



# Photometric Test Report



## EclPanel IPSoft2x1

2x1 Soft Source LED Panel, IP65 with 550W  
power and 6 colors source

(PRELIMINARY)

## CONTENTS

<b>Table of contents</b>	<b>2</b>
<b>Testing process</b>	<b>3</b>
<b>MD Filter</b>	
3200 K – HB Mode	4
5600 K – HB Mode	9
3200 K – HQ Mode	14
5600 K – HQ Mode	19
<b>HD Filter</b>	
3200 K – HB Mode	24
5600 K – HB Mode	29
3200 K – HQ Mode	34
5600 K – HQ Mode	39
<b>LD Filter</b>	
3200 K – HB Mode	44
5600 K – HB Mode	49
3200 K – HQ Mode	54
5600 K – HQ Mode	59
<b>INT Filter</b>	
3200 K – HB Mode	64
5600 K – HB Mode	69
3200 K – HQ Mode	74
5600 K – HQ Mode	79

## **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:

63650 lm

Peak candela output:

24227 cd

Light quality:

CRI: 93,0

Color temperature:

3235 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

MD Filter

Target:

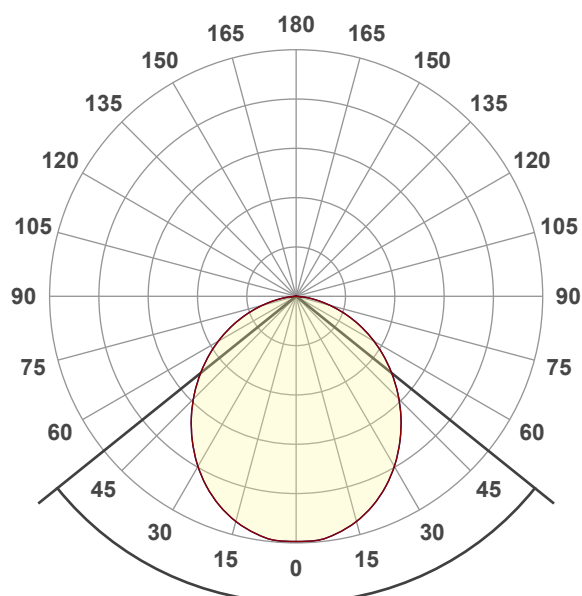
3200K - HB

Operator:

Salvatore Giglio

Date and time:

06/09/2024 14:29:09

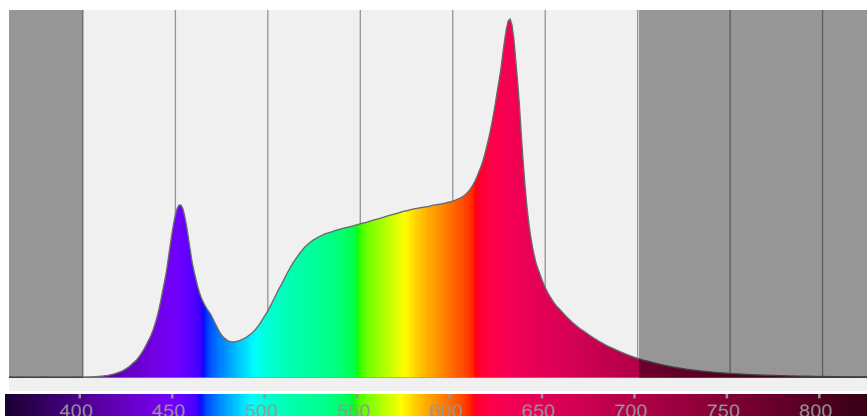


Beam angle 50%: 102,4°

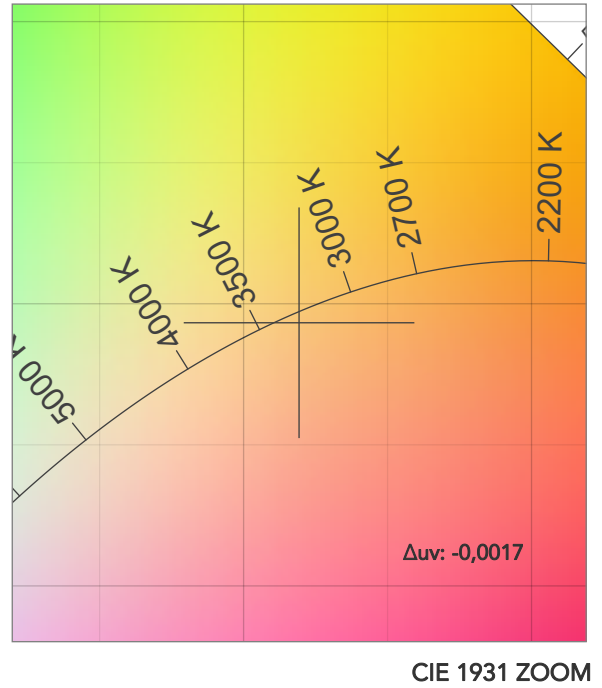
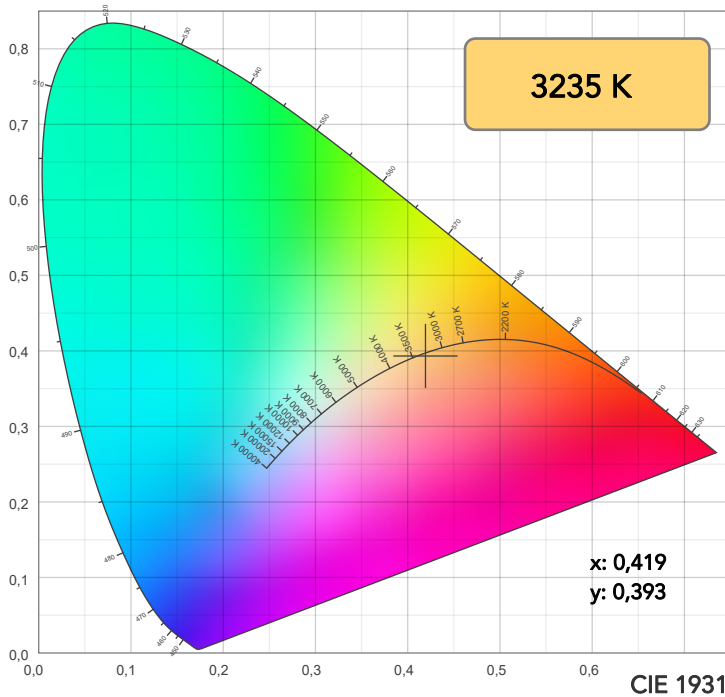
Field angle 10%: 156,3°

Cut off angle 2.5%: 168,9°

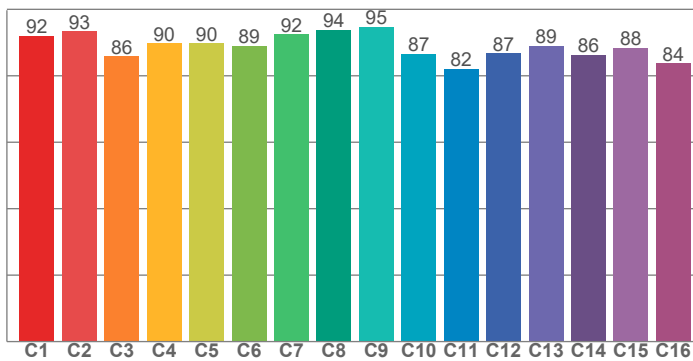
**Spectra**



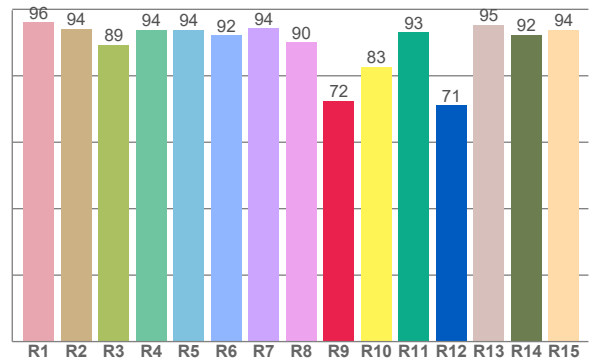
## COLOR DETAILS



TM30: 89,1



CRI: 93,0 (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
96,2	94,2	89,3	93,9	93,9	92,1	94,2	90,0	72,5	82,7	93,1	71,1	95,3	92,3	93,8

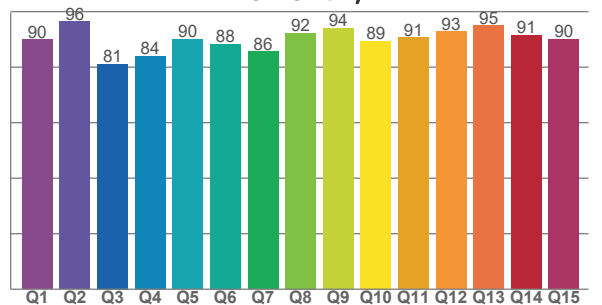
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,0	93,4	85,9	89,8	89,7	89,0	92,5	93,9	94,7	86,5	82,1	86,7	89,0	86,3	88,4	83,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,0	96,4	81,1	84,1	90,0	88,4	85,6	92,3	94,1	89,5	90,7	92,9	95,0	91,5	90,0

CQS: 89,2



## COLOR PARAMETERS

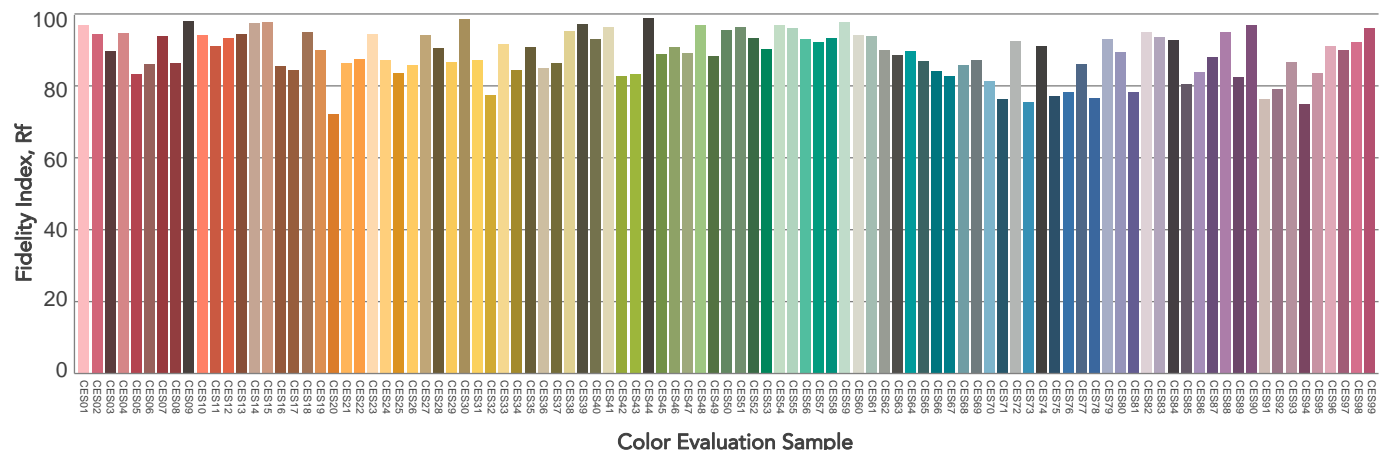
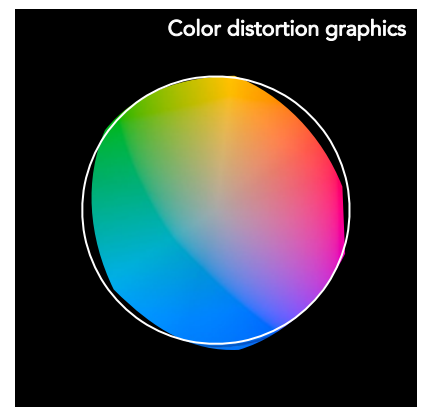
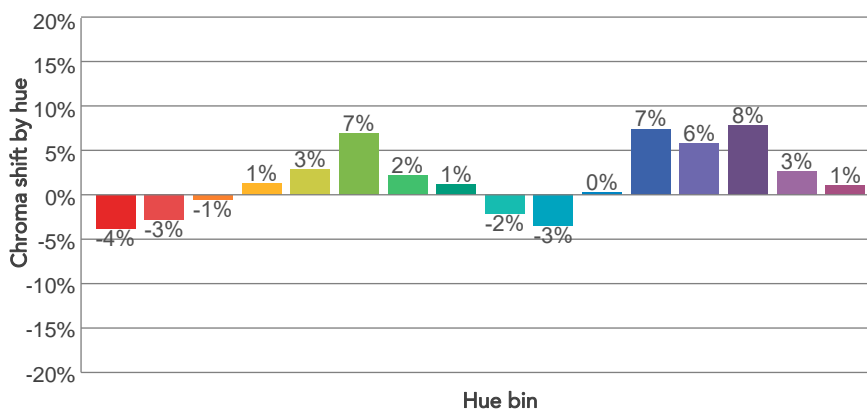
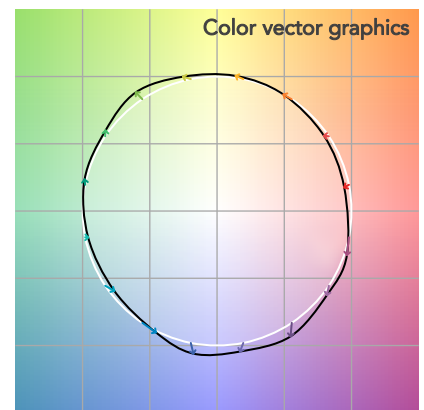
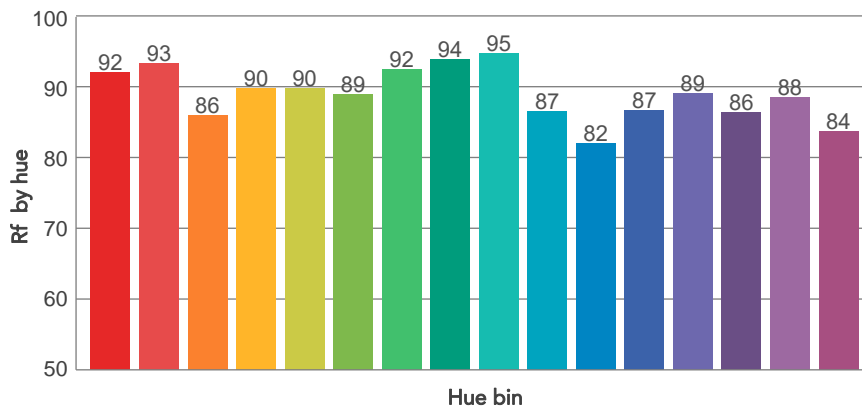
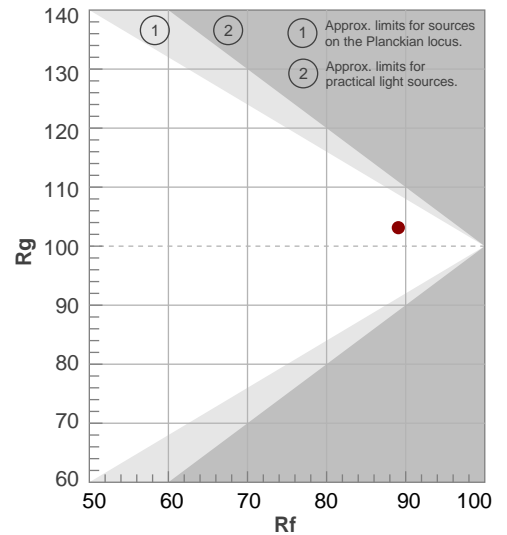
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
3235 K	93,0	72,5	89,1	103,1	89,2	82	0,419	0,393	-0,0017

# TM30 DETAILS

**Rf 89,1**  
Fidelity index Rf

**Rg 103,1**  
Gammut index

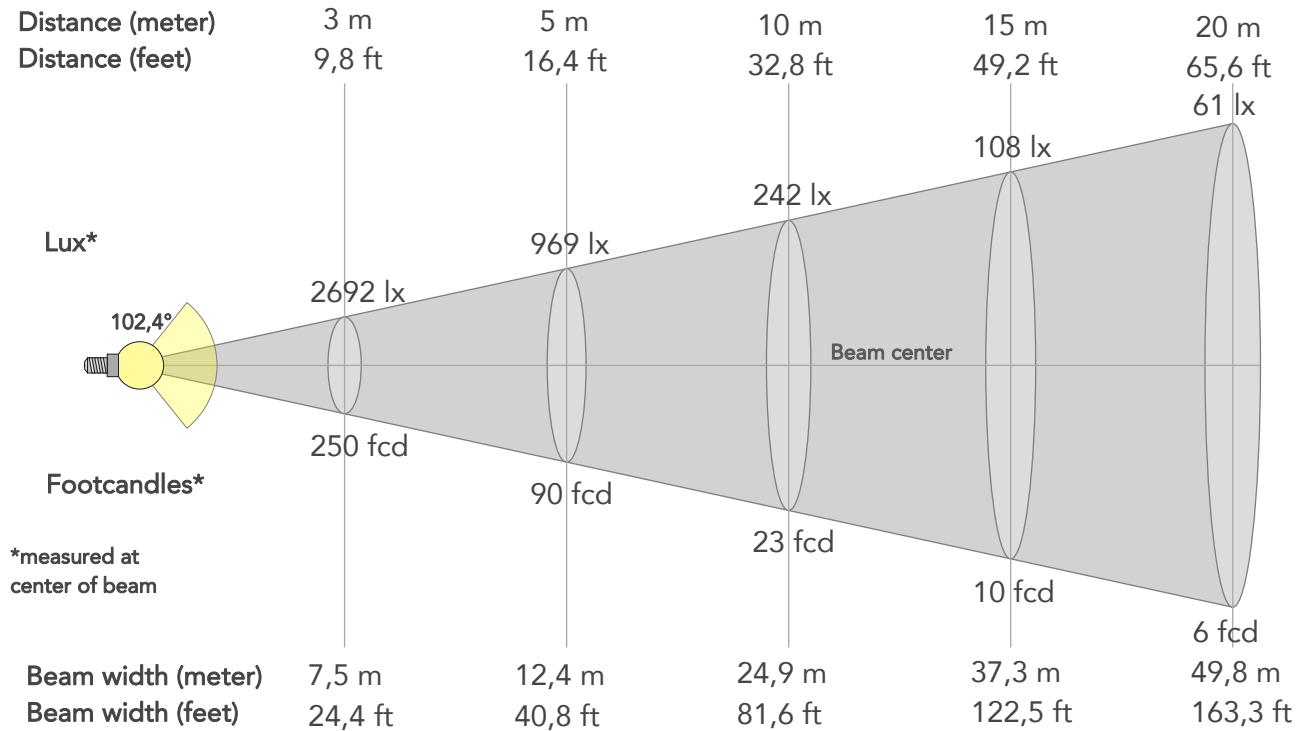
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	93	-3%	2%
3	86	-1%	7%
4	90	1%	6%
5	90	3%	5%
6	89	7%	1%
7	92	2%	-4%
8	94	1%	-4%
9	95	-2%	1%
10	87	-3%	7%
11	82	0%	12%
12	87	7%	3%
13	89	6%	-4%
14	86	8%	-6%
15	88	3%	-6%
16	84	1%	-13%



# BEAM DETAILS



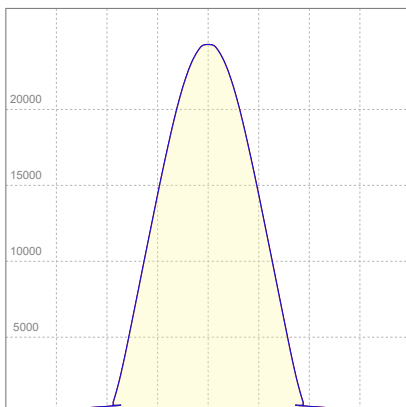
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
102,4°	156,3°	168,9°	78,8%	55,2%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	24227lx	6057lx	2692lx	1514lx	969lx	431lx	242lx	108lx	61lx	39lx	27lx	15lx	10lx
Footcand.	2251fcd	563fcd	250fcd	141fcd	90fcd	40fcd	23fcd	10fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	2,5m	5m	7,5m	10m	12,4m	18,7m	24,9m	37,3m	49,8m	62,2m	74,7m	99,6m	124,4m
Beam wid.	8,2ft	16,4ft	24,4ft	32,6ft	40,8ft	61,2ft	81,6ft	122,5ft	163,3ft	204,1ft	244,9ft	326,5ft	408,2ft

## LINEAR DISTRIBUTION DIAGRAM

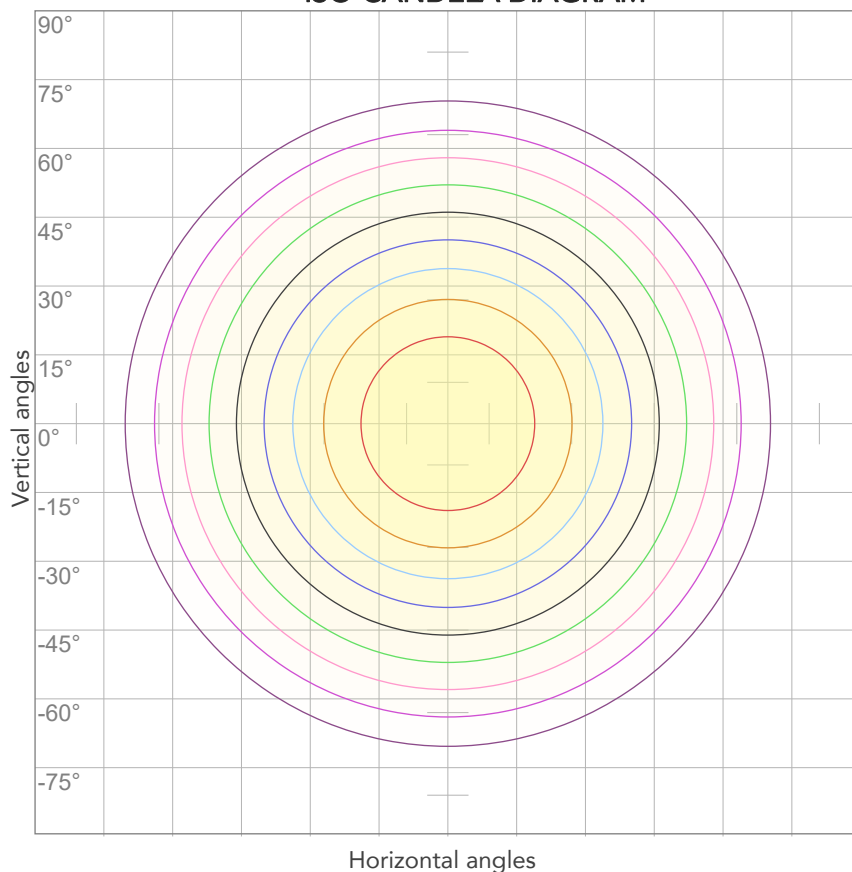


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	2,38A	536W	1,0	119lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



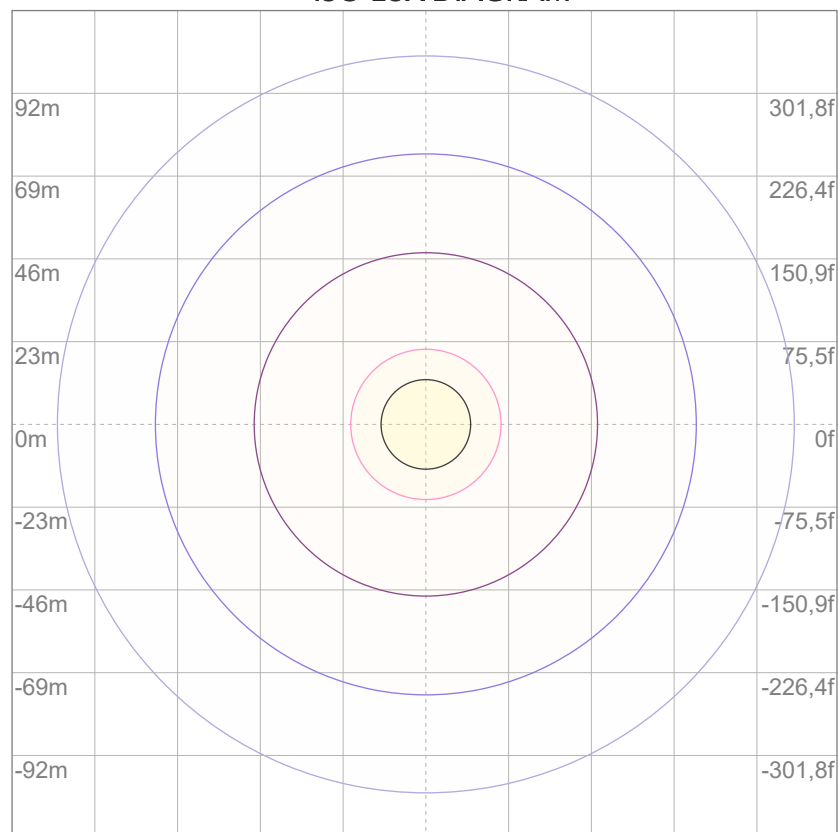
10%	2423 cd
20%	4845 cd
30%	7268 cd
40%	9691 cd
50%	12113 cd
60%	14536 cd
70%	16959 cd
80%	19381 cd

### Conditions:

Number of c-planes: 4

Candela at center: 24227 cd

## ISO LUX DIAGRAM



3%	7,27 lx
5%	12,1 lx
10%	24,2 lx
30%	72,7 lx
50%	121 lx

### Conditions:

Number of c-planes: 4

Lux at center: 242 lx

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





Total lumen output:

64132 lm

Peak candela output:

24511 cd

Light quality:

CRI: 83,4

Color temperature:

5627 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

MD Filter

Target:

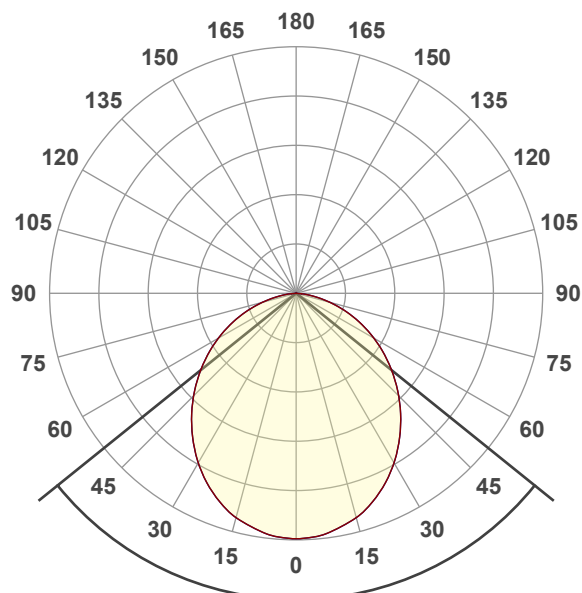
5600K - HB

Operator:

Salvatore Giglio

Date and time:

06/09/2024 14:36:15

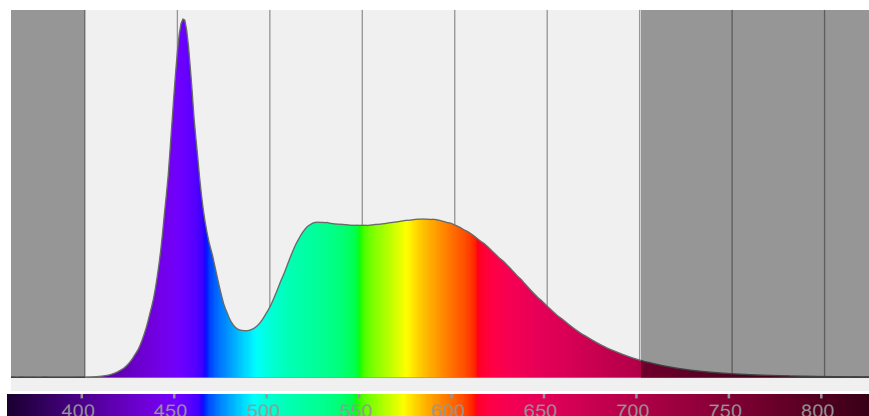


Beam angle 50%: 102,3°

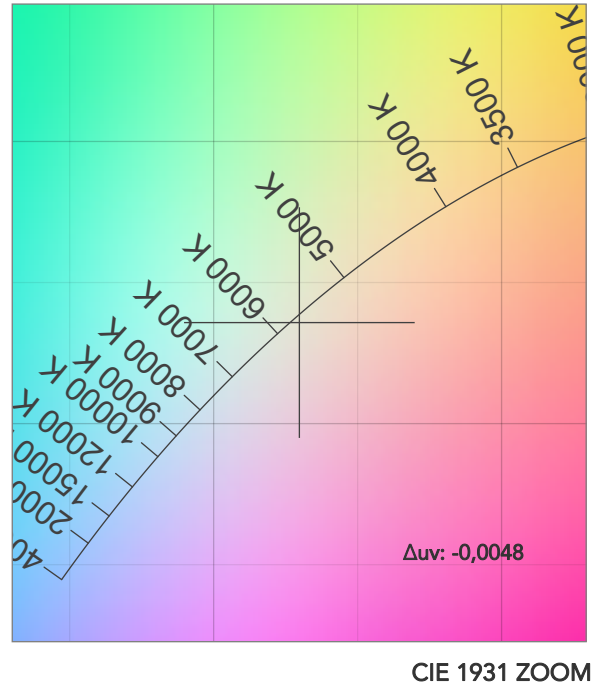
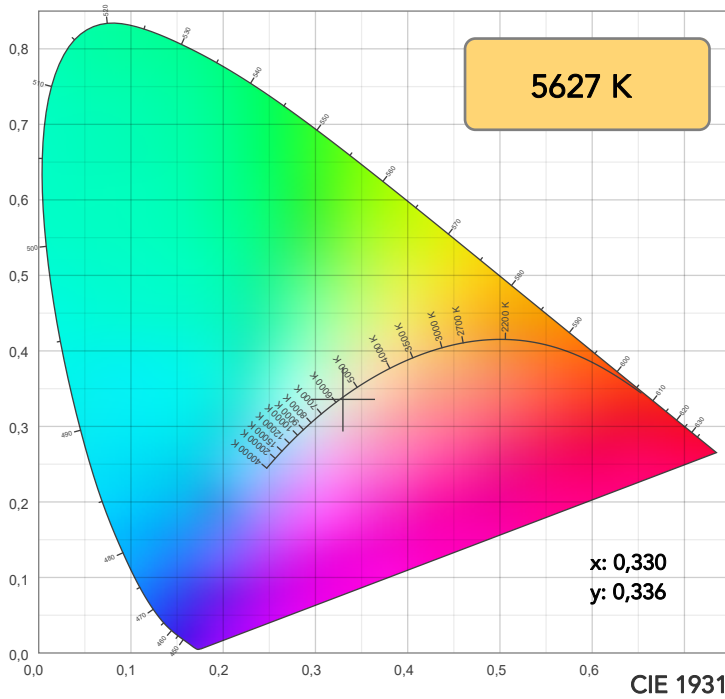
Field angle 10%: 156,3°

Cut off angle 2.5%: 169,1°

**Spectra**

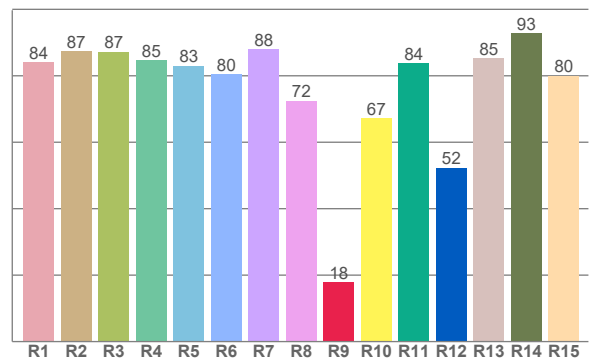
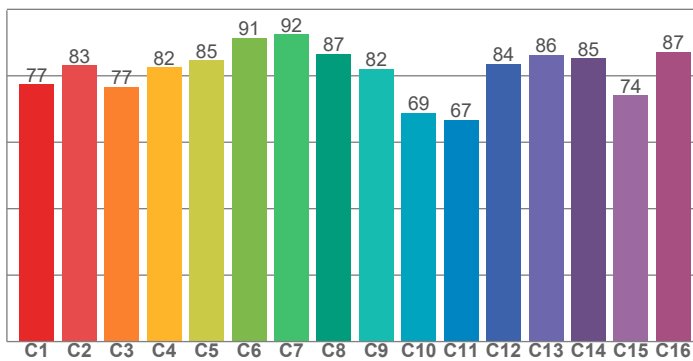


## COLOR DETAILS



TM30: 81,2

CRI: 83,4 (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
84,0	87,3	87,3	84,7	83,0	80,5	88,0	72,5	18,0	67,3	83,8	52,3	85,2	92,7	80,0

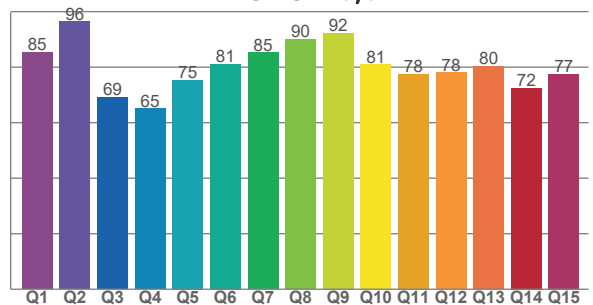
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77,4	83,2	76,7	82,5	84,6	91,3	92,5	86,6	82,0	68,9	66,8	83,6	86,4	85,2	74,1	87,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,3	96,5	69,2	65,0	75,3	81,1	85,2	90,0	92,3	80,9	77,5	78,1	80,3	72,5	77,5

CQS: 78,8



## COLOR PARAMETERS

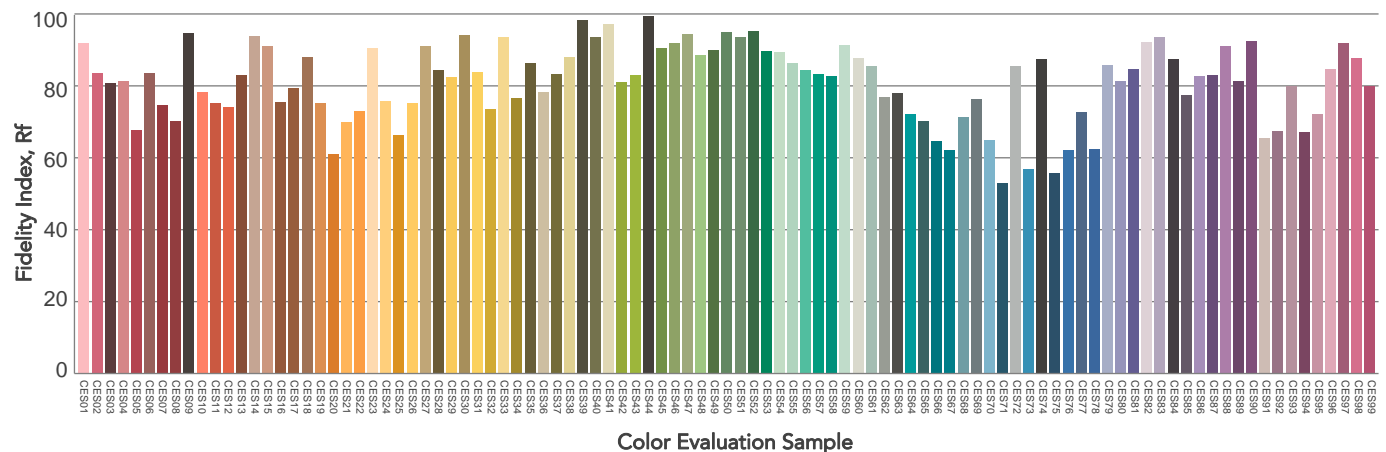
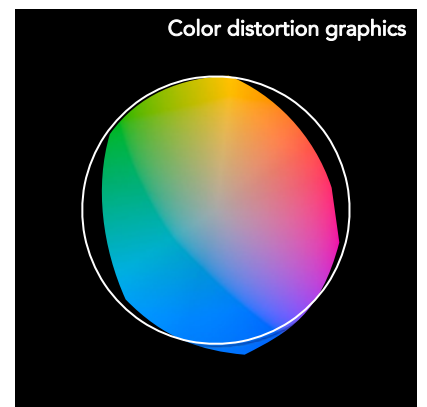
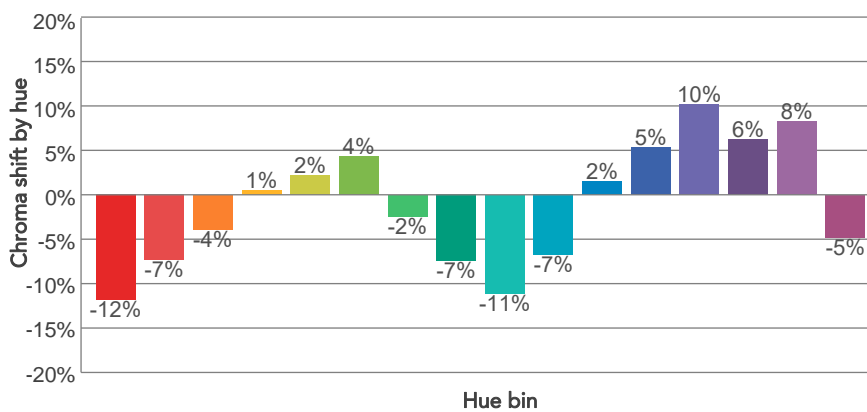
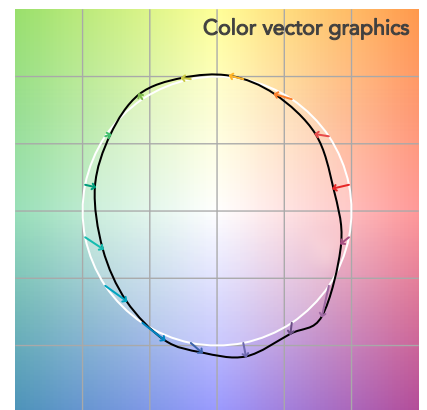
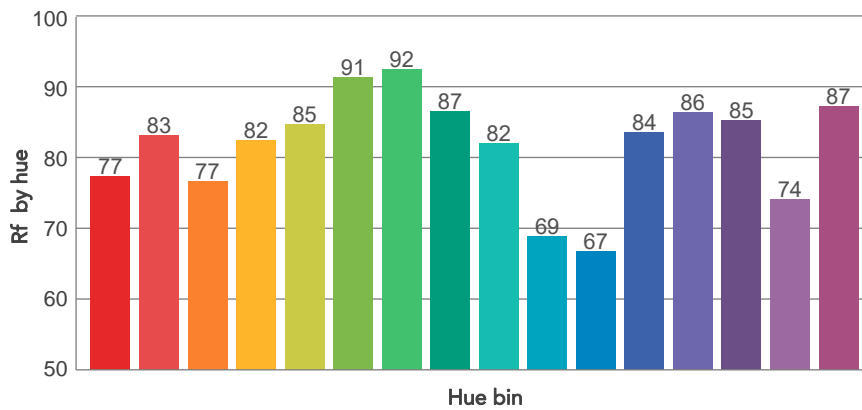
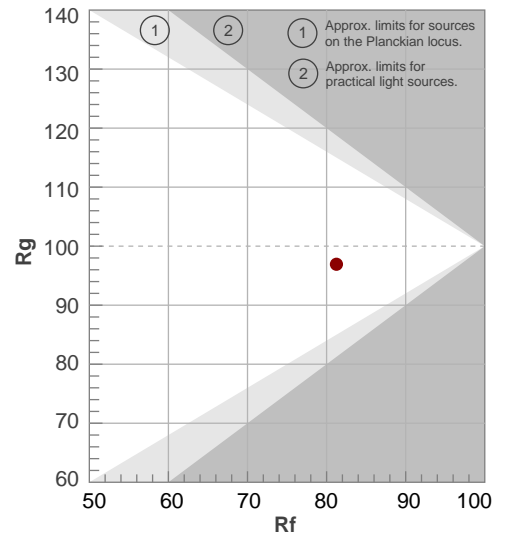
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5627 K	83,4	18,0	81,2	96,9	78,8	72	0,330	0,336	-0,0048

# TM30 DETAILS

**Rf 81,2**  
Fidelity index Rf

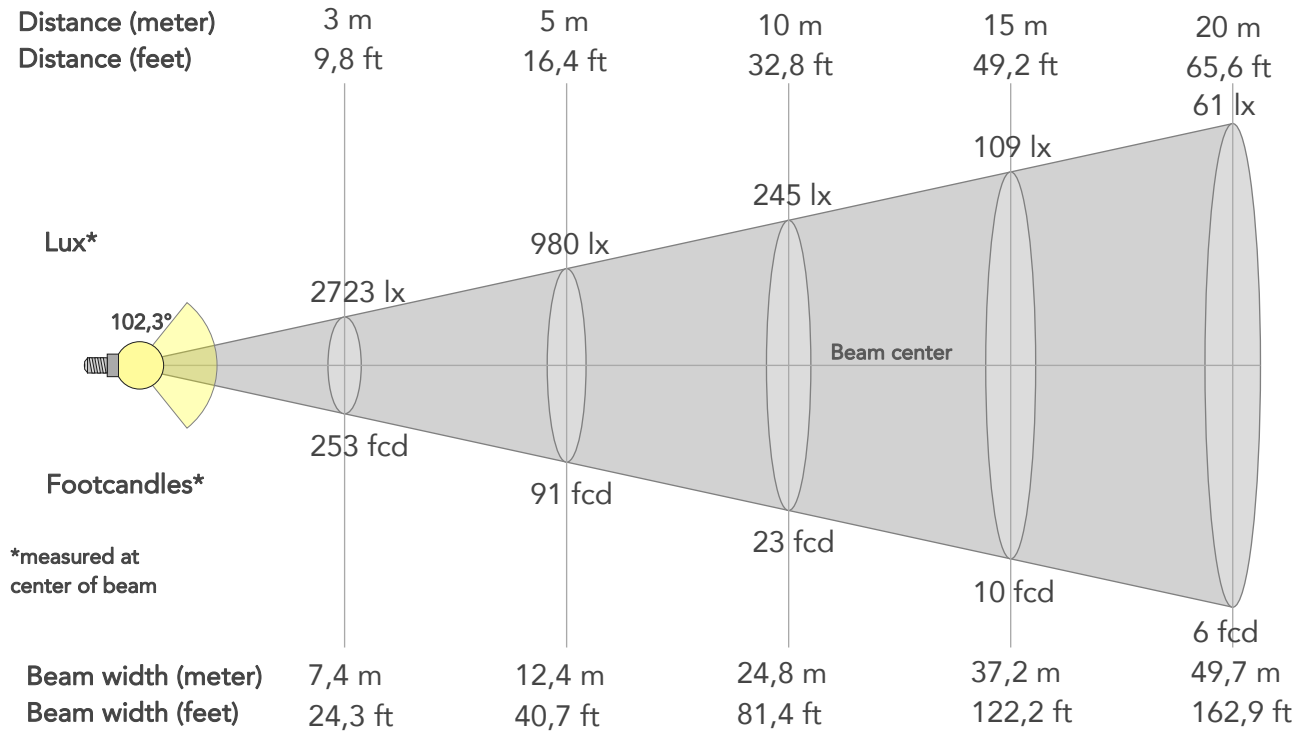
**Rg 96,9**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	77	-12%	0%
2	83	-7%	7%
3	77	-4%	12%
4	82	1%	10%
5	85	2%	6%
6	91	4%	0%
7	92	-2%	-3%
8	87	-7%	0%
9	82	-11%	11%
10	69	-7%	18%
11	67	2%	21%
12	84	5%	9%
13	86	10%	0%
14	85	6%	-5%
15	74	8%	-22%
16	87	-5%	-6%



# BEAM DETAILS

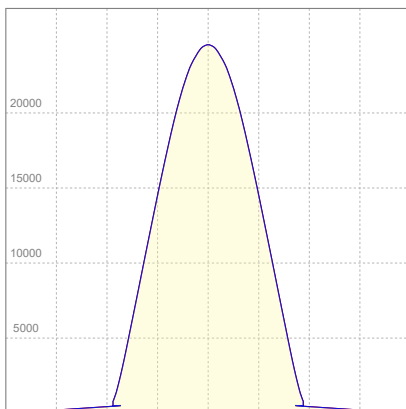
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
102,3°	156,3°	169,1°	78,9%	55,2%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	24511lx	6128lx	2723lx	1532lx	980lx	436lx	245lx	109lx	61lx	39lx	27lx	15lx	10lx
Footcand.	2277fcd	569fcd	253fcd	142fcd	91fcd	40fcd	23fcd	10fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	2,5m	5m	7,4m	9,9m	12,4m	18,6m	24,8m	37,2m	49,7m	62,1m	74,5m	99,3m	124,2m
Beam wid.	8,2ft	16,4ft	24,3ft	32,5ft	40,7ft	61,1ft	81,4ft	122,2ft	162,9ft	203,6ft	244,3ft	325,8ft	407,2ft

## LINEAR DISTRIBUTION DIAGRAM

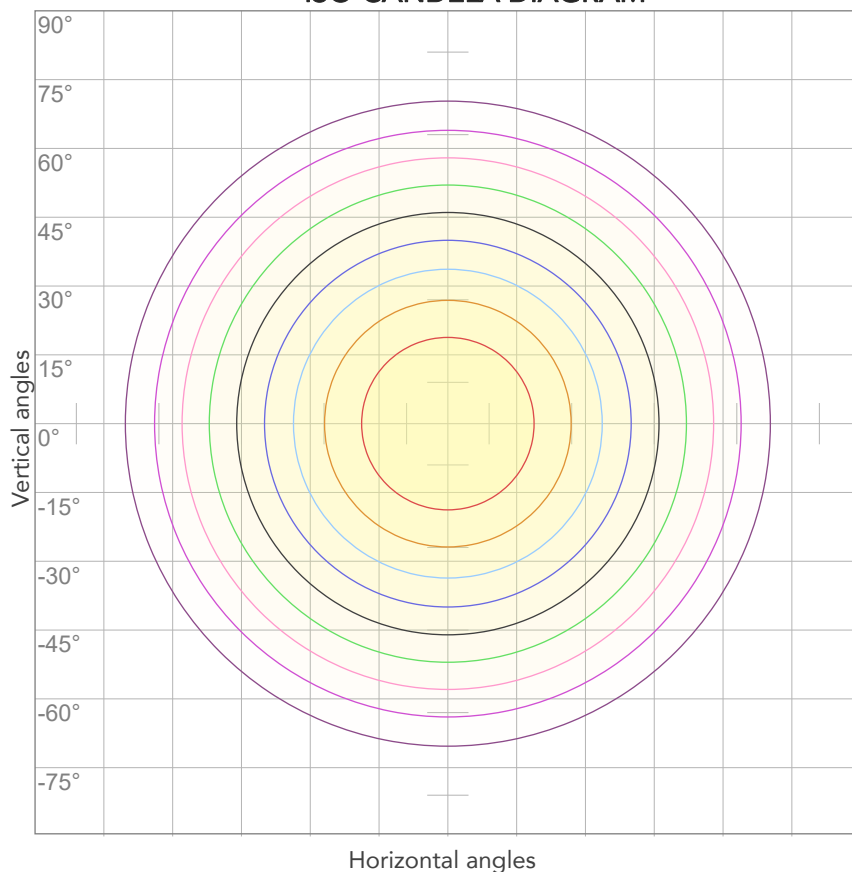


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	2,46A	555W	1,0	116lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



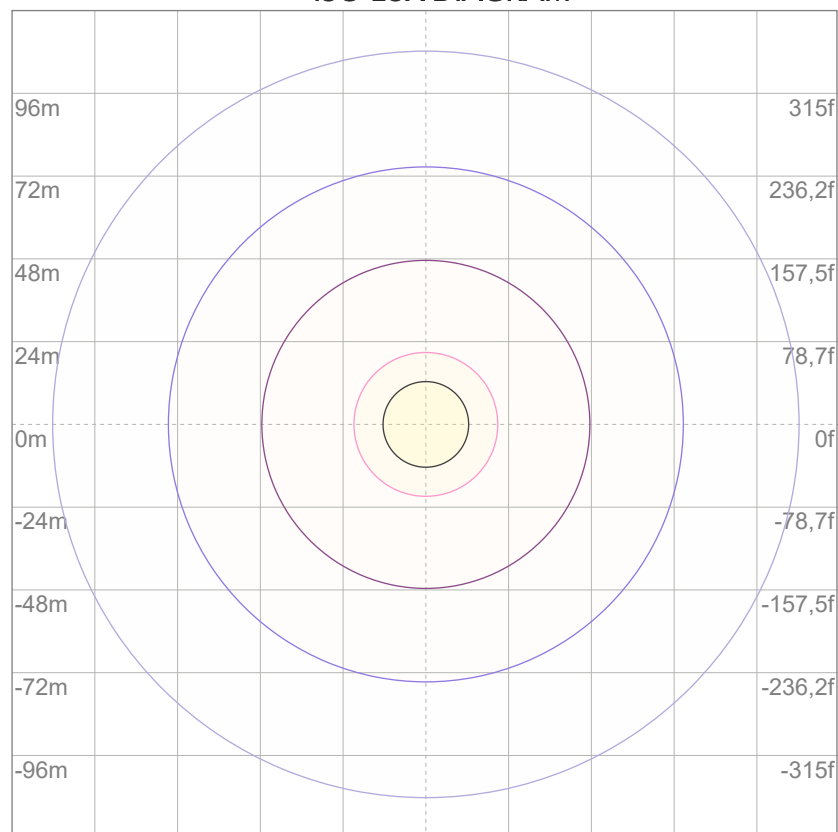
10%	2451 cd
20%	4902 cd
30%	7353 cd
40%	9804 cd
50%	12255 cd
60%	14706 cd
70%	17157 cd
80%	19608 cd

### Conditions:

Number of c-planes: 4

Candela at center: 24511 cd

## ISO LUX DIAGRAM



3%	7,35 lx
5%	12,3 lx
10%	24,5 lx
30%	73,5 lx
50%	123 lx

### Conditions:

Number of c-planes: 4

Lux at center: 245 lx

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



Total lumen output:

59168 lm

Peak candela output:

22954 cd

Light quality:

CRI: 96,4

Color temperature:

3281 K

**PRODUCT NAME:**  
ECLPANELIP SOFT 2X1

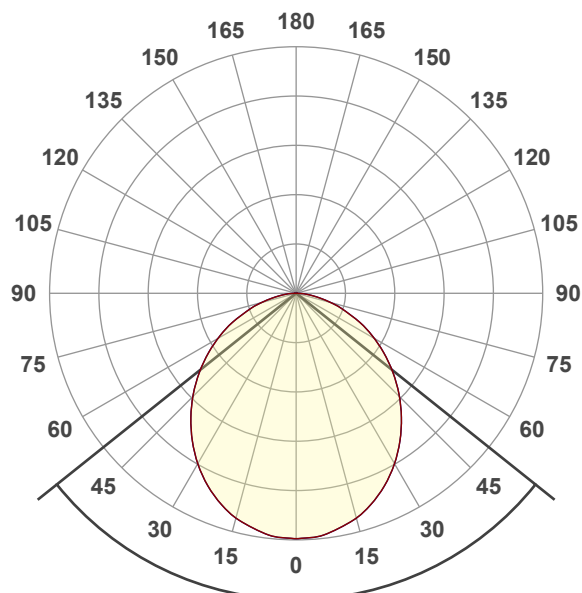
**MEASURAMENT CONDITIONS:**

Beam angle:  
MD Filter

Target:  
3200K - HQ

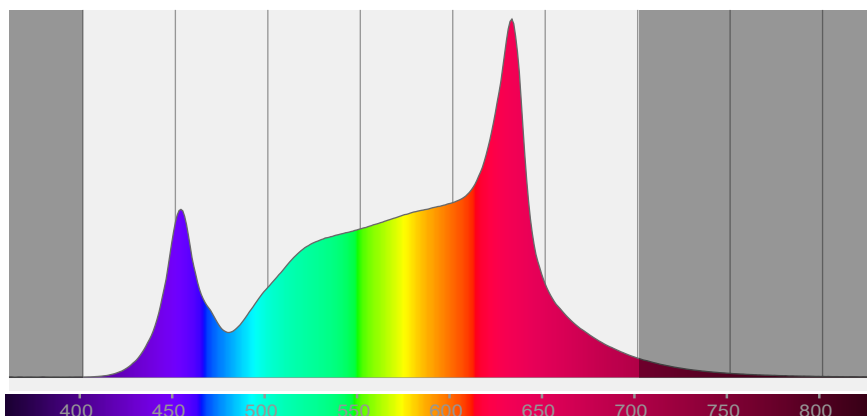
Operator:  
Salvatore Giglio

Date and time:  
06/09/2024 13:15:11

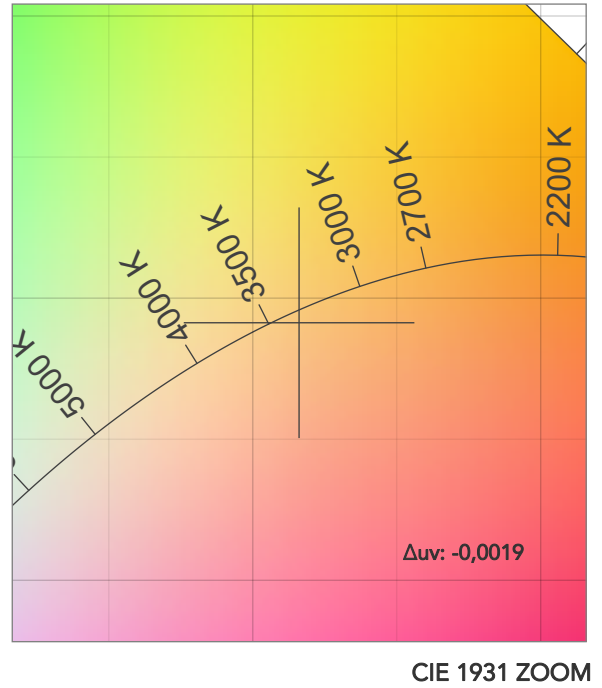
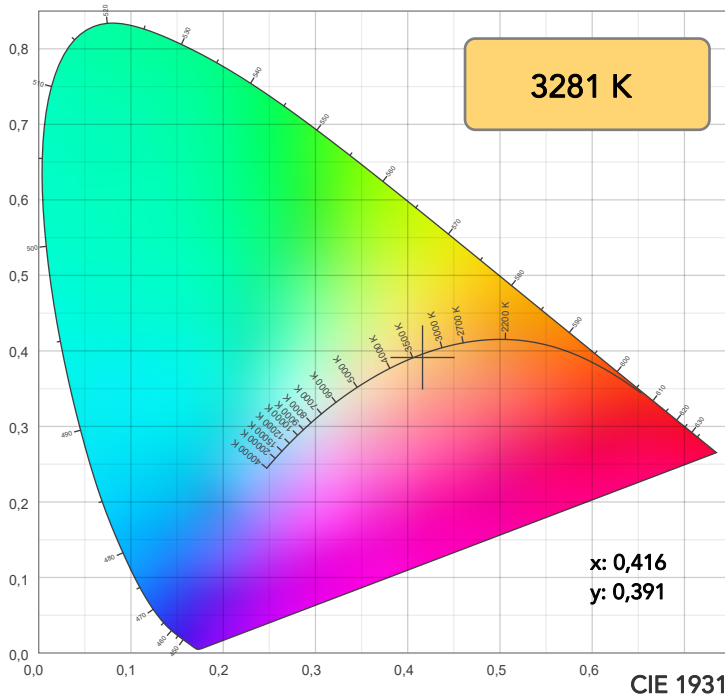


Beam angle 50%: 102,8°  
Field angle 10%: 157,2°  
Cut off angle 2.5%: 174,2°

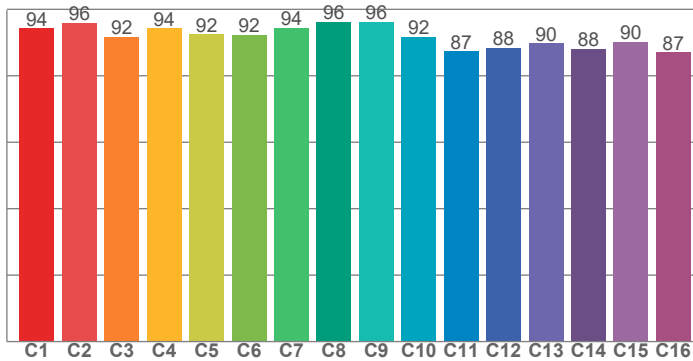
**Spectra**



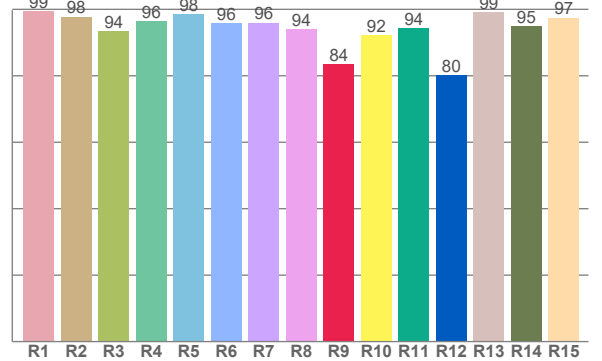
## COLOR DETAILS



**TM30: 92,2**



**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
99,4	97,8	93,5	96,4	98,4	95,9	96,0	94,1	83,6	92,2	94,3	80,1	99,1	94,9	97,4

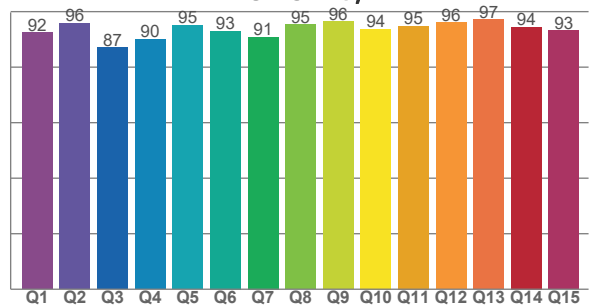
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	96,0	91,6	94,2	92,4	92,3	94,4	96,1	96,3	91,7	87,4	88,3	89,7	88,2	90,2	87,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,4	95,8	87,1	90,0	95,1	93,0	90,9	95,3	96,4	93,8	94,9	96,1	97,2	94,4	93,2

**CQS: 93,1**



## 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	$\Delta uv$
3281 K	96,4	83,6	92,2	102,5	93,1	88	0,416	0,391	-0,0019

## TM30 DETAILS

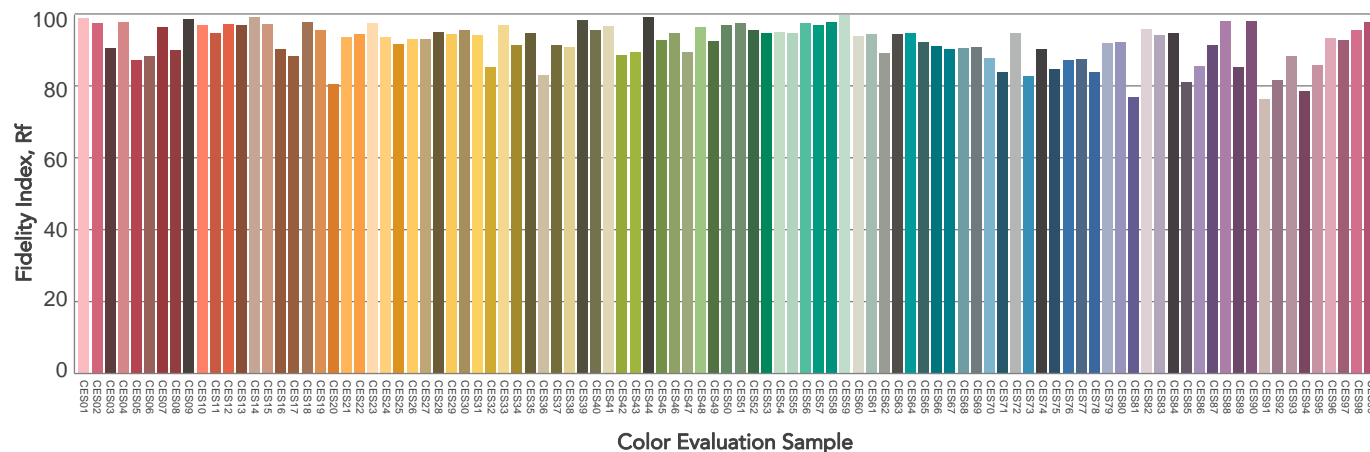
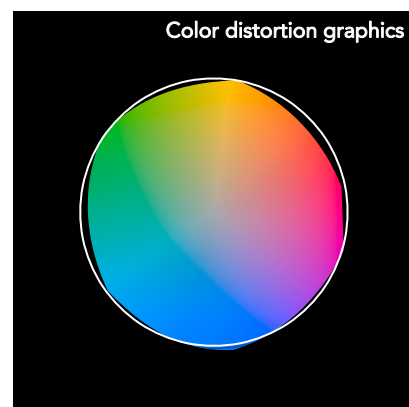
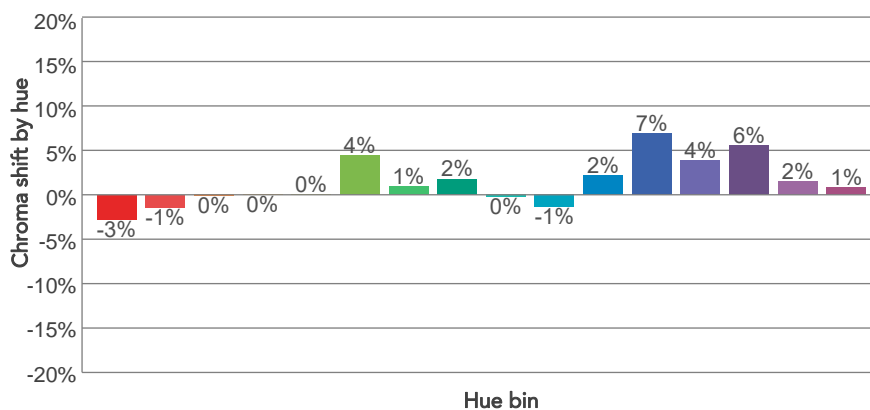
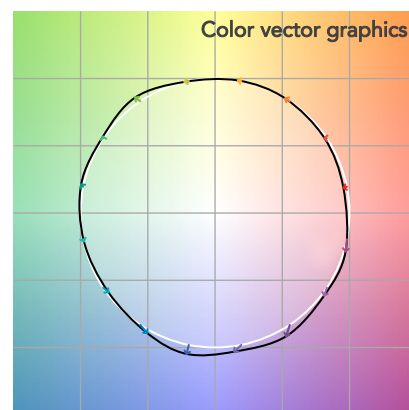
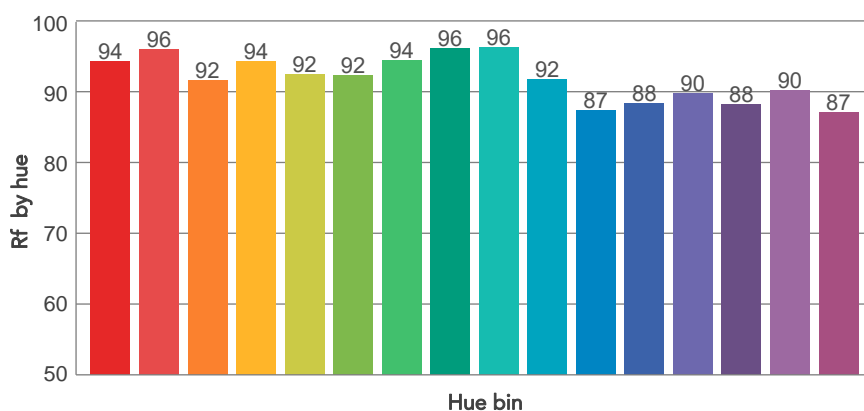
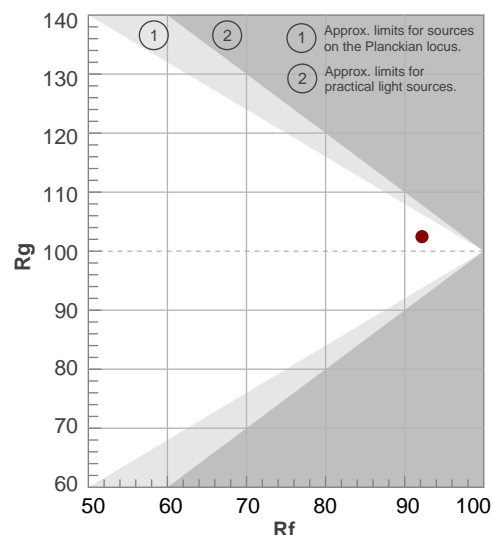
**Rf 92,2**

Fidelity index Rf

**Rg 102,5**

Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	0%
2	96	-1%	1%
3	92	0%	4%
4	94	0%	2%
5	92	0%	3%
6	92	4%	2%
7	94	1%	-1%
8	96	2%	-1%
9	96	0%	2%
10	92	-1%	5%
11	87	2%	8%
12	88	7%	0%
13	90	4%	-6%
14	88	6%	-7%
15	90	2%	-6%
16	87	1%	-9%

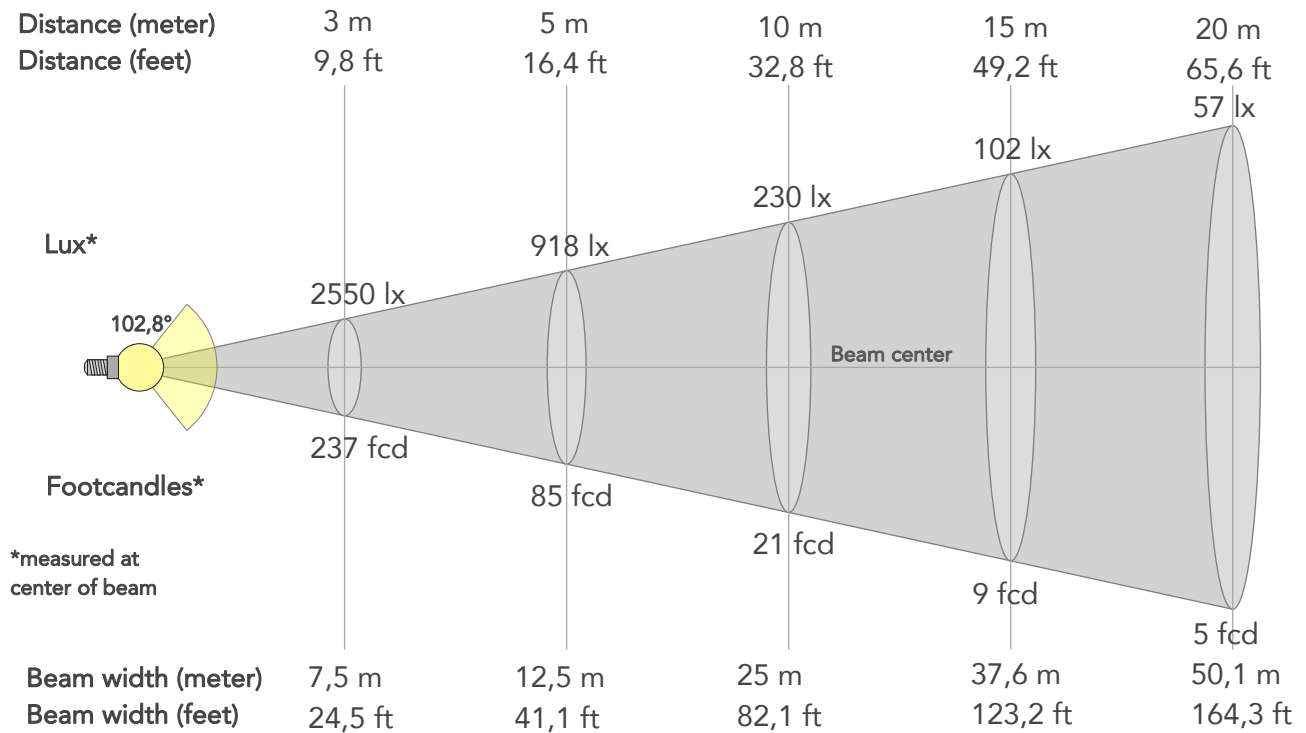




# BEAM DETAILS



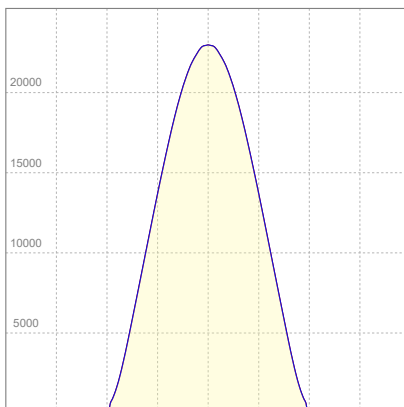
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
102,8°	157,2°	174,2°	80,5%	56,3%



## 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	22954lx	5739lx	2550lx	1435lx	918lx	408lx	230lx	102lx	57lx	37lx	26lx	14lx	9lx
Footcand.	2133fcd	533fcd	237fcd	133fcd	85fcd	38fcd	21fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	2,5m	5m	7,5m	10m	12,5m	18,8m	25m	37,6m	50,1m	62,6m	75,1m	100,2m	125,2m
Beam wid.	8,3ft	16,5ft	24,5ft	32,8ft	41,1ft	61,6ft	82,1ft	123,2ft	164,3ft	205,3ft	246,4ft	328,5ft	410,6ft

## LINEAR DISTRIBUTION DIAGRAM

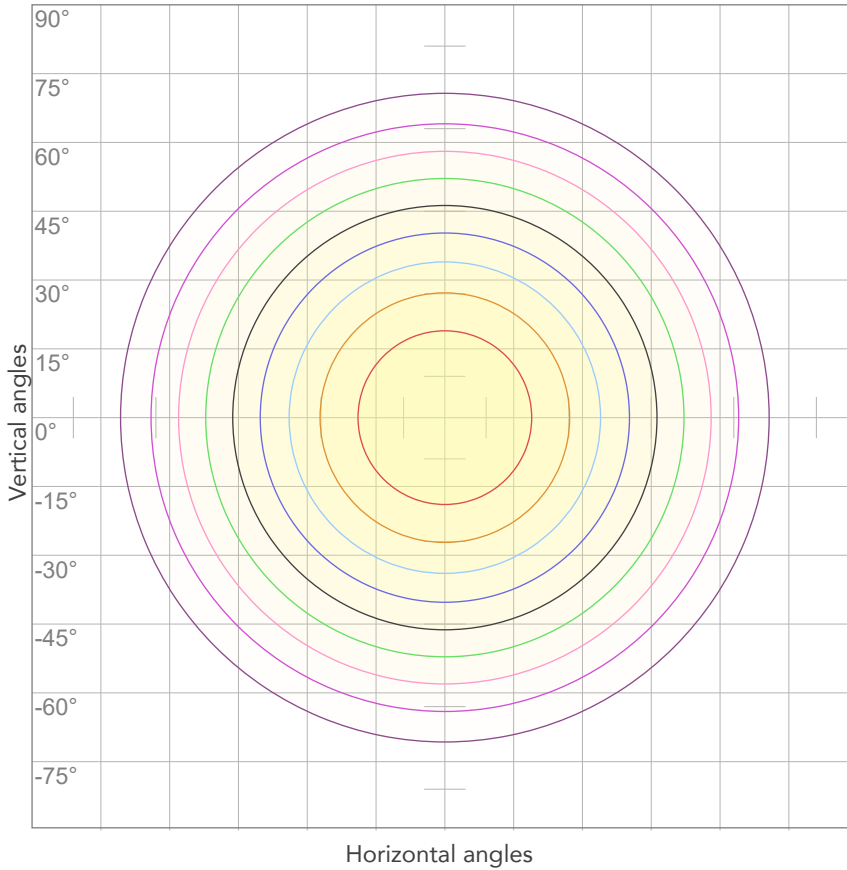


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	2,46A	550W	1,0	108lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



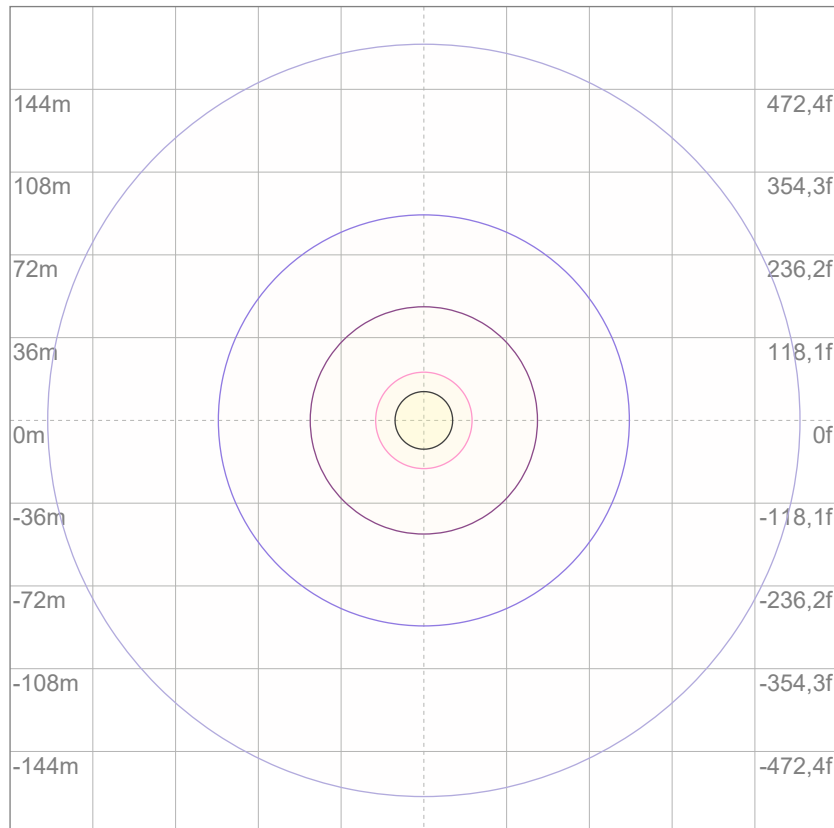
10%	2295 cd
20%	4591 cd
30%	6886 cd
40%	9182 cd
50%	11477 cd
60%	13773 cd
70%	16068 cd
80%	18363 cd

### Conditions:

Number of c-planes: 4

Candela at center: 22954 cd

## ISO LUX DIAGRAM



3%	6,89 lx
5%	11,5 lx
10%	23,0 lx
30%	68,9 lx
50%	115 lx

### Conditions:

Number of c-planes: 4

Lux at center: 230 lx

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



Total lumen output:

57200 lm

Peak candela output:

21049 cd

Light quality:

CRI: 96,8

Color temperature:

5660 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

MD Filter

Target:

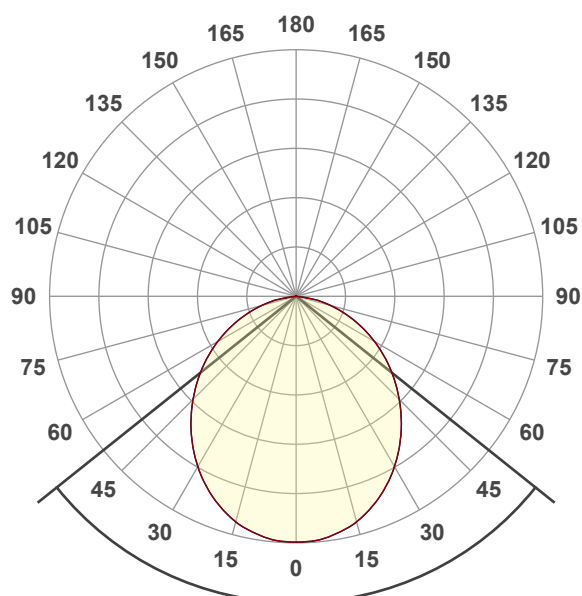
5600K - HQ

Operator:

Salvatore Giglio

Date and time:

06/09/2024 14:10:04

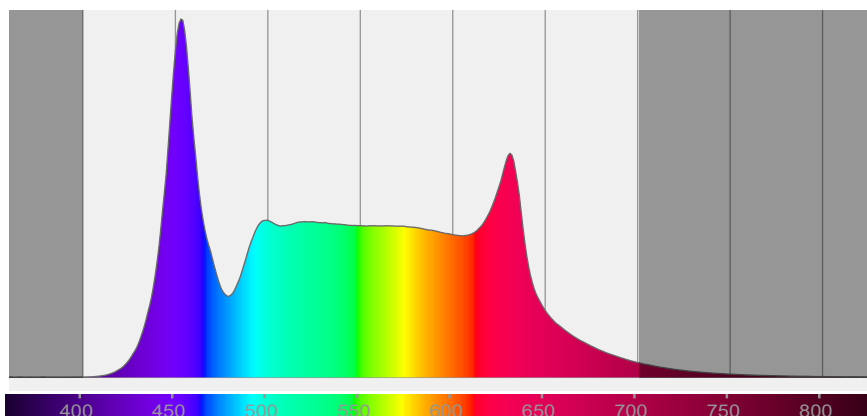


Beam angle 50%: 102,8°

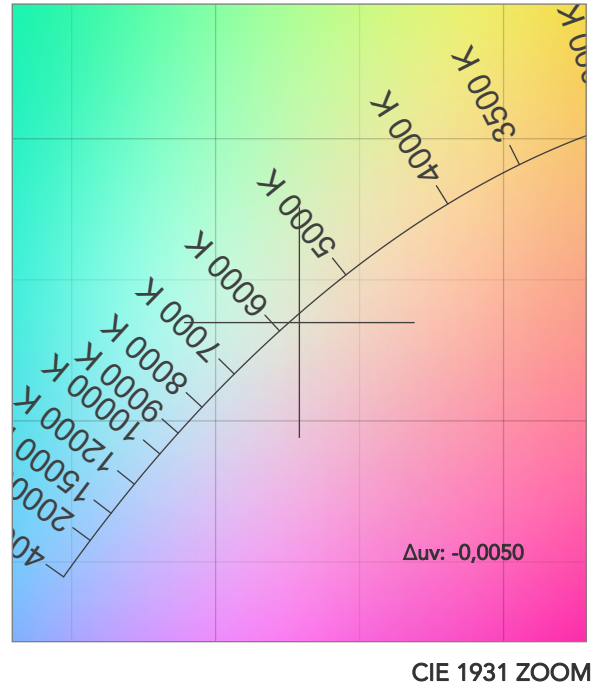
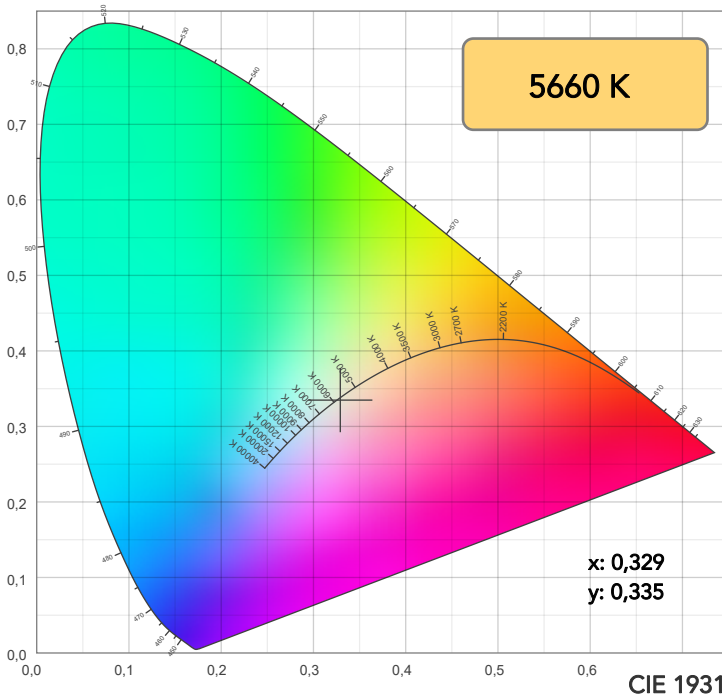
Field angle 10%: 156,9°

Cut off angle 2.5%: 229,6°

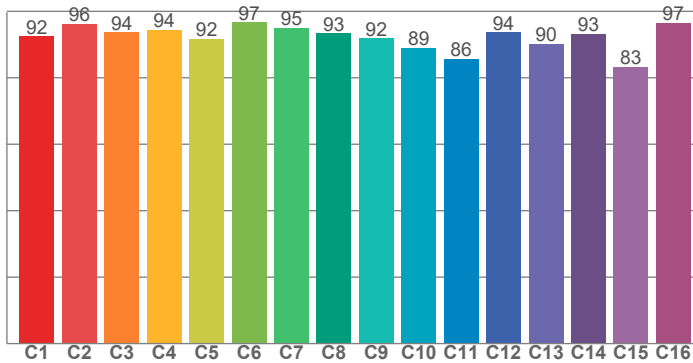
**Spectra**



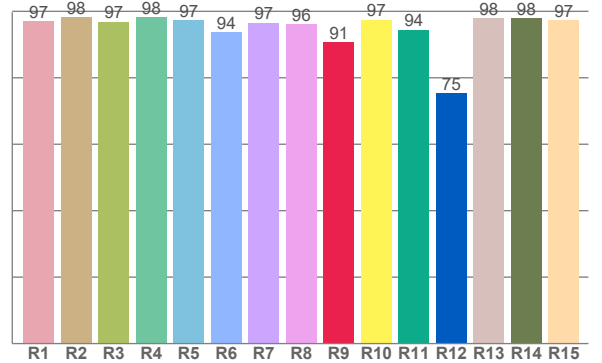
# COLOR DETAILS



TM30: 92,2



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
97,0	98,3	96,9	98,2	97,4	93,7	96,5	96,1	90,8	97,5	94,4	75,4	97,9	97,9	97,4

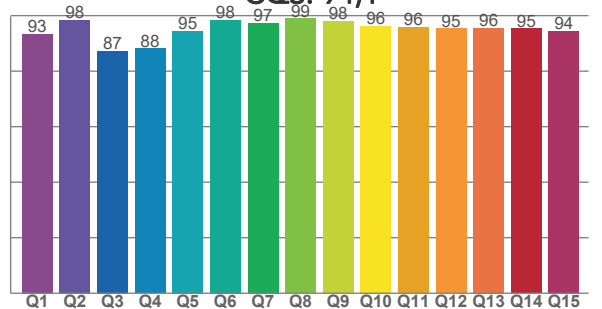
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,4	96,2	93,7	94,4	91,8	96,7	95,0	93,3	91,8	88,9	85,8	93,6	90,3	93,2	83,3	96,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,4	98,5	87,2	88,2	94,5	98,4	97,4	98,9	98,0	96,2	95,8	95,4	95,5	95,4	94,5

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	$\Delta uv$
5660 K	96,8	90,8	92,2	101,0	94,1	94	0,329	0,335	-0,0050

## TM30 DETAILS

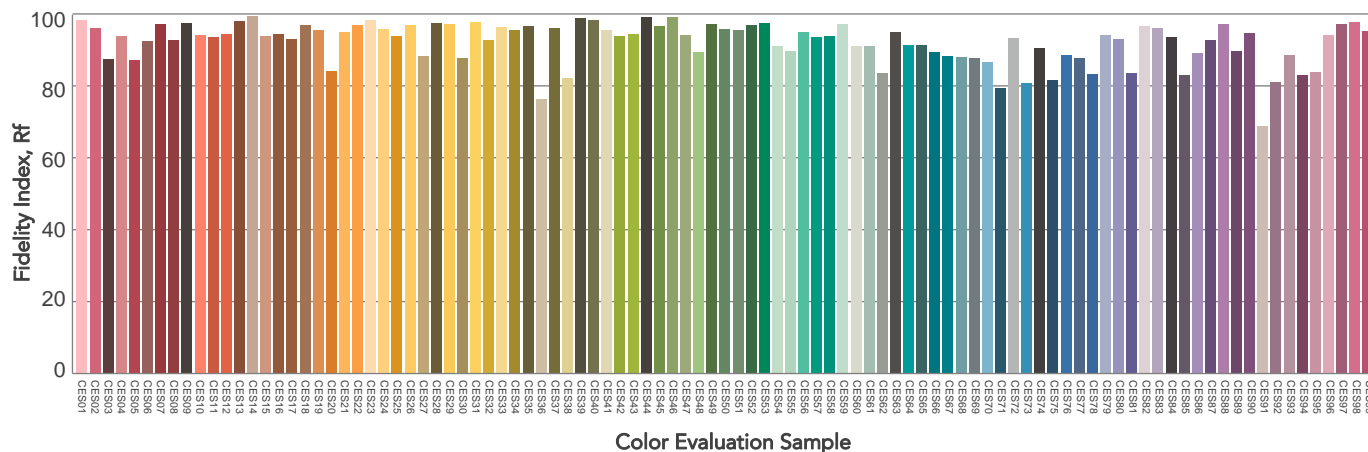
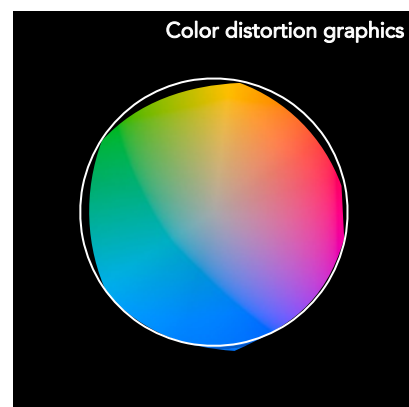
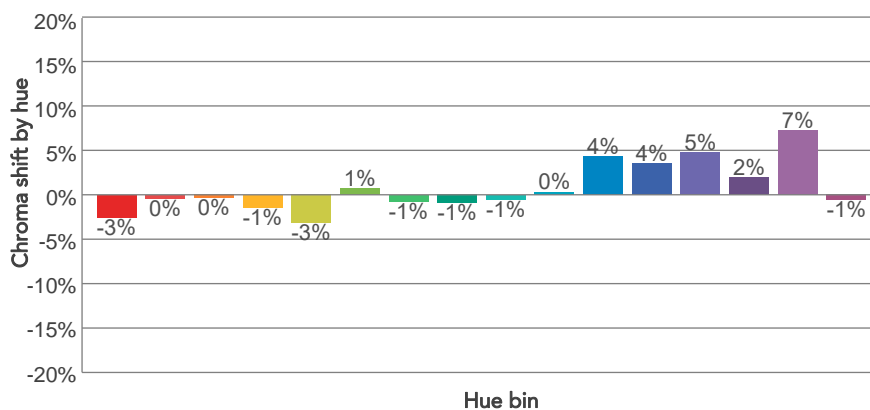
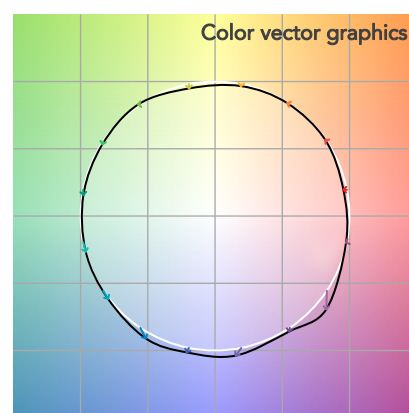
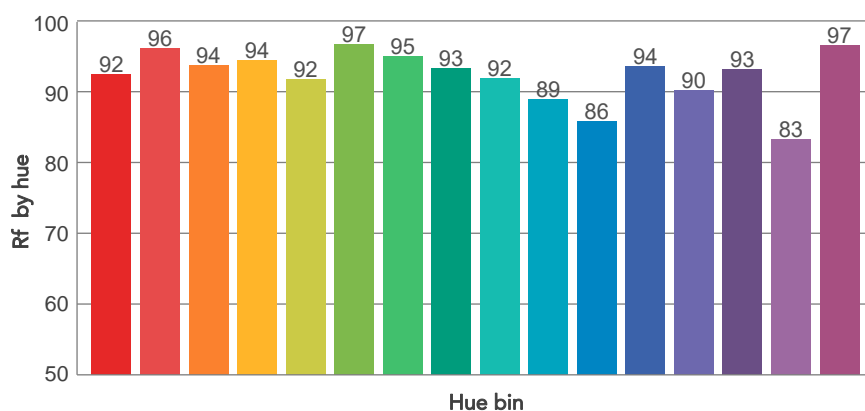
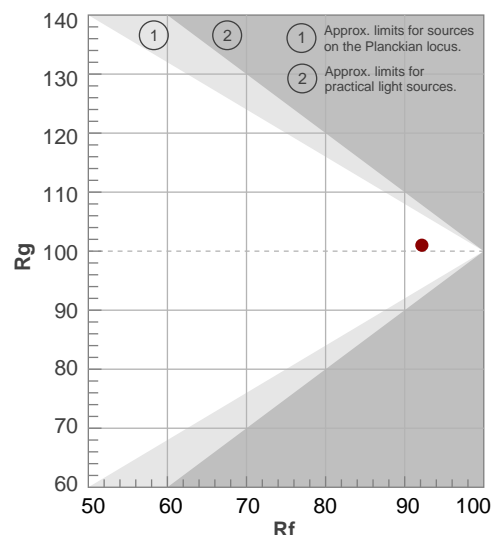
**Rf 92,2**

Fidelity index Rf

**Rg 101,0**

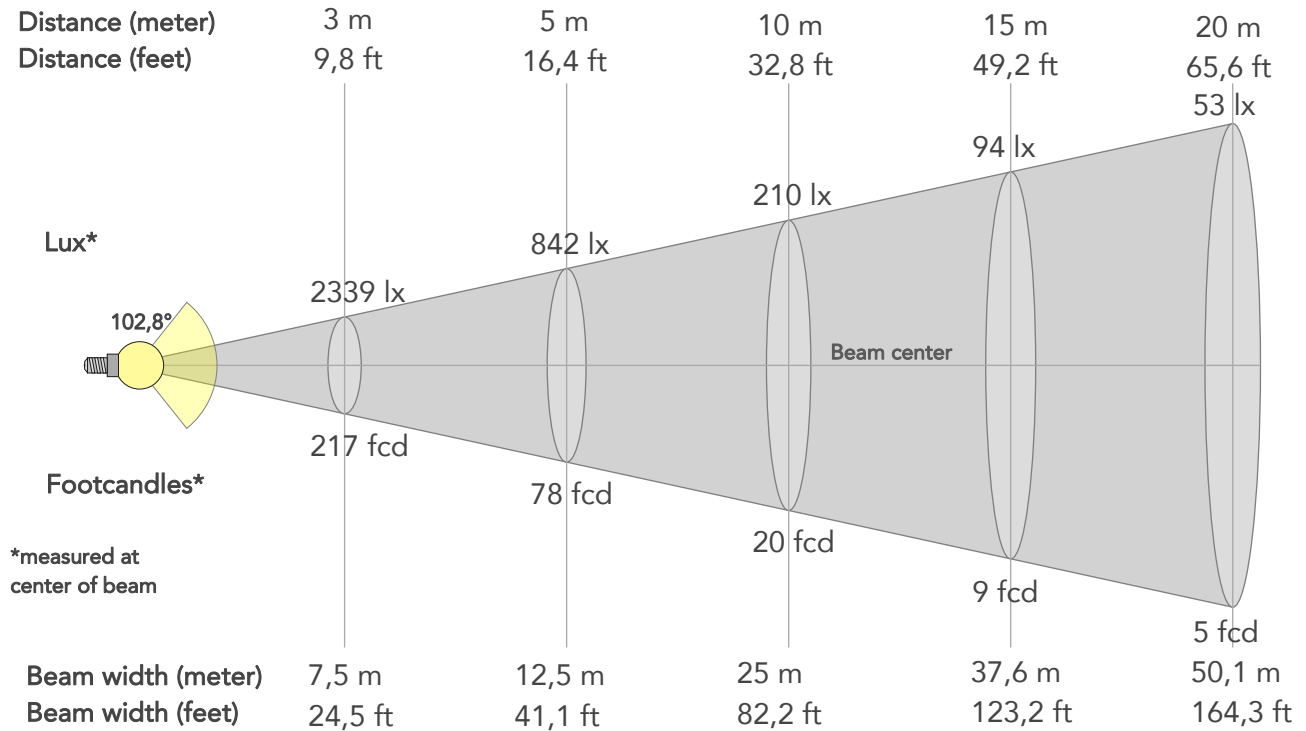
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	1%
2	96	0%	2%
3	94	0%	2%
4	94	-1%	0%
5	92	-3%	0%
6	97	1%	1%
7	95	-1%	2%
8	93	-1%	4%
9	92	-1%	7%
10	89	0%	7%
11	86	4%	8%
12	94	4%	-1%
13	90	5%	-5%
14	93	2%	-2%
15	83	7%	-12%
16	97	-1%	0%



# BEAM DETAILS

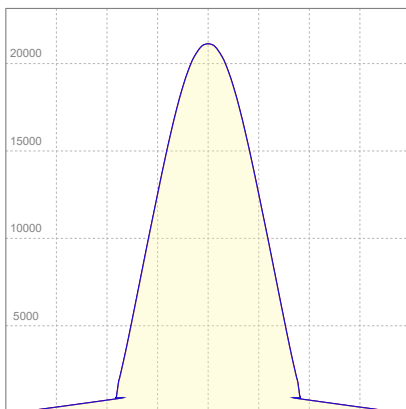
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
102,8°	156,9°	229,6°	76,4%	53,5%



## 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	21049lx	5262lx	2339lx	1316lx	842lx	374lx	210lx	94lx	53lx	34lx	23lx	13lx	8lx
Footcand.	1956fcd	489fcd	217fcd	122fcd	78fcd	35fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	2,5m	5m	7,5m	10m	12,5m	18,8m	25m	37,6m	50,1m	62,6m	75,1m	100,2m	125,2m
Beam wid.	8,3ft	16,5ft	24,5ft	32,8ft	41,1ft	61,6ft	82,2ft	123,2ft	164,3ft	205,4ft	246,5ft	328,6ft	410,8ft

## LINEAR DISTRIBUTION DIAGRAM

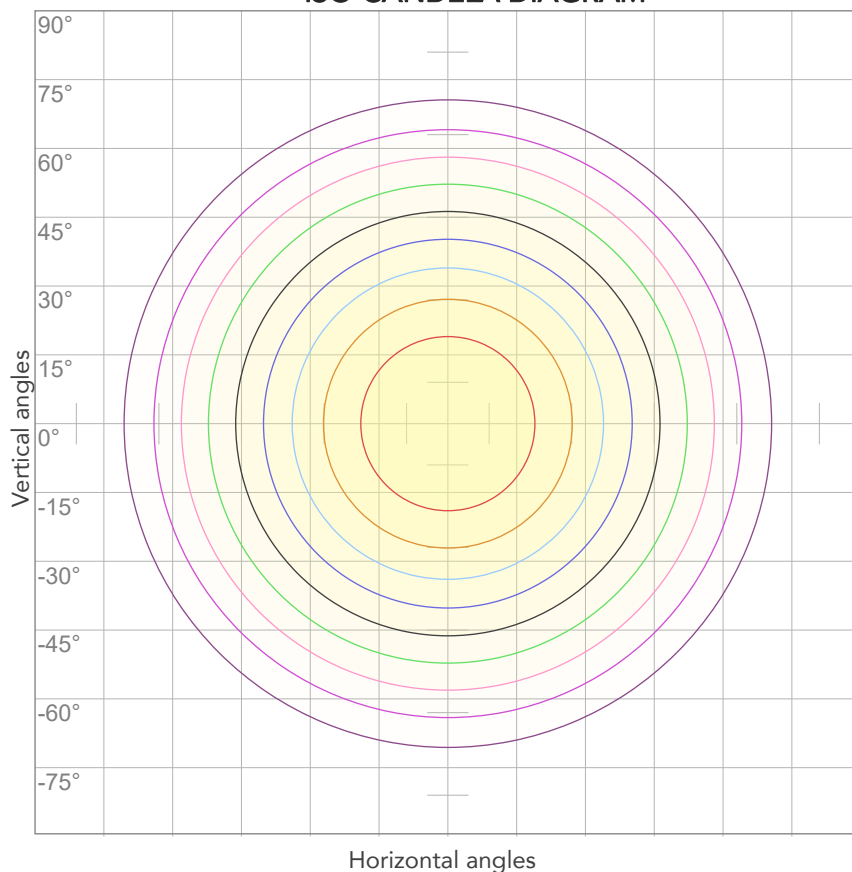


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	2,42A	547W	1,0	105lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



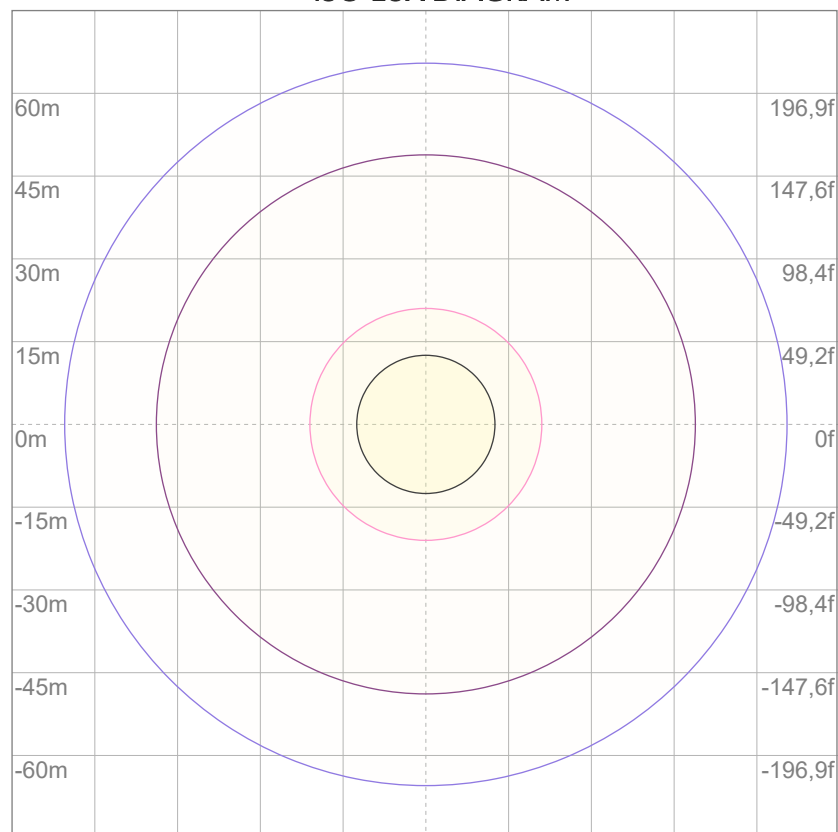
10%	2105 cd
20%	4210 cd
30%	6315 cd
40%	8420 cd
50%	10524 cd
60%	12629 cd
70%	14734 cd
80%	16839 cd

### Conditions:

Number of c-planes: 4

Candela at center: 21049 cd

## ISO LUX DIAGRAM



3%	6,31 lx
5%	10,5 lx
10%	21,0 lx
30%	63,1 lx
50%	105 lx

### Conditions:

Number of c-planes: 4

Lux at center: 210 lx

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



Total lumen output:

51181 lm

Peak candela output:

17585 cd

Light quality:

CRI: 95,1

Color temperature:

3277 K

**PRODUCT NAME:**  
ECLPANELIP SOFT 2X1

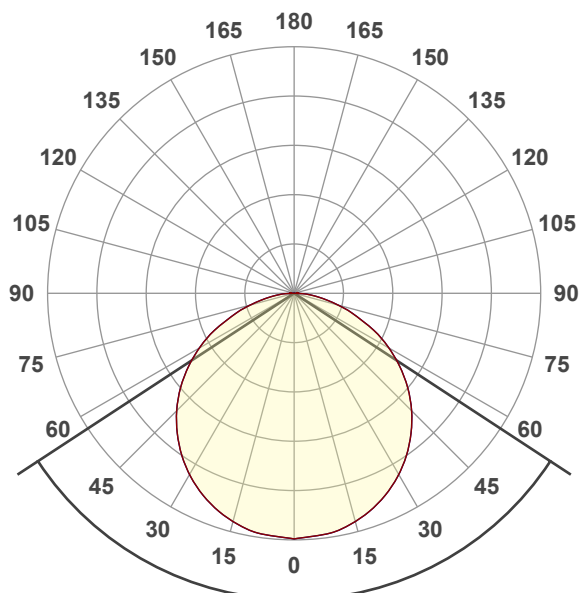
**MEASURAMENT CONDITIONS:**

Beam angle:  
HD Filter

Target:  
3200K - HB

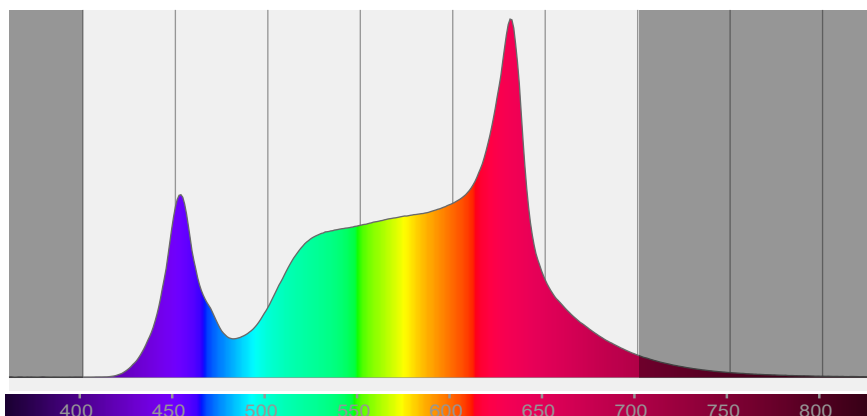
Operator:  
Salvatore Giglio

Date and time:  
10/09/2024 17:31:41



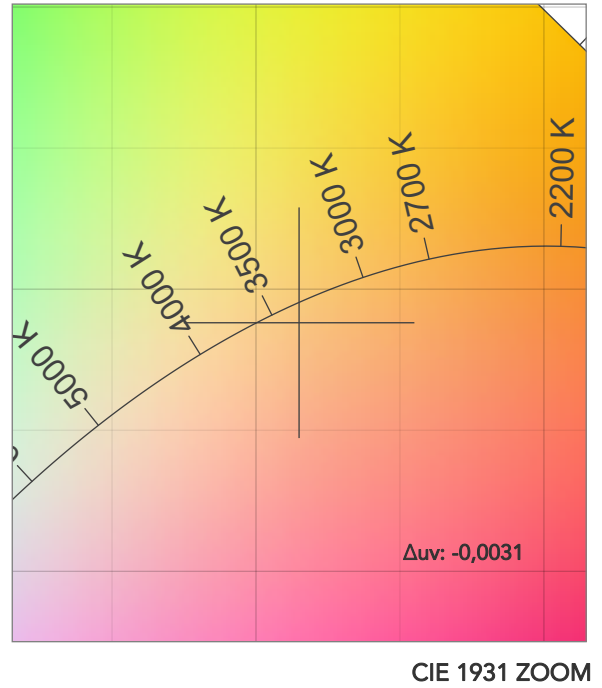
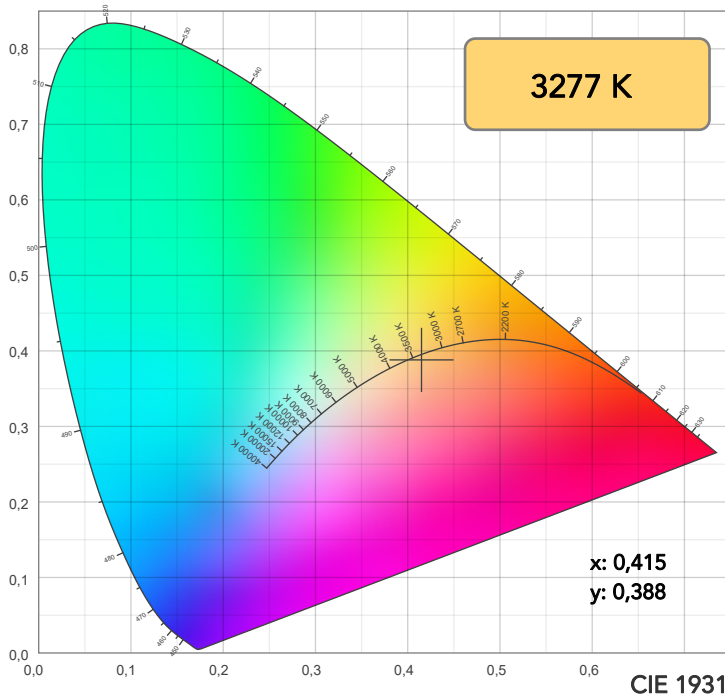
Beam angle 50%: 113,5°  
Field angle 10%: 162,4°  
Cut off angle 2.5%: 175,6°

**Spectra**

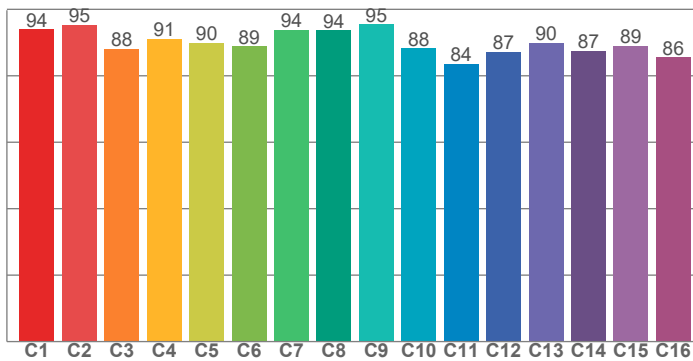




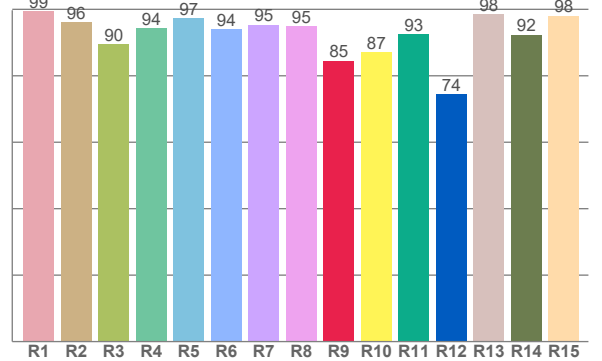
## COLOR DETAILS



TM30: 90,2



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
99,4	96,1	89,5	94,3	97,3	94,0	95,4	94,9	84,5	87,1	92,6	74,4	98,5	92,4	98,1

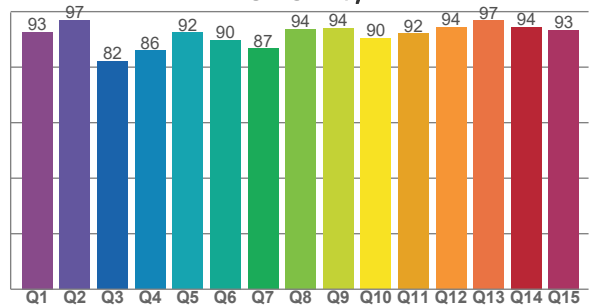
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,0	95,3	88,1	91,0	89,9	88,9	93,8	93,7	95,4	88,3	83,6	87,2	89,8	87,4	89,0	85,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,7	96,9	82,1	86,0	92,4	89,7	86,6	93,7	94,0	90,4	92,1	94,5	96,7	94,5	93,4

CQS: 90,7



## 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	$\Delta uv$
3277 K	95,1	84,5	90,2	104,2	90,7	85	0,415	0,388	-0,0031

## TM30 DETAILS

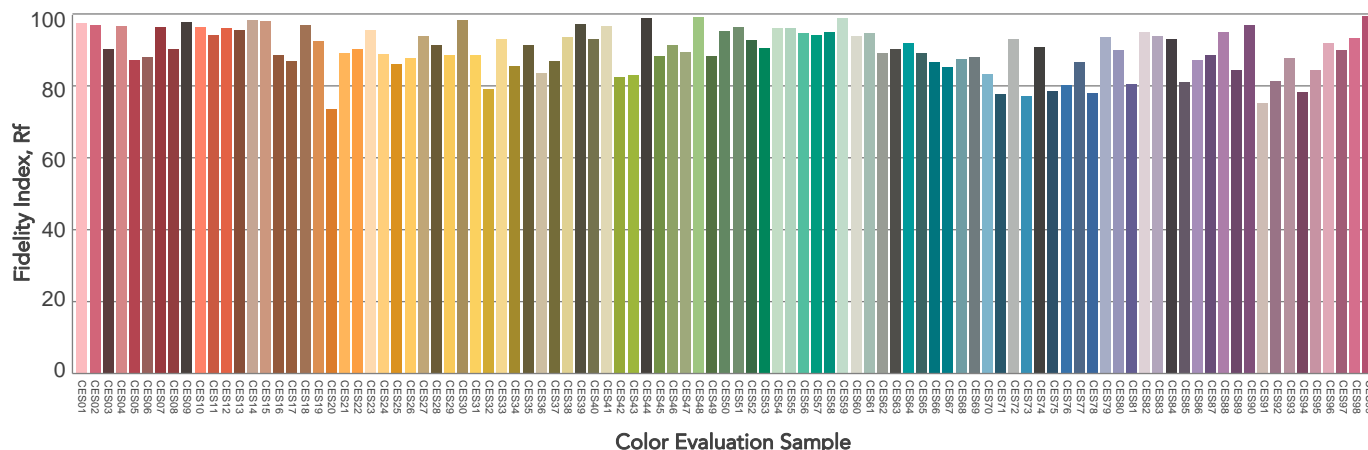
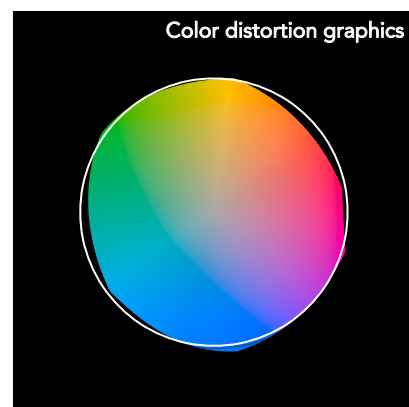
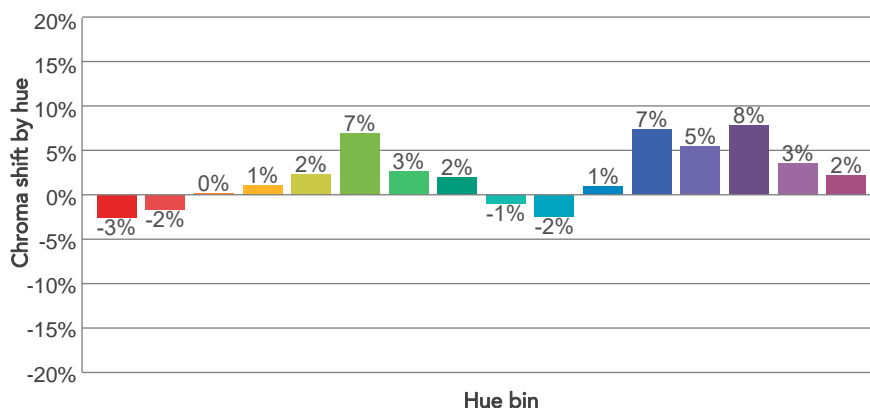
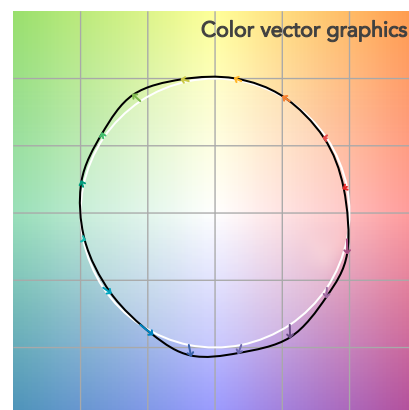
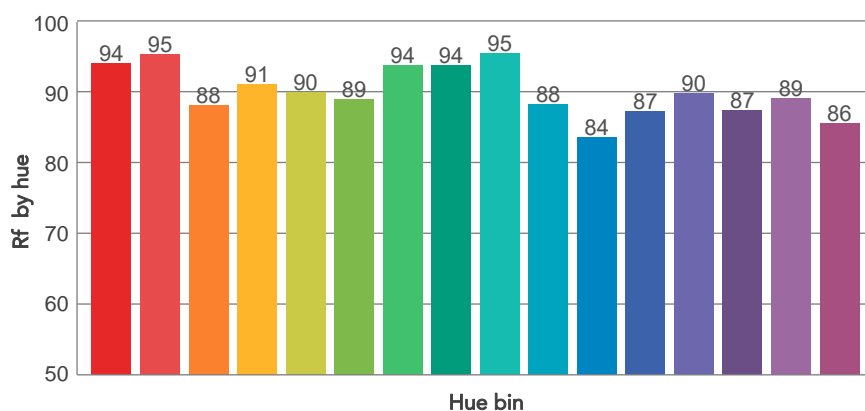
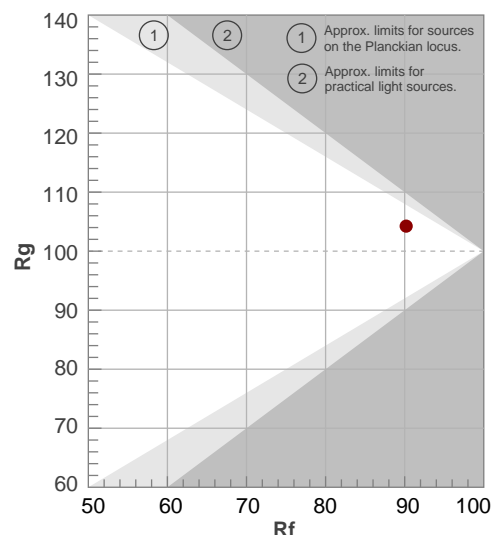
**Rf 90,2**

Fidelity index Rf

**Rg 104,2**

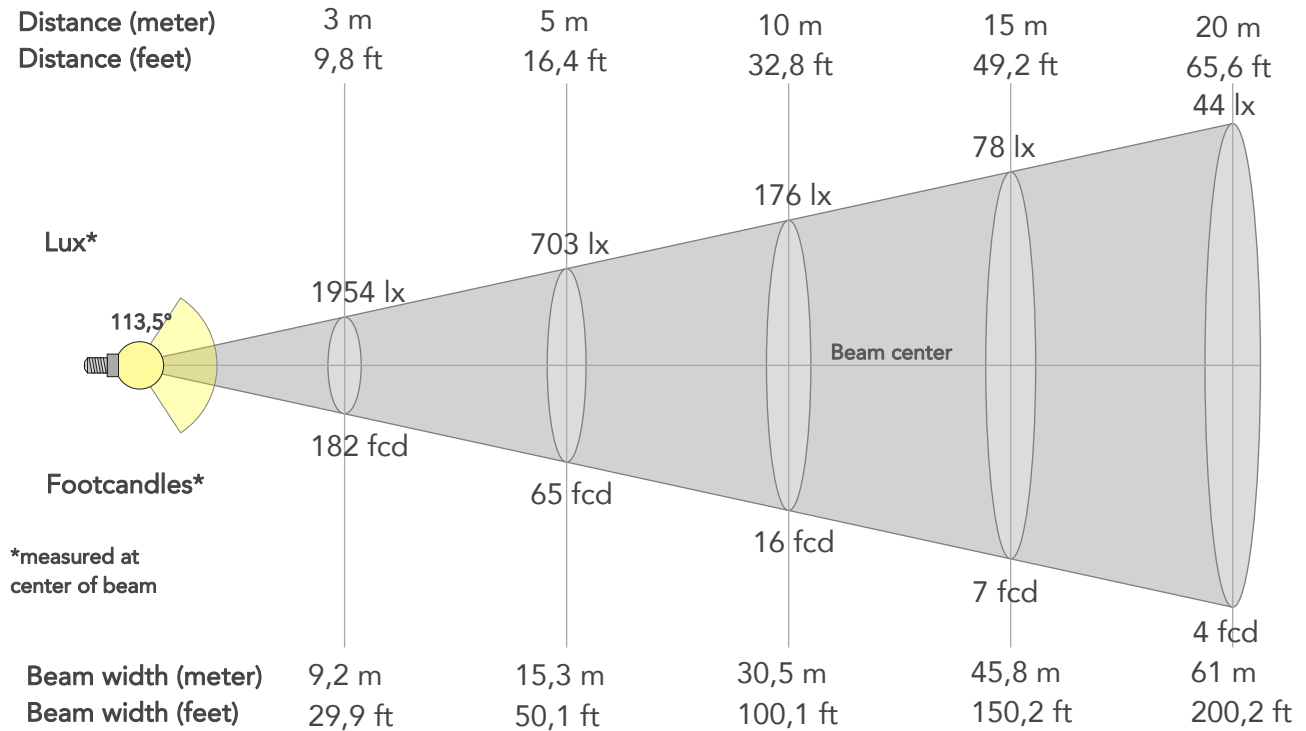
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	95	-2%	2%
3	88	0%	6%
4	91	1%	5%
5	90	2%	5%
6	89	7%	2%
7	94	3%	-2%
8	94	2%	-4%
9	95	-1%	1%
10	88	-2%	6%
11	84	1%	11%
12	87	7%	3%
13	90	5%	-3%
14	87	8%	-5%
15	89	3%	-6%
16	86	2%	-10%



# BEAM DETAILS

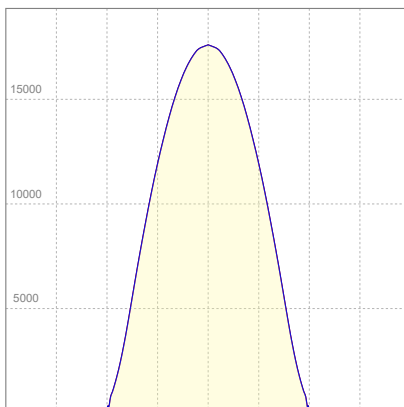
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
113,5°	162,4°	175,6°	78,2%	53,0%



## 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	17585lx	4396lx	1954lx	1099lx	703lx	313lx	176lx	78lx	44lx	28lx	20lx	11lx	7lx
Footcand.	1634fcd	408fcd	182fcd	102fcd	65fcd	29fcd	16fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	3,1m	6,1m	9,2m	12,2m	15,3m	22,9m	30,5m	45,8m	61m	76,3m	91,6m	122,1m	152,6m
Beam wid.	10,1ft	20,1ft	29,9ft	40ft	50,1ft	75,1ft	100,1ft	150,2ft	200,2ft	250,3ft	300,3ft	400,4ft	500,5ft

## LINEAR DISTRIBUTION DIAGRAM

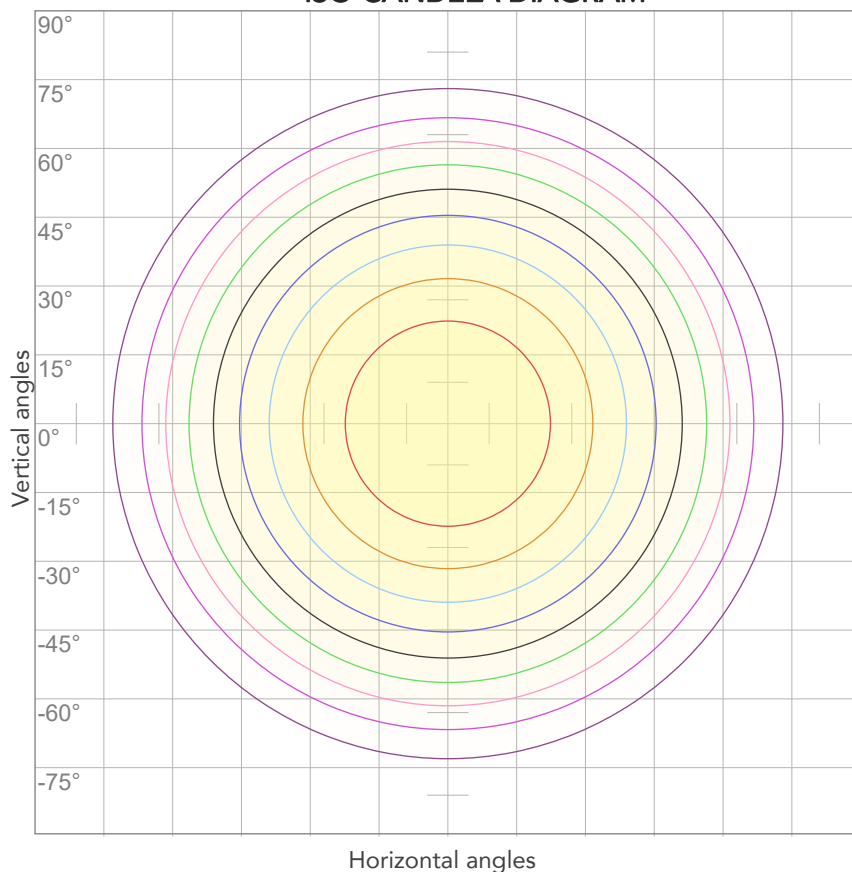


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
224V	2,42A	543W	1,0	94m/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



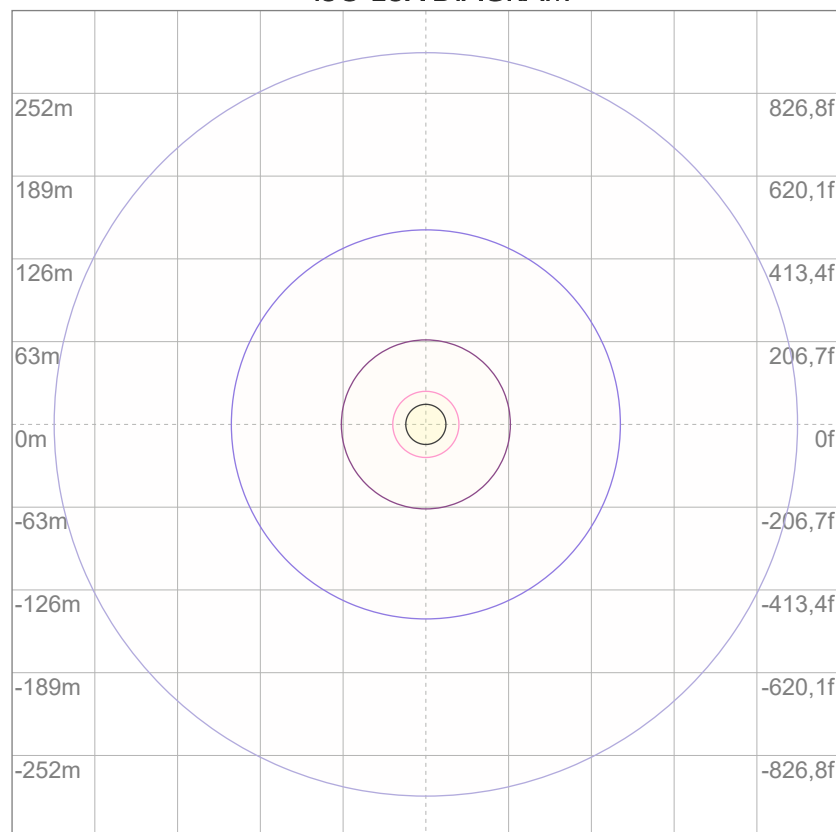
10%	1759 cd
20%	3517 cd
30%	5276 cd
40%	7034 cd
50%	8793 cd
60%	10551 cd
70%	12310 cd
80%	14068 cd

### Conditions:

Number of c-planes: 4

Candela at center: 17585 cd

## ISO LUX DIAGRAM



3%	5,28 lx
5%	8,79 lx
10%	17,6 lx
30%	52,8 lx
50%	87,9 lx

### Conditions:

Number of c-planes: 4

Lux at center: 176 lx

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



Total lumen output:

52521 lm

Peak candela output:

17987 cd

Light quality:

CRI: 86,3

Color temperature:

5666 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

HD Filter

Target:

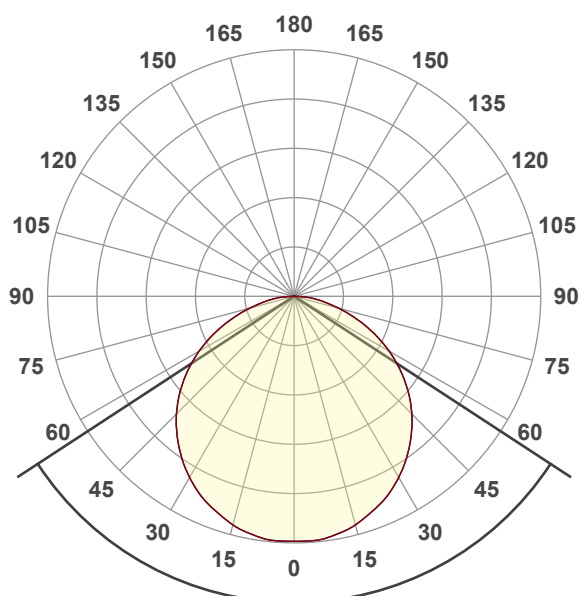
5600K - HB

Operator:

Salvatore Giglio

Date and time:

10/09/2024 17:35:49

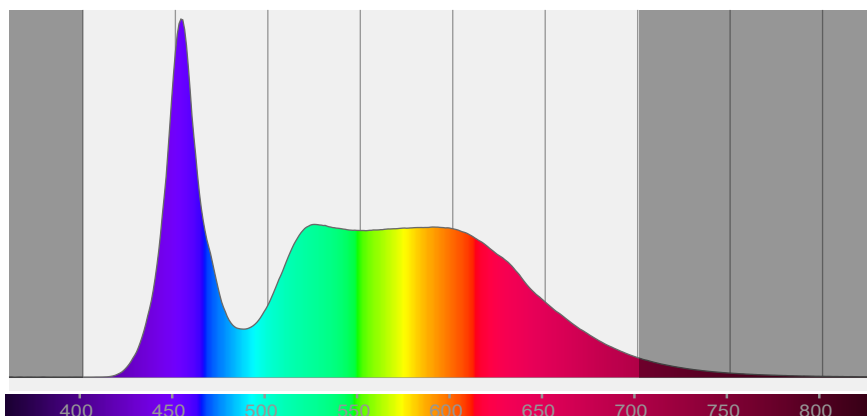


Beam angle 50%: 113,7°

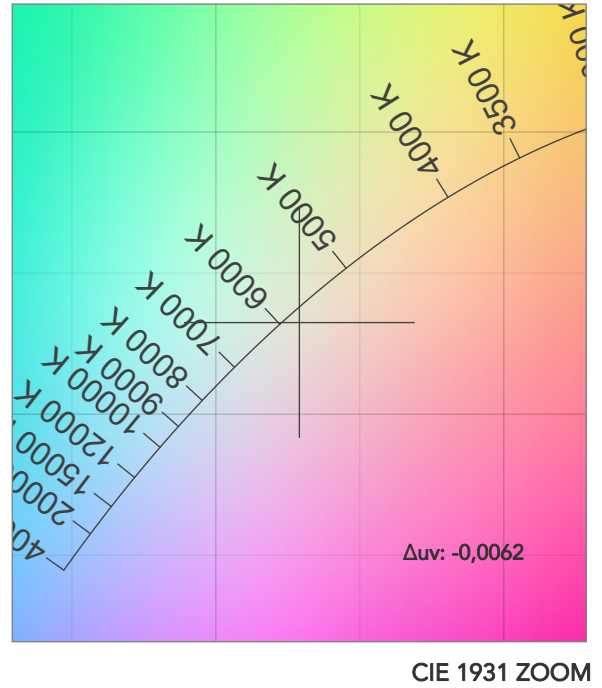
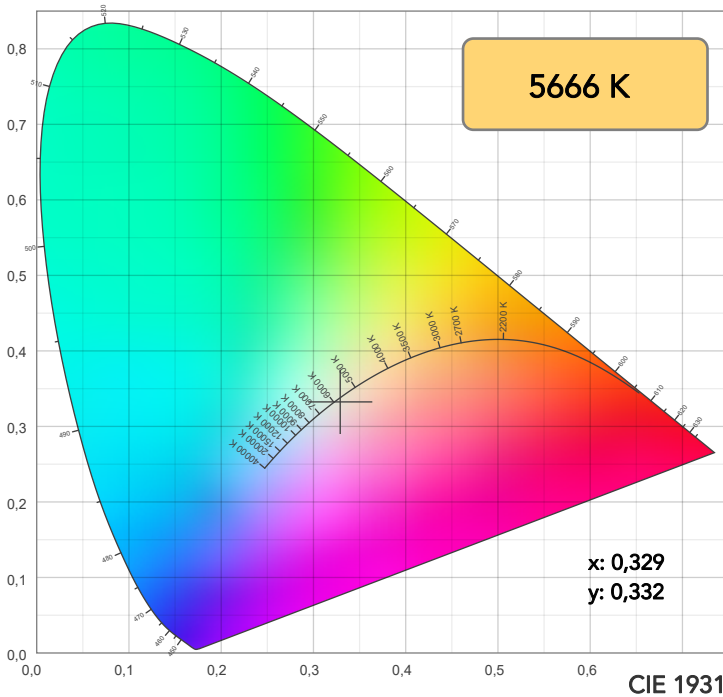
Field angle 10%: 163°

Cut off angle 2.5%: 175,2°

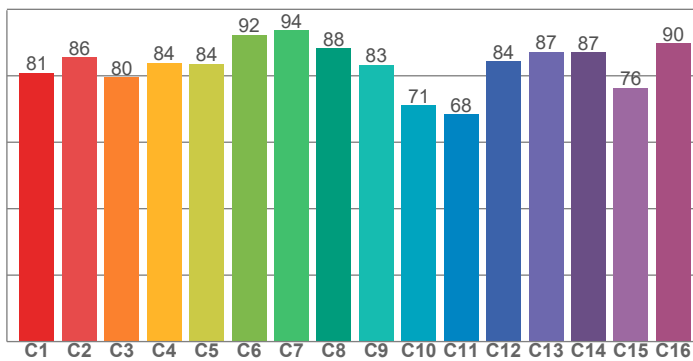
**Spectra**



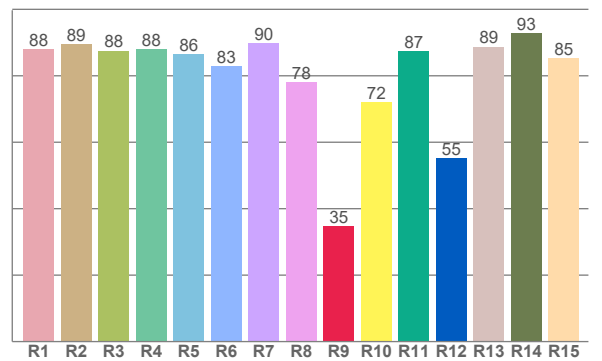
# COLOR DETAILS



**TM30: 82,9**



**CRI: 86,3 (R1-R8)**



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
87,9	89,4	87,6	88,1	86,4	82,8	89,8	78,1	34,7	72,0	87,4	55,1	88,7	92,7	85,3

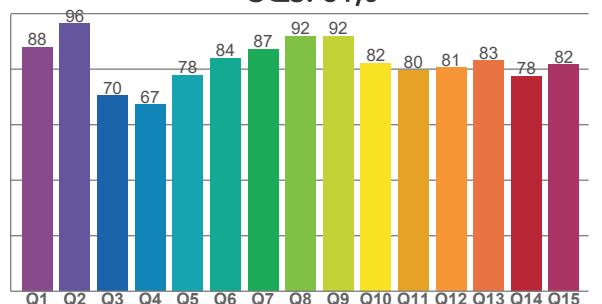
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,9	85,6	79,6	83,8	83,6	92,4	93,7	88,3	83,3	71,2	68,3	84,4	87,2	87,0	76,4	89,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,9	96,5	70,4	67,3	77,8	84,0	87,1	91,9	91,9	82,2	79,6	80,5	83,1	77,6	81,6

**CQS: 81,0**



## 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	$\Delta uv$
5666 K	86,3	34,7	82,9	98,3	81,0	78	0,329	0,332	-0,0062

## TM30 DETAILS

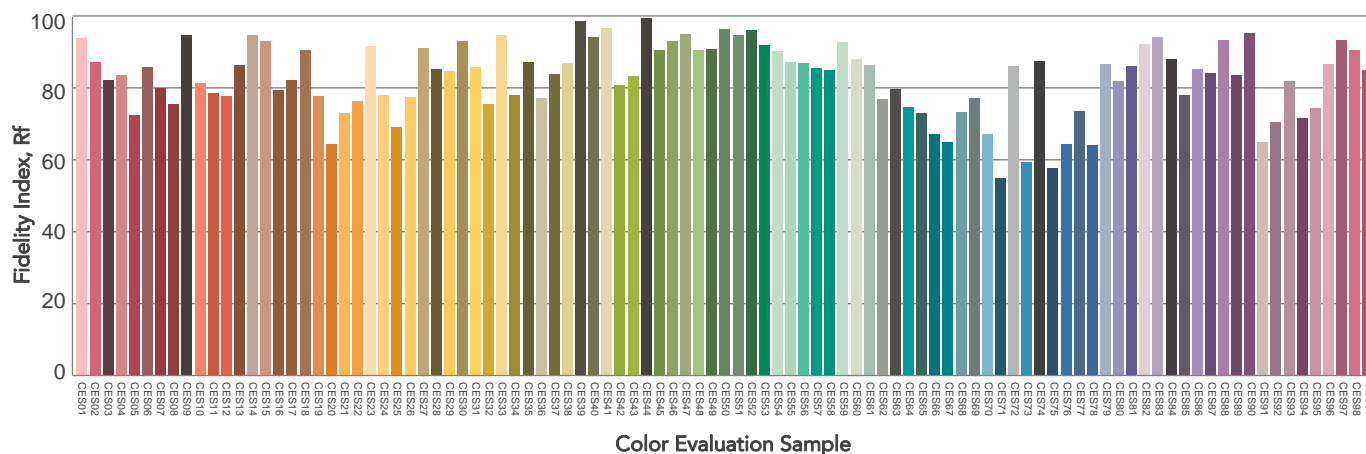
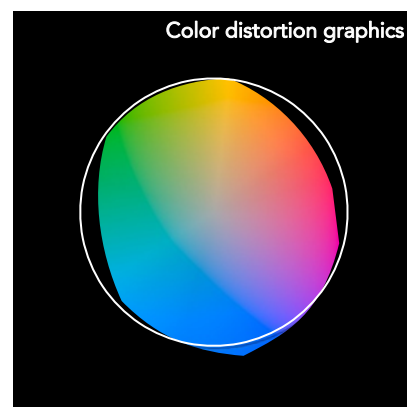
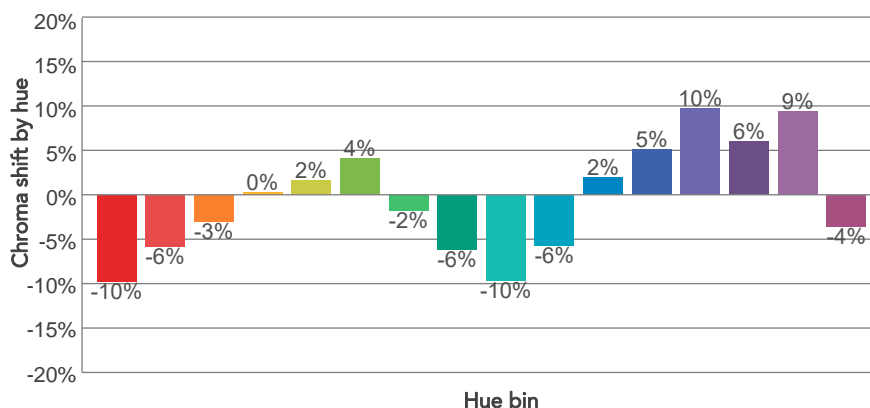
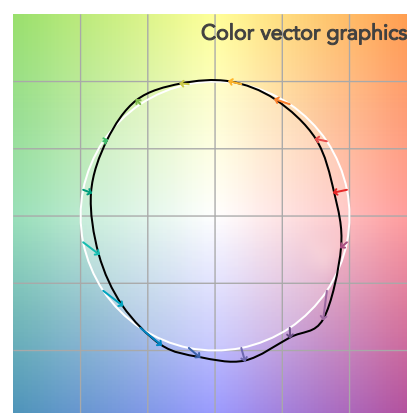
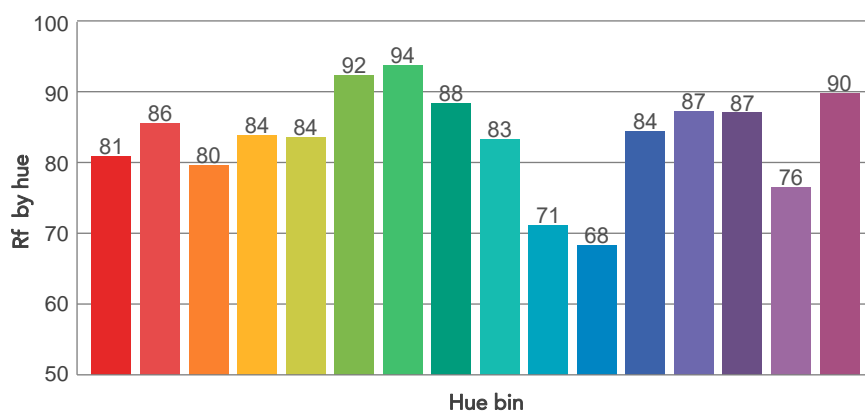
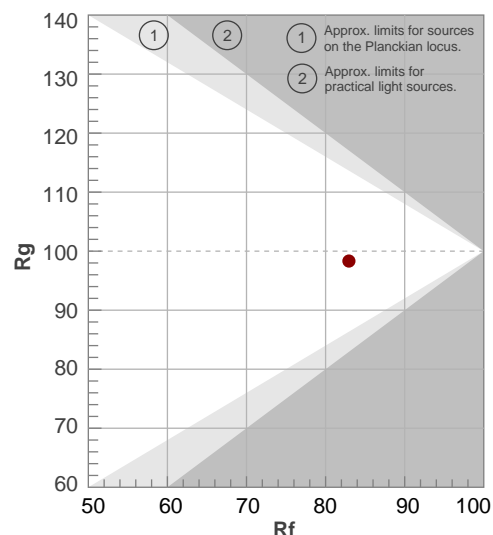
**Rf 82,9**

Fidelity index Rf

**Rg 98,3**

Gammut index

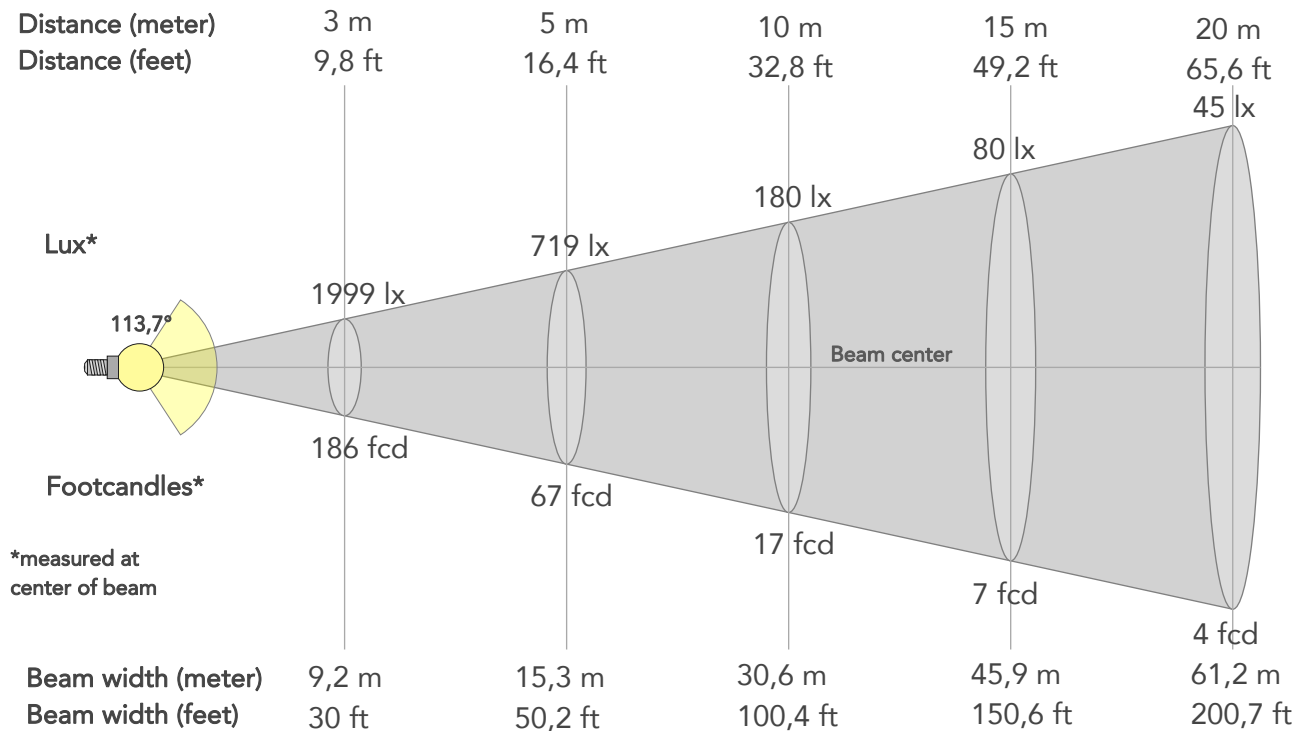
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	81	-10%	0%
2	86	-6%	6%
3	80	-3%	11%
4	84	0%	9%
5	84	2%	6%
6	92	4%	1%
7	94	-2%	-2%
8	88	-6%	1%
9	83	-10%	11%
10	71	-6%	17%
11	68	2%	20%
12	84	5%	9%
13	87	10%	1%
14	87	6%	-4%
15	76	9%	-19%
16	90	-4%	-5%



# BEAM DETAILS



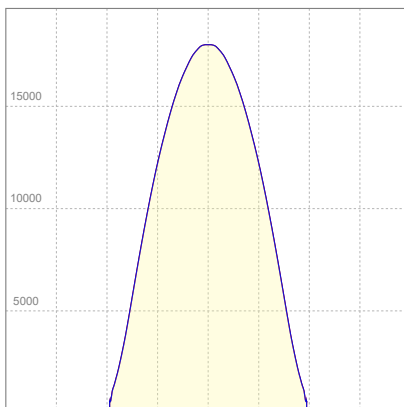
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
113,7°	163°	175,2°	78,0%	52,9%



## 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	17987lx	4497lx	1999lx	1124lx	719lx	320lx	180lx	80lx	45lx	29lx	20lx	11lx	7lx
Footcand.	1671fcd	418fcd	186fcd	104fcd	67fcd	30fcd	17fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	3,1m	6,1m	9,2m	12,2m	15,3m	23m	30,6m	45,9m	61,2m	76,5m	91,8m	122,4m	153m
Beam wid.	10,1ft	20,2ft	30ft	40,1ft	50,2ft	75,3ft	100,4ft	150,6ft	200,7ft	250,9ft	301,1ft	401,5ft	501,9ft

## LINEAR DISTRIBUTION DIAGRAM



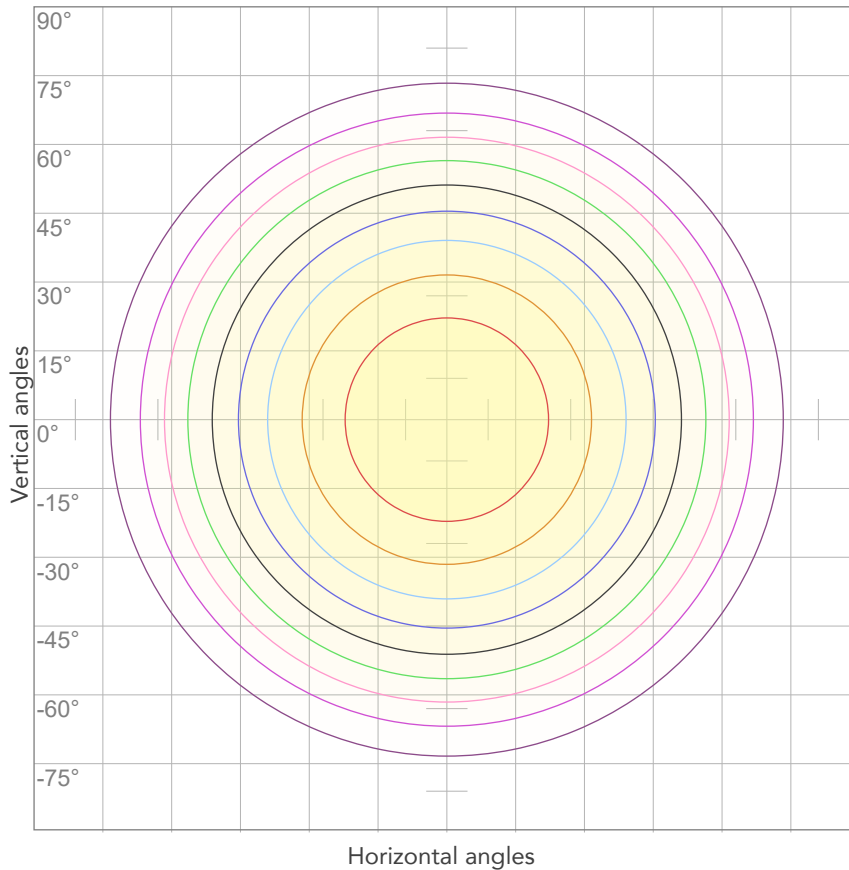
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	2,31A	522W	1,0	101lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



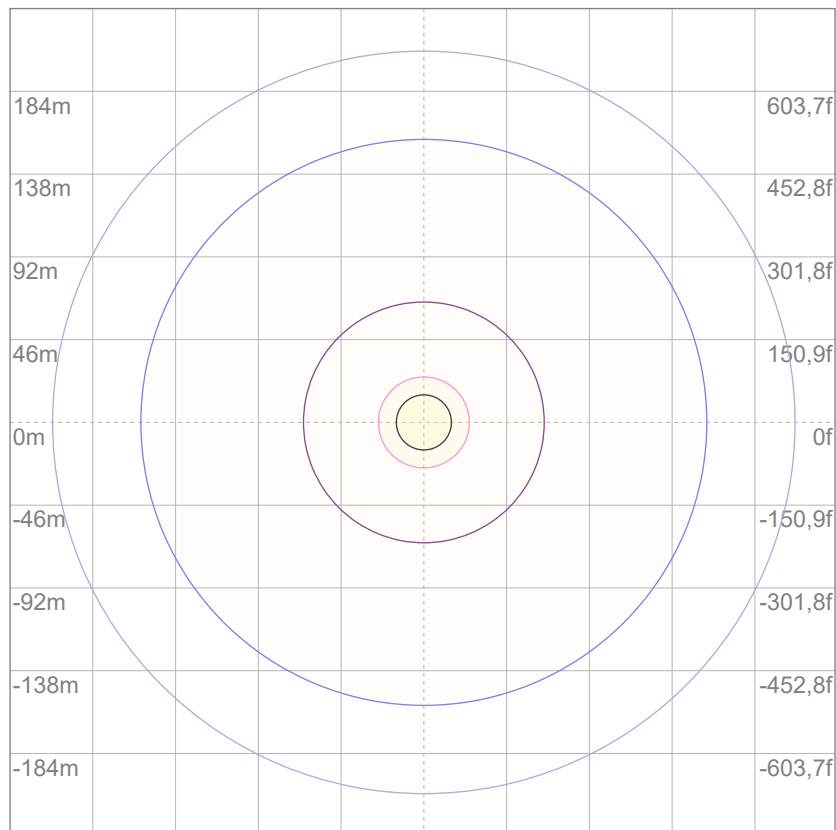
10%	1799 cd
20%	3597 cd
30%	5396 cd
40%	7195 cd
50%	8994 cd
60%	10792 cd
70%	12591 cd
80%	14390 cd

### Conditions:

Number of c-planes: 4

Candela at center: 17987 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: 4

Lux at center: 180 lx

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



Total lumen output:

48345 lm

Peak candela output:

16740 cd

Light quality:

CRI: 96,5

Color temperature:

3237 K

**PRODUCT NAME:**  
ECLPANELIP SOFT 2X1

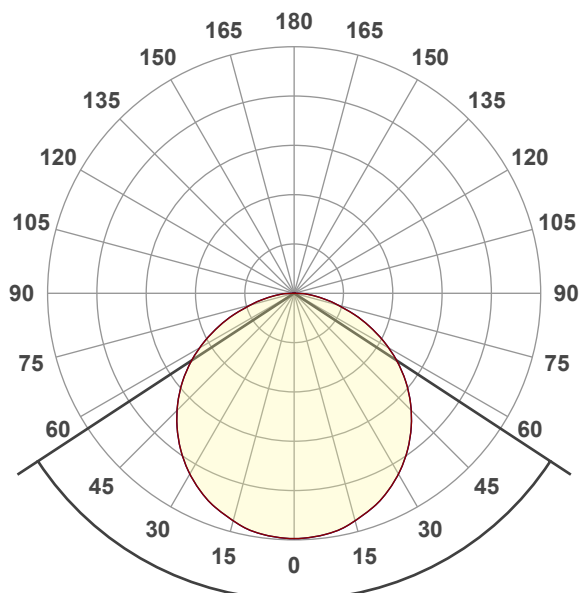
**MEASURAMENT CONDITIONS:**

Beam angle:  
HD Filter

Target:  
3200K - HQ

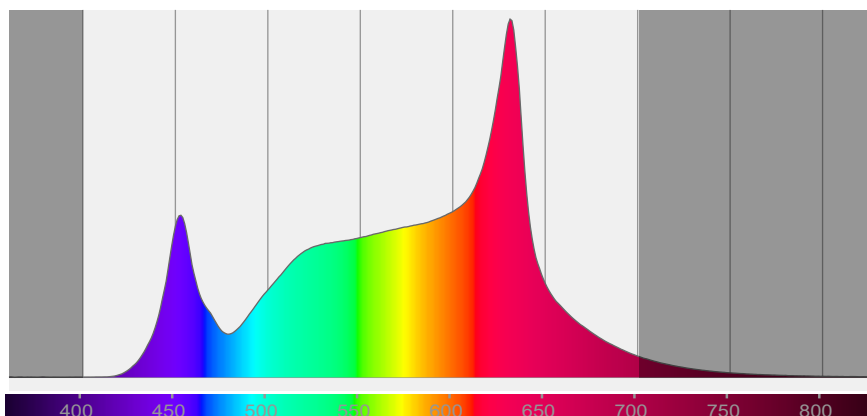
Operator:  
Salvatore Giglio

Date and time:  
10/09/2024 17:29:45

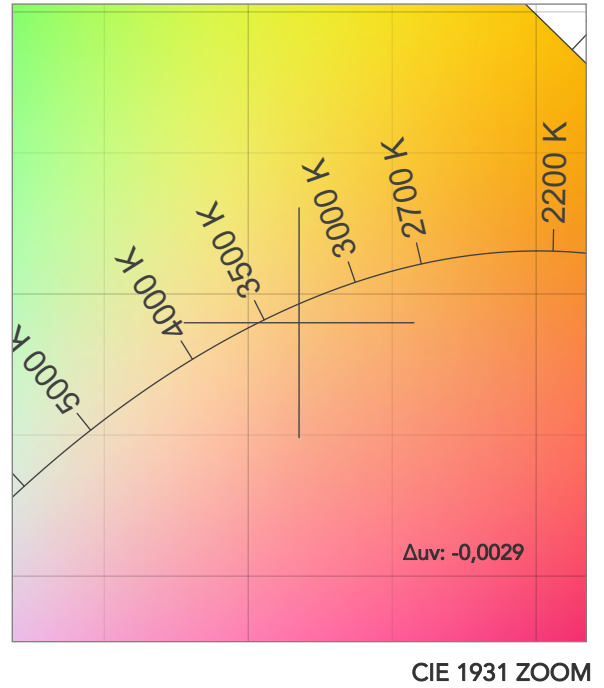
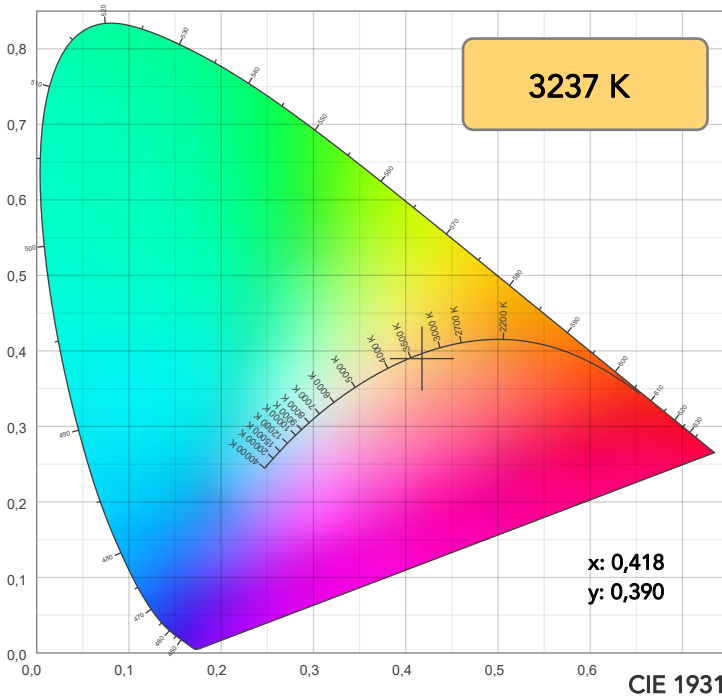


Beam angle 50%: 113,5°  
Field angle 10%: 162,6°  
Cut off angle 2.5%: 176,6°

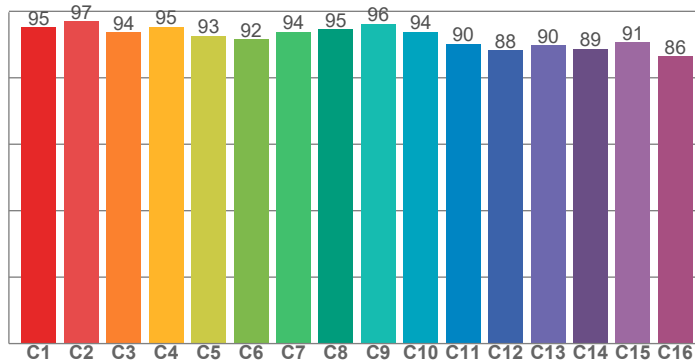
**Spectra**



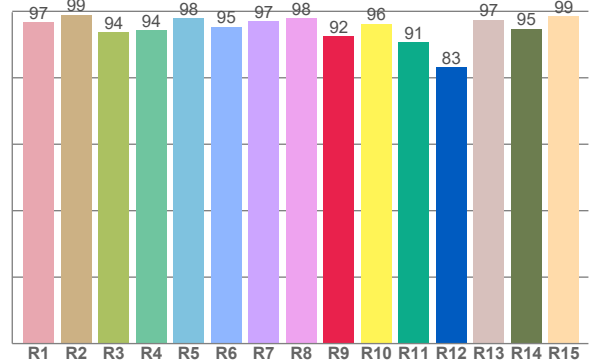
# COLOR DETAILS



TM30: 92,8



CRI: 96,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,6	98,9	93,6	94,4	97,9	95,4	97,1	97,9	92,4	96,2	90,7	83,2	97,5	94,8	98,6

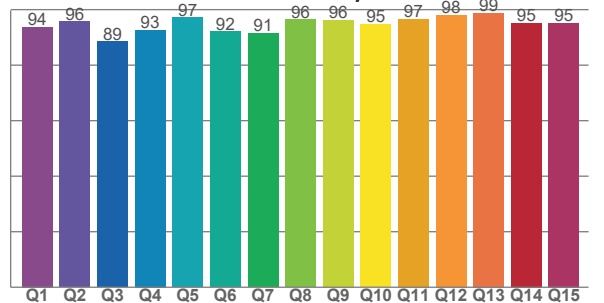
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	96,9	93,7	95,4	92,6	91,6	93,9	94,5	96,2	93,8	90,2	88,3	89,7	88,8	90,7	86,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,8	95,7	88,5	92,6	97,1	92,1	91,5	96,5	96,2	94,7	96,6	98,0	98,7	95,1	95,1

CQS: 94,0



## COLOR PARAMETERS

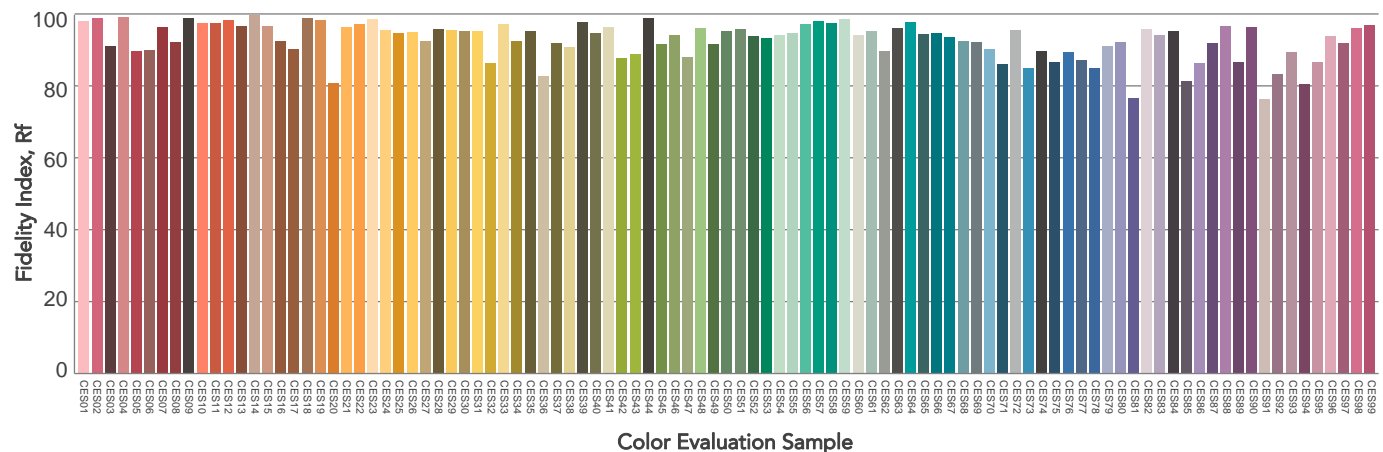
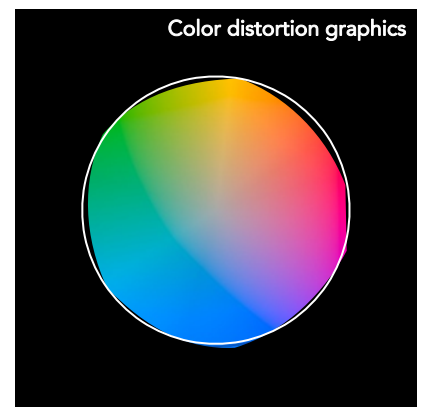
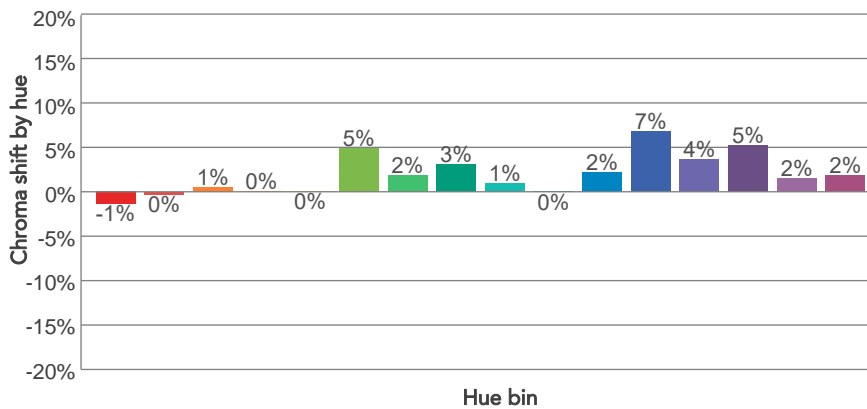
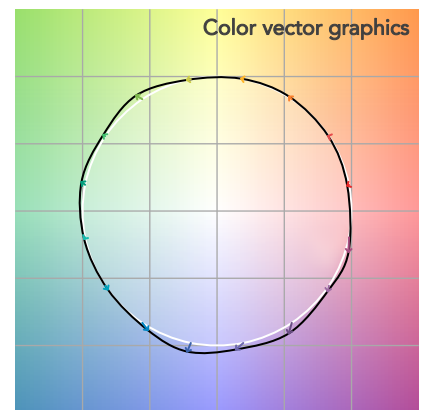
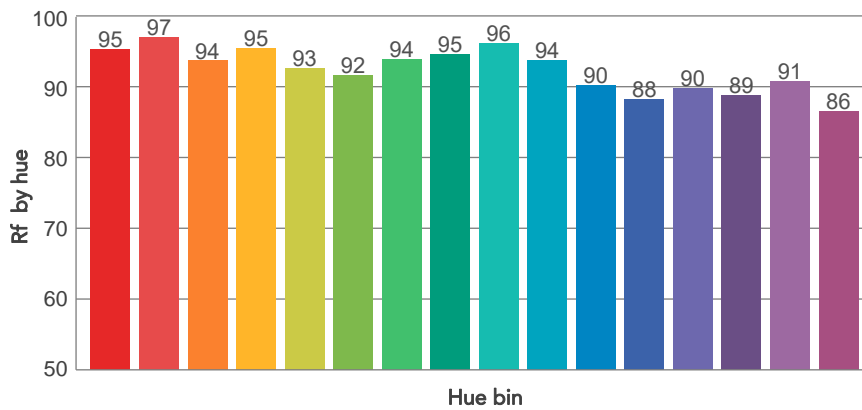
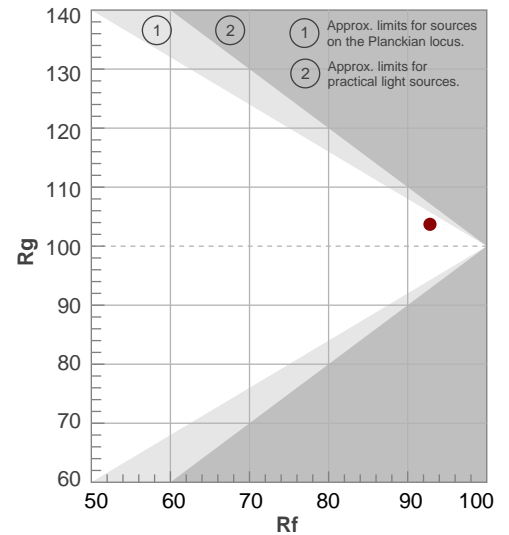
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3237 K	96,5	92,4	92,8	103,7	94,0	89	0,418	0,390	-0,0029

# TM30 DETAILS

**Rf 92,8**  
Fidelity index Rf

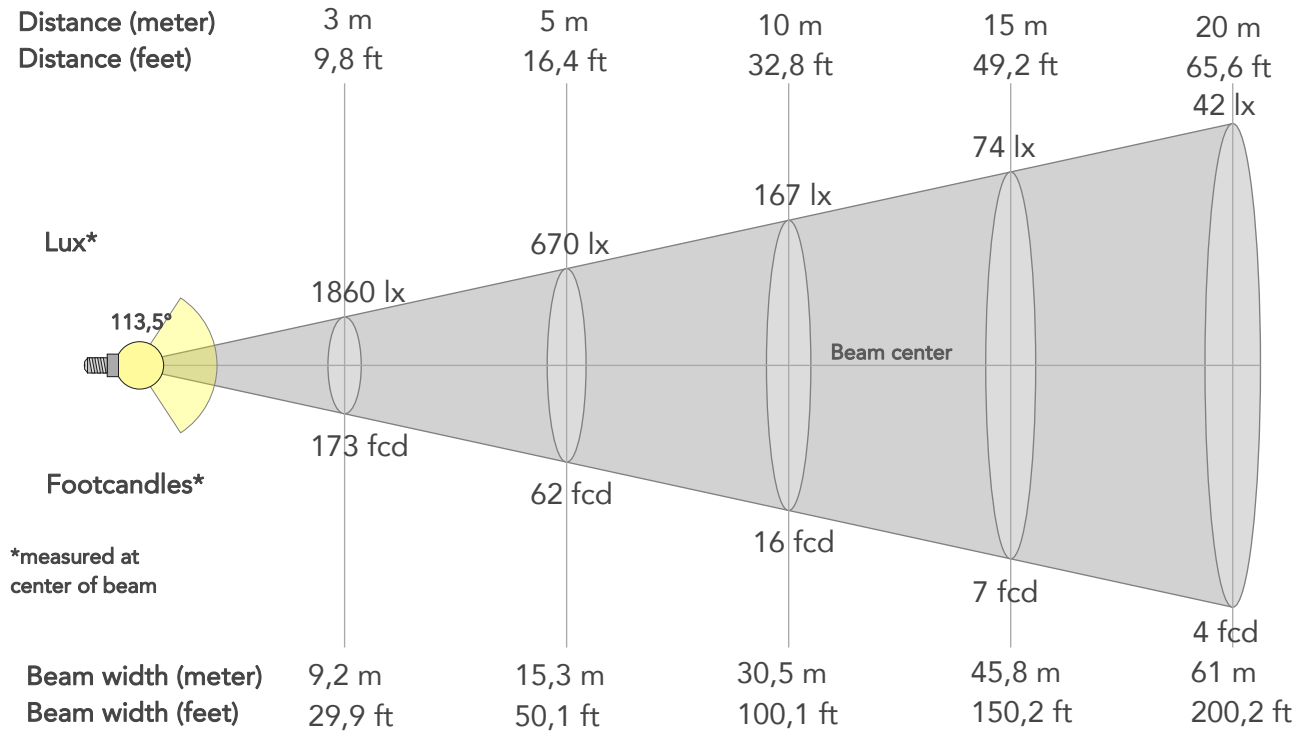
**Rg 103,7**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	0%
2	97	0%	0%
3	94	1%	3%
4	95	0%	2%
5	93	0%	3%
6	92	5%	2%
7	94	2%	0%
8	95	3%	-1%
9	96	1%	1%
10	94	0%	3%
11	90	2%	6%
12	88	7%	-1%
13	90	4%	-6%
14	89	5%	-6%
15	91	2%	-4%
16	86	2%	-11%



# BEAM DETAILS

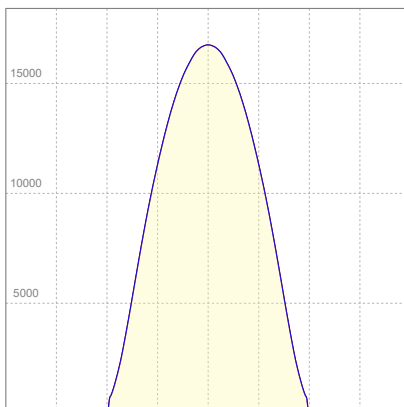
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
113,5°	162,6°	176,6°	78,7%	53,3%



## 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	16740lx	4185lx	1860lx	1046lx	670lx	298lx	167lx	74lx	42lx	27lx	19lx	10lx	7lx
Footcand.	1555fcd	389fcd	173fcd	97fcd	62fcd	28fcd	16fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	3,1m	6,1m	9,2m	12,2m	15,3m	22,9m	30,5m	45,8m	61m	76,3m	91,6m	122,1m	152,6m
Beam wid.	10,1ft	20,1ft	29,9ft	40ft	50,1ft	75,1ft	100,1ft	150,2ft	200,2ft	250,3ft	300,3ft	400,4ft	500,5ft

## LINEAR DISTRIBUTION DIAGRAM

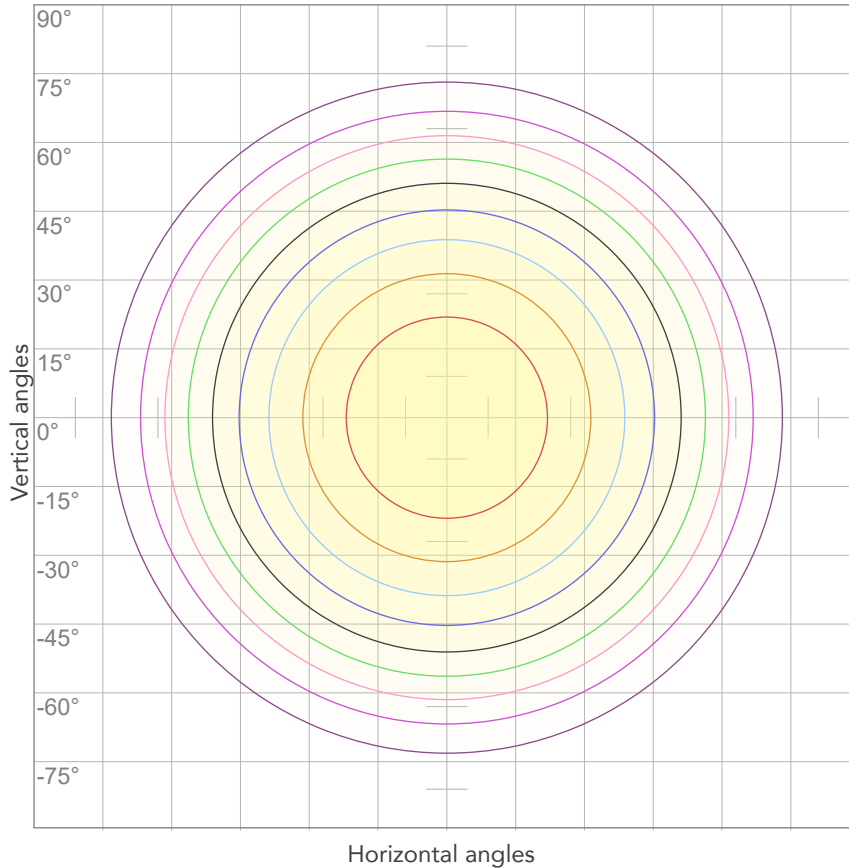


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
223V	2,45A	547W	1,0	88lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



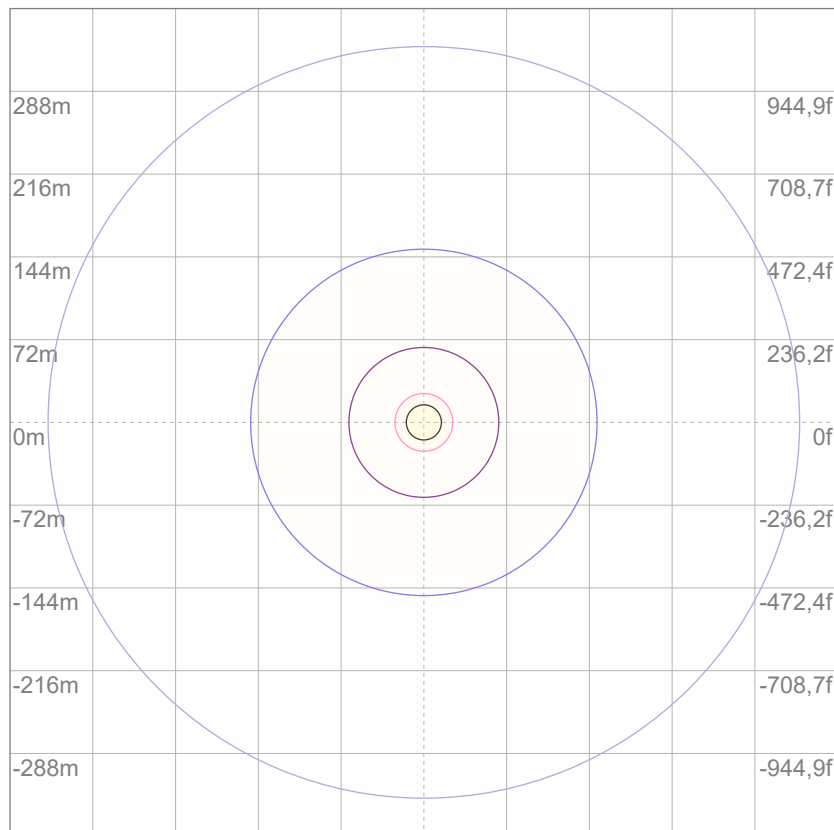
10%	1674 cd
20%	3348 cd
30%	5022 cd
40%	6696 cd
50%	8370 cd
60%	10044 cd
70%	11718 cd
80%	13392 cd

### Conditions:

Number of c-planes: 4

Candela at center: 16740 cd

## ISO LUX DIAGRAM



3%	5,02 lx
5%	8,37 lx
10%	16,7 lx
30%	50,2 lx
50%	83,7 lx

### Conditions:

Number of c-planes: 4

Lux at center: 167 lx

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



Total lumen output:

46028 lm

Peak candela output:

15844 cd

Light quality:

CRI: 96,2

Color temperature:

5626 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

HD Filter

Target:

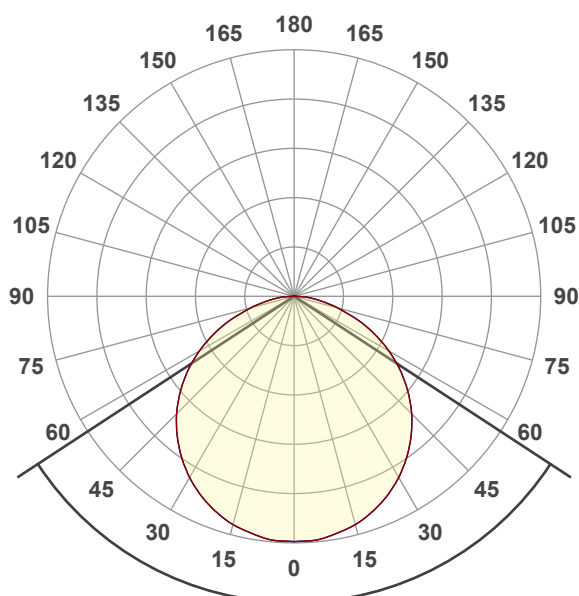
5600K - HQ

Operator:

Salvatore Giglio

Date and time:

10/09/2024 17:23:13

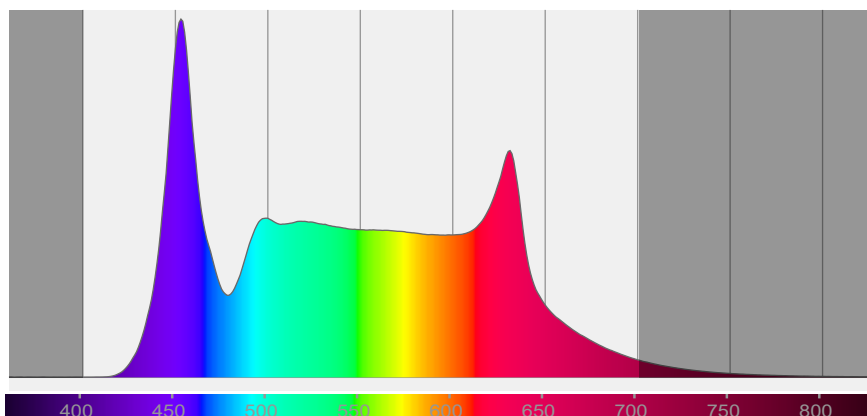


Beam angle 50%: 113,6°

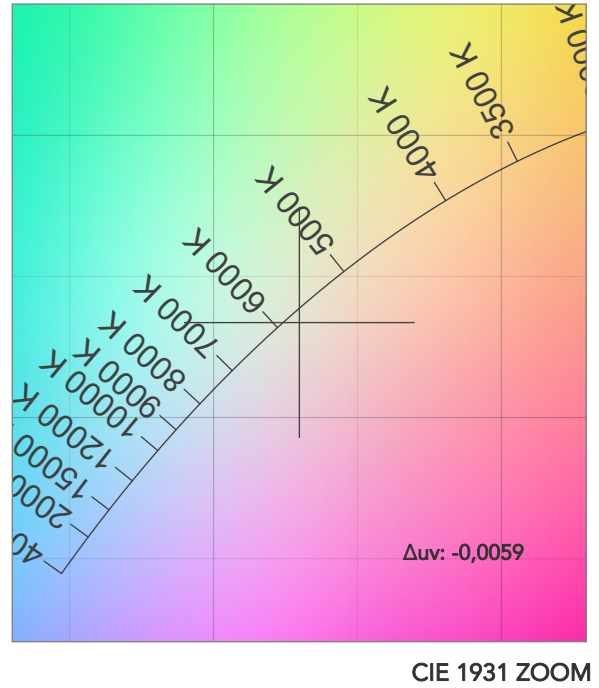
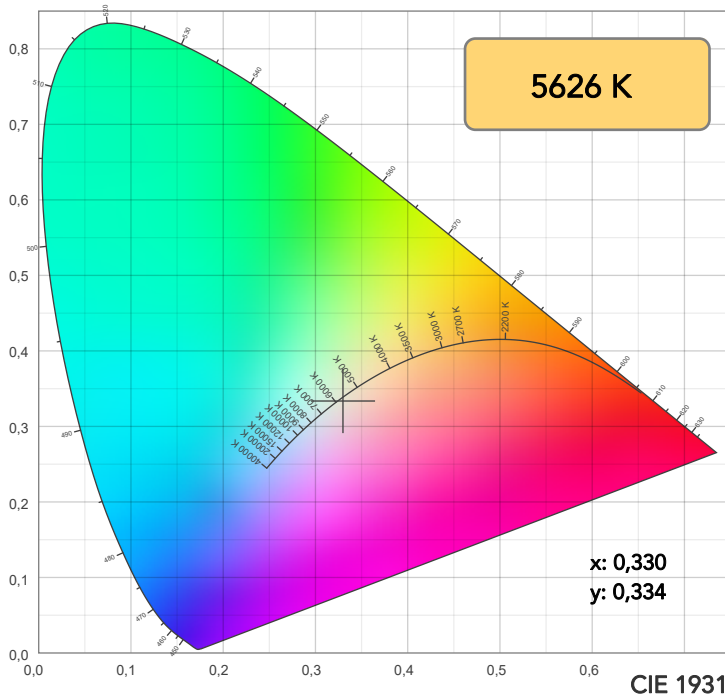
Field angle 10%: 162°

Cut off angle 2.5%: 175°

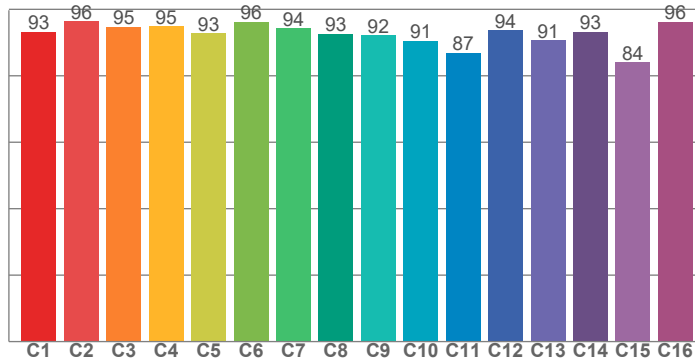
**Spectra**



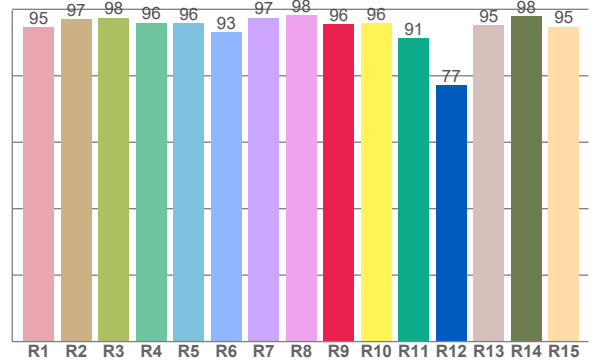
# COLOR DETAILS



TM30: 92,6



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
94,6	97,0	97,5	96,0	95,8	93,1	97,5	98,1	95,6	95,7	91,3	77,1	95,2	97,9	94,7

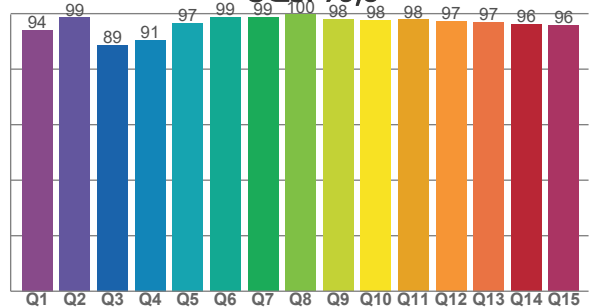
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,3	96,3	94,8	94,9	92,7	96,2	94,3	92,7	92,2	90,6	87,0	93,7	90,7	93,3	84,0	96,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,1	98,5	88,7	90,6	96,7	98,7	98,7	99,6	97,9	97,7	97,9	97,4	96,9	96,1	95,8

CQS: 95,3



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
5626 K	96,2	95,6	92,6	101,9	95,3	95	0,330	0,334	-0,0059



## TM30 DETAILS

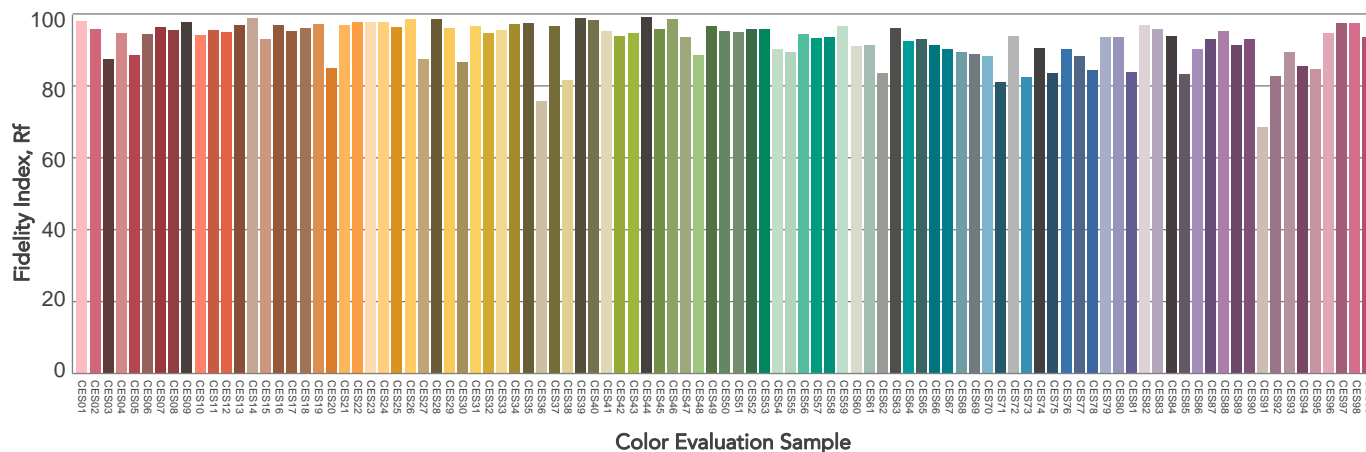
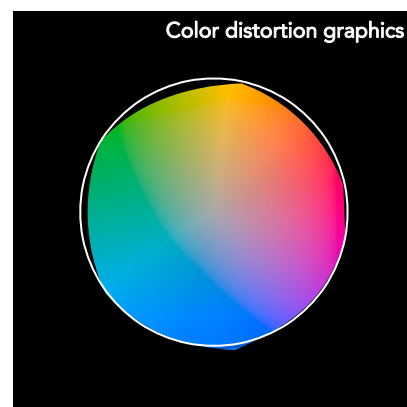
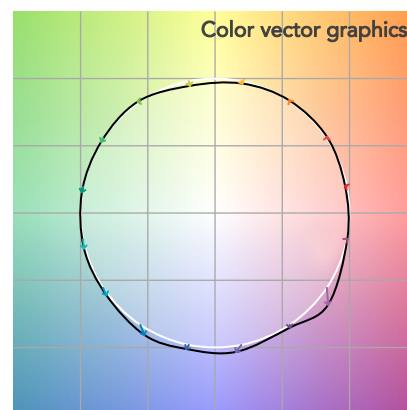
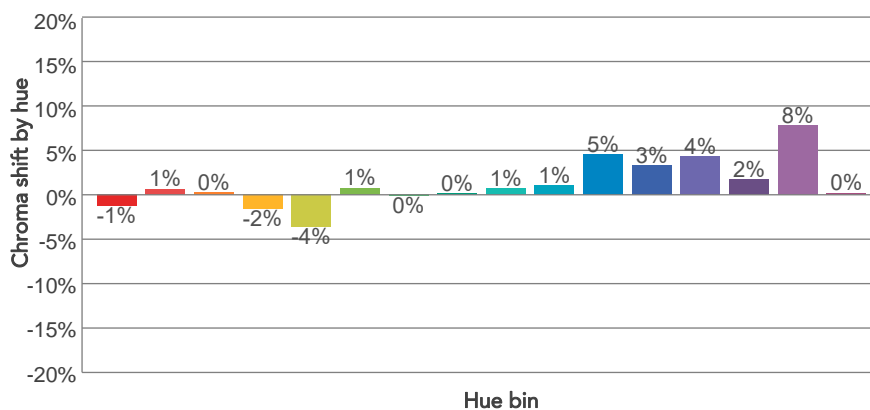
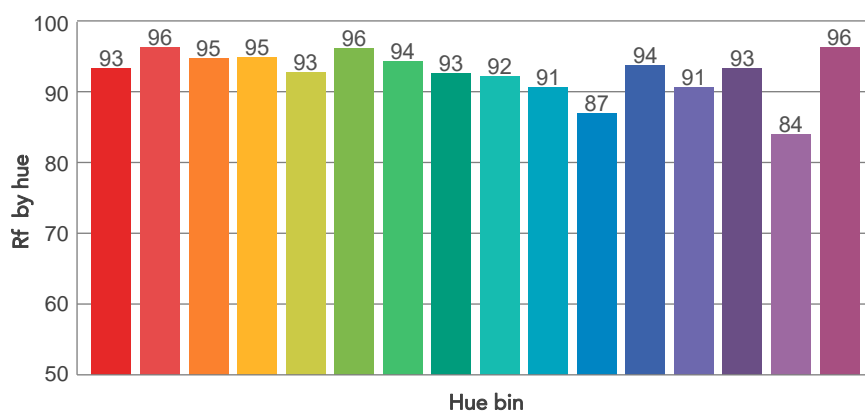
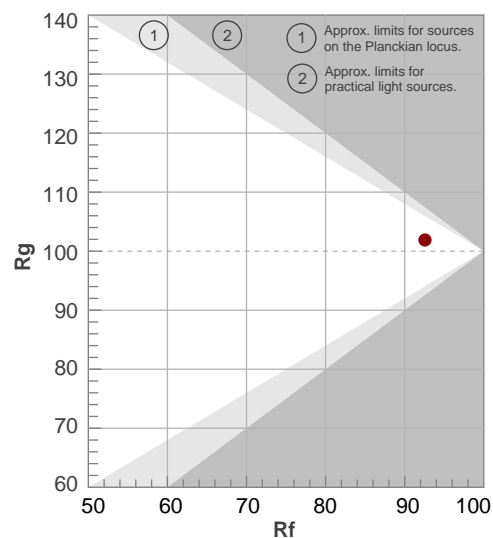
Rf 92,6

Fidelity index  $R_f$

Rg 101,9

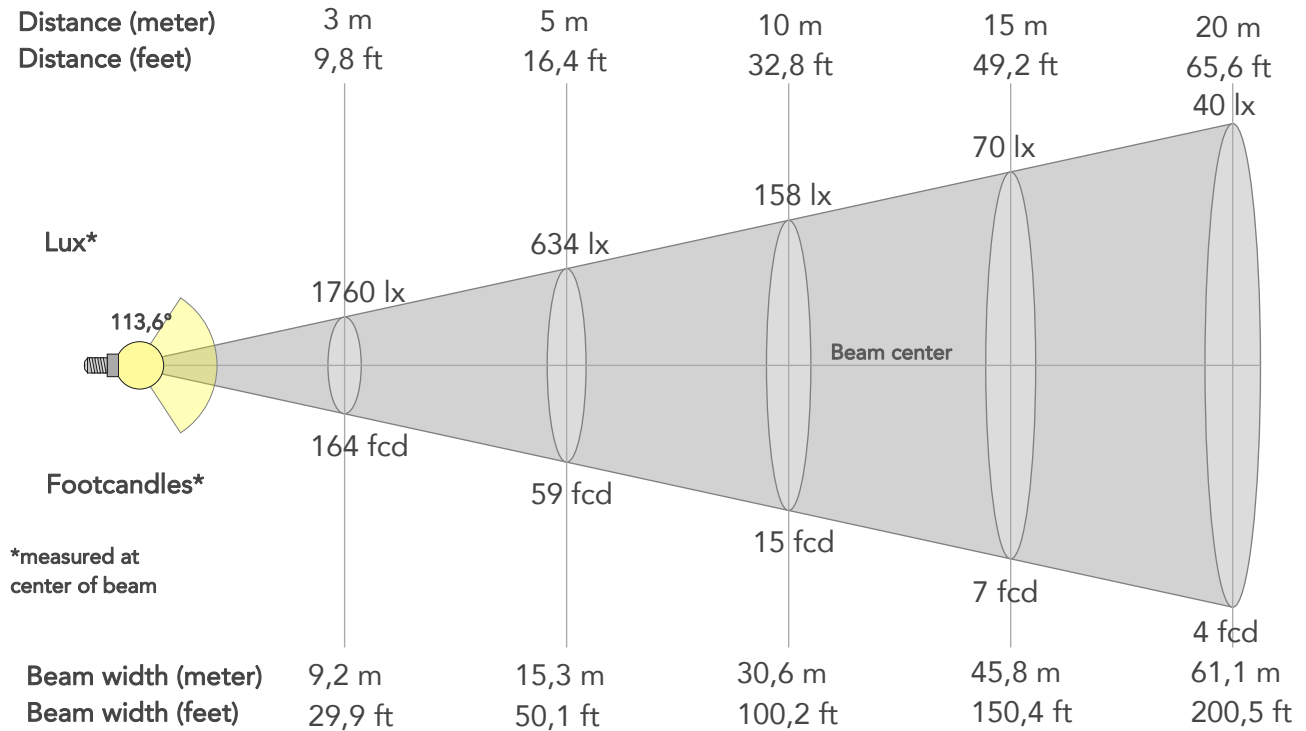
## Gammut index

		Graphic shifts (%)	
Hue Bin	$R_f$	Chroma	Hue
1	93	-1%	1%
2	96	1%	1%
3	95	0%	1%
4	95	-2%	-1%
5	93	-4%	0%
6	96	1%	2%
7	94	0%	3%
8	93	0%	4%
9	92	1%	7%
10	91	1%	6%
11	87	5%	7%
12	94	3%	-2%
13	91	4%	-5%
14	93	2%	-1%
15	84	8%	-10%
16	96	0%	0%



# BEAM DETAILS

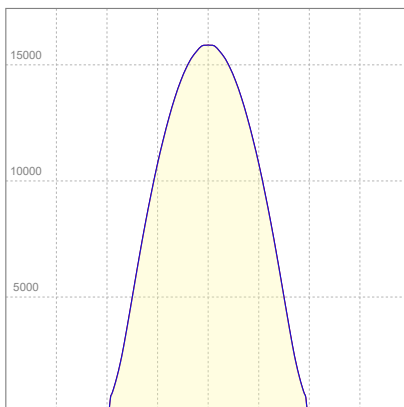
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
113,6°	162°	175°	78,3%	53,1%



## 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	15844lx	3961lx	1760lx	990lx	634lx	282lx	158lx	70lx	40lx	25lx	18lx	10lx	6lx
Footcand.	1472fcd	368fcd	164fcd	92fcd	59fcd	26fcd	15fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	3,1m	6,1m	9,2m	12,2m	15,3m	22,9m	30,6m	45,8m	61,1m	76,4m	91,7m	122,2m	152,8m
Beam wid.	10,1ft	20,2ft	29,9ft	40ft	50,1ft	75,2ft	100,2ft	150,4ft	200,5ft	250,6ft	300,7ft	400,9ft	501,2ft

## LINEAR DISTRIBUTION DIAGRAM

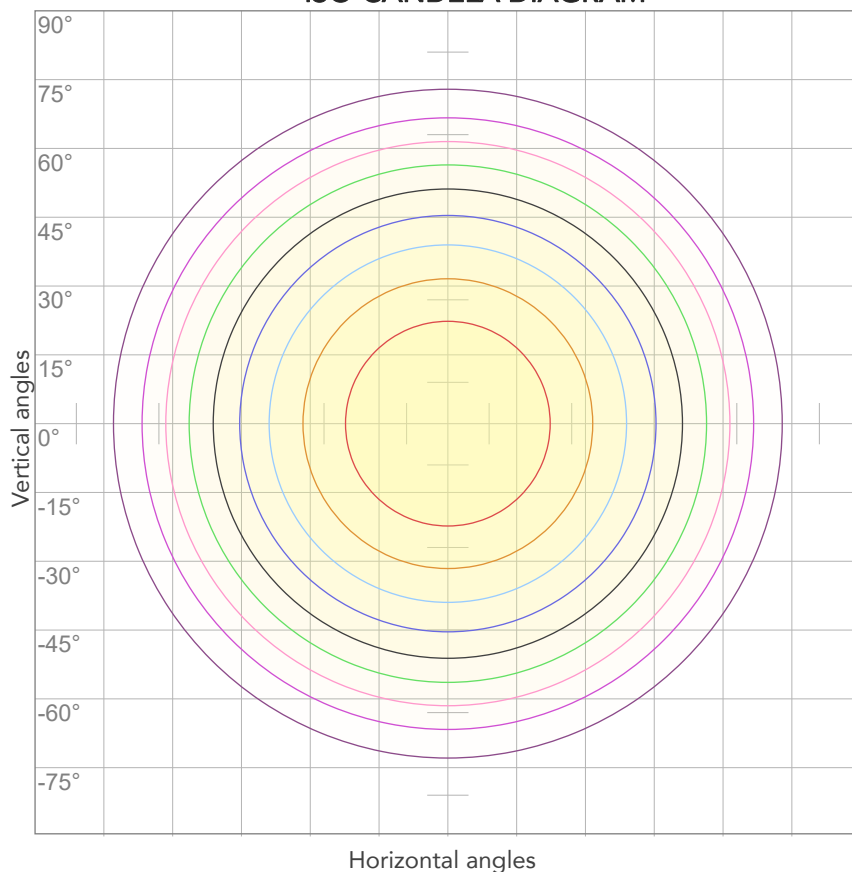


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
223V	2,47A	554W	1,0	83lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



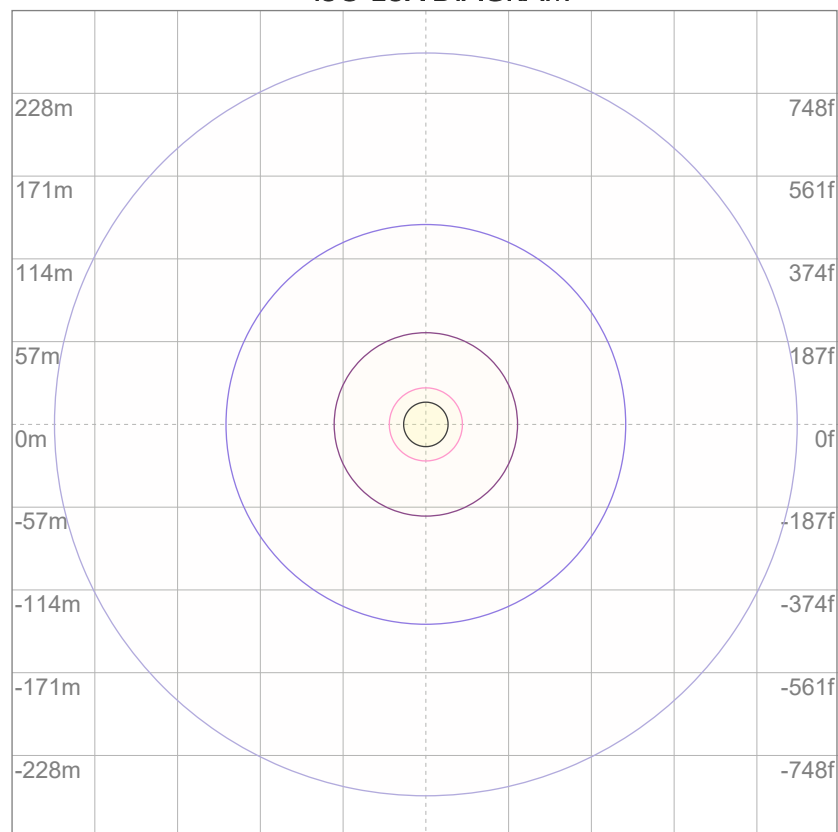
10%	1584 cd
20%	3169 cd
30%	4753 cd
40%	6337 cd
50%	7922 cd
60%	9506 cd
70%	11091 cd
80%	12675 cd

### Conditions:

Number of c-planes: 4

Candela at center: 15844 cd

## ISO LUX DIAGRAM



3%	4,75 lx
5%	7,92 lx
10%	15,8 lx
30%	47,5 lx
50%	79,2 lx

### Conditions:

Number of c-planes: 4

Lux at center: 158 lx

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



Total lumen output:

63548 lm

Peak candela output:

25147 cd

Light quality:

CRI: 93,2

Color temperature:

3255 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

LD Filter

Target:

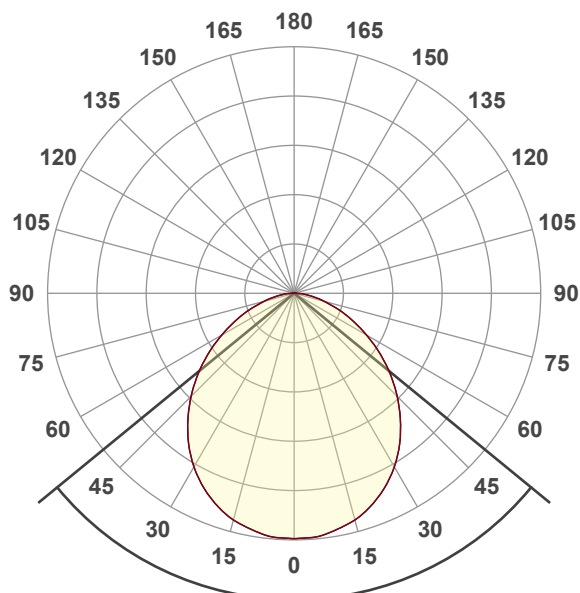
3200K - HB

Operator:

Salvatore Giglio

Date and time:

10/09/2024 16:58:50

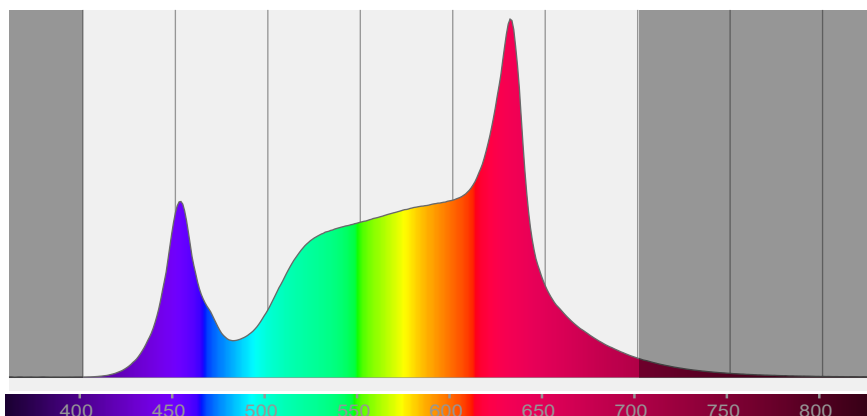


Beam angle 50%: 101,4°

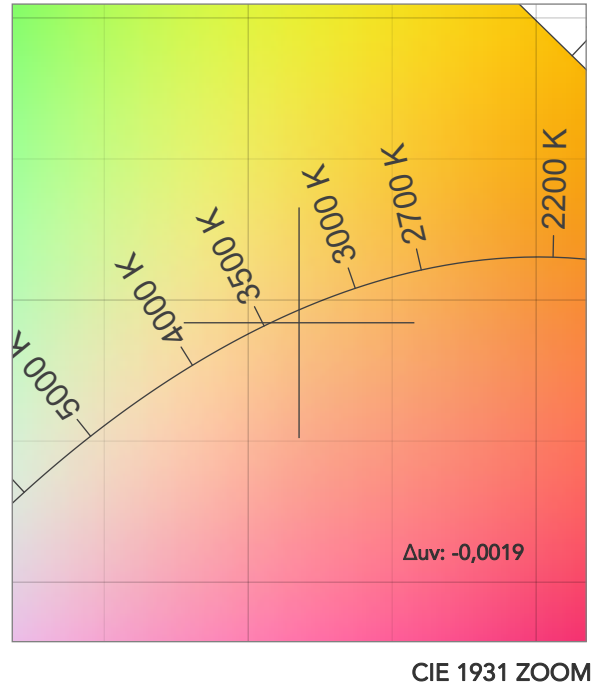
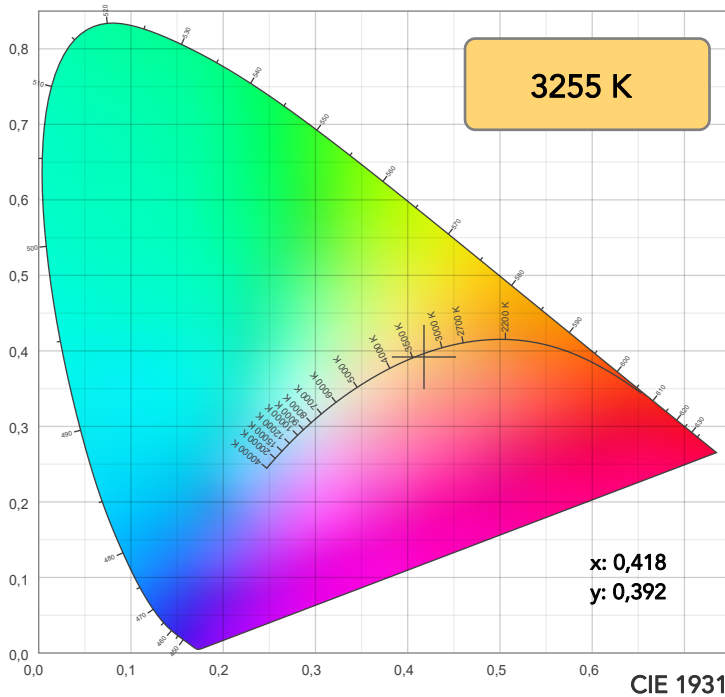
Field angle 10%: 155,2°

Cut off angle 2.5%: 174,7°

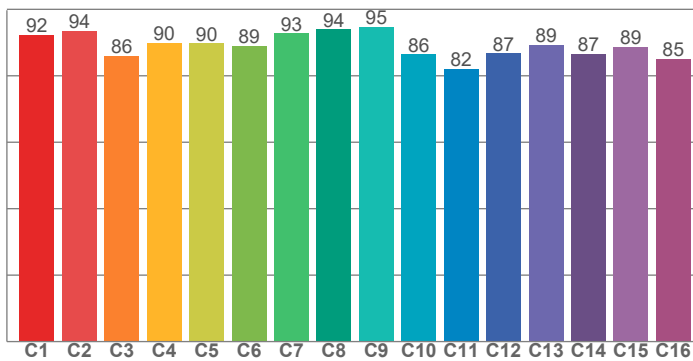
**Spectra**



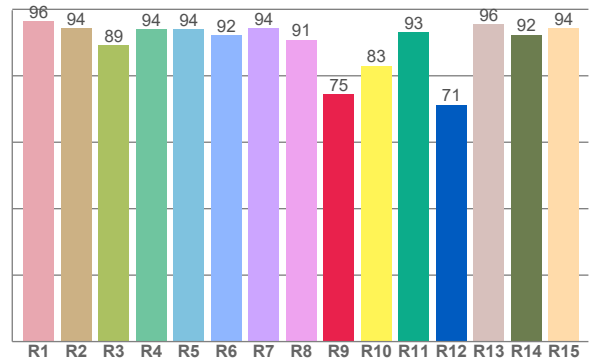
# COLOR DETAILS



TM30: 89,2



CRI: 93,2 (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
96,4	94,4	89,3	93,9	94,1	92,1	94,4	90,8	74,5	83,1	93,1	71,3	95,6	92,3	94,3

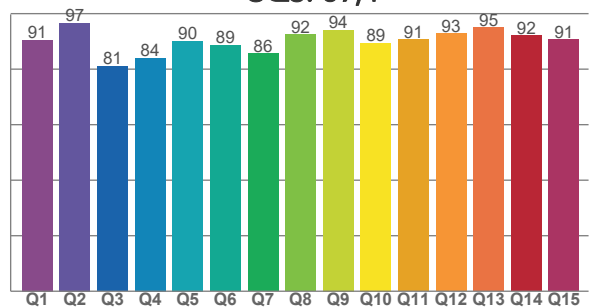
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,3	93,5	86,0	89,9	89,7	89,0	92,7	94,0	94,7	86,4	82,0	86,8	89,3	86,6	88,6	85,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,6	96,6	81,0	84,0	90,1	88,6	85,7	92,4	94,1	89,5	90,6	92,9	95,0	92,1	90,6

CQS: 89,4



## COLOR PARAMETERS

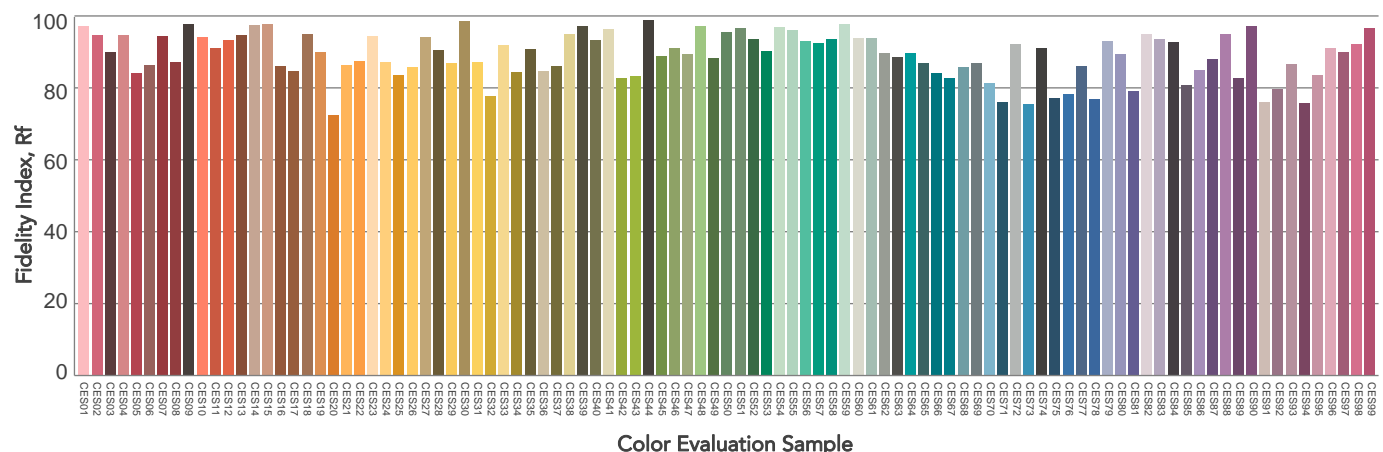
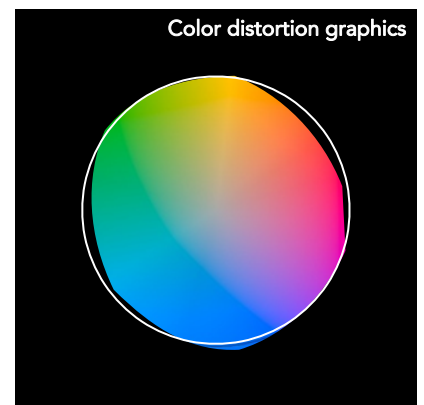
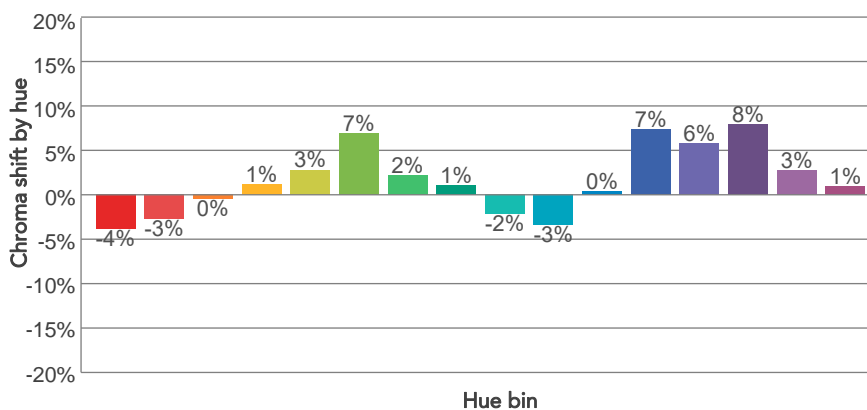
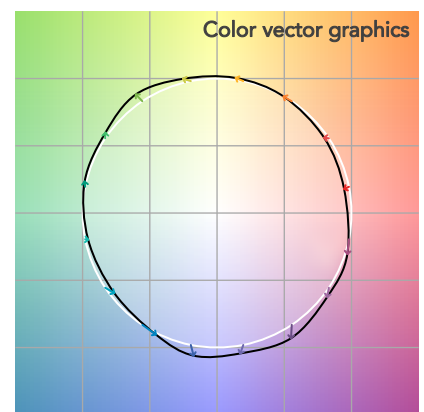
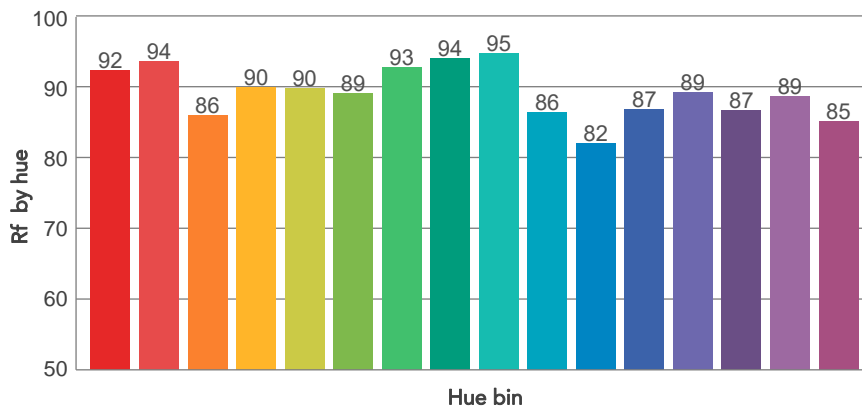
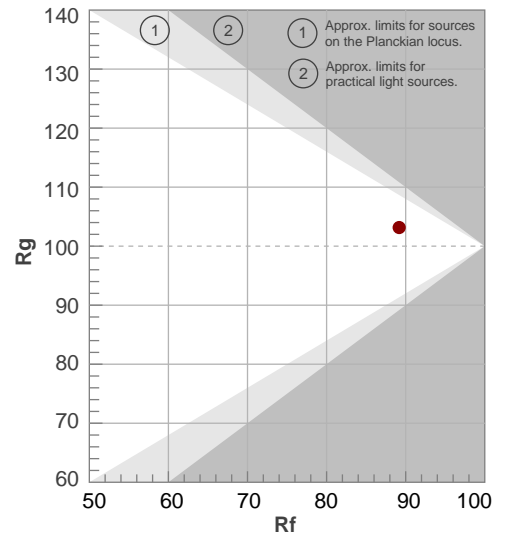
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
3255 K	93,2	74,5	89,2	103,2	89,4	83	0,418	0,392	-0,0019

# TM30 DETAILS

**Rf 89,2**  
Fidelity index Rf

**Rg 103,2**  
Gammut index

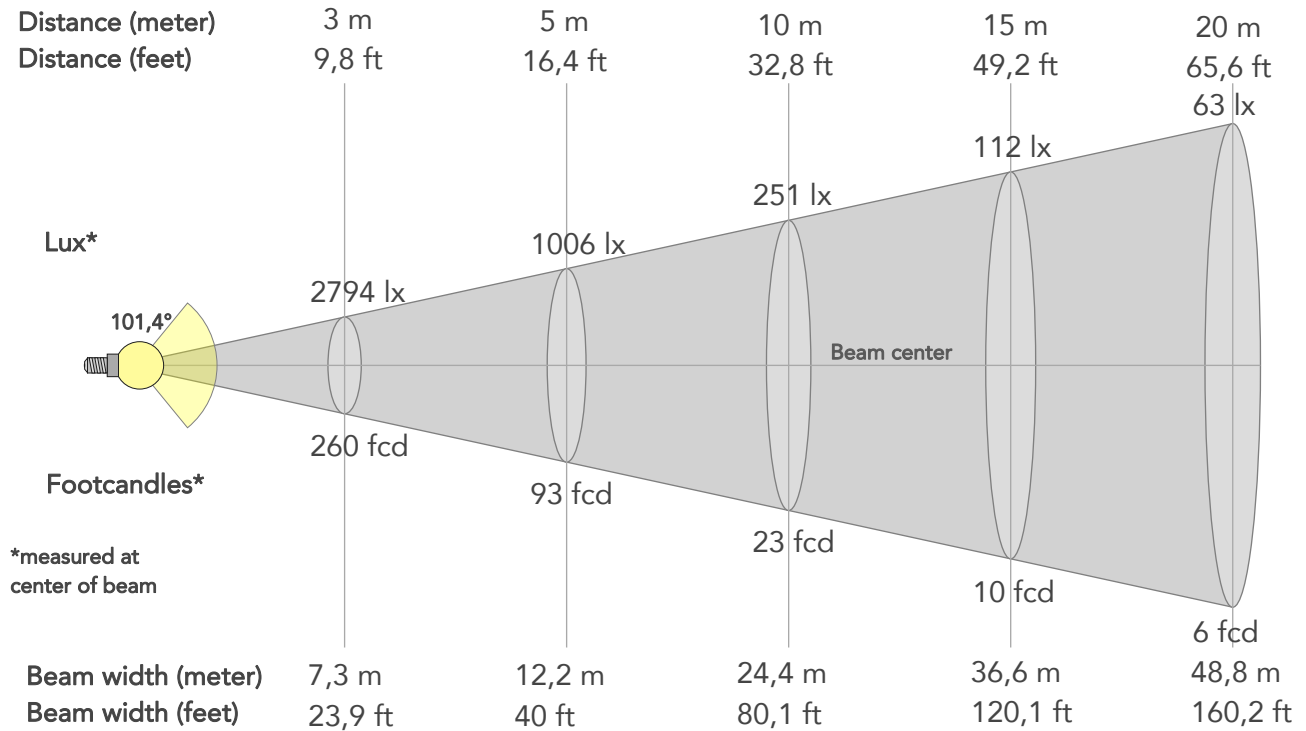
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	94	-3%	2%
3	86	0%	7%
4	90	1%	6%
5	90	3%	5%
6	89	7%	1%
7	93	2%	-4%
8	94	1%	-4%
9	95	-2%	1%
10	86	-3%	7%
11	82	0%	12%
12	87	7%	4%
13	89	6%	-3%
14	87	8%	-6%
15	89	3%	-6%
16	85	1%	-11%



# BEAM DETAILS



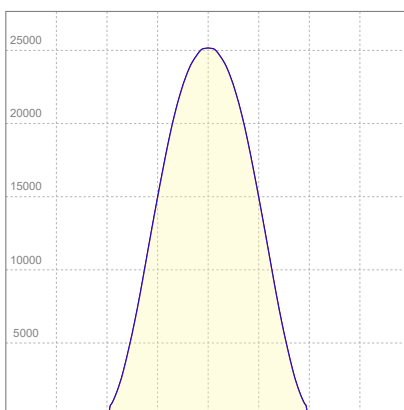
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
101,4°	155,2°	174,7°	82,0%	58,1%



## 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	25147lx	6287lx	2794lx	1572lx	1006lx	447lx	251lx	112lx	63lx	40lx	28lx	16lx	10lx
Footcand.	2336fcd	584fcd	260fcd	146fcd	93fcd	42fcd	23fcd	10fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	2,4m	4,9m	7,3m	9,8m	12,2m	18,3m	24,4m	36,6m	48,8m	61m	73,3m	97,7m	122,1m
Beam wid.	8,1ft	16,1ft	23,9ft	32ft	40ft	60,1ft	80,1ft	120,1ft	160,2ft	200,2ft	240,3ft	320,4ft	400,5ft

## LINEAR DISTRIBUTION DIAGRAM

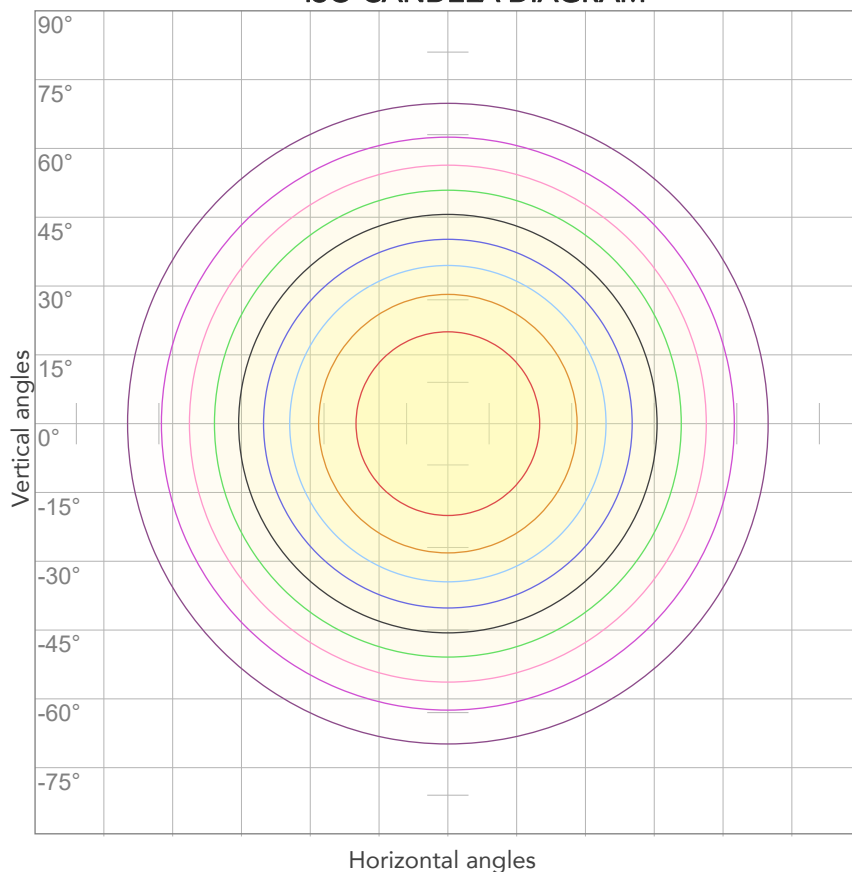


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	2,45A	548W	1,0	116lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



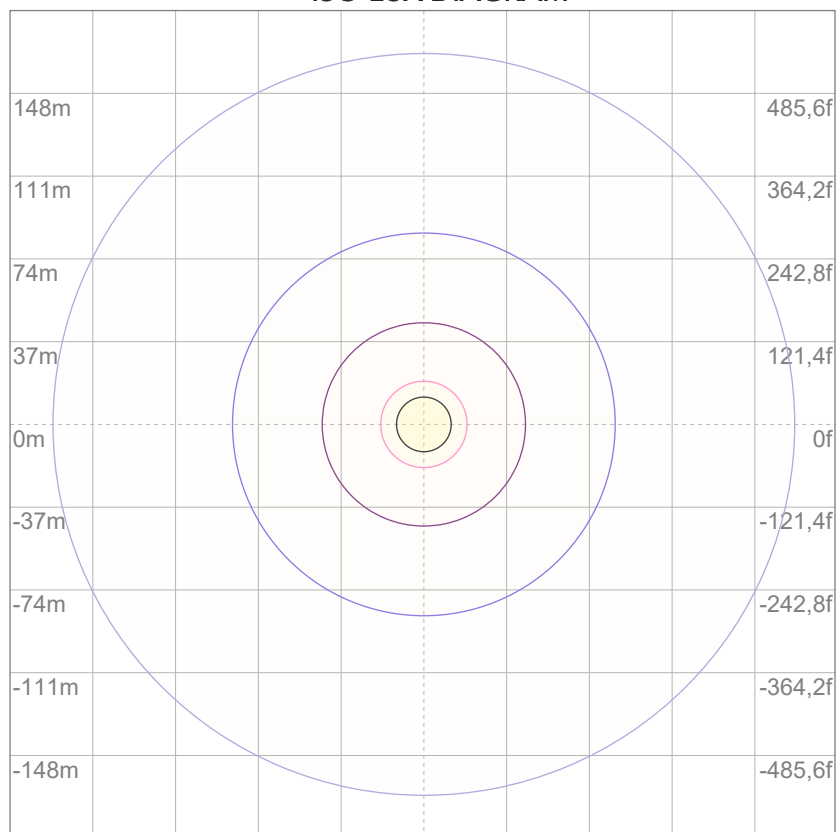
10%	2515 cd
20%	5029 cd
30%	7544 cd
40%	10059 cd
50%	12574 cd
60%	15088 cd
70%	17603 cd
80%	20118 cd

### Conditions:

Number of c-planes: 4

Candela at center: 25147 cd

## ISO LUX DIAGRAM



3%	7,54 lx
5%	12,6 lx
10%	25,1 lx
30%	75,4 lx
50%	126 lx

### Conditions:

Number of c-planes: 4

Lux at center: 251 lx

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





Total lumen output:

64639 lm

Peak candela output:

25644 cd

Light quality:

CRI: 83,5

Color temperature:

5626 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

LD Filter

Target:

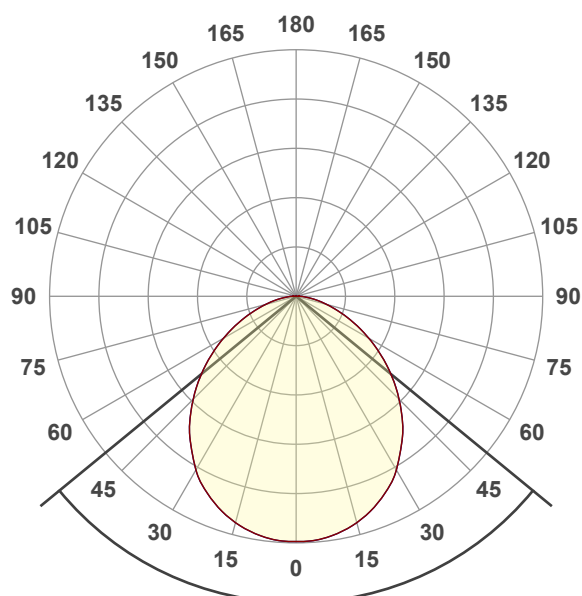
5600K - HB

Operator:

Salvatore Giglio

Date and time:

10/09/2024 16:56:52

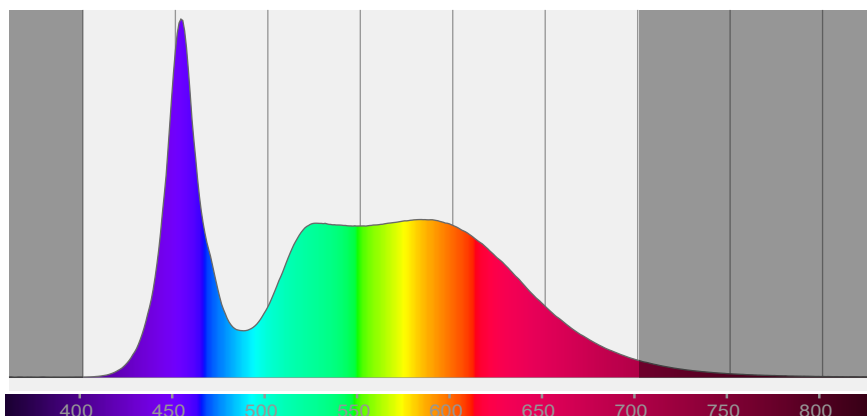


Beam angle 50%: 101,2°

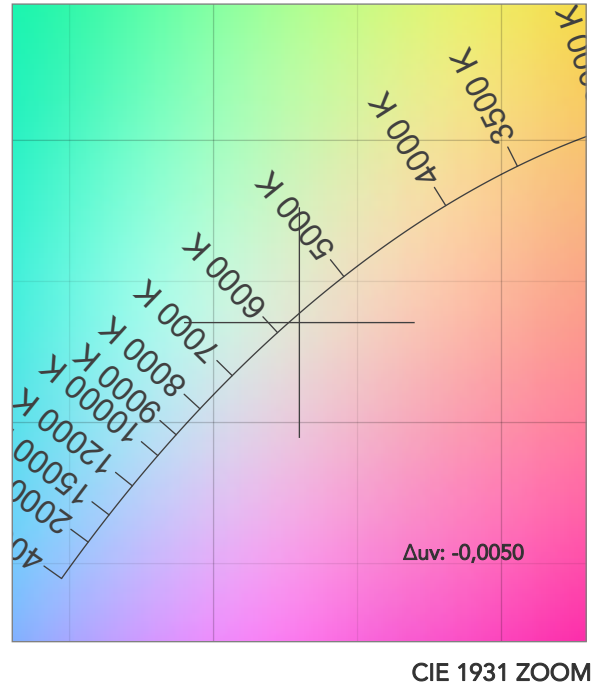
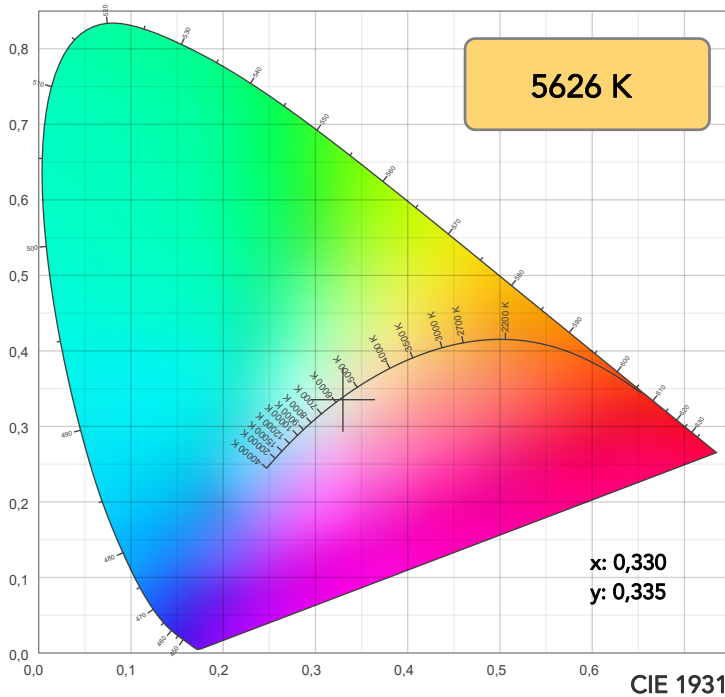
Field angle 10%: 155,8°

Cut off angle 2.5%: 177°

**Spectra**

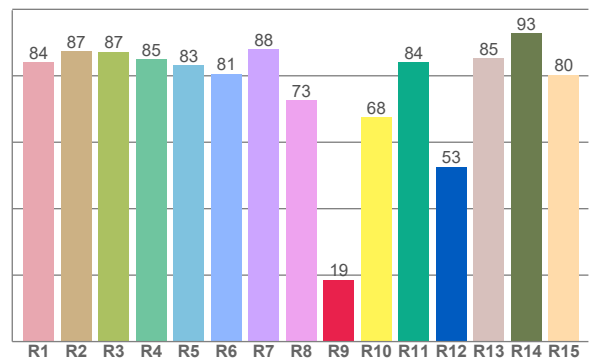
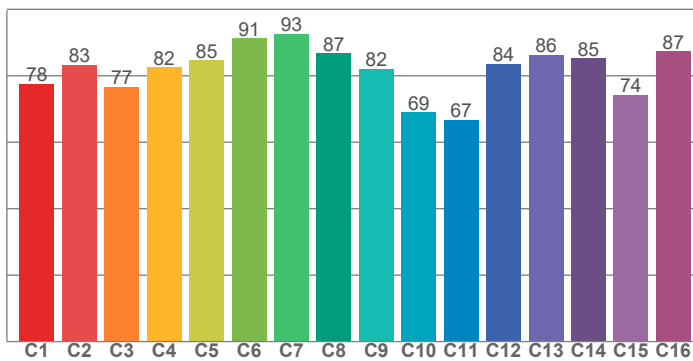


# COLOR DETAILS



TM30: 81,3

CRI: 83,5 (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
84,2	87,4	87,3	84,9	83,2	80,6	88,0	72,7	18,6	67,5	84,0	52,6	85,3	92,7	80,3

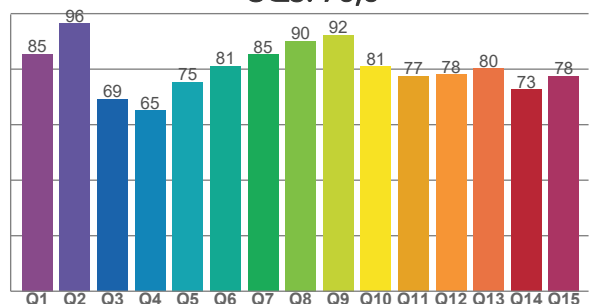
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77,5	83,2	76,7	82,5	84,6	91,3	92,5	86,7	82,1	69,0	66,8	83,5	86,4	85,2	74,2	87,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,4	96,4	69,1	65,1	75,4	81,2	85,3	90,1	92,3	80,9	77,5	78,0	80,3	72,6	77,6

CQS: 78,8



## COLOR PARAMETERS

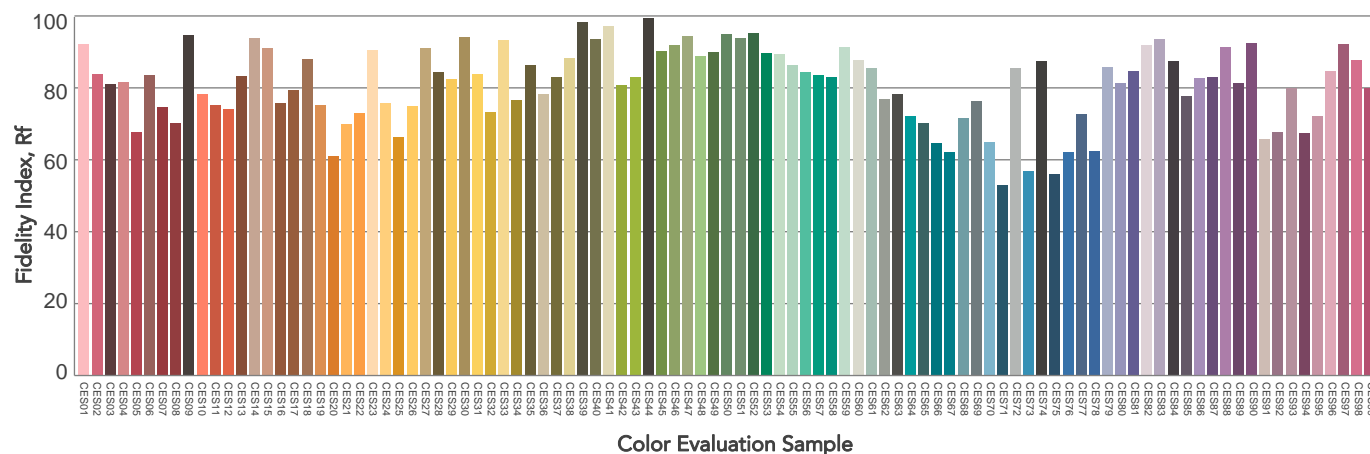
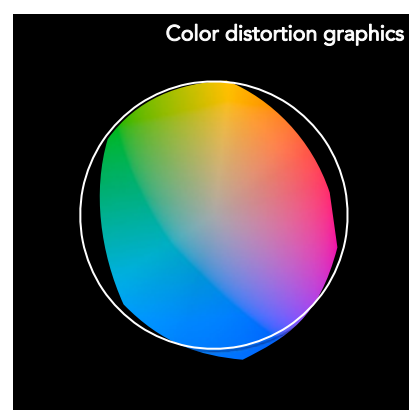
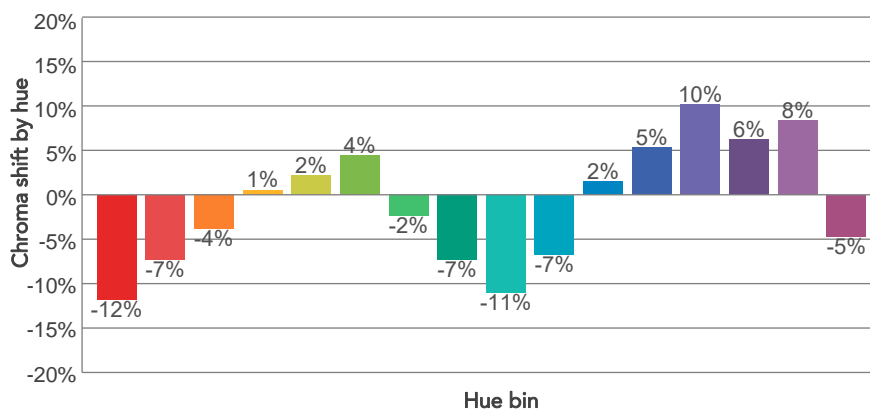
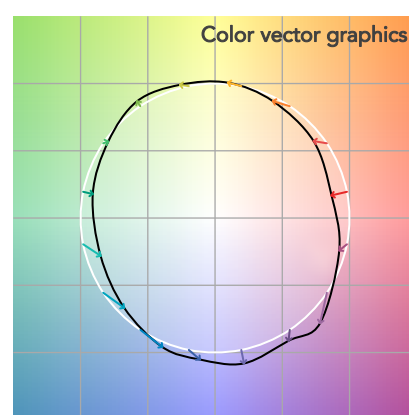
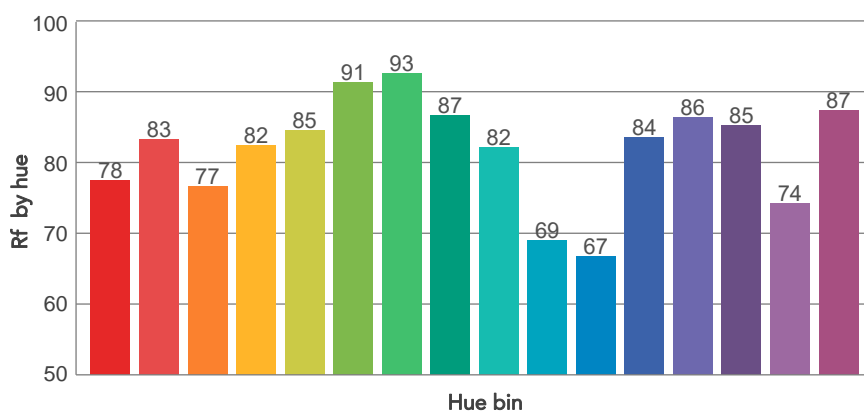
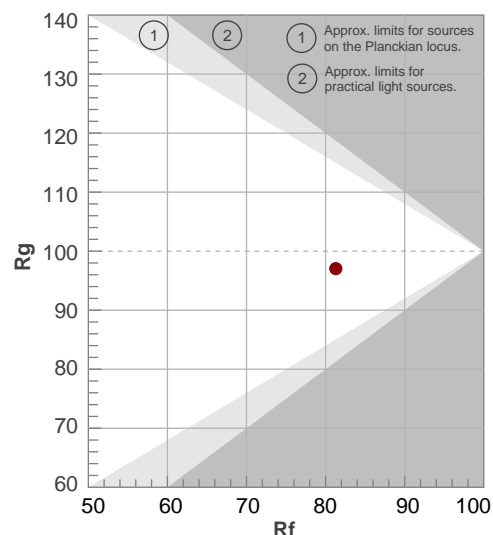
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
5626 K	83,5	18,6	81,3	97,0	78,8	72	0,330	0,335	-0,0050

## TM30 DETAILS

**Rf 81,3**  
Fidelity index Rf

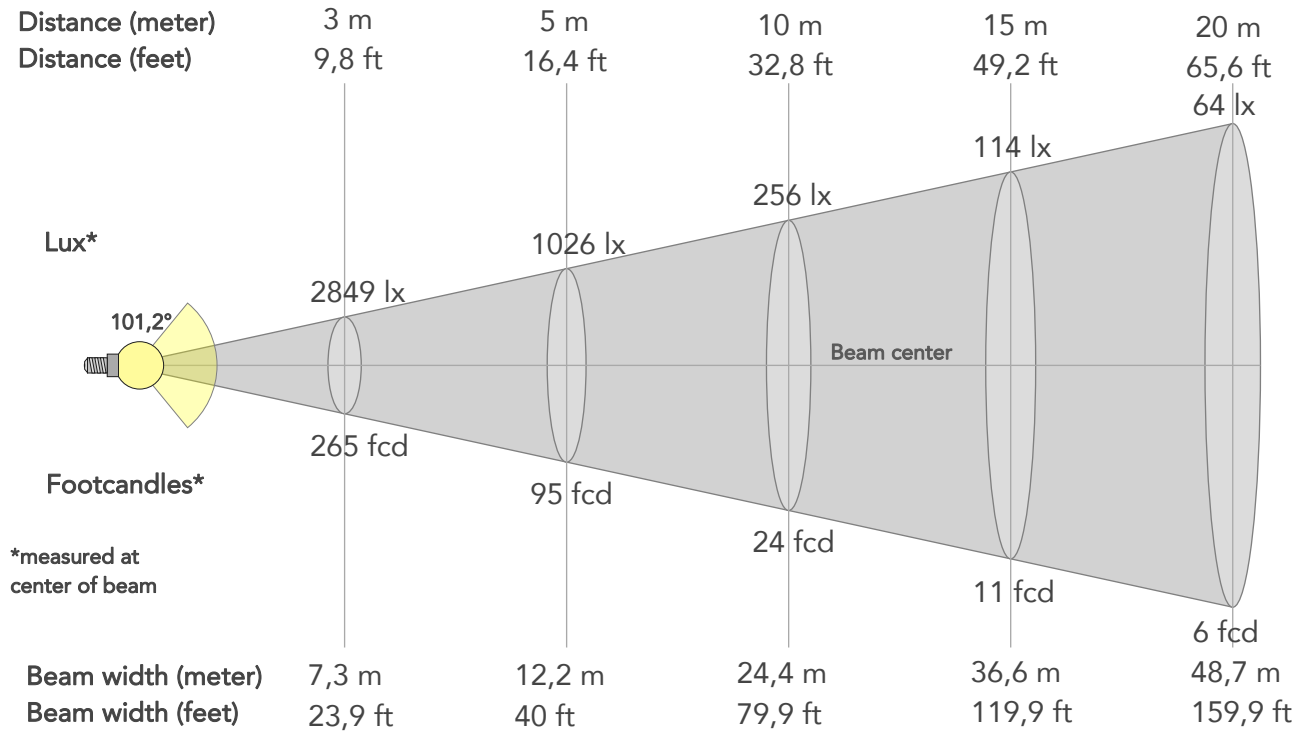
**Rg 97,0**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	78	-12%	0%
2	83	-7%	7%
3	77	-4%	13%
4	82	1%	10%
5	85	2%	6%
6	91	4%	0%
7	93	-2%	-3%
8	87	-7%	0%
9	82	-11%	11%
10	69	-7%	18%
11	67	2%	21%
12	84	5%	9%
13	86	10%	0%
14	85	6%	-5%
15	74	8%	-22%
16	87	-5%	-6%



# BEAM DETAILS

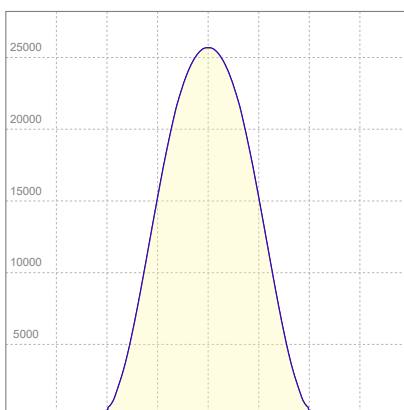
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
101,2°	155,8°	177°	82,3%	58,4%



## 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	25644lx	6411lx	2849lx	1603lx	1026lx	456lx	256lx	114lx	64lx	41lx	28lx	16lx	10lx
Footcand.	2382fcd	596fcd	265fcd	149fcd	95fcd	42fcd	24fcd	11fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	2,4m	4,9m	7,3m	9,7m	12,2m	18,3m	24,4m	36,6m	48,7m	60,9m	73,1m	97,5m	121,8m
Beam wid.	8ft	16,1ft	23,9ft	31,9ft	40ft	59,9ft	79,9ft	119,9ft	159,9ft	199,8ft	239,8ft	319,7ft	399,7ft

## LINEAR DISTRIBUTION DIAGRAM

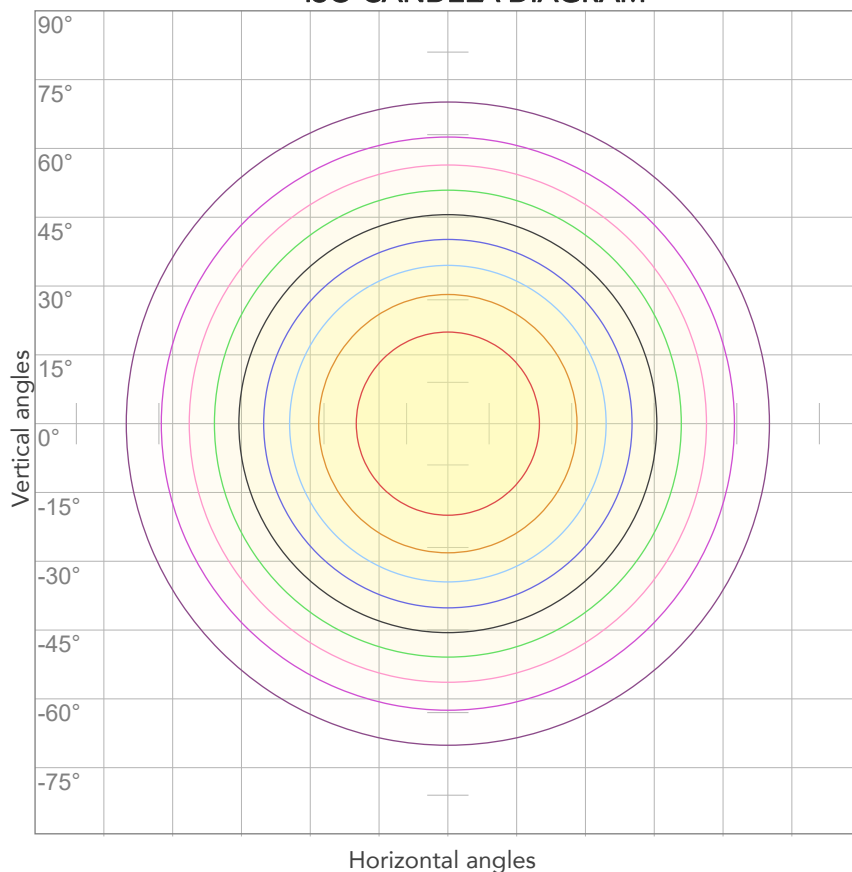


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	2,33A	522W	1,0	124lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



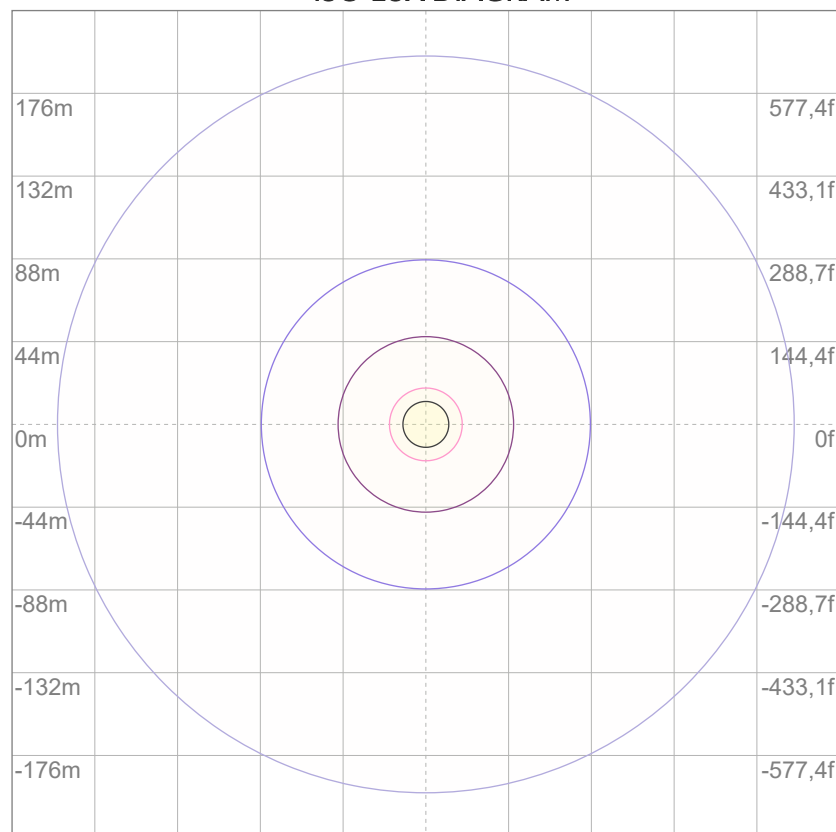
10%	2564 cd
20%	5129 cd
30%	7693 cd
40%	10258 cd
50%	12822 cd
60%	15387 cd
70%	17951 cd
80%	20516 cd

### Conditions:

Number of c-planes: 4

Candela at center: 25644 cd

## ISO LUX DIAGRAM



3%	7,69 lx
5%	12,8 lx
10%	25,6 lx
30%	76,9 lx
50%	128 lx

### Conditions:

Number of c-planes: 4

Lux at center: 256 lx

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



Total lumen output:

60376 lm

Peak candela output:

23863 cd

Light quality:

CRI: 96,4

Color temperature:

3215 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

LD Filter

Target:

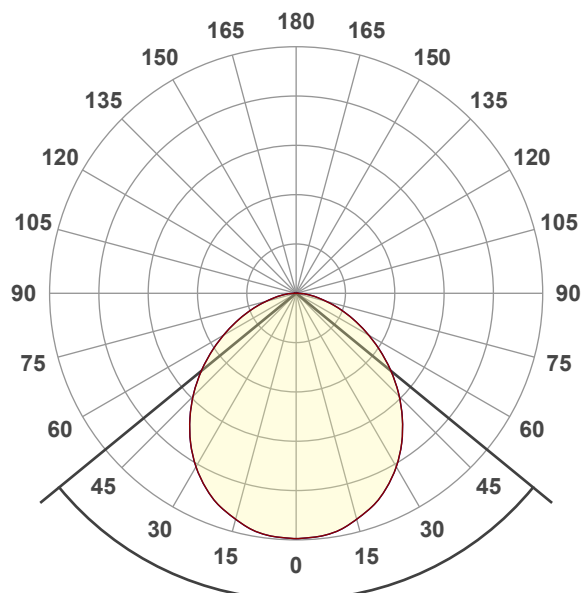
3200K - HQ

Operator:

Salvatore Giglio

Date and time:

10/09/2024 17:02:09

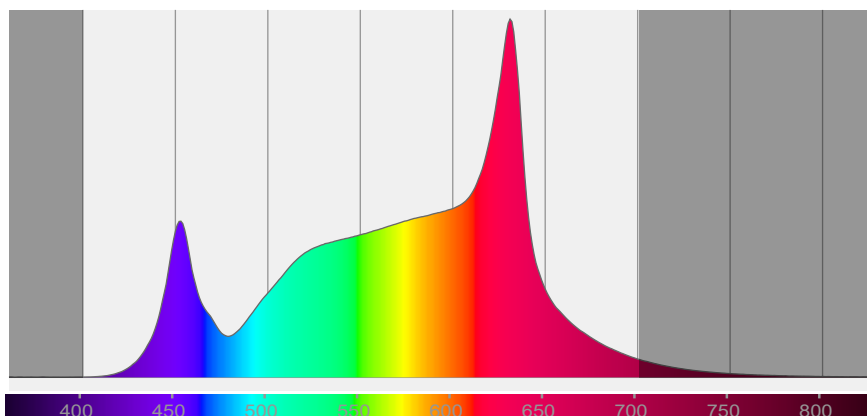


Beam angle 50%: 101,4°

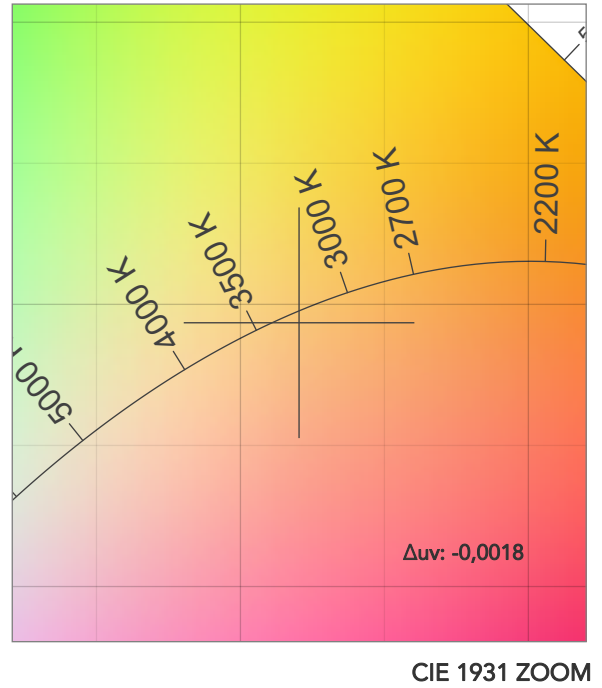
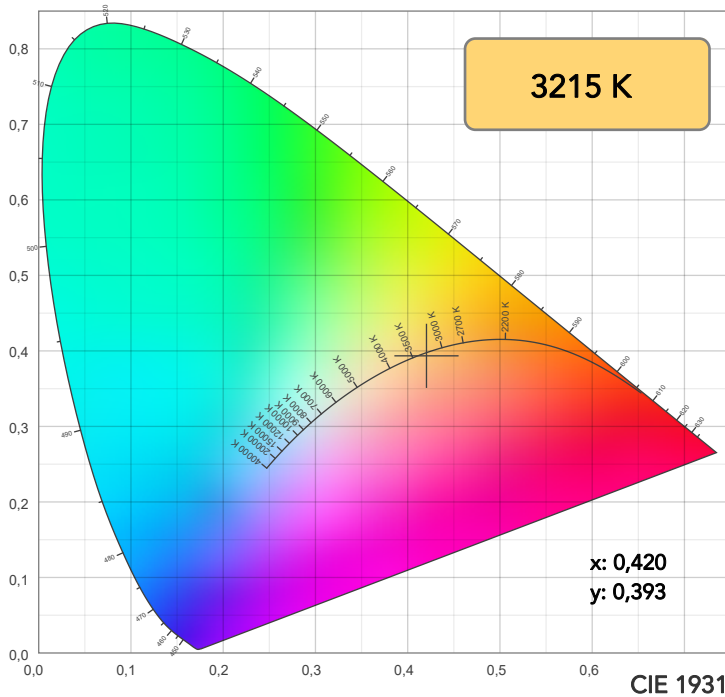
Field angle 10%: 155,3°

Cut off angle 2.5%: 174,6°

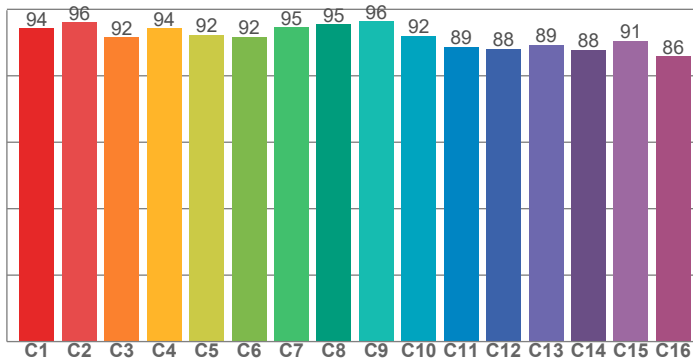
**Spectra**



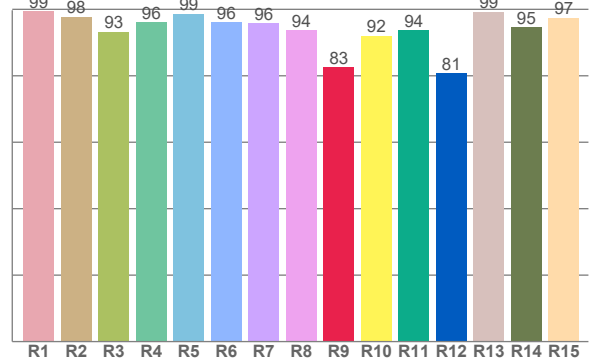
## COLOR DETAILS



**TM30: 92,1**



**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
99,5	97,8	93,3	96,0	98,6	96,0	95,9	93,8	82,6	92,0	93,8	80,8	99,3	94,7	97,4

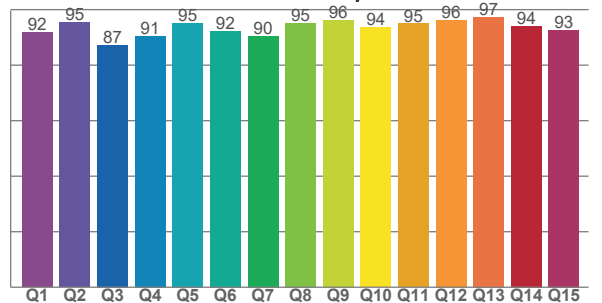
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	96,1	91,6	94,3	92,3	91,8	94,5	95,5	96,4	92,0	88,7	88,1	89,3	87,9	90,6	85,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,8	95,4	87,2	90,5	95,1	92,2	90,5	95,2	96,2	93,6	95,0	96,3	97,3	94,1	92,7

**CQS: 92,9**



## 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	$\Delta uv$
3215 K	96,4	82,6	92,1	102,8	92,9	87	0,420	0,393	-0,0018

## TM30 DETAILS

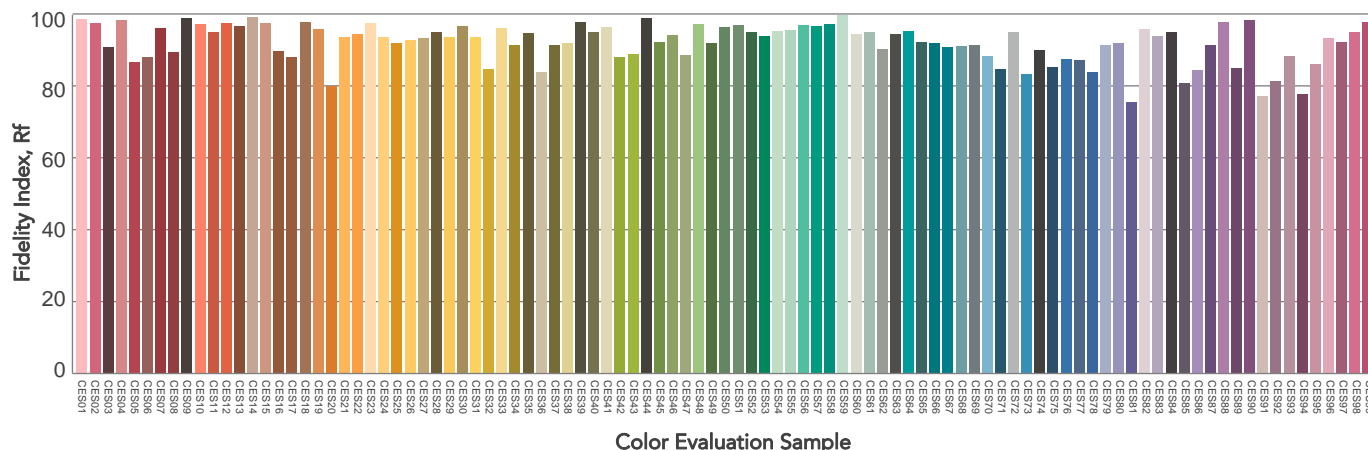
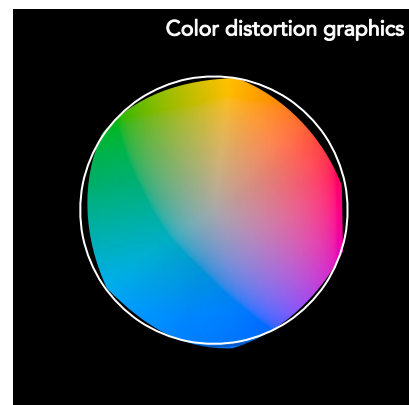
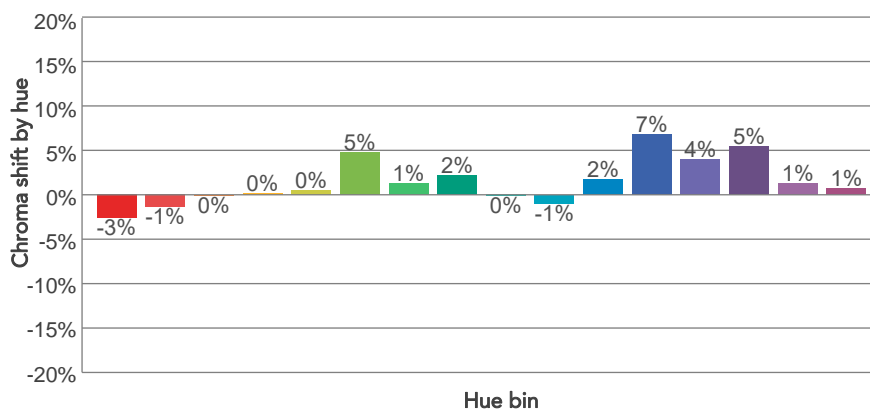
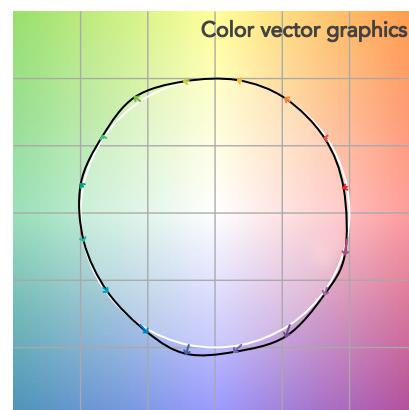
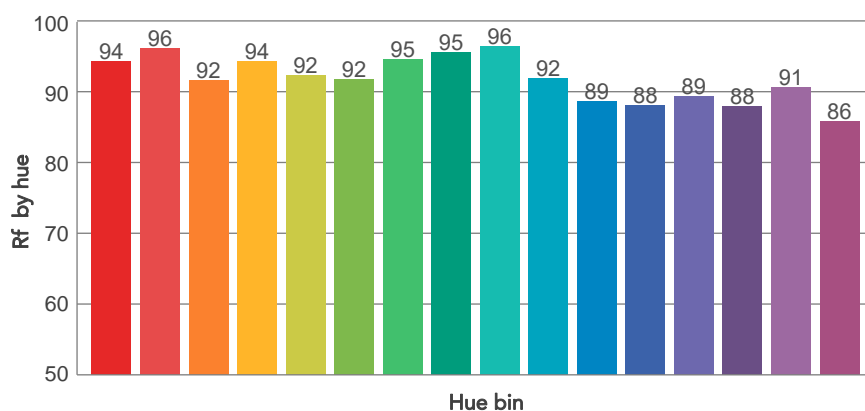
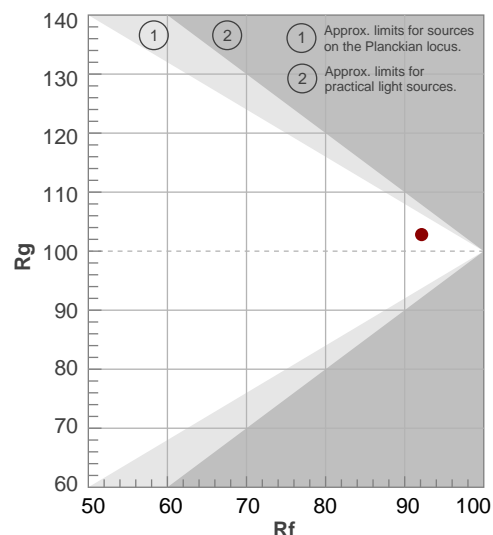
**Rf 92,1**

Fidelity index Rf

**Rg 102,8**

Gammut index

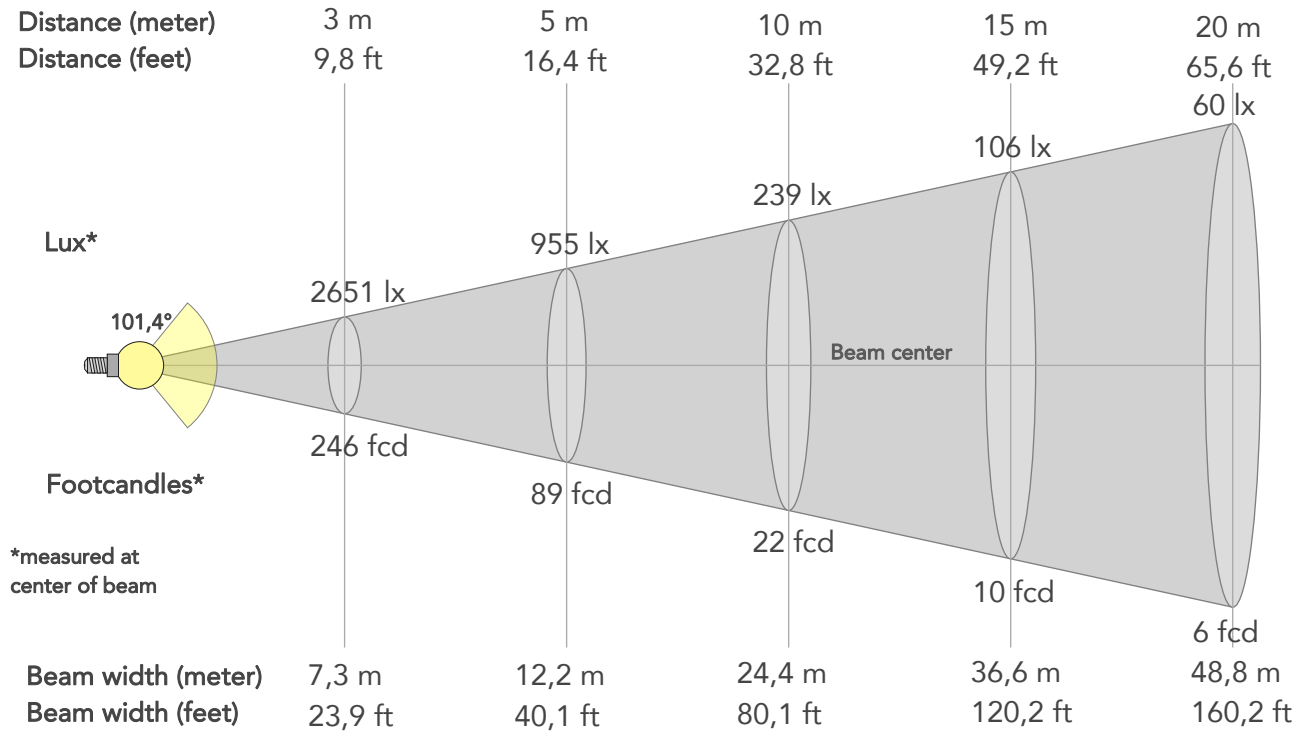
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	96	-1%	1%
3	92	0%	4%
4	94	0%	3%
5	92	0%	3%
6	92	5%	2%
7	95	1%	-1%
8	95	2%	-2%
9	96	0%	1%
10	92	-1%	4%
11	89	2%	8%
12	88	7%	-1%
13	89	4%	-6%
14	88	5%	-7%
15	91	1%	-5%
16	86	1%	-11%





# BEAM DETAILS

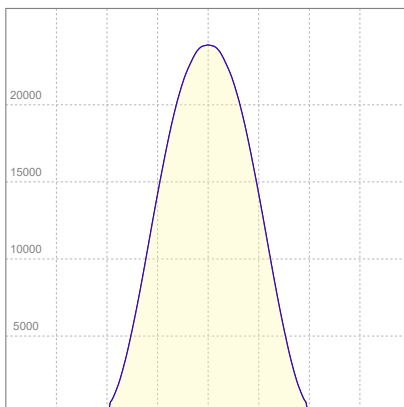
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
101,4°	155,3°	174,6°	81,9%	58,0%



## 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	23863lx	5966lx	2651lx	1491lx	955lx	424lx	239lx	106lx	60lx	38lx	27lx	15lx	10lx
Footcand.	2217fcd	554fcd	246fcd	139fcd	89fcd	39fcd	22fcd	10fcd	6fcd	4fcd	2fcd	1fcd	1fcd
Beam wid.	2,4m	4,9m	7,3m	9,8m	12,2m	18,3m	24,4m	36,6m	48,8m	61,1m	73,3m	97,7m	122,1m
Beam wid.	8,1ft	16,1ft	23,9ft	32ft	40,1ft	60,1ft	80,1ft	120,2ft	160,2ft	200,3ft	240,3ft	320,4ft	400,5ft

## LINEAR DISTRIBUTION DIAGRAM

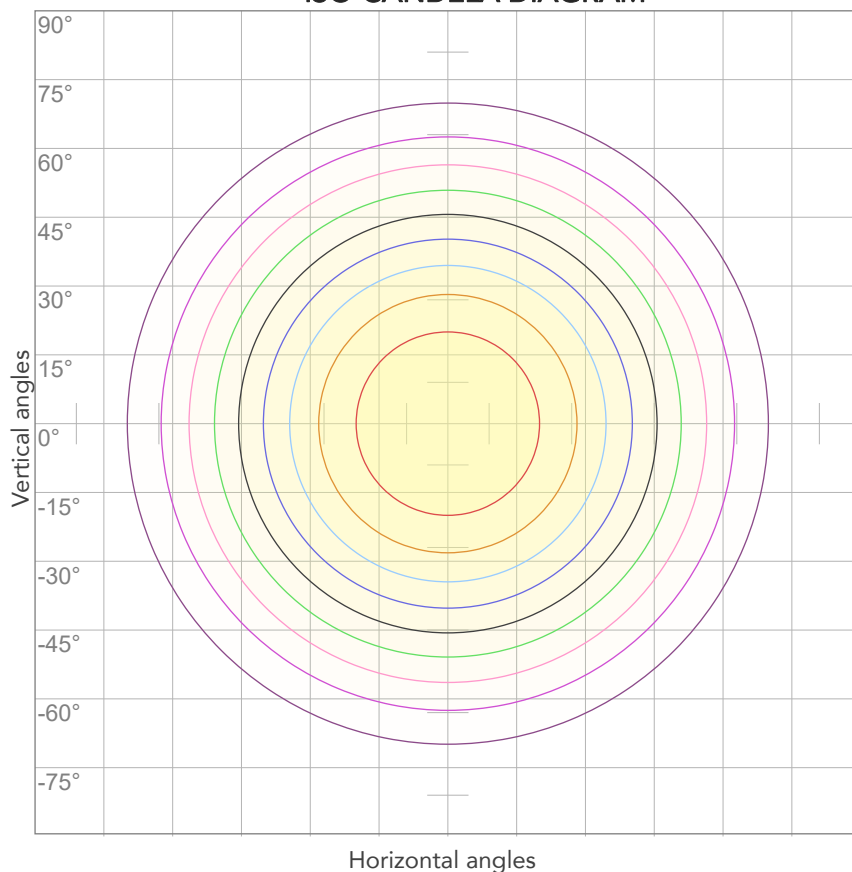


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
222V	2,44A	541W	1,0	112lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



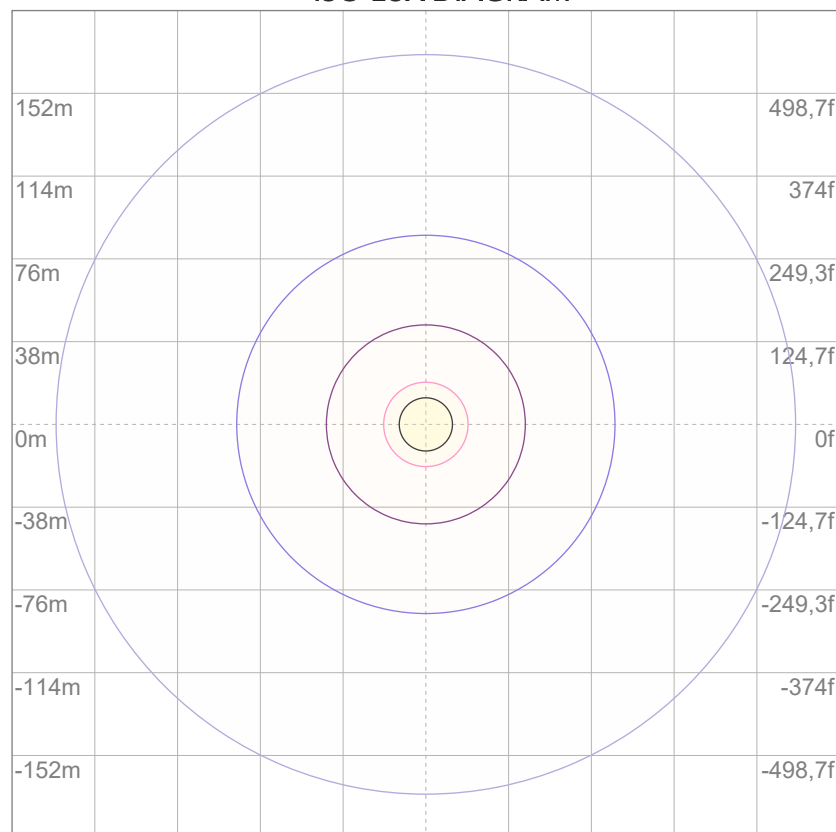
10%	2386 cd
20%	4773 cd
30%	7159 cd
40%	9545 cd
50%	11931 cd
60%	14318 cd
70%	16704 cd
80%	19090 cd

### Conditions:

Number of c-planes: 4

Candela at center: 23863 cd

## ISO LUX DIAGRAM



3%	7,16 lx
5%	11,9 lx
10%	23,9 lx
30%	71,6 lx
50%	119 lx

### Conditions:

Number of c-planes: 4

Lux at center: 239 lx

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



Total lumen output:

56105 lm

Peak candela output:

21937 cd

Light quality:

CRI: 96,7

Color temperature:

5652 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

LD Filter

Target:

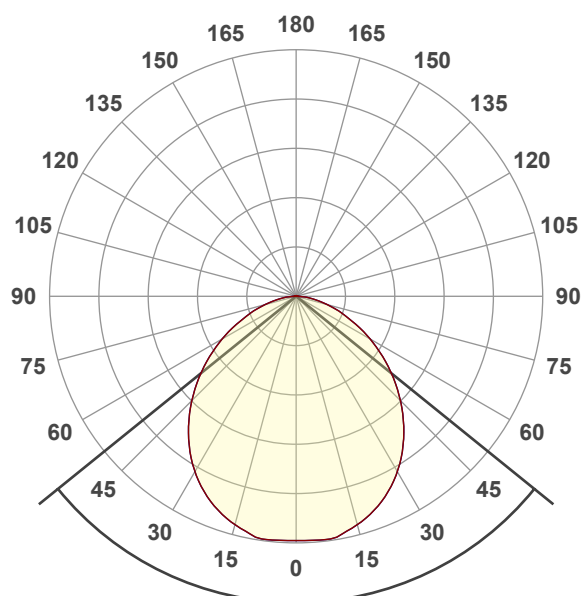
35600K - HQ

Operator:

Salvatore Giglio

Date and time:

10/09/2024 17:08:10

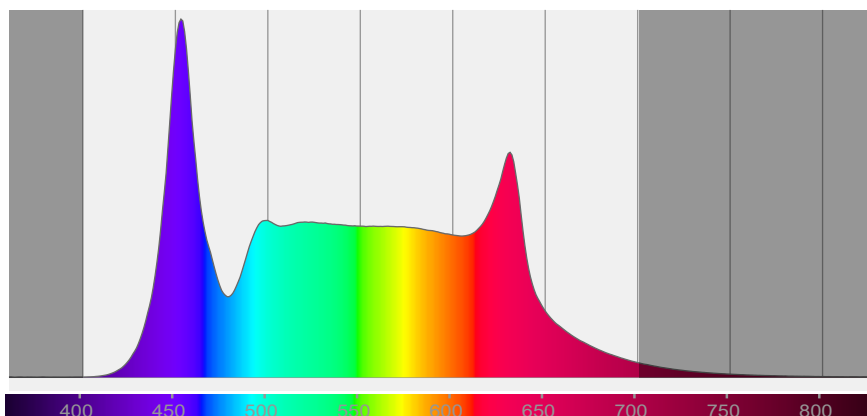


Beam angle 50%: 102,1°

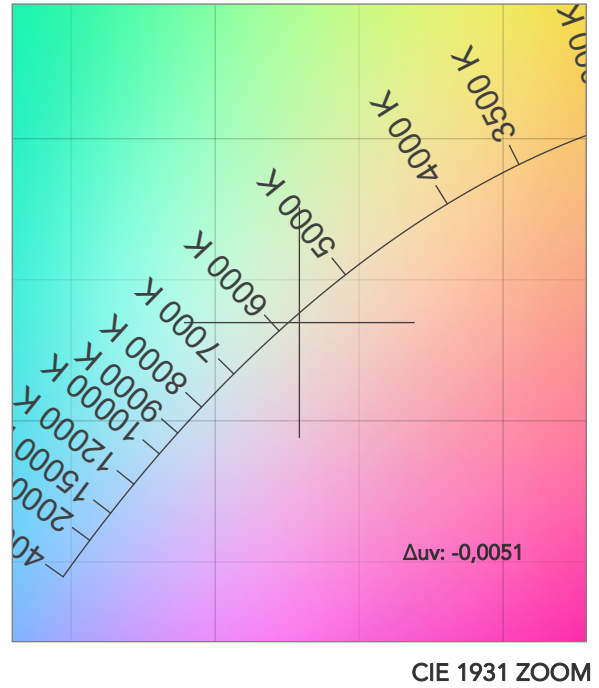
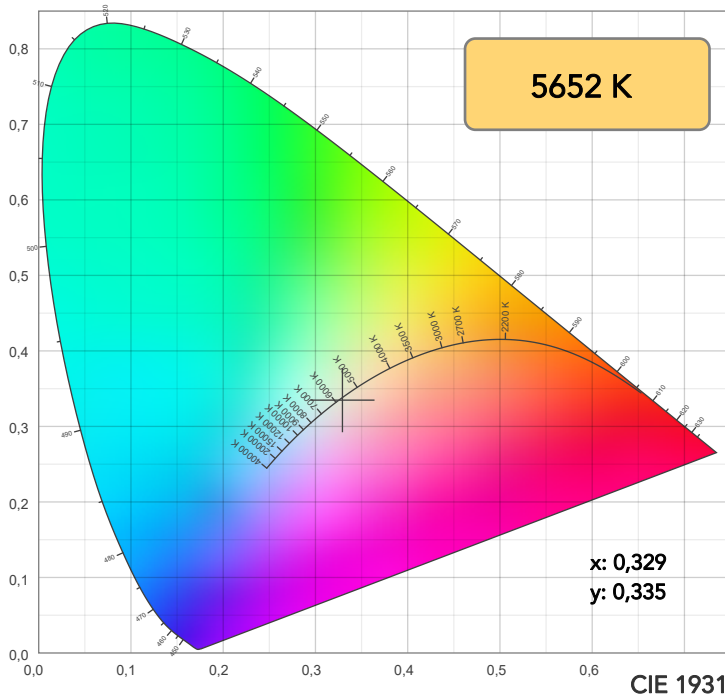
Field angle 10%: 155,6°

Cut off angle 2.5%: 171,9°

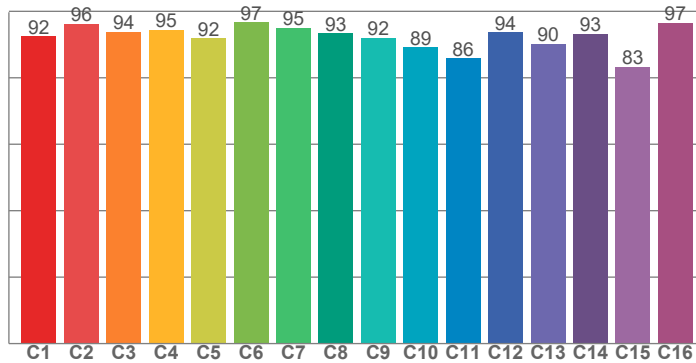
**Spectra**



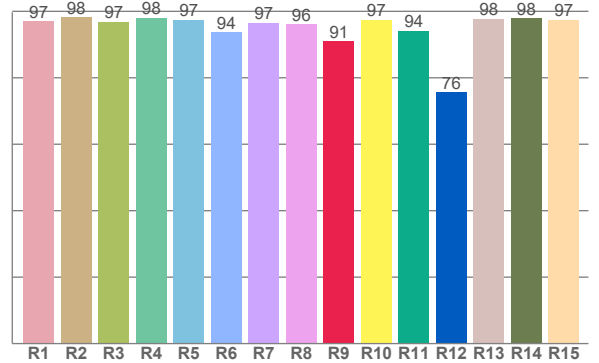
## COLOR DETAILS



TM30: 92,2



CRI: 96,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,9	98,2	96,9	98,1	97,4	93,6	96,6	96,2	90,9	97,5	94,2	75,6	97,8	97,9	97,4

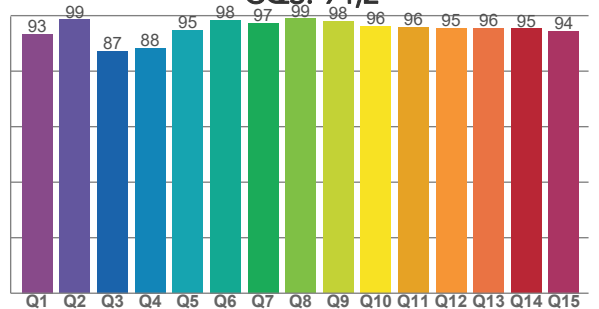
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,5	96,2	93,7	94,5	91,8	96,6	95,0	93,4	92,0	89,1	85,8	93,6	90,2	93,2	83,3	96,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,4	98,5	87,2	88,3	94,7	98,5	97,4	99,0	98,0	96,2	95,8	95,4	95,6	95,4	94,5

CQS: 94,2



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5652 K	96,7	90,9	92,2	101,1	94,2	94	0,329	0,335	-0,0051

## TM30 DETAILS

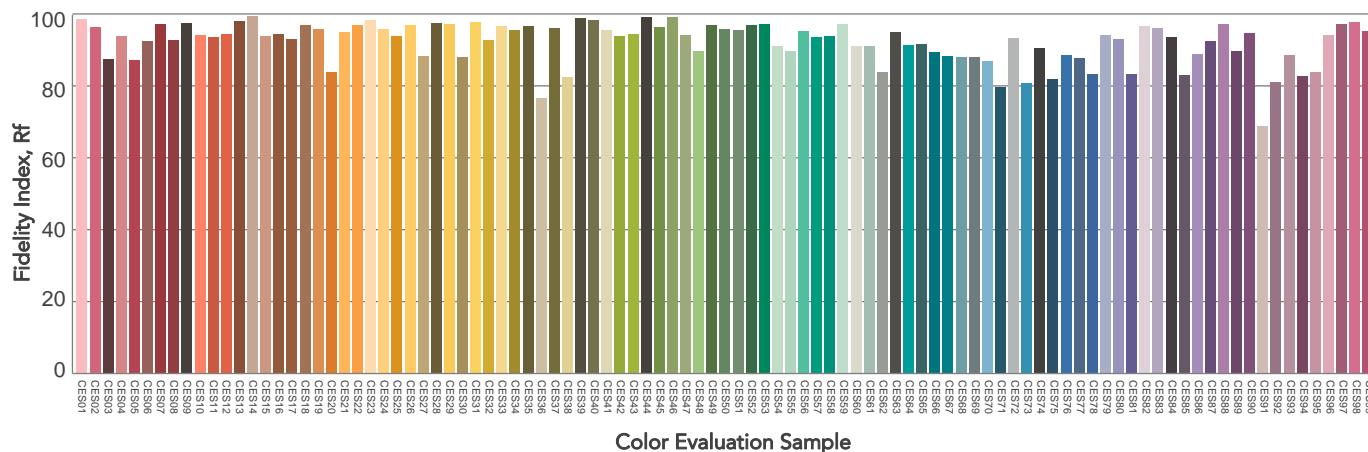
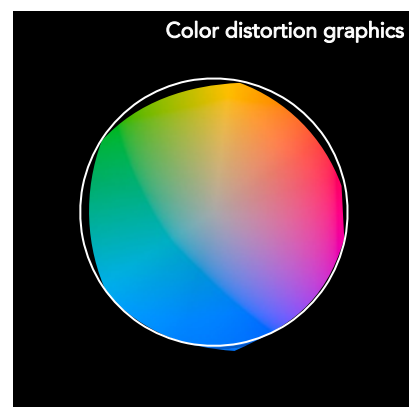
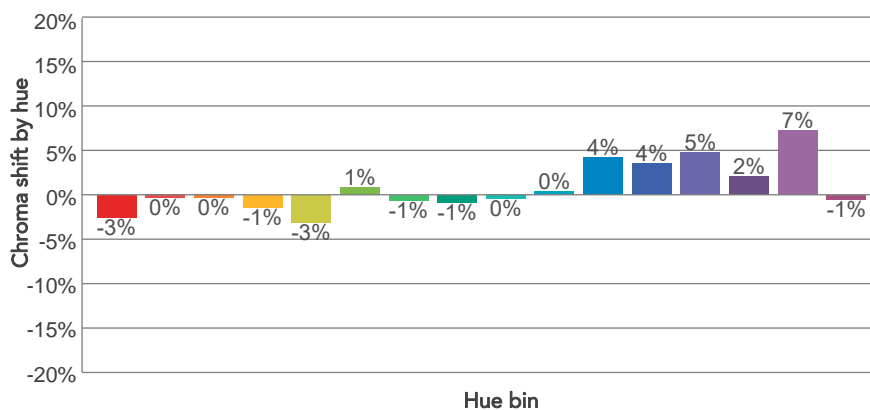
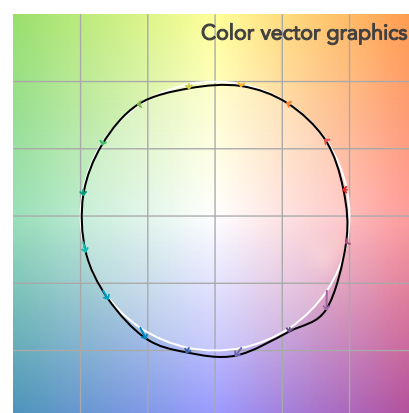
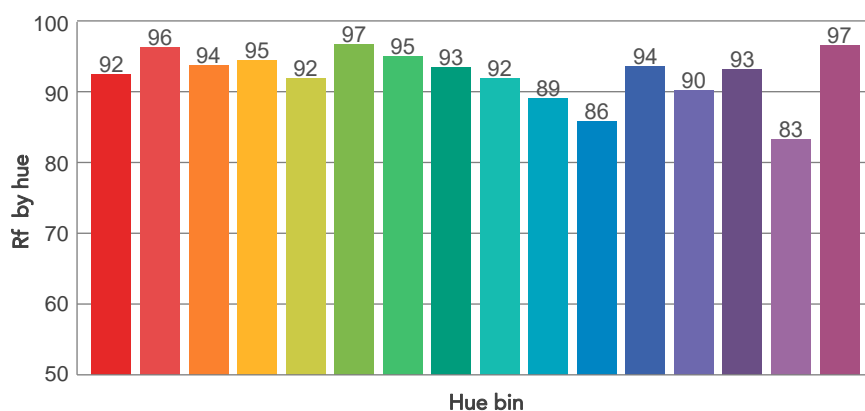
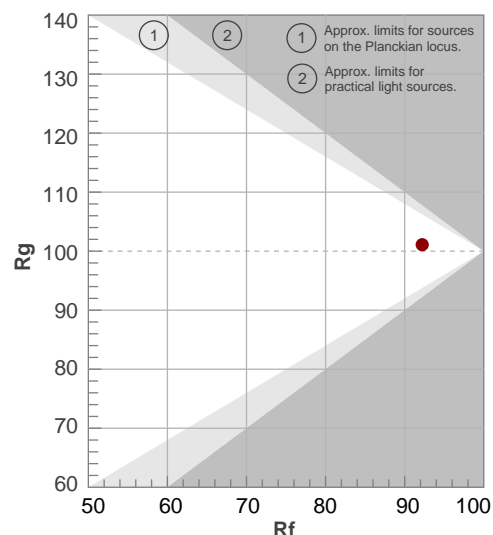
**Rf 92,2**

Fidelity index Rf

**Rg 101,1**

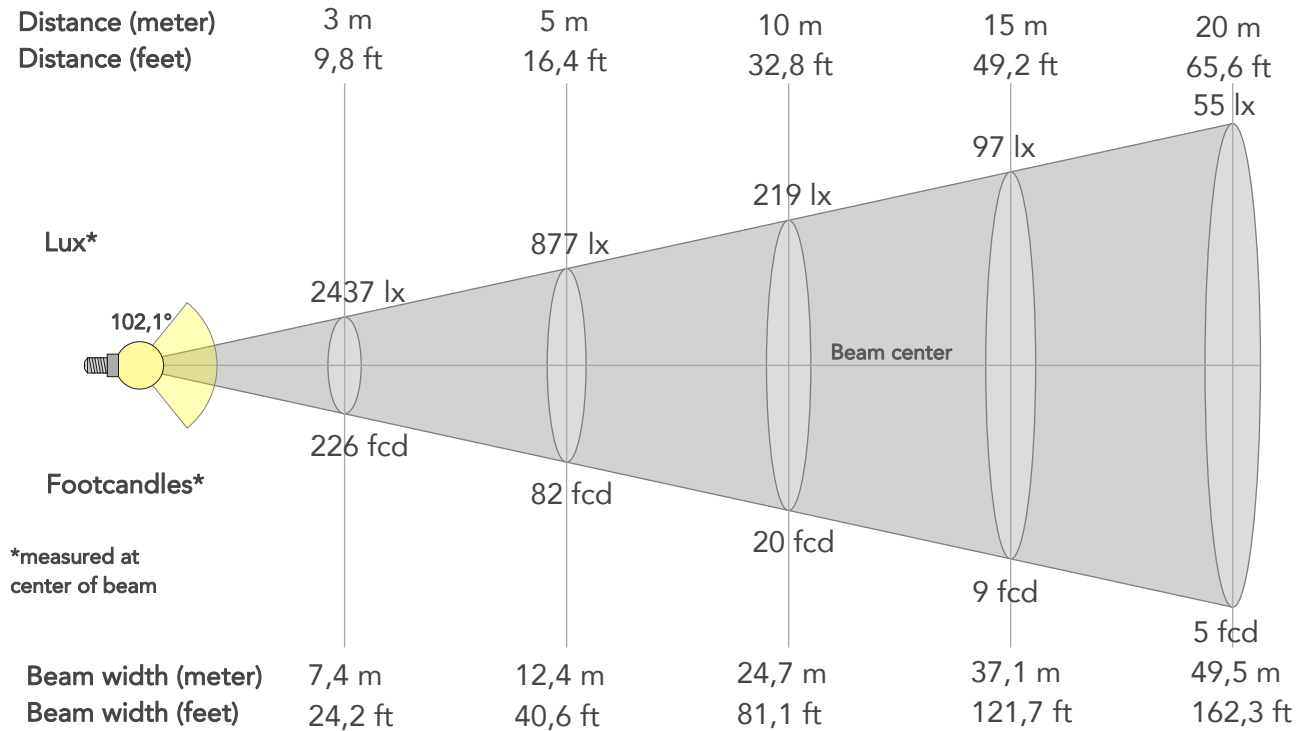
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	1%
2	96	0%	1%
3	94	0%	2%
4	95	-1%	0%
5	92	-3%	0%
6	97	1%	2%
7	95	-1%	2%
8	93	-1%	4%
9	92	0%	7%
10	89	0%	7%
11	86	4%	8%
12	94	4%	-1%
13	90	5%	-5%
14	93	2%	-2%
15	83	7%	-12%
16	97	-1%	0%



# BEAM DETAILS

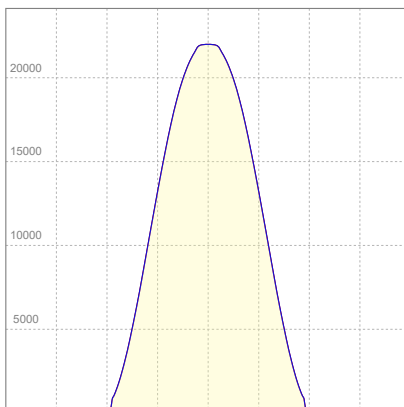
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
102,1°	155,6°	171,9°	82,0%	58,0%



## 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	21937lx	5484lx	2437lx	1371lx	877lx	390lx	219lx	97lx	55lx	35lx	24lx	14lx	9lx
Footcand.	2038fcd	510fcd	226fcd	127fcd	82fcd	36fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	2,5m	4,9m	7,4m	9,9m	12,4m	18,6m	24,7m	37,1m	49,5m	61,8m	74,2m	98,9m	123,7m
Beam wid.	8,2ft	16,3ft	24,2ft	32,4ft	40,6ft	60,8ft	81,1ft	121,7ft	162,3ft	202,8ft	243,4ft	324,5ft	405,6ft

## LINEAR DISTRIBUTION DIAGRAM

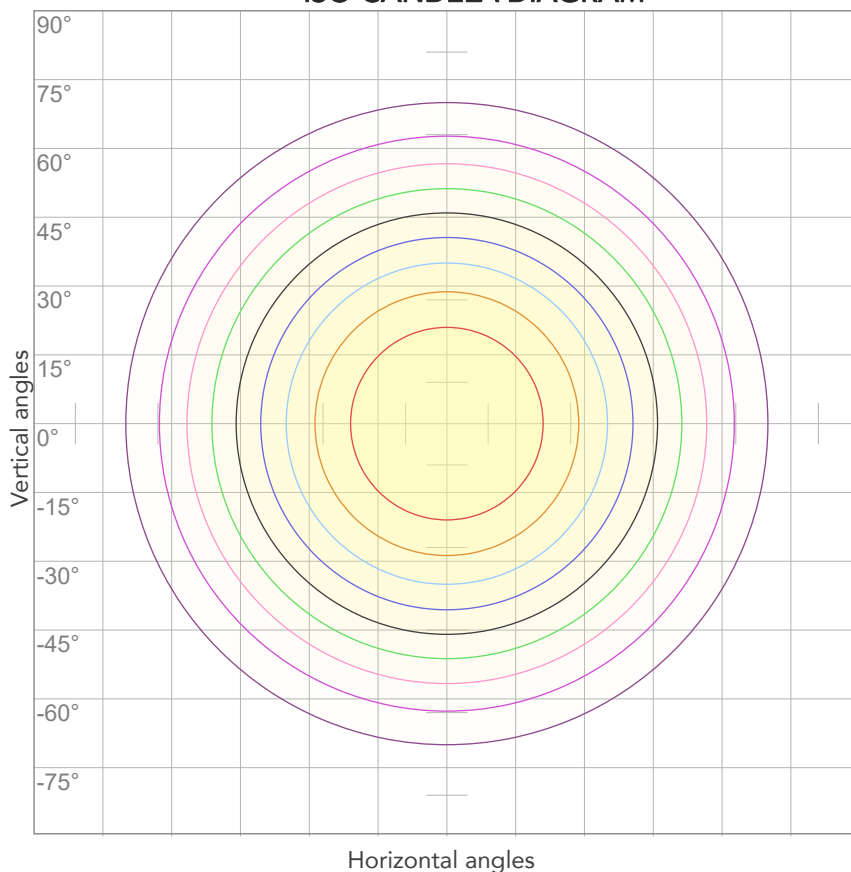


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	2,46A	554W	1,0	101lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



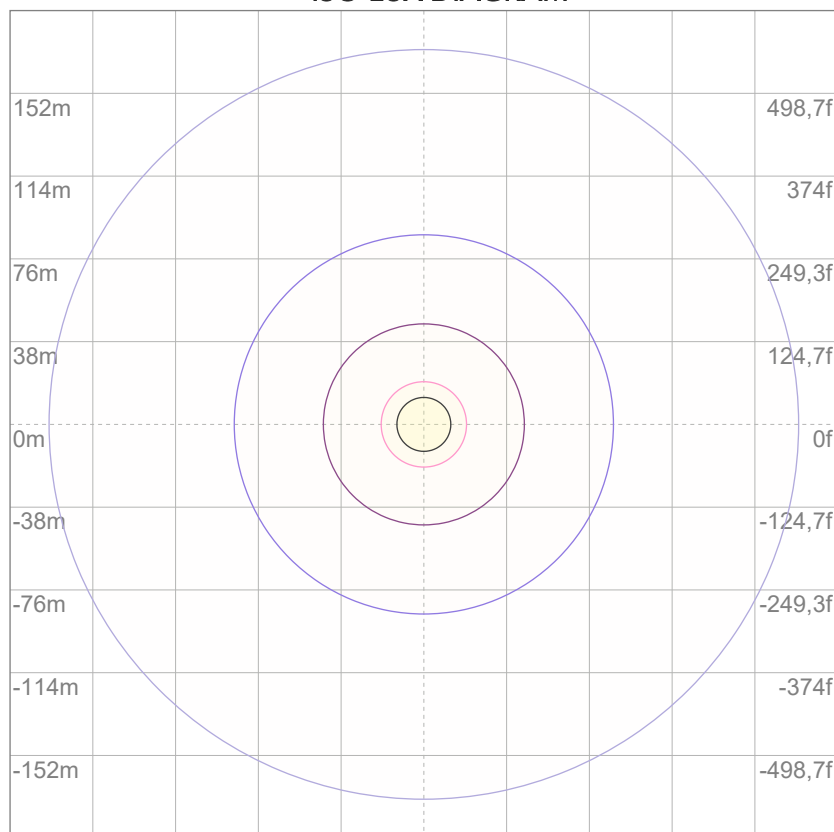
10%	2194 cd
20%	4387 cd
30%	6581 cd
40%	8775 cd
50%	10969 cd
60%	13162 cd
70%	15356 cd
80%	17550 cd

### Conditions:

Number of c-planes: 4

Candela at center: 21937 cd

## ISO LUX DIAGRAM



3%	6,58 lx
5%	11,0 lx
10%	21,9 lx
30%	65,8 lx
50%	110 lx

### Conditions:

Number of c-planes: 4

Lux at center: 219 lx

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



Total lumen output:

55995 lm

Peak candela output:

34339 cd

Light quality:

CRI: 92,9

Color temperature:

3242 K

**PRODUCT NAME:**  
ECLPANELIP SOFT 2X1

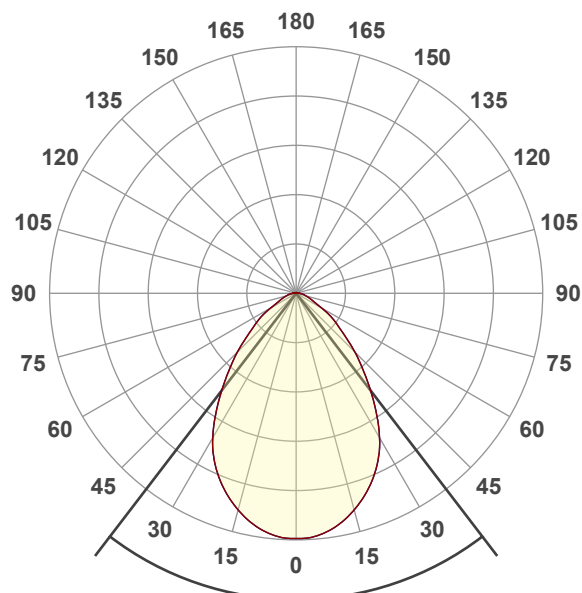
**MEASURAMENT CONDITIONS:**

Beam angle:  
INT Filter

Target:  
3200K - HB

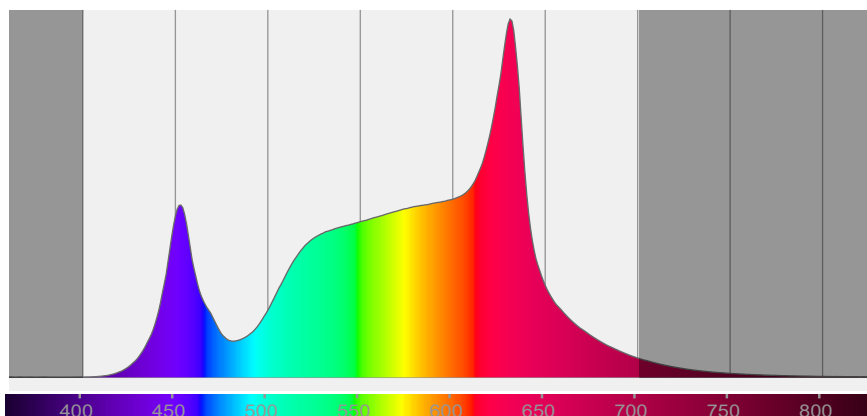
Operator:  
Salvatore Giglio

Date and time:  
10/09/2024 16:15:35



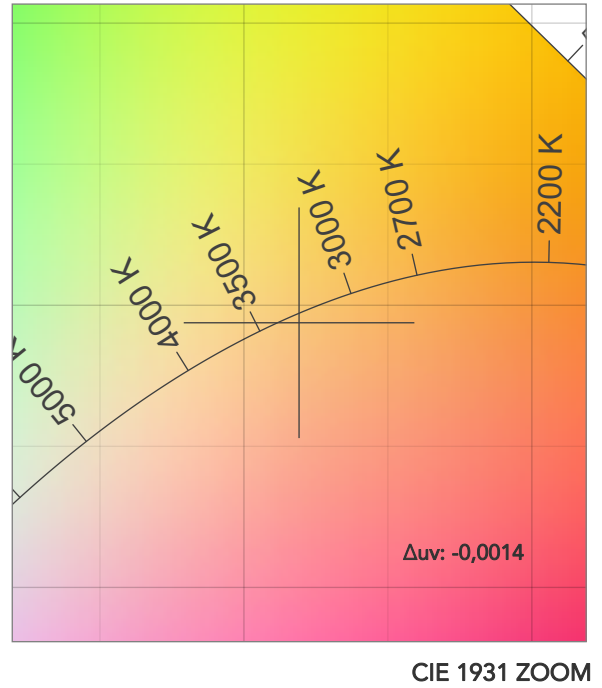
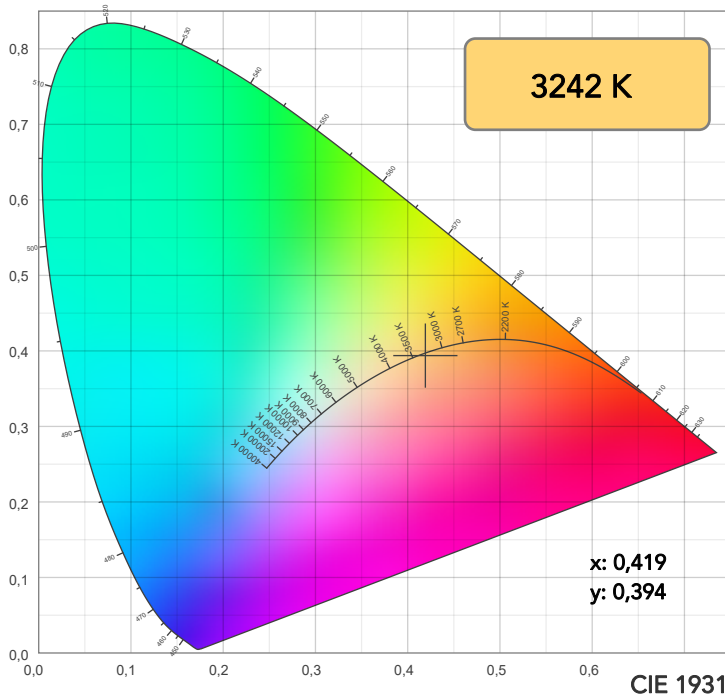
Beam angle 50%: 74,9°  
Field angle 10%: 123,8°  
Cut off angle 2.5%: 166,2°

**Spectra**

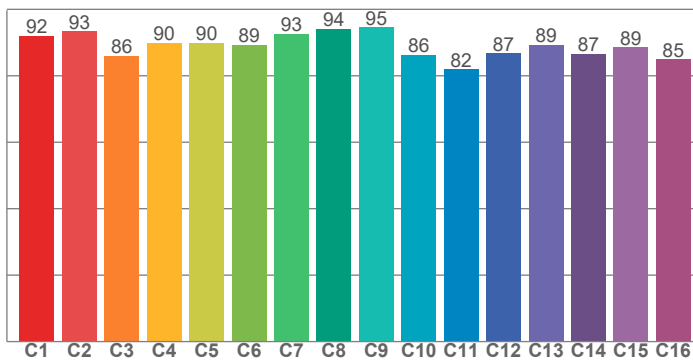




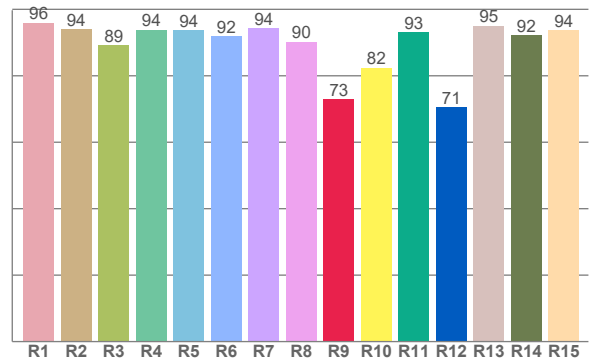
# COLOR DETAILS



TM30: 89,1



CRI: 92,9 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,9	94,1	89,2	93,9	93,6	91,8	94,4	90,2	72,9	82,4	93,1	70,6	95,1	92,3	93,7

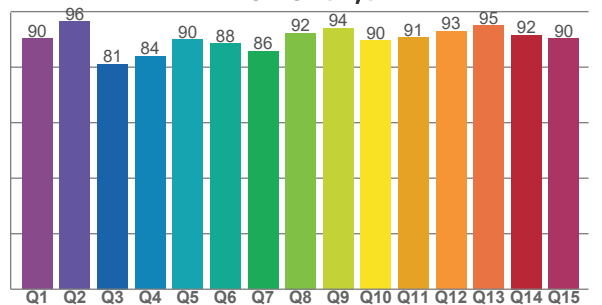
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,0	93,4	86,0	89,9	89,8	89,3	92,7	94,1	94,6	86,2	82,0	86,8	89,2	86,5	88,6	85,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,3	96,4	81,1	83,9	89,9	88,5	85,7	92,4	94,1	89,5	90,7	92,9	95,0	91,6	90,2

CQS: 89,3



## 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
3242 K	92,9	72,9	89,1	102,9	89,3	83	0,419	0,394	-0,0014

## TM30 DETAILS

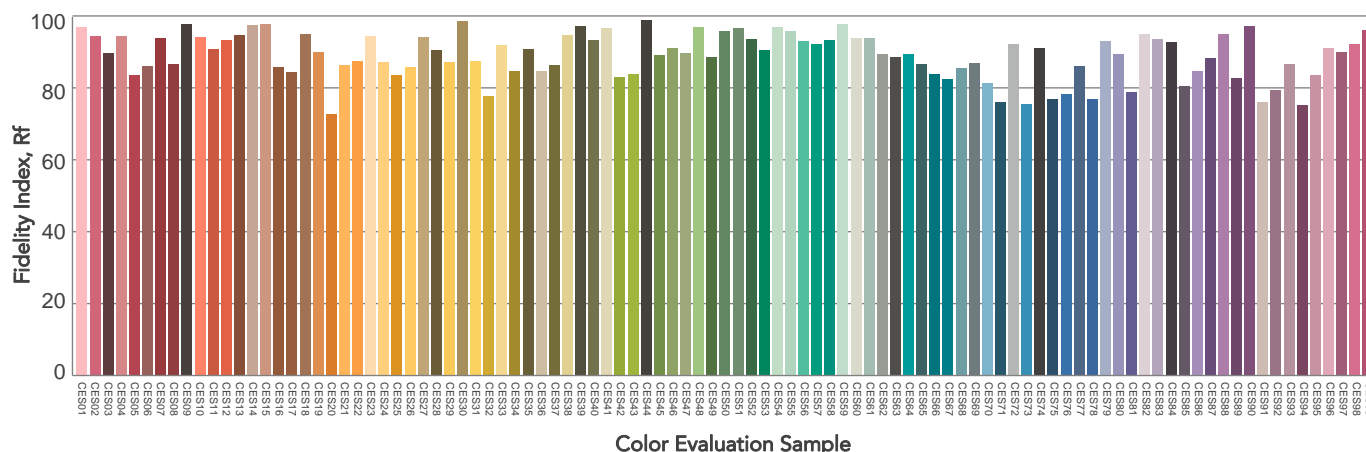
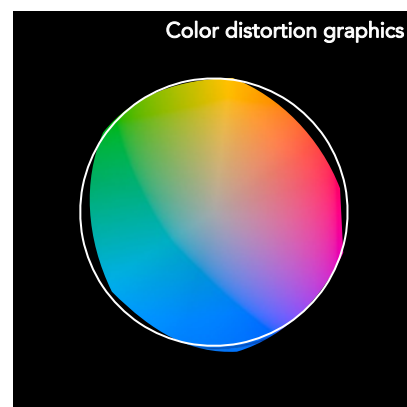
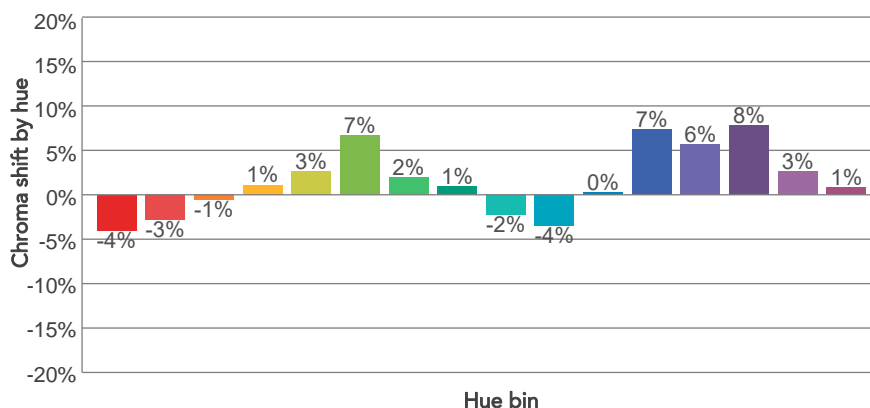
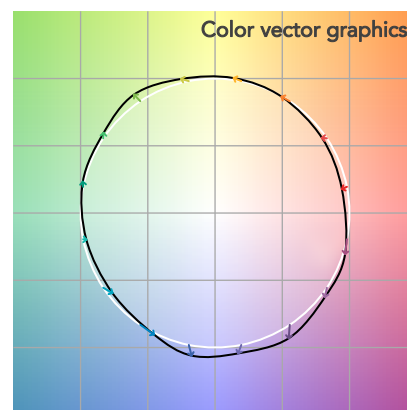
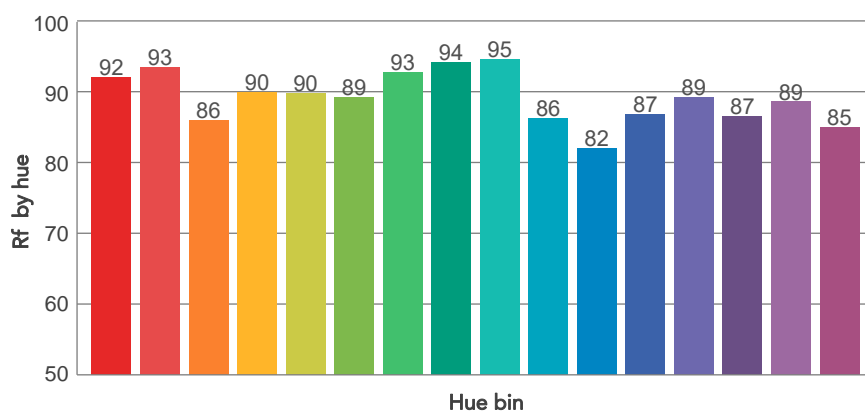
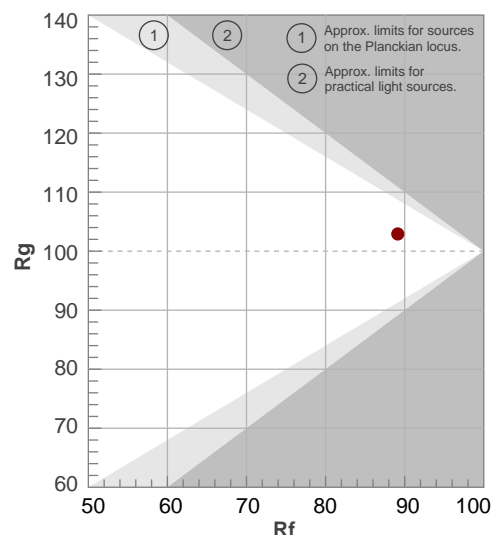
**Rf 89,1**

Fidelity index Rf

**Rg 102,9**

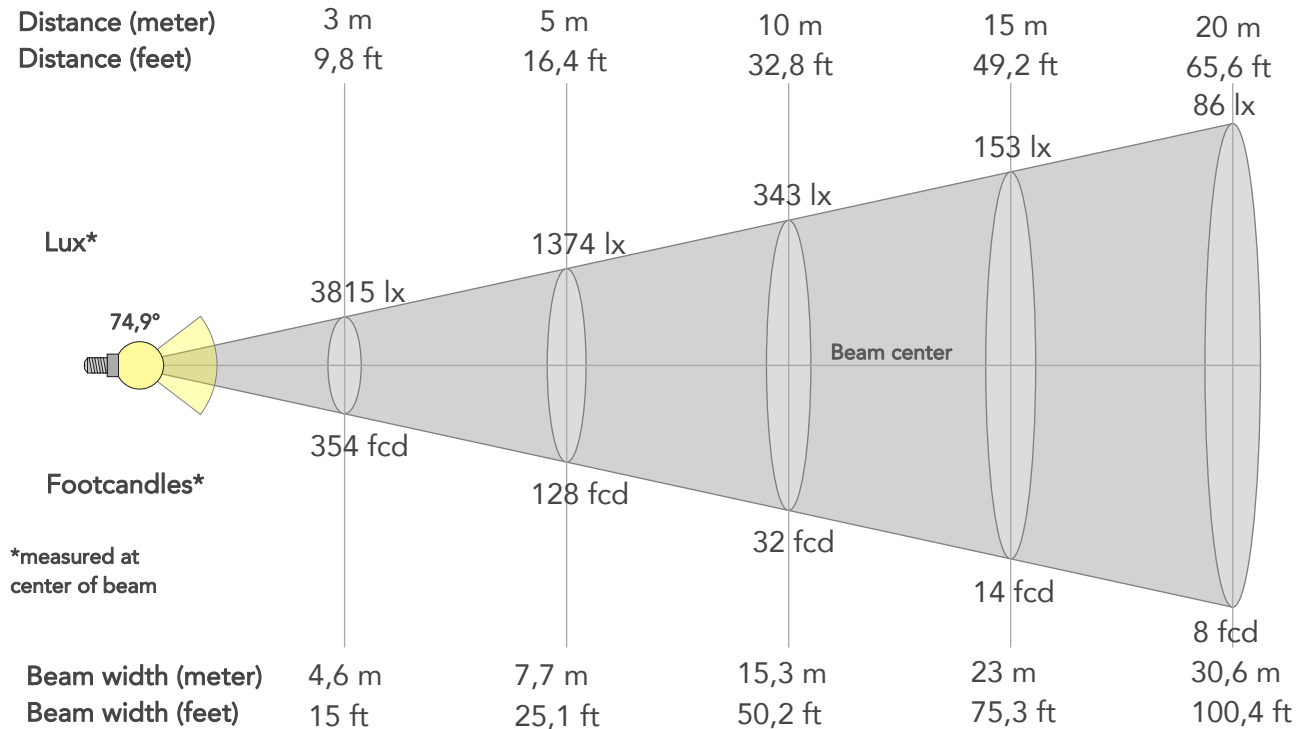
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	93	-3%	2%
3	86	-1%	7%
4	90	1%	6%
5	90	3%	5%
6	89	7%	1%
7	93	2%	-4%
8	94	1%	-4%
9	95	-2%	1%
10	86	-4%	7%
11	82	0%	12%
12	87	7%	4%
13	89	6%	-3%
14	87	8%	-6%
15	89	3%	-6%
16	85	1%	-11%



# BEAM DETAILS

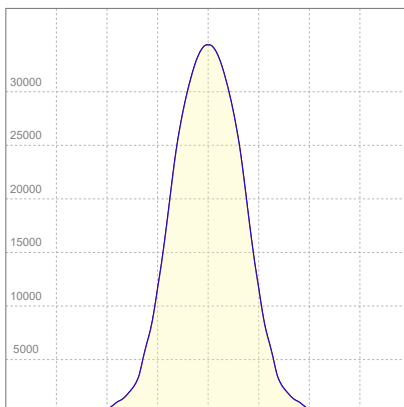
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,9°	123,8°	166,2°	90,8%	73,5%



## 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	34339lx	8585lx	3815lx	2146lx	1374lx	610lx	343lx	153lx	86lx	55lx	38lx	21lx	14lx
Footcand.	3190fcd	798fcd	354fcd	199fcd	128fcd	57fcd	32fcd	14fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	1,5m	3,1m	4,6m	6,1m	7,7m	11,5m	15,3m	23m	30,6m	38,3m	45,9m	61,2m	76,6m
Beam wid.	5,1ft	10,1ft	15ft	20,1ft	25,1ft	37,7ft	50,2ft	75,3ft	100,4ft	125,6ft	150,7ft	200,9ft	251,1ft

## LINEAR DISTRIBUTION DIAGRAM

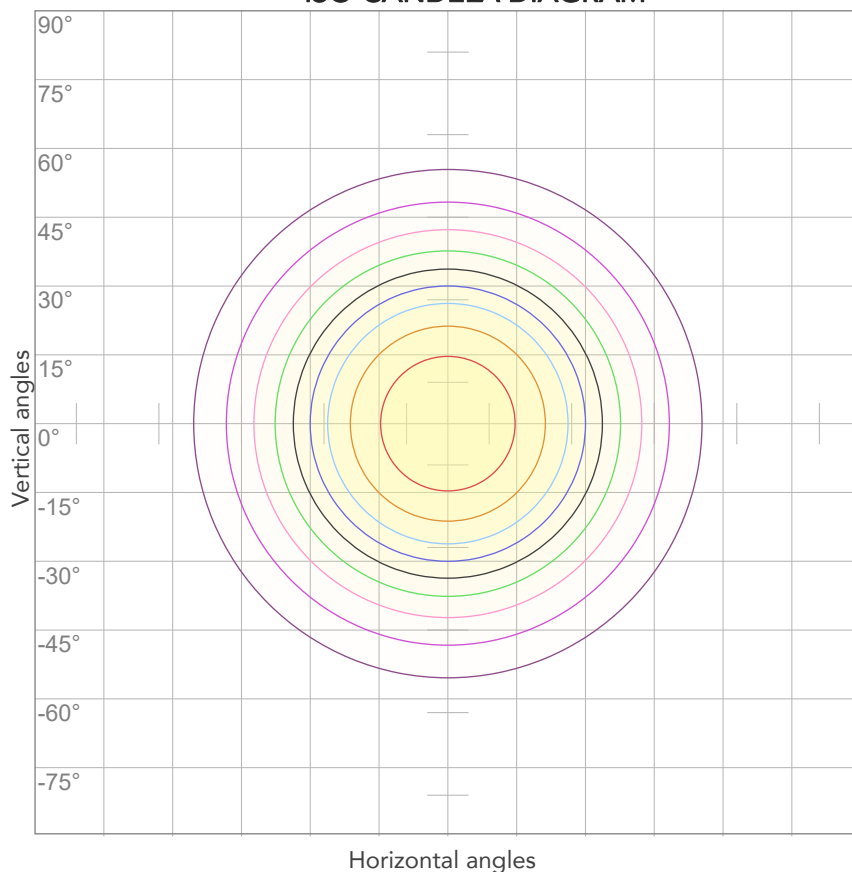


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	2,43A	546W	1,0	103lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



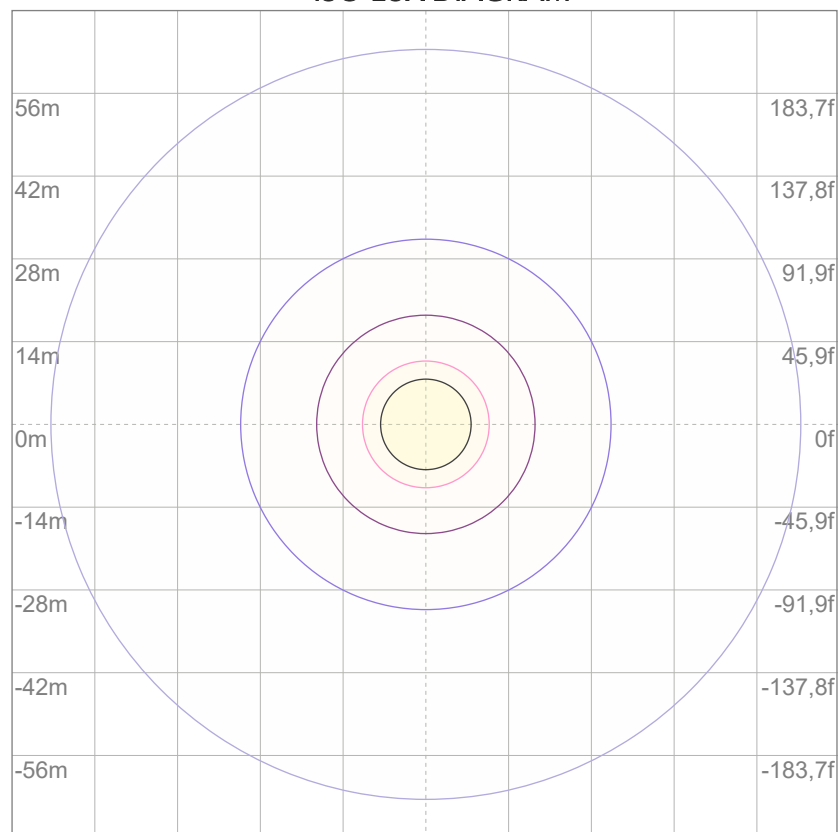
10%	3434 cd
20%	6868 cd
30%	10302 cd
40%	13735 cd
50%	17169 cd
60%	20603 cd
70%	24037 cd
80%	27471 cd

### Conditions:

Number of c-planes: 4

Candela at center: 34339 cd

## ISO LUX DIAGRAM



3%	10,3 lx
5%	17,2 lx
10%	34,3 lx
30%	103 lx
50%	172 lx

### Conditions:

Number of c-planes: 4

Lux at center: 343 lx

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



Total lumen output:

57034 lm

Peak candela output:

35120 cd

Light quality:

CRI: 83,2

Color temperature:

5603 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

INT Filter

Target:

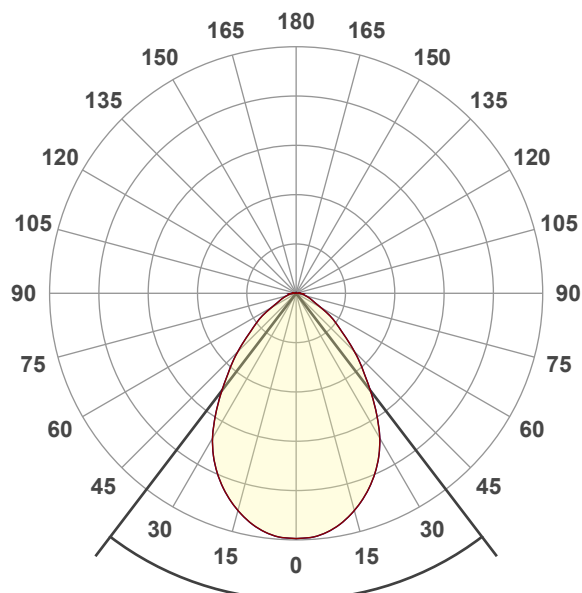
5600K - HB

Operator:

Salvatore Giglio

Date and time:

10/09/2024 16:33:41

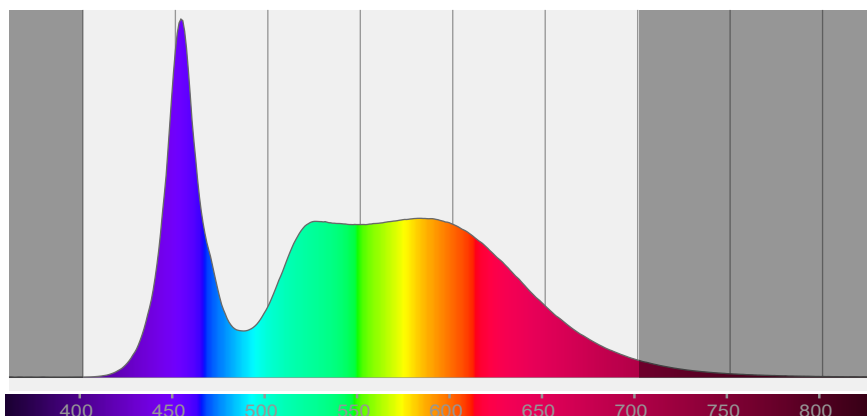


Beam angle 50%: 74,7°

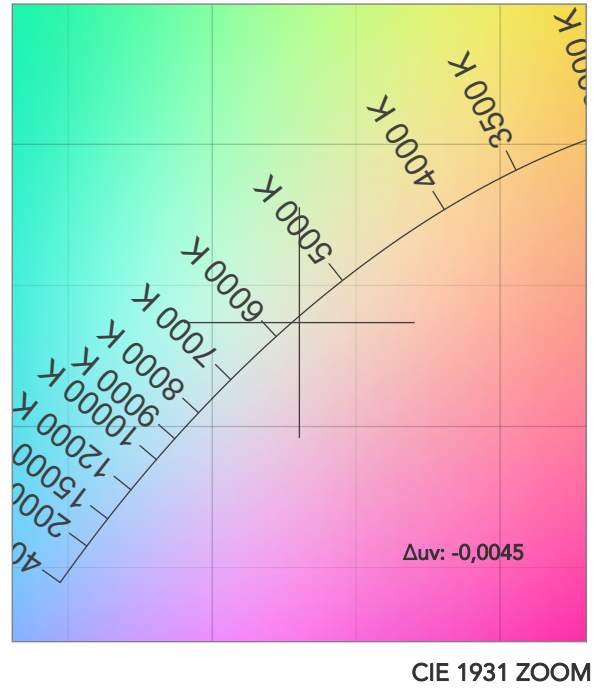
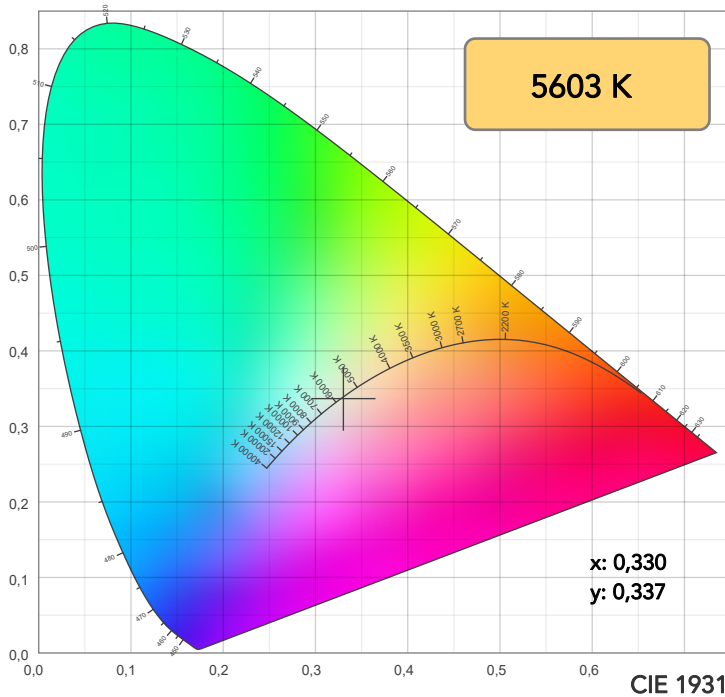
Field angle 10%: 123,5°

Cut off angle 2.5%: 166,4°

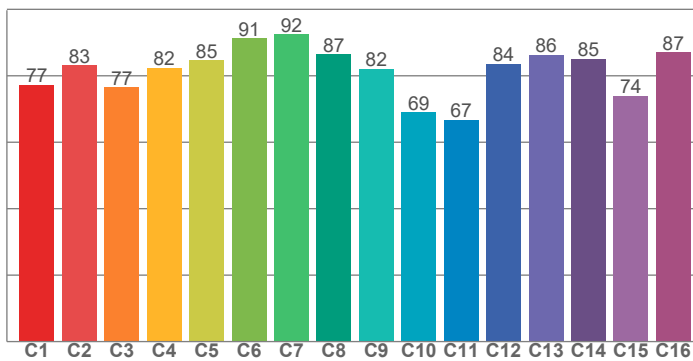
**Spectra**



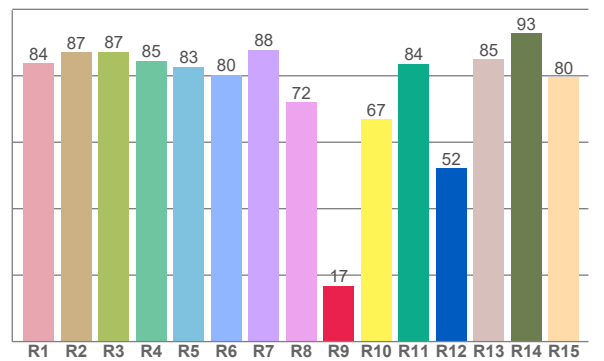
# COLOR DETAILS



TM30: 81,2



CRI: 83,2 (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
83,7	87,1	87,3	84,5	82,7	80,3	87,9	72,1	16,8	66,9	83,6	52,1	84,9	92,7	79,6

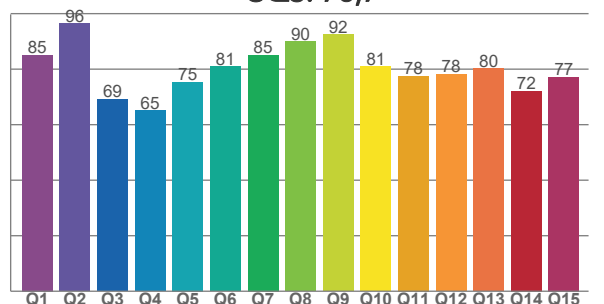
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77,2	83,1	76,6	82,5	84,6	91,3	92,4	86,5	82,1	69,0	66,8	83,6	86,3	85,0	74,0	87,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,1	96,5	69,2	65,1	75,3	81,0	85,0	89,9	92,4	80,9	77,6	78,1	80,3	72,2	77,2

CQS: 78,7



## 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	$\Delta uv$
5603 K	83,2	16,8	81,2	96,9	78,7	72	0,330	0,337	-0,0045

## TM30 DETAILS

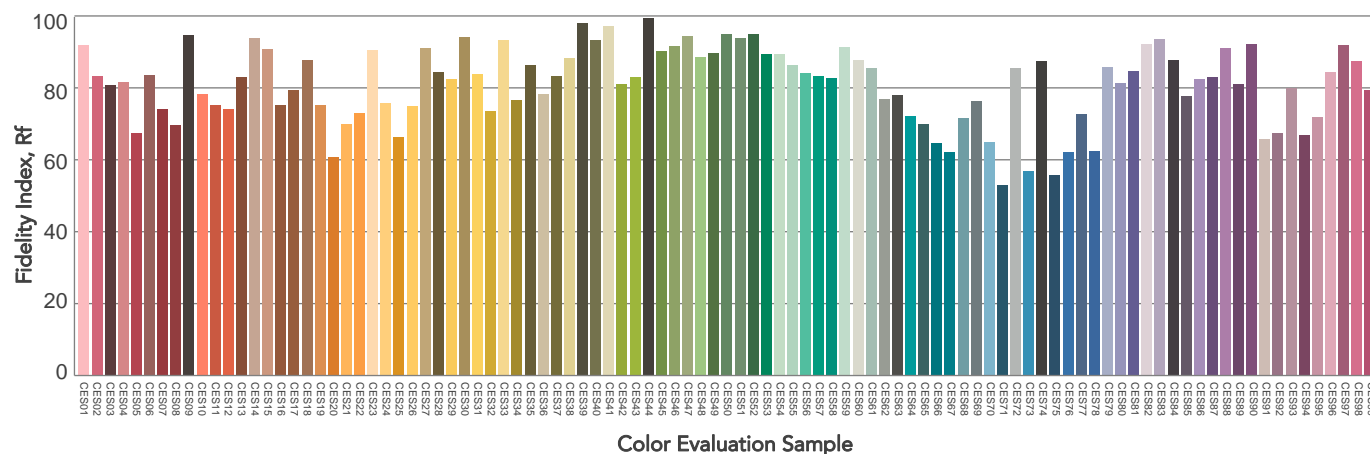
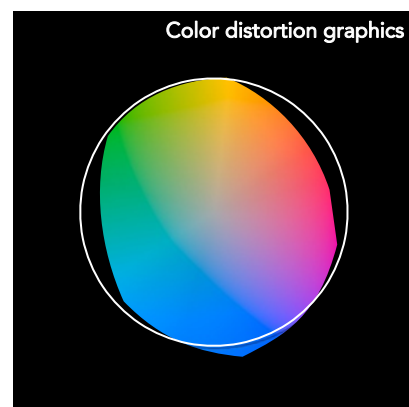
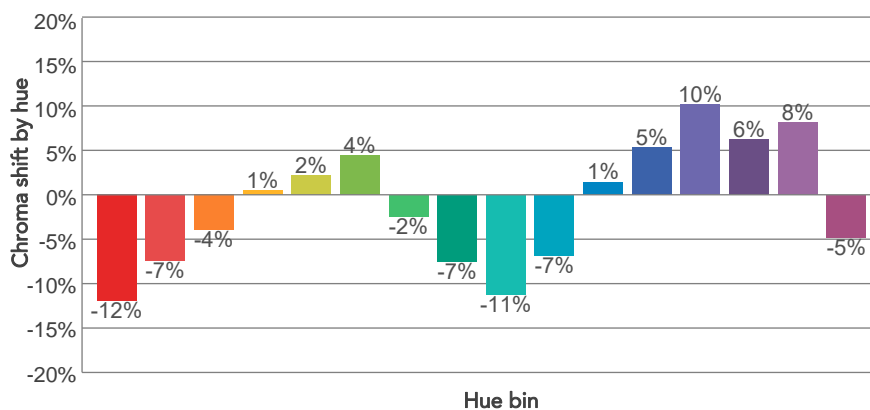
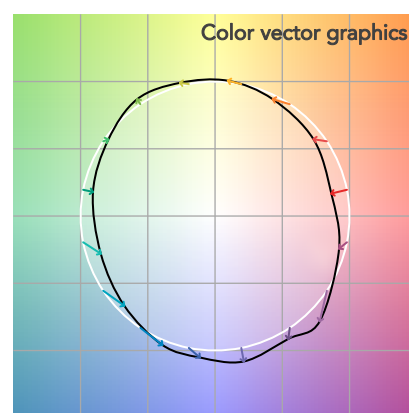
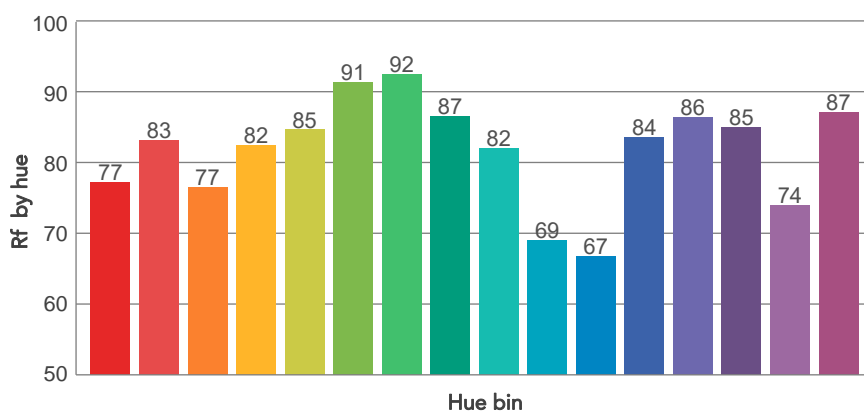
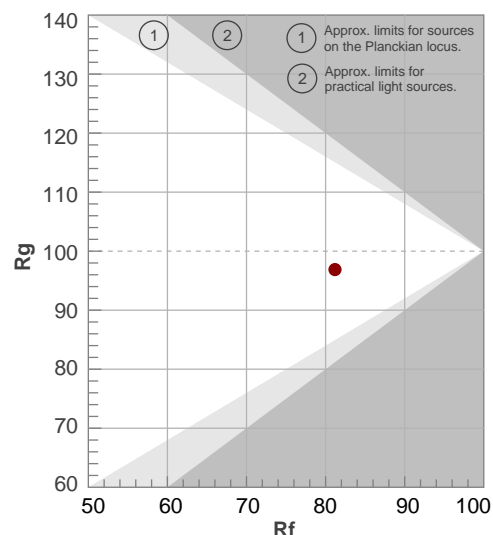
**Rf 81,2**

Fidelity index Rf

**Rg 96,9**

Gammut index

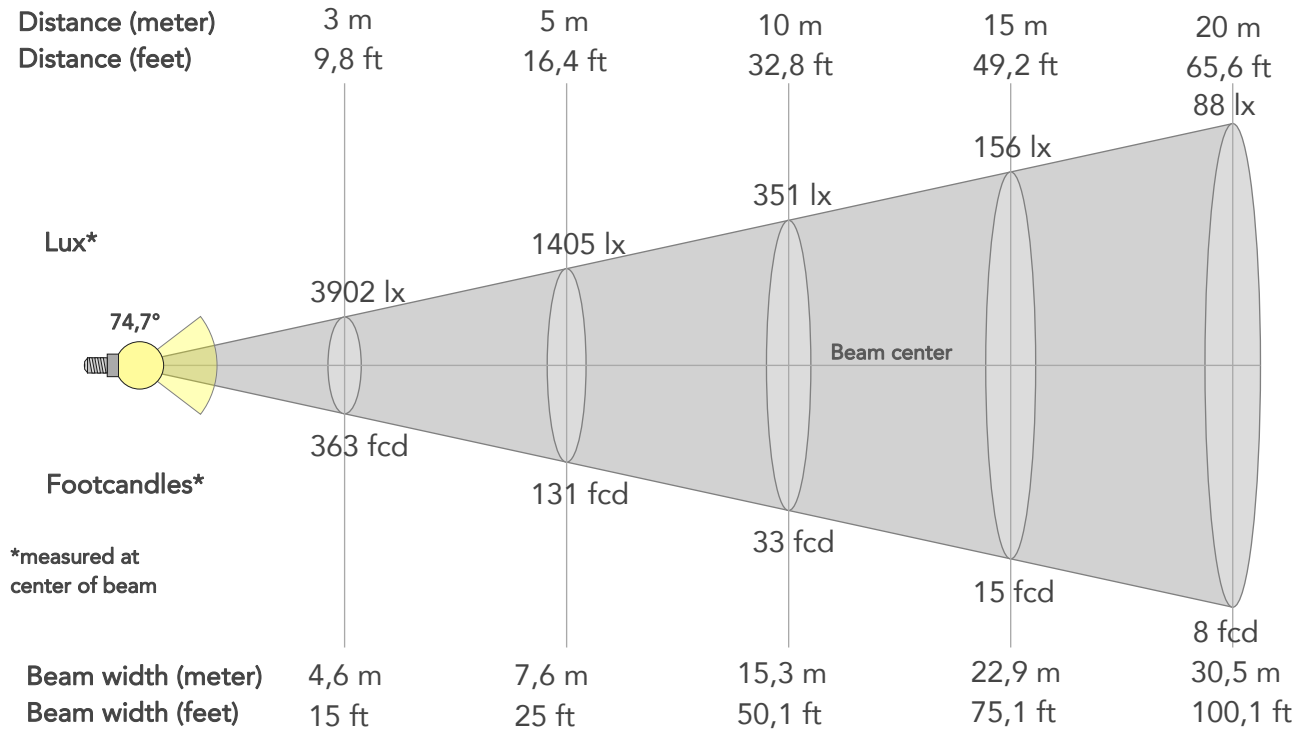
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	77	-12%	0%
2	83	-7%	7%
3	77	-4%	13%
4	82	1%	10%
5	85	2%	6%
6	91	4%	0%
7	92	-2%	-3%
8	87	-7%	0%
9	82	-11%	11%
10	69	-7%	18%
11	67	1%	21%
12	84	5%	9%
13	86	10%	0%
14	85	6%	-5%
15	74	8%	-22%
16	87	-5%	-6%



# BEAM DETAILS



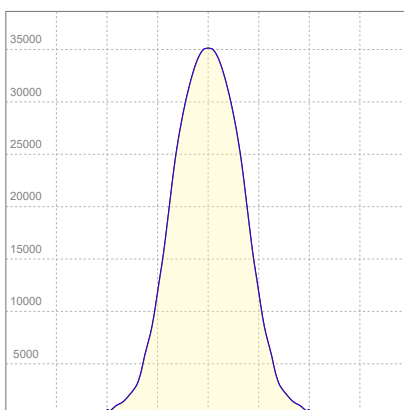
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,7°	123,5°	166,4°	90,8%	73,9%



## 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	35120lx	8780lx	3902lx	2195lx	1405lx	624lx	351lx	156lx	88lx	56lx	39lx	22lx	14lx
Footcand.	3263fcd	816fcd	363fcd	204fcd	131fcd	58fcd	33fcd	15fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	1,5m	3,1m	4,6m	6,1m	7,6m	11,4m	15,3m	22,9m	30,5m	38,2m	45,8m	61,1m	76,3m
Beam wid.	5ft	10,1ft	15ft	20ft	25ft	37,6ft	50,1ft	75,1ft	100,1ft	125,2ft	150,2ft	200,3ft	250,4ft

## LINEAR DISTRIBUTION DIAGRAM



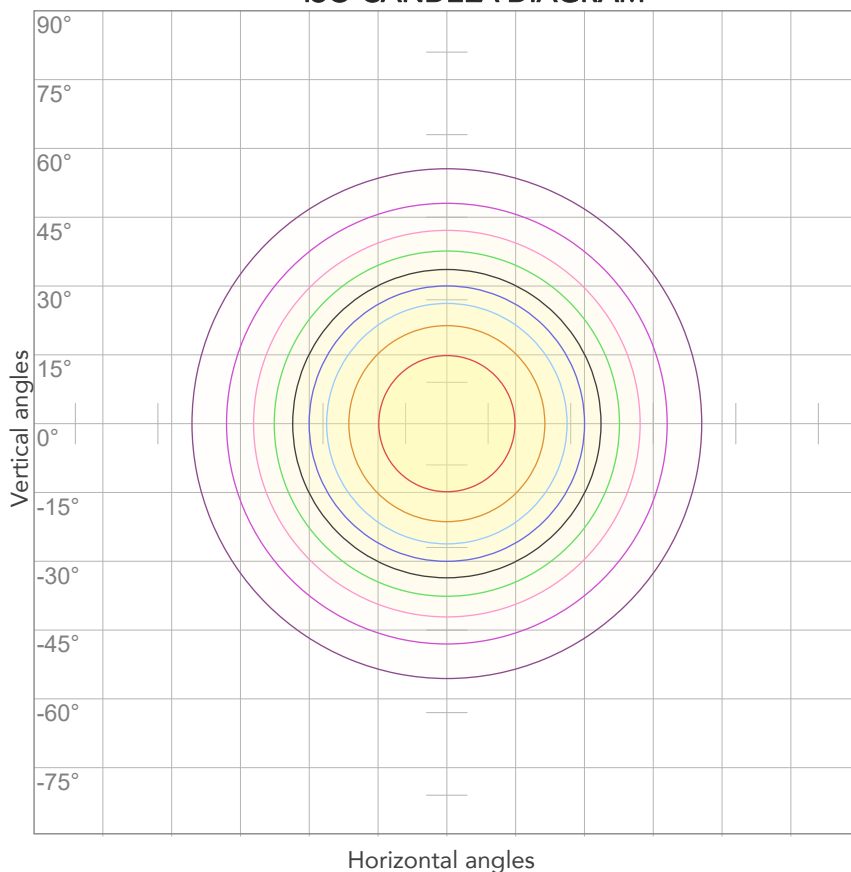
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	2,33A	521W	1,0	109lm/W



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



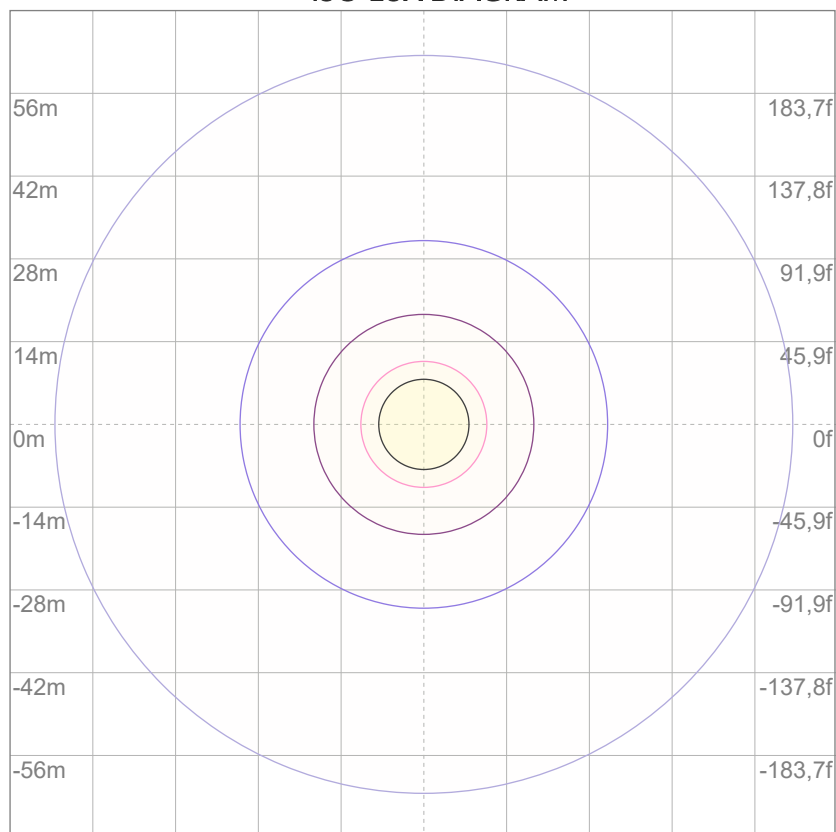
10%	3512 cd
20%	7024 cd
30%	10536 cd
40%	14048 cd
50%	17560 cd
60%	21072 cd
70%	24584 cd
80%	28096 cd

### Conditions:

Number of c-planes: 4

Candela at center: 35120 cd

## ISO LUX DIAGRAM



3%	10,5 lx
5%	17,6 lx
10%	35,1 lx
30%	105 lx
50%	176 lx

### Conditions:

Number of c-planes: 4

Lux at center: 351 lx

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



Total lumen output:

52977 lm

Peak candela output:

32444 cd

Light quality:

CRI: 96,3

Color temperature:

3204 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

INT Filter

Target:

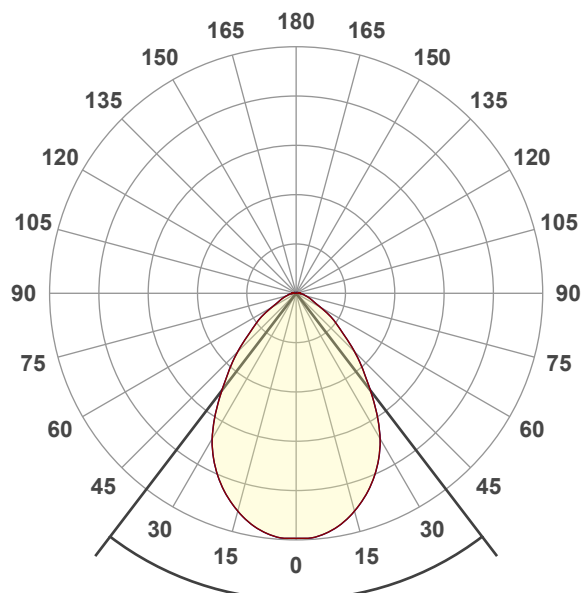
3200K - HQ

Operator:

Salvatore Giglio

Date and time:

10/09/2024 16:00:22

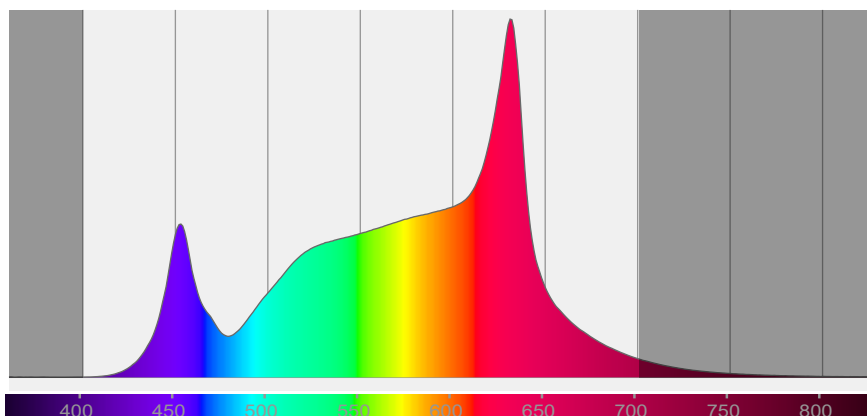


Beam angle 50%: 74,8°

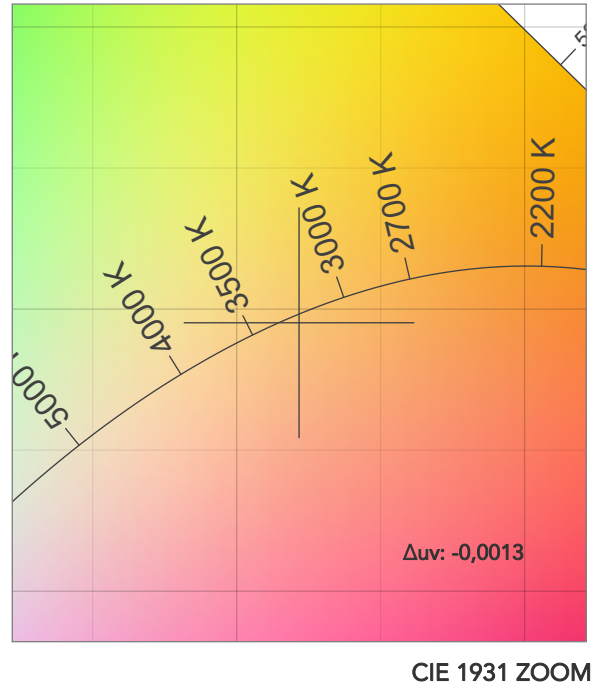
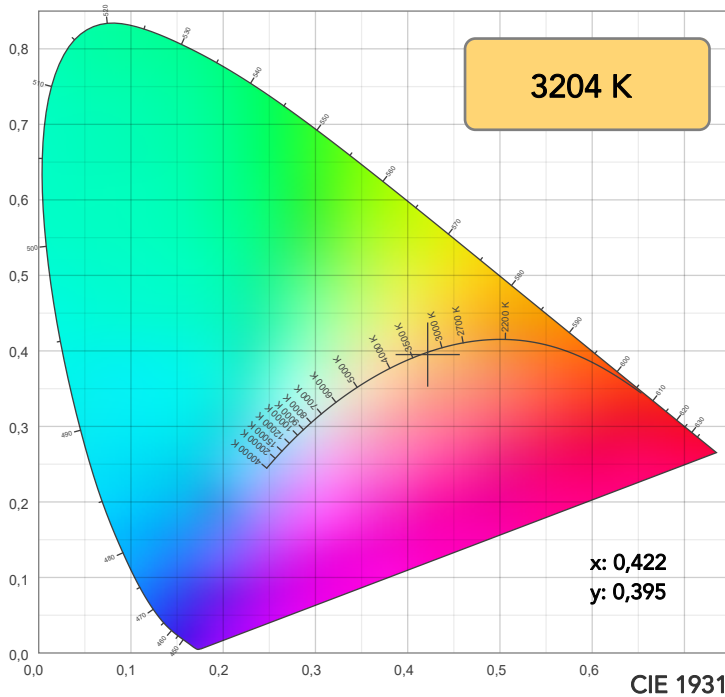
Field angle 10%: 123,3°

Cut off angle 2.5%: 166,4°

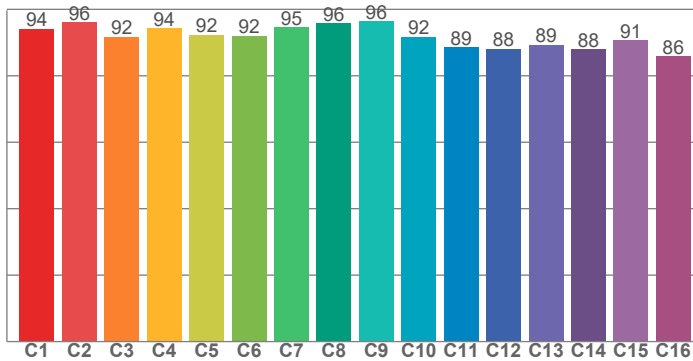
**Spectra**



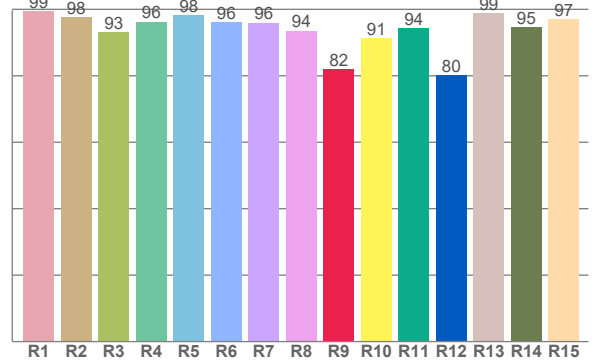
# COLOR DETAILS



TM30: 92,2



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
99,4	97,5	93,1	96,3	98,2	96,1	96,0	93,5	81,9	91,4	94,2	80,2	98,9	94,6	96,9

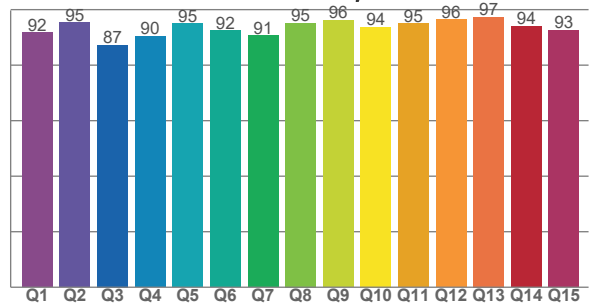
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	96,0	91,7	94,3	92,4	92,1	94,5	95,8	96,4	91,7	88,6	88,2	89,4	87,9	90,6	85,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,7	95,3	87,3	90,4	94,9	92,4	90,6	95,2	96,2	93,7	95,0	96,4	97,4	94,0	92,6

CQS: 92,9



## COLOR PARAMETERS

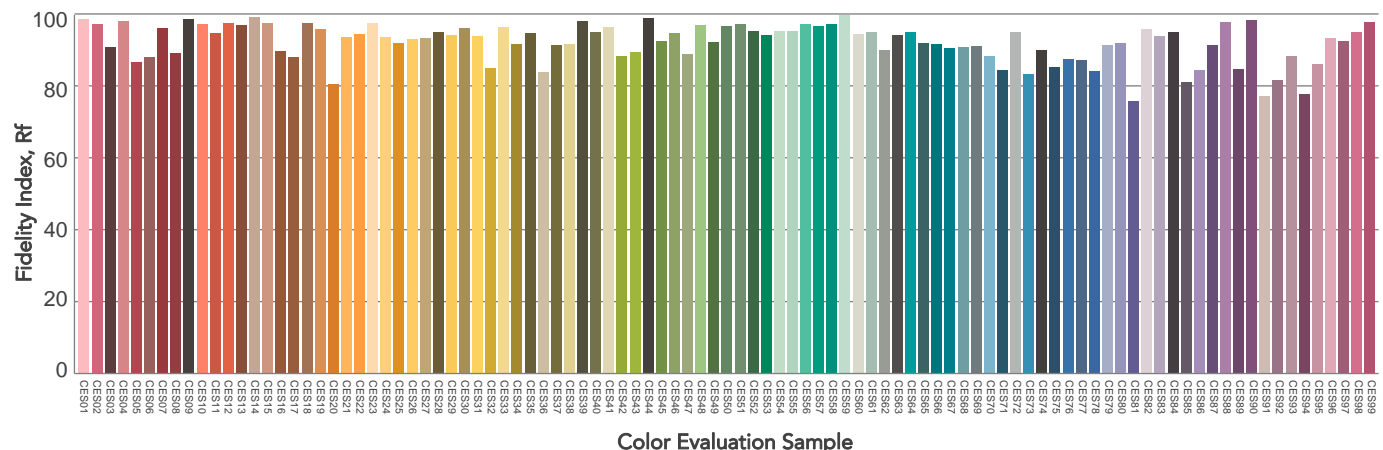
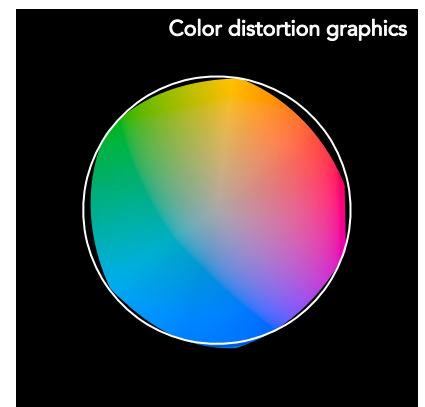
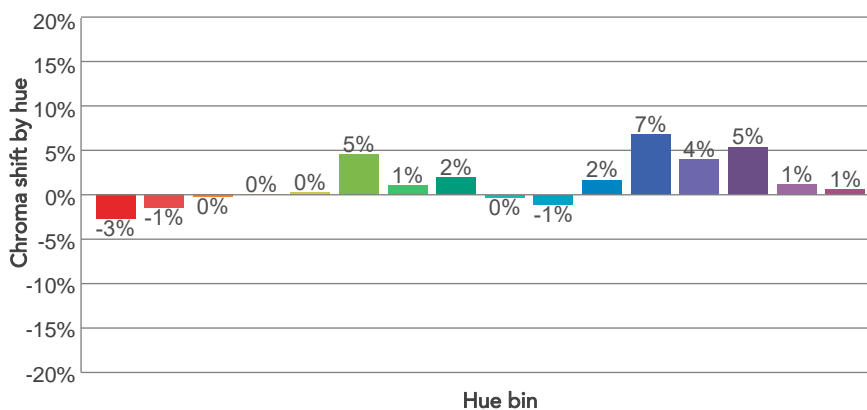
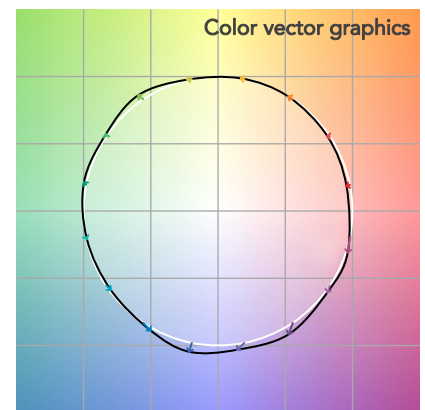
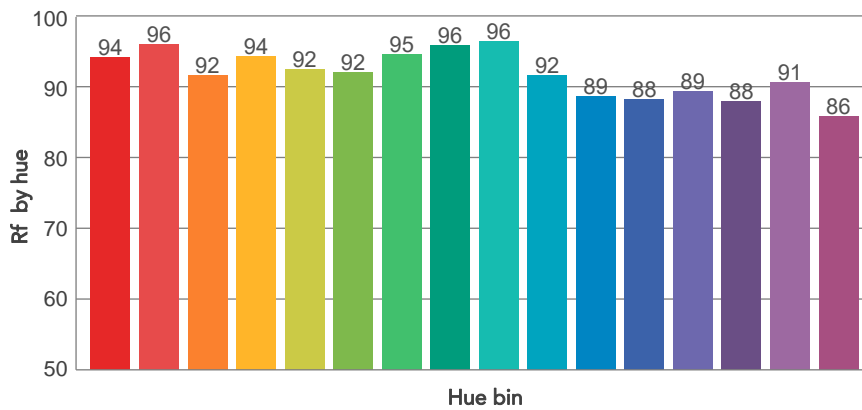
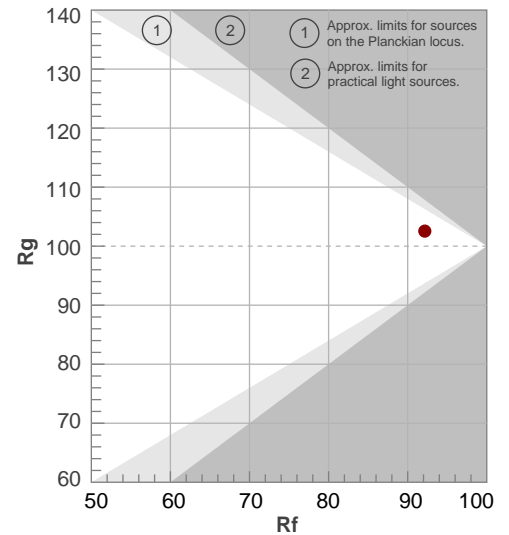
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
3204 K	96,3	81,9	92,2	102,5	92,9	87	0,422	0,395	-0,0013

# TM30 DETAILS

**Rf 92,2**  
Fidelity index Rf

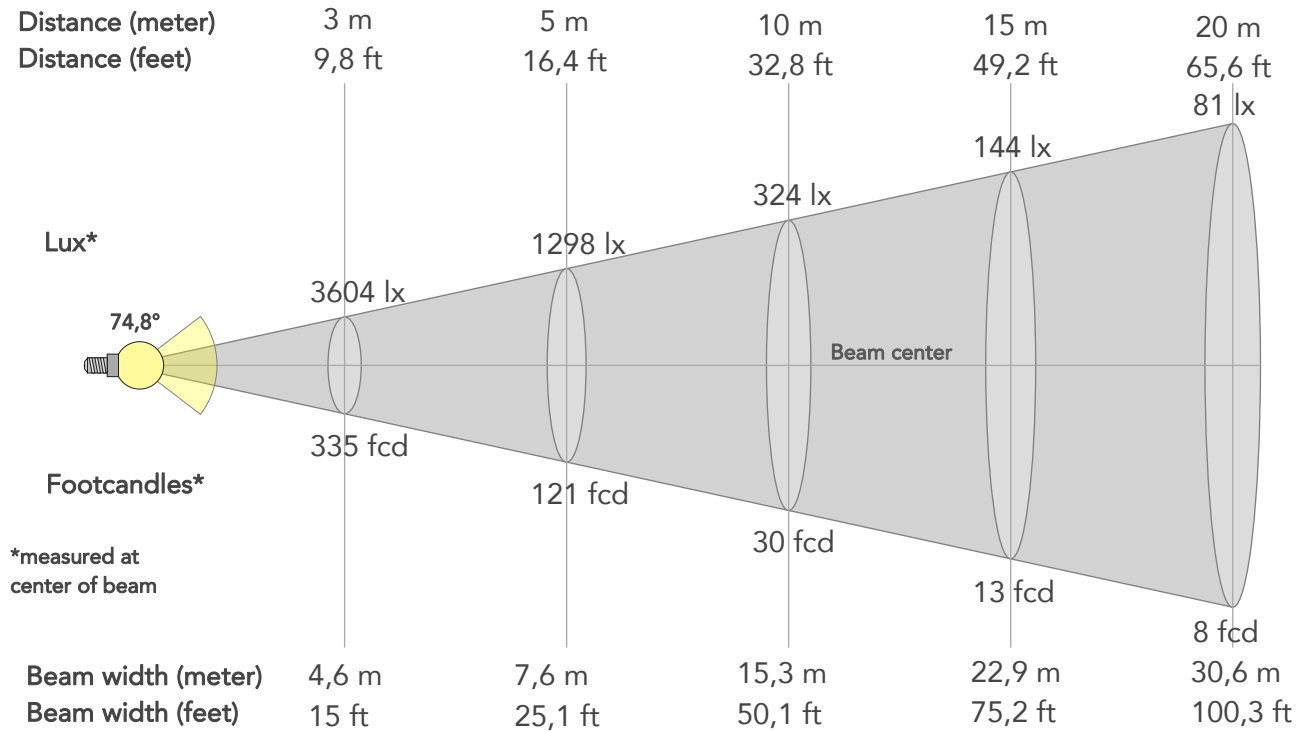
**Rg 102,5**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	96	-1%	1%
3	92	0%	4%
4	94	0%	3%
5	92	0%	3%
6	92	5%	2%
7	95	1%	-1%
8	96	2%	-2%
9	96	0%	1%
10	92	-1%	4%
11	89	2%	8%
12	88	7%	-1%
13	89	4%	-6%
14	88	5%	-7%
15	91	1%	-5%
16	86	1%	-11%



# BEAM DETAILS

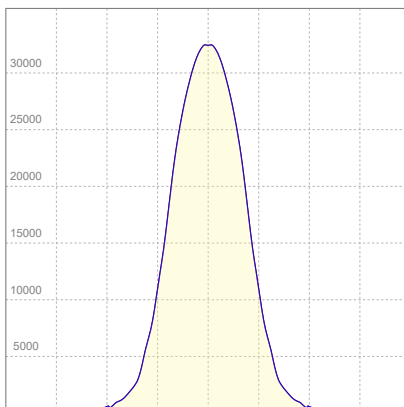
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,8°	123,3°	166,4°	90,6%	73,6%



## 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	32438lx	8109lx	3604lx	2027lx	1298lx	577lx	324lx	144lx	81lx	52lx	36lx	20lx	13lx
Footcand.	3014fcd	753fcd	335fcd	188fcd	121fcd	54fcd	30fcd	13fcd	8fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	1,5m	3,1m	4,6m	6,1m	7,6m	11,5m	15,3m	22,9m	30,6m	38,2m	45,9m	61,2m	76,4m
Beam wid.	5ft	10,1ft	15ft	20ft	25,1ft	37,6ft	50,1ft	75,2ft	100,3ft	125,4ft	150,4ft	200,6ft	250,7ft

## LINEAR DISTRIBUTION DIAGRAM

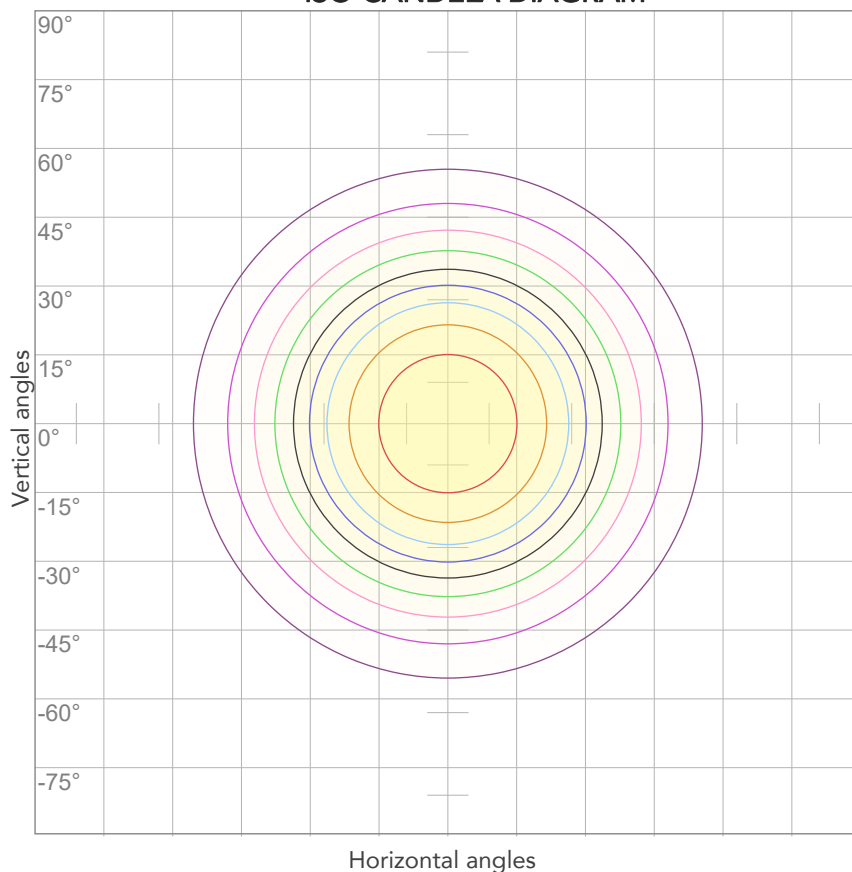


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	2,44A	546W	1,0	97lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



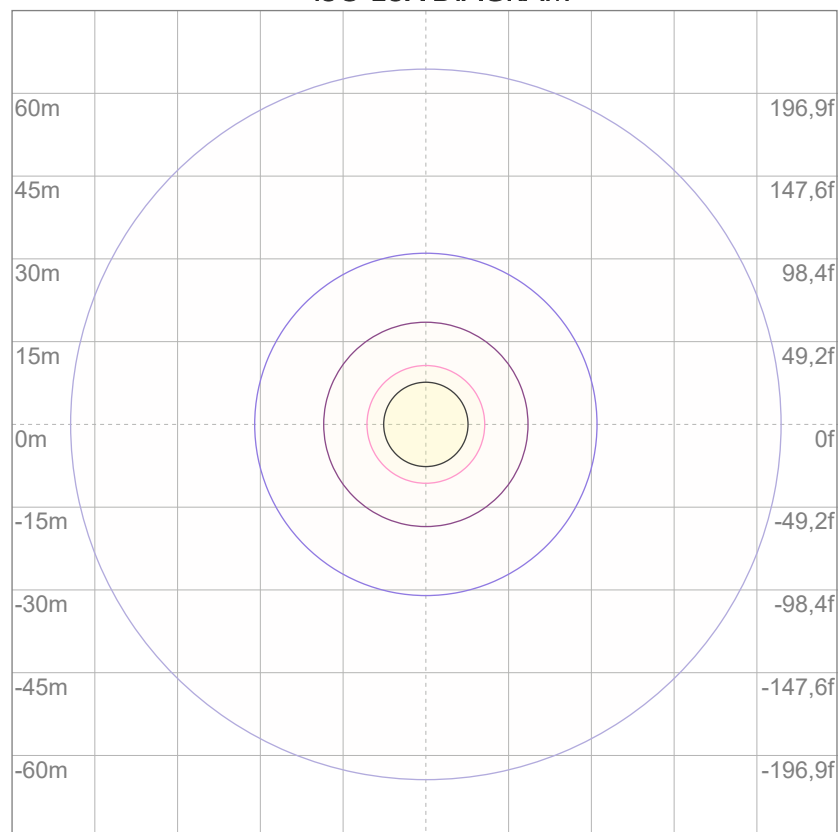
10%	3244 cd
20%	6488 cd
30%	9731 cd
40%	12975 cd
50%	16219 cd
60%	19463 cd
70%	22706 cd
80%	25950 cd

### Conditions:

Number of c-planes: 4

Candela at center: 32438 cd

## ISO LUX DIAGRAM



3%	9,73 lx
5%	16,2 lx
10%	32,4 lx
30%	97,3 lx
50%	162 lx

### Conditions:

Number of c-planes: 4

Lux at center: 324 lx

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



Total lumen output:

48887 lm

Peak candela output:

29899 cd

Light quality:

CRI: 96,8

Color temperature:

5687 K

**PRODUCT NAME:**

ECLPANELIP SOFT 2X1

**MEASURAMENT CONDITIONS:**

Beam angle:

INT Filter

Target:

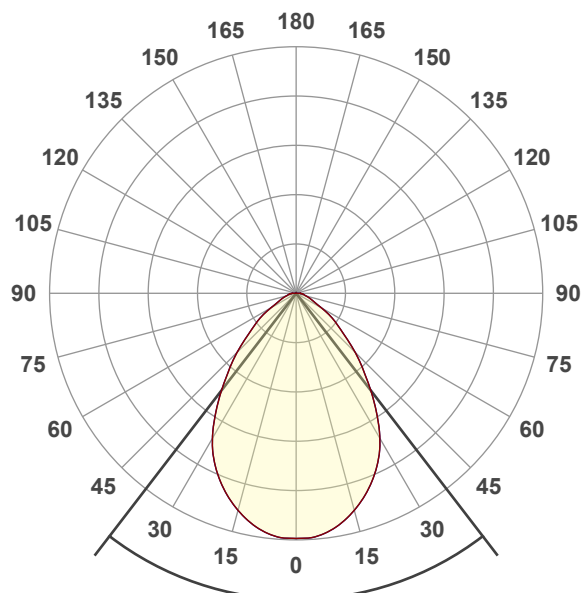
5600K - HQ

Operator:

Salvatore Giglio

Date and time:

10/09/2024 15:51:36

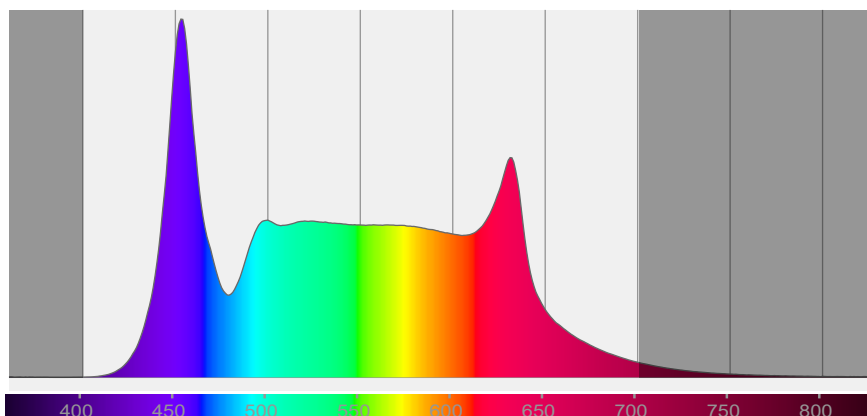


Beam angle 50%: 75,1°

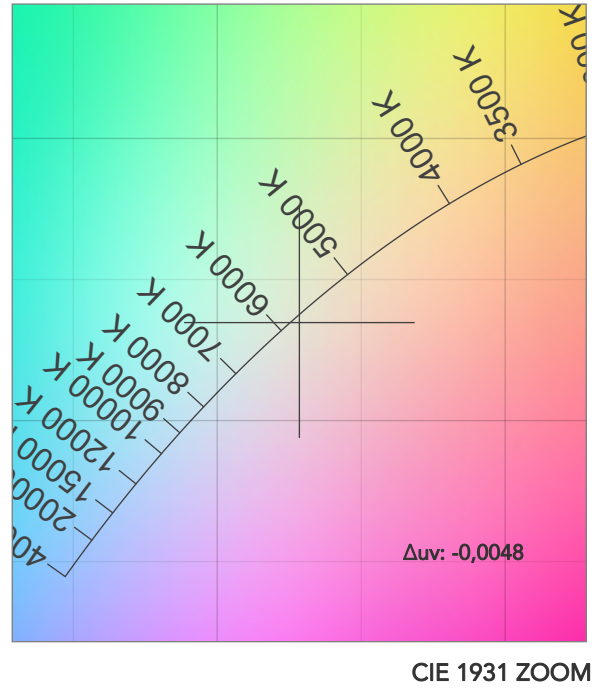
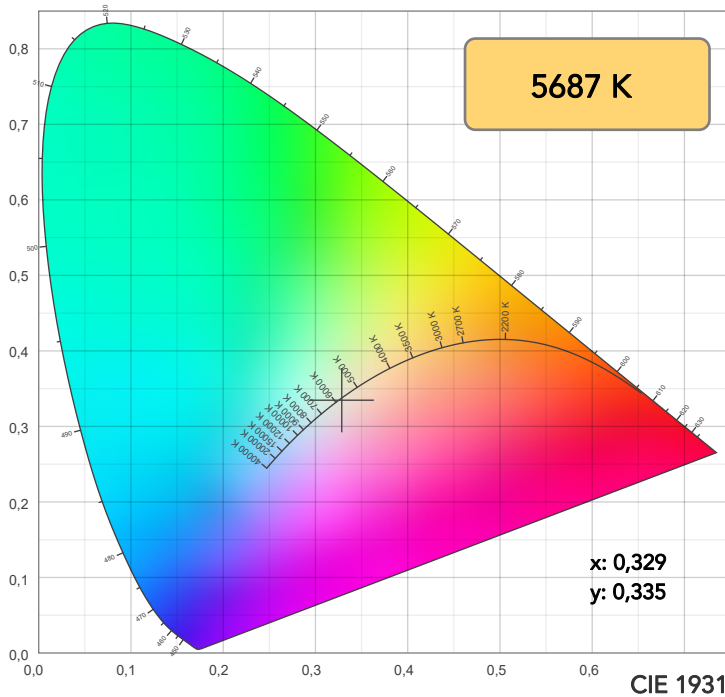
Field angle 10%: 123,5°

Cut off angle 2.5%: 167,3°

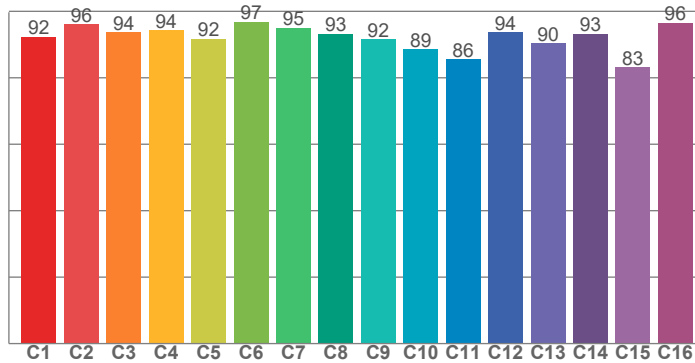
**Spectra**



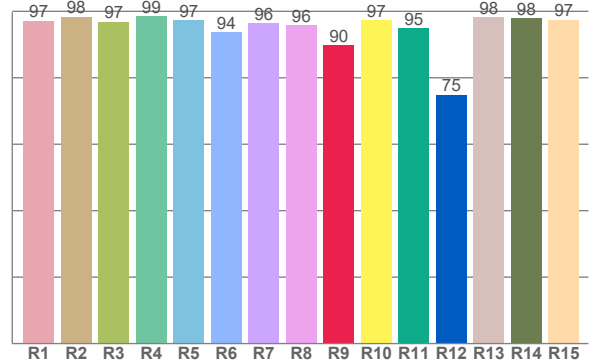
## COLOR DETAILS



TM30: 92,1



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
97,2	98,3	96,9	98,5	97,3	93,7	96,4	95,7	89,8	97,3	94,9	74,9	98,2	97,9	97,4

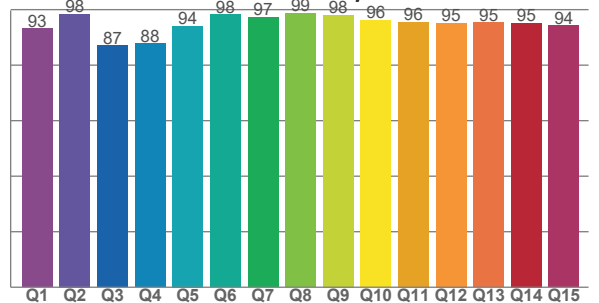
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,3	96,1	93,6	94,3	91,6	96,8	95,0	93,2	91,6	88,6	85,6	93,7	90,3	93,2	83,2	96,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,2	98,5	87,1	87,8	94,1	98,2	97,3	98,7	98,0	96,1	95,6	95,2	95,4	95,2	94,3

CQS: 94,0



## 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	$\Delta uv$
5687 K	96,8	89,8	92,1	100,8	94,0	94	0,329	0,335	-0,0048



## TM30 DETAILS

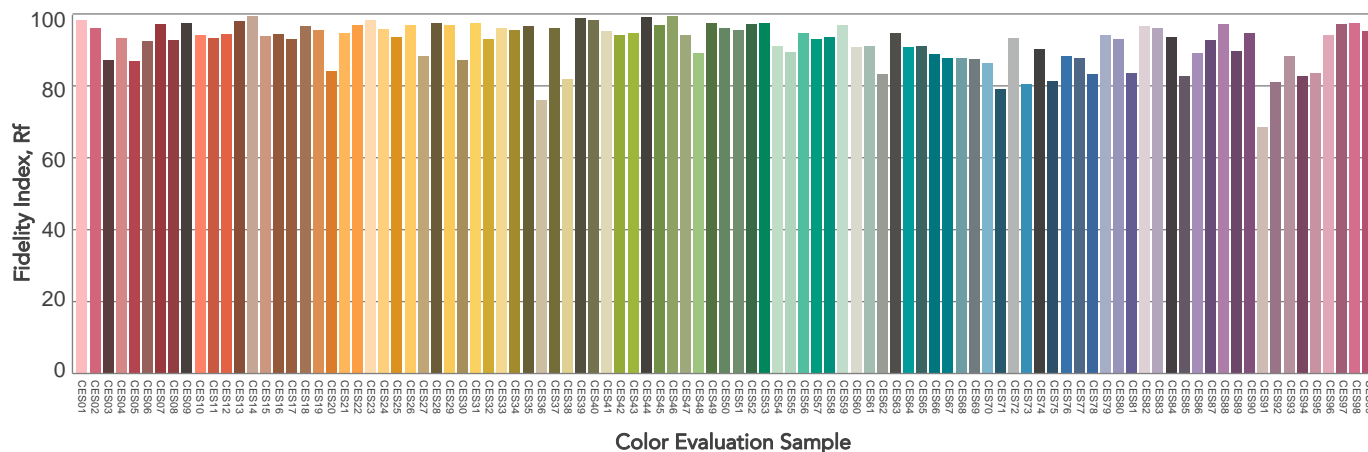
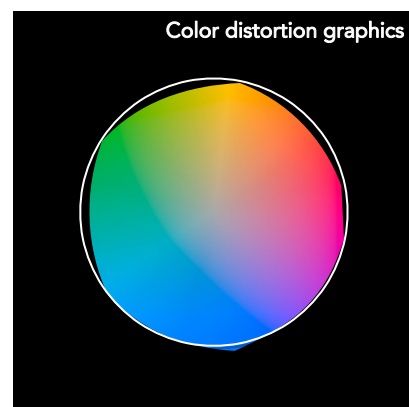
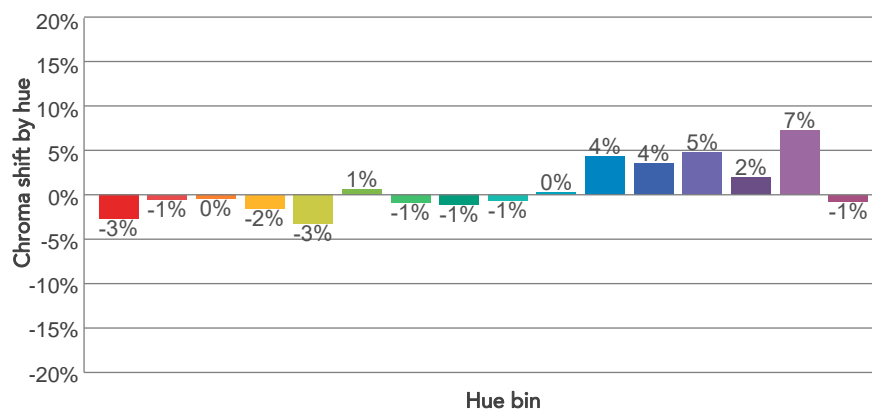
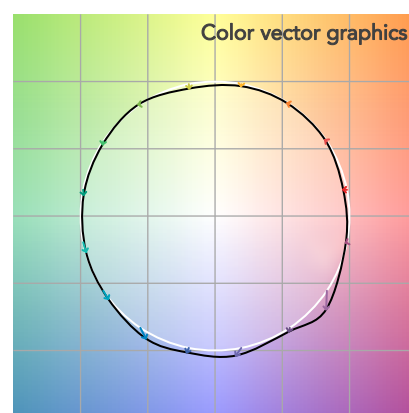
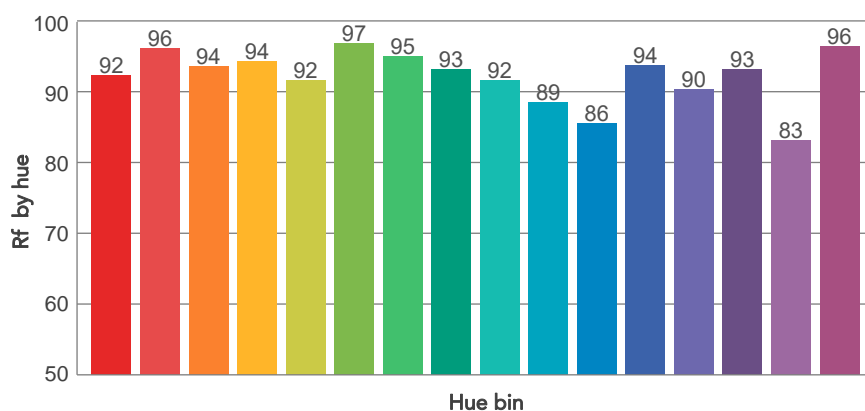
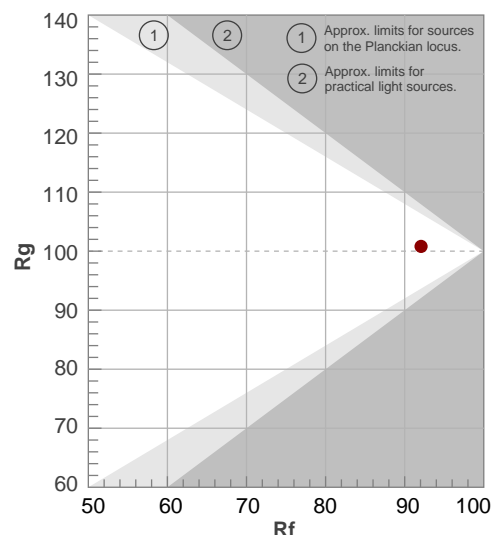
**Rf 92,1**

Fidelity index Rf

**Rg 100,8**

Gammut index

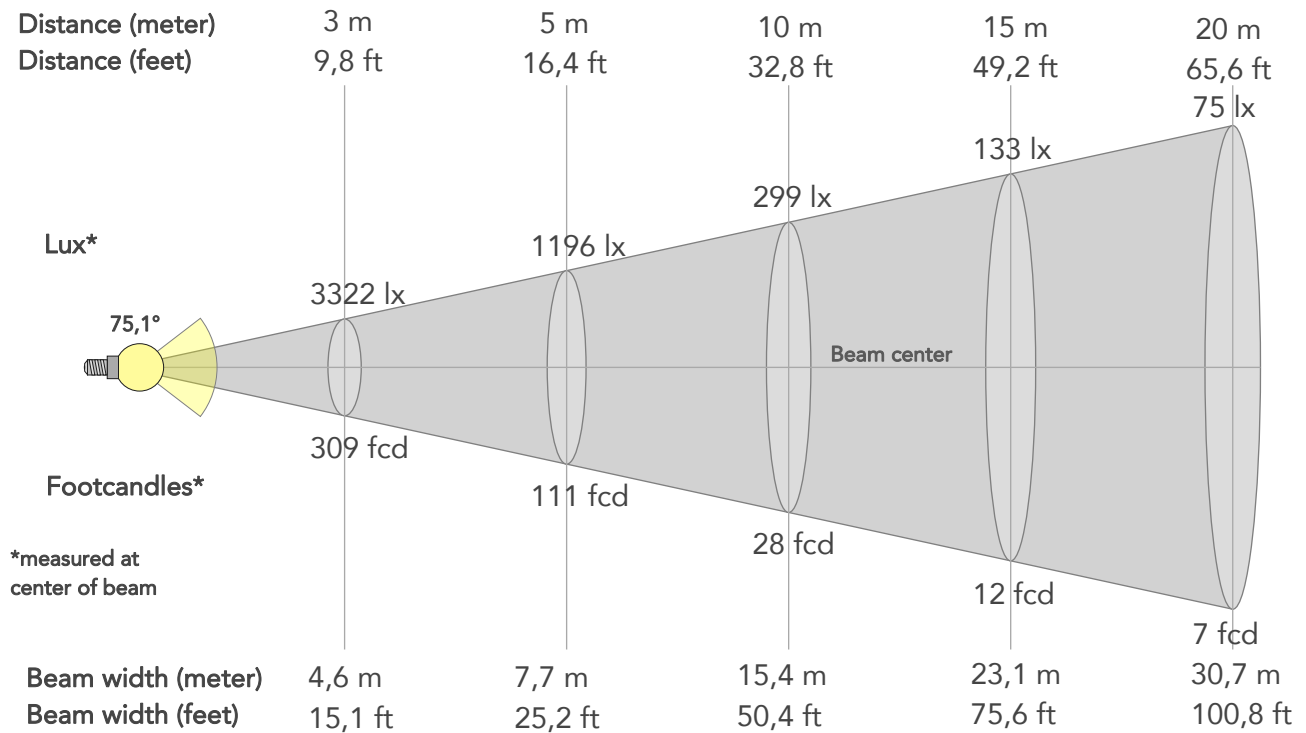
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	1%
2	96	-1%	2%
3	94	0%	2%
4	94	-2%	0%
5	92	-3%	0%
6	97	1%	1%
7	95	-1%	2%
8	93	-1%	4%
9	92	-1%	7%
10	89	0%	7%
11	86	4%	8%
12	94	4%	-1%
13	90	5%	-5%
14	93	2%	-2%
15	83	7%	-12%
16	96	-1%	0%



# BEAM DETAILS



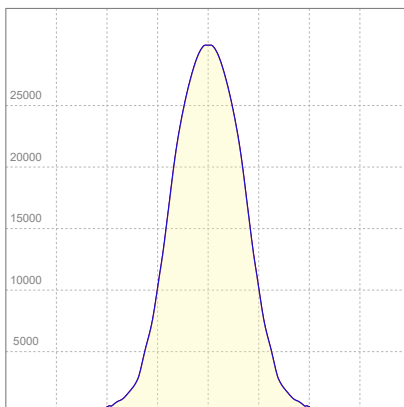
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
75,1°	123,5°	167,3°	90,7%	73,6%



## 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	29899lx	7475lx	3322lx	1869lx	1196lx	532lx	299lx	133lx	75lx	48lx	33lx	19lx	12lx
Footcand.	2778fcd	694fcd	309fcd	174fcd	111fcd	49fcd	28fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	1,5m	3,1m	4,6m	6,1m	7,7m	11,5m	15,4m	23,1m	30,7m	38,4m	46,1m	61,5m	76,8m
Beam wid.	5,1ft	10,1ft	15,1ft	20,1ft	25,2ft	37,8ft	50,4ft	75,6ft	100,8ft	126ft	151,2ft	201,6ft	252ft

## LINEAR DISTRIBUTION DIAGRAM

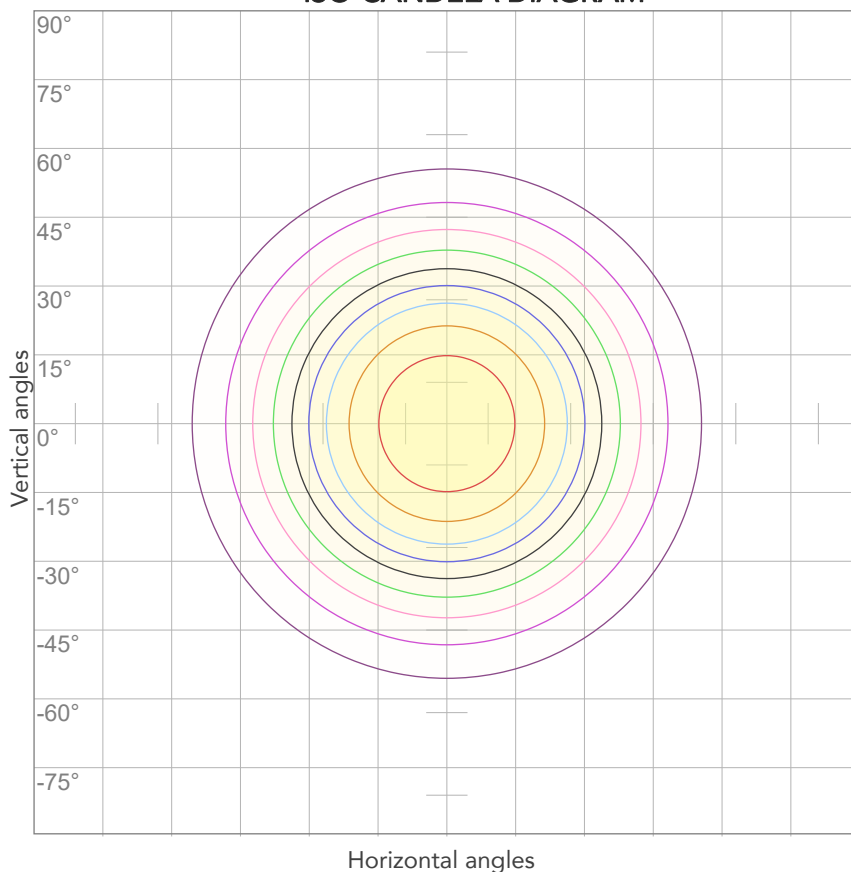


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	2,47A	553W	1,0	88lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



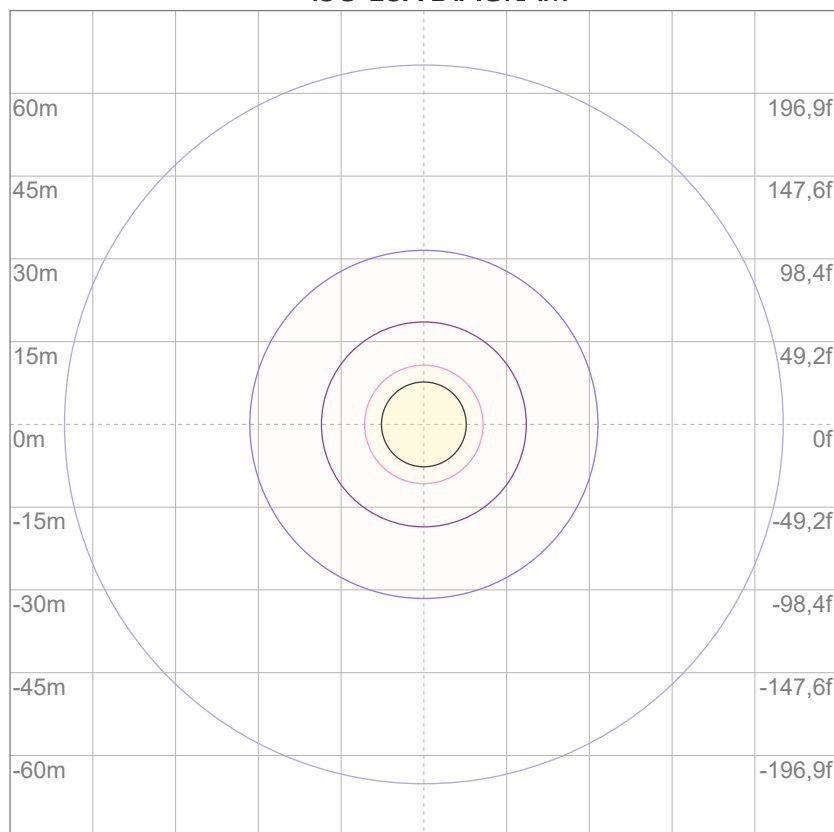
10%	2990 cd
20%	5980 cd
30%	8970 cd
40%	11960 cd
50%	14949 cd
60%	17939 cd
70%	20929 cd
80%	23919 cd

### Conditions:

Number of c-planes: 4

Candela at center: 29899 cd

## ISO LUX DIAGRAM



3%	8,97 lx
5%	14,9 lx
10%	29,9 lx
30%	89,7 lx
50%	149 lx

### Conditions:

Number of c-planes: 4

Lux at center: 299 lx

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