

# Photometric Test Report



## EclDisplay CRMXWhite

25W White LED Spotlight with Wireless CRMX and wired control, without lens

(ECLDISPLAYCRMX30K )



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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:

1086 lm

Peak candela output:

84128 cd

Light quality:

CRI: 98,2

Color temperature:

3079 K

**PRODUCT NAME:**

ECLDISPLAYCRMX30K

**MEASURAMENT CONDITIONS:**

Beam angle:

Profile 8°

Target:

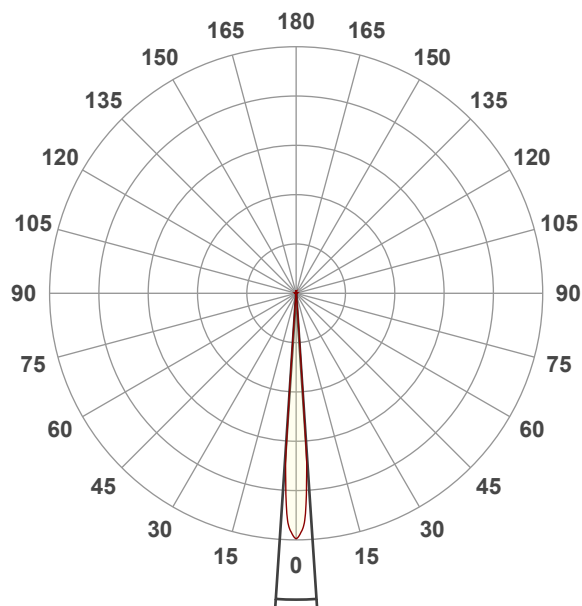
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 11:01:33

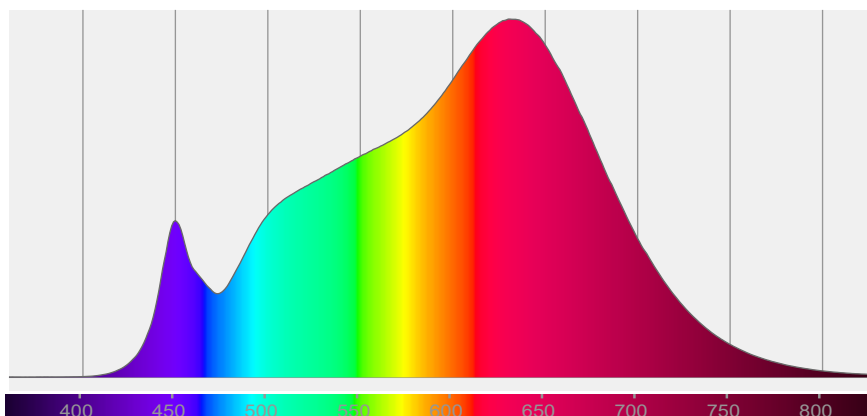


Beam angle 50%: 7,6°

Field angle 10%: 8,7°

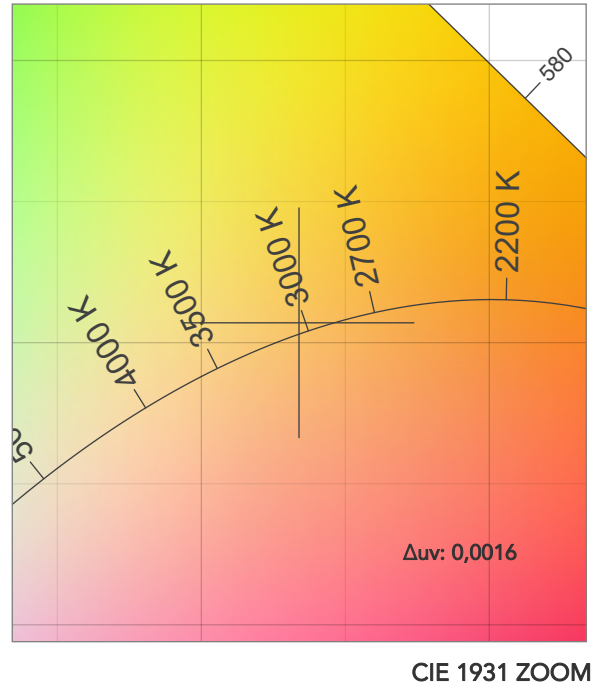
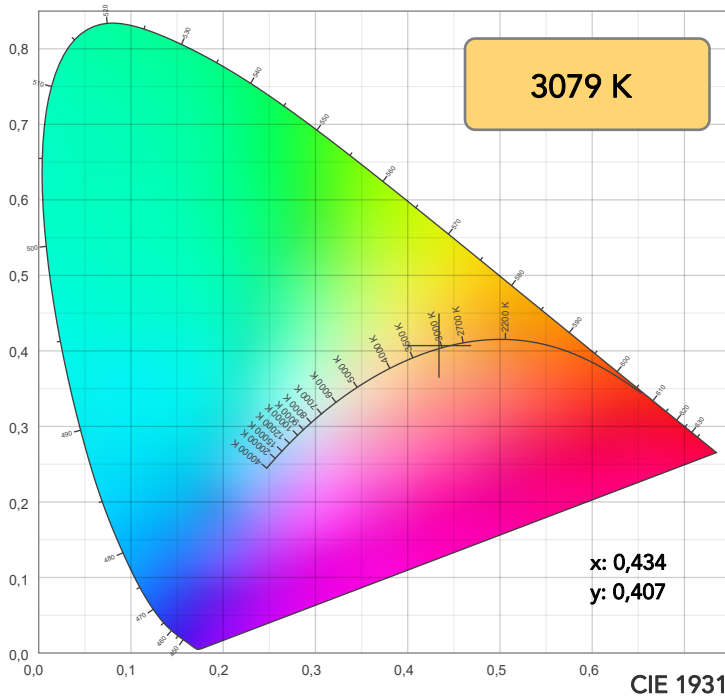
Cut off angle 2.5%: 9,2°

**Spectra**

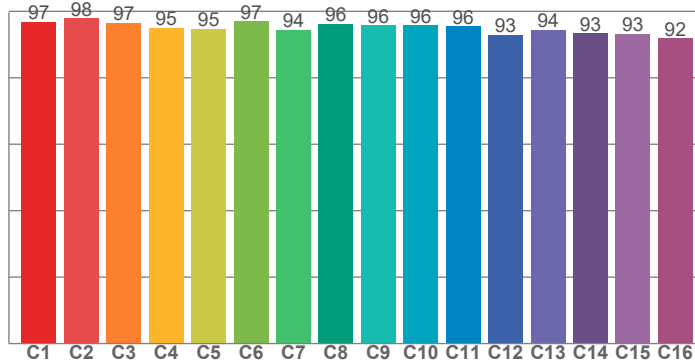




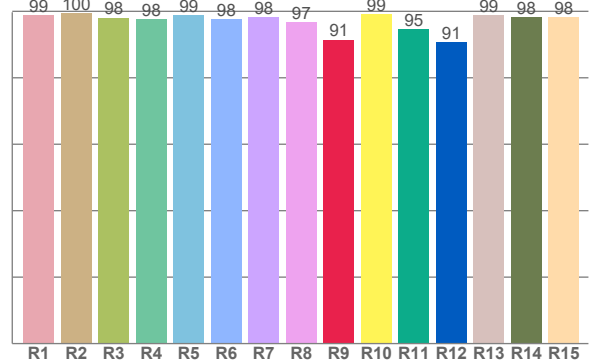
# COLOR DETAILS



TM30: 95,3



CRI: 98,2 (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
98,7	99,5	98,1	97,6	98,8	97,7	98,3	96,7	91,4	99,2	94,6	90,7	98,8	98,2	98,1

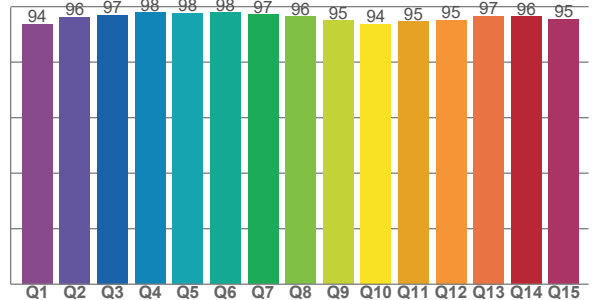
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 95,7



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3079 K	98,2	91,4	95,3	99,8	95,7	98	0,434	0,407	0,0016

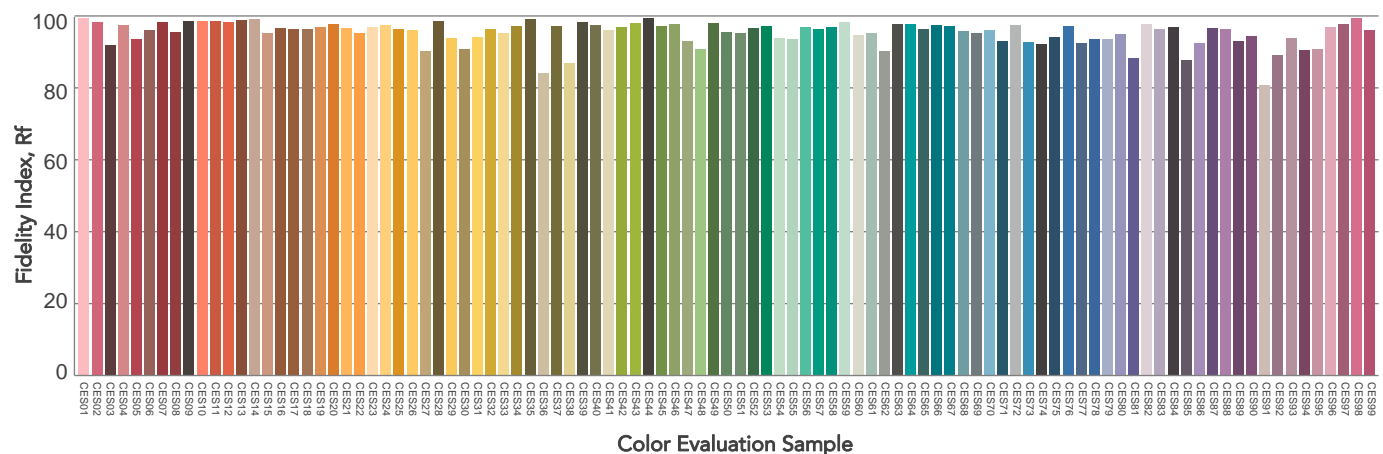
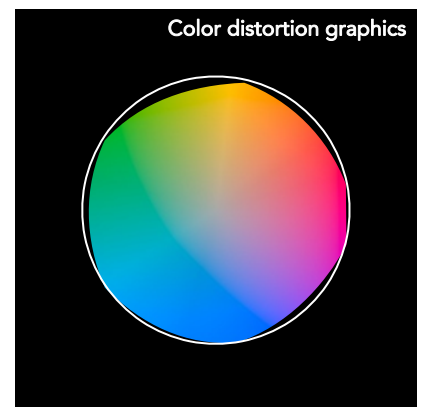
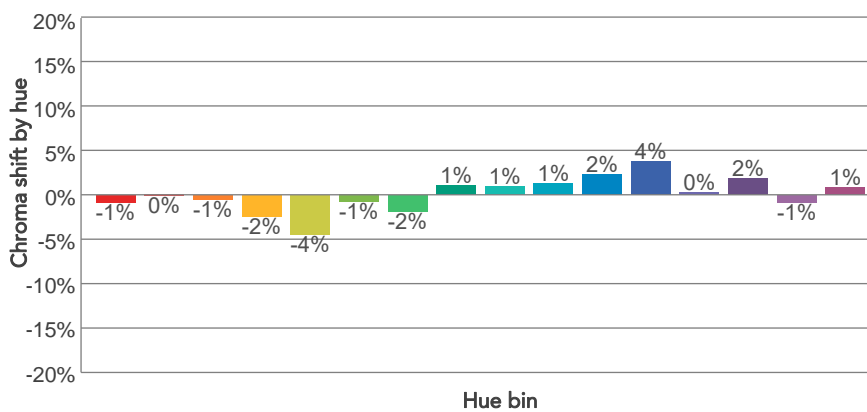
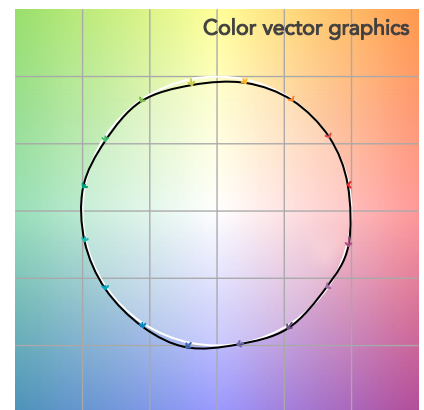
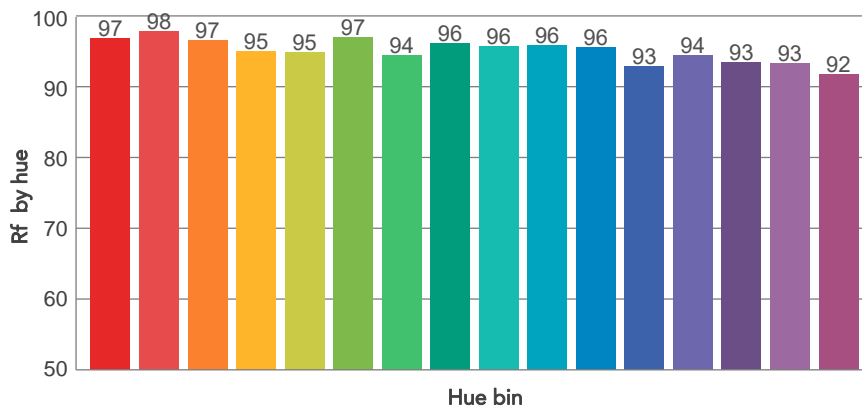
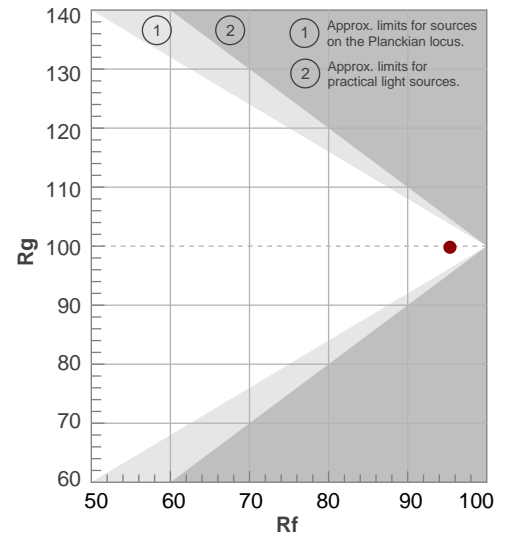


# TM30 DETAILS

**Rf 95,3**  
Fidelity index Rf

**Rg 99,8**  
Gammut index

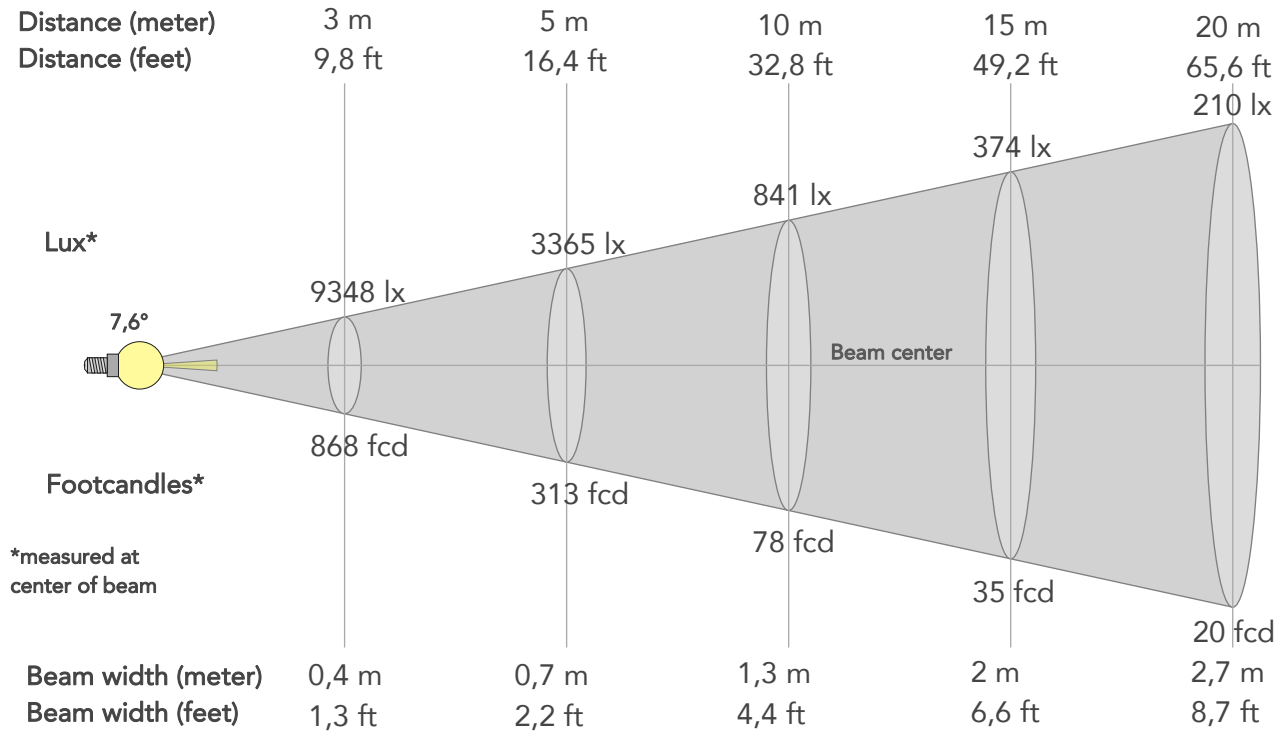
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	97	-1%	0%
2	98	0%	-1%
3	97	-1%	-1%
4	95	-2%	-2%
5	95	-4%	0%
6	97	-1%	2%
7	94	-2%	3%
8	96	1%	2%
9	96	1%	3%
10	96	1%	2%
11	96	2%	2%
12	93	4%	-3%
13	94	0%	-4%
14	93	2%	-5%
15	93	-1%	-2%
16	92	1%	-6%





# BEAM DETAILS

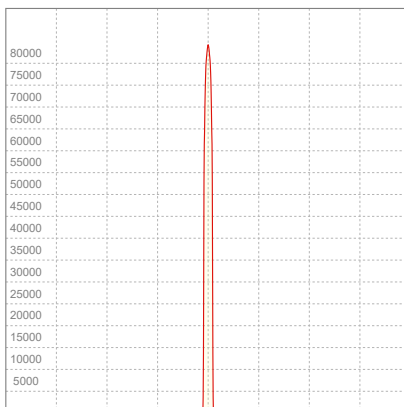
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
7,6°	8,7°	9,2°	99,6%	99,4%



## 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	84128lx	21032lx	9348lx	5258lx	3365lx	1496lx	841lx	374lx	210lx	135lx	93lx	53lx	34lx
Footcand.	7816fcd	1954fcd	868fcd	488fcd	313fcd	139fcd	78fcd	35fcd	20fcd	13fcd	9fcd	5fcd	3fcd
Beam wid.	0,1m	0,3m	0,4m	0,5m	0,7m	1m	1,3m	2m	2,7m	3,3m	4m	5,3m	6,7m
Beam wid.	0,4ft	0,9ft	1,3ft	1,7ft	2,2ft	3,3ft	4,4ft	6,6ft	8,7ft	10,9ft	13,1ft	17,5ft	21,8ft

## LINEAR DISTRIBUTION DIAGRAM



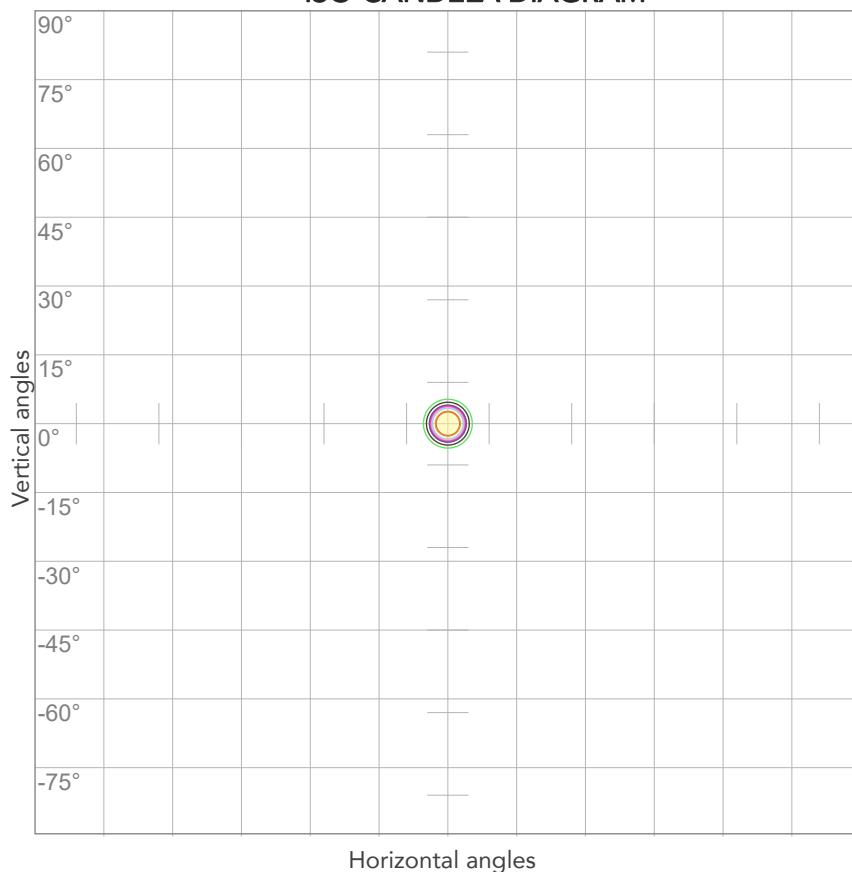
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,155A	33,5W	0,95	32lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



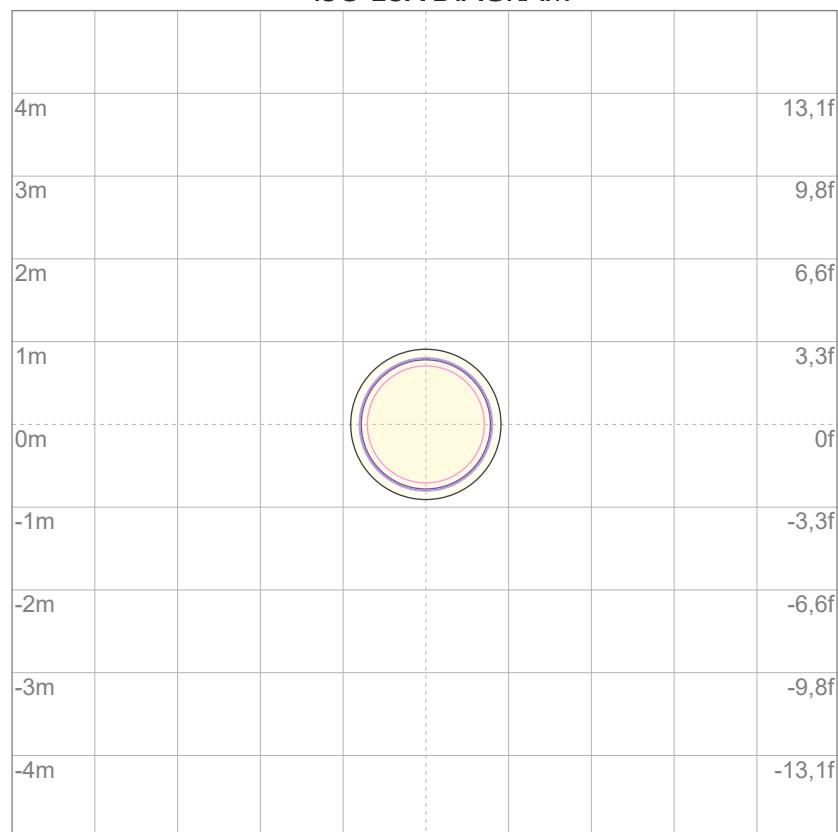
10%	8413 cd
20%	16826 cd
30%	25238 cd
40%	33651 cd
50%	42064 cd
60%	50477 cd
70%	58890 cd
80%	67303 cd

### Conditions:

Number of c-planes: 2

Candela at center: 84128 cd

## ISO LUX DIAGRAM



3%	25,2 lx
5%	42,1 lx
10%	84,1 lx
30%	252 lx
50%	421 lx

### Conditions:

Number of c-planes: 2

Lux at center: 841 lx

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





Total lumen output:

1333 lm

Peak candela output:

21253 cd

Light quality:

CRI: 98,0

Color temperature:

3046 K

PRODUCT NAME:

ECLDISPLAYCRMX30K

MEASURAMENT CONDITIONS:

Beam angle:

Profile 18°

Target:

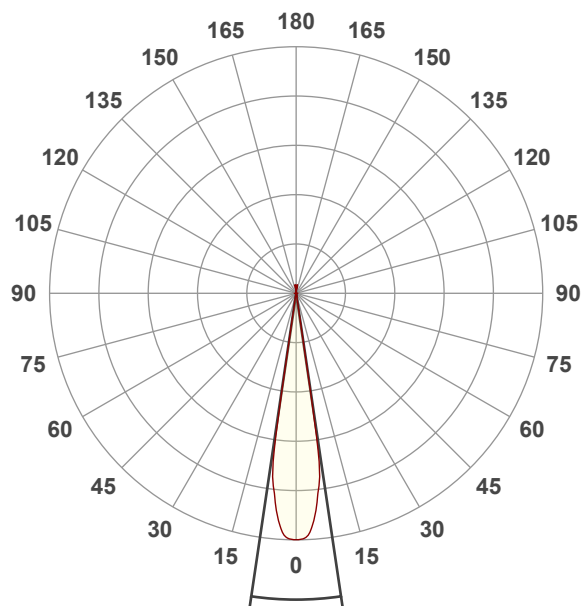
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 11:14:48

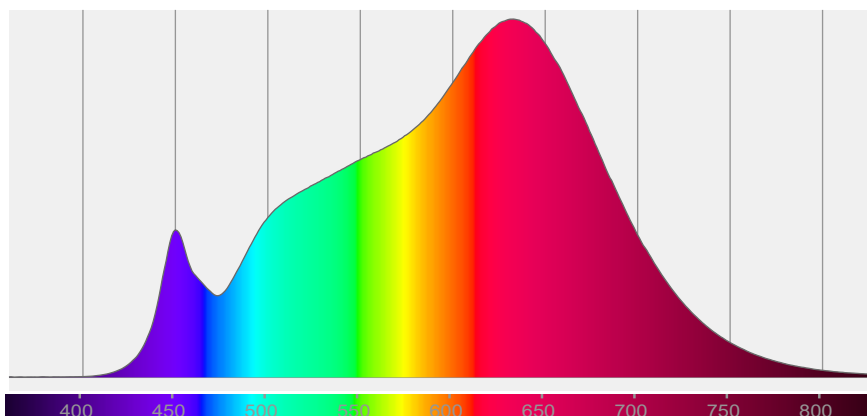


Beam angle 50%: 16,8°

Field angle 10%: 19,4°

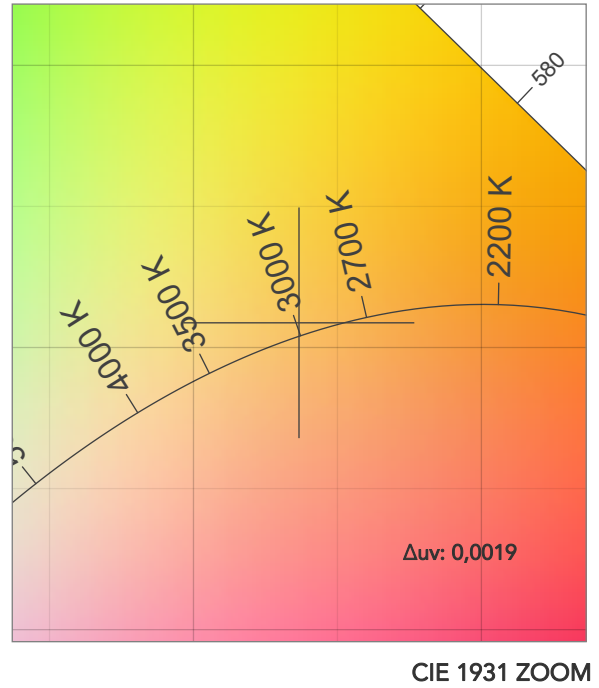
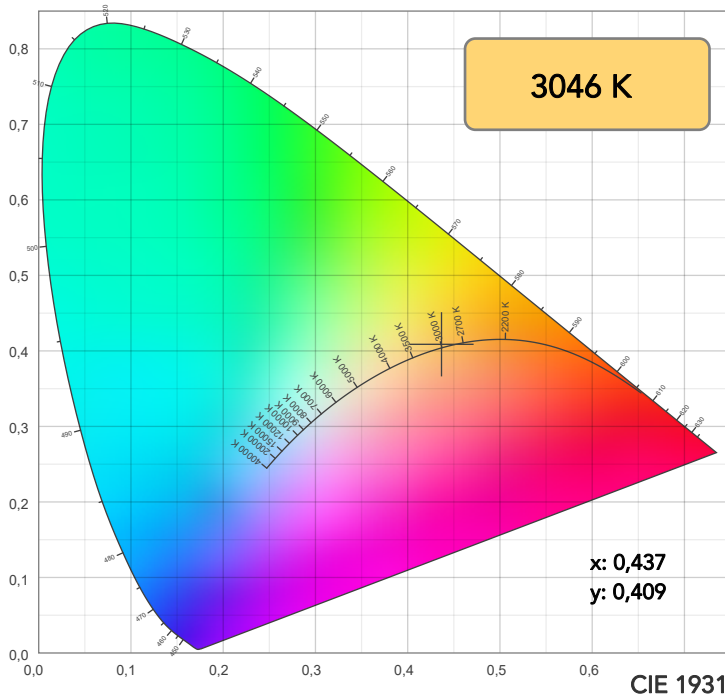
Cut off angle 2.5%: 19,9°

Spectra

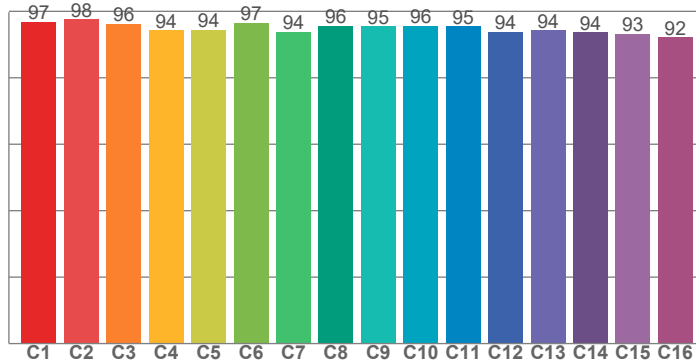




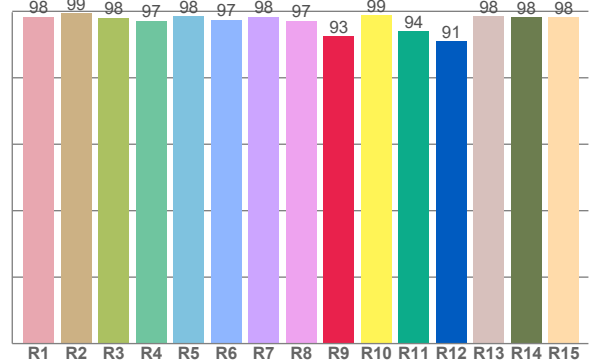
## COLOR DETAILS



TM30: 95,1



CRI: 98,0 (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
98,4	99,3	98,0	97,1	98,4	97,5	98,4	97,1	92,5	98,9	94,0	91,0	98,4	98,1	98,3

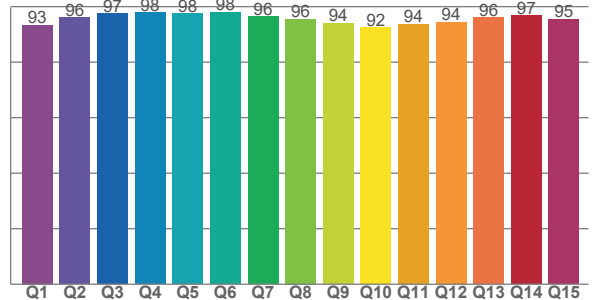
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,8	97,6	96,3	94,2	94,3	96,5	93,8	95,6	95,4	95,7	95,4	93,7	94,3	93,6	93,2	92,1

CQS Q values

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

CQS: 95,2



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
3046 K	98,0	92,5	95,1	99,5	95,2	98	0,437	0,409	0,0019

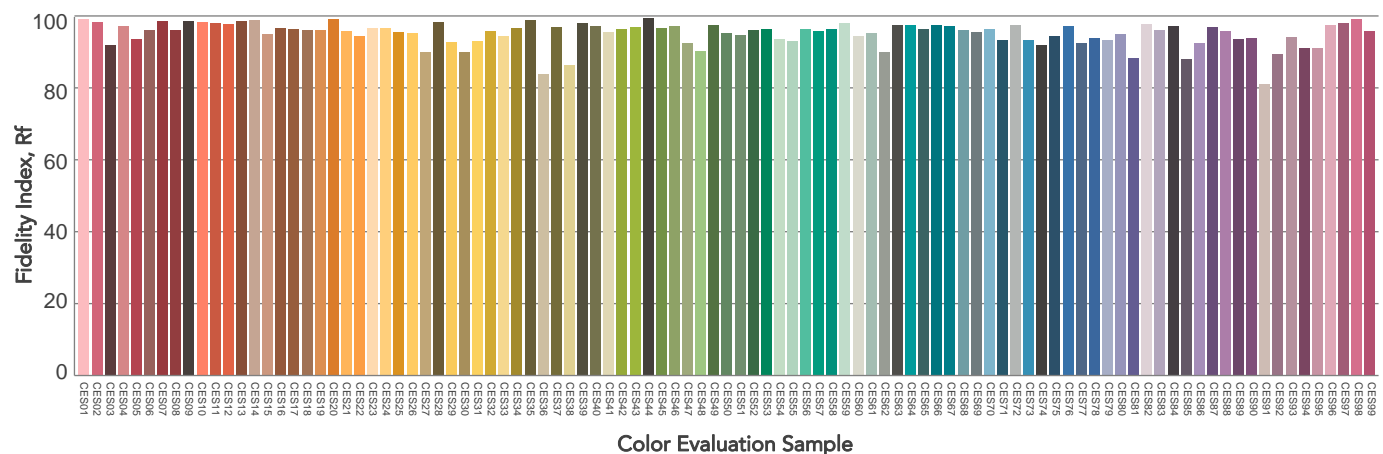
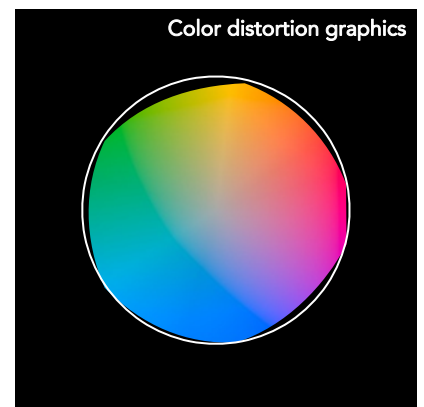
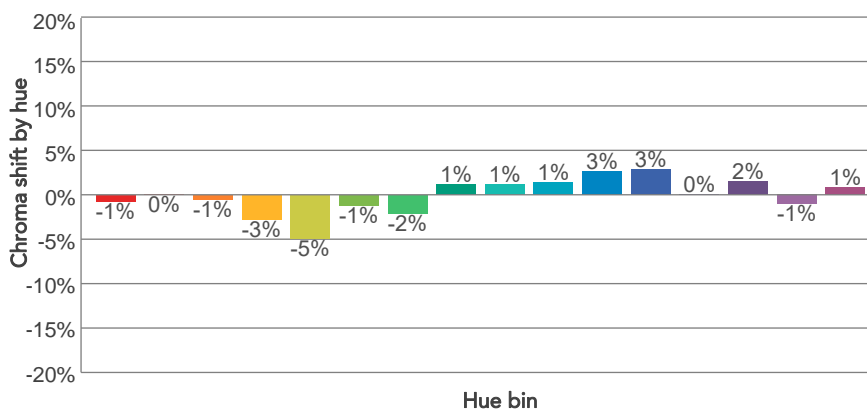
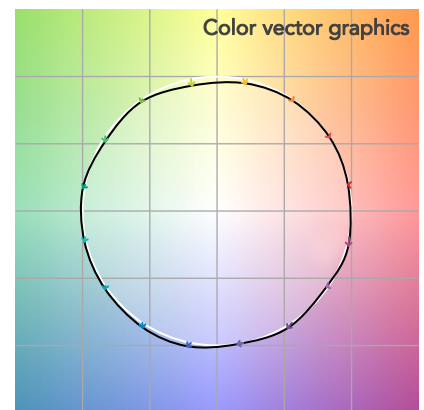
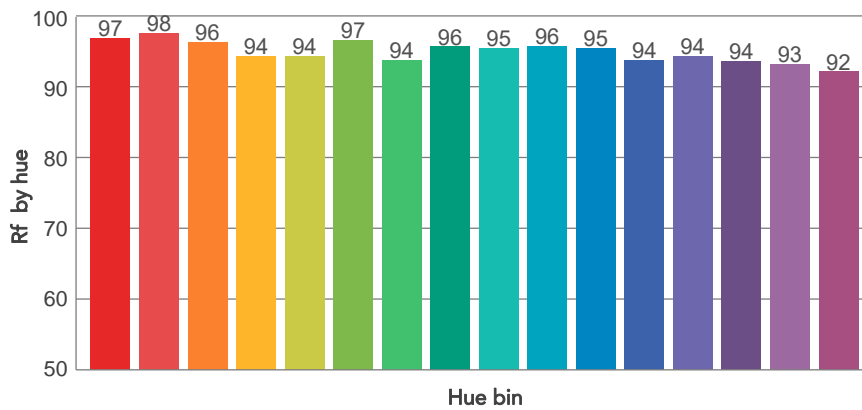
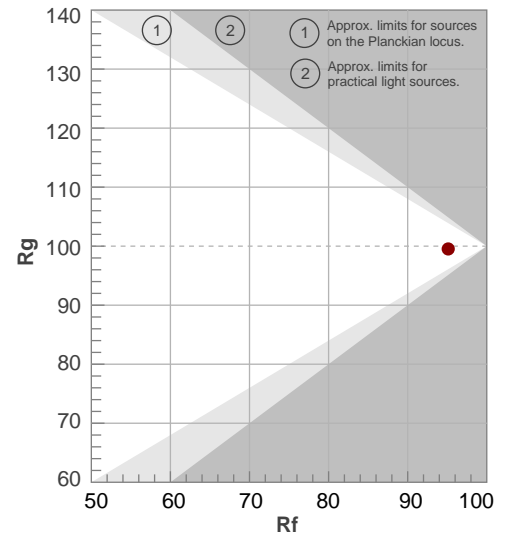


# TM30 DETAILS

**Rf 95,1**  
Fidelity index Rf

**Rg 99,5**  
Gammut index

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

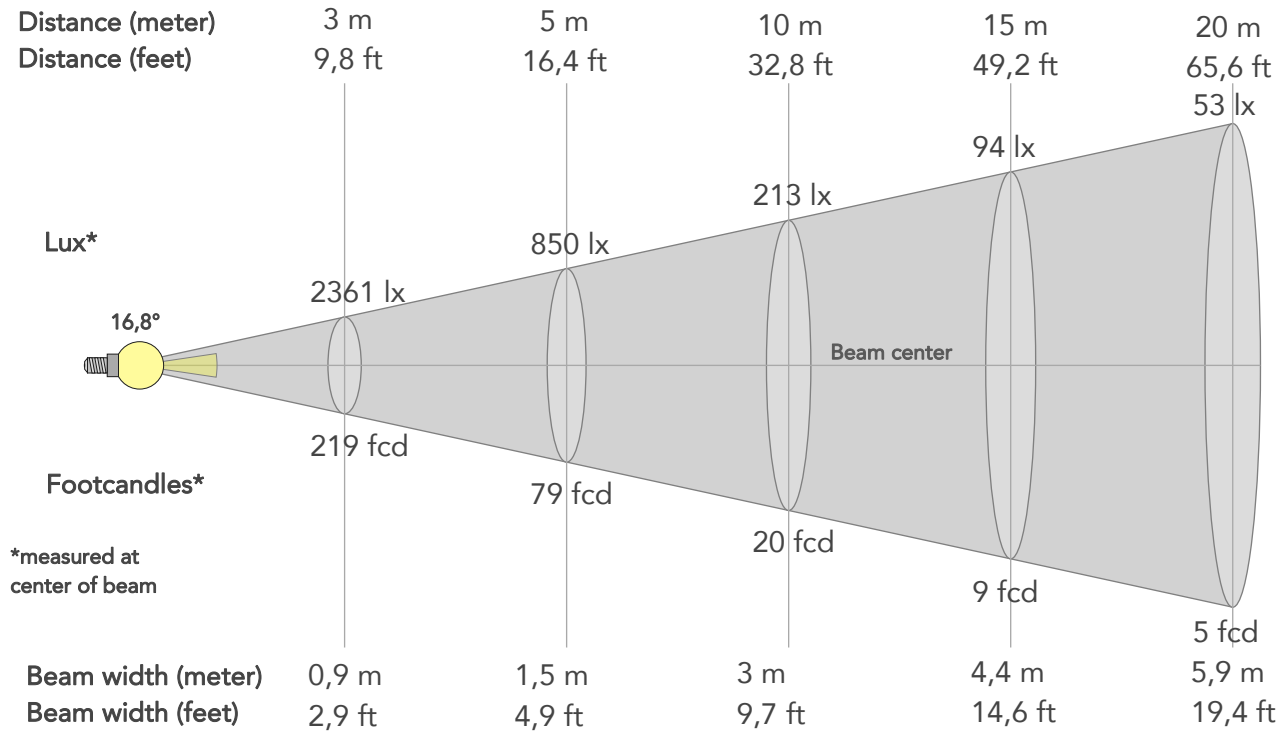




# BEAM DETAILS



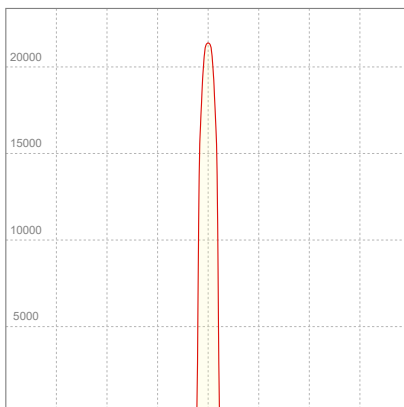
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,8°	19,4°	19,9°	99,6%	99,4%



## 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	21253lx	5313lx	2361lx	1328lx	850lx	378lx	213lx	94lx	53lx	34lx	24lx	13lx	9lx
Footcand.	1974fcd	494fcd	219fcd	123fcd	79fcd	35fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,2m	3m	4,4m	5,9m	7,4m	8,9m	11,8m	14,8m
Beam wid.	1ft	2ft	2,9ft	3,9ft	4,9ft	7,3ft	9,7ft	14,6ft	19,4ft	24,3ft	29,1ft	38,9ft	48,6ft

## LINEAR DISTRIBUTION DIAGRAM



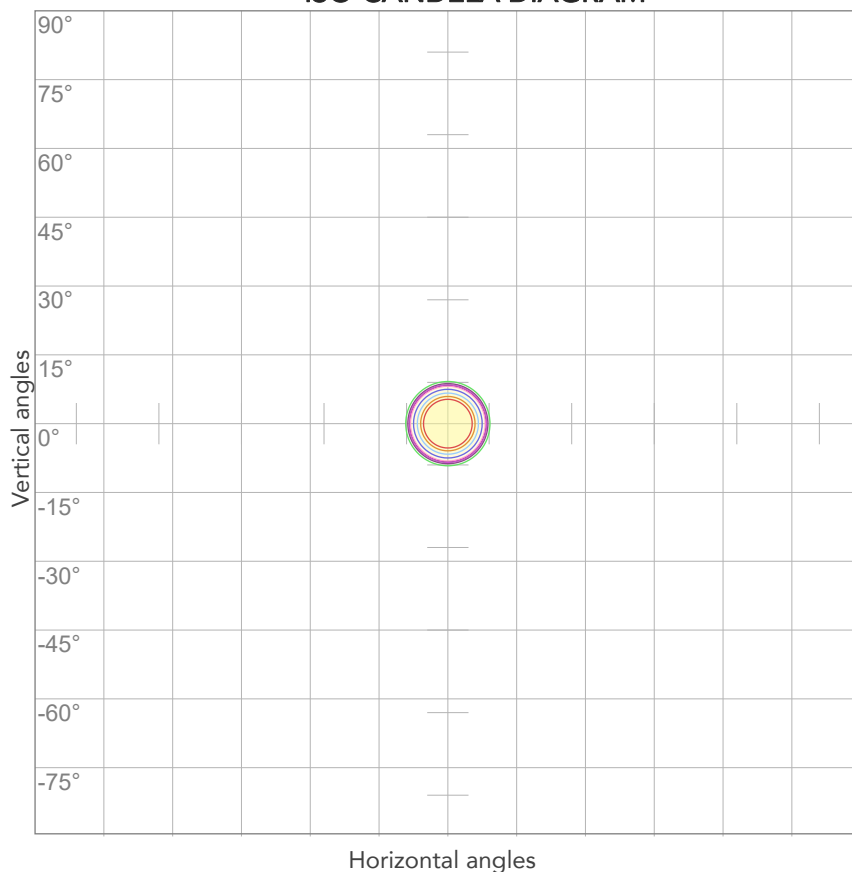
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,154A	33,3W	0,95	40lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



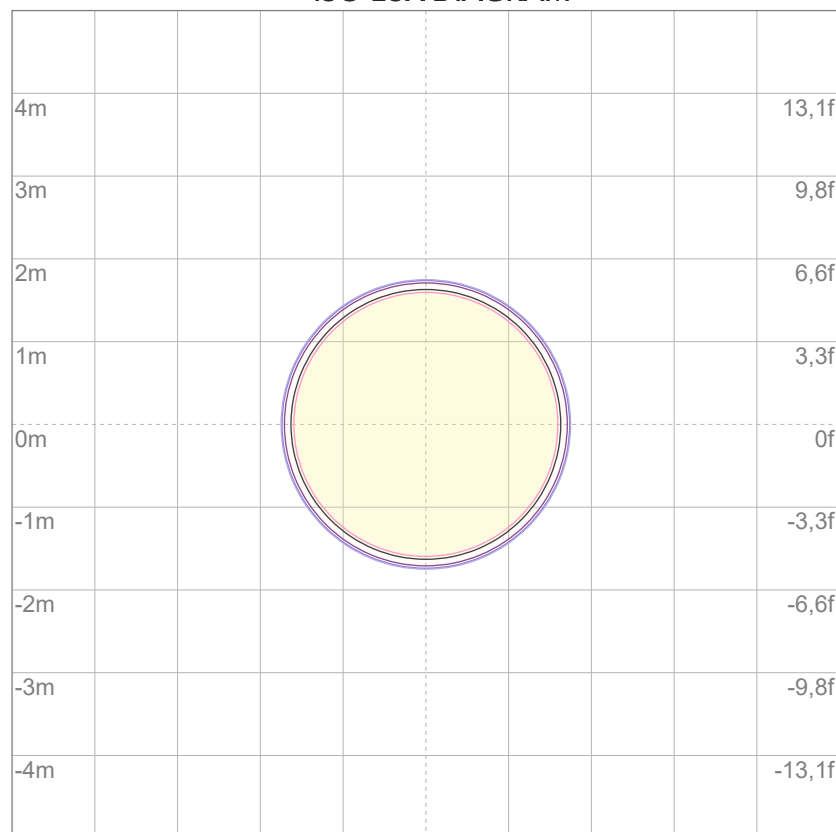
10%	2125 cd
20%	4251 cd
30%	6376 cd
40%	8501 cd
50%	10627 cd
60%	12752 cd
70%	14877 cd
80%	17003 cd

### Conditions:

Number of c-planes: 2

Candela at center: 21253 cd

## ISO LUX DIAGRAM



3%	6,38 lx
5%	10,6 lx
10%	21,3 lx
30%	63,8 lx
50%	106 lx

### Conditions:

Number of c-planes: 2

Lux at center: 213 lx

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





Total lumen output:

1305 lm

Peak candela output:

5470 cd

Light quality:

CRI: 98,1

Color temperature:

3002 K

PRODUCT NAME:

ECLDISPLAYCRMX30K

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36°

Target:

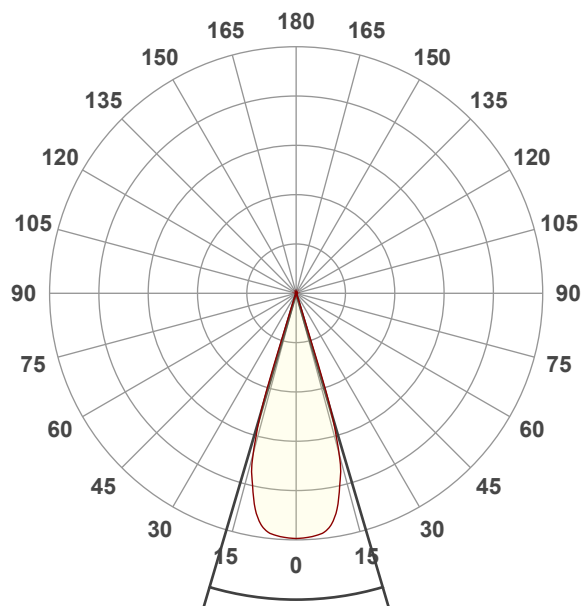
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 11:18:10

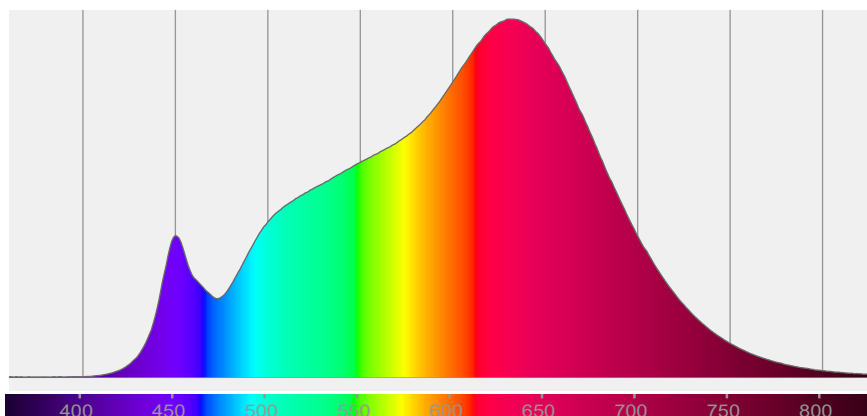


Beam angle 50%: 32,8°

Field angle 10%: 37°

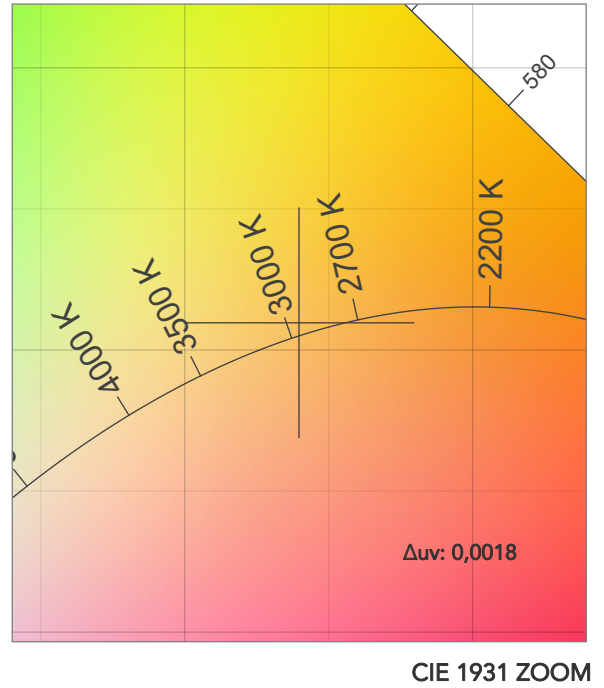
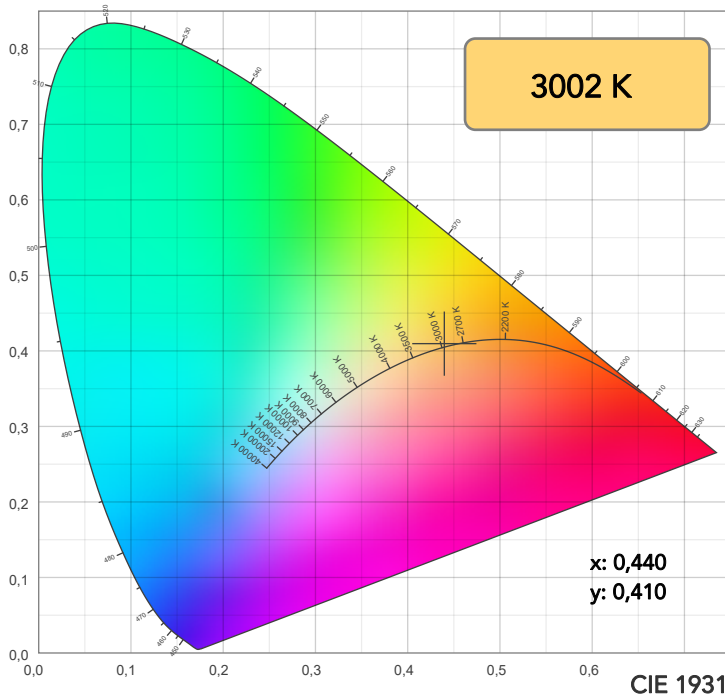
Cut off angle 2.5%: 39,6°

Spectra

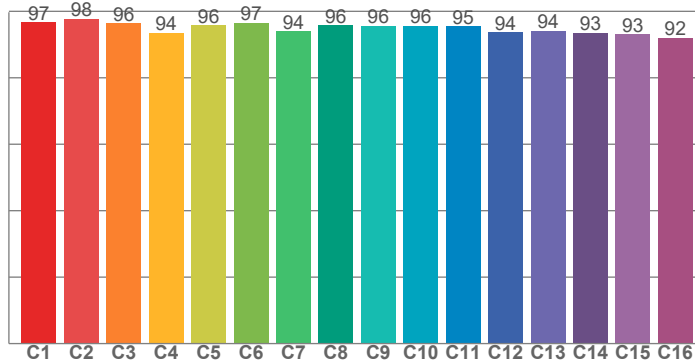




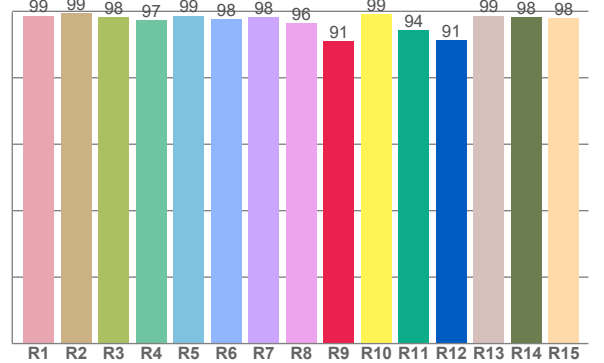
# COLOR DETAILS



TM30: 95,2



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

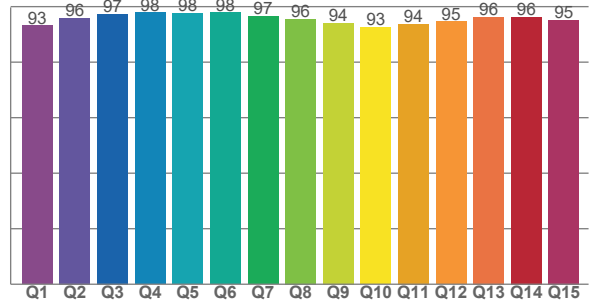
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,7	97,8	96,4	93,6	95,8	96,6	94,0	95,7	95,7	95,6	95,5	93,7	94,1	93,4	93,1	92,1

CQS Q values

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

CQS: 95,2



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3002 K	98,1	91,0	95,2	99,5	95,2	98	0,440	0,410	0,0018



## TM30 DETAILS

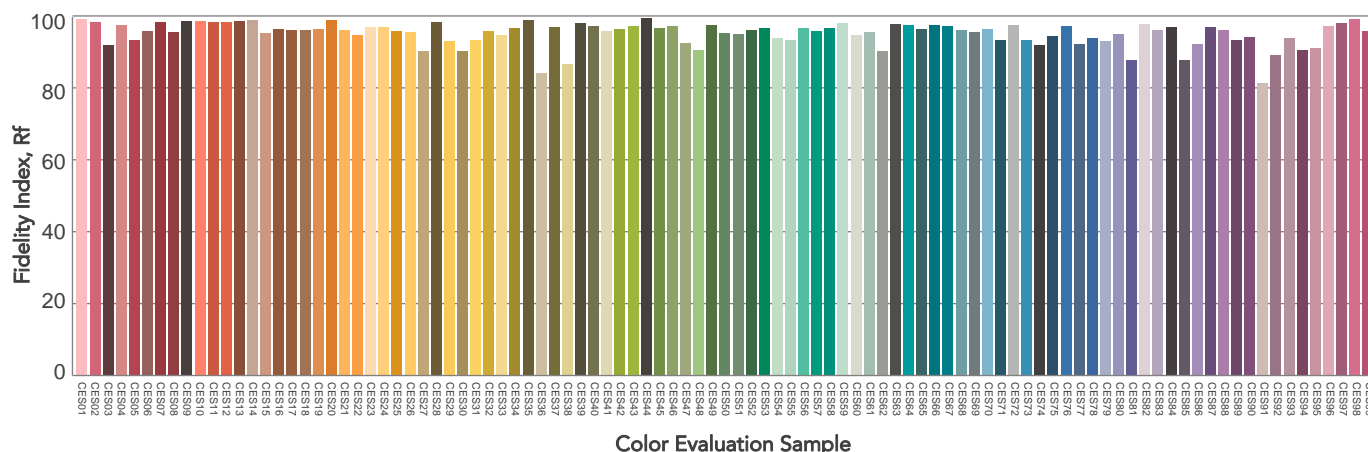
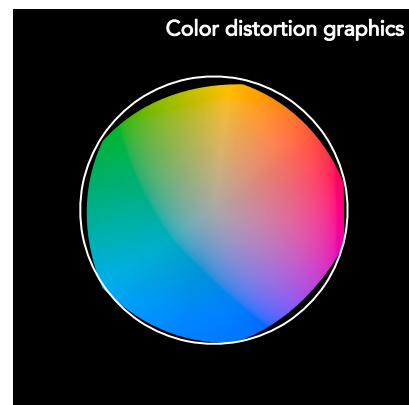
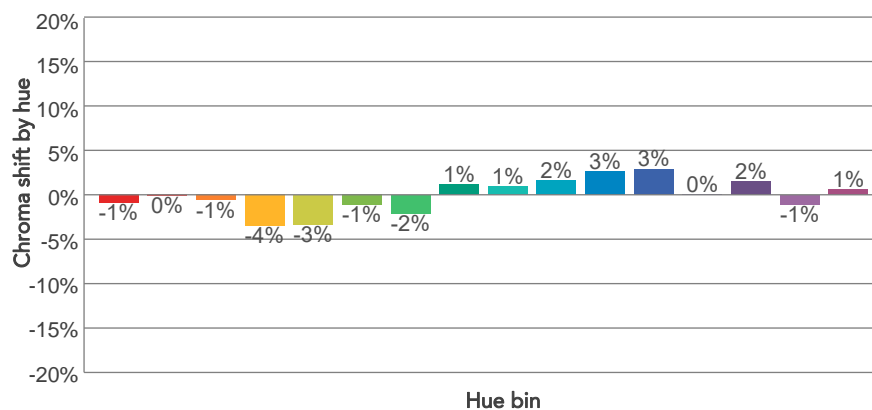
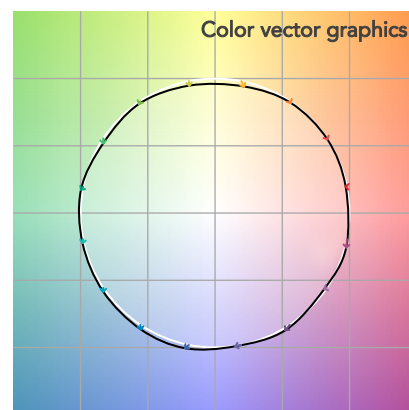
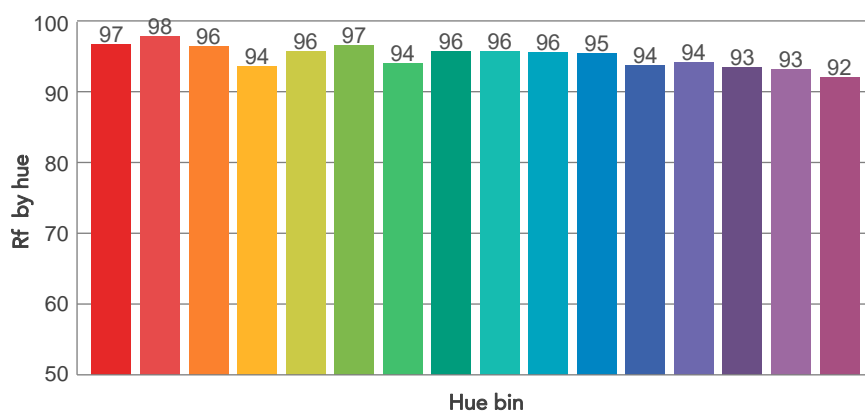
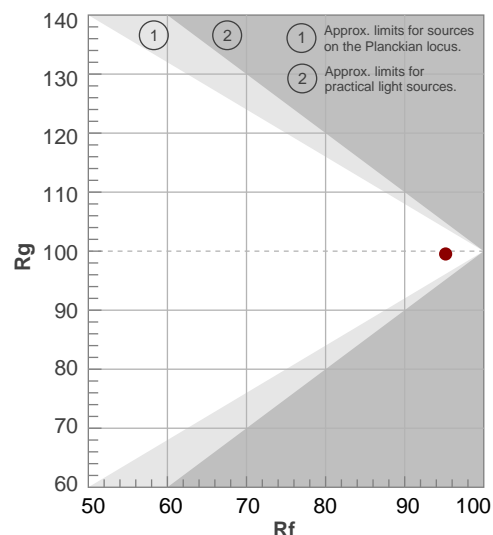
**Rf 95,2**

Fidelity index Rf

**Rg 99,5**

Gammut index

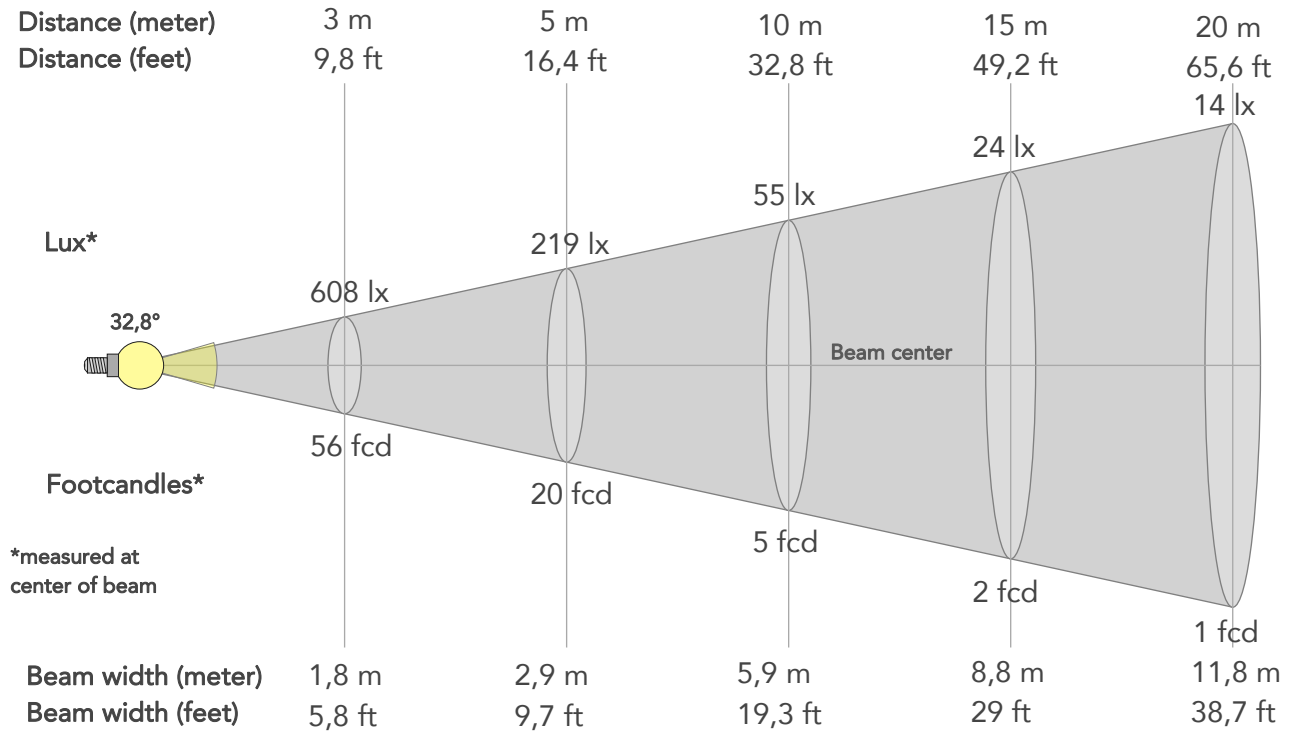
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	97	-1%	0%
2	98	0%	-1%
3	96	-1%	-1%
4	94	-4%	-3%
5	96	-3%	0%
6	97	-1%	2%
7	94	-2%	3%
8	96	1%	2%
9	96	1%	3%
10	96	2%	2%
11	95	3%	2%
12	94	3%	-2%
13	94	0%	-5%
14	93	2%	-5%
15	93	-1%	-2%
16	92	1%	-6%





# BEAM DETAILS

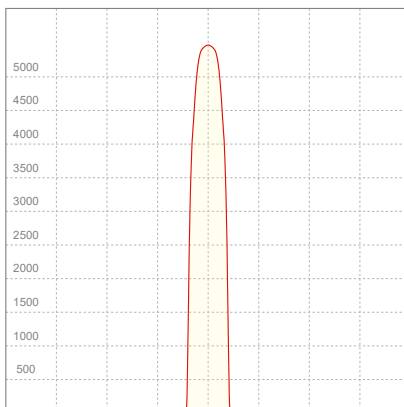
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,8°	37°	39,6°	99,4%	99,3%



## 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	5470lx	1367lx	608lx	342lx	219lx	97lx	55lx	24lx	14lx	9lx	6lx	3lx	2lx
Footcand.	508fcd	127fcd	56fcd	32fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	2,9m	4,4m	5,9m	8,8m	11,8m	14,7m	17,7m	23,6m	29,5m
Beam wid.	1,9ft	3,9ft	5,8ft	7,7ft	9,7ft	14,5ft	19,3ft	29ft	38,7ft	48,3ft	58ft	77,3ft	96,7ft

## LINEAR DISTRIBUTION DIAGRAM



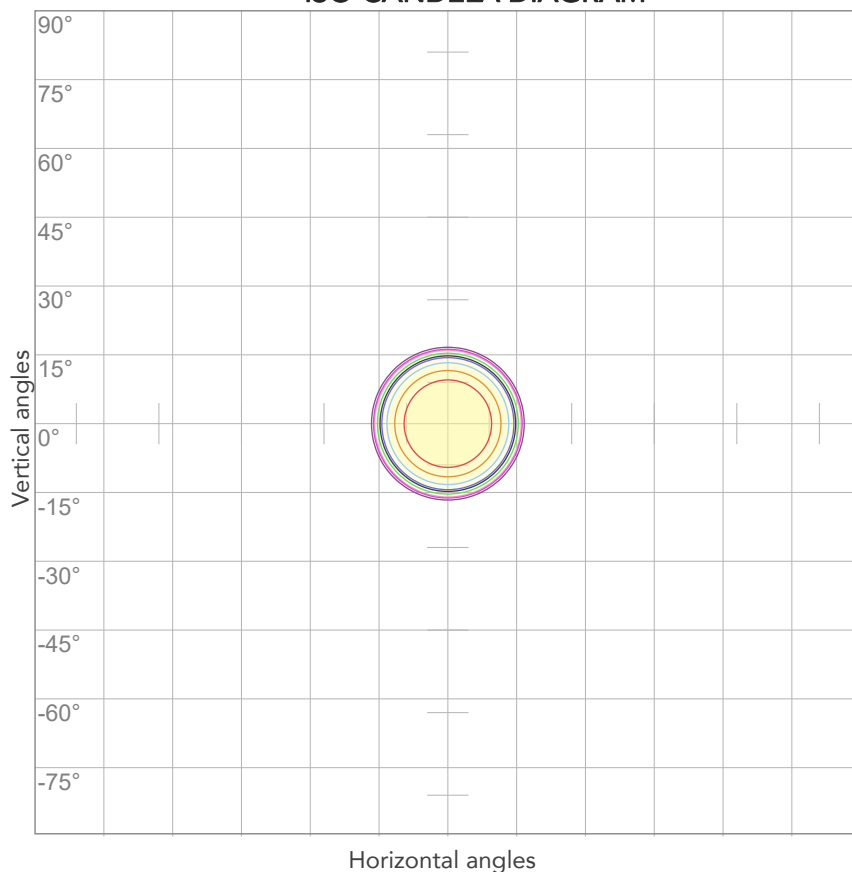
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,155A	33,3W	0,96	39lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



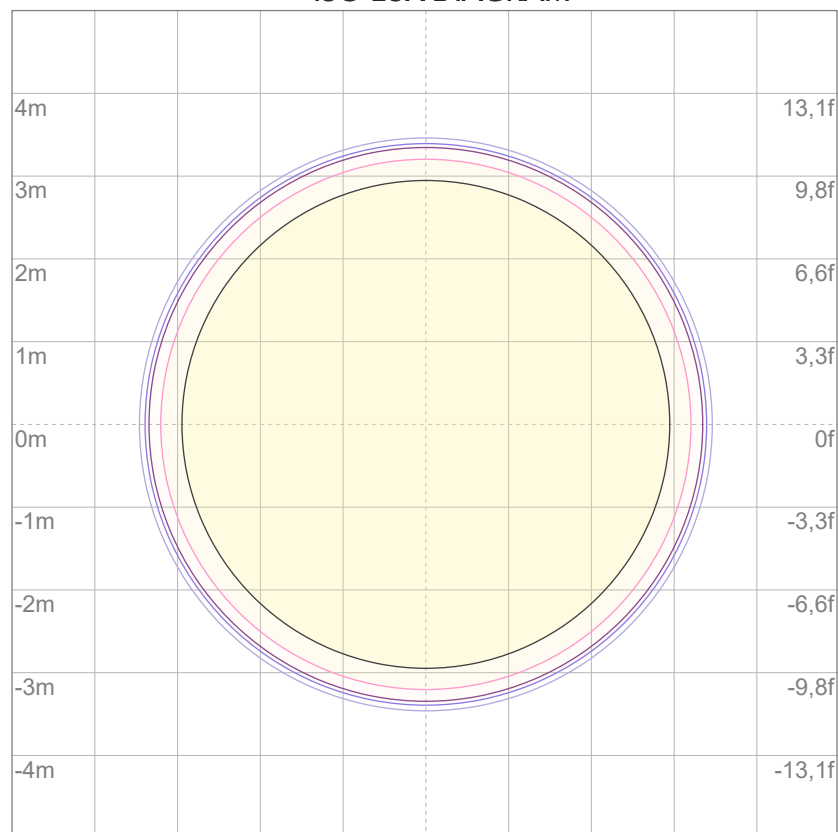
10%	547 cd
20%	1094 cd
30%	1641 cd
40%	2188 cd
50%	2735 cd
60%	3282 cd
70%	3829 cd
80%	4376 cd

### Conditions:

Number of c-planes: 2

Candela at center: 5470 cd

## ISO LUX DIAGRAM



3%	1,64 lx
5%	2,73 lx
10%	5,47 lx
30%	16,4 lx
50%	27,3 lx

### Conditions:

Number of c-planes: 2

Lux at center: 54,7 lx

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





Total lumen output:

1299 lm

Peak candela output:

2411 cd

Light quality:

CRI: 98,0

Color temperature:

2934 K

**PRODUCT NAME:**

ECLDISPLAYCRMX30K

**MEASURAMENT CONDITIONS:**

Beam angle:

Profile 50°

Target:

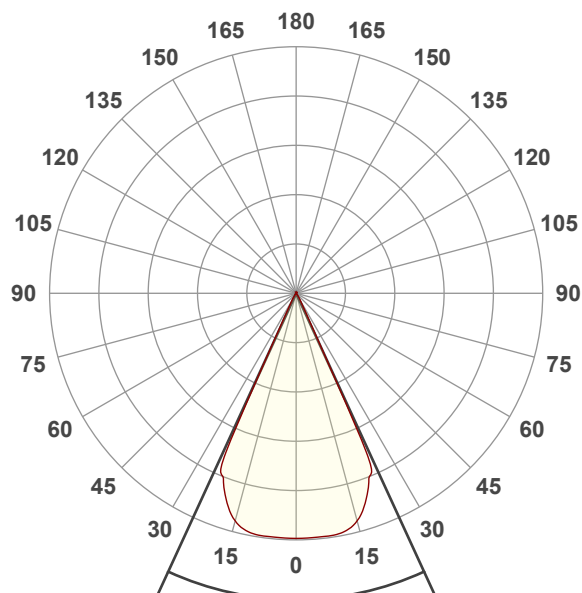
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 11:12:30

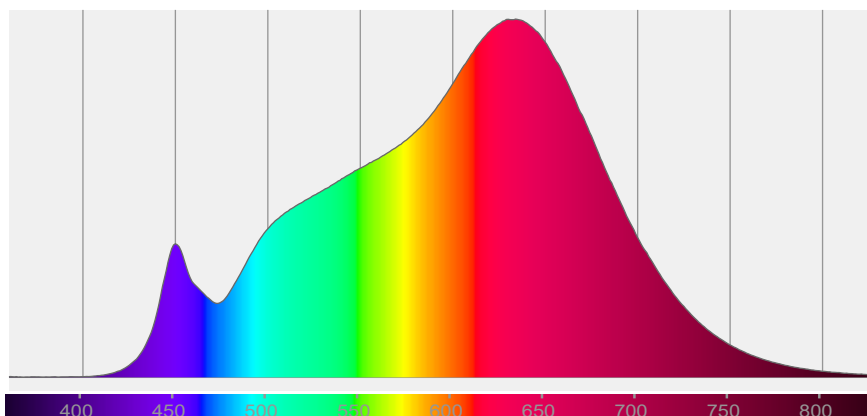


Beam angle 50%: 49,4°

Field angle 10%: 52,6°

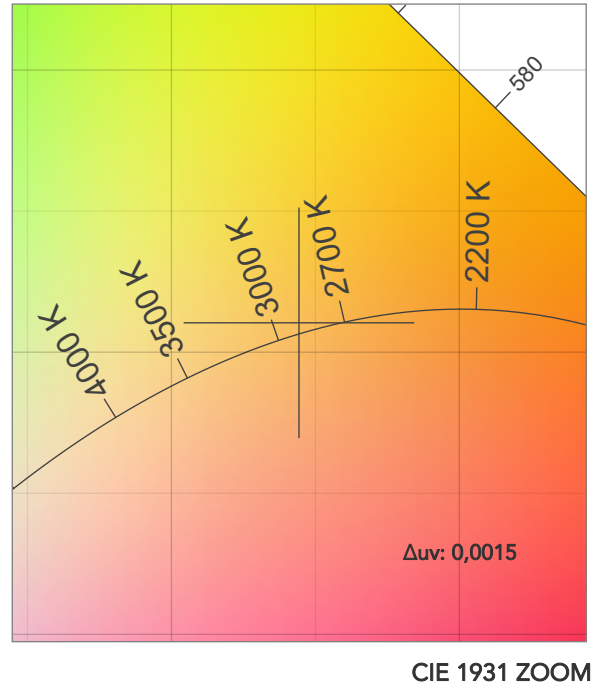
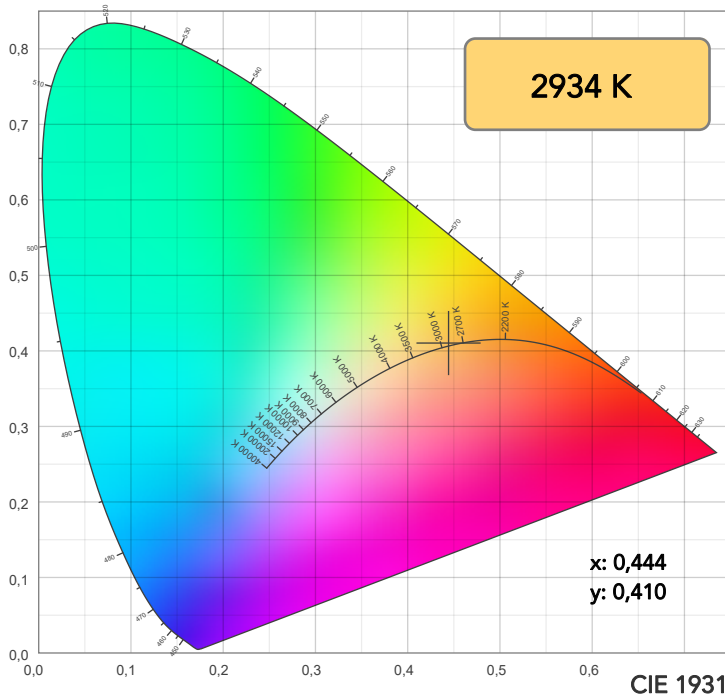
Cut off angle 2.5%: 56,4°

**Spectra**

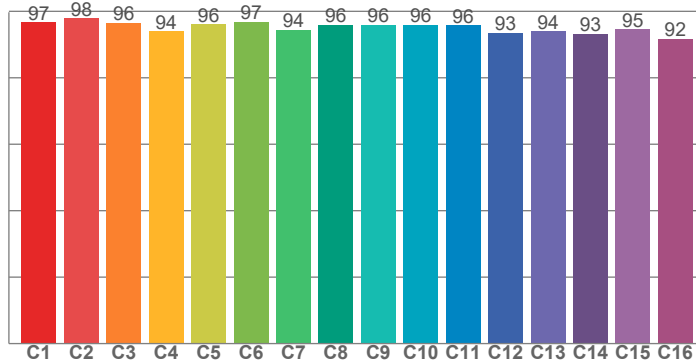




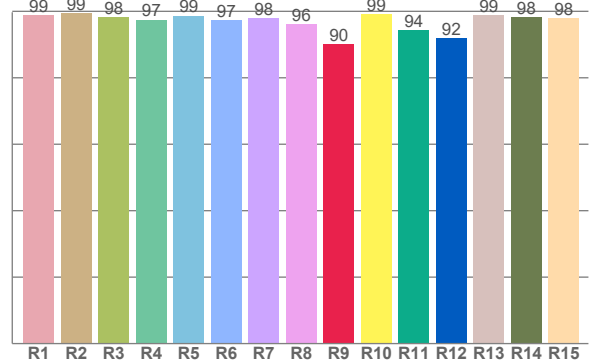
## COLOR DETAILS



TM30: 95,3



CRI: 98,0 (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
98,8	99,4	98,3	97,5	98,7	97,3	98,0	96,0	90,1	99,1	94,3	91,8	98,7	98,2	97,9

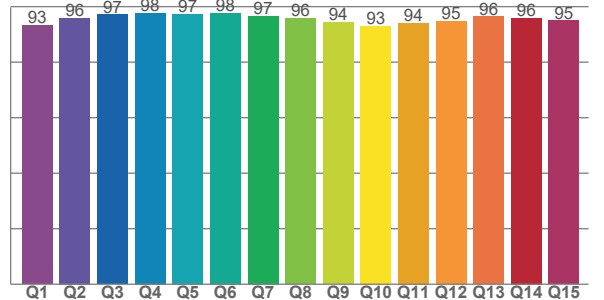
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,3	95,9	97,2	97,8	97,4	97,7	96,7	95,8	94,3	93,0	94,1	94,9	96,4	95,9	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	Δuv
2934 K	98,0	90,1	95,3	99,5	95,3	98	0,444	0,410	0,0015



## TM30 DETAILS

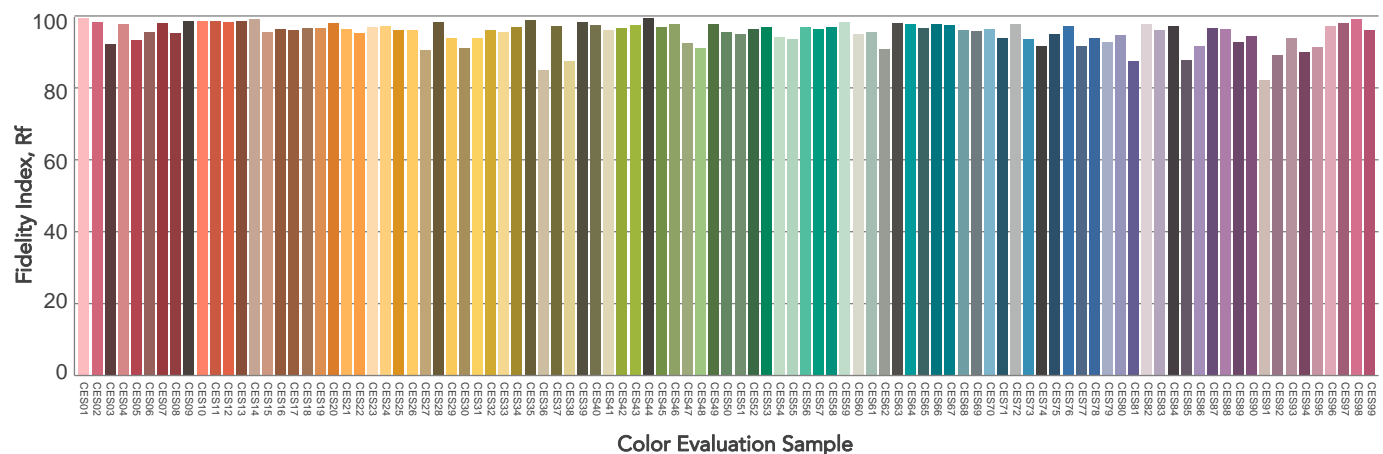
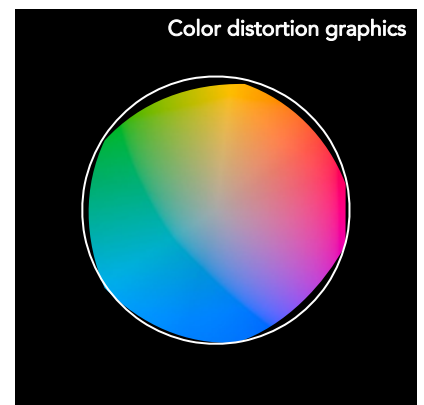
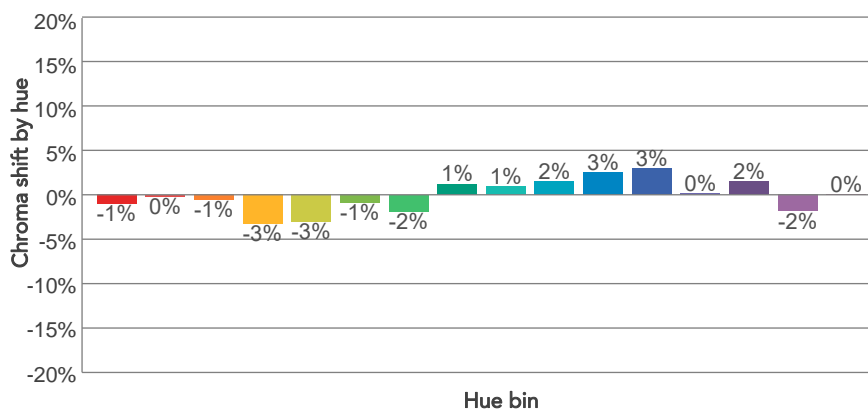
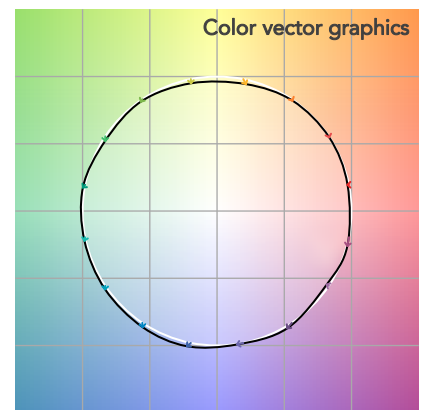
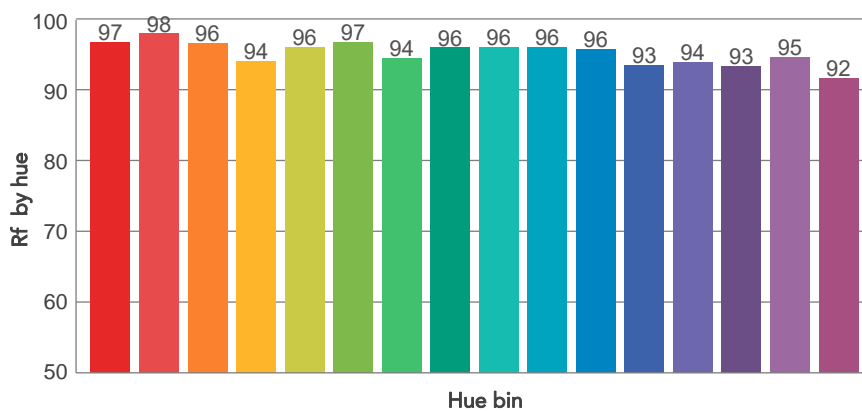
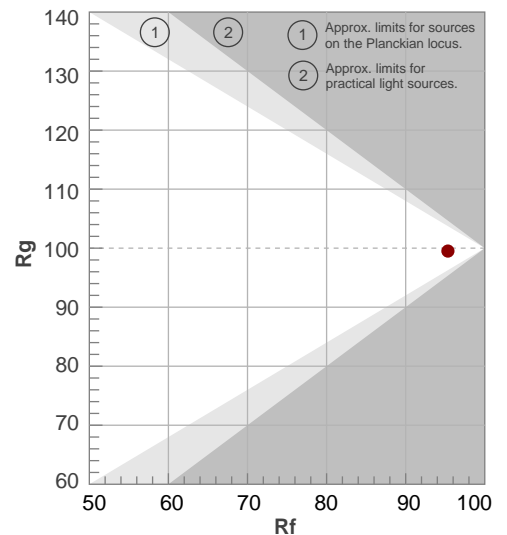
Rf 95,3

Fidelity index  $R_f$

Rg 99,5

## Gammut index

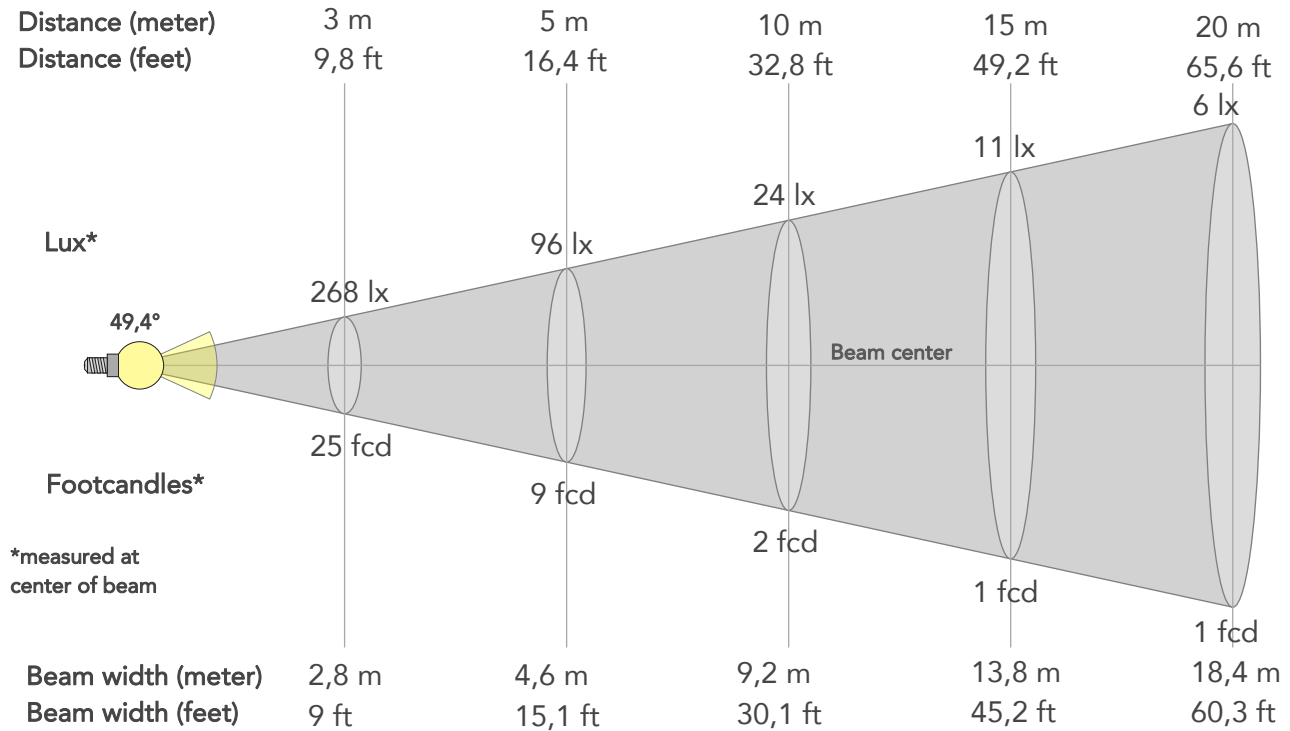
		Graphic shifts (%)	
Hue Bin	$R_f$	Chroma	Hue
1	97	-1%	0%
2	98	0%	-1%
3	96	-1%	-1%
4	94	-3%	-3%
5	96	-3%	0%
6	97	-1%	2%
7	94	-2%	3%
8	96	1%	2%
9	96	1%	2%
10	96	2%	2%
11	96	3%	2%
12	93	3%	-2%
13	94	0%	-5%
14	93	2%	-5%
15	95	-2%	0%
16	92	0%	-7%





# BEAM DETAILS

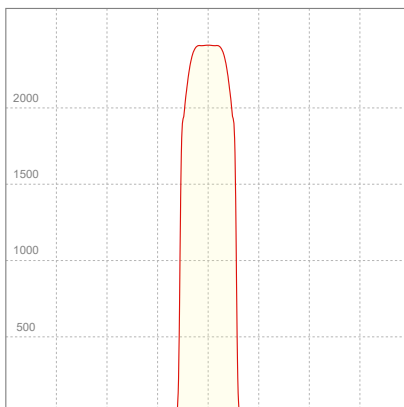
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,4°	52,6°	56,4°	99,8%	99,7%



## 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	2411lx	603lx	268lx	151lx	96lx	43lx	24lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	224fcd	56fcd	25fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,8m	3,7m	4,6m	6,9m	9,2m	13,8m	18,4m	23m	27,6m	36,8m	46m
Beam wid.	3ft	6,1ft	9ft	12ft	15,1ft	22,6ft	30,1ft	45,2ft	60,3ft	75,4ft	90,4ft	120,6ft	150,7ft

## LINEAR DISTRIBUTION DIAGRAM



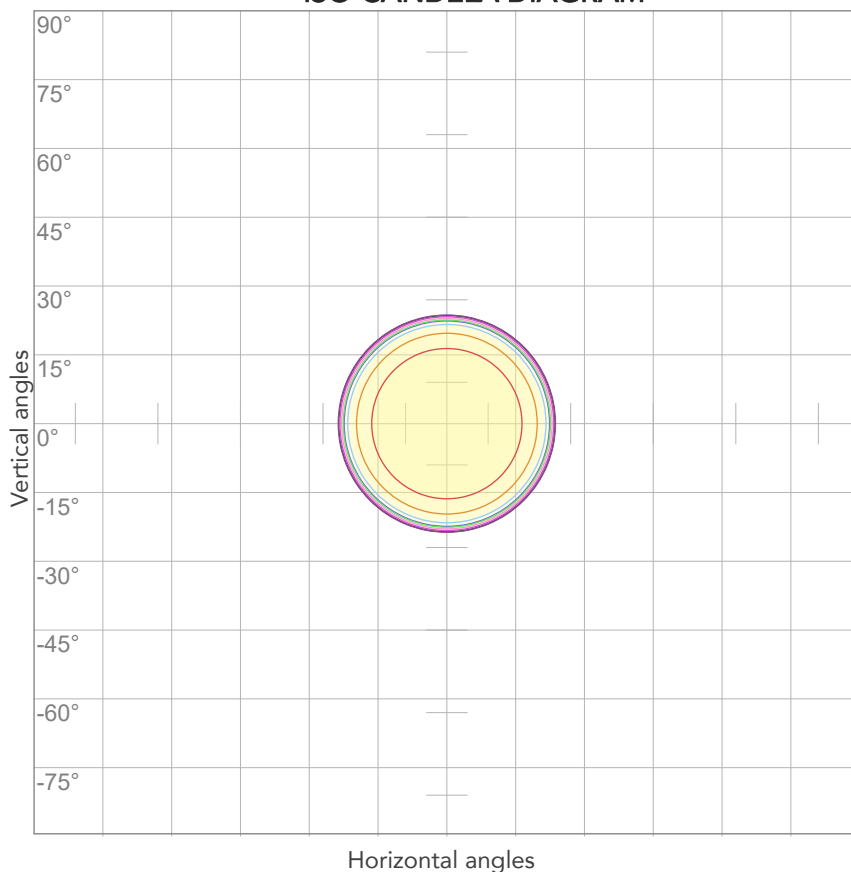
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,155A	33,4W	0,95	39lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



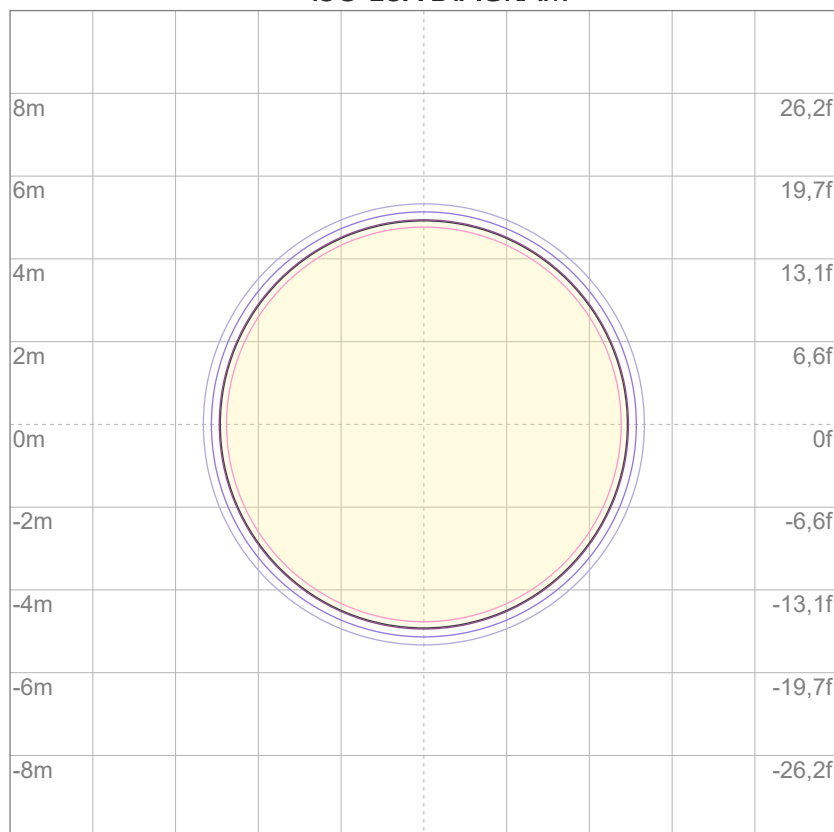
10%	241 cd
20%	482 cd
30%	723 cd
40%	964 cd
50%	1205 cd
60%	1446 cd
70%	1687 cd
80%	1929 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2411 cd

## ISO LUX DIAGRAM



3%	0,723 lx
5%	1,21 lx
10%	2,41 lx
30%	7,23 lx
50%	12,1 lx

### Conditions:

Number of c-planes: 2

Lux at center: 24,1 lx

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





Total lumen output:

1377 lm

Peak candela output:

4685 cd

Light quality:

CRI: 98,2

Color temperature:

3030 K

**PRODUCT NAME:**  
ECLDISPLAYCRMX30K

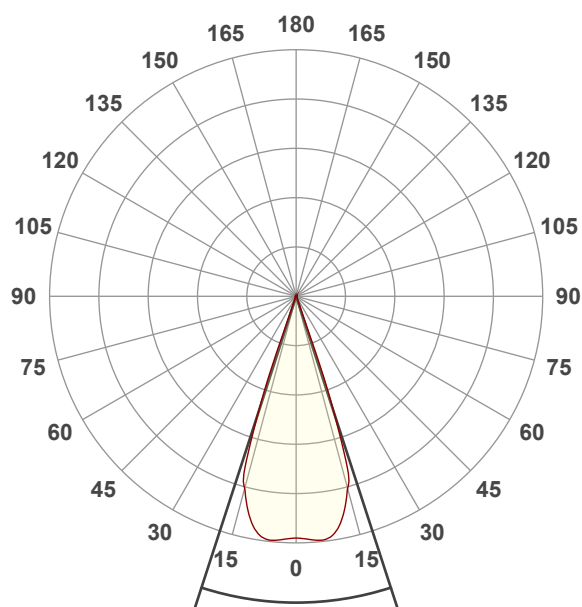
**MEASURAMENT CONDITIONS:**

Beam angle:  
Profile 2040 Max Zoom

Target:  
Full On

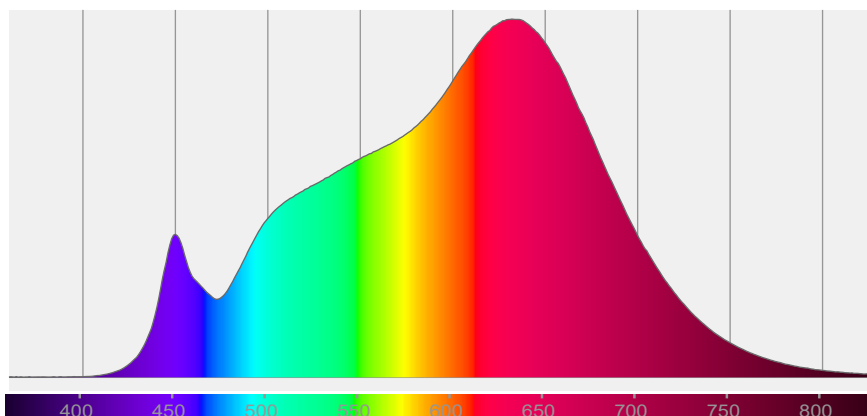
Operator:  
Giacomo Matteo

Date and time:  
18/06/2024 10:55:49



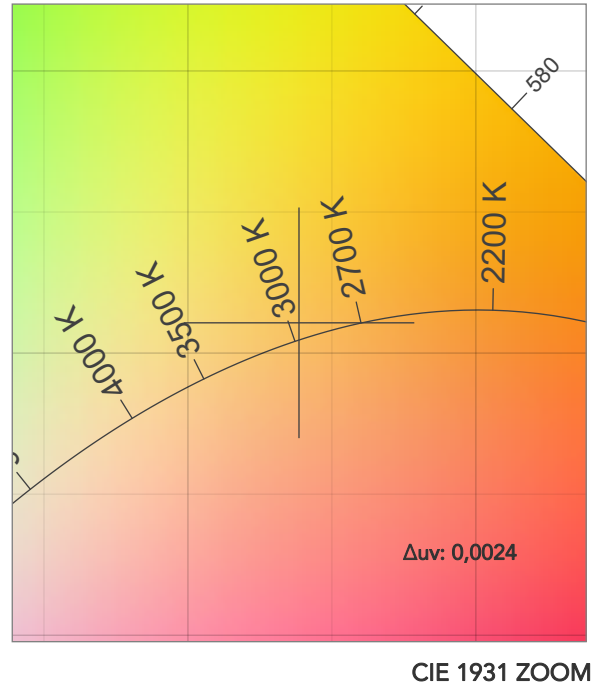
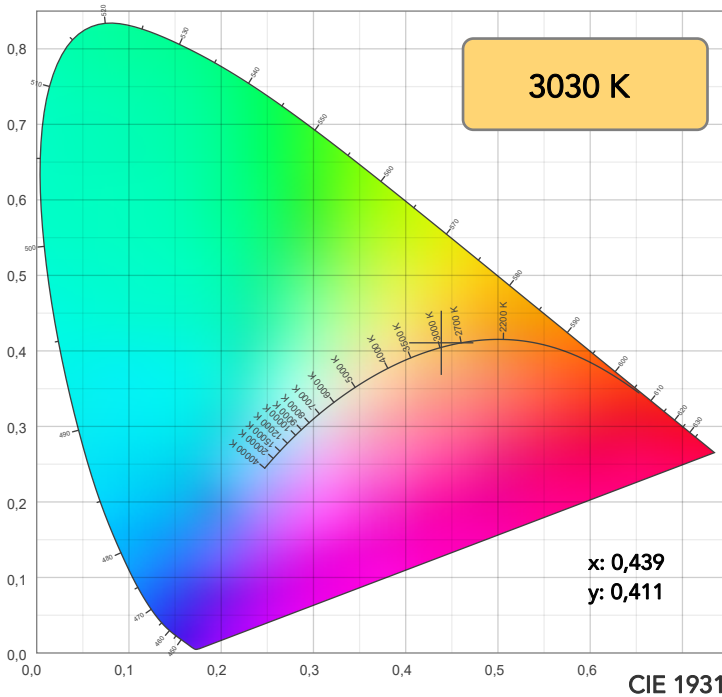
Beam angle 50%: 36°  
Field angle 10%: 40,5°  
Cut off angle 2.5%: 42,4°

**Spectra**

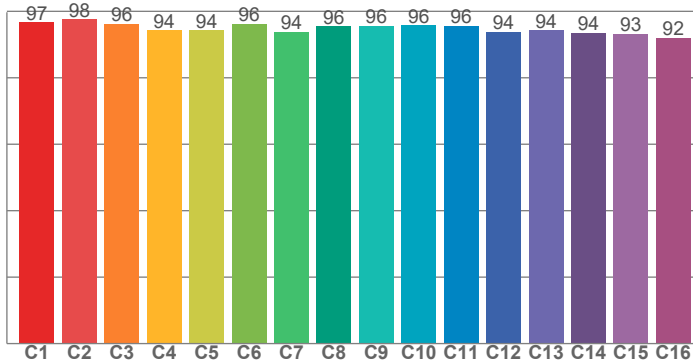




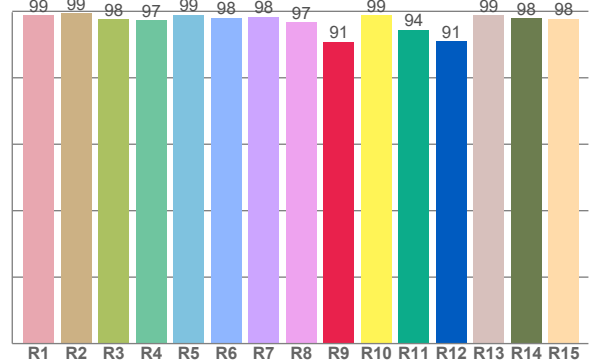
# COLOR DETAILS



**TM30: 95,1**



**CRI: 98,2 (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
98,9	99,4	97,7	97,4	99,0	98,1	98,4	96,6	90,9	98,7	94,4	91,0	98,9	98,0	97,8

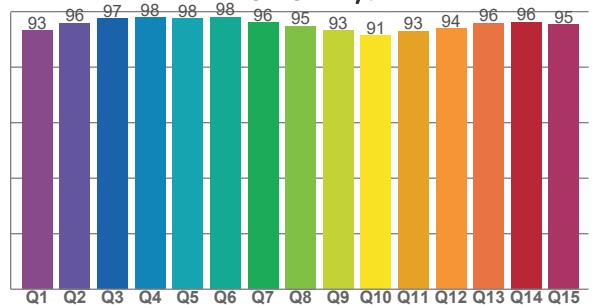
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,7	97,6	96,3	94,2	94,3	96,3	93,8	95,5	95,5	95,8	95,5	93,9	94,3	93,6	93,2	92,1

CQS Q values

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

**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
3030 K	98,2	90,9	95,1	99,3	94,8	98	0,439	0,411	0,0024

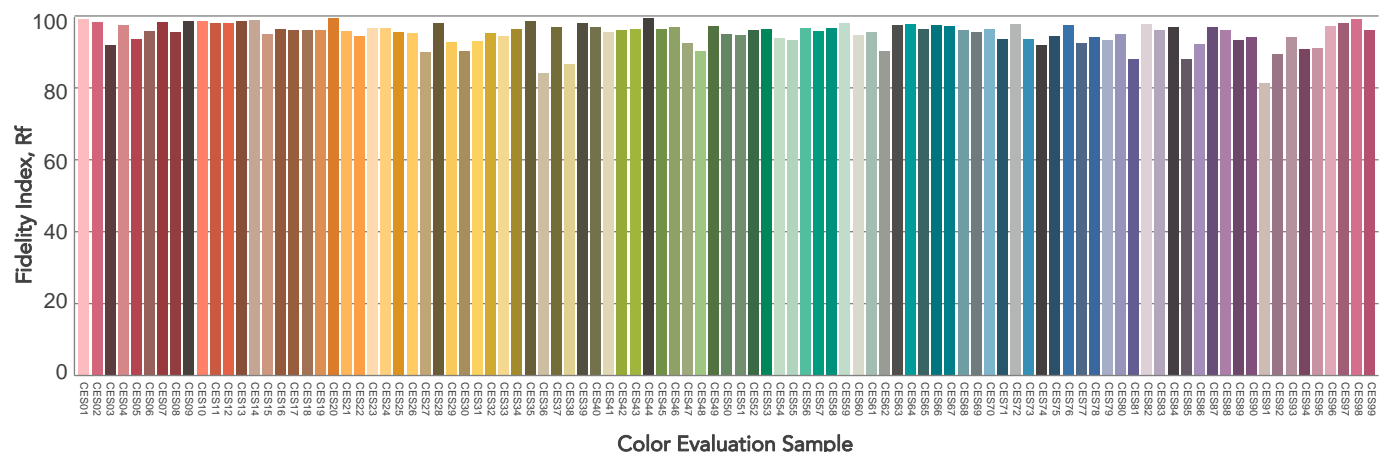
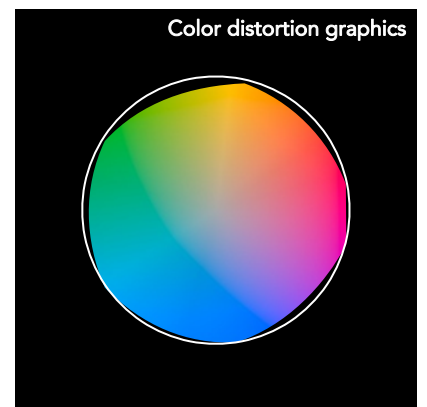
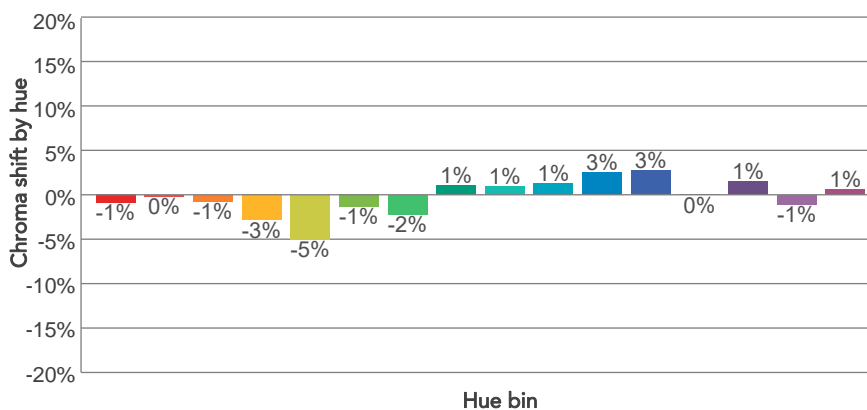
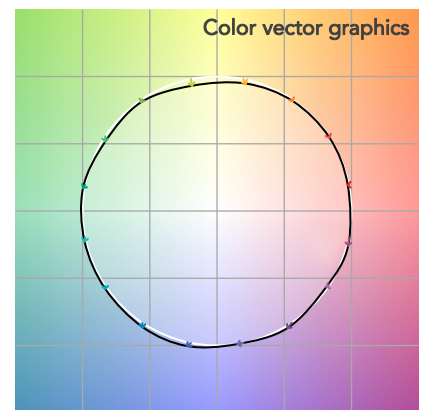
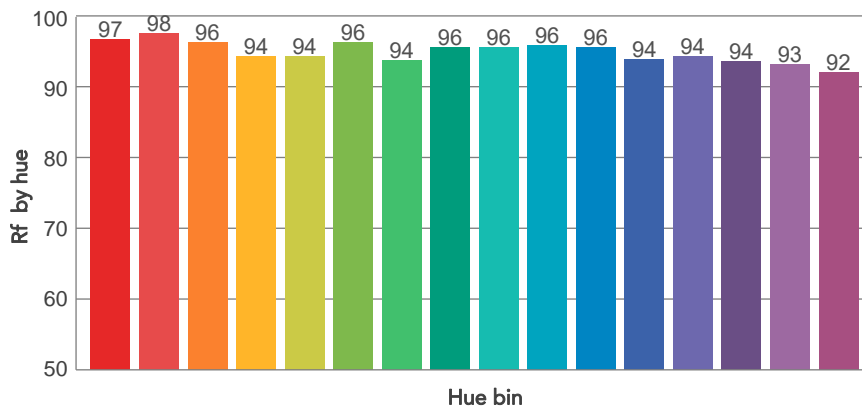
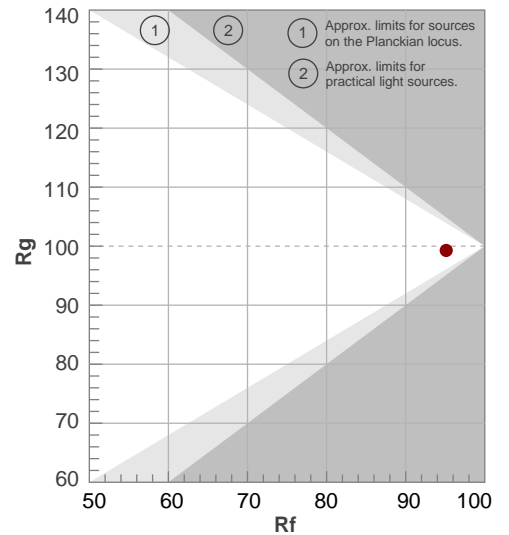


# TM30 DETAILS

**Rf 95,1**  
Fidelity index Rf

**Rg 99,3**  
Gammut index

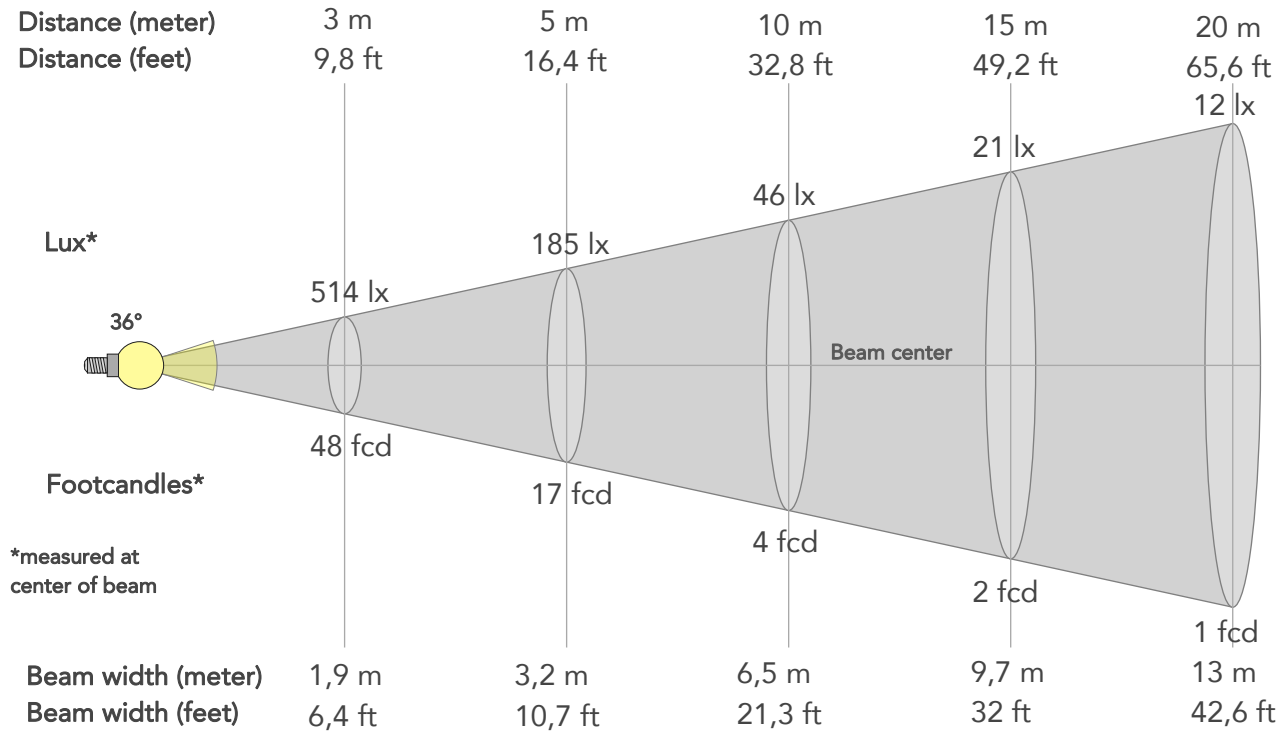
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	97	-1%	0%
2	98	0%	-1%
3	96	-1%	-1%
4	94	-3%	-3%
5	94	-5%	0%
6	96	-1%	2%
7	94	-2%	3%
8	96	1%	3%
9	96	1%	3%
10	96	1%	2%
11	96	3%	2%
12	94	3%	-2%
13	94	0%	-4%
14	94	1%	-5%
15	93	-1%	-2%
16	92	1%	-6%





# BEAM DETAILS

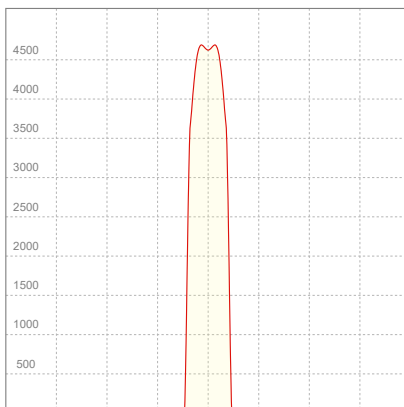
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36°	40,5°	42,4°	99,4%	99,4%



## 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	4625lx	1156lx	514lx	289lx	185lx	82lx	46lx	21lx	12lx	7lx	5lx	3lx	2lx
Footcand.	430fcd	107fcd	48fcd	27fcd	17fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,3m	1,9m	2,6m	3,2m	4,9m	6,5m	9,7m	13m	16,2m	19,5m	26m	32,5m
Beam wid.	2,1ft	4,3ft	6,4ft	8,5ft	10,7ft	16ft	21,3ft	32ft	42,6ft	53,3ft	64ft	85,3ft	106,6ft

## LINEAR DISTRIBUTION DIAGRAM



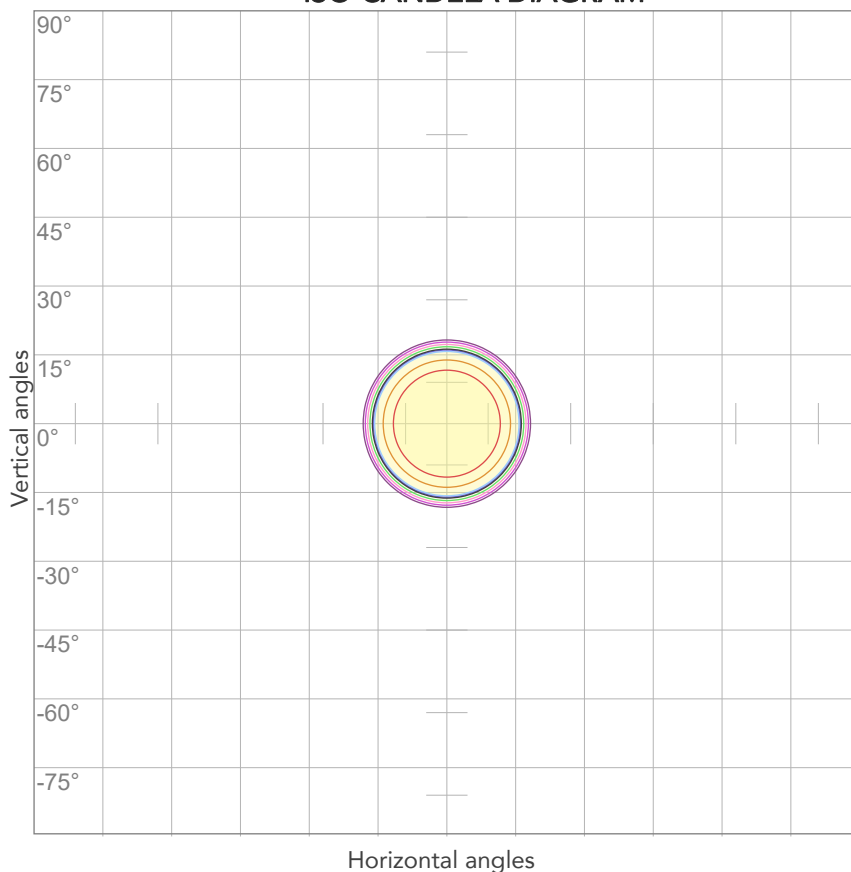
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,156A	33,6W	0,96	41lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



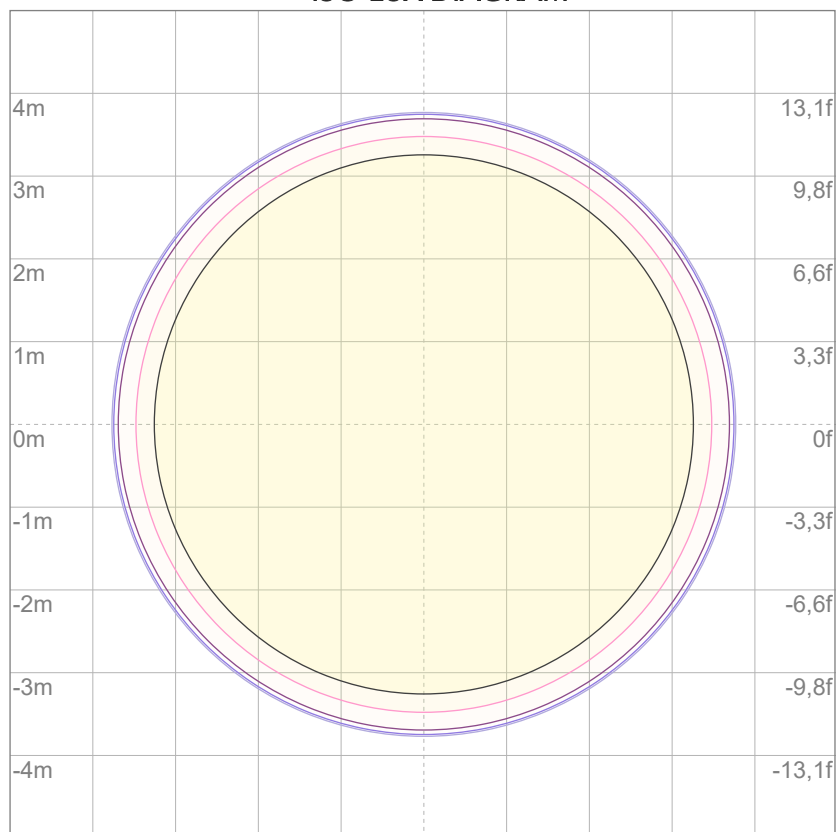
10%	462 cd
20%	925 cd
30%	1387 cd
40%	1850 cd
50%	2312 cd
60%	2775 cd
70%	3237 cd
80%	3700 cd

### Conditions:

Number of c-planes: 2

Candela at center: 4625 cd

## ISO LUX DIAGRAM



3%	1,39 lx
5%	2,31 lx
10%	4,62 lx
30%	13,9 lx
50%	23,1 lx

### Conditions:

Number of c-planes: 2

Lux at center: 46,2 lx

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





Total lumen output:

1352 lm

Peak candela output:

15789 cd

Light quality:

CRI: 98,2

Color temperature:

3021 K

**PRODUCT NAME:**  
ECLDISPLAYCRMX30K

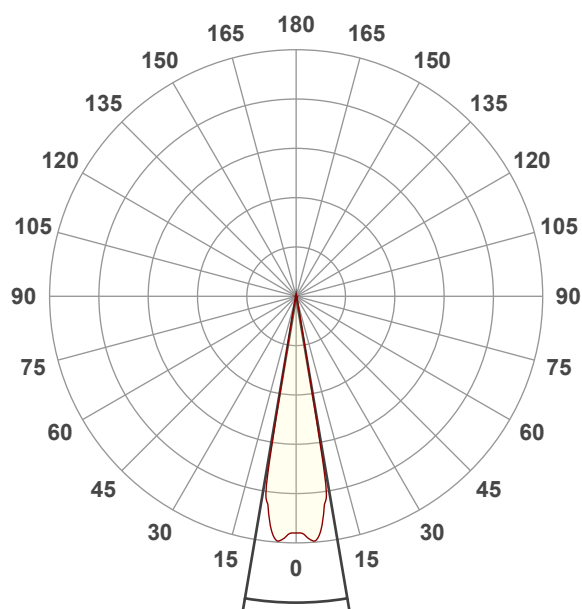
**MEASURAMENT CONDITIONS:**

Beam angle:  
Profile 2040 Min Zoom

Target:  
Full On

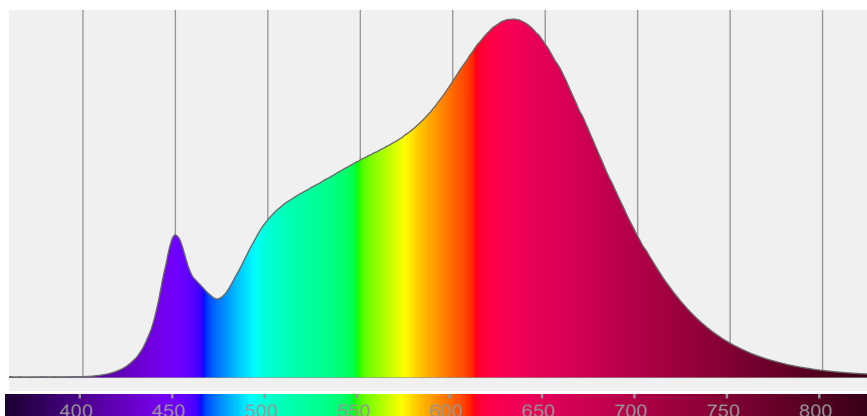
Operator:  
Giacomo Matteo

Date and time:  
18/06/2024 10:57:43



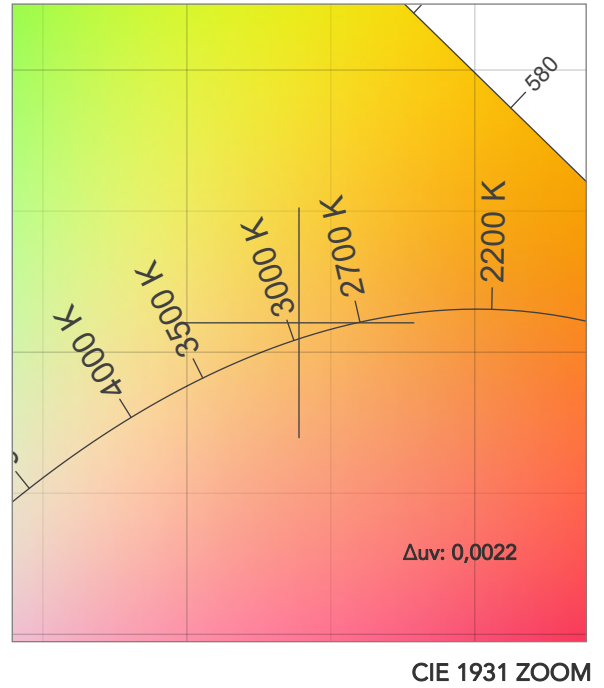
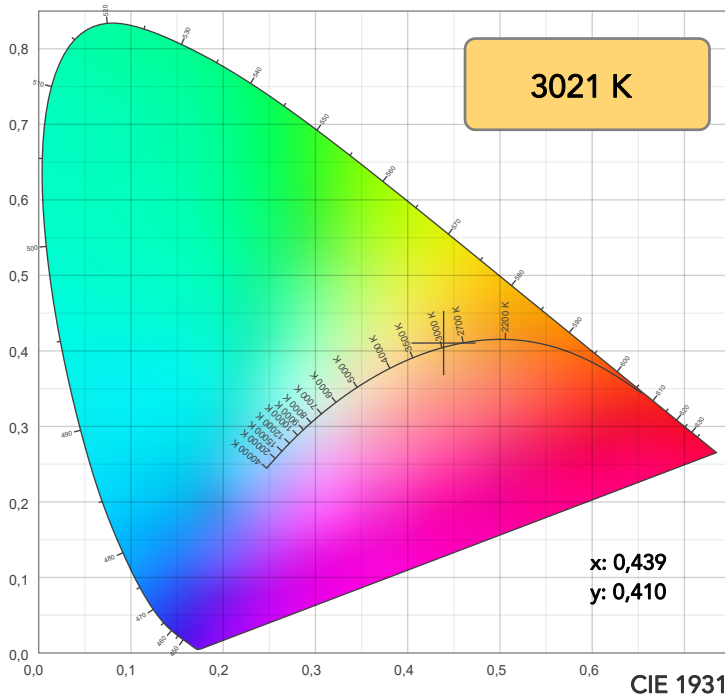
Beam angle 50%: 19,2°  
Field angle 10%: 21,1°  
Cut off angle 2.5%: 23,4°

**Spectra**

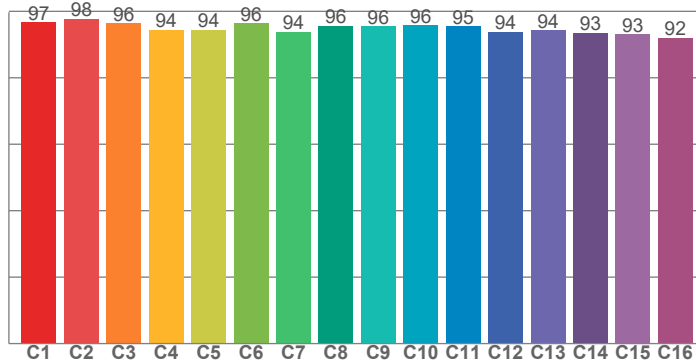




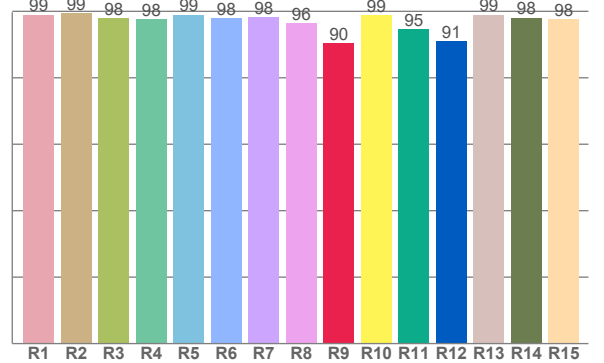
# COLOR DETAILS



TM30: 95,1



CRI: 98,2 (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
99,0	99,4	97,9	97,5	99,0	98,0	98,2	96,4	90,5	98,9	94,6	91,0	98,9	98,1	97,7

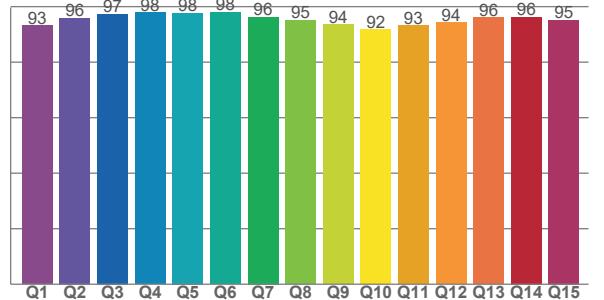
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,6	97,7	96,4	94,4	94,4	96,4	93,9	95,6	95,5	95,8	95,5	93,8	94,2	93,5	93,1	92,0

CQS Q values

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

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	$\Delta uv$
3021 K	98,2	90,5	95,1	99,3	94,9	98	0,439	0,410	0,0022

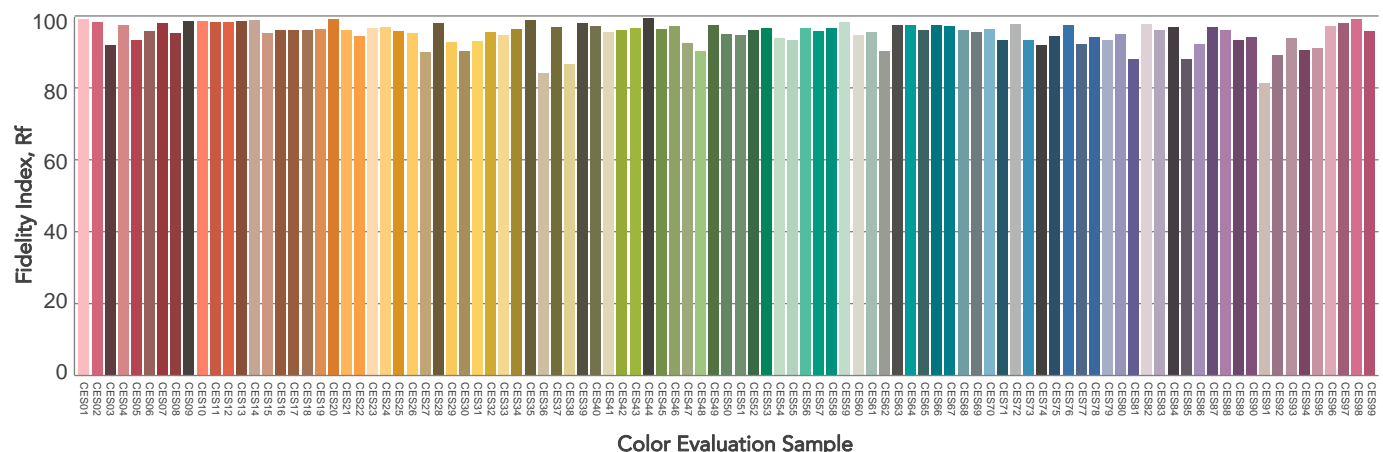
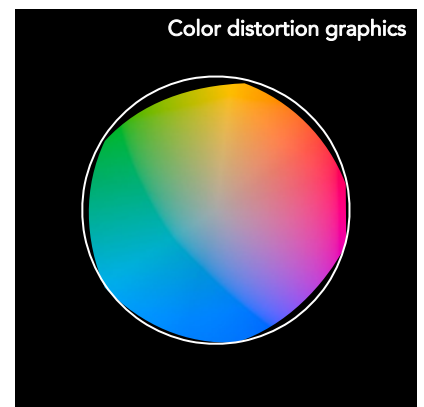
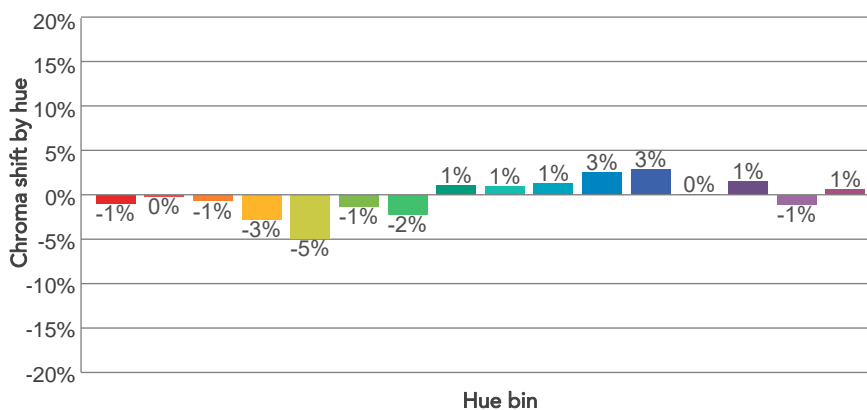
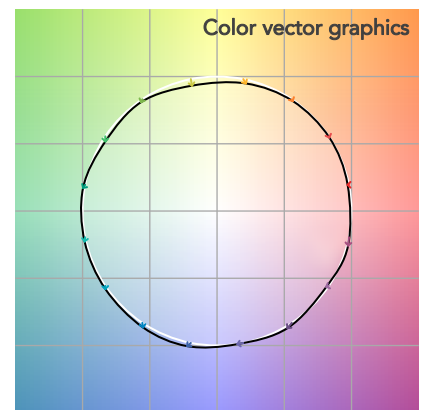
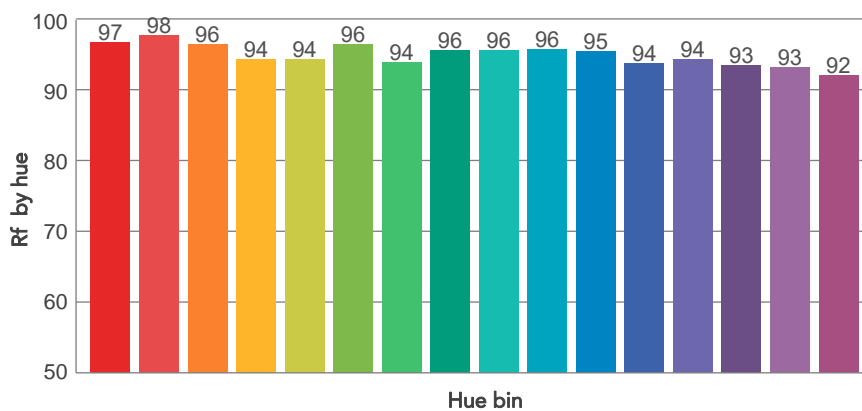
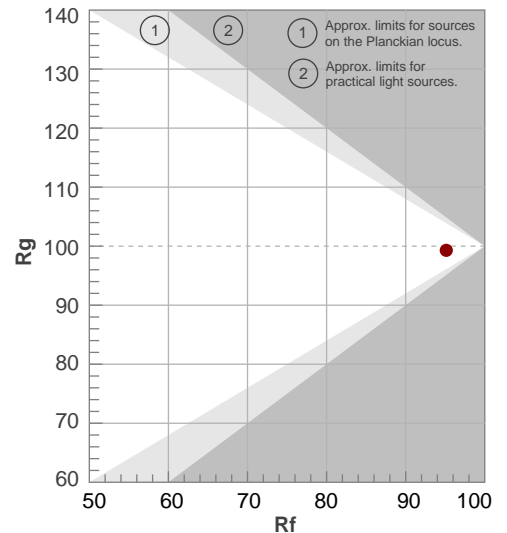


# TM30 DETAILS

**Rf 95,1**  
Fidelity index Rf

**Rg 99,3**  
Gammut index

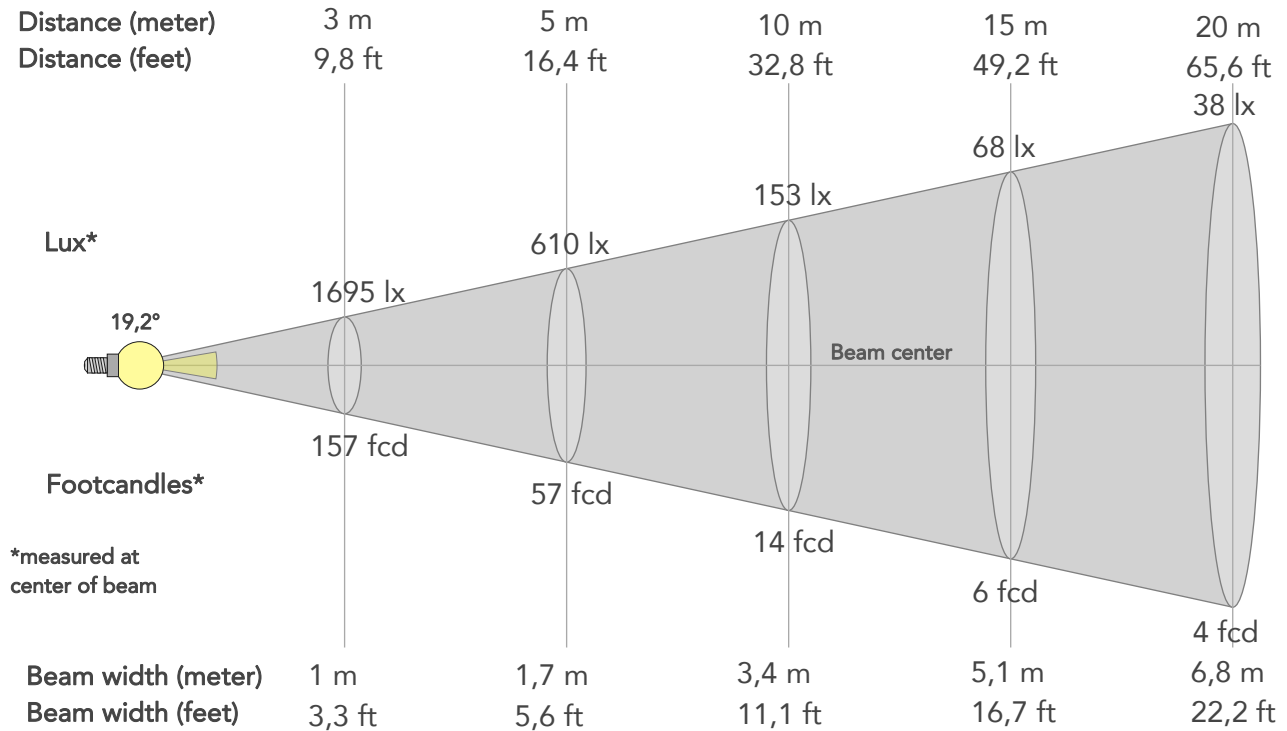
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	97	-1%	0%
2	98	0%	-1%
3	96	-1%	-1%
4	94	-3%	-2%
5	94	-5%	0%
6	96	-1%	2%
7	94	-2%	3%
8	96	1%	3%
9	96	1%	3%
10	96	1%	2%
11	95	3%	2%
12	94	3%	-2%
13	94	0%	-4%
14	93	1%	-5%
15	93	-1%	-2%
16	92	1%	-6%





# BEAM DETAILS

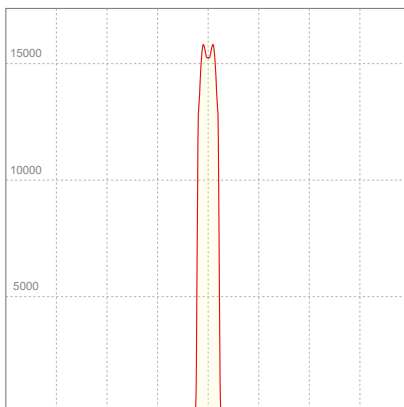
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19,2°	21,1°	23,4°	99,6%	99,4%



## 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	15251lx	3813lx	1695lx	953lx	610lx	271lx	153lx	68lx	38lx	24lx	17lx	10lx	6lx
Footcand.	1417fcd	354fcd	157fcd	89fcd	57fcd	25fcd	14fcd	6fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,7m	1m	1,4m	1,7m	2,5m	3,4m	5,1m	6,8m	8,5m	10,2m	13,6m	17m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,6ft	8,3ft	11,1ft	16,7ft	22,2ft	27,8ft	33,4ft	44,5ft	55,6ft

## LINEAR DISTRIBUTION DIAGRAM



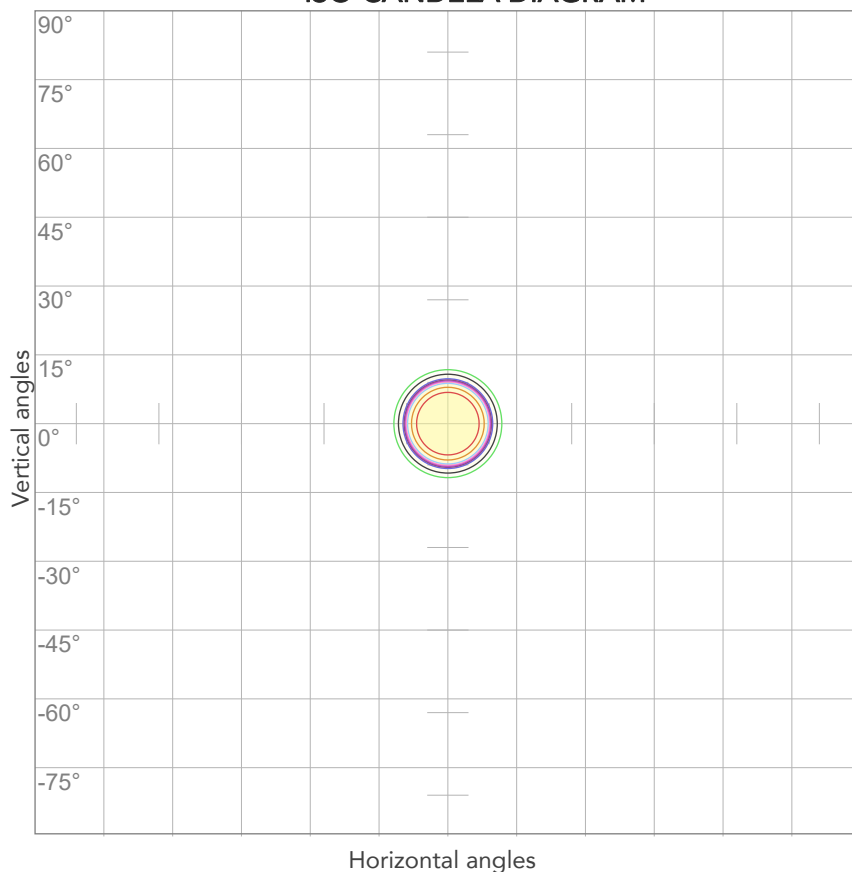
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,155A	33,5W	0,96	40lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



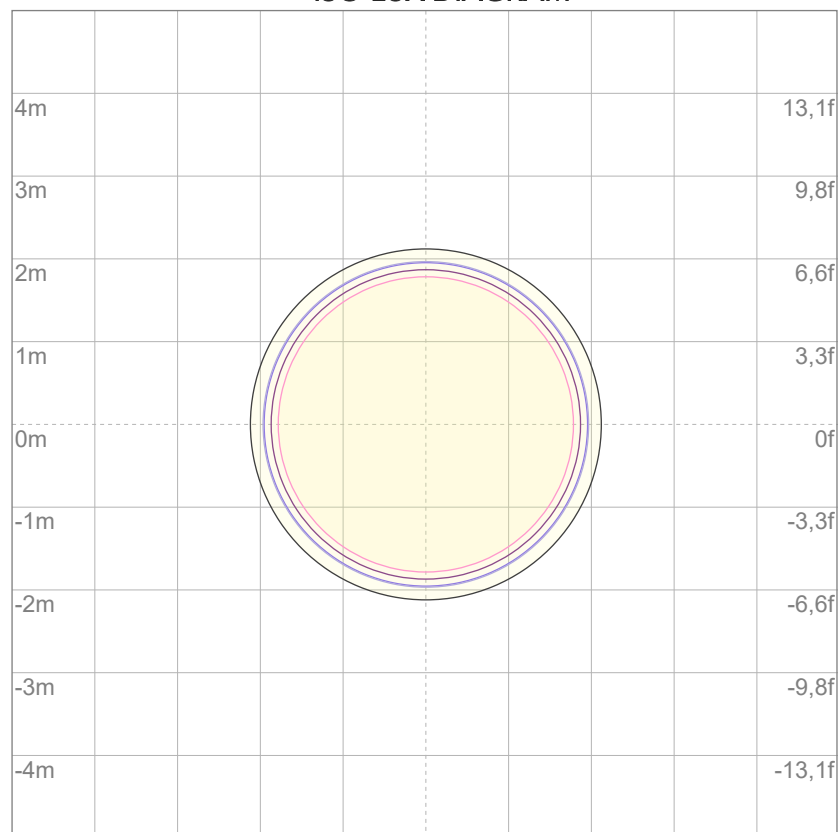
10%	1525 cd
20%	3050 cd
30%	4575 cd
40%	6100 cd
50%	7625 cd
60%	9151 cd
70%	10676 cd
80%	12201 cd

### Conditions:

Number of c-planes: 2

Candela at center: 15251 cd

## ISO LUX DIAGRAM



3%	4,58 lx
5%	7,63 lx
10%	15,3 lx
30%	45,8 lx
50%	76,3 lx

### Conditions:

Number of c-planes: 2

Lux at center: 153 lx

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





Total lumen output:

1332 lm

Peak candela output:

15927 cd

Light quality:

CRI: 98,2

Color temperature:

3009 K

PRODUCT NAME:

ECLDISPLAYCRMX30K

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

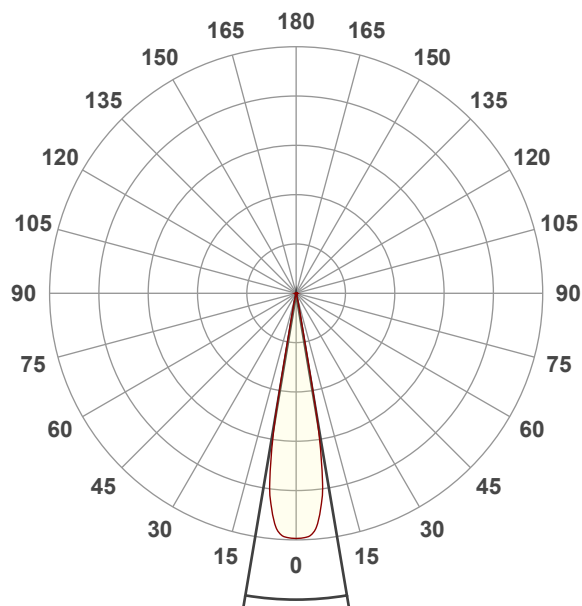
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 10:42:11

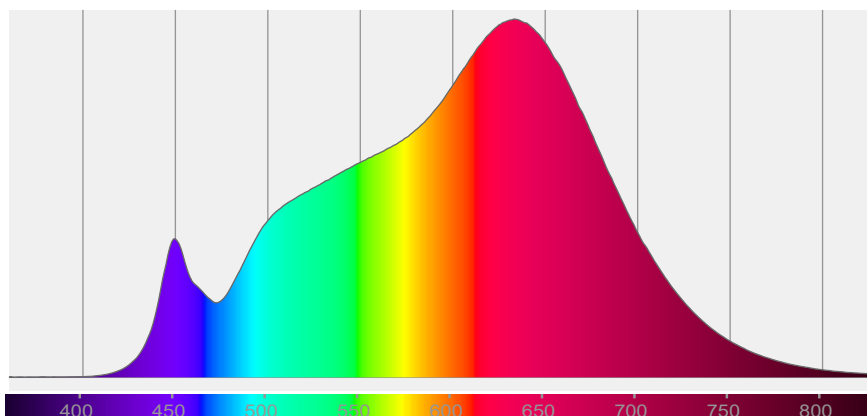


Beam angle 50%: 19,1°

Field angle 10%: 21,8°

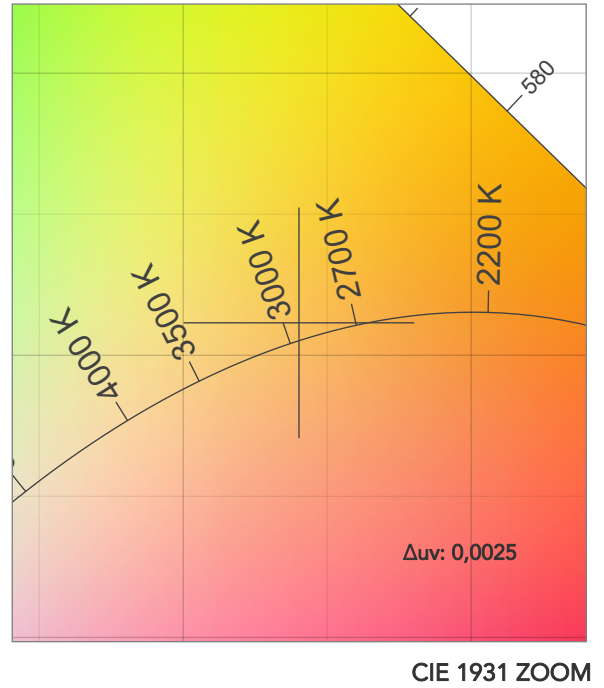
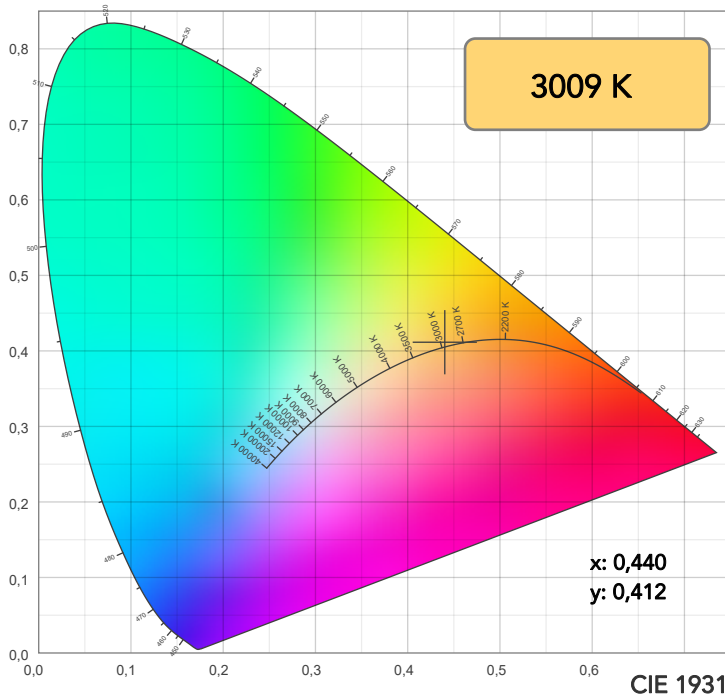
Cut off angle 2.5%: 24,3°

Spectra

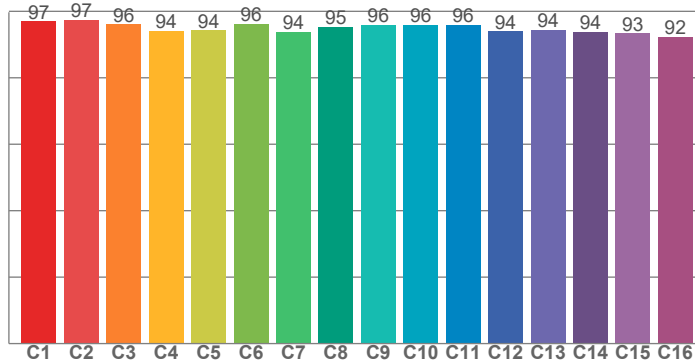




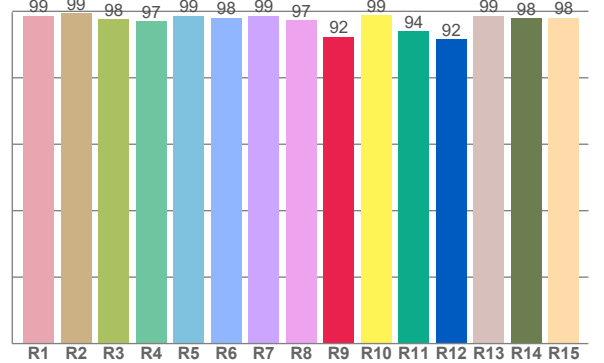
# COLOR DETAILS



TM30: 95,2



CRI: 98,2 (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
98,6	99,4	97,6	97,0	98,7	98,0	98,6	97,3	92,3	98,8	93,9	91,6	98,7	97,9	98,1

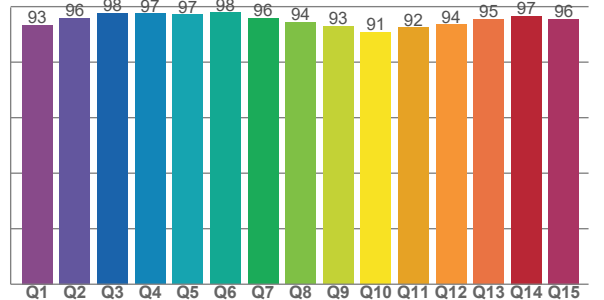
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,4	95,9	97,7	97,5	97,1	97,8	95,8	94,4	92,9	90,9	92,5	93,6	95,4	96,7	95,5

CQS: 94,5



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3009 K	98,2	92,3	95,2	99,4	94,5	98	0,440	0,412	0,0025

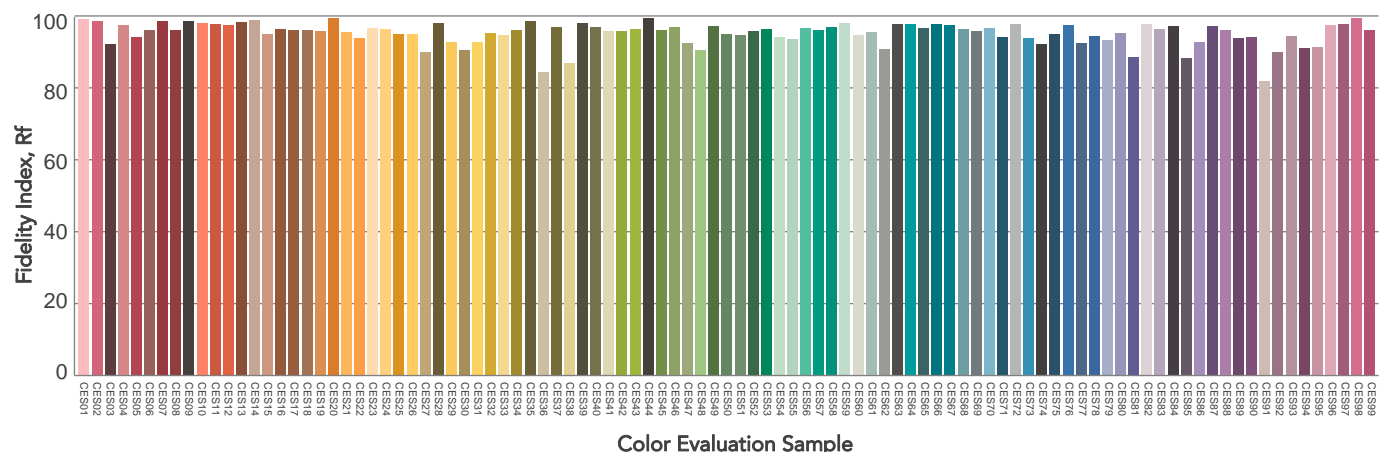
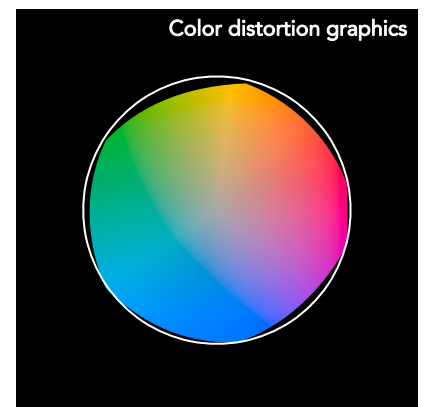
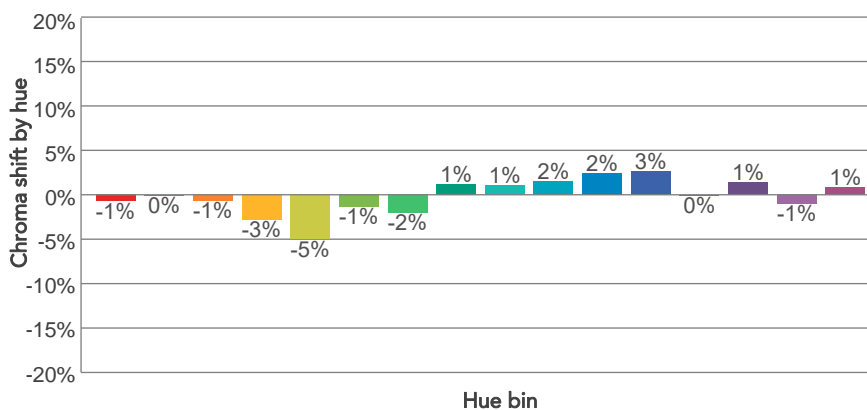
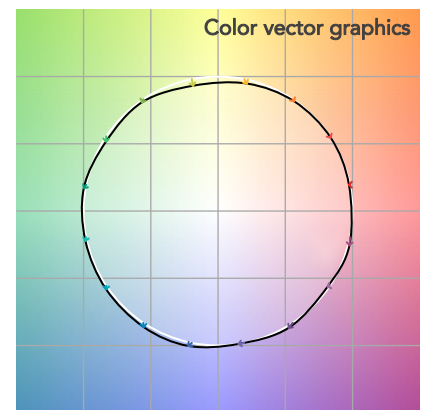
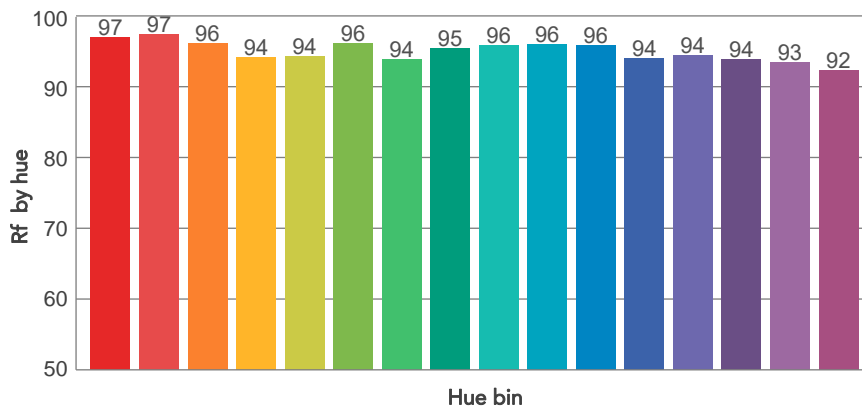
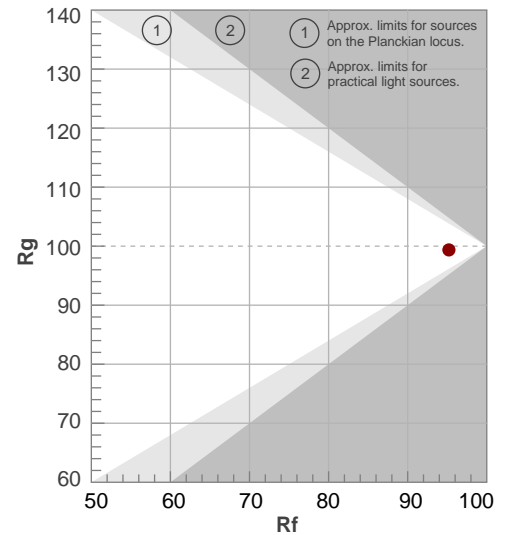


# TM30 DETAILS

**Rf 95,2**  
Fidelity index Rf

**Rg 99,4**  
Gammut index

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

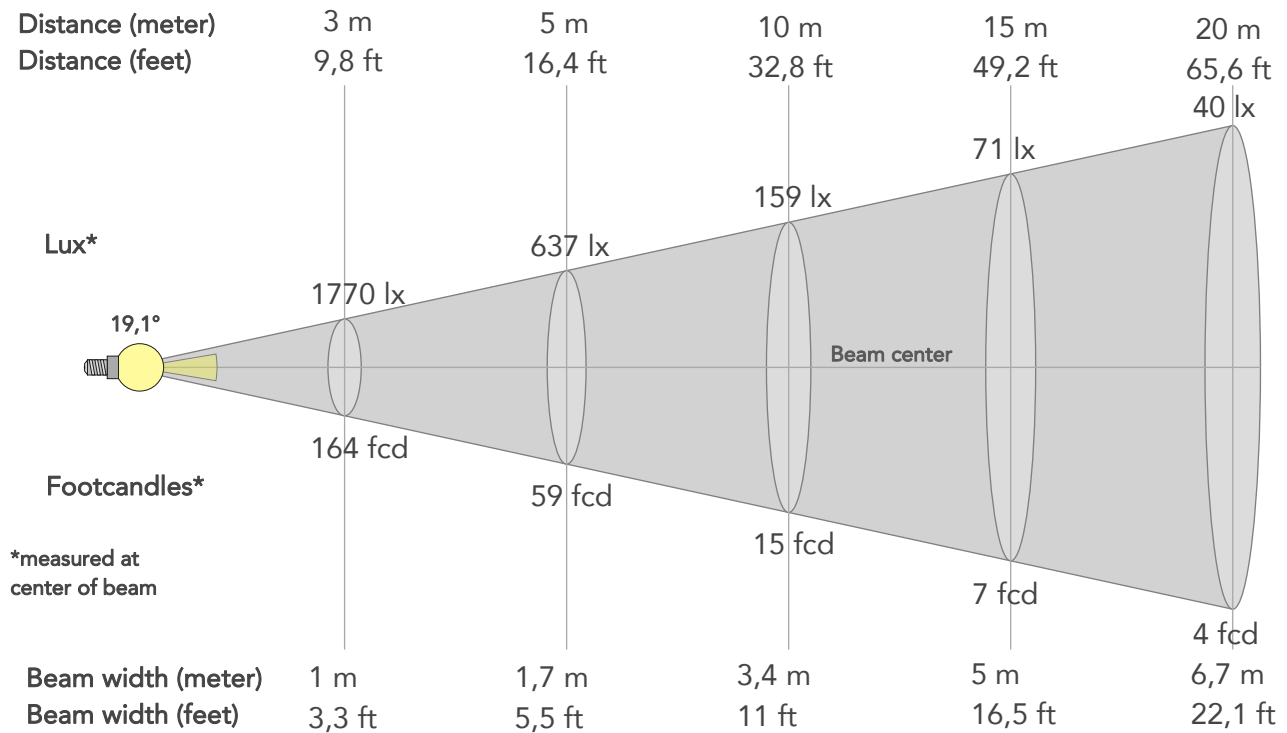




# BEAM DETAILS



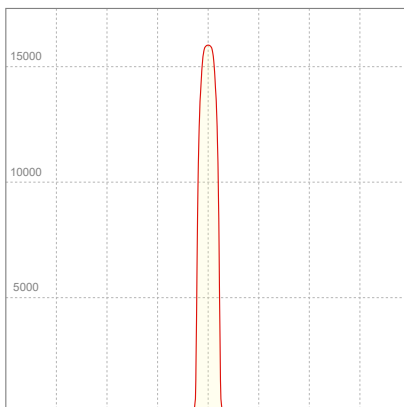
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19,1°	21,8°	24,3°	99,5%	99,4%



## 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	15927lx	3982lx	1770lx	995lx	637lx	283lx	159lx	71lx	40lx	25lx	18lx	10lx	6lx
Footcand.	1480fcd	370fcd	164fcd	92fcd	59fcd	26fcd	15fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,4m	5m	6,7m	8,4m	10,1m	13,4m	16,8m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,3ft	11ft	16,5ft	22,1ft	27,6ft	33,1ft	44,1ft	55,1ft

## LINEAR DISTRIBUTION DIAGRAM



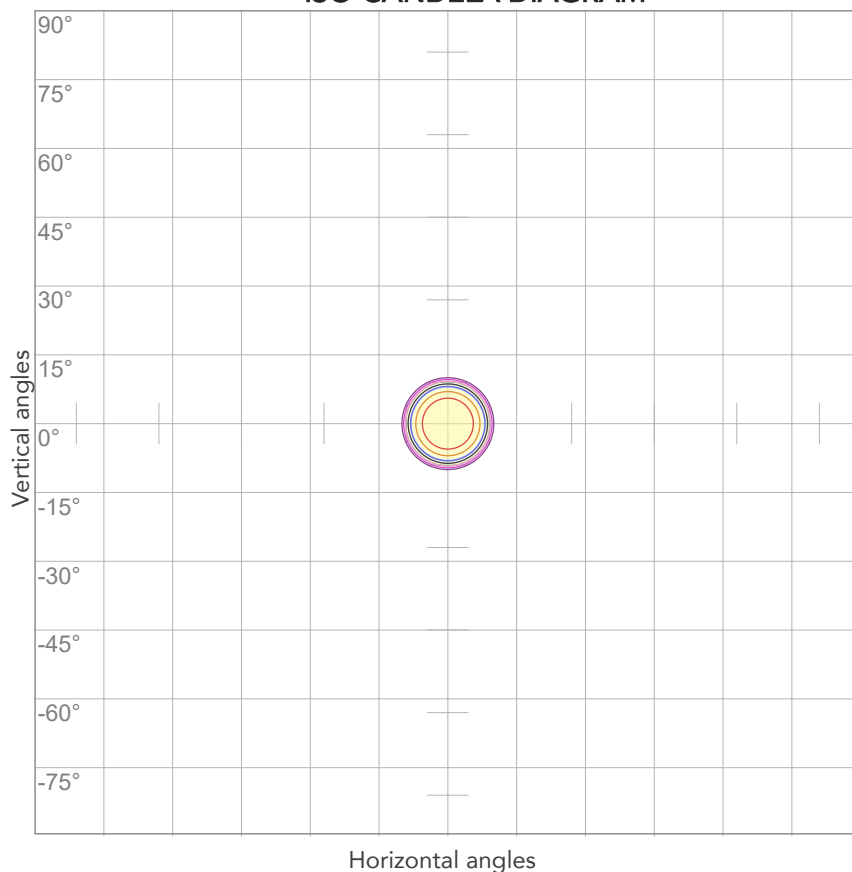
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,156A	33,8W	0,96	39lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



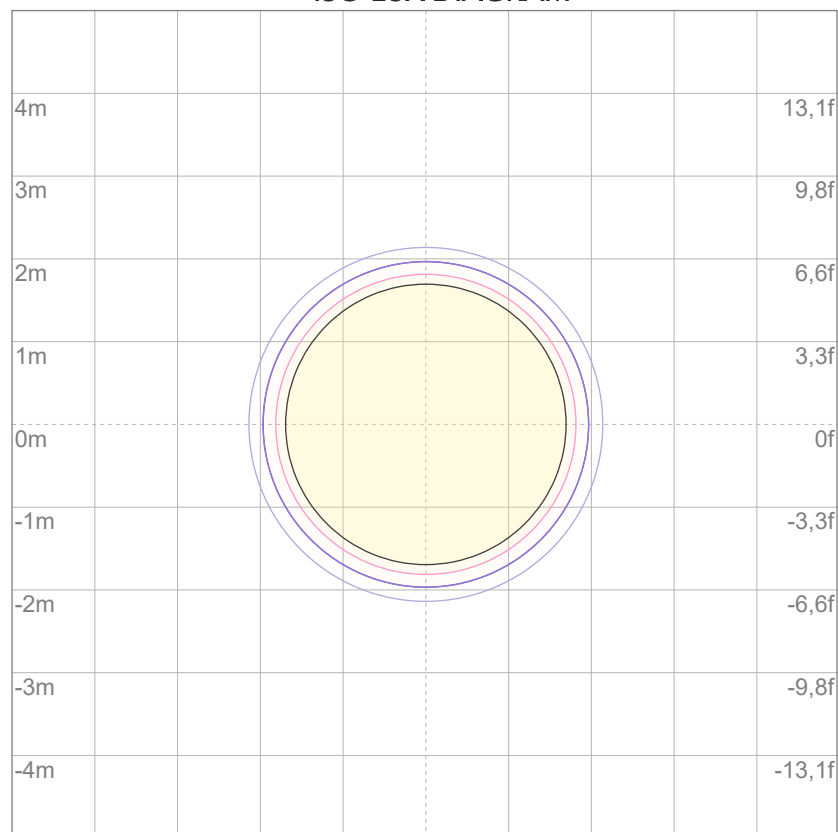
10%	1593 cd
20%	3185 cd
30%	4778 cd
40%	6371 cd
50%	7964 cd
60%	9556 cd
70%	11149 cd
80%	12742 cd

### Conditions:

Number of c-planes: 2

Candela at center: 15927 cd

## ISO LUX DIAGRAM



3%	4,78 lx
5%	7,96 lx
10%	15,9 lx
30%	47,8 lx
50%	79,6 lx

### Conditions:

Number of c-planes: 2

Lux at center: 159 lx

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





Total lumen output:

1309 lm

Peak candela output:

55869 cd

Light quality:

CRI: 98,1

Color temperature:

3017 K

**PRODUCT NAME:**  
ECLDISPLAYCRMX30K

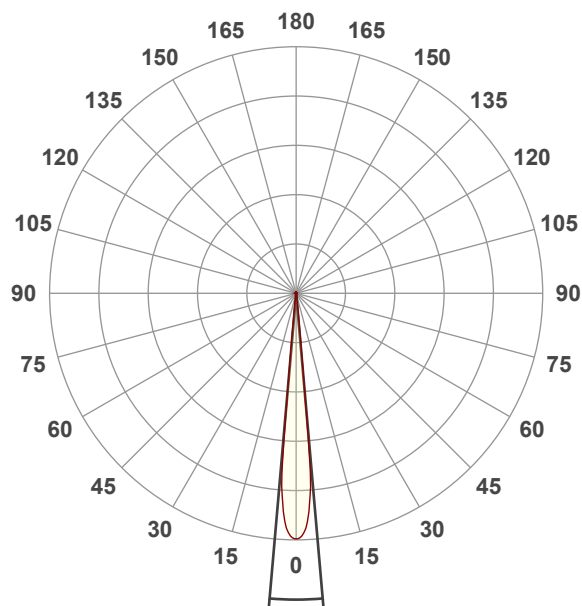
**MEASURAMENT CONDITIONS:**

Beam angle:  
Profile 1020 Min Zoom

Target:  
Full On

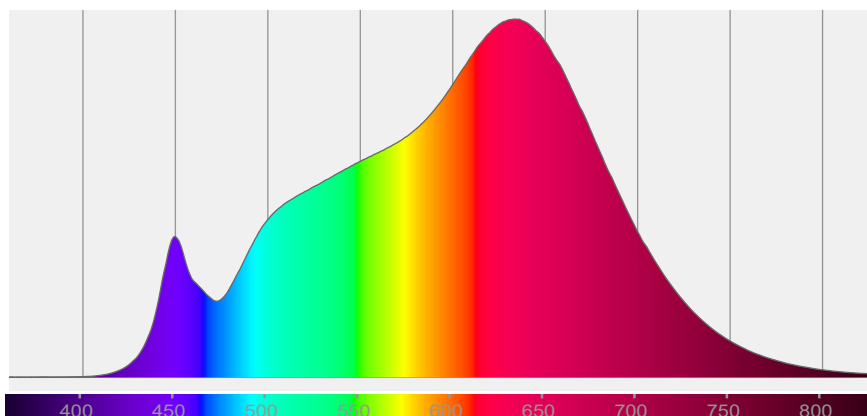
Operator:  
Giacomo Matteo

Date and time:  
18/06/2024 10:44:53



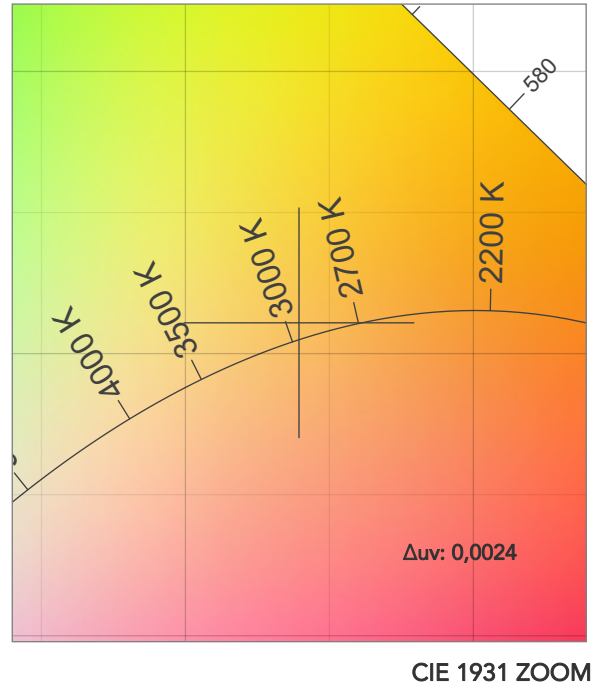
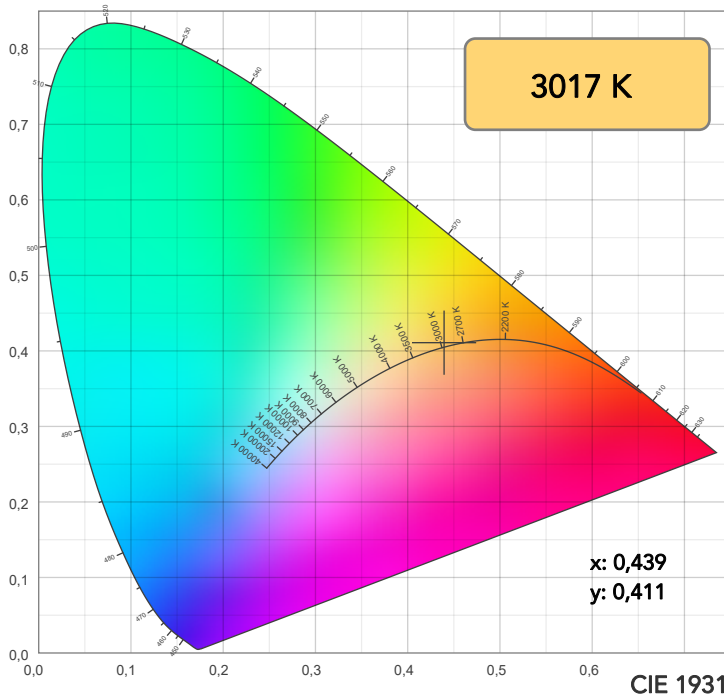
Beam angle 50%: 9,9°  
Field angle 10%: 12°  
Cut off angle 2.5%: 12,9°

**Spectra**

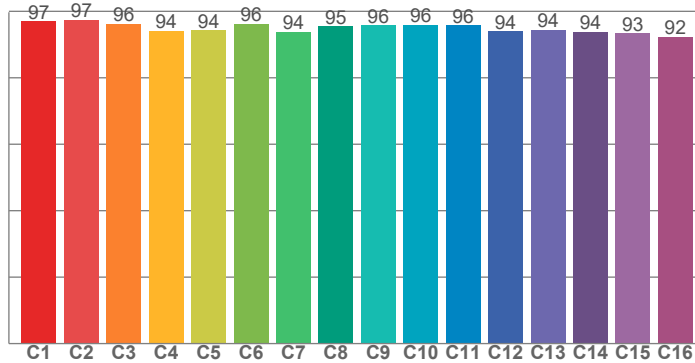




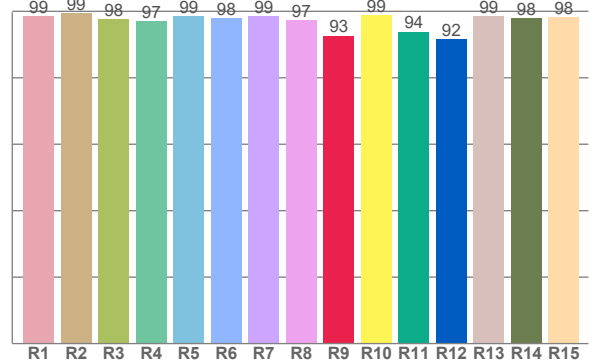
# COLOR DETAILS



TM30: 95,2



CRI: 98,1 (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
98,5	99,4	97,6	97,0	98,6	97,9	98,6	97,4	92,6	98,9	93,9	91,5	98,6	97,9	98,2

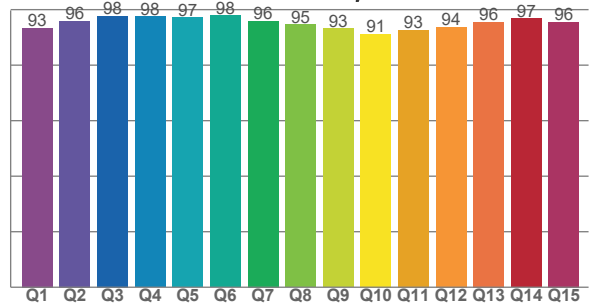
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 94,7



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
3017 K	98,1	92,6	95,2	99,4	94,7	98	0,439	0,411	0,0024



## TM30 DETAILS

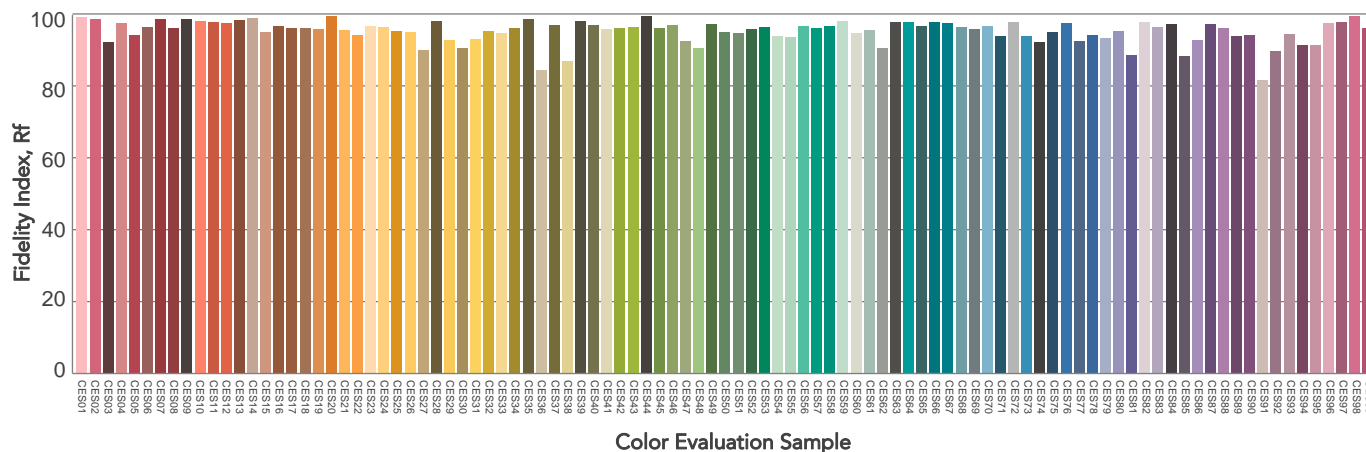
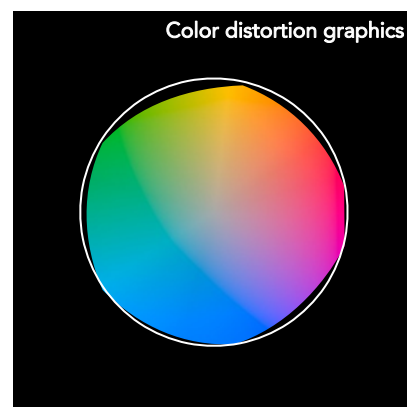
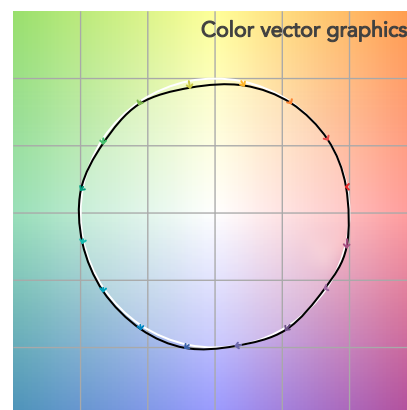
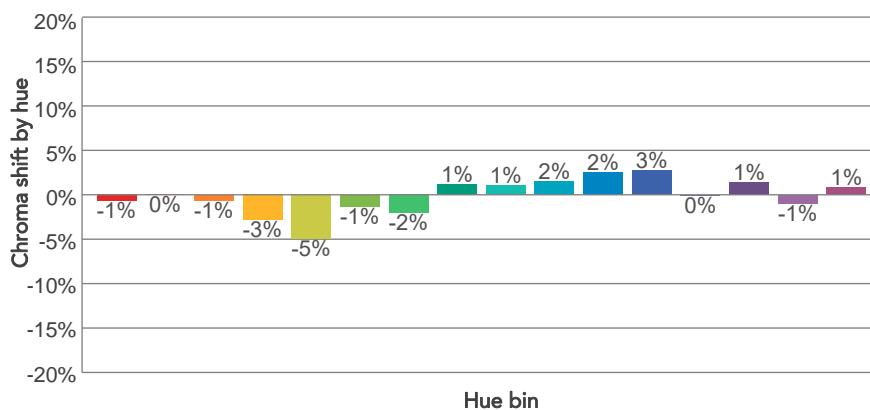
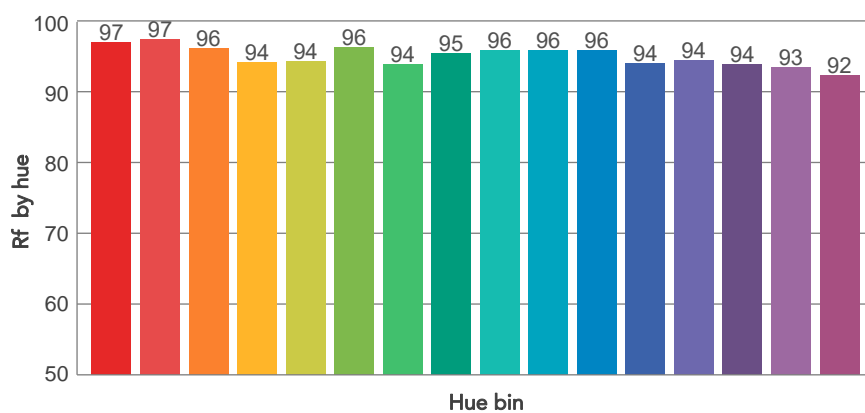
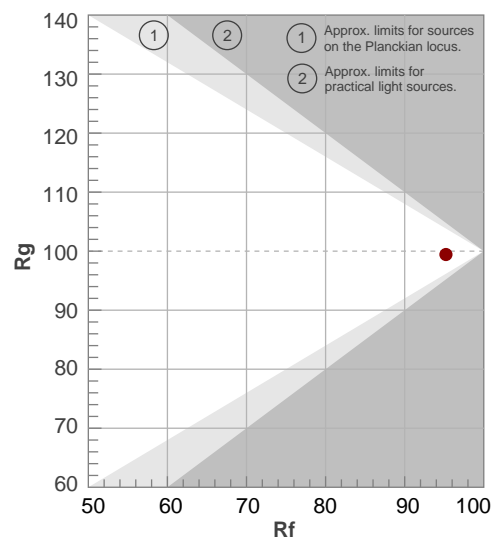
Rf 95,2

Fidelity index  $R_f$

Rg 99,4

## Gammut index

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

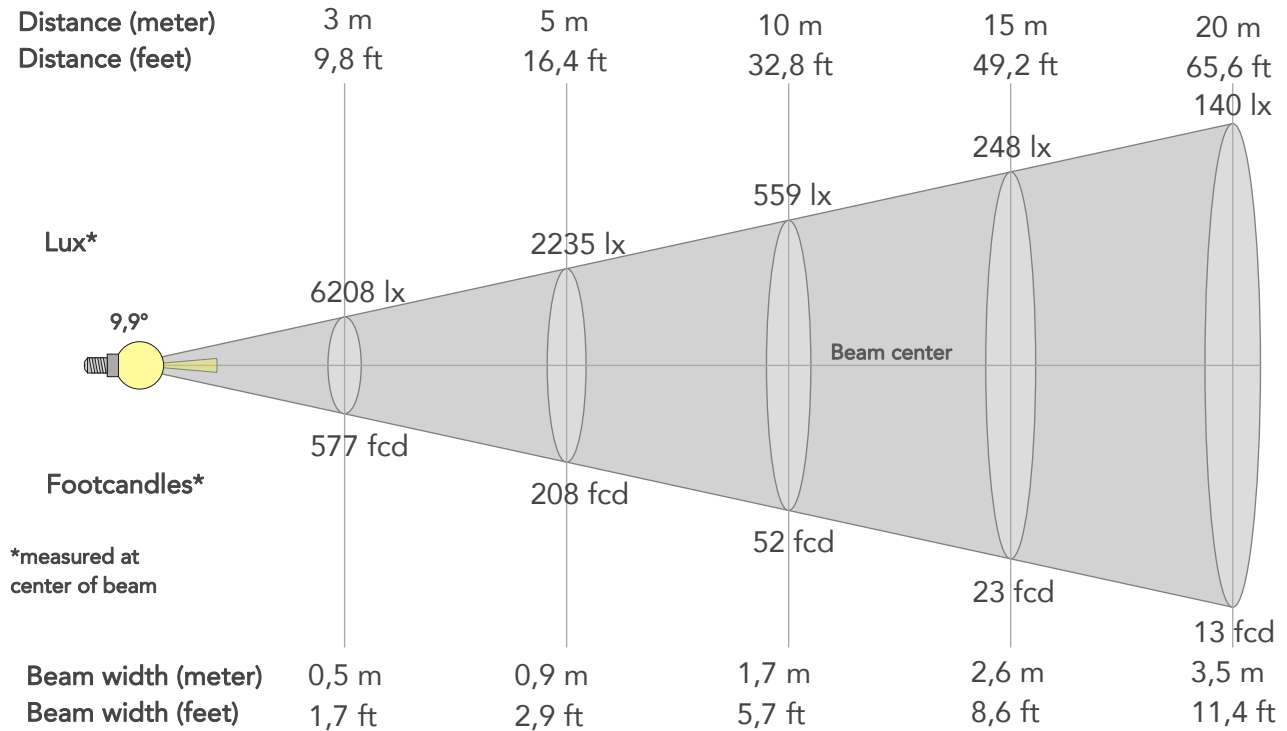




# BEAM DETAILS



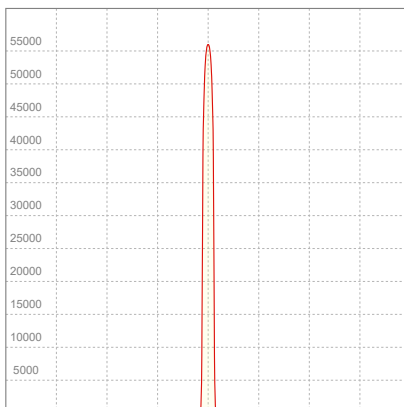
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,9°	12°	12,9°	99,5%	99,3%



## 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	55869lx	13967lx	6208lx	3492lx	2235lx	993lx	559lx	248lx	140lx	89lx	62lx	35lx	22lx
Footcand.	5190fcd	1298fcd	577fcd	324fcd	208fcd	92fcd	52fcd	23fcd	13fcd	8fcd	6fcd	3fcd	2fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,5m	4,3m	5,2m	7m	8,7m
Beam wid.	0,6ft	1,1ft	1,7ft	2,3ft	2,9ft	4,3ft	5,7ft	8,6ft	11,4ft	14,3ft	17,1ft	22,8ft	28,5ft

## LINEAR DISTRIBUTION DIAGRAM



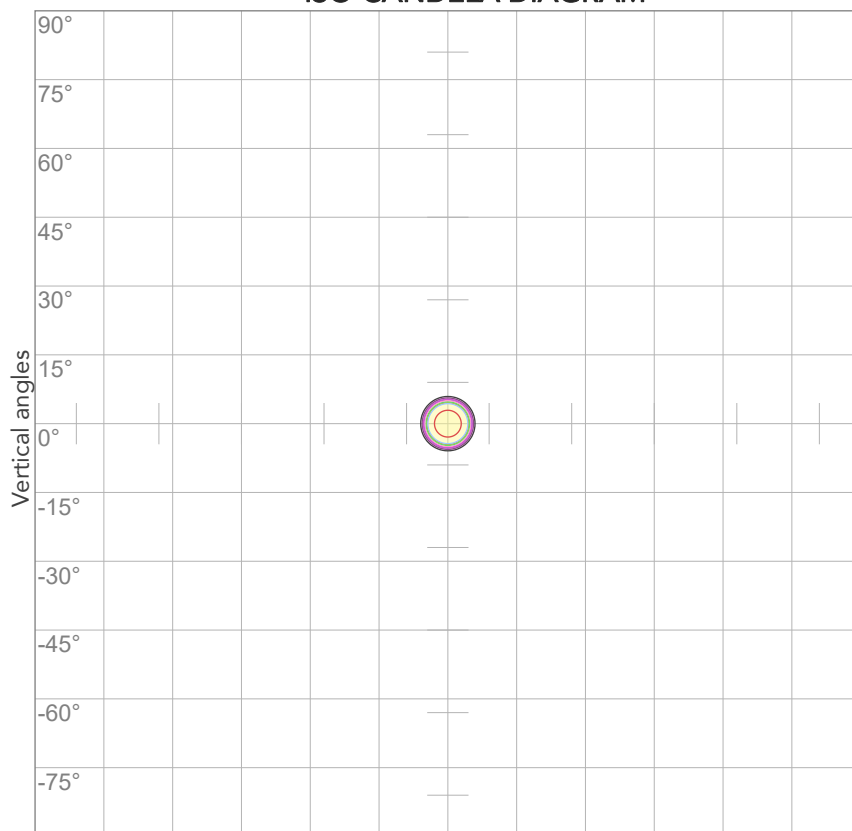
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,156A	33,7W	0,96	39lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



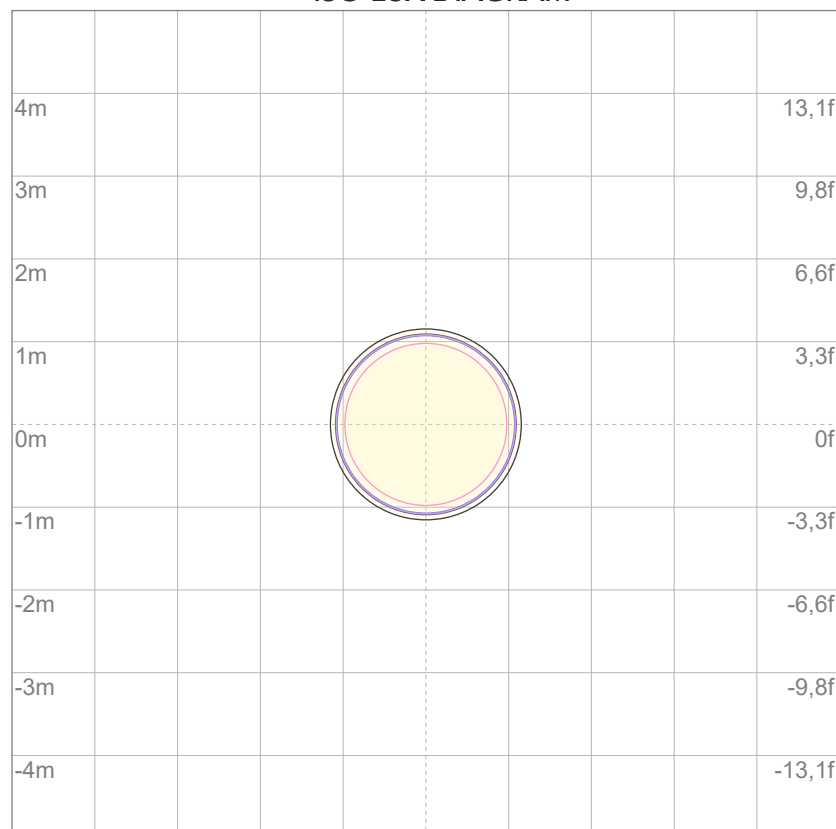
10%	5587 cd
20%	11174 cd
30%	16761 cd
40%	22348 cd
50%	27935 cd
60%	33521 cd
70%	39108 cd
80%	44695 cd

### Conditions:

Number of c-planes: 2

Candela at center: 55869 cd

## ISO LUX DIAGRAM



3%	16,8 lx
5%	27,9 lx
10%	55,9 lx
30%	168 lx
50%	279 lx

### Conditions:

Number of c-planes: 2

Lux at center: 559 lx

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





Total lumen output:

1119 lm

Peak candela output:

4115 cd

Light quality:

CRI: 98,2

Color temperature:

3114 K

**PRODUCT NAME:**

ECLDISPLAYCRMX30K

**MEASURAMENT CONDITIONS:**

Beam angle:

Profile 2040 HD Max Zoom

Target:

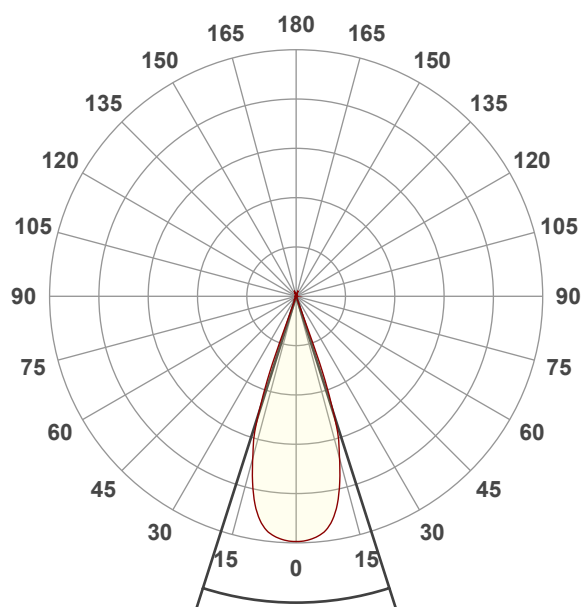
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 10:49:59

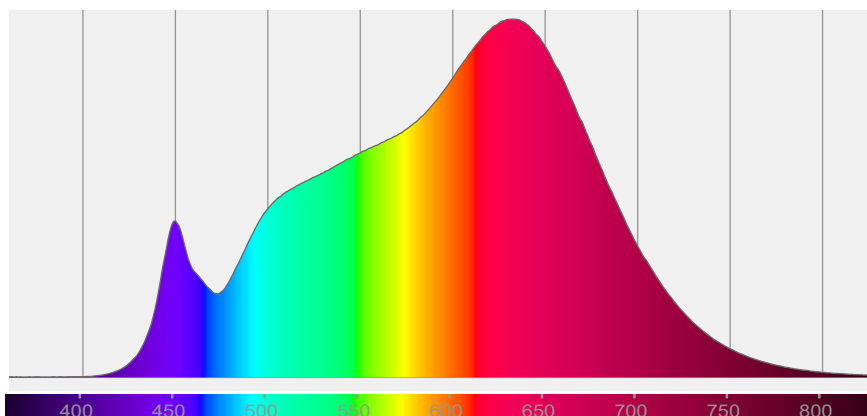


Beam angle 50%: 35,4°

Field angle 10%: 41,2°

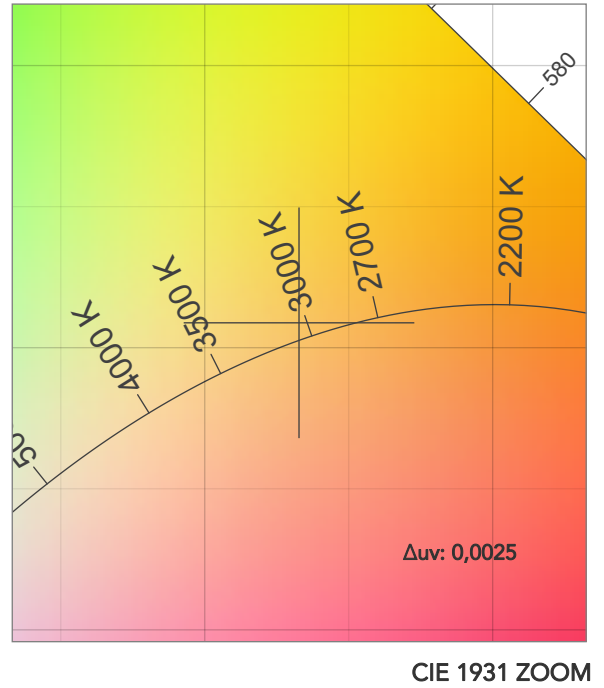
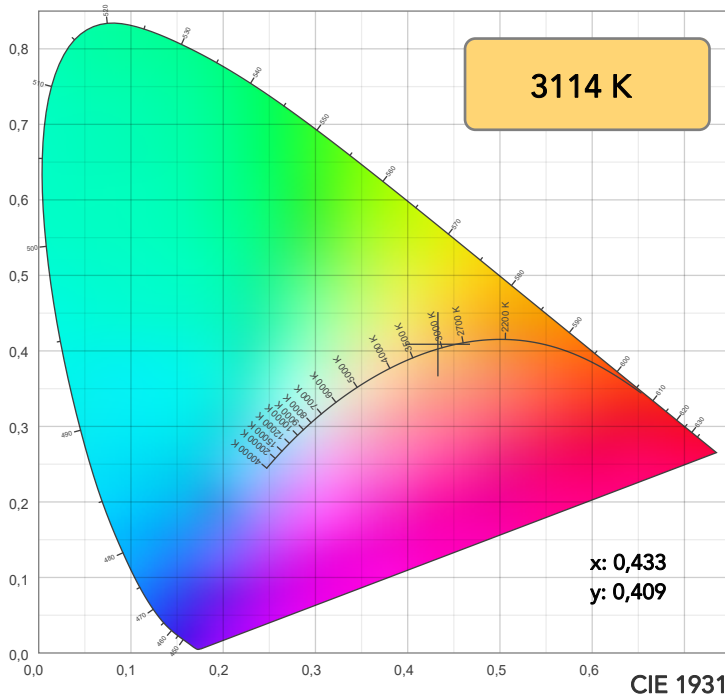
Cut off angle 2.5%: 42,2°

**Spectra**

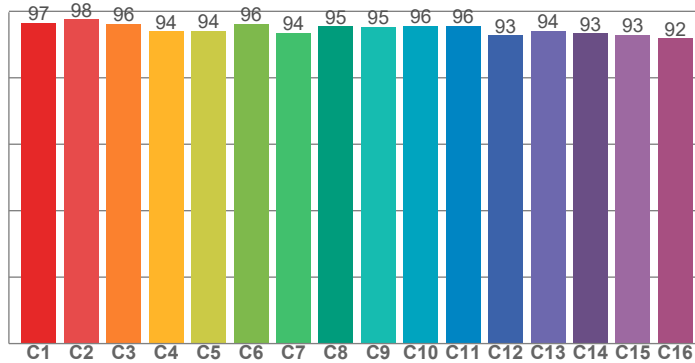




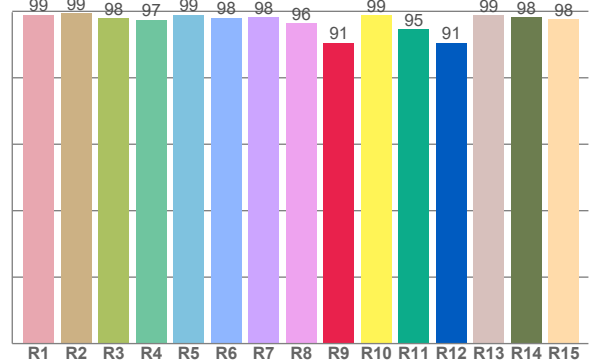
## COLOR DETAILS



TM30: 95,0



CRI: 98,2 (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
99,0	99,4	97,9	97,5	99,0	98,0	98,2	96,4	90,5	98,8	94,5	90,5	98,9	98,1	97,6

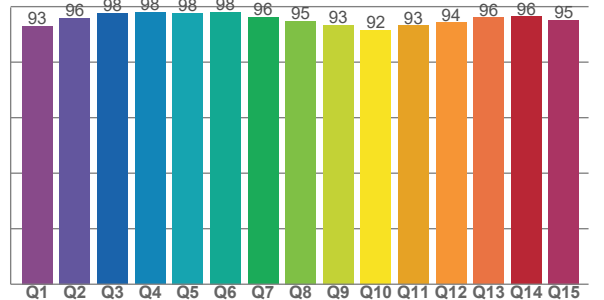
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,6	97,6	96,2	94,0	94,1	96,2	93,6	95,4	95,3	95,6	95,6	92,8	94,1	93,3	92,9	91,8

CQS Q values

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

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	$\Delta uv$
3114 K	98,2	90,5	95,0	99,3	94,9	98	0,433	0,409	0,0025



## TM30 DETAILS

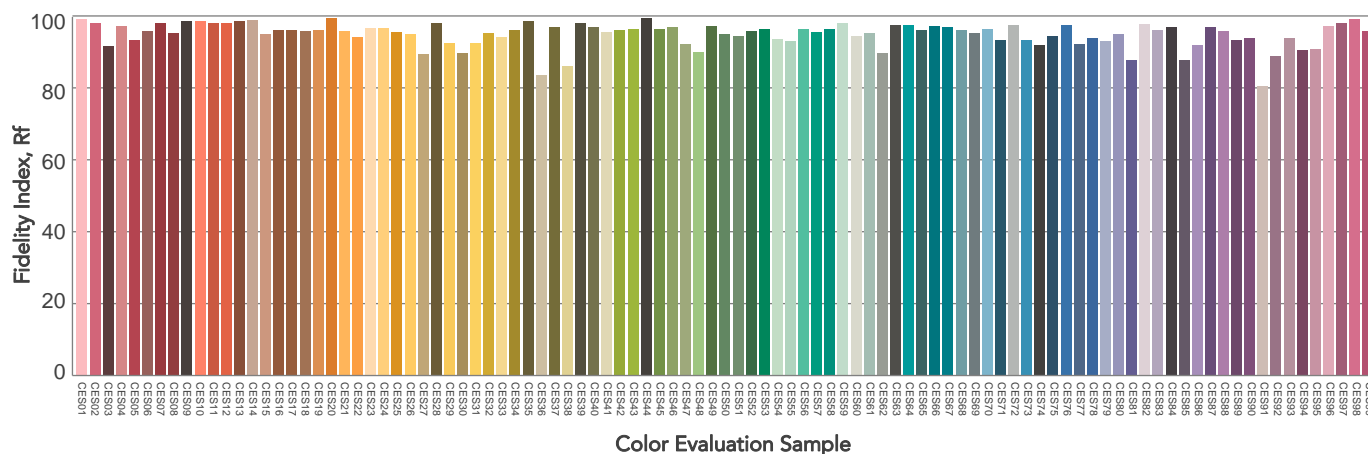
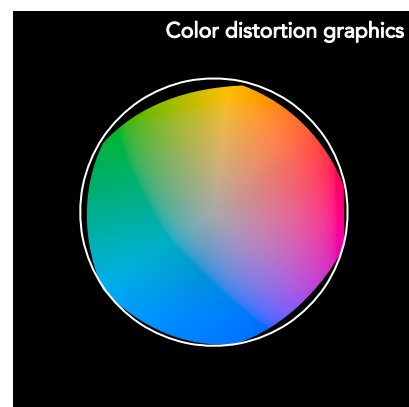
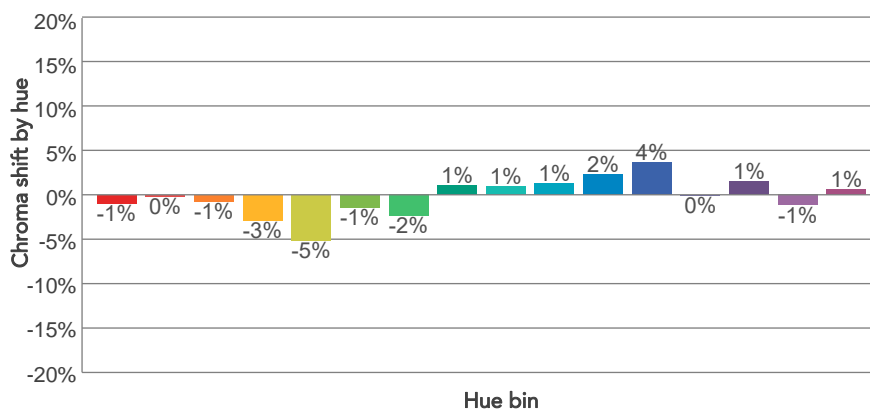
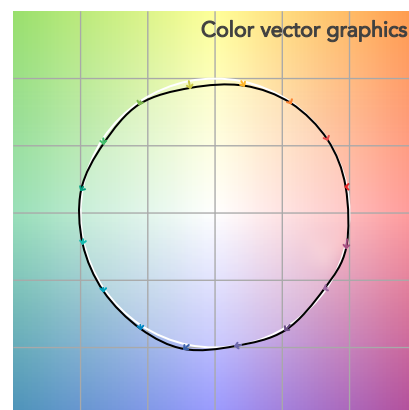
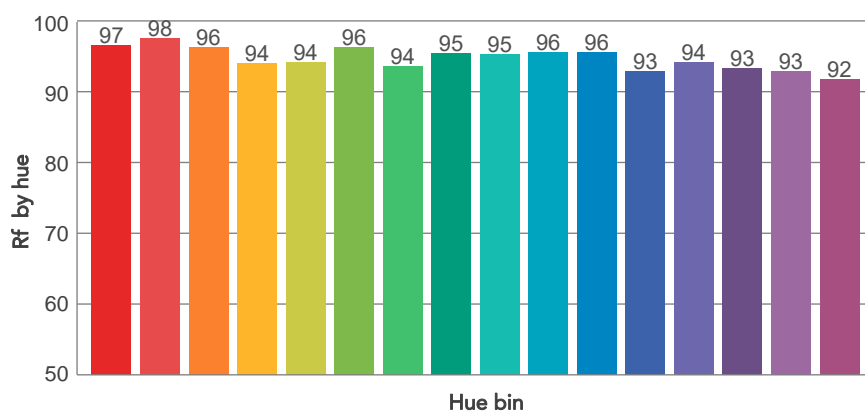
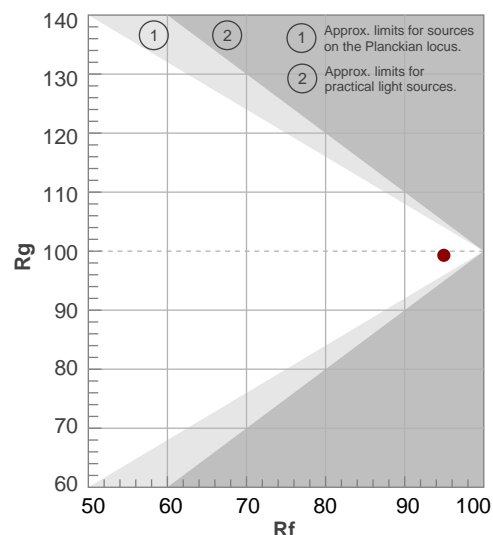
**Rf 95,0**

Fidelity index Rf

**Rg 99,3**

Gammut index

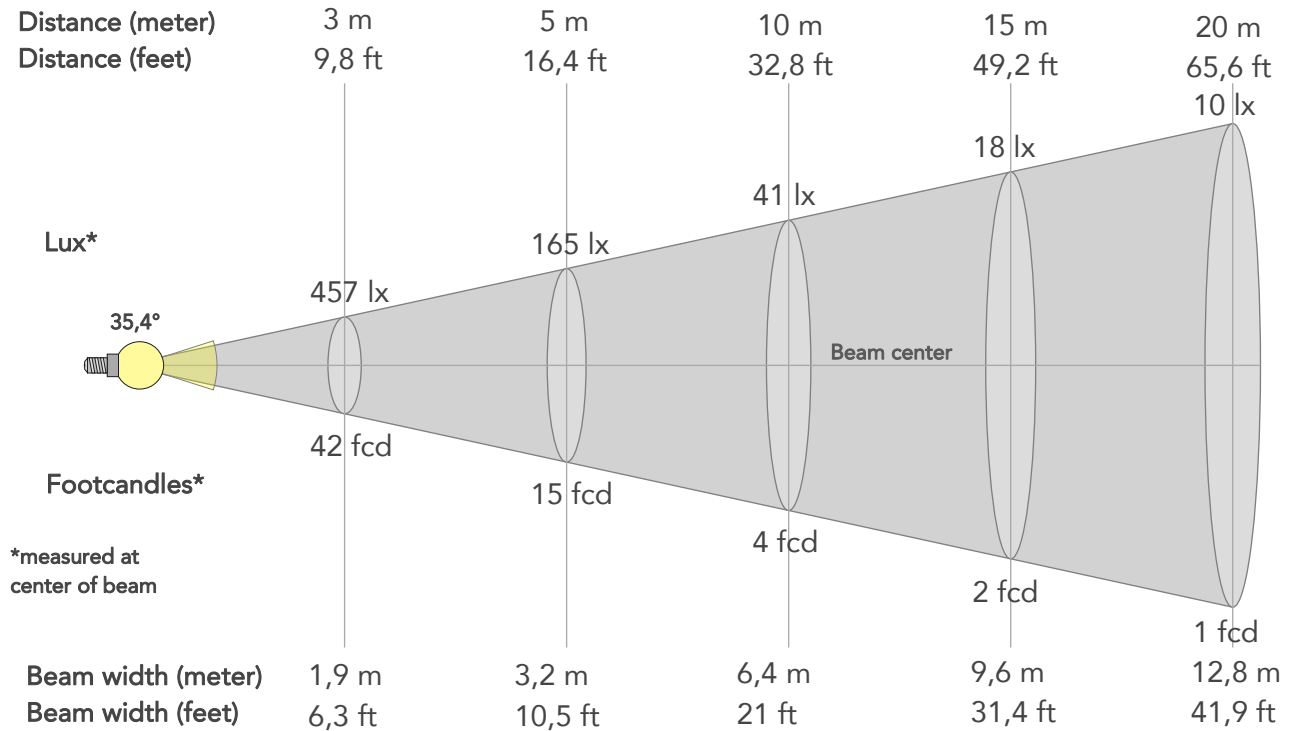
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	97	-1%	0%
2	98	0%	-1%
3	96	-1%	-2%
4	94	-3%	-3%
5	94	-5%	0%
6	96	-1%	2%
7	94	-2%	3%
8	95	1%	3%
9	95	1%	3%
10	96	1%	2%
11	96	2%	2%
12	93	4%	-3%
13	94	0%	-5%
14	93	1%	-5%
15	93	-1%	-2%
16	92	1%	-6%





# BEAM DETAILS

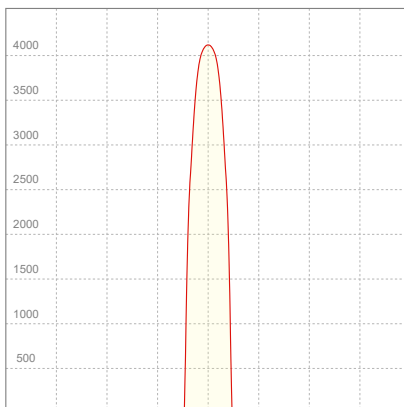
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
35,4°	41,2°	42,2°	99,7%	99,6%



## 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	4115lx	1029lx	457lx	257lx	165lx	73lx	41lx	18lx	10lx	7lx	5lx	3lx	2lx
Footcand.	382fcd	96fcd	42fcd	24fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,3m	1,9m	2,6m	3,2m	4,8m	6,4m	9,6m	12,8m	16m	19,2m	25,6m	31,9m
Beam wid.	2,1ft	4,2ft	6,3ft	8,4ft	10,5ft	15,7ft	21ft	31,4ft	41,9ft	52,4ft	62,9ft	83,8ft	104,8ft

## LINEAR DISTRIBUTION DIAGRAM



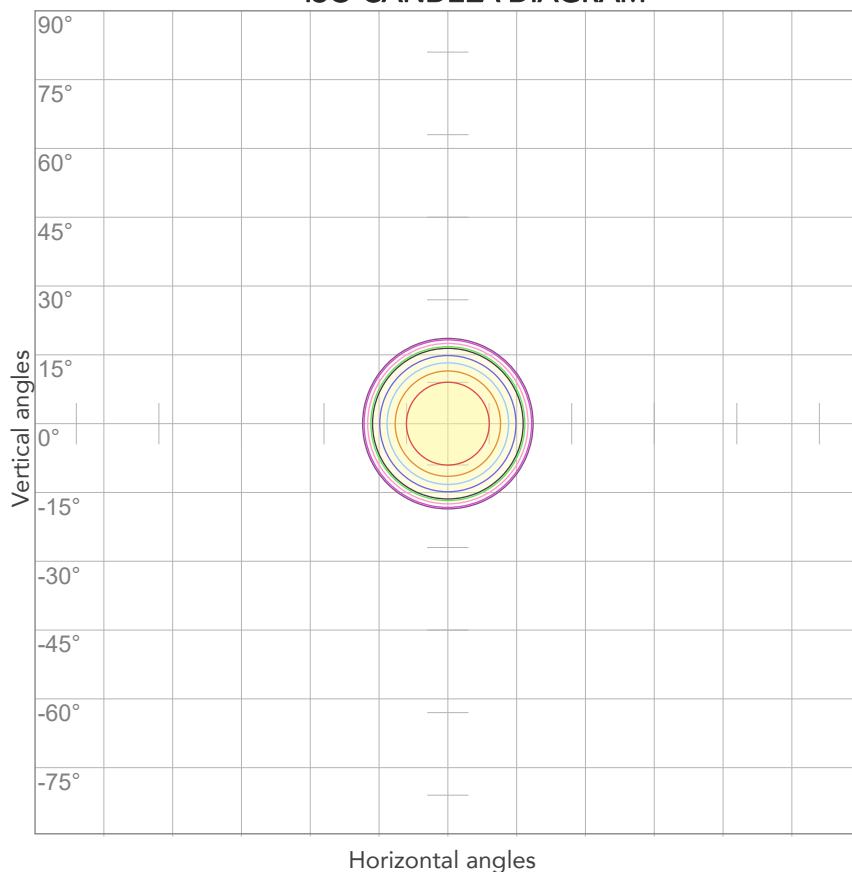
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,156A	33,7W	0,96	33lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



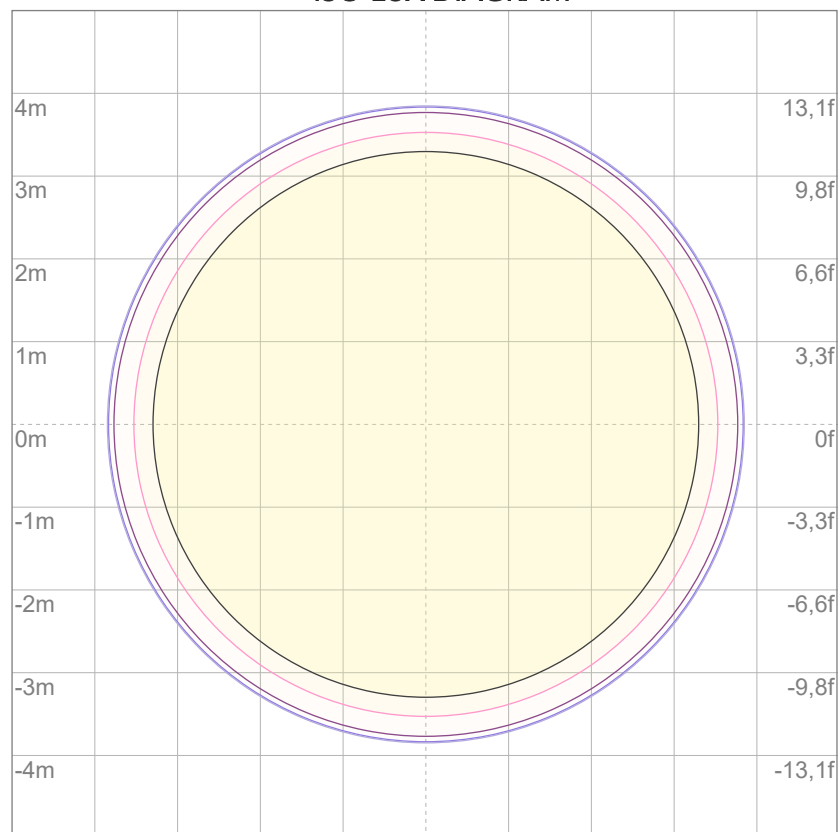
10%	412 cd
20%	823 cd
30%	1235 cd
40%	1646 cd
50%	2058 cd
60%	2469 cd
70%	2881 cd
80%	3292 cd

### Conditions:

Number of c-planes: 2

Candela at center: 4115 cd

## ISO LUX DIAGRAM



3%	1,23 lx
5%	2,06 lx
10%	4,12 lx
30%	12,3 lx
50%	20,6 lx

### Conditions:

Number of c-planes: 2

Lux at center: 41,2 lx

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





Total lumen output:

1127 lm

Peak candela output:

15105 cd

Light quality:

CRI: 98,0

Color temperature:

3103 K

PRODUCT NAME:

ECLDISPLAYCRMX30K

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 HD Min Zoom

Target:

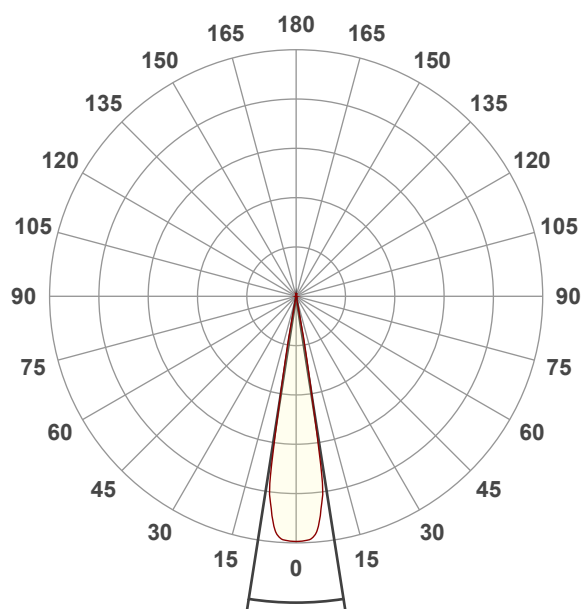
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 10:52:24

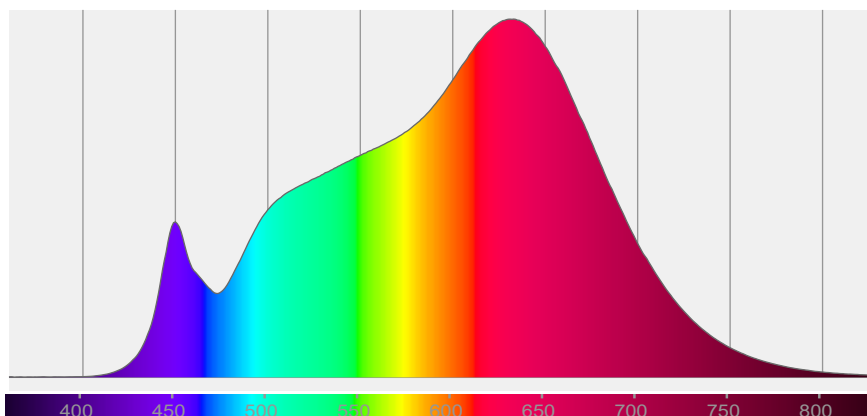


Beam angle 50%: 17,8°

Field angle 10%: 21,2°

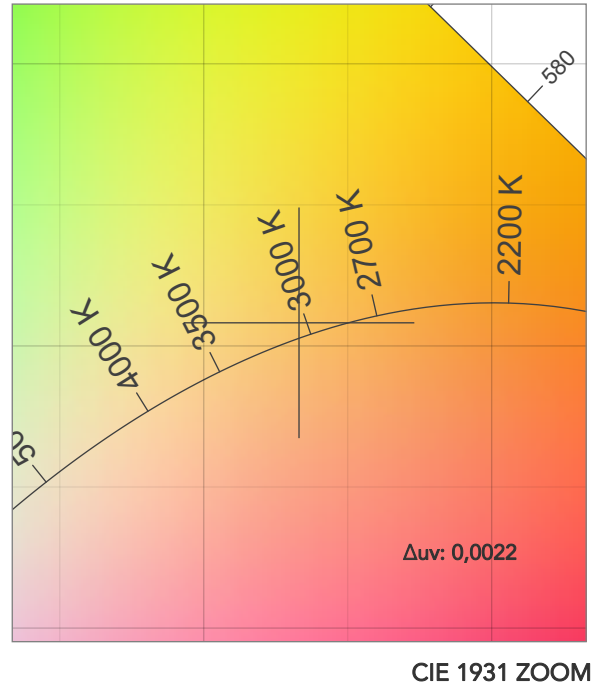
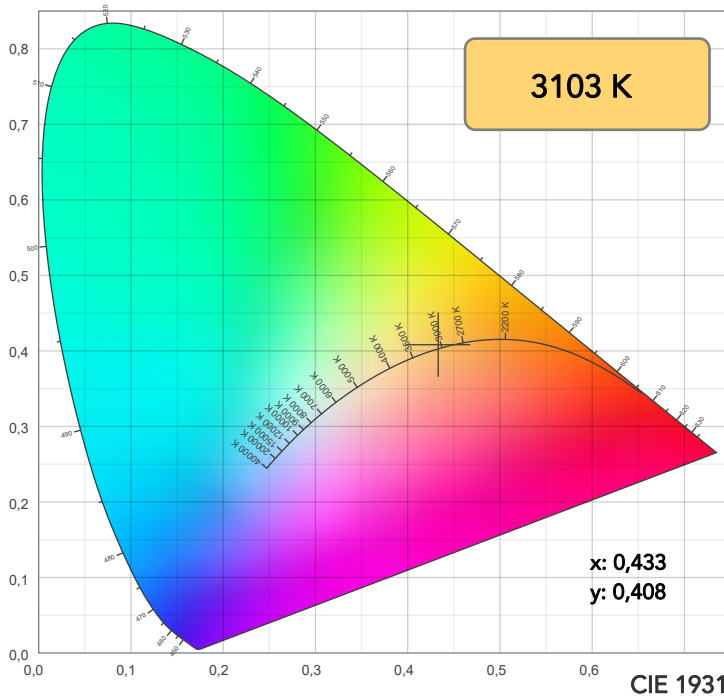
Cut off angle 2.5%: 22,2°

Spectra

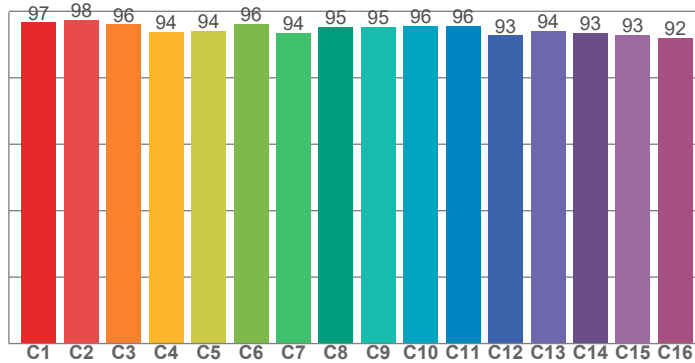




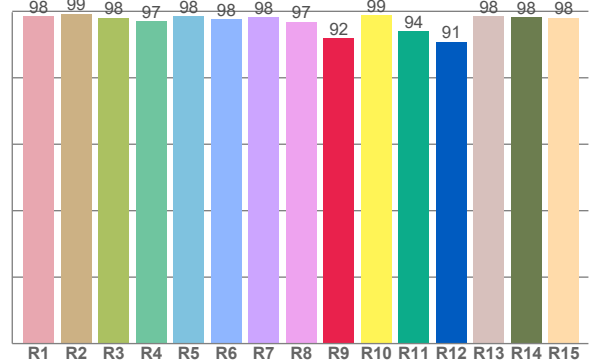
# COLOR DETAILS



TM30: 95,0



CRI: 98,0 (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
98,5	99,3	98,1	97,1	98,5	97,5	98,3	96,9	92,0	98,8	93,9	90,9	98,5	98,2	98,1

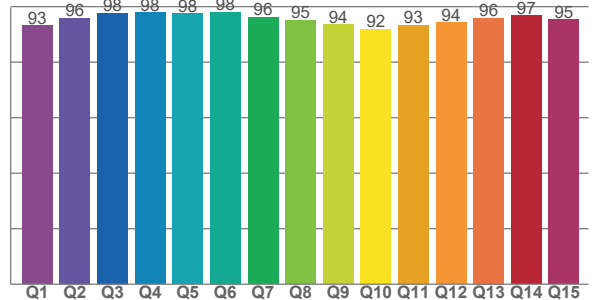
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,7	97,5	96,1	93,9	94,1	96,3	93,5	95,4	95,3	95,6	95,6	92,7	94,1	93,4	93,0	91,9

CQS Q values

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

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	$\Delta uv$
3103 K	98,0	92,0	95,0	99,5	95,0	98	0,433	0,408	0,0022

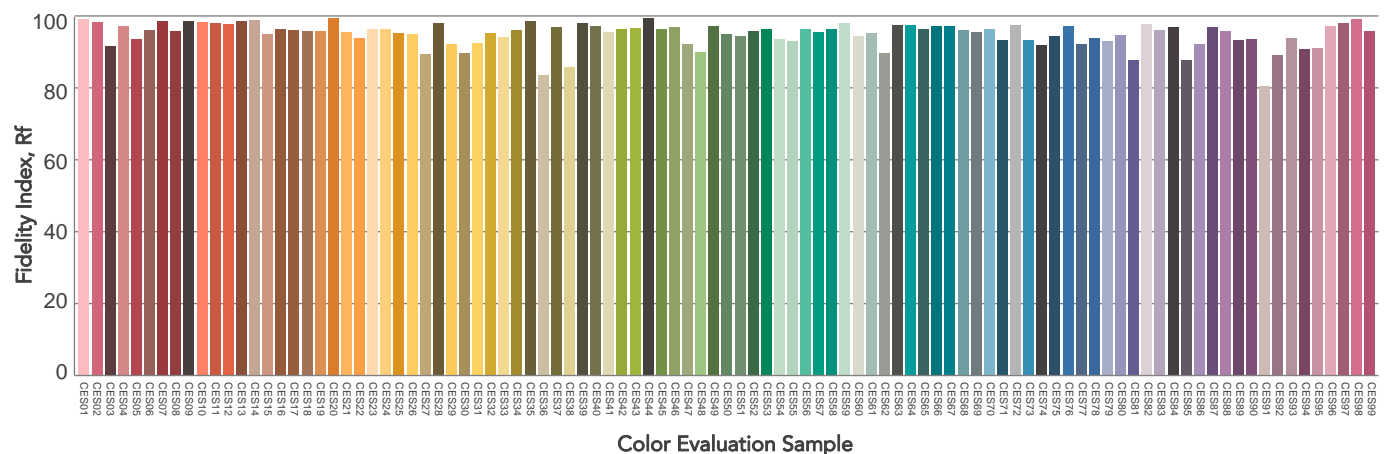
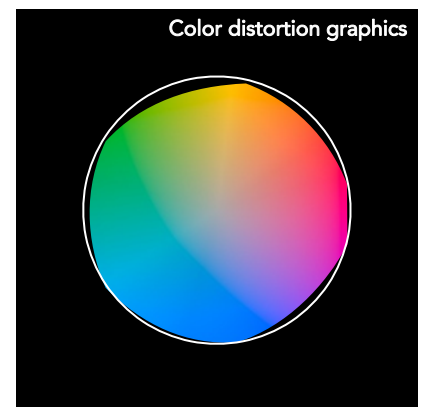
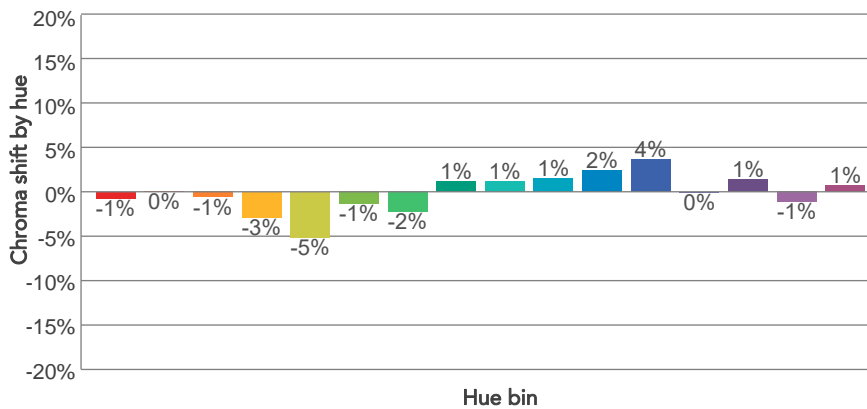
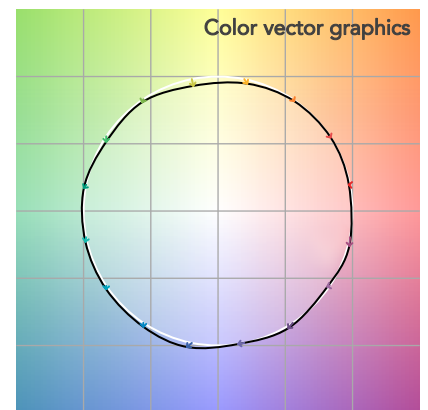
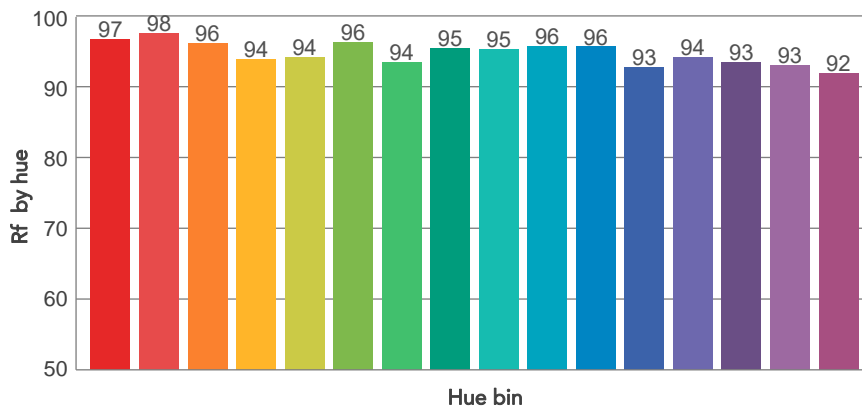
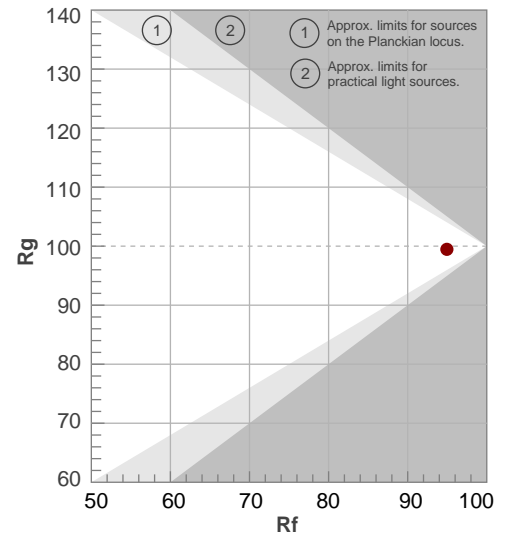


# TM30 DETAILS

**Rf 95,0**  
Fidelity index Rf

**Rg 99,5**  
Gammut index

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

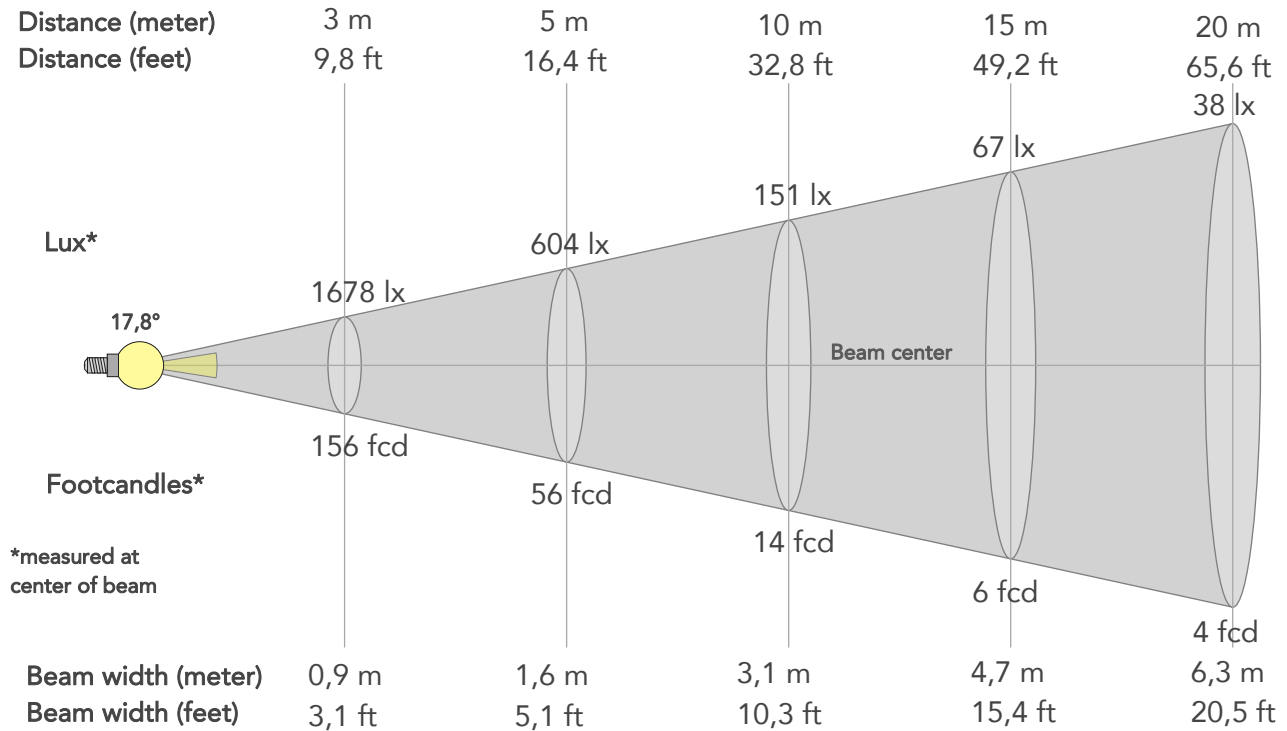




# BEAM DETAILS



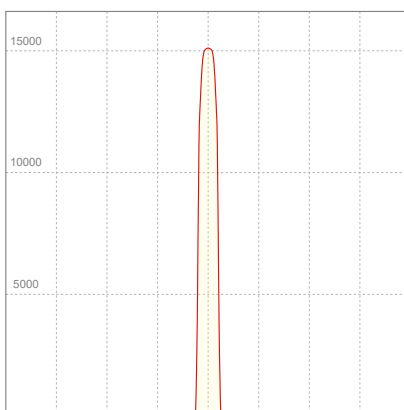
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,8°	21,2°	22,2°	99,6%	99,5%



## 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	15105lx	3776lx	1678lx	944lx	604lx	269lx	151lx	67lx	38lx	24lx	17lx	9lx	6lx
Footcand.	1403fcd	351fcd	156fcd	88fcd	56fcd	25fcd	14fcd	6fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,6m	0,9m	1,3m	1,6m	2,3m	3,1m	4,7m	6,3m	7,8m	9,4m	12,5m	15,7m
Beam wid.	1ft	2,1ft	3,1ft	4,1ft	5,1ft	7,7ft	10,3ft	15,4ft	20,5ft	25,7ft	30,8ft	41,1ft	51,4ft

## LINEAR DISTRIBUTION DIAGRAM



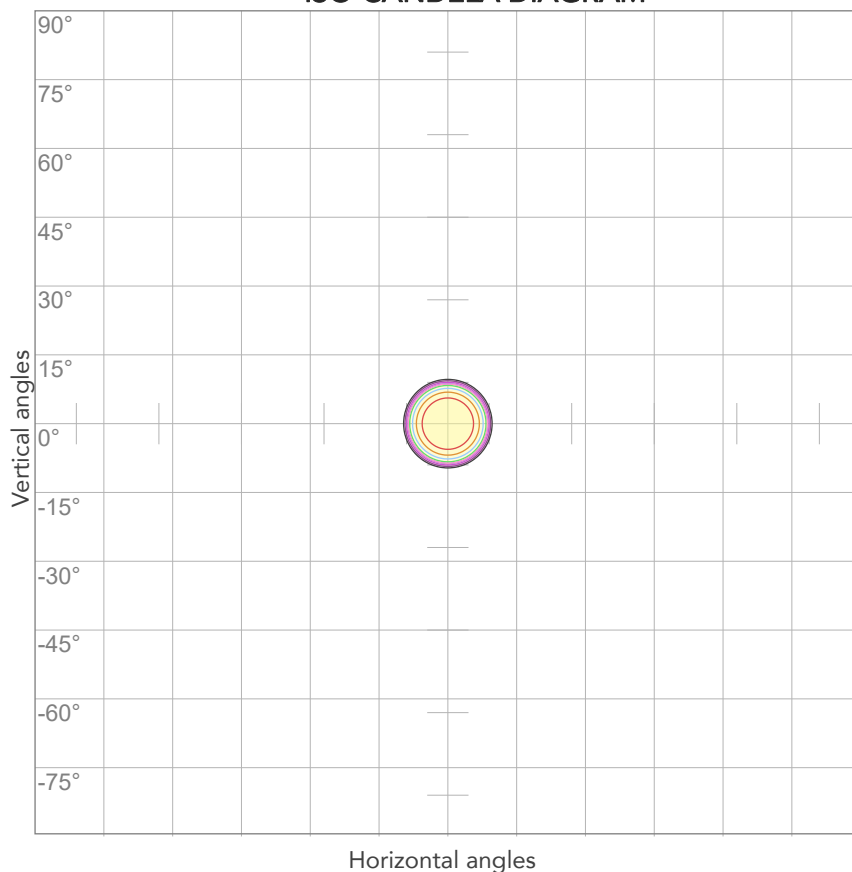
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,156A	33,6W	0,96	34lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



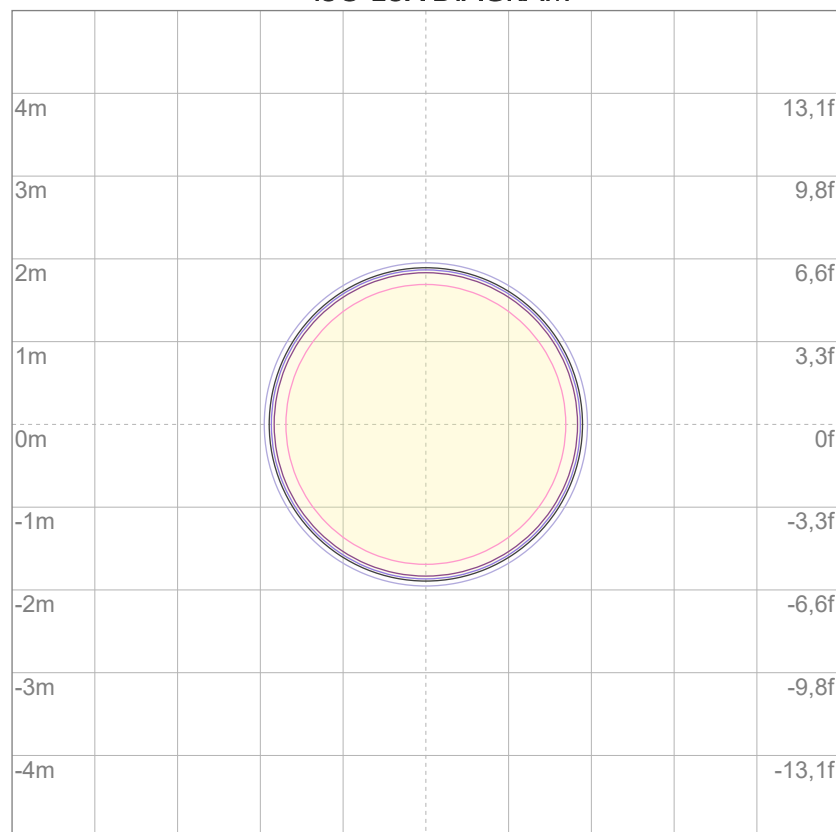
10%	1510 cd
20%	3021 cd
30%	4531 cd
40%	6042 cd
50%	7552 cd
60%	9063 cd
70%	10573 cd
80%	12084 cd

### Conditions:

Number of c-planes: 2

Candela at center: 15105 cd

## ISO LUX DIAGRAM



3%	4,53 lx
5%	7,55 lx
10%	15,1 lx
30%	45,3 lx
50%	75,5 lx

### Conditions:

Number of c-planes: 2

Lux at center: 151 lx

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





Total lumen output:

1468 lm

Peak candela output:

5204 cd

Light quality:

CRI: 98,2

Color temperature:

2964 K

PRODUCT NAME:

ECLDISPLAYCRMX30K

MEASURAMENT CONDITIONS:

Beam angle:

Wash 1530 Max Zoom

Target:

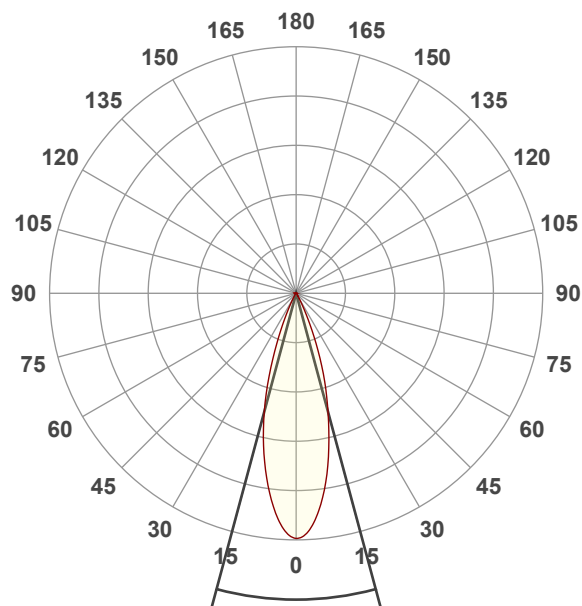
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 10:35:39

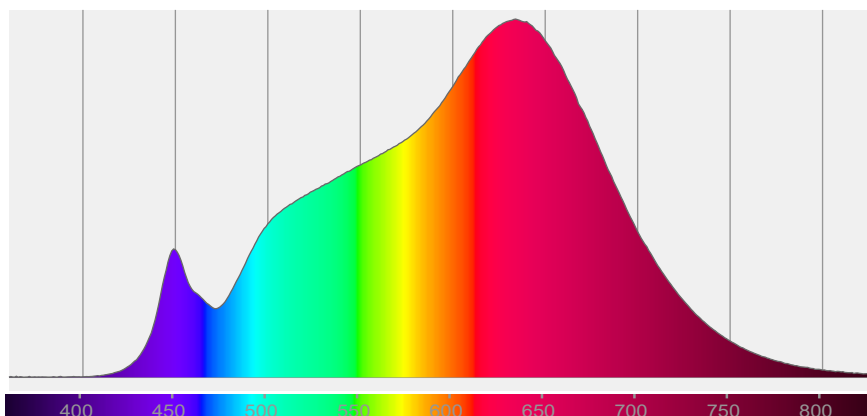


Beam angle 50%: 30,1°

Field angle 10%: 50°

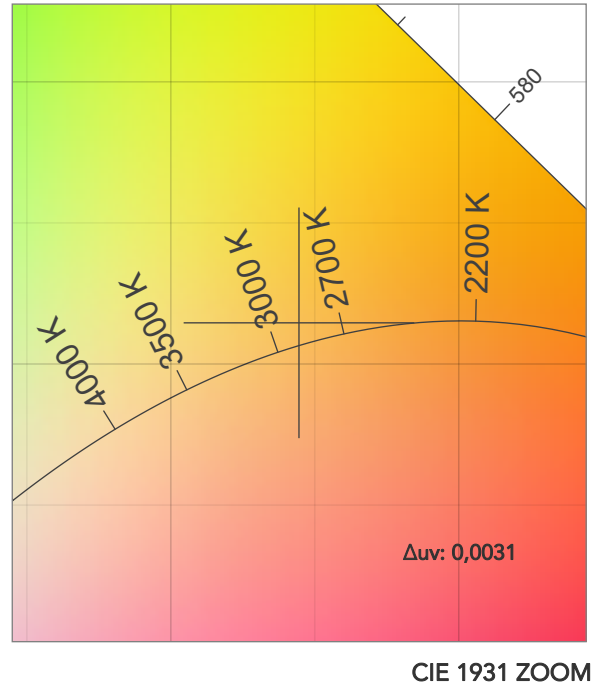
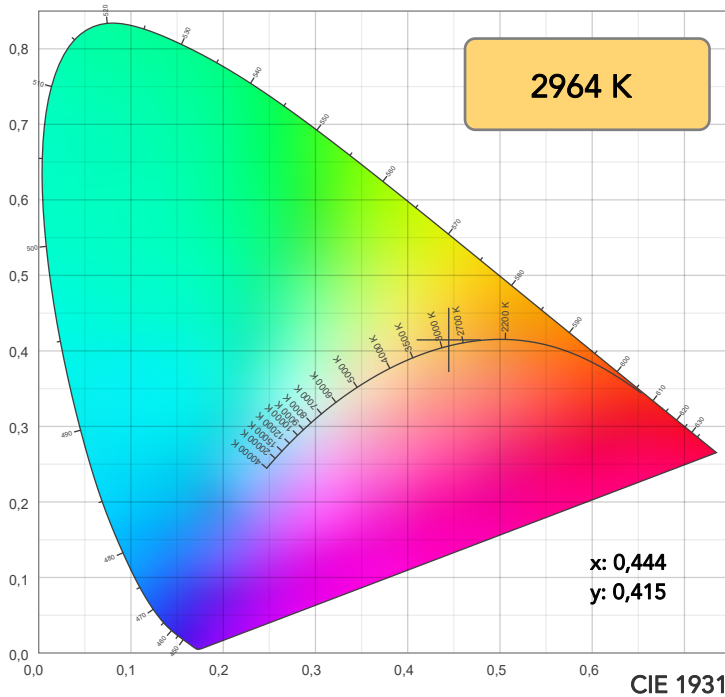
Cut off angle 2.5%: 61,2°

Spectra

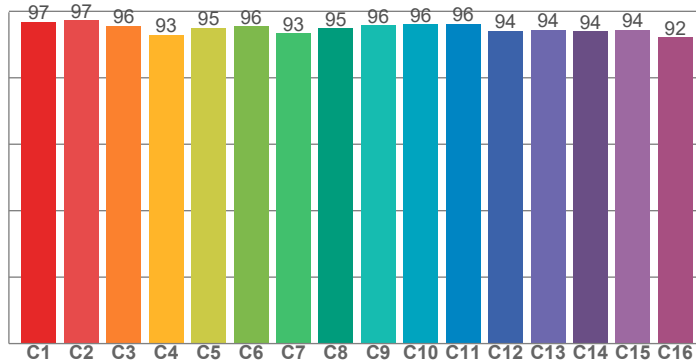




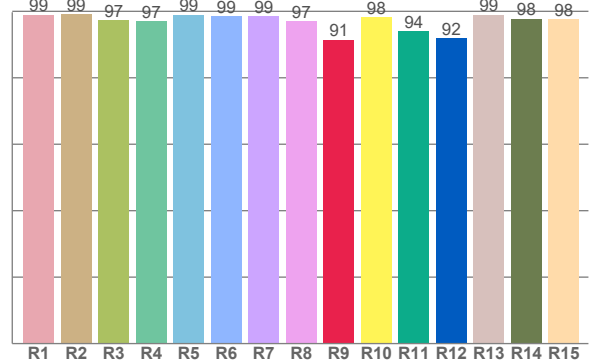
## COLOR DETAILS



**TM30: 95,1**



**CRI: 98,2 (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
98,9	99,2	97,2	97,0	99,0	98,5	98,6	97,0	91,4	98,2	93,9	91,9	98,9	97,7	97,7

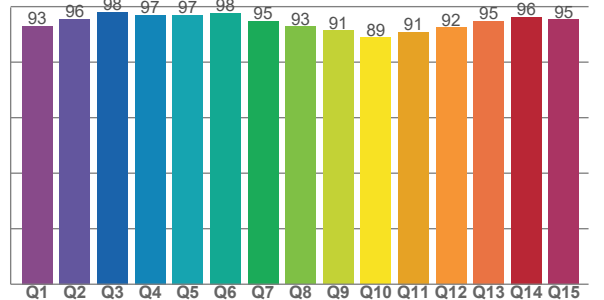
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,0	95,5	98,0	97,0	96,9	97,8	94,9	92,9	91,4	88,9	90,9	92,4	94,8	96,3	95,4

**CQS: 93,6**



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
2964 K	98,2	91,4	95,1	98,9	93,6	98	0,444	0,415	0,0031



## TM30 DETAILS

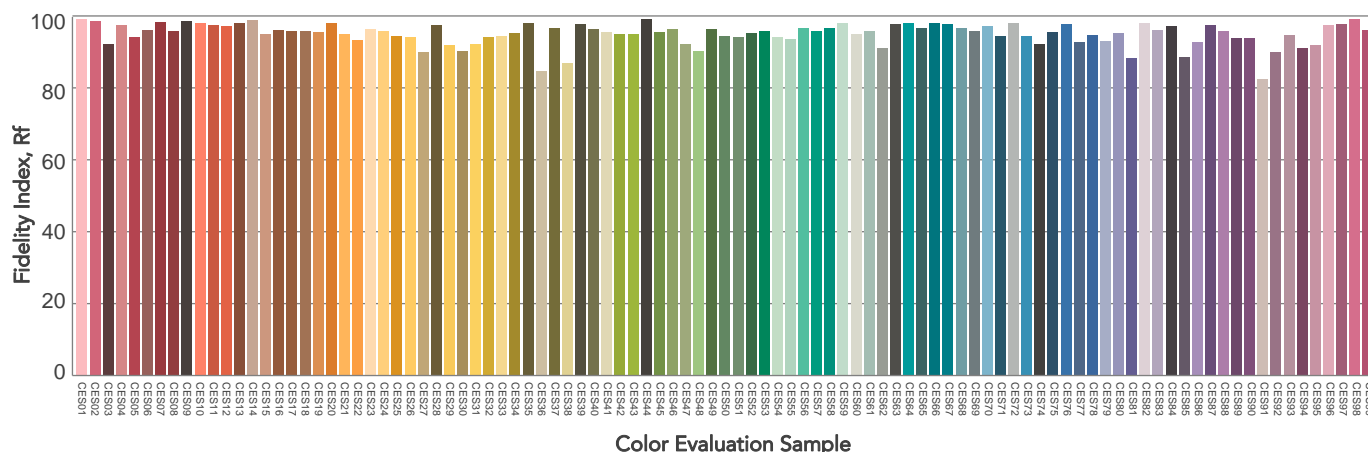
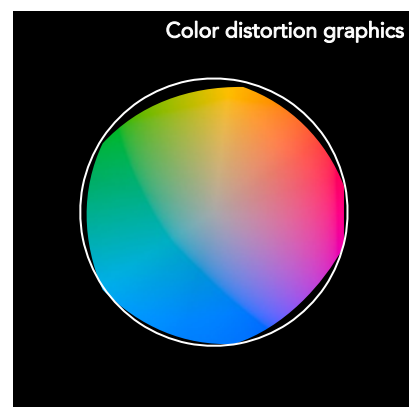
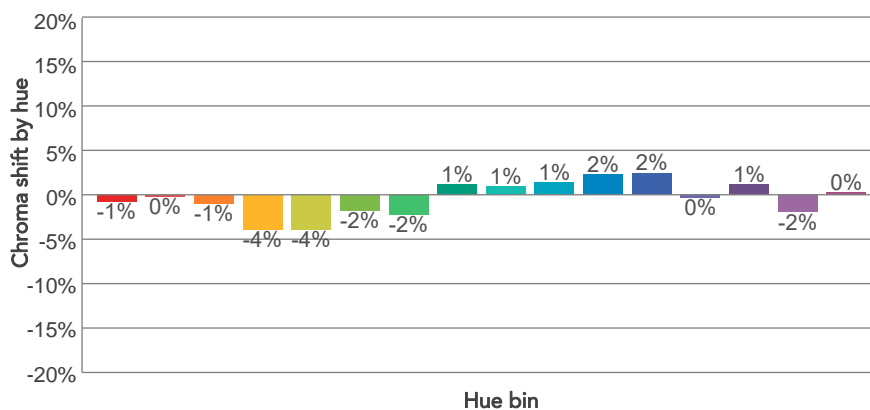
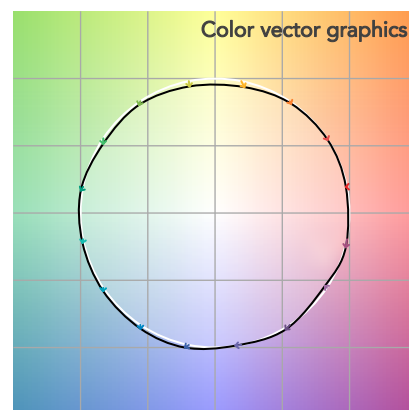
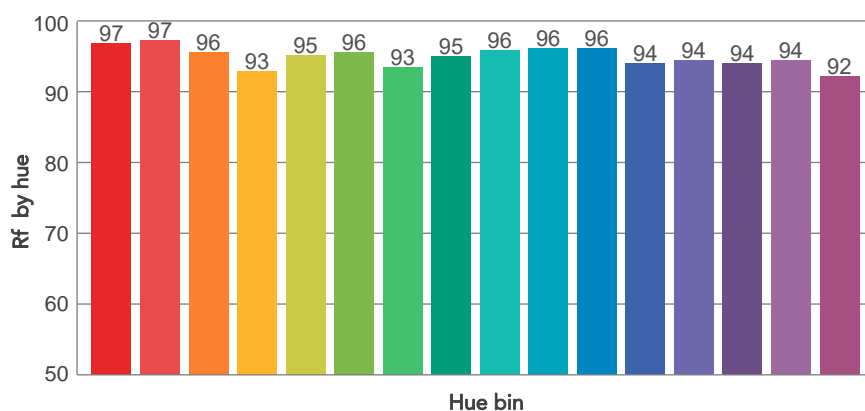
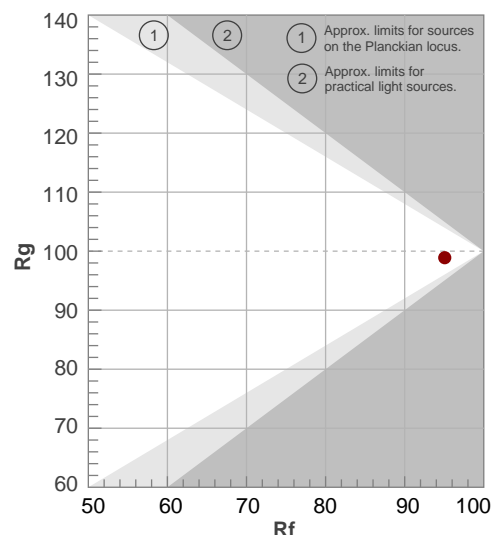
**Rf 95,1**

Fidelity index Rf

**Rg 98,9**

Gammut index

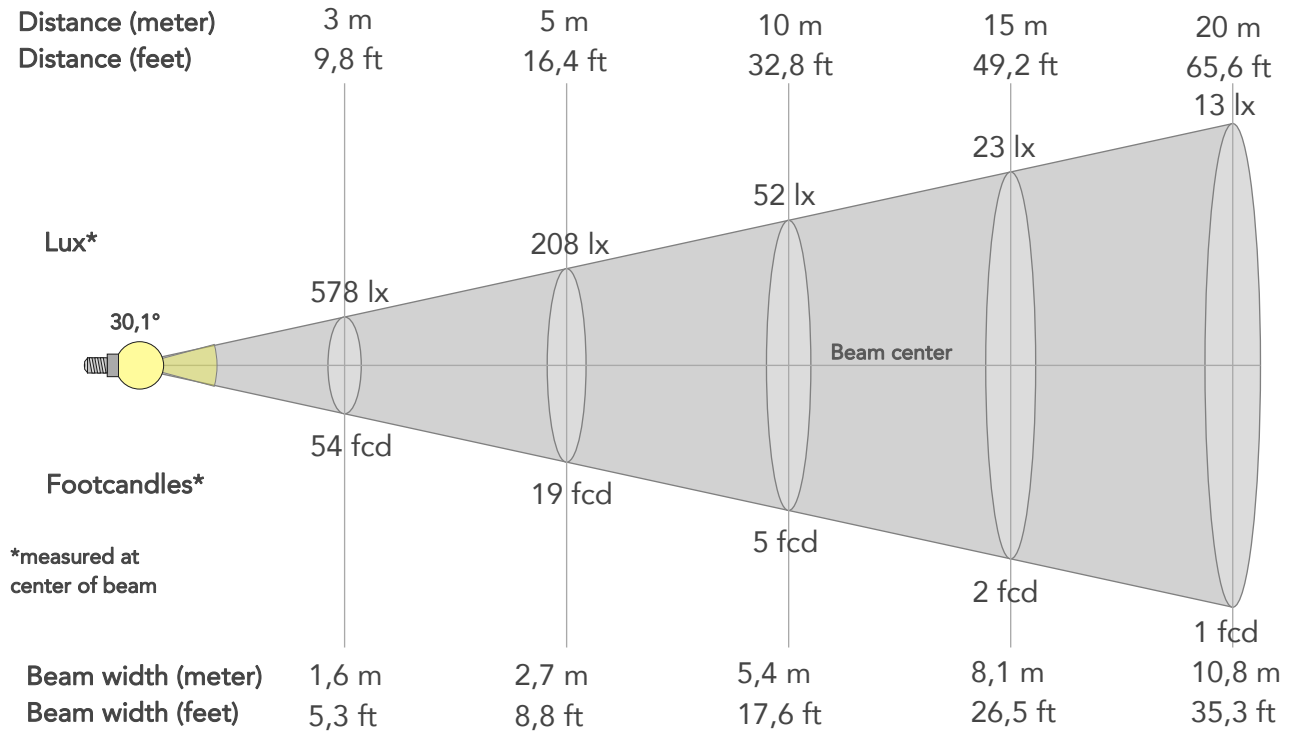
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	97	-1%	0%
2	97	0%	-1%
3	96	-1%	-2%
4	93	-4%	-3%
5	95	-4%	0%
6	96	-2%	2%
7	93	-2%	3%
8	95	1%	3%
9	96	1%	2%
10	96	1%	2%
11	96	2%	2%
12	94	2%	-2%
13	94	0%	-4%
14	94	1%	-4%
15	94	-2%	0%
16	92	0%	-6%





# BEAM DETAILS

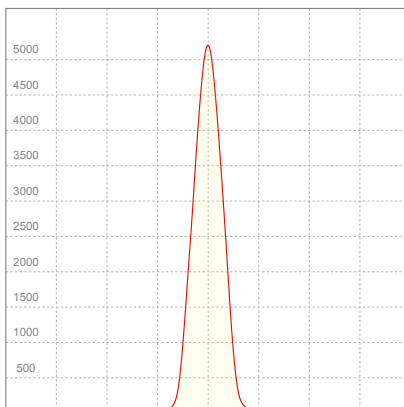
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,1°	50°	61,2°	99,6%	98,6%



## 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	5202lx	1301lx	578lx	325lx	208lx	92lx	52lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	483fcd	121fcd	54fcd	30fcd	19fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4m	5,4m	8,1m	10,8m	13,5m	16,1m	21,5m	26,9m
Beam wid.	1,8ft	3,6ft	5,3ft	7ft	8,8ft	13,2ft	17,6ft	26,5ft	35,3ft	44,1ft	52,9ft	70,6ft	88,2ft

## LINEAR DISTRIBUTION DIAGRAM



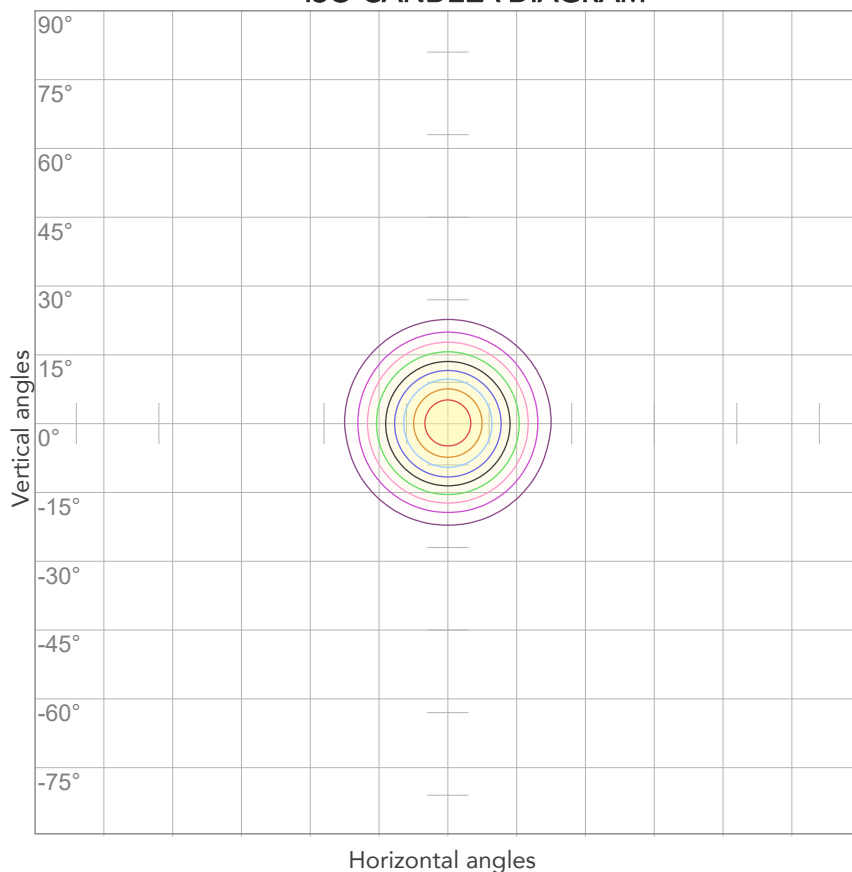
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,157A	34,1W	0,96	43lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



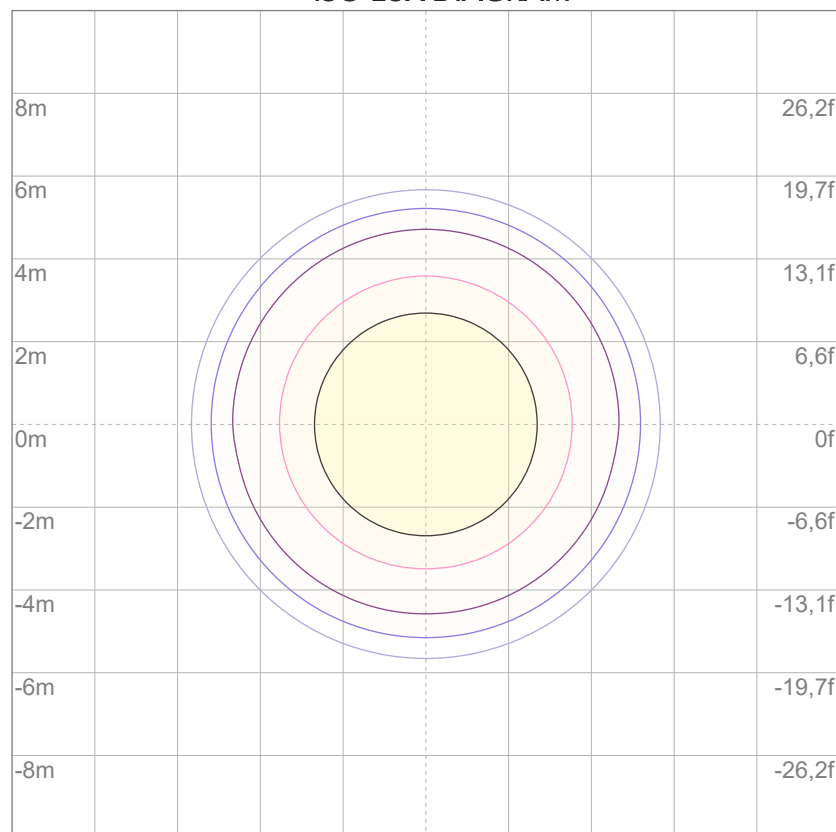
10%	520 cd
20%	1040 cd
30%	1561 cd
40%	2081 cd
50%	2601 cd
60%	3121 cd
70%	3642 cd
80%	4162 cd

### Conditions:

Number of c-planes: 2

Candela at center: 5202 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:

1196 lm

Peak candela output:

14267 cd

Light quality:

CRI: 98,1

Color temperature:

2955 K

**PRODUCT NAME:**

ECLDISPLAYCRMX30K

**MEASURAMENT CONDITIONS:**

Beam angle:

Wash 1530 Min Zoom

Target:

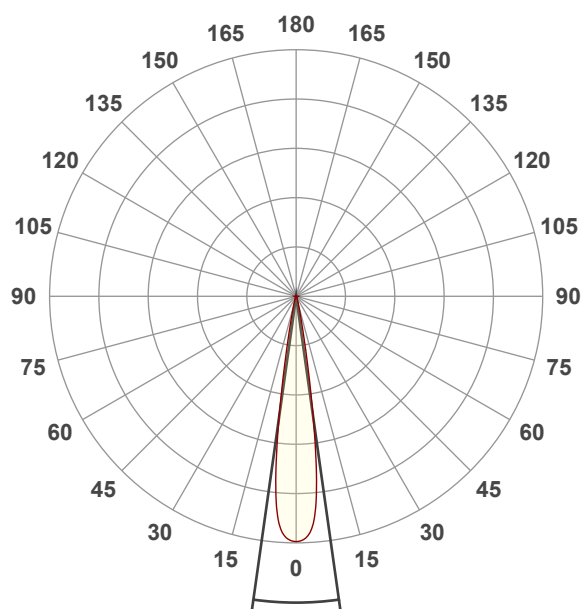
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 10:38:02

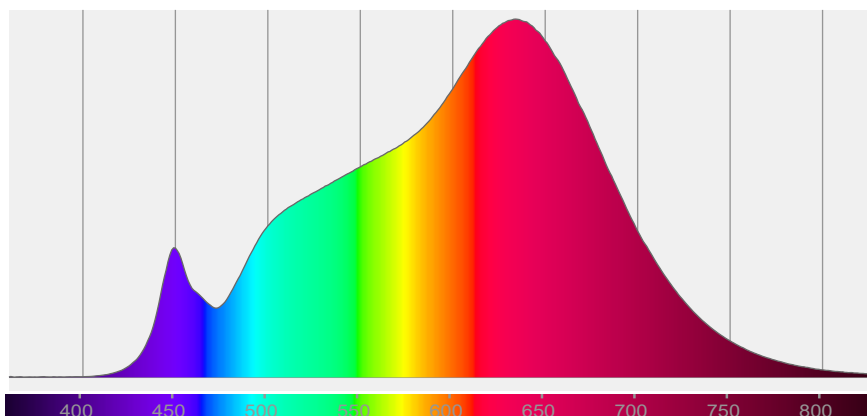


Beam angle 50%: 16°

Field angle 10%: 24,2°

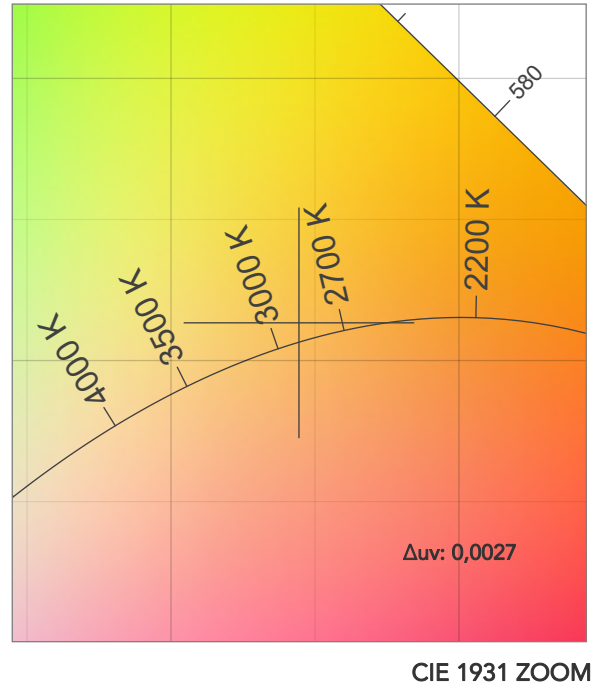
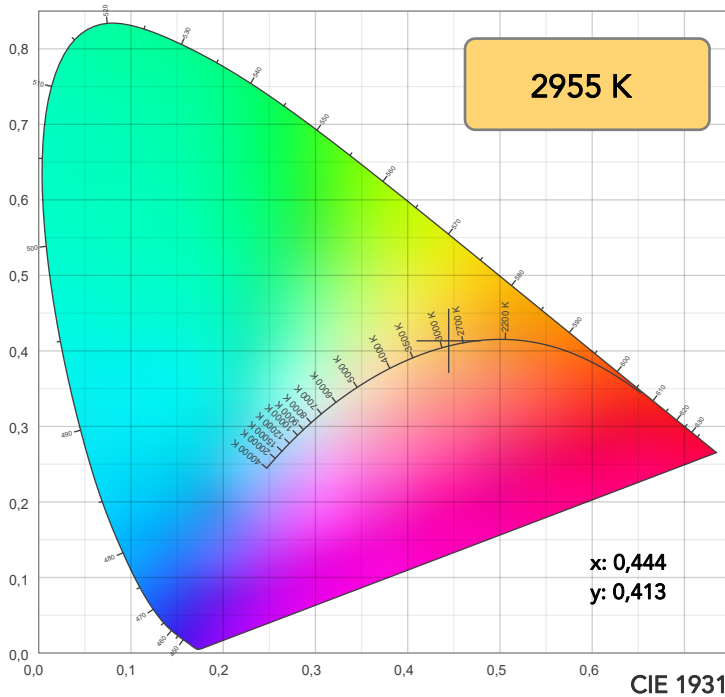
Cut off angle 2.5%: 34,3°

**Spectra**

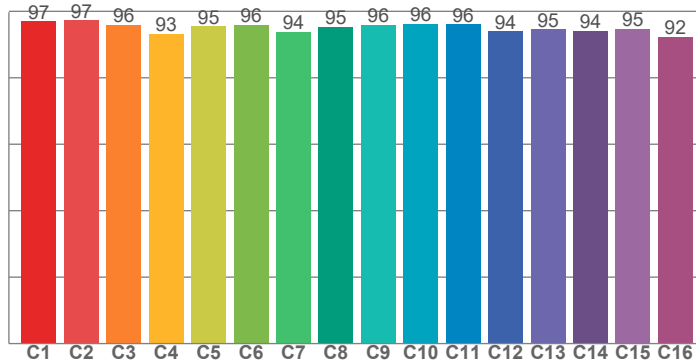




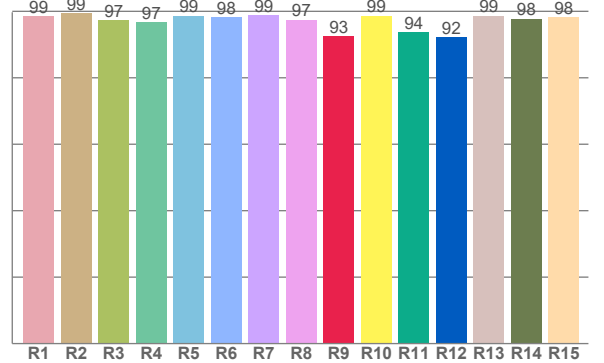
# COLOR DETAILS



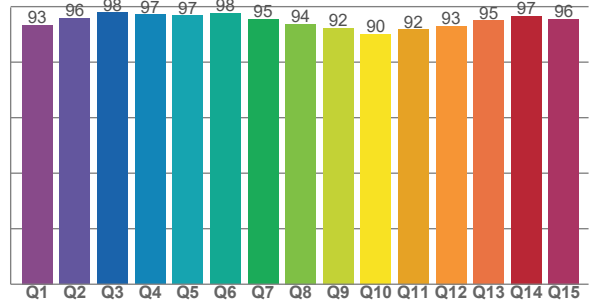
TM30: 95,3



CRI: 98,1 (R1-R8)



CQS: 94,1



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
98,6	99,3	97,3	96,8	98,7	98,1	98,8	97,5	92,6	98,7	93,6	92,1	98,7	97,8	98,1

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
97,0	97,3	95,9	93,3	95,5	96,0	93,8	95,3	96,0	96,2	96,1	94,0	94,6	94,1	94,6	92,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,4	95,8	97,9	97,1	96,8	97,6	95,4	93,8	92,3	90,1	91,8	93,0	95,0	96,7	95,6

## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
2955 K	98,1	92,6	95,3	99,2	94,1	98	0,444	0,413	0,0027

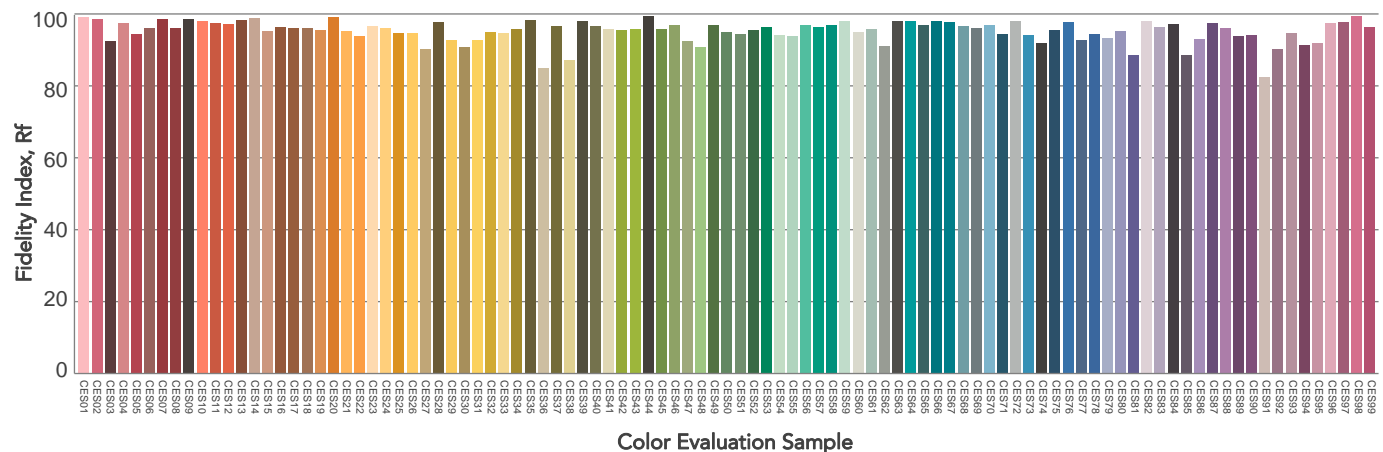
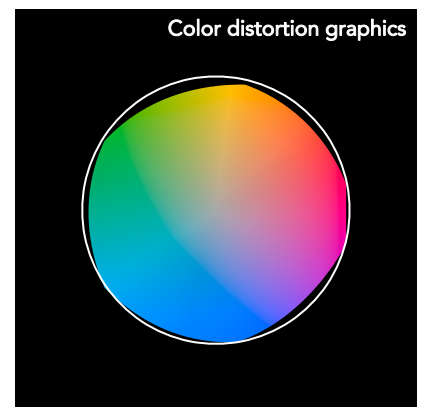
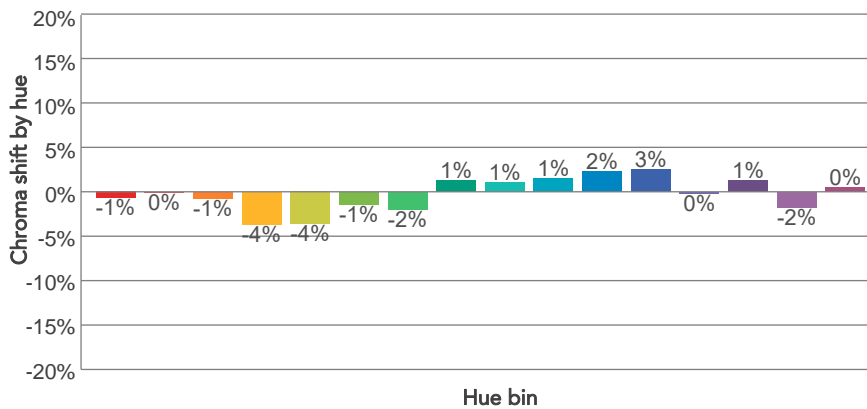
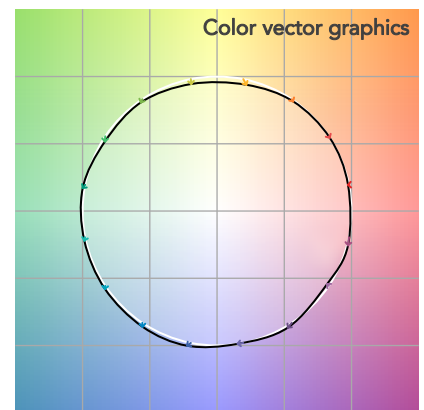
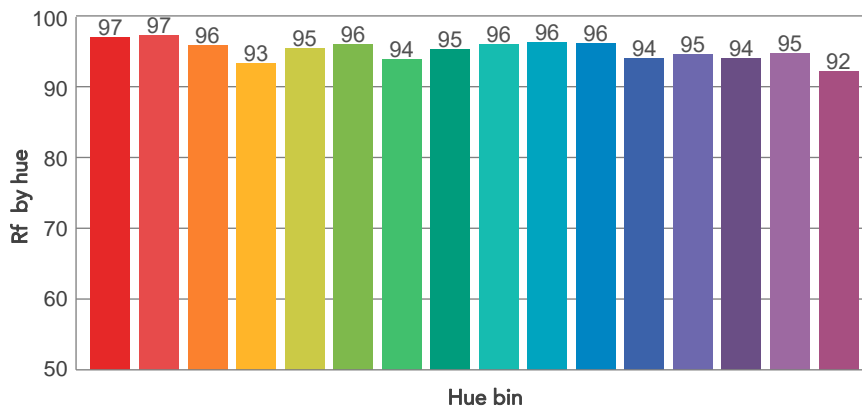
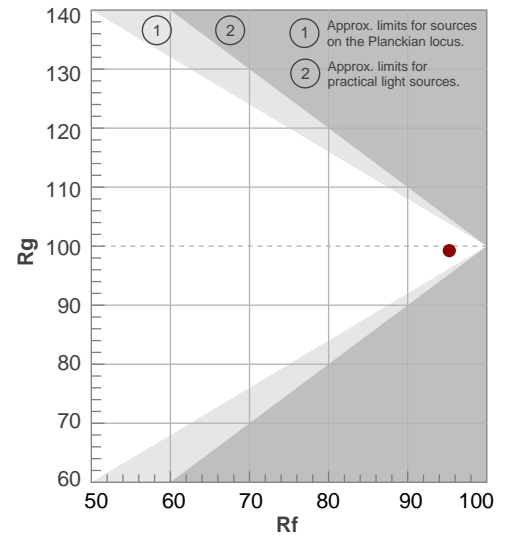


# TM30 DETAILS

**Rf 95,3**  
Fidelity index Rf

**Rg 99,2**  
Gammut index

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

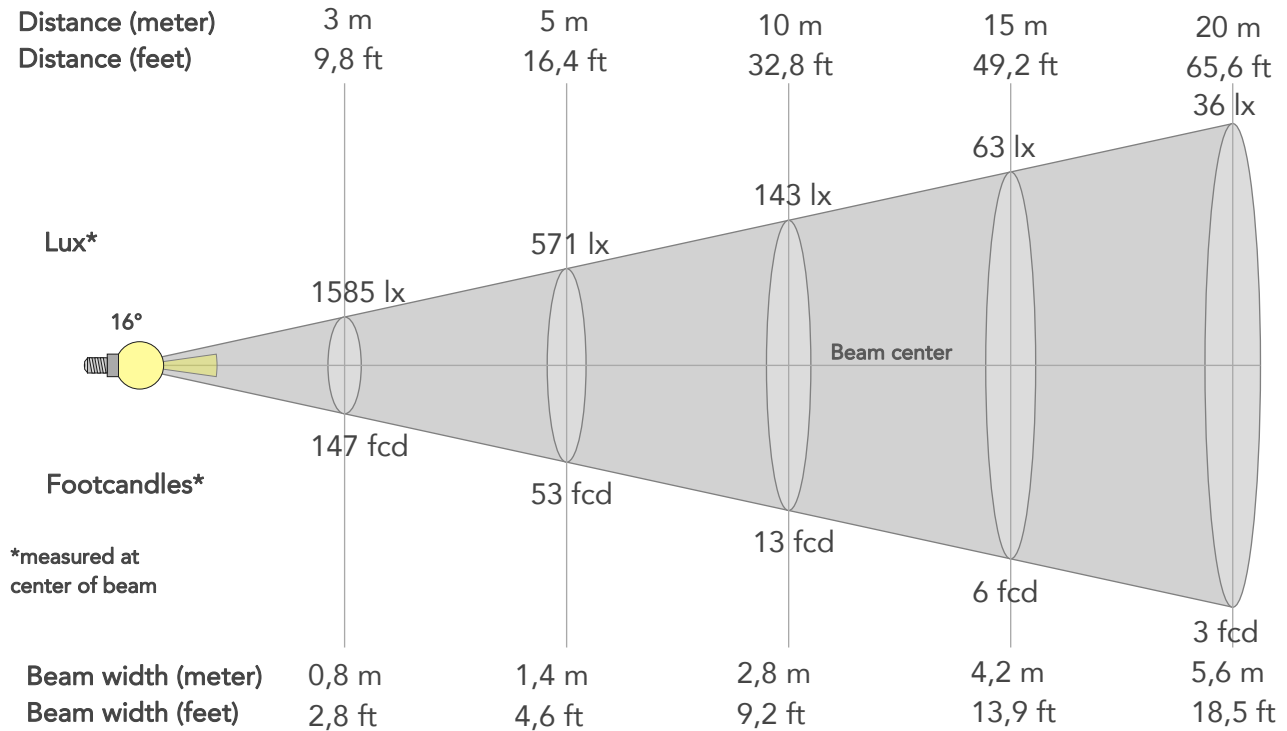




# BEAM DETAILS



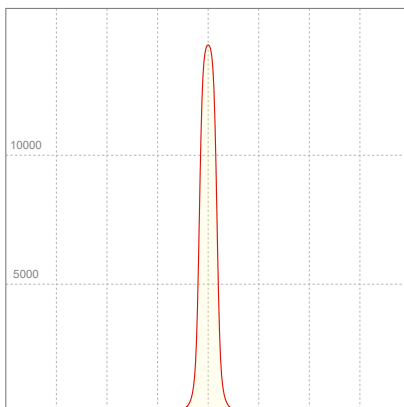
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16°	24,2°	34,3°	99,1%	98,1%



## 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	14267lx	3567lx	1585lx	892lx	571lx	254lx	143lx	63lx	36lx	23lx	16lx	9lx	6lx
Footcand.	1325fcd	331fcd	147fcd	83fcd	53fcd	24fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	1fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,5m	11,3m	14,1m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,6ft	6,9ft	9,2ft	13,9ft	18,5ft	23,1ft	27,7ft	37ft	46,2ft

## LINEAR DISTRIBUTION DIAGRAM



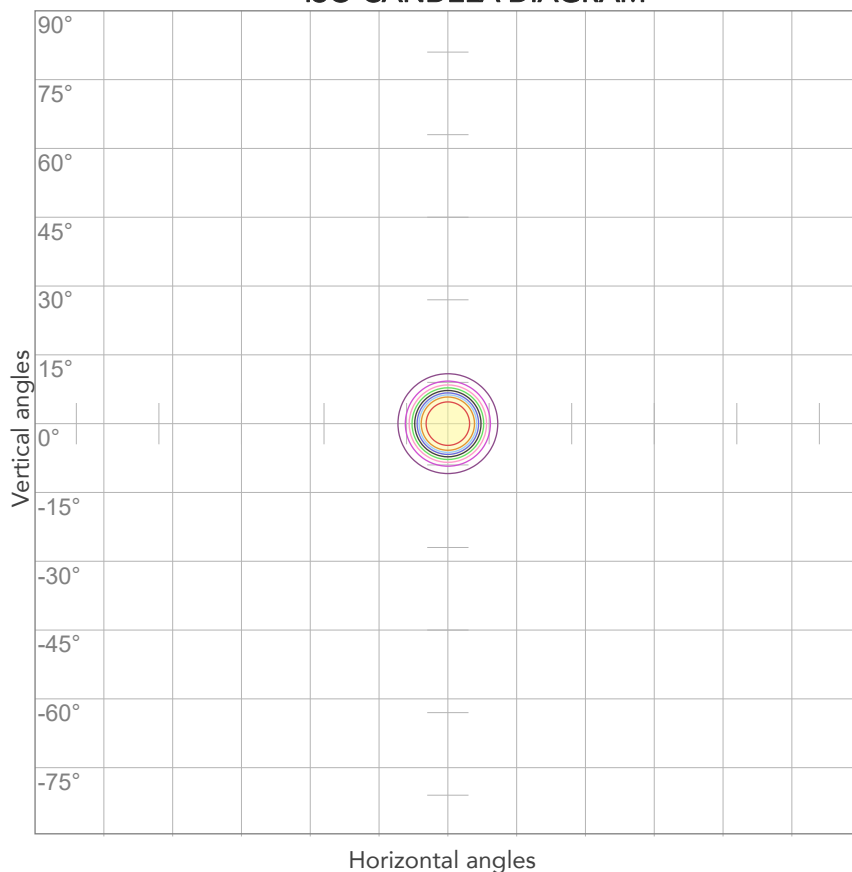
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,157A	34,0W	0,96	35lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



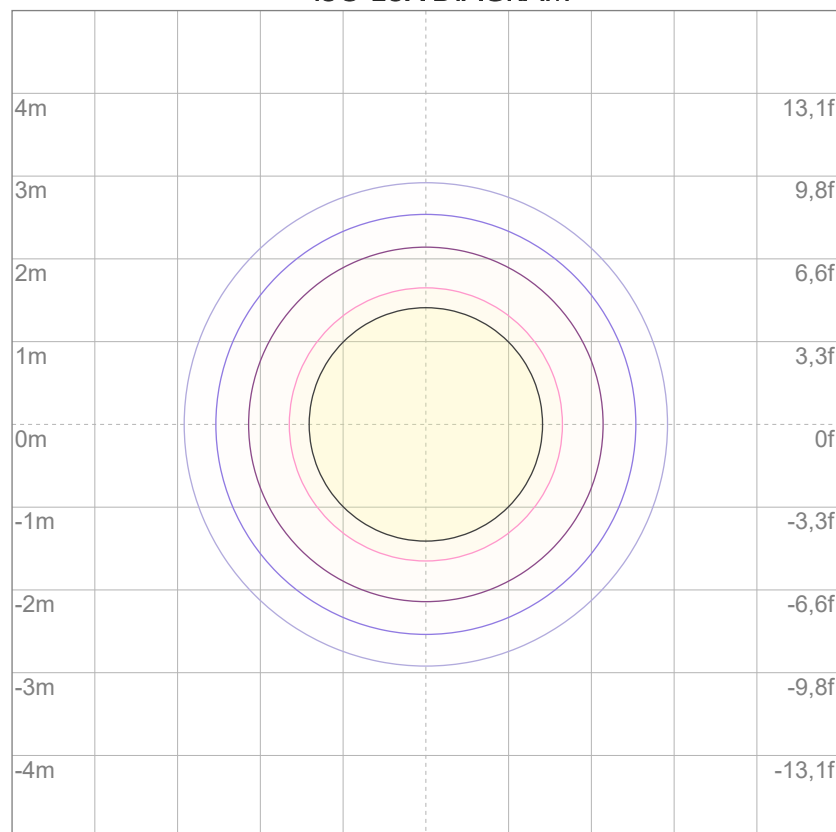
10%	1427 cd
20%	2853 cd
30%	4280 cd
40%	5707 cd
50%	7133 cd
60%	8560 cd
70%	9987 cd
80%	11413 cd

### Conditions:

Number of c-planes: 2

Candela at center: 14267 cd

## ISO LUX DIAGRAM



3%	4,28 lx
5%	7,13 lx
10%	14,3 lx
30%	42,8 lx
50%	71,3 lx

### Conditions:

Number of c-planes: 2

Lux at center: 143 lx

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





Total lumen output:

1663 lm

Peak candela output:

2082 cd

Light quality:

CRI: 98,3

Color temperature:

3003 K

**PRODUCT NAME:**  
ECLDISPLAYCRMX30K

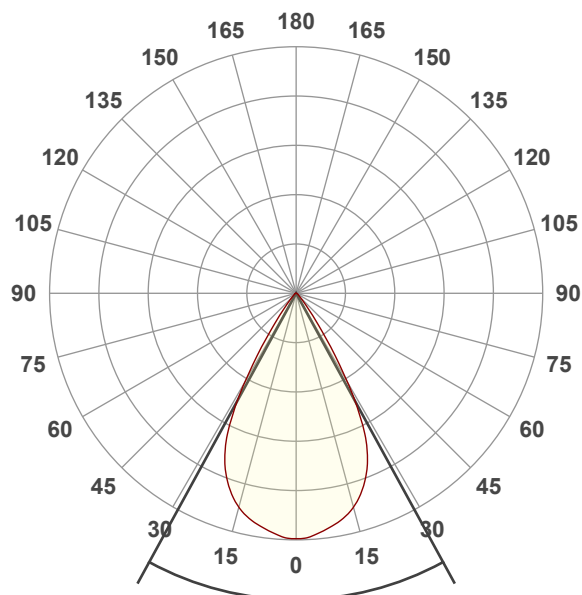
**MEASURAMENT CONDITIONS:**

Beam angle:  
Wash 2550 Max Zoom

Target:  
Full On

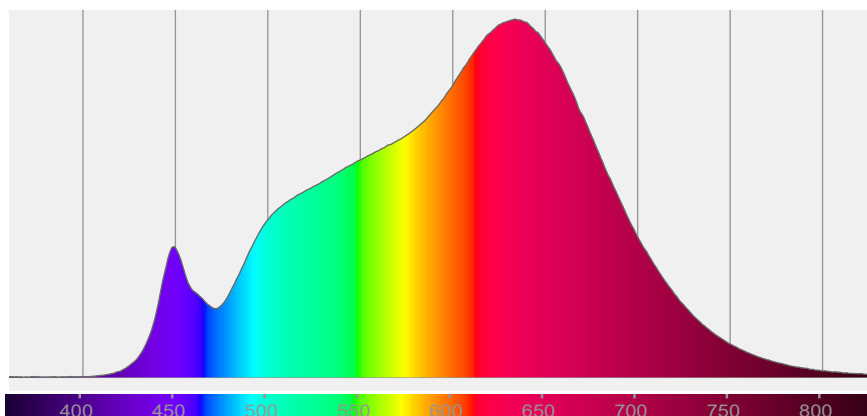
Operator:  
Giacomo Matteo

Date and time:  
18/06/2024 10:26:19



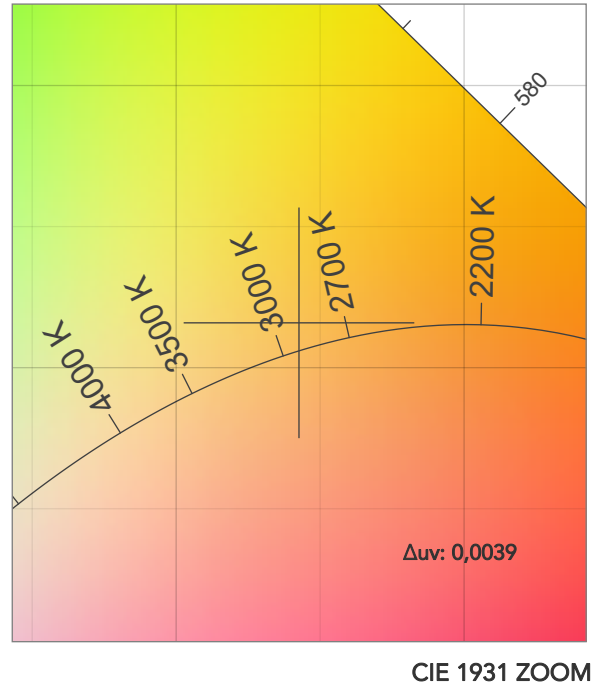
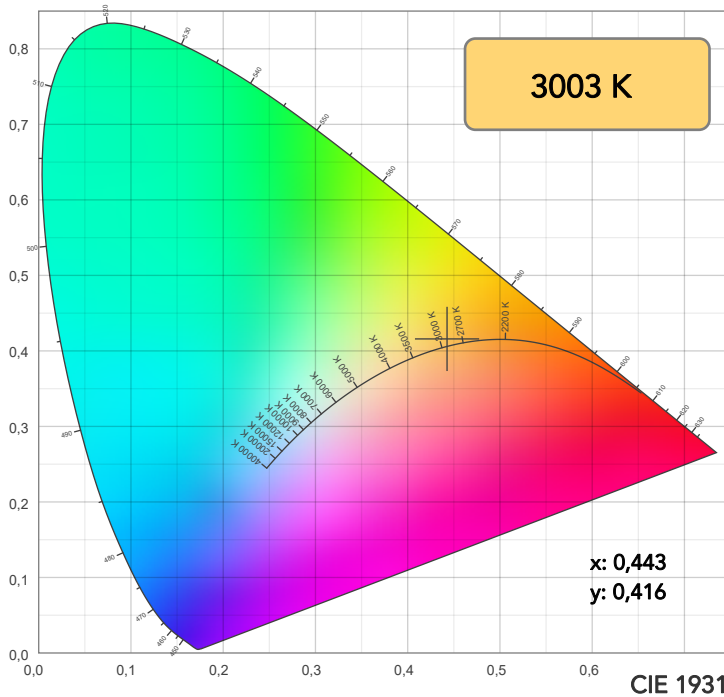
Beam angle 50%: 57,3°  
Field angle 10%: 74,7°  
Cut off angle 2.5%: 91°

**Spectra**

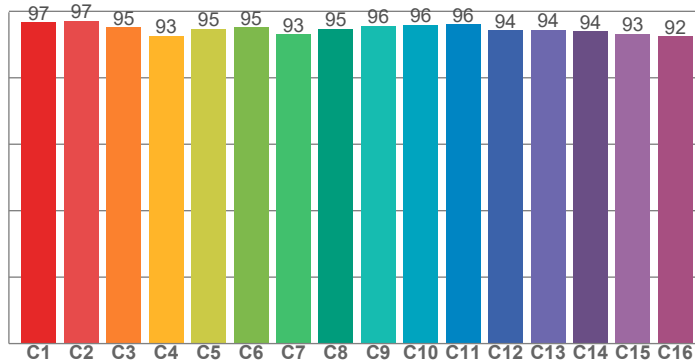




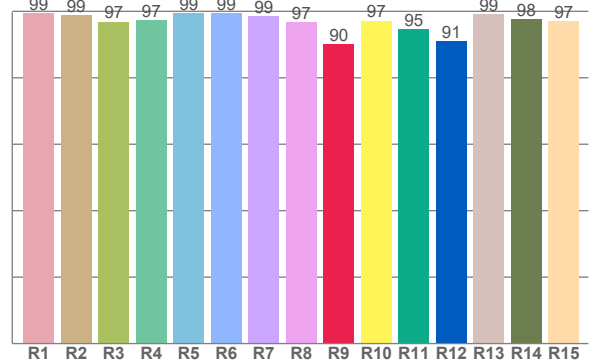
# COLOR DETAILS



TM30: 94,9



CRI: 98,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99,5	98,7	96,8	97,3	99,5	99,4	98,6	96,6	90,1	97,2	94,6	91,0	99,1	97,6	97,0

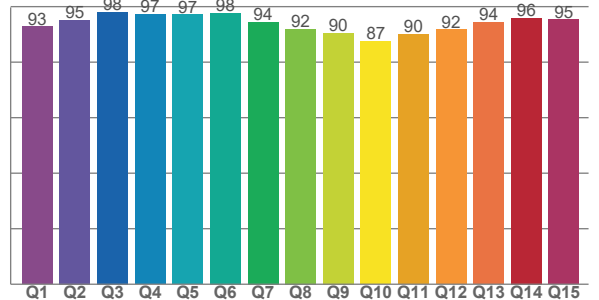
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,7	97,1	95,2	92,6	94,8	95,1	93,0	94,7	95,7	95,9	96,0	94,3	94,5	94,0	93,2	92,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,8	95,3	98,1	97,2	97,2	97,7	94,5	91,9	90,5	87,5	90,0	91,7	94,4	95,9	95,3

CQS: 93,0



## 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	Δuv
3003 K	98,3	90,1	94,9	98,6	93,0	98	0,443	0,416	0,0039

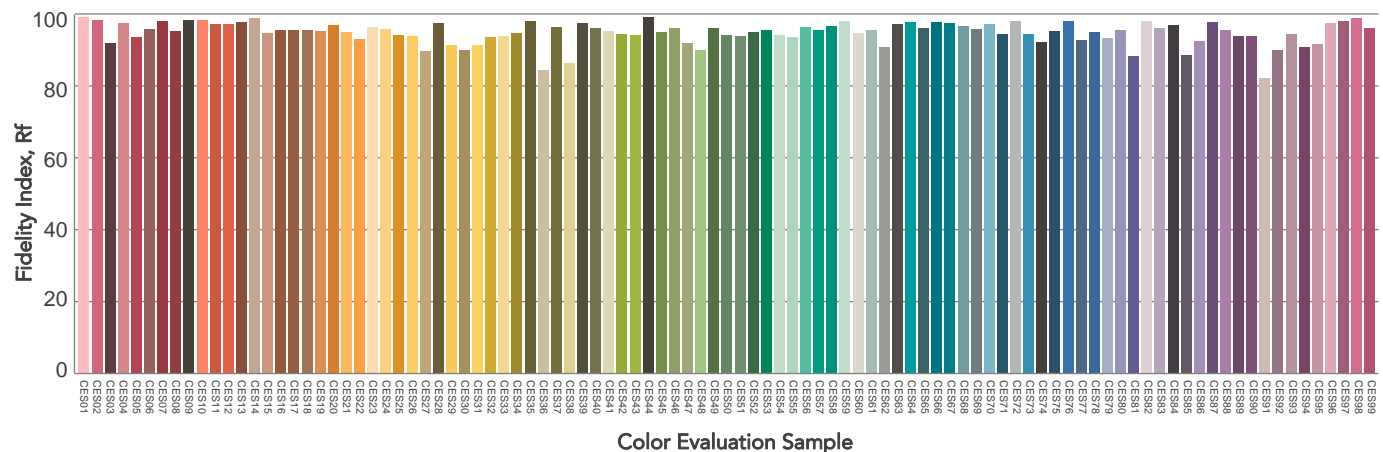
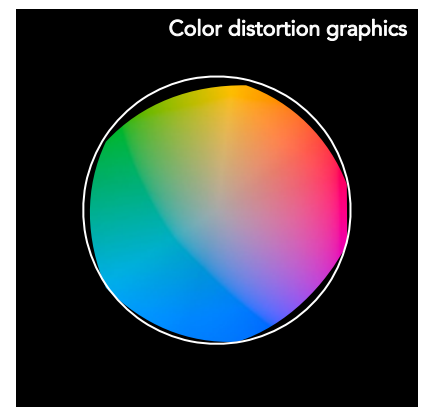
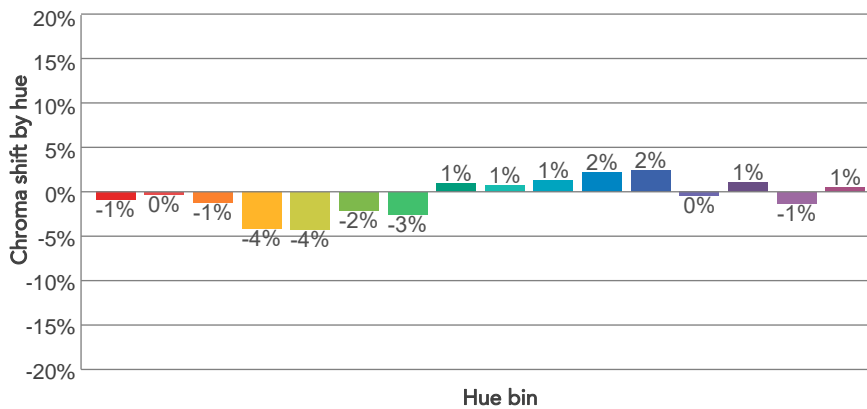
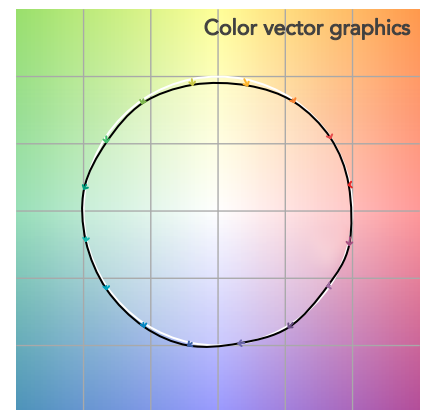
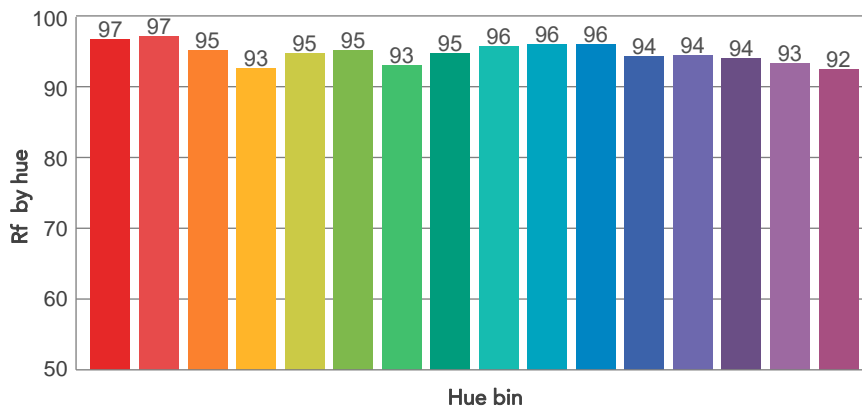
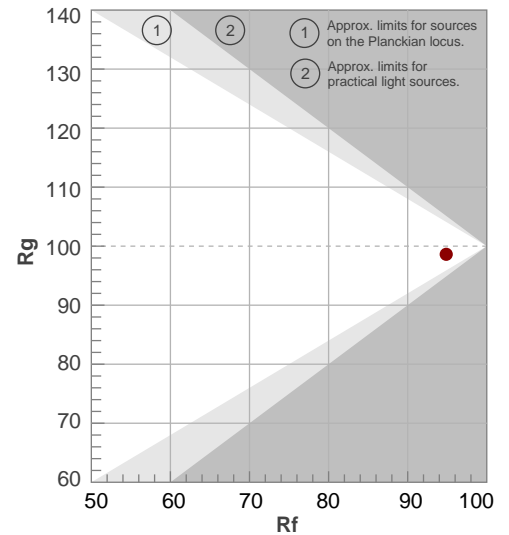


# TM30 DETAILS

**Rf 94,9**  
Fidelity index Rf

**Rg 98,6**  
Gammut index

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

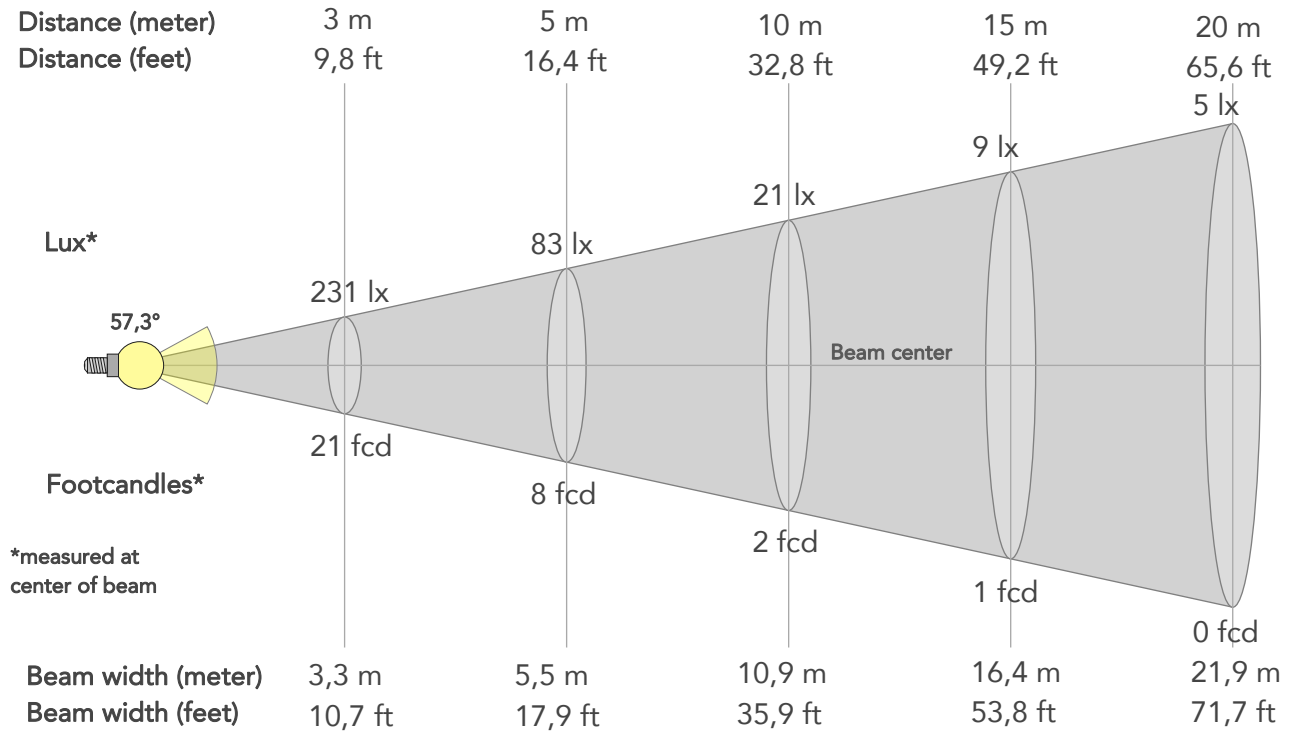




# BEAM DETAILS



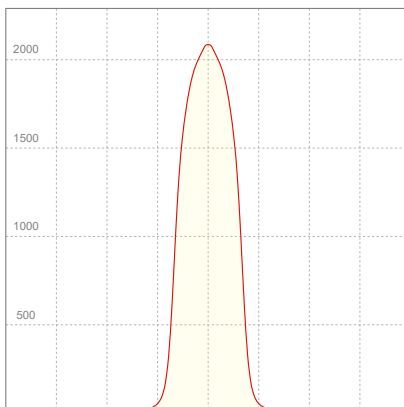
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57,3°	74,7°	91°	99,0%	96,8%



## 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	2082lx	520lx	231lx	130lx	83lx	37lx	21lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	193fcd	48fcd	21fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,3m	4,4m	5,5m	8,2m	10,9m	16,4m	21,9m	27,3m	32,8m	43,7m	54,7m
Beam wid.	3,6ft	7,2ft	10,7ft	14,3ft	17,9ft	26,9ft	35,9ft	53,8ft	71,7ft	89,6ft	107,6ft	143,4ft	179,3ft

## LINEAR DISTRIBUTION DIAGRAM



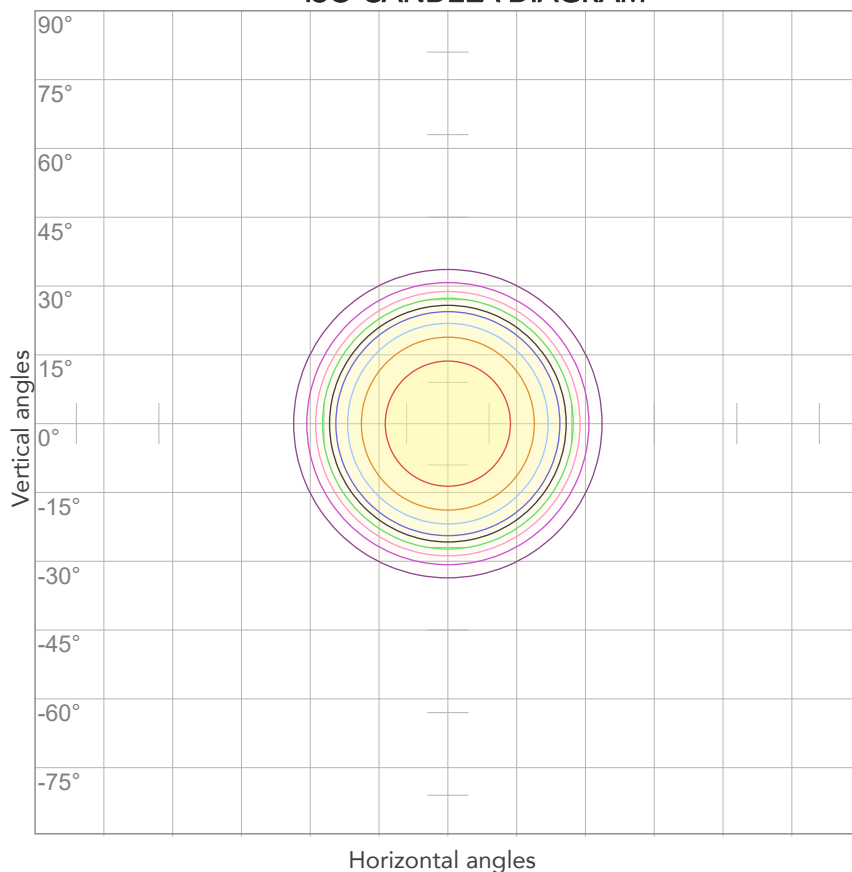
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,159A	34,5W	0,96	48lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



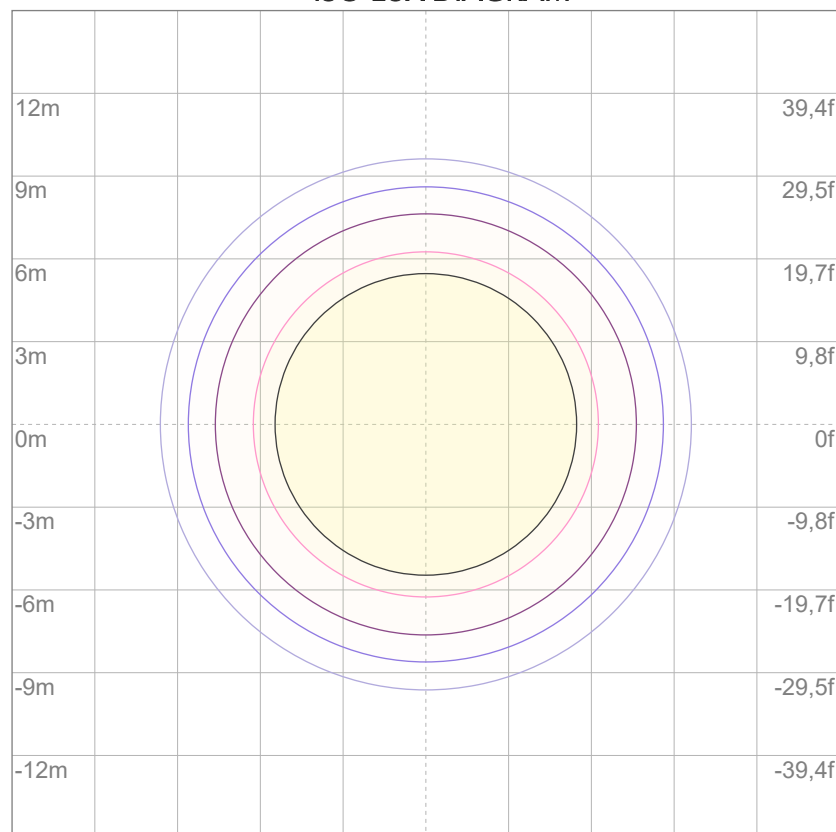
10%	208 cd
20%	416 cd
30%	625 cd
40%	833 cd
50%	1041 cd
60%	1249 cd
70%	1457 cd
80%	1666 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2082 cd

## ISO LUX DIAGRAM



3%	0,625 lx
5%	1,04 lx
10%	2,08 lx
30%	6,25 lx
50%	10,4 lx

### Conditions:

Number of c-planes: 2

Lux at center: 20,8 lx

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





Total lumen output:

1116 lm

Peak candela output:

5847 cd

Light quality:

CRI: 98,3

Color temperature:

2983 K

PRODUCT NAME:

ECLDISPLAYCRMX30K

MEASURAMENT CONDITIONS:

Beam angle:

Wash 2550 Min Zoom

Target:

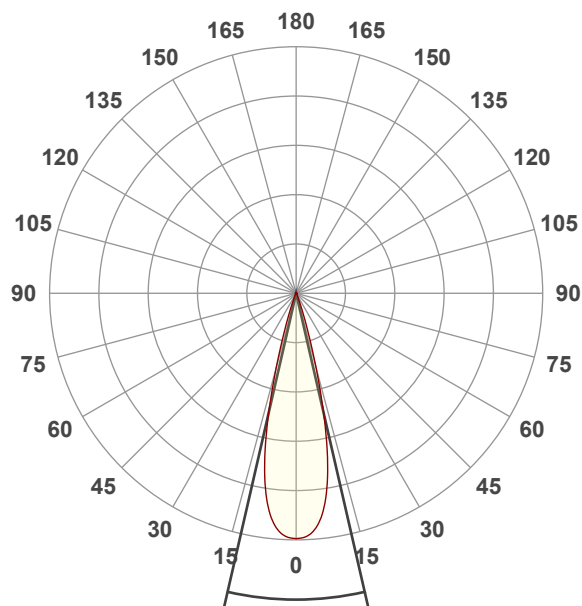
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 10:28:33

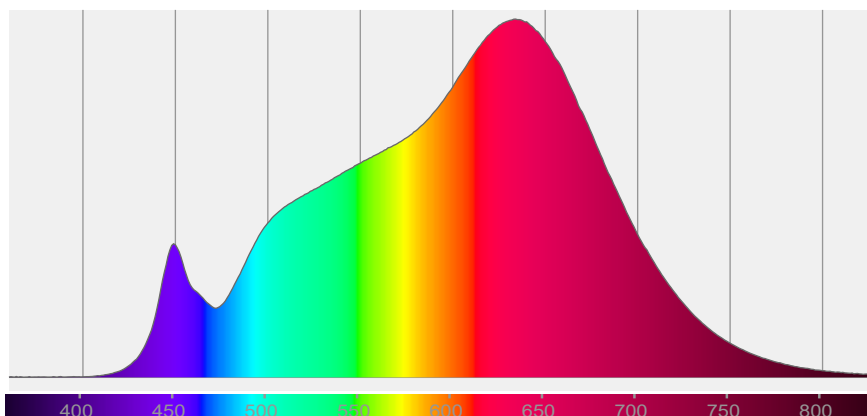


Beam angle 50%: 25,9°

Field angle 10%: 37,2°

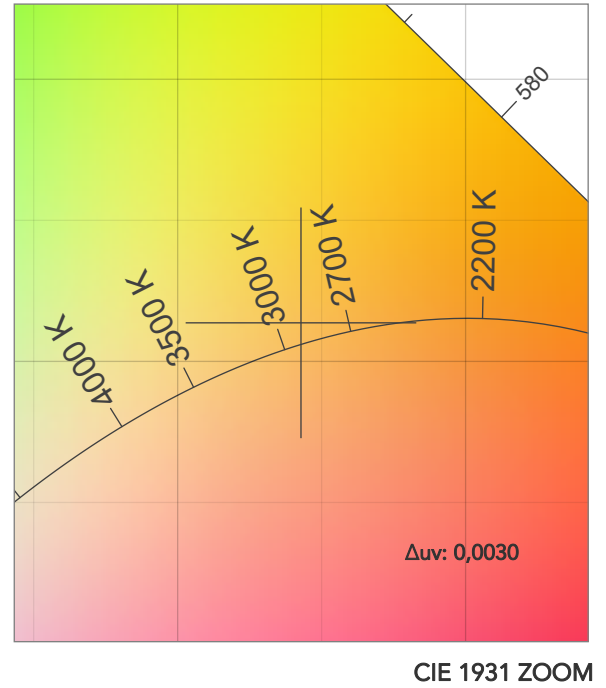
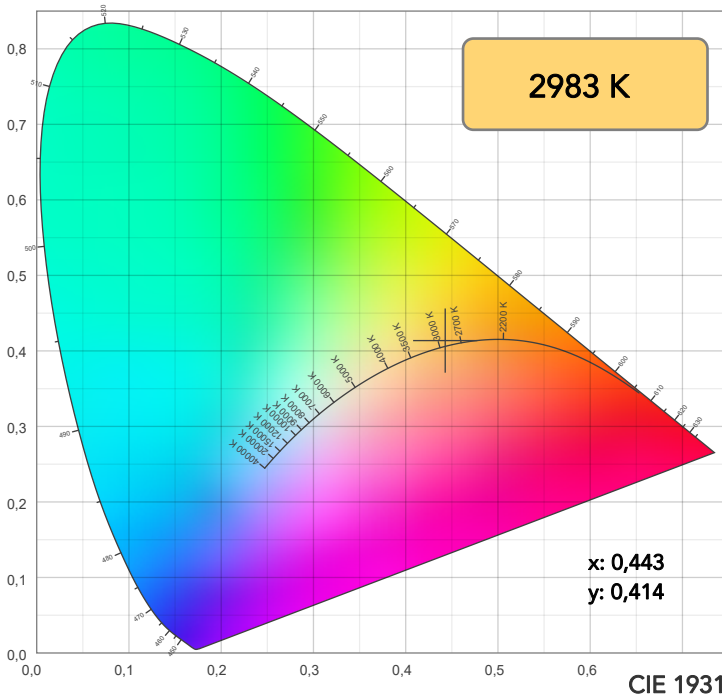
Cut off angle 2.5%: 46,4°

Spectra

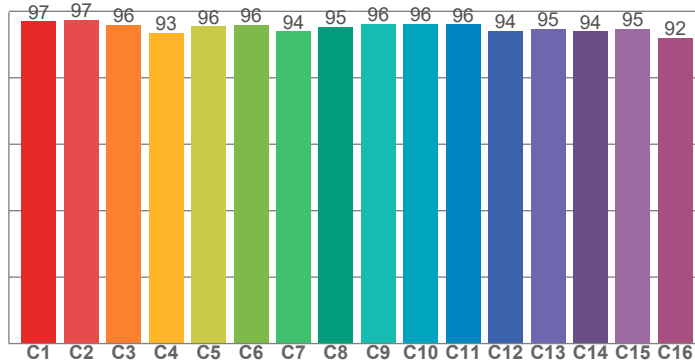




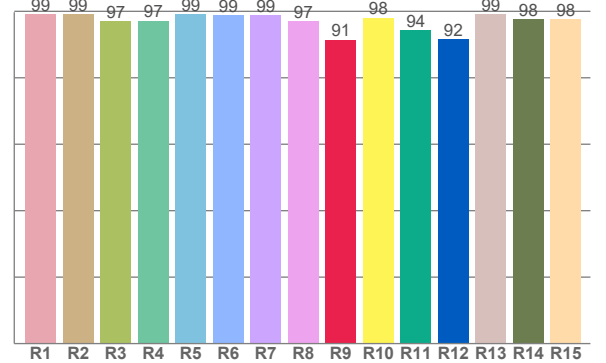
# COLOR DETAILS



TM30: 95,3



CRI: 98,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99,1	99,2	97,1	97,2	99,2	98,7	98,8	97,1	91,4	98,1	94,2	91,6	99,1	97,7	97,7

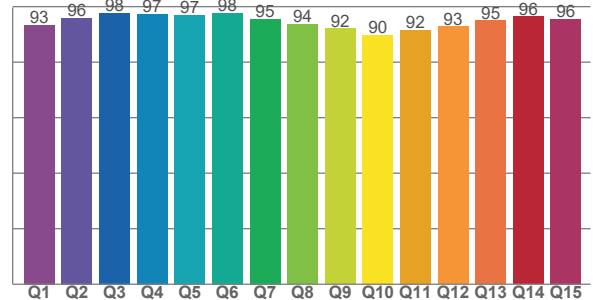
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,4	95,9	97,8	97,4	96,9	97,7	95,5	93,6	92,1	89,8	91,6	92,9	95,0	96,4	95,5

CQS: 94,1



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
2983 K	98,3	91,4	95,3	99,1	94,1	98	0,443	0,414	0,0030



## TM30 DETAILS

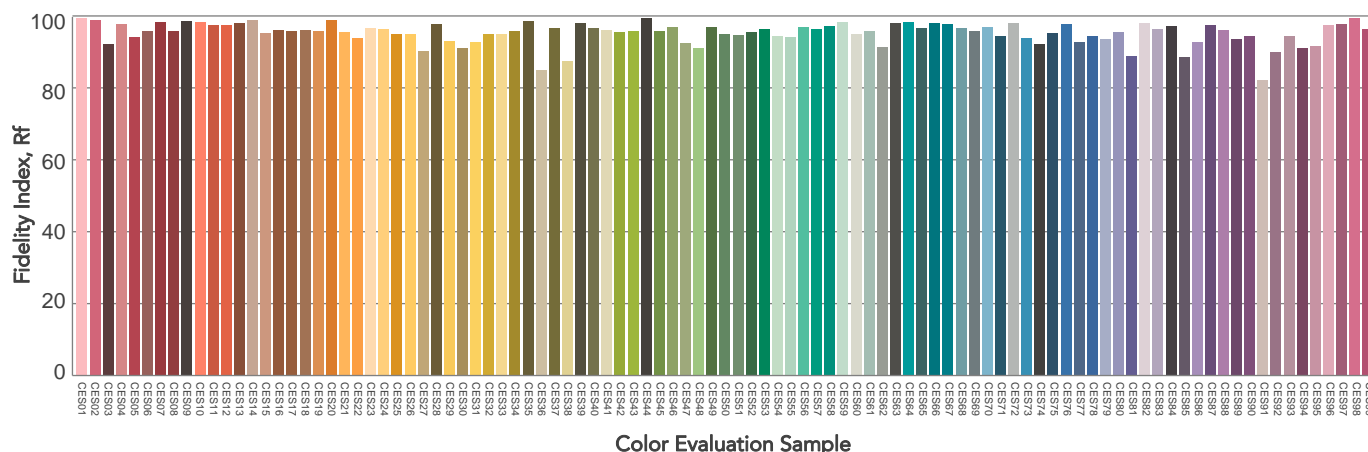
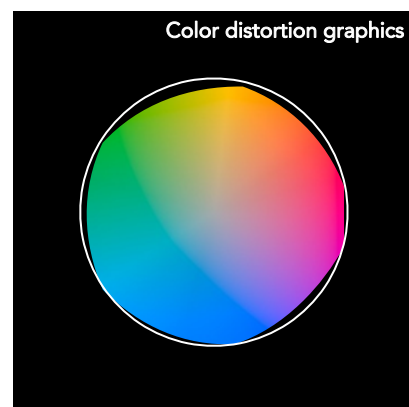
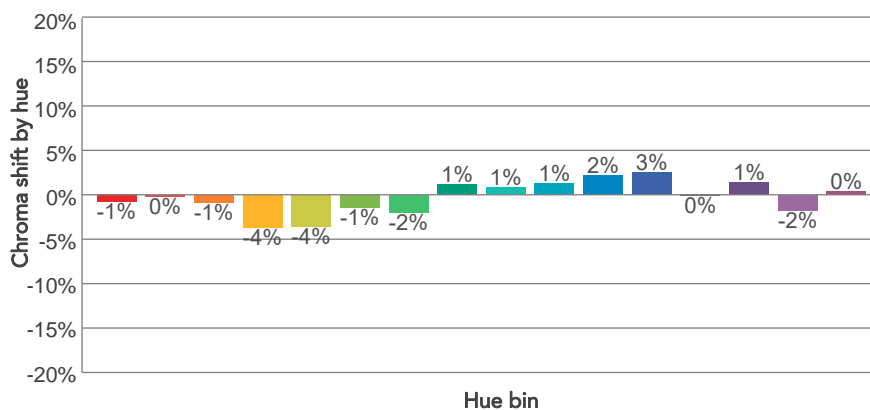
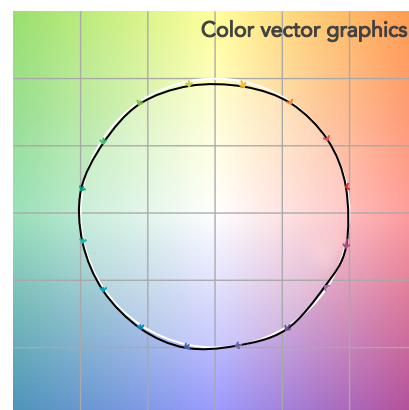
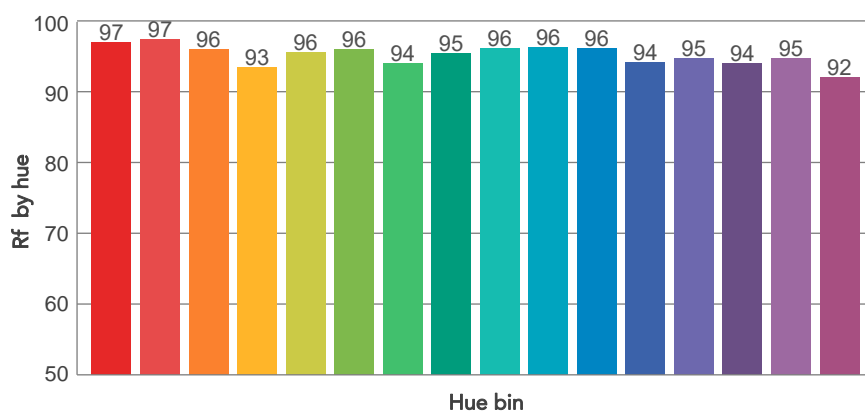
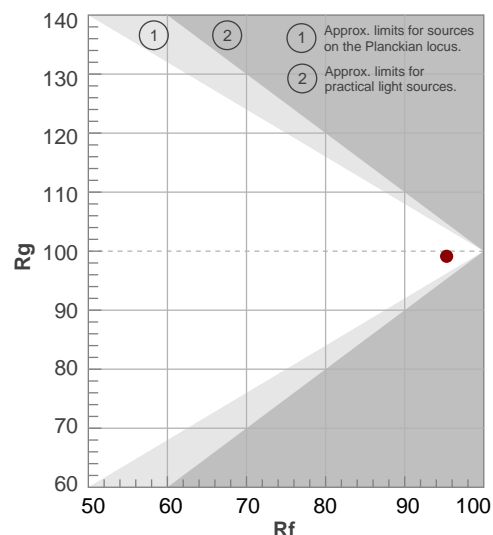
**Rf 95,3**

Fidelity index Rf

**Rg 99,1**

Gammut index

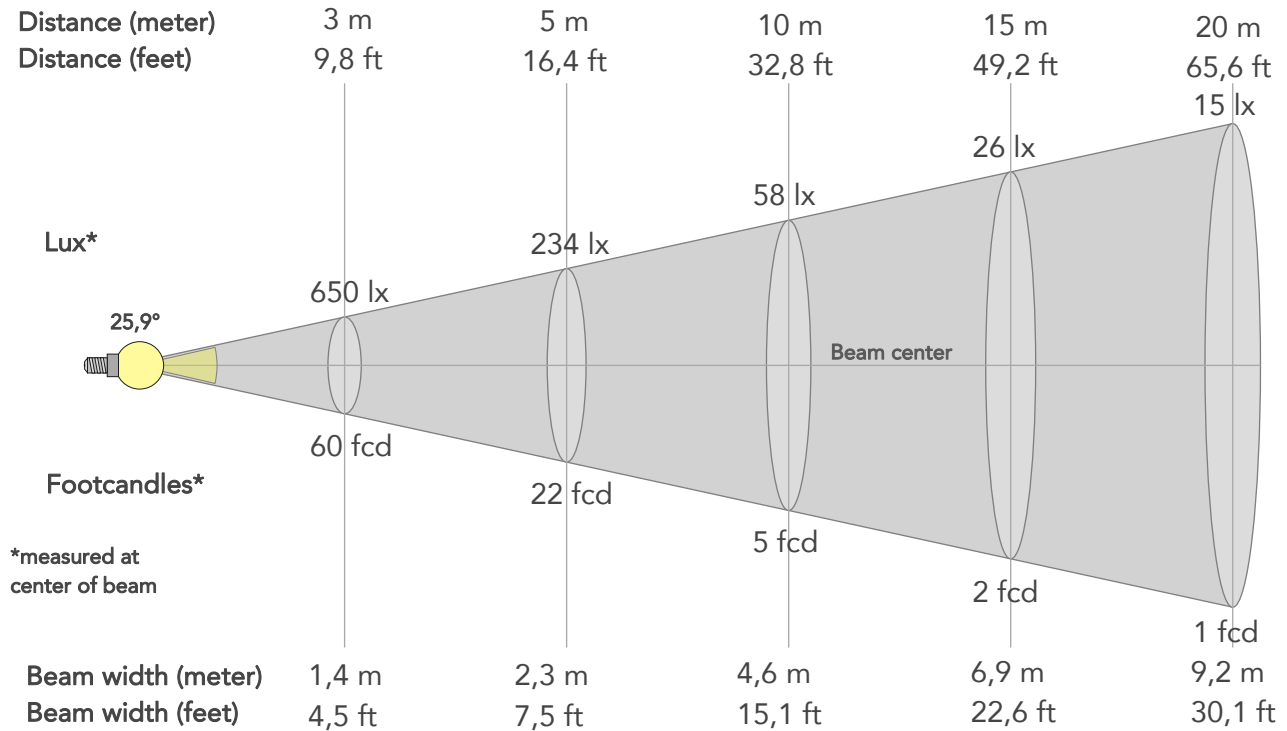
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	97	-1%	0%
2	97	0%	-1%
3	96	-1%	-2%
4	93	-4%	-3%
5	96	-4%	0%
6	96	-1%	2%
7	94	-2%	3%
8	95	1%	3%
9	96	1%	2%
10	96	1%	2%
11	96	2%	2%
12	94	3%	-2%
13	95	0%	-4%
14	94	1%	-4%
15	95	-2%	0%
16	92	0%	-6%





# BEAM DETAILS

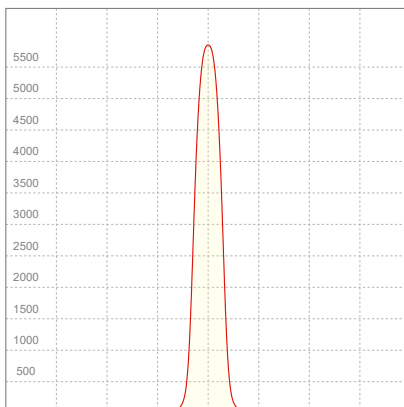
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,9°	37,2°	46,4°	98,8%	97,4%



## 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	5847lx	1462lx	650lx	365lx	234lx	104lx	58lx	26lx	15lx	9lx	6lx	4lx	2lx
Footcand.	543fcd	136fcd	60fcd	34fcd	22fcd	10fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,6m	6,9m	9,2m	11,5m	13,8m	18,4m	23m
Beam wid.	1,5ft	3ft	4,5ft	6ft	7,5ft	11,3ft	15,1ft	22,6ft	30,1ft	37,7ft	45,2ft	60,3ft	75,3ft

## LINEAR DISTRIBUTION DIAGRAM



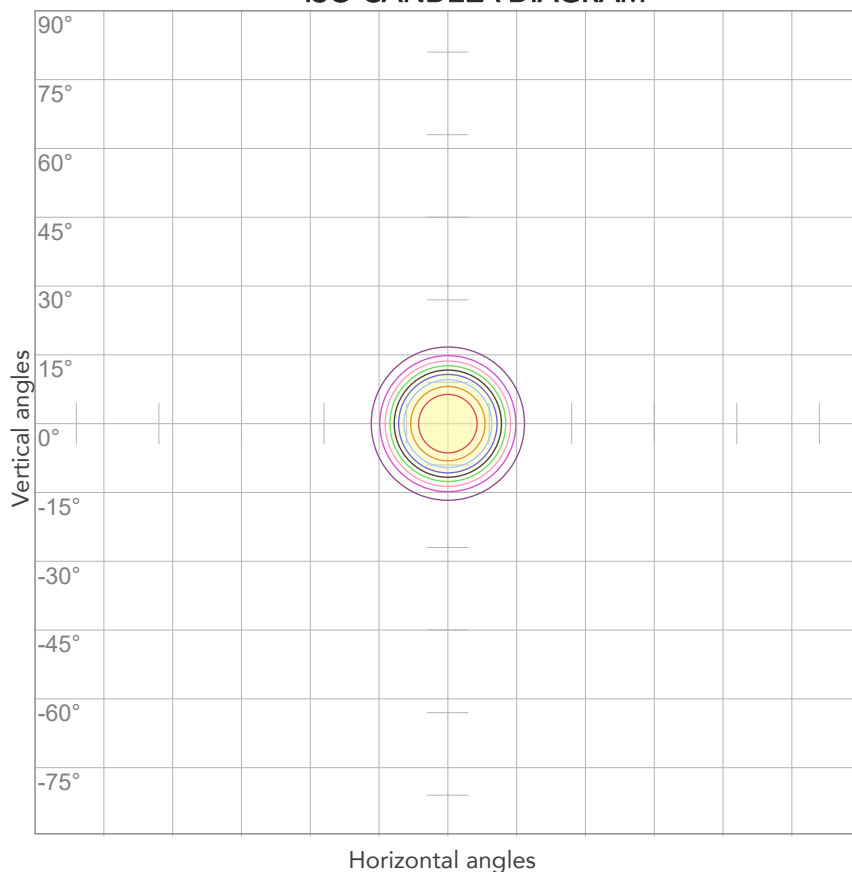
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,158A	34,3W	0,96	33lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



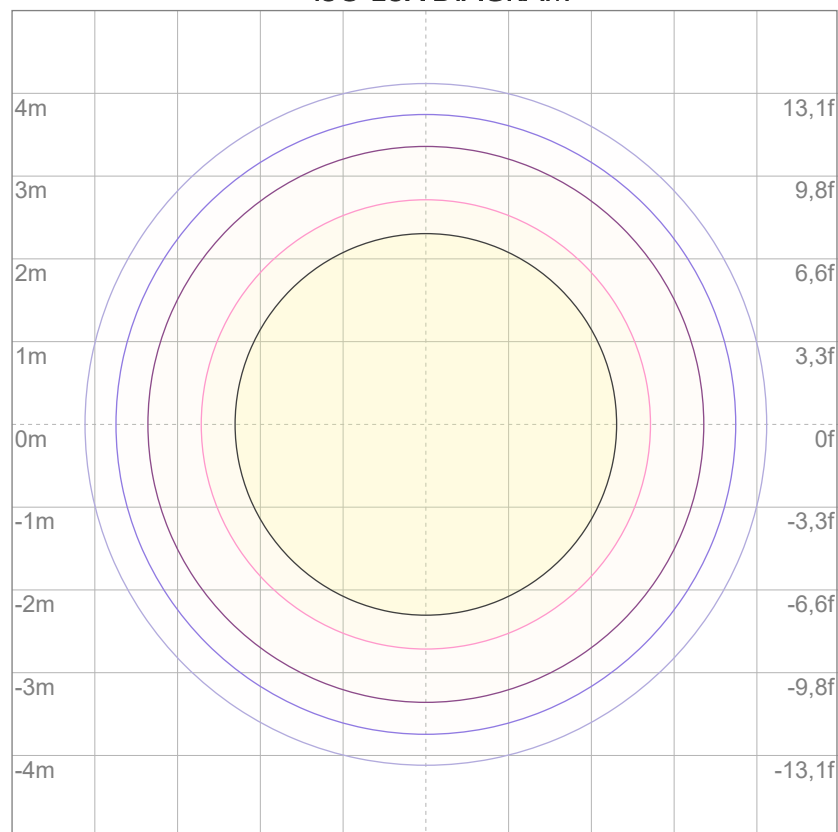
10%	585 cd
20%	1169 cd
30%	1754 cd
40%	2339 cd
50%	2924 cd
60%	3508 cd
70%	4093 cd
80%	4678 cd

### Conditions:

Number of c-planes: 2

Candela at center: 5847 cd

## ISO LUX DIAGRAM



3%	1,75 lx
5%	2,92 lx
10%	5,85 lx
30%	17,5 lx
50%	29,2 lx

### Conditions:

Number of c-planes: 2

Lux at center: 58,5 lx

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