

# Photometric Test Report



## ECLMINI (DAT/CC)

ZOOMABLE WASH LENS 15°-30°/25°-50°

18W White LED Gallery light, with data control  
(DMX, DALI T6, Knob-dimming)

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## TESTING PROCESS

Prolights has its own optical testing laboratory in order to provide accurate photometric reports for its lighting products. The testing laboratory contains certain variety of precise lighting measurement systems that ensure an optimal reading of all the characteristic parameters of the lighting devices. All measurements are made at a controlled room temperature of 20°C without any external light sources. This photometric report is obtained through the data measured by a high precision measurement system and analyzed by a dedicate software.

### Prolights measurement instrument

Prolights measurement instrument is a complete measurement system for any light source. It's equipped with two-axis goniometer, that enables to measure the full 3D distribution field of the light source. This instrument measures the light intensity, the beam angle and the most significative colors parameters, like color temperature, spectral distribution, CRI, CQS, TM-30 with a very high accuracy rate.

**Please Note:** All measurements are made with light source at operating temperature. Before starting the measurement, the instrument analyzes the process of the light source during the heating phase. The measuring process of all the parameters begins only when the light emission is stable, that is with a variation of less than 0.5% in a 15 minutes time frame.

### Prolights measurement software

The software provides user friendly interface for the operator who does the measurements, and it also analyzes and processes all the collected data by the instrument. With this software it is possible to see the measured data in real-time and it is possible to examine all the measured data and graphics afterwards as well. All information is collected in a specific Prolights template, and the software creates also IES and LDT files, which are widely used to transfer the photometric data, and to develop lighting system.

Additionally, the fixtures are rechecked using various hand-held instruments like Sekonic C-700 and Gossen Mavospec Base, this is done to ensure, that the data in the photometric report are as accurate as possible.



Total lumen output:

1032 lm

Peak candela output:

3627 cd

Light quality:

CRI: 92,4

Color temperature:

2769 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wash 1530 Max Zoom

Target:

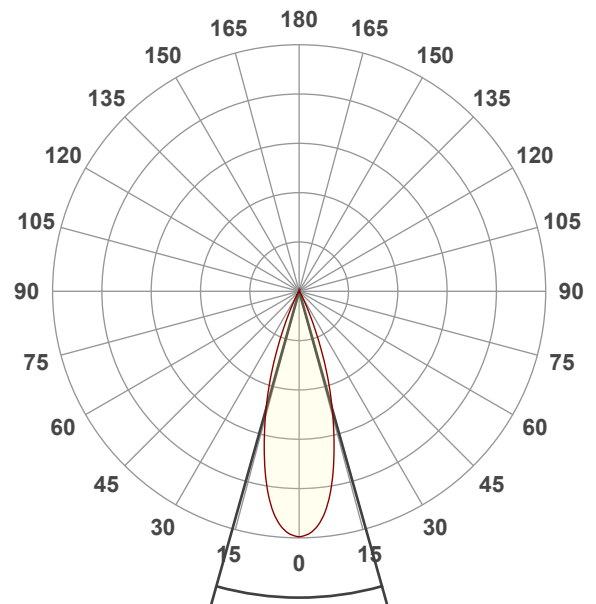
2700K

Operator:

Paolo Carvone

Date and time:

27/07/2022 13:14:15

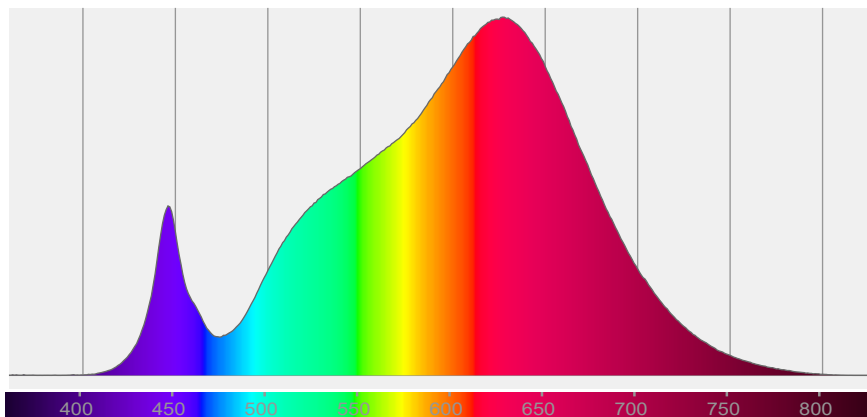


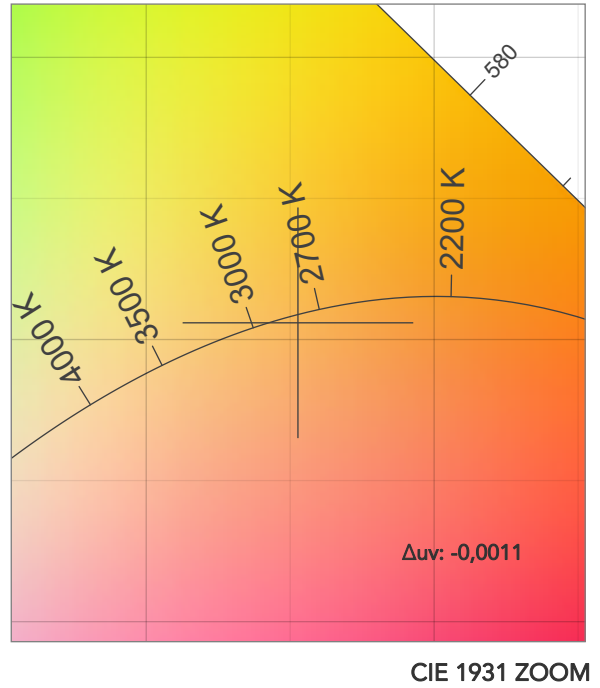
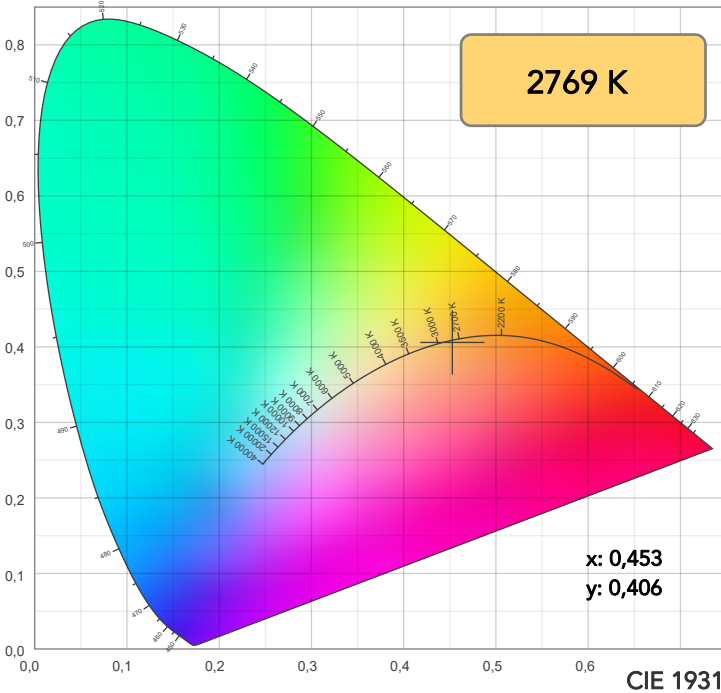
Beam angle 50%: 31,4°

Field angle 10%: 49,6°

Cut off angle 2.5%: 59,7°

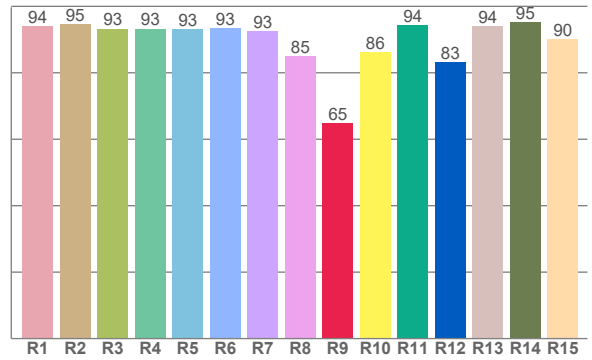
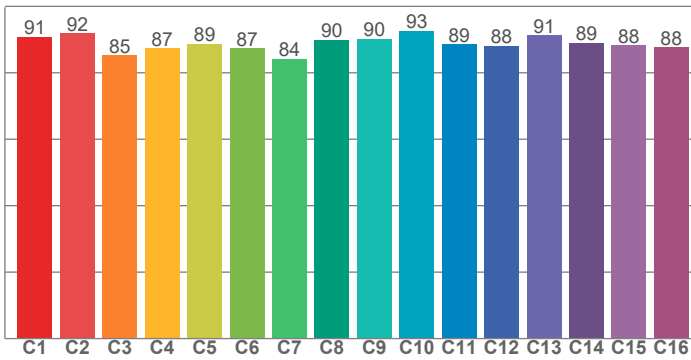
Spectra





TM30: 89,1

CRI: 92,4 (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
94,0	94,5	93,3	93,3	93,1	93,5	92,6	85,0	64,9	86,1	94,3	83,1	94,0	95,2	90,2

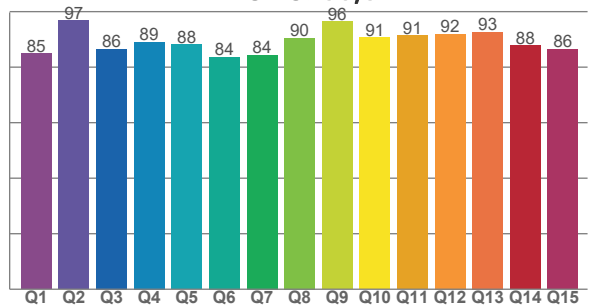
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,8	91,8	85,3	87,4	88,6	87,3	84,1	89,9	90,3	92,7	88,6	88,1	91,2	89,0	88,2	87,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84,9	96,7	86,5	89,0	88,2	83,7	84,4	90,5	96,4	90,6	91,4	91,9	92,7	87,8	86,4

CQS: 88,6



COLOR PARAMETERS

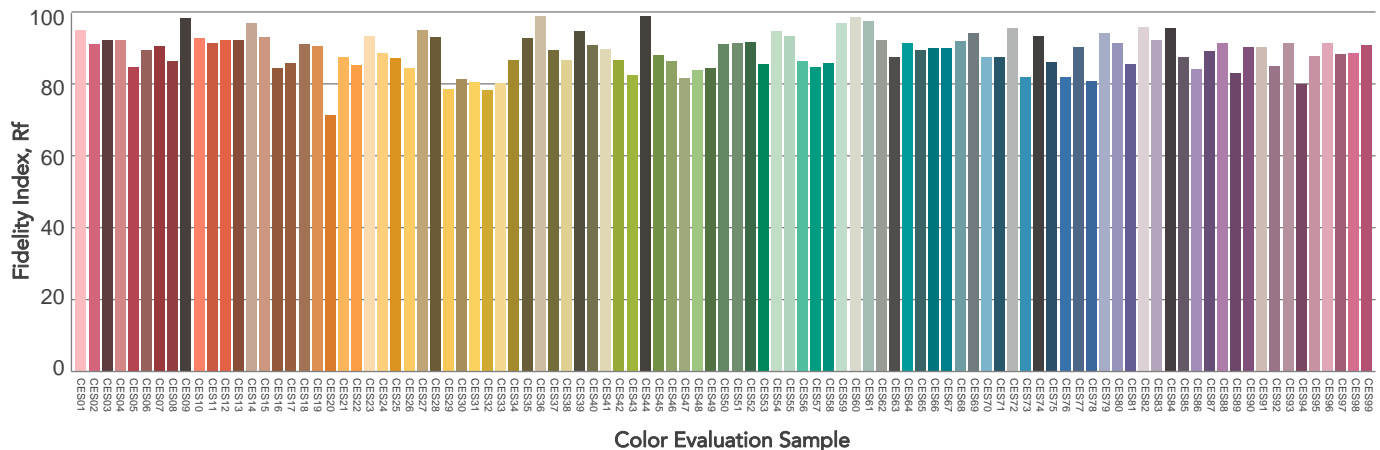
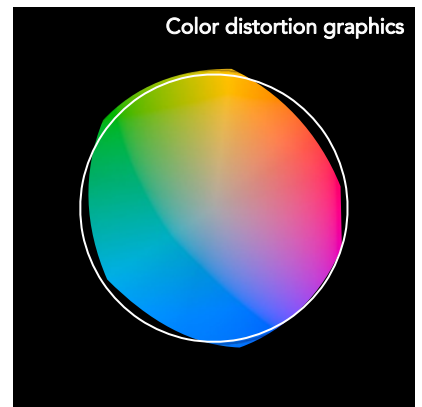
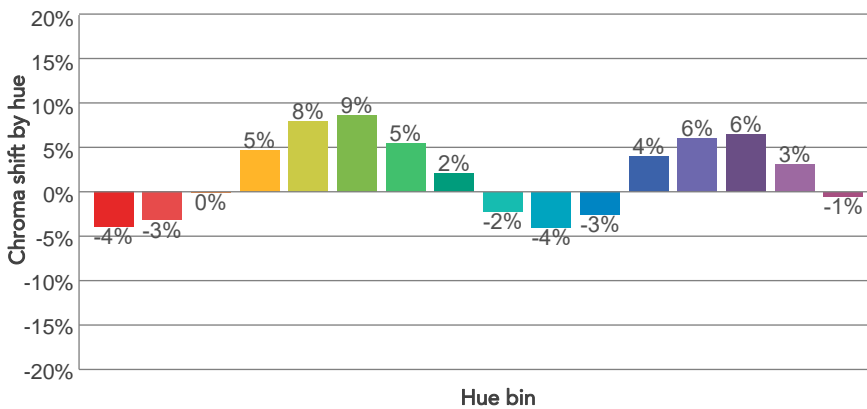
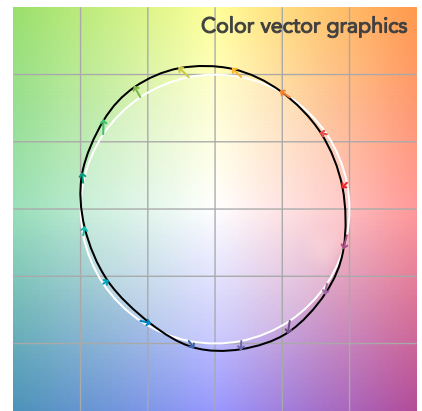
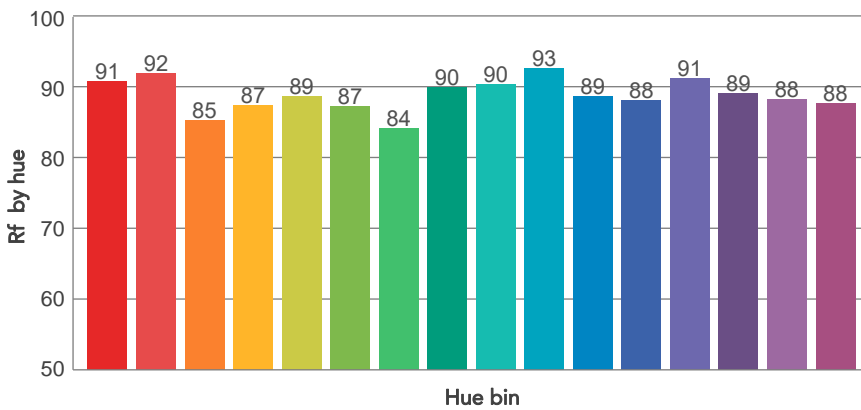
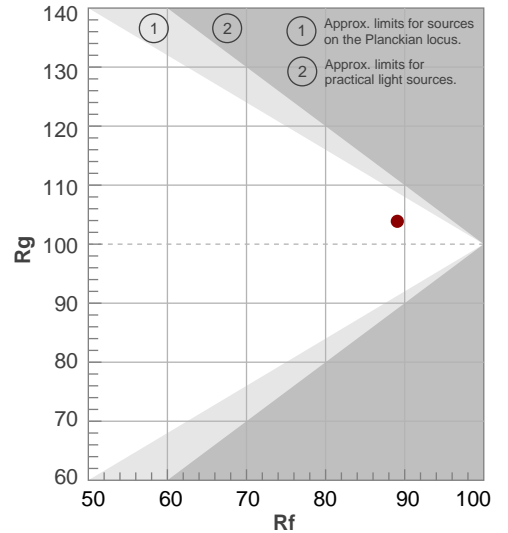
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2769 K	92,4	64,9	89,1	103,9	88,6	83	0,453	0,406	-0,0011

# TM30 DETAILS

**Rf 89,1**  
Fidelity index Rf

**Rg 103,9**  
Gammut index

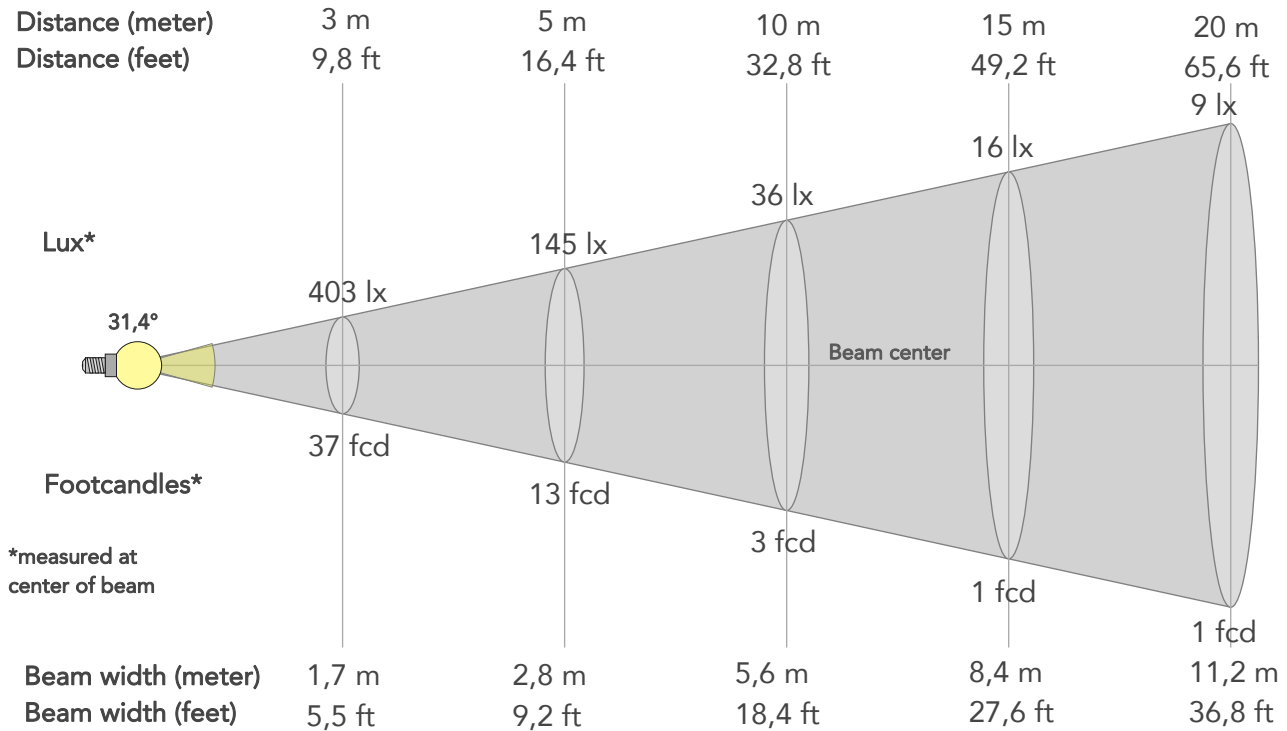
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-3%
2	92	-3%	3%
3	85	0%	8%
4	87	5%	7%
5	89	8%	6%
6	87	9%	-1%
7	84	5%	-9%
8	90	2%	-6%
9	90	-2%	-5%
10	93	-4%	0%
11	89	-3%	7%
12	88	4%	4%
13	91	6%	-1%
14	89	6%	-6%
15	88	3%	-7%
16	88	-1%	-10%



# BEAM DETAILS



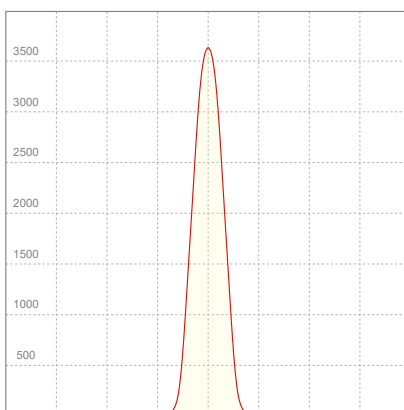
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,4°	49,6°	59,7°	100,0%	100,0%



## 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	3627lx	907lx	403lx	227lx	145lx	64lx	36lx	16lx	9lx	6lx	4lx	2lx	1lx
Footcand.	337fcd	84fcd	37fcd	21fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,2m	5,6m	8,4m	11,2m	14m	16,8m	22,5m	28,1m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,2ft	13,8ft	18,4ft	27,6ft	36,8ft	46ft	55,3ft	73,7ft	92,1ft

## LINEAR DISTRIBUTION DIAGRAM

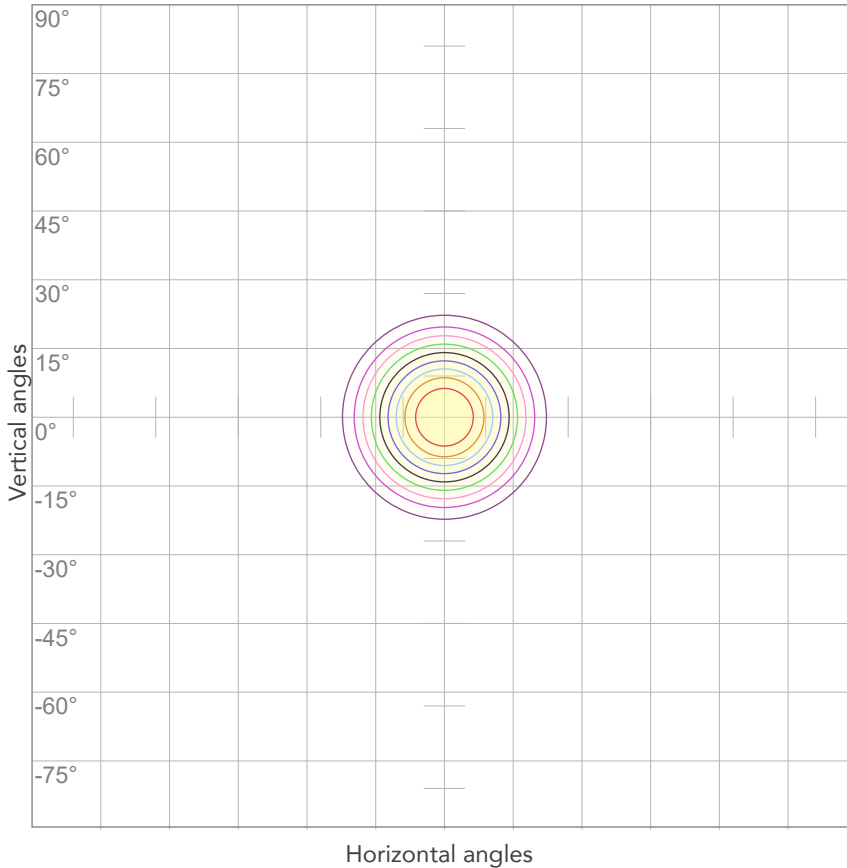


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,103A	20,6W	50lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



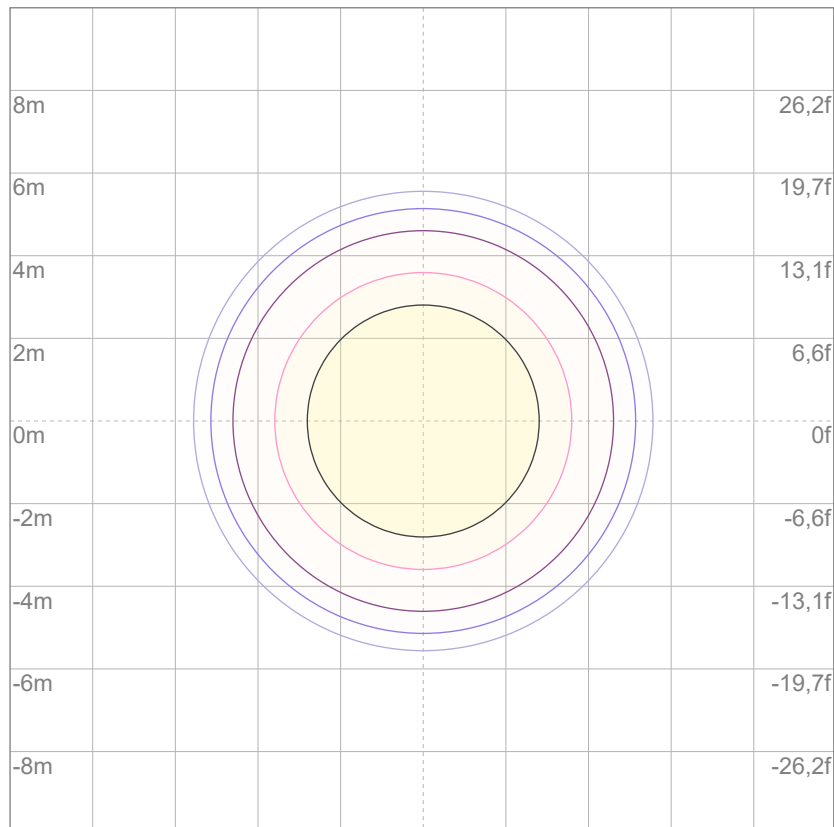
10%	363 cd
20%	725 cd
30%	1088 cd
40%	1451 cd
50%	1813 cd
60%	2176 cd
70%	2539 cd
80%	2901 cd

Conditions:

Number of c-planes: 2

Candela at center: 3627 cd

## ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 36,3 lx

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





Total lumen output:

704 lm

Peak candela output:

10156 cd

Light quality:

CRI: 92,7

Color temperature:

2756 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wash 1530 Min Zoom

Target:

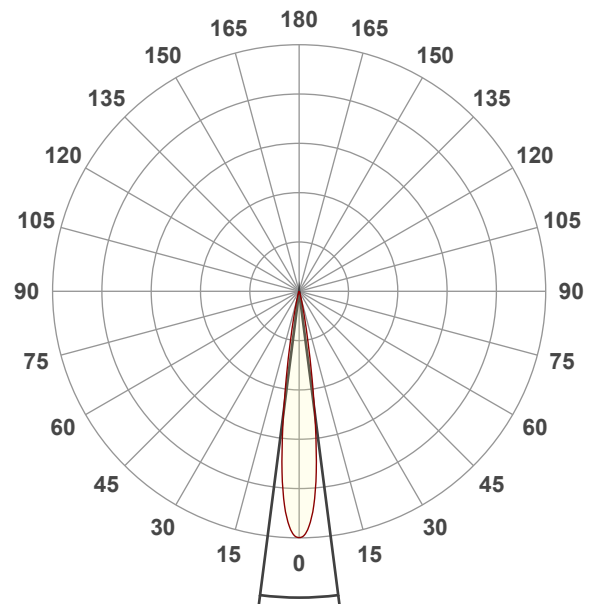
2700K

Operator:

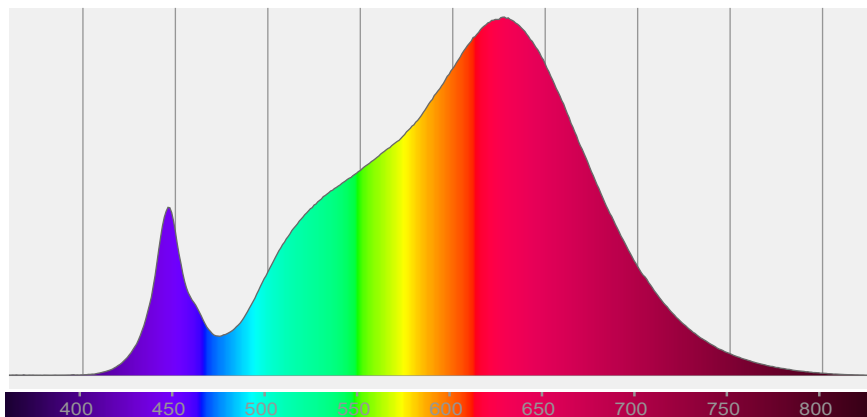
Paolo Carvone

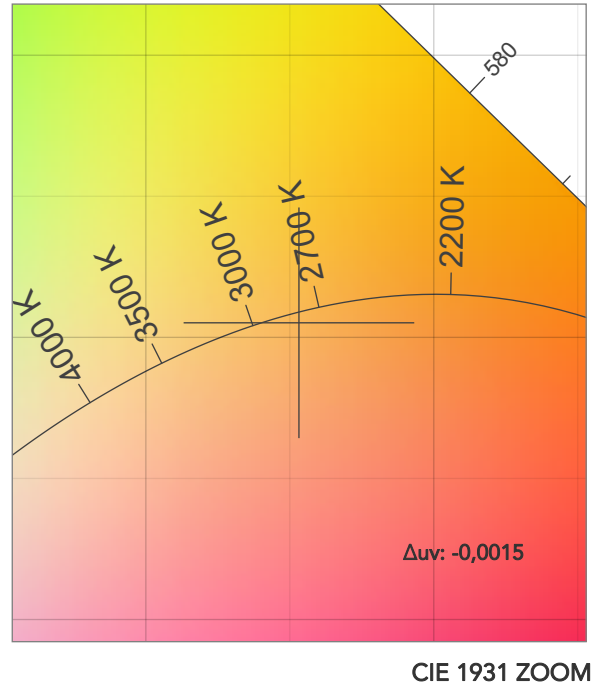
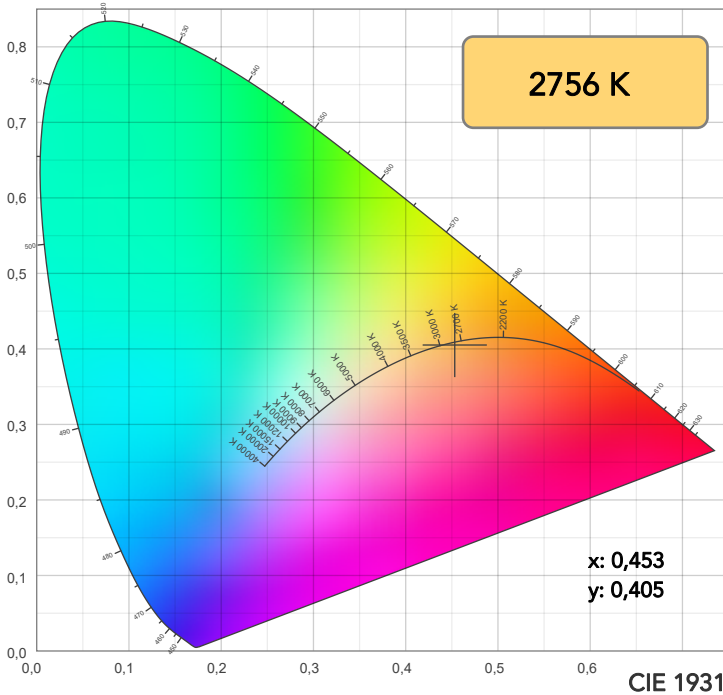
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27/07/2022 12:48:01



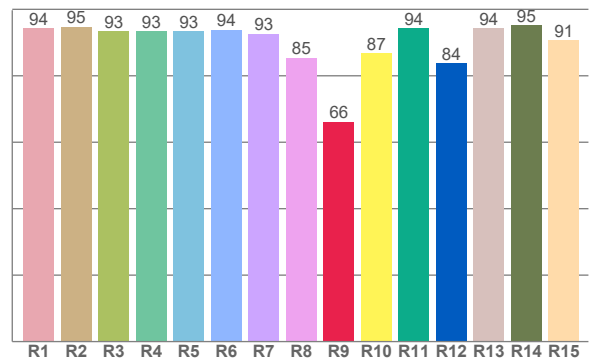
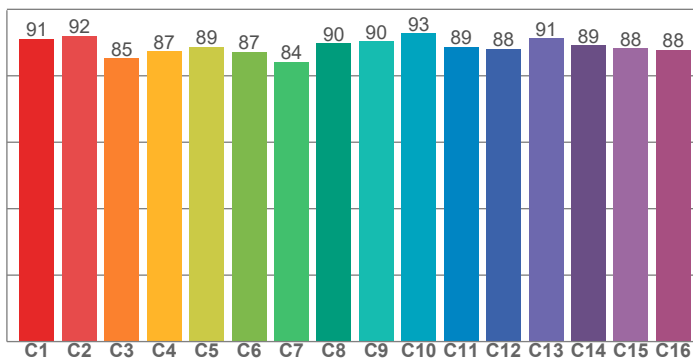
Spectra





TM30: 89,1

CRI: 92,7 (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
94,4	94,8	93,4	93,4	93,4	93,8	92,7	85,5	66,2	86,8	94,3	83,8	94,4	95,3	90,7

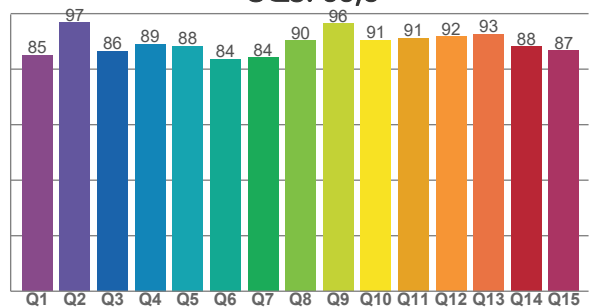
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,1	92,0	85,3	87,4	88,6	87,2	84,1	89,7	90,4	92,8	88,7	88,1	91,2	89,1	88,3	87,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,0	96,7	86,4	89,1	88,3	83,7	84,1	90,3	96,4	90,6	91,3	91,7	92,7	88,2	86,7

CQS: 88,6



COLOR PARAMETERS

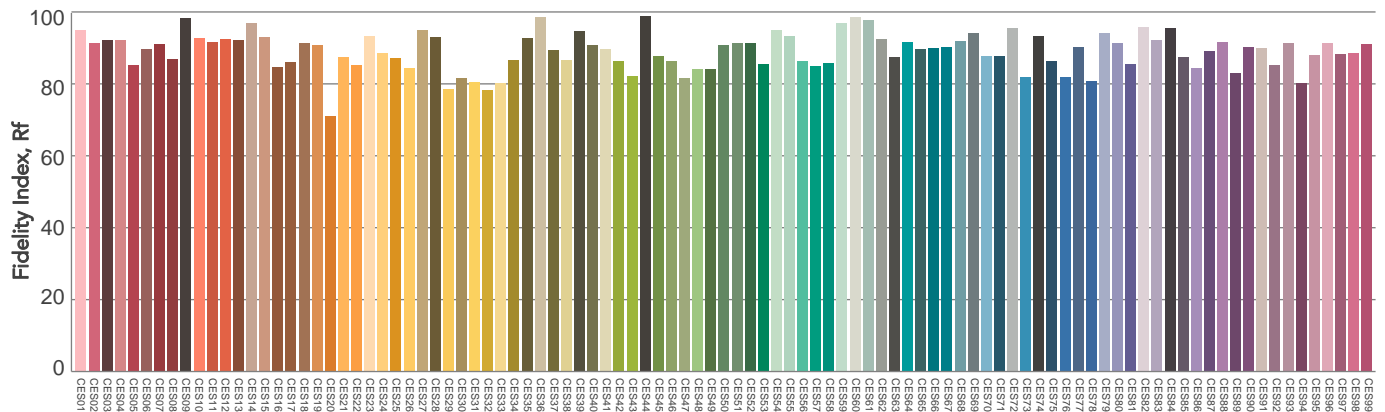
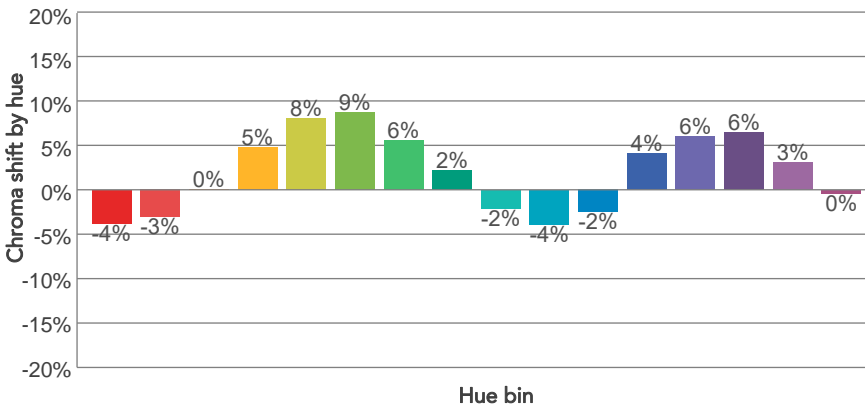
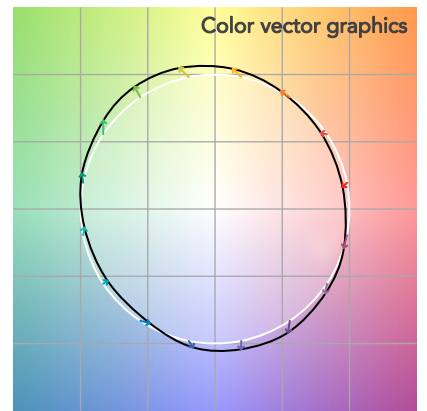
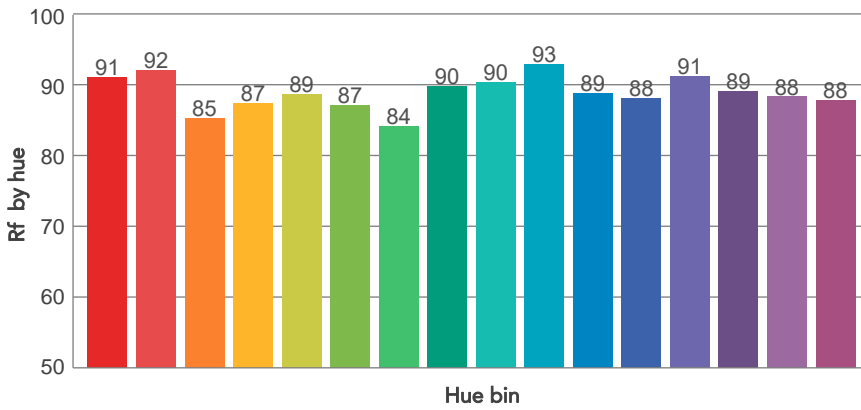
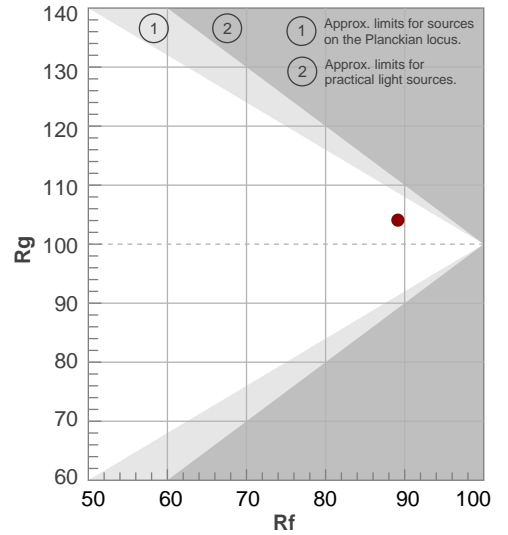
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2756 K	92,7	66,2	89,1	104,1	88,6	83	0,453	0,405	-0,0015

# TM30 DETAILS

**Rf 89,1**  
Fidelity index Rf

**Rg 104,1**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-3%
2	92	-3%	3%
3	85	0%	8%
4	87	5%	7%
5	89	8%	6%
6	87	9%	-1%
7	84	6%	-9%
8	90	2%	-7%
9	90	-2%	-5%
10	93	-4%	0%
11	89	-2%	7%
12	88	4%	4%
13	91	6%	-1%
14	89	6%	-6%
15	88	3%	-7%
16	88	0%	-10%

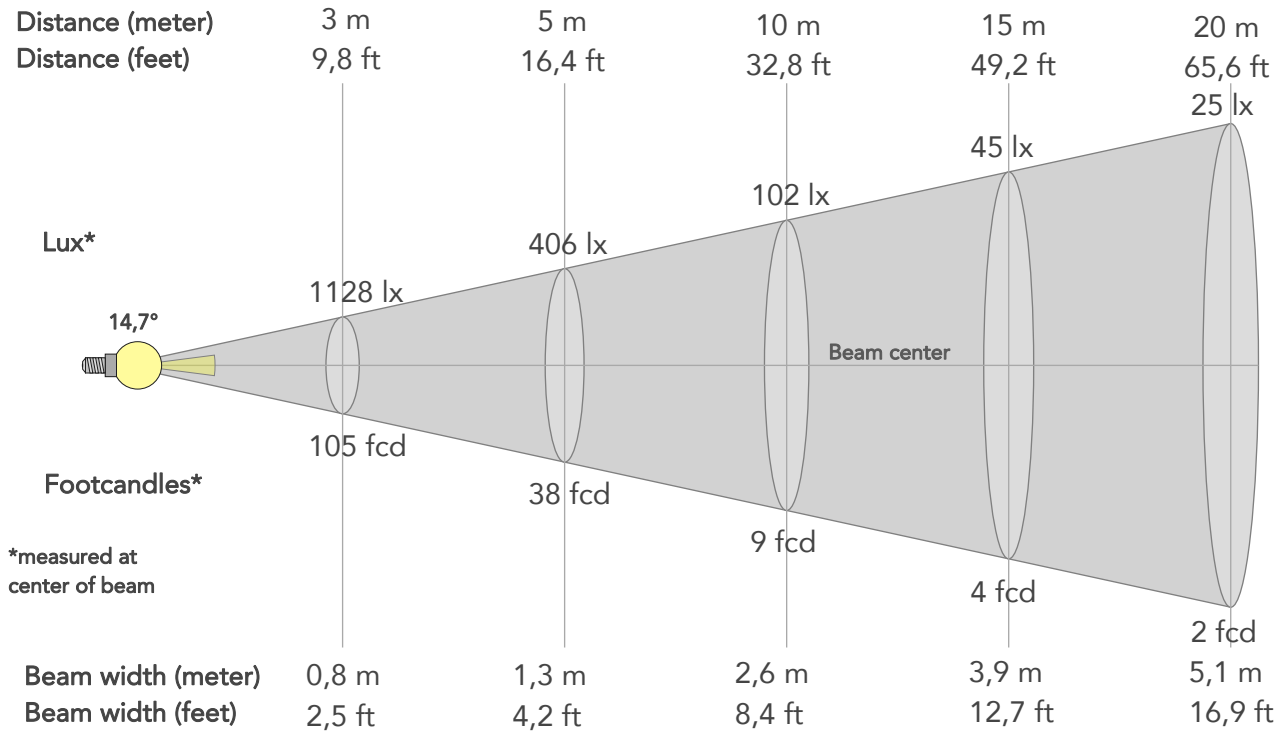


Color Evaluation Sample

# BEAM DETAILS



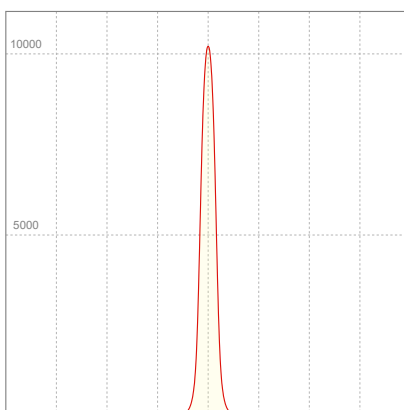
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,7°	24°	32,6°	100,0%	100,0%



## 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	10156lx	2539lx	1128lx	635lx	406lx	181lx	102lx	45lx	25lx	16lx	11lx	6lx	4lx
Footcand.	943fcd	236fcd	105fcd	59fcd	38fcd	17fcd	9fcd	4fcd	2fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,6m	3,9m	5,1m	6,4m	7,7m	10,3m	12,9m
Beam wid.	0,8ft	1,7ft	2,5ft	3,4ft	4,2ft	6,3ft	8,4ft	12,7ft	16,9ft	21,1ft	25,3ft	33,8ft	42,2ft

## LINEAR DISTRIBUTION DIAGRAM

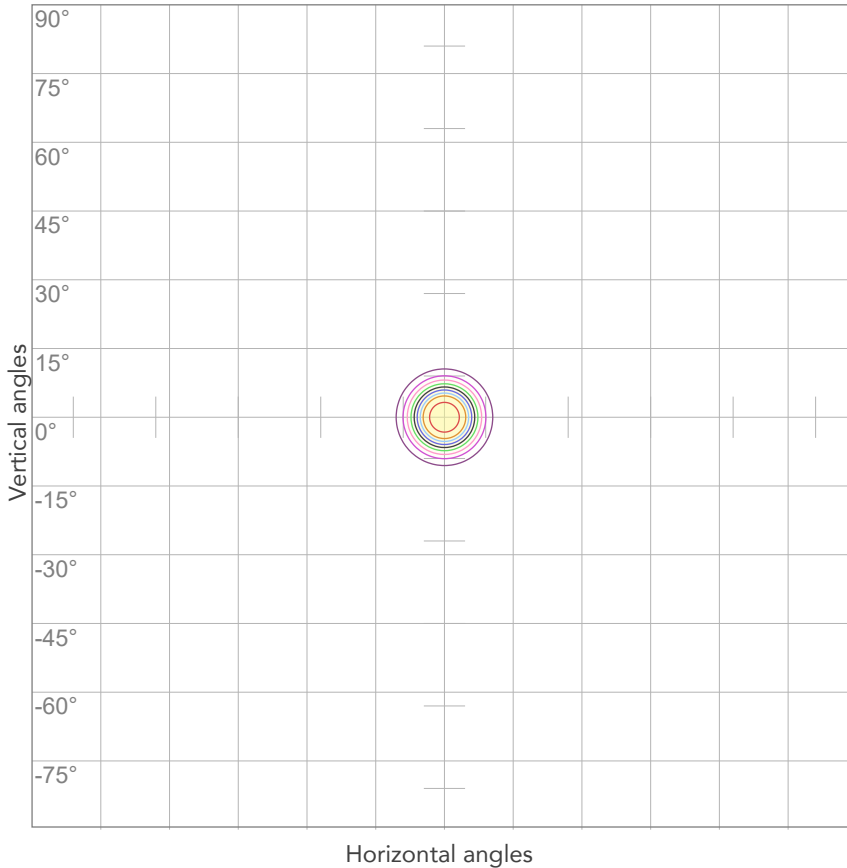


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,102A	20,6W	34lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



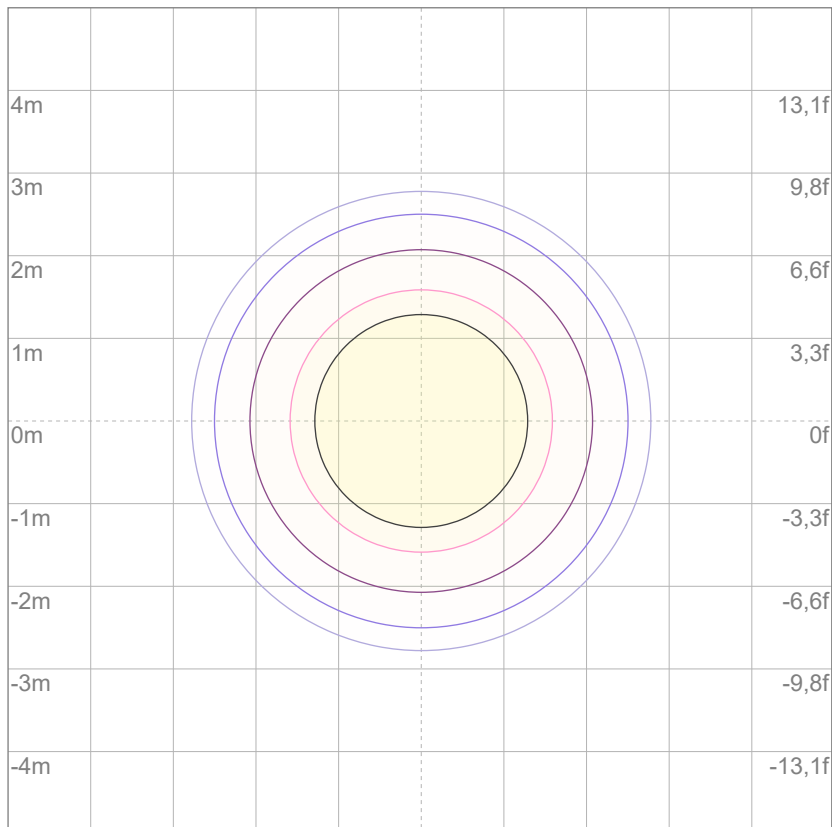
10%	1016 cd
20%	2031 cd
30%	3047 cd
40%	4062 cd
50%	5078 cd
60%	6093 cd
70%	7109 cd
80%	8125 cd

Conditions:

Number of c-planes: 2

Candela at center: 10156 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,05 lx
5%	5,08 lx
10%	10,2 lx
30%	30,5 lx
50%	50,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 102 lx

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



Total lumen output:

1127 lm

Peak candela output:

1524 cd

Light quality:

CRI: 92,8

Color temperature:

2790 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASUREMENT CONDITIONS:**

Beam angle:

Wash 2550 Max Zoom

Target:

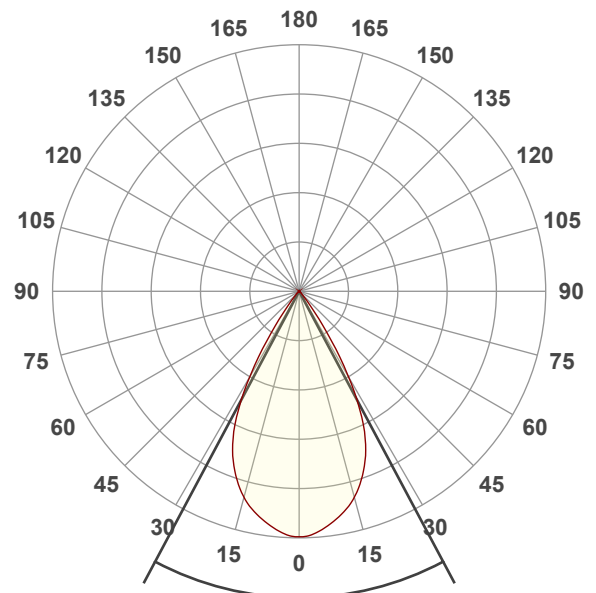
2700K

Operator:

Paolo Carvone

Date and time:

27/07/2022 13:18:04

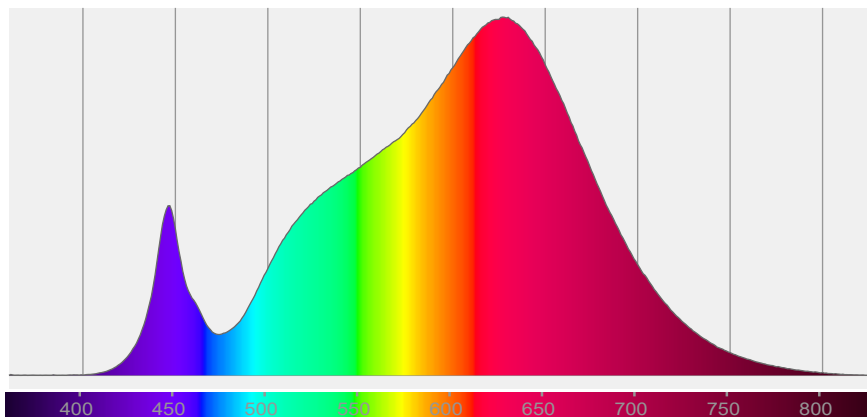


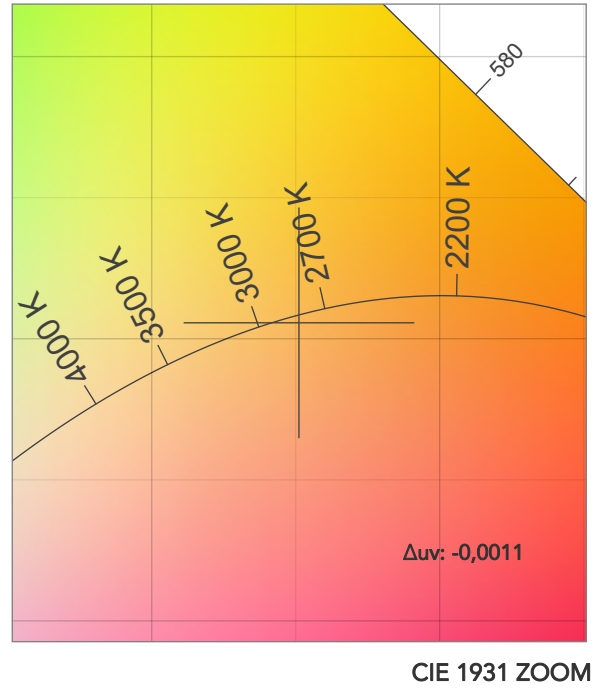
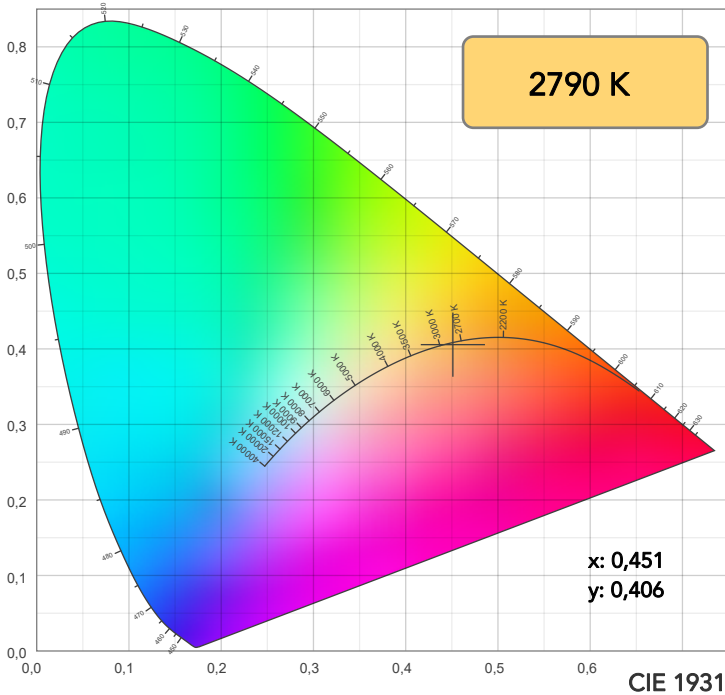
Beam angle 50%: 56,1°

Field angle 10%: 73,9°

Cut off angle 2.5%: 84,7°

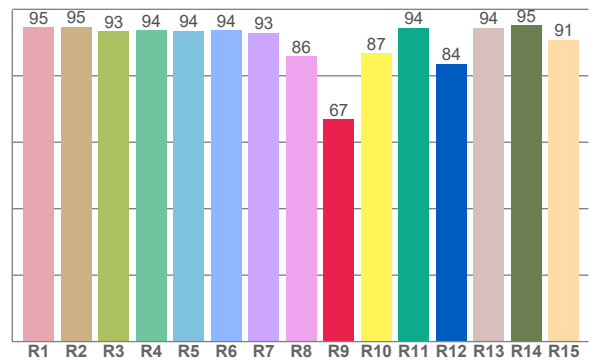
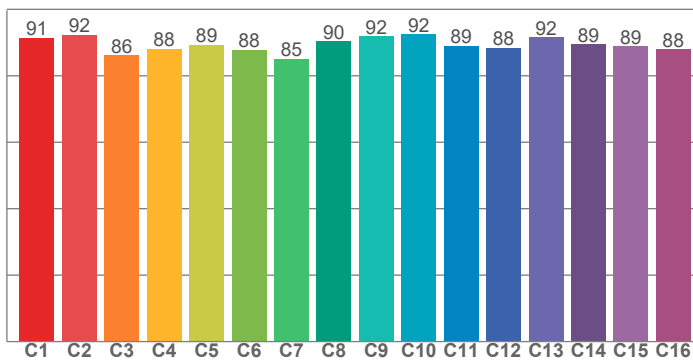
Spectra





TM30: 89,6

CRI: 92,8 (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
94,5	94,8	93,3	93,7	93,6	93,8	93,0	86,0	66,9	86,7	94,4	83,6	94,5	95,2	90,8

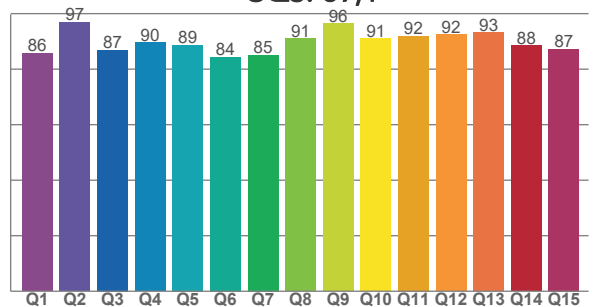
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,3	92,4	86,1	88,0	89,2	87,8	85,1	90,4	91,9	92,4	89,0	88,4	91,6	89,4	88,9	87,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,7	96,9	86,8	89,5	88,8	84,4	85,1	91,0	96,4	91,0	91,9	92,4	93,2	88,4	87,2

CQS: 89,1



COLOR PARAMETERS

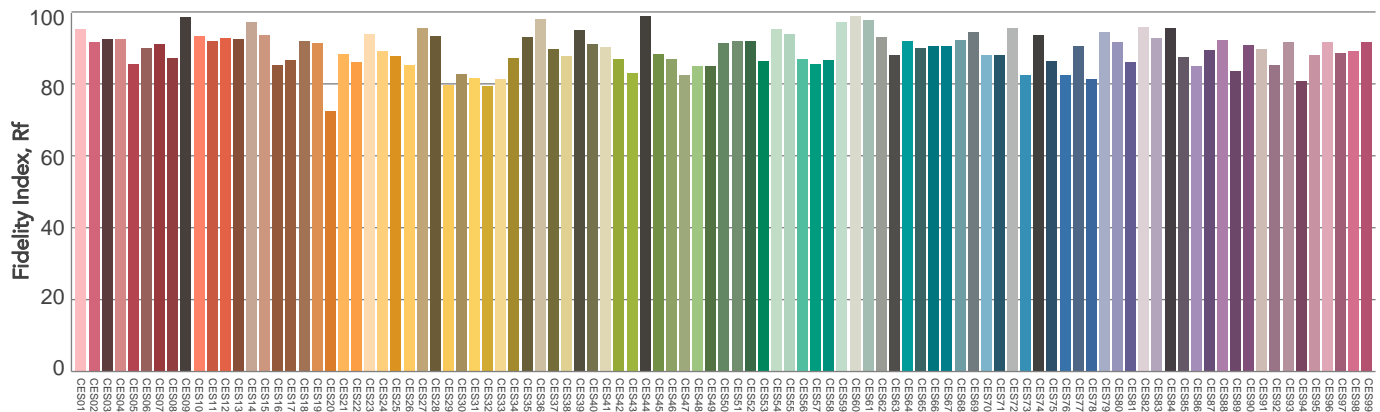
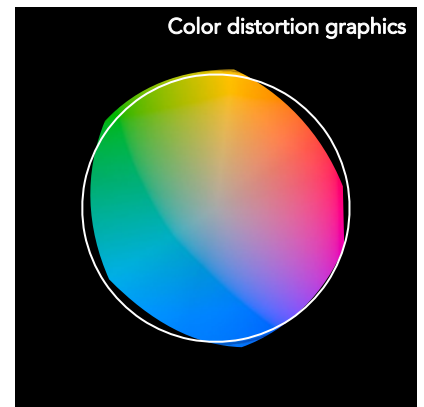
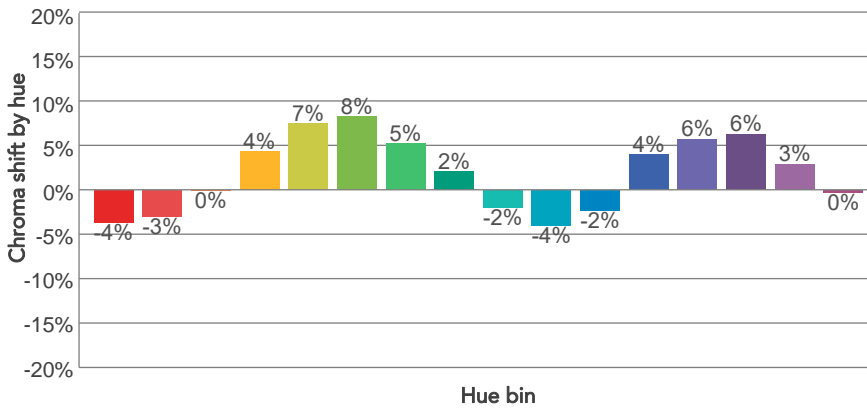
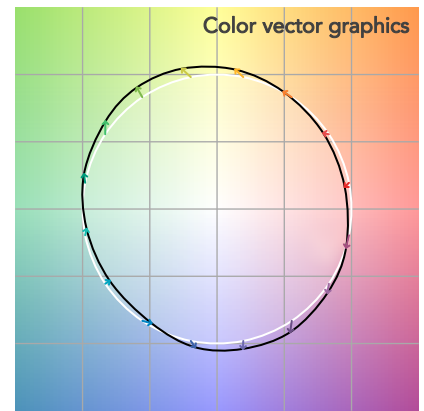
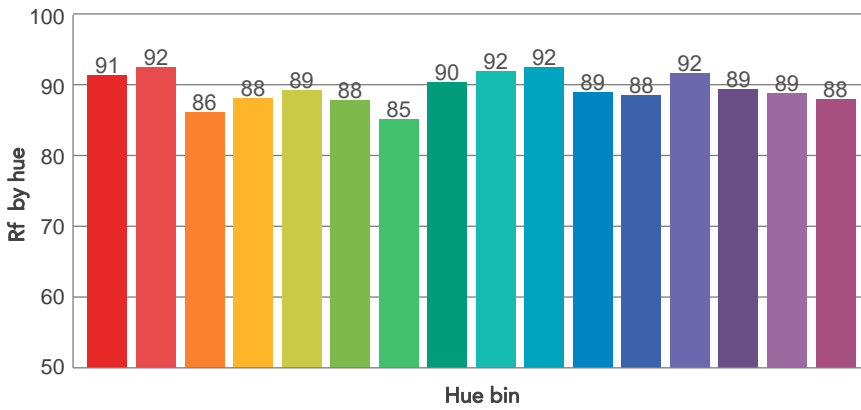
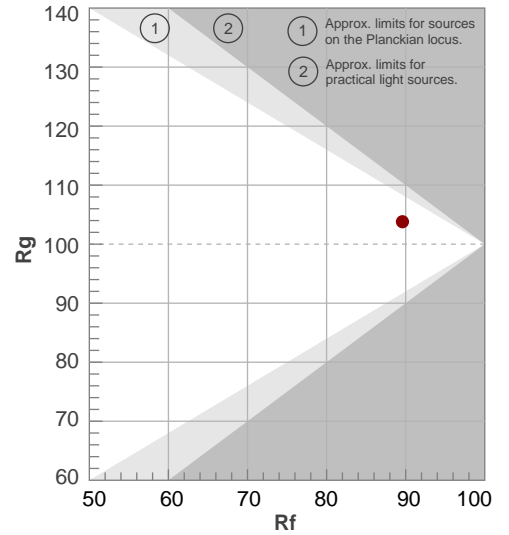
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2790 K	92,8	66,9	89,6	103,8	89,1	84	0,451	0,406	-0,0011

# TM30 DETAILS

**Rf 89,6**  
Fidelity index Rf

**Rg 103,8**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-2%
2	92	-3%	3%
3	86	0%	7%
4	88	4%	7%
5	89	7%	5%
6	88	8%	-1%
7	85	5%	-8%
8	90	2%	-6%
9	92	-2%	-4%
10	92	-4%	0%
11	89	-2%	7%
12	88	4%	4%
13	92	6%	-1%
14	89	6%	-6%
15	89	3%	-6%
16	88	0%	-9%



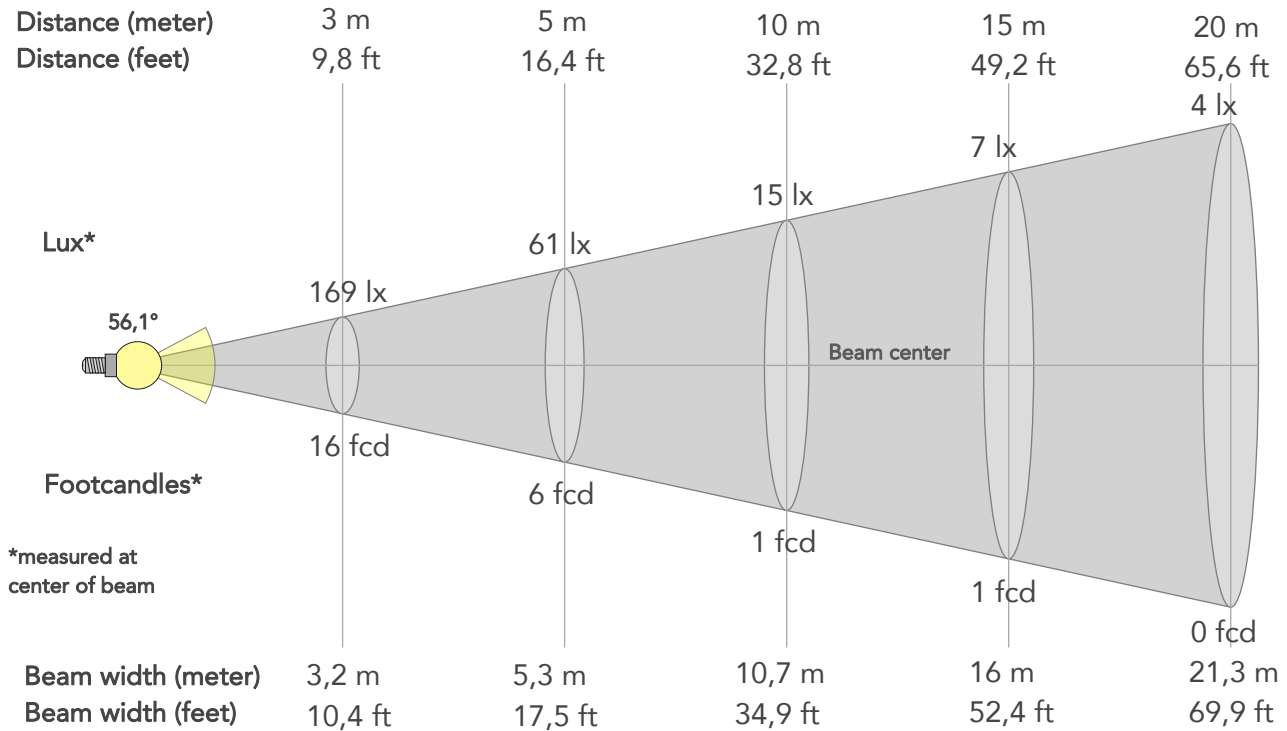
Color Evaluation Sample



# BEAM DETAILS



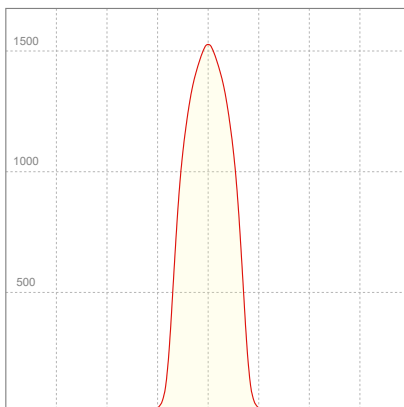
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
56,1°	73,9°	84,7°	100,0%	99,2%



## 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	1524lx	381lx	169lx	95lx	61lx	27lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	142fcd	35fcd	16fcd	9fcd	6fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,1m	3,2m	4,3m	5,3m	8m	10,7m	16m	21,3m	26,6m	32m	42,6m	53,3m
Beam wid.	3,5ft	7ft	10,4ft	14ft	17,5ft	26,2ft	34,9ft	52,4ft	69,9ft	87,4ft	104,8ft	139,8ft	174,7ft

## LINEAR DISTRIBUTION DIAGRAM

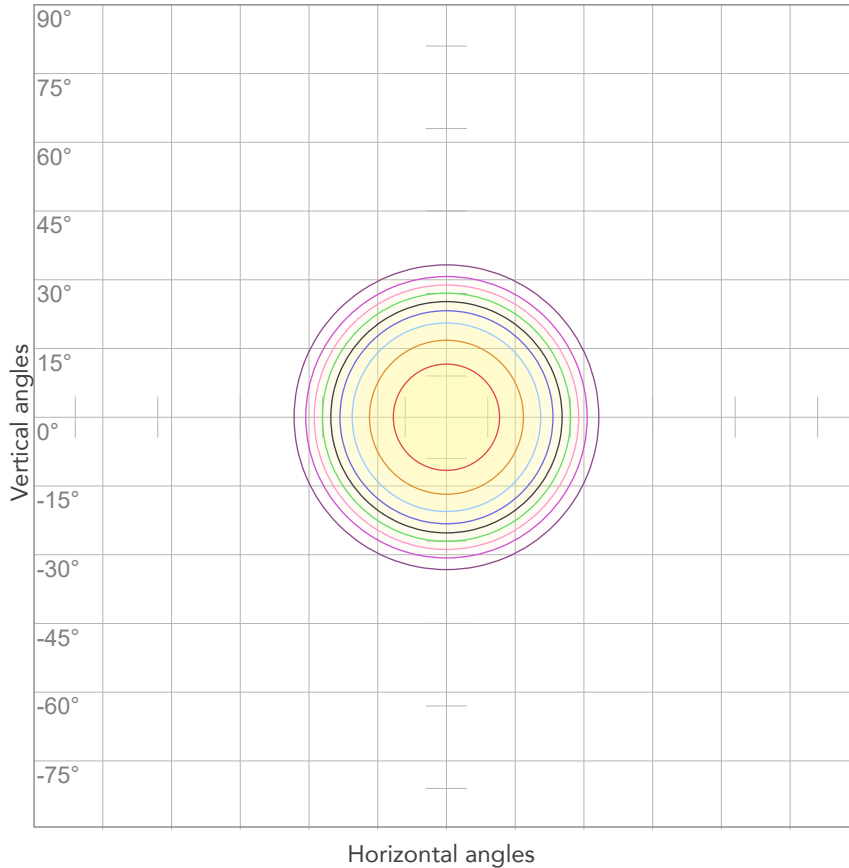


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,102A	20,6W	55lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



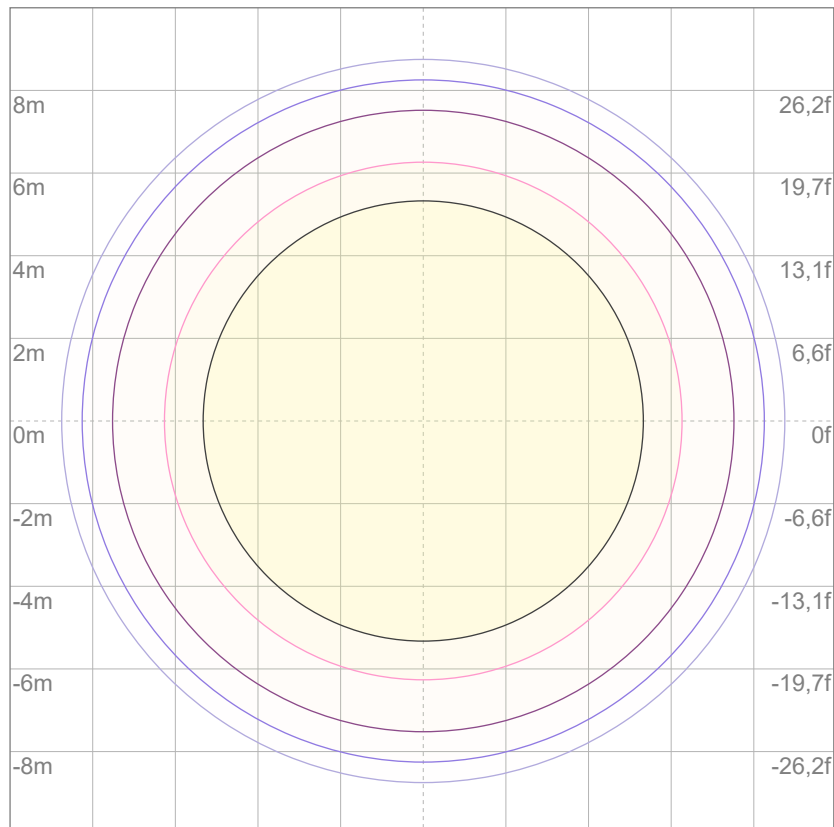
10%	152 cd
20%	305 cd
30%	457 cd
40%	610 cd
50%	762 cd
60%	914 cd
70%	1067 cd
80%	1219 cd

Conditions:

Number of c-planes: 2

Candela at center: 1524 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,457 lx
5%	0,762 lx
10%	1,52 lx
30%	4,57 lx
50%	7,62 lx

Conditions:

Number of c-planes: 2

Lux at center: 15,2 lx

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



Total lumen output:

558 lm

Peak candela output:

5100 cd

Light quality:

CRI: 93,1

Color temperature:

2766 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wash 2550 Min Zoom

Target:

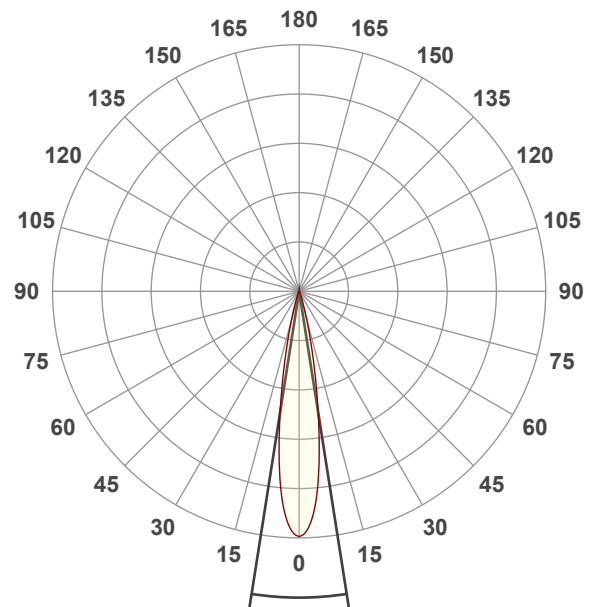
2700K

Operator:

Paolo Carvone

Date and time:

27/07/2022 13:20:05

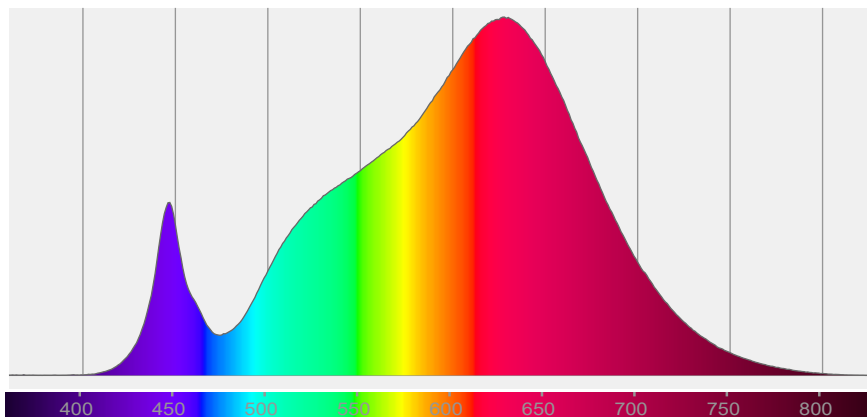


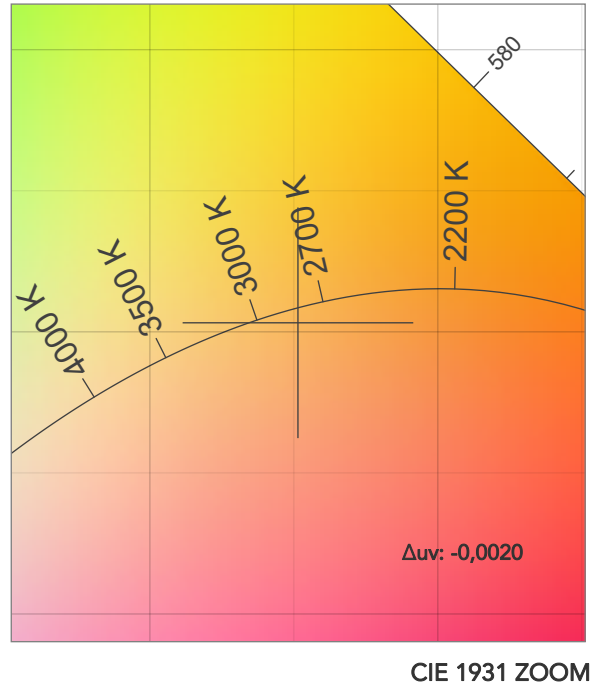
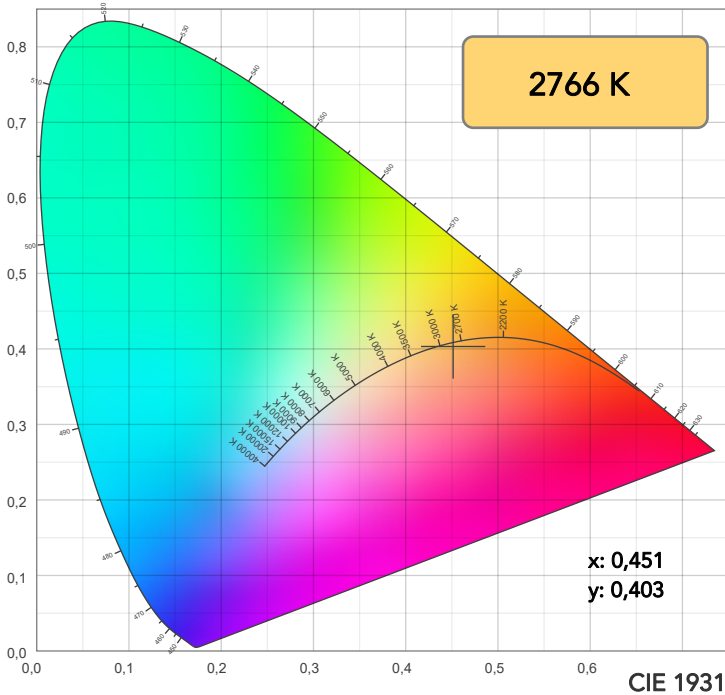
Beam angle 50%: 17,9°

Field angle 10%: 31,3°

Cut off angle 2.5%: 41,9°

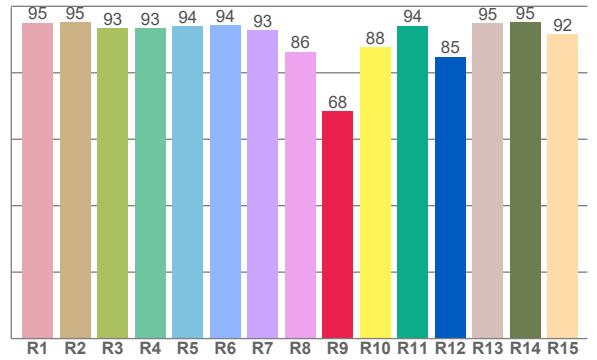
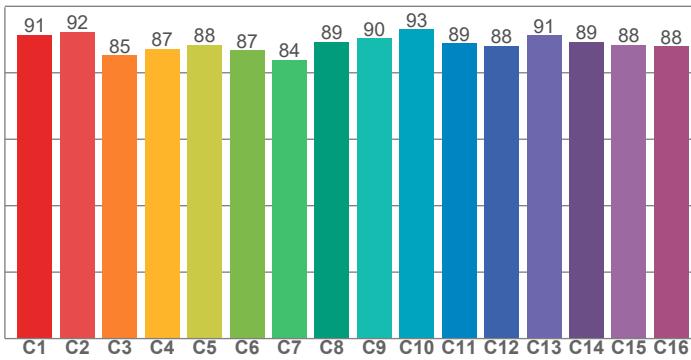
Spectra





TM30: 89,2

CRI: 93,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,0	95,2	93,5	93,5	94,1	94,3	92,8	86,4	68,5	87,6	94,1	84,8	95,0	95,3	91,6

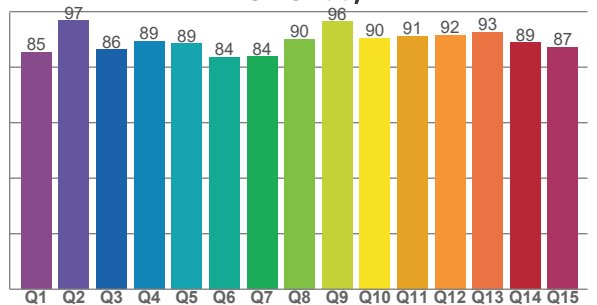
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,4	92,2	85,3	87,2	88,4	86,7	83,9	89,4	90,4	93,0	88,8	88,1	91,2	89,2	88,4	87,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,3	96,8	86,3	89,3	88,5	83,6	83,8	90,2	96,4	90,5	91,2	91,6	92,7	88,9	87,3

CQS: 88,7



COLOR PARAMETERS

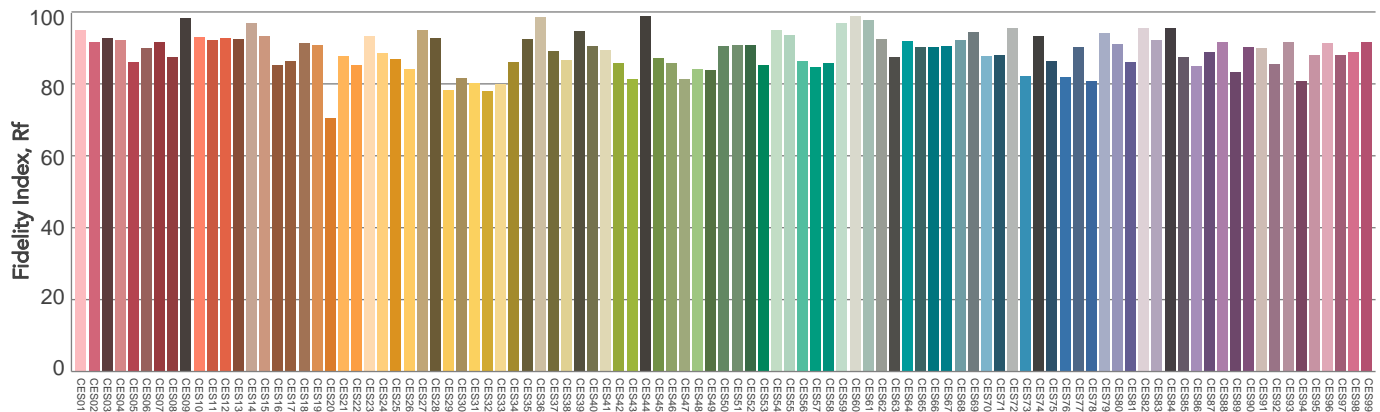
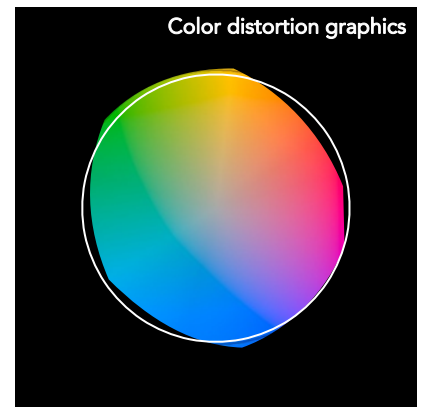
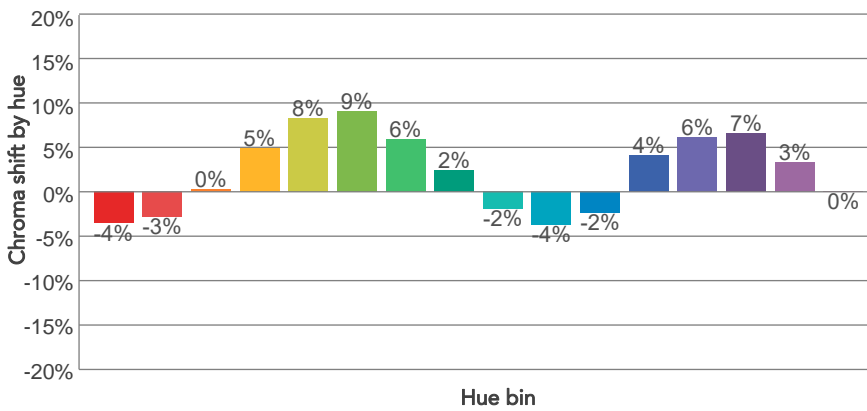
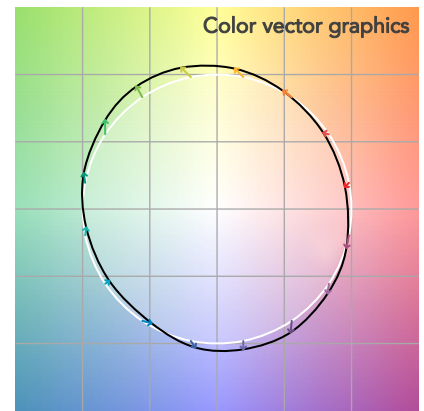
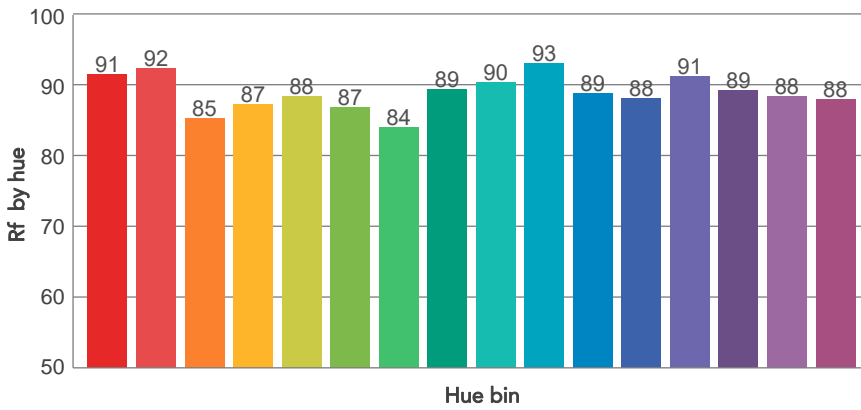
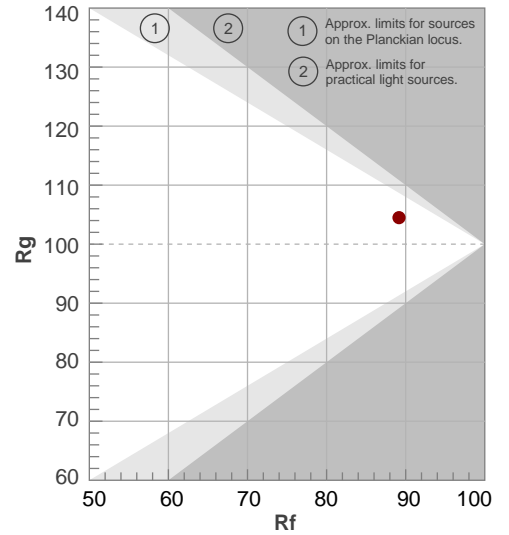
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2766 K	93,1	68,5	89,2	104,5	88,7	83	0,451	0,403	-0,0020

# TM30 DETAILS

**Rf 89,2**  
Fidelity index Rf

**Rg 104,5**  
Gammut index

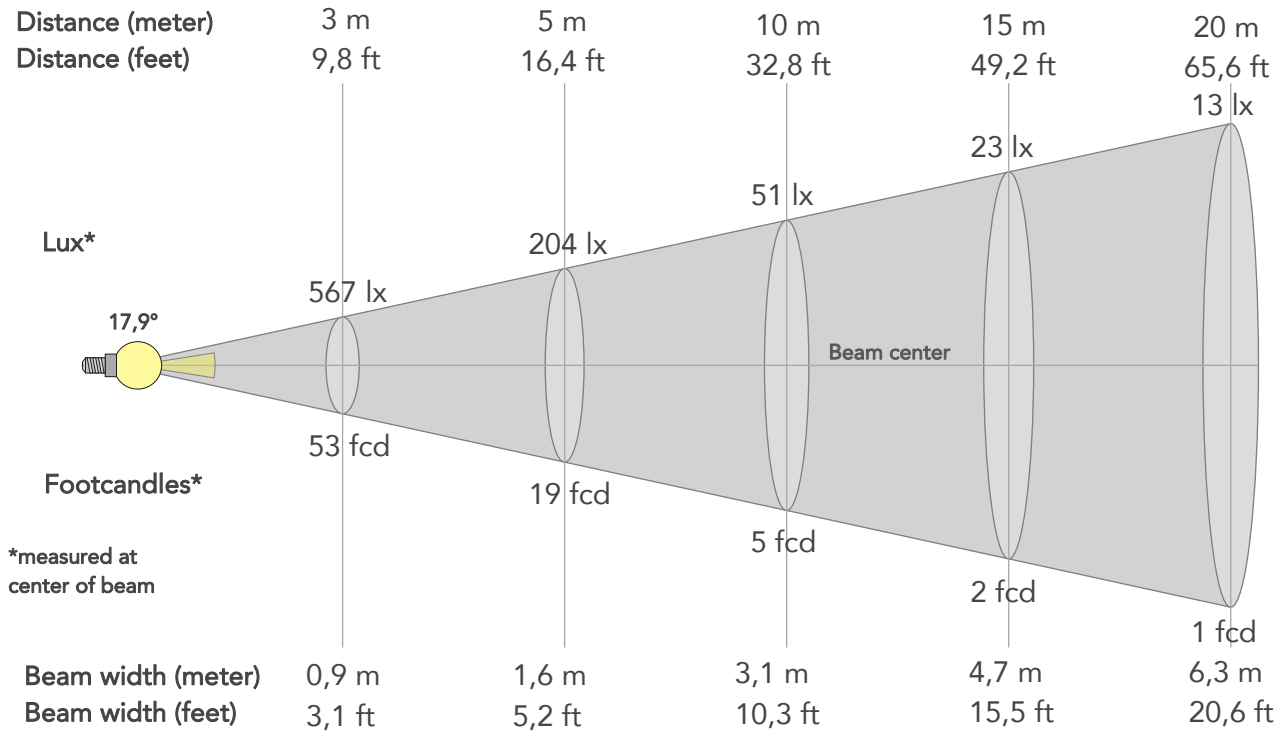
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-3%
2	92	-3%	3%
3	85	0%	8%
4	87	5%	7%
5	88	8%	6%
6	87	9%	-1%
7	84	6%	-9%
8	89	2%	-7%
9	90	-2%	-5%
10	93	-4%	0%
11	89	-2%	7%
12	88	4%	4%
13	91	6%	-1%
14	89	7%	-5%
15	88	3%	-6%
16	88	0%	-9%



# BEAM DETAILS



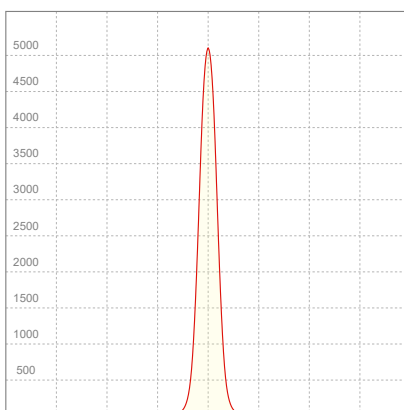
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,9°	31,3°	41,9°	100,0%	100,0%



## 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	5100lx	1275lx	567lx	319lx	204lx	91lx	51lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	474fcd	118fcd	53fcd	30fcd	19fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,3m	1,6m	2,4m	3,1m	4,7m	6,3m	7,9m	9,4m	12,6m	15,7m
Beam wid.	1ft	2,1ft	3,1ft	4,1ft	5,2ft	7,7ft	10,3ft	15,5ft	20,6ft	25,8ft	30,9ft	41,2ft	51,5ft

## LINEAR DISTRIBUTION DIAGRAM

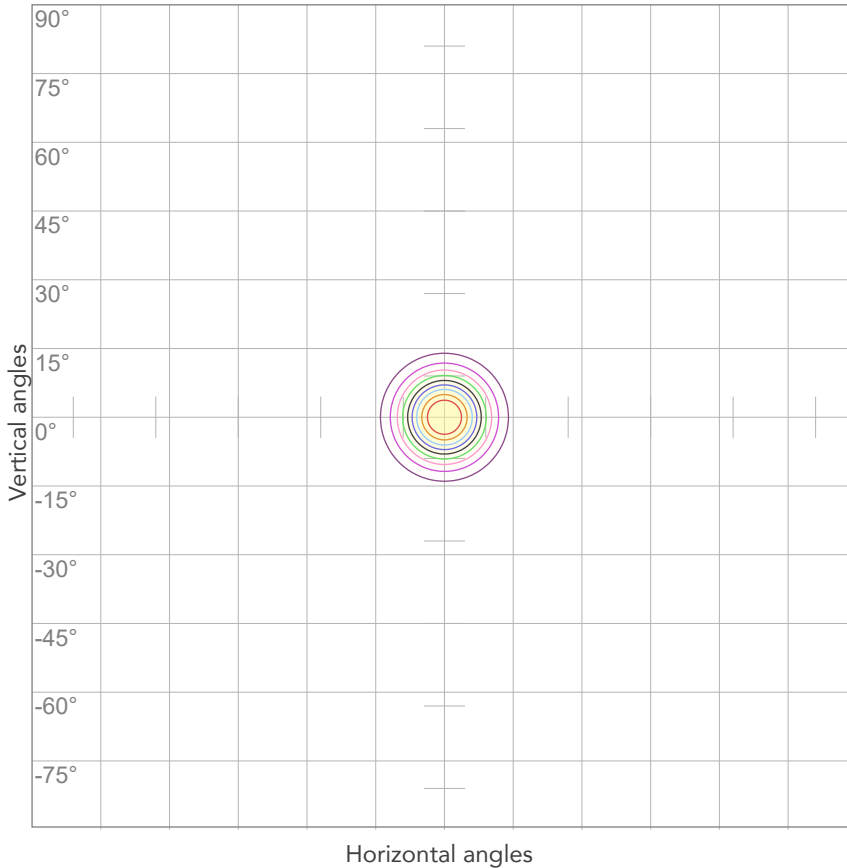


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,102A	20,6W	27lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



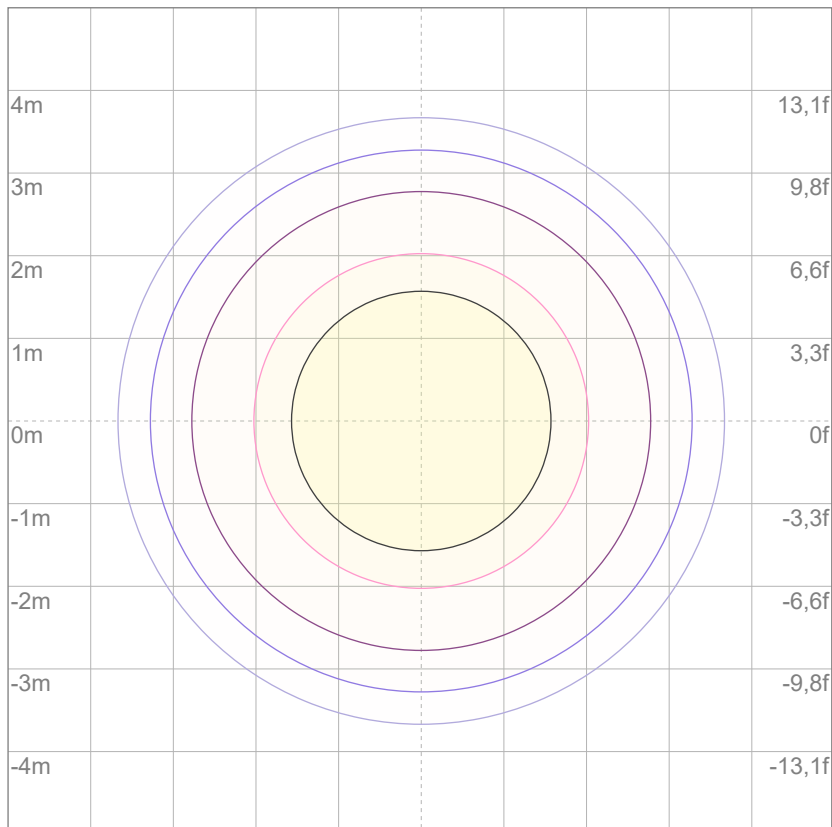
10%	510 cd
20%	1020 cd
30%	1530 cd
40%	2040 cd
50%	2550 cd
60%	3060 cd
70%	3570 cd
80%	4080 cd

Conditions:

Number of c-planes: 2

Candela at center: 5100 cd

## ISO LUX DIAGRAM



3%	1,53 lx
5%	2,55 lx
10%	5,10 lx
30%	15,3 lx
50%	25,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 51,0 lx

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



Total lumen output:

1072 lm

Peak candela output:

3599 cd

Light quality:

CRI: 91,9

Color temperature:

3023 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wash 1530 Max Zoom

Target:

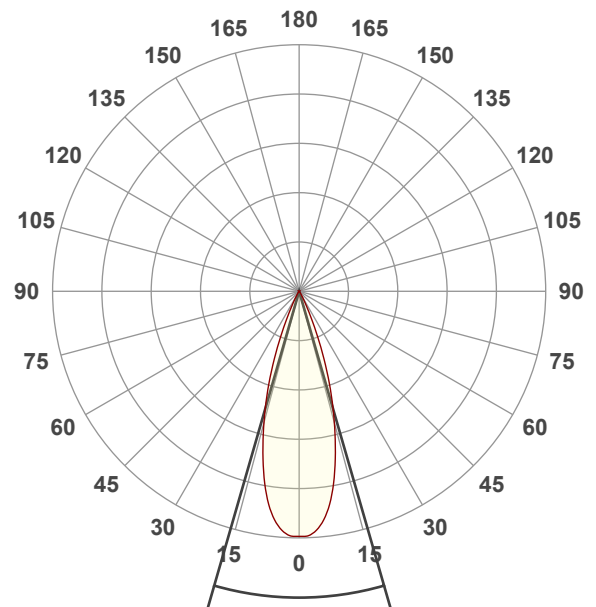
3000K

Operator:

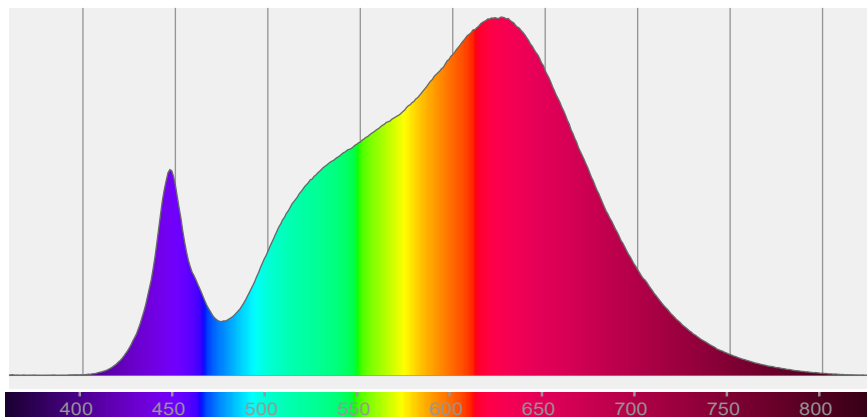
Paolo Carvone

Date and time:

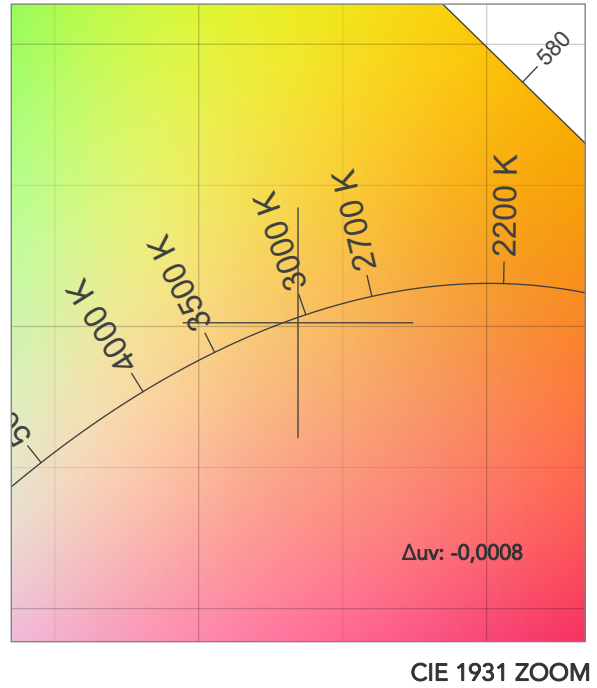
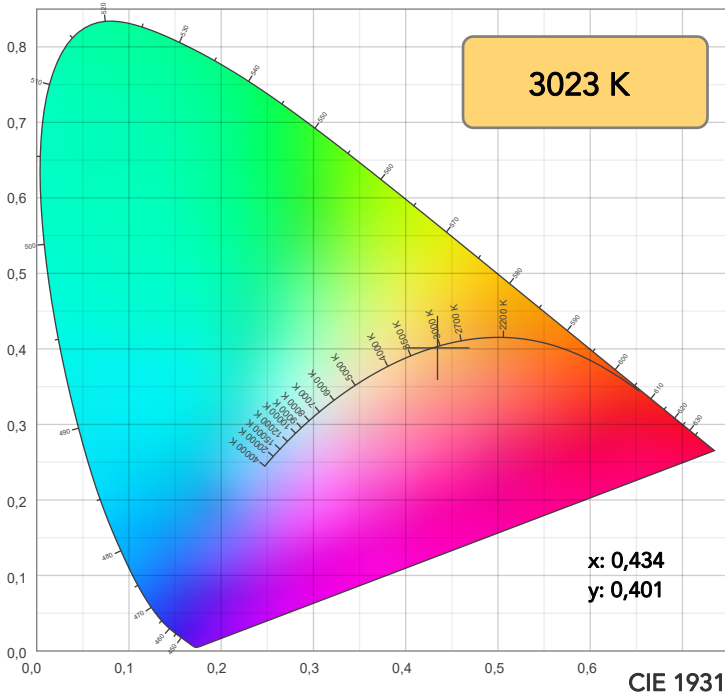
27/07/2022 15:01:16



Spectra

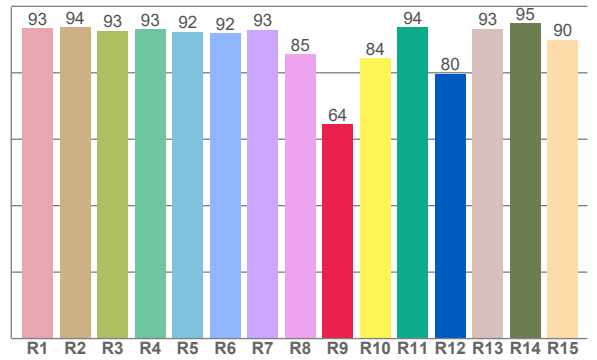
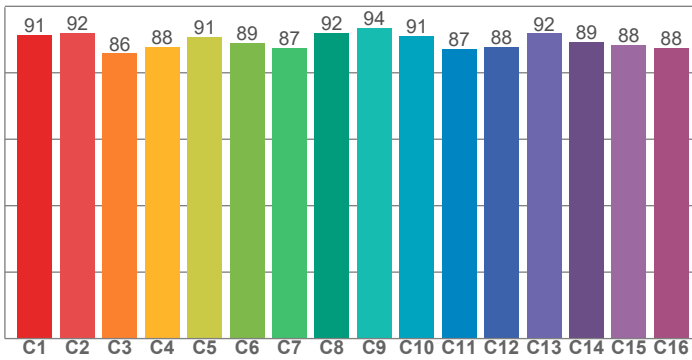






TM30: 89,7

CRI: 91,9 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,4	93,8	92,6	93,0	92,3	92,0	93,0	85,5	64,5	84,4	93,7	79,7	93,3	95,0	90,0

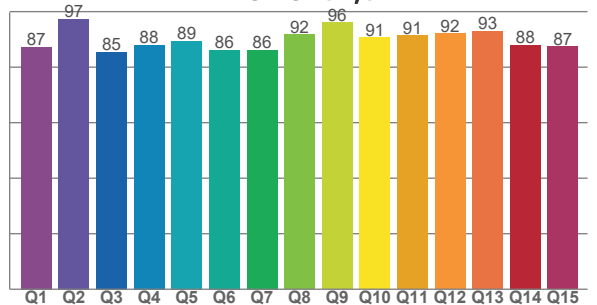
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,3	92,0	85,8	87,8	90,7	89,1	87,5	92,1	93,6	91,1	87,2	87,7	91,9	89,3	88,4	87,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,2	97,3	85,4	88,0	89,4	86,2	86,2	91,8	96,1	90,6	91,3	92,0	92,9	87,9	87,5

CQS: 89,3



COLOR PARAMETERS

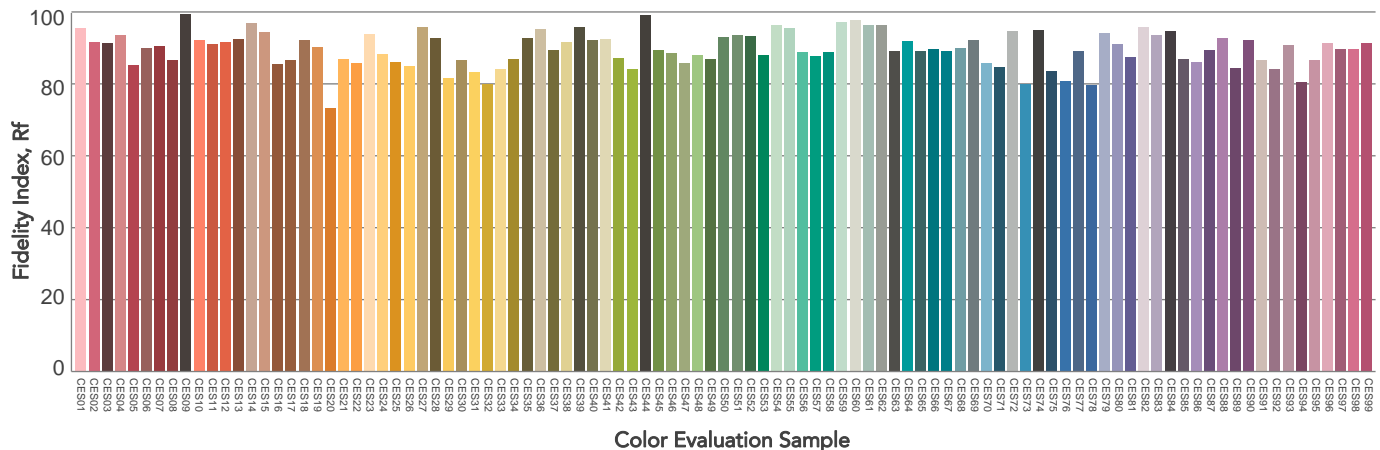
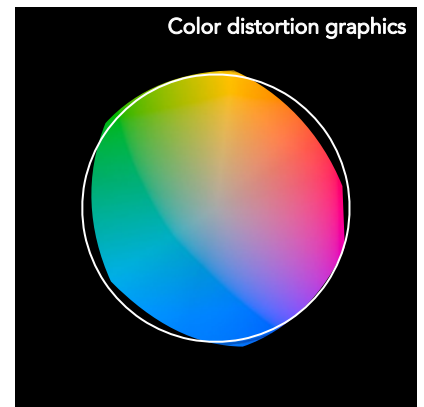
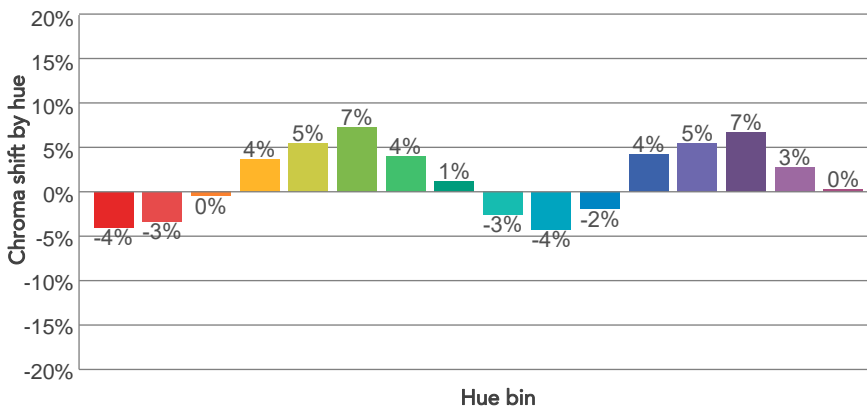
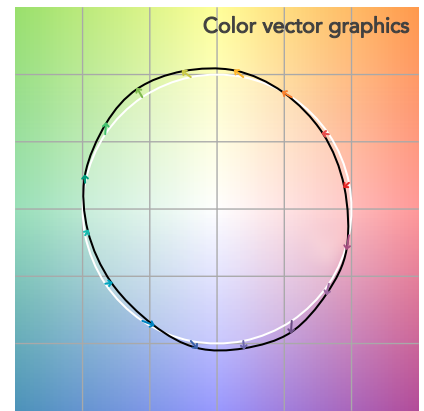
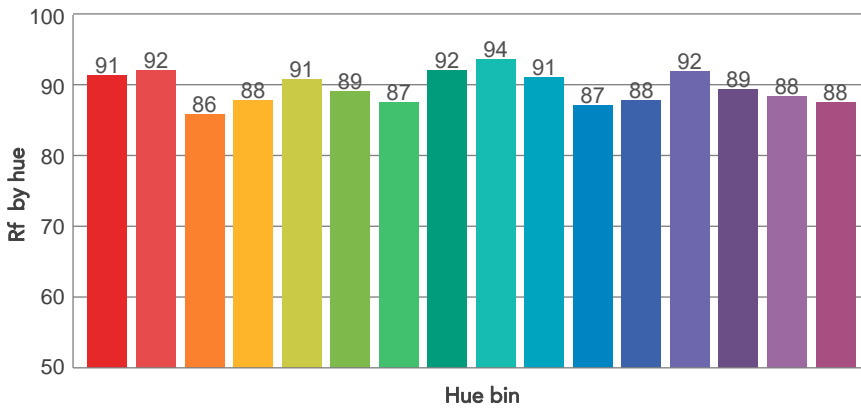
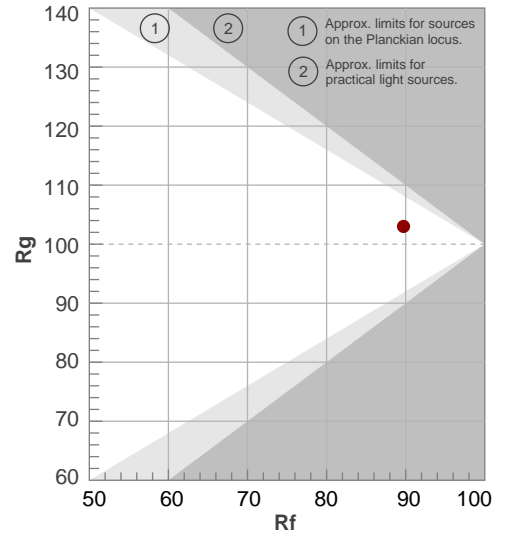
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3023 K	91,9	64,5	89,7	103,0	89,3	86	0,434	0,401	-0,0008

# TM30 DETAILS

**Rf 89,7**  
Fidelity index Rf

**Rg 103,0**  
Gammut index

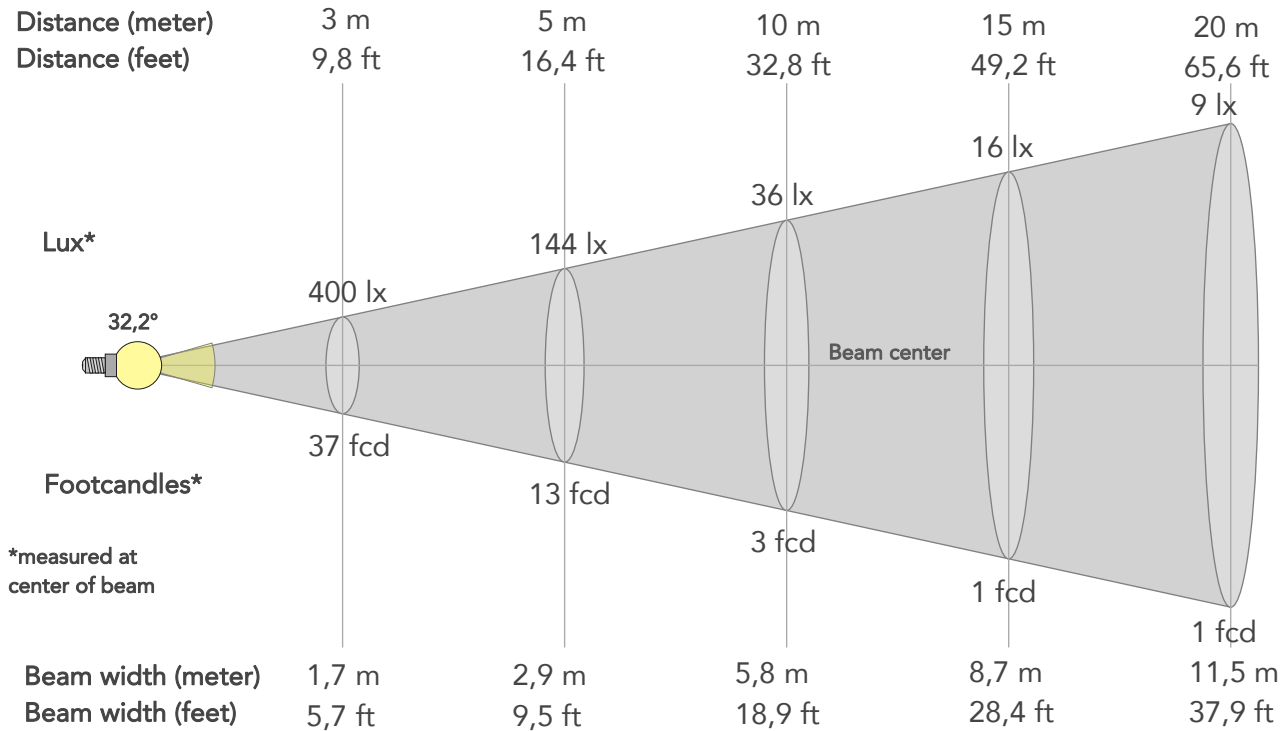
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-2%
2	92	-3%	3%
3	86	0%	7%
4	88	4%	7%
5	91	5%	5%
6	89	7%	0%
7	87	4%	-7%
8	92	1%	-5%
9	94	-3%	-3%
10	91	-4%	2%
11	87	-2%	9%
12	88	4%	5%
13	92	5%	-1%
14	89	7%	-5%
15	88	3%	-7%
16	88	0%	-10%



# BEAM DETAILS



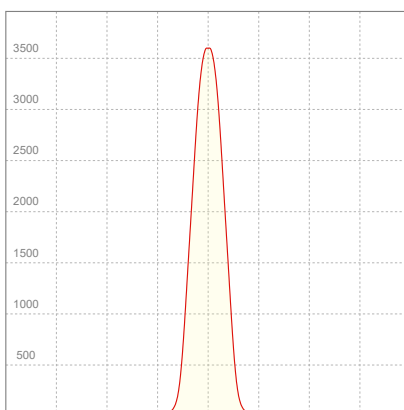
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,2°	50,2°	60,4°	100,0%	99,8%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3599lx	900lx	400lx	225lx	144lx	64lx	36lx	16lx	9lx	6lx	4lx	2lx	1lx
Footcand.	334fcd	84fcd	37fcd	21fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,7m	2,3m	2,9m	4,3m	5,8m	8,7m	11,5m	14,4m	17,3m	23,1m	28,9m
Beam wid.	1,9ft	3,8ft	5,7ft	7,6ft	9,5ft	14,2ft	18,9ft	28,4ft	37,9ft	47,3ft	56,8ft	75,7ft	94,6ft

## LINEAR DISTRIBUTION DIAGRAM

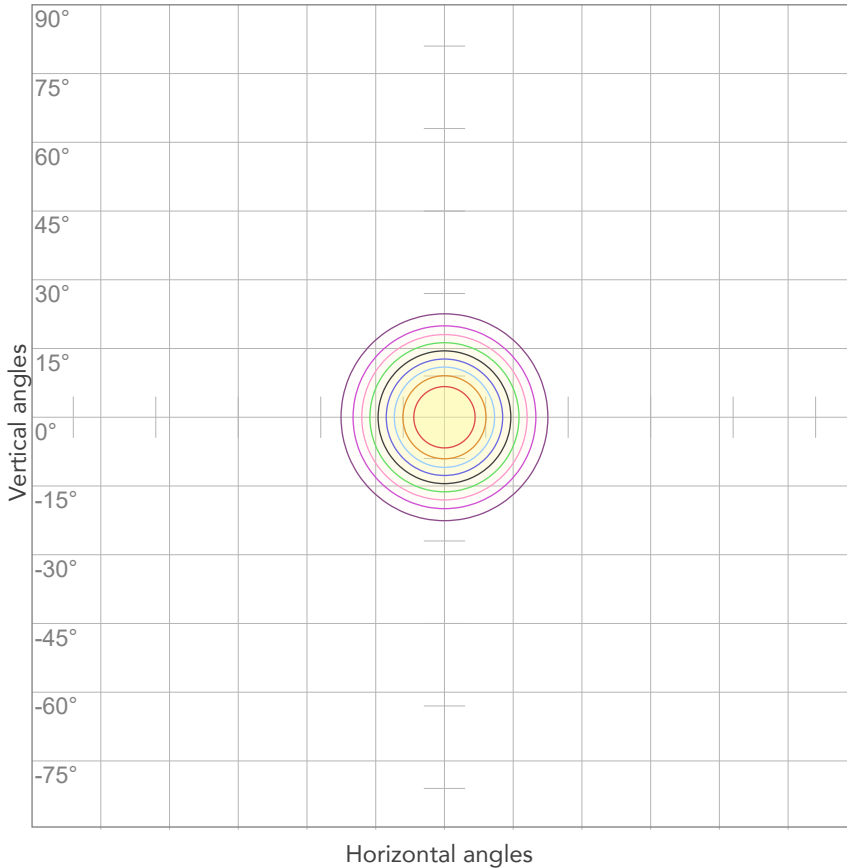


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,103A	20,7W	52lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



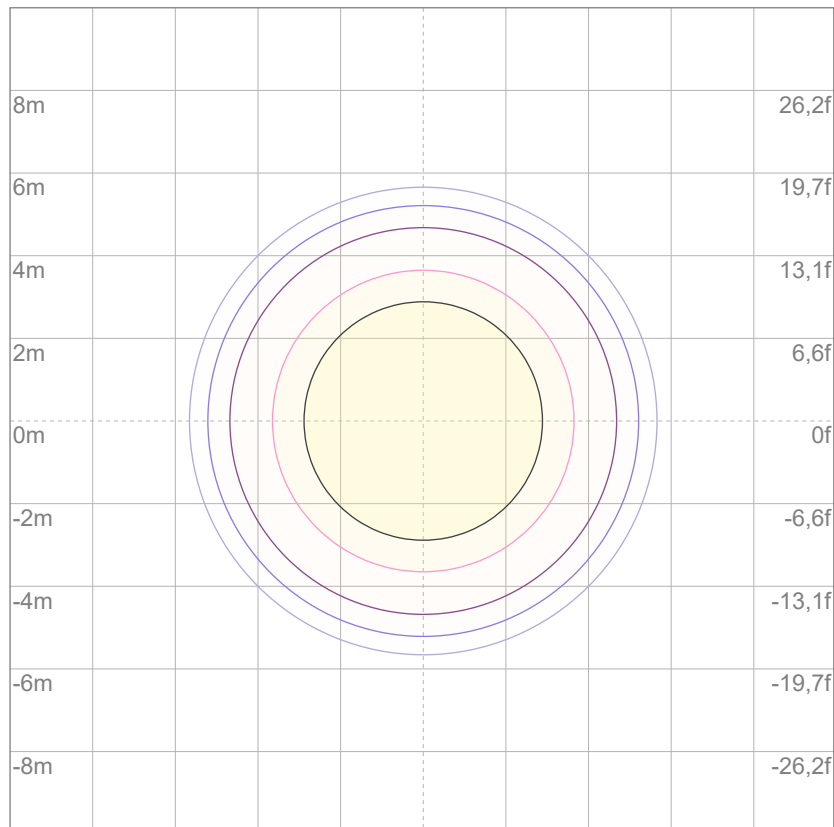
10%	360 cd
20%	720 cd
30%	1080 cd
40%	1440 cd
50%	1799 cd
60%	2159 cd
70%	2519 cd
80%	2879 cd

Conditions:

Number of c-planes: 2

Candela at center: 3599 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,08 lx
5%	1,80 lx
10%	3,60 lx
30%	10,8 lx
50%	18,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 36,0 lx

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



Total lumen output:

698 lm

Peak candela output:

10303 cd

Light quality:

CRI: 92,0

Color temperature:

2998 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wash 1530 Min Zoom

Target:

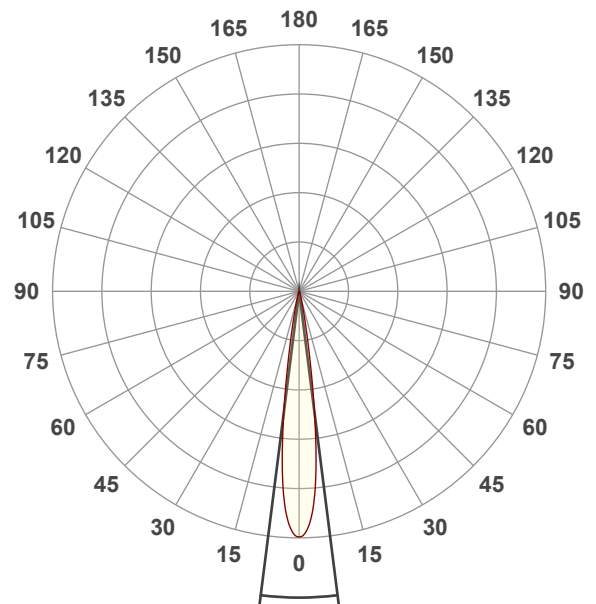
3000K

Operator:

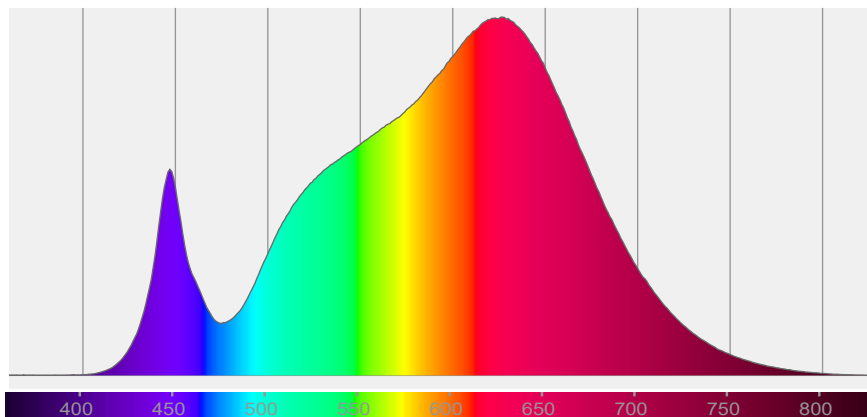
Paolo Carvone

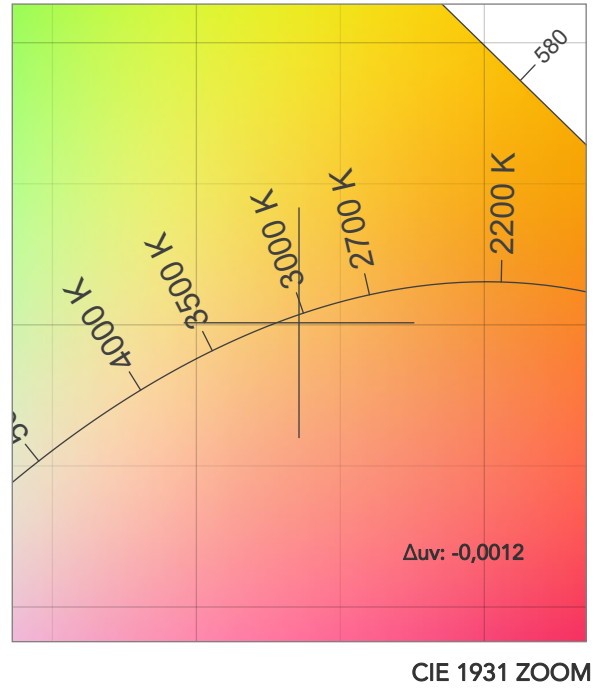
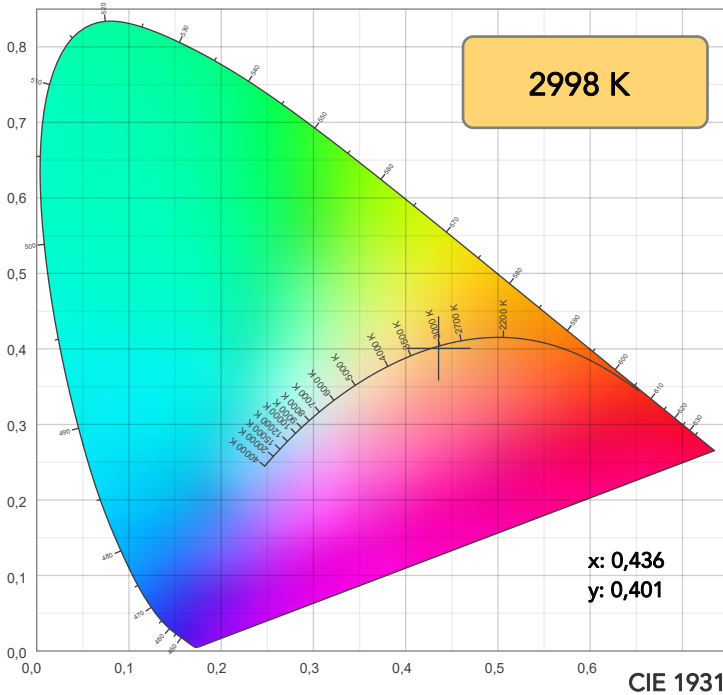
Date and time:

27/07/2022 14:59:31

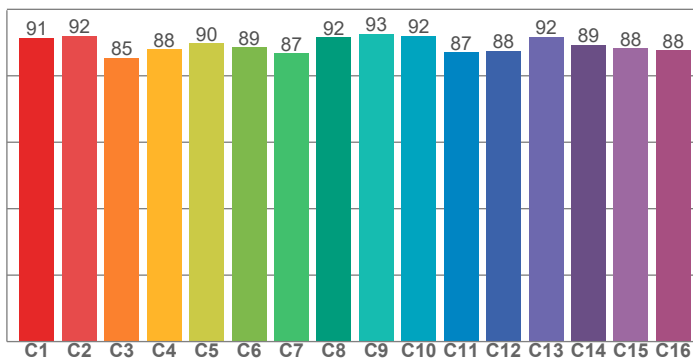


Spectra

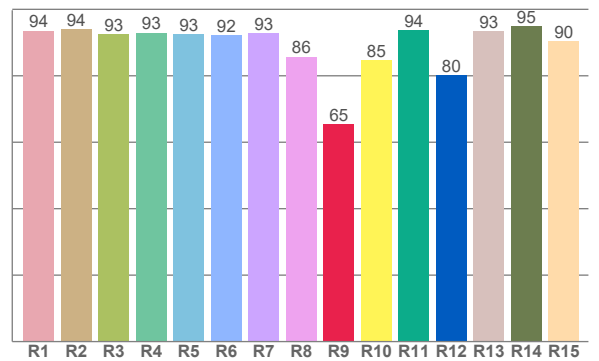




**TM30: 89,5**



**CRI: 92,0 (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
93,6	93,9	92,6	92,9	92,5	92,1	92,8	85,7	65,4	84,7	93,7	80,2	93,4	94,9	90,3

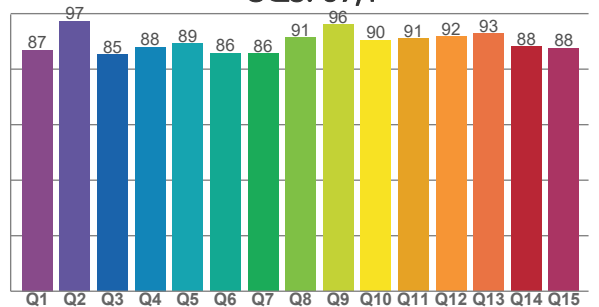
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,4	92,0	85,5	88,0	89,7	88,5	86,7	91,5	92,6	92,0	87,1	87,5	91,7	89,3	88,2	87,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,0	97,2	85,2	87,9	89,2	85,7	85,6	91,4	96,1	90,4	91,0	91,8	92,8	88,2	87,5

**CQS: 89,1**



## COLOR PARAMETERS

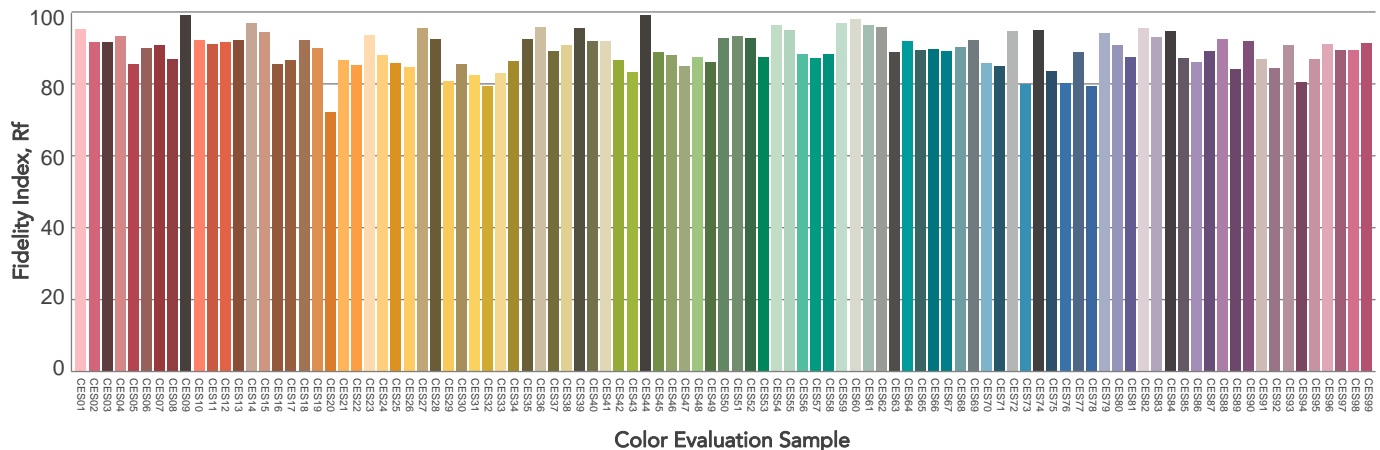
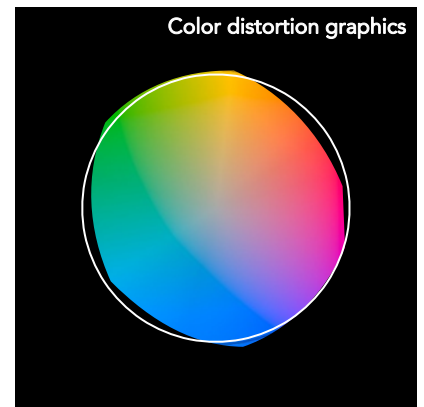
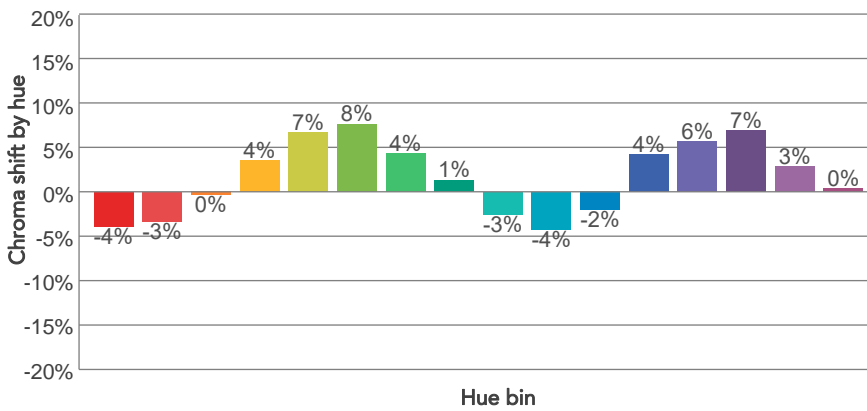
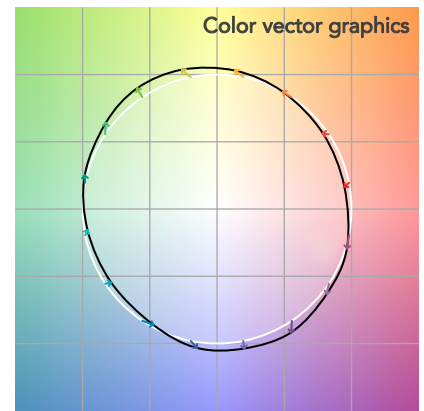
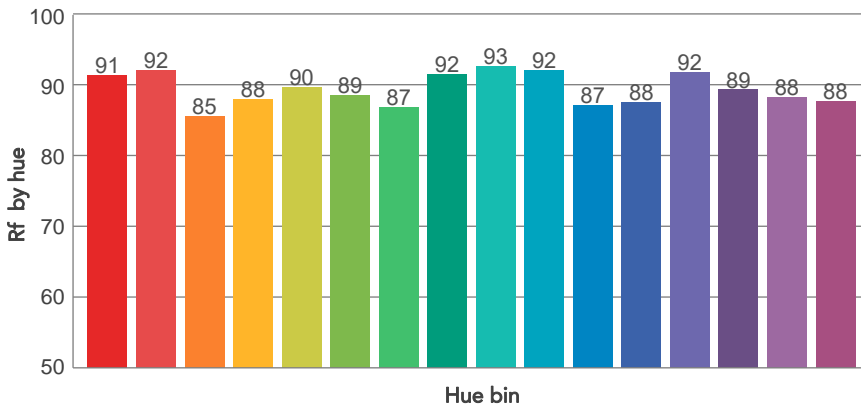
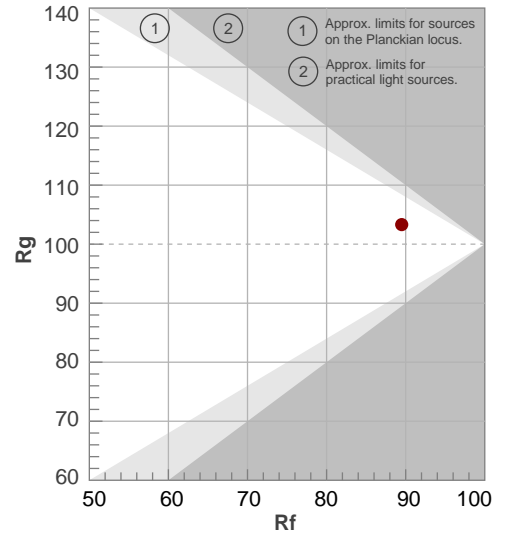
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2998 K	92,0	65,4	89,5	103,3	89,1	86	0,436	0,401	-0,0012

# TM30 DETAILS

**Rf 89,5**  
Fidelity index Rf

**Rg 103,3**  
Gammut index

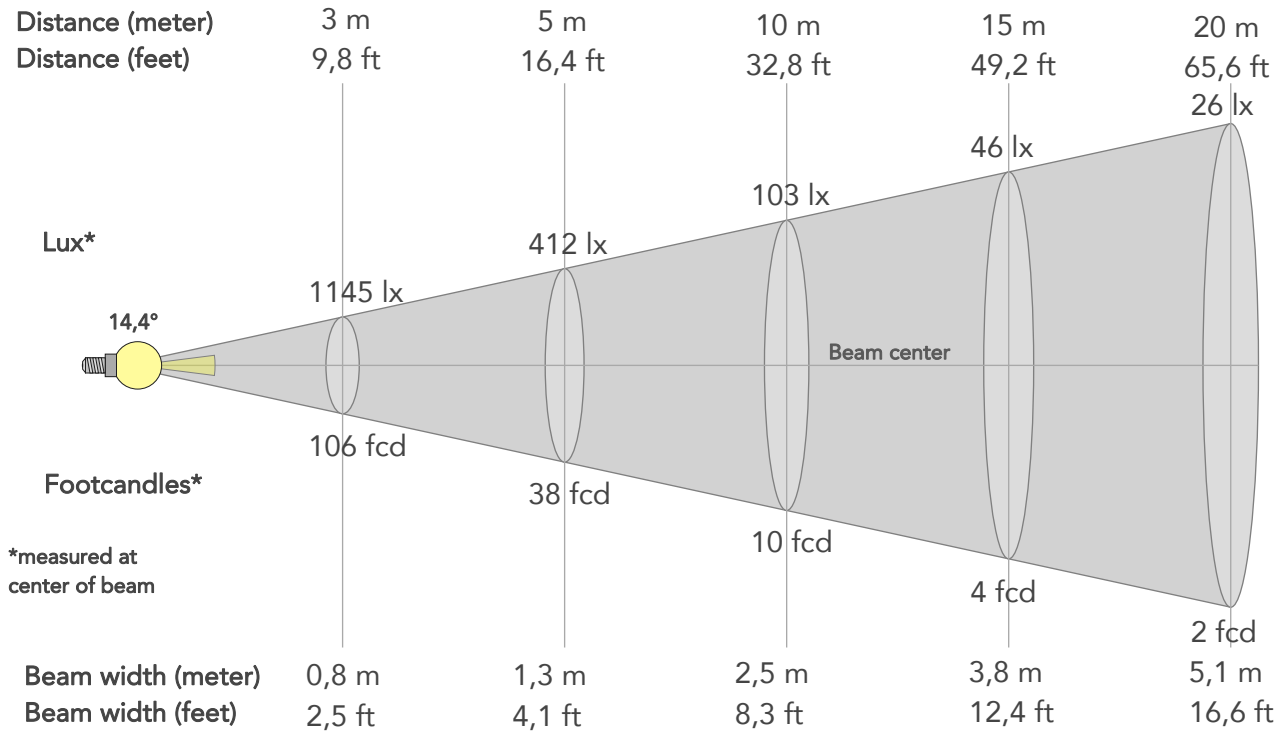
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-2%
2	92	-3%	3%
3	85	0%	8%
4	88	4%	7%
5	90	7%	5%
6	89	8%	0%
7	87	4%	-7%
8	92	1%	-5%
9	93	-3%	-3%
10	92	-4%	2%
11	87	-2%	8%
12	88	4%	5%
13	92	6%	0%
14	89	7%	-5%
15	88	3%	-7%
16	88	0%	-10%



# BEAM DETAILS



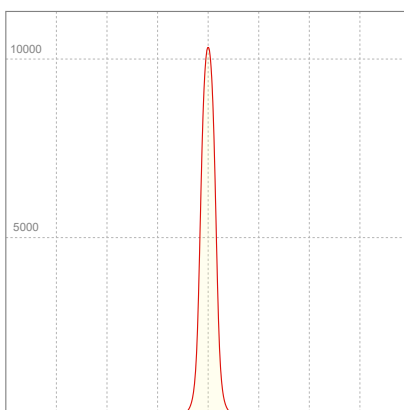
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,4°	23,6°	32,5°	100,0%	100,0%



## 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	10303lx	2576lx	1145lx	644lx	412lx	183lx	103lx	46lx	26lx	16lx	11lx	6lx	4lx
Footcand.	957fcd	239fcd	106fcd	60fcd	38fcd	17fcd	10fcd	4fcd	2fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,5m	3,8m	5,1m	6,3m	7,6m	10,1m	12,6m
Beam wid.	0,8ft	1,7ft	2,5ft	3,3ft	4,1ft	6,2ft	8,3ft	12,4ft	16,6ft	20,7ft	24,9ft	33,2ft	41,5ft

## LINEAR DISTRIBUTION DIAGRAM



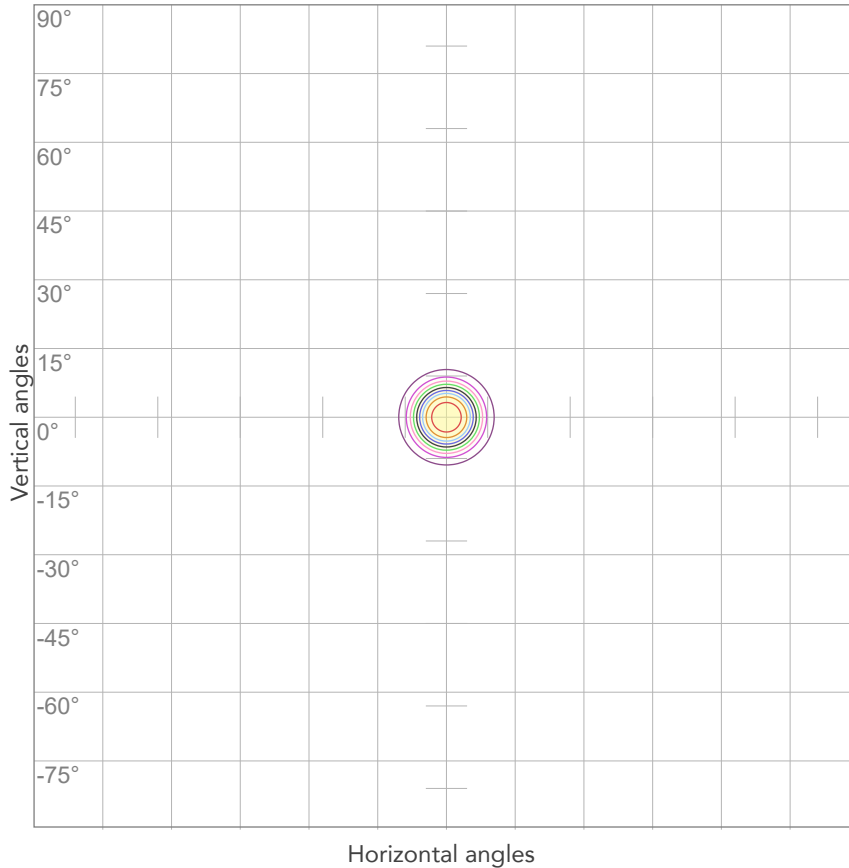
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,103A	20,7W	34lm/W

Power Fc
0,9



## ISO CANDELA DIAGRAM



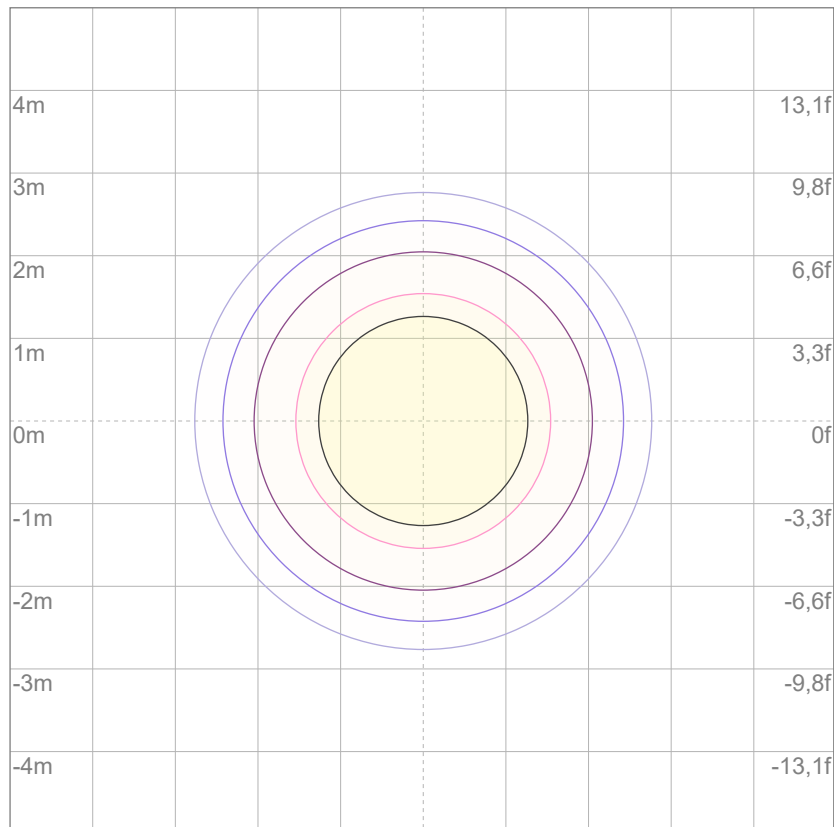
10%	1030 cd
20%	2061 cd
30%	3091 cd
40%	4121 cd
50%	5151 cd
60%	6182 cd
70%	7212 cd
80%	8242 cd

Conditions:

Number of c-planes: 2

Candela at center: 10303 cd

## ISO LUX DIAGRAM



3%	3,09 lx
5%	5,15 lx
10%	10,3 lx
30%	30,9 lx
50%	51,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 103 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

1163 lm

Peak candela output:

1530 cd

Light quality:

CRI: 92,2

Color temperature:

3029 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASUREMENT CONDITIONS:**

Beam angle:

Wash 2550 Max Zoom

Target:

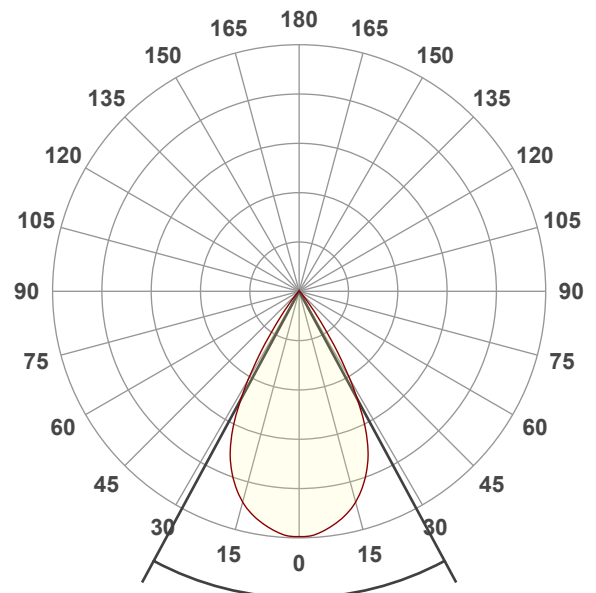
3000K

Operator:

Paolo Carvone

Date and time:

27/07/2022 15:03:59

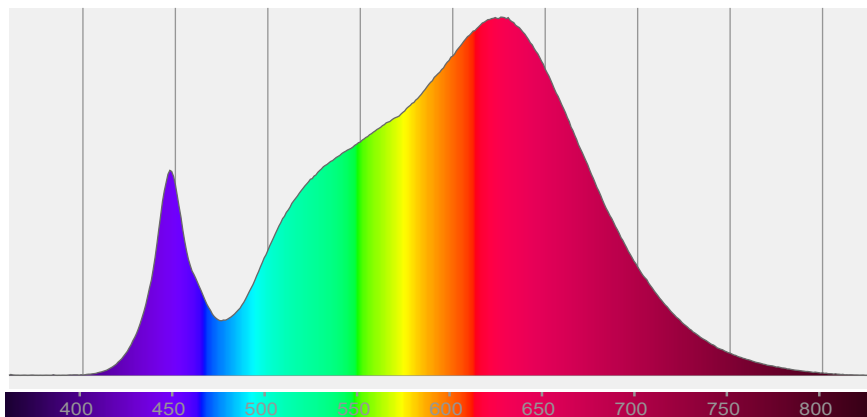


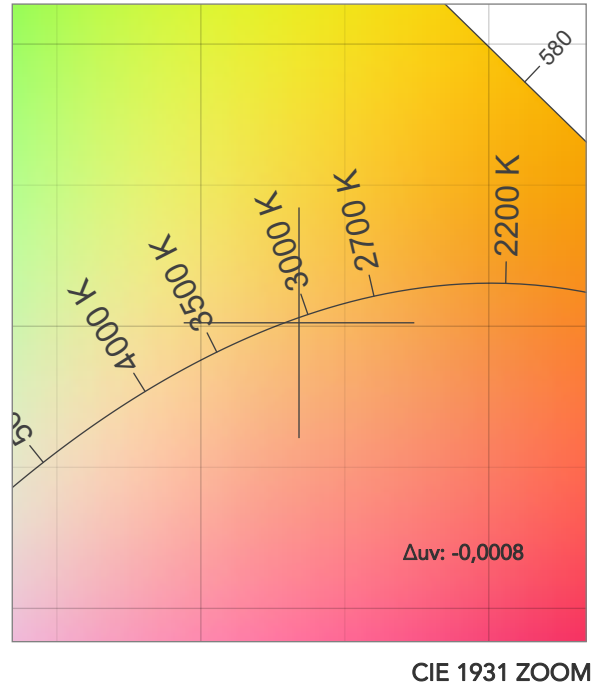
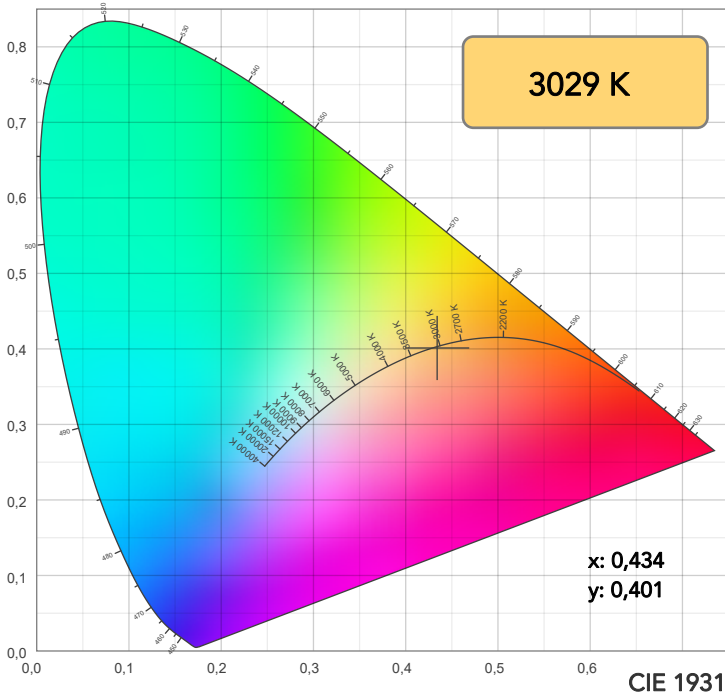
Beam angle 50%: 56,7°

Field angle 10%: 74,3°

Cut off angle 2.5%: 85°

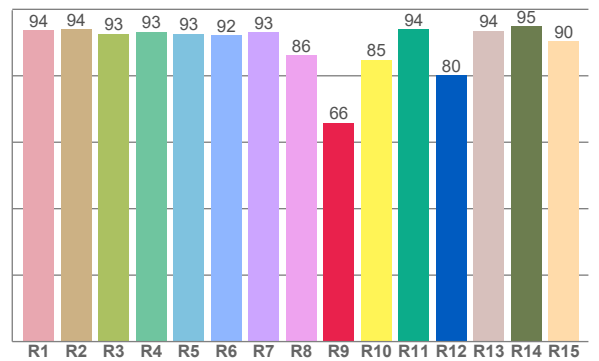
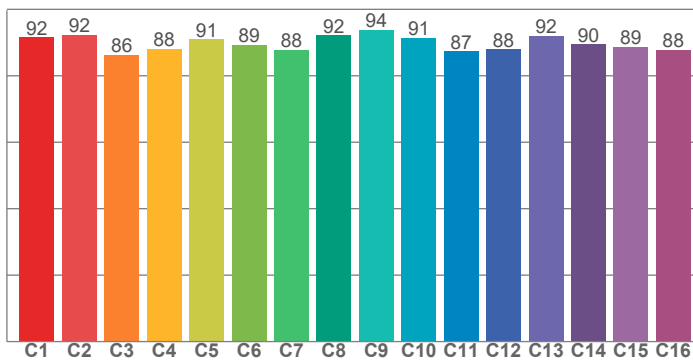
Spectra





TM30: 90,0

CRI: 92,2 (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
93,7	94,0	92,6	93,3	92,7	92,2	93,2	86,1	65,9	84,8	93,9	80,1	93,6	95,0	90,4

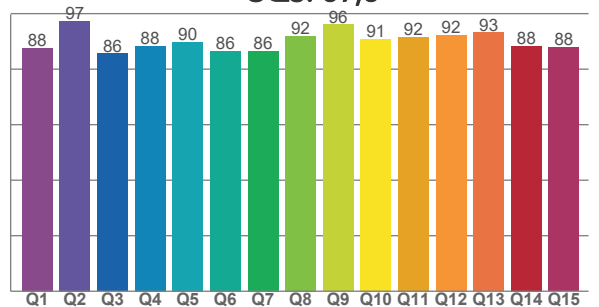
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,6	92,4	86,3	88,1	90,9	89,3	87,8	92,2	93,8	91,4	87,4	87,9	92,1	89,5	88,7	87,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,6	97,3	85,6	88,3	89,7	86,5	86,5	92,0	96,1	90,8	91,6	92,4	93,2	88,4	87,9

CQS: 89,6



COLOR PARAMETERS

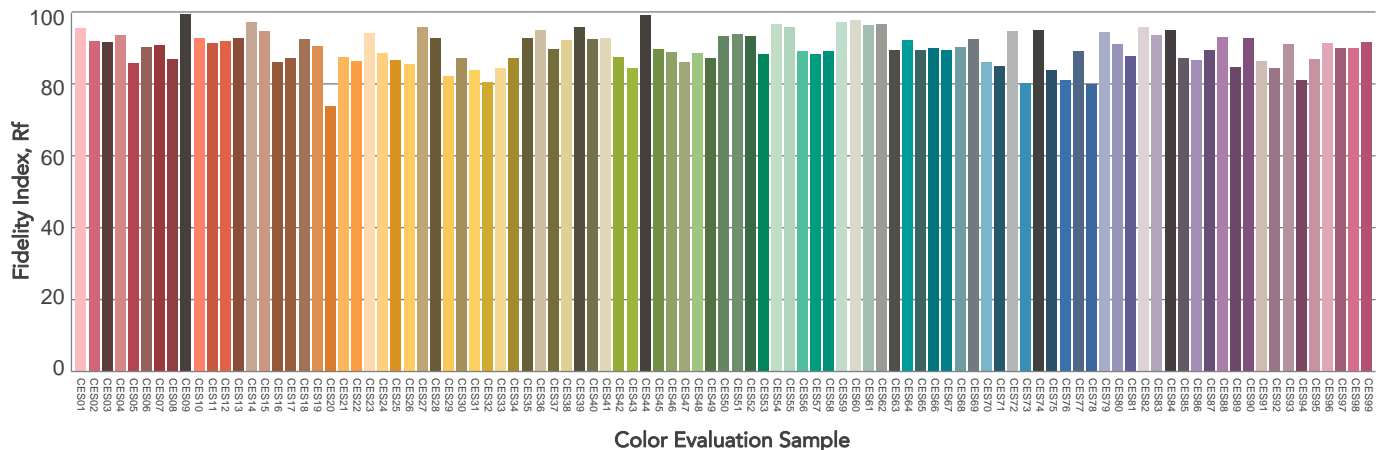
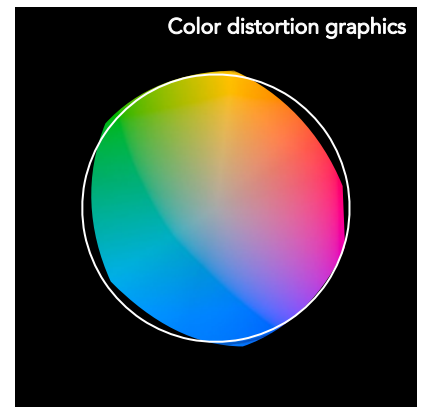
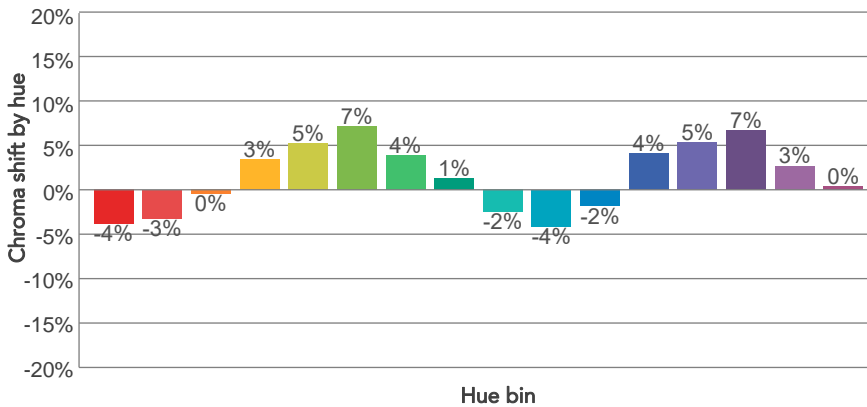
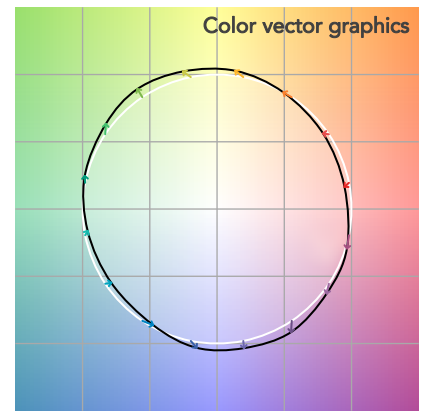
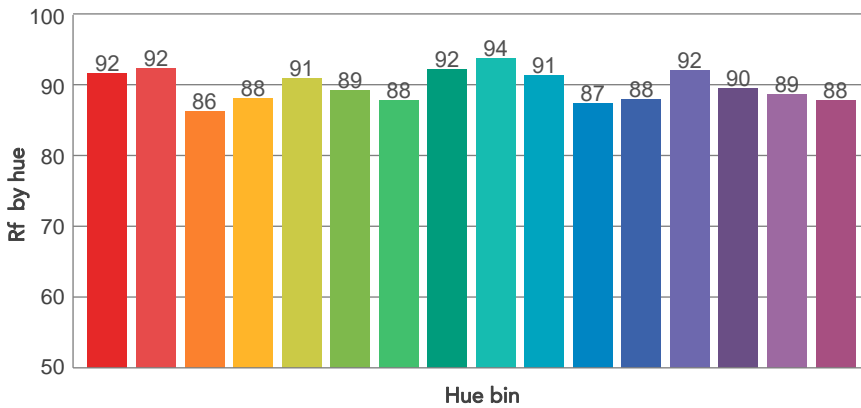
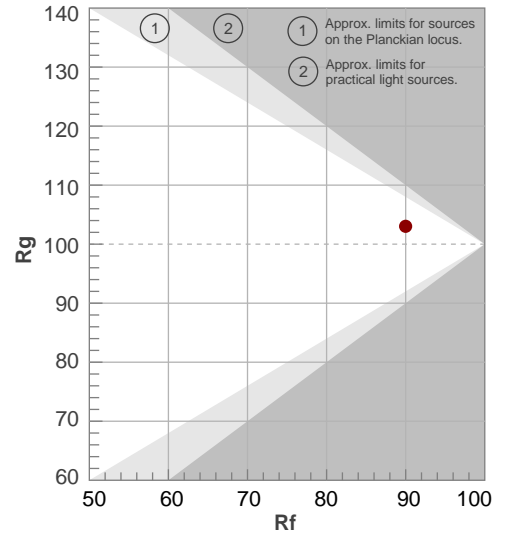
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3029 K	92,2	65,9	90,0	103,0	89,6	87	0,434	0,401	-0,0008

# TM30 DETAILS

**Rf 90,0**  
Fidelity index Rf

**Rg 103,0**  
Gammut index

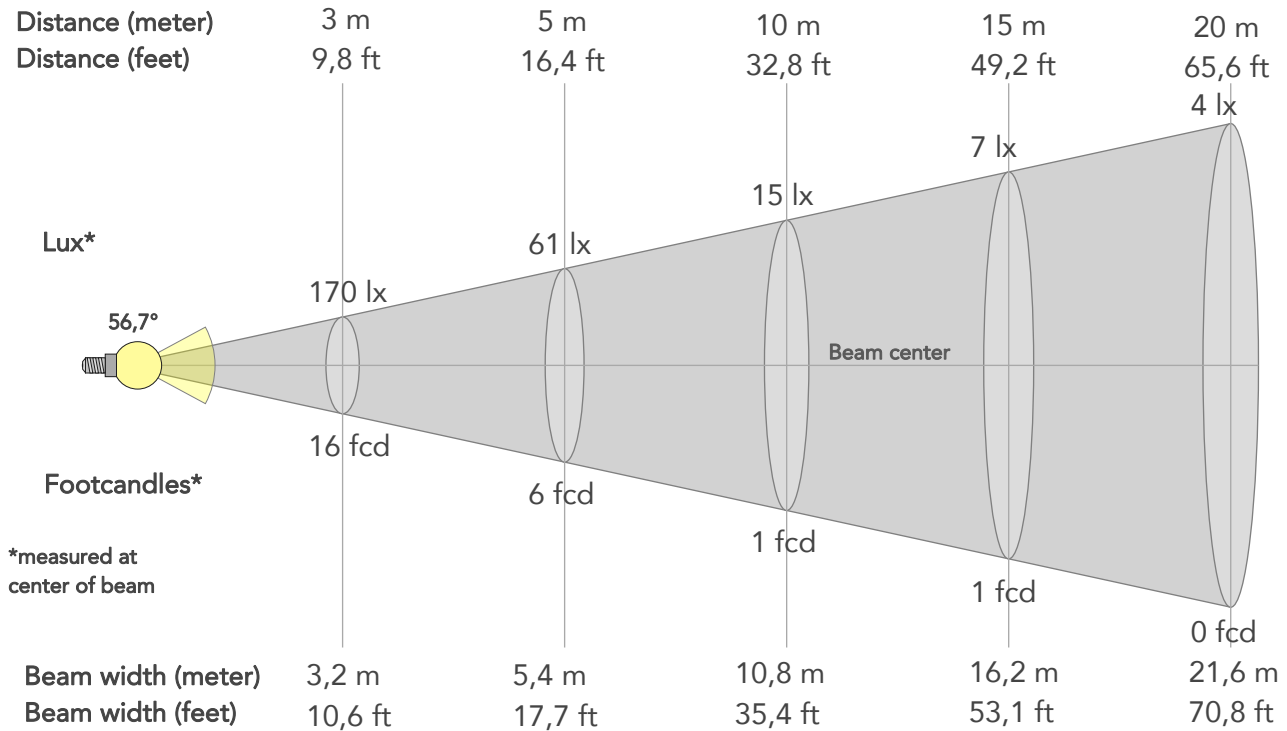
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-2%
2	92	-3%	3%
3	86	0%	7%
4	88	3%	7%
5	91	5%	5%
6	89	7%	0%
7	88	4%	-7%
8	92	1%	-5%
9	94	-2%	-3%
10	91	-4%	2%
11	87	-2%	8%
12	88	4%	5%
13	92	5%	0%
14	90	7%	-5%
15	89	3%	-7%
16	88	0%	-10%



# BEAM DETAILS



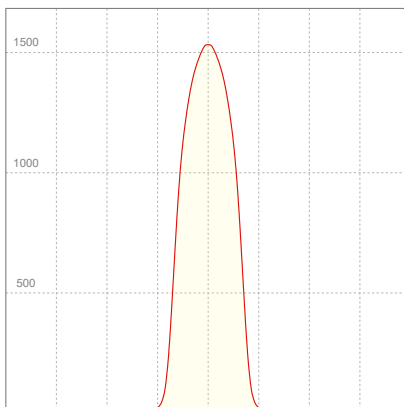
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
56,7°	74,3°	85°	100,0%	99,1%



## 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	1530lx	383lx	170lx	96lx	61lx	27lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	142fcd	36fcd	16fcd	9fcd	6fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,2m	4,3m	5,4m	8,1m	10,8m	16,2m	21,6m	27m	32,4m	43,2m	53,9m
Beam wid.	3,6ft	7,1ft	10,6ft	14,1ft	17,7ft	26,5ft	35,4ft	53,1ft	70,8ft	88,5ft	106,2ft	141,6ft	176,9ft

## LINEAR DISTRIBUTION DIAGRAM

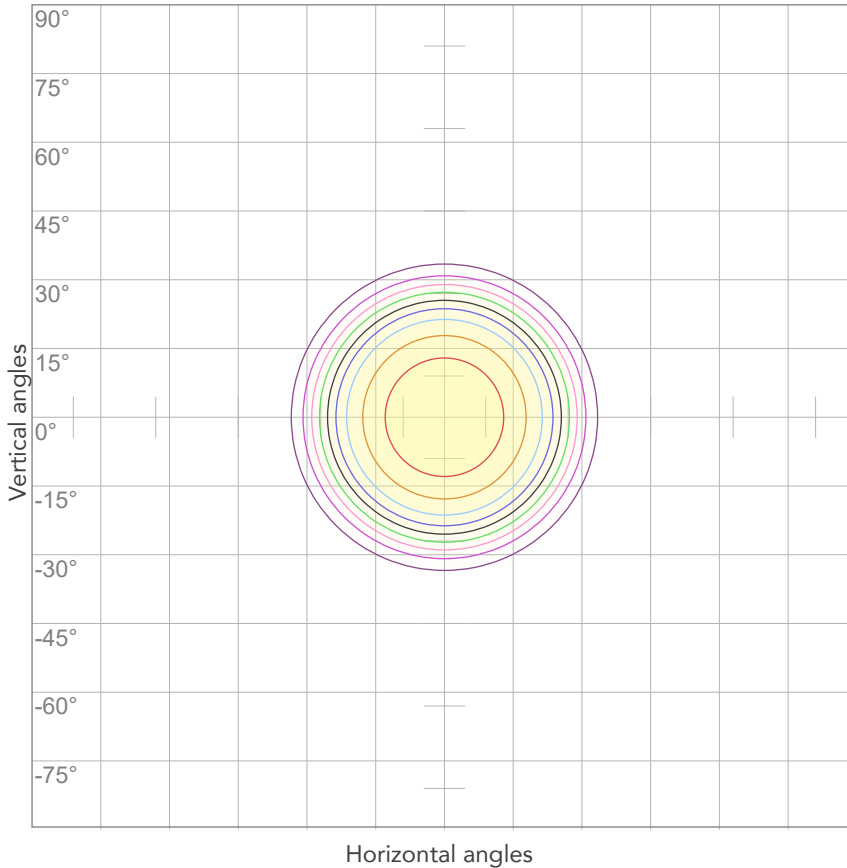


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,103A	20,7W	56lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



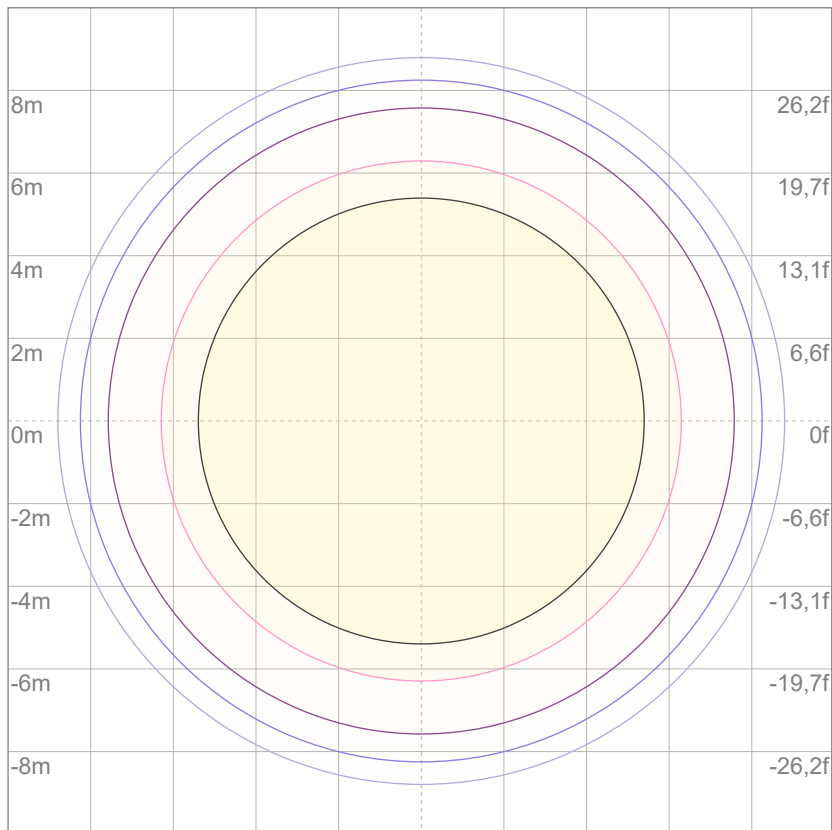
10%	153 cd
20%	306 cd
30%	459 cd
40%	612 cd
50%	765 cd
60%	918 cd
70%	1071 cd
80%	1224 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 1530 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,459 lx
5%	0,765 lx
10%	1,53 lx
30%	4,59 lx
50%	7,65 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 15,3 lx

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



Total lumen output:

576 lm

Peak candela output:

5181 cd

Light quality:

CRI: 92,5

Color temperature:

3007 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wash 2550 Min Zoom

Target:

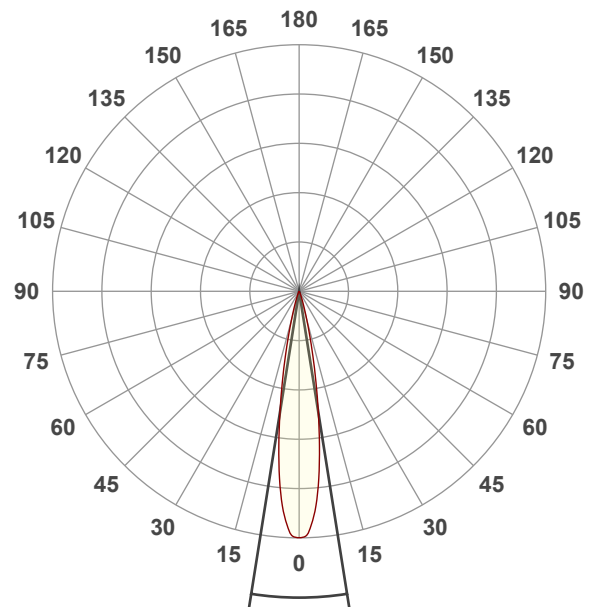
3000K

Operator:

Paolo Carvone

Date and time:

27/07/2022 15:05:49

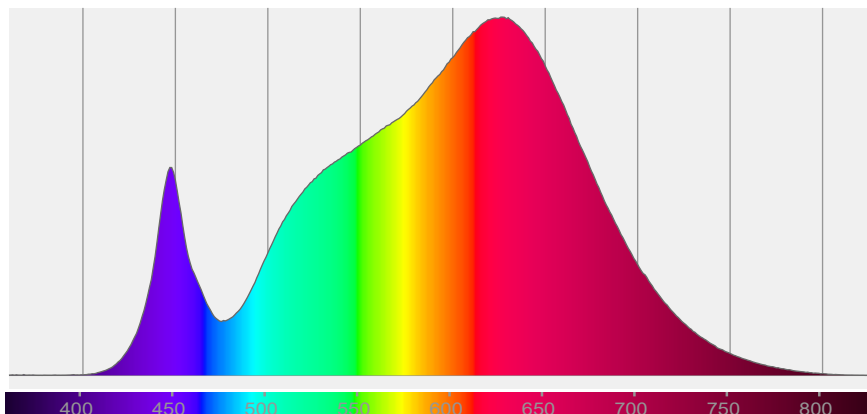


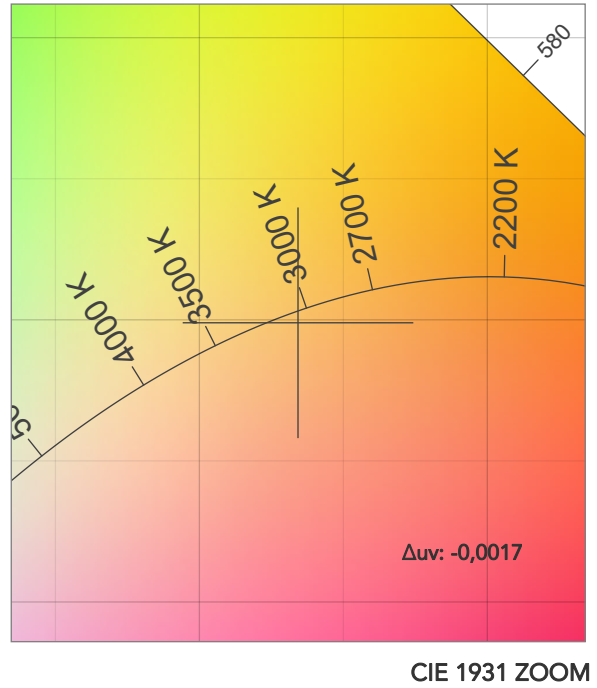
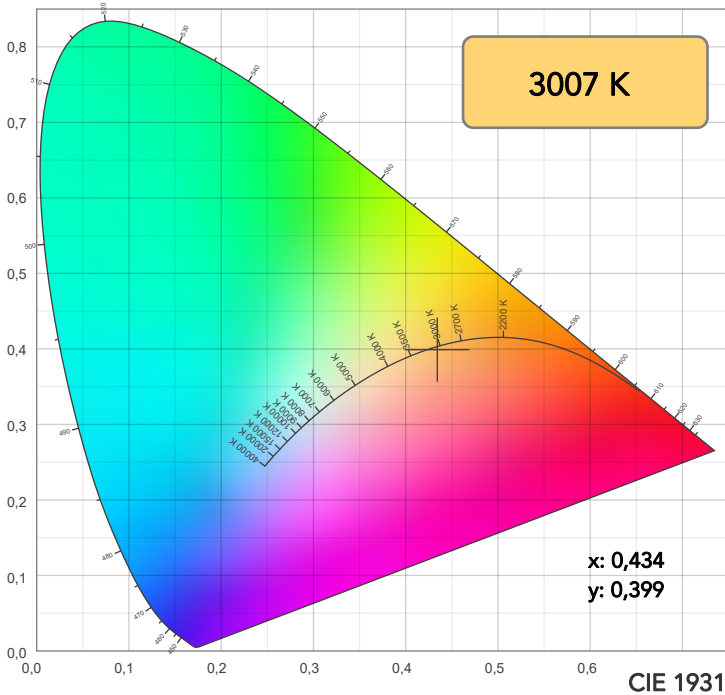
Beam angle 50%: 18°

Field angle 10%: 31,5°

Cut off angle 2.5%: 41,9°

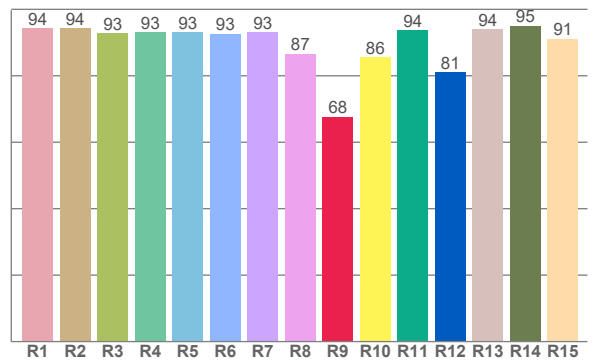
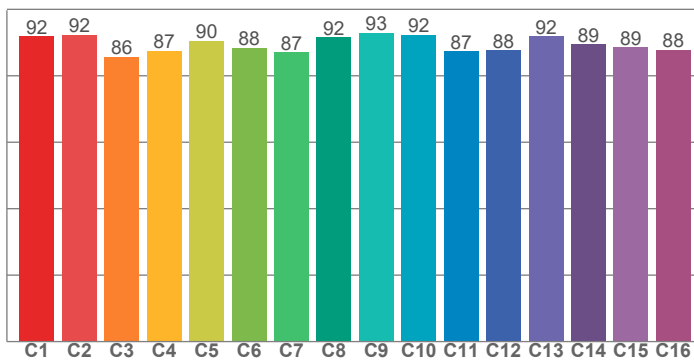
Spectra





TM30: 89,7

CRI: 92,5 (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
94,2	94,4	92,8	93,2	93,2	92,7	93,0	86,6	67,6	85,7	93,8	81,2	94,1	95,0	91,2

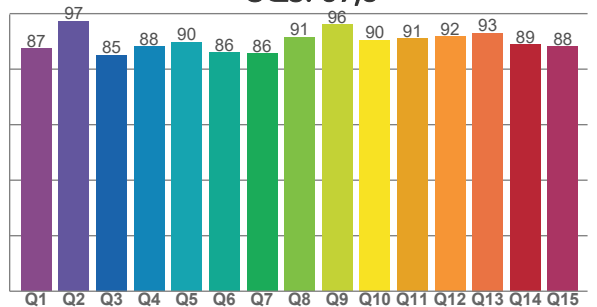
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,8	92,3	85,7	87,5	90,4	88,5	87,1	91,5	93,0	92,3	87,3	87,6	91,9	89,4	88,6	87,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,5	97,2	85,2	88,1	89,7	86,0	85,6	91,5	96,1	90,4	91,1	91,8	93,0	88,9	88,1

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	$\Delta uv$
3007 K	92,5	67,6	89,7	103,6	89,3	86	0,434	0,399	-0,0017

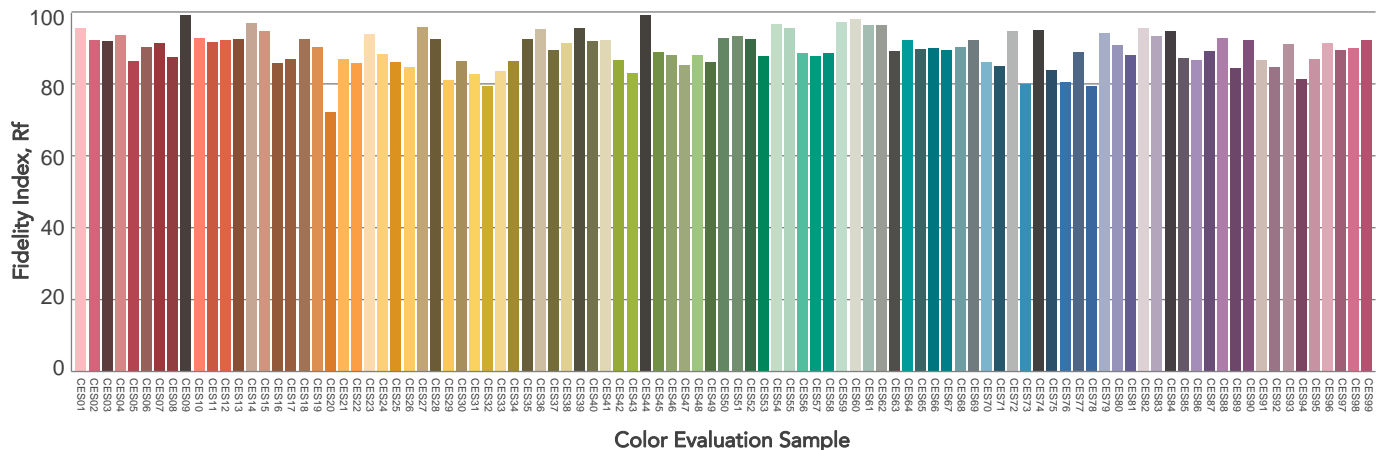
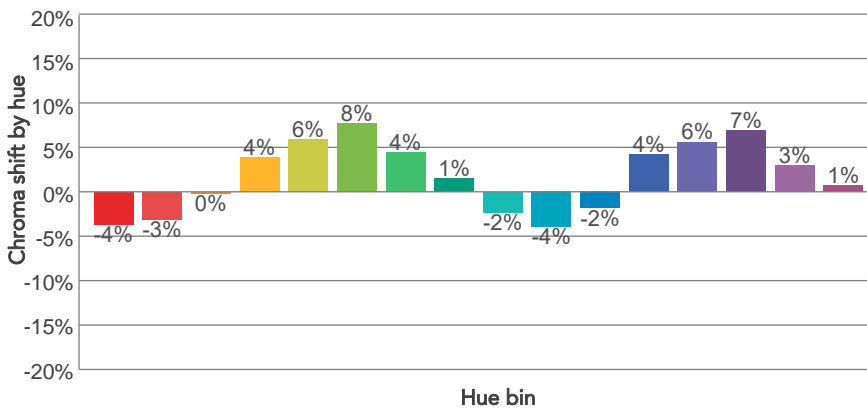
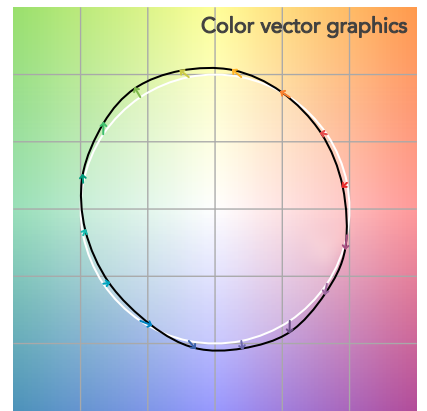
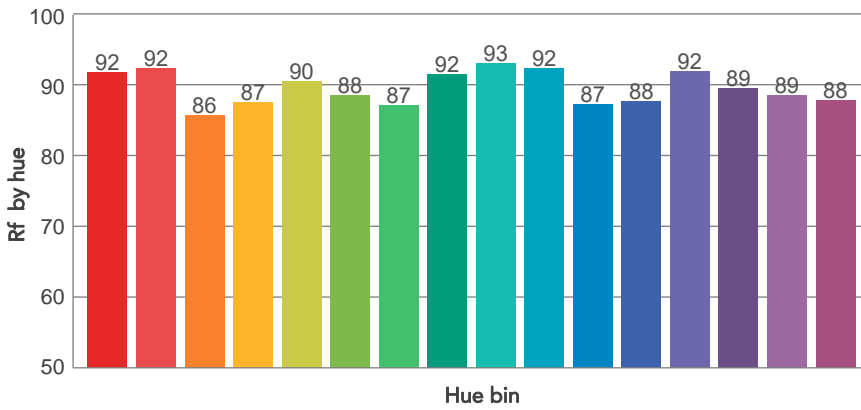
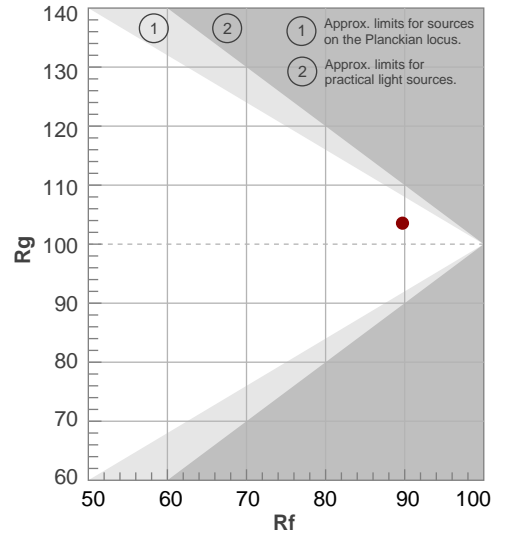


# TM30 DETAILS

**Rf 89,7**  
Fidelity index Rf

**Rg 103,6**  
Gammut index

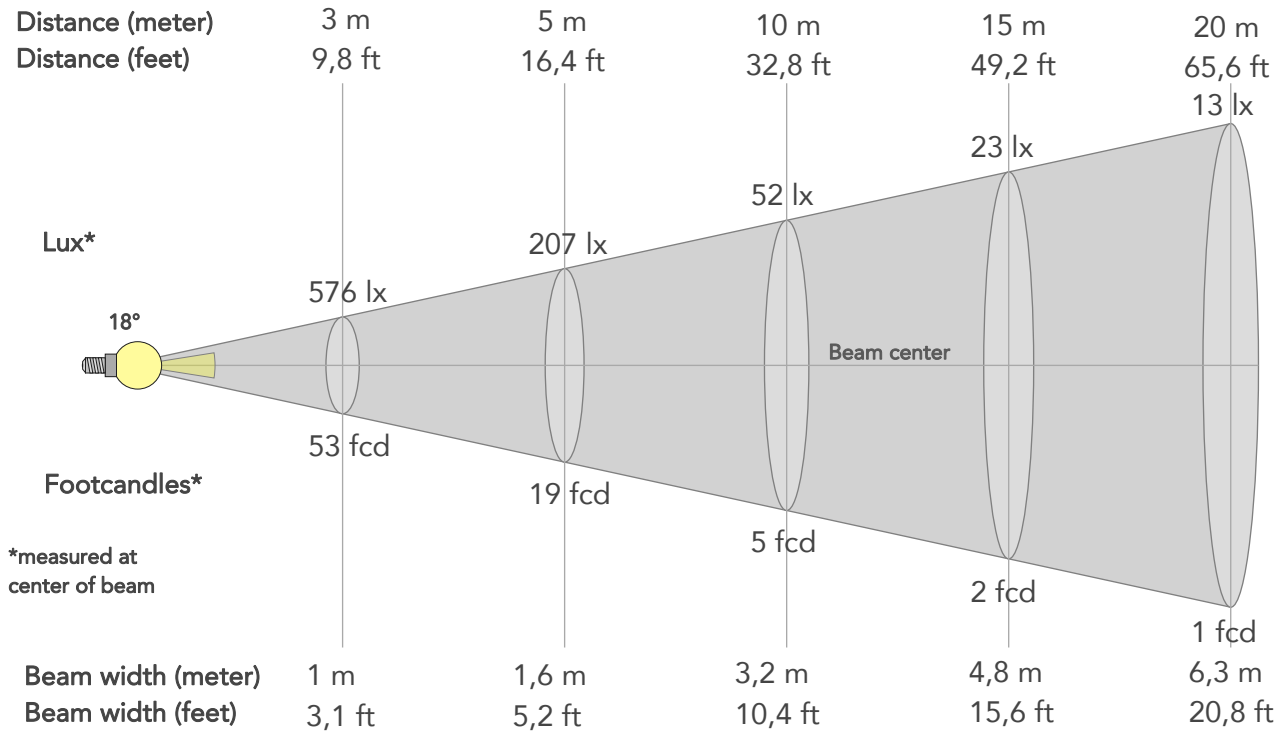
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-2%
2	92	-3%	3%
3	86	0%	8%
4	87	4%	7%
5	90	6%	5%
6	88	8%	0%
7	87	4%	-7%
8	92	1%	-5%
9	93	-2%	-3%
10	92	-4%	2%
11	87	-2%	8%
12	88	4%	5%
13	92	6%	0%
14	89	7%	-5%
15	89	3%	-7%
16	88	1%	-10%



# BEAM DETAILS



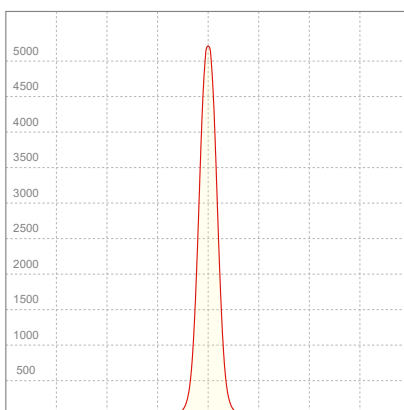
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18°	31,5°	41,9°	100,0%	100,0%



## 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	5181lx	1295lx	576lx	324lx	207lx	92lx	52lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	481fcd	120fcd	53fcd	30fcd	19fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	1m	1,3m	1,6m	2,4m	3,2m	4,8m	6,3m	7,9m	9,5m	12,7m	15,8m
Beam wid.	1ft	2,1ft	3,1ft	4,1ft	5,2ft	7,8ft	10,4ft	15,6ft	20,8ft	26ft	31,2ft	41,6ft	52ft

## LINEAR DISTRIBUTION DIAGRAM

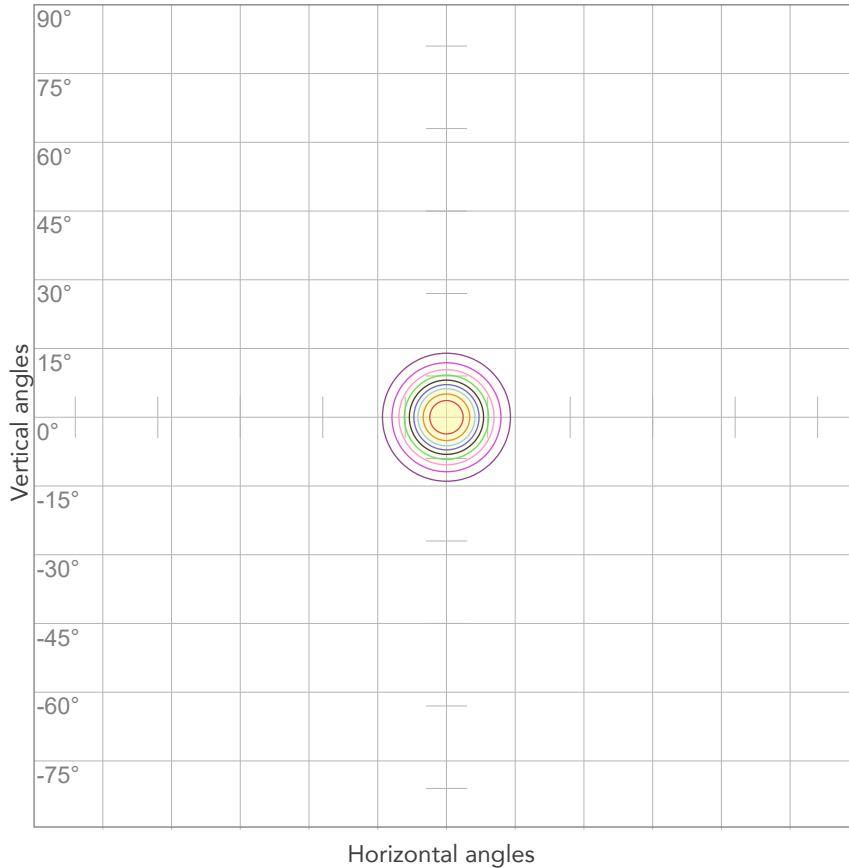


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,103A	20,7W	28lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



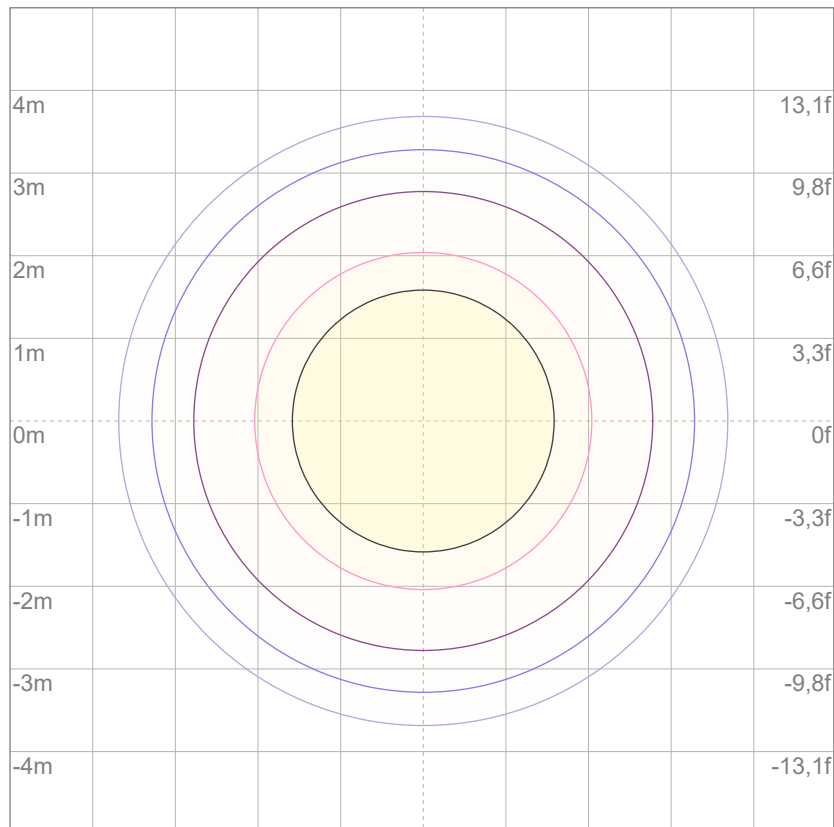
10%	518 cd
20%	1036 cd
30%	1554 cd
40%	2072 cd
50%	2590 cd
60%	3108 cd
70%	3626 cd
80%	4145 cd

Conditions:

Number of c-planes: 2

Candela at center: 5181 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,55 lx
5%	2,59 lx
10%	5,18 lx
30%	15,5 lx
50%	25,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 51,8 lx

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



Total lumen output:

1174 lm

Peak candela output:

3927 cd

Light quality:

CRI: 90,5

Color temperature:

4083 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASUREMENT CONDITIONS:**

Beam angle:

Wash 1530 Max Zoom

Target:

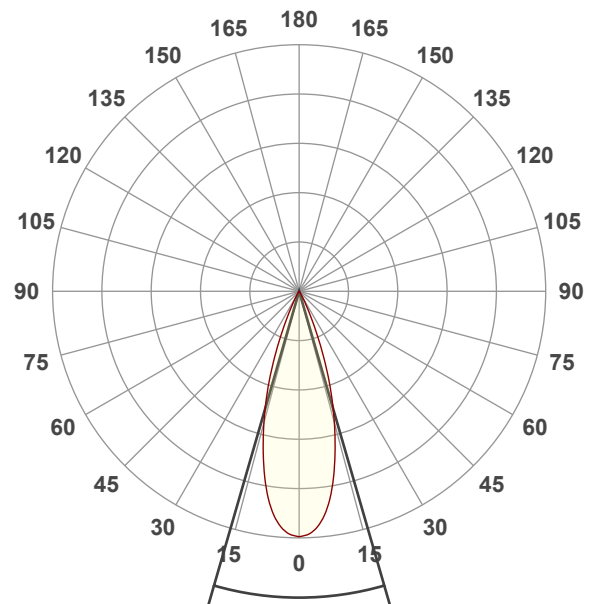
4000K

Operator:

Paolo Carvone

Date and time:

27/07/2022 15:30:08

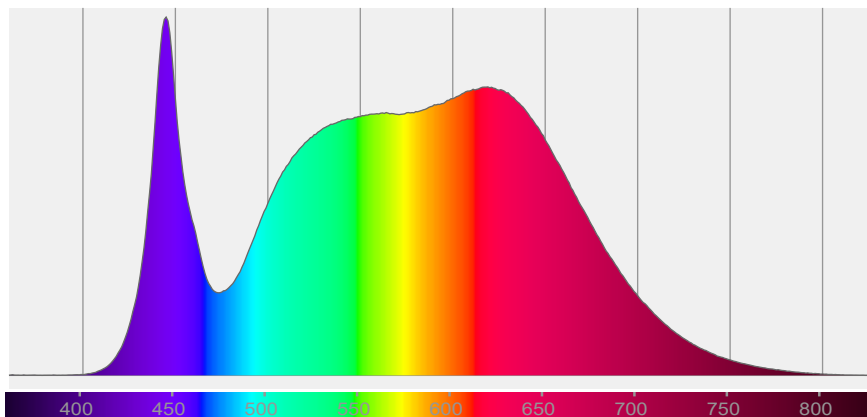


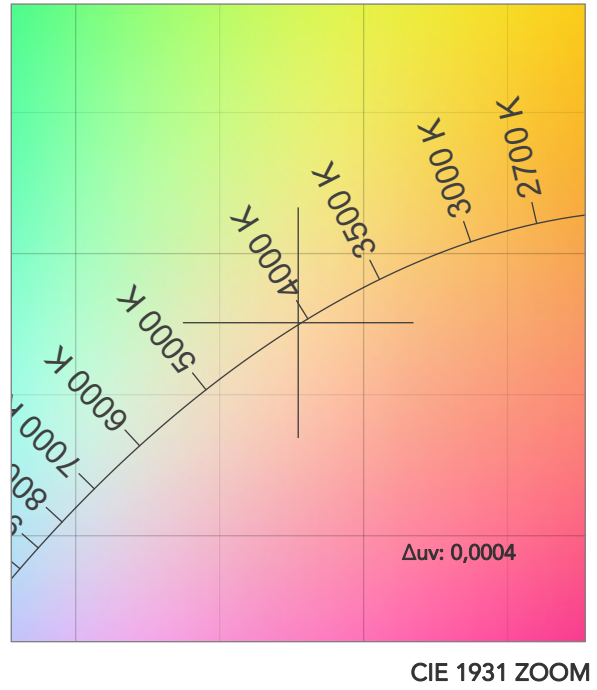
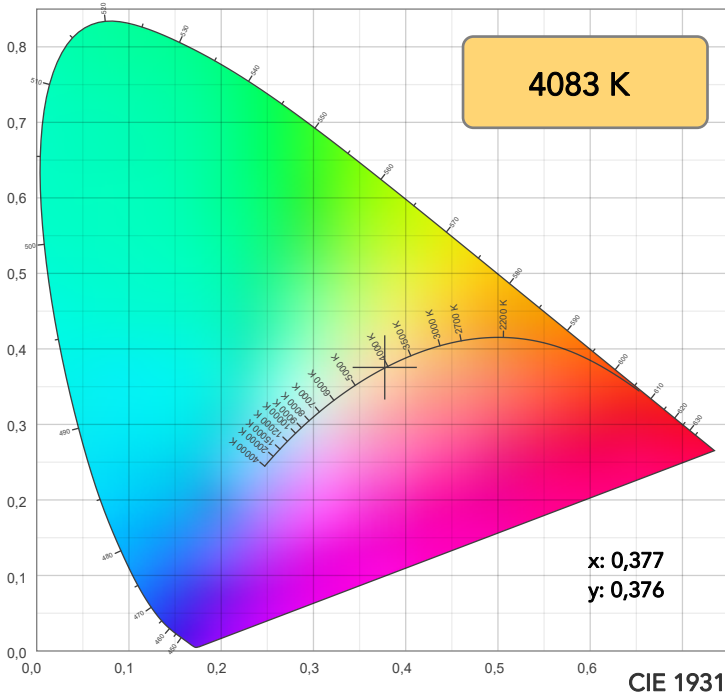
Beam angle 50%: 32,3°

Field angle 10%: 50,5°

Cut off angle 2.5%: 60,8°

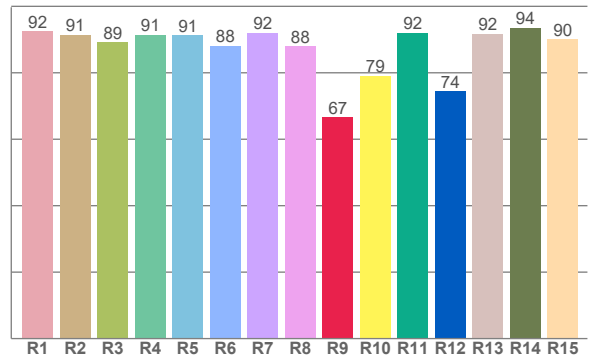
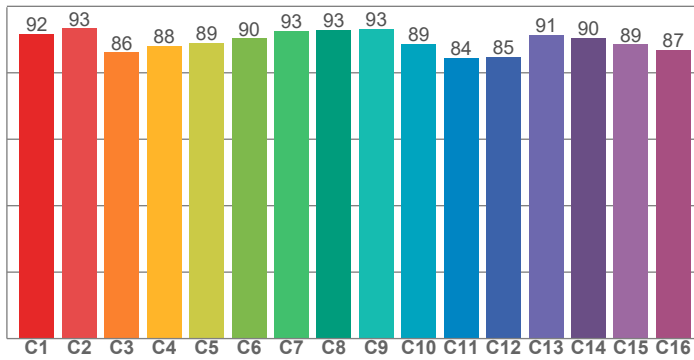
Spectra





TM30: 89,4

CRI: 90,5 (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
92,4	91,4	89,3	91,5	91,4	88,1	92,1	88,1	66,7	79,1	92,0	74,4	91,7	93,6	90,1

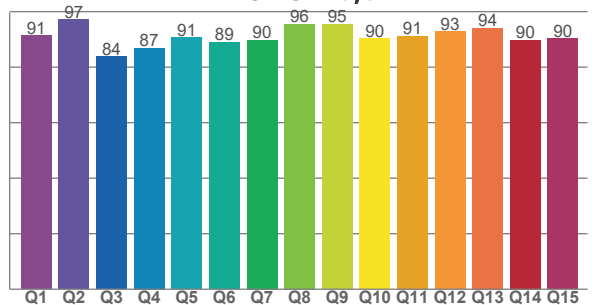
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,7	93,3	86,1	88,1	88,9	90,3	92,7	92,9	93,3	88,7	84,4	84,8	91,4	90,5	88,6	87,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,4	97,2	83,9	86,9	90,7	89,0	89,8	95,6	95,4	90,3	91,3	92,8	94,1	89,7	90,3

CQS: 90,6



COLOR PARAMETERS

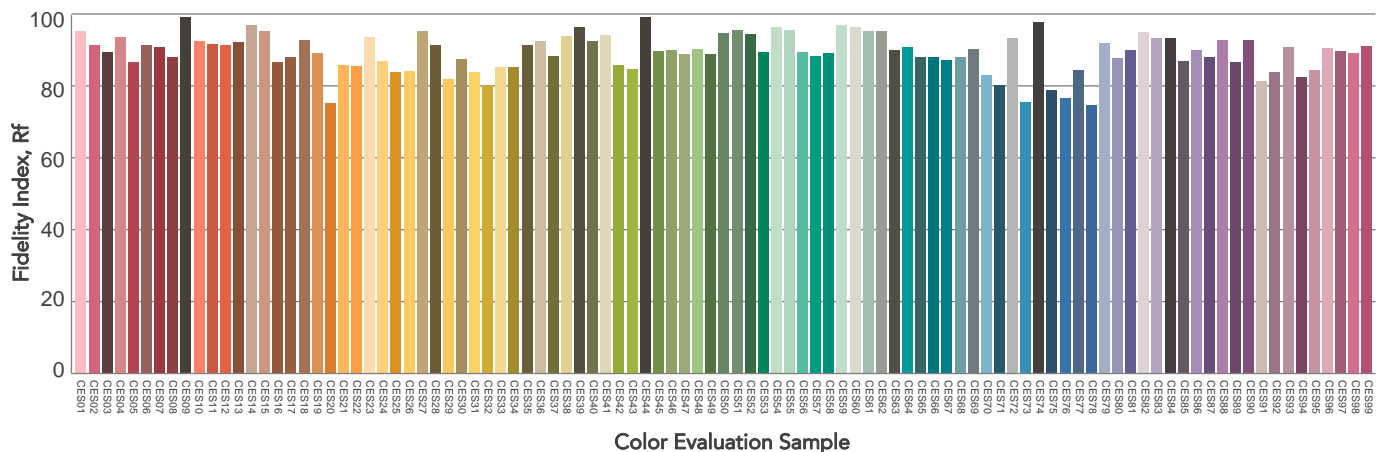
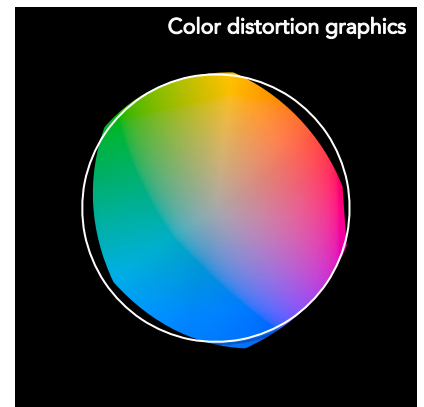
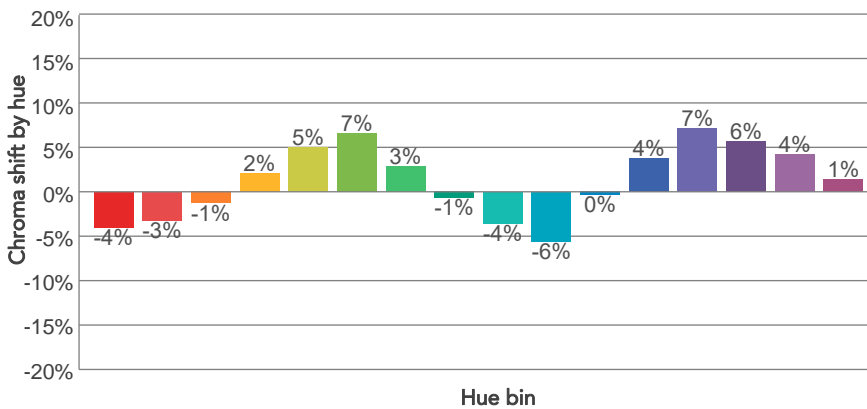
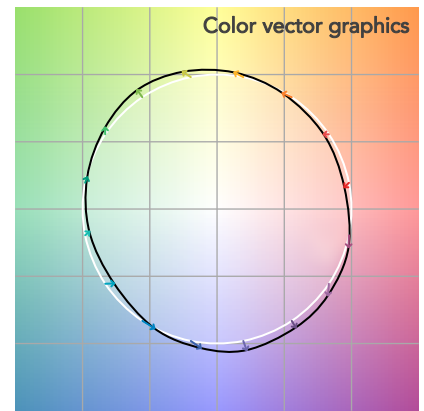
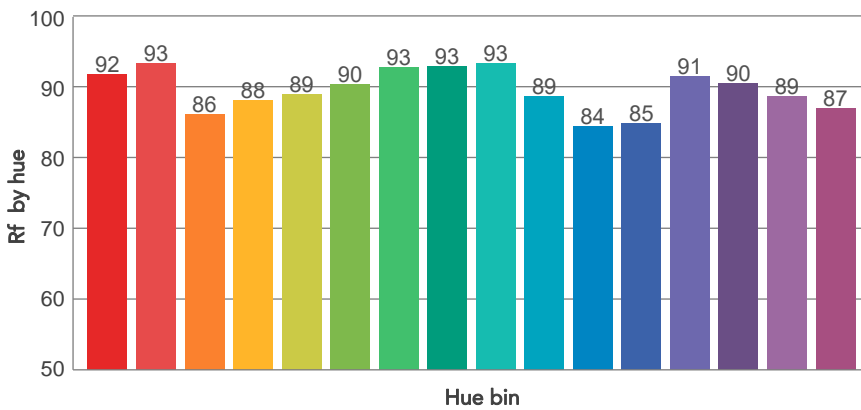
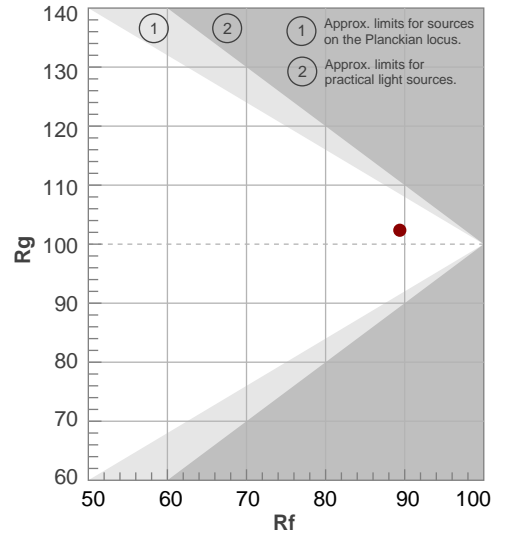
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4083 K	90,5	66,7	89,4	102,4	90,6	88	0,377	0,376	0,0004

# TM30 DETAILS

**Rf 89,4**  
Fidelity index Rf

**Rg 102,4**  
Gammut index

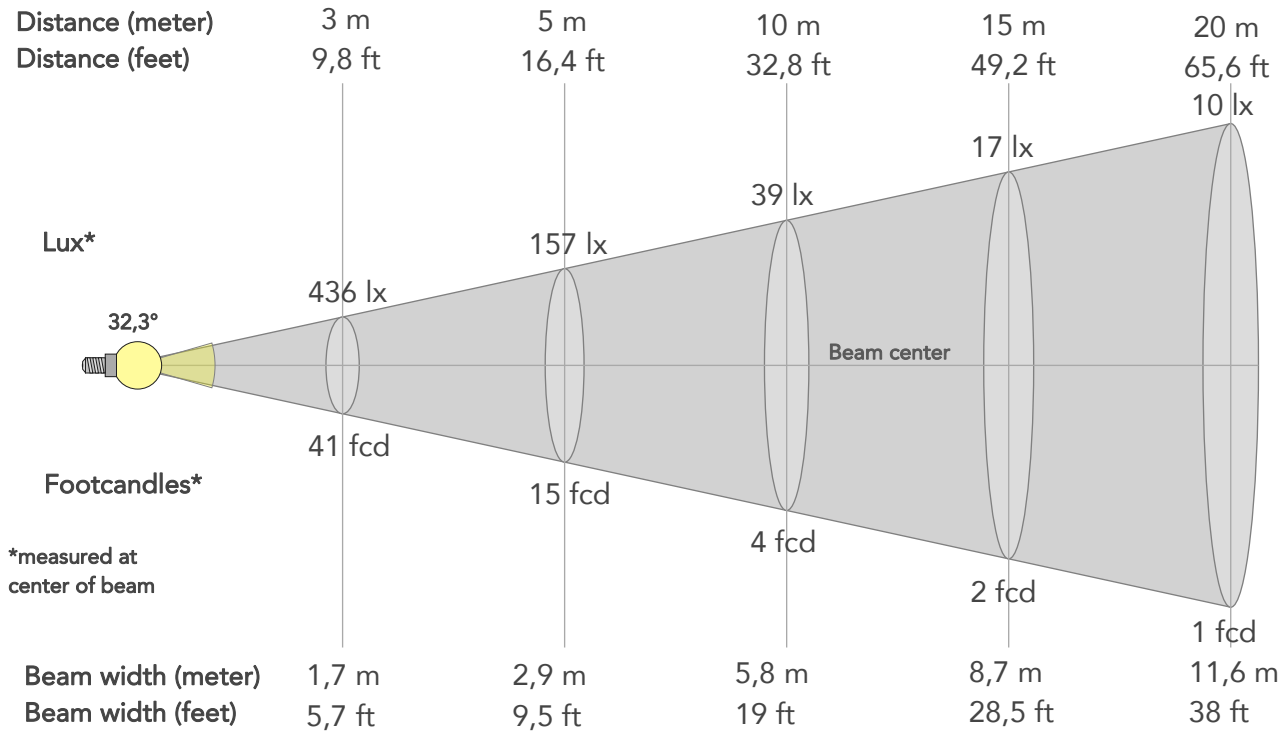
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-3%
2	93	-3%	2%
3	86	-1%	7%
4	88	2%	7%
5	89	5%	5%
6	90	7%	0%
7	93	3%	-4%
8	93	-1%	-4%
9	93	-4%	-2%
10	89	-6%	3%
11	84	0%	11%
12	85	4%	8%
13	91	7%	1%
14	90	6%	0%
15	89	4%	-7%
16	87	1%	-9%



# BEAM DETAILS



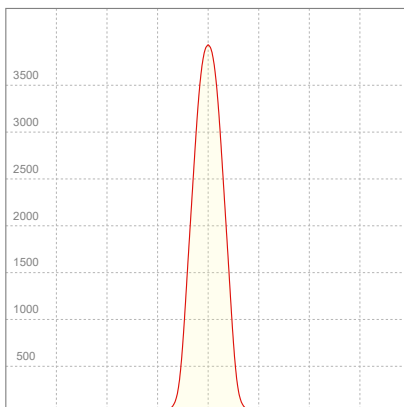
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,3°	50,5°	60,8°	100,0%	99,8%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3927lx	982lx	436lx	245lx	157lx	70lx	39lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	365fcd	91fcd	41fcd	23fcd	15fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,7m	2,3m	2,9m	4,3m	5,8m	8,7m	11,6m	14,5m	17,4m	23,1m	28,9m
Beam wid.	1,9ft	3,8ft	5,7ft	7,6ft	9,5ft	14,2ft	19ft	28,5ft	38ft	47,5ft	56,9ft	75,9ft	94,9ft

## LINEAR DISTRIBUTION DIAGRAM

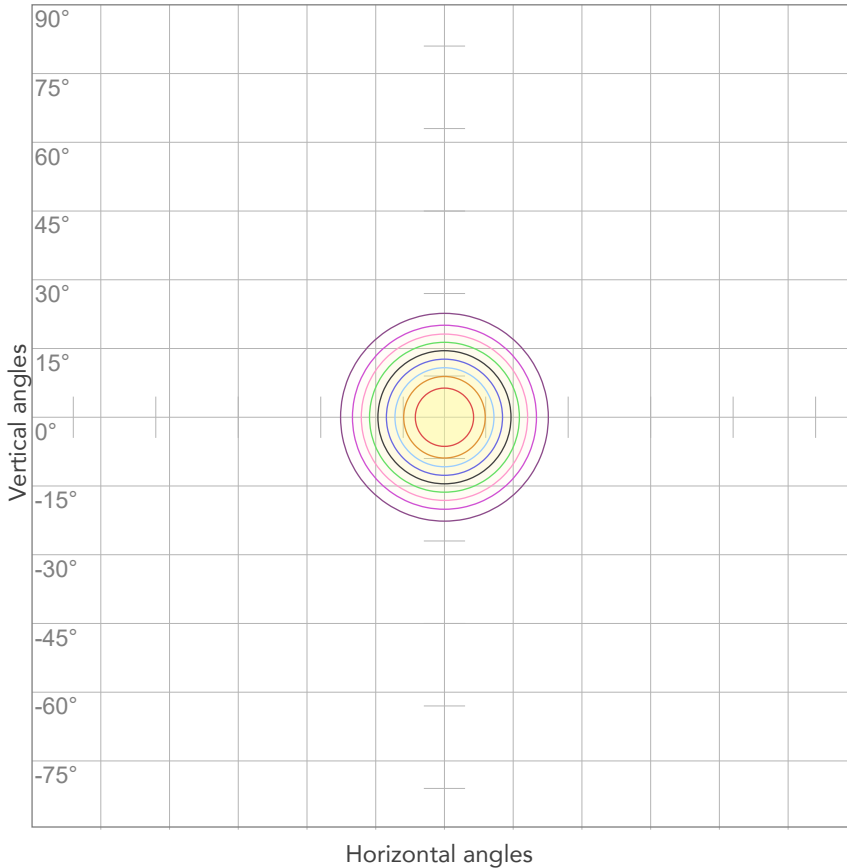


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,104A	21,1W	56lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



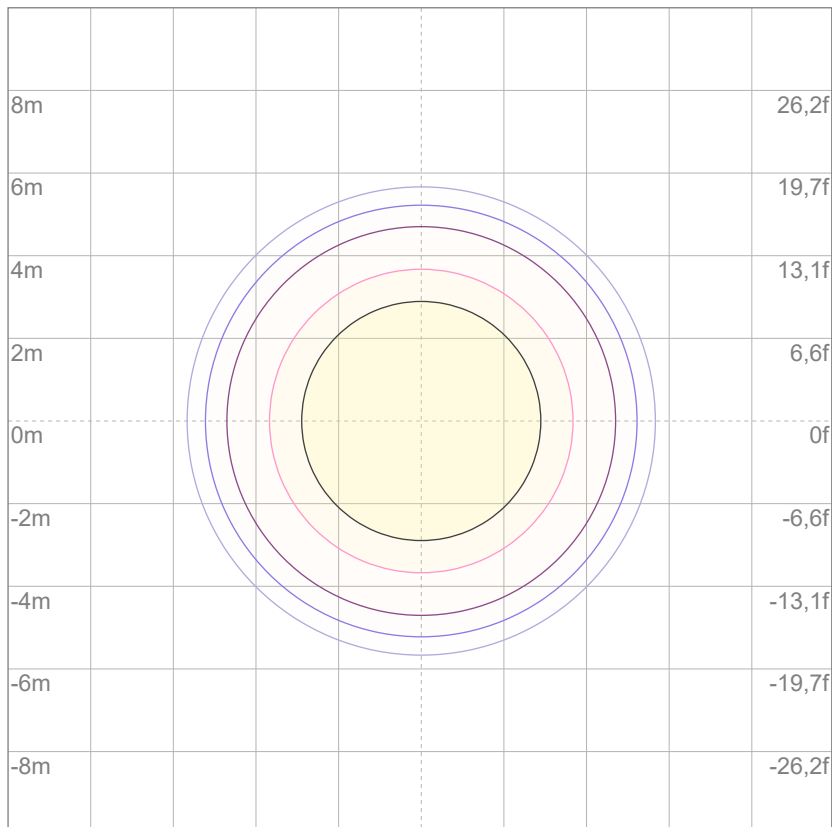
10%	393 cd
20%	785 cd
30%	1178 cd
40%	1571 cd
50%	1964 cd
60%	2356 cd
70%	2749 cd
80%	3142 cd

Conditions:

Number of c-planes: 2

Candela at center: 3927 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,18 lx
5%	1,96 lx
10%	3,93 lx
30%	11,8 lx
50%	19,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 39,3 lx

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





Total lumen output:

768 lm

Peak candela output:

11180 cd

Light quality:

CRI: 90,7

Color temperature:

4033 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wash 1530 Min Zoom

Target:

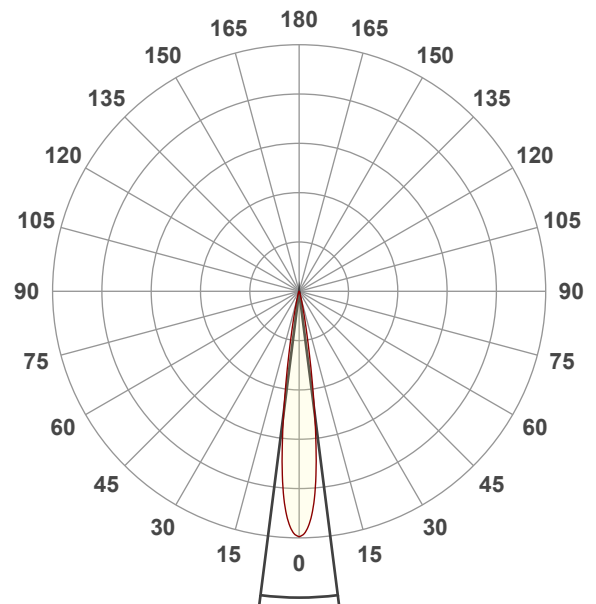
4000K

Operator:

Paolo Carvone

Date and time:

27/07/2022 15:28:17

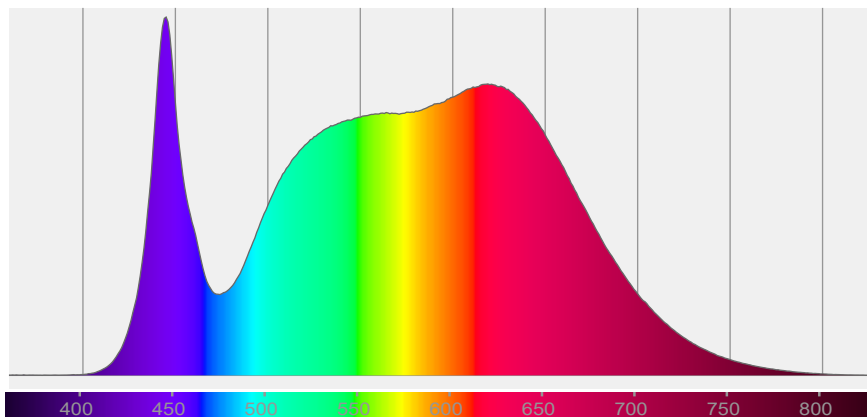


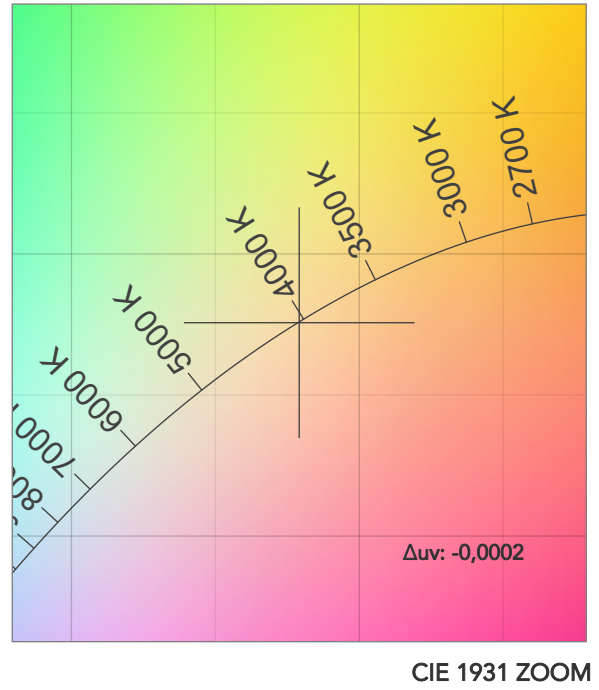
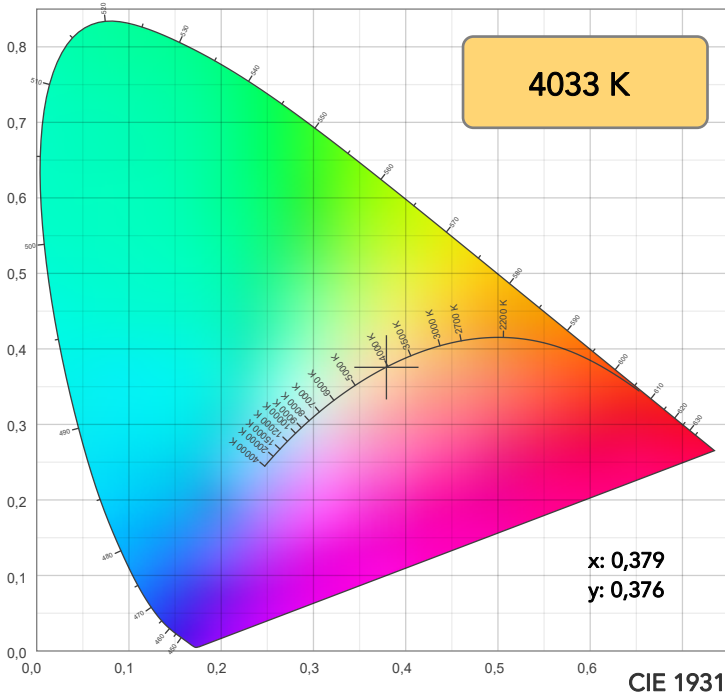
Beam angle 50%: 14,5°

Field angle 10%: 23,7°

Cut off angle 2.5%: 32,6°

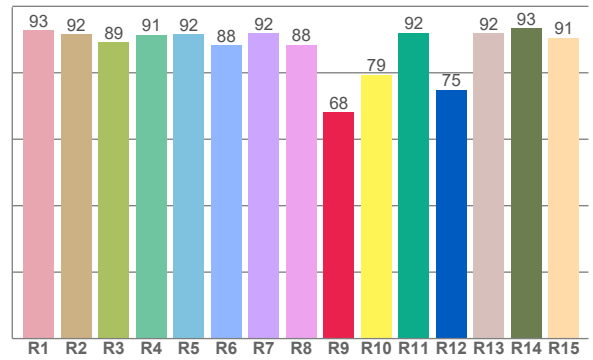
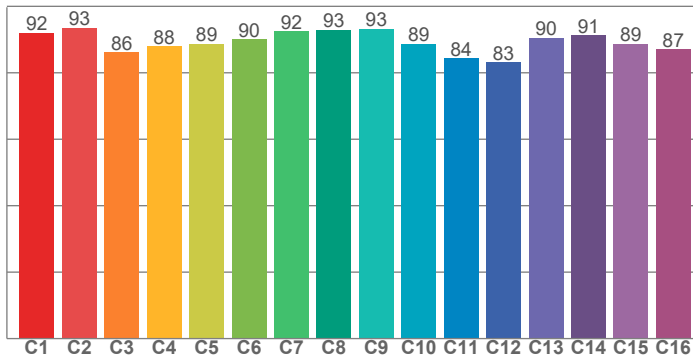
Spectra





TM30: 89,4

CRI: 90,7 (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
92,7	91,6	89,2	91,4	91,6	88,3	92,0	88,4	68,1	79,4	92,0	74,9	92,0	93,5	90,6

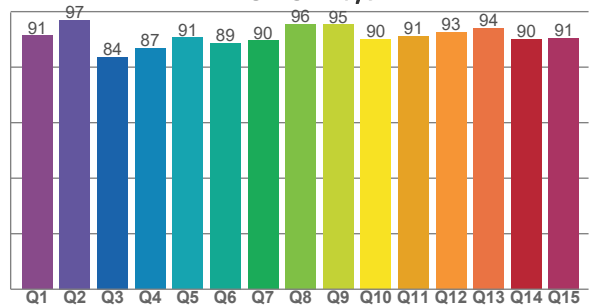
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,0	93,5	86,2	88,0	88,8	90,1	92,5	92,9	93,3	88,8	84,4	83,1	90,4	91,3	88,7	87,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,4	97,0	83,7	86,8	90,6	88,7	89,5	95,5	95,3	90,1	91,1	92,7	94,1	90,0	90,5

CQS: 90,5



COLOR PARAMETERS

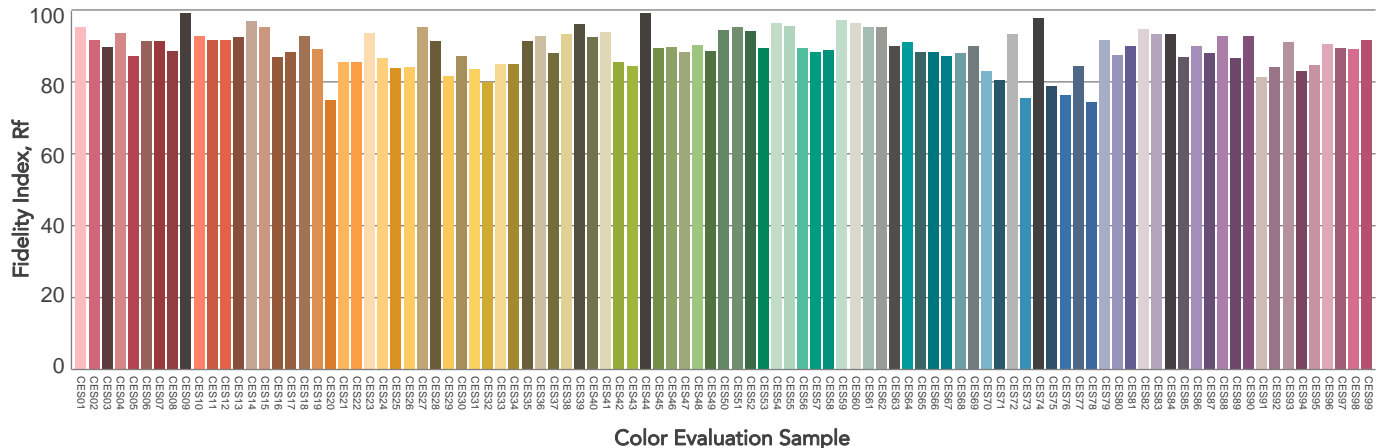
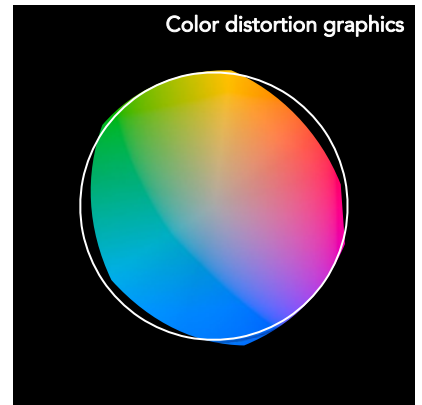
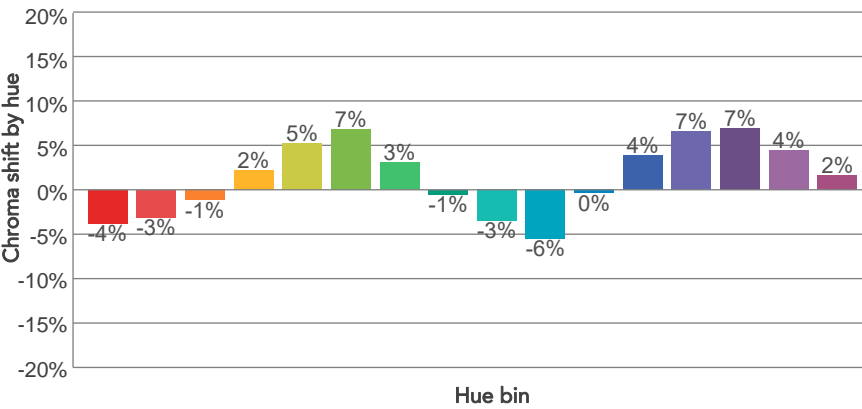
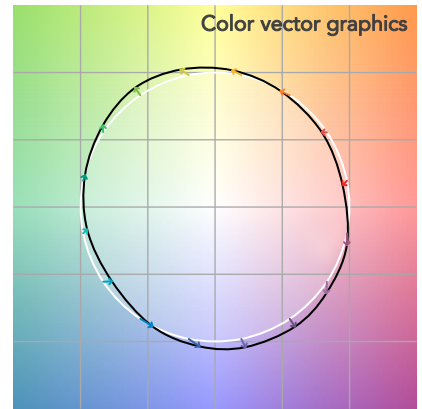
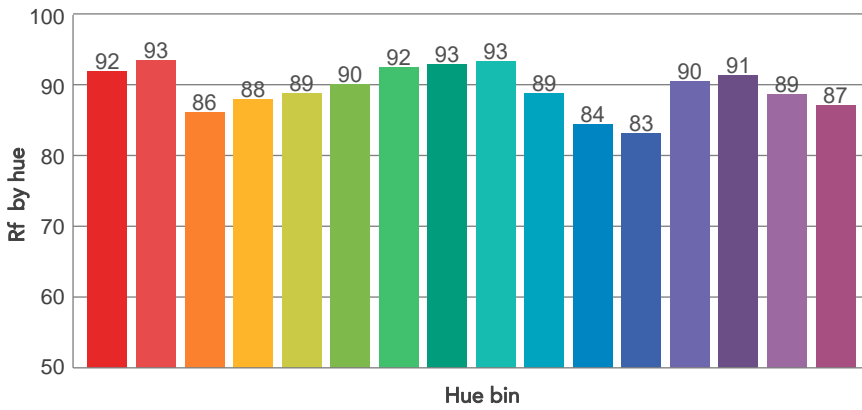
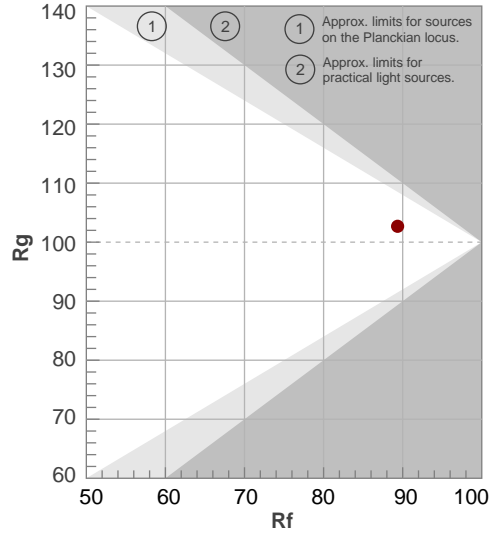
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4033 K	90,7	68,1	89,4	102,7	90,5	88	0,379	0,376	-0,0002

# TM30 DETAILS

**Rf 89,4**  
Fidelity index Rf

**Rg 102,7**  
Gammut index

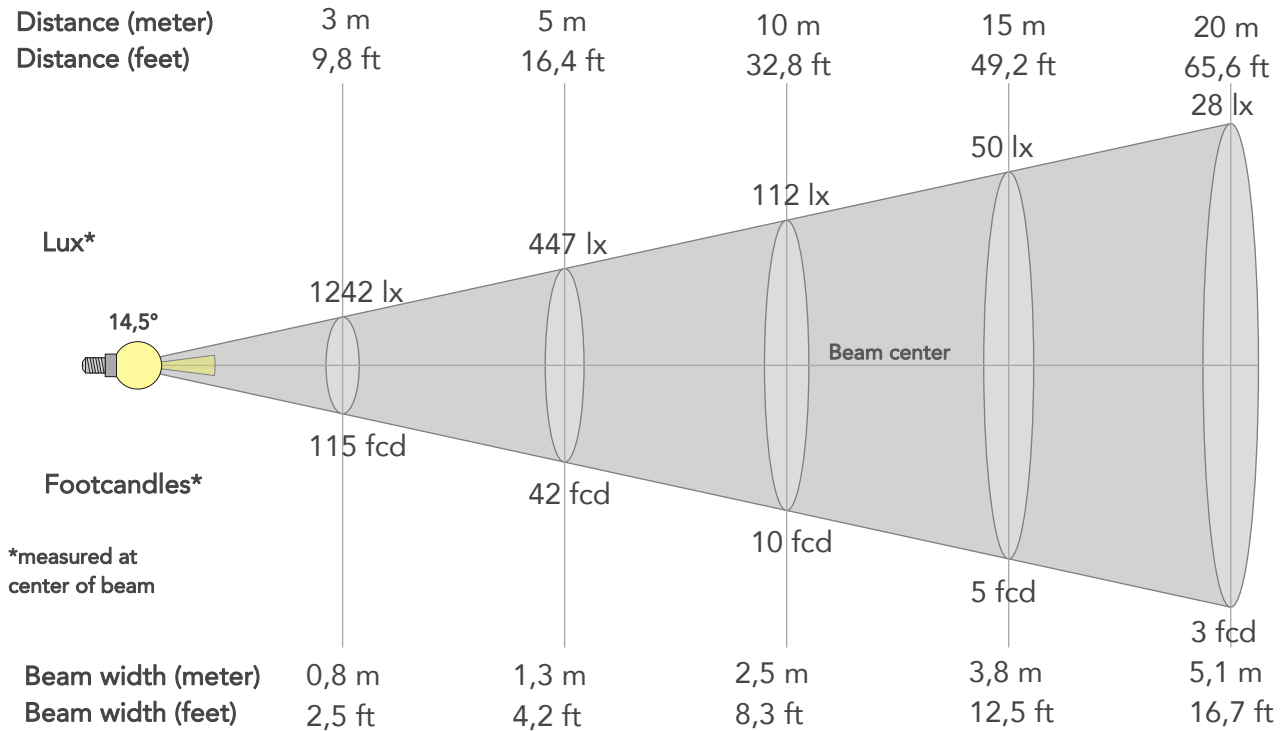
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-3%
2	93	-3%	2%
3	86	-1%	7%
4	88	2%	7%
5	89	5%	5%
6	90	7%	0%
7	92	3%	-4%
8	93	-1%	-4%
9	93	-3%	-2%
10	89	-6%	3%
11	84	0%	11%
12	83	4%	9%
13	90	7%	2%
14	91	7%	0%
15	89	4%	-7%
16	87	2%	-9%



# BEAM DETAILS



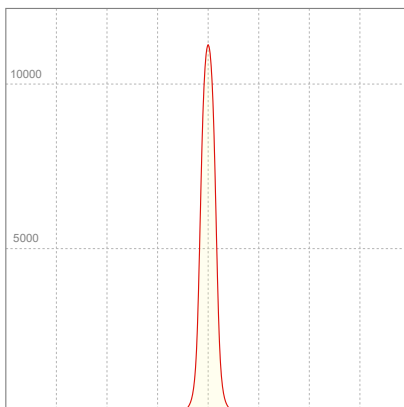
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,5°	23,7°	32,6°	100,0%	100,0%



## 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	11180lx	2795lx	1242lx	699lx	447lx	199lx	112lx	50lx	28lx	18lx	12lx	7lx	4lx
Footcand.	1039fcd	260fcd	115fcd	65fcd	42fcd	18fcd	10fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,5m	3,8m	5,1m	6,4m	7,6m	10,2m	12,7m
Beam wid.	0,8ft	1,7ft	2,5ft	3,3ft	4,2ft	6,3ft	8,3ft	12,5ft	16,7ft	20,9ft	25ft	33,4ft	41,7ft

## LINEAR DISTRIBUTION DIAGRAM

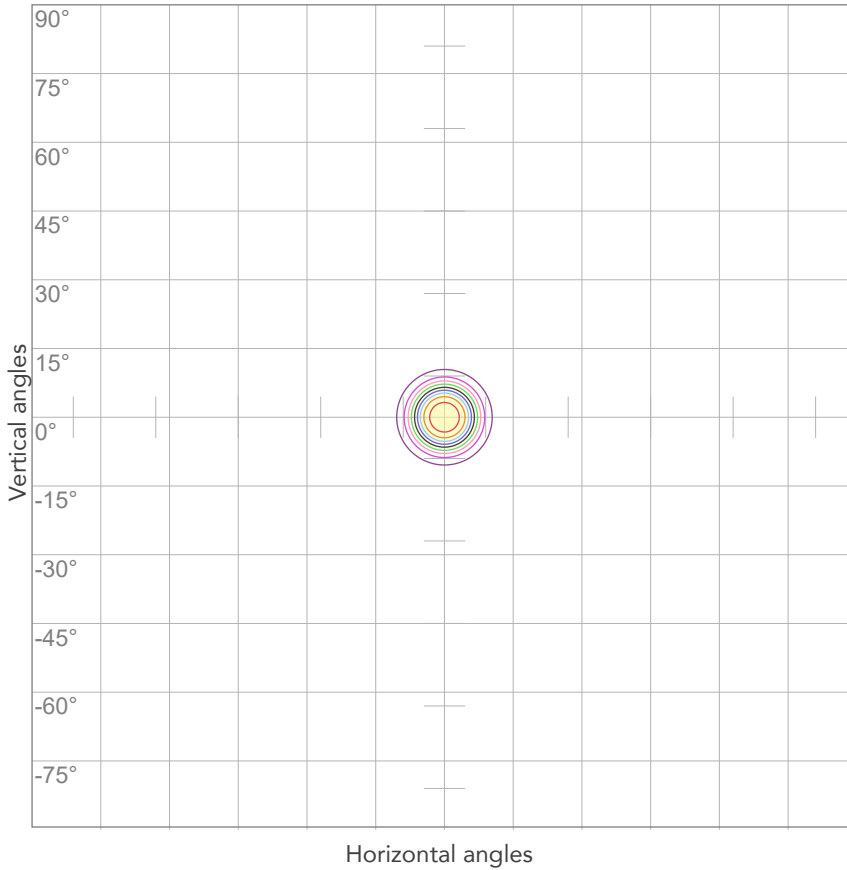


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,104A	21,1W	36lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



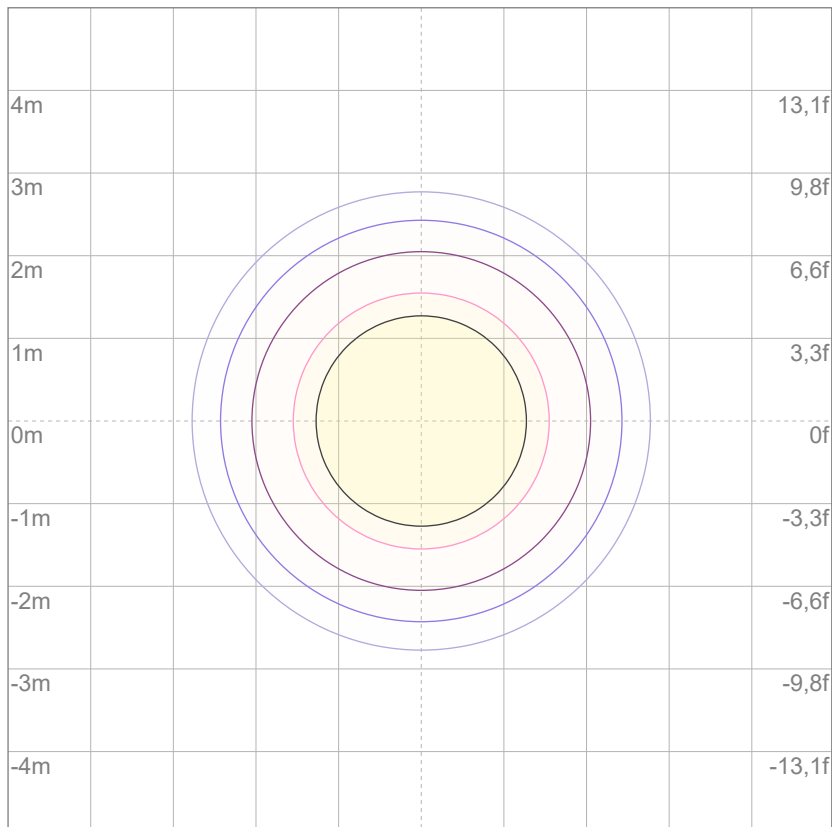
10%	1118 cd
20%	2236 cd
30%	3354 cd
40%	4472 cd
50%	5590 cd
60%	6708 cd
70%	7826 cd
80%	8944 cd

Conditions:

Number of c-planes: 2

Candela at center: 11180 cd

## ISO LUX DIAGRAM



3%	3,35 lx
5%	5,59 lx
10%	11,2 lx
30%	33,5 lx
50%	55,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 112 lx

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



Total lumen output:

1251 lm

Peak candela output:

1636 cd

Light quality:

CRI: 91,0

Color temperature:

4104 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASUREMENT CONDITIONS:**

Beam angle:

Wash 2550 Max Zoom

Target:

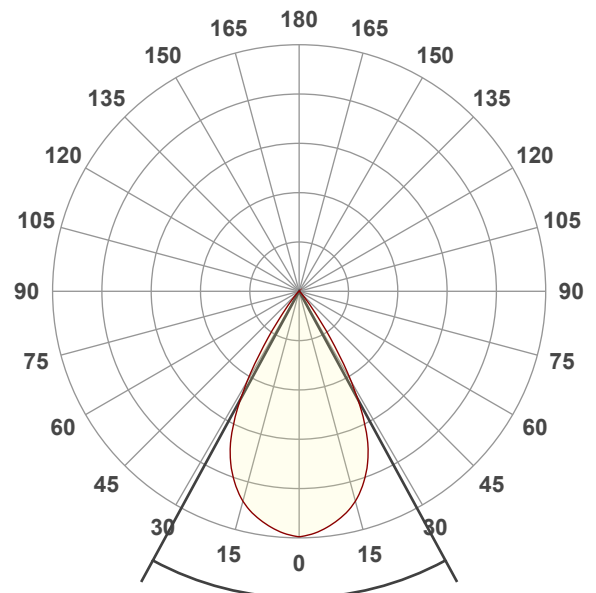
4000K

Operator:

Paolo Carvone

Date and time:

27/07/2022 15:35:10

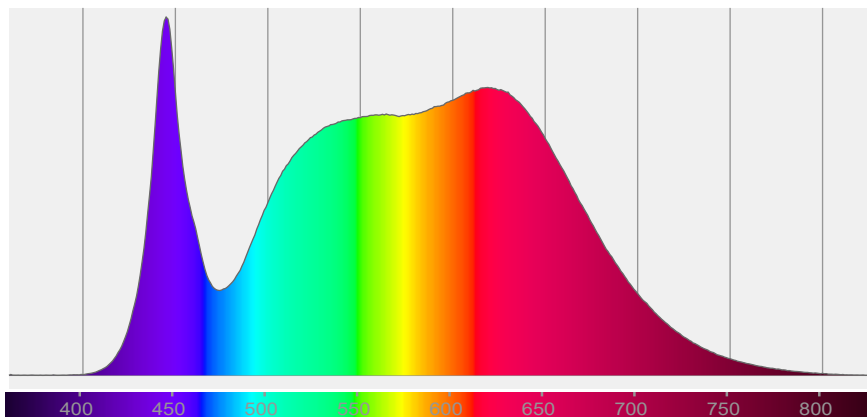


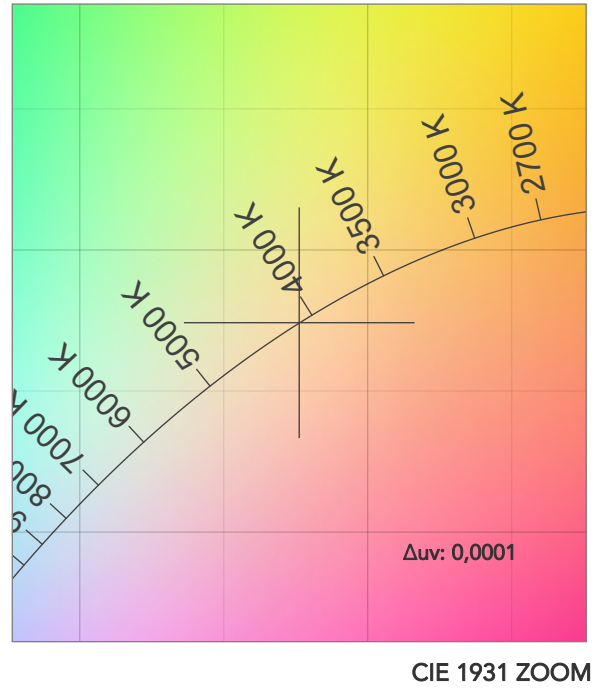
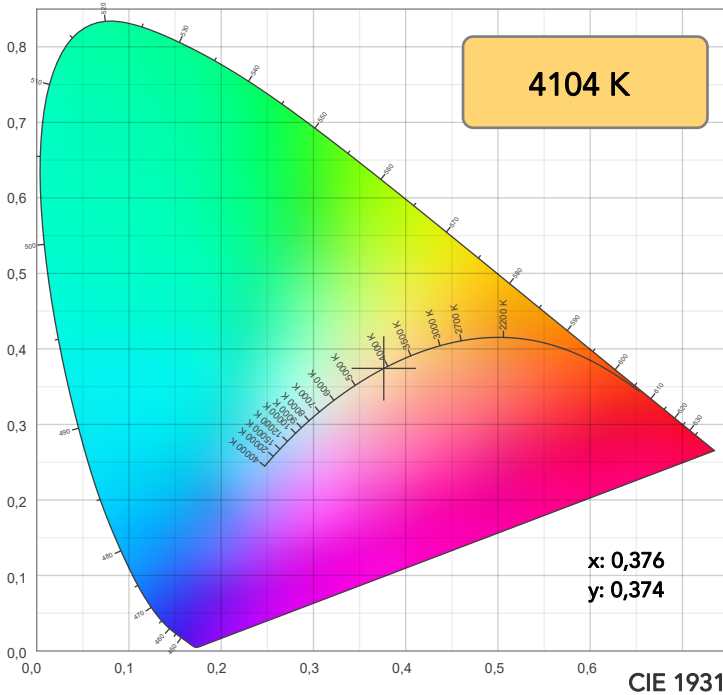
Beam angle 50%: 57°

Field angle 10%: 74,3°

Cut off angle 2.5%: 85,2°

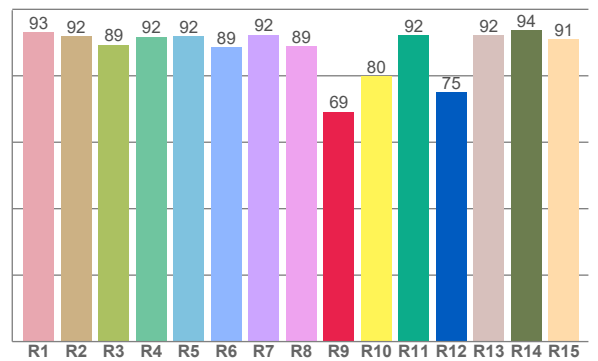
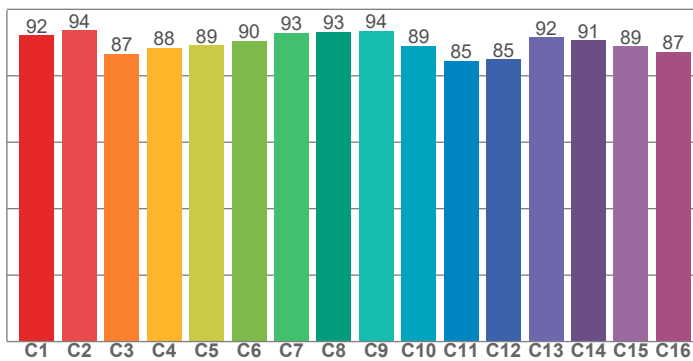
Spectra





TM30: 89,6

CRI: 91,0 (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
93,0	91,8	89,4	91,8	92,0	88,6	92,3	89,0	69,2	79,9	92,2	75,0	92,3	93,6	91,0

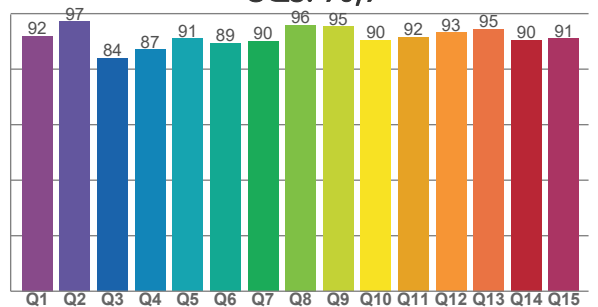
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,1	93,7	86,6	88,4	89,1	90,4	92,9	93,2	93,5	89,0	84,6	84,9	91,5	90,6	88,9	87,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,0	97,2	84,0	87,1	91,1	89,4	90,0	95,8	95,4	90,5	91,5	93,1	94,5	90,5	91,0

CQS: 90,9



COLOR PARAMETERS

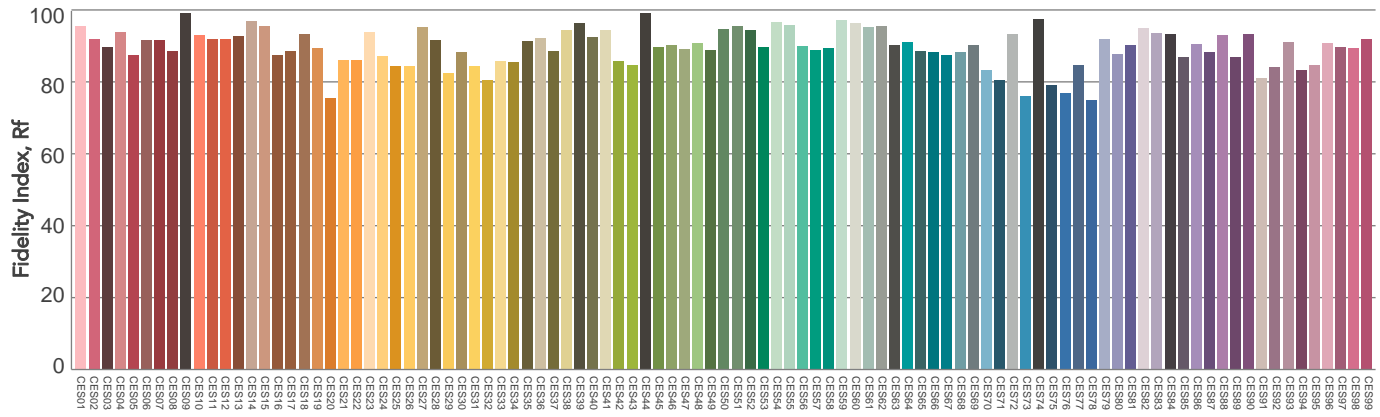
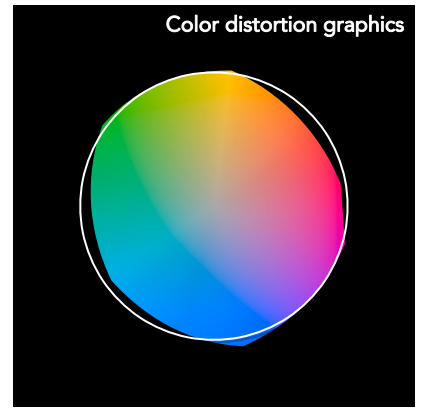
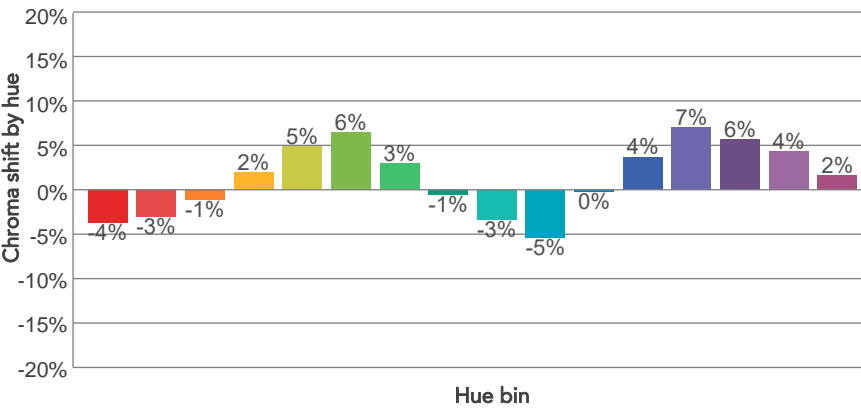
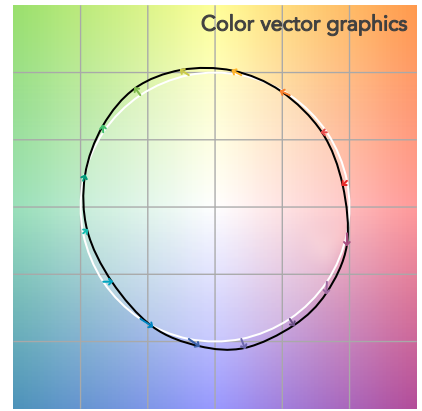
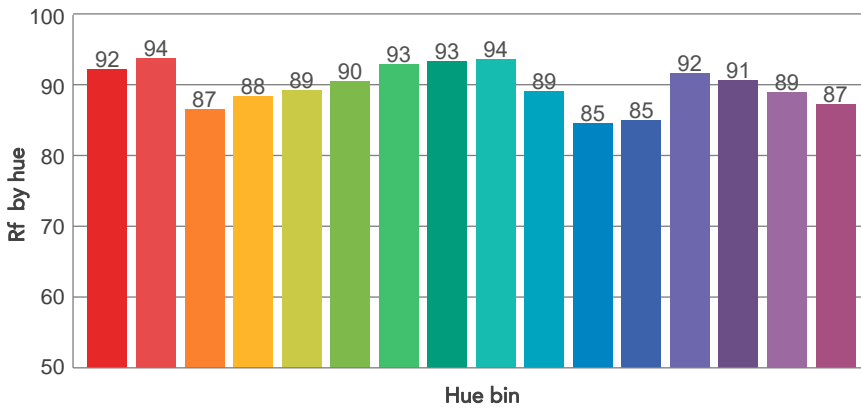
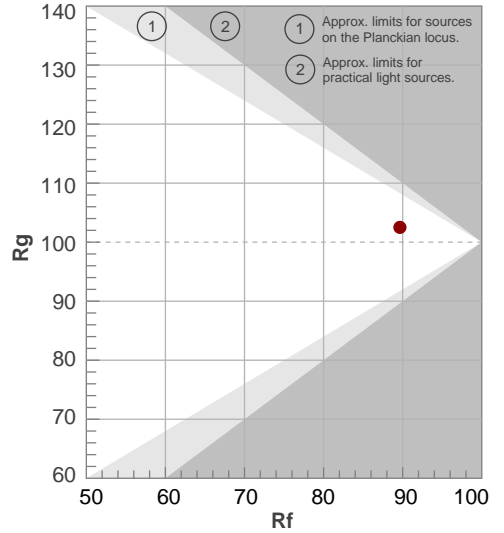
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4104 K	91,0	69,2	89,6	102,5	90,9	89	0,376	0,374	0,0001

# TM30 DETAILS

**Rf 89,6**  
Fidelity index Rf

**Rg 102,5**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-2%
2	94	-3%	2%
3	87	-1%	7%
4	88	2%	7%
5	89	5%	5%
6	90	6%	0%
7	93	3%	-4%
8	93	-1%	-4%
9	94	-3%	-2%
10	89	-5%	3%
11	85	0%	10%
12	85	4%	8%
13	92	7%	1%
14	91	6%	0%
15	89	4%	-7%
16	87	2%	-8%



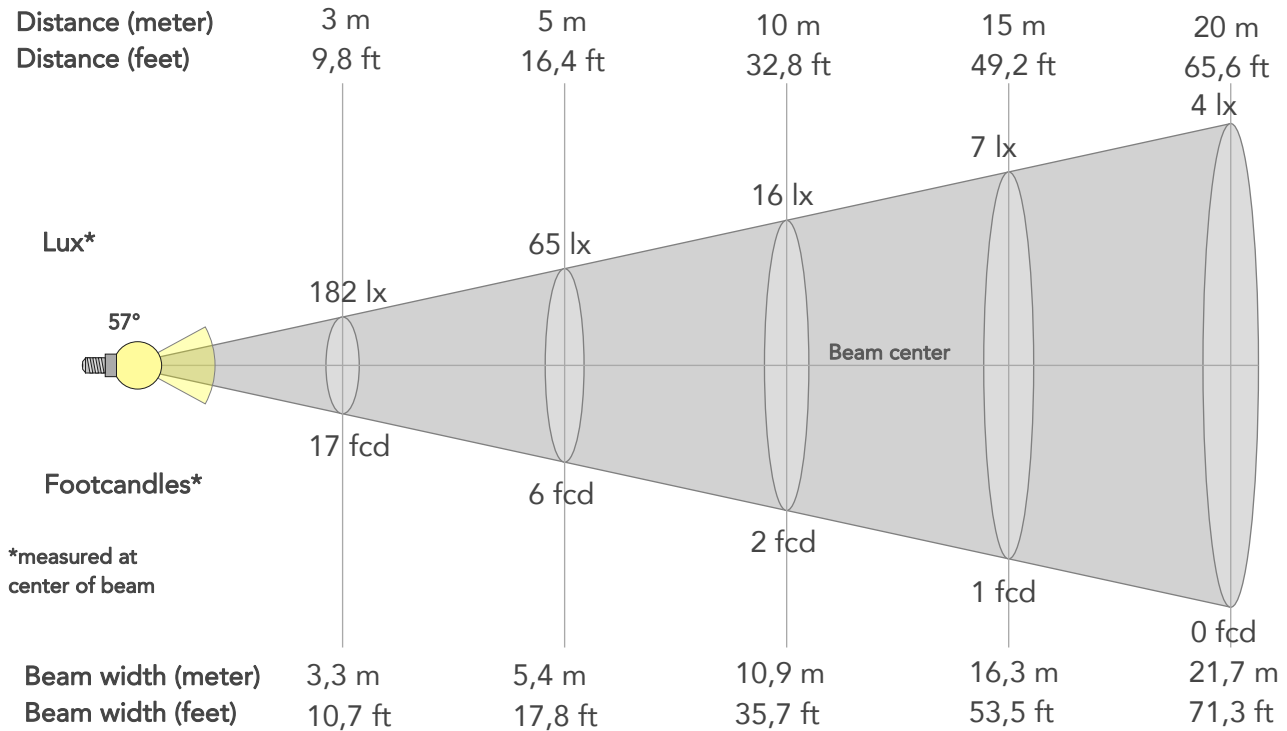
Color Evaluation Sample



# BEAM DETAILS



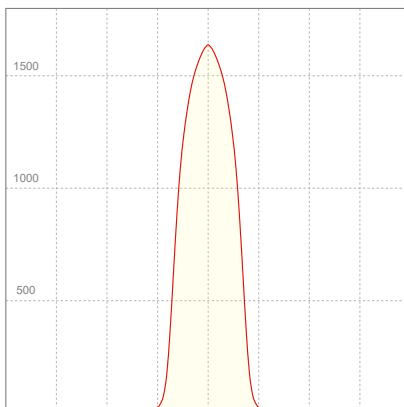
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57°	74,3°	85,2°	100,0%	99,1%



## 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	1636lx	409lx	182lx	102lx	65lx	29lx	16lx	7lx	4lx	3lx	2lx	1lx	1lx
Footcand.	152fcd	38fcd	17fcd	9fcd	6fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,3m	4,3m	5,4m	8,2m	10,9m	16,3m	21,7m	27,2m	32,6m	43,5m	54,4m
Beam wid.	3,6ft	7,2ft	10,7ft	14,2ft	17,8ft	26,7ft	35,7ft	53,5ft	71,3ft	89,1ft	107ft	142,6ft	178,3ft

## LINEAR DISTRIBUTION DIAGRAM

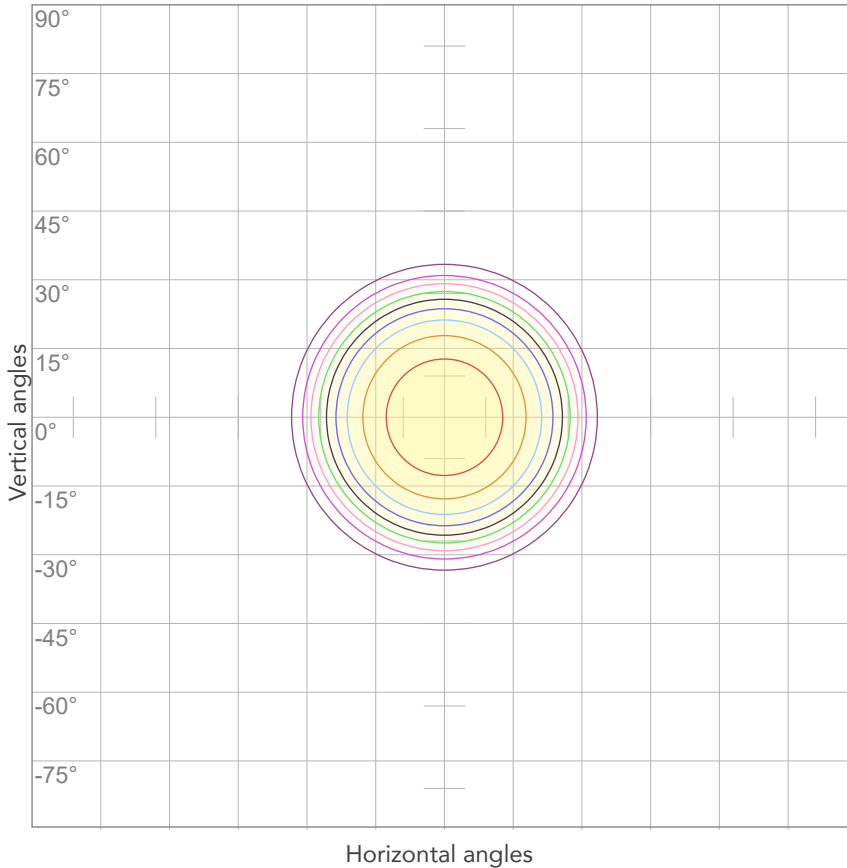


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,104A	21,0W	59lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



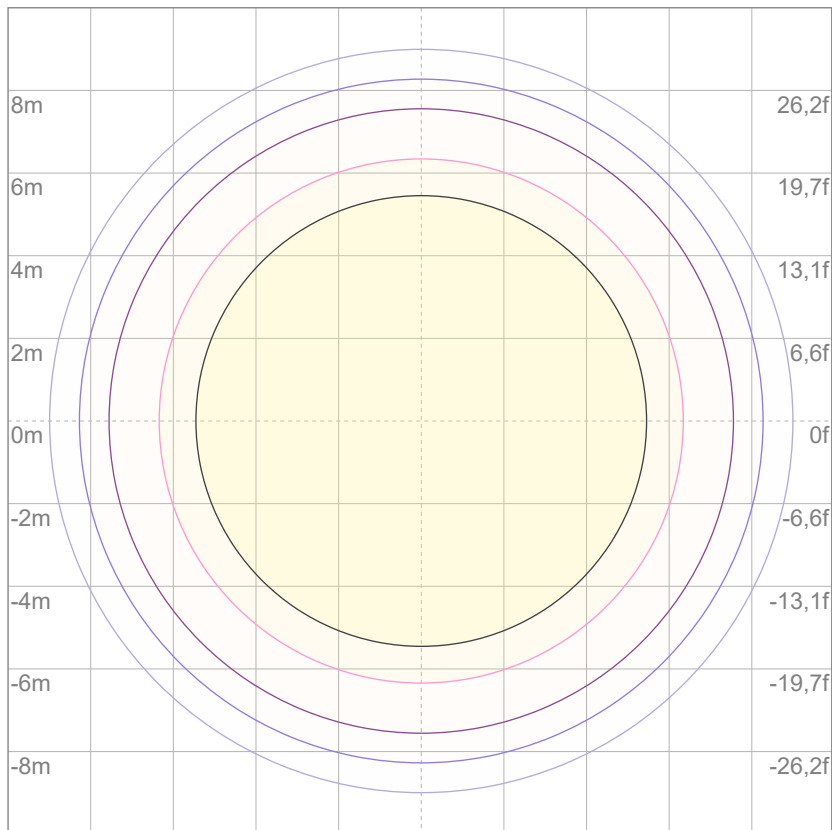
10%	164 cd
20%	327 cd
30%	491 cd
40%	654 cd
50%	818 cd
60%	981 cd
70%	1145 cd
80%	1309 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 1636 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,491 lx
5%	0,818 lx
10%	1,64 lx
30%	4,91 lx
50%	8,18 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 16,4 lx

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



Total lumen output:

631 lm

Peak candela output:

5504 cd

Light quality:

CRI: 91,2

Color temperature:

4068 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wash 2550 Min Zoom

Target:

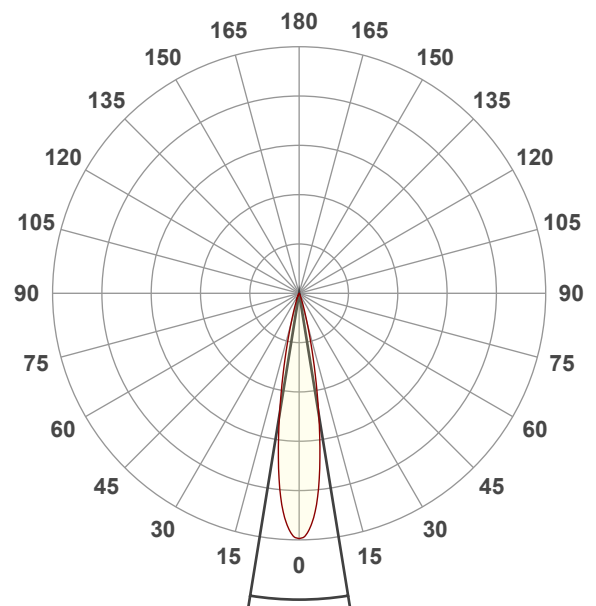
4000K

Operator:

Paolo Carvone

Date and time:

27/07/2022 15:33:26

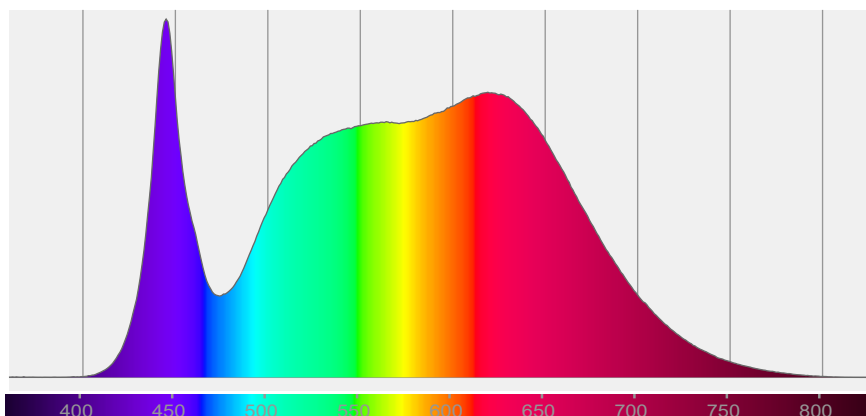


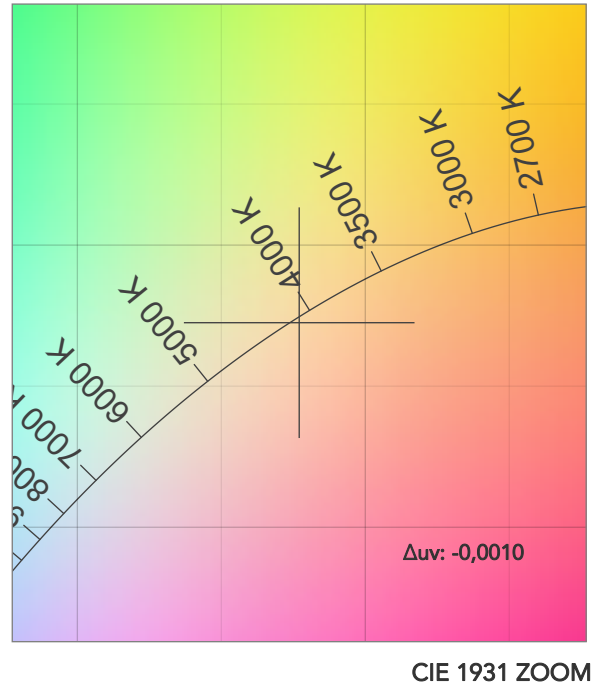
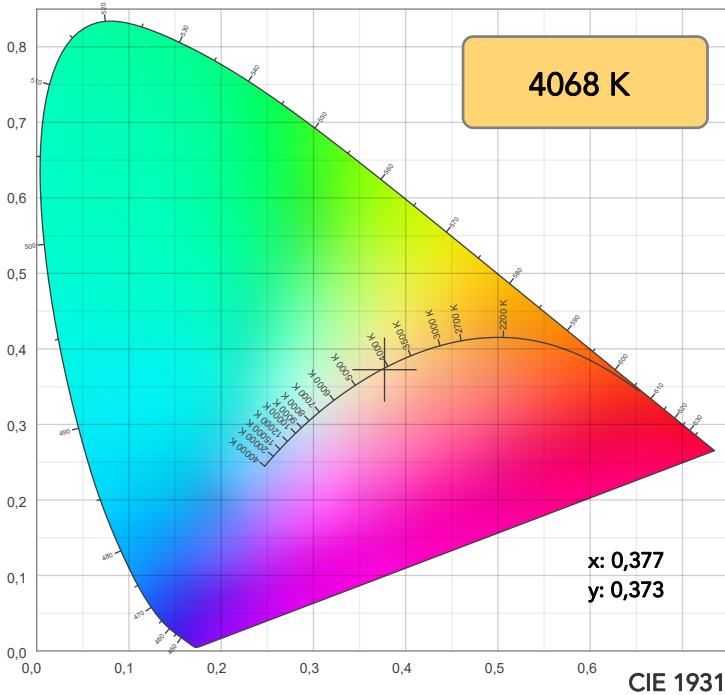
Beam angle 50%: 18,4°

Field angle 10%: 31,9°

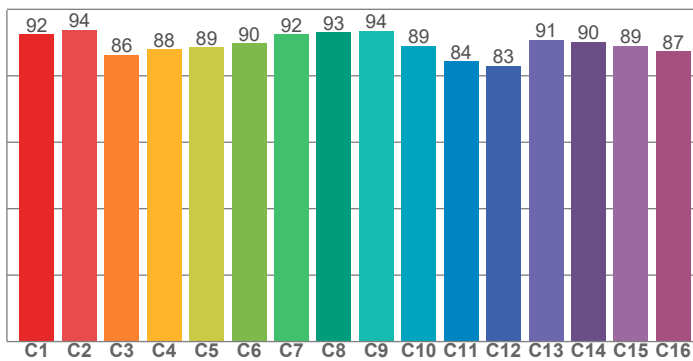
Cut off angle 2.5%: 42,6°

Spectra

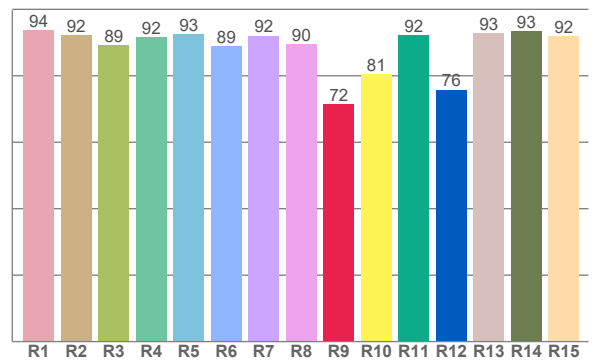




TM30: 89,5



CRI: 91,2 (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
93,7	92,1	89,2	91,6	92,6	88,9	92,1	89,6	71,5	80,5	92,1	75,8	92,9	93,5	91,9

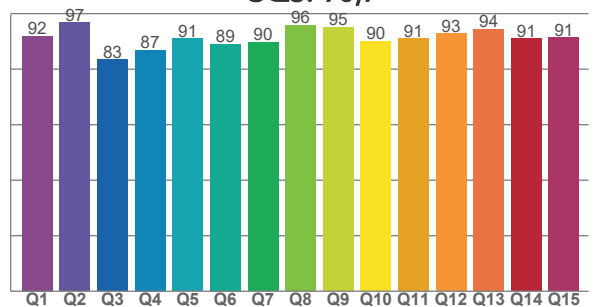
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,5	93,8	86,3	87,9	88,6	89,8	92,4	93,1	93,5	89,1	84,4	82,9	90,8	90,3	89,0	87,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,0	96,8	83,5	86,9	91,0	89,0	89,7	95,8	95,1	90,0	91,1	92,8	94,5	91,0	91,3

CQS: 90,7



COLOR PARAMETERS

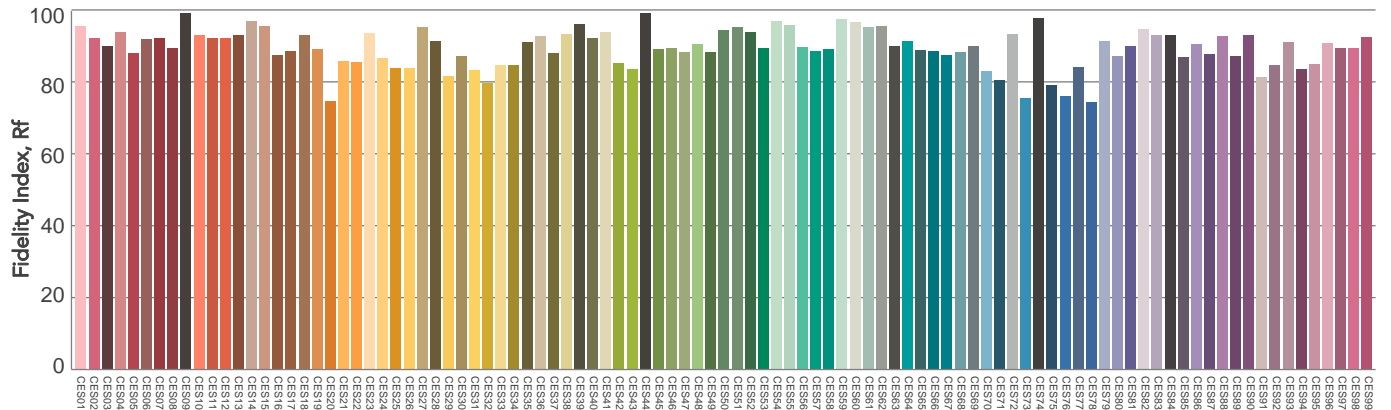
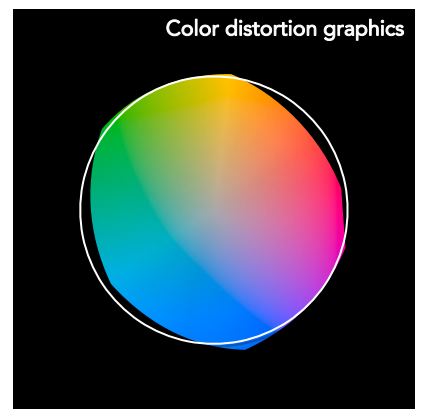
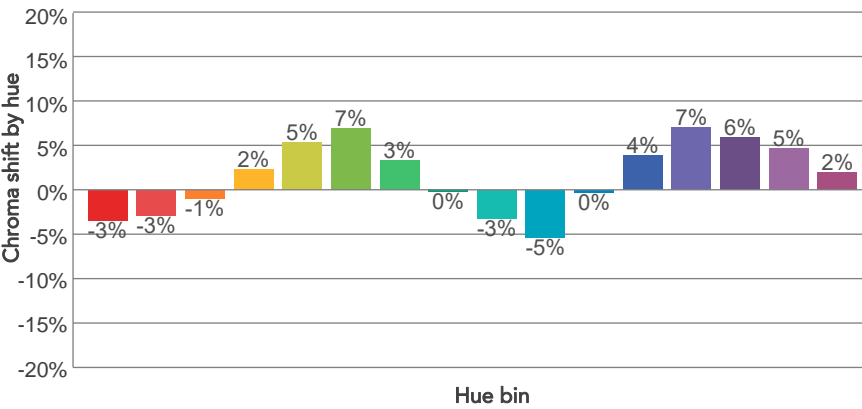
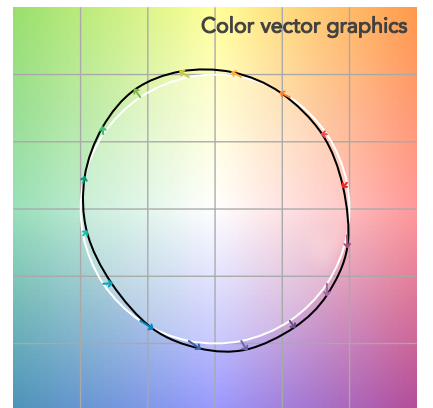
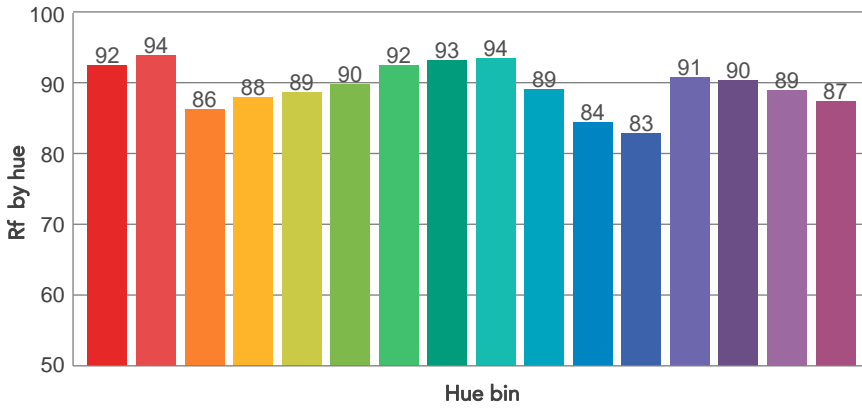
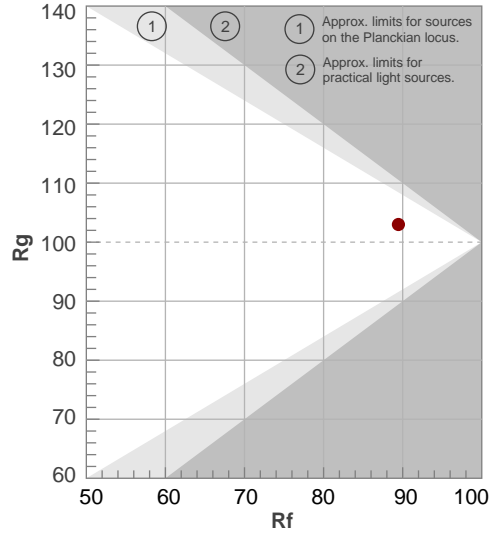
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4068 K	91,2	71,5	89,5	103,0	90,7	88	0,377	0,373	-0,0010

# TM30 DETAILS

**Rf 89,5**  
Fidelity index Rf

**Rg 103,0**  
Gammut index

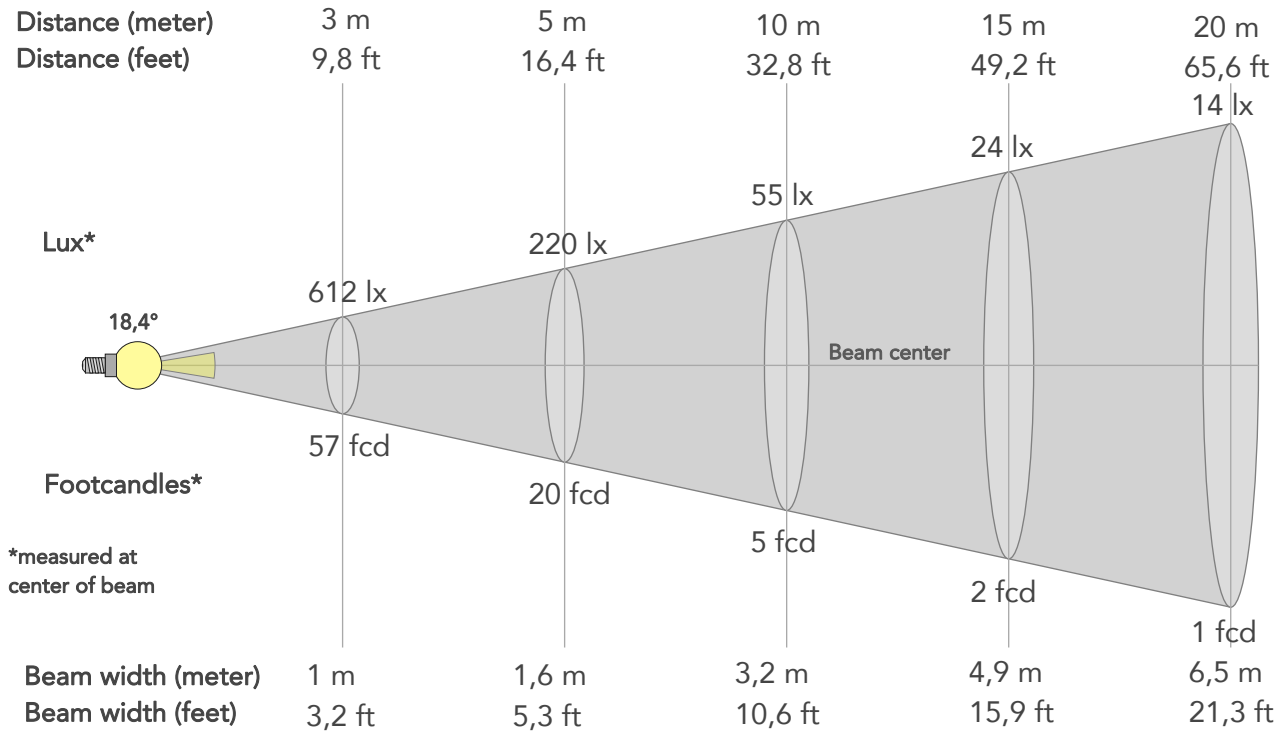
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-2%
2	94	-3%	2%
3	86	-1%	7%
4	88	2%	7%
5	89	5%	5%
6	90	7%	0%
7	92	3%	-4%
8	93	0%	-4%
9	94	-3%	-2%
10	89	-5%	3%
11	84	0%	11%
12	83	4%	9%
13	91	7%	3%
14	90	6%	0%
15	89	5%	-7%
16	87	2%	-8%



# BEAM DETAILS



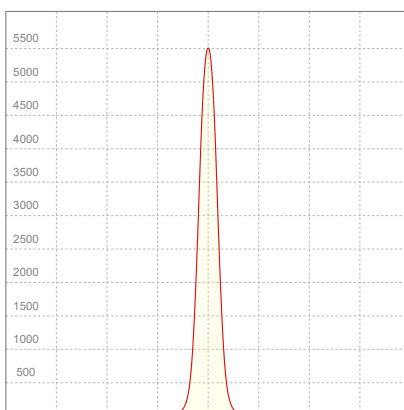
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,4°	31,9°	42,6°	100,0%	100,0%



## 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	5504lx	1376lx	612lx	344lx	220lx	98lx	55lx	24lx	14lx	9lx	6lx	3lx	2lx
Footcand.	511fcd	128fcd	57fcd	32fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	1m	1,3m	1,6m	2,4m	3,2m	4,9m	6,5m	8,1m	9,7m	13m	16,2m
Beam wid.	1,1ft	2,1ft	3,2ft	4,2ft	5,3ft	8ft	10,6ft	15,9ft	21,3ft	26,6ft	31,9ft	42,5ft	53,1ft

## LINEAR DISTRIBUTION DIAGRAM

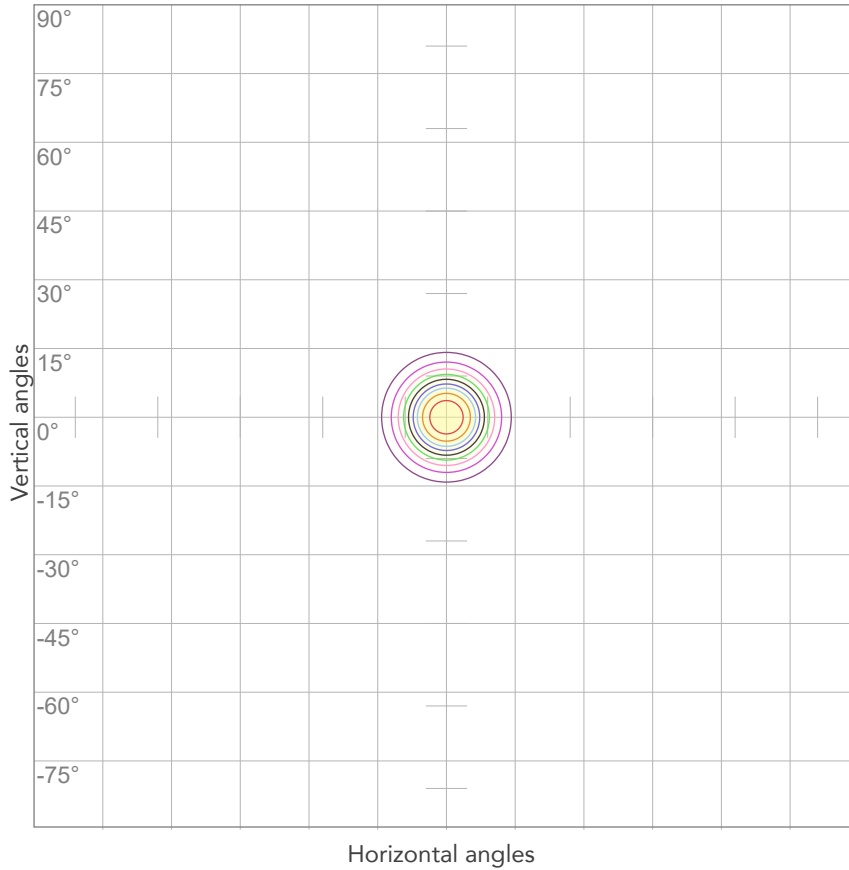


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,104A	21,1W	30lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



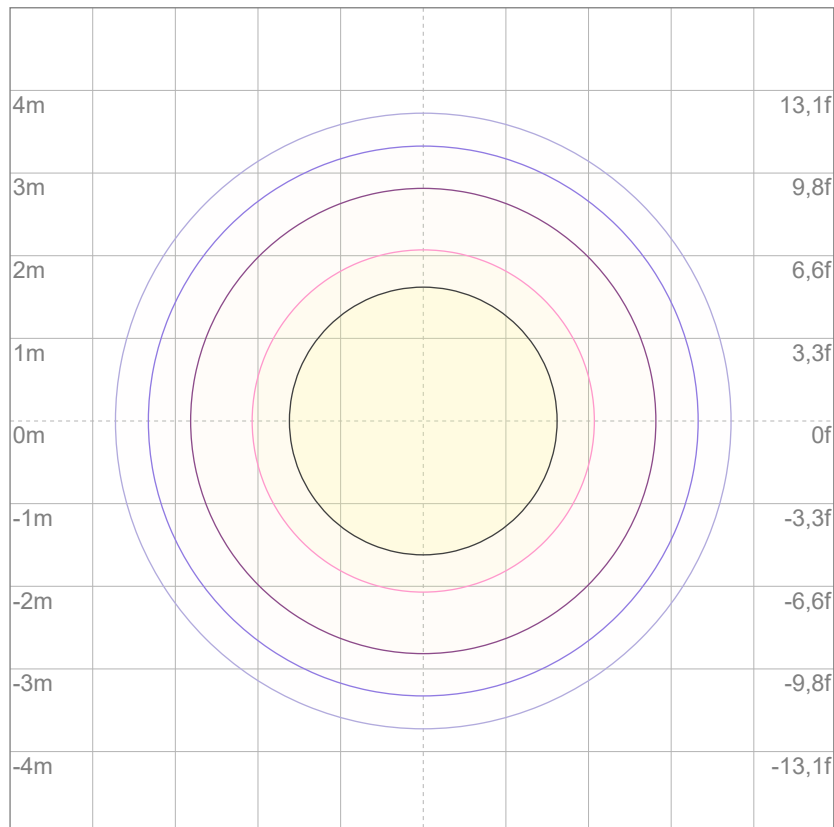
10%	550 cd
20%	1101 cd
30%	1651 cd
40%	2202 cd
50%	2752 cd
60%	3303 cd
70%	3853 cd
80%	4403 cd

Conditions:

Number of c-planes: 2

Candela at center: 5504 cd

## ISO LUX DIAGRAM



3%	1,65 lx
5%	2,75 lx
10%	5,50 lx
30%	16,5 lx
50%	27,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 55,0 lx

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



Total lumen output:

1185 lm

Peak candela output:

3948 cd

Light quality:

CRI: 92,4

Color temperature:

5390 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wash 1530 Max Zoom

Target:

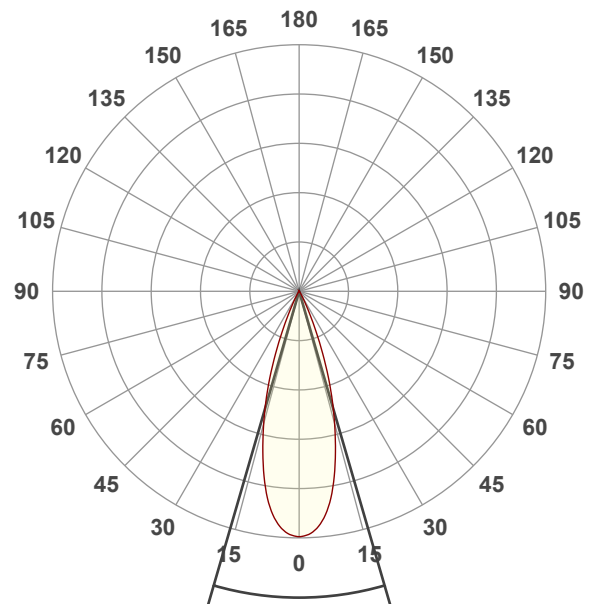
5600K

Operator:

Paolo Carvone

Date and time:

27/07/2022 15:59:07

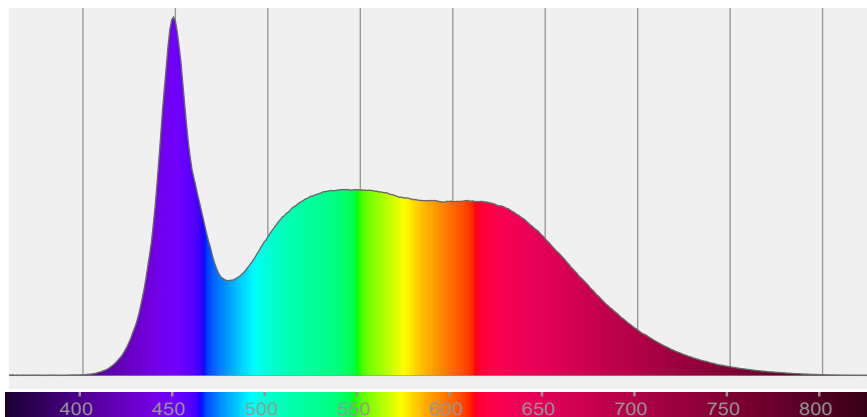


Beam angle 50%: 32,4°

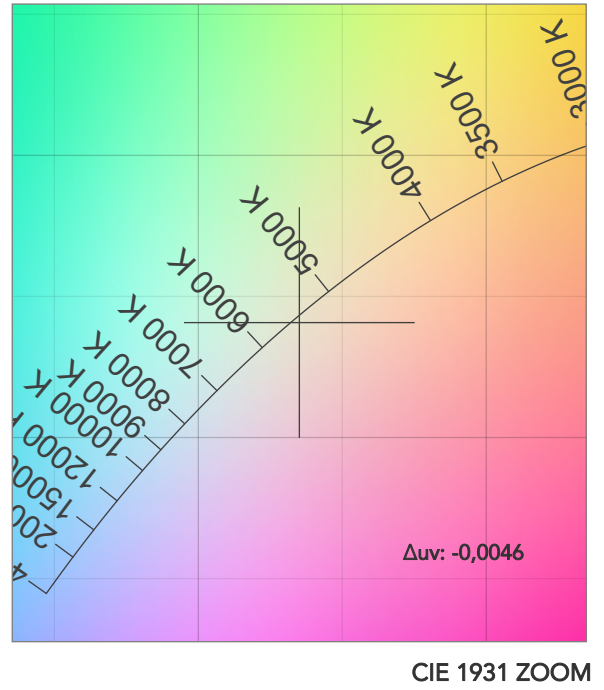
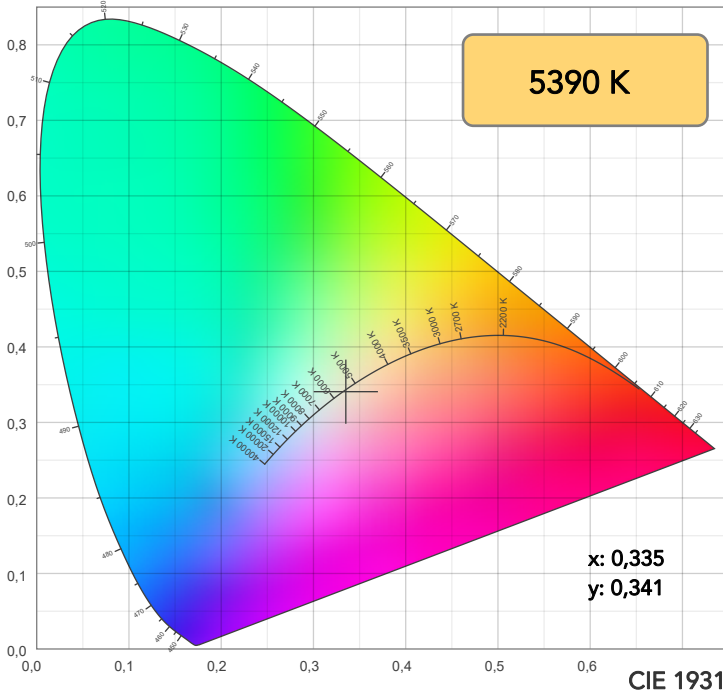
Field angle 10%: 50,3°

Cut off angle 2.5%: 60,9°

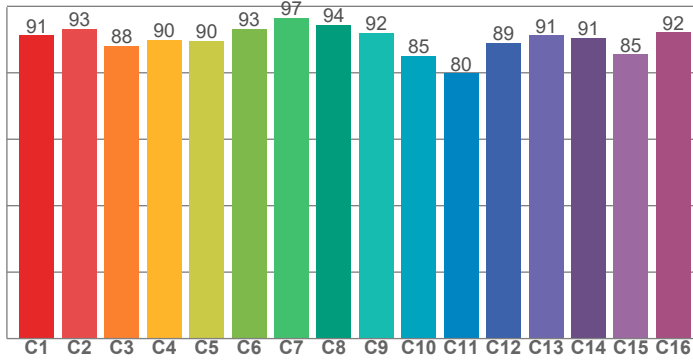
Spectra



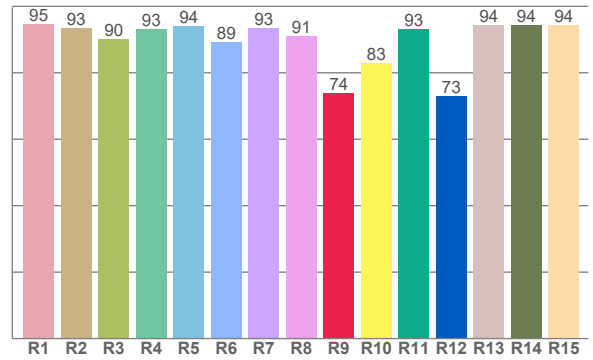




TM30: 89,8



CRI: 92,4 (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
94,6	93,5	90,2	93,2	94,0	89,2	93,4	91,1	73,9	83,0	93,0	72,9	94,3	94,2	94,3

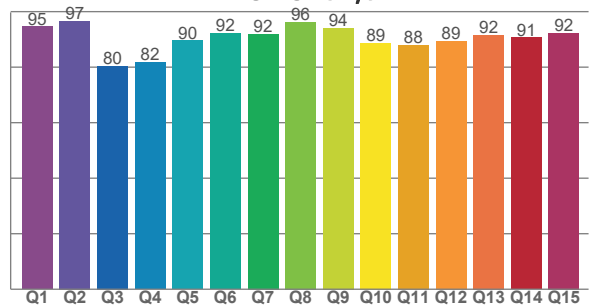
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,2	93,1	88,1	89,9	89,7	93,3	96,6	94,5	92,1	85,1	79,8	88,9	91,3	90,6	85,5	92,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,7	96,7	80,3	81,7	89,6	92,2	91,9	96,3	94,0	88,7	88,0	89,4	91,6	90,6	92,3

CQS: 89,5



COLOR PARAMETERS

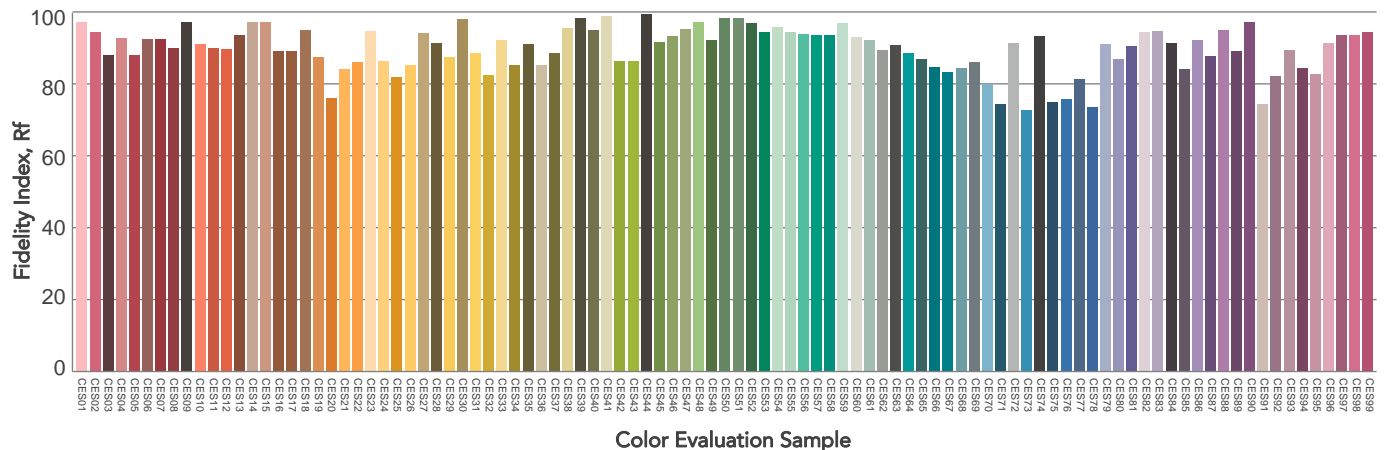
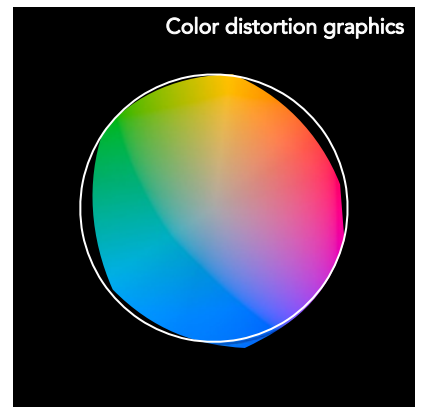
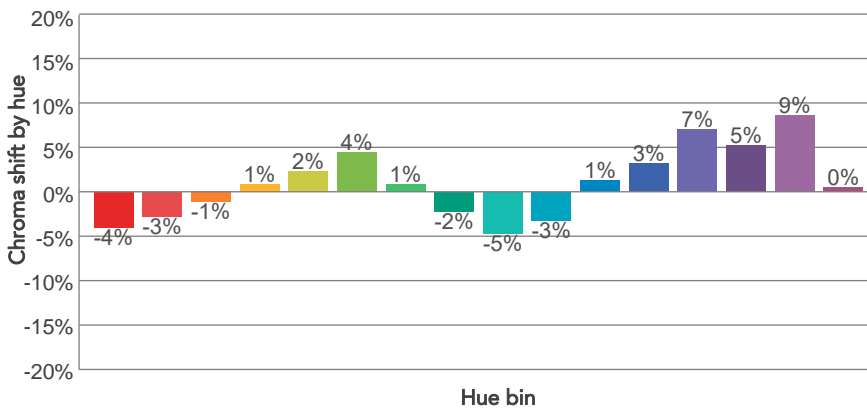
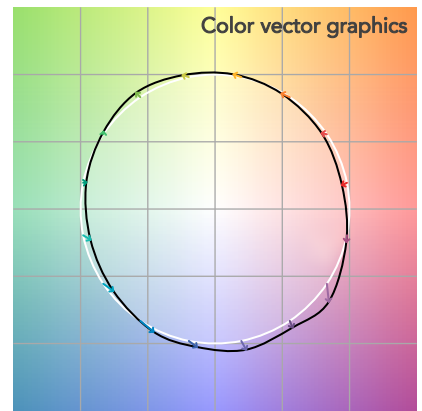
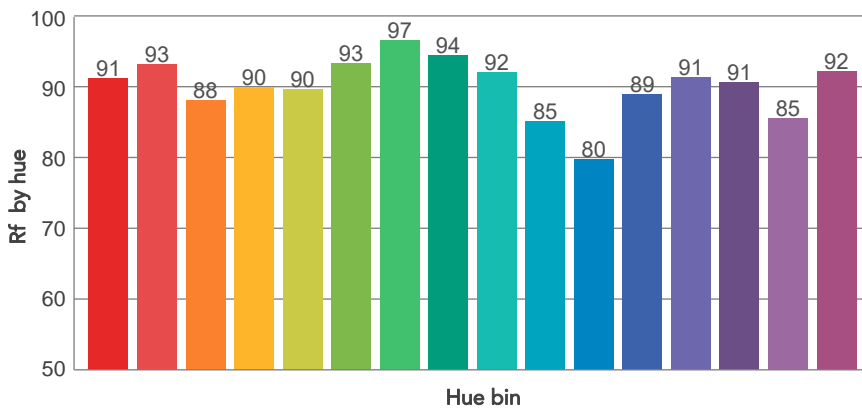
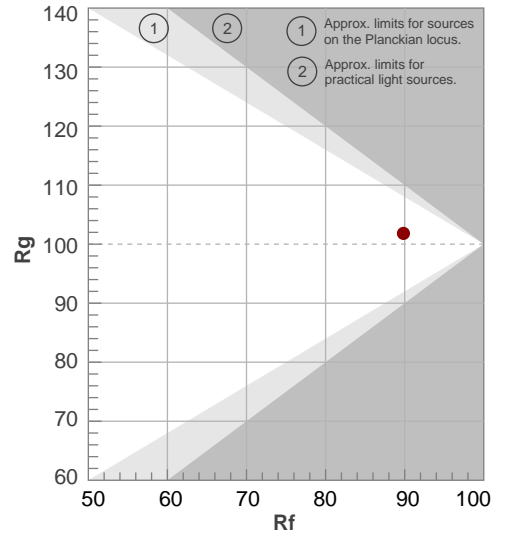
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5390 K	92,4	73,9	89,8	101,8	89,5	94	0,335	0,341	-0,0046

# TM30 DETAILS

**Rf 89,8**  
Fidelity index Rf

**Rg 101,8**  
Gammut index

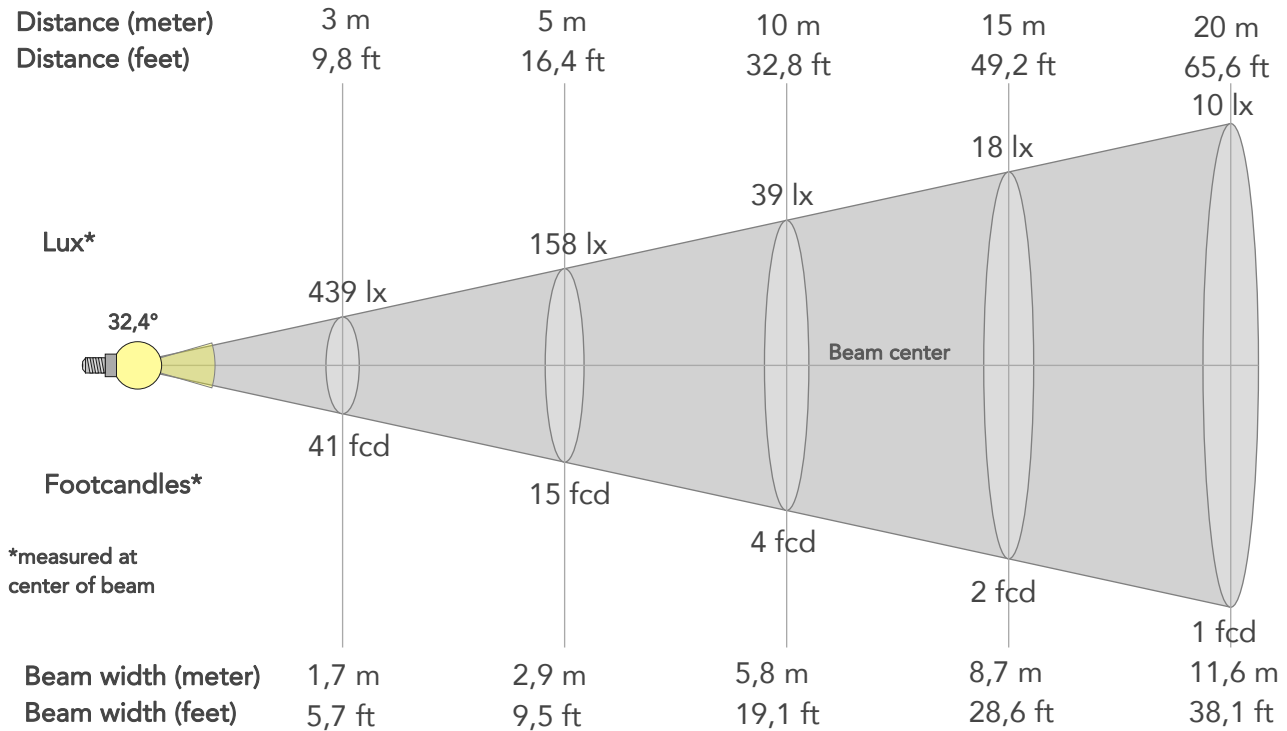
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-1%
2	93	-3%	3%
3	88	-1%	7%
4	90	1%	6%
5	90	2%	4%
6	93	4%	1%
7	97	1%	-2%
8	94	-2%	-1%
9	92	-5%	4%
10	85	-3%	9%
11	80	1%	13%
12	89	3%	7%
13	91	7%	2%
14	91	5%	-1%
15	85	9%	-10%
16	92	0%	-5%



# BEAM DETAILS



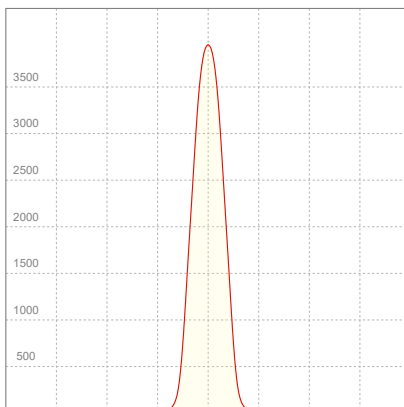
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,4°	50,3°	60,9°	100,0%	99,8%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3948lx	987lx	439lx	247lx	158lx	70lx	39lx	18lx	10lx	6lx	4lx	2lx	2lx
Footcand.	367fcd	92fcd	41fcd	23fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,7m	2,3m	2,9m	4,4m	5,8m	8,7m	11,6m	14,5m	17,4m	23,2m	29m
Beam wid.	1,9ft	3,8ft	5,7ft	7,6ft	9,5ft	14,3ft	19,1ft	28,6ft	38,1ft	47,6ft	57,2ft	76,2ft	95,3ft

## LINEAR DISTRIBUTION DIAGRAM

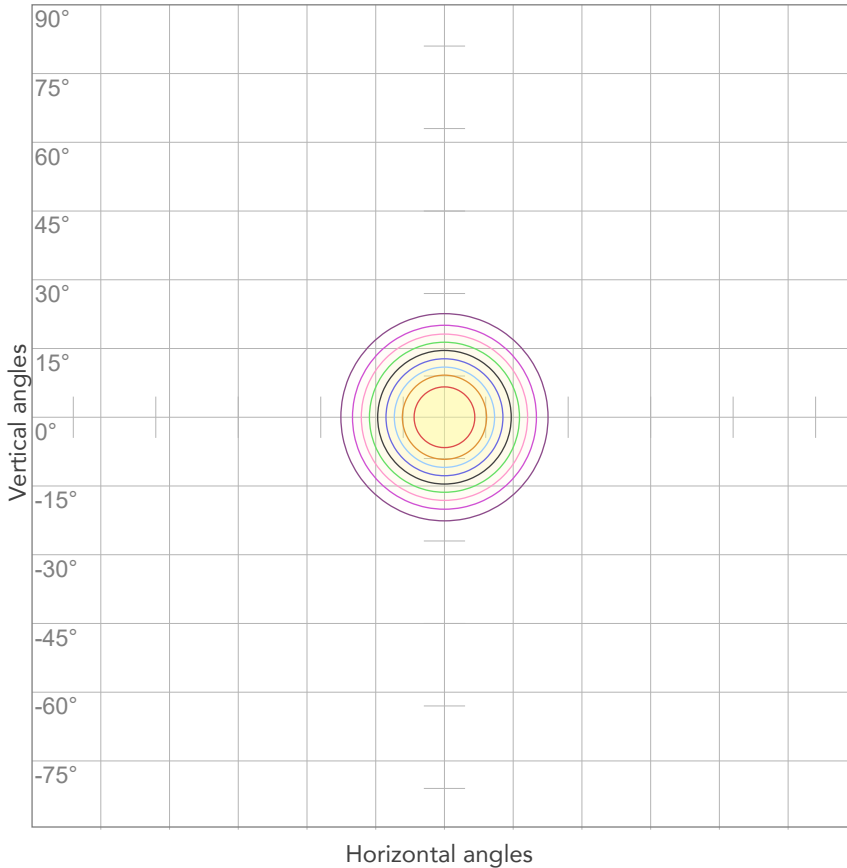


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,103A	20,7W	57lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



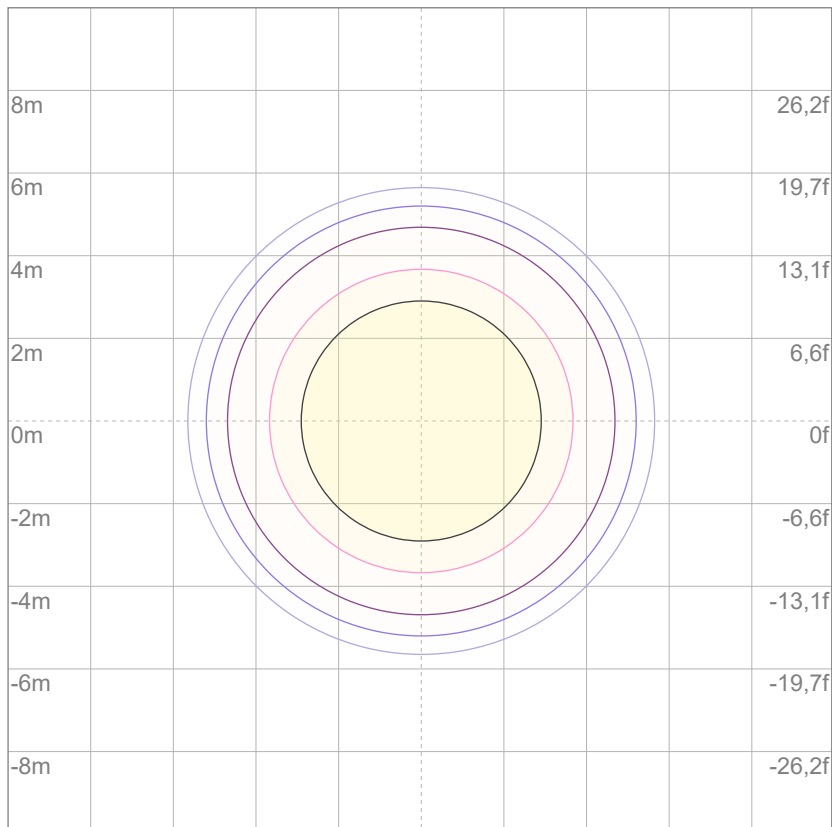
10%	395 cd
20%	790 cd
30%	1184 cd
40%	1579 cd
50%	1974 cd
60%	2369 cd
70%	2763 cd
80%	3158 cd

Conditions:

Number of c-planes: 2

Candela at center: 3948 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,18 lx
5%	1,97 lx
10%	3,95 lx
30%	11,8 lx
50%	19,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 39,5 lx

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



Total lumen output:

795 lm

Peak candela output:

10963 cd

Light quality:

CRI: 92,5

Color temperature:

5290 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASUREMENT CONDITIONS:**

Beam angle:

Wash 1530 Min Zoom

Target:

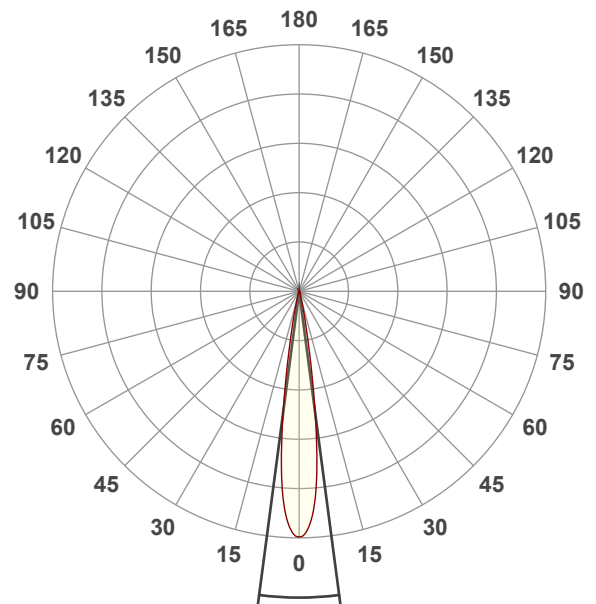
5600K

Operator:

Paolo Carvone

Date and time:

27/07/2022 15:56:57

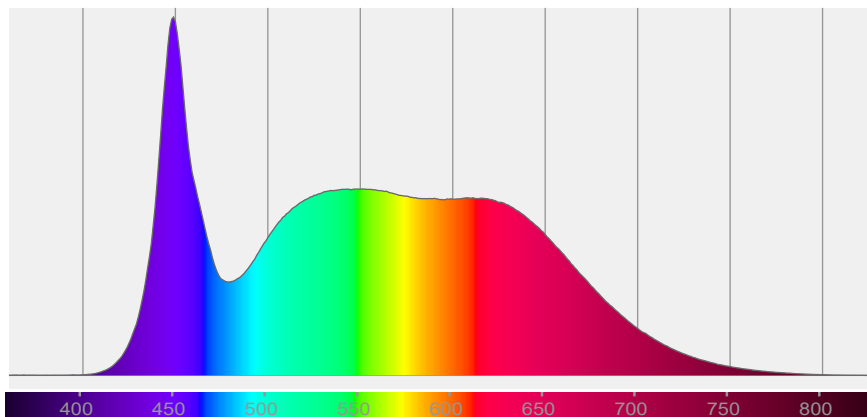


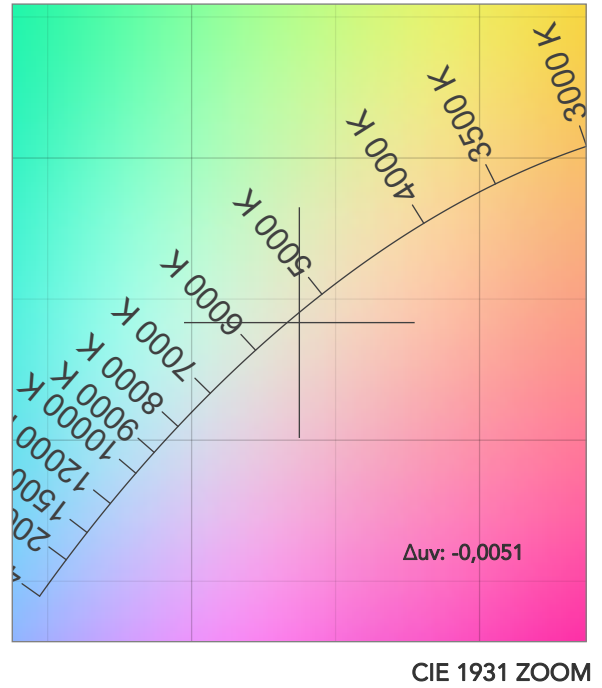
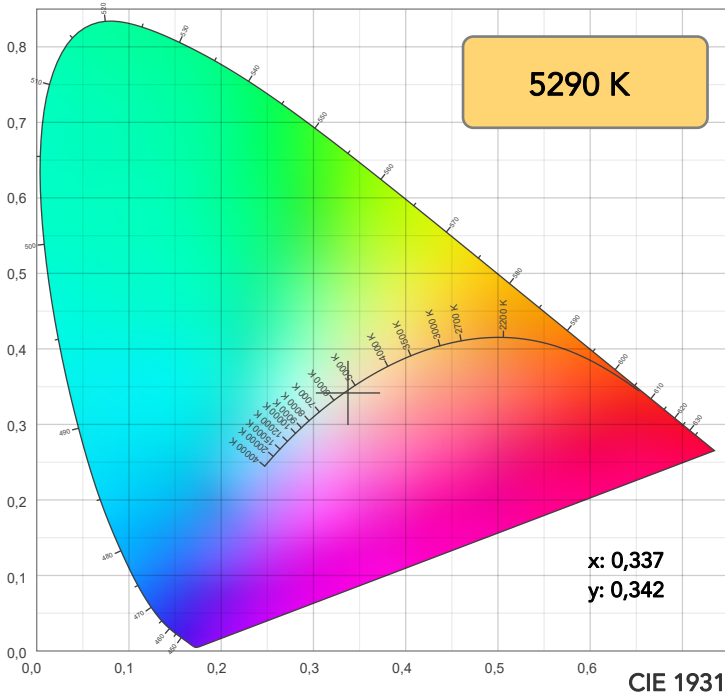
Beam angle 50%: 15°

Field angle 10%: 24,3°

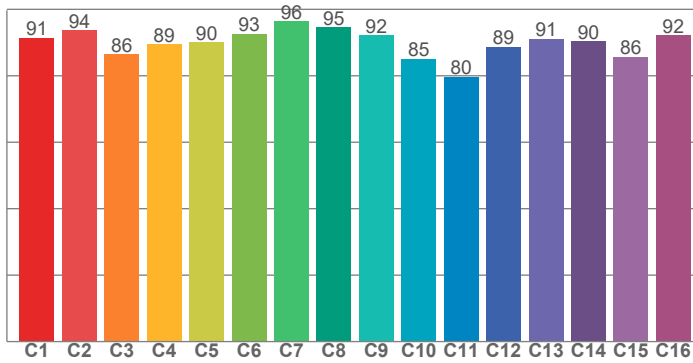
Cut off angle 2.5%: 33,2°

Spectra

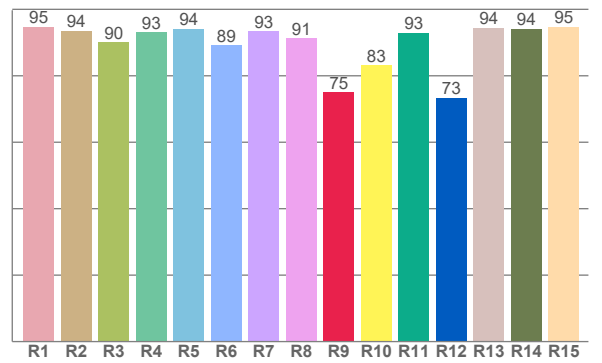




TM30: 89,8



CRI: 92,5 (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
94,8	93,5	90,1	93,1	94,2	89,3	93,3	91,3	75,0	83,2	93,0	73,4	94,4	94,2	94,7

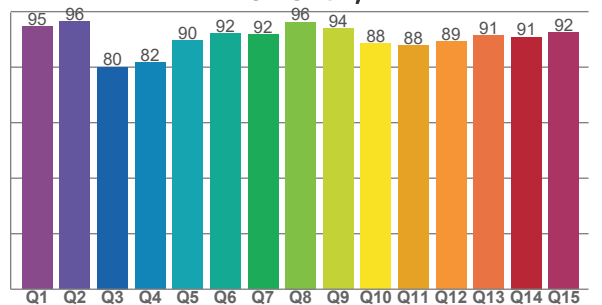
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,4	93,7	86,5	89,5	90,0	92,7	96,4	94,6	92,2	85,1	79,7	88,6	91,1	90,4	85,7	92,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,7	96,5	80,0	81,6	89,6	92,1	91,7	96,3	93,9	88,5	87,8	89,2	91,4	90,9	92,4

CQS: 89,4



COLOR PARAMETERS

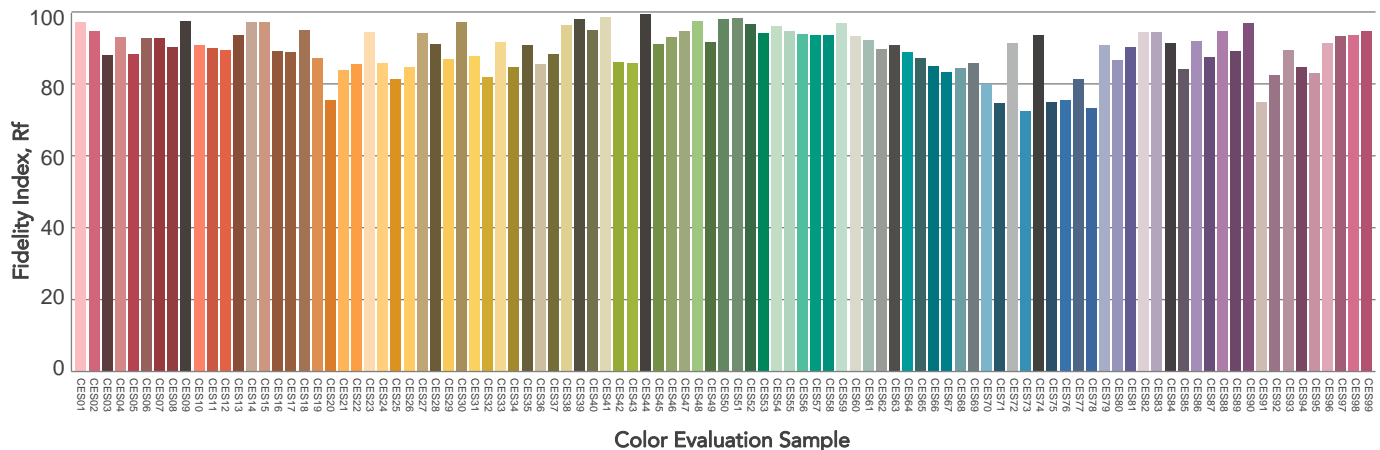
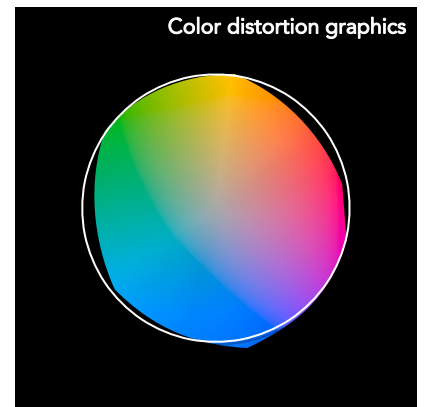
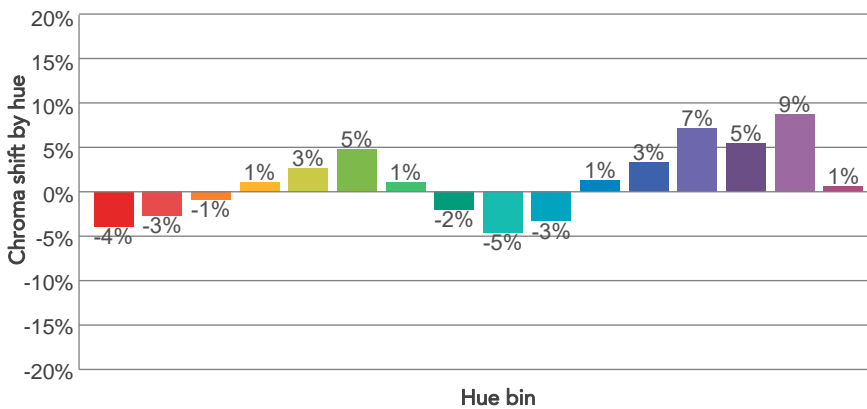
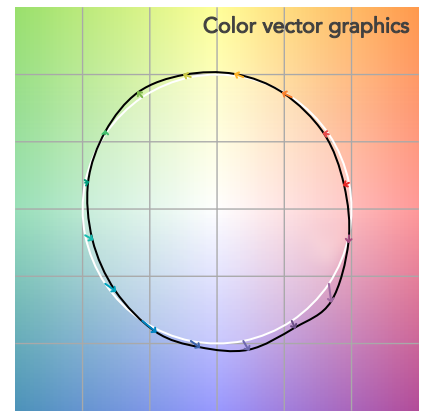
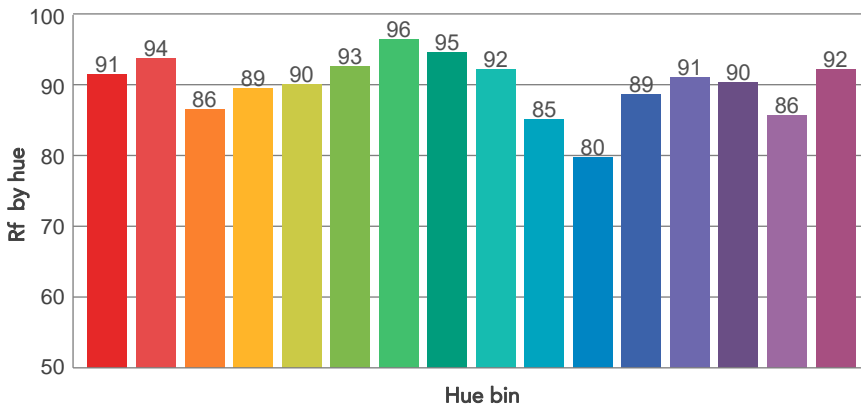
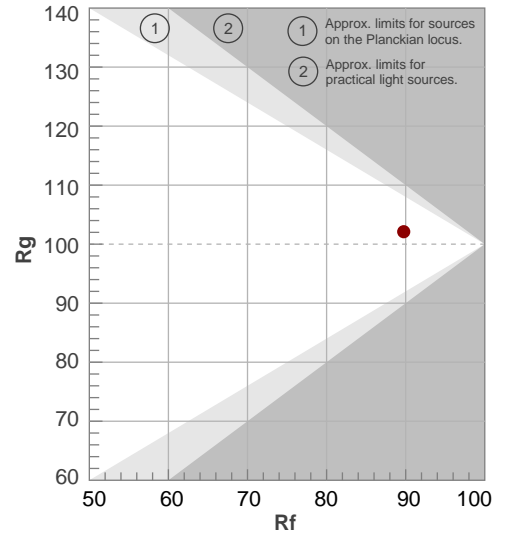
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5290 K	92,5	75,0	89,8	102,1	89,4	94	0,337	0,342	-0,0051

# TM30 DETAILS

**Rf 89,8**  
Fidelity index Rf

**Rg 102,1**  
Gammut index

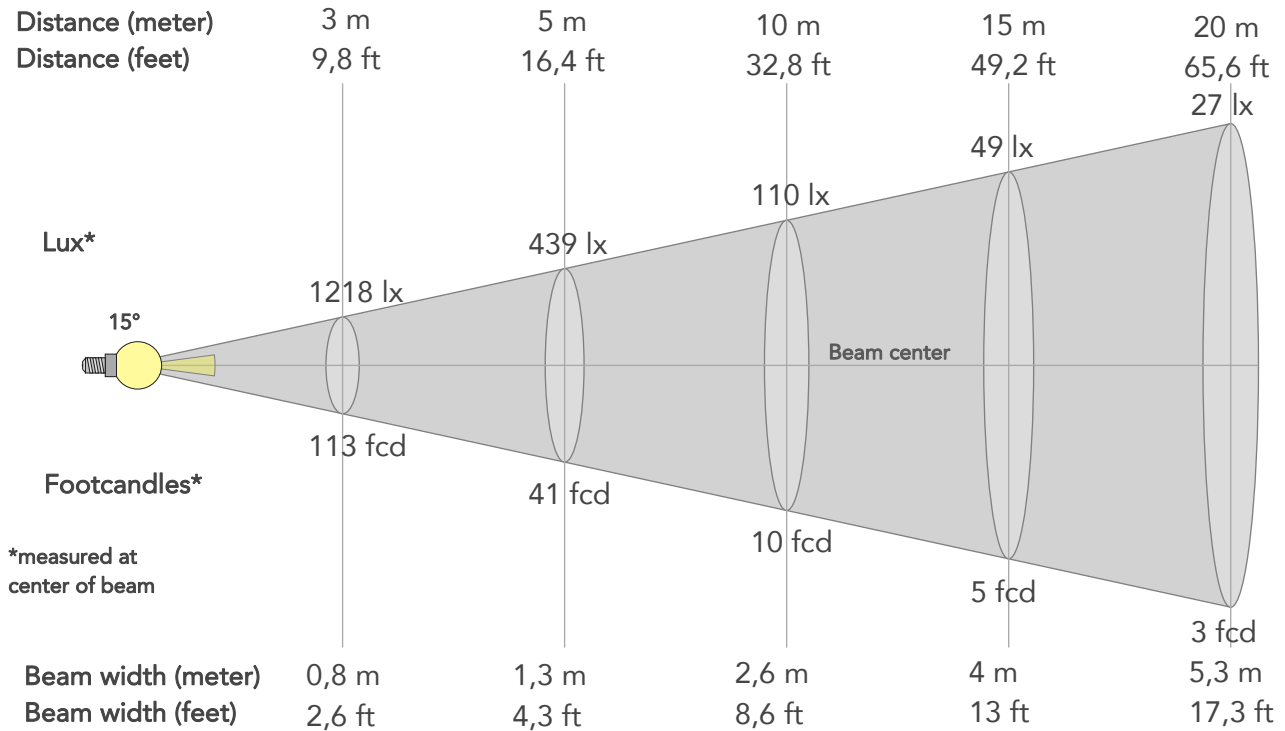
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-1%
2	94	-3%	3%
3	86	-1%	7%
4	89	1%	6%
5	90	3%	4%
6	93	5%	1%
7	96	1%	-2%
8	95	-2%	-1%
9	92	-5%	4%
10	85	-3%	8%
11	80	1%	13%
12	89	3%	7%
13	91	7%	3%
14	90	5%	-1%
15	86	9%	-10%
16	92	1%	-5%



# BEAM DETAILS



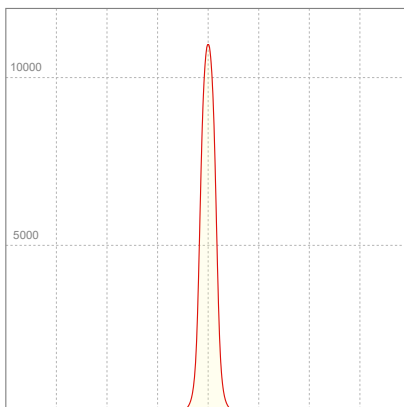
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15°	24,3°	33,2°	100,0%	100,0%



## 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	10963lx	2741lx	1218lx	685lx	439lx	195lx	110lx	49lx	27lx	18lx	12lx	7lx	4lx
Footcand.	1019fcd	255fcd	113fcd	64fcd	41fcd	18fcd	10fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,6m	4m	5,3m	6,6m	7,9m	10,5m	13,2m
Beam wid.	0,9ft	1,7ft	2,6ft	3,5ft	4,3ft	6,5ft	8,6ft	13ft	17,3ft	21,6ft	25,9ft	34,6ft	43,2ft

## LINEAR DISTRIBUTION DIAGRAM



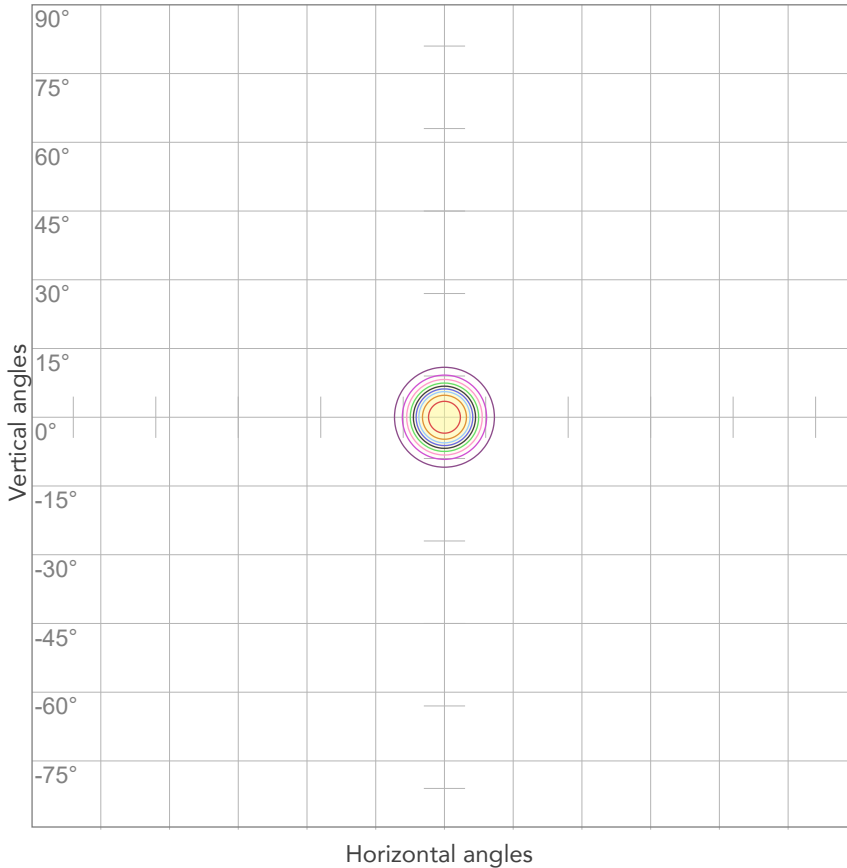
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,103A	20,7W	38lm/W

Power Fc
0,9



## ISO CANDELA DIAGRAM



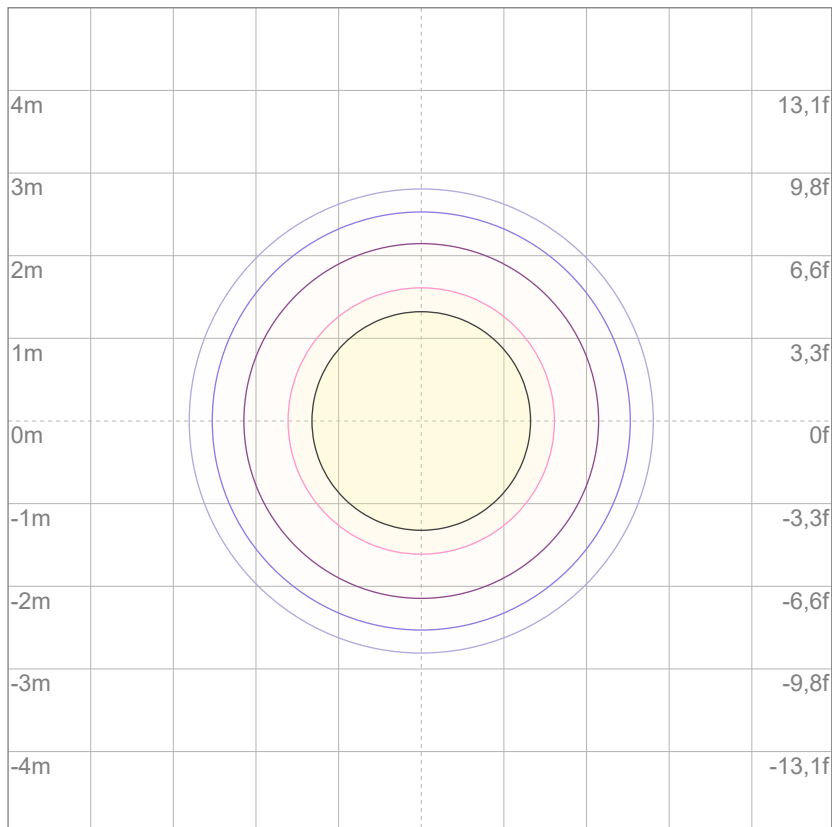
10%	1096 cd
20%	2193 cd
30%	3289 cd
40%	4385 cd
50%	5482 cd
60%	6578 cd
70%	7674 cd
80%	8771 cd

Conditions:

Number of c-planes: 2

Candela at center: 10963 cd

## ISO LUX DIAGRAM



3%	3,29 lx
5%	5,48 lx
10%	11,0 lx
30%	32,9 lx
50%	54,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 110 lx

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



Total lumen output:

1277 lm

Peak candela output:

1667 cd

Light quality:

CRI: 92,9

Color temperature:

5435 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wash 2550 Max Zoom

Target:

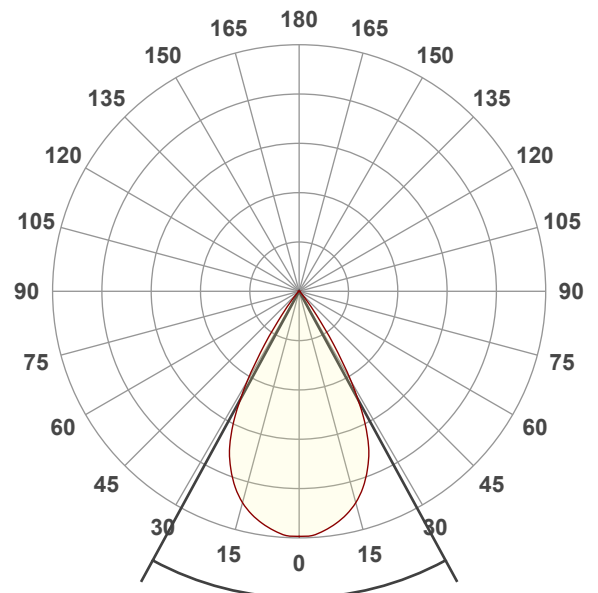
5600K

Operator:

Paolo Carvone

Date and time:

27/07/2022 16:04:19

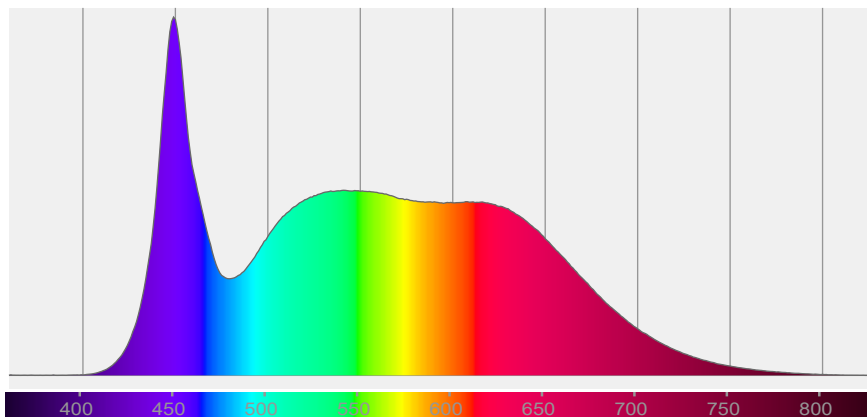


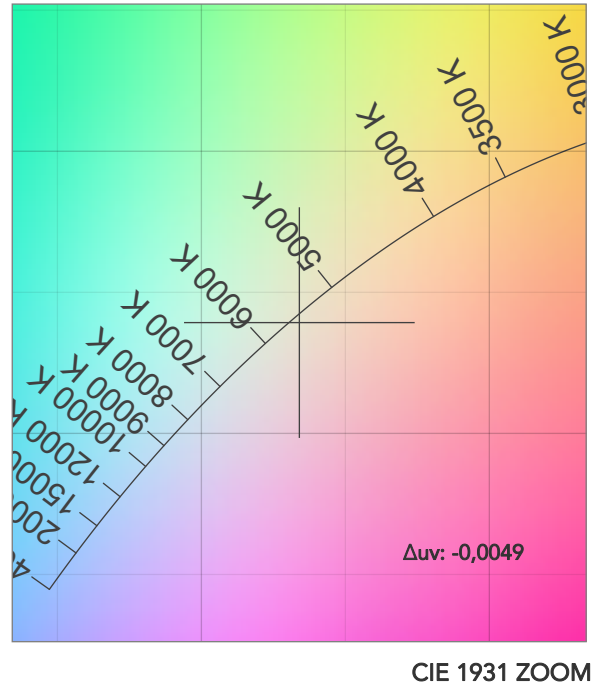
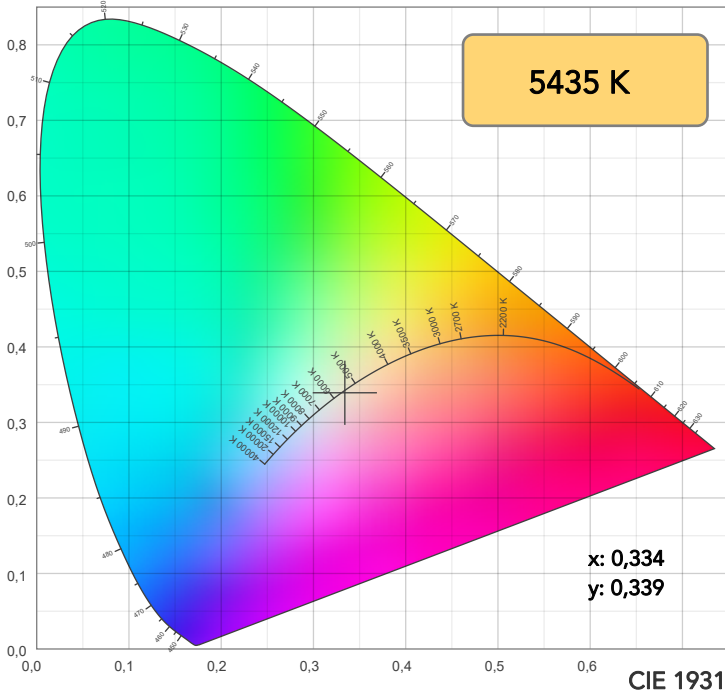
Beam angle 50%: 57,1°

Field angle 10%: 74°

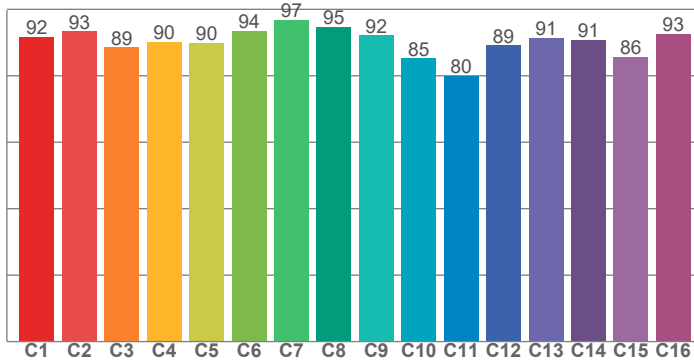
Cut off angle 2.5%: 84,8°

Spectra

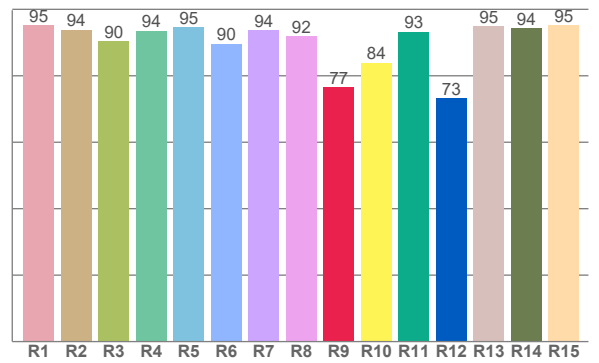




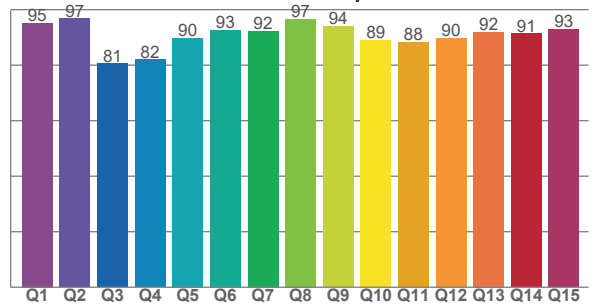
TM30: 90,1



CRI: 92,9 (R1-R8)



CQS: 89,8



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
95,2	93,9	90,3	93,6	94,5	89,6	93,8	92,0	76,5	83,9	93,3	73,3	94,9	94,3	95,2

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,7	93,4	88,6	90,2	89,9	93,5	96,8	94,7	92,1	85,2	80,0	89,1	91,4	90,9	85,7	92,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,2	96,7	80,6	81,9	89,8	92,6	92,2	96,6	94,0	89,0	88,3	89,7	91,9	91,4	92,9

COLOR PARAMETERS

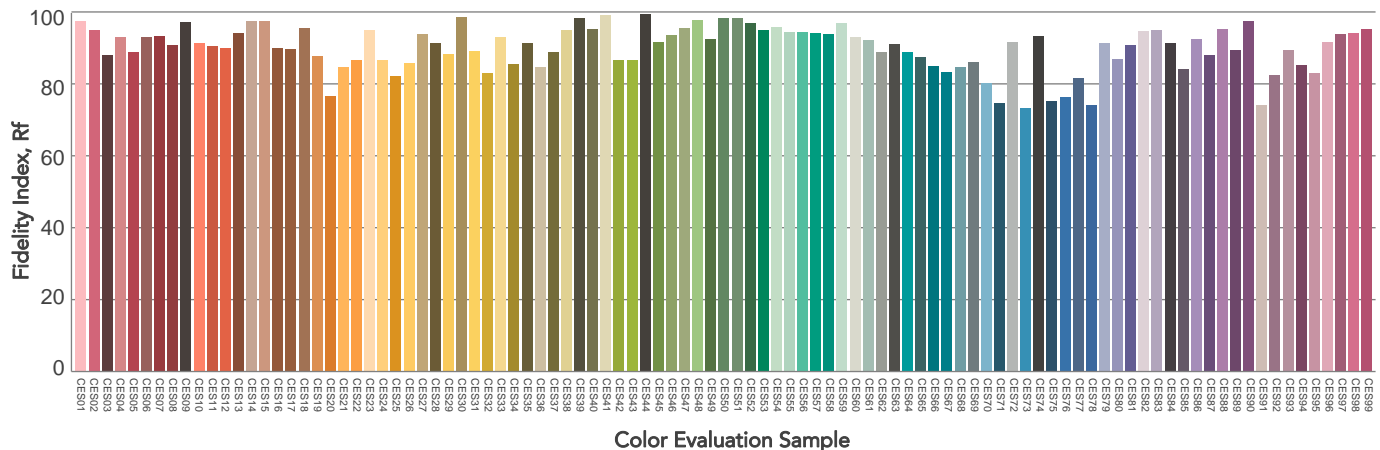
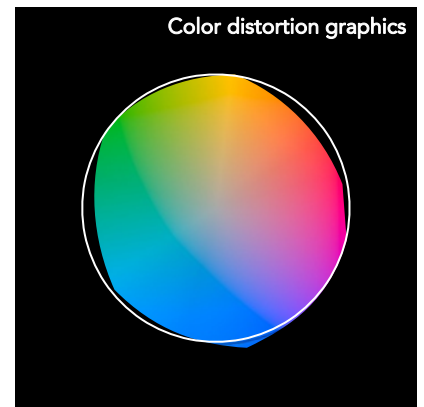
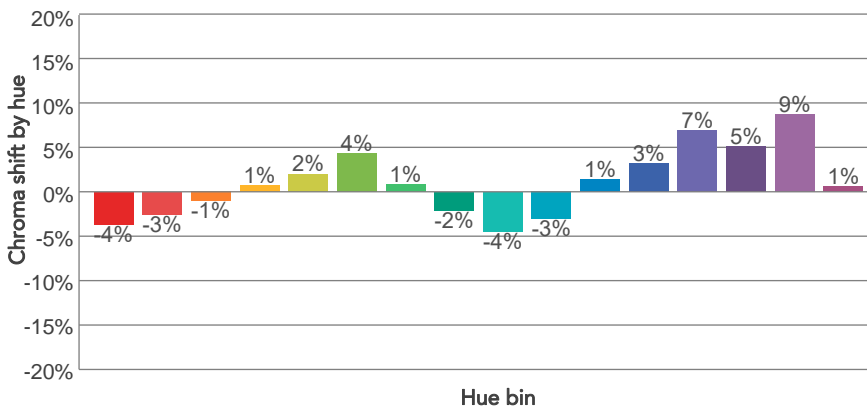
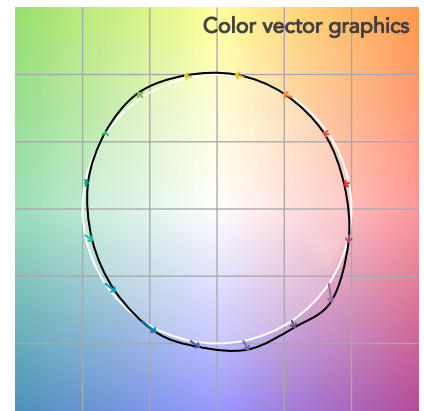
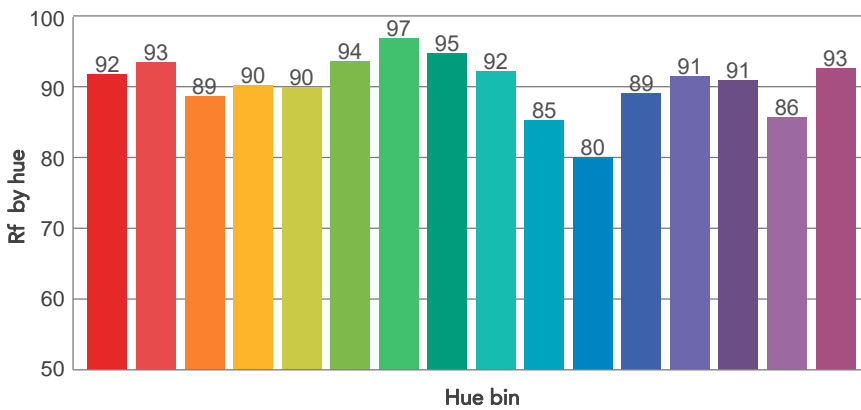
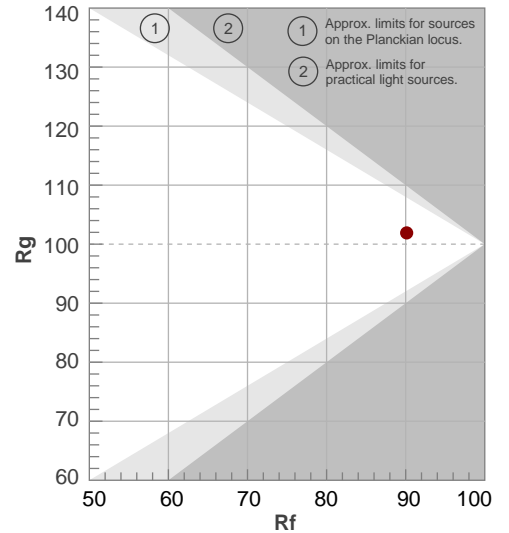
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5435 K	92,9	76,5	90,1	101,9	89,8	95	0,334	0,339	-0,0049

# TM30 DETAILS

**Rf 90,1**  
Fidelity index Rf

**Rg 101,9**  
Gammut index

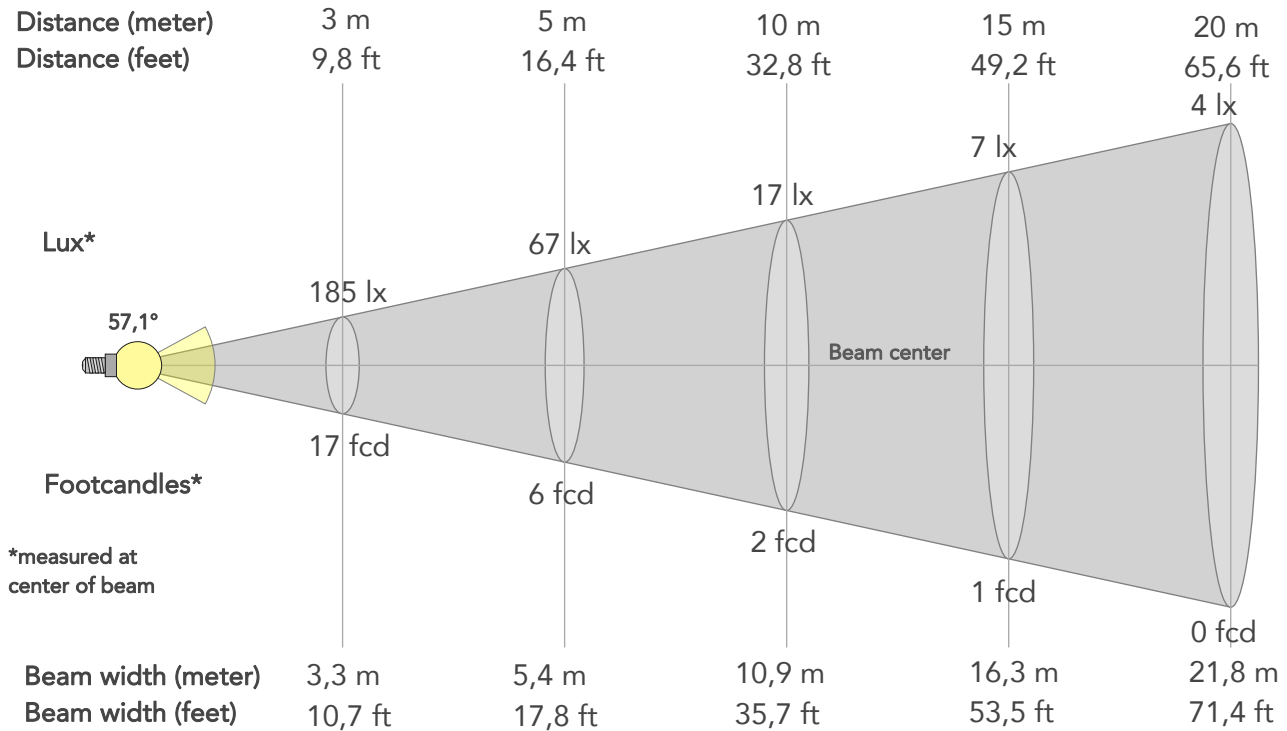
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	93	-3%	3%
3	89	-1%	6%
4	90	1%	6%
5	90	2%	4%
6	94	4%	1%
7	97	1%	-1%
8	95	-2%	0%
9	92	-4%	5%
10	85	-3%	9%
11	80	1%	12%
12	89	3%	7%
13	91	7%	2%
14	91	5%	-1%
15	86	9%	-10%
16	93	1%	-5%



# BEAM DETAILS



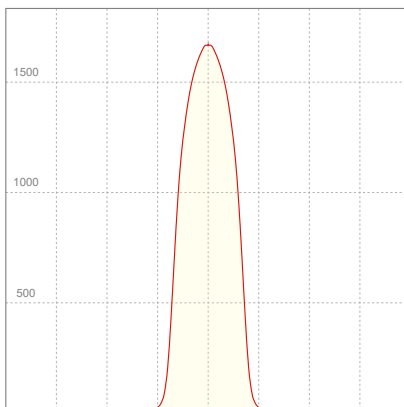
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57,1°	74°	84,8°	100,0%	99,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1667lx	417lx	185lx	104lx	67lx	30lx	17lx	7lx	4lx	3lx	2lx	1lx	1lx
Footcand.	155fcd	39fcd	17fcd	10fcd	6fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,3m	4,4m	5,4m	8,2m	10,9m	16,3m	21,8m	27,2m	32,6m	43,5m	54,4m
Beam wid.	3,6ft	7,2ft	10,7ft	14,3ft	17,8ft	26,8ft	35,7ft	53,5ft	71,4ft	89,2ft	107,1ft	142,8ft	178,5ft

## LINEAR DISTRIBUTION DIAGRAM

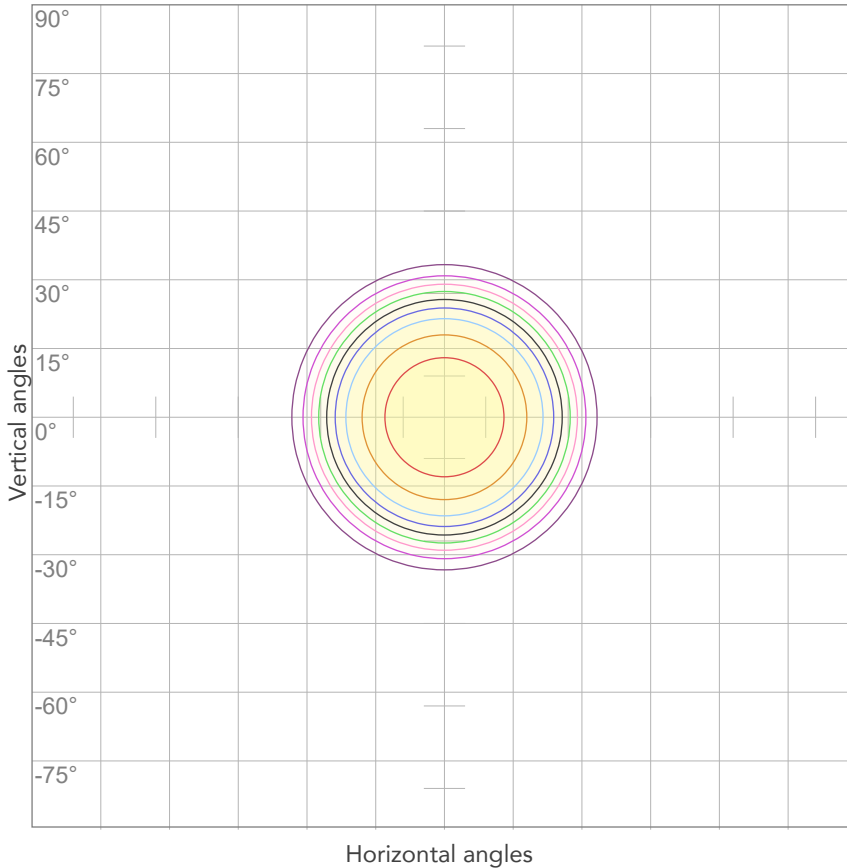


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,103A	20,7W	62lm/W

Power Fc
0,9

## ISO CANDELA DIAGRAM



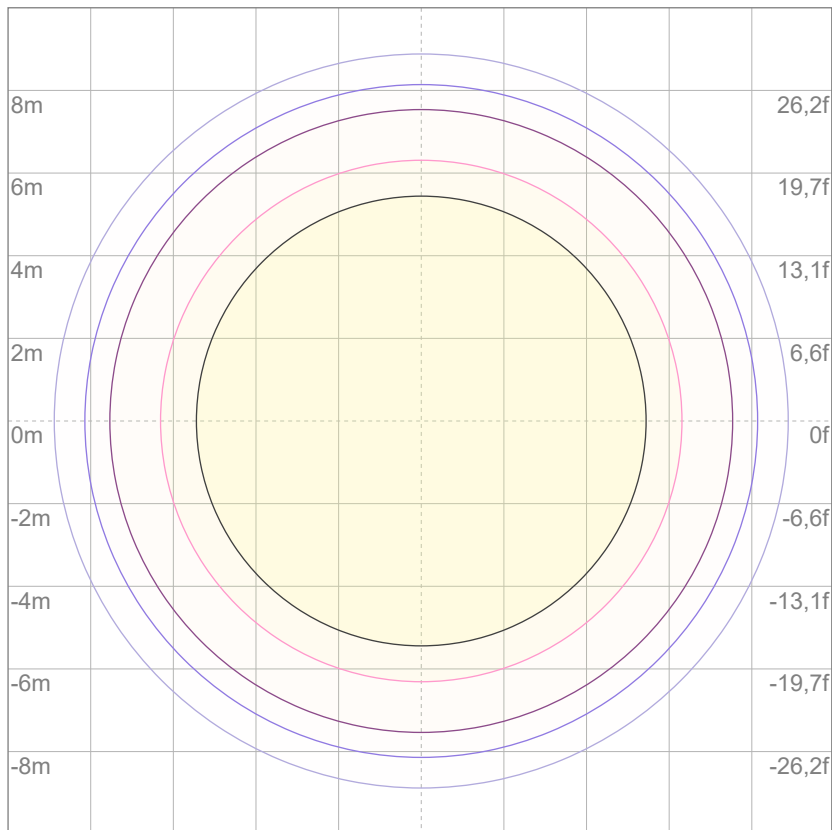
10%	167 cd
20%	333 cd
30%	500 cd
40%	667 cd
50%	834 cd
60%	1000 cd
70%	1167 cd
80%	1334 cd

Conditions:

Number of c-planes: 2

Candela at center: 1667 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,500 lx
5%	0,834 lx
10%	1,67 lx
30%	5,00 lx
50%	8,34 lx

Conditions:

Number of c-planes: 2

Lux at center: 16,7 lx

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



Total lumen output:

639 lm

Peak candela output:

5705 cd

Light quality:

CRI: 93,2

Color temperature:

5404 K

**PRODUCT NAME:**

ECLMINI DAT/CC

**MEASUREMENT CONDITIONS:**

Beam angle:

Wash 2550 Min Zoom

Target:

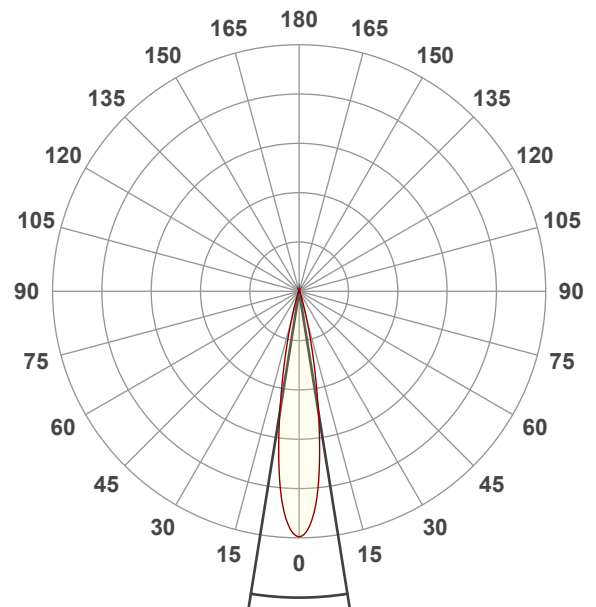
5600K

Operator:

Paolo Carvone

Date and time:

27/07/2022 16:02:30

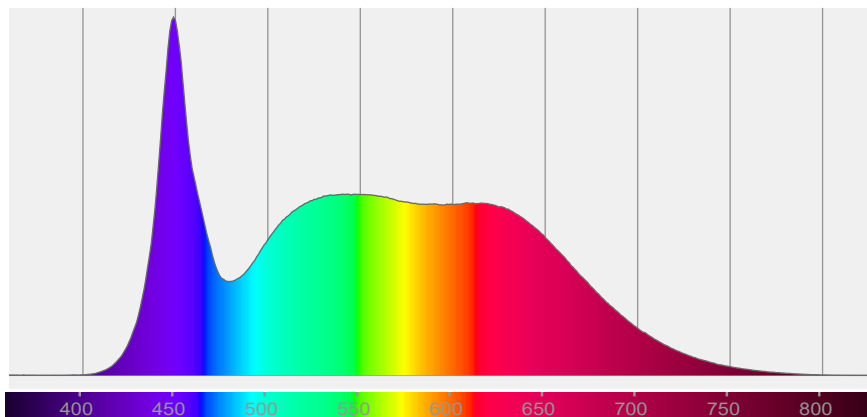


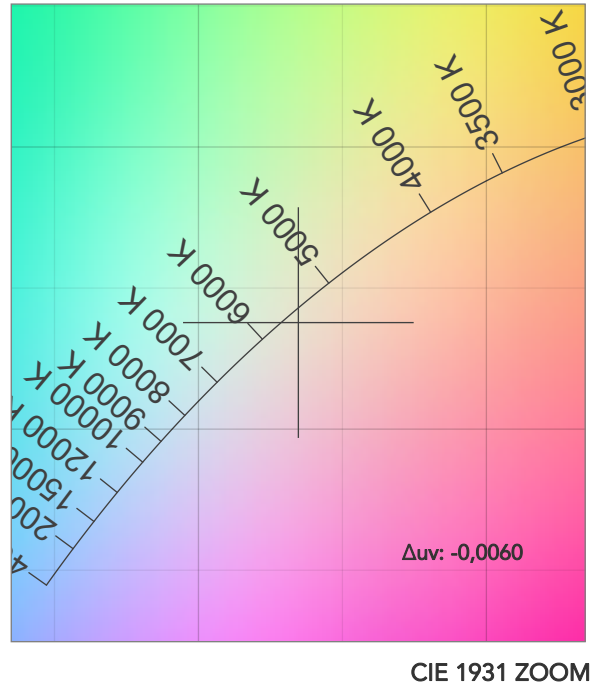
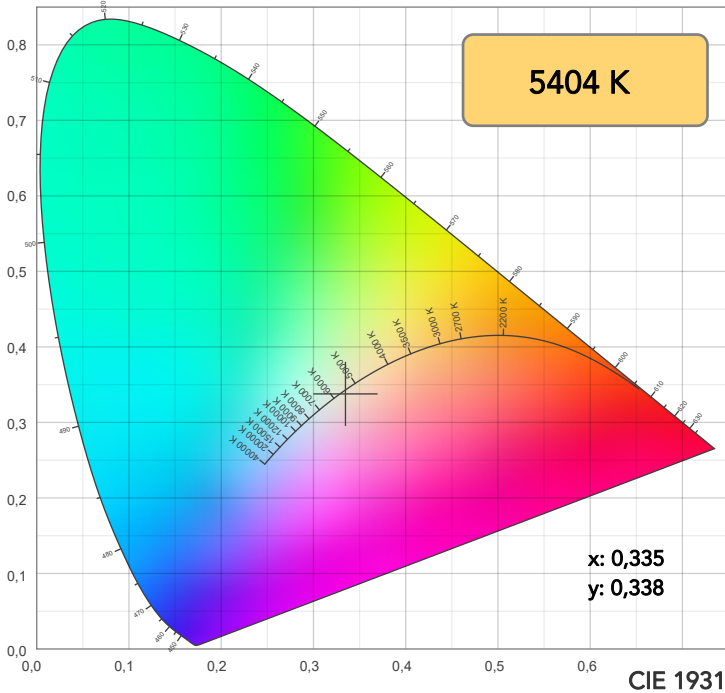
Beam angle 50%: 18,1°

Field angle 10%: 31,6°

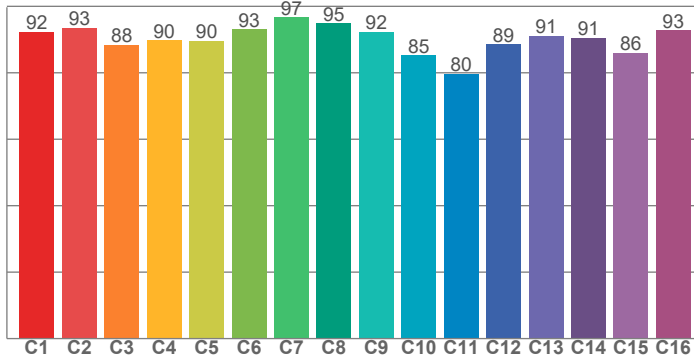
Cut off angle 2.5%: 42,2°

Spectra

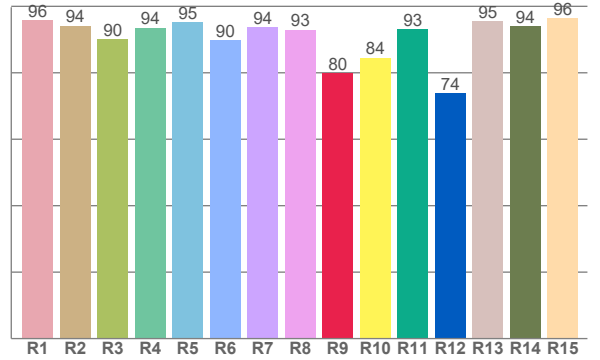




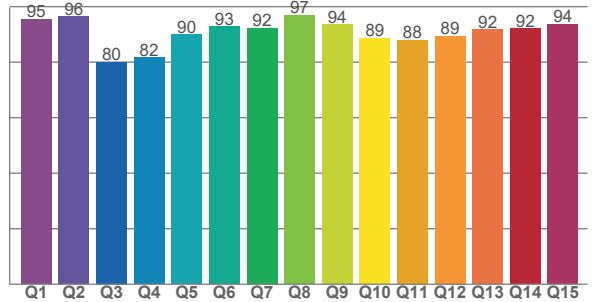
TM30: 90,0



CRI: 93,2 (R1-R8)



CQS: 89,7



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	90,0	93,6	95,3	89,8	93,7	92,9	79,8	84,5	93,2	73,9	95,5	94,1	96,5

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,2	93,4	88,4	89,8	89,5	93,0	96,7	94,9	92,3	85,3	79,7	88,6	91,1	90,6	86,0	92,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,5	96,4	80,1	81,7	90,0	92,8	92,3	96,9	93,5	88,6	87,9	89,4	91,7	92,1	93,6

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5404 K	93,2	79,8	90,0	102,4	89,7	94	0,335	0,338	-0,0060

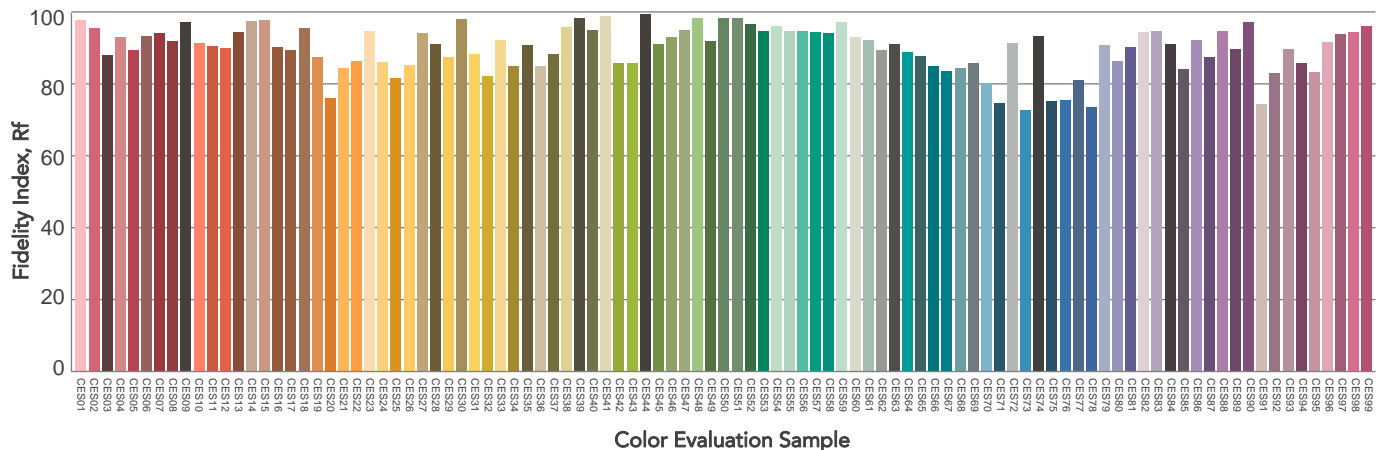
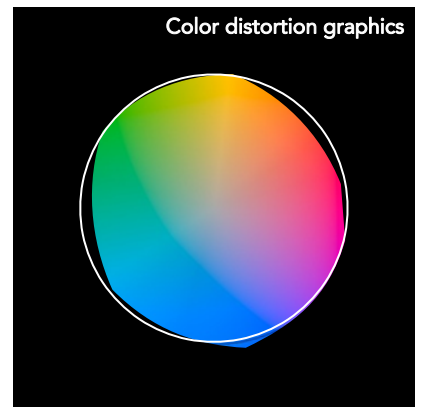
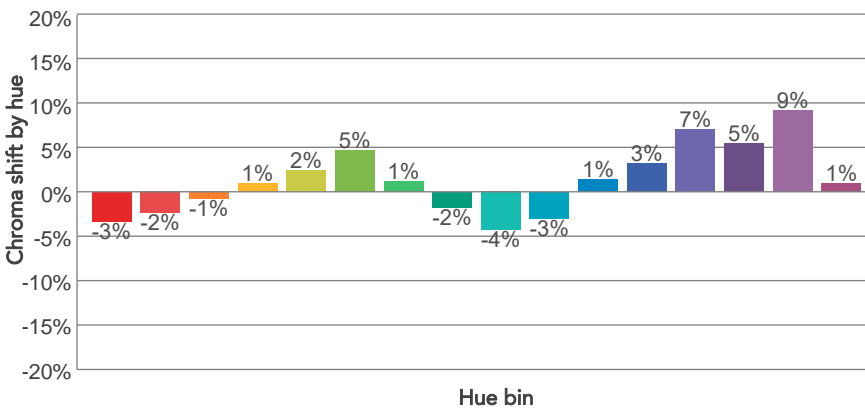
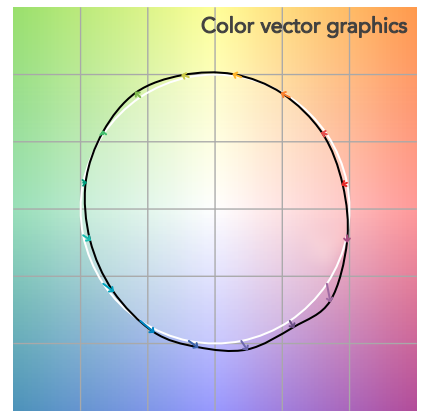
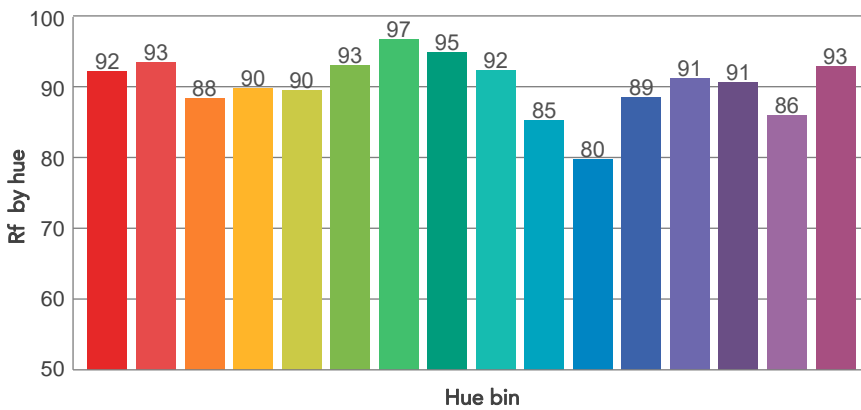
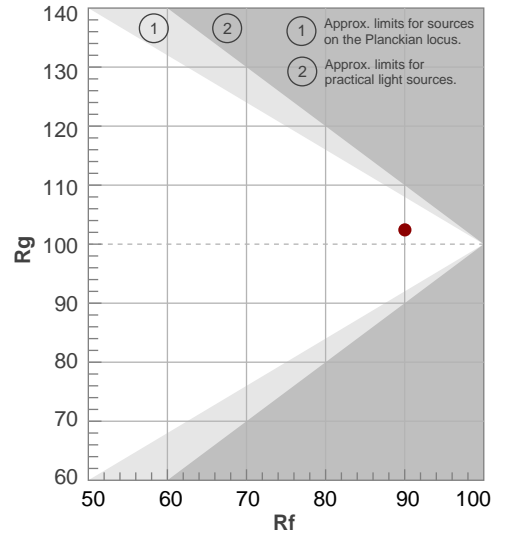


# TM30 DETAILS

**Rf 90,0**  
Fidelity index Rf

**Rg 102,4**  
Gammut index

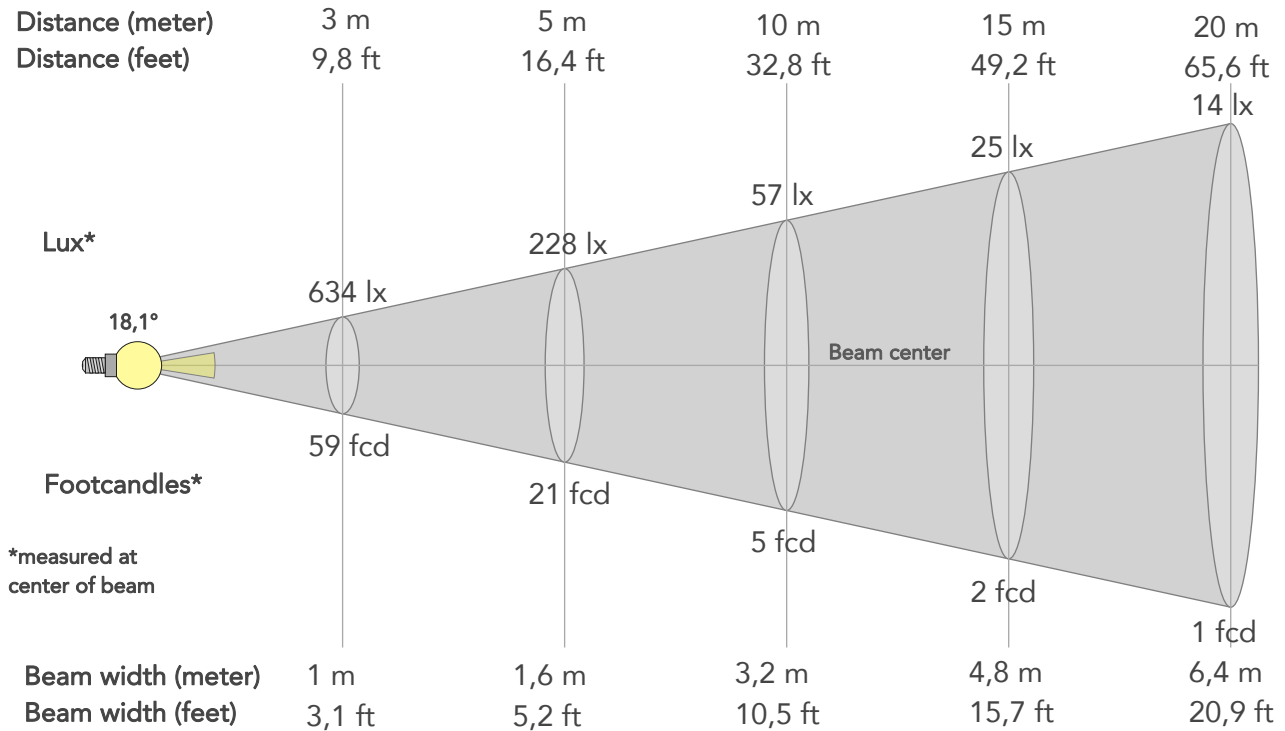
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-1%
2	93	-2%	3%
3	88	-1%	6%
4	90	1%	6%
5	90	2%	4%
6	93	5%	1%
7	97	1%	-1%
8	95	-2%	-1%
9	92	-4%	4%
10	85	-3%	8%
11	80	1%	13%
12	89	3%	7%
13	91	7%	3%
14	91	5%	0%
15	86	9%	-9%
16	93	1%	-4%



# BEAM DETAILS



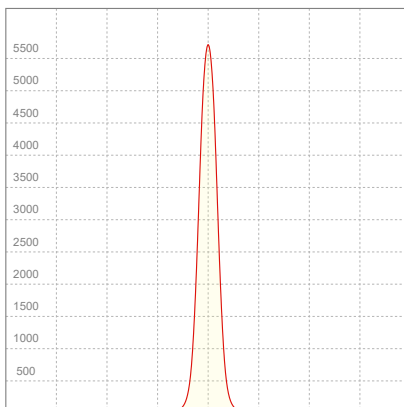
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,1°	31,6°	42,2°	100,0%	100,0%



## 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	5705lx	1426lx	634lx	357lx	228lx	101lx	57lx	25lx	14lx	9lx	6lx	4lx	2lx
Footcand.	530fcd	133fcd	59fcd	33fcd	21fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	1m	1,3m	1,6m	2,4m	3,2m	4,8m	6,4m	8m	9,6m	12,8m	16m
Beam wid.	1,1ft	2,1ft	3,1ft	4,2ft	5,2ft	7,9ft	10,5ft	15,7ft	20,9ft	26,2ft	31,4ft	41,9ft	52,4ft

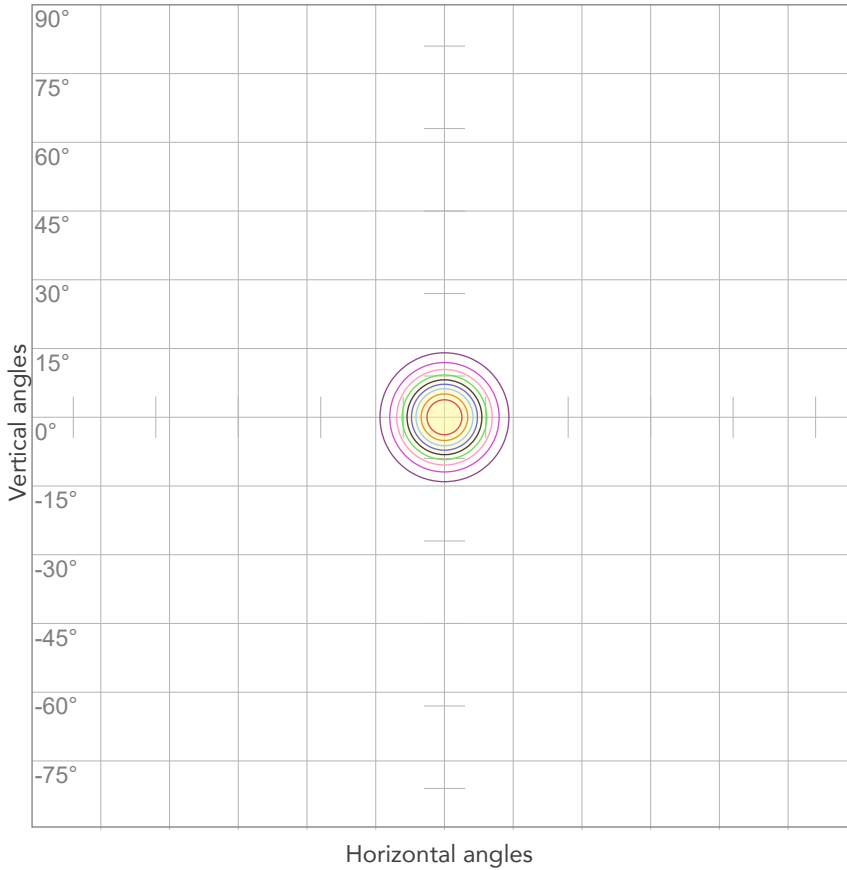
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,102A	20,7W	31lm/W
Power Fc			
0,9			

## ISO CANDELA DIAGRAM



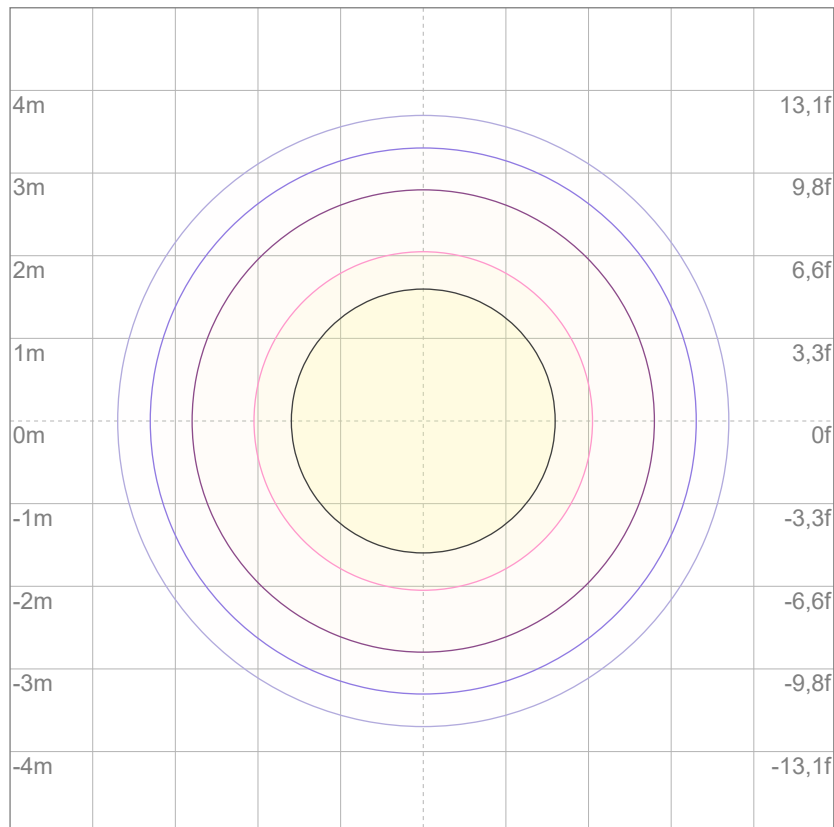
10%	571 cd
20%	1141 cd
30%	1712 cd
40%	2282 cd
50%	2853 cd
60%	3423 cd
70%	3994 cd
80%	4564 cd

Conditions:

Number of c-planes: 2

Candela at center: 5705 cd

## ISO LUX DIAGRAM



3%	1,71 lx
5%	2,85 lx
10%	5,71 lx
30%	17,1 lx
50%	28,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 57,1 lx

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