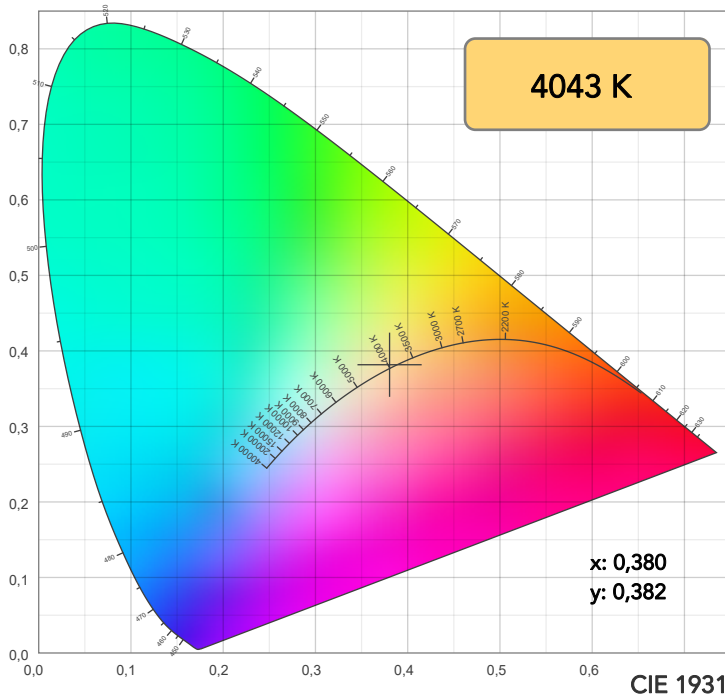
Field angle 10%: 36,5°

Cut off angle 2.5%: 52,3°

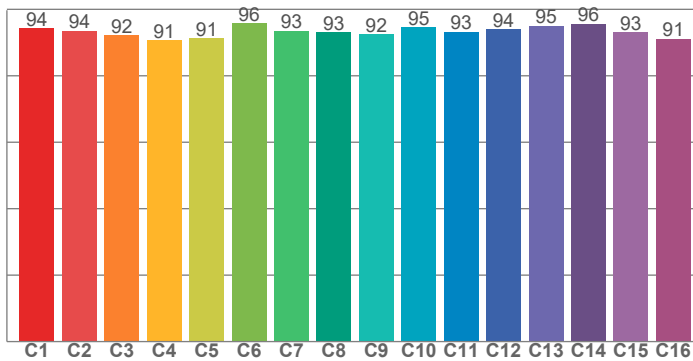
**Spectra**



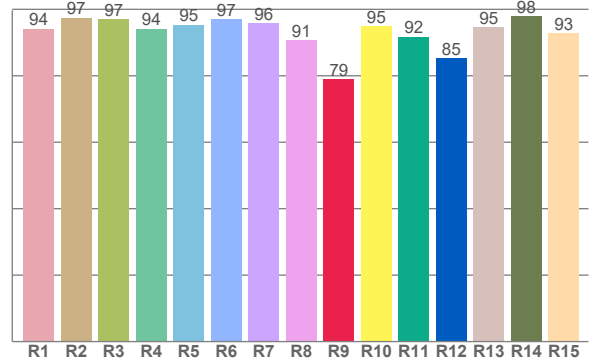
## COLOR DETAILS



TM30: 93,1



CRI: 95,2 (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
94,2	97,5	97,1	94,2	95,3	97,1	95,7	90,8	79,0	94,8	91,8	85,2	94,6	97,8	92,8

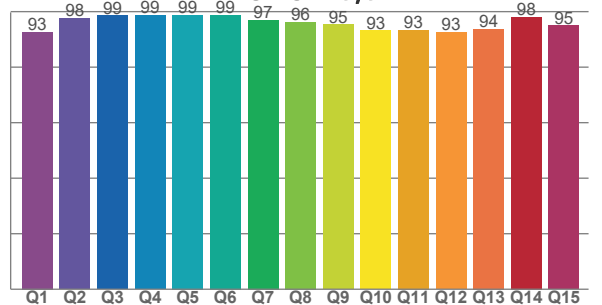
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	93,6	92,2	90,7	91,3	95,7	93,5	93,1	92,4	94,6	93,3	94,0	95,1	95,7	93,0	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	94,9

CQS: 95,3



## COLOR PARAMETERS

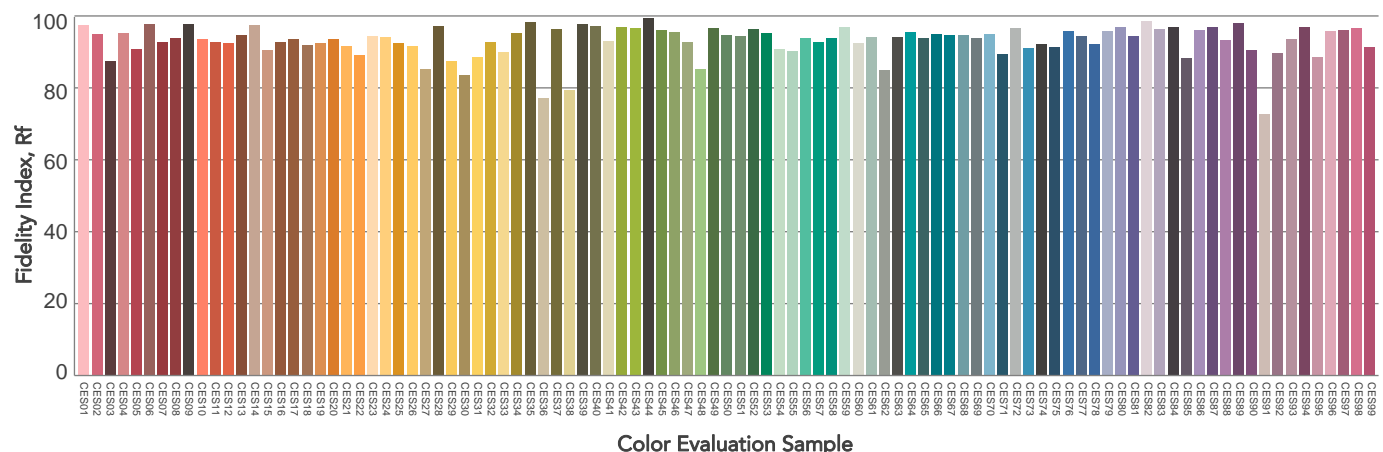
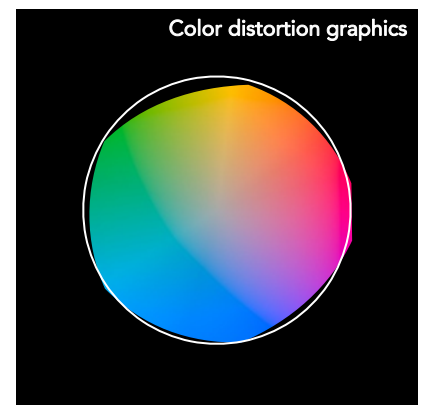
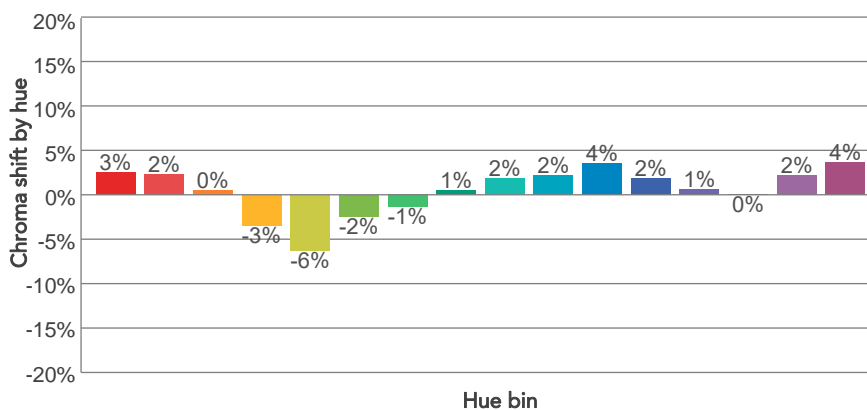
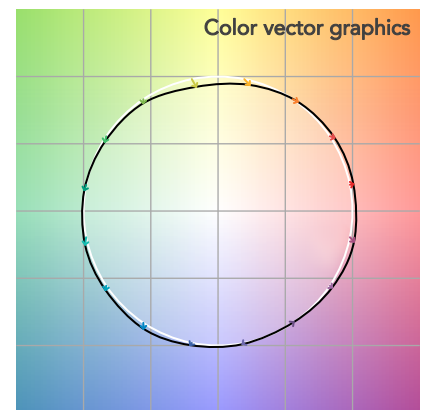
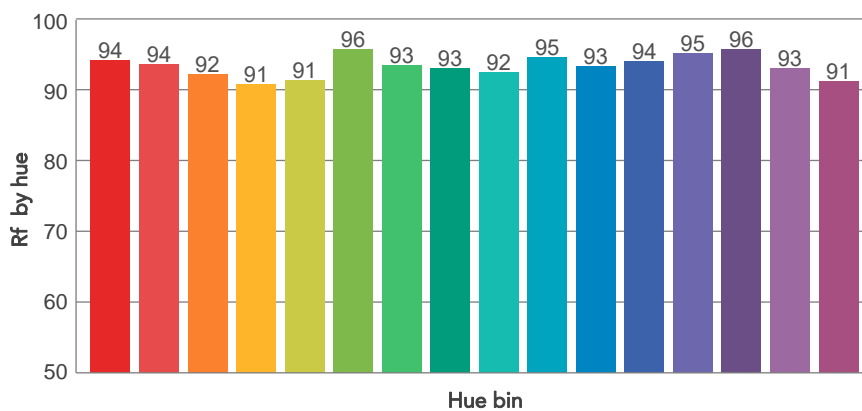
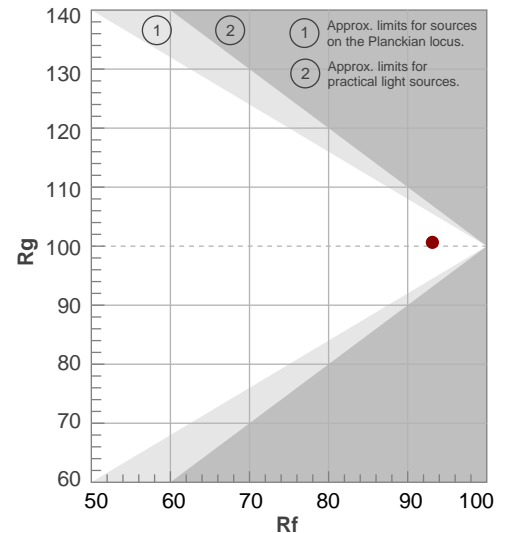
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4043 K	95,2	79,0	93,1	100,6	95,3	99	0,380	0,382	0,0023

# TM30 DETAILS

**Rf 93,1**  
Fidelity index Rf

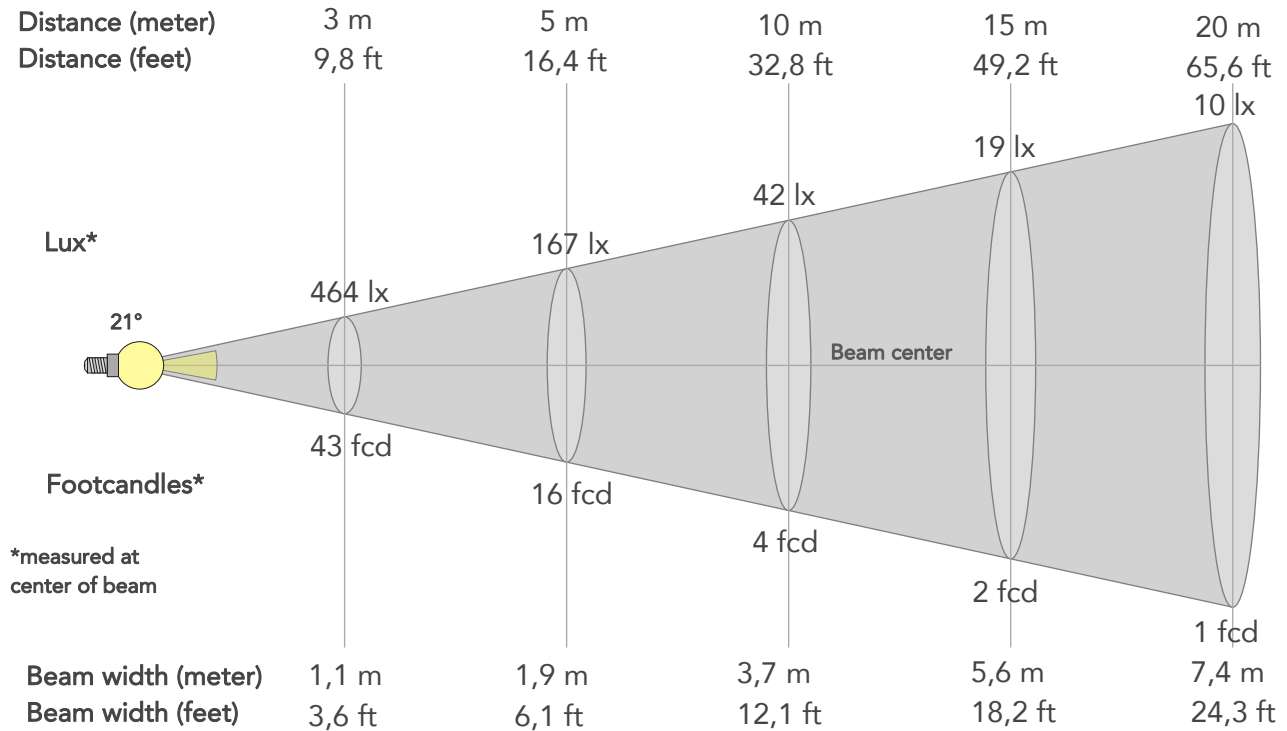
**Rg 100,6**  
Gammut index

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	93	-1%	4%
8	93	1%	4%
9	92	2%	5%
10	95	2%	2%
11	93	4%	2%
12	94	2%	-1%
13	95	1%	-1%
14	96	0%	1%
15	93	2%	0%
16	91	4%	-3%



# BEAM DETAILS

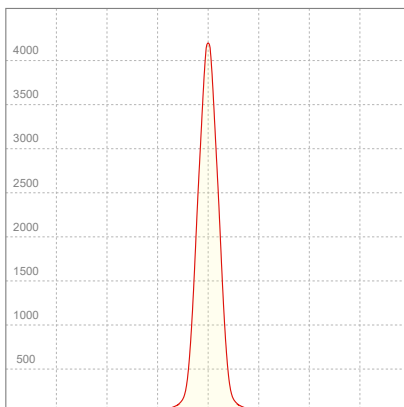
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21°	36,5°	52,3°	97,3%	94,2%



## 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	4174lx	1043lx	464lx	261lx	167lx	74lx	42lx	19lx	10lx	7lx	5lx	3lx	2lx
Footcand.	388fcd	97fcd	43fcd	24fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,9m	2,8m	3,7m	5,6m	7,4m	9,3m	11,1m	14,8m	18,5m
Beam wid.	1,2ft	2,4ft	3,6ft	4,9ft	6,1ft	9,1ft	12,1ft	18,2ft	24,3ft	30,4ft	36,4ft	48,6ft	60,7ft

## LINEAR DISTRIBUTION DIAGRAM

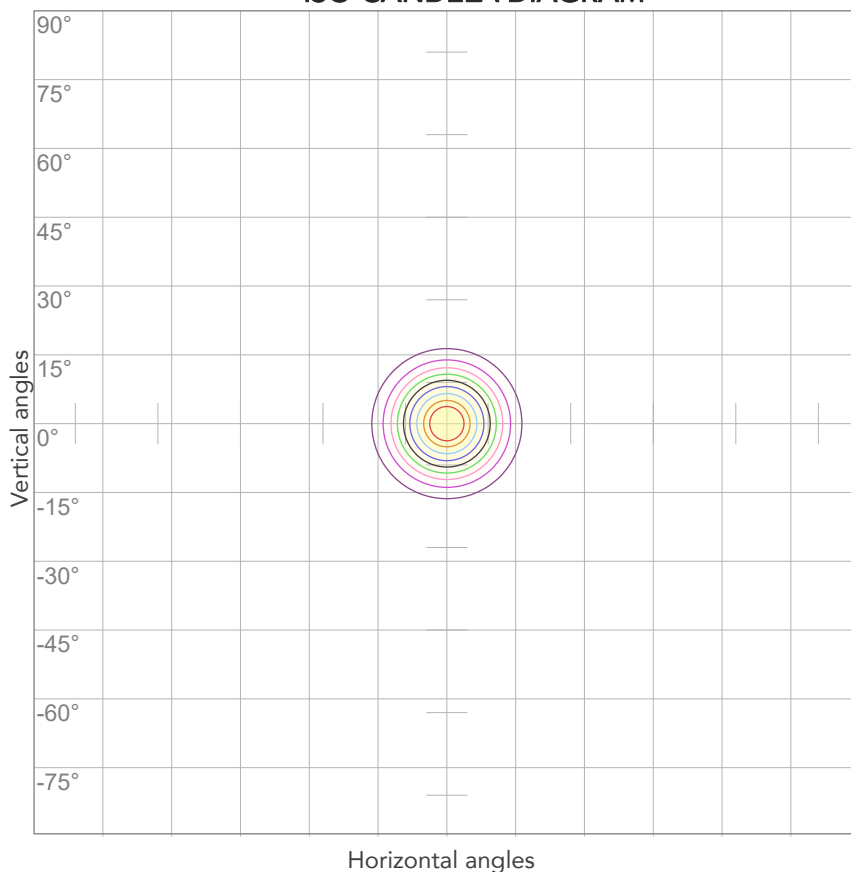


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,133A	16,6W	0,55	42lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



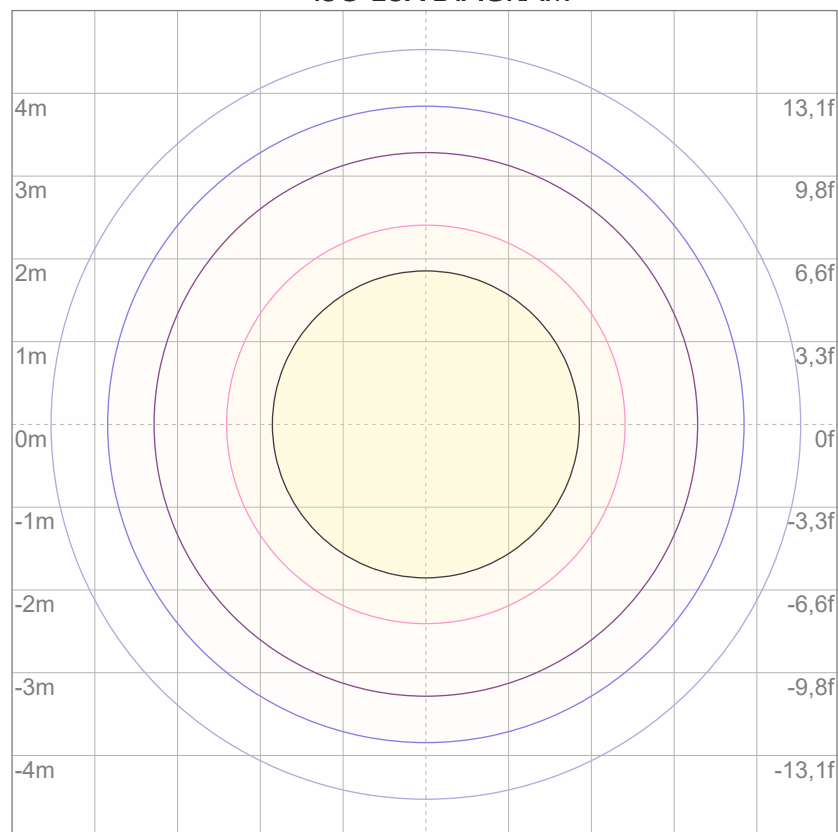
10%	417 cd
20%	835 cd
30%	1252 cd
40%	1669 cd
50%	2087 cd
60%	2504 cd
70%	2922 cd
80%	3339 cd

### Conditions:

Number of c-planes: 2

Candela at center: 4174 cd

## ISO LUX DIAGRAM



3%	1,25 lx
5%	2,09 lx
10%	4,17 lx
30%	12,5 lx
50%	20,9 lx

### Conditions:

Number of c-planes: 2

Lux at center: 41,7 lx

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



Total lumen output:

776 lm

Peak candela output:

4731 cd

Light quality:

CRI: 97,8

Color temperature:

5619 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

25°

Target:

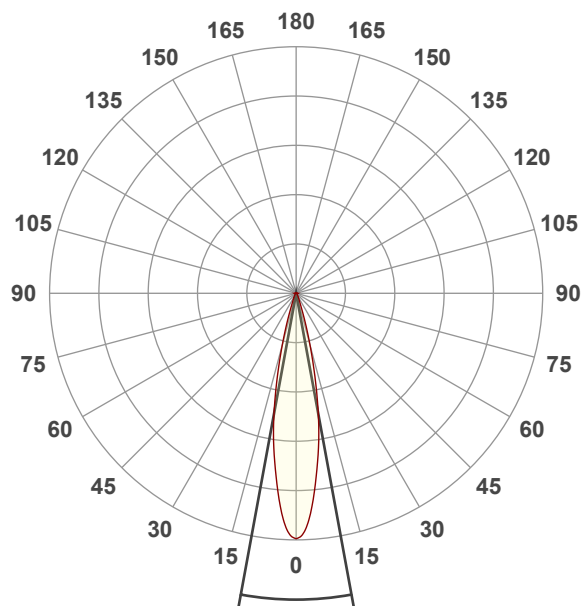
5600K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 13:05:20

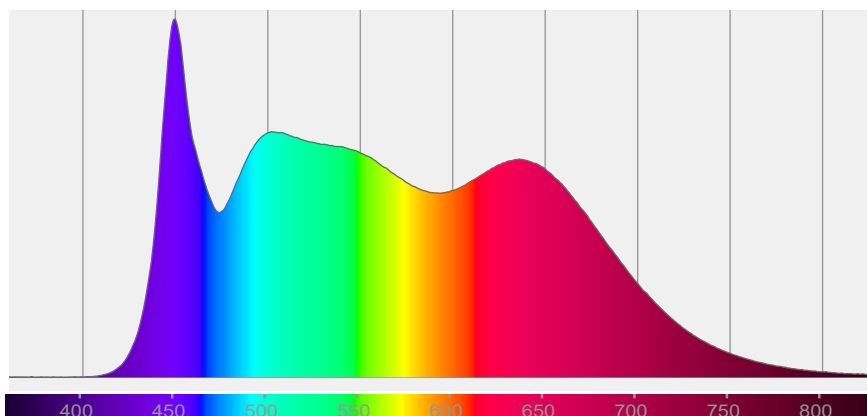


Beam angle 50%: 20,8°

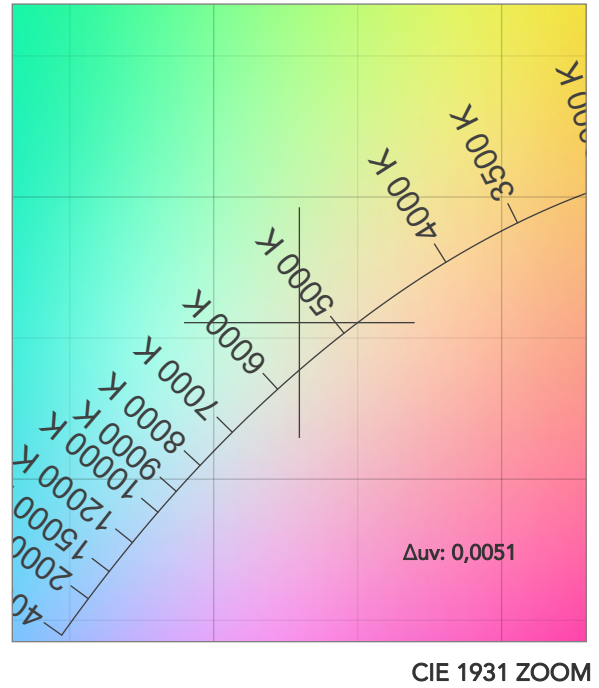
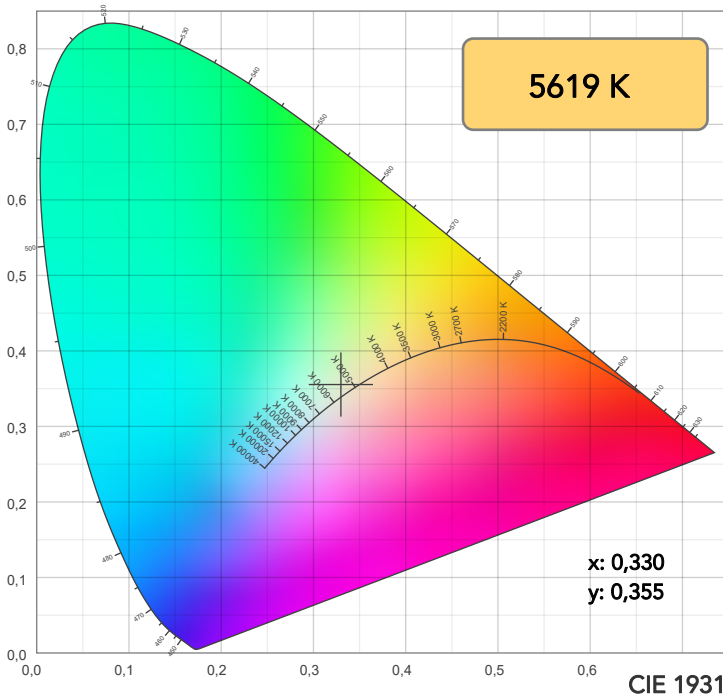
Field angle 10%: 36,2°

Cut off angle 2.5%: 51,9°

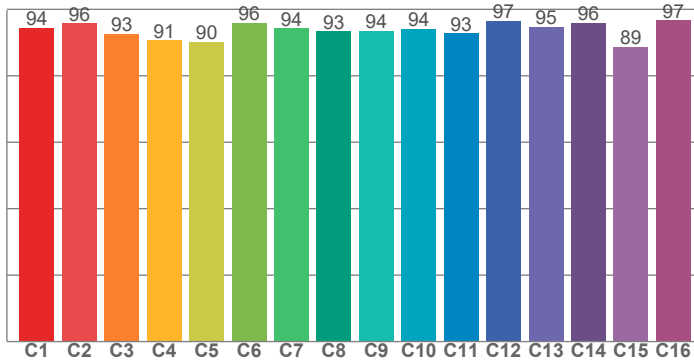
**Spectra**



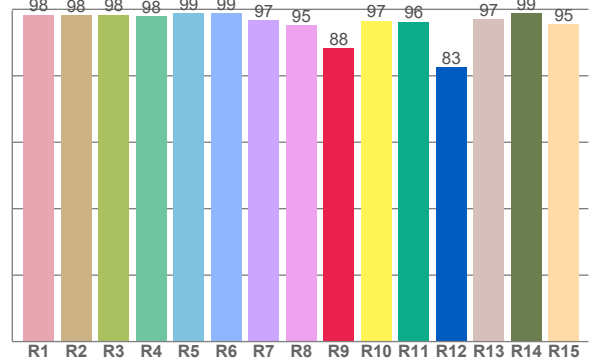
# COLOR DETAILS



**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
98,4	98,1	98,4	97,9	98,9	98,8	96,7	95,2	88,3	96,6	96,3	82,7	96,9	98,9	95,5

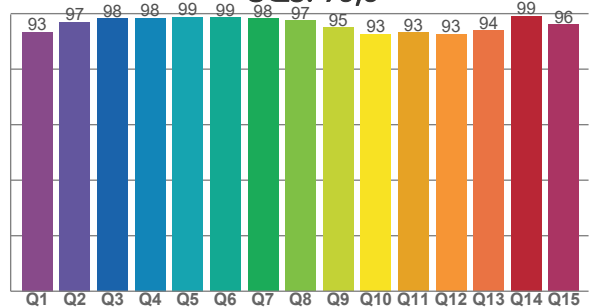
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	95,8	92,7	90,6	90,2	95,9	94,2	93,4	93,5	94,1	92,8	96,5	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
93,4	97,0	98,2	98,4	98,7	98,5	98,2	97,5	94,9	92,7	93,2	92,7	93,8	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
5619 K	97,8	88,3	93,4	99,5	95,5	97	0,330	0,355	0,0051



## TM30 DETAILS

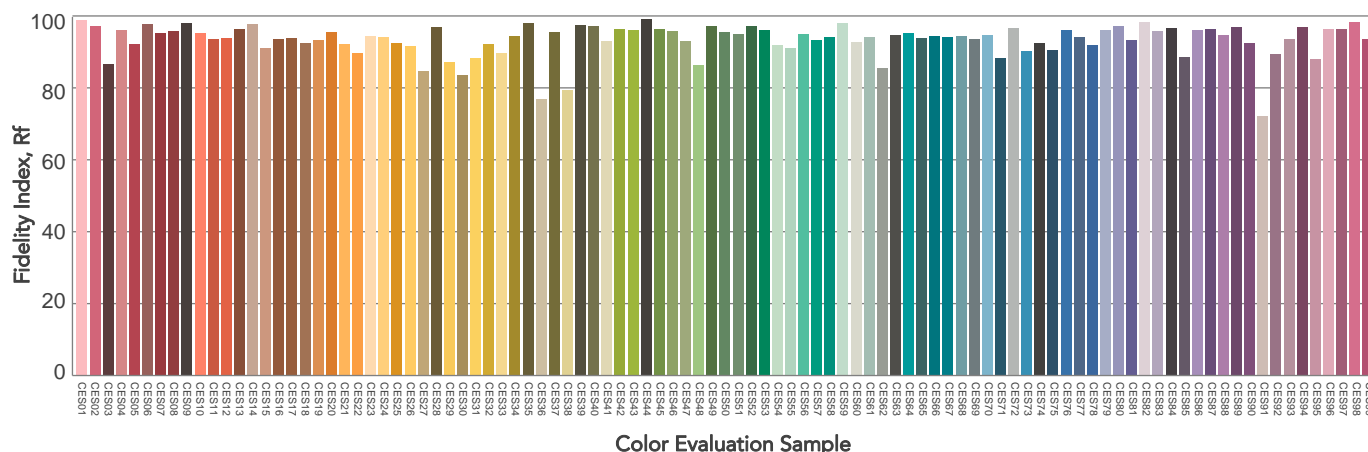
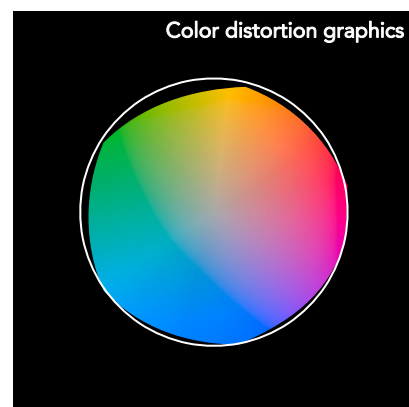
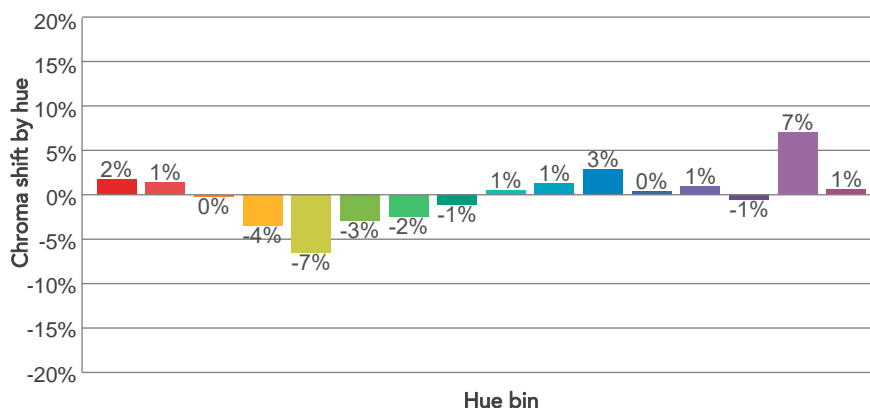
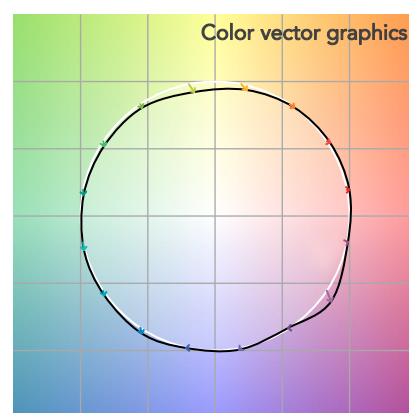
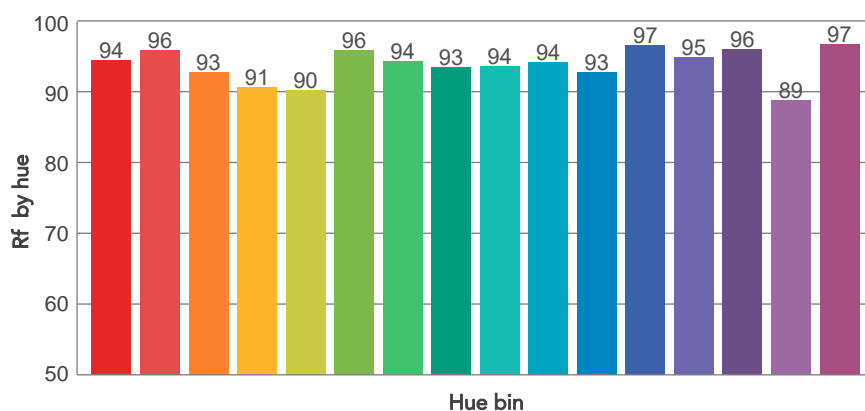
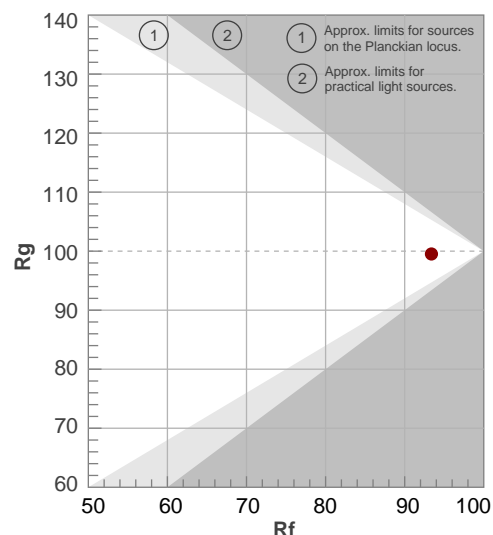
**Rf 93,4**

Fidelity index Rf

**Rg 99,5**

Gammut index

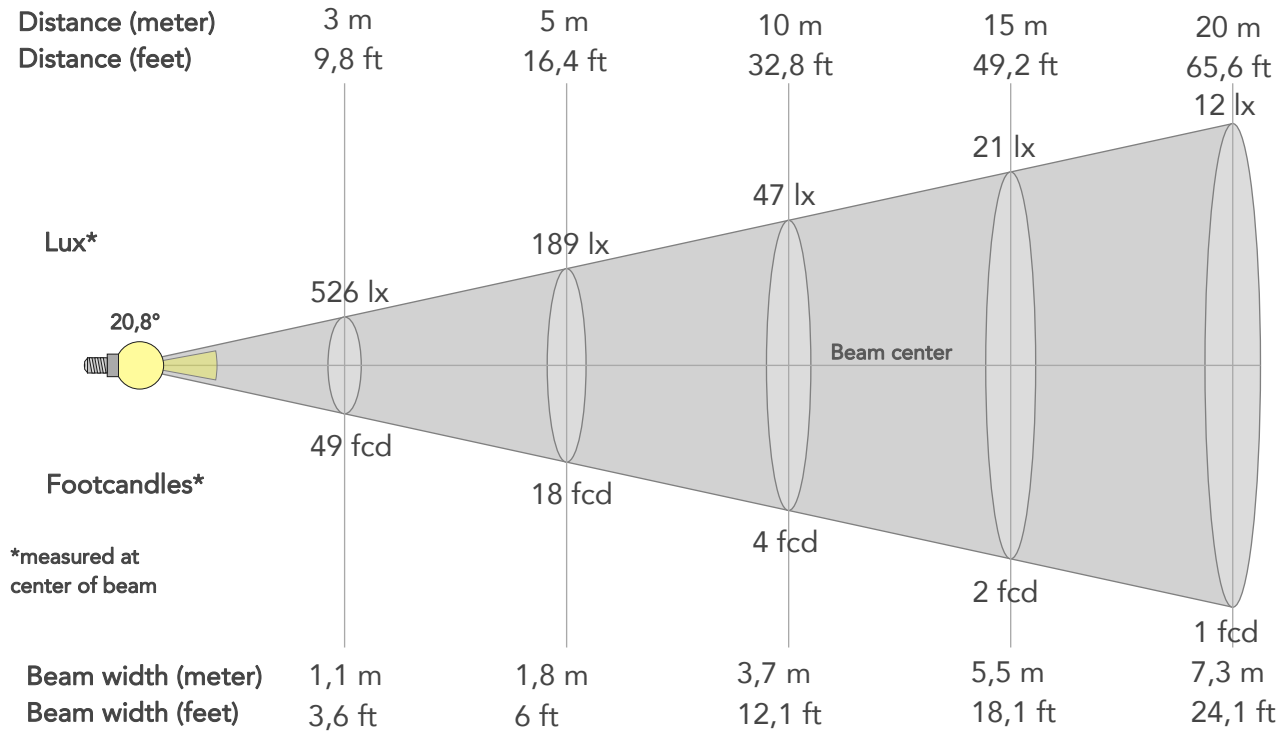
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	2%	0%
2	96	1%	-2%
3	93	0%	-4%
4	91	-4%	-5%
5	90	-7%	-3%
6	96	-3%	0%
7	94	-2%	3%
8	93	-1%	4%
9	94	1%	6%
10	94	1%	3%
11	93	3%	3%
12	97	0%	-2%
13	95	1%	-2%
14	96	-1%	-1%
15	89	7%	-5%
16	97	1%	0%



# BEAM DETAILS



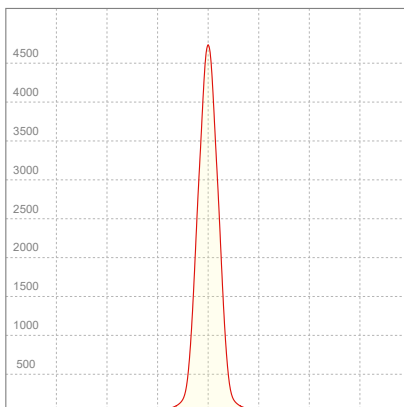
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,8°	36,2°	51,9°	97,6%	94,7%



## 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	4731lx	1183lx	526lx	296lx	189lx	84lx	47lx	21lx	12lx	8lx	5lx	3lx	2lx
Footcand.	440fcd	110fcd	49fcd	27fcd	18fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,3m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9ft	12,1ft	18,1ft	24,1ft	30,1ft	36,2ft	48,2ft	60,3ft

## LINEAR DISTRIBUTION DIAGRAM

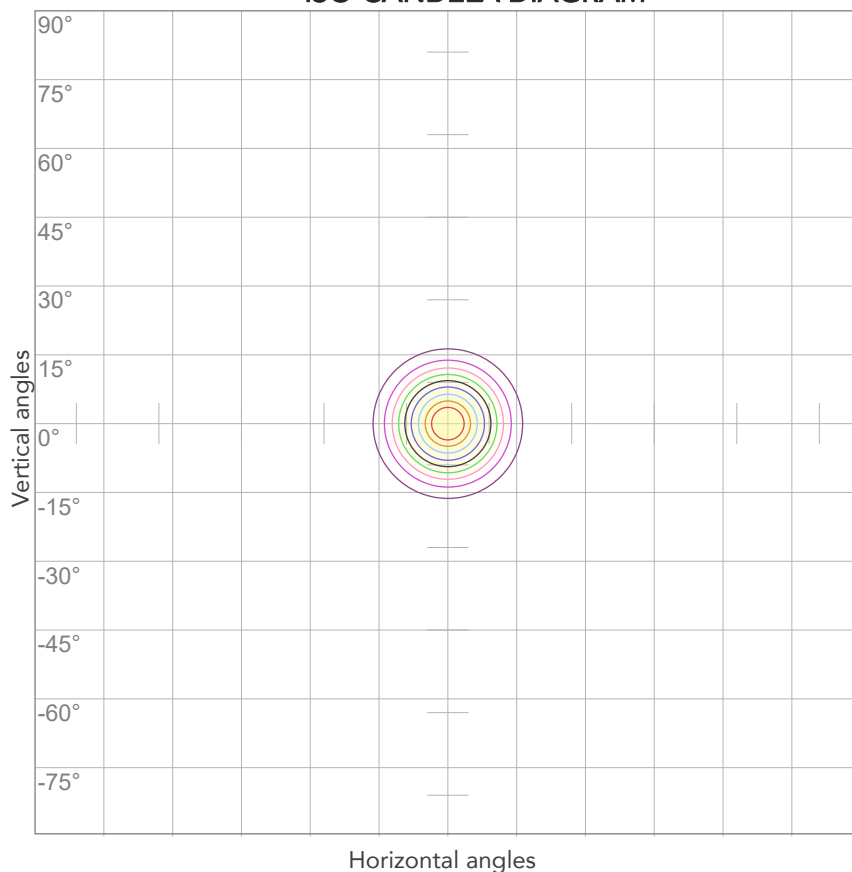


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,130A	16,5W	0,56	47lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



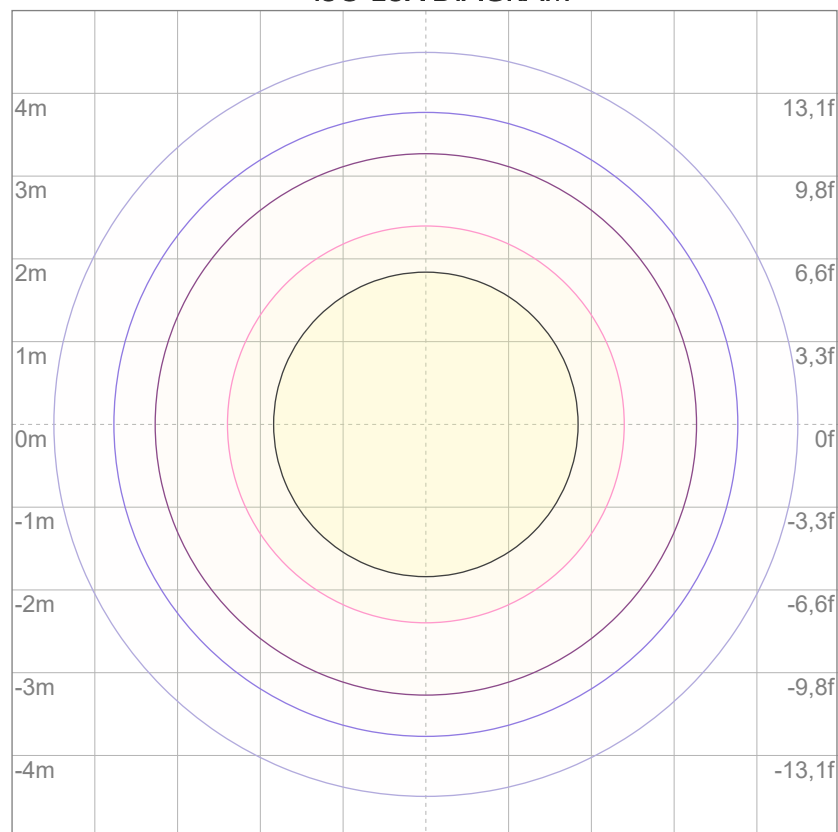
10%	473 cd
20%	946 cd
30%	1419 cd
40%	1892 cd
50%	2365 cd
60%	2838 cd
70%	3312 cd
80%	3785 cd

### Conditions:

Number of c-planes: 2

Candela at center: 4731 cd

## ISO LUX DIAGRAM



3%	1,42 lx
5%	2,37 lx
10%	4,73 lx
30%	14,2 lx
50%	23,7 lx

### Conditions:

Number of c-planes: 2

Lux at center: 47,3 lx

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



Total lumen output:

726 lm

Peak candela output:

4367 cd

Light quality:

CRI: 97,6

Color temperature:

6022 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

25°

Target:

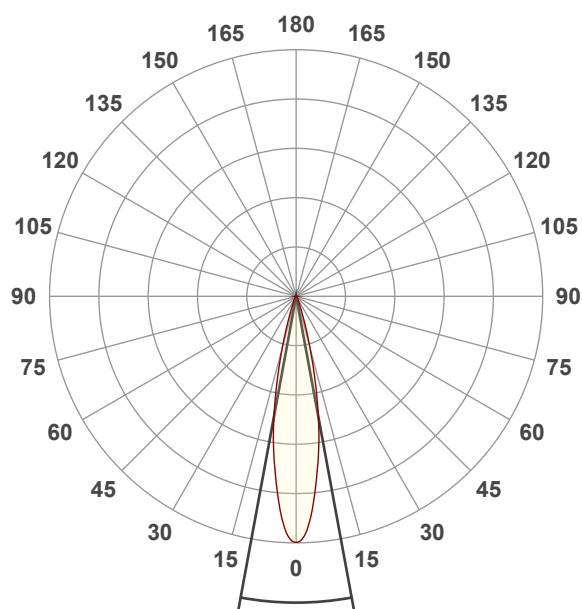
6000K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 13:22:49

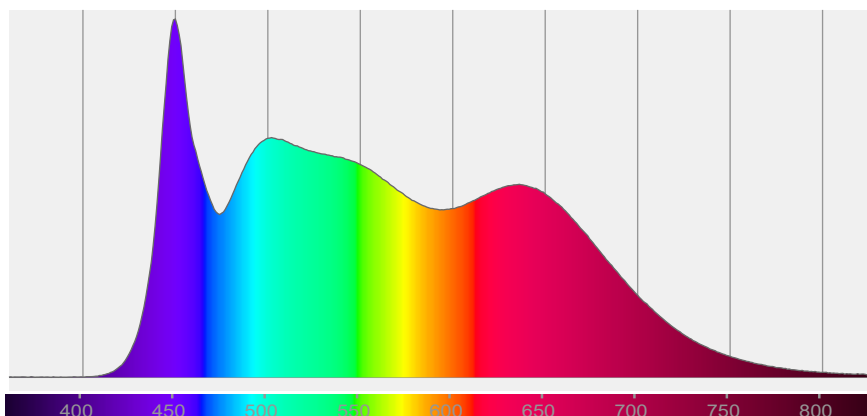


Beam angle 50%: 20,9°

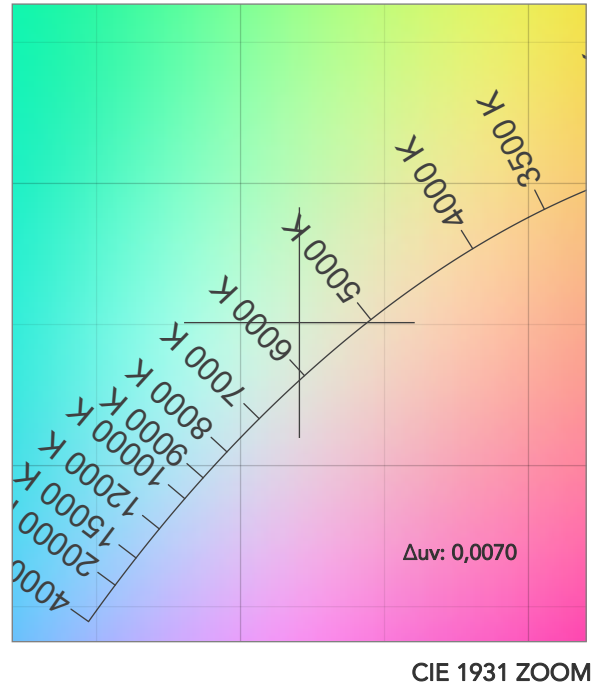
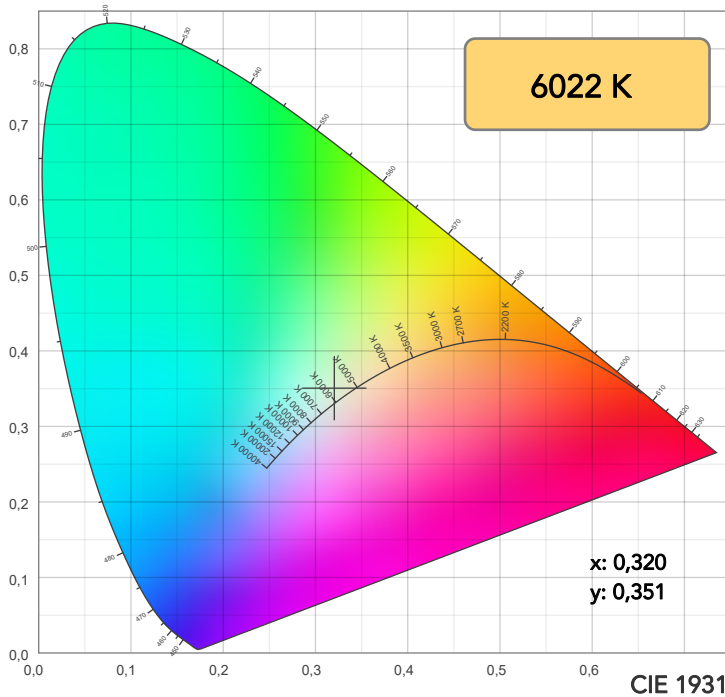
Field angle 10%: 36,4°

Cut off angle 2.5%: 52°

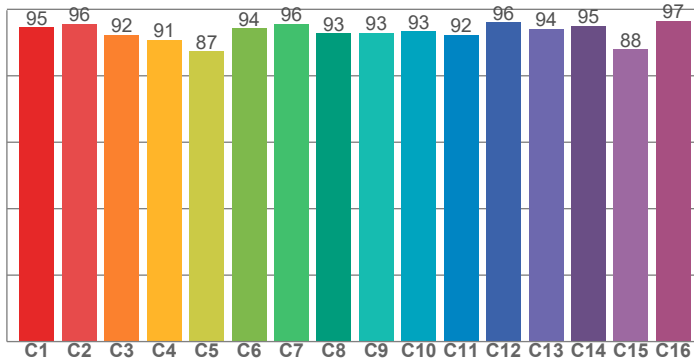
**Spectra**



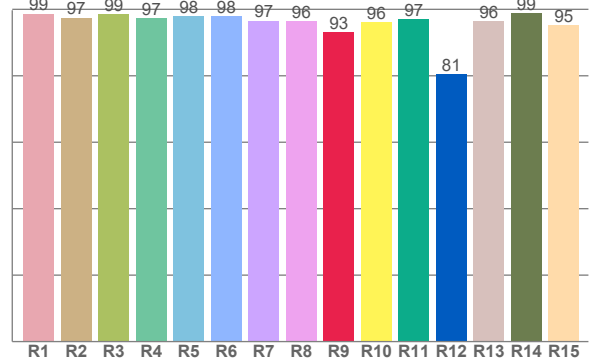
## COLOR DETAILS



TM30: 92,8



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

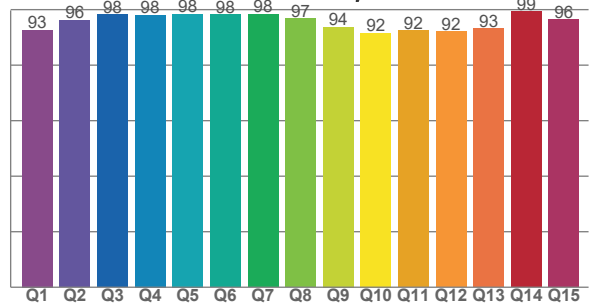
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	95,6	92,3	90,9	87,4	94,2	95,6	92,7	92,9	93,4	92,3	96,0	94,1	95,0	88,0	96,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,6	96,2	98,2	98,0	98,4	98,2	98,3	96,7	93,8	91,6	92,4	92,0	93,2	99,3	96,4

CQS: 94,9



## COLOR PARAMETERS

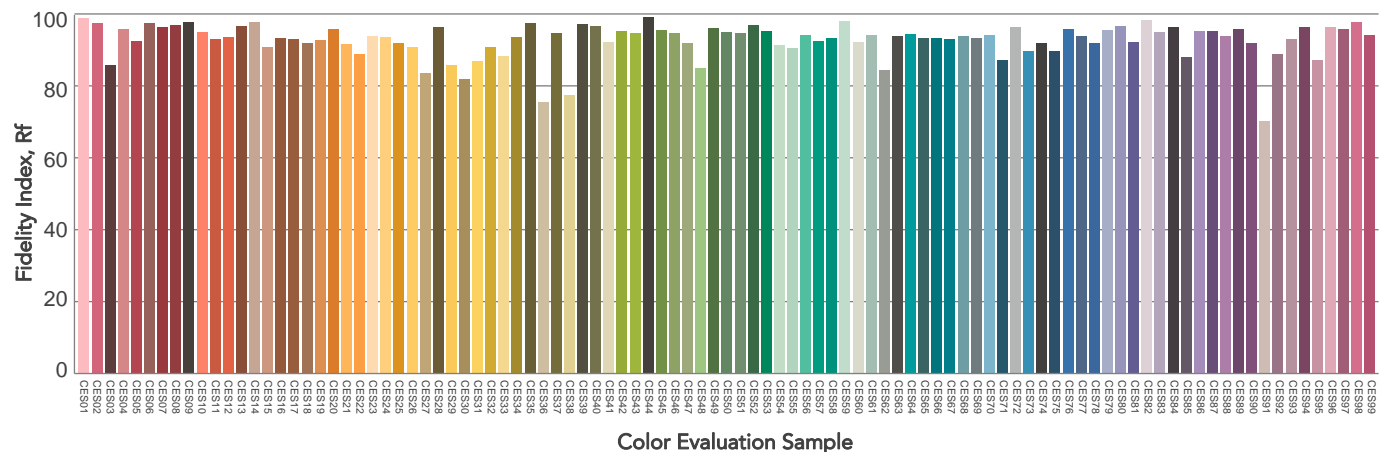
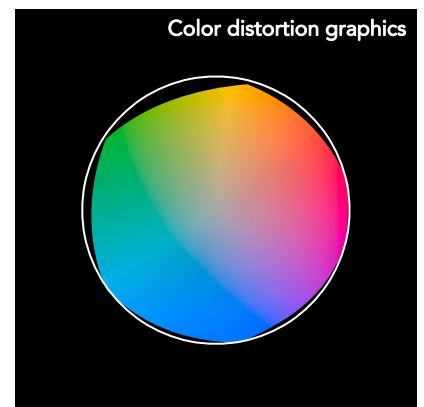
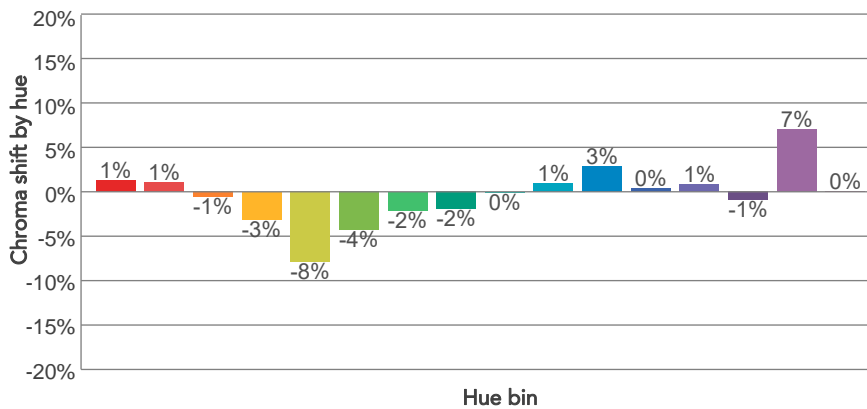
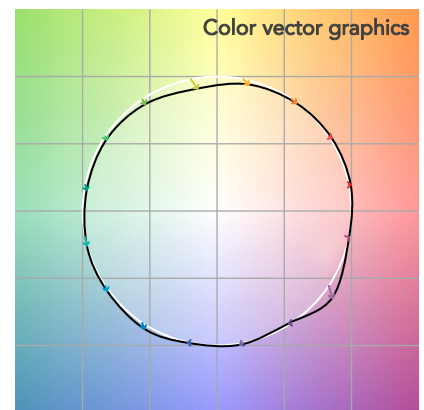
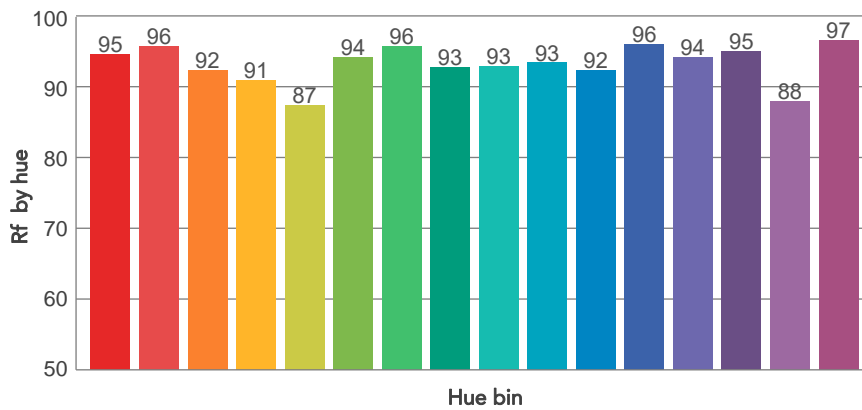
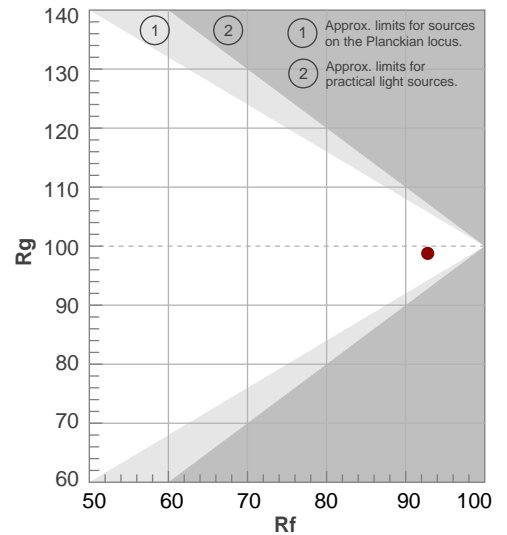
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
6022 K	97,6	93,2	92,8	98,8	94,9	98	0,320	0,351	0,0070

# TM30 DETAILS

**Rf 92,8**  
Fidelity index Rf

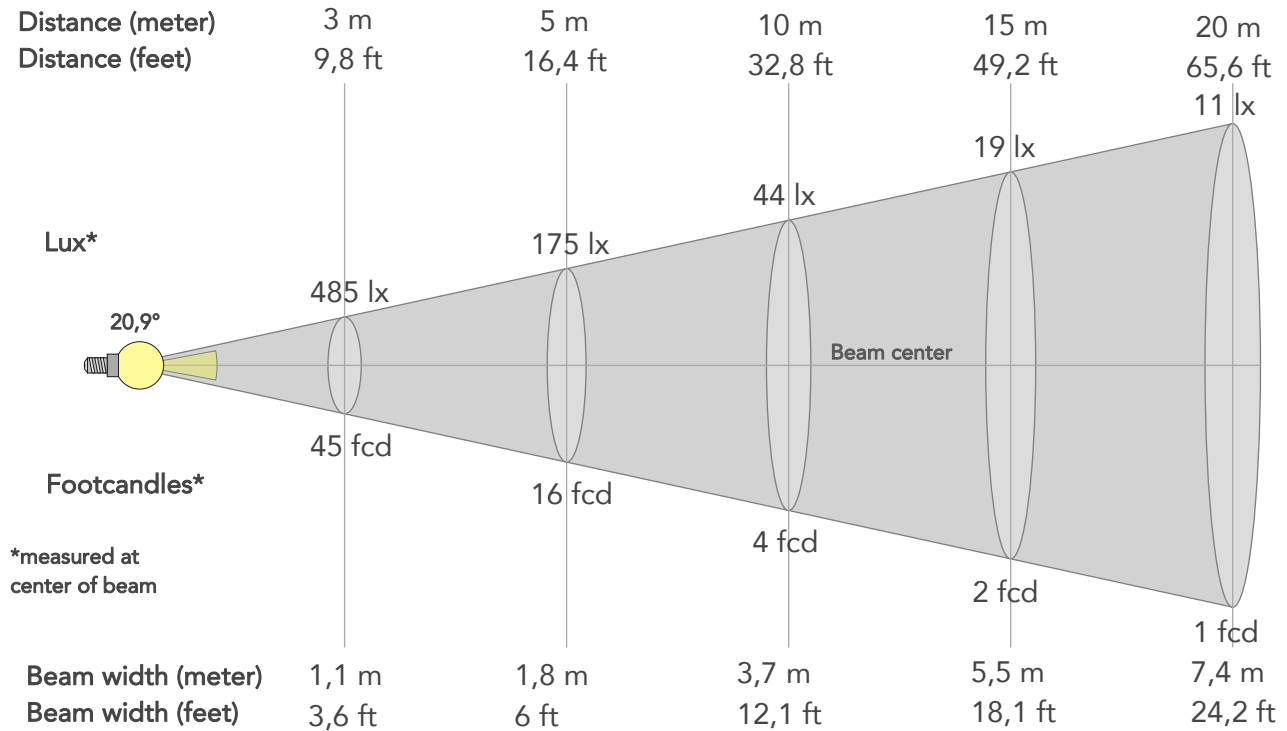
**Rg 98,8**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	0%
2	96	1%	-2%
3	92	-1%	-4%
4	91	-3%	-5%
5	87	-8%	-3%
6	94	-4%	0%
7	96	-2%	1%
8	93	-2%	4%
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

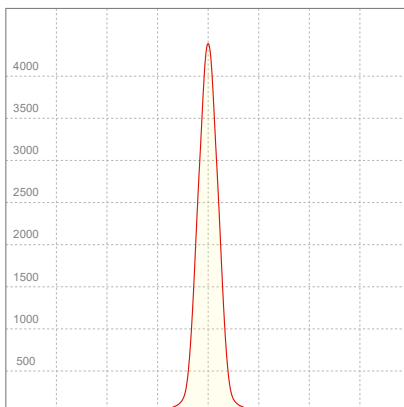
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	36,4°	52°	97,3%	94,2%



## 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	4367lx	1092lx	485lx	273lx	175lx	78lx	44lx	19lx	11lx	7lx	5lx	3lx	2lx
Footcand.	406fcd	101fcd	45fcd	25fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11,1m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,2ft	30,2ft	36,3ft	48,4ft	60,5ft

## LINEAR DISTRIBUTION DIAGRAM

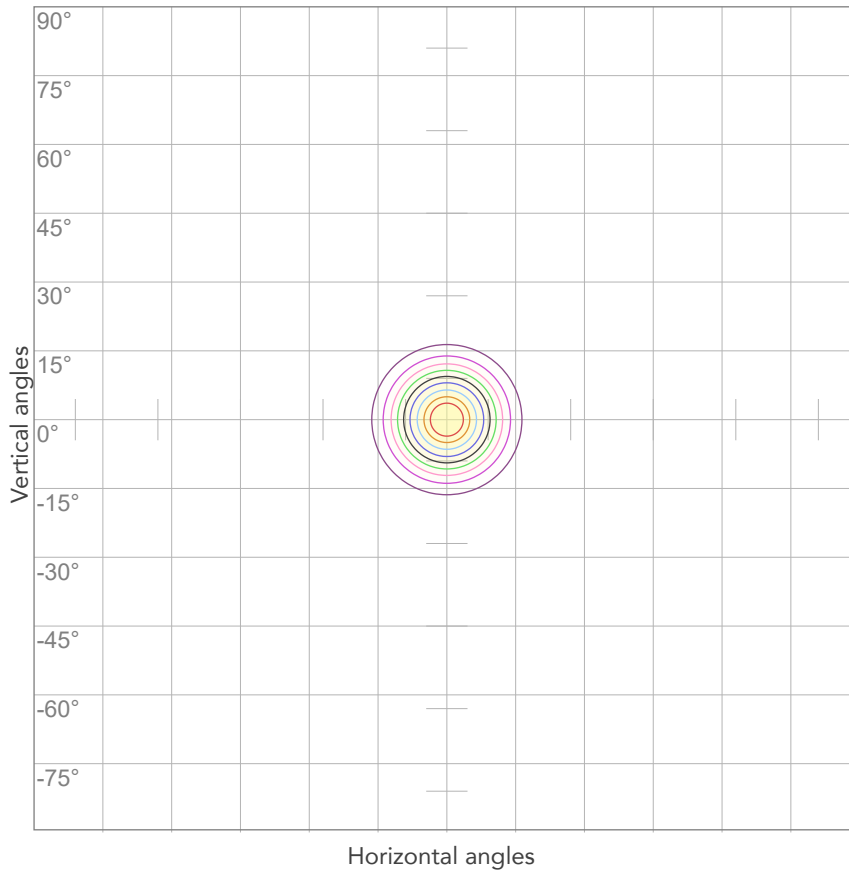


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,119A	15,1W	0,56	48lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



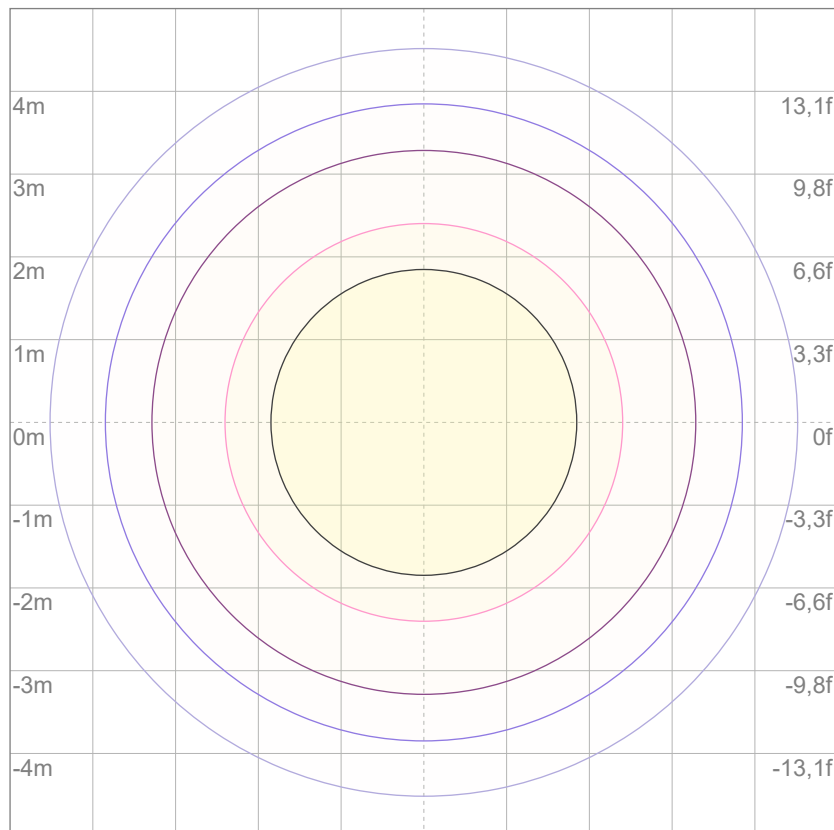
10%	437 cd
20%	873 cd
30%	1310 cd
40%	1747 cd
50%	2184 cd
60%	2620 cd
70%	3057 cd
80%	3494 cd

### Conditions:

Number of c-planes: 2

Candela at center: 4367 cd

## ISO LUX DIAGRAM



3%	1,31 lx
5%	2,18 lx
10%	4,37 lx
30%	13,1 lx
50%	21,8 lx

### Conditions:

Number of c-planes: 2

Lux at center: 43,7 lx

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





Total lumen output:

668 lm

Peak candela output:

4057 cd

Light quality:

CRI: 96,5

Color temperature:

6504 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

25°

Target:

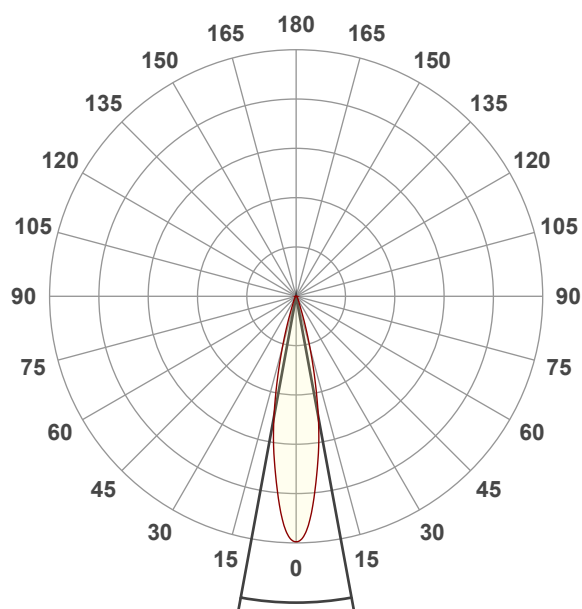
6500K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 13:24:57

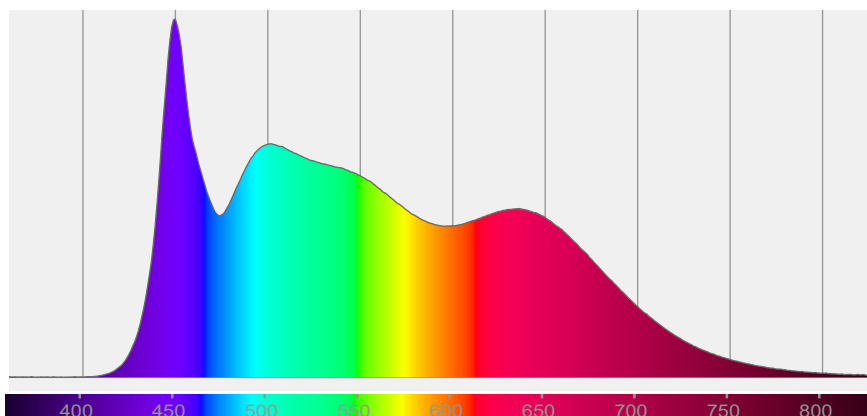


Beam angle 50%: 20,8°

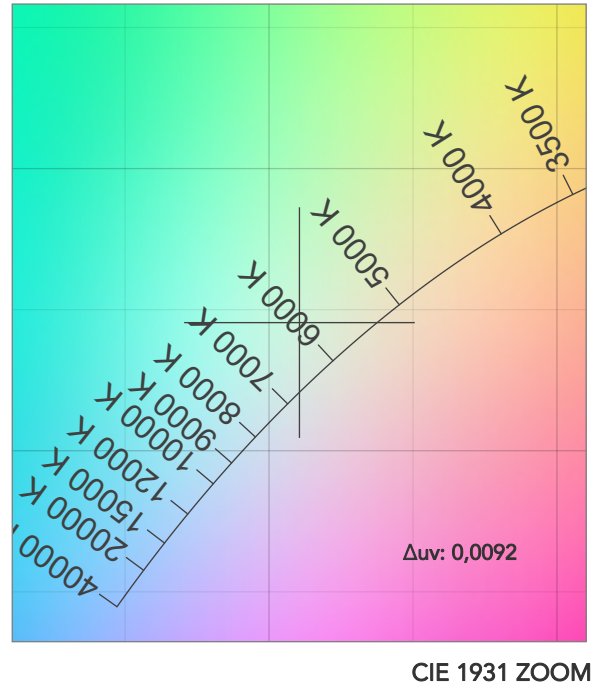
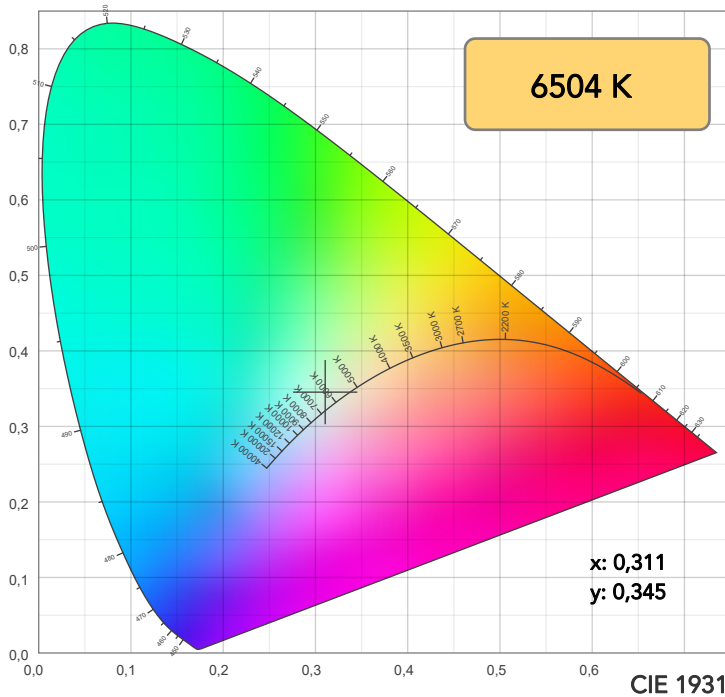
Field angle 10%: 36,3°

Cut off angle 2.5%: 52°

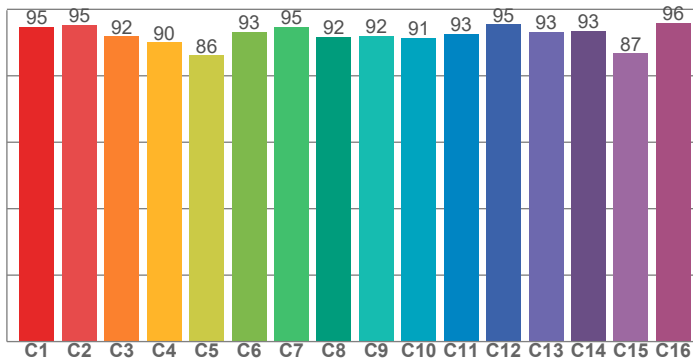
**Spectra**



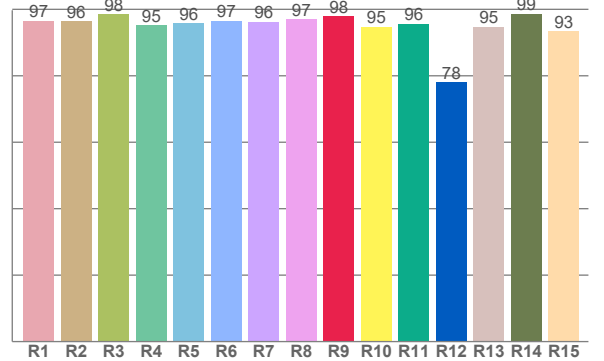
# COLOR DETAILS



TM30: 92,0



CRI: 96,5 (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
96,6	96,4	98,5	95,2	95,8	96,5	96,3	96,9	98,0	94,7	95,6	78,1	94,7	98,6	93,5

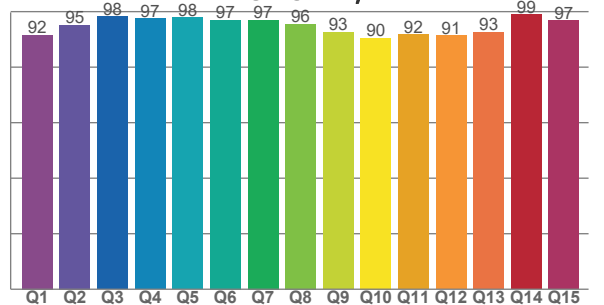
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,5	95,2	98,2	97,5	97,8	97,1	96,9	95,5	92,6	90,5	91,8	91,4	92,6	98,9	96,8

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	$\Delta uv$
6504 K	96,5	98,0	92,0	97,6	94,2	98	0,311	0,345	0,0092

## TM30 DETAILS

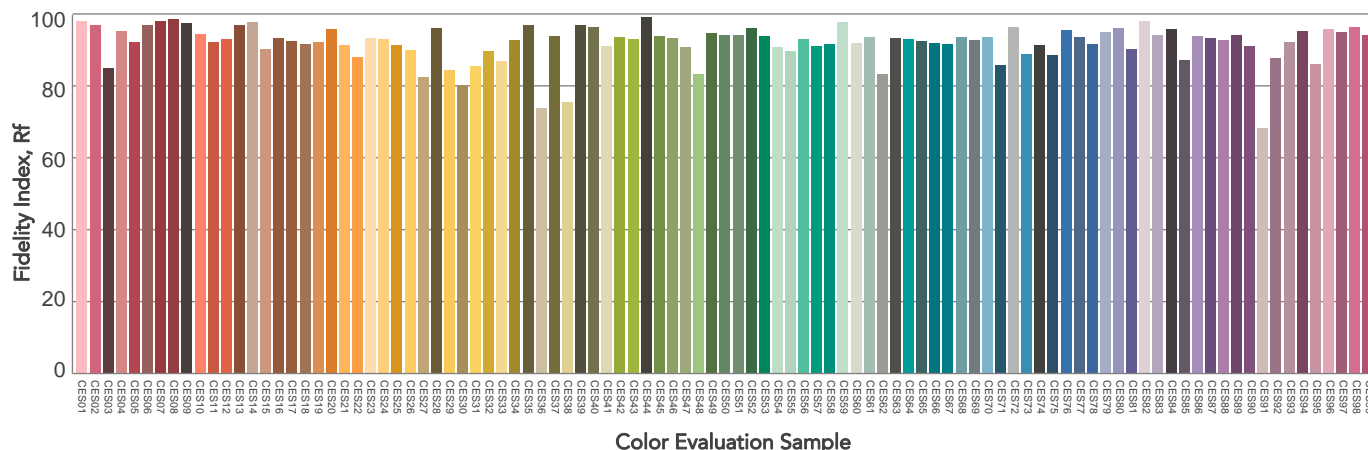
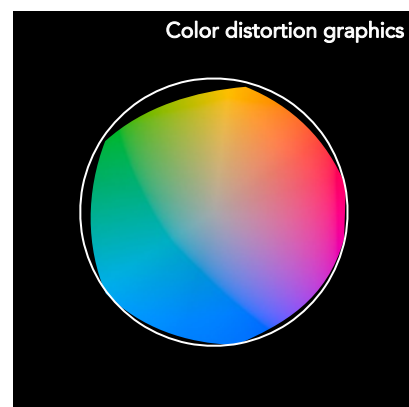
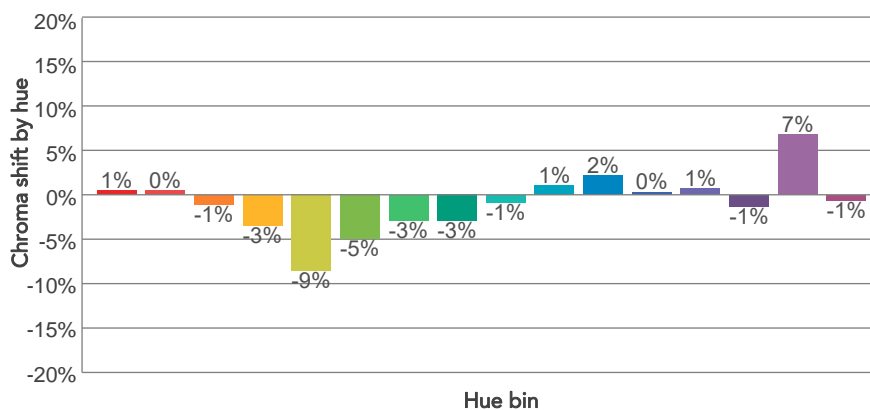
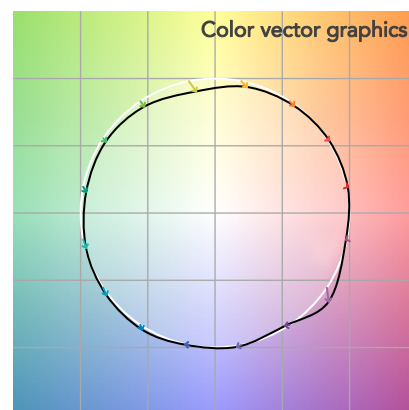
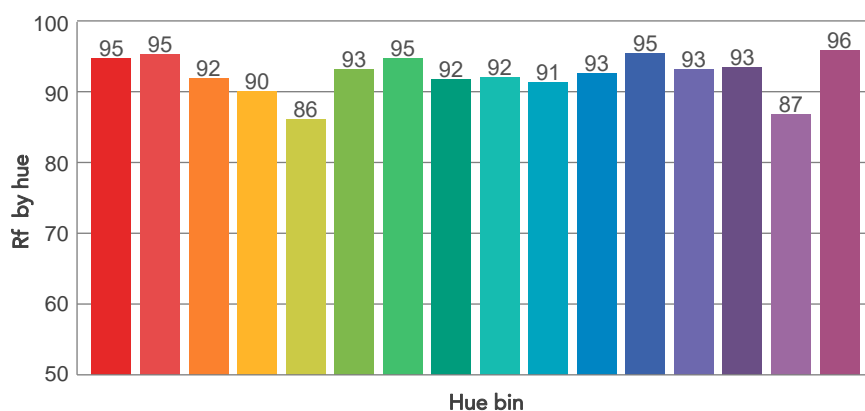
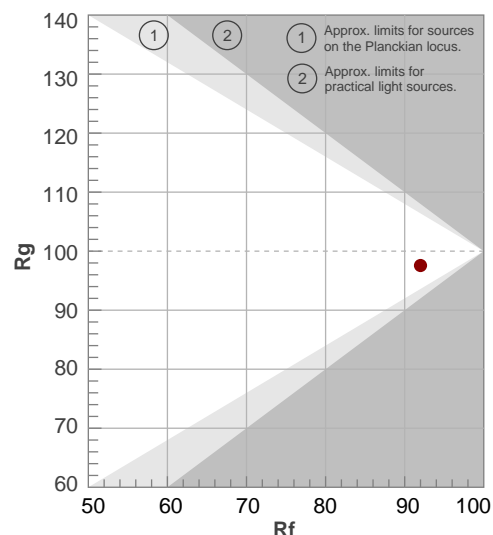
**Rf 92,0**

Fidelity index Rf

**Rg 97,6**

Gammut index

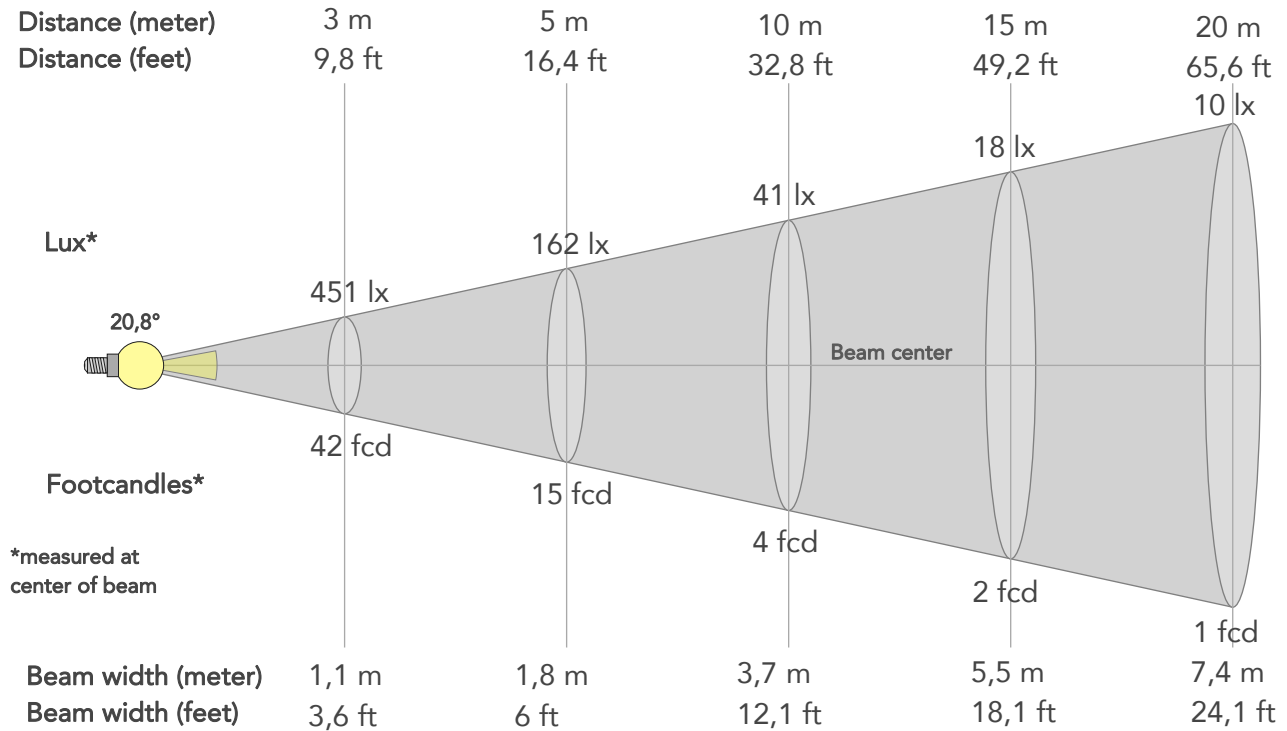
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	0%
2	95	0%	-2%
3	92	-1%	-4%
4	90	-3%	-5%
5	86	-9%	-4%
6	93	-5%	0%
7	95	-3%	1%
8	92	-3%	3%
9	92	-1%	7%
10	91	1%	6%
11	93	2%	3%
12	95	0%	-3%
13	93	1%	-3%
14	93	-1%	-3%
15	87	7%	-8%
16	96	-1%	0%



# BEAM DETAILS



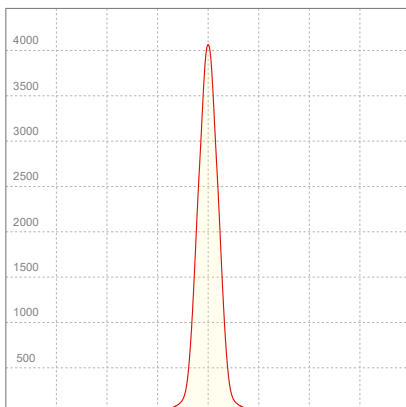
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,8°	36,3°	52°	97,5%	94,5%



## 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	4057lx	1014lx	451lx	254lx	162lx	72lx	41lx	18lx	10lx	6lx	5lx	3lx	2lx
Footcand.	377fcd	94fcd	42fcd	24fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9ft	12,1ft	18,1ft	24,1ft	30,2ft	36,2ft	48,3ft	60,3ft

## LINEAR DISTRIBUTION DIAGRAM

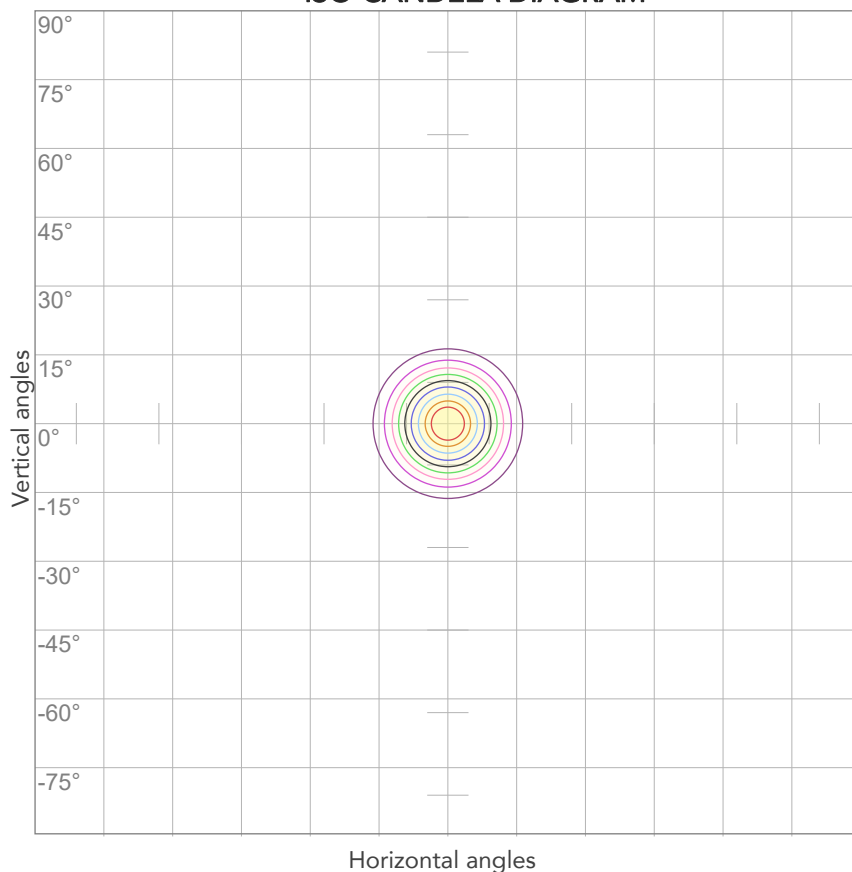


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,112A	13,6W	0,54	49lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



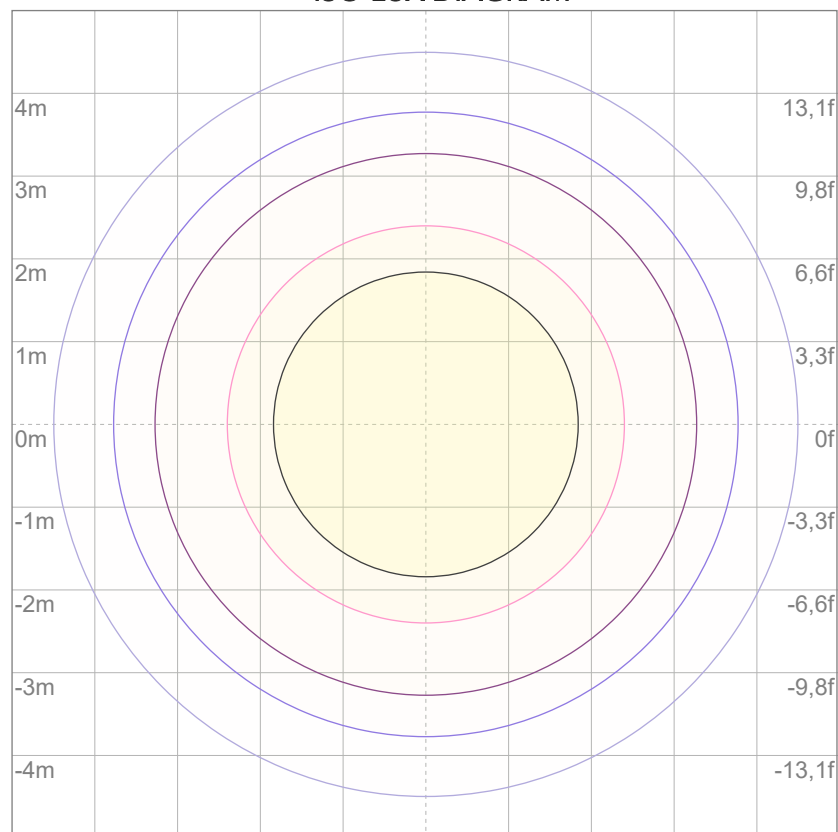
10%	406 cd
20%	811 cd
30%	1217 cd
40%	1623 cd
50%	2029 cd
60%	2434 cd
70%	2840 cd
80%	3246 cd

### Conditions:

Number of c-planes: 2

Candela at center: 4057 cd

## ISO LUX DIAGRAM



3%	1,22 lx
5%	2,03 lx
10%	4,06 lx
30%	12,2 lx
50%	20,3 lx

### Conditions:

Number of c-planes: 2

Lux at center: 40,6 lx

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



Total lumen output:

630 lm

Peak candela output:

3831 cd

Light quality:

CRI: 95,1

Color temperature:

6930 K

**PRODUCT NAME:**

ARCSPOTXS VW

**MEASURAMENT CONDITIONS:**

Beam angle:

25°

Target:

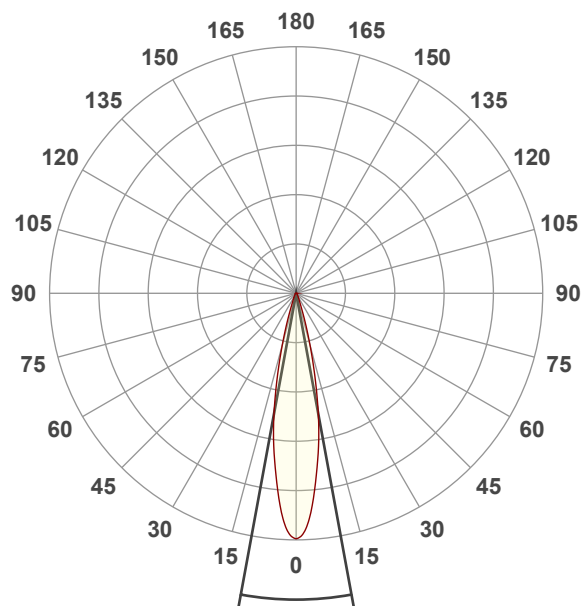
7000K

Operator:

Salvatore Giglio

Date and time:

15/05/2024 13:26:08

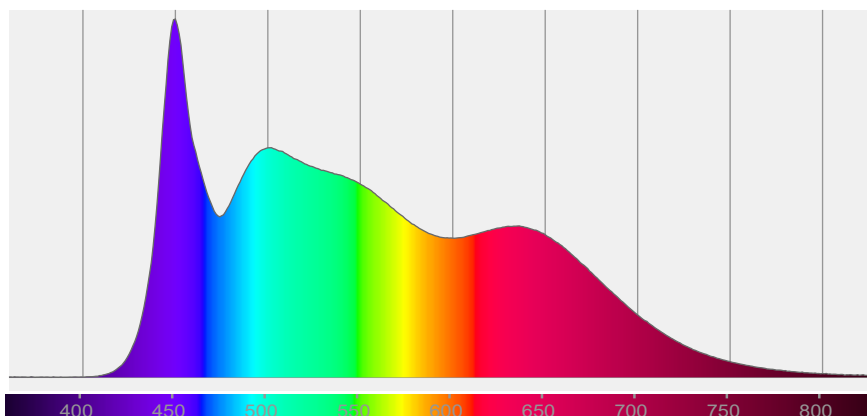


Beam angle 50%: 20,8°

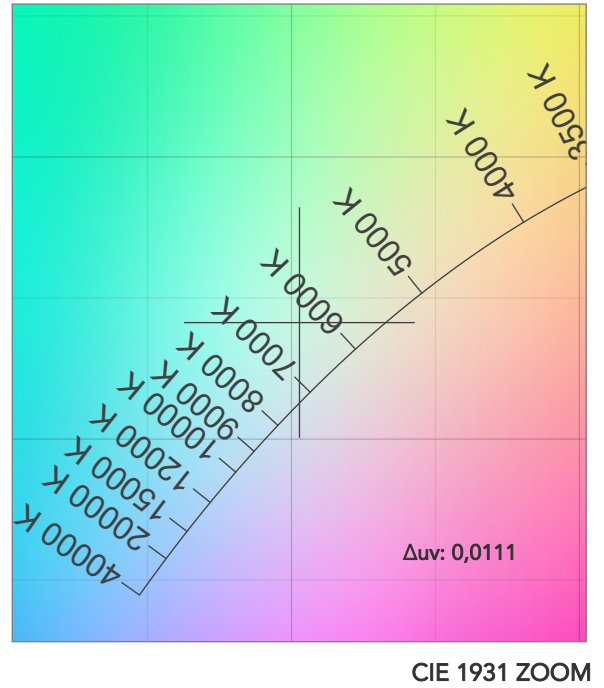
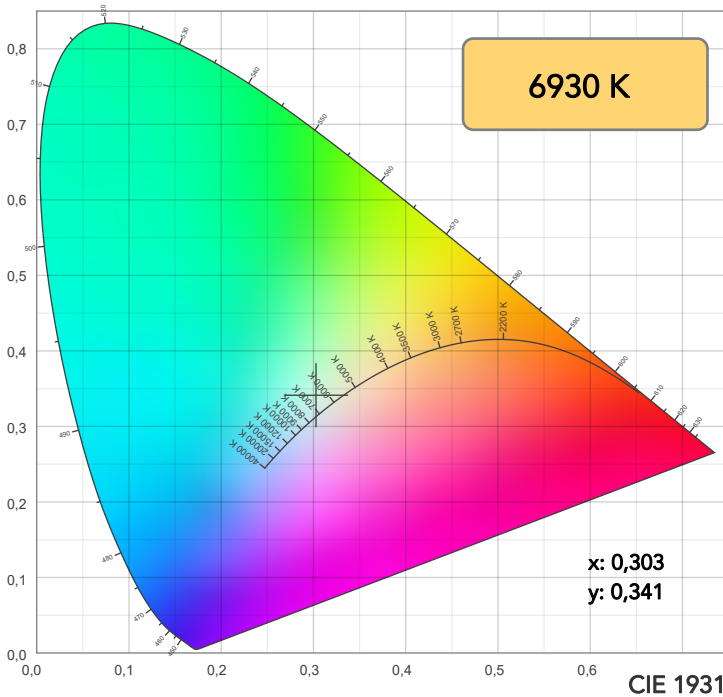
Field angle 10%: 36,3°

Cut off angle 2.5%: 51,9°

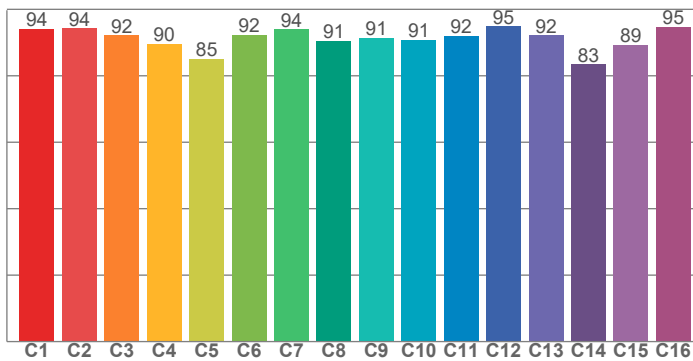
**Spectra**



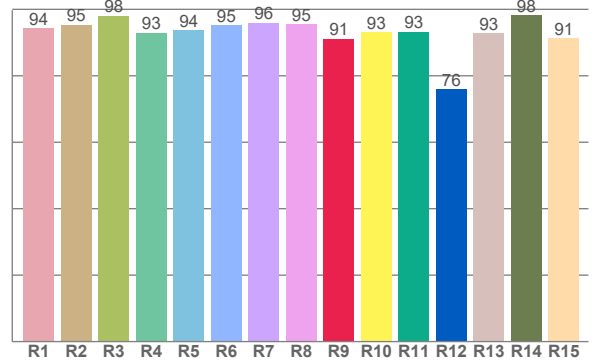
# COLOR DETAILS



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
94,3	95,4	98,0	92,9	93,8	95,2	95,9	95,5	91,2	93,1	93,2	76,0	92,9	98,2	91,3

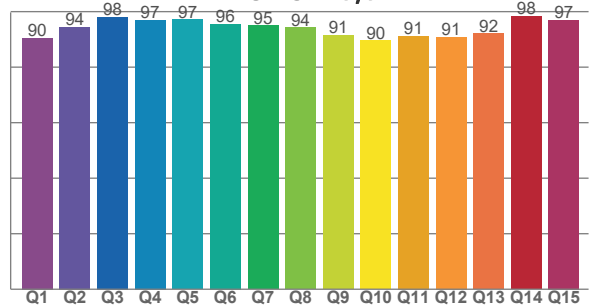
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	94,2	92,1	89,5	85,1	92,3	94,0	90,6	91,3	90,8	92,0	94,9	92,2	83,4	89,3	94,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,5	94,4	98,1	97,0	97,1	95,6	95,0	94,2	91,5	89,6	91,2	90,9	92,1	98,3	97,0

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	$\Delta uv$
6930 K	95,1	91,2	91,2	97,0	93,5	98	0,303	0,341	0,0111

## TM30 DETAILS

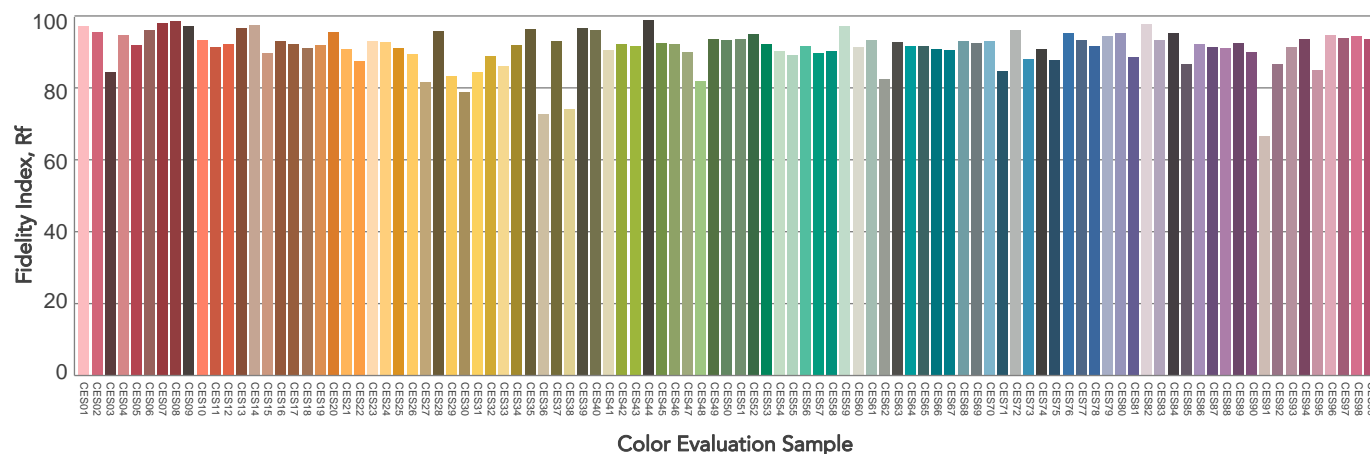
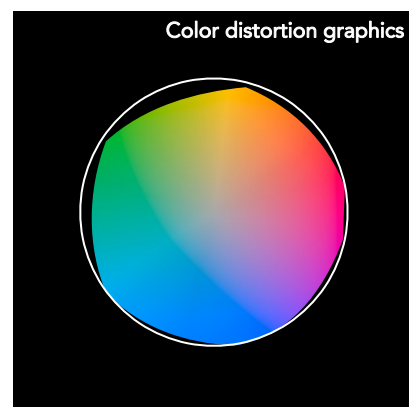
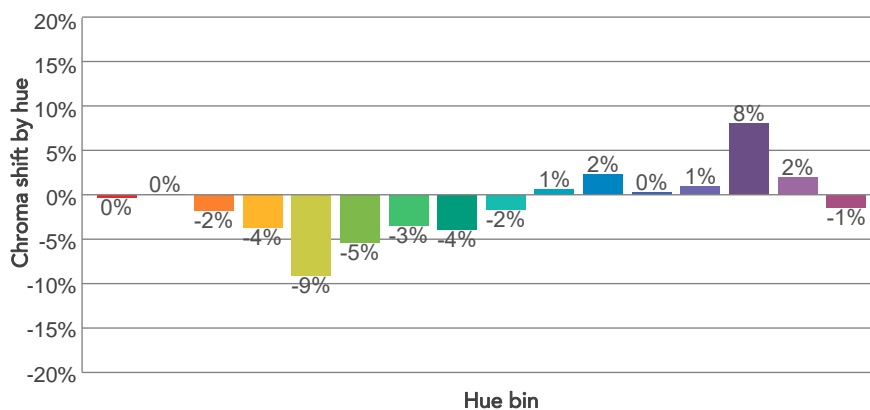
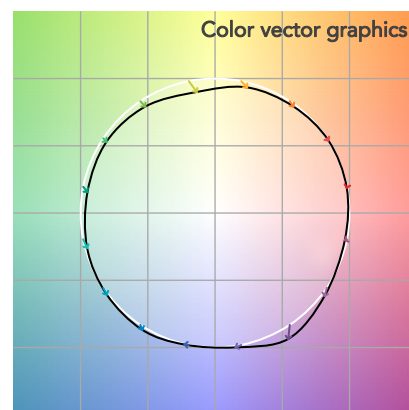
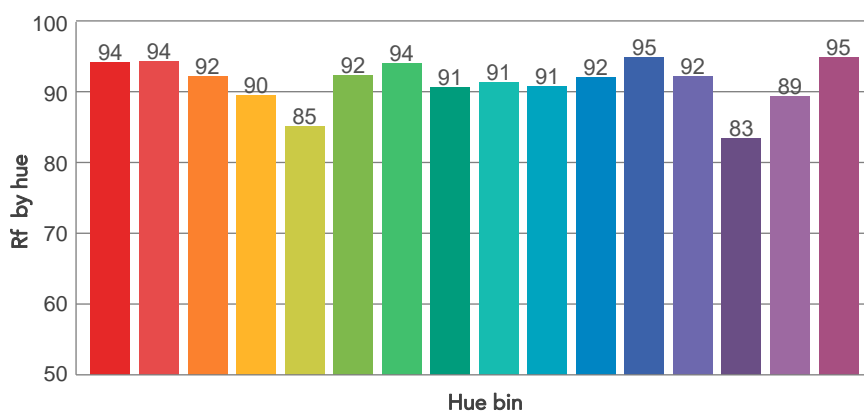
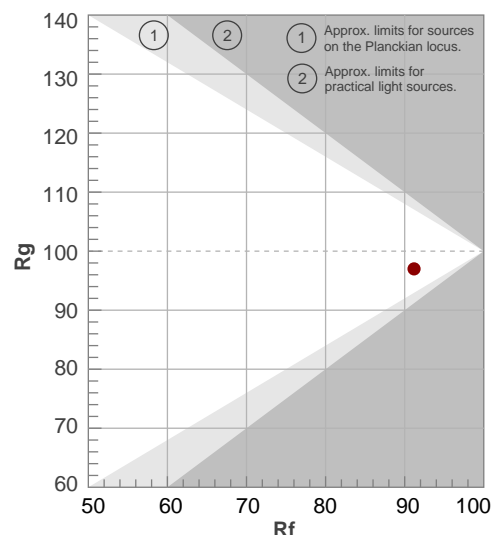
**Rf 91,2**

Fidelity index Rf

**Rg 97,0**

Gammut index

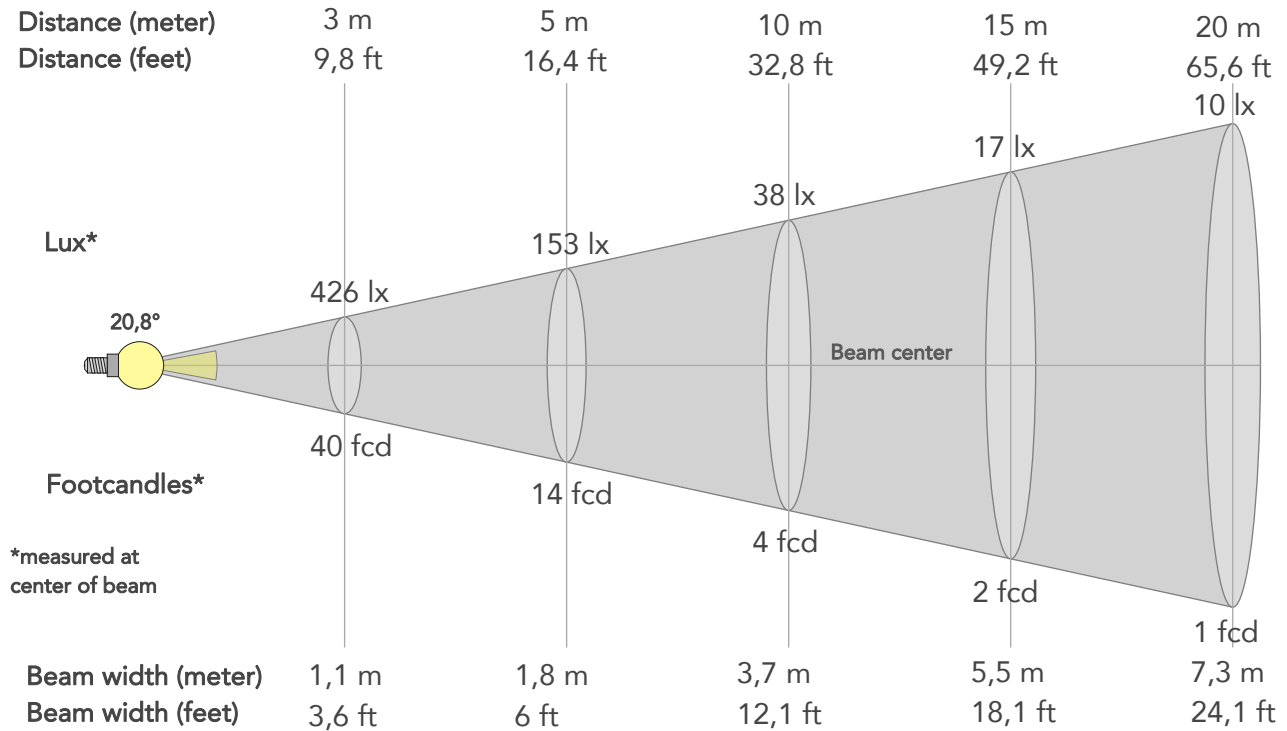
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-1%
2	94	0%	-2%
3	92	-2%	-5%
4	90	-4%	-5%
5	85	-9%	-4%
6	92	-5%	-1%
7	94	-3%	1%
8	91	-4%	3%
9	91	-2%	7%
10	92	2%	3%
11	95	0%	-3%
12	92	1%	-5%
13	83	8%	-7%
14	89	2%	-6%
15	95	-1%	-1%





# BEAM DETAILS

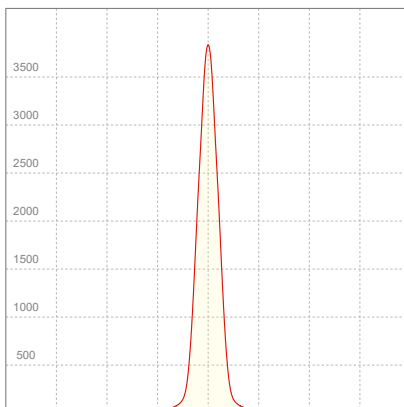
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,8°	36,3°	51,9°	97,5%	94,5%



## 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	3831lx	958lx	426lx	239lx	153lx	68lx	38lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	356fcd	89fcd	40fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,3m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9ft	12,1ft	18,1ft	24,1ft	30,1ft	36,2ft	48,2ft	60,3ft

## LINEAR DISTRIBUTION DIAGRAM

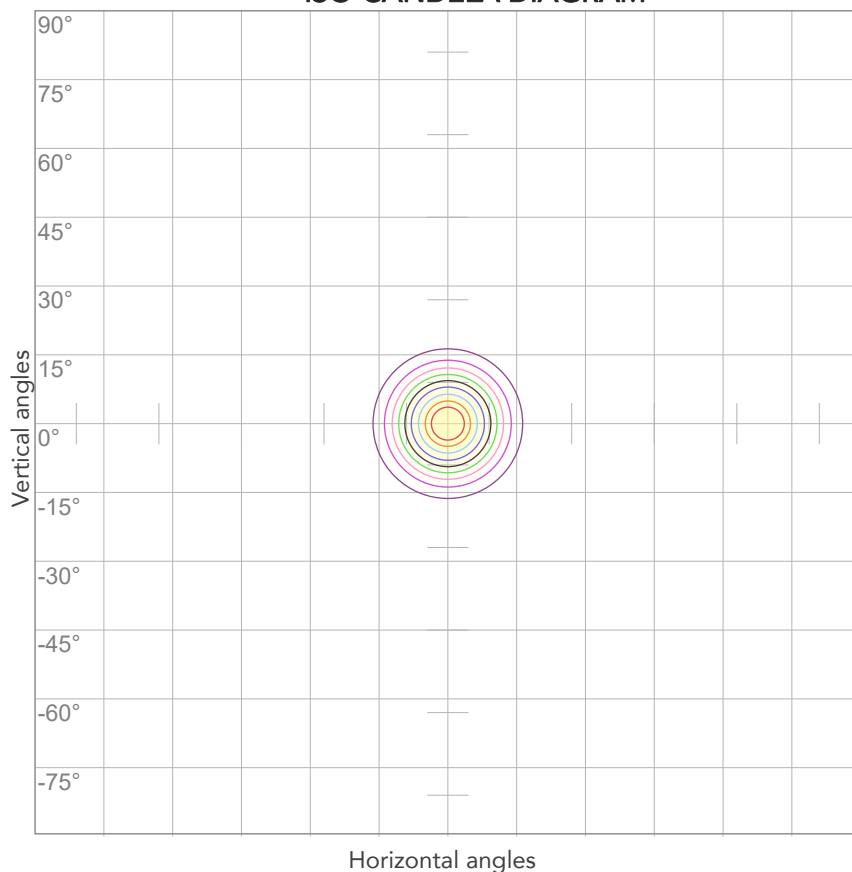


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,106A	12,6W	0,52	50lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



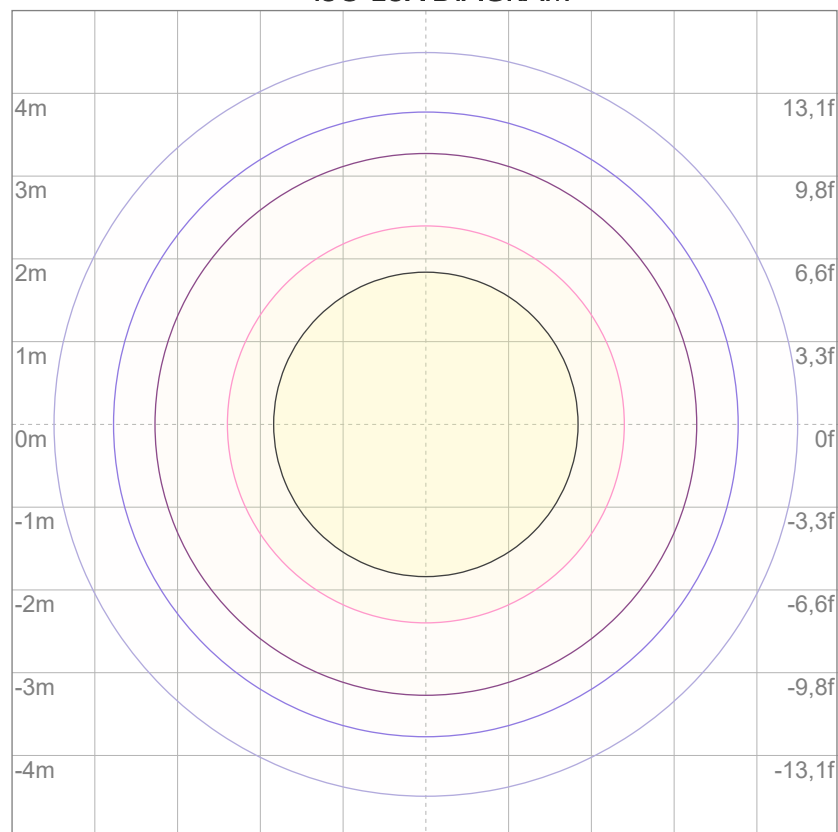
10%	383 cd
20%	766 cd
30%	1149 cd
40%	1532 cd
50%	1915 cd
60%	2298 cd
70%	2681 cd
80%	3065 cd

### Conditions:

Number of c-planes: 2

Candela at center: 3831 cd

## ISO LUX DIAGRAM



3%	1,15 lx
5%	1,92 lx
10%	3,83 lx
30%	11,5 lx
50%	19,2 lx

### Conditions:

Number of c-planes: 2

Lux at center: 38,3 lx

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