

# Photometric Test Report



## EclDisplay CRMXWhite

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

(ECLDISPLAYCRMX56K)

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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:

1305 lm

Peak candela output:

100961 cd

Light quality:

CRI: 96,5

Color temperature:

5502 K

**PRODUCT NAME:**

ECLDISPLAYCRMX56K

**MEASURAMENT CONDITIONS:**

Beam angle:

Profile 8°

Target:

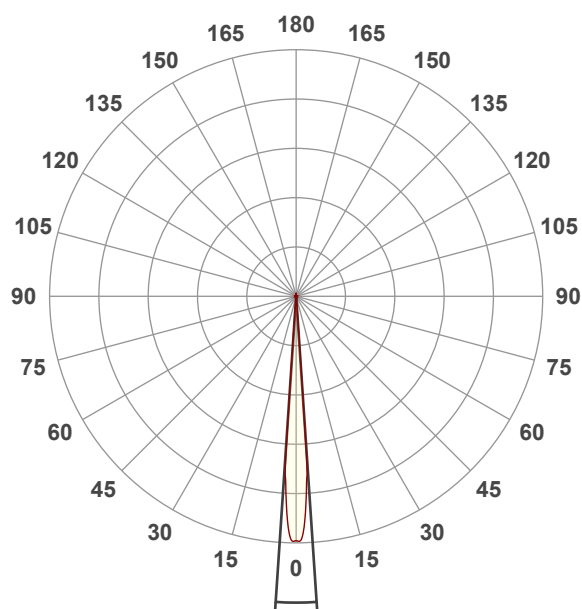
Full On

Operator:

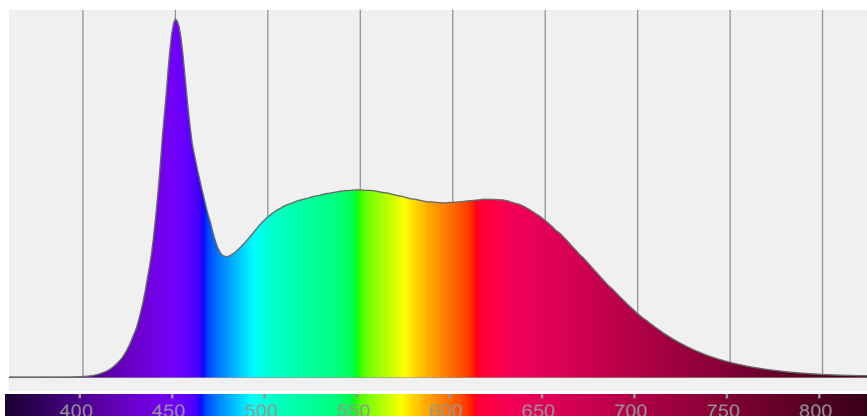
Giacomo Matteo

Date and time:

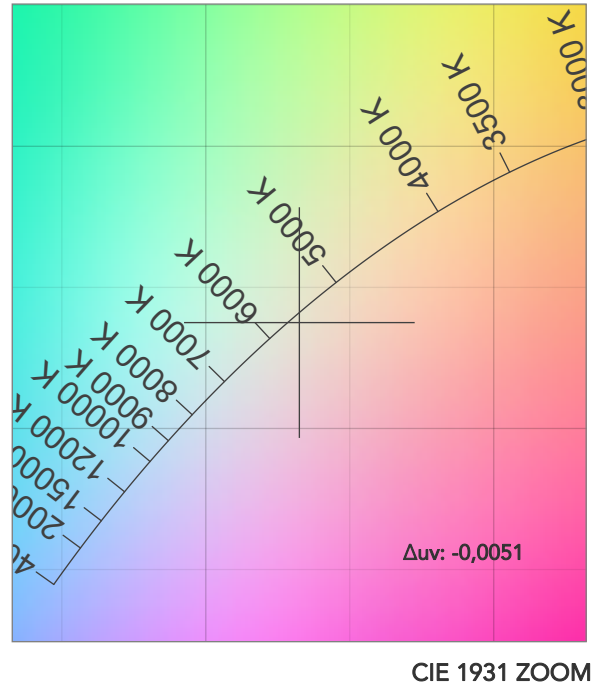
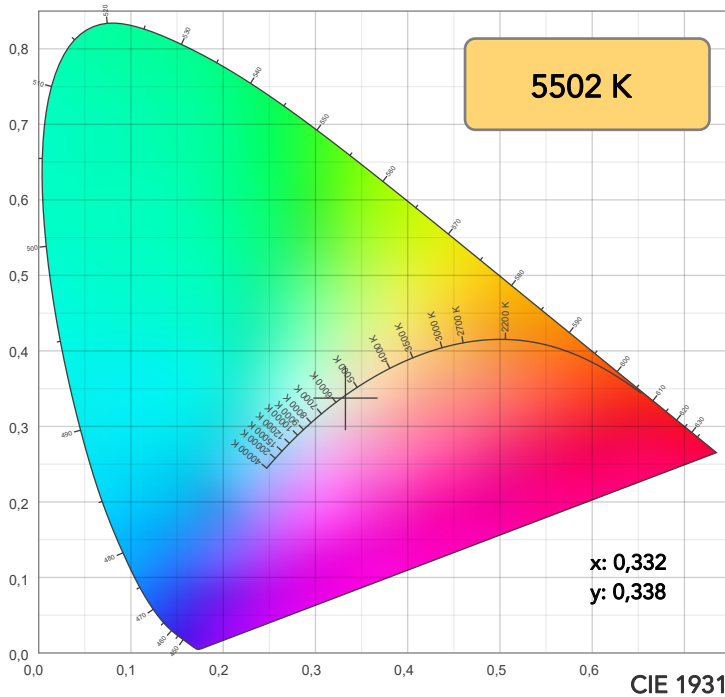
18/06/2024 14:27:47



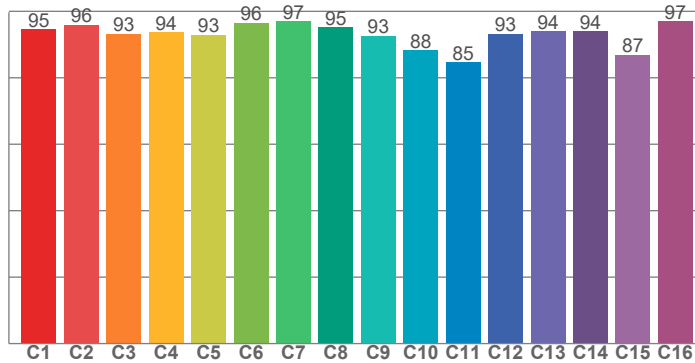
**Spectra**



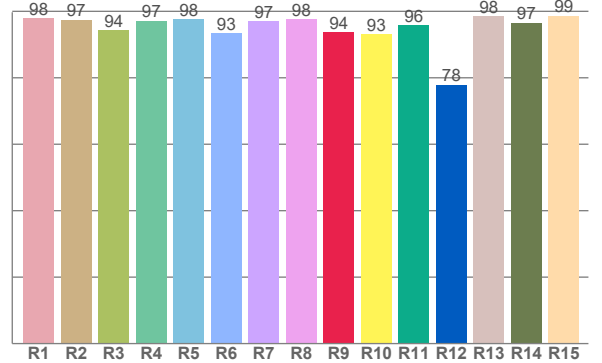
## COLOR DETAILS



TM30: 92,9



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
97,8	97,5	94,3	97,1	97,6	93,3	97,1	97,7	93,7	93,1	95,8	77,9	98,5	96,6	98,7

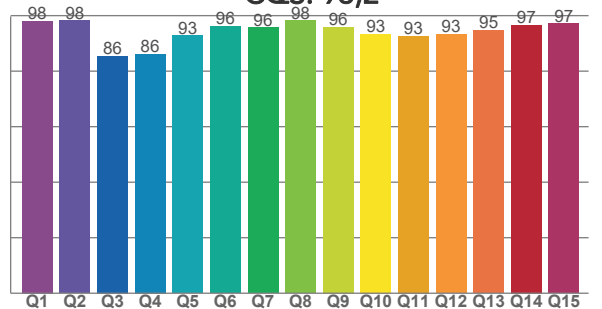
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	95,9	93,3	93,7	92,9	96,5	97,0	95,2	92,7	88,2	84,6	93,2	93,9	93,9	87,0	97,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,0	98,2	85,5	86,2	92,8	96,2	95,7	98,2	96,0	93,4	92,6	93,3	94,7	96,6	97,2

CQS: 93,2



## 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	$\Delta uv$
5502 K	96,5	93,7	92,9	101,6	93,2	98	0,332	0,338	-0,0051

## TM30 DETAILS

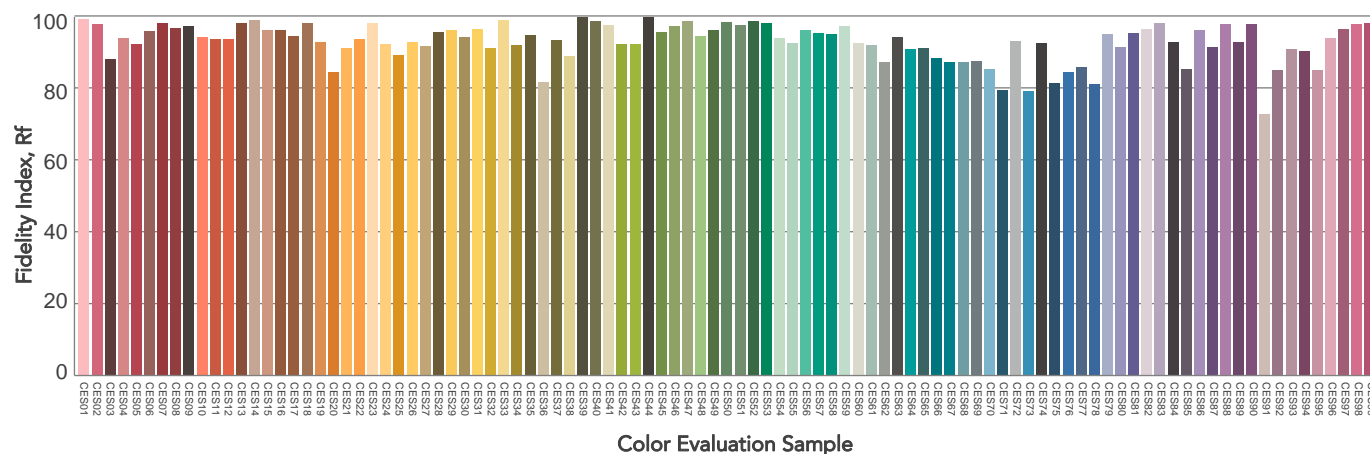
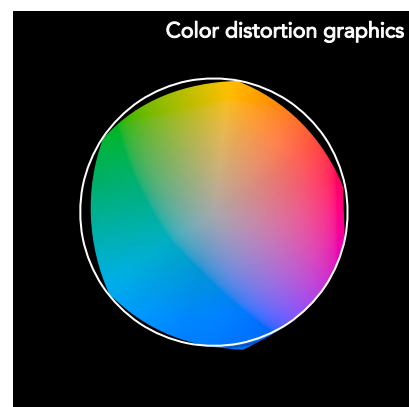
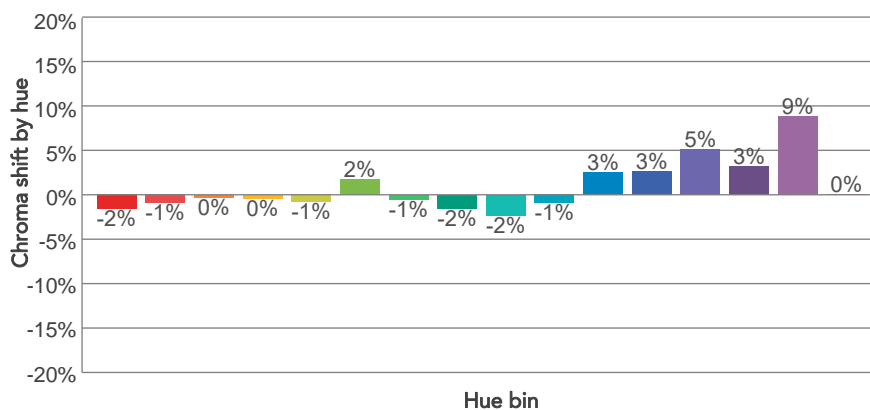
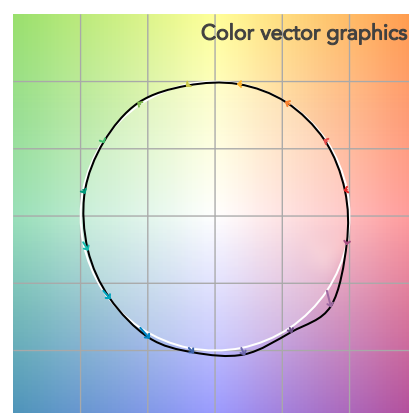
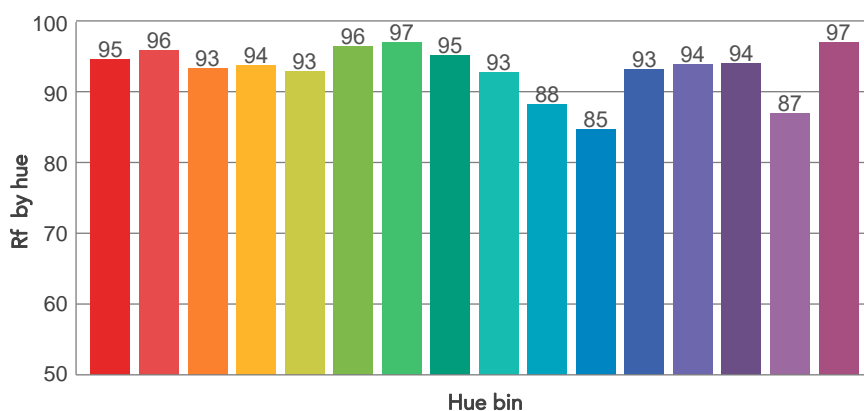
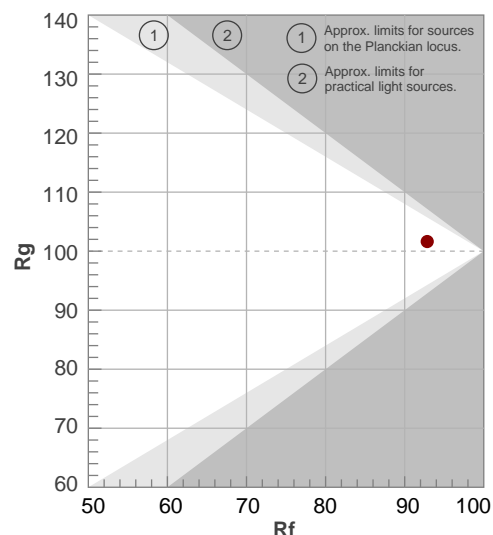
**Rf 92,9**

Fidelity index Rf

**Rg 101,6**

Gammut index

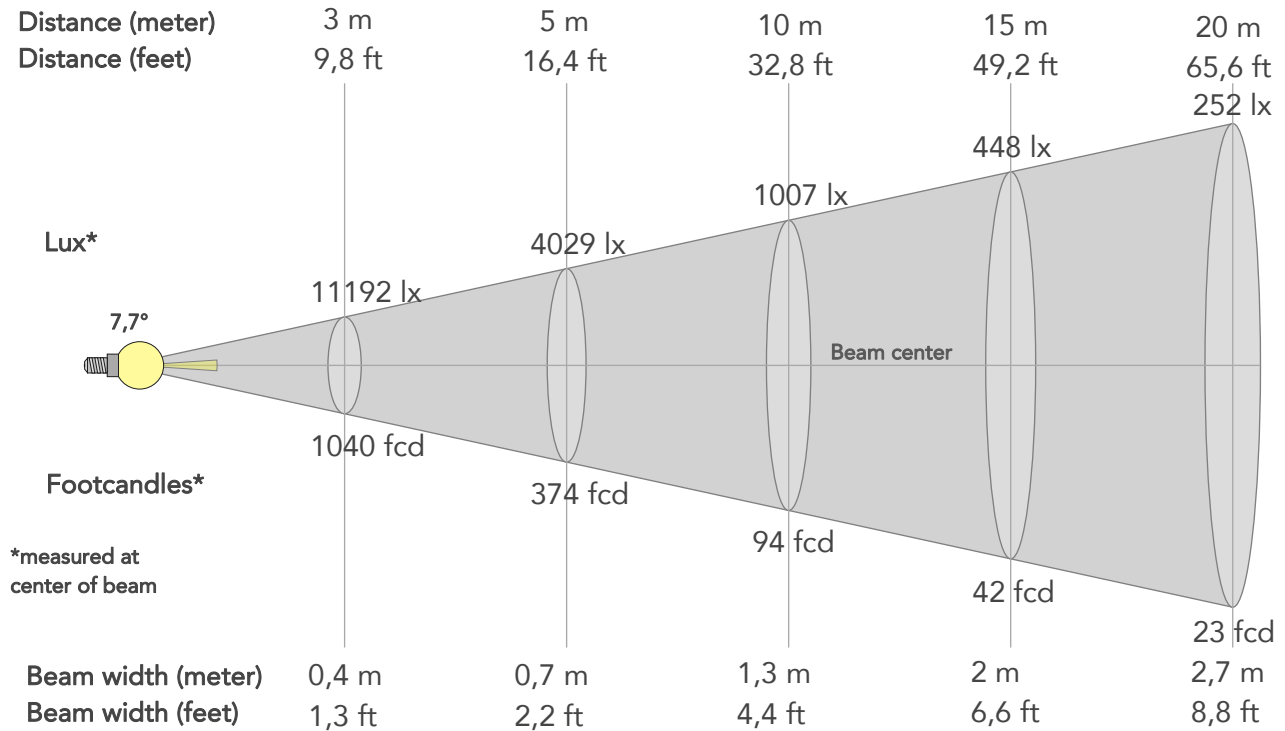
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	96	-1%	2%
3	93	0%	3%
4	94	0%	2%
5	93	-1%	2%
6	96	2%	1%
7	97	-1%	0%
8	95	-2%	2%
9	93	-2%	6%
10	88	-1%	7%
11	85	3%	9%
12	93	3%	4%
13	94	5%	1%
14	94	3%	-1%
15	87	9%	-8%
16	97	0%	-1%



# BEAM DETAILS



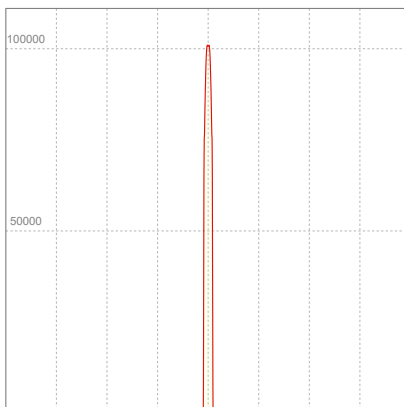
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
7,7°	8,4°	9°	99,2%	98,8%



## 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	100729lx	25182lx	11192lx	6296lx	4029lx	1791lx	1007lx	448lx	252lx	161lx	112lx	63lx	40lx
Footcand.	9358fcd	2340fcd	1040fcd	585fcd	374fcd	166fcd	94fcd	42fcd	23fcd	15fcd	10fcd	6fcd	4fcd
Beam wid.	0,1m	0,3m	0,4m	0,5m	0,7m	1m	1,3m	2m	2,7m	3,4m	4m	5,4m	6,7m
Beam wid.	0,4ft	0,9ft	1,3ft	1,8ft	2,2ft	3,3ft	4,4ft	6,6ft	8,8ft	11ft	13,2ft	17,6ft	22ft

## LINEAR DISTRIBUTION DIAGRAM

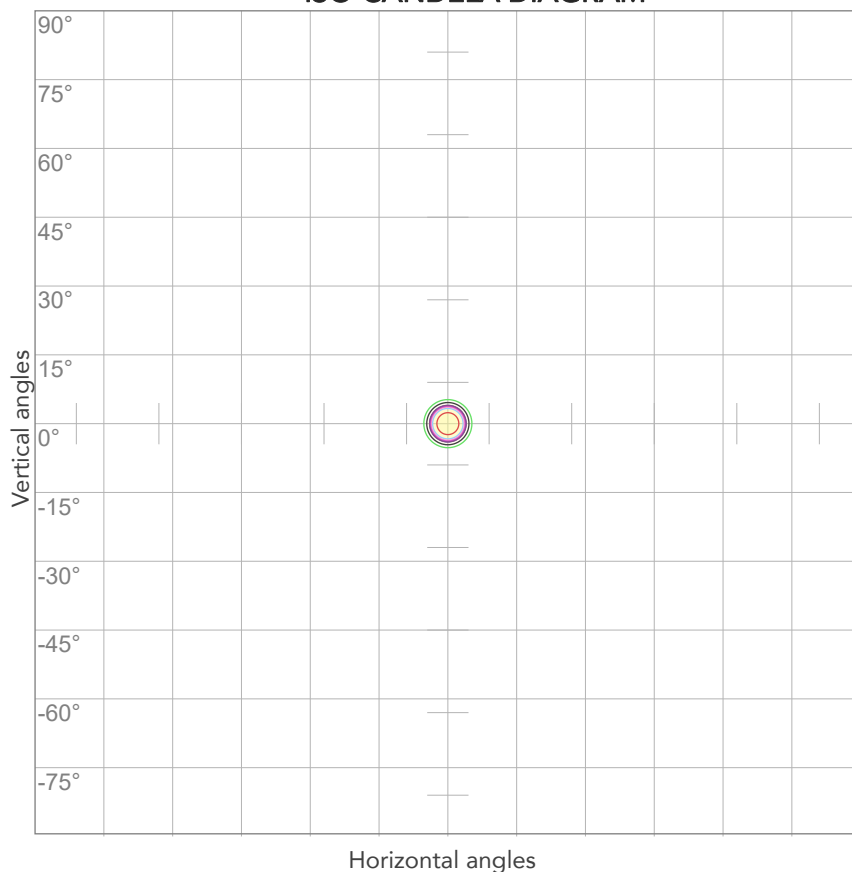


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,154A	33,3W	0,95	39lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



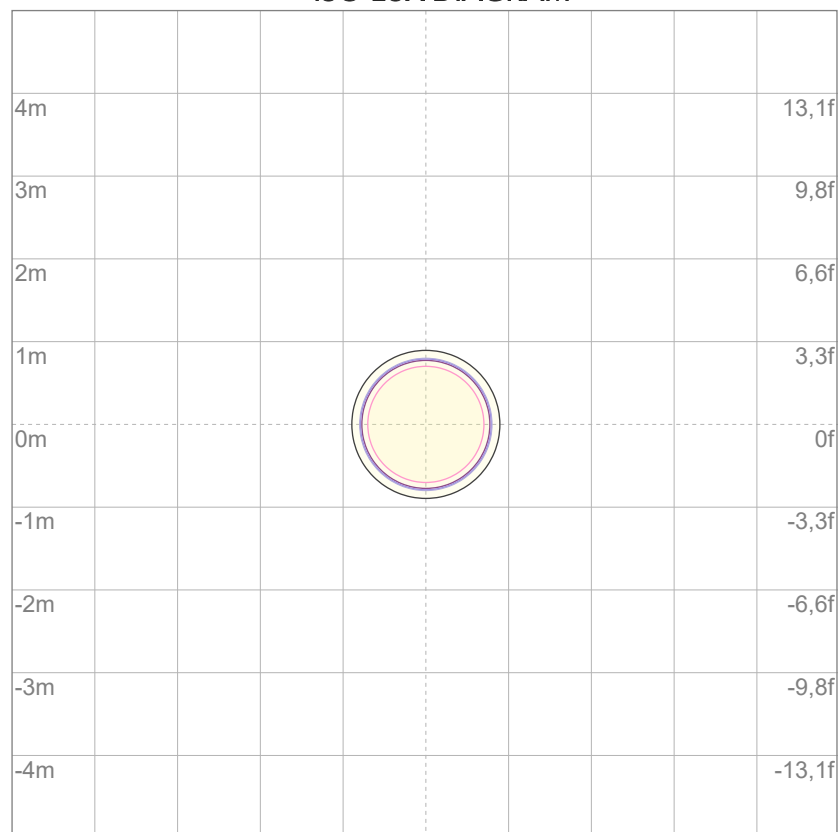
10%	10073 cd
20%	20146 cd
30%	30219 cd
40%	40292 cd
50%	50365 cd
60%	60437 cd
70%	70510 cd
80%	80583 cd

### Conditions:

Number of c-planes: 2

Candela at center: 100729 cd

## ISO LUX DIAGRAM



3%	30,2 lx
5%	50,4 lx
10%	101 lx
30%	302 lx
50%	504 lx

### Conditions:

Number of c-planes: 2

Lux at center: 1007 lx

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





Total lumen output:

1622 lm

Peak candela output:

26844 cd

Light quality:

CRI: 96,6

Color temperature:

5356 K

PRODUCT NAME:

ECLDISPLAYCRMX56K

MEASURAMENT CONDITIONS:

Beam angle:

Profile 18°

Target:

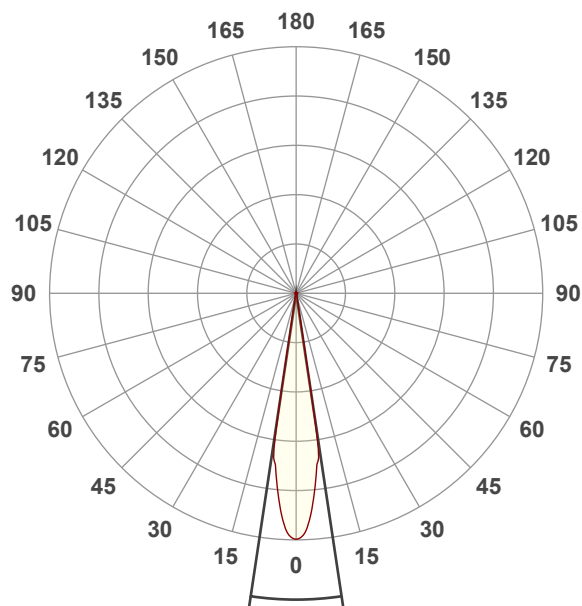
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 14:30:28

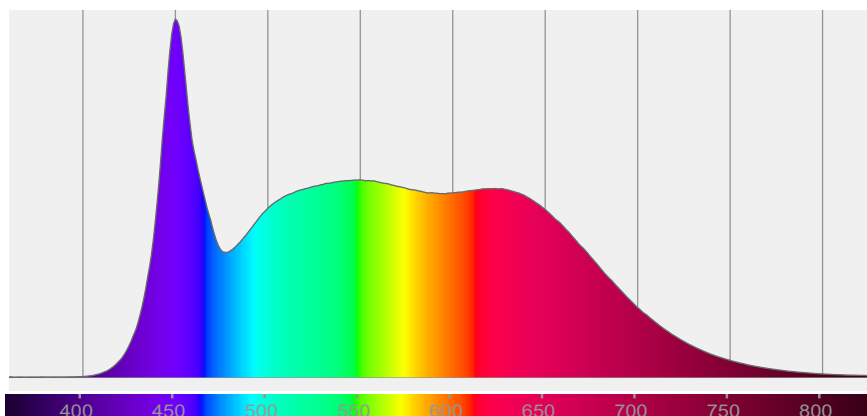


Beam angle 50%: 17,1°

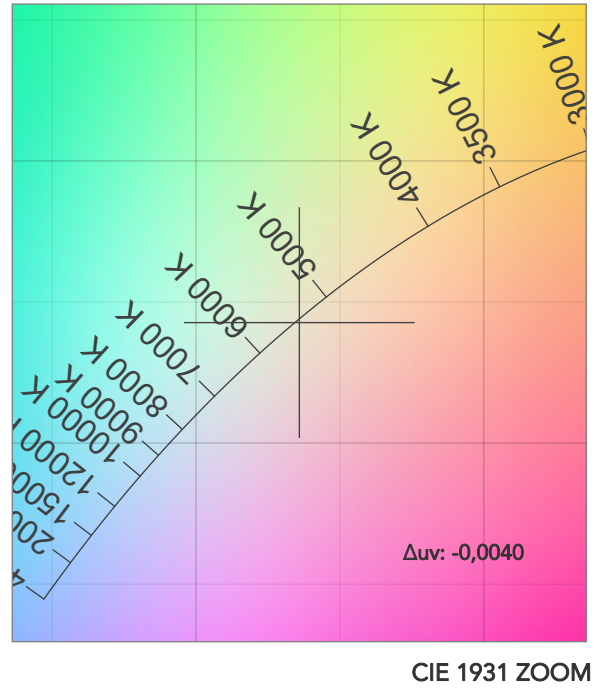
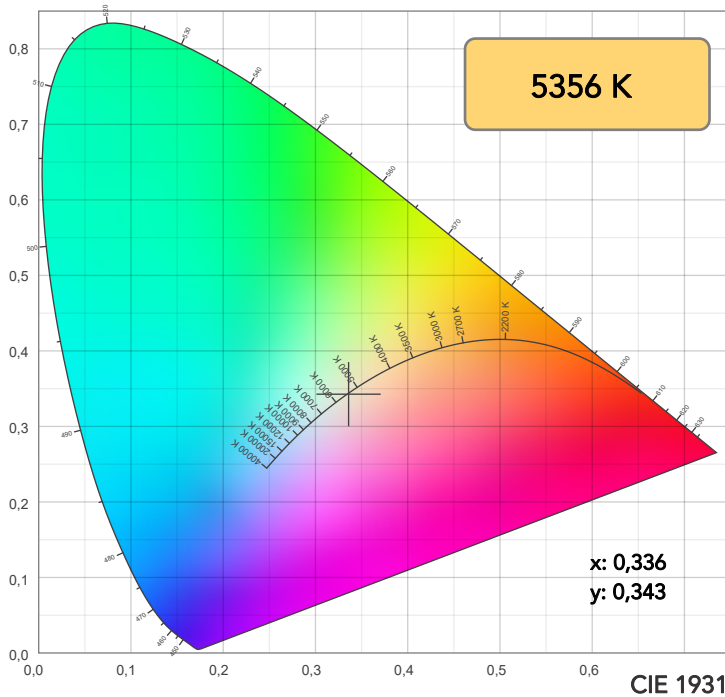
Field angle 10%: 19,2°

Cut off angle 2.5%: 21°

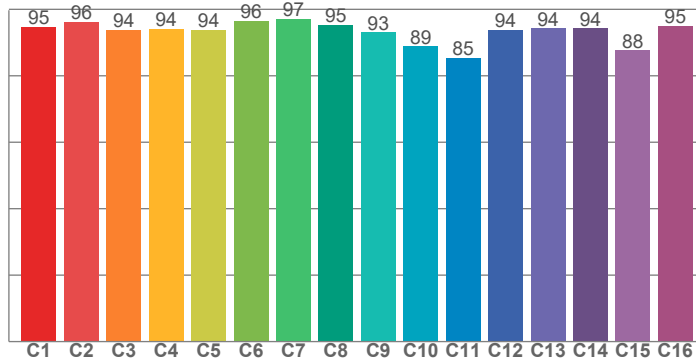
Spectra



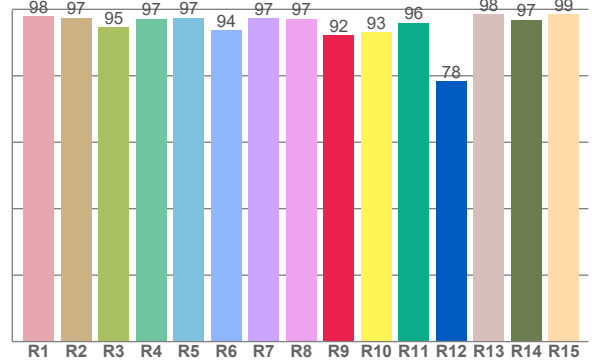
# COLOR DETAILS



TM30: 93,2



CRI: 96,6 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,9	97,5	94,7	97,2	97,4	93,7	97,2	97,2	92,3	93,1	96,0	78,3	98,4	96,9	98,5

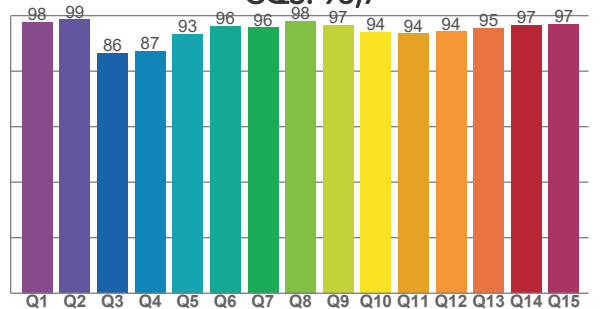
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	96,3	93,7	94,1	93,9	96,5	97,1	95,4	93,0	88,9	85,5	93,8	94,3	94,3	87,6	95,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,7	98,5	86,5	87,3	93,4	96,2	95,7	98,1	96,5	94,1	93,5	94,2	95,5	96,5	97,0

CQS: 93,7



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
5356 K	96,6	92,3	93,2	101,4	93,7	98	0,336	0,343	-0,0040

## TM30 DETAILS

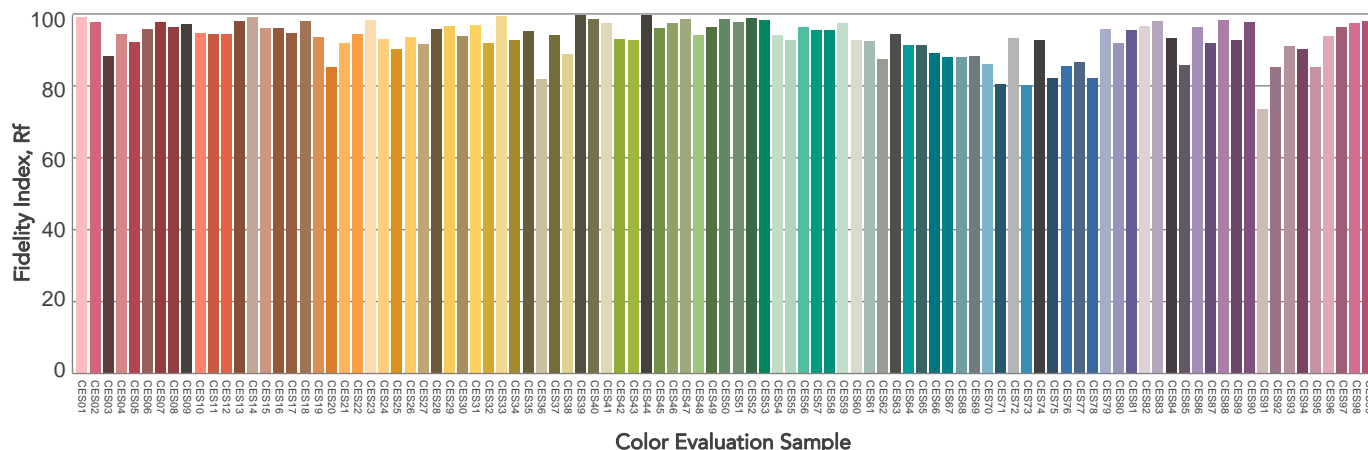
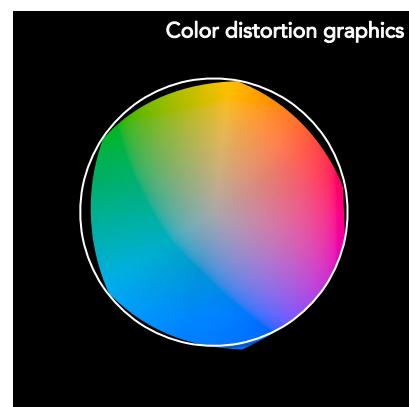
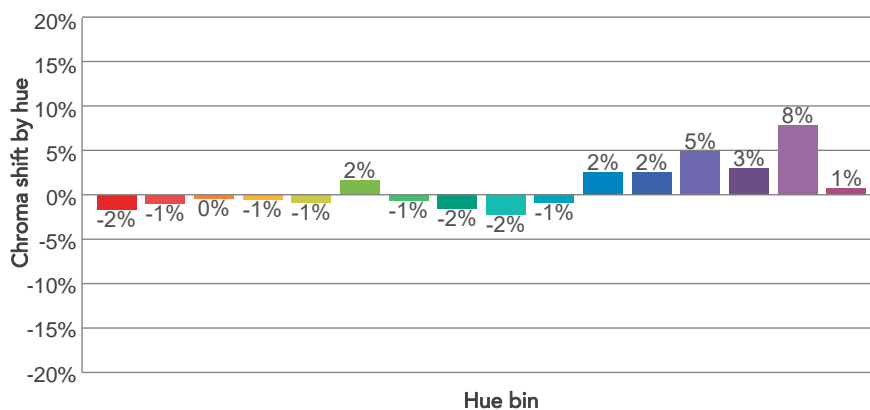
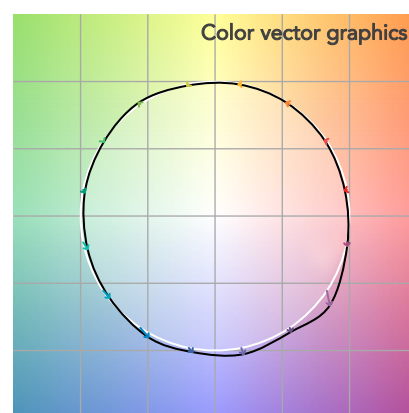
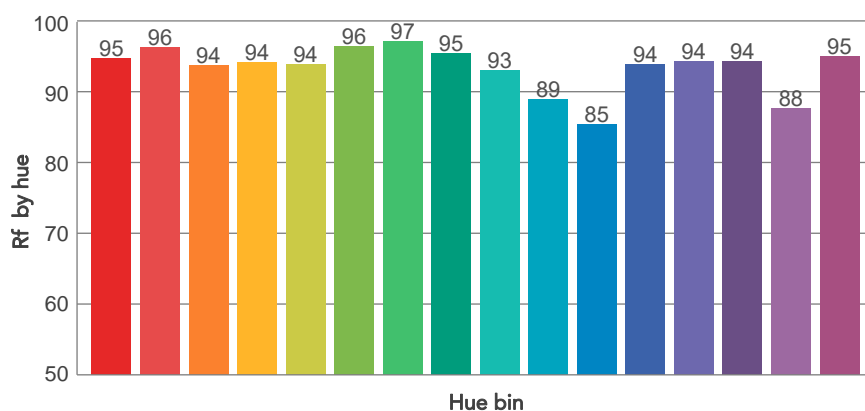
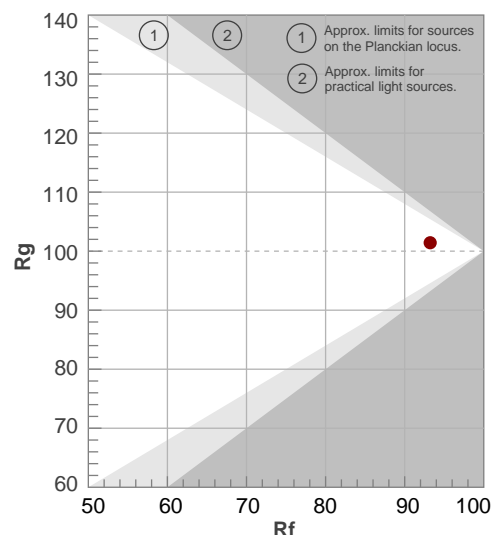
**Rf 93,2**

Fidelity index Rf

**Rg 101,4**

Gammut index

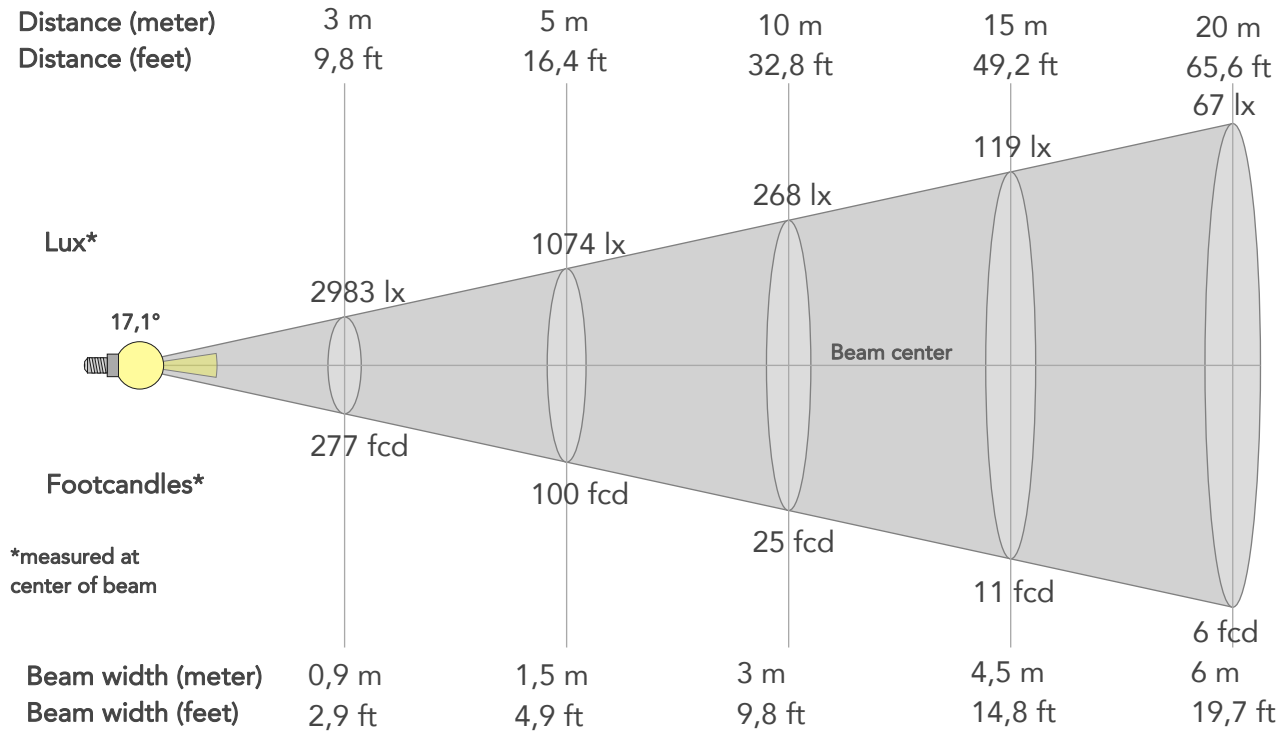
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	96	-1%	1%
3	94	0%	3%
4	94	-1%	2%
5	94	-1%	1%
6	96	2%	0%
7	97	-1%	0%
8	95	-2%	2%
9	93	-2%	6%
10	89	-1%	7%
11	85	2%	9%
12	94	2%	3%
13	94	5%	1%
14	94	3%	-1%
15	88	8%	-8%
16	95	1%	-3%



# BEAM DETAILS



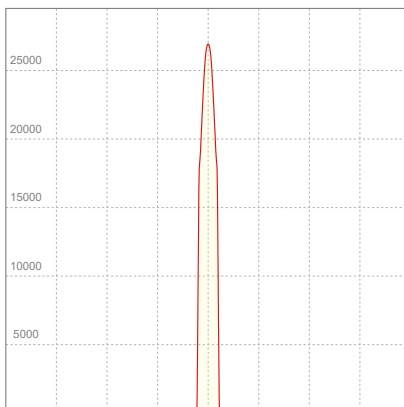
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,1°	19,2°	21°	99,6%	99,4%



## 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	26844lx	6711lx	2983lx	1678lx	1074lx	477lx	268lx	119lx	67lx	43lx	30lx	17lx	11lx
Footcand.	2494fcd	623fcd	277fcd	156fcd	100fcd	44fcd	25fcd	11fcd	6fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,2m	3m	4,5m	6m	7,5m	9m	12m	15m
Beam wid.	1ft	2ft	2,9ft	3,9ft	4,9ft	7,4ft	9,8ft	14,8ft	19,7ft	24,6ft	29,5ft	39,4ft	49,2ft

## LINEAR DISTRIBUTION DIAGRAM

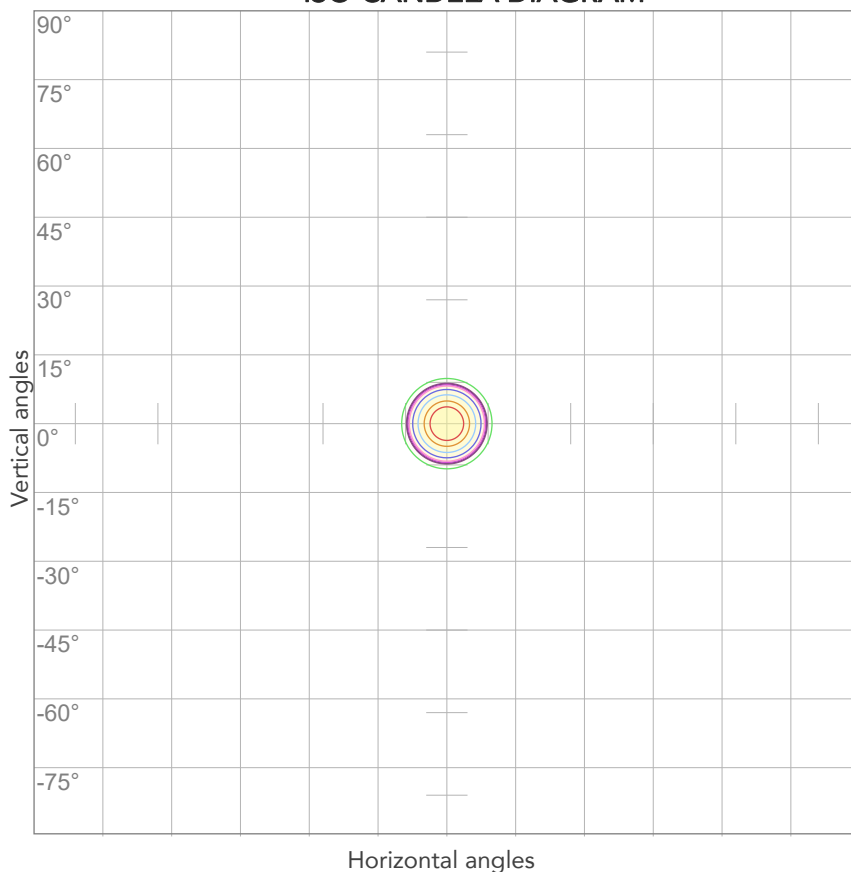


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,154A	33,3W	0,95	49lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



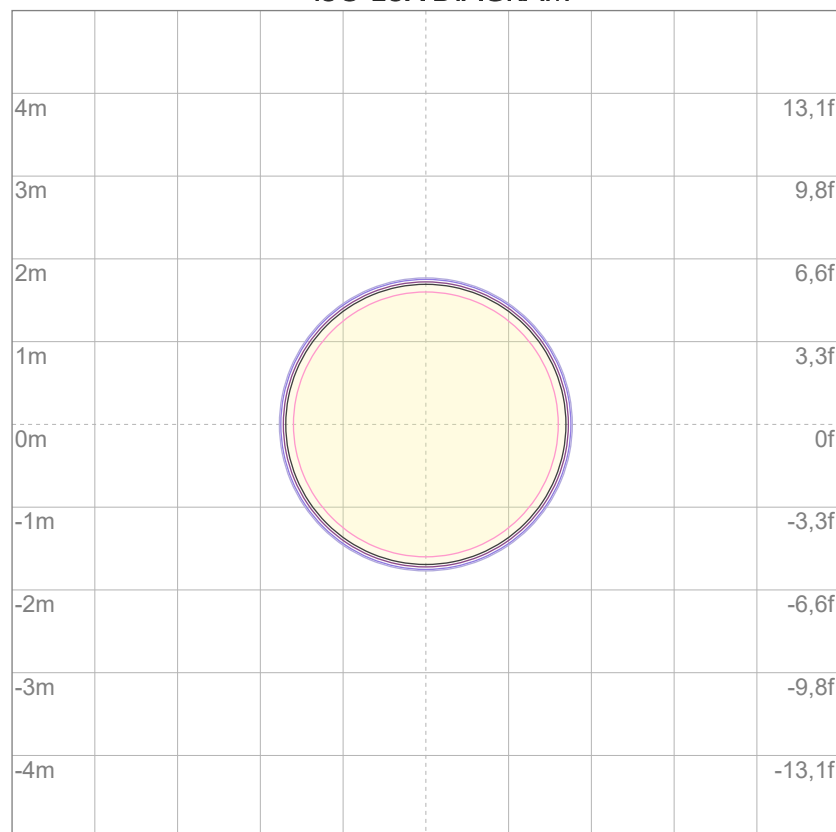
10%	2684 cd
20%	5369 cd
30%	8053 cd
40%	10738 cd
50%	13422 cd
60%	16106 cd
70%	18791 cd
80%	21475 cd

### Conditions:

Number of c-planes: 2

Candela at center: 26844 cd

## ISO LUX DIAGRAM



3%	8,05 lx
5%	13,4 lx
10%	26,8 lx
30%	80,5 lx
50%	134 lx

### Conditions:

Number of c-planes: 2

Lux at center: 268 lx

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



Total lumen output:

1594 lm

Peak candela output:

7080 cd

Light quality:

CRI: 96,5

Color temperature:

5229 K

PRODUCT NAME:

ECLDISPLAYCRMX56K

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36°

Target:

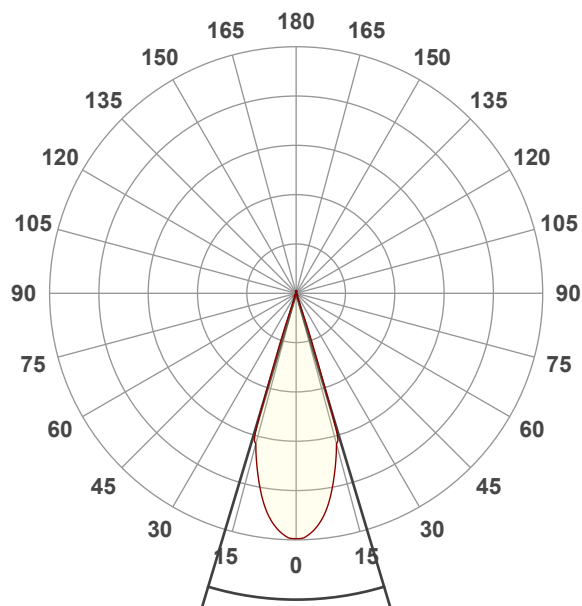
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 14:34:48

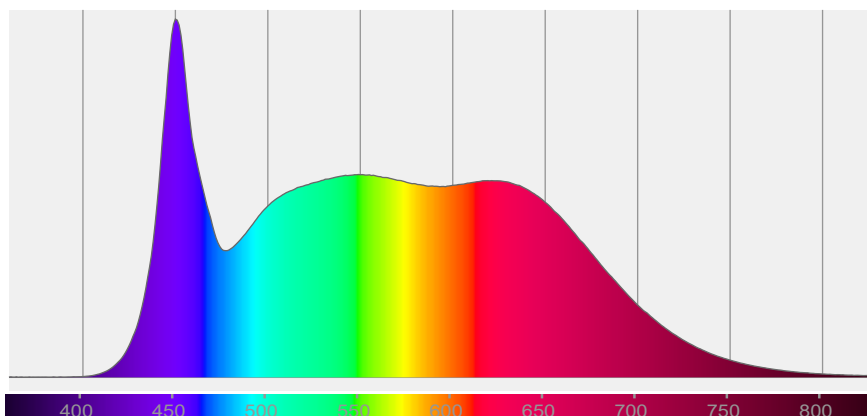


Beam angle 50%: 33,4°

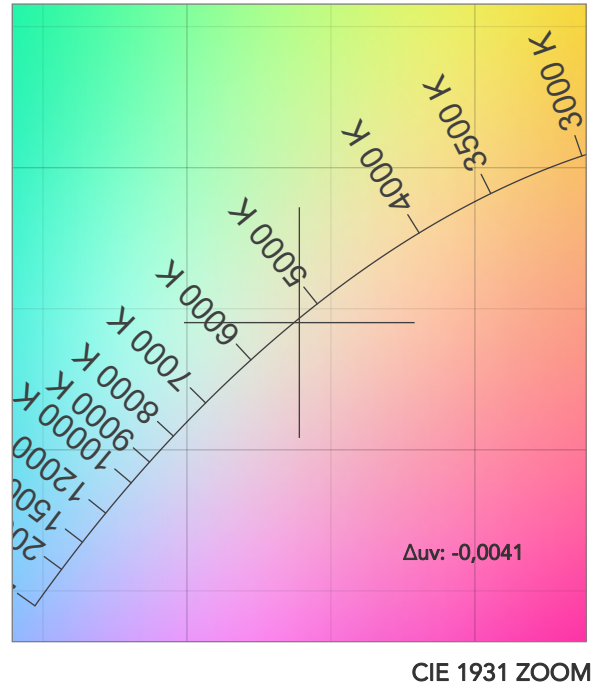
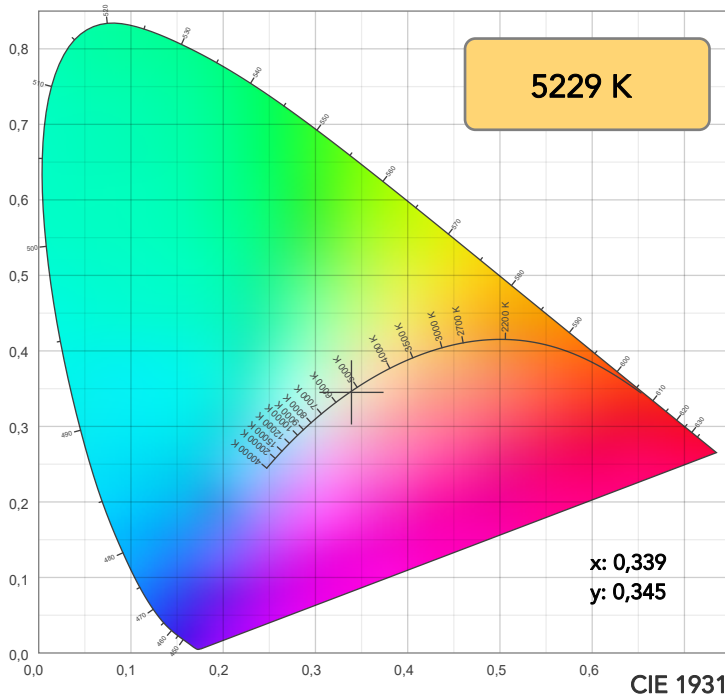
Field angle 10%: 37,4°

Cut off angle 2.5%: 38,5°

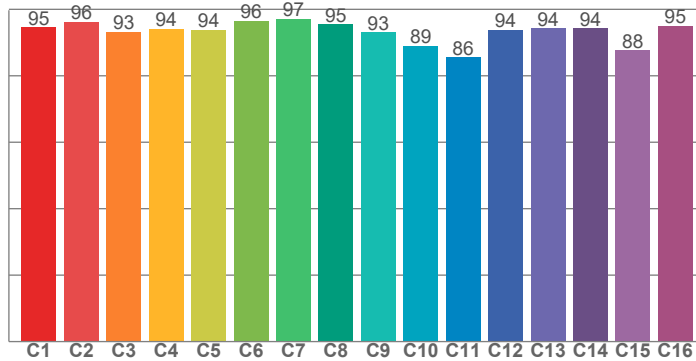
Spectra



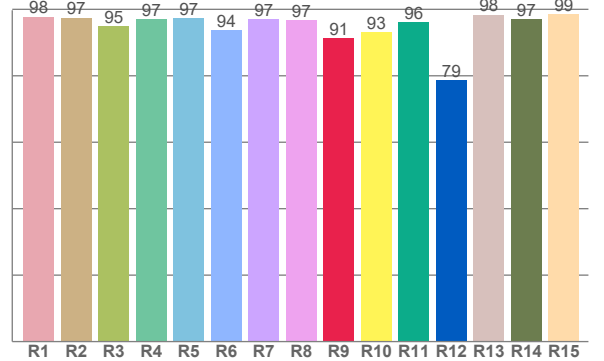
# COLOR DETAILS



TM30: 93,2



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
97,8	97,5	94,8	97,1	97,4	93,8	97,1	96,8	91,2	93,1	96,0	78,6	98,3	96,9	98,5

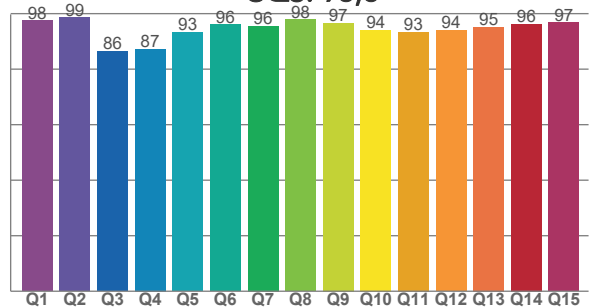
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	96,2	93,2	94,1	93,9	96,5	97,2	95,4	93,1	88,9	85,6	93,9	94,2	94,2	87,7	95,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,5	98,6	86,4	87,3	93,3	96,1	95,5	97,9	96,6	94,0	93,4	94,0	95,2	96,2	96,8

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	$\Delta uv$
5229 K	96,5	91,2	93,2	101,4	93,6	98	0,339	0,345	-0,0041

## TM30 DETAILS

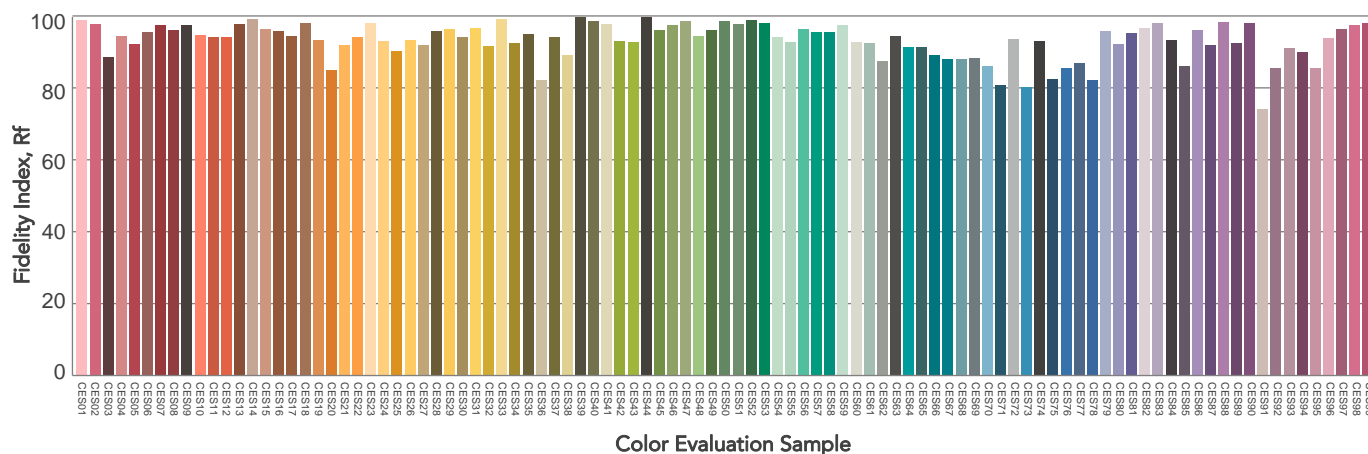
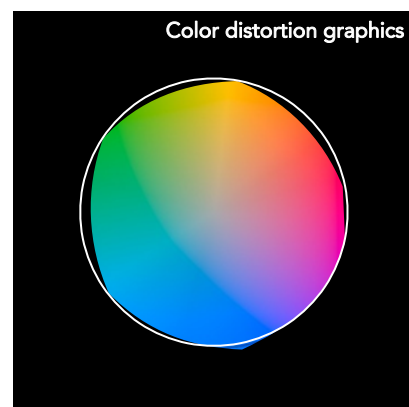
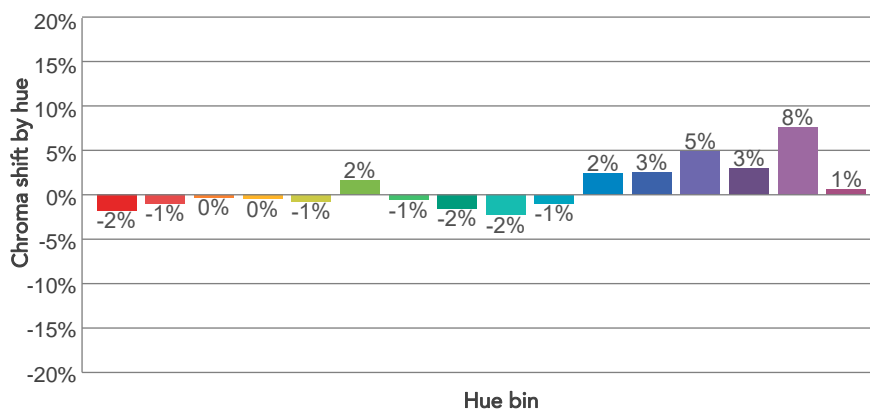
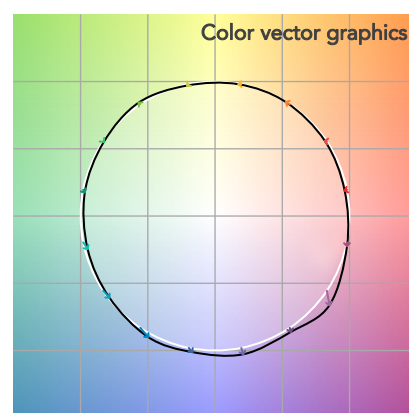
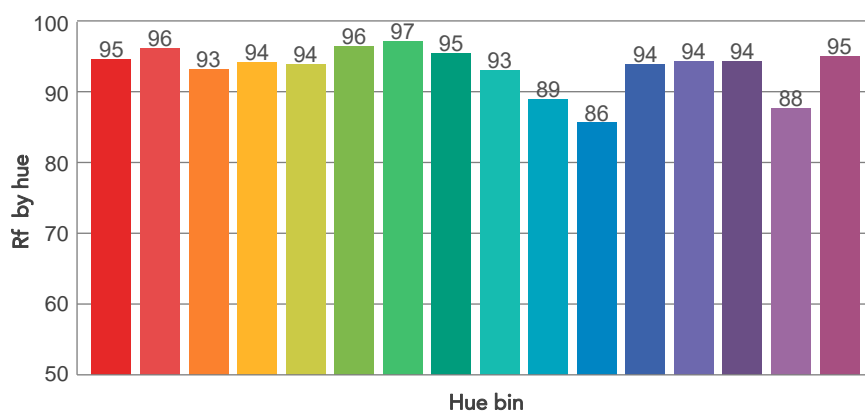
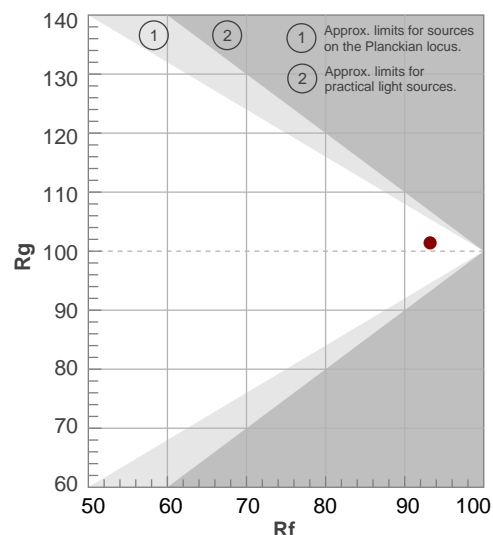
**Rf 93,2**

Fidelity index Rf

**Rg 101,4**

Gammut index

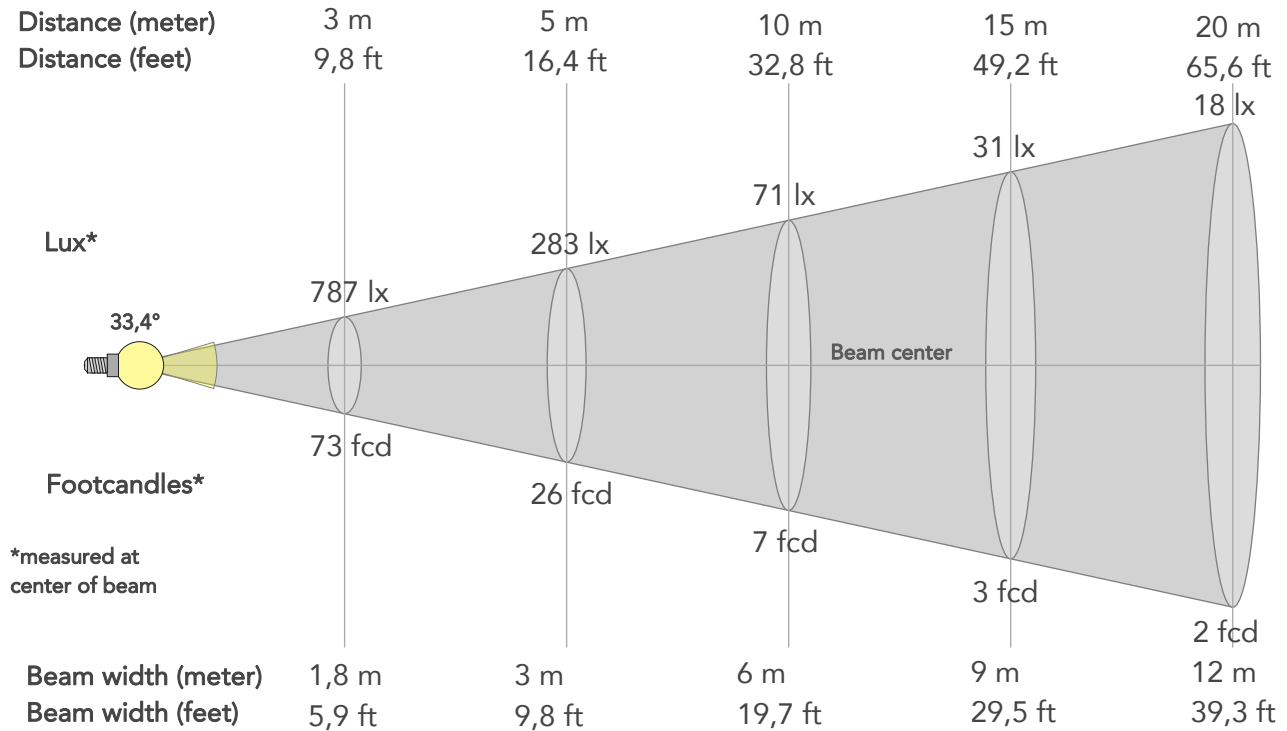
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	96	-1%	1%
3	93	0%	3%
4	94	0%	2%
5	94	-1%	1%
6	96	2%	0%
7	97	-1%	0%
8	95	-2%	2%
9	93	-2%	6%
10	89	-1%	7%
11	86	2%	9%
12	94	3%	3%
13	94	5%	1%
14	94	3%	-1%
15	88	8%	-8%
16	95	1%	-3%





# BEAM DETAILS

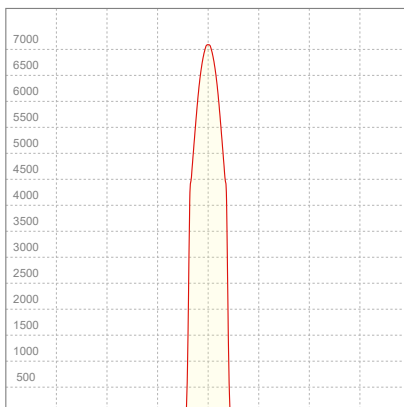
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
33,4°	37,4°	38,5°	99,7%	99,7%



## 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	7080lx	1770lx	787lx	443lx	283lx	126lx	71lx	31lx	18lx	11lx	8lx	4lx	3lx
Footcand.	658fcd	164fcd	73fcd	41fcd	26fcd	12fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	3m	4,5m	6m	9m	12m	15m	18m	24m	30m
Beam wid.	2ft	4ft	5,9ft	7,9ft	9,8ft	14,8ft	19,7ft	29,5ft	39,3ft	49,2ft	59ft	78,7ft	98,3ft

## LINEAR DISTRIBUTION DIAGRAM

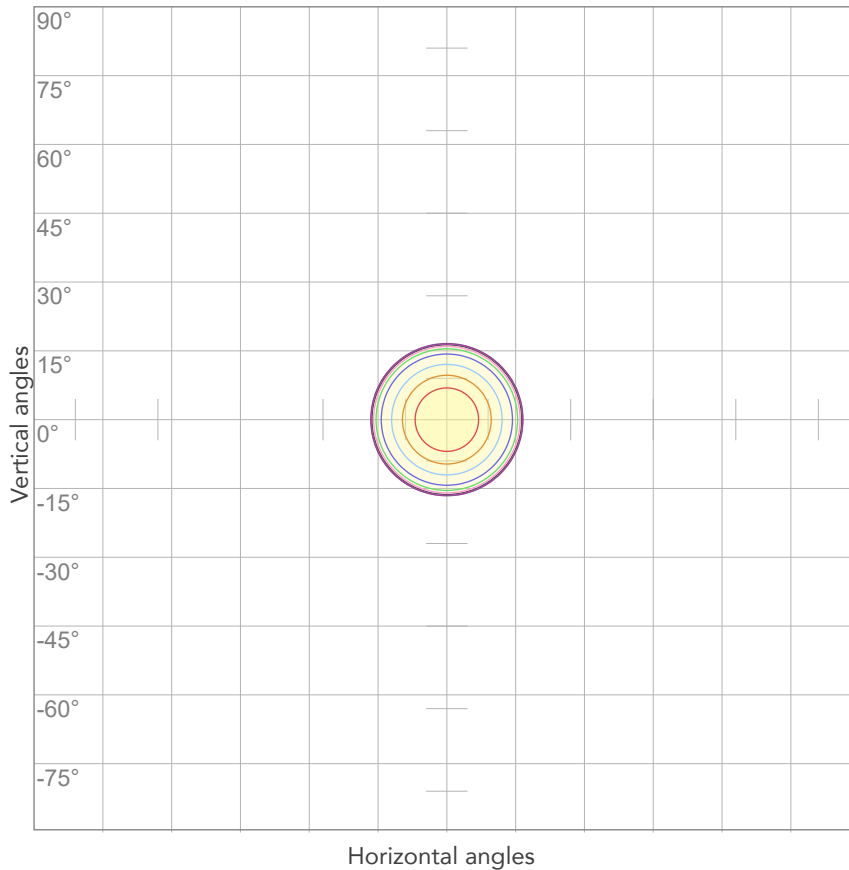


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,154A	33,2W	0,95	48lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



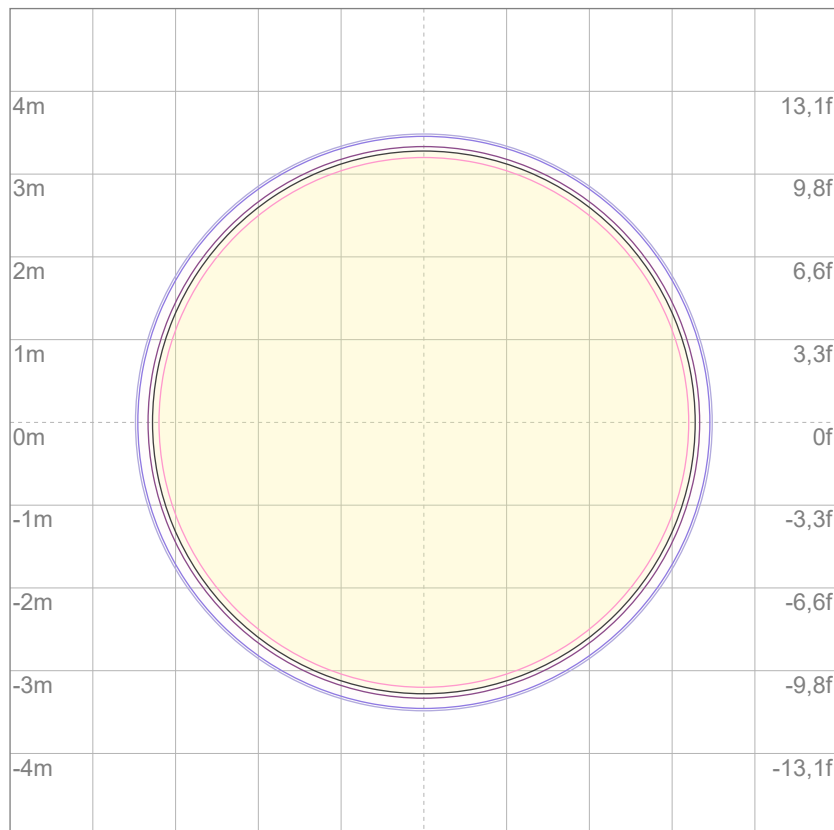
10%	708 cd
20%	1416 cd
30%	2124 cd
40%	2832 cd
50%	3540 cd
60%	4248 cd
70%	4956 cd
80%	5664 cd

### Conditions:

Number of c-planes: 2

Candela at center: 7080 cd

## ISO LUX DIAGRAM



3%	2,12 lx
5%	3,54 lx
10%	7,08 lx
30%	21,2 lx
50%	35,4 lx

### Conditions:

Number of c-planes: 2

Lux at center: 70,8 lx

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



Total lumen output:

1600 lm

Peak candela output:

3040 cd

Light quality:

CRI: 96,4

Color temperature:

5037 K

**PRODUCT NAME:**

ECLDISPLAYCRMX56K

**MEASURAMENT CONDITIONS:**

Beam angle:

Profile 50°

Target:

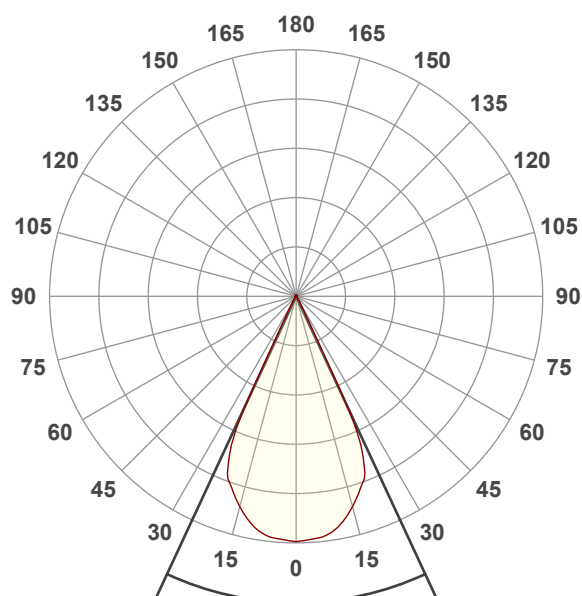
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 14:37:35

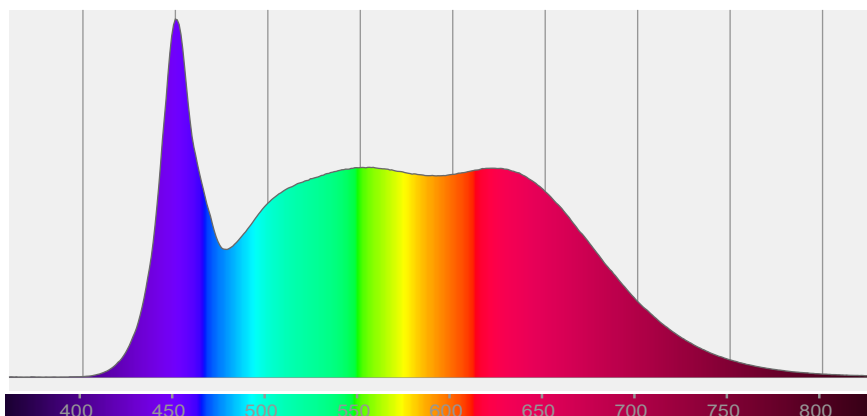


Beam angle 50%: 49,9°

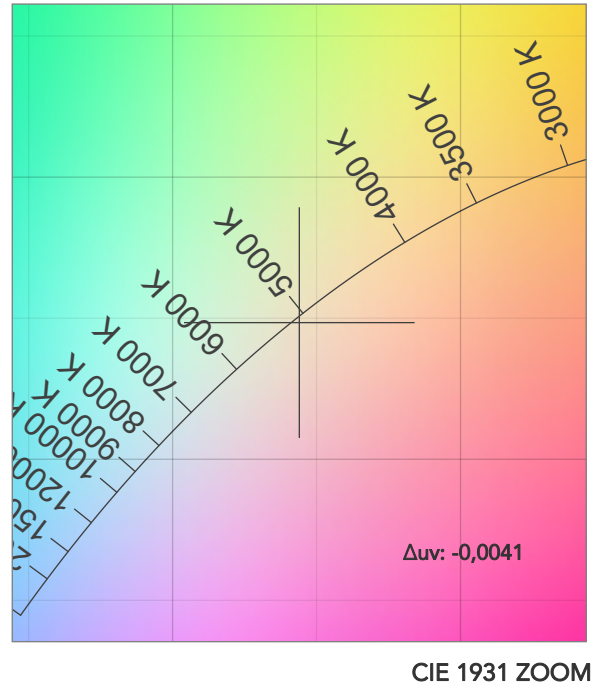
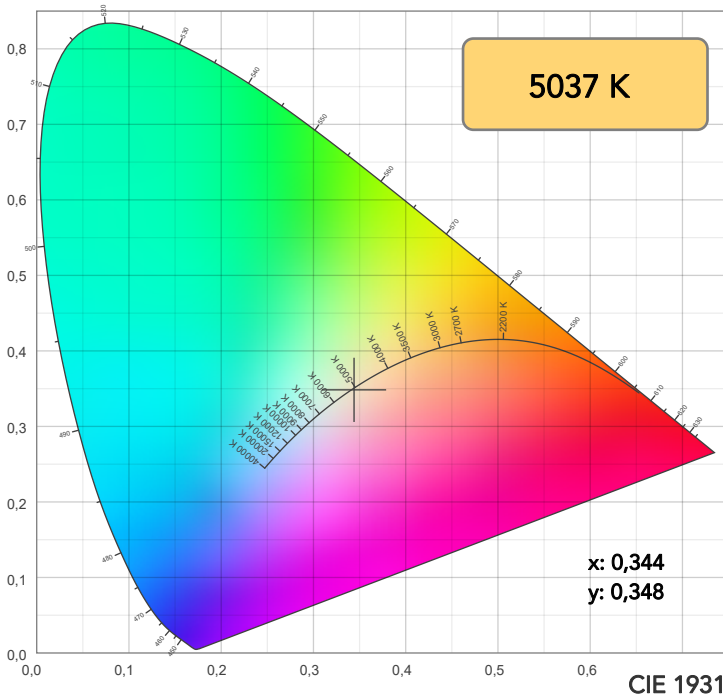
Field angle 10%: 54,9°

Cut off angle 2.5%: 59,2°

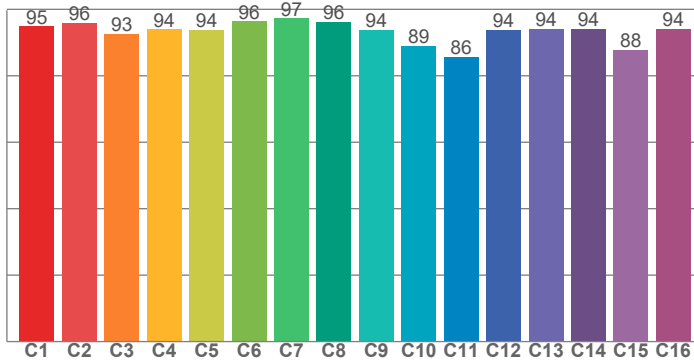
**Spectra**



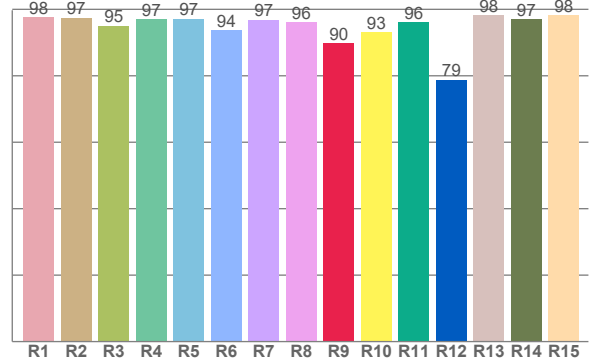
# COLOR DETAILS



TM30: 93,2



CRI: 96,4 (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
97,6	97,5	95,0	97,0	97,2	93,8	96,9	96,1	89,7	93,1	96,1	78,8	98,2	97,0	98,3

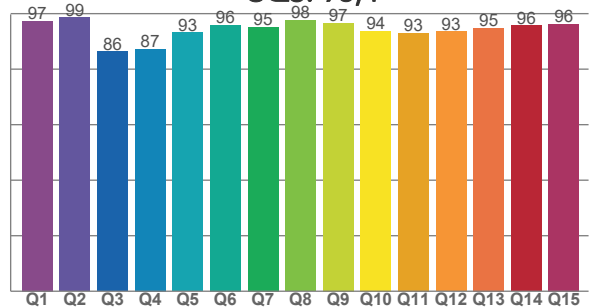
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,9	96,0	92,7	94,0	93,8	96,4	97,2	96,2	93,8	89,0	85,7	93,9	94,1	94,1	87,9	94,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,3	98,5	86,3	87,2	93,2	95,9	95,1	97,6	96,7	93,8	93,0	93,5	94,7	95,7	96,3

CQS: 93,4



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5037 K	96,4	89,7	93,2	101,6	93,4	98	0,344	0,348	-0,0041

## TM30 DETAILS

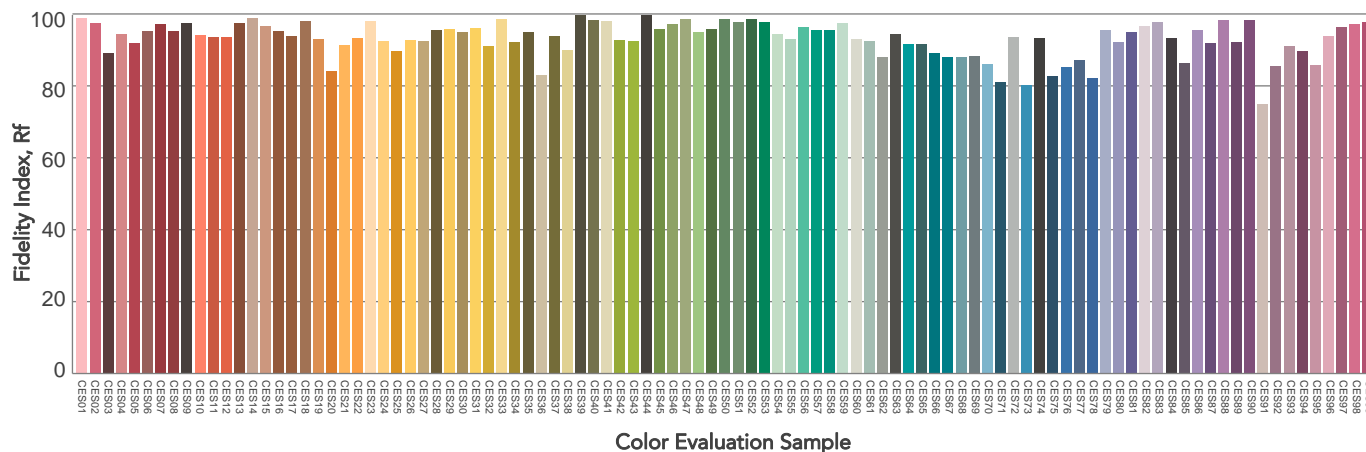
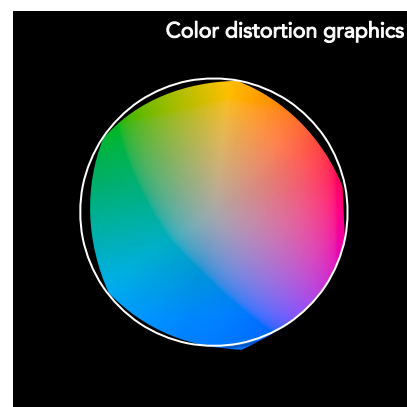
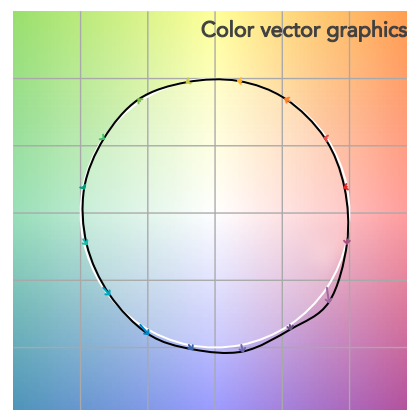
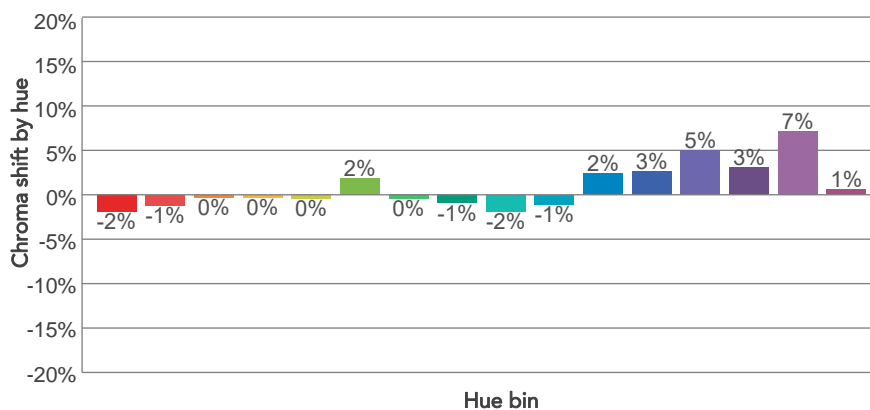
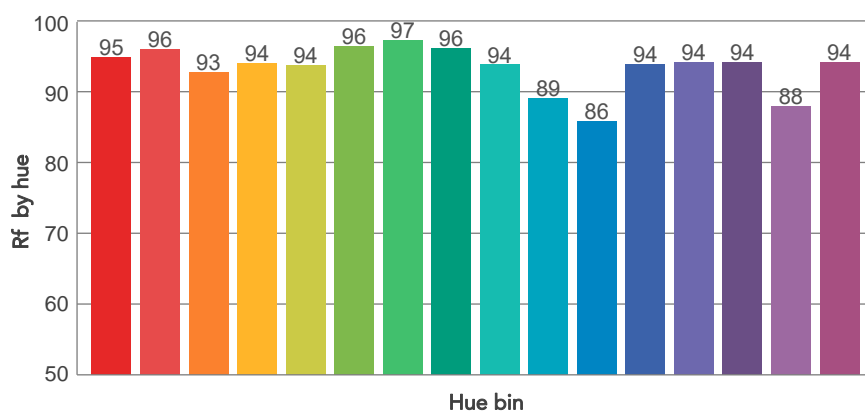
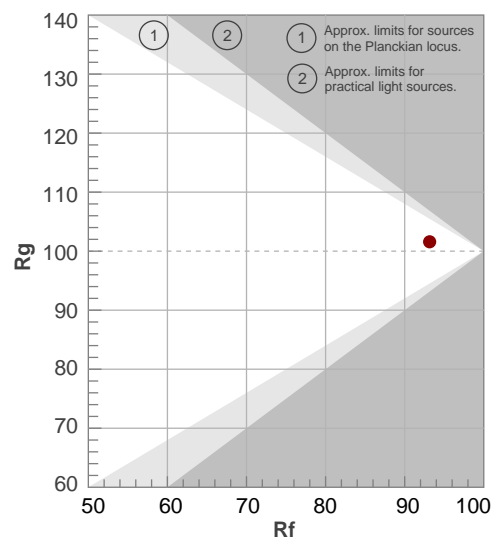
## Rf 93,2

Fidelity index  $R_f$

Rg 101,6

## Gammut index

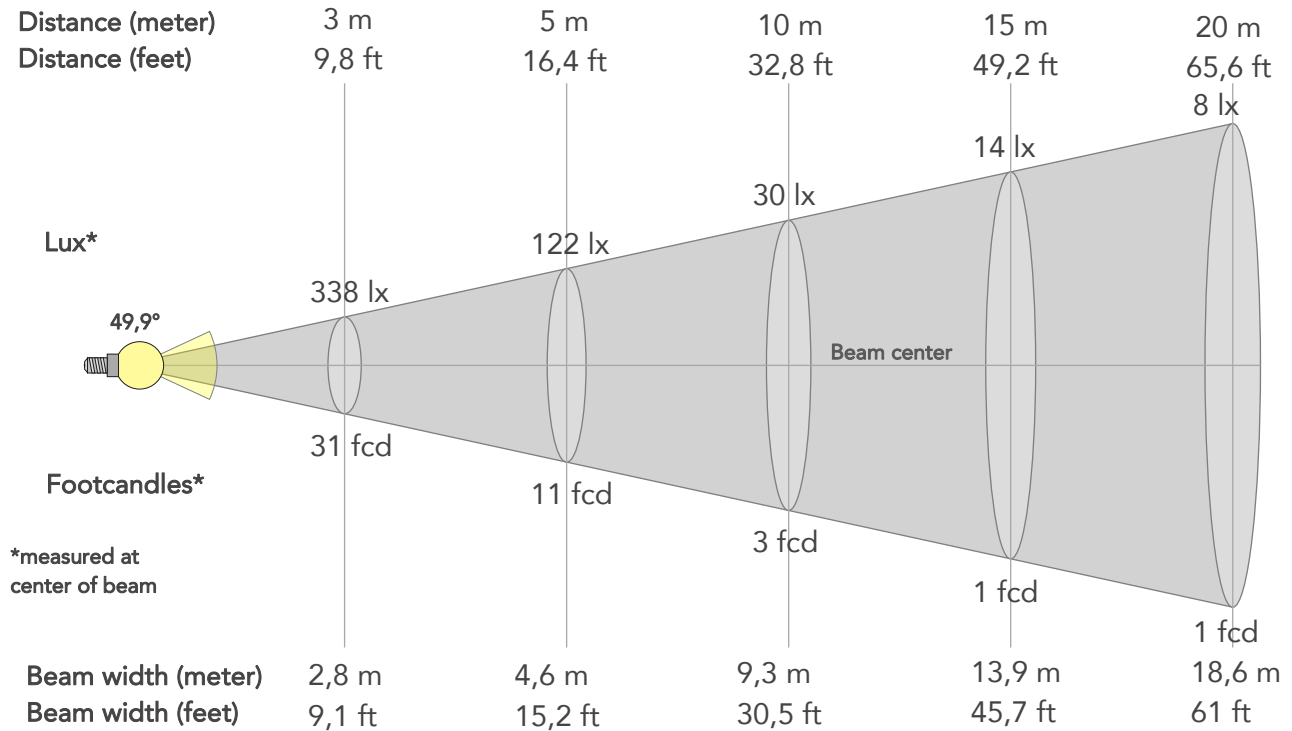
		Graphic shifts (%)	
Hue Bin	$R_f$	Chroma	Hue
1	95	-2%	0%
2	96	-1%	1%
3	93	0%	4%
4	94	0%	2%
5	94	0%	2%
6	96	2%	0%
7	97	0%	0%
8	96	-1%	1%
9	94	-2%	4%
10	89	-1%	7%
11	86	2%	9%
12	94	3%	3%
13	94	5%	0%
14	94	3%	-1%
15	88	7%	-8%
16	94	1%	-3%



# BEAM DETAILS



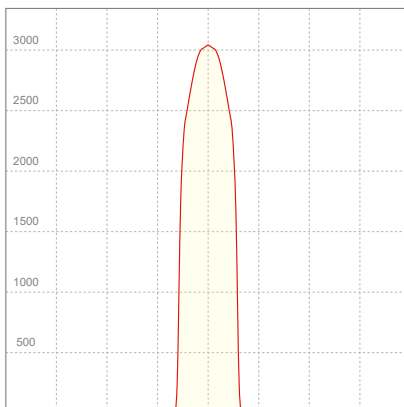
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,9°	54,9°	59,2°	99,8%	99,7%



## 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	3040lx	760lx	338lx	190lx	122lx	54lx	30lx	14lx	8lx	5lx	3lx	2lx	1lx
Footcand.	282fcd	71fcd	31fcd	18fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,7m	4,6m	7m	9,3m	13,9m	18,6m	23,2m	27,9m	37,2m	46,5m
Beam wid.	3,1ft	6,1ft	9,1ft	12,2ft	15,2ft	22,9ft	30,5ft	45,7ft	61ft	76,2ft	91,5ft	121,9ft	152,4ft

## LINEAR DISTRIBUTION DIAGRAM

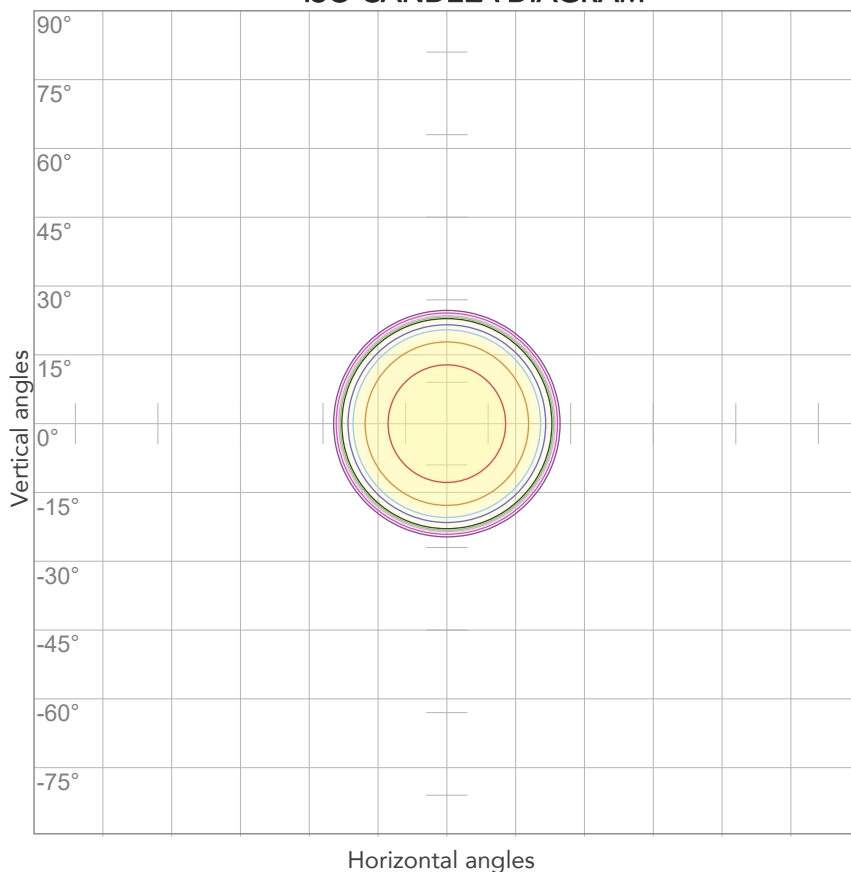


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,154A	33,2W	0,95	48lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



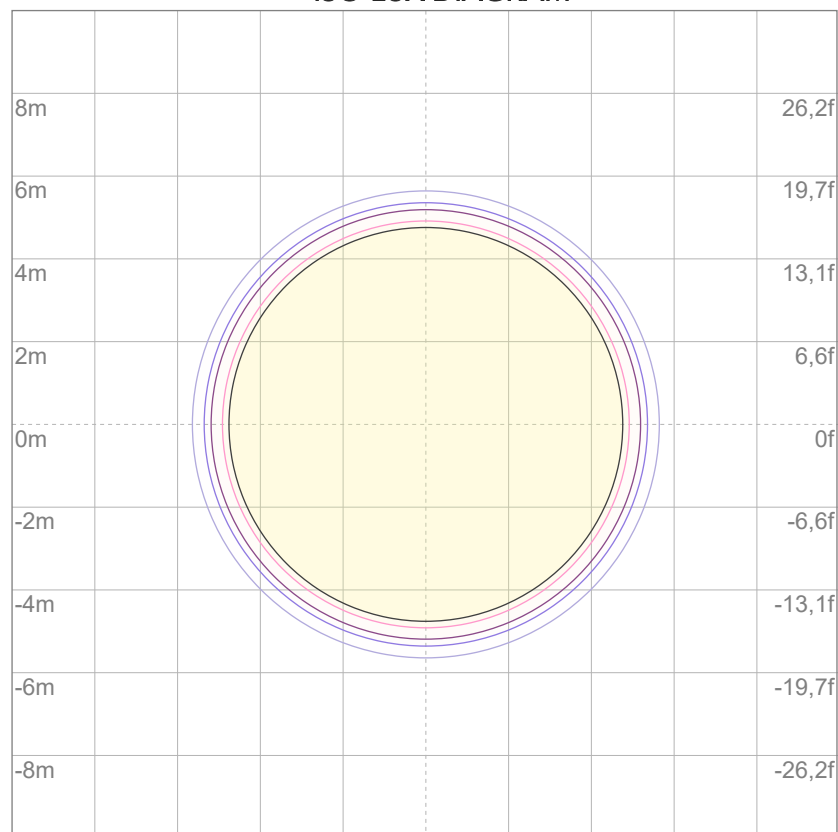
10%	304 cd
20%	608 cd
30%	912 cd
40%	1216 cd
50%	1520 cd
60%	1824 cd
70%	2128 cd
80%	2432 cd

### Conditions:

Number of c-planes: 2

Candela at center: 3040 cd

## ISO LUX DIAGRAM



3%	0,912 lx
5%	1,52 lx
10%	3,04 lx
30%	9,12 lx
50%	15,2 lx

### Conditions:

Number of c-planes: 2

Lux at center: 30,4 lx

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



Total lumen output:

1700 lm

Peak candela output:

6248 cd

Light quality:

CRI: 96,2

Color temperature:

5272 K

**PRODUCT NAME:**

ECLDISPLAYCRMX56K

**MEASURAMENT CONDITIONS:**

Beam angle:

Profile 2040 Max Zoom

Target:

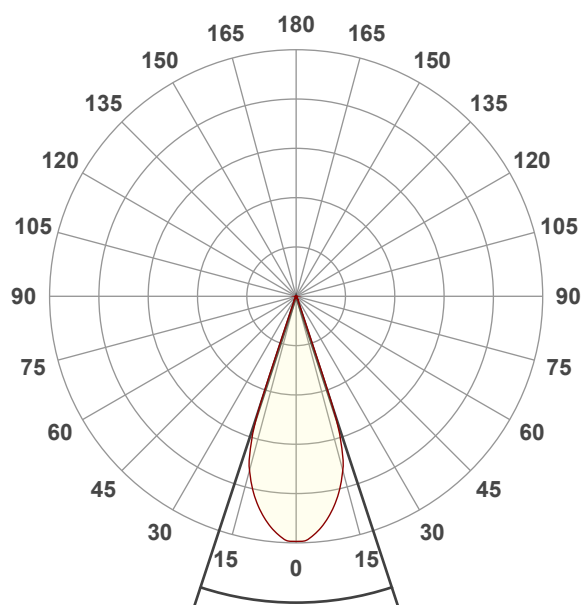
Full On

Operator:

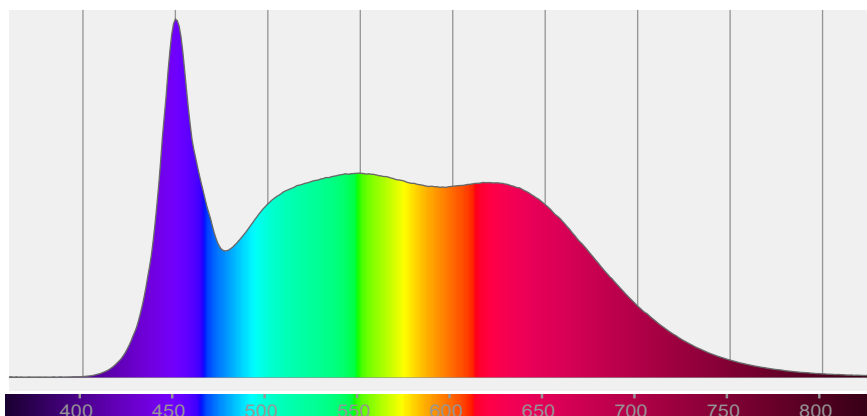
Giacomo Matteo

Date and time:

18/06/2024 14:18:09

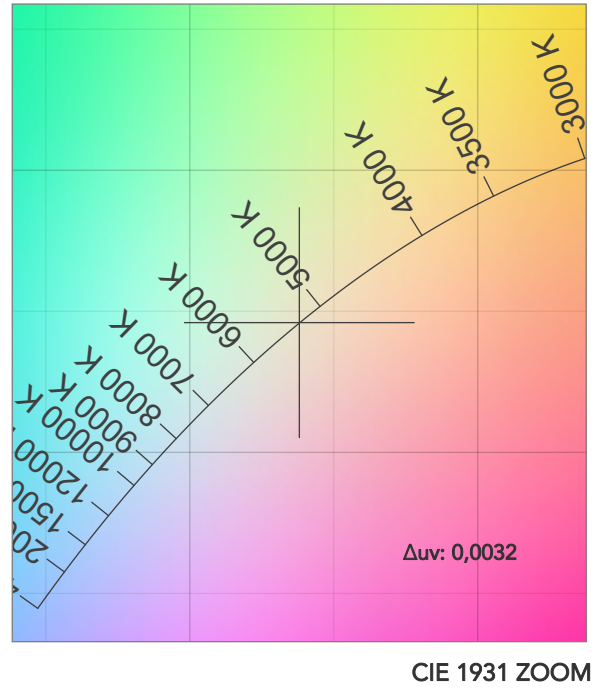
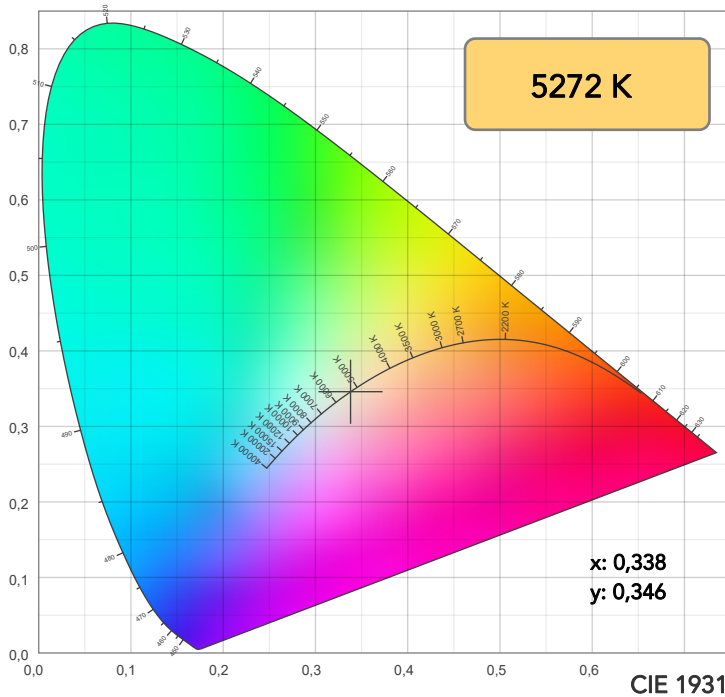


Spectra

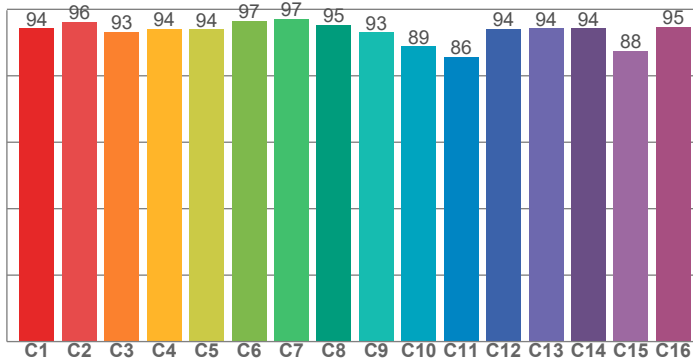




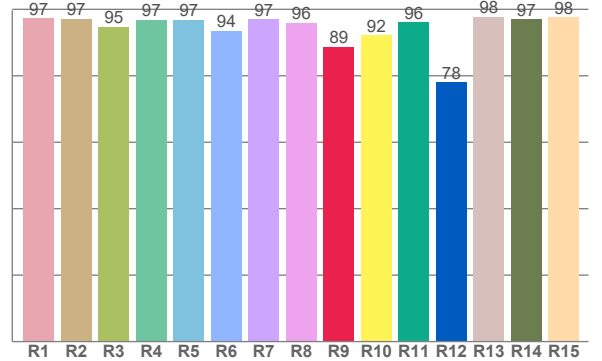
## COLOR DETAILS



TM30: 93,2



CRI: 96,2 (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
97,4	97,2	94,8	96,9	96,8	93,6	97,0	96,0	88,8	92,3	96,0	78,1	97,8	97,0	97,7

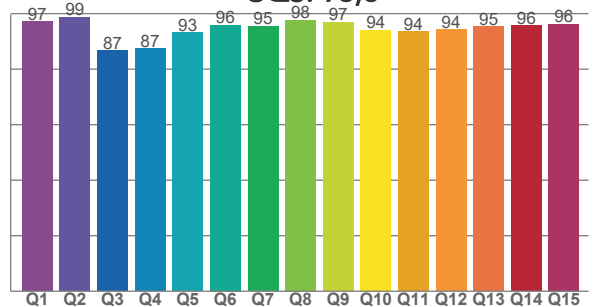
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	96,2	93,2	94,2	93,9	96,6	97,2	95,3	93,0	88,9	85,6	94,0	94,2	94,2	87,5	94,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,1	98,7	86,7	87,4	93,2	95,8	95,4	97,7	96,9	94,2	93,6	94,2	95,4	95,7	96,3

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	$\Delta uv$
5272 K	96,2	88,8	93,2	101,1	93,6	98	0,338	0,346	0,0032

## TM30 DETAILS

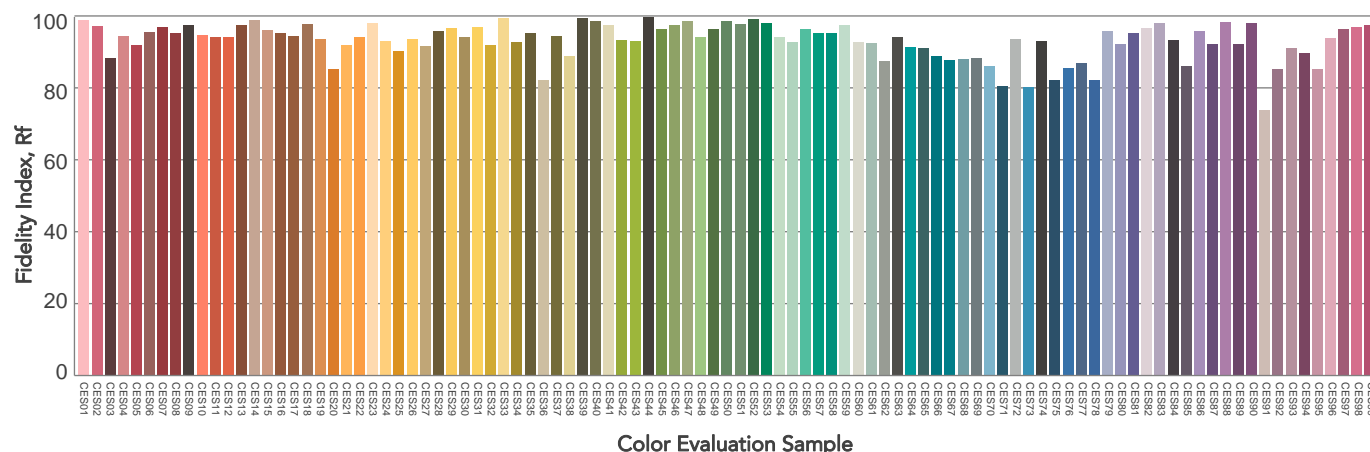
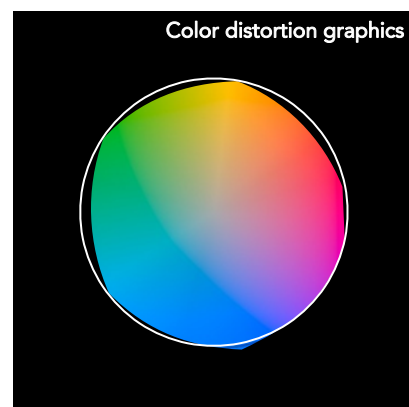
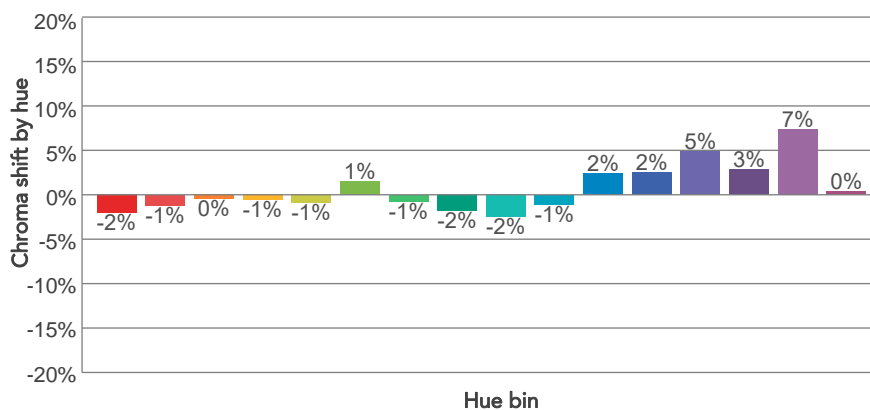
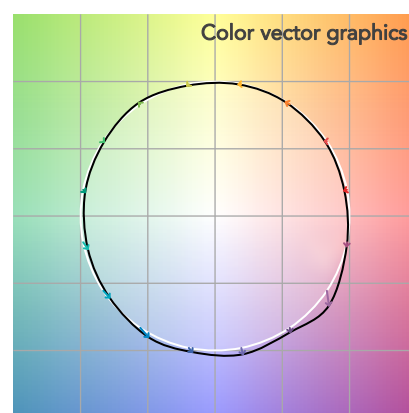
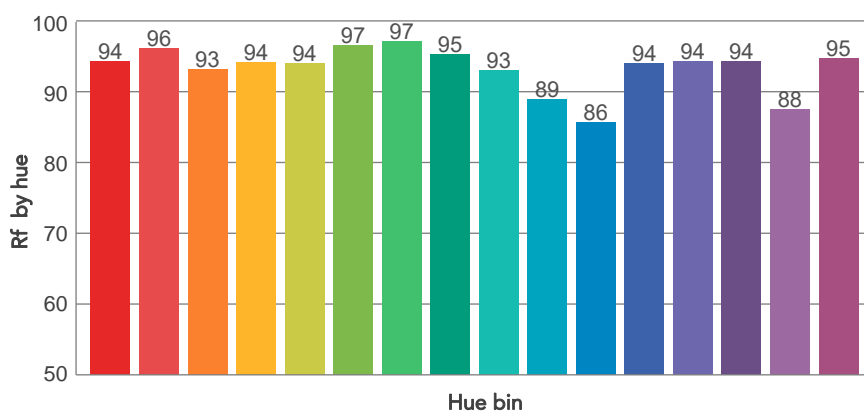
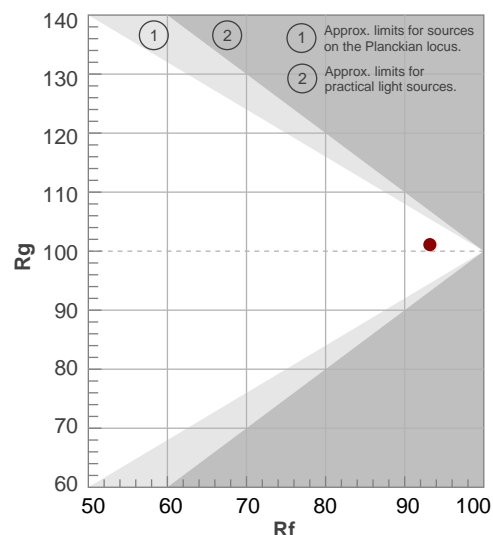
**Rf 93,2**

Fidelity index Rf

**Rg 101,1**

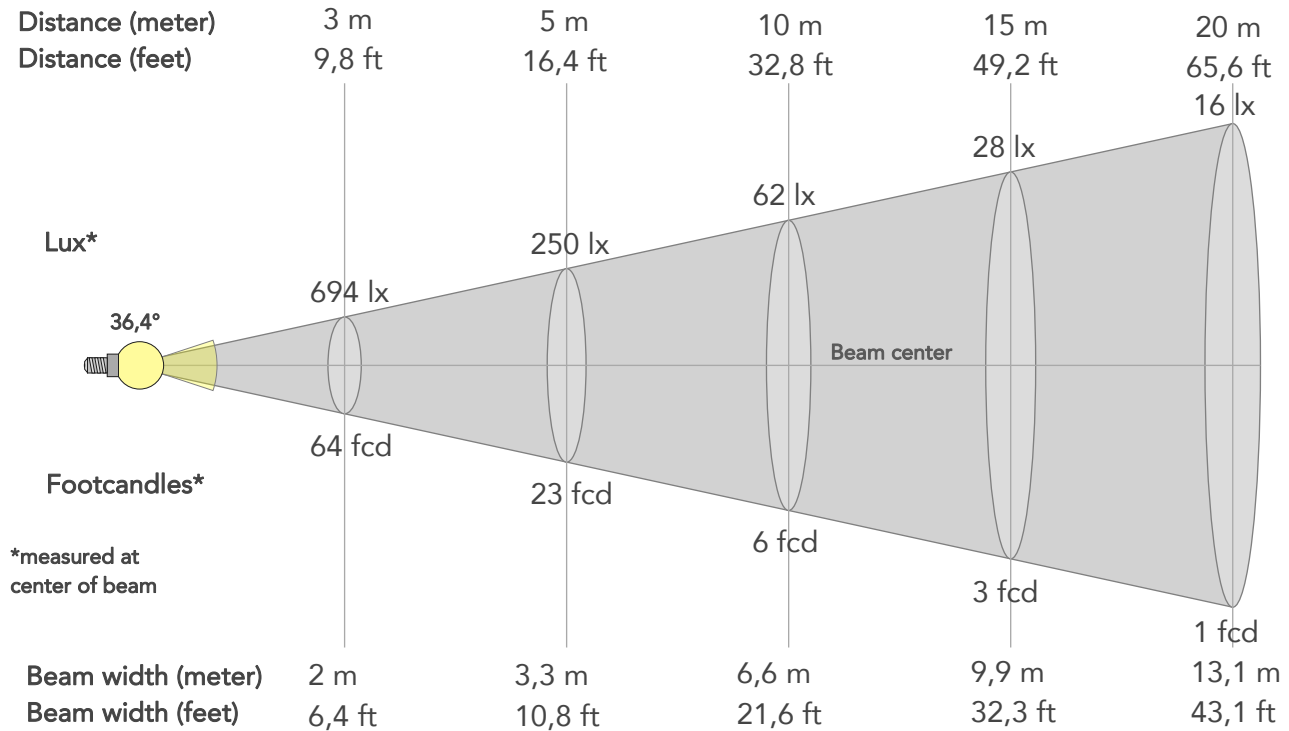
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-2%	0%
2	96	-1%	1%
3	93	0%	3%
4	94	-1%	2%
5	94	-1%	1%
6	97	1%	0%
7	97	-1%	0%
8	95	-2%	2%
9	93	-2%	6%
10	89	-1%	7%
11	86	2%	9%
12	94	2%	3%
13	94	5%	0%
14	94	3%	-1%
15	88	7%	-8%
16	95	0%	-3%



# BEAM DETAILS

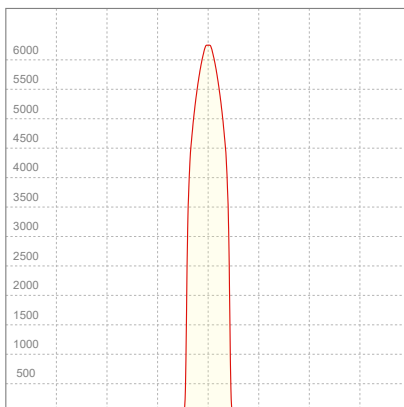
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36,4°	40,1°	43,1°	99,8%	99,7%



## 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	6248lx	1562lx	694lx	390lx	250lx	111lx	62lx	28lx	16lx	10lx	7lx	4lx	2lx
Footcand.	580fcd	145fcd	64fcd	36fcd	23fcd	10fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,6m	3,3m	4,9m	6,6m	9,9m	13,1m	16,4m	19,7m	26,3m	32,9m
Beam wid.	2,2ft	4,3ft	6,4ft	8,6ft	10,8ft	16,2ft	21,6ft	32,3ft	43,1ft	53,9ft	64,7ft	86,2ft	107,8ft

## LINEAR DISTRIBUTION DIAGRAM

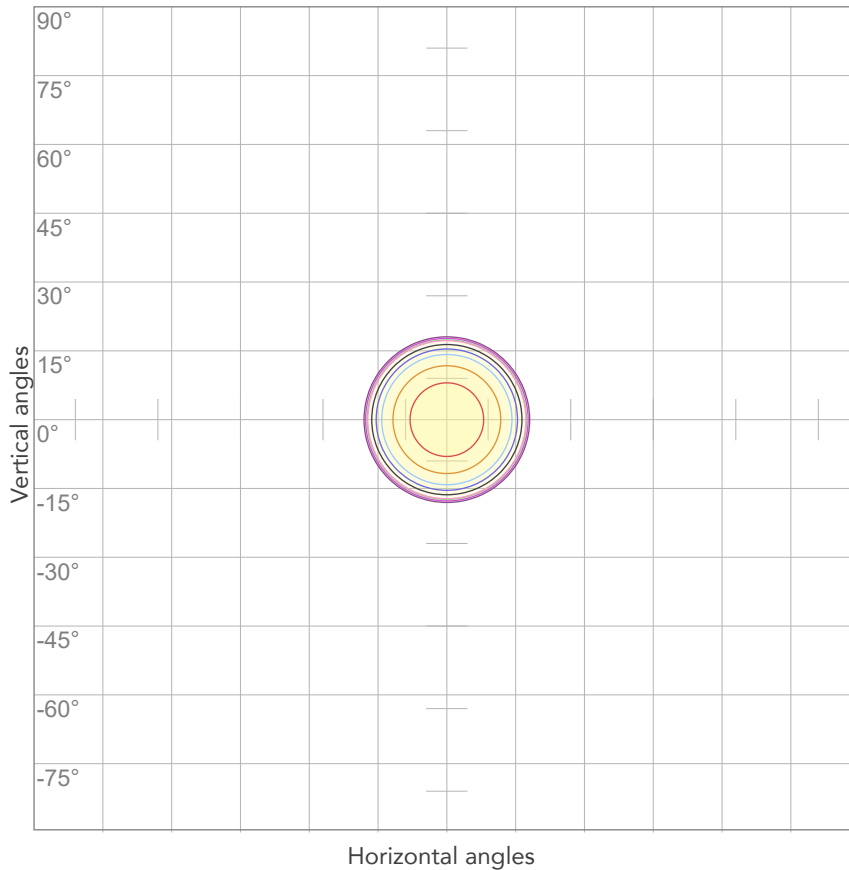


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,154A	33,3W	0,96	51lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



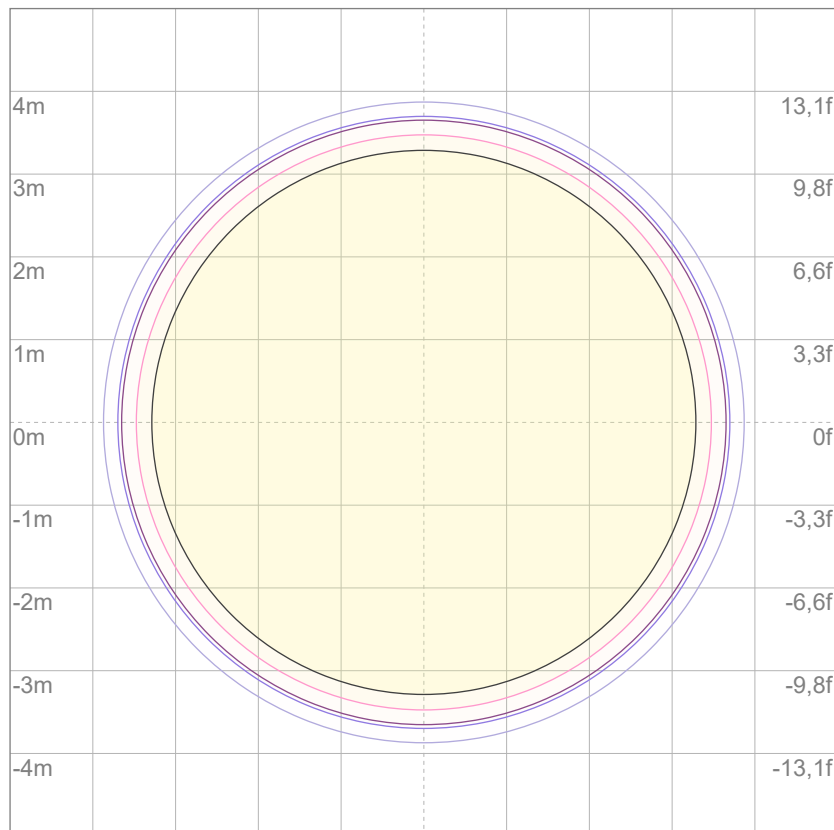
10%	625 cd
20%	1250 cd
30%	1874 cd
40%	2499 cd
50%	3124 cd
60%	3749 cd
70%	4374 cd
80%	4998 cd

### Conditions:

Number of c-planes: 2

Candela at center: 6248 cd

## ISO LUX DIAGRAM



3%	1,87 lx
5%	3,12 lx
10%	6,25 lx
30%	18,7 lx
50%	31,2 lx

### Conditions:

Number of c-planes: 2

Lux at center: 62,5 lx

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



Total lumen output:

1687 lm

Peak candela output:

21315 cd

Light quality:

CRI: 96,2

Color temperature:

5225 K

**PRODUCT NAME:**  
ECLDISPLAYCRMX56K

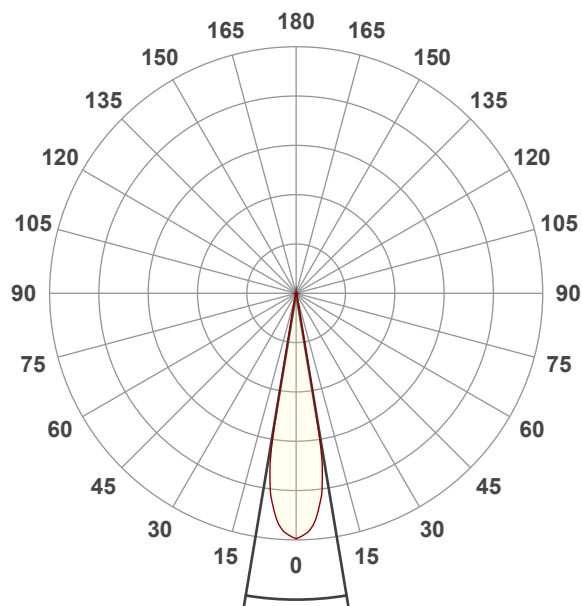
**MEASURAMENT CONDITIONS:**

Beam angle:  
Profile 2040 Min Zoom

Target:  
Full On

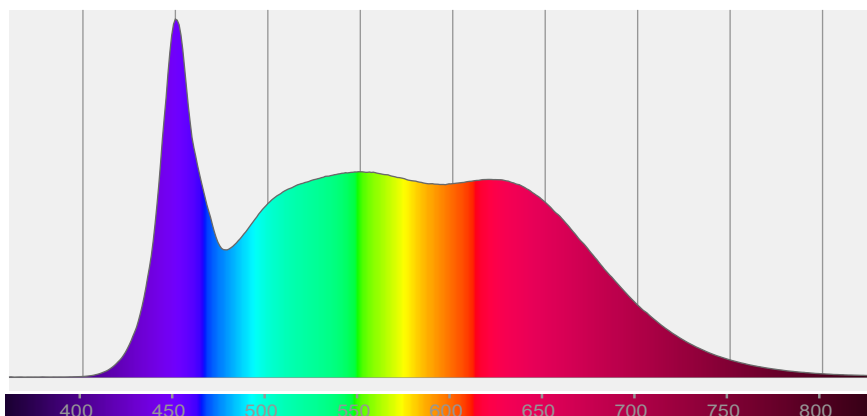
Operator:  
Giacomo Matteo

Date and time:  
18/06/2024 14:19:46

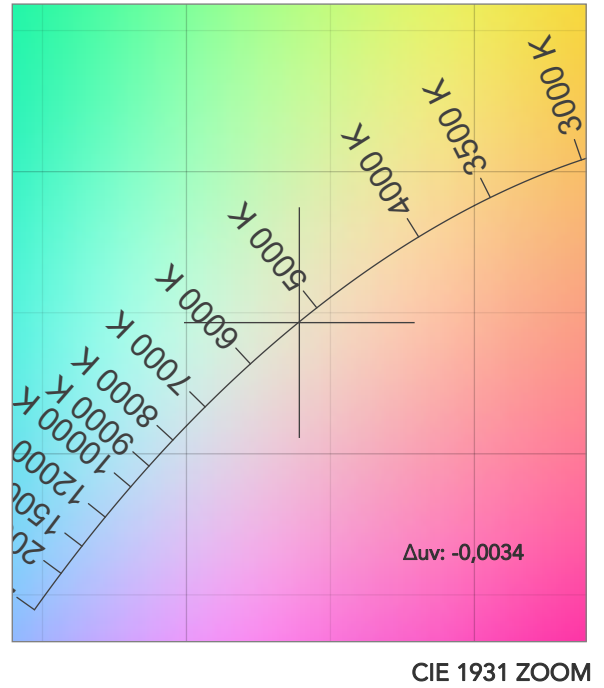
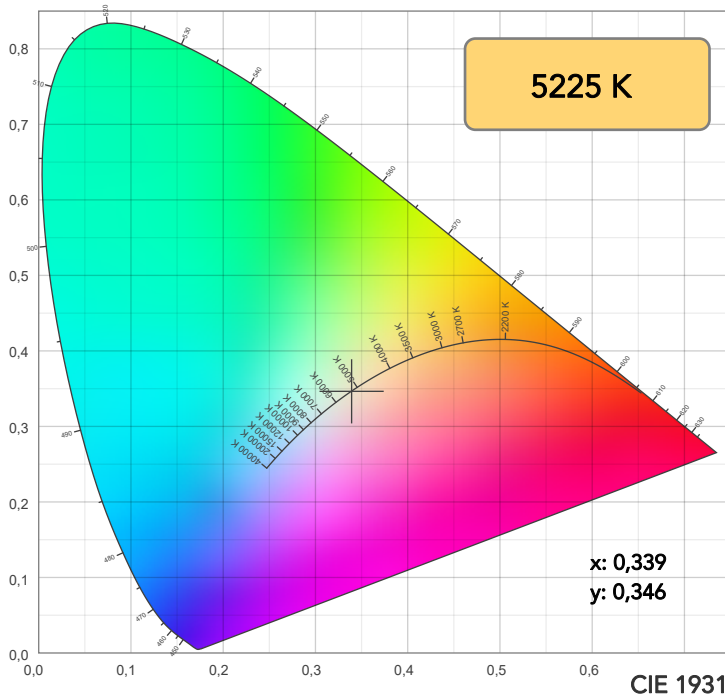


Beam angle 50%: 18,9°  
Field angle 10%: 21,2°  
Cut off angle 2.5%: 23,3°

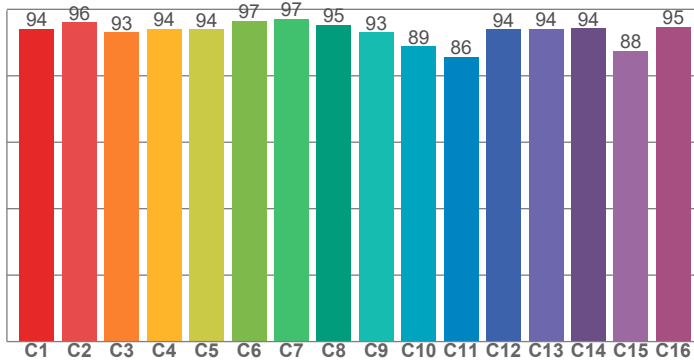
**Spectra**



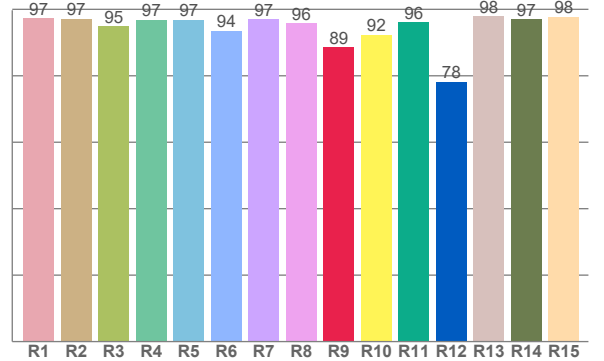
# COLOR DETAILS



TM30: 93,2



CRI: 96,2 (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
97,4	97,2	94,9	96,9	96,9	93,6	97,0	95,9	88,7	92,4	96,1	78,2	97,8	97,0	97,8

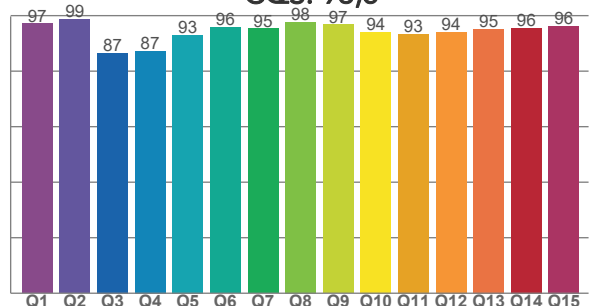
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	96,1	93,1	94,1	93,9	96,6	97,1	95,3	93,0	88,8	85,6	94,0	94,2	94,2	87,6	94,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,1	98,7	86,6	87,3	93,1	95,8	95,4	97,7	96,8	94,1	93,4	94,0	95,2	95,6	96,2

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	$\Delta uv$
5225 K	96,2	88,7	93,2	101,1	93,5	98	0,339	0,346	-0,0034

## TM30 DETAILS

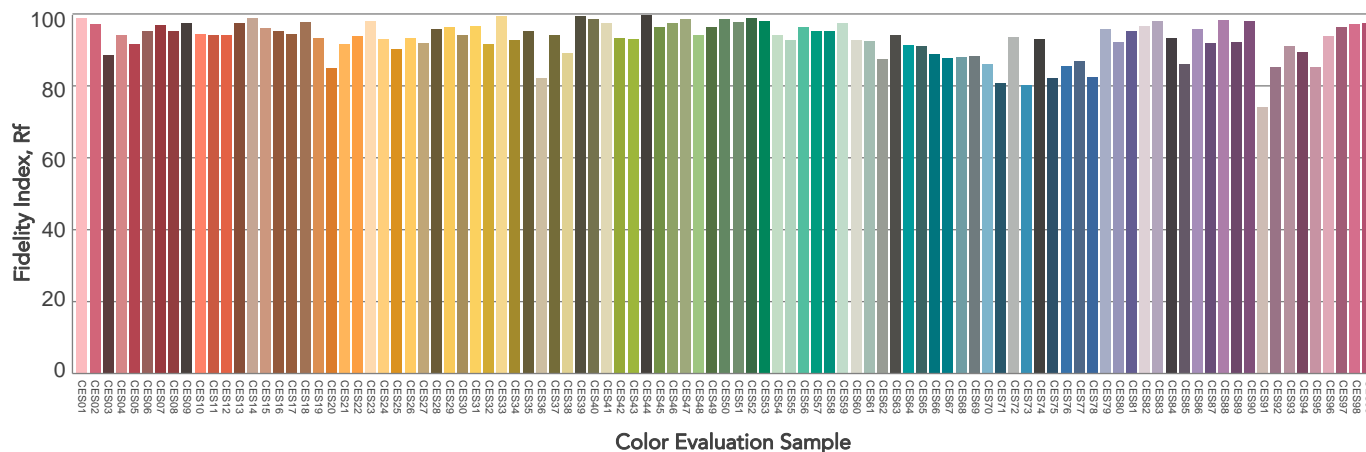
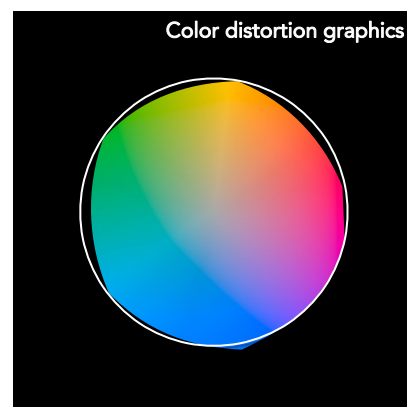
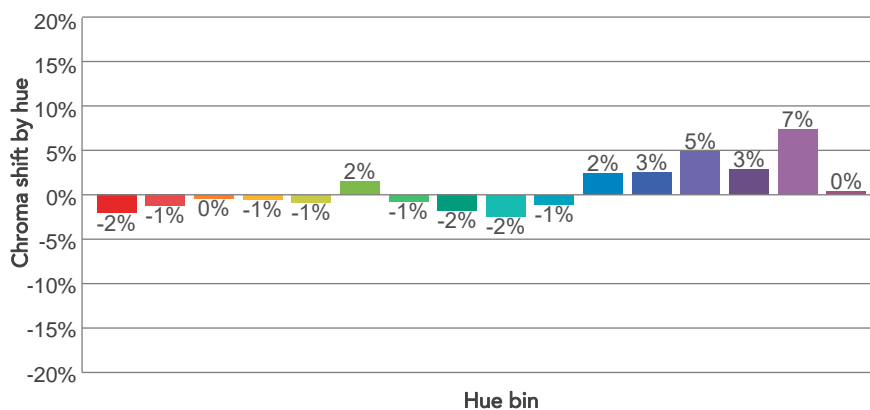
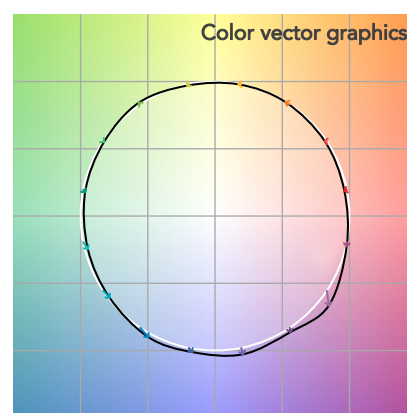
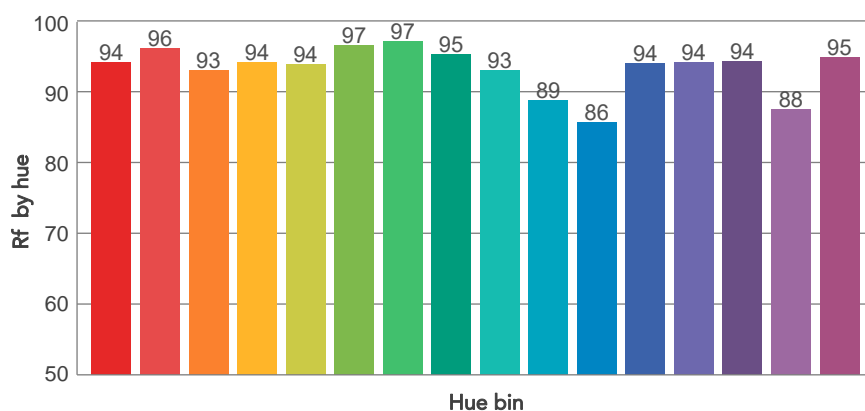
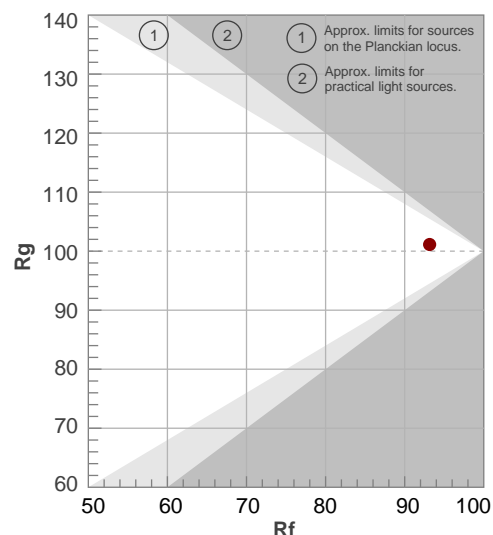
**Rf 93,2**

Fidelity index Rf

**Rg 101,1**

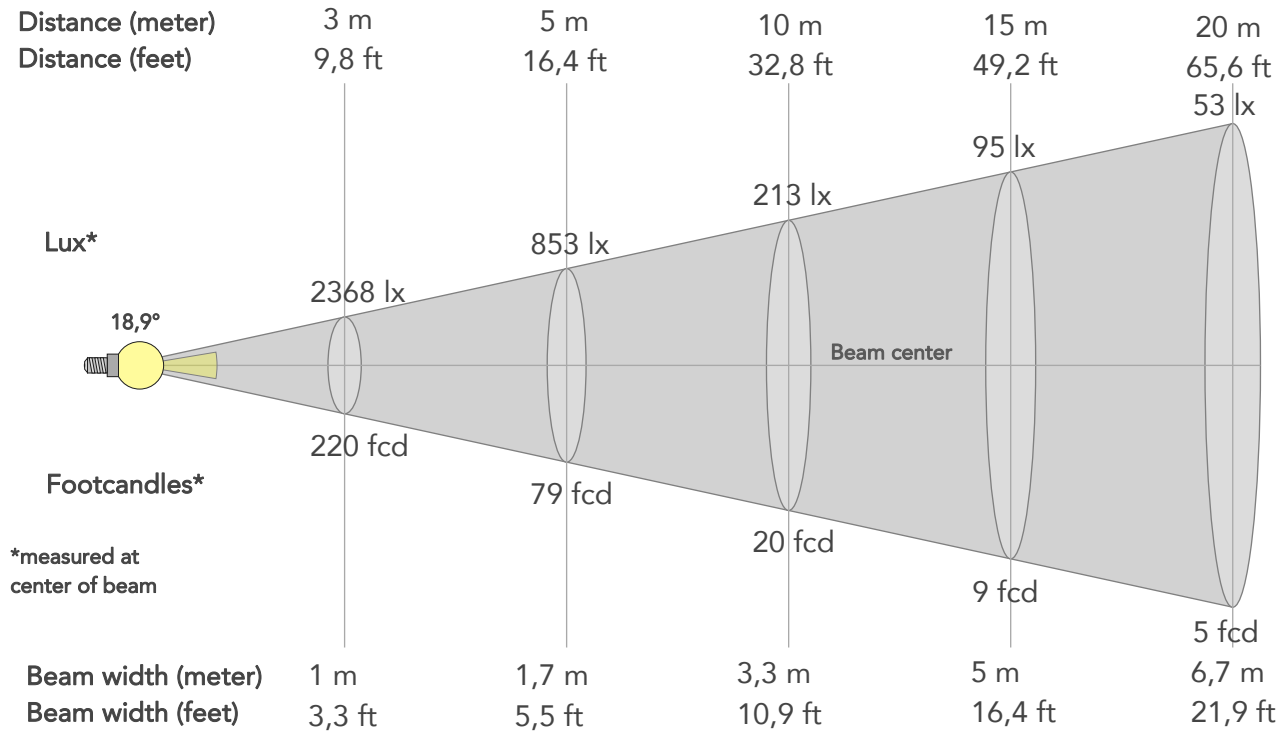
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-2%	0%
2	96	-1%	1%
3	93	0%	3%
4	94	-1%	2%
5	94	-1%	1%
6	97	2%	0%
7	97	-1%	0%
8	95	-2%	2%
9	93	-2%	6%
10	89	-1%	7%
11	86	2%	9%
12	94	3%	3%
13	94	5%	0%
14	94	3%	-1%
15	88	7%	-8%
16	95	0%	-3%



# BEAM DETAILS

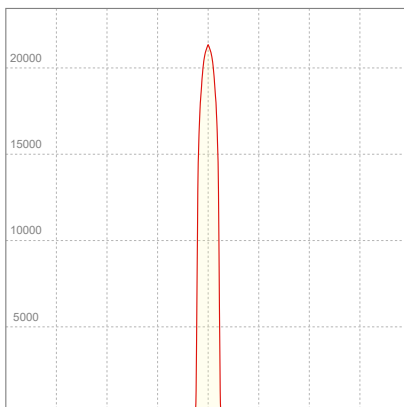
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,9°	21,2°	23,3°	99,5%	99,3%



## 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	21315lx	5329lx	2368lx	1332lx	853lx	379lx	213lx	95lx	53lx	34lx	24lx	13lx	9lx
Footcand.	1980fcd	495fcd	220fcd	124fcd	79fcd	35fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,7m	8,3m	10m	13,3m	16,7m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,2ft	10,9ft	16,4ft	21,9ft	27,4ft	32,8ft	43,8ft	54,7ft

## LINEAR DISTRIBUTION DIAGRAM



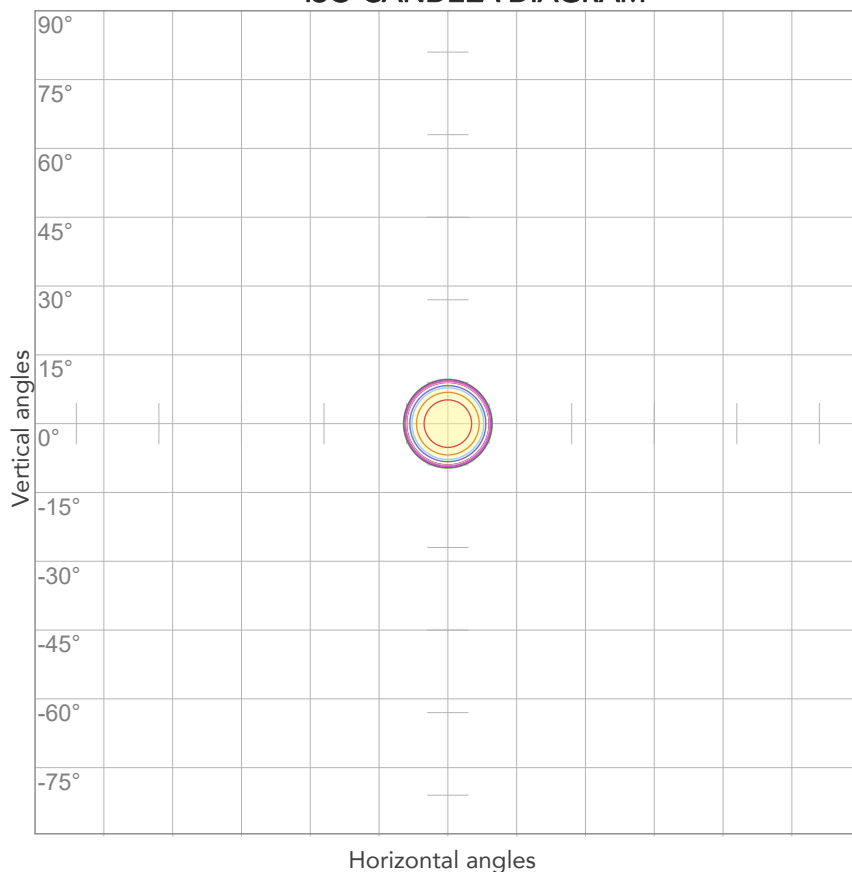
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,153A	33,2W	0,95	51lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



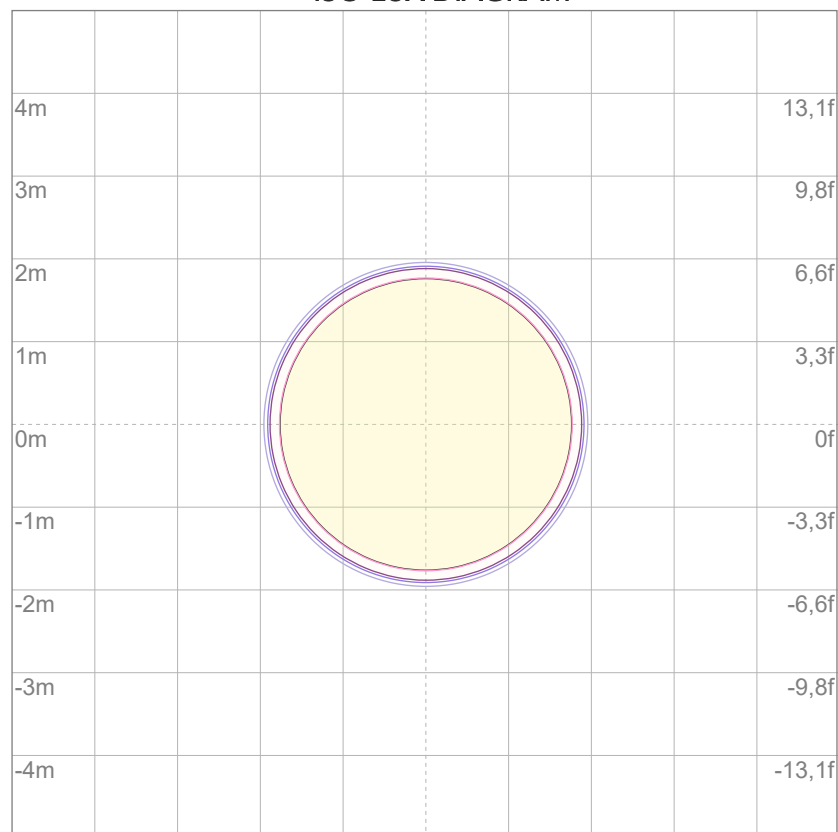
10%	2131 cd
20%	4263 cd
30%	6394 cd
40%	8526 cd
50%	10657 cd
60%	12789 cd
70%	14920 cd
80%	17052 cd

### Conditions:

Number of c-planes: 2

Candela at center: 21315 cd

## ISO LUX DIAGRAM



3%	6,39 lx
5%	10,7 lx
10%	21,3 lx
30%	63,9 lx
50%	107 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:

1653 lm

Peak candela output:

21238 cd

Light quality:

CRI: 96,3

Color temperature:

5182 K

PRODUCT NAME:

ECLDISPLAYCRMX56K

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

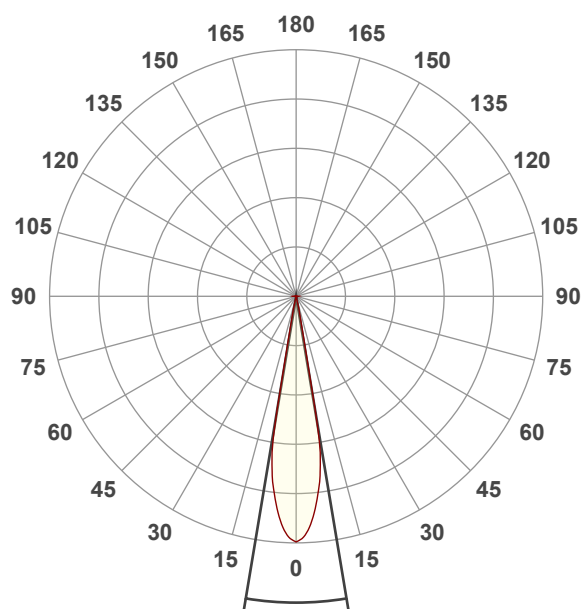
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 14:06:56

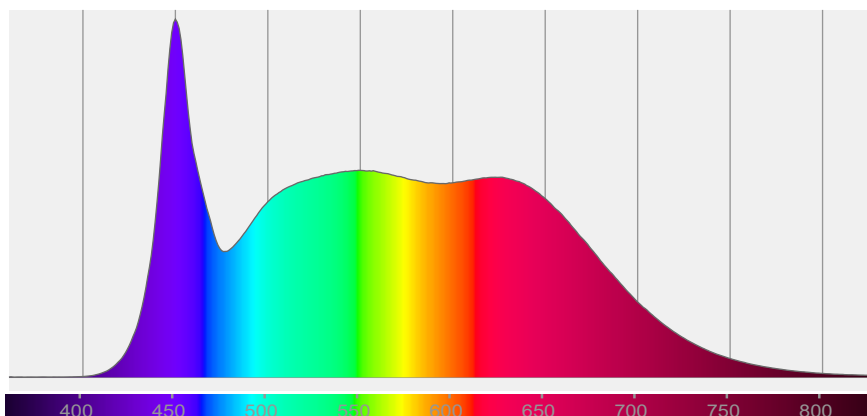


Beam angle 50%: 18,9°

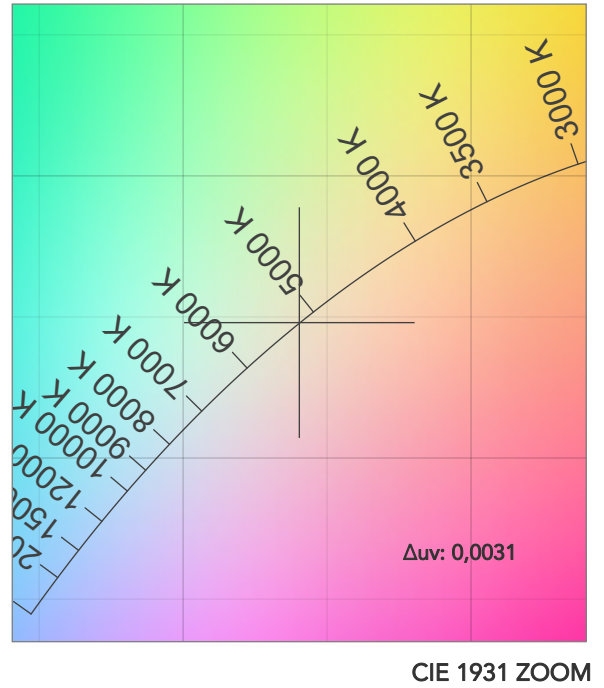
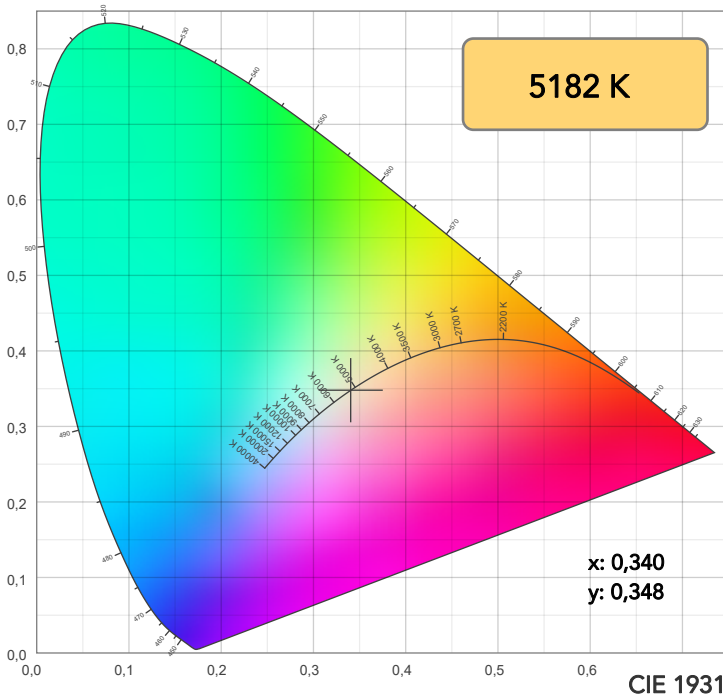
Field angle 10%: 21,8°

Cut off angle 2.5%: 24,1°

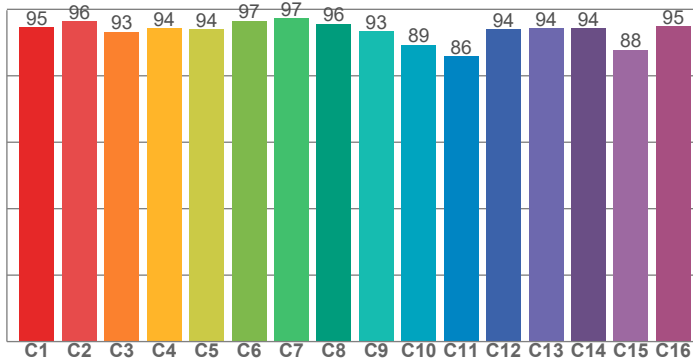
Spectra



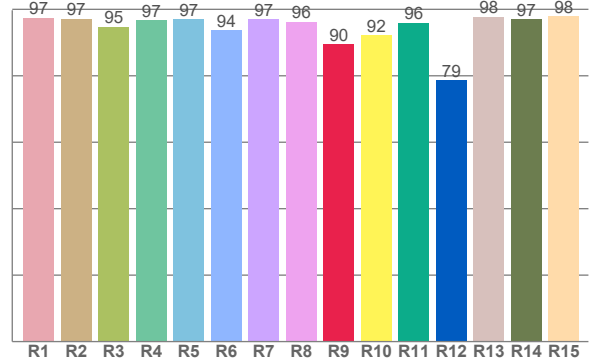
# COLOR DETAILS



**TM30: 93,3**



**CRI: 96,3 (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
97,5	97,1	94,8	96,8	97,0	93,7	97,0	96,3	89,6	92,3	95,9	78,6	97,8	96,9	97,9

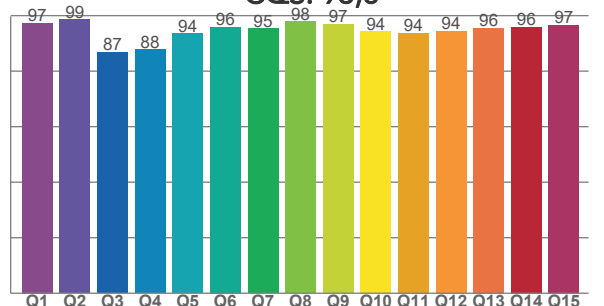
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,5	96,3	93,3	94,3	93,9	96,5	97,3	95,6	93,4	89,3	85,8	94,0	94,3	94,2	87,9	94,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,4	98,6	86,8	87,8	93,6	95,9	95,4	97,8	96,9	94,2	93,7	94,4	95,6	96,0	96,5

**CQS: 93,8**



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
5182 K	96,3	89,6	93,3	101,3	93,8	98	0,340	0,348	0,0031

## TM30 DETAILS

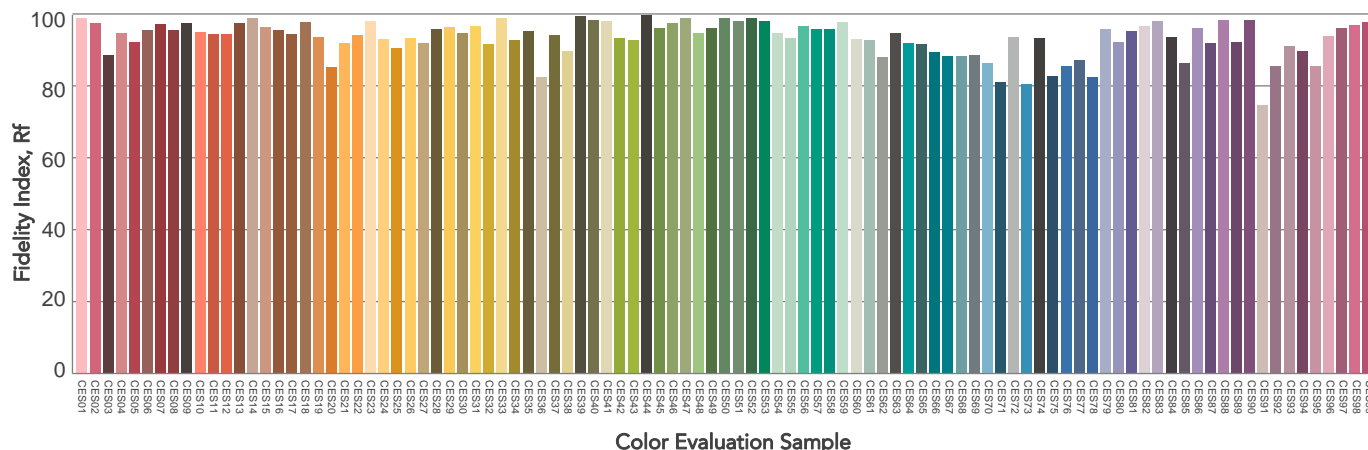
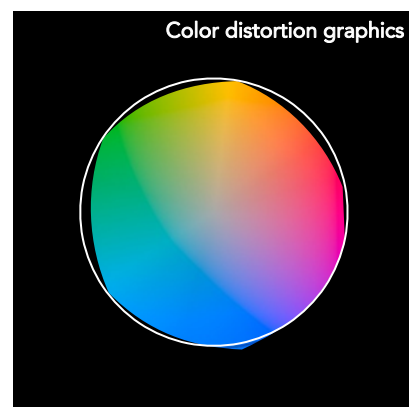
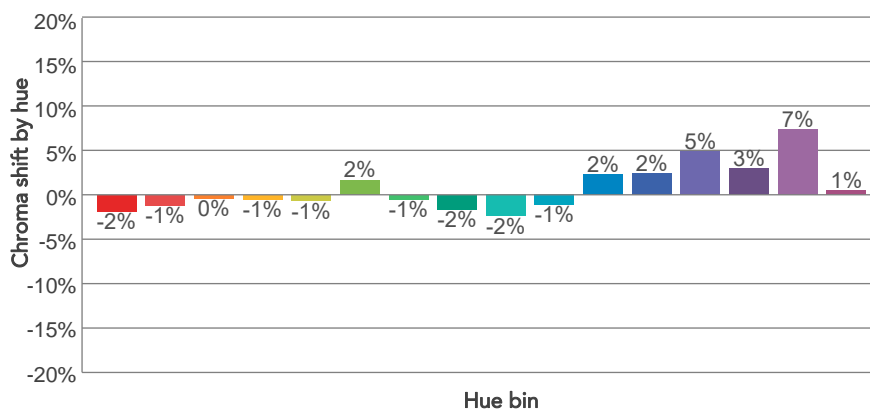
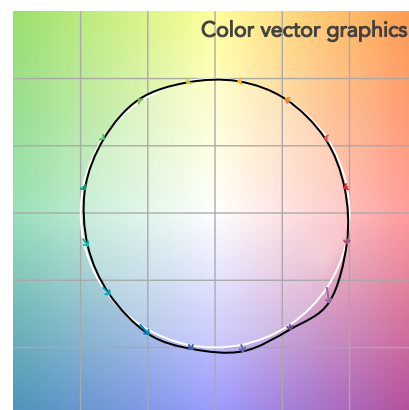
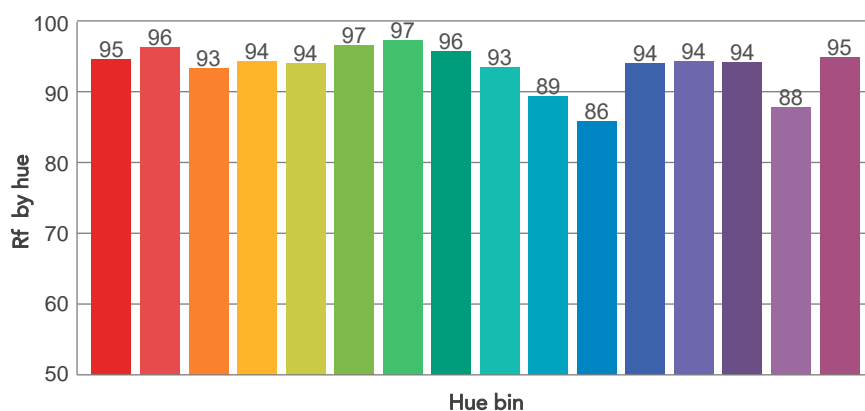
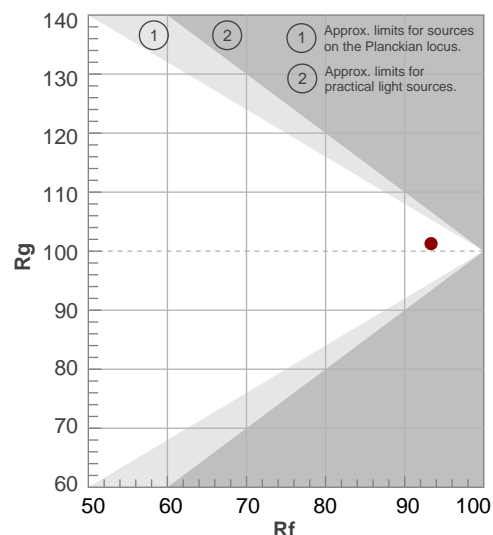
**Rf 93,3**

Fidelity index Rf

**Rg 101,3**

Gammut index

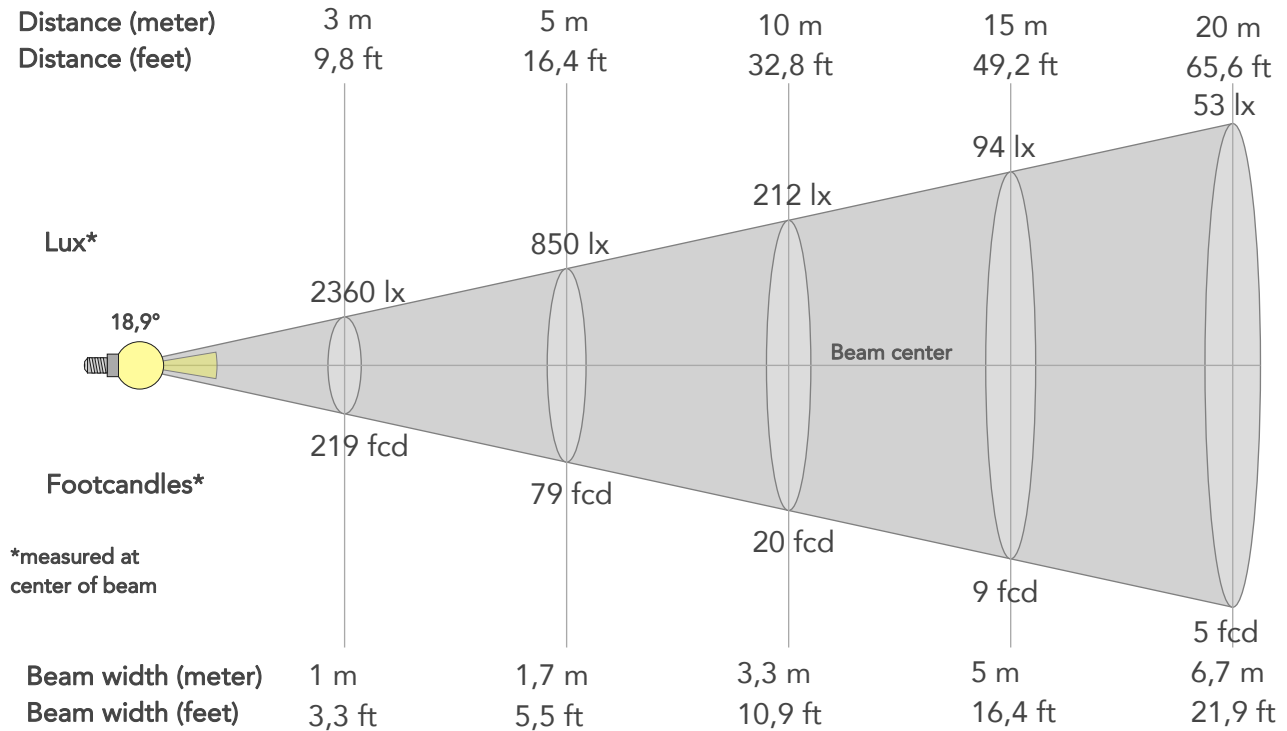
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	96	-1%	1%
3	93	0%	3%
4	94	-1%	2%
5	94	-1%	2%
6	97	2%	0%
7	97	-1%	0%
8	96	-2%	1%
9	93	-2%	5%
10	89	-1%	7%
11	86	2%	9%
12	94	2%	3%
13	94	5%	0%
14	94	3%	-1%
15	88	7%	-8%
16	95	1%	-3%



# BEAM DETAILS



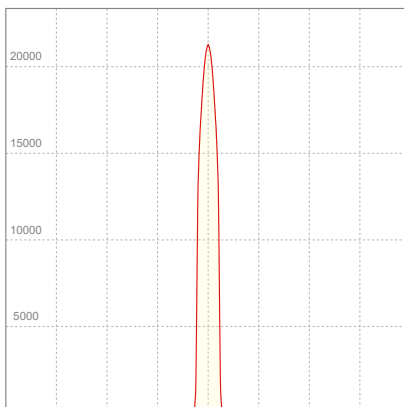
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,9°	21,8°	24,1°	99,5%	99,4%



## 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	21238lx	5309lx	2360lx	1327lx	850lx	378lx	212lx	94lx	53lx	34lx	24lx	13lx	8lx
Footcand.	1973fcd	493fcd	219fcd	123fcd	79fcd	35fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,7m	8,3m	10m	13,3m	16,7m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,2ft	10,9ft	16,4ft	21,9ft	27,3ft	32,8ft	43,7ft	54,7ft

## LINEAR DISTRIBUTION DIAGRAM

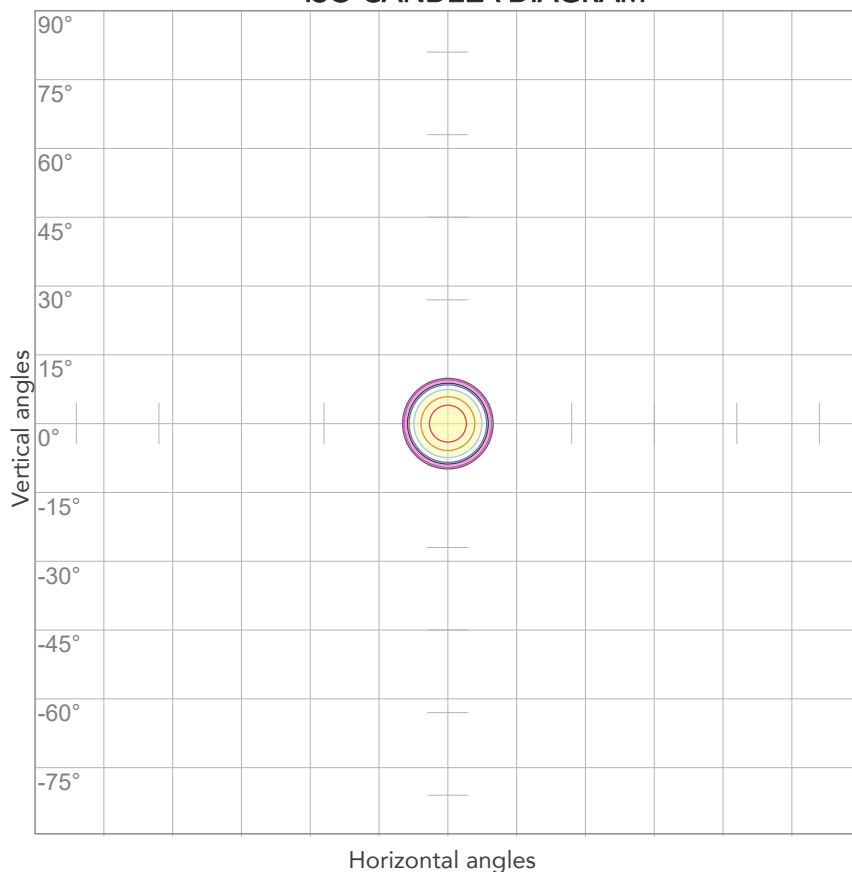


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,154A	33,5W	0,96	49lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



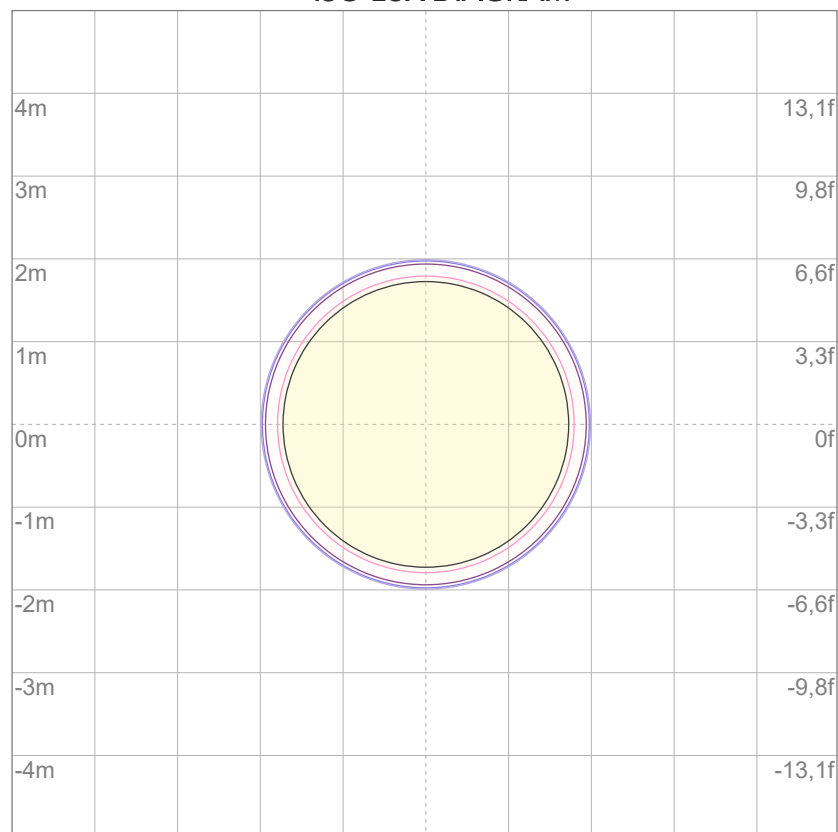
10%	2124 cd
20%	4248 cd
30%	6371 cd
40%	8495 cd
50%	10619 cd
60%	12743 cd
70%	14866 cd
80%	16990 cd

### Conditions:

Number of c-planes: 2

Candela at center: 21238 cd

## ISO LUX DIAGRAM



3%	6,37 lx
5%	10,6 lx
10%	21,2 lx
30%	63,7 lx
50%	106 lx

### Conditions:

Number of c-planes: 2

Lux at center: 212 lx

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



Total lumen output:

1590 lm

Peak candela output:

73253 cd

Light quality:

CRI: 96,4

Color temperature:

5231 K

**PRODUCT NAME:**

ECLDISPLAYCRMX56K

**MEASURAMENT CONDITIONS:**

Beam angle:

Profile 1020 Min Zoom

Target:

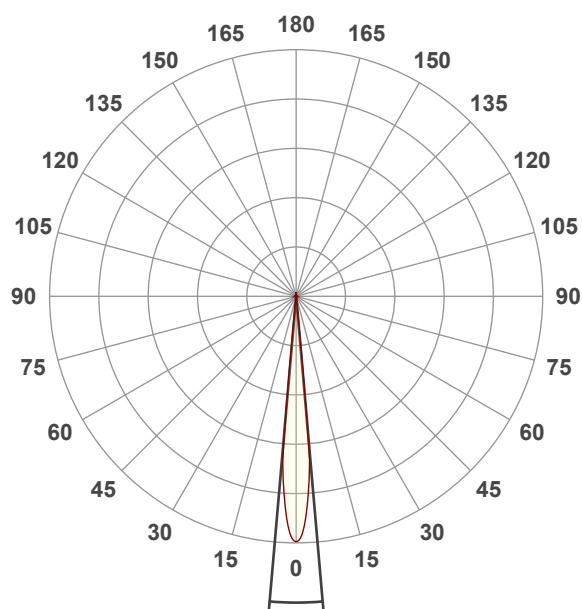
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 14:09:13

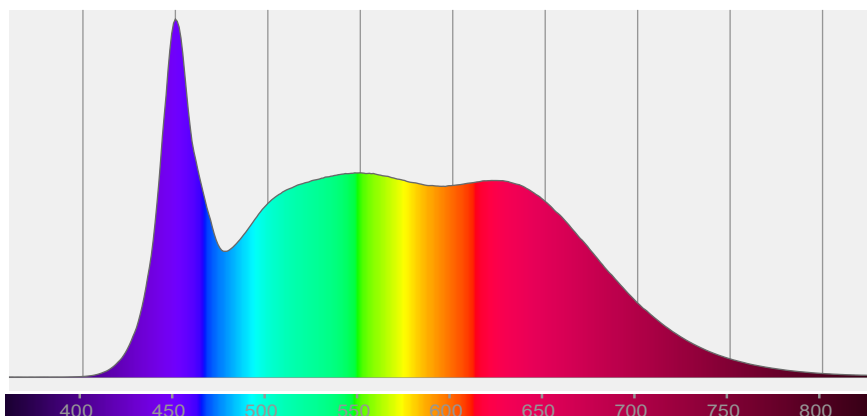


Beam angle 50%: 9,9°

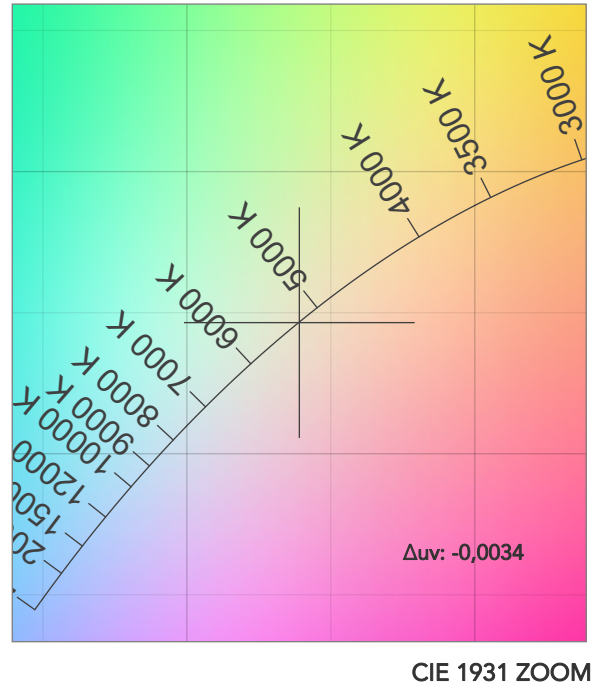
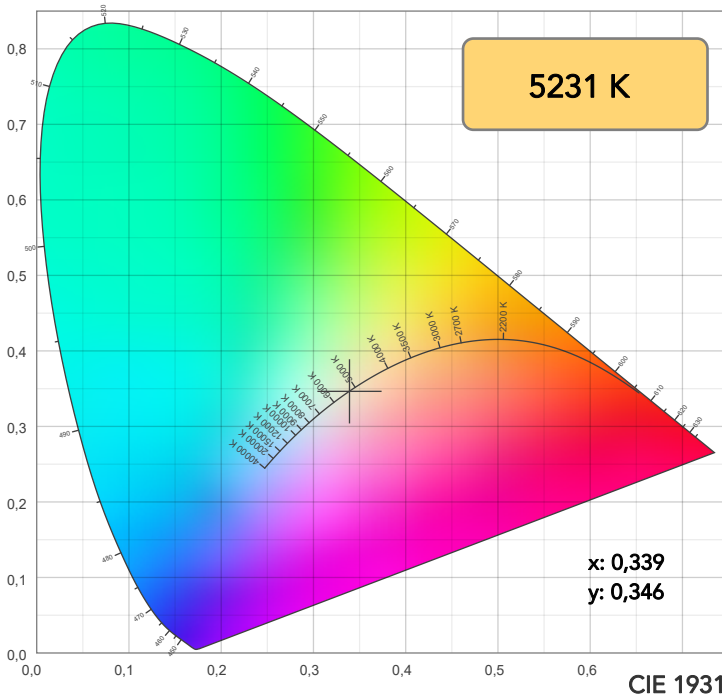
Field angle 10%: 11,2°

Cut off angle 2.5%: 11,5°

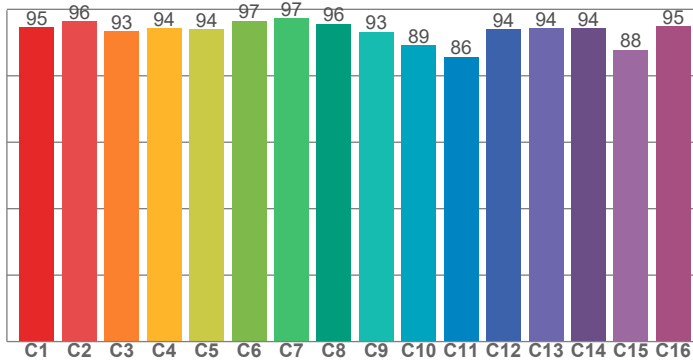
**Spectra**



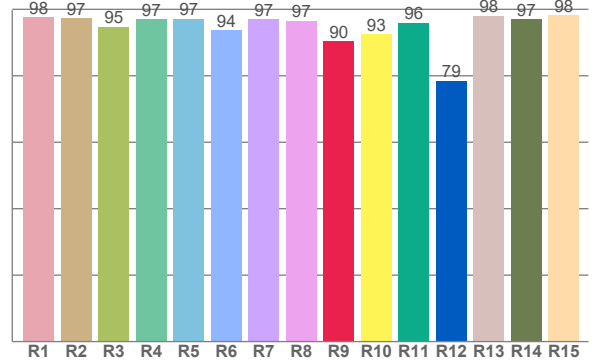
# COLOR DETAILS



TM30: 93,3



CRI: 96,4 (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
97,6	97,3	94,7	96,9	97,1	93,7	97,1	96,6	90,4	92,6	96,0	78,5	98,0	96,9	98,1

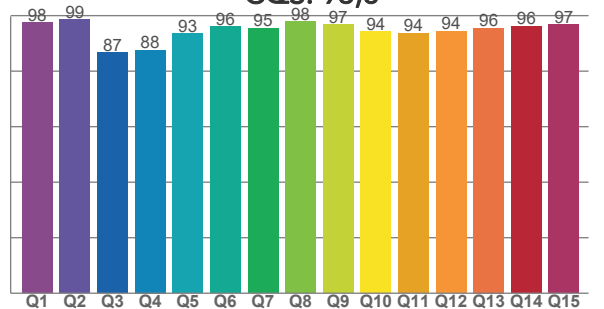
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	96,3	93,3	94,2	93,9	96,5	97,3	95,6	93,3	89,2	85,7	94,0	94,3	94,3	87,8	94,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,5	98,6	86,7	87,6	93,5	96,0	95,5	97,9	96,8	94,2	93,7	94,3	95,5	96,2	96,7

CQS: 93,8



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
5231 K	96,4	90,4	93,3	101,3	93,8	98	0,339	0,346	-0,0034



## TM30 DETAILS

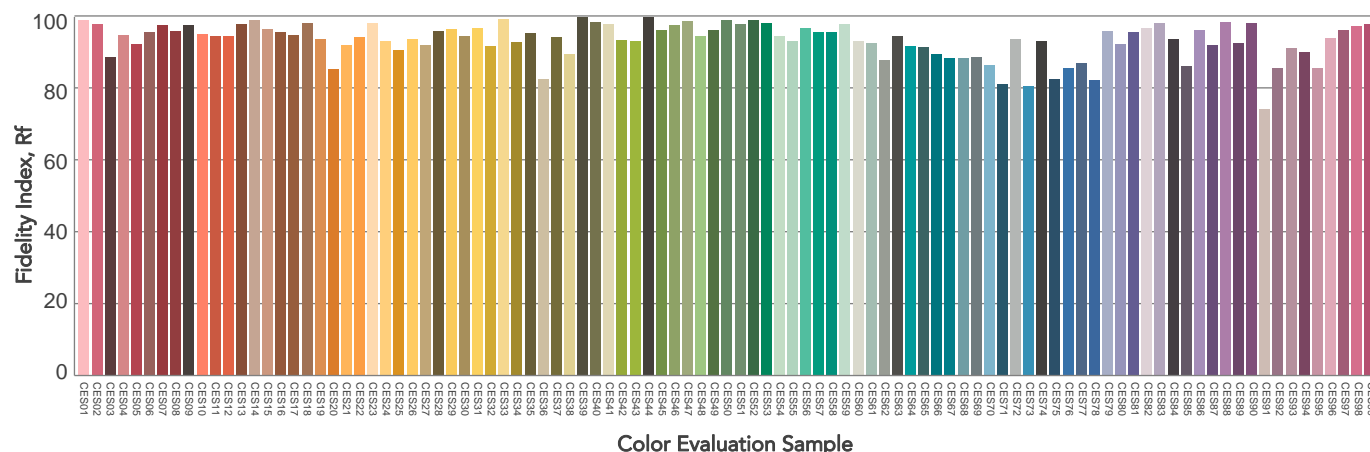
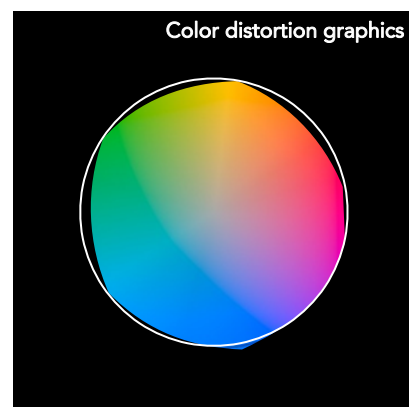
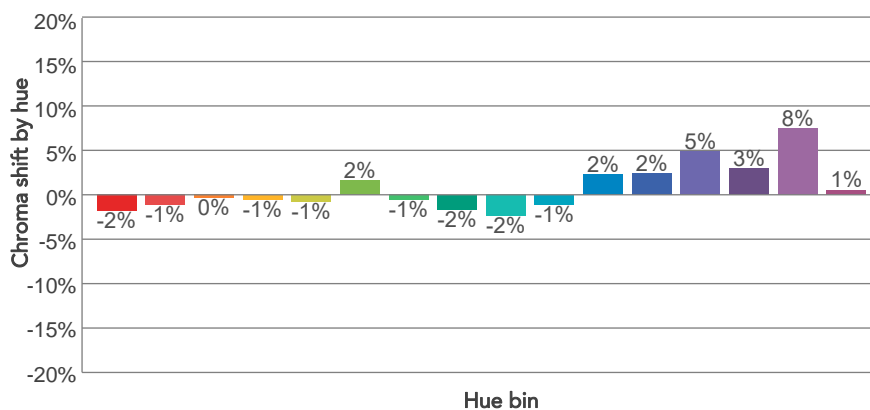
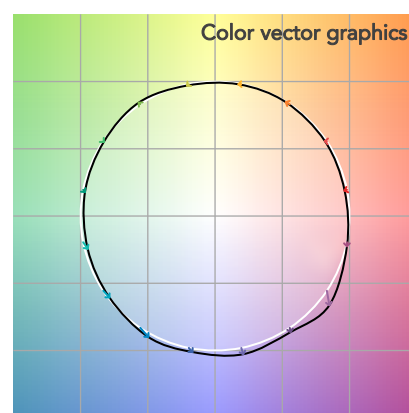
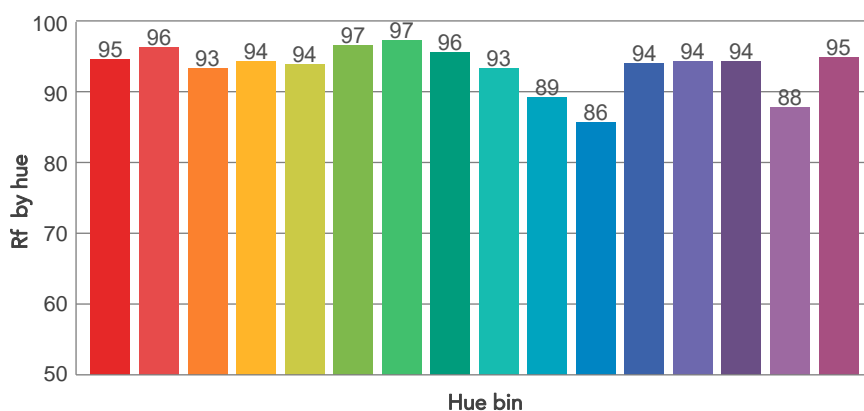
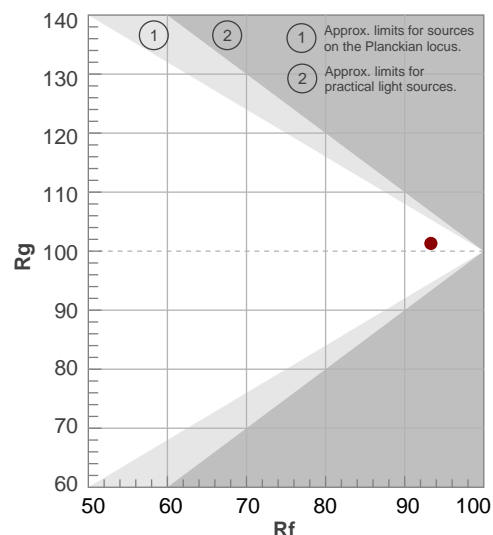
**Rf 93,3**

Fidelity index Rf

**Rg 101,3**

Gammut index

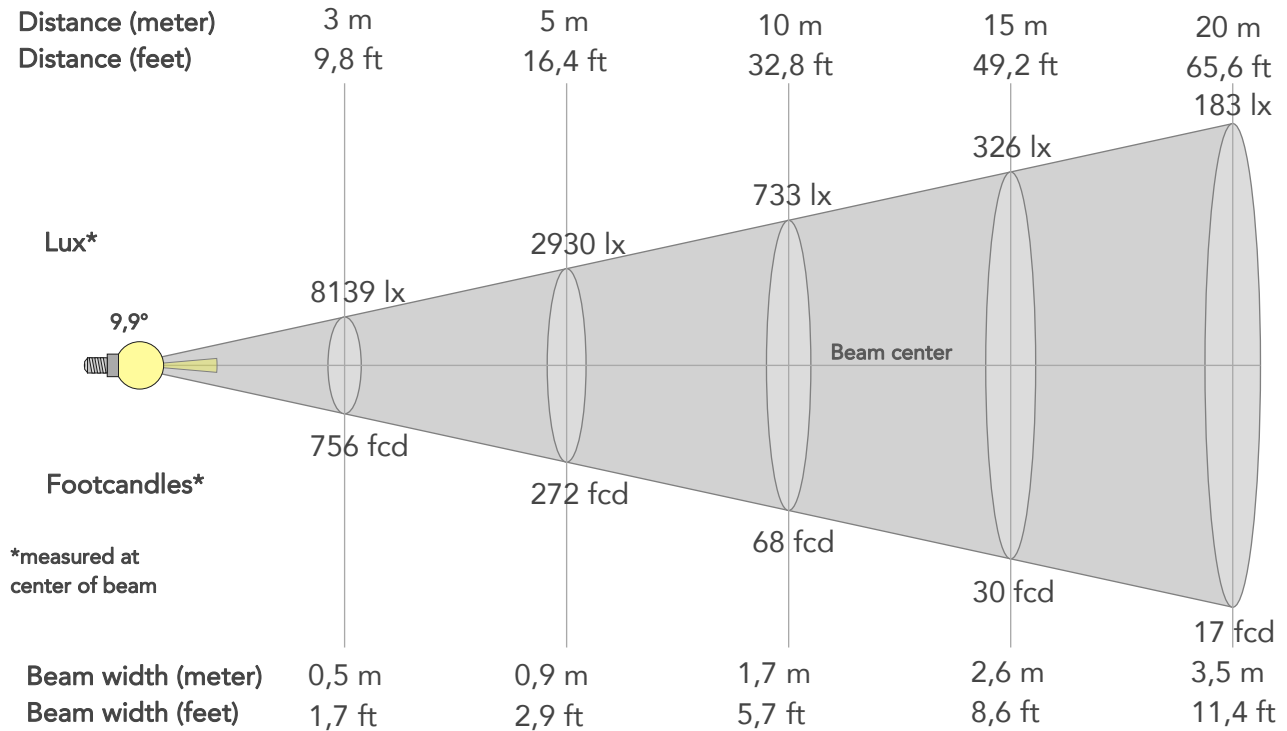
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	96	-1%	1%
3	93	0%	3%
4	94	-1%	2%
5	94	-1%	1%
6	97	2%	0%
7	97	-1%	0%
8	96	-2%	1%
9	93	-2%	5%
10	89	-1%	7%
11	86	2%	9%
12	94	2%	3%
13	94	5%	1%
14	94	3%	-1%
15	88	8%	-8%
16	95	1%	-3%



# BEAM DETAILS



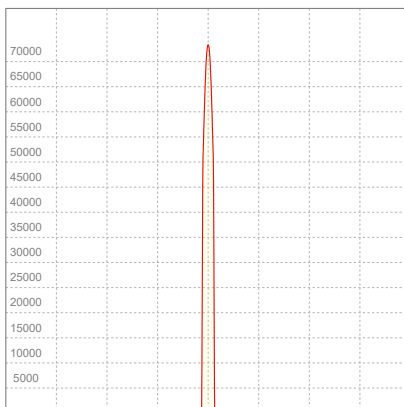
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,9°	11,2°	11,5°	99,3%	99,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	73253lx	18313lx	8139lx	4578lx	2930lx	1302lx	733lx	326lx	183lx	117lx	81lx	46lx	29lx
Footcand.	6805fcd	1701fcd	756fcd	425fcd	272fcd	121fcd	68fcd	30fcd	17fcd	11fcd	8fcd	4fcd	3fcd
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

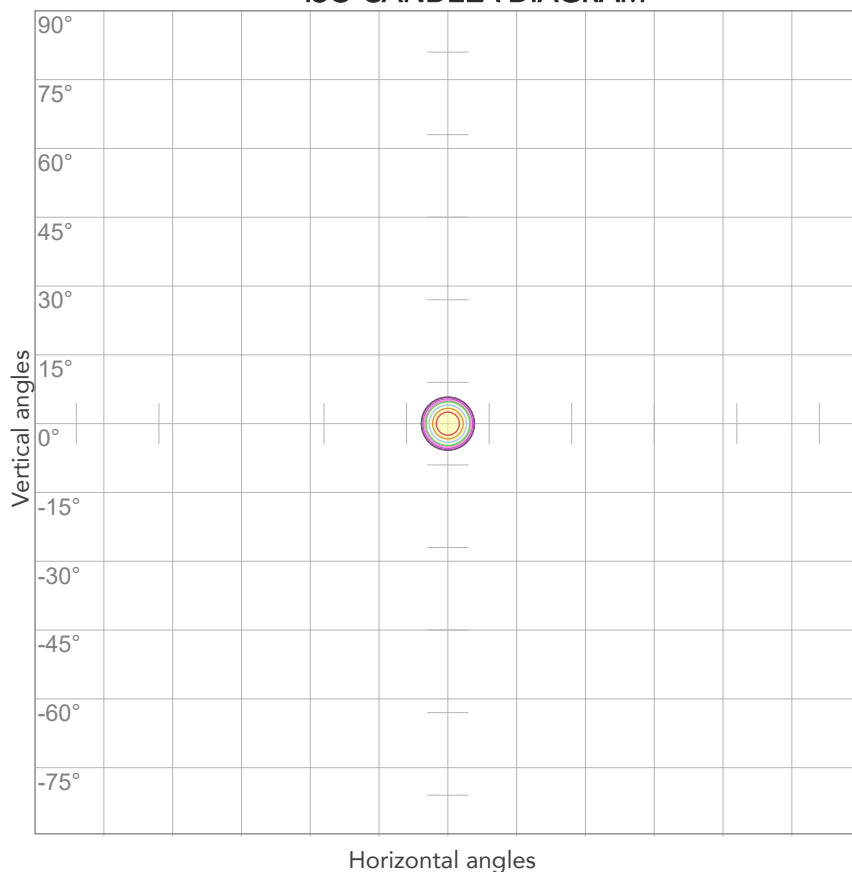


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,154A	33,4W	0,96	48lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



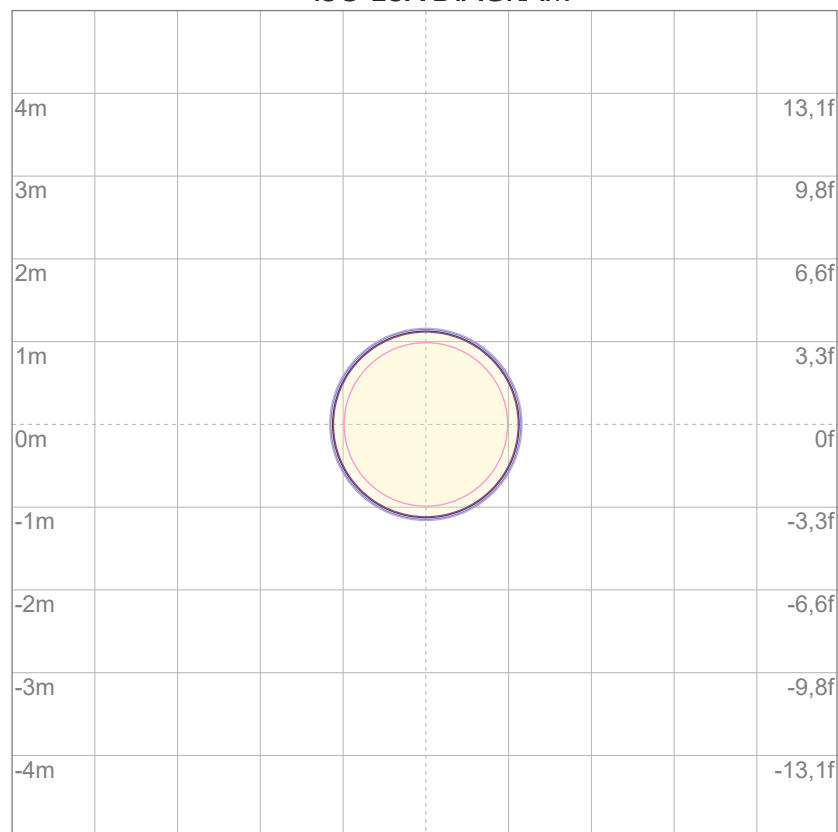
10%	7325 cd
20%	14651 cd
30%	21976 cd
40%	29301 cd
50%	36627 cd
60%	43952 cd
70%	51277 cd
80%	58602 cd

### Conditions:

Number of c-planes: 2

Candela at center: 73253 cd

## ISO LUX DIAGRAM



3%	22,0 lx
5%	36,6 lx
10%	73,3 lx
30%	220 lx
50%	366 lx

### Conditions:

Number of c-planes: 2

Lux at center: 733 lx

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



Total lumen output:

1355 lm

Peak candela output:

5473 cd

Light quality:

CRI: 96,4

Color temperature:

5541 K

**PRODUCT NAME:**

ECLDISPLAYCRMX56K

**MEASURAMENT CONDITIONS:**

Beam angle:

Profile 2040 HD Max Zoom

Target:

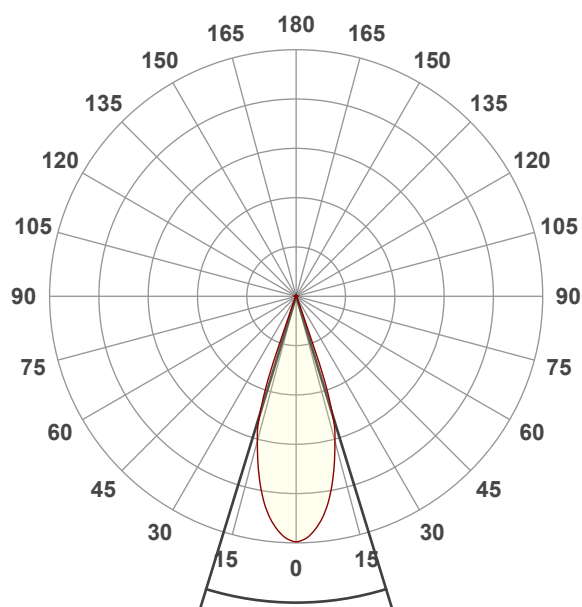
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 14:12:56

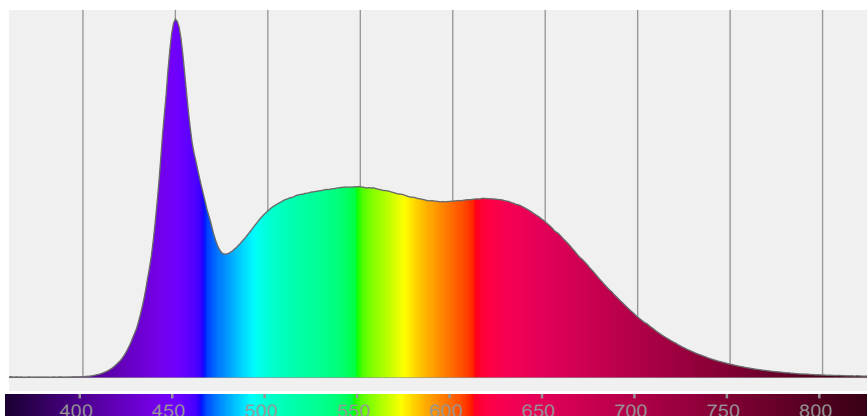


Beam angle 50%: 34,2°

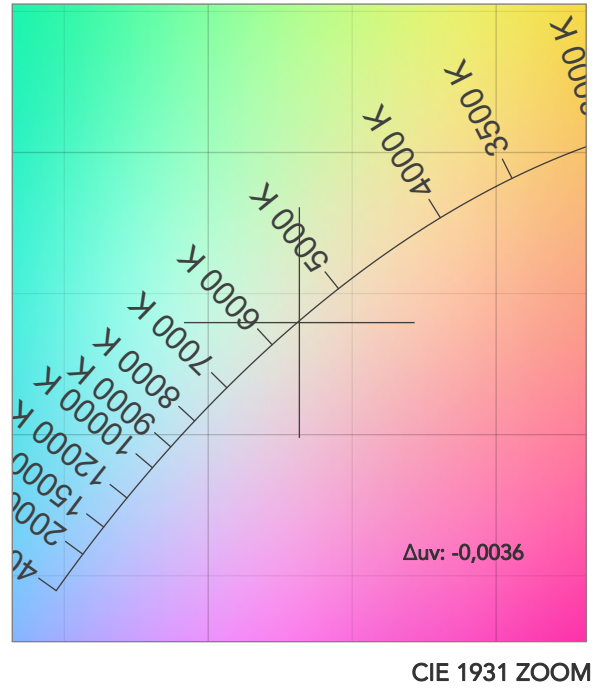
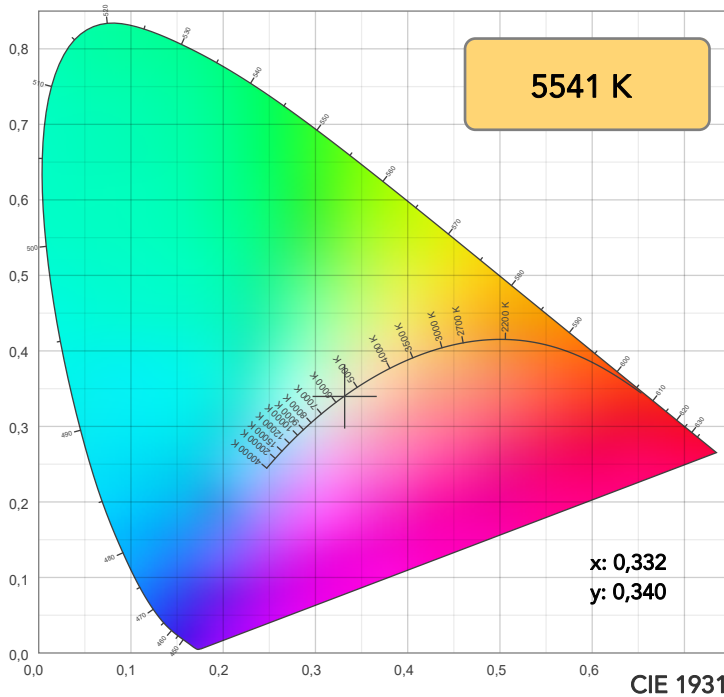
Field angle 10%: 40,9°

Cut off angle 2.5%: 44°

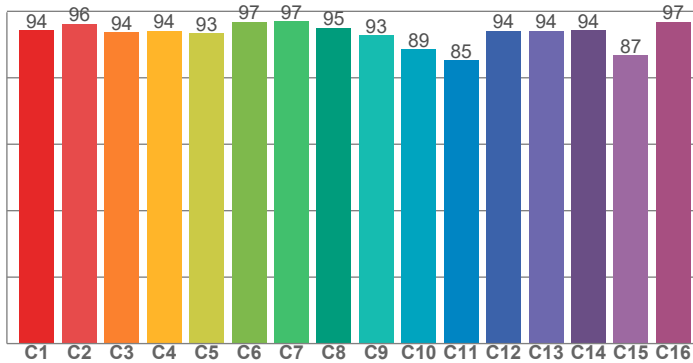
**Spectra**



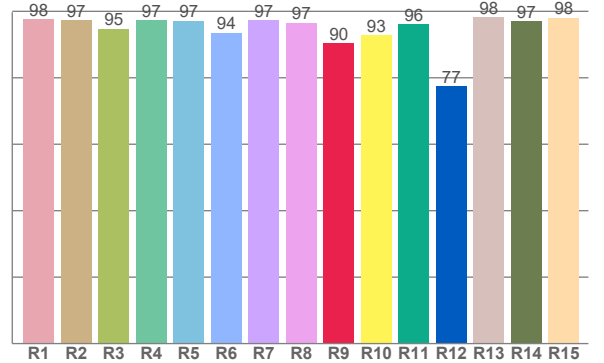
# COLOR DETAILS



TM30: 93,1



CRI: 96,4 (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
97,6	97,4	94,8	97,3	97,1	93,5	97,2	96,6	90,4	92,9	96,1	77,5	98,3	97,0	98,1

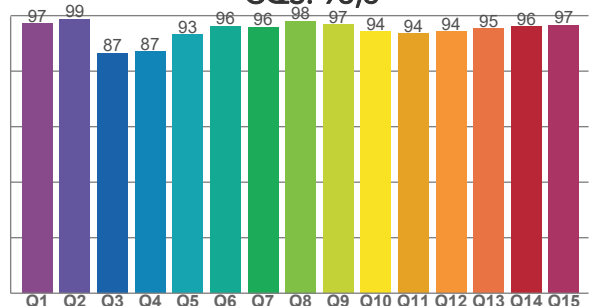
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	96,2	93,7	94,2	93,4	96,9	97,0	95,1	92,7	88,6	85,2	94,0	94,2	94,3	86,7	96,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,1	98,7	86,5	87,0	93,1	96,1	95,9	98,1	96,7	94,2	93,6	94,2	95,4	96,0	96,5

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	$\Delta uv$
5541 K	96,4	90,4	93,1	101,1	93,6	98	0,332	0,340	-0,0036

## TM30 DETAILS

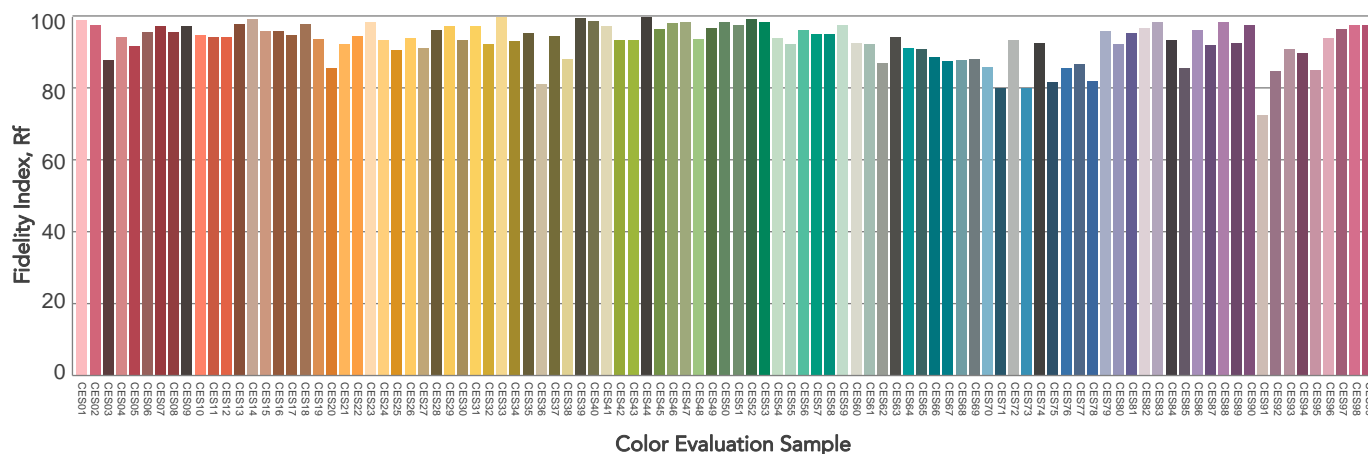
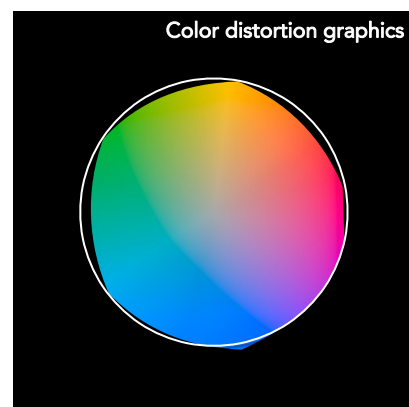
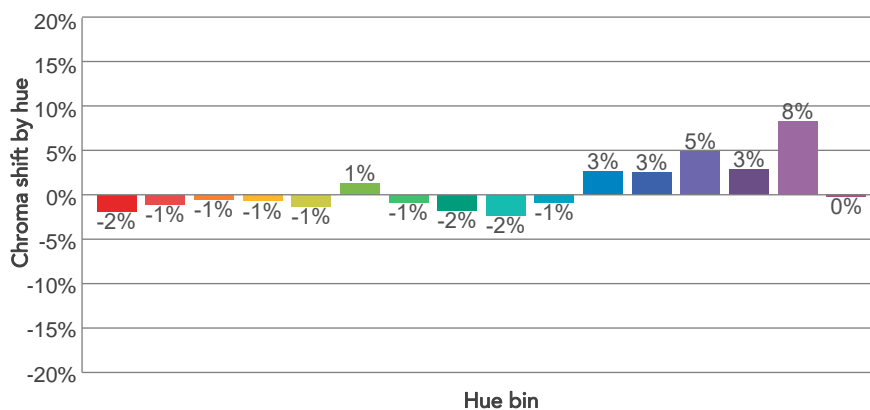
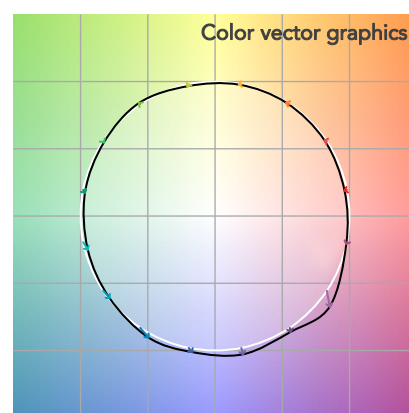
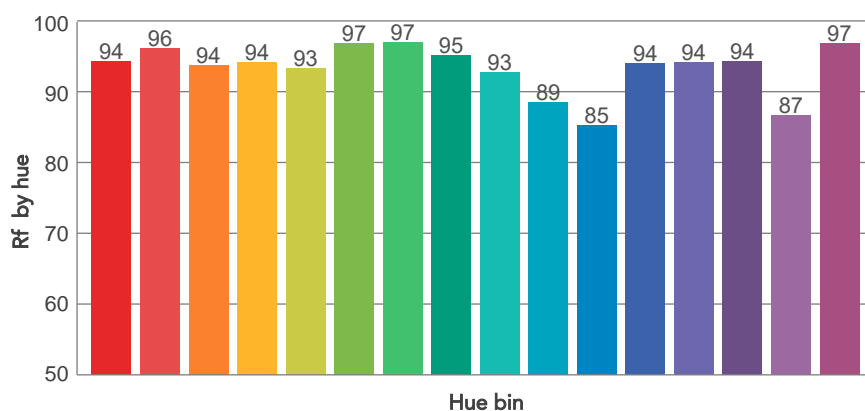
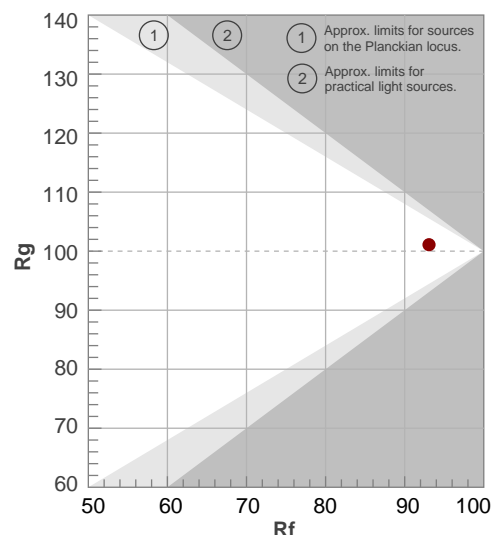
**Rf 93,1**

Fidelity index Rf

**Rg 101,1**

Gammut index

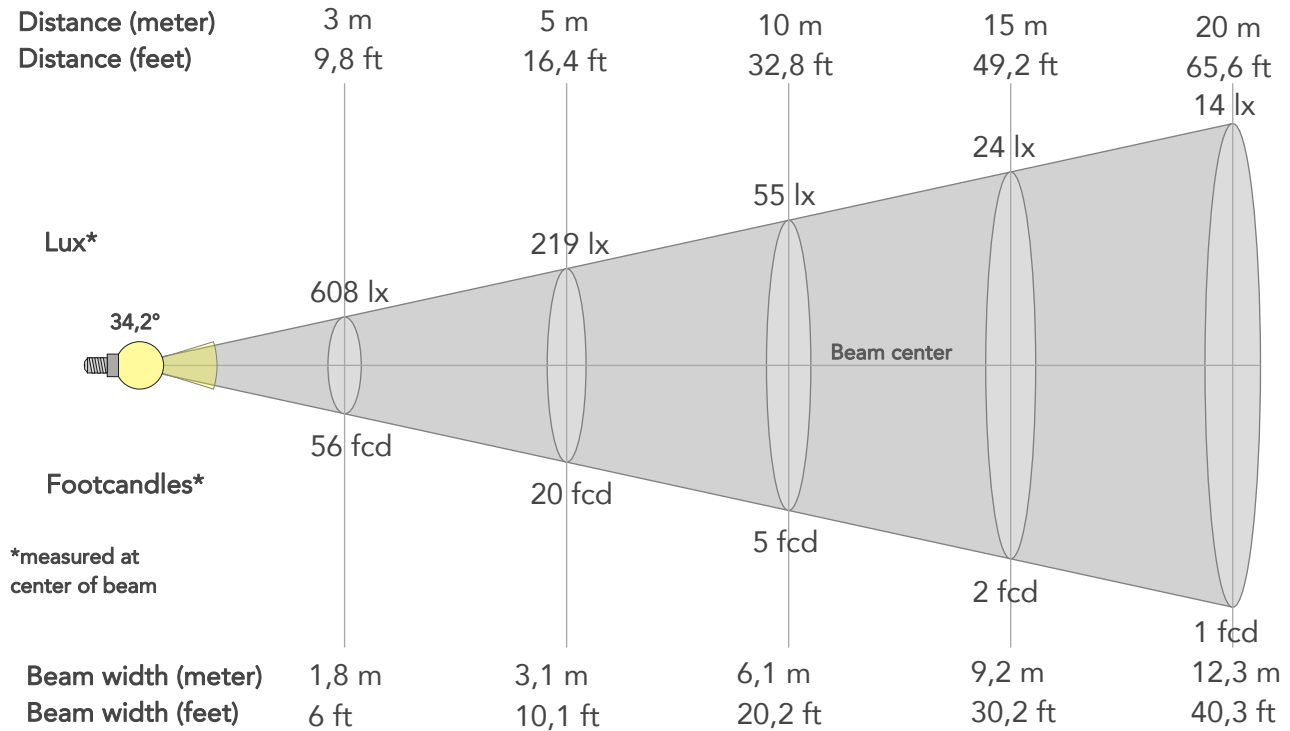
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-2%	0%
2	96	-1%	1%
3	94	-1%	3%
4	94	-1%	2%
5	93	-1%	1%
6	97	1%	0%
7	97	-1%	0%
8	95	-2%	2%
9	93	-2%	6%
10	89	-1%	7%
11	85	3%	9%
12	94	3%	3%
13	94	5%	0%
14	94	3%	-1%
15	87	8%	-9%
16	97	0%	-1%



# BEAM DETAILS



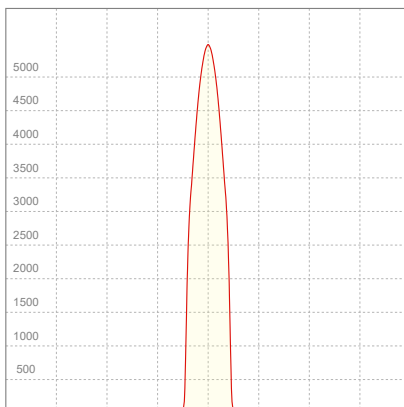
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34,2°	40,9°	44°	99,8%	99,7%



## 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	5473lx	1368lx	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	2,5m	3,1m	4,6m	6,1m	9,2m	12,3m	15,4m	18,4m	24,6m	30,7m
Beam wid.	2ft	4,1ft	6ft	8,1ft	10,1ft	15,1ft	20,2ft	30,2ft	40,3ft	50,4ft	60,5ft	80,6ft	100,8ft

## LINEAR DISTRIBUTION DIAGRAM

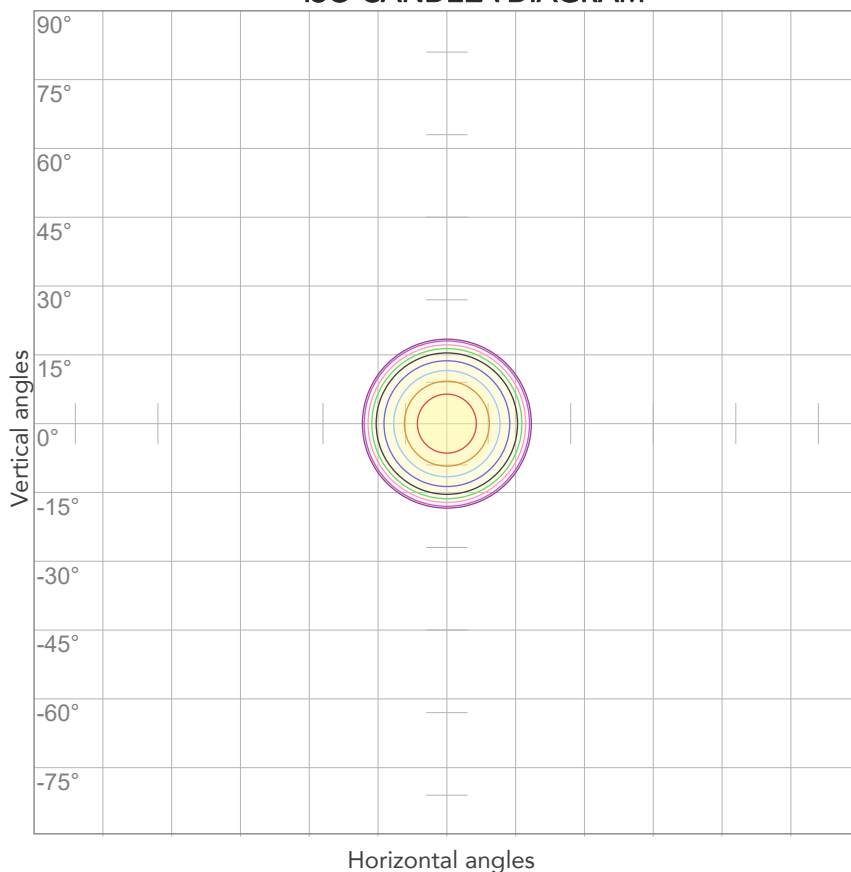


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,154A	33,4W	0,96	41lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



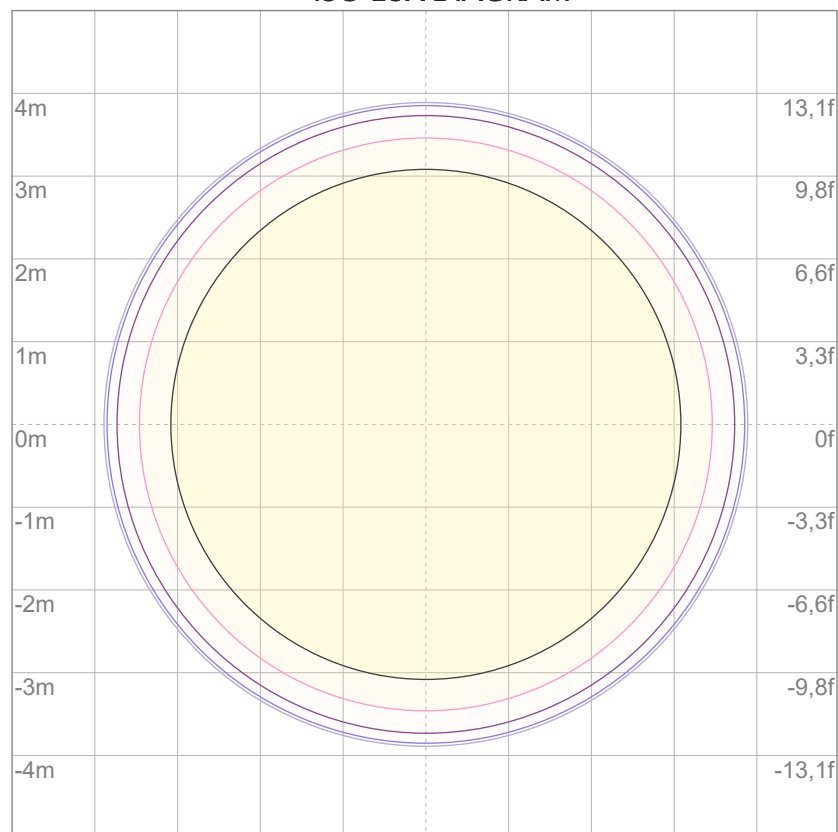
10%	547 cd
20%	1095 cd
30%	1642 cd
40%	2189 cd
50%	2736 cd
60%	3284 cd
70%	3831 cd
80%	4378 cd

### Conditions:

Number of c-planes: 2

Candela at center: 5473 cd

## ISO LUX DIAGRAM



3%	1,64 lx
5%	2,74 lx
10%	5,47 lx
30%	16,4 lx
50%	27,4 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:

1383 lm

Peak candela output:

19962 cd

Light quality:

CRI: 96,8

Color temperature:

5520 K

**PRODUCT NAME:**

ECLDISPLAYCRMX56K

**MEASURAMENT CONDITIONS:**

Beam angle:

Profile 2040 HD Min Zoom

Target:

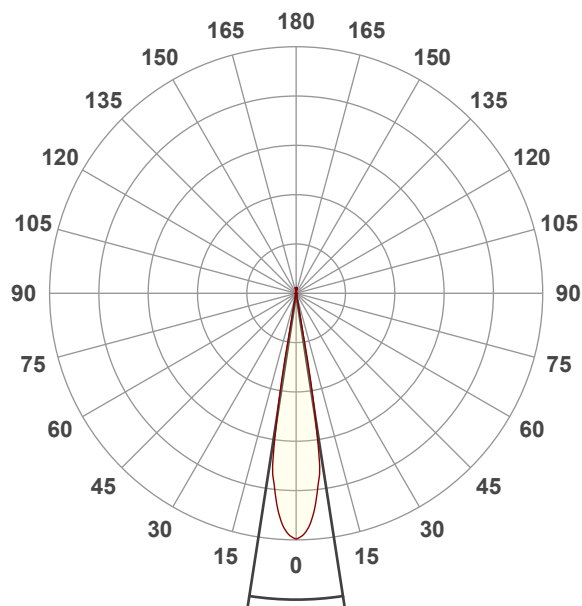
Full On

Operator:

Giacomo Matteo

Date and time:

18/06/2024 14:15:02

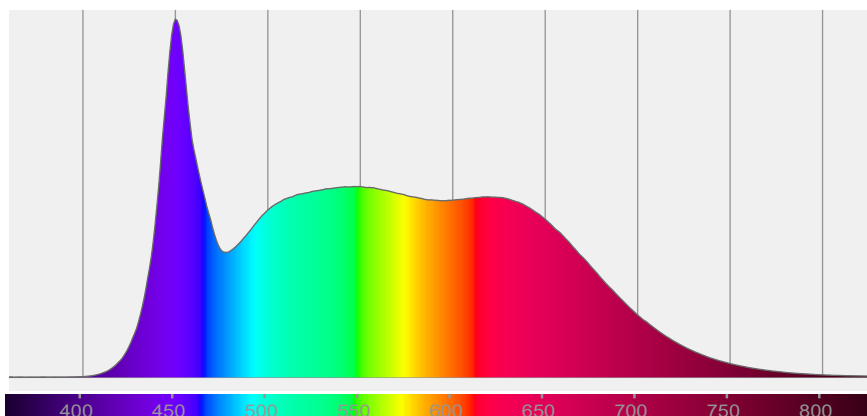


Beam angle 50%: 17,6°

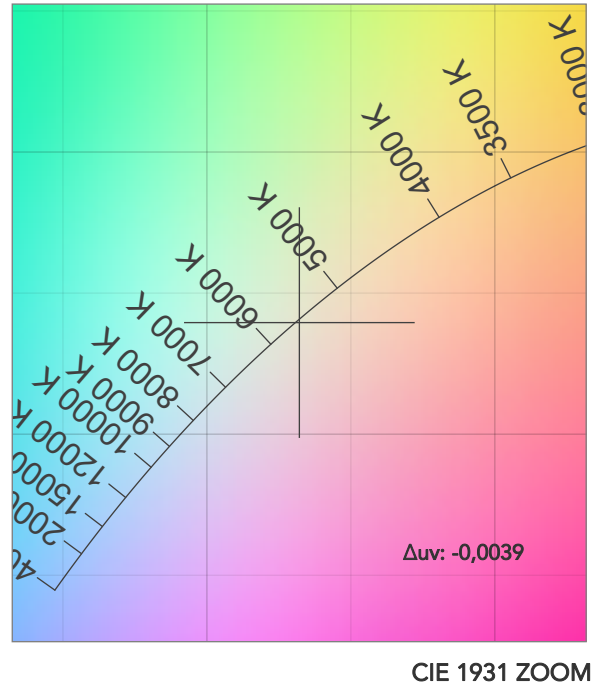
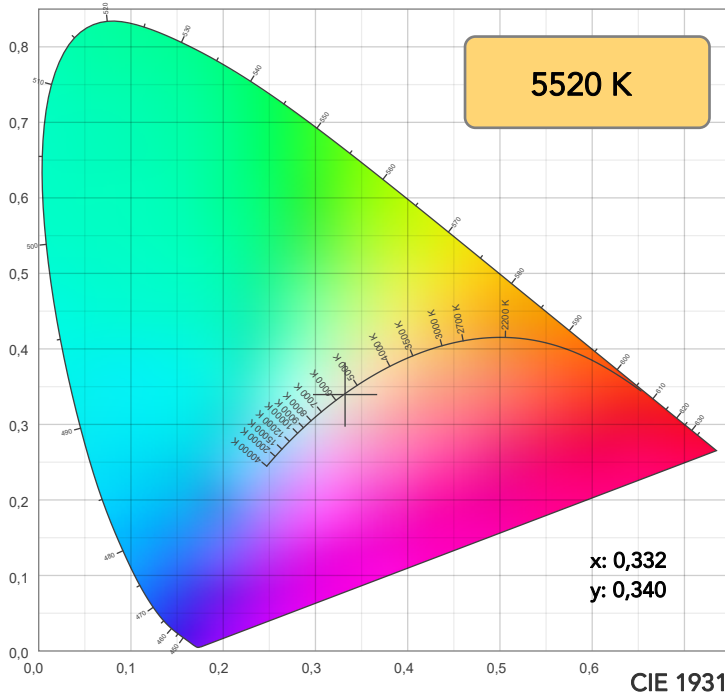
Field angle 10%: 21°

Cut off angle 2.5%: 21,7°

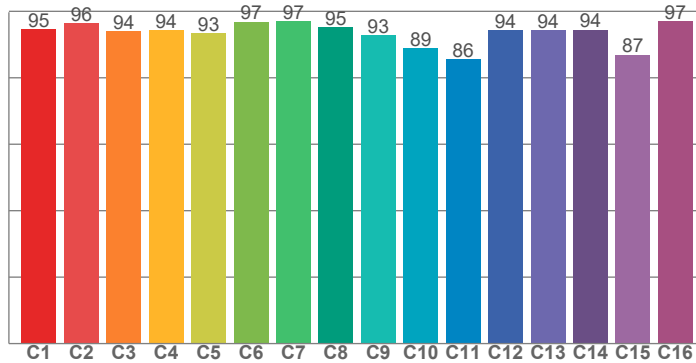
**Spectra**



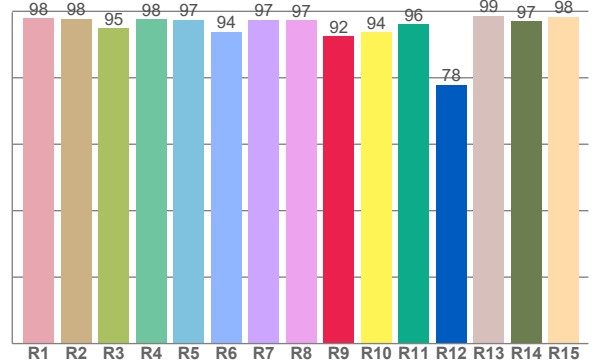
# COLOR DETAILS



TM30: 93,2



CRI: 96,8 (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
97,9	97,7	95,0	97,5	97,5	93,8	97,5	97,3	92,5	93,7	96,1	77,9	98,7	97,0	98,4

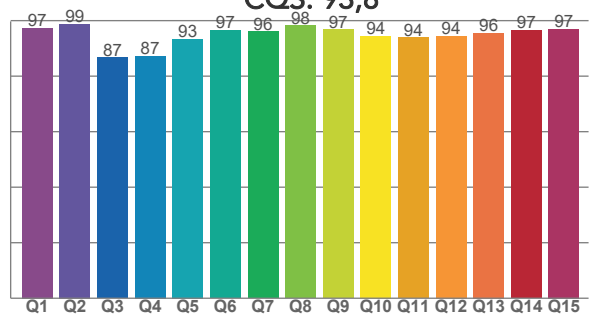
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,5	96,4	94,0	94,3	93,4	96,9	96,9	95,1	92,8	88,8	85,5	94,2	94,3	94,4	86,9	97,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,3	98,7	86,8	87,3	93,4	96,5	96,1	98,3	96,7	94,5	93,9	94,5	95,6	96,5	97,0

CQS: 93,8



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
5520 K	96,8	92,5	93,2	101,2	93,8	98	0,332	0,340	-0,0039

## TM30 DETAILS

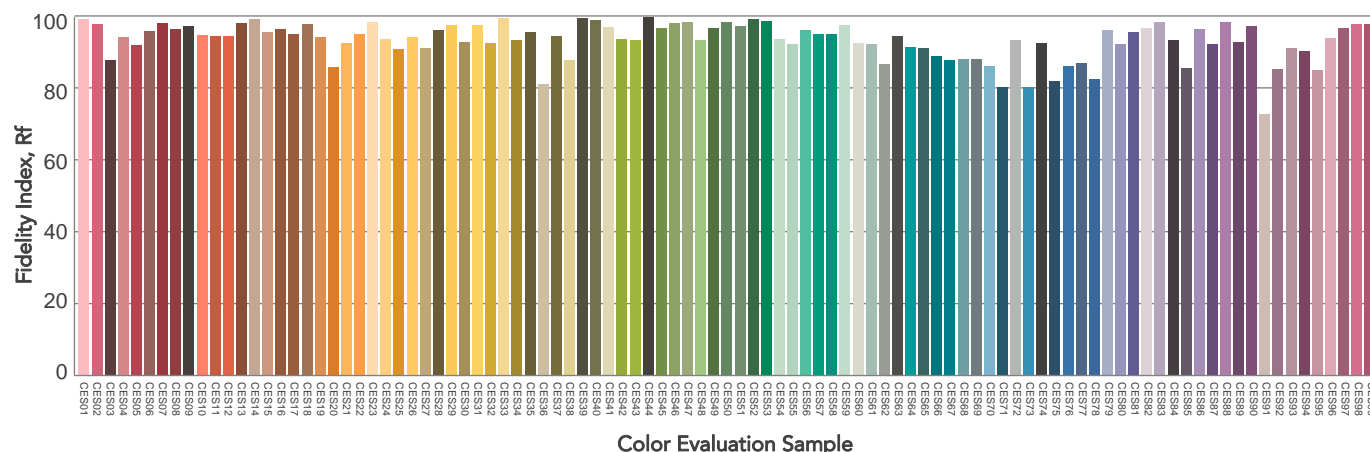
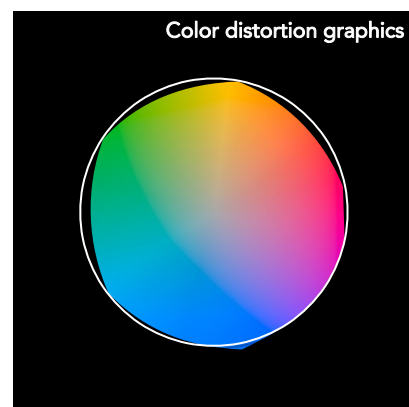
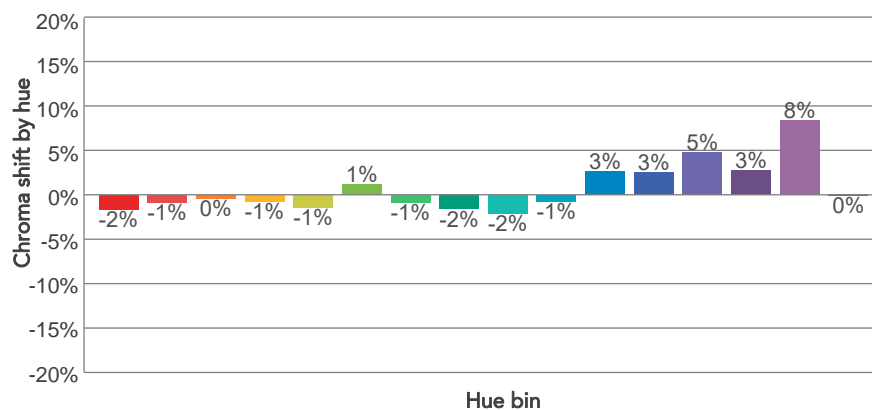
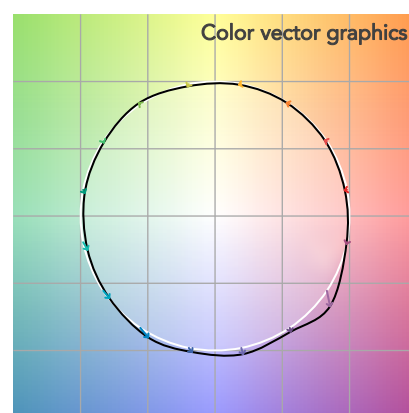
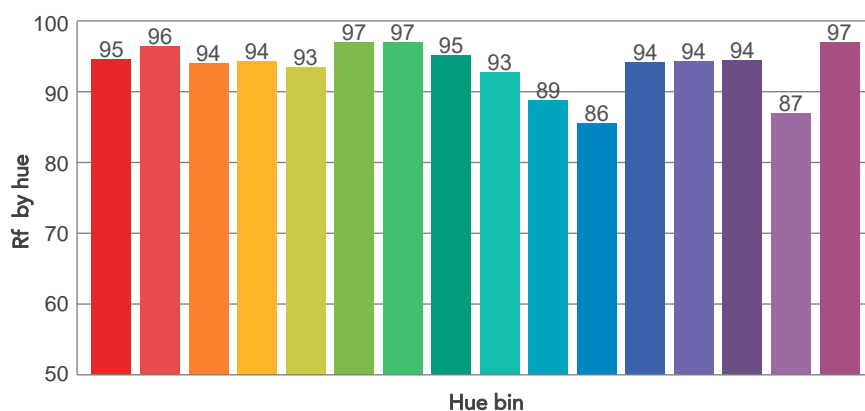
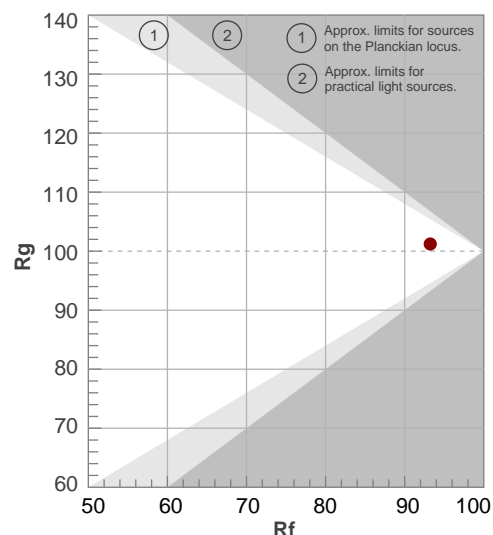
**Rf 93,2**

Fidelity index Rf

**Rg 101,2**

Gammut index

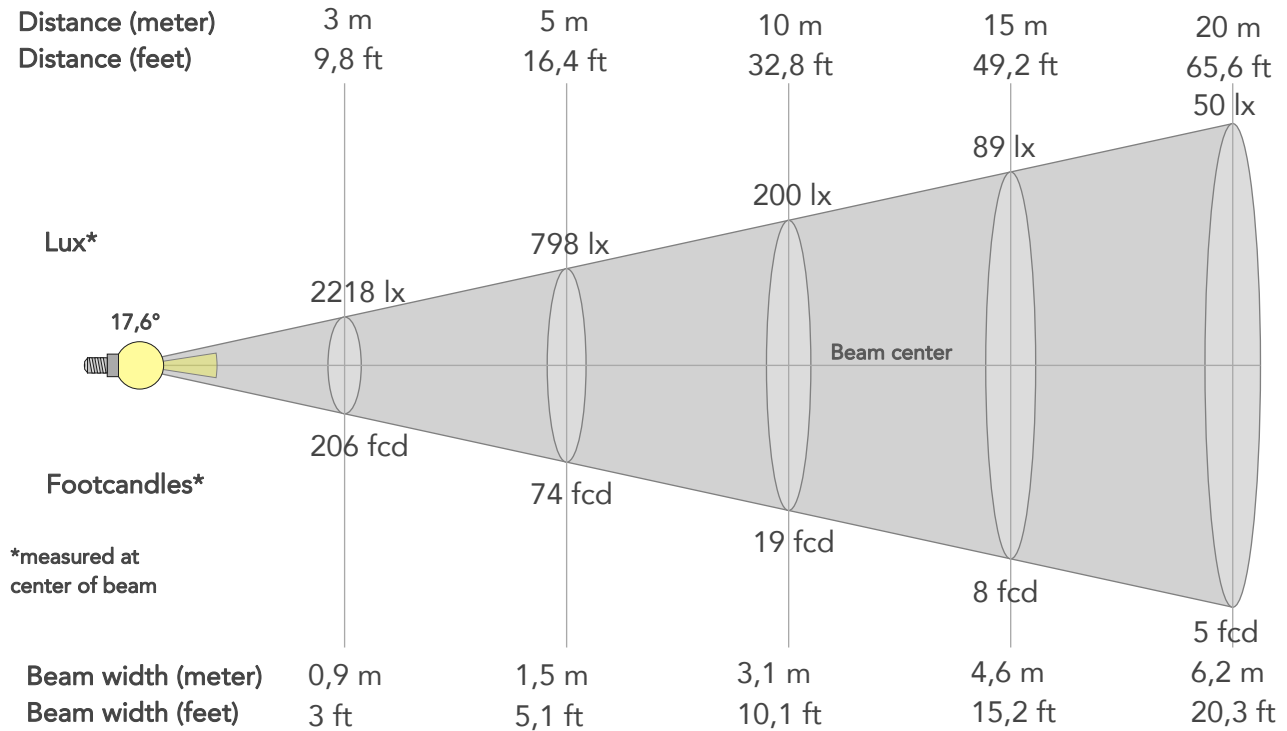
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	96	-1%	1%
3	94	0%	2%
4	94	-1%	2%
5	93	-1%	1%
6	97	1%	1%
7	97	-1%	1%
8	95	-2%	2%
9	93	-2%	6%
10	89	-1%	7%
11	86	3%	9%
12	94	3%	3%
13	94	5%	0%
14	94	3%	-1%
15	87	8%	-8%
16	97	0%	-1%



# BEAM DETAILS



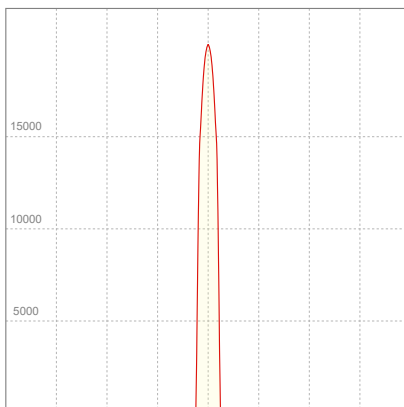
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,6°	21°	21,7°	99,6%	99,4%



## 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	19962lx	4991lx	2218lx	1248lx	798lx	355lx	200lx	89lx	50lx	32lx	22lx	12lx	8lx
Footcand.	1855fcd	464fcd	206fcd	116fcd	74fcd	33fcd	19fcd	8fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3,1m	4,6m	6,2m	7,7m	9,3m	12,4m	15,5m
Beam wid.	1ft	2ft	3ft	4,1ft	5,1ft	7,6ft	10,1ft	15,2ft	20,3ft	25,4ft	30,4ft	40,6ft	50,7ft

## LINEAR DISTRIBUTION DIAGRAM

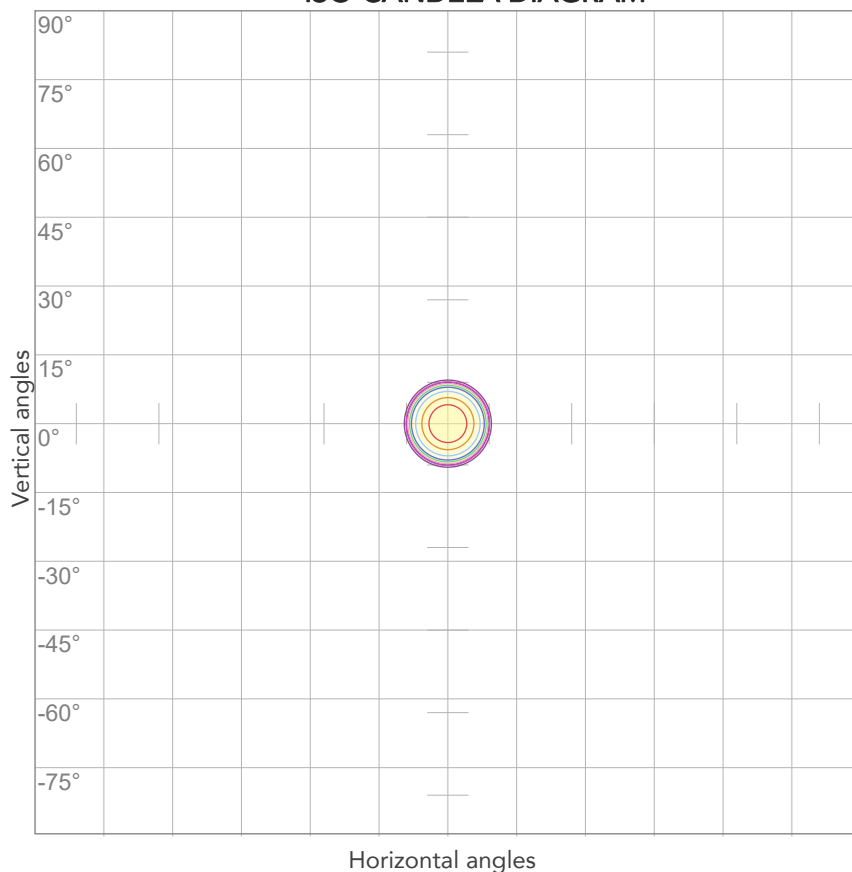


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,154A	33,3W	0,96	42lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



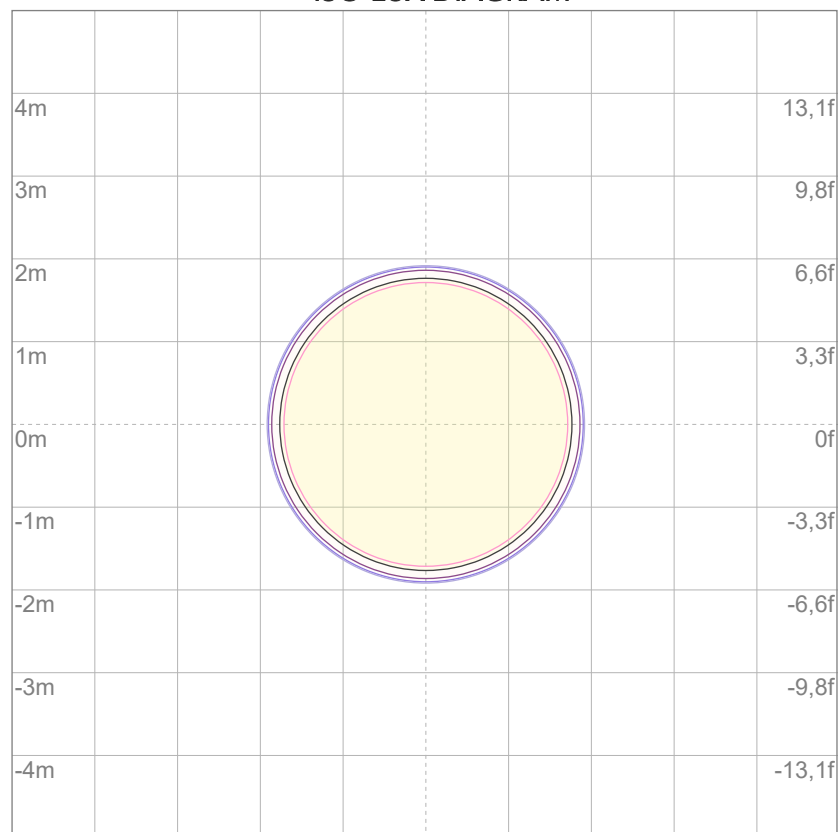
10%	1996 cd
20%	3992 cd
30%	5989 cd
40%	7985 cd
50%	9981 cd
60%	11977 cd
70%	13974 cd
80%	15970 cd

### Conditions:

Number of c-planes: 2

Candela at center: 19962 cd

## ISO LUX DIAGRAM



3%	5,99 lx
5%	9,98 lx
10%	20,0 lx
30%	59,9 lx
50%	99,8 lx

### Conditions:

Number of c-planes: 2

Lux at center: 200 lx

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



Total lumen output:

1843 lm

Peak candela output:

6518 cd

Light quality:

CRI: 95,7

Color temperature:

4978 K

**PRODUCT NAME:**  
ECLDISPLAYCRMX56K

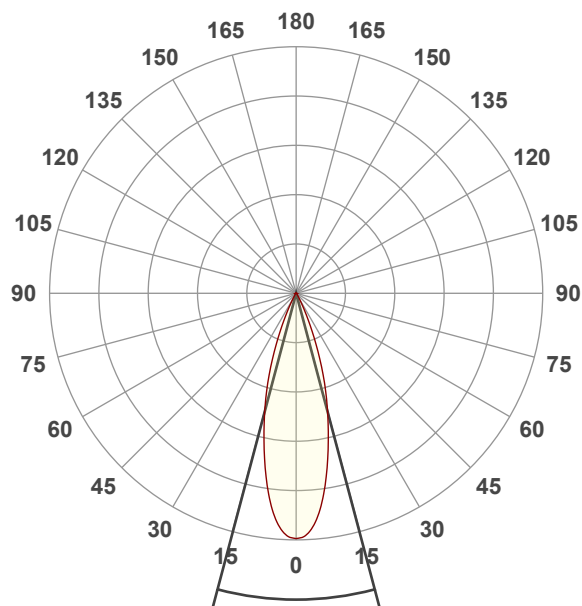
**MEASURAMENT CONDITIONS:**

Beam angle:  
Wash 1530 Max Zoom

Target:  
Full On

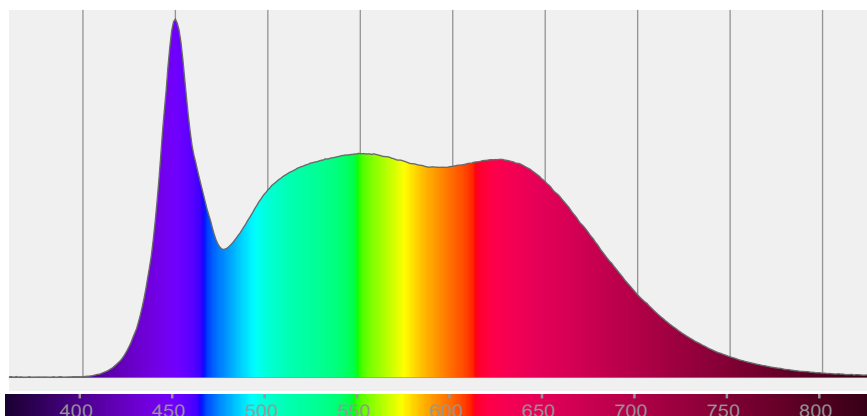
Operator:  
Giacomo Matteo

Date and time:  
18/06/2024 14:00:07

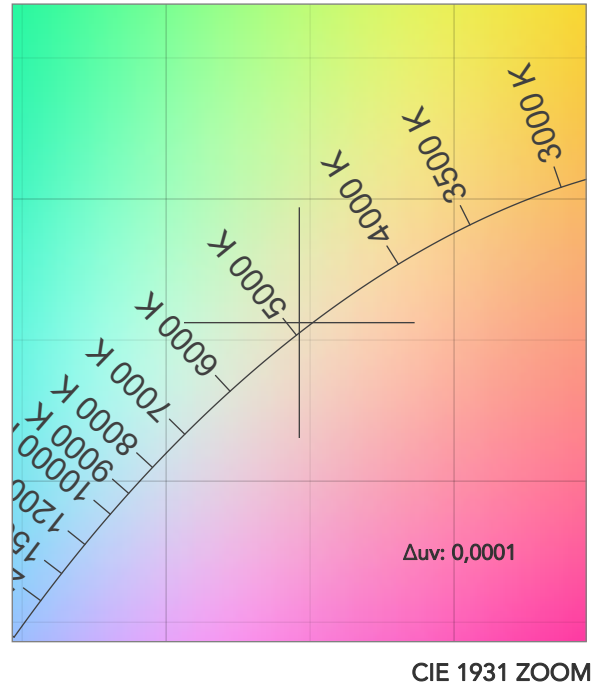
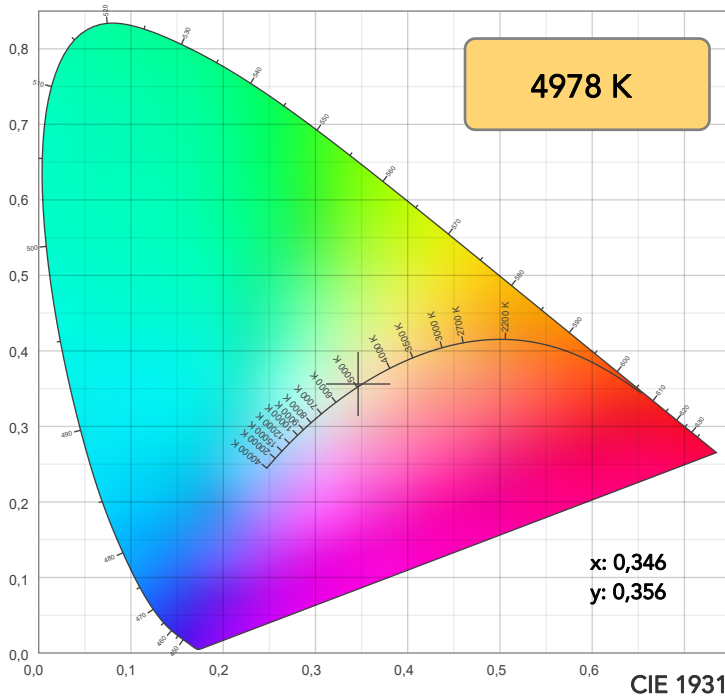


Beam angle 50%: 29,7°  
Field angle 10%: 50,3°  
Cut off angle 2.5%: 61,4°

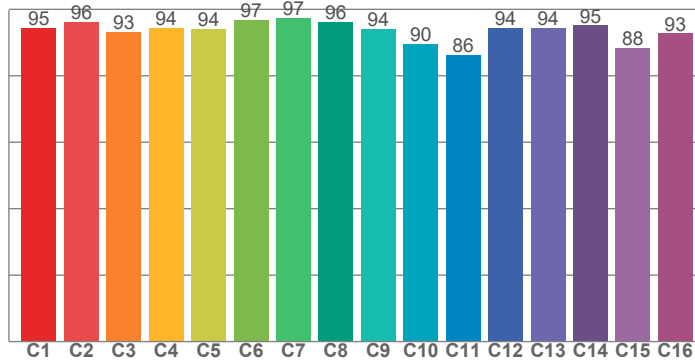
Spectra



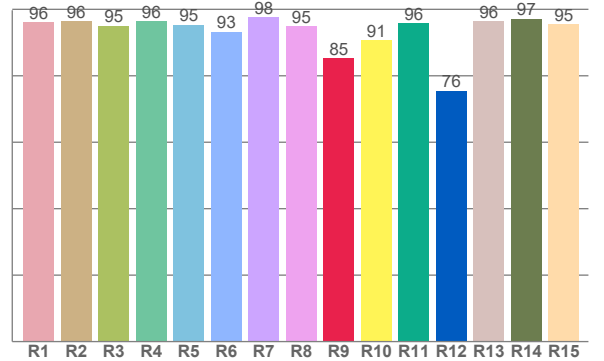
# COLOR DETAILS



TM30: 93,4



CRI: 95,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,2	96,5	95,1	96,4	95,3	93,2	97,7	95,0	85,3	90,8	95,8	75,5	96,4	97,2	95,5

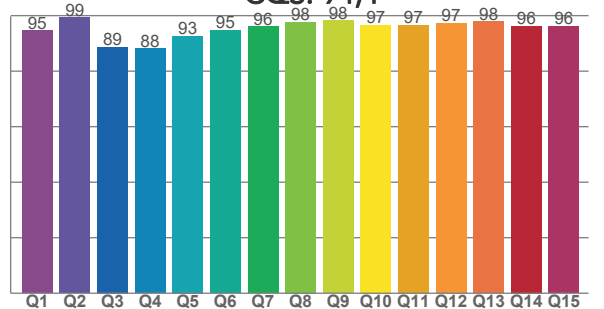
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,5	96,3	93,3	94,5	94,2	96,8	97,4	96,2	94,0	89,6	86,4	94,5	94,4	95,2	88,3	92,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,6	99,3	88,6	88,1	92,7	94,7	96,1	97,7	98,2	96,7	96,7	97,4	97,9	96,3	96,2

CQS: 94,4



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4978 K	95,7	85,3	93,4	100,9	94,4	98	0,346	0,356	0,0001

## TM30 DETAILS

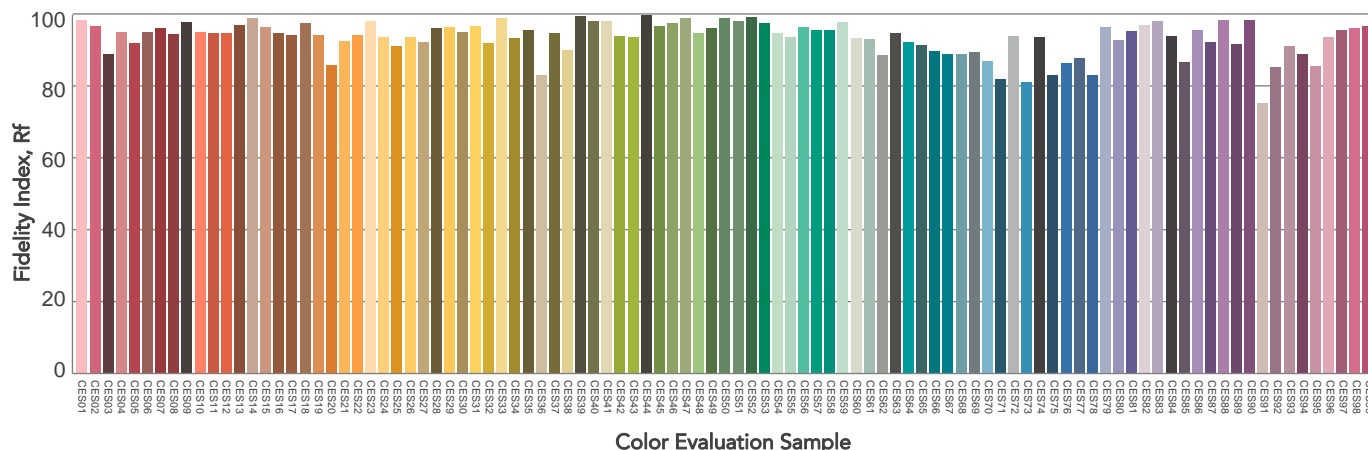
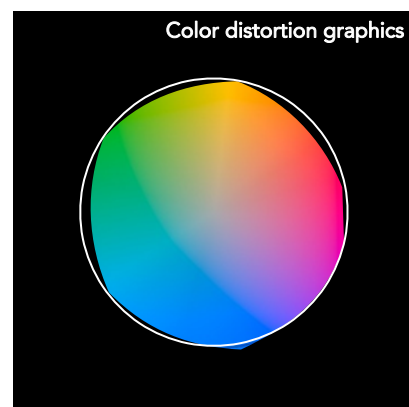
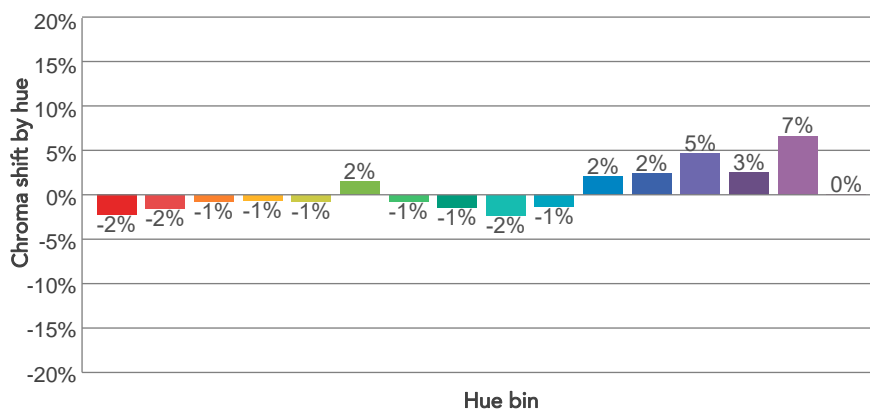
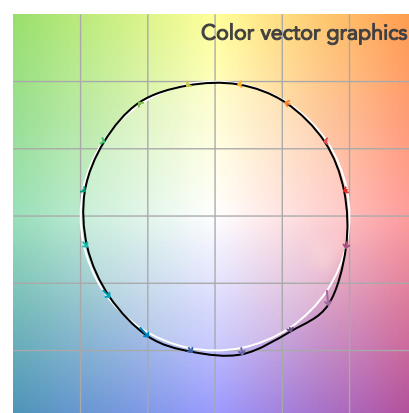
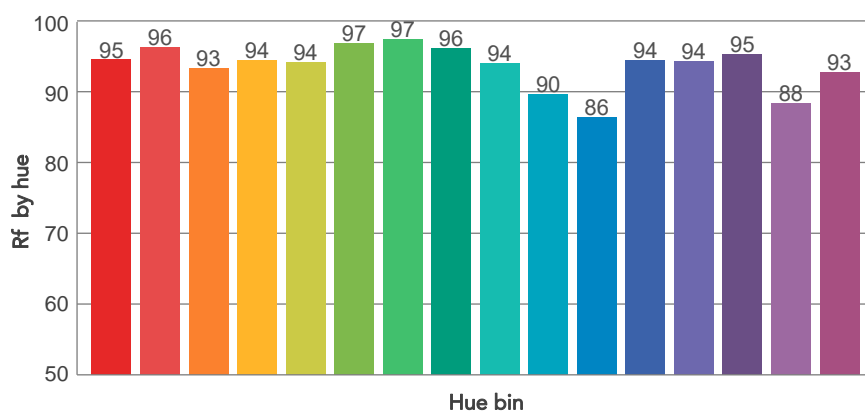
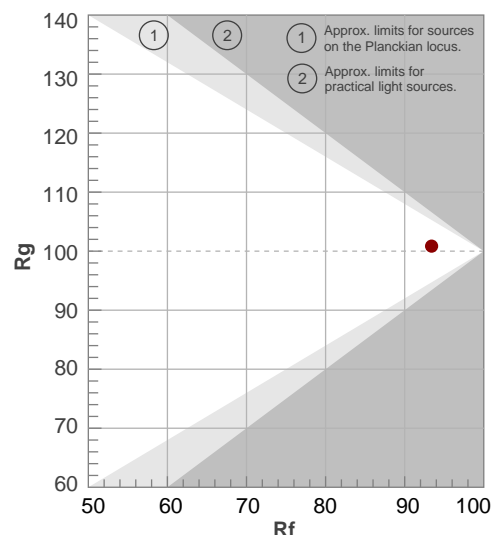
**Rf 93,4**

Fidelity index Rf

**Rg 100,9**

Gammut index

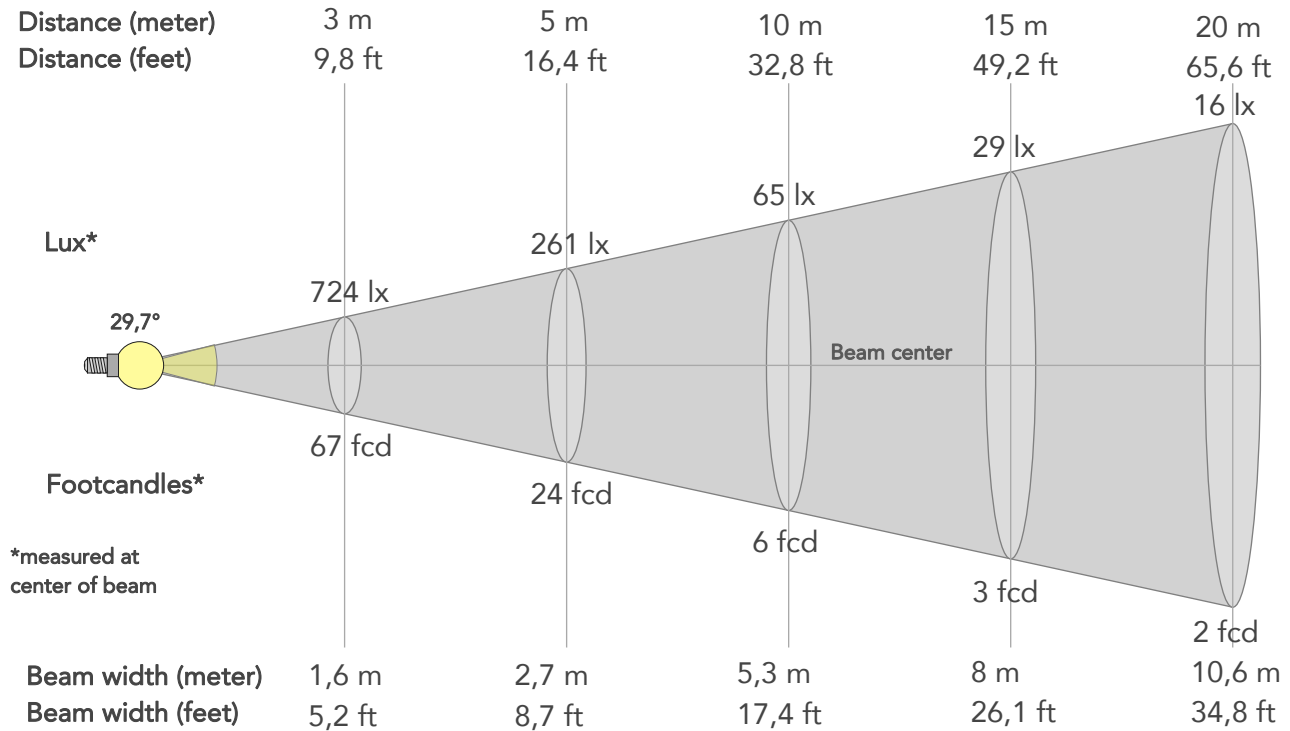
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	-1%
2	96	-2%	1%
3	93	-1%	3%
4	94	-1%	2%
5	94	-1%	2%
6	97	2%	0%
7	97	-1%	0%
8	96	-1%	1%
9	94	-2%	4%
10	90	-1%	6%
11	86	2%	8%
12	94	2%	3%
13	94	5%	0%
14	95	3%	-1%
15	88	7%	-8%
16	93	0%	-4%





# BEAM DETAILS

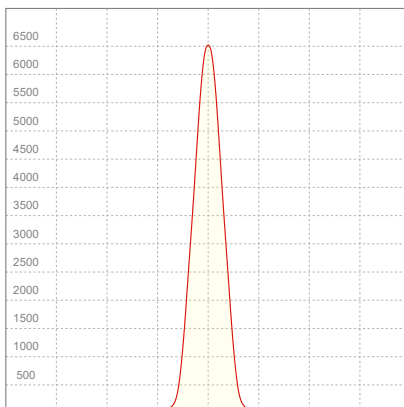
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29,7°	50,3°	61,4°	99,5%	98,5%



## 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	6518lx	1629lx	724lx	407lx	261lx	116lx	65lx	29lx	16lx	10lx	7lx	4lx	3lx
Footcand.	606fcd	151fcd	67fcd	38fcd	24fcd	11fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,1m	2,7m	4m	5,3m	8m	10,6m	13,3m	15,9m	21,2m	26,5m
Beam wid.	1,8ft	3,5ft	5,2ft	7ft	8,7ft	13,1ft	17,4ft	26,1ft	34,8ft	43,5ft	52,2ft	69,7ft	87,1ft

## LINEAR DISTRIBUTION DIAGRAM

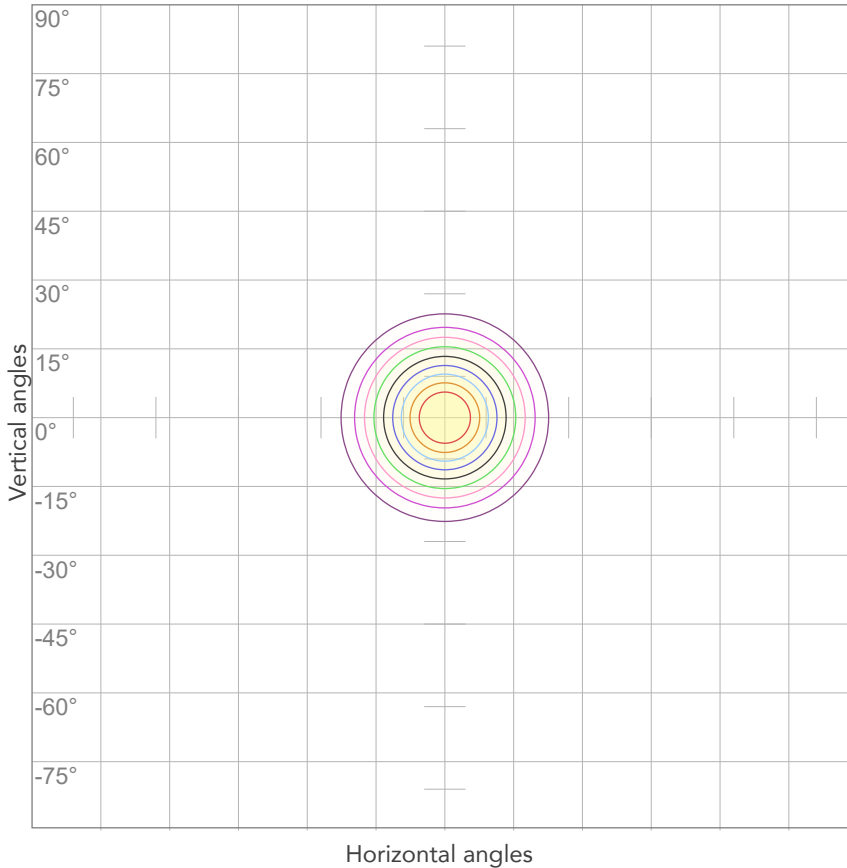


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,155A	33,7W	0,96	55lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



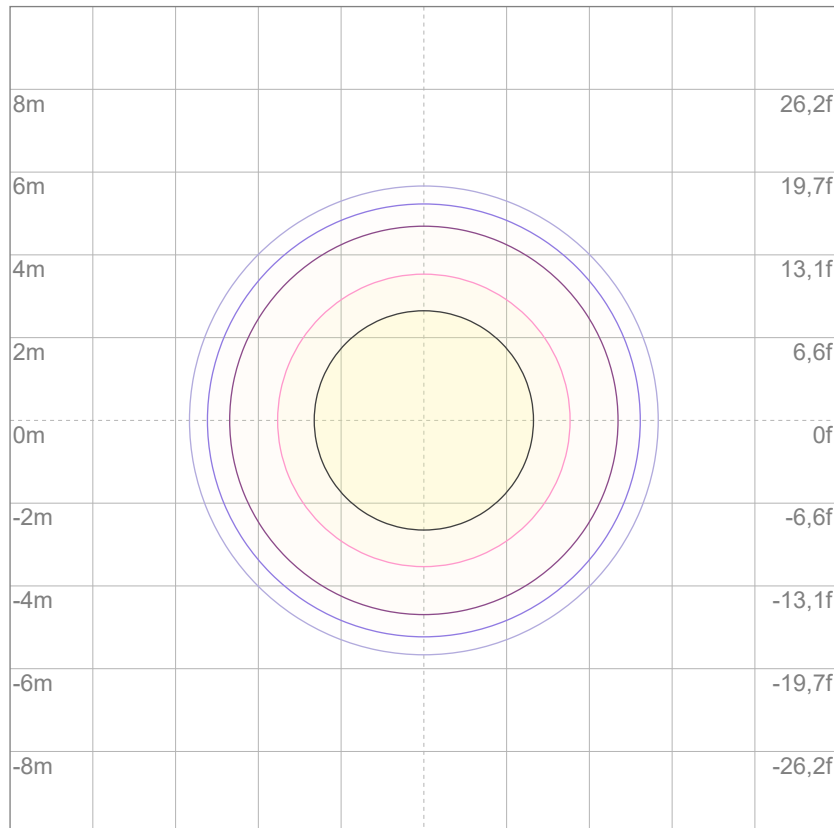
10%	652 cd
20%	1304 cd
30%	1955 cd
40%	2607 cd
50%	3259 cd
60%	3911 cd
70%	4563 cd
80%	5214 cd

### Conditions:

Number of c-planes: 2

Candela at center: 6518 cd

## ISO LUX DIAGRAM



3%	1,96 lx
5%	3,26 lx
10%	6,52 lx
30%	19,6 lx
50%	32,6 lx

### Conditions:

Number of c-planes: 2

Lux at center: 65,2 lx

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



Total lumen output:

1493 lm

Peak candela output:

17990 cd

Light quality:

CRI: 96,0

Color temperature:

4984 K

**PRODUCT NAME:**  
ECLDISPLAYCRM56K

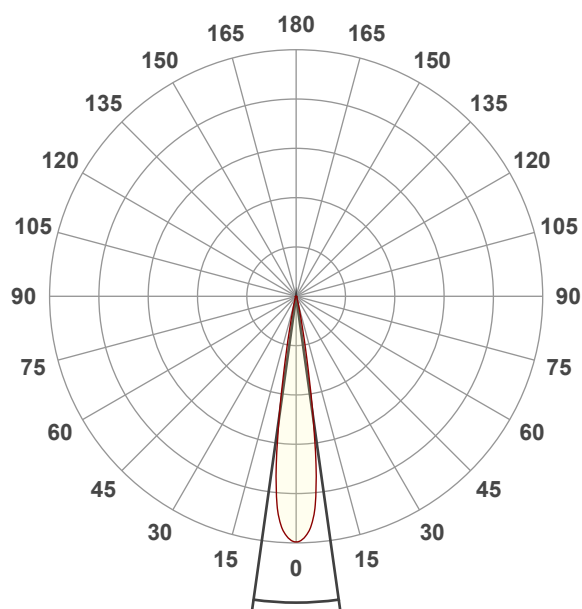
**MEASURAMENT CONDITIONS:**

Beam angle:  
Wash 1530 Min Zoom

Target:  
Full On

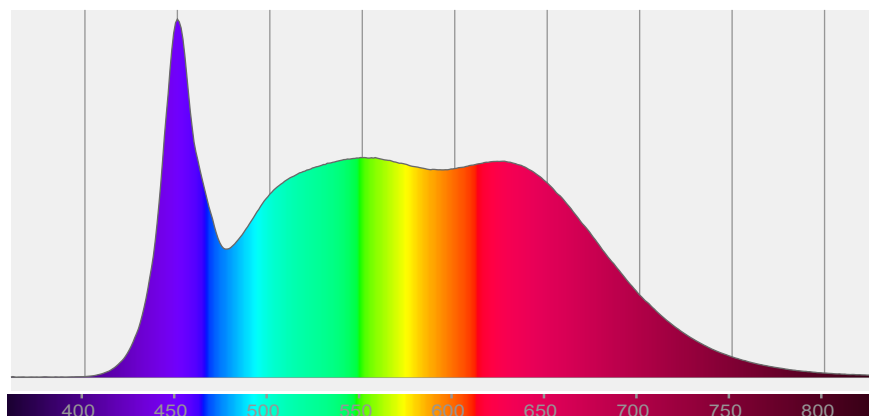
Operator:  
Giacomo Matteo

Date and time:  
18/06/2024 14:02:15

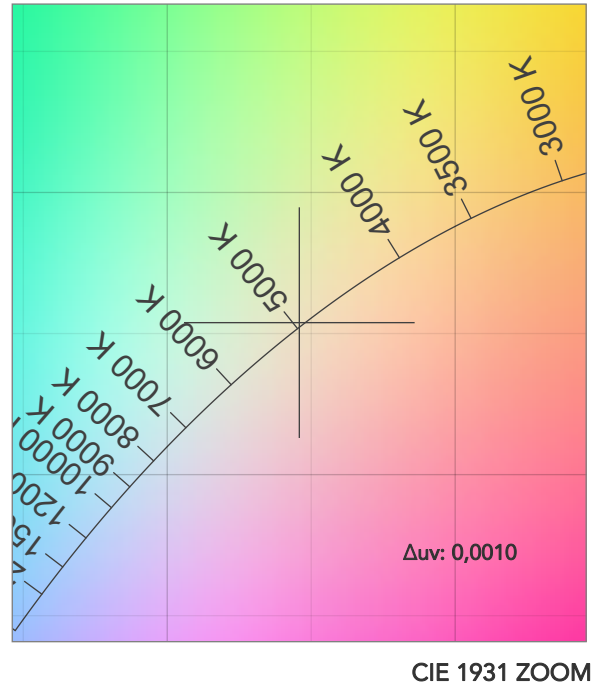
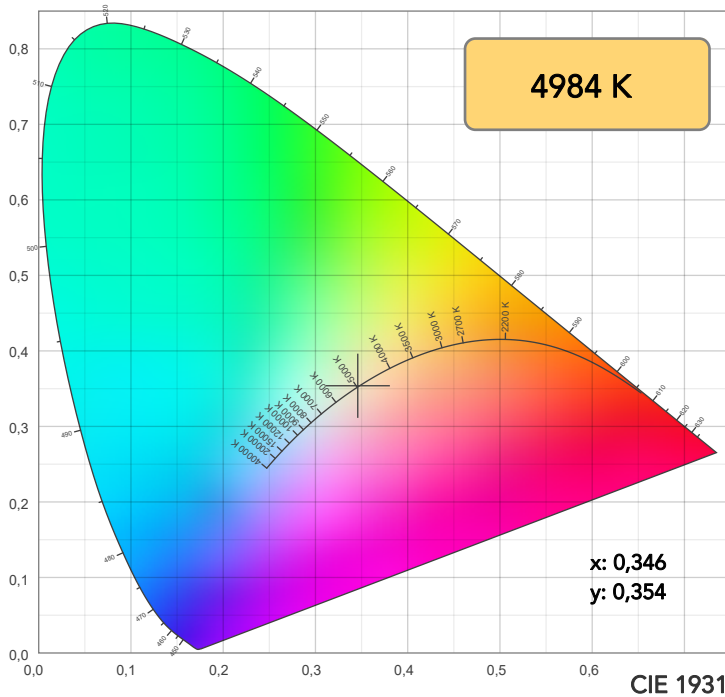


Beam angle 50%: 16°  
Field angle 10%: 24,3°  
Cut off angle 2.5%: 34,1°

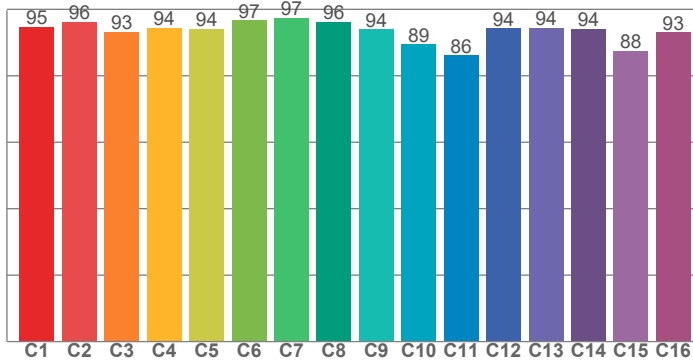
Spectra



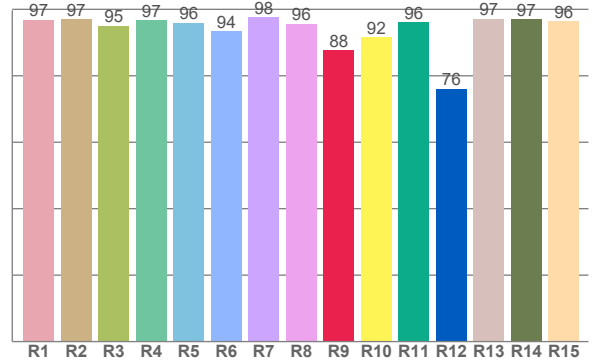
# COLOR DETAILS



TM30: 93,4



CRI: 96,0 (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
96,8	96,9	95,0	96,8	96,0	93,5	97,7	95,7	87,7	91,7	96,0	76,1	97,1	97,1	96,5

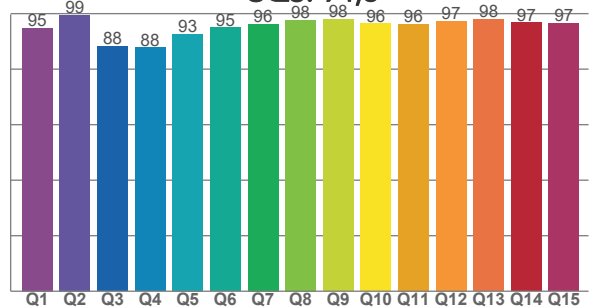
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,8	96,3	93,2	94,3	94,0	96,7	97,4	96,2	94,0	89,5	86,2	94,3	94,3	94,2	87,6	93,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,9	99,4	88,2	87,7	92,6	94,9	96,2	97,8	98,0	96,5	96,3	97,3	98,0	96,8	96,5

CQS: 94,3



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4984 K	96,0	87,7	93,4	101,3	94,3	98	0,346	0,354	0,0010

## TM30 DETAILS

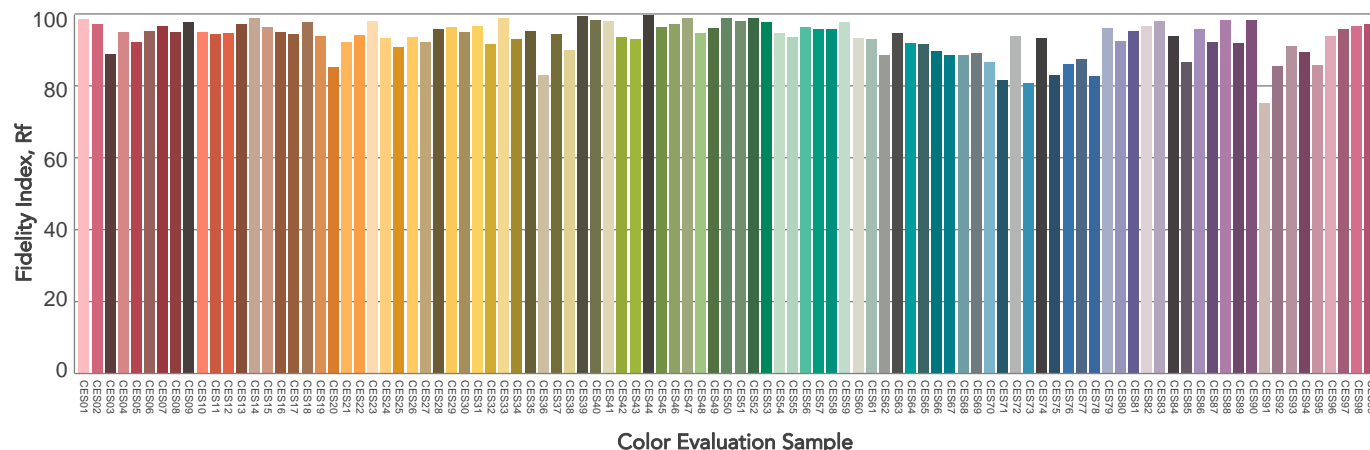
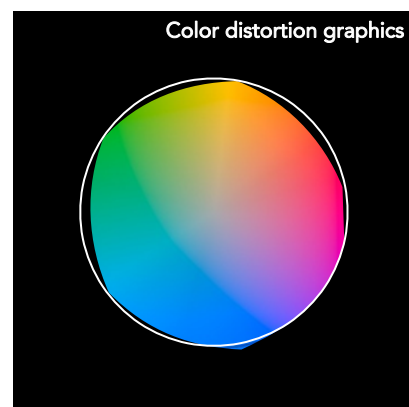
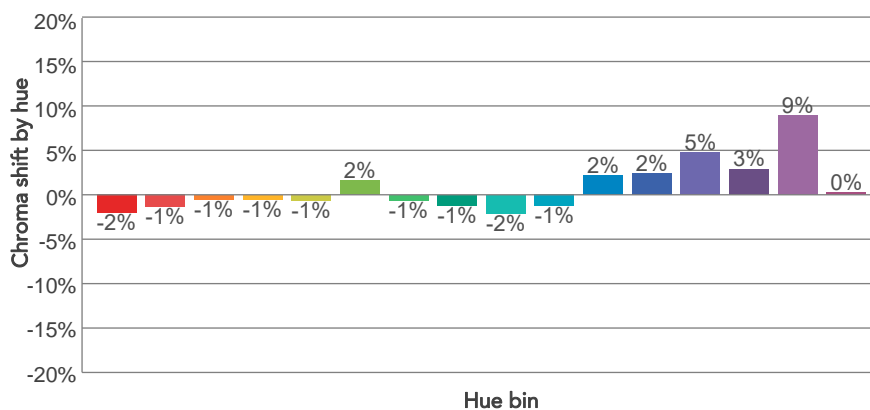
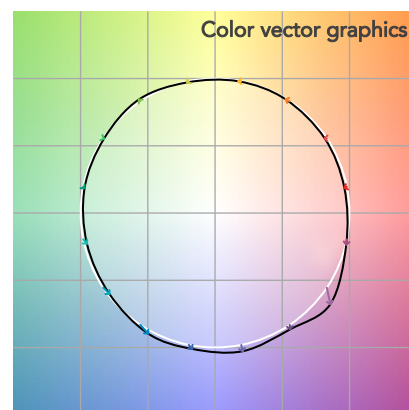
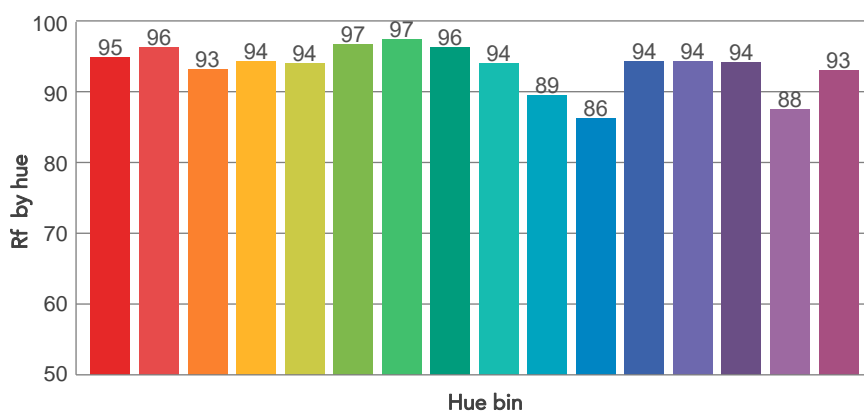
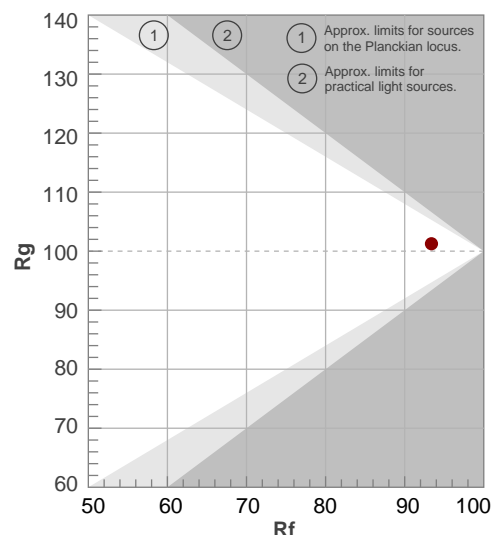
**Rf 93,4**

Fidelity index Rf

**Rg 101,3**

Gammut index

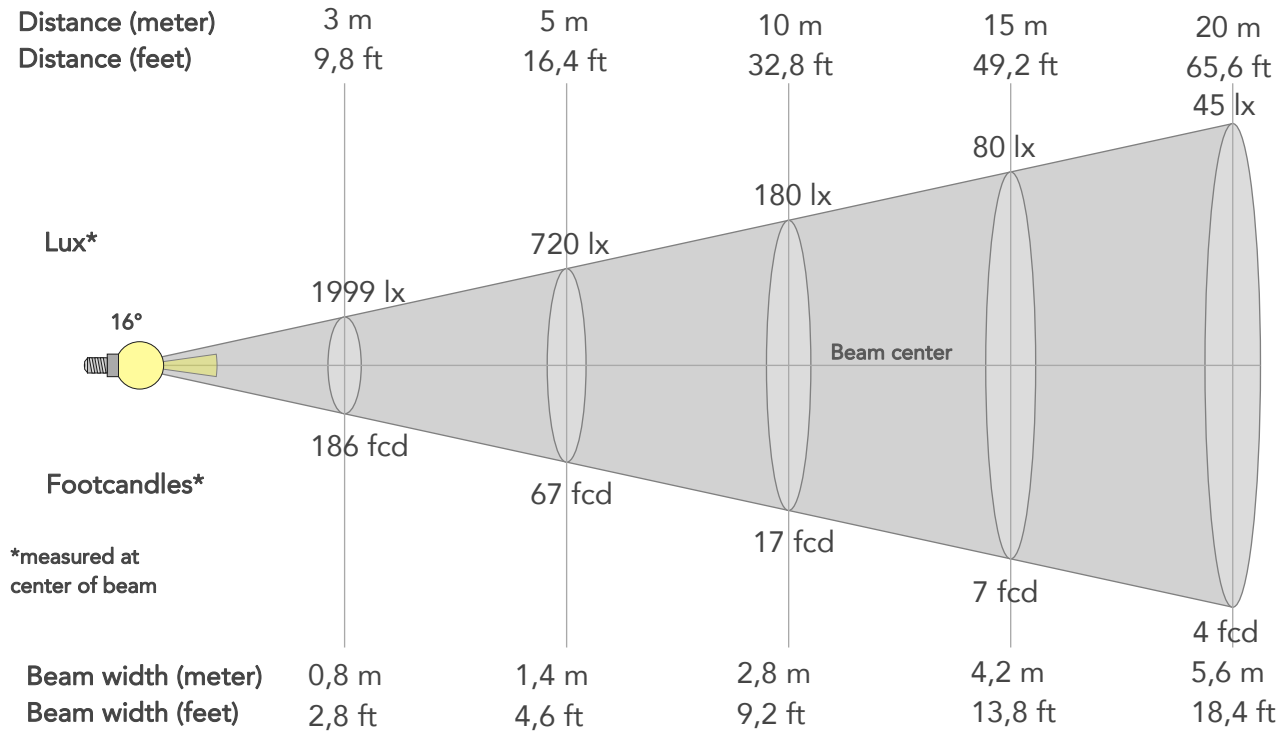
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	96	-1%	1%
3	93	-1%	3%
4	94	-1%	2%
5	94	-1%	2%
6	97	2%	0%
7	97	-1%	0%
8	96	-1%	1%
9	94	-2%	4%
10	89	-1%	6%
11	86	2%	8%
12	94	2%	3%
13	94	5%	0%
14	94	3%	-2%
15	88	9%	-9%
16	93	0%	-4%



# BEAM DETAILS



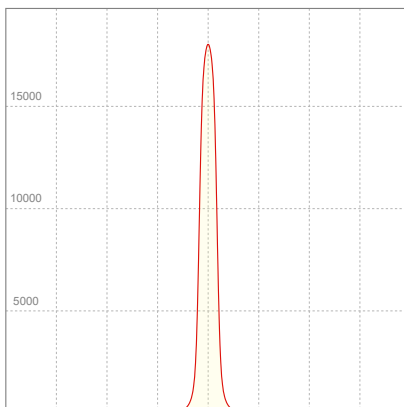
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16°	24,3°	34,1°	99,0%	98,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	17990lx	4497lx	1999lx	1124lx	720lx	320lx	180lx	80lx	45lx	29lx	20lx	11lx	7lx
Footcand.	1671fcd	418fcd	186fcd	104fcd	67fcd	30fcd	17fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,4m	11,2m	14m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,6ft	6,9ft	9,2ft	13,8ft	18,4ft	23ft	27,6ft	36,8ft	46,1ft

## LINEAR DISTRIBUTION DIAGRAM

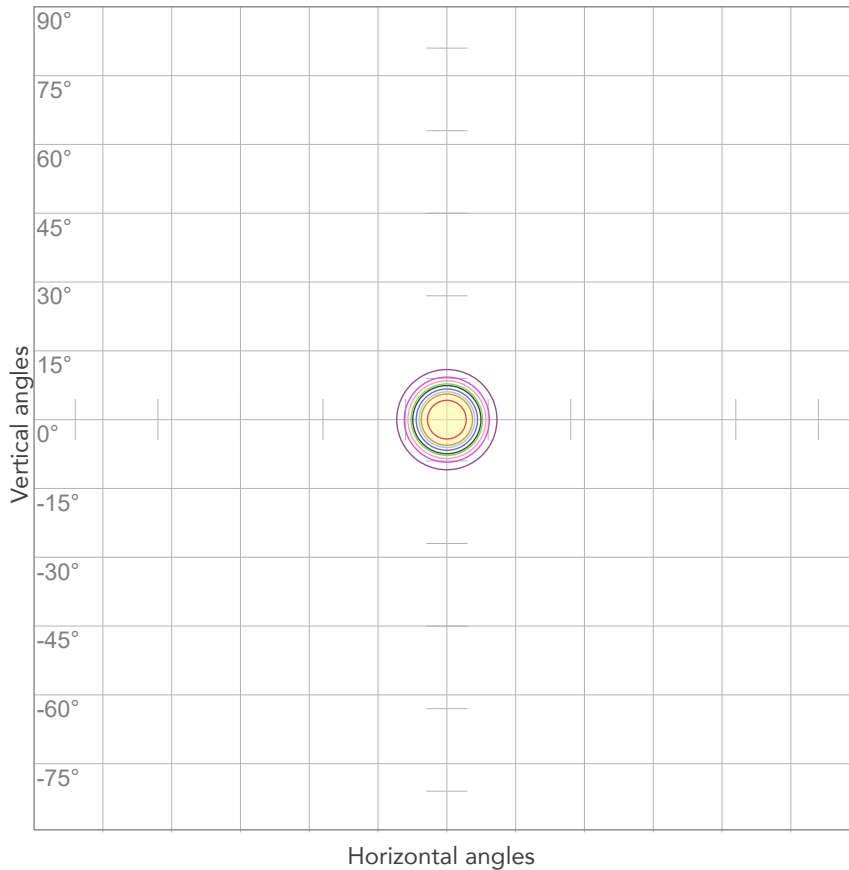


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,155A	33,5W	0,96	45lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



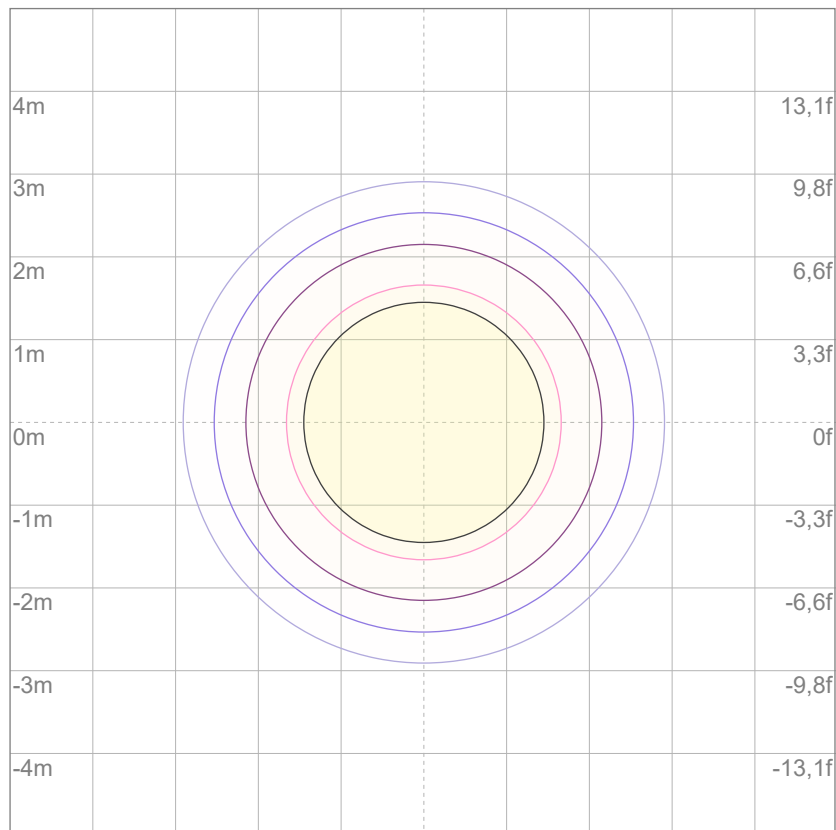
10%	1799 cd
20%	3598 cd
30%	5397 cd
40%	7196 cd
50%	8995 cd
60%	10794 cd
70%	12593 cd
80%	14392 cd

### Conditions:

Number of c-planes: 2

Candela at center: 17990 cd

## ISO LUX DIAGRAM



3%	5,40 lx
5%	8,99 lx
10%	18,0 lx
30%	54,0 lx
50%	89,9 lx

### Conditions:

Number of c-planes: 2

Lux at center: 180 lx

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



Total lumen output:

1997 lm

Peak candela output:

2674 cd

Light quality:

CRI: 95,1

Color temperature:

5039 K

**PRODUCT NAME:**  
ECLDISPLAYCRMX56K

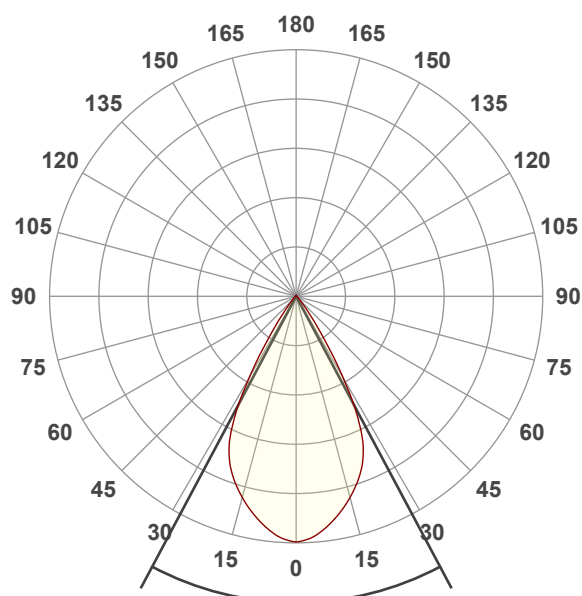
**MEASURAMENT CONDITIONS:**

Beam angle:  
Wash 2550 Max Zoom

Target:  
Full On

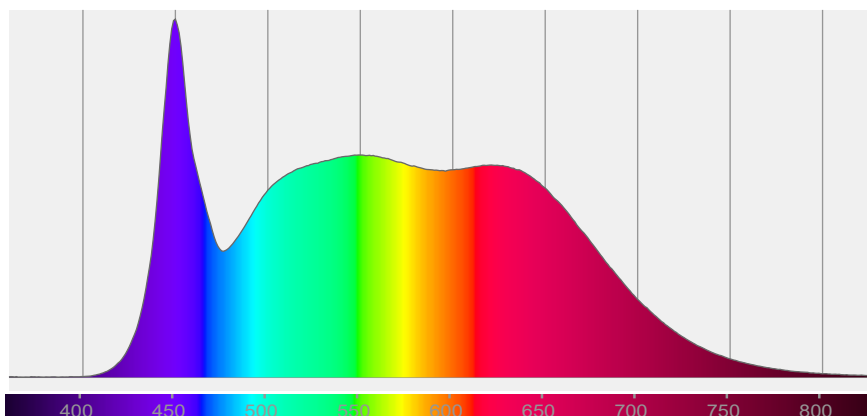
Operator:  
Giacomo Matteo

Date and time:  
18/06/2024 13:03:36



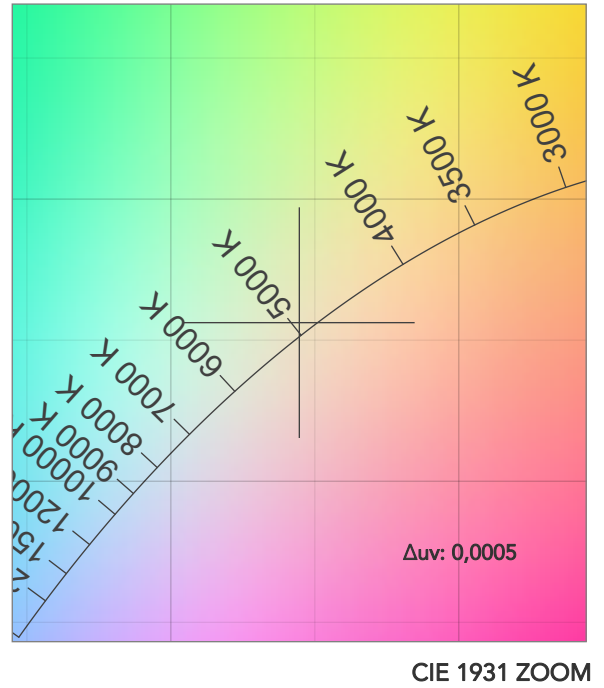
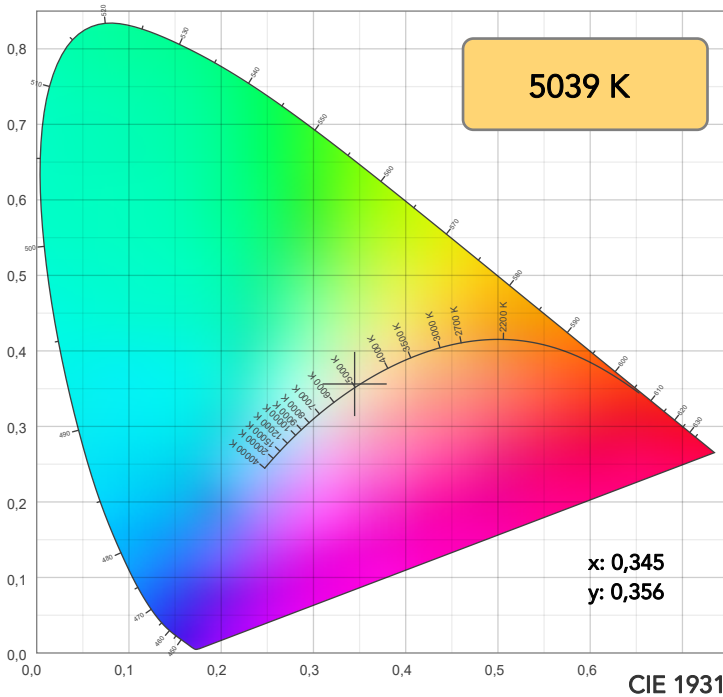
Beam angle 50%: 56,1°  
Field angle 10%: 73,5°  
Cut off angle 2.5%: 89,4°

Spectra

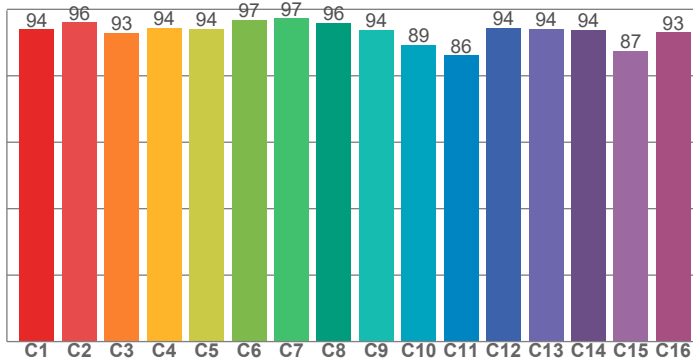




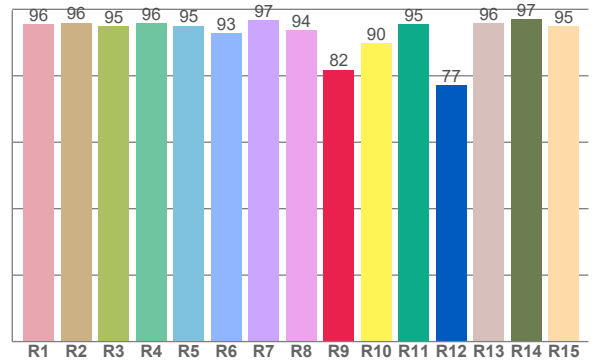
# COLOR DETAILS



TM30: 93,2



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
95,5	95,9	94,9	95,8	95,0	92,9	96,7	93,7	81,9	89,8	95,5	77,2	95,7	97,1	94,8

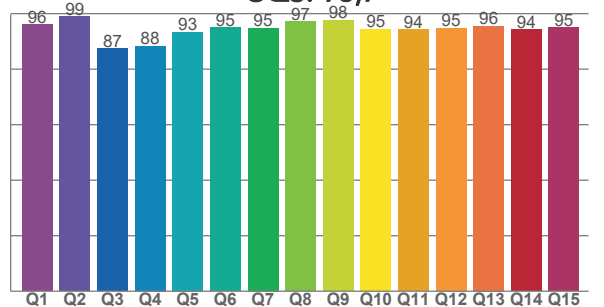
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,0	96,0	92,9	94,4	94,1	96,9	97,3	96,0	93,9	89,4	86,2	94,4	94,2	93,8	87,5	93,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,1	99,0	87,5	88,4	93,3	95,0	94,9	97,2	97,6	94,5	94,2	94,8	95,6	94,2	94,9

CQS: 93,7



## COLOR PARAMETERS

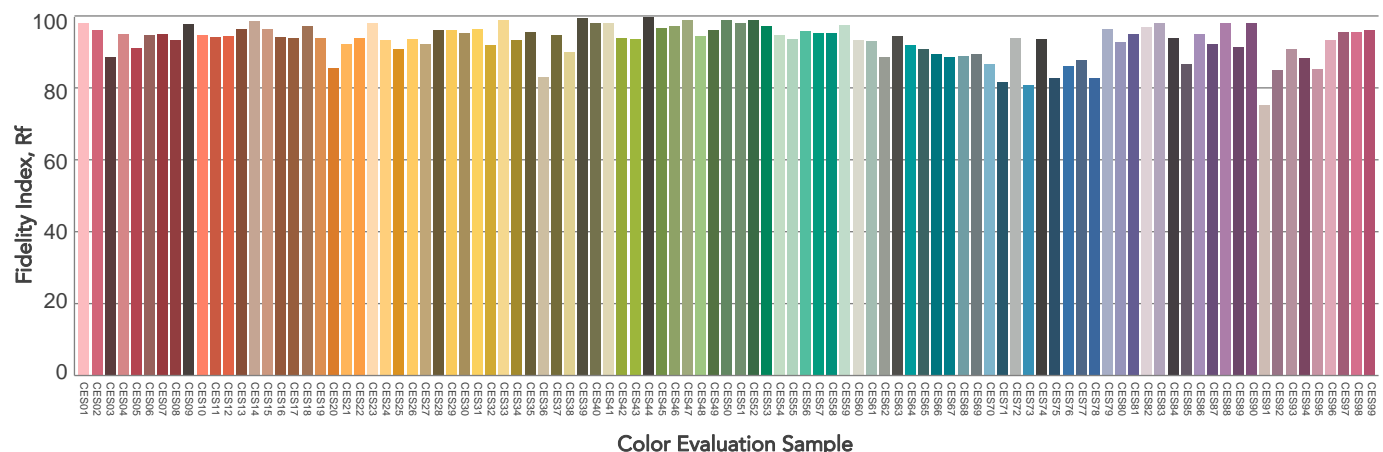
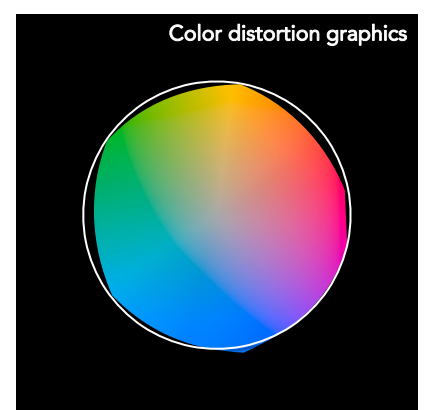
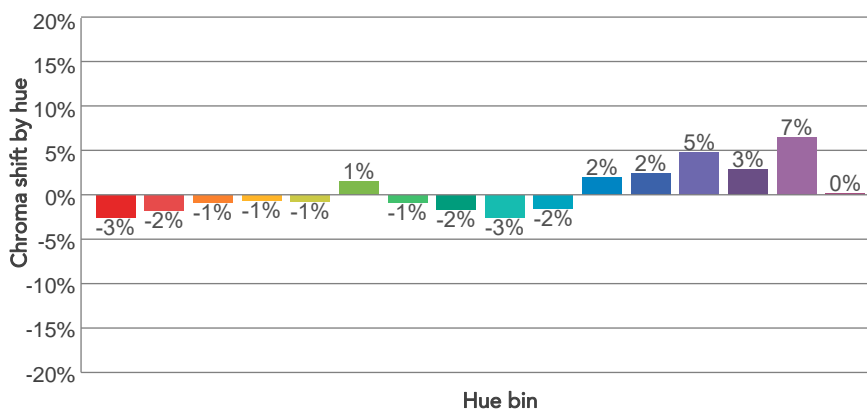
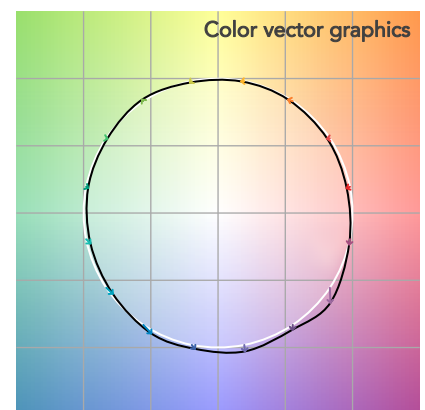
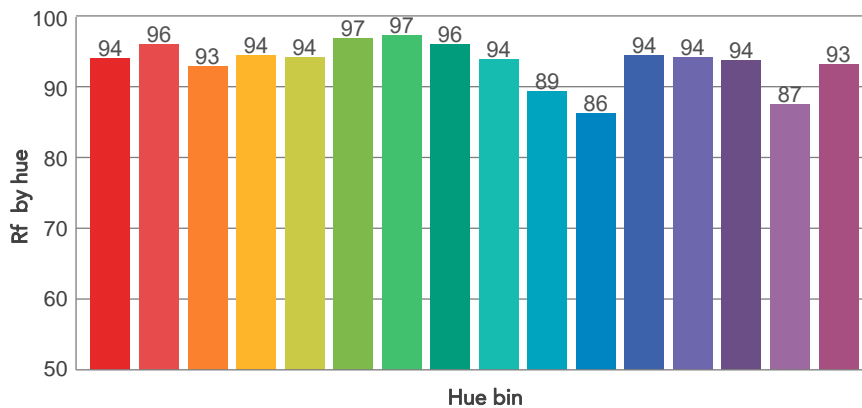
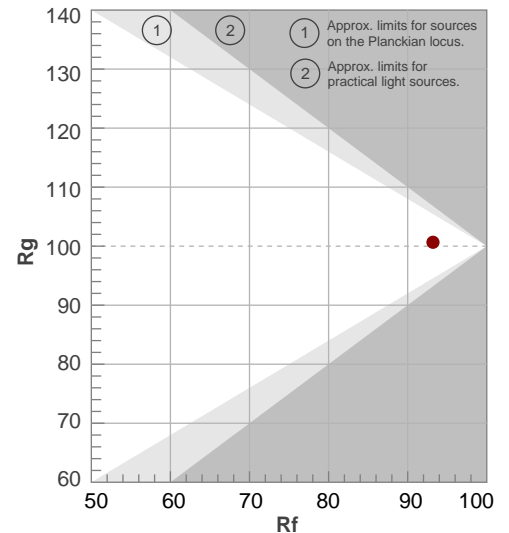
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5039 K	95,1	81,9	93,2	100,7	93,7	98	0,345	0,356	0,0005

# TM30 DETAILS

**Rf 93,2**  
Fidelity index Rf

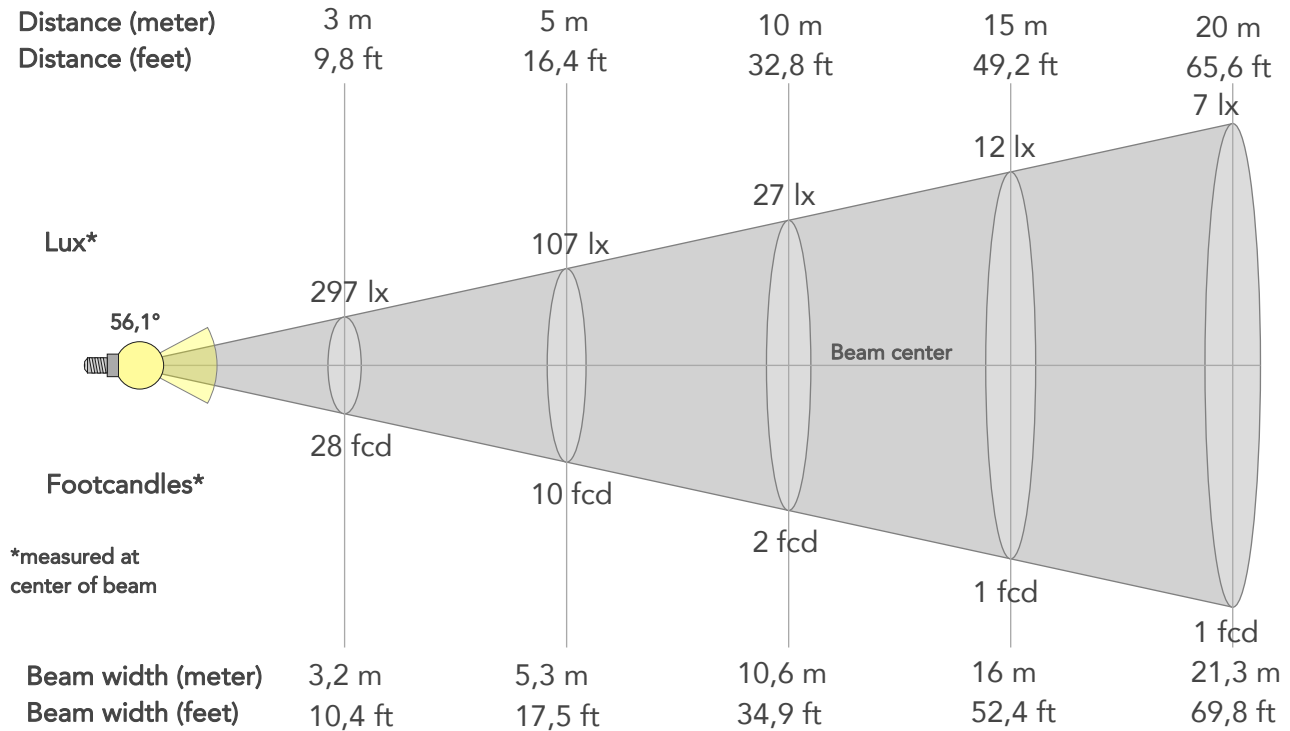
**Rg 100,7**  
Gammut index

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



# BEAM DETAILS

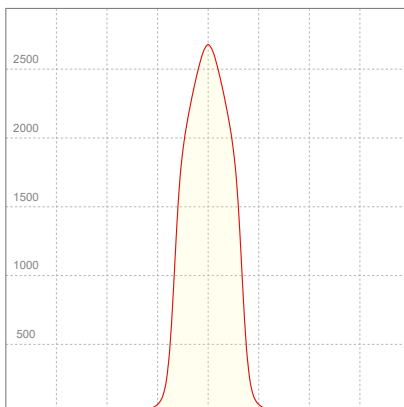
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
56,1°	73,5°	89,4°	99,2%	97,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2674lx	669lx	297lx	167lx	107lx	48lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	248fcd	62fcd	28fcd	16fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,1m	3,2m	4,3m	5,3m	8m	10,6m	16m	21,3m	26,6m	31,9m	42,6m	53,2m
Beam wid.	3,5ft	7ft	10,4ft	13,9ft	17,5ft	26,2ft	34,9ft	52,4ft	69,8ft	87,3ft	104,8ft	139,7ft	174,6ft

## LINEAR DISTRIBUTION DIAGRAM

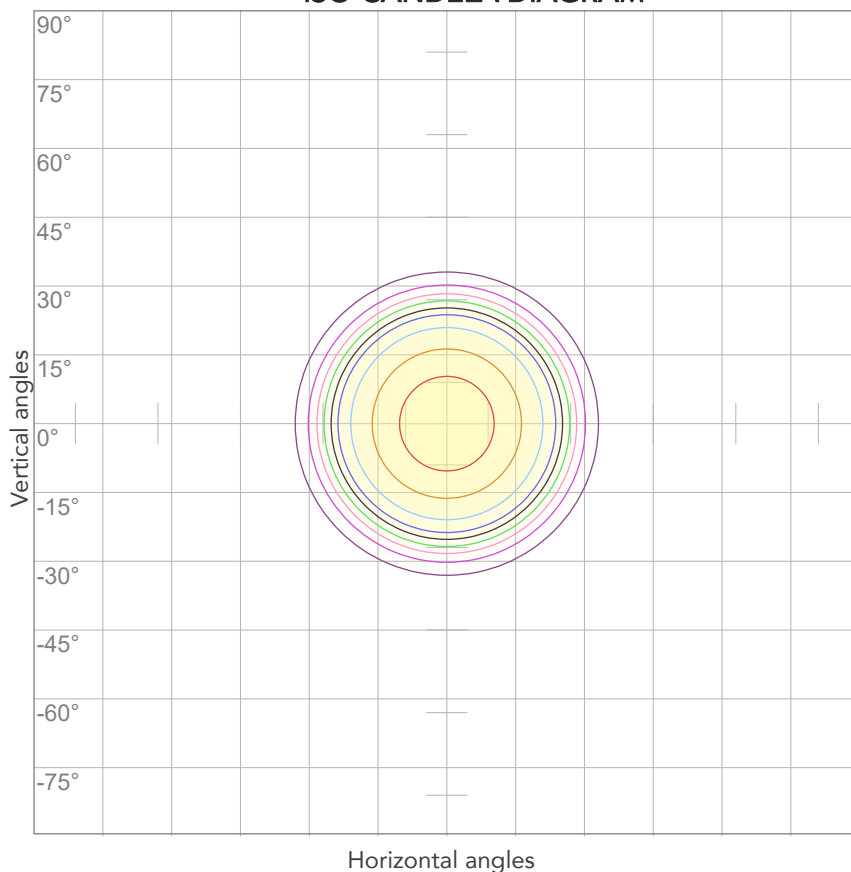


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,157A	33,9W	0,96	59lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



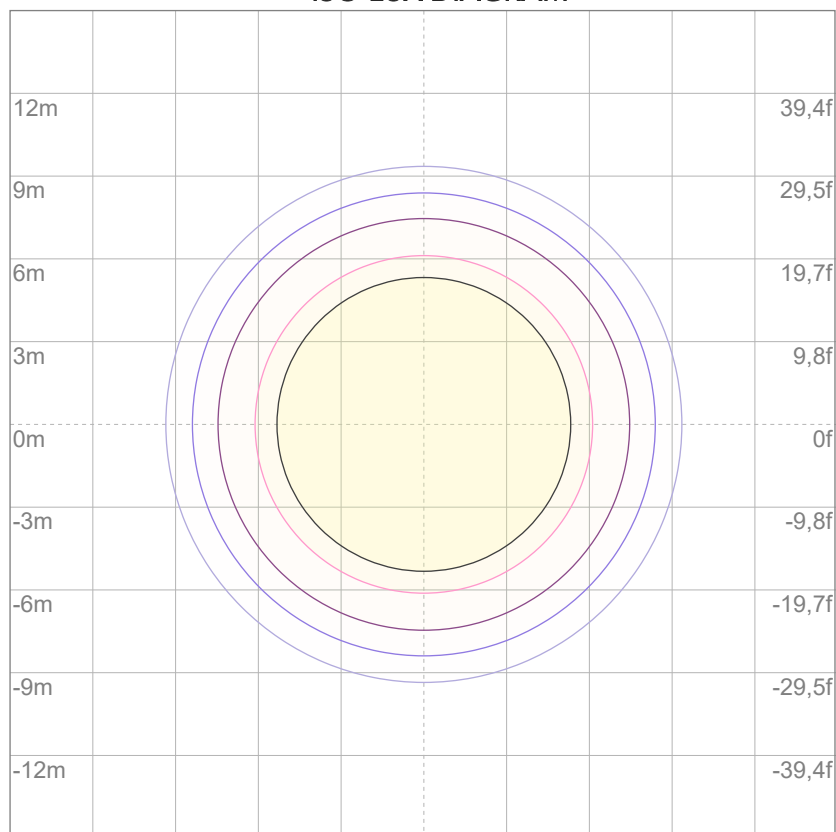
10%	267 cd
20%	535 cd
30%	802 cd
40%	1070 cd
50%	1337 cd
60%	1604 cd
70%	1872 cd
80%	2139 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2674 cd

## ISO LUX DIAGRAM



3%	0,802 lx
5%	1,34 lx
10%	2,67 lx
30%	8,02 lx
50%	13,4 lx

### Conditions:

Number of c-planes: 2

Lux at center: 26,7 lx

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



Total lumen output:

1367 lm

Peak candela output:

7311 cd

Light quality:

CRI: 95,7

Color temperature:

5064 K

**PRODUCT NAME:**  
ECLDISPLAYCRMX56K

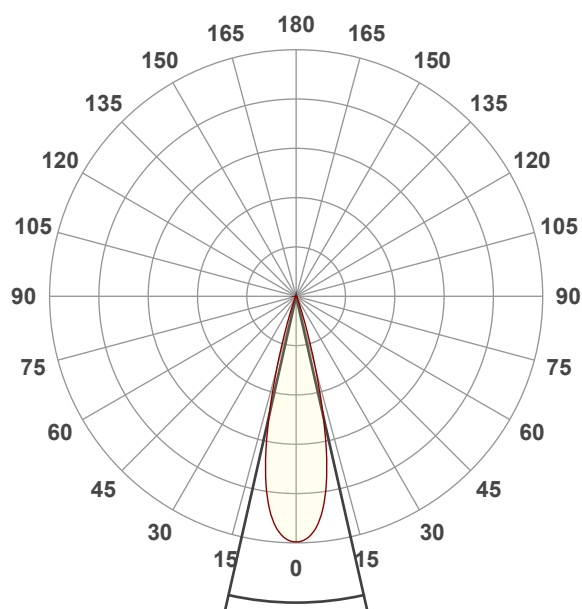
**MEASURAMENT CONDITIONS:**

Beam angle:  
Wash 2550 Min Zoom

Target:  
Full On

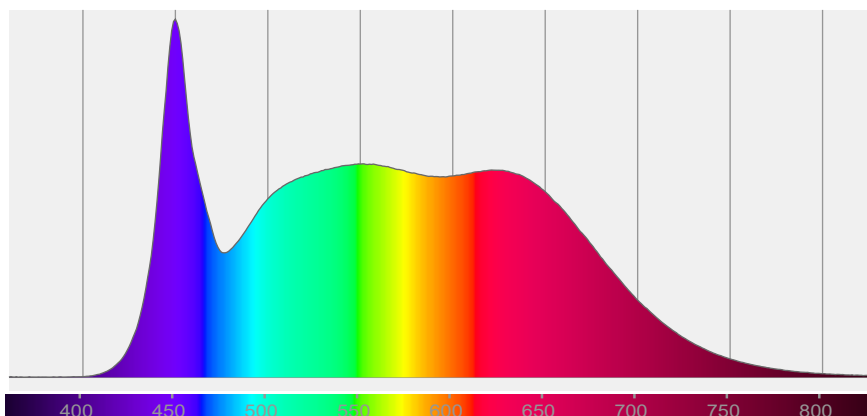
Operator:  
Giacomo Matteo

Date and time:  
18/06/2024 13:05:29

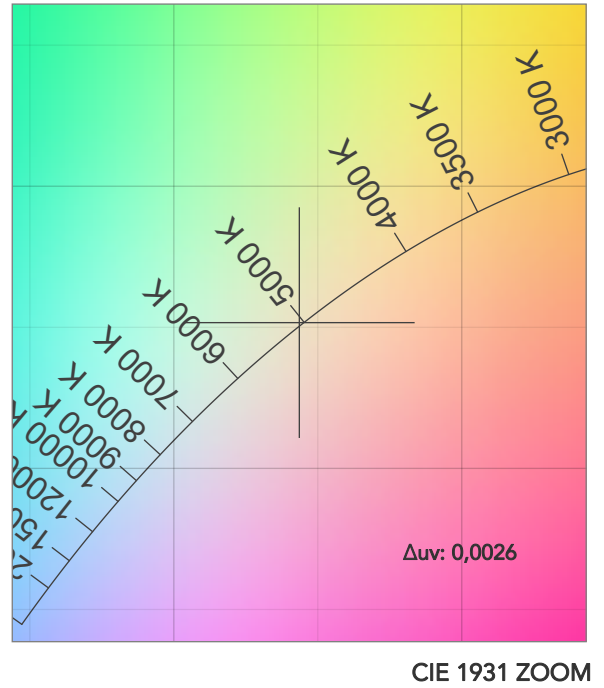
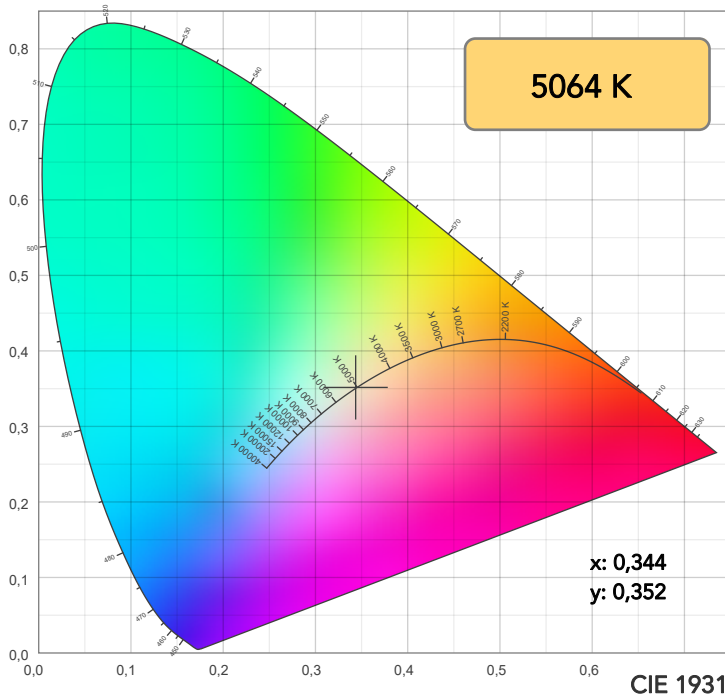


Beam angle 50%: 25,5°  
Field angle 10%: 37,4°  
Cut off angle 2.5%: 46,4°

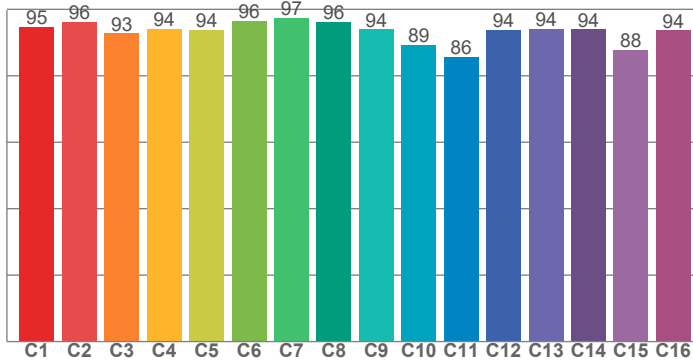
Spectra



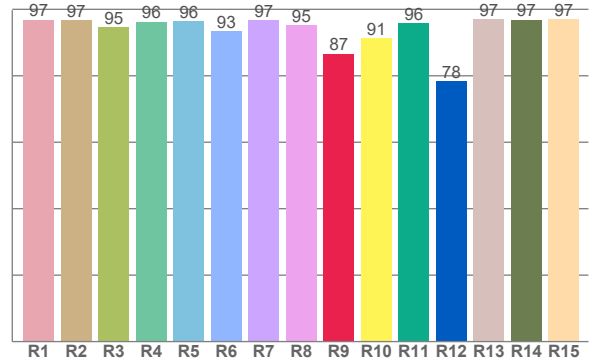
# COLOR DETAILS



TM30: 93,2



CRI: 95,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,8	96,6	94,6	96,3	96,4	93,3	96,7	95,2	86,6	91,2	95,7	78,4	97,0	96,9	96,9

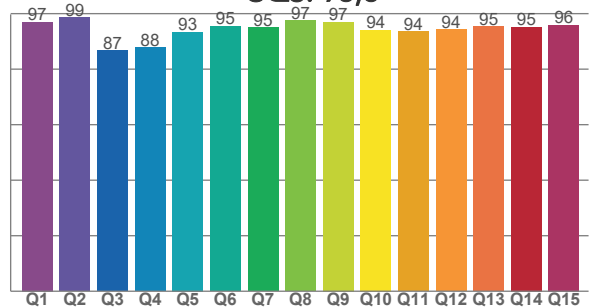
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	96,2	92,8	94,1	93,8	96,5	97,4	96,2	94,0	89,3	85,8	93,9	94,2	93,9	87,8	93,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,0	98,6	86,7	87,8	93,4	95,4	94,9	97,5	97,0	94,0	93,5	94,2	95,3	95,3	95,9

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	$\Delta uv$
5064 K	95,7	86,6	93,2	101,3	93,6	98	0,344	0,352	0,0026

## TM30 DETAILS

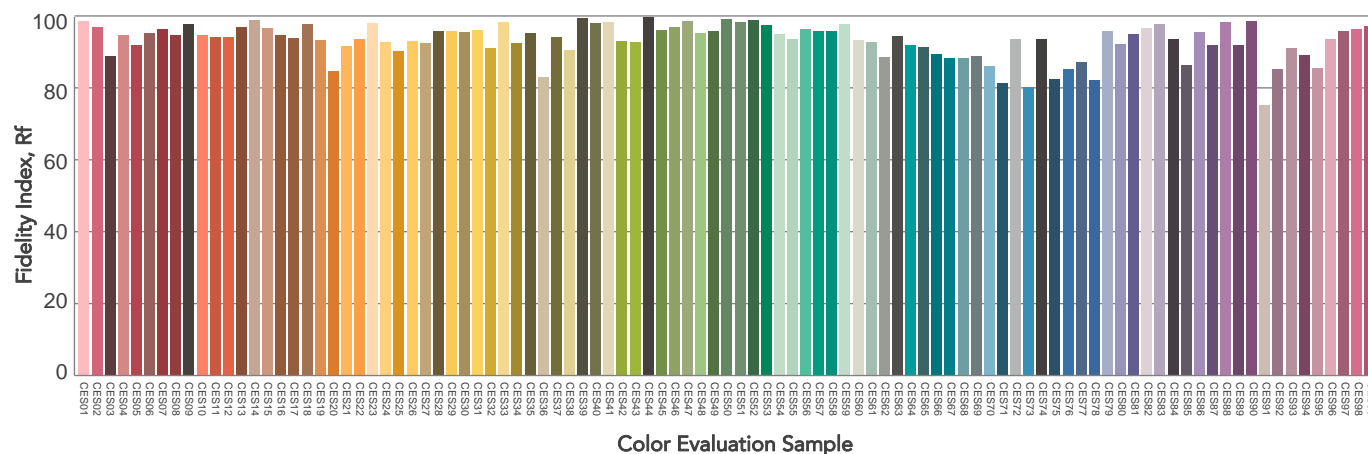
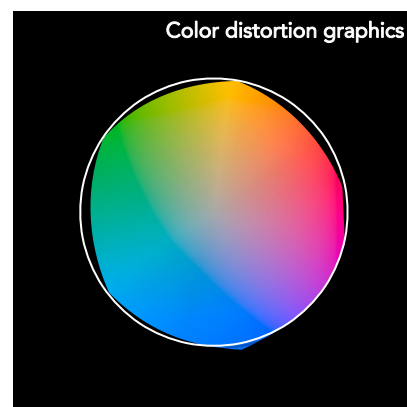
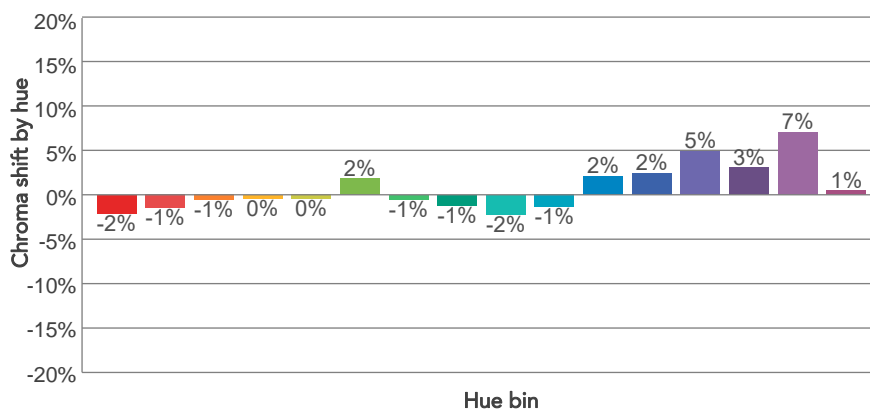
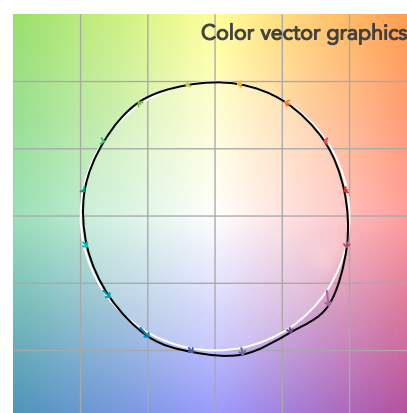
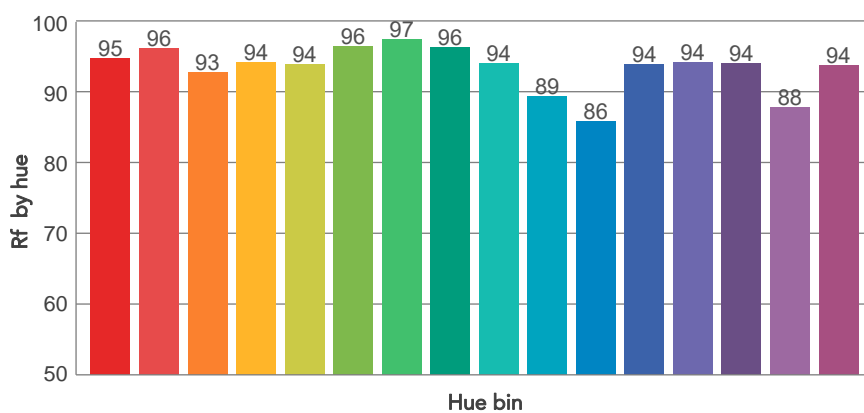
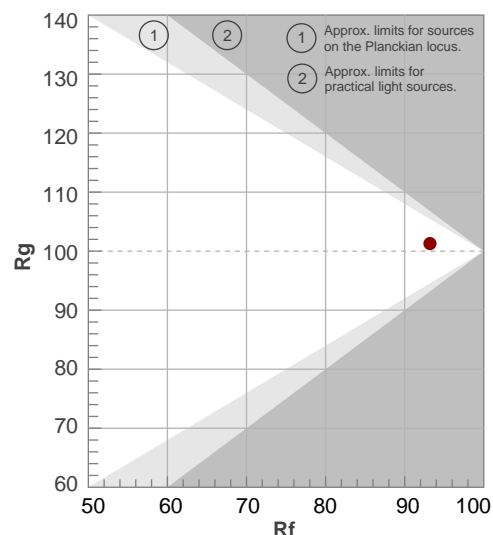
**Rf 93,2**

Fidelity index  $R_f$

Rg 101,3

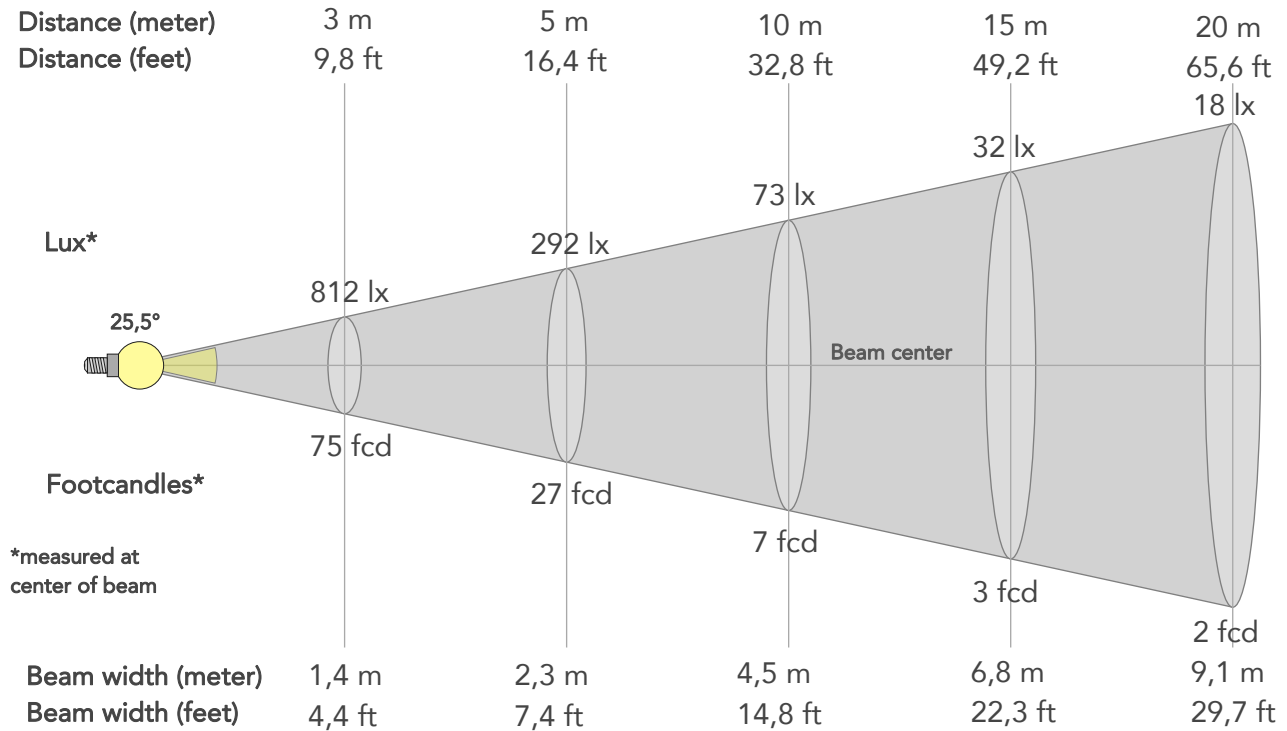
## Gammut index

		Graphic shifts (%)	
Hue Bin	$R_f$	Chroma	Hue
1	95	-2%	0%
2	96	-1%	1%
3	93	-1%	4%
4	94	0%	2%
5	94	0%	2%
6	96	2%	0%
7	97	-1%	0%
8	96	-1%	1%
9	94	-2%	4%
10	89	-1%	7%
11	86	2%	9%
12	94	2%	3%
13	94	5%	0%
14	94	3%	-2%
15	88	7%	-8%
16	94	1%	-4%



# BEAM DETAILS

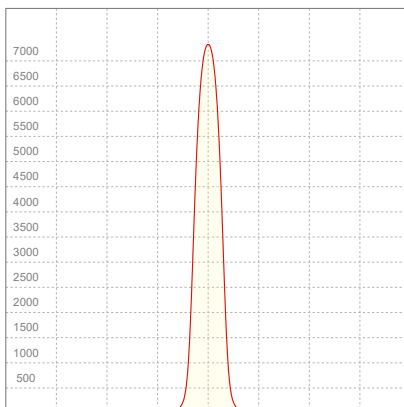
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,5°	37,4°	46,4°	98,8%	97,5%



## 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	7311lx	1828lx	812lx	457lx	292lx	130lx	73lx	32lx	18lx	12lx	8lx	5lx	3lx
Footcand.	679fcd	170fcd	75fcd	42fcd	27fcd	12fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,5m	6,8m	9,1m	11,3m	13,6m	18,1m	22,6m
Beam wid.	1,5ft	3ft	4,4ft	5,9ft	7,4ft	11,1ft	14,8ft	22,3ft	29,7ft	37,1ft	44,5ft	59,4ft	74,2ft

## LINEAR DISTRIBUTION DIAGRAM



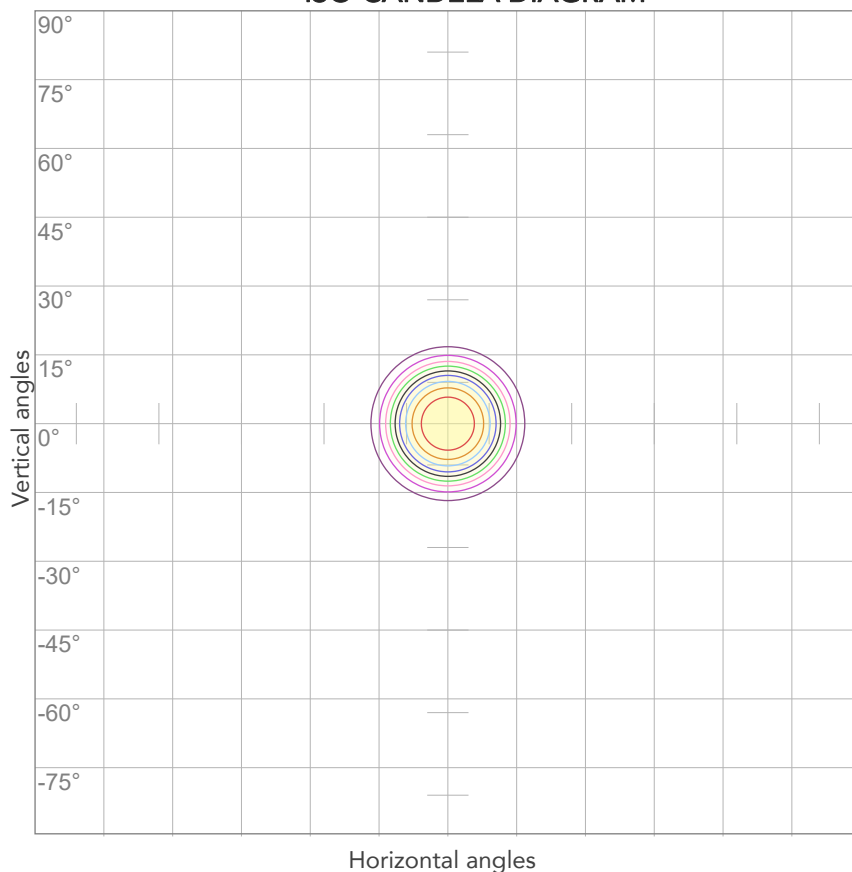
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,156A	33,7W	0,96	41lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



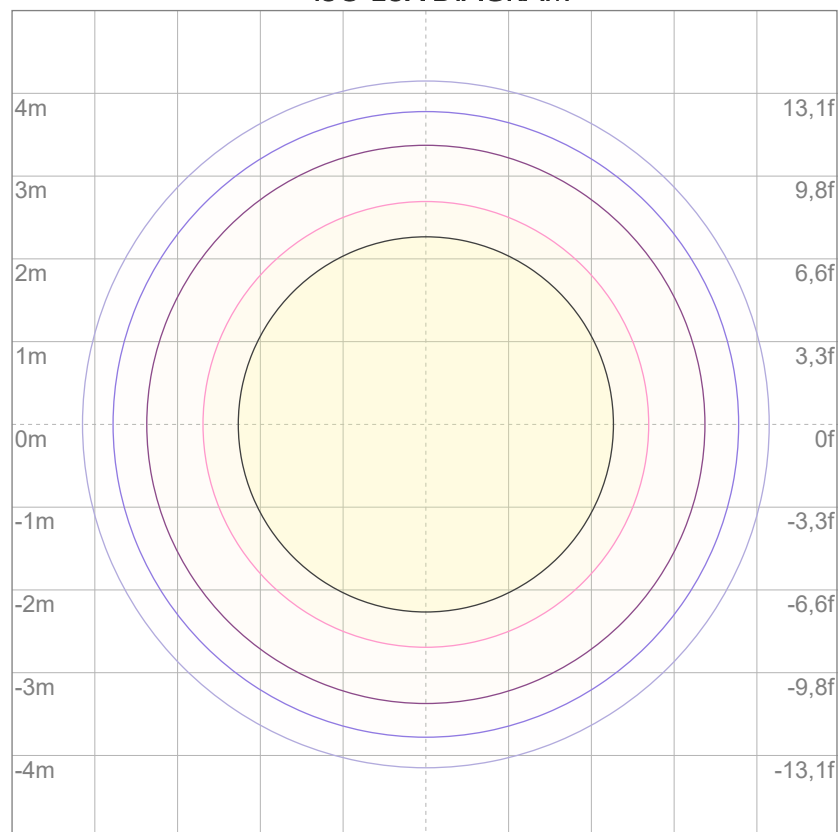
10%	731 cd
20%	1462 cd
30%	2193 cd
40%	2924 cd
50%	3656 cd
60%	4387 cd
70%	5118 cd
80%	5849 cd

### Conditions:

Number of c-planes: 2

Candela at center: 7311 cd

## ISO LUX DIAGRAM



3%	2,19 lx
5%	3,66 lx
10%	7,31 lx
30%	21,9 lx
50%	36,6 lx

### Conditions:

Number of c-planes: 2

Lux at center: 73,1 lx

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