



# Photometric Test Report



**ECLPARIPMFC**

100W IP65 RGB+WW  
single source LED PAR

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Full on	5
Red	8
Green	11
Blue	14
White	17
2800K	20
3200K	25
4000K	30
5600K	35
6000K	40

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Full on	45
Red	48
Green	51
Blue	54
White	57
2800K	60
3200K	65
4000K	70
5600K	75
6000K	80

### Wide Lens preset:

Full on	85
Red	88
Green	91
Blue	94
White	97
2800K	100

3200K	105
4000K	110
5600K	115
6000K	120

## 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 25°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-7000 and Gossen Mavospec Base, this is done to ensure, that the data in the photometric report are as accurate as possible.



Total lumen output:

3324 lm

Peak candela output:

44300 cd

PRODUCT NAME:

ECLPARIPMFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow Lens

Target:

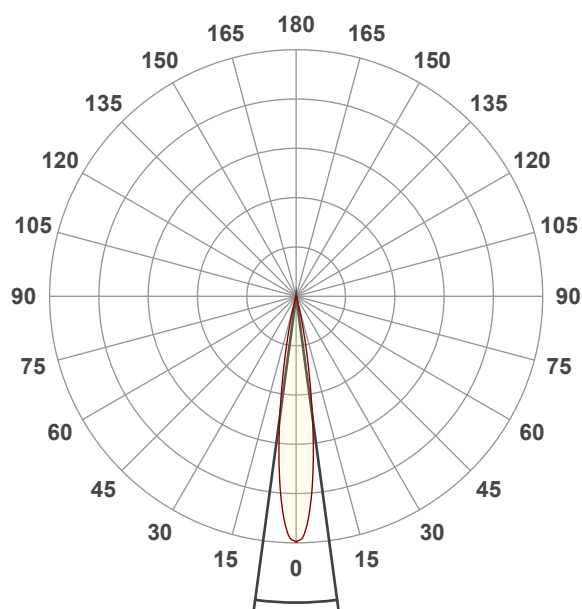
Full On

Operator:

Paolo Carvone

Date and time:

01/08/2023 16:57:25

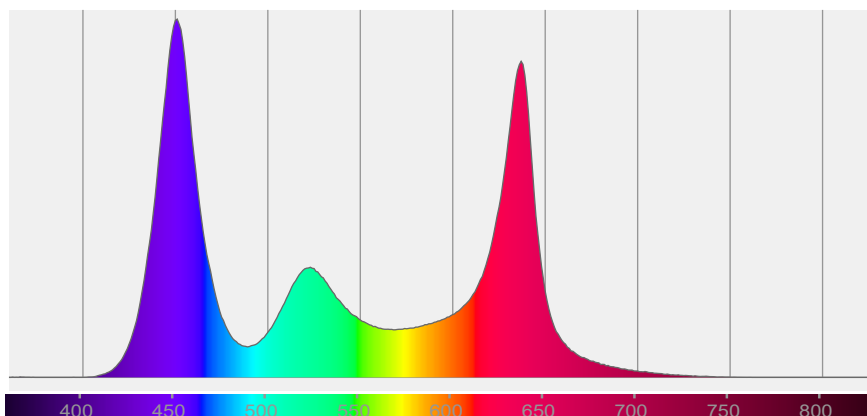


Beam angle 50%: 15,4°

Field angle 10%: 26,2°

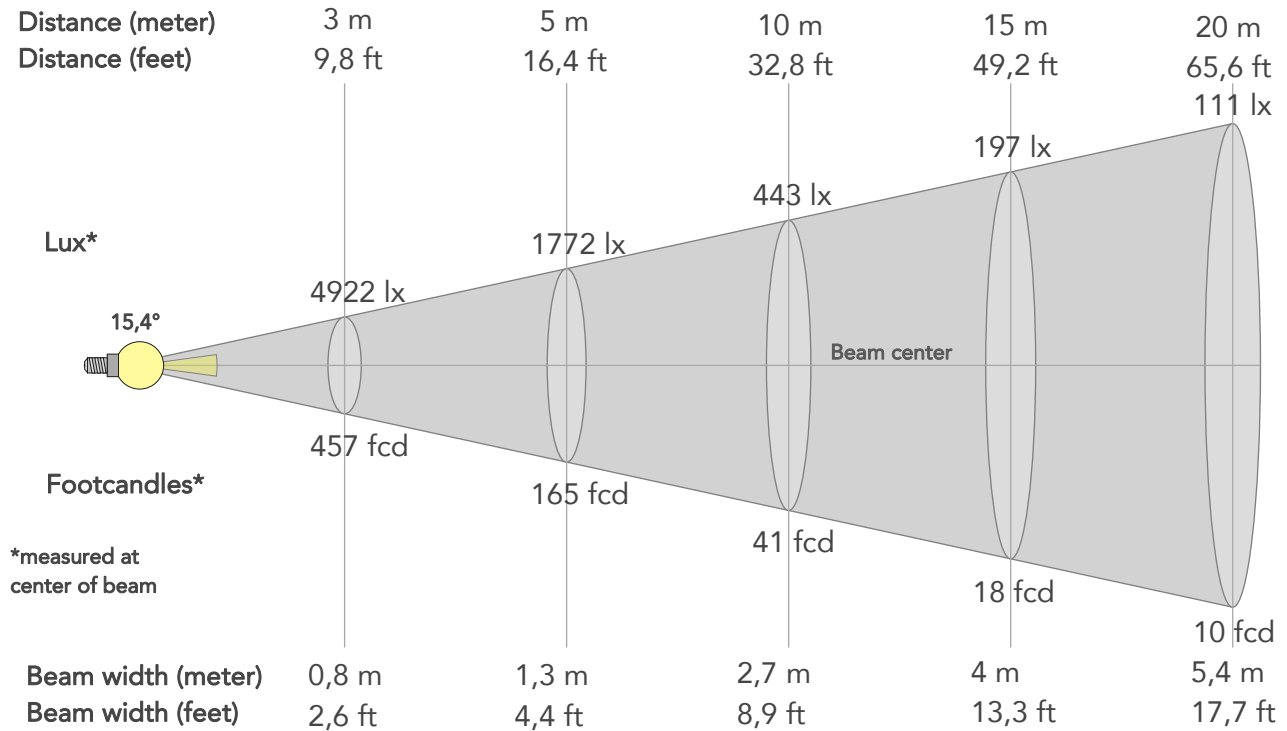
Cut off angle 2.5%: 32,4°

Spectra



## BEAM DETAILS

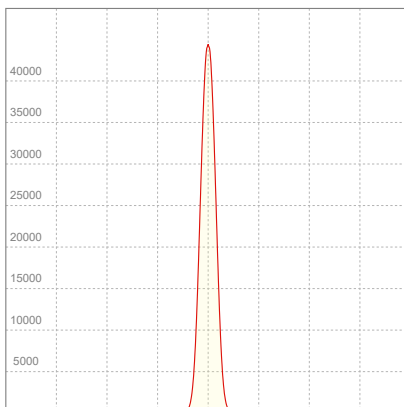
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	26,2°	32,4°	100,0%	100,0%



### 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	44300lx	11075lx	4922lx	2769lx	1772lx	788lx	443lx	197lx	111lx	71lx	49lx	28lx	18lx
Footcand.	4116fcd	1029fcd	457fcd	257fcd	165fcd	73fcd	41fcd	18fcd	10fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,4m	6,7m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,6ft	8,9ft	13,3ft	17,7ft	22,1ft	26,6ft	35,4ft	44,3ft

### LINEAR DISTRIBUTION DIAGRAM

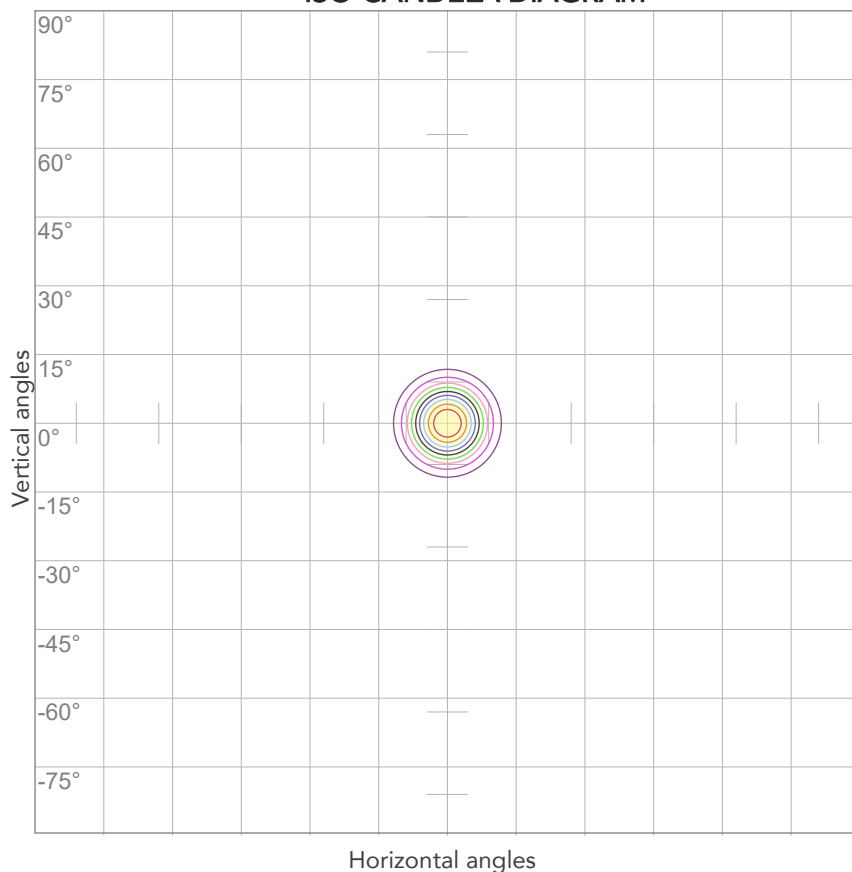


### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,507A	107,5W	31lm/W

Power FC
0,94

## ISO CANDELA DIAGRAM



10%	4430 cd
20%	8860 cd
30%	13290 cd
40%	17720 cd
50%	22150 cd
60%	26580 cd
70%	31010 cd
80%	35440 cd

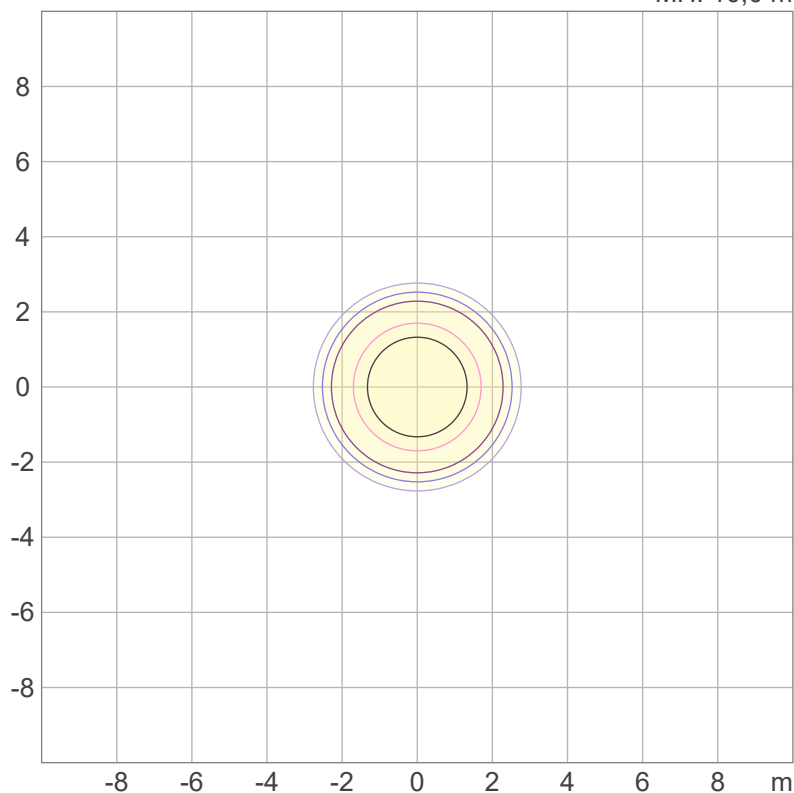
### Conditions:

Number of c-planes: 2

Candela at center: 44300 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	13,3 lx
5%	22,1 lx
10%	44,3 lx
30%	133 lx
50%	221 lx

### Conditions:

Number of c-planes: 2

Lux at center: 443 lx

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



Total lumen output:

910 lm

Peak candela output:

11973 cd

PRODUCT NAME:

ECLPARIPMFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow Lens

Target:

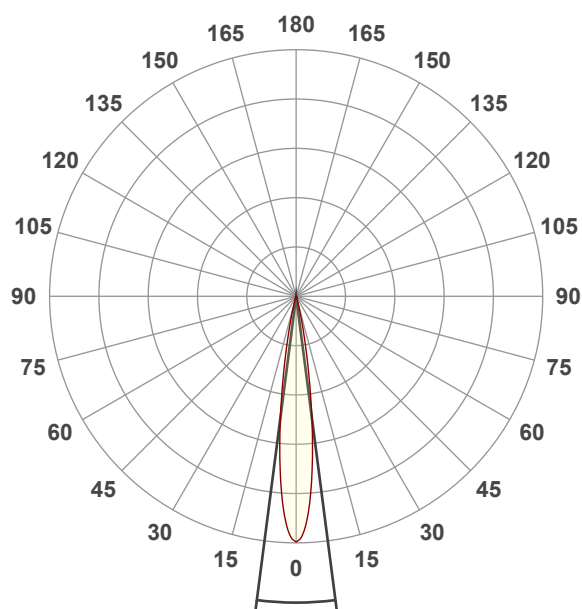
Red

Operator:

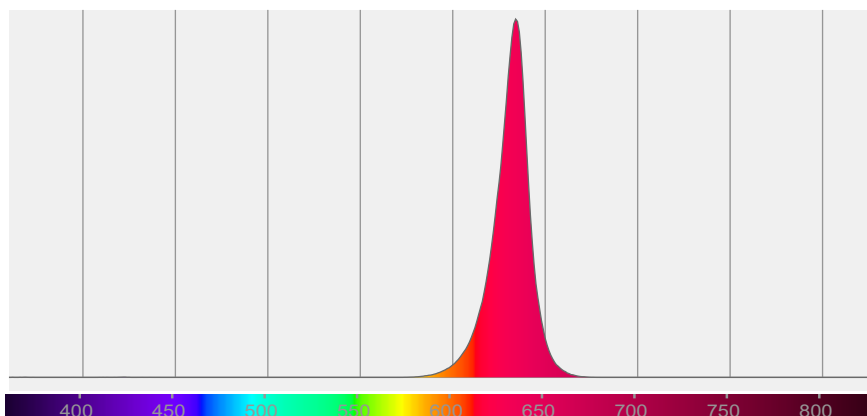
Paolo Carvone

Date and time:

01/08/2023 17:04:20



Spectra

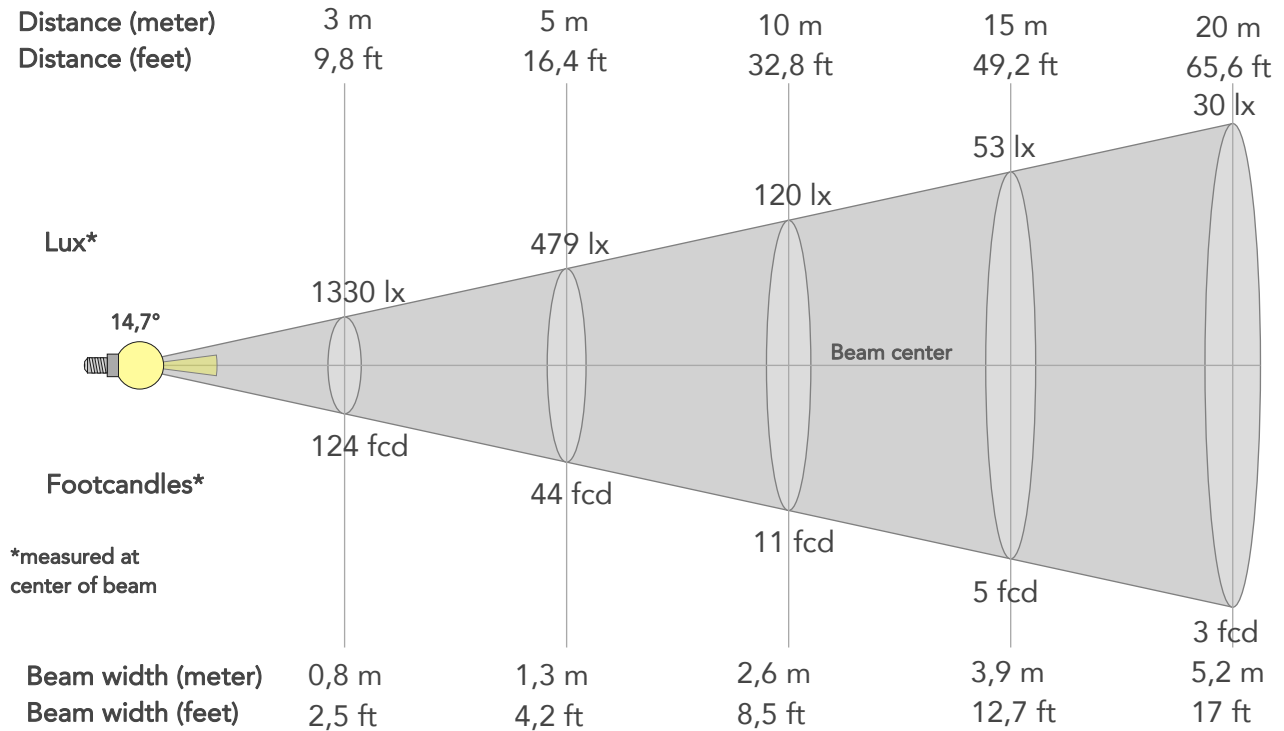




## BEAM DETAILS



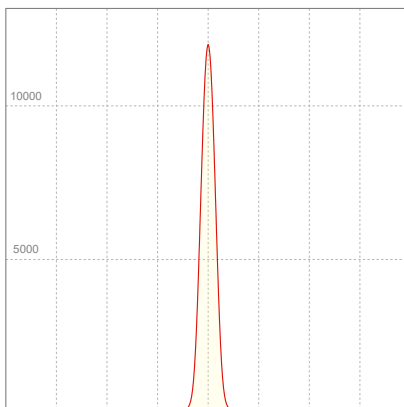
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,7°	25,5°	32,7°	100,0%	99,3%



### BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	11973lx	2993lx	1330lx	748lx	479lx	213lx	120lx	53lx	30lx	19lx	13lx	7lx	5lx
Footcand.	1112fcd	278fcd	124fcd	70fcd	44fcd	20fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,6m	3,9m	5,2m	6,5m	7,8m	10,4m	12,9m
Beam wid.	0,9ft	1,7ft	2,5ft	3,4ft	4,2ft	6,4ft	8,5ft	12,7ft	17ft	21,2ft	25,5ft	34ft	42,4ft

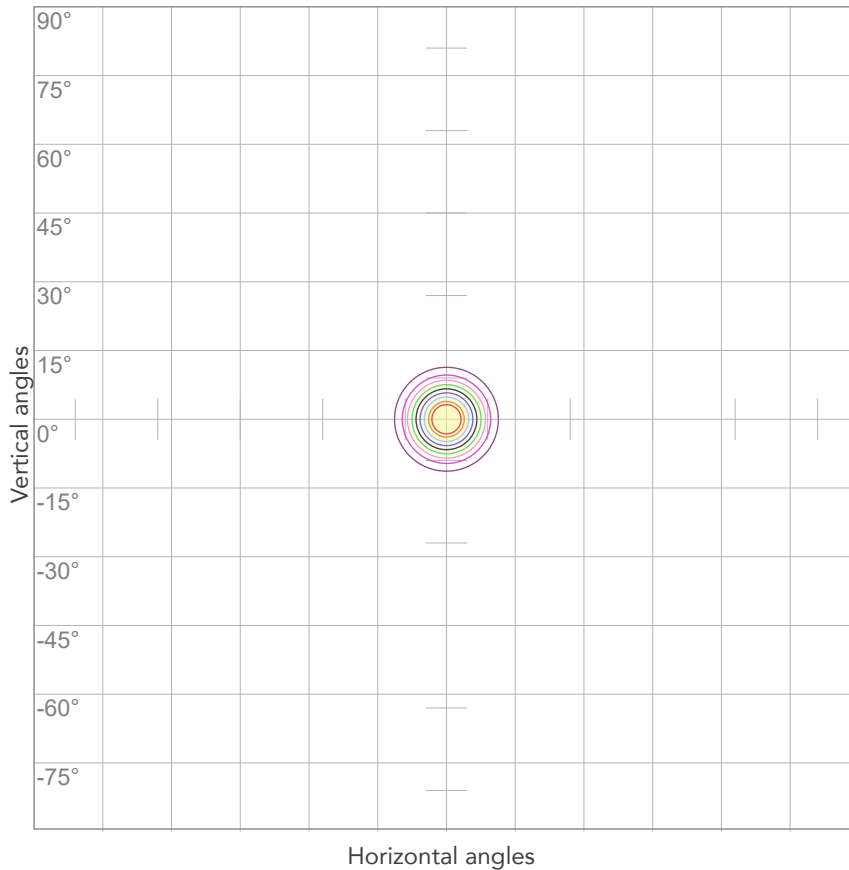
### LINEAR DISTRIBUTION DIAGRAM



### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,165A	30,2W	30lm/W
Power FC			
0,81			

## ISO CANDELA DIAGRAM



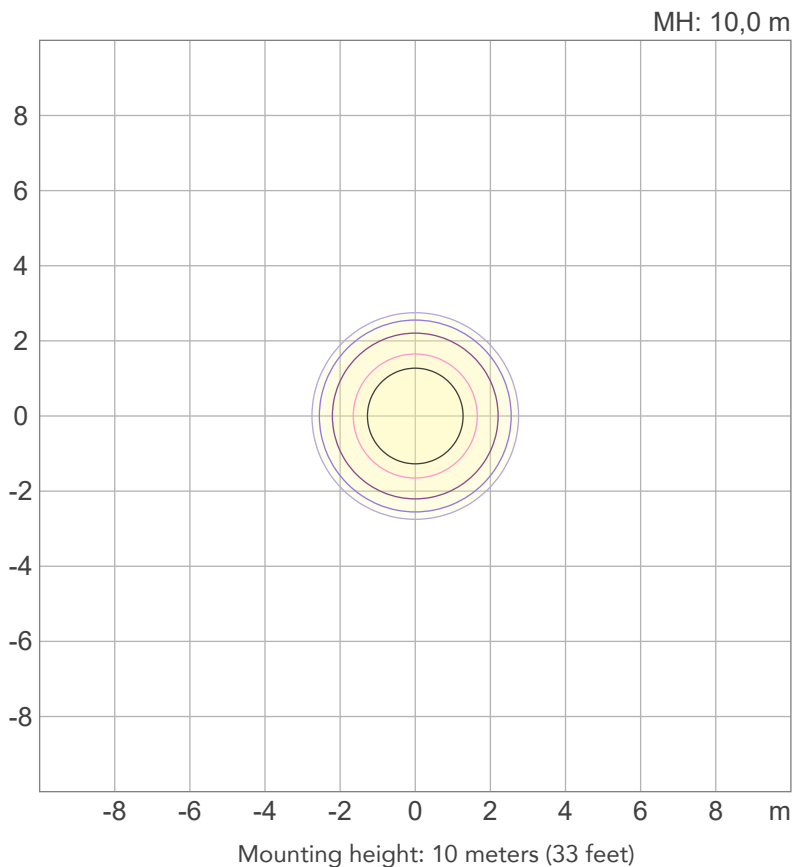
10%	1197 cd
20%	2395 cd
30%	3592 cd
40%	4789 cd
50%	5986 cd
60%	7184 cd
70%	8381 cd
80%	9578 cd

### Conditions:

Number of c-planes: 2

Candela at center: 11973 cd

## ISO LUX DIAGRAM



3%	3,59 lx
5%	5,99 lx
10%	12,0 lx
30%	35,9 lx
50%	59,9 lx

### Conditions:

Number of c-planes: 2

Lux at center: 120 lx

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



Total lumen output:

1159 lm

Peak candela output:

14128 cd

PRODUCT NAME:

ECLPARIPMFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow Lens

Target:

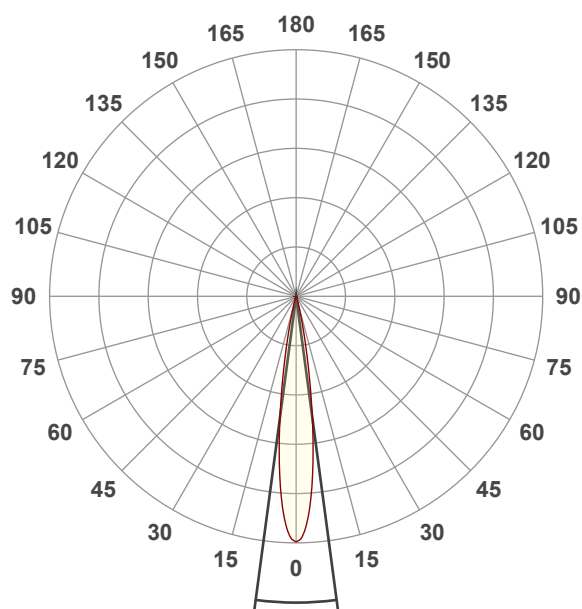
Green

Operator:

Paolo Carvone

Date and time:

01/08/2023 17:12:43

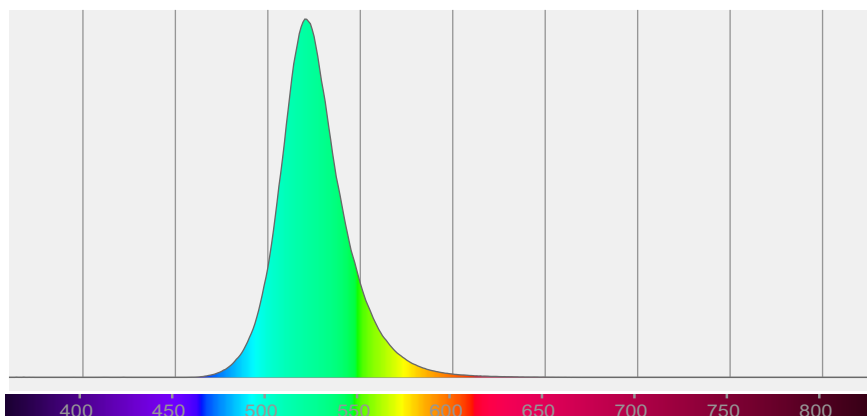


Beam angle 50%: 15,2°

Field angle 10%: 26°

Cut off angle 2.5%: 33,9°

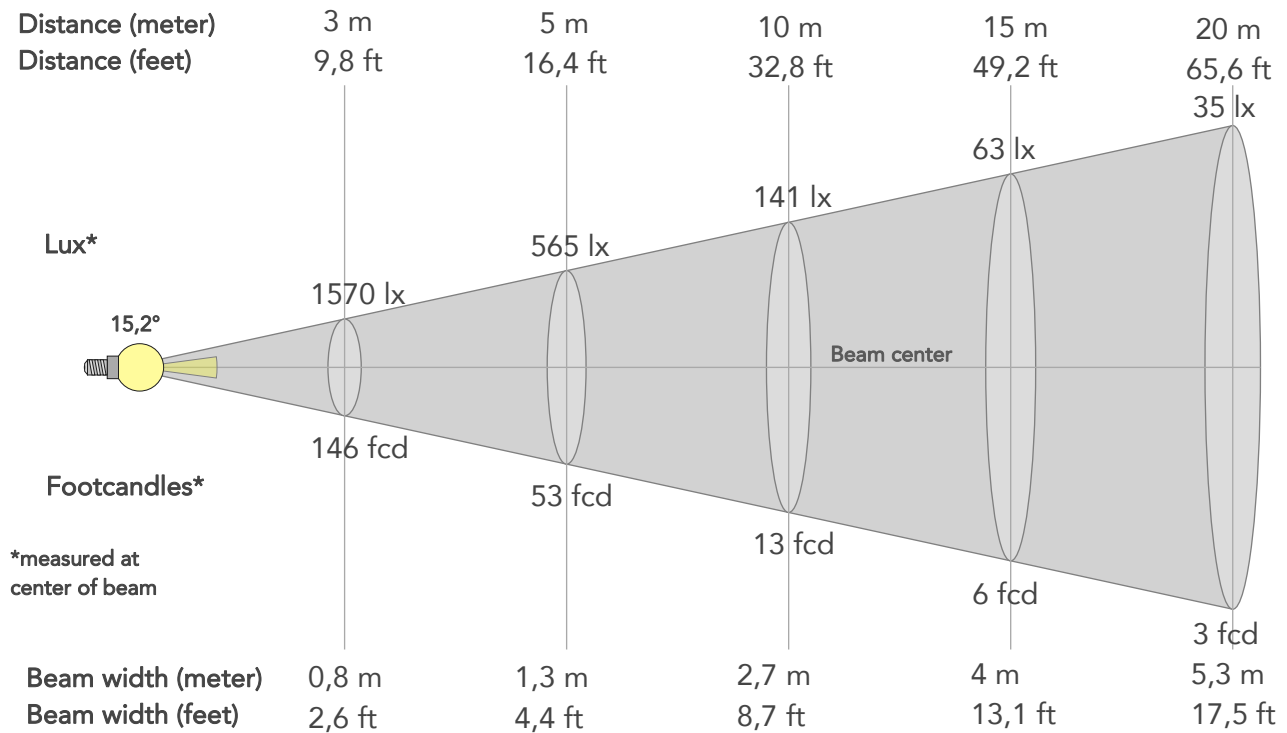
Spectra



# BEAM DETAILS



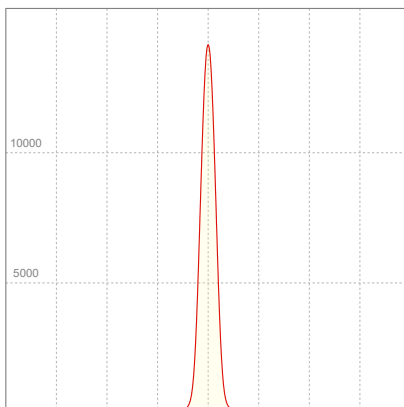
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,2°	26°	33,9°	99,9%	98,6%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	14128lx	3532lx	1570lx	883lx	565lx	251lx	141lx	63lx	35lx	23lx	16lx	9lx	6lx
Footcand.	1313fcd	328fcd	146fcd	82fcd	53fcd	23fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,7m	8m	10,7m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,6ft	8,7ft	13,1ft	17,5ft	21,9ft	26,2ft	35ft	43,7ft

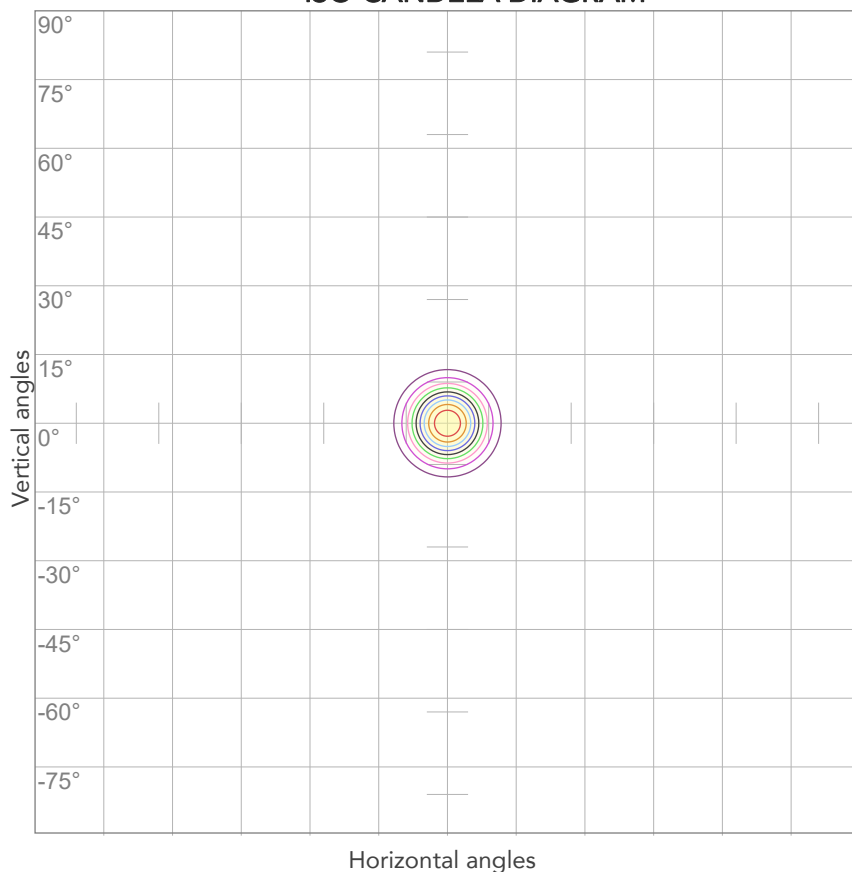
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,159A	28,9W	40lm/W
Power FC			
0,8			

## ISO CANDELA DIAGRAM



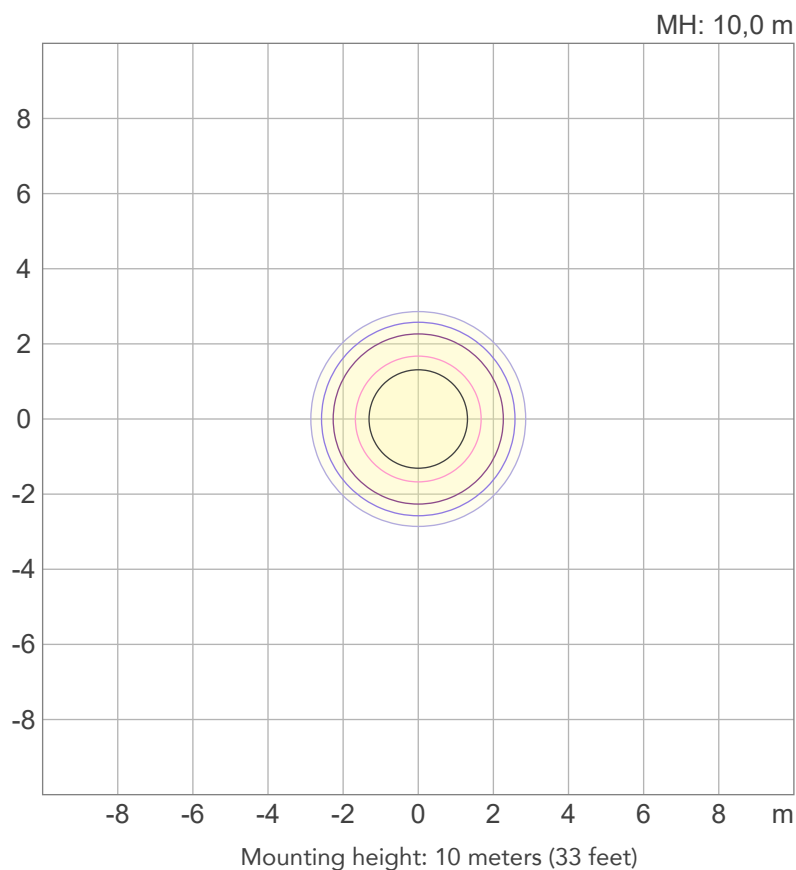
10%	1413 cd
20%	2826 cd
30%	4238 cd
40%	5651 cd
50%	7064 cd
60%	8477 cd
70%	9889 cd
80%	11302 cd

### Conditions:

Number of c-planes: 2

Candela at center: 14128 cd

## ISO LUX DIAGRAM



3%	4,24 lx
5%	7,06 lx
10%	14,1 lx
30%	42,4 lx
50%	70,6 lx

### Conditions:

Number of c-planes: 2

Lux at center: 141 lx

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



Total lumen output:

242 lm

Peak candela output:

2683 cd

PRODUCT NAME:

ECLPARIPMFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow Lens

Target:

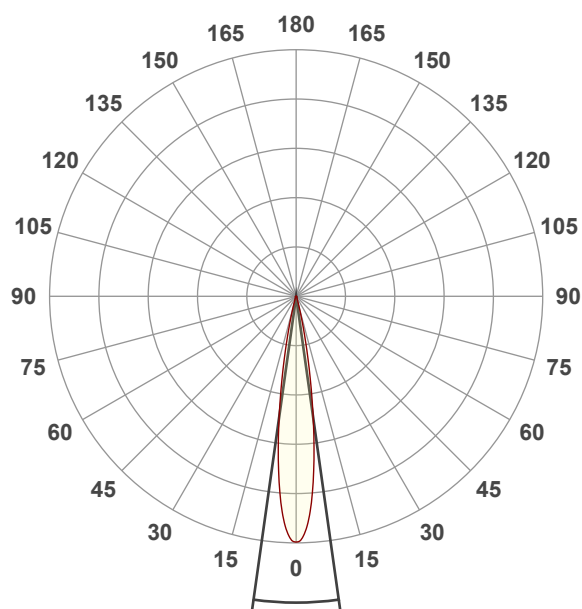
Blue

Operator:

Paolo Carvone

Date and time:

01/08/2023 17:14:07

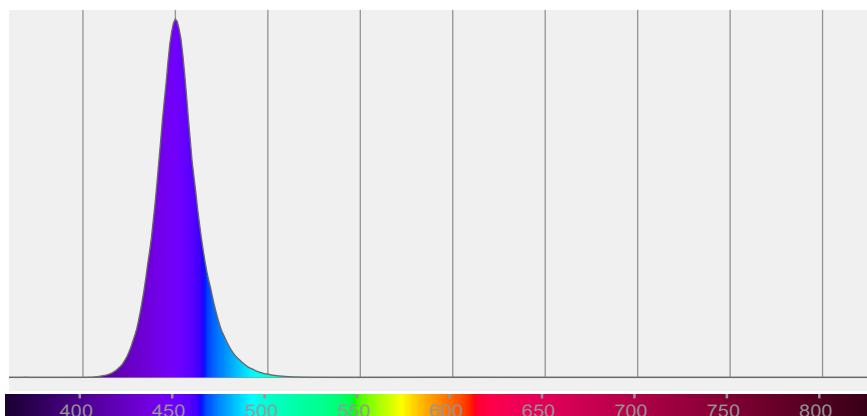


Beam angle 50%: 16°

Field angle 10%: 27,2°

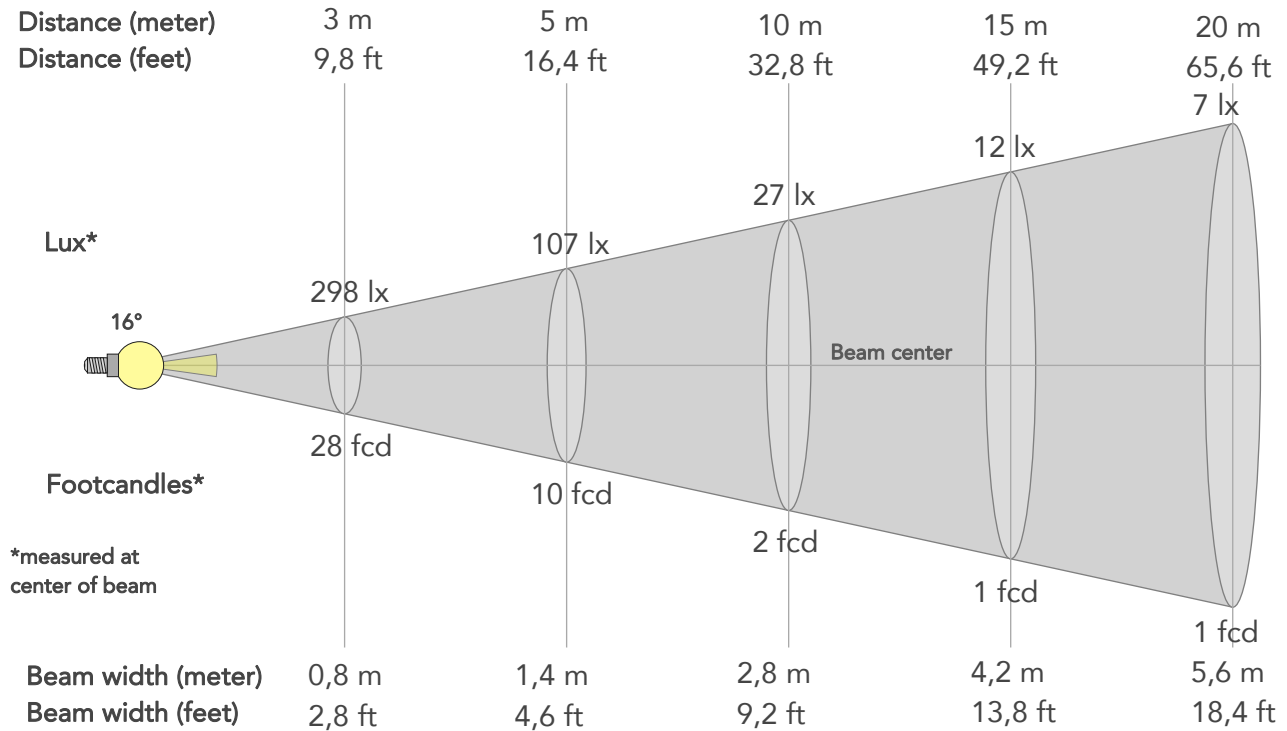
Cut off angle 2.5%: 35,1°

Spectra



## BEAM DETAILS

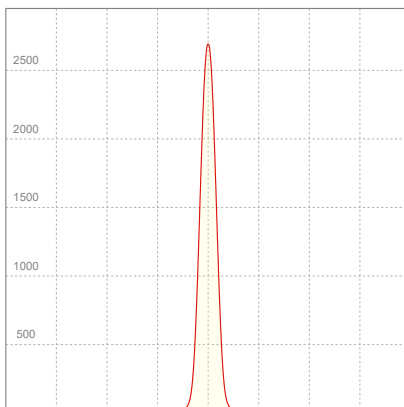
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16°	27,2°	35,1°	99,8%	98,3%



### BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2683lx	671lx	298lx	168lx	107lx	48lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	249fcd	62fcd	28fcd	16fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,4m	11,2m	14m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,6ft	6,9ft	9,2ft	13,8ft	18,4ft	23ft	27,6ft	36,9ft	46,1ft

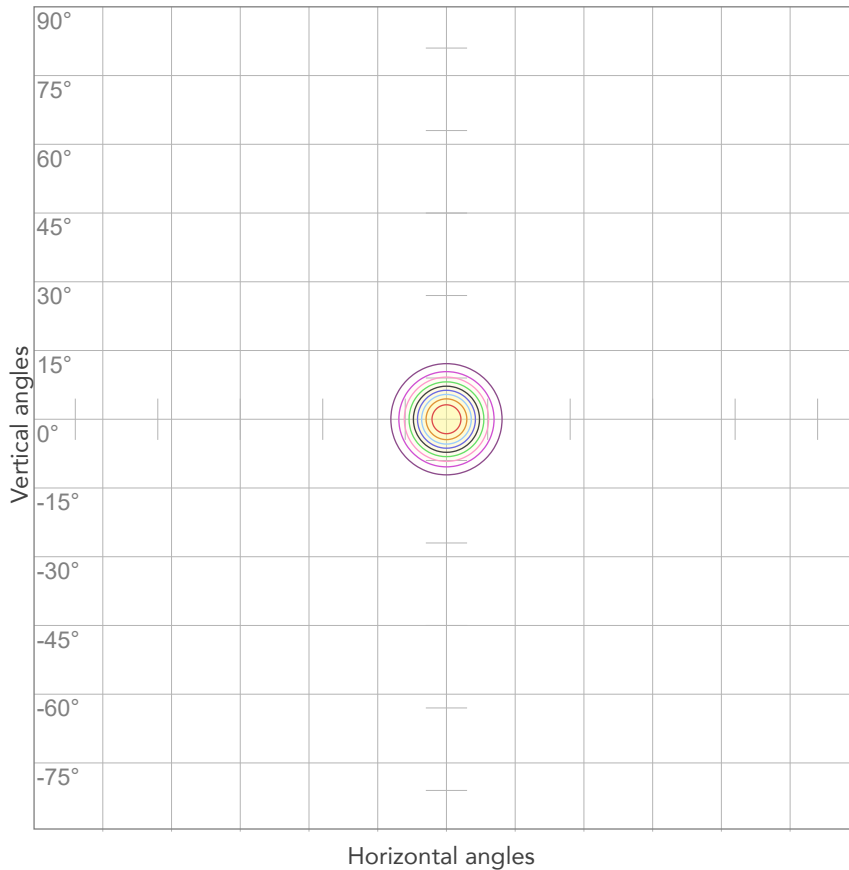
### LINEAR DISTRIBUTION DIAGRAM



### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,163A	29,7W	8lm/W
Power FC			
0,81			

## ISO CANDELA DIAGRAM



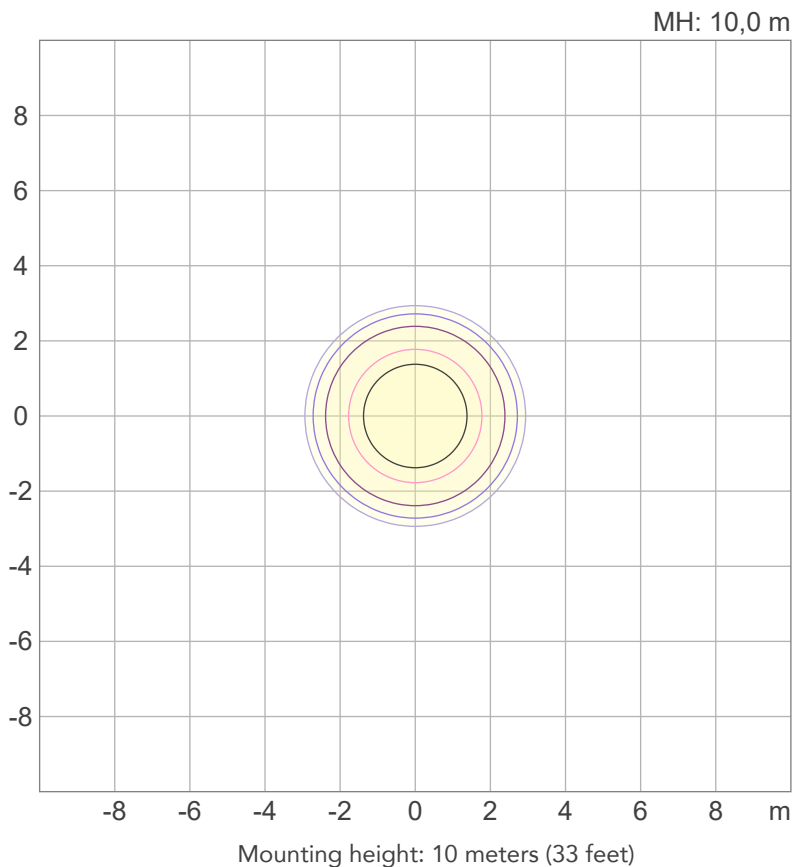
10%	268 cd
20%	537 cd
30%	805 cd
40%	1073 cd
50%	1342 cd
60%	1610 cd
70%	1878 cd
80%	2146 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2683 cd

## ISO LUX DIAGRAM



3%	0,805 lx
5%	1,34 lx
10%	2,68 lx
30%	8,05 lx
50%	13,4 lx

### Conditions:

Number of c-planes: 2

Lux at center: 26,8 lx

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





Total lumen output:

1954 lm

Peak candela output:

22513 cd

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Narrow Lens

Target:

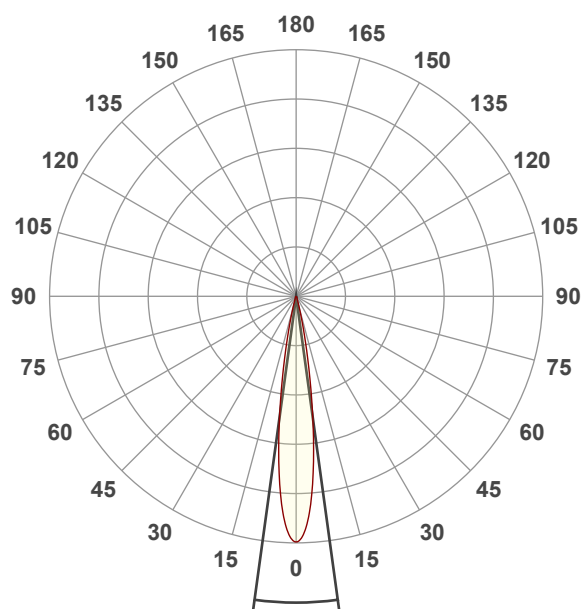
White

Operator:

Paolo Carvone

Date and time:

01/08/2023 17:15:47

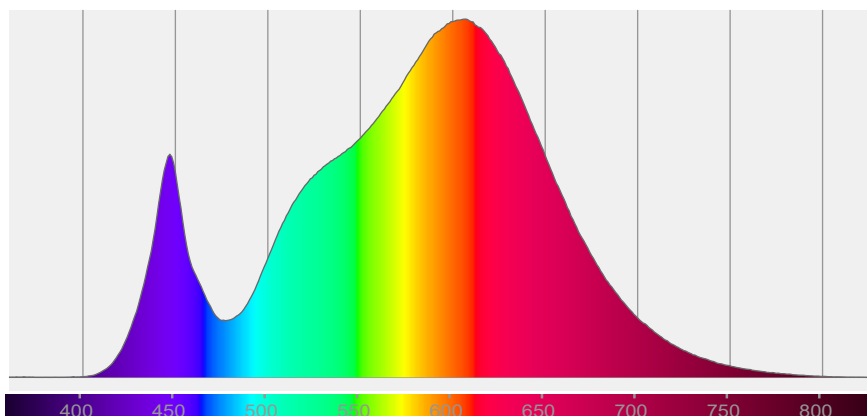


Beam angle 50%: 15,6°

Field angle 10%: 26,8°

Cut off angle 2.5%: 34,9°

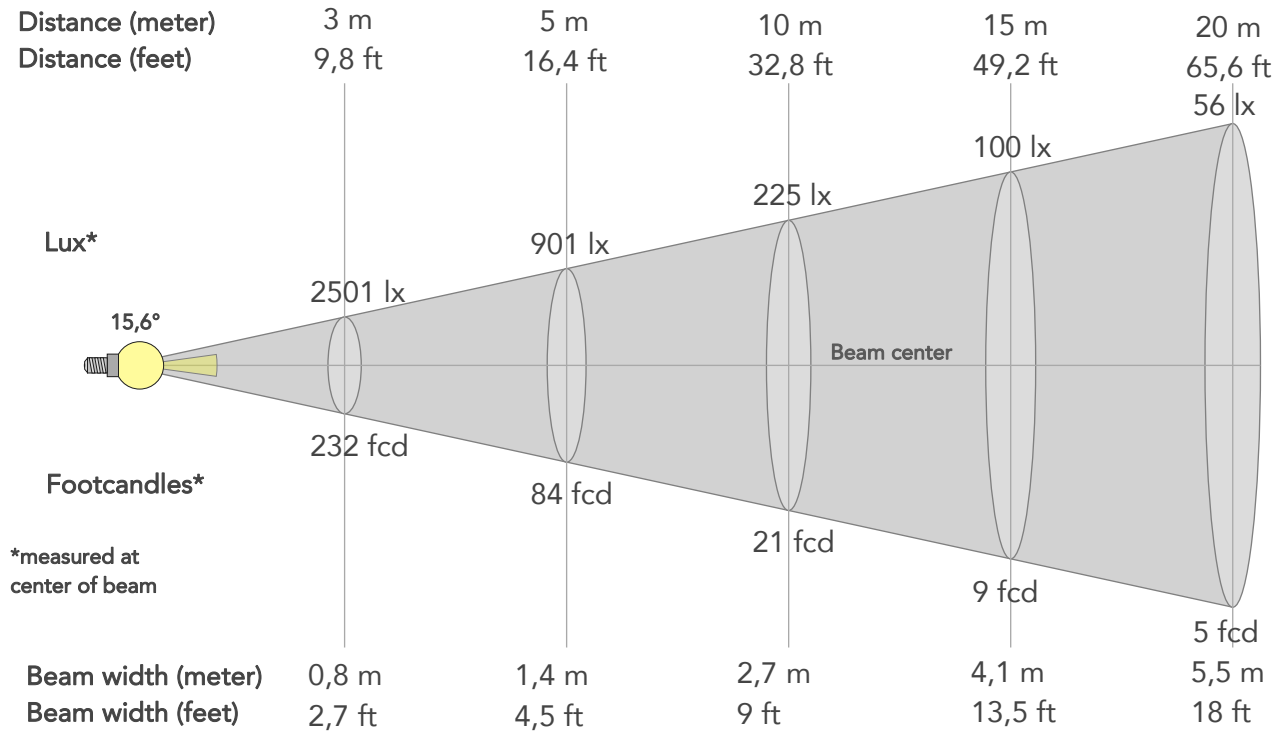
**Spectra**



# BEAM DETAILS



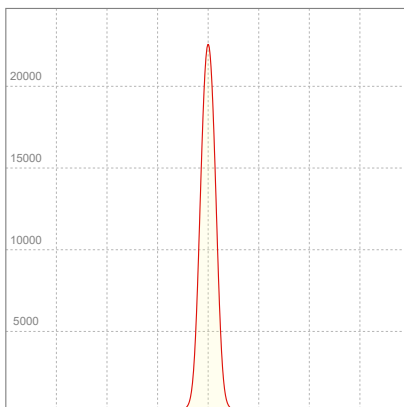
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,6°	26,8°	34,9°	99,9%	98,8%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	22513lx	5628lx	2501lx	1407lx	901lx	400lx	225lx	100lx	56lx	36lx	25lx	14lx	9lx
Footcand.	2092fcd	523fcd	232fcd	131fcd	84fcd	37fcd	21fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2,1m	2,7m	4,1m	5,5m	6,9m	8,2m	11m	13,7m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	9ft	13,5ft	18ft	22,5ft	27ft	36ft	45ft

## LINEAR DISTRIBUTION DIAGRAM

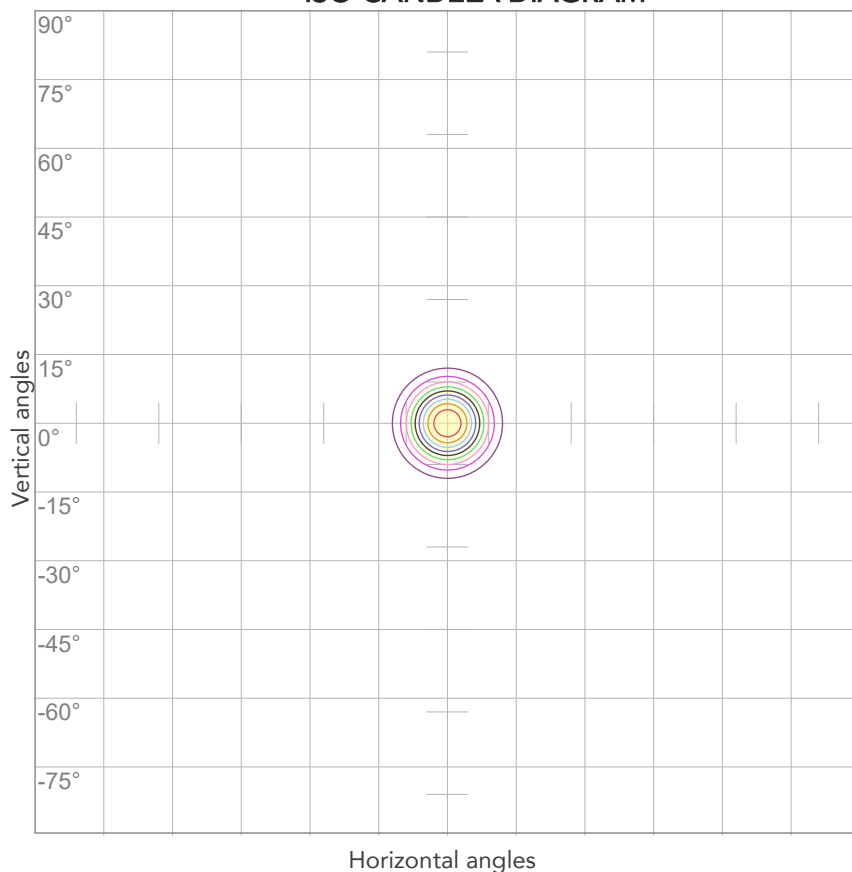


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,211A	40,9W	48lm/W

Power FC
0,86

## ISO CANDELA DIAGRAM



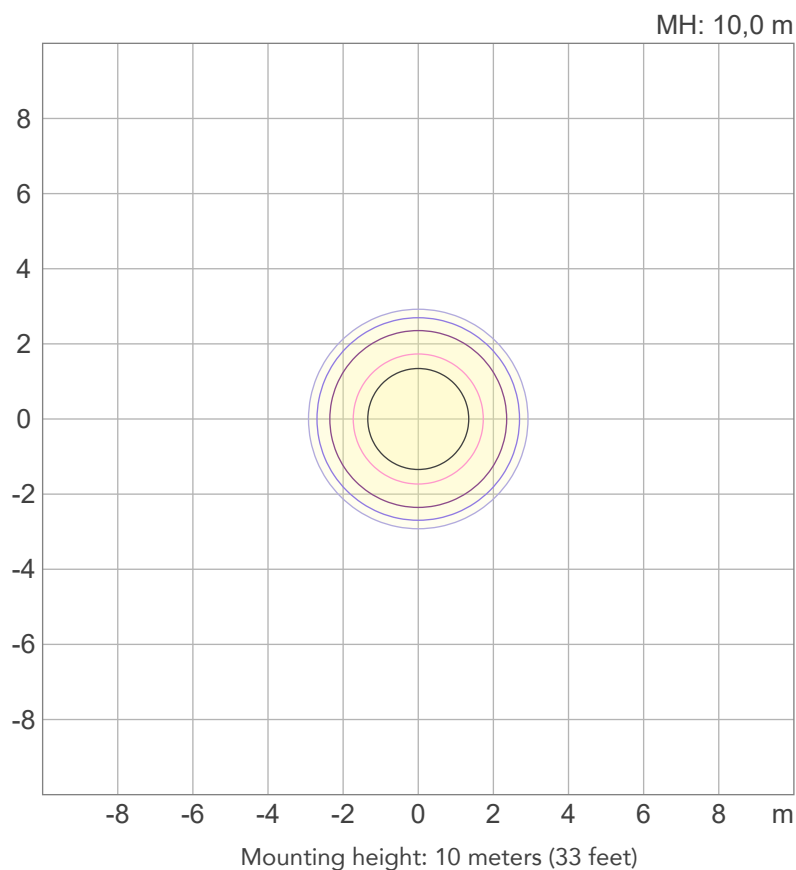
10%	2251 cd
20%	4503 cd
30%	6754 cd
40%	9005 cd
50%	11257 cd
60%	13508 cd
70%	15759 cd
80%	18011 cd

### Conditions:

Number of c-planes: 2

Candela at center: 22513 cd

## ISO LUX DIAGRAM



3%	6,75 lx
5%	11,3 lx
10%	22,5 lx
30%	67,5 lx
50%	113 lx

### Conditions:

Number of c-planes: 2

Lux at center: 225 lx

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



Total lumen output:

2200 lm

Peak candela output:

28461 cd

Light quality:

CRI: 90,5

Color temperature:

2764 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Narrow Lens

Target:

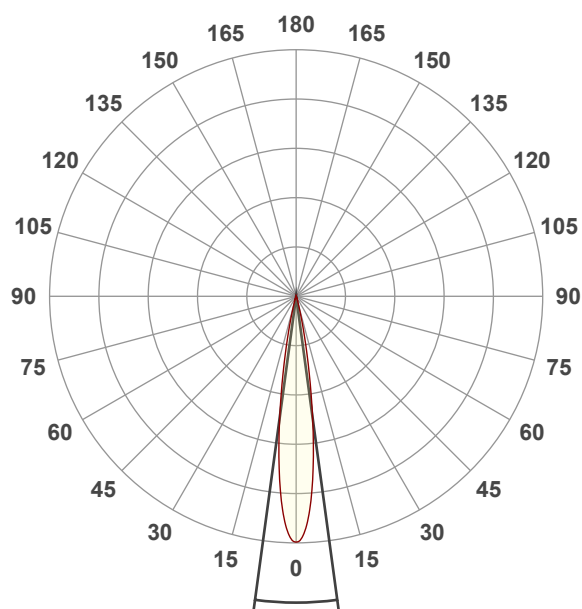
2800K

Operator:

Paolo Carvone

Date and time:

01/08/2023 17:23:17

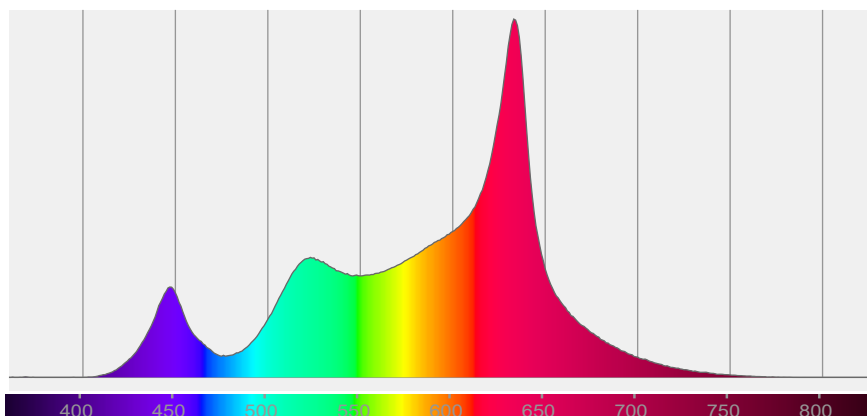


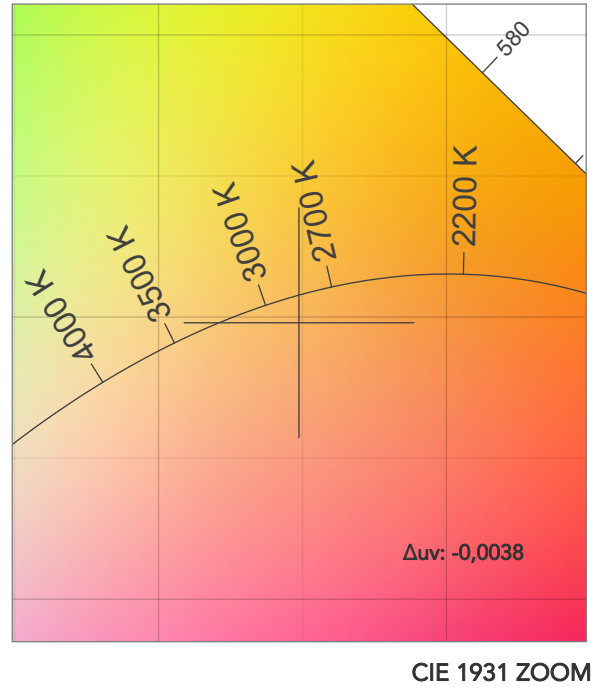
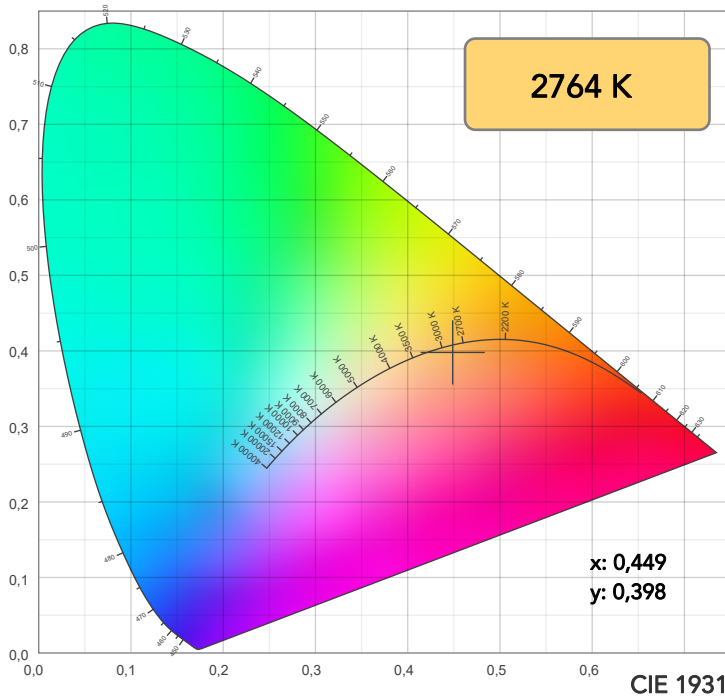
Beam angle 50%: 15,4°

Field angle 10%: 26,4°

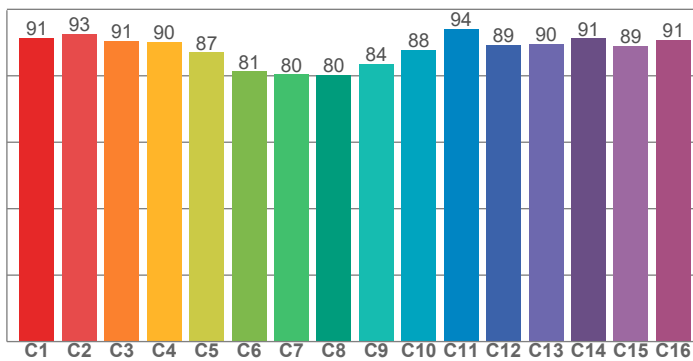
Cut off angle 2.5%: 33,1°

**Spectra**

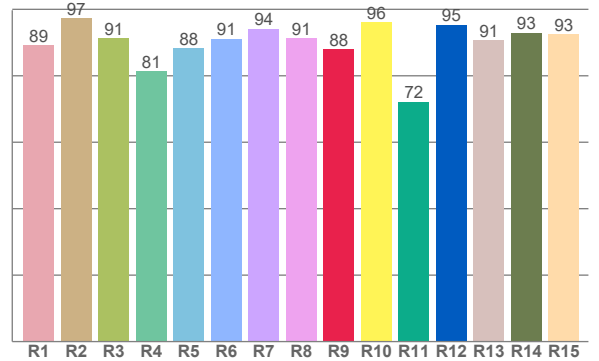




TM30: 88,8



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
89,1	97,3	91,2	81,3	88,3	91,2	94,2	91,2	88,0	96,2	72,2	95,3	90,8	92,9	92,5

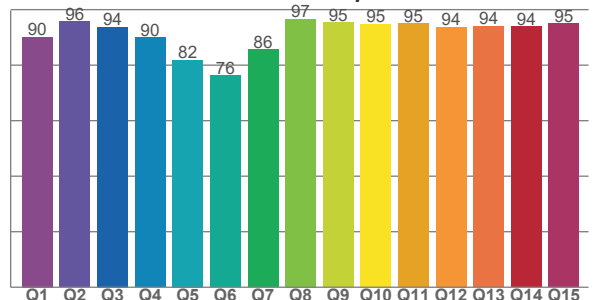
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,5	92,6	90,5	90,1	87,1	81,4	80,5	80,2	83,6	87,9	94,2	89,4	89,6	91,3	89,0	90,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,1	95,7	93,8	90,0	81,9	76,3	85,7	96,6	95,4	94,8	95,0	93,8	94,0	93,9	94,9

CQS: 89,3



## COLOR PARAMETERS

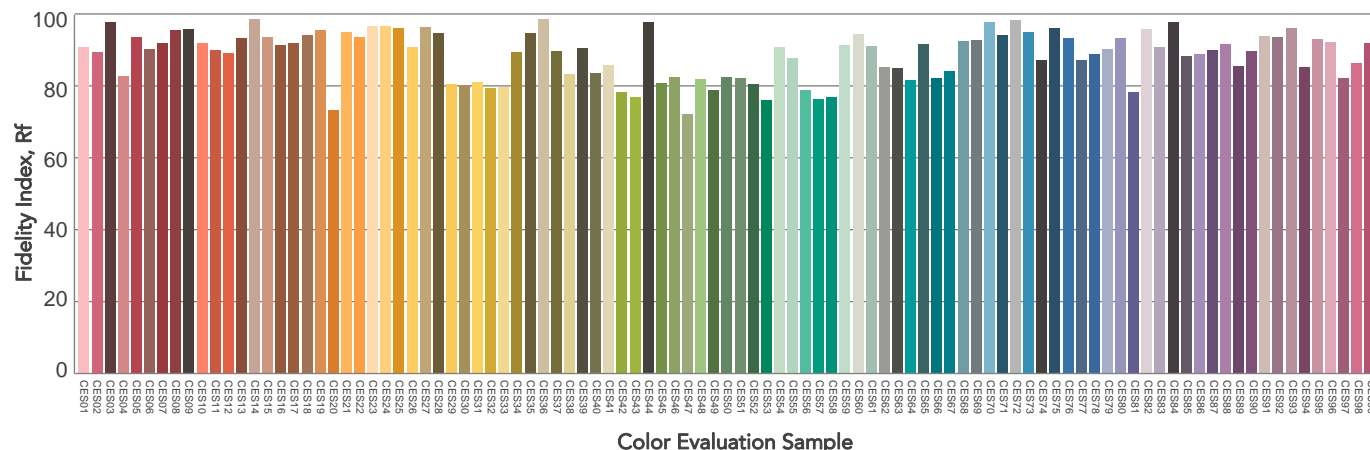
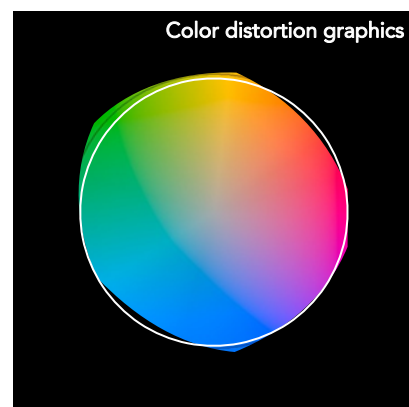
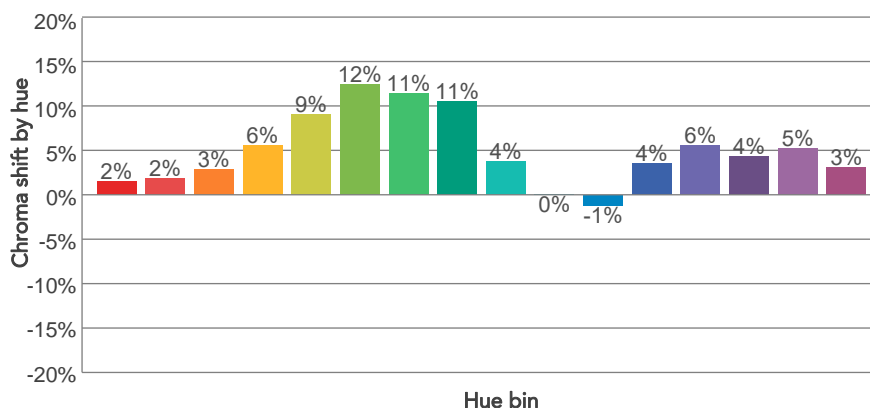
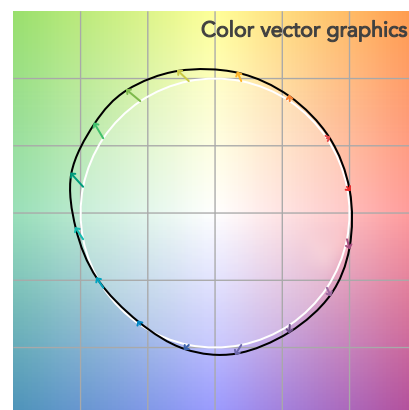
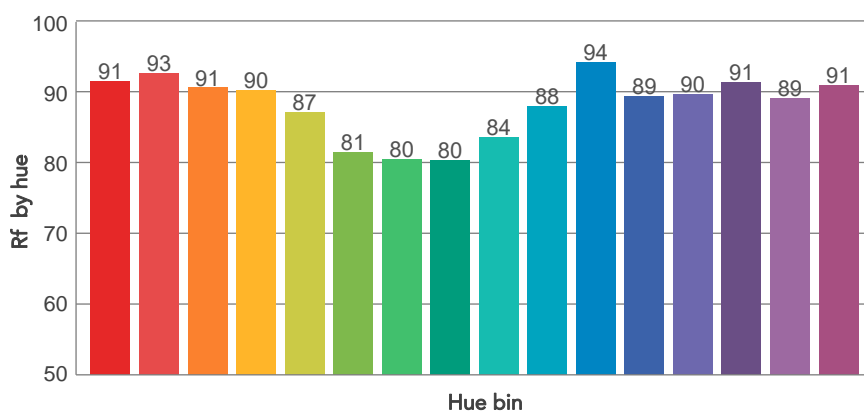
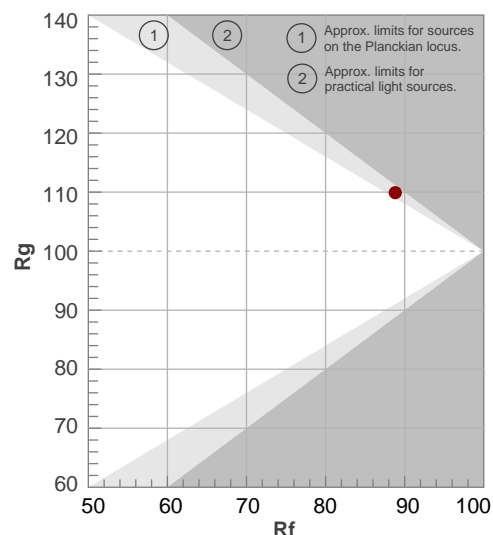
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2764 K	90,5	88,0	88,8	109,9	89,3	72	0,449	0,398	-0,0038

# TM30 DETAILS

**Rf 88,8**  
Fidelity index Rf

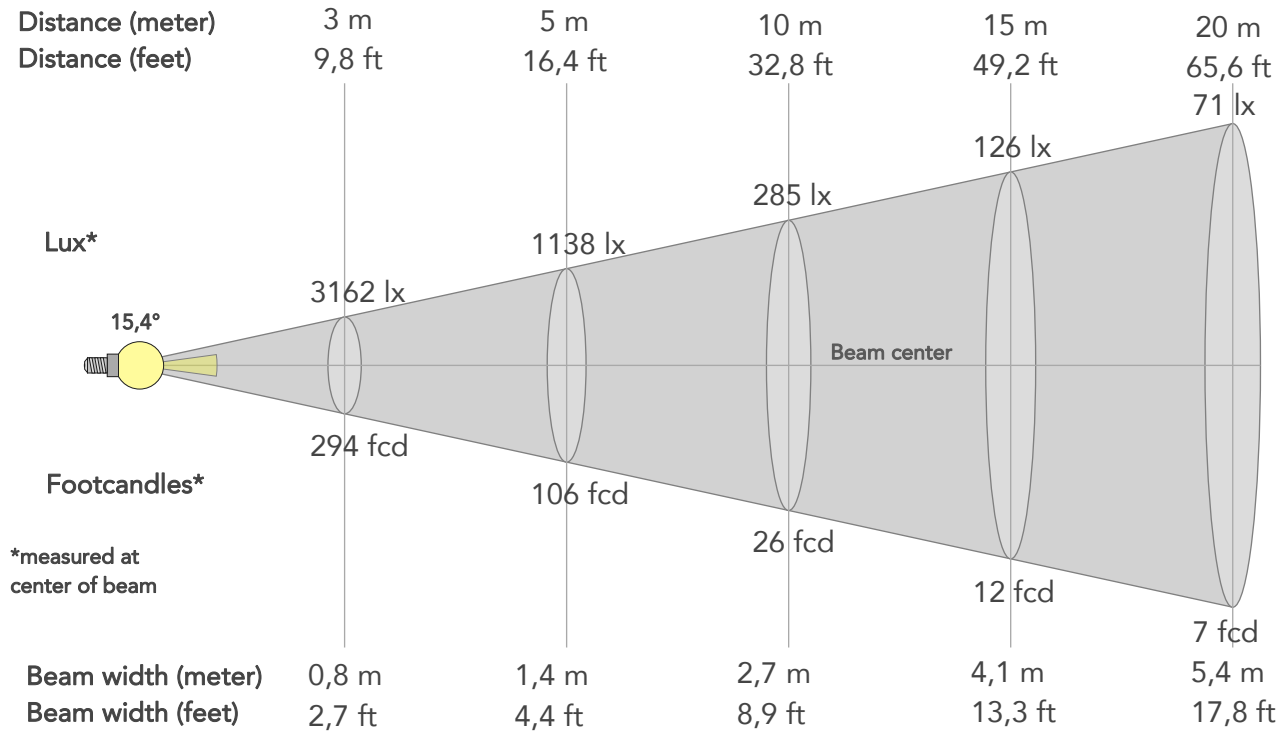
**Rg 109,9**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	2%	-3%
2	93	2%	0%
3	91	3%	2%
4	90	6%	4%
5	87	9%	6%
6	81	12%	4%
7	80	11%	-5%
8	80	11%	-8%
9	84	4%	-9%
10	88	0%	-8%
11	94	-1%	-3%
12	89	4%	-2%
13	90	6%	-5%
14	91	4%	-3%
15	89	5%	-3%
16	91	3%	-6%



## BEAM DETAILS

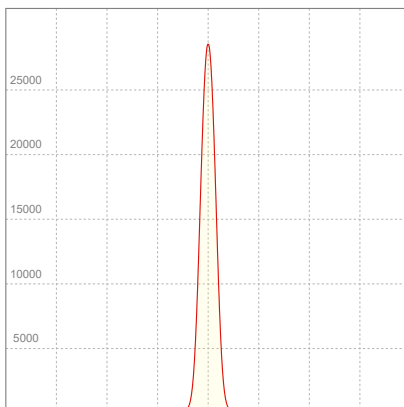
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	26,4°	33,1°	100,0%	100,0%



### 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	28461lx	7115lx	3162lx	1779lx	1138lx	506lx	285lx	126lx	71lx	46lx	32lx	18lx	11lx
Footcand.	2644fcd	661fcd	294fcd	165fcd	106fcd	47fcd	26fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,7ft	3,5ft	4,4ft	6,7ft	8,9ft	13,3ft	17,8ft	22,2ft	26,7ft	35,5ft	44,4ft

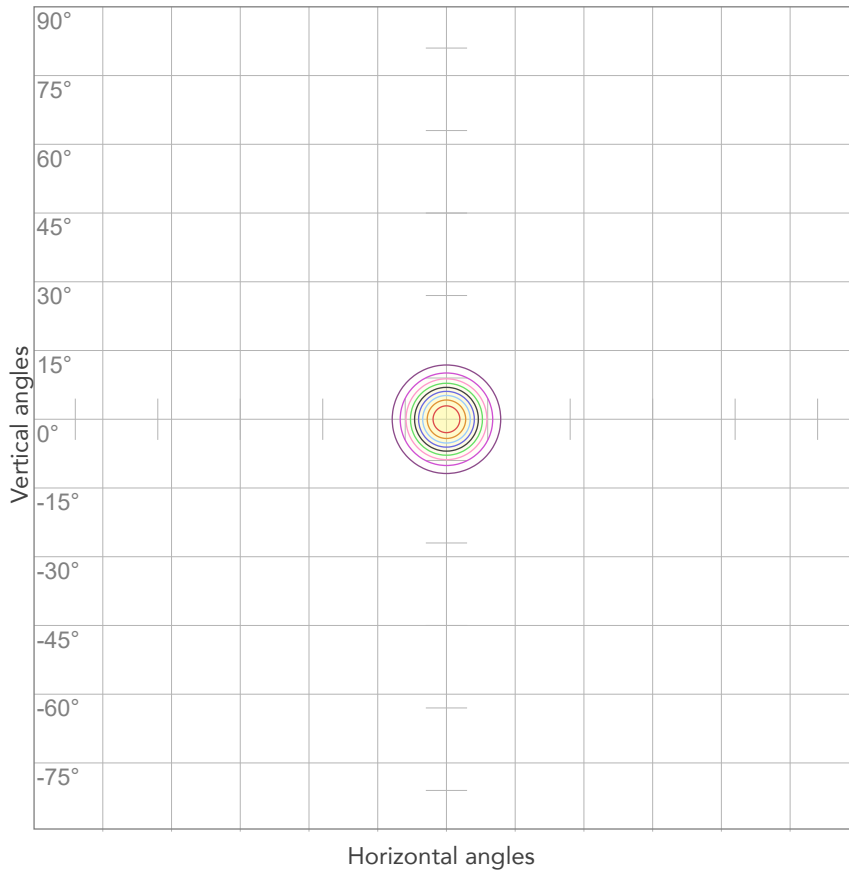
### LINEAR DISTRIBUTION DIAGRAM



### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,265A	53,1W	41lm/W

## ISO CANDELA DIAGRAM



10%	2846 cd
20%	5692 cd
30%	8538 cd
40%	11384 cd
50%	14231 cd
60%	17077 cd
70%	19923 cd
80%	22769 cd

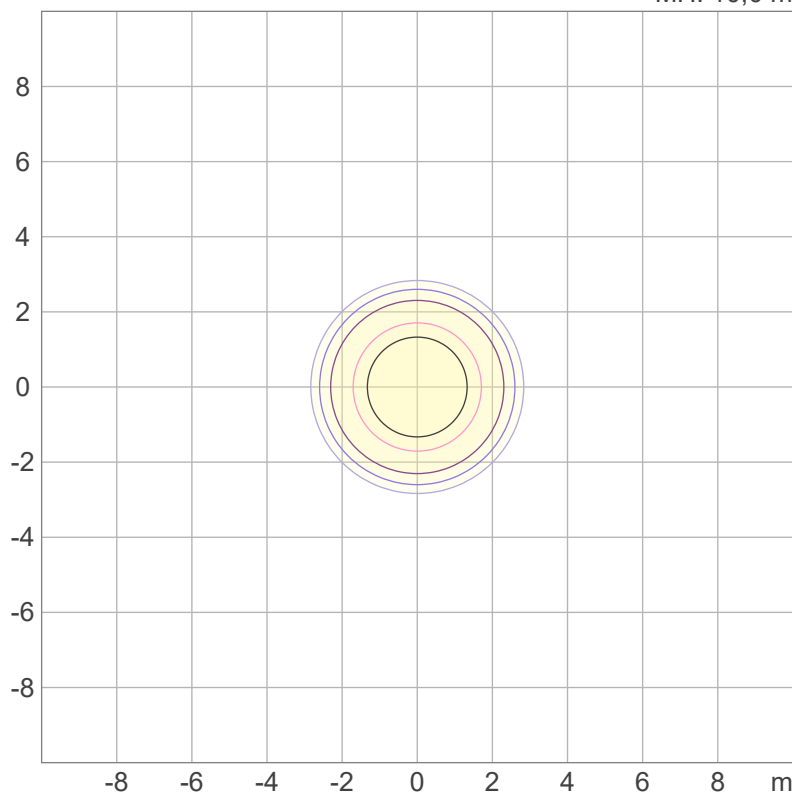
### Conditions:

Number of c-planes: 2

Candela at center: 28461 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	8,54 lx
5%	14,2 lx
10%	28,5 lx
30%	85,4 lx
50%	142 lx

### Conditions:

Number of c-planes: 2

Lux at center: 285 lx

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





Total lumen output:

2334 lm

Peak candela output:

28774 cd

Light quality:

CRI: 93,7

Color temperature:

3194 K

PRODUCT NAME:

ECLPARIPMFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow Lens

Target:

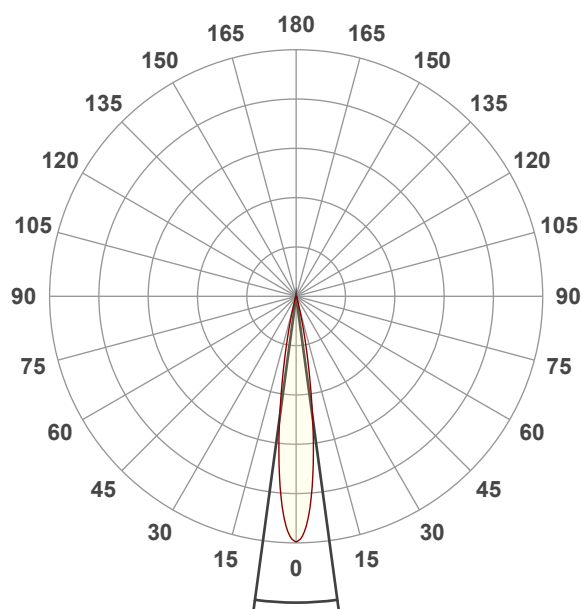
3200K

Operator:

Paolo Carvone

Date and time:

01/08/2023 17:25:32

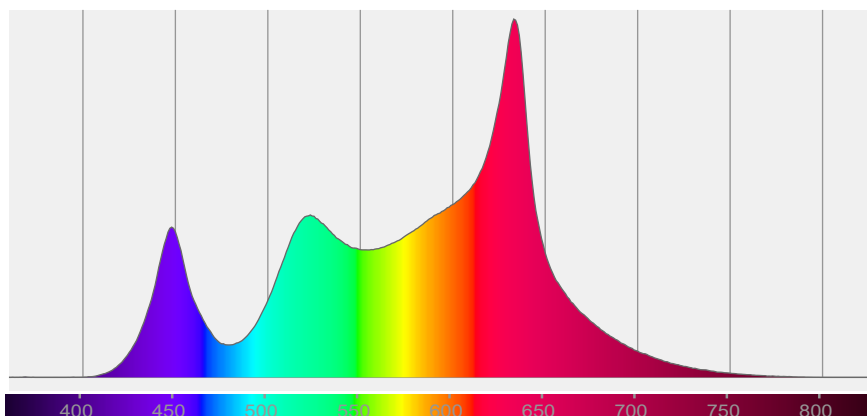


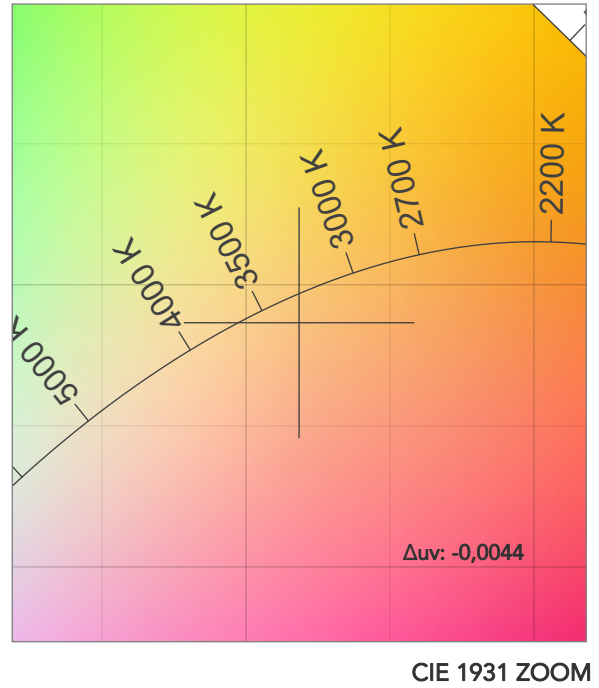
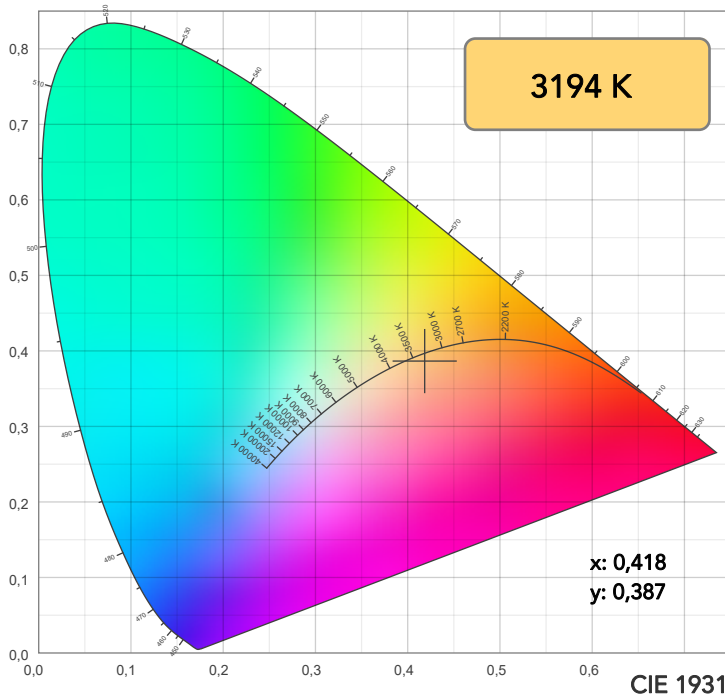
Beam angle 50%: 15,5°

Field angle 10%: 26,5°

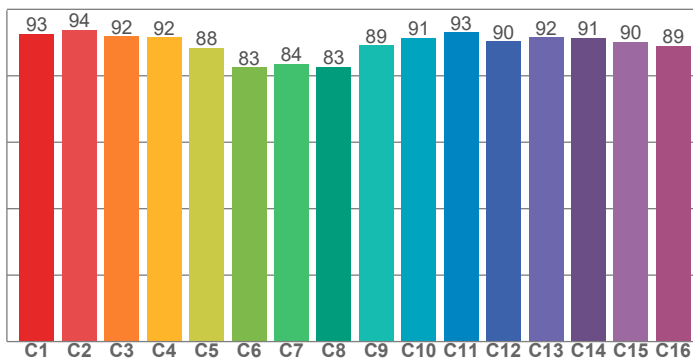
Cut off angle 2.5%: 34,2°

Spectra

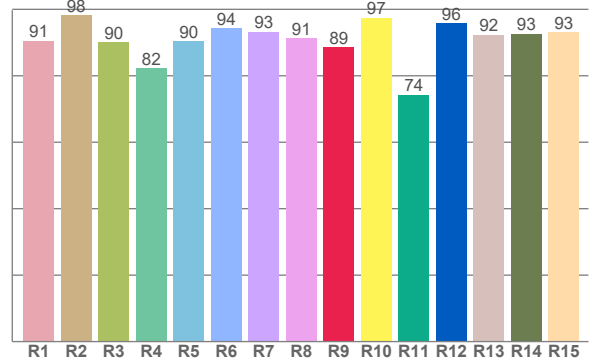




TM30: 90,1



CRI: 91,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
90,5	98,1	90,1	82,3	90,4	94,2	93,2	91,4	88,6	97,5	74,3	95,9	92,4	92,6	93,0

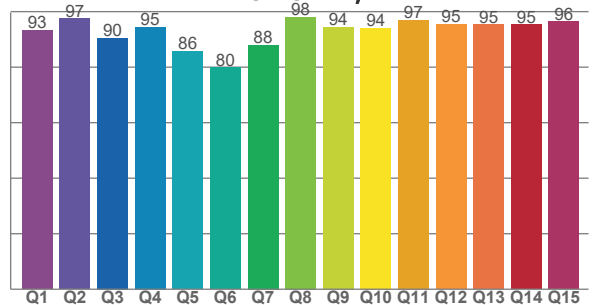
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,6	93,8	91,9	91,6	88,5	82,5	83,6	82,7	89,2	91,5	93,1	90,3	91,5	91,4	90,2	88,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,3	97,5	90,5	94,5	85,7	79,9	88,0	98,1	94,4	94,1	96,9	95,4	95,3	95,3	96,4

CQS: 91,2



## COLOR PARAMETERS

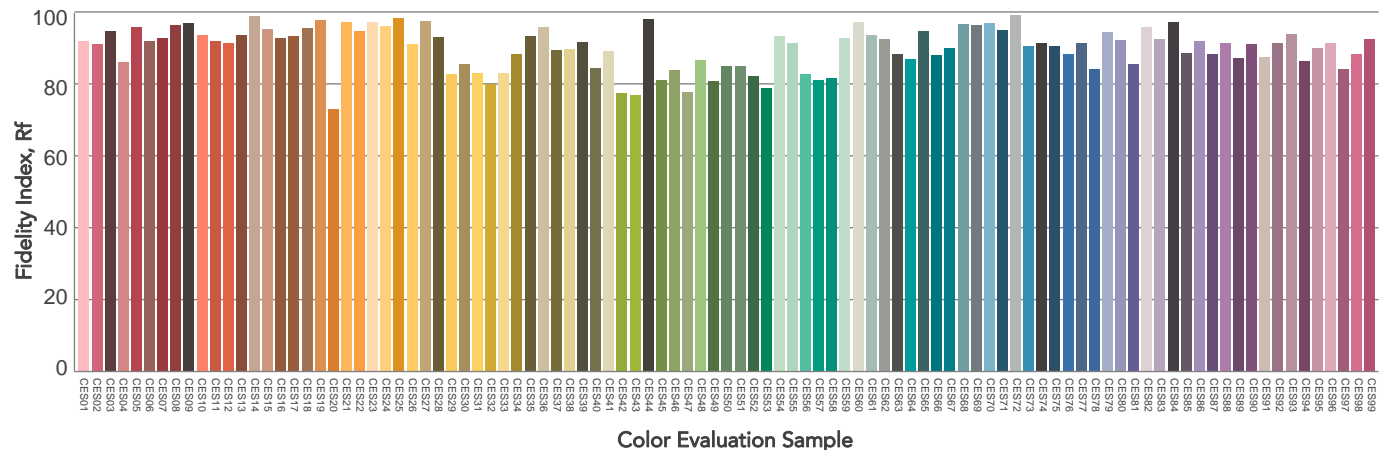
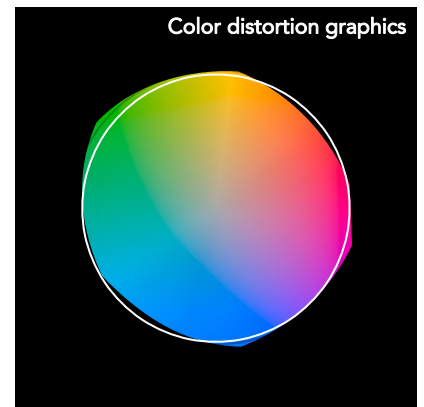
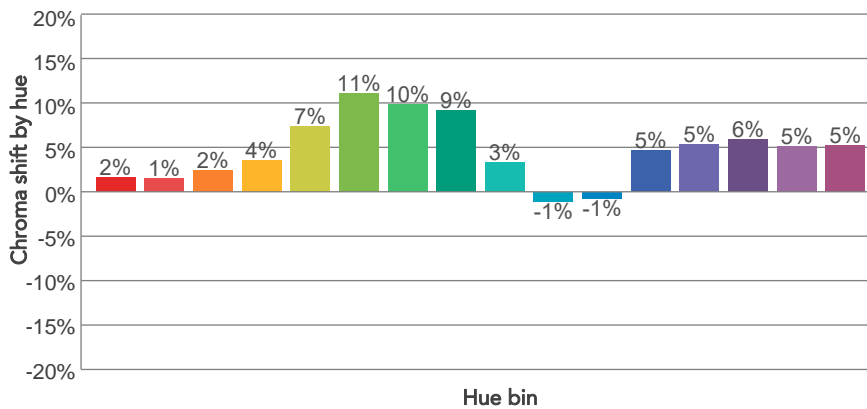
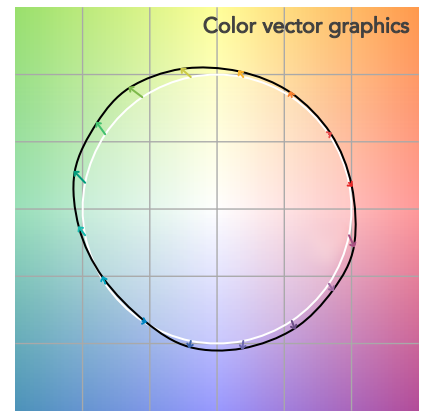
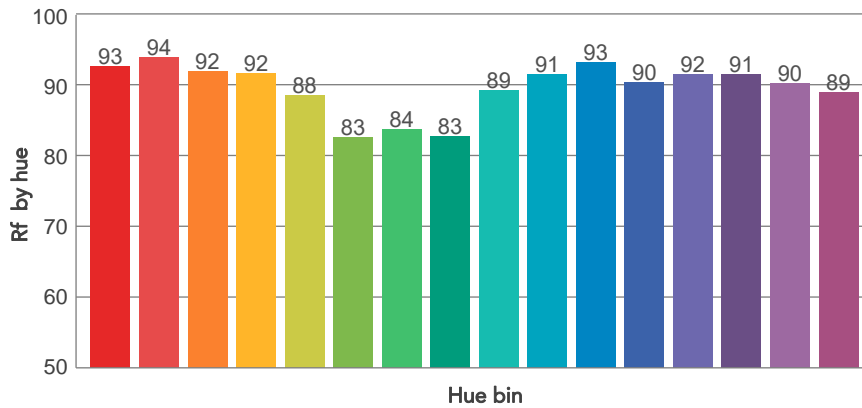
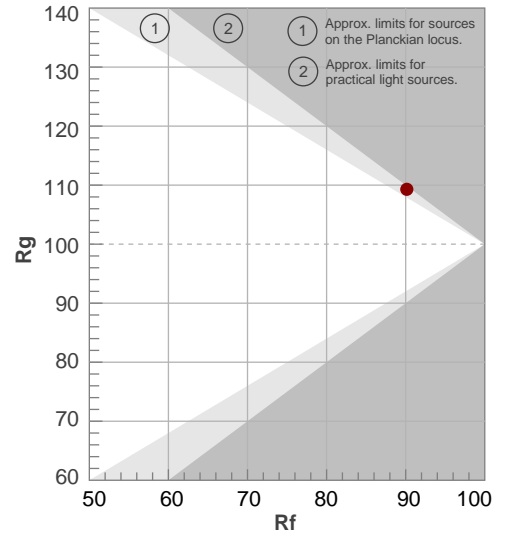
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3194 K	93,7	88,6	90,1	109,3	91,2	77	0,418	0,387	-0,0044

# TM30 DETAILS

**Rf 90,1**  
Fidelity index Rf

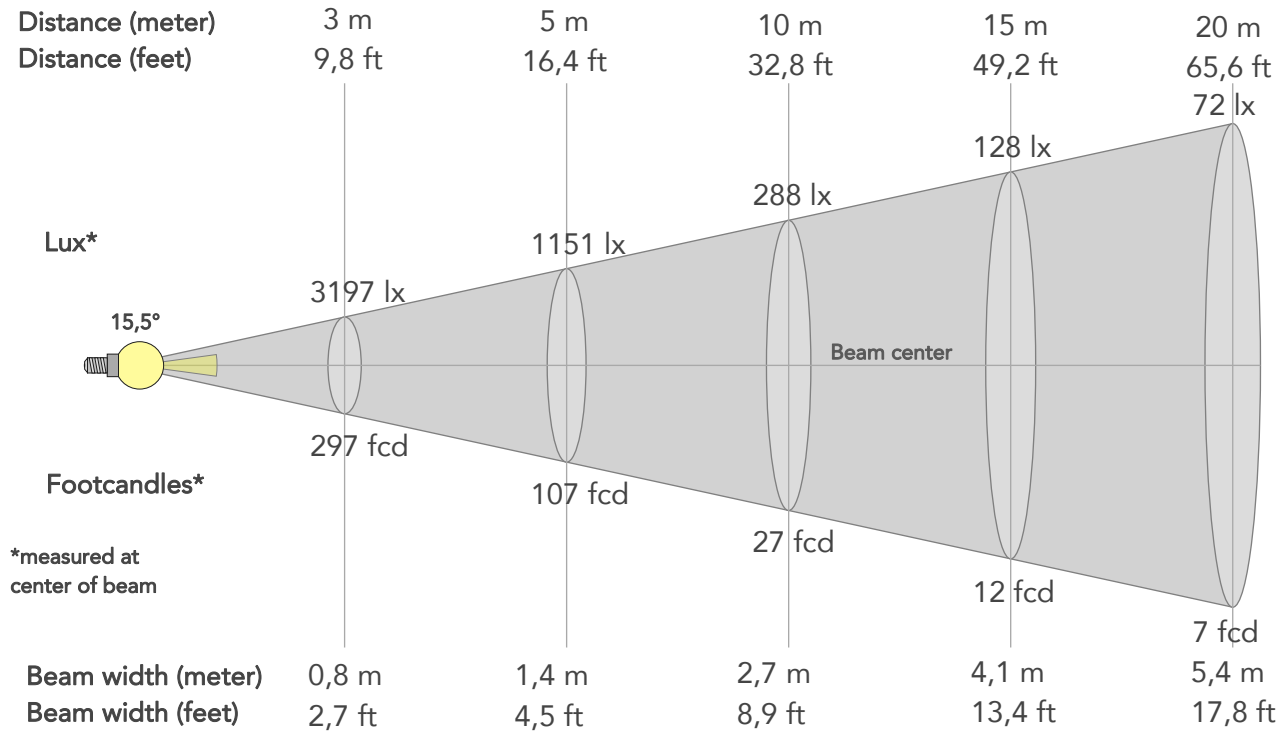
**Rg 109,3**  
Gammut index

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



## BEAM DETAILS

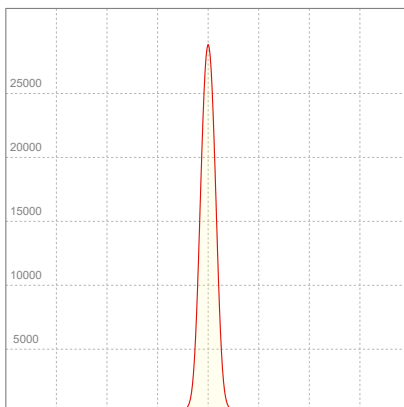
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,5°	26,5°	34,2°	100,0%	99,8%



### 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	28774lx	7193lx	3197lx	1798lx	1151lx	512lx	288lx	128lx	72lx	46lx	32lx	18lx	12lx
Footcand.	2673fcd	668fcd	297fcd	167fcd	107fcd	48fcd	27fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,9m	13,6m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	8,9ft	13,4ft	17,8ft	22,3ft	26,7ft	35,6ft	44,5ft

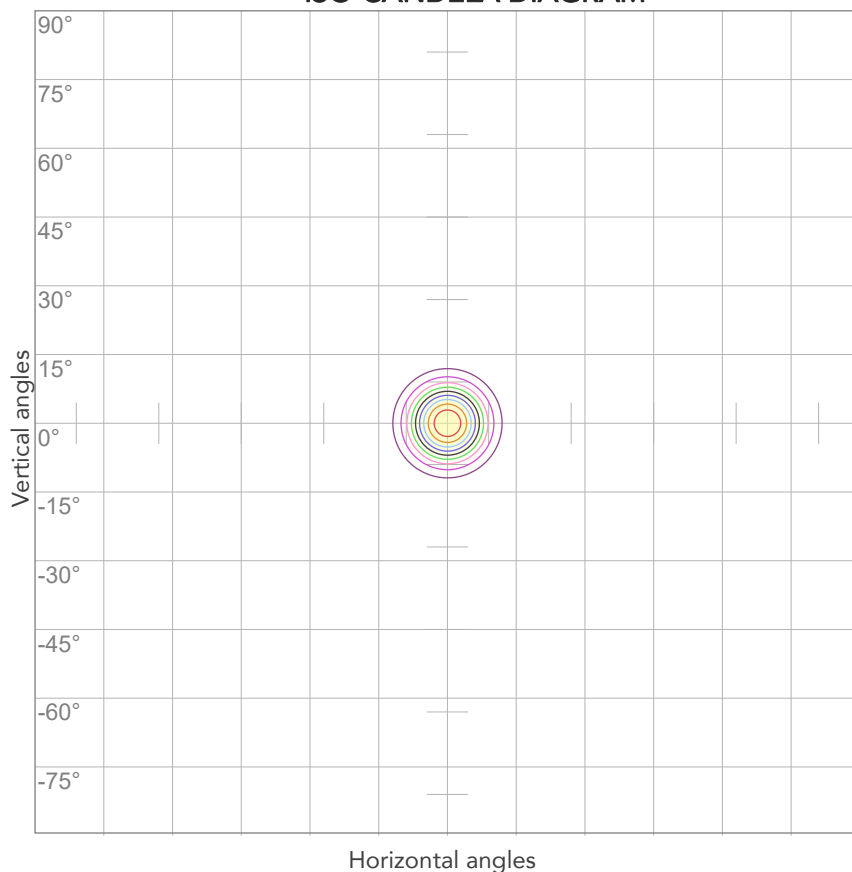
### LINEAR DISTRIBUTION DIAGRAM



### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,270A	54,3W	43lm/W

## ISO CANDELA DIAGRAM



10%	2877 cd
20%	5755 cd
30%	8632 cd
40%	11509 cd
50%	14387 cd
60%	17264 cd
70%	20142 cd
80%	23019 cd

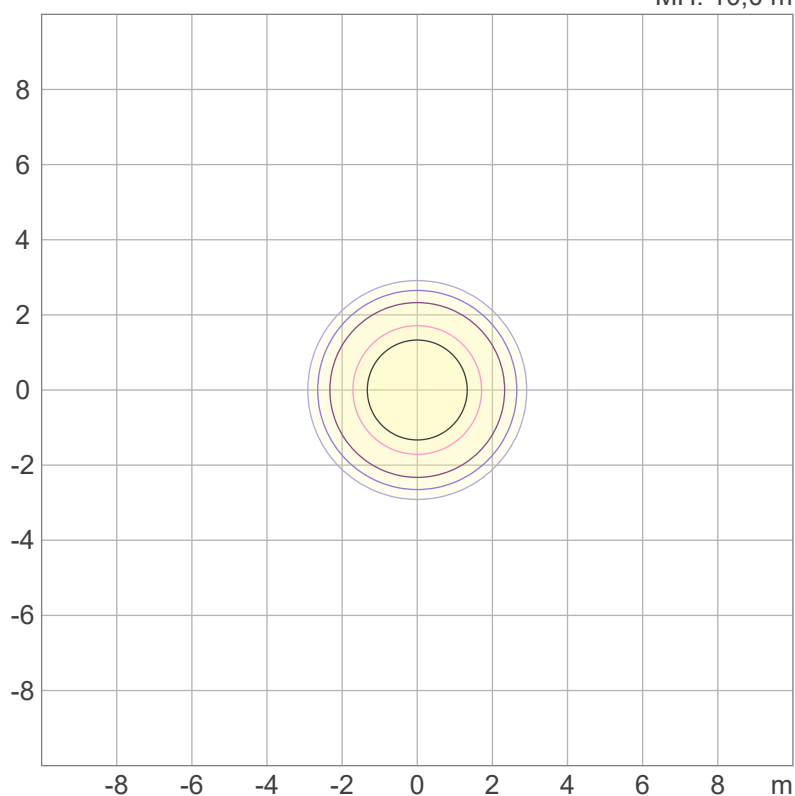
### Conditions:

Number of c-planes: 2

Candela at center: 28774 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	8,63 lx
5%	14,4 lx
10%	28,8 lx
30%	86,3 lx
50%	144 lx

### Conditions:

Number of c-planes: 2

Lux at center: 288 lx

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



Total lumen output:

2324 lm

Peak candela output:

29467 cd

Light quality:

CRI: 93,7

Color temperature:

4032 K

PRODUCT NAME:

ECLPARIPMFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow Lens

Target:

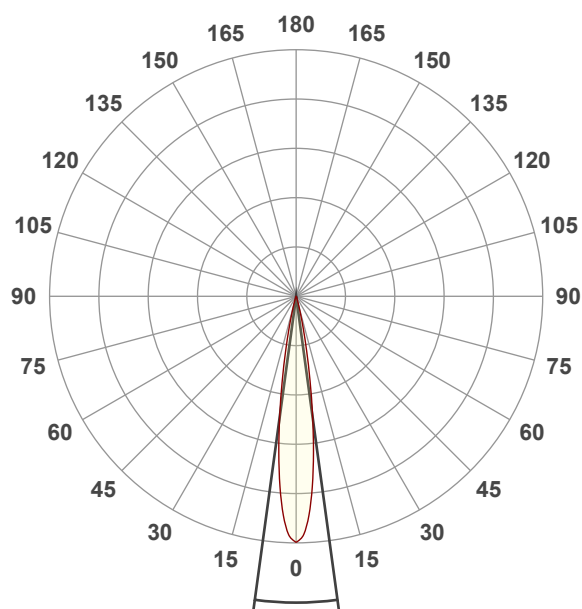
4000K

Operator:

Paolo Carvone

Date and time:

01/08/2023 17:33:19

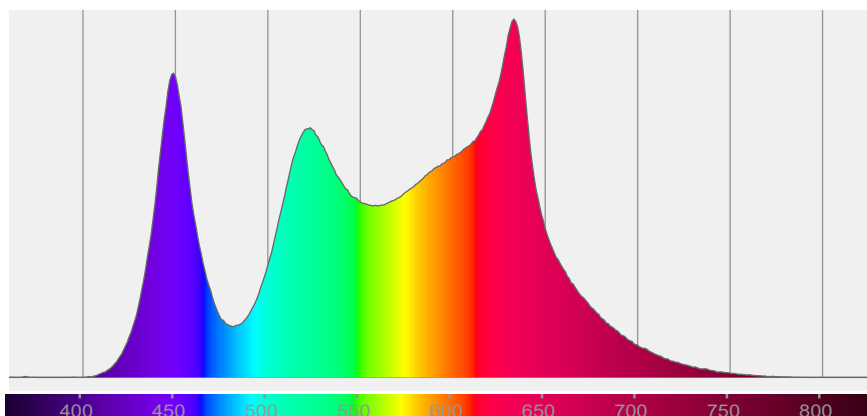


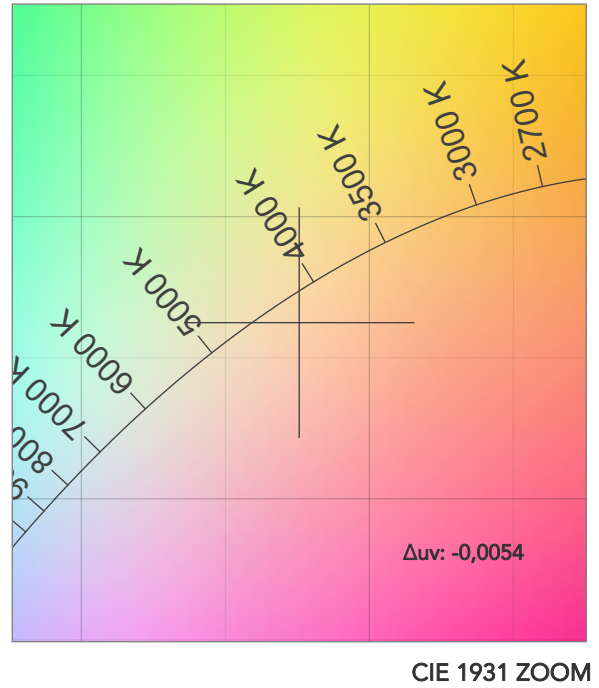
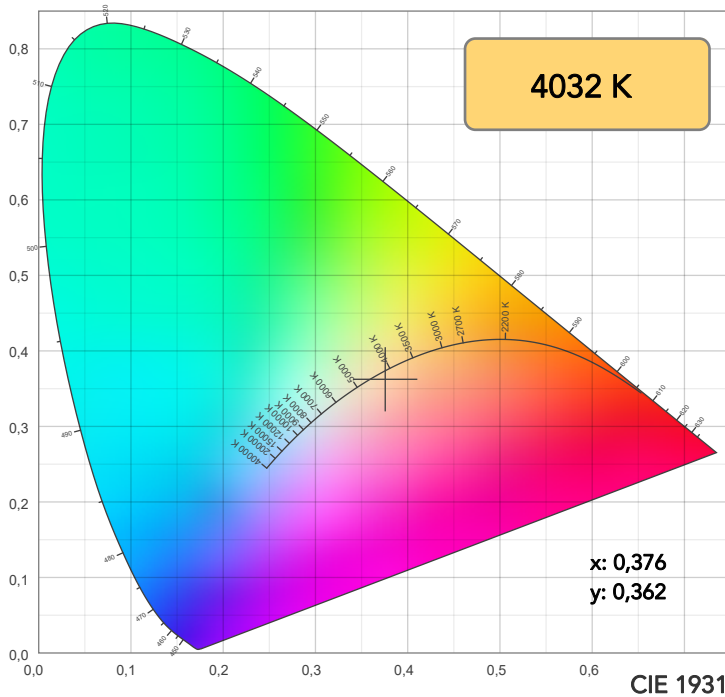
Beam angle 50%: 15,5°

Field angle 10%: 26,7°

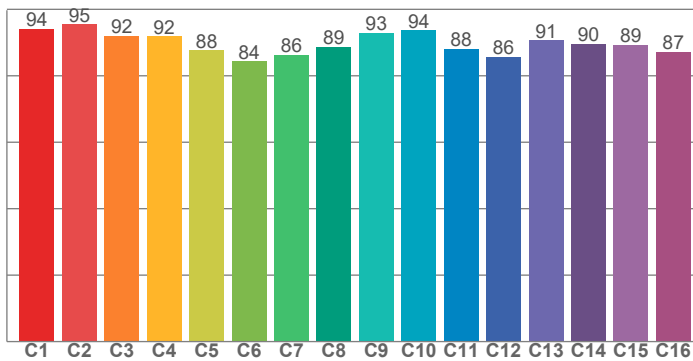
Cut off angle 2.5%: 33,6°

Spectra

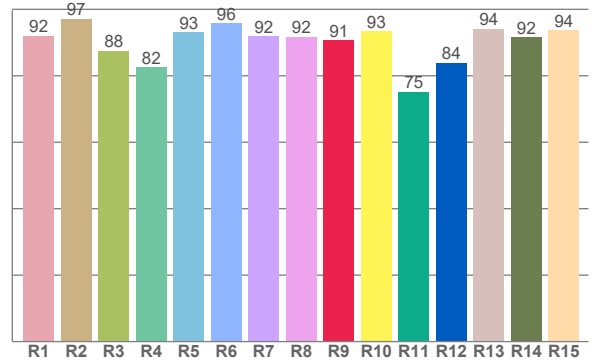




TM30: 90,2



CRI: 91,5 (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
92,1	97,1	87,5	82,5	93,0	95,8	91,9	91,8	90,8	93,4	75,2	83,9	94,2	91,5	93,8

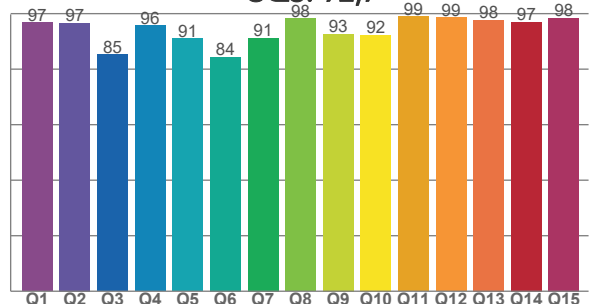
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	95,4	92,1	91,9	87,7	84,4	86,3	88,7	92,9	93,6	88,0	85,7	90,6	89,6	89,3	87,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,8	96,6	85,3	95,7	91,0	84,4	91,2	98,2	92,7	92,4	99,0	98,6	97,7	97,1	98,4

CQS: 92,7



## COLOR PARAMETERS

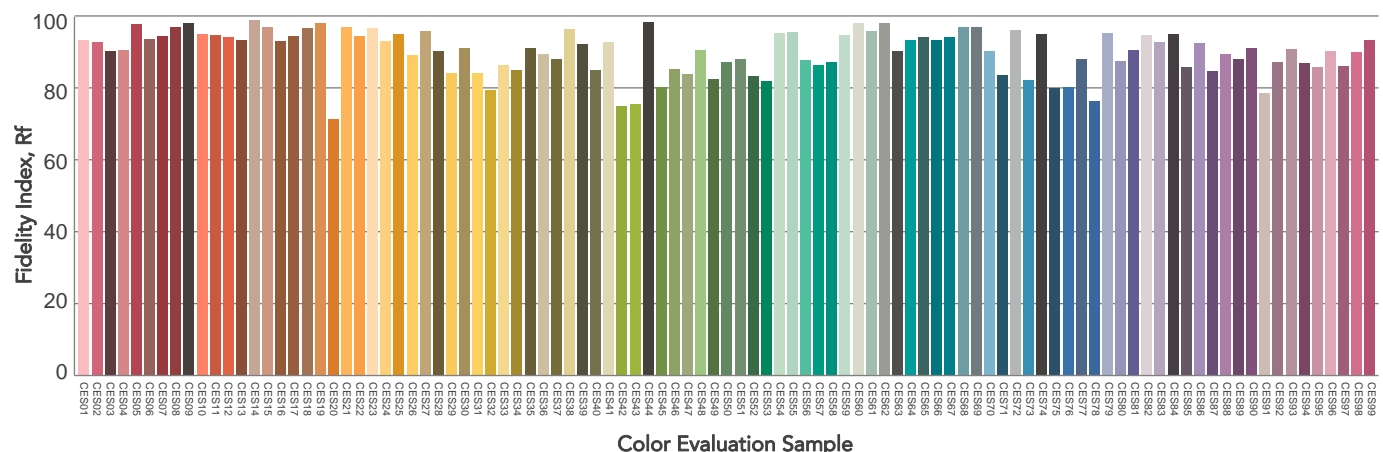
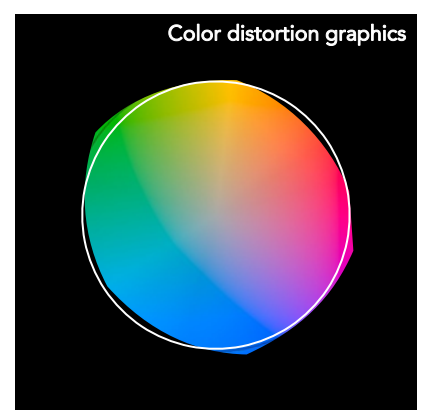
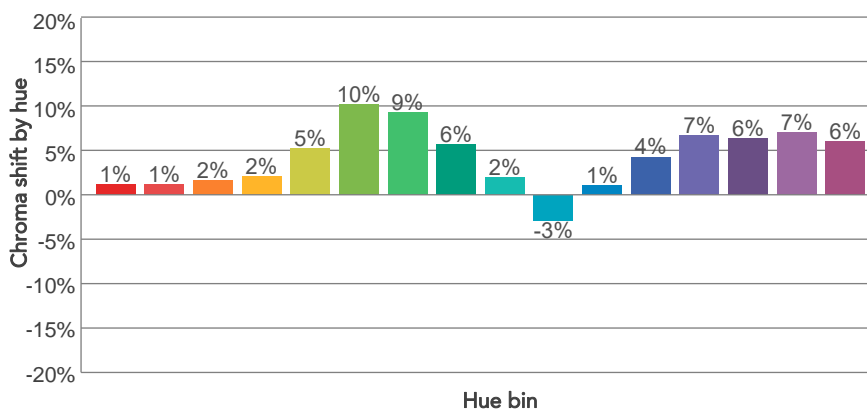
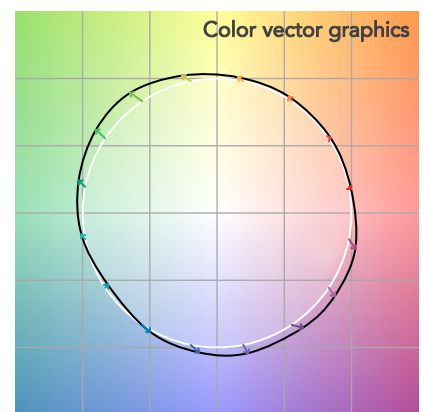
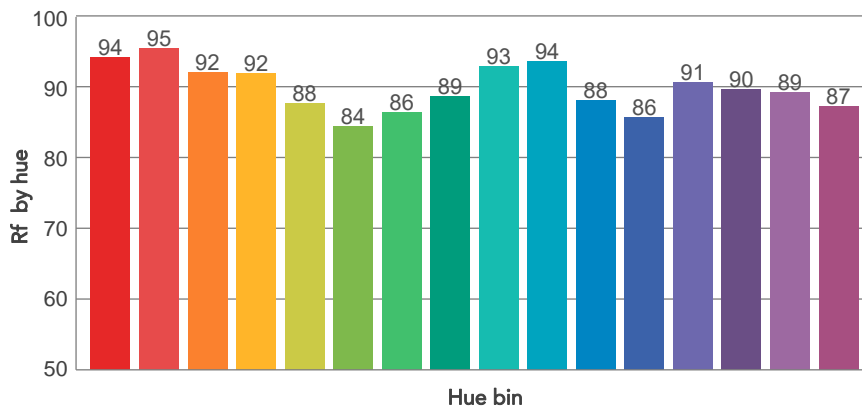
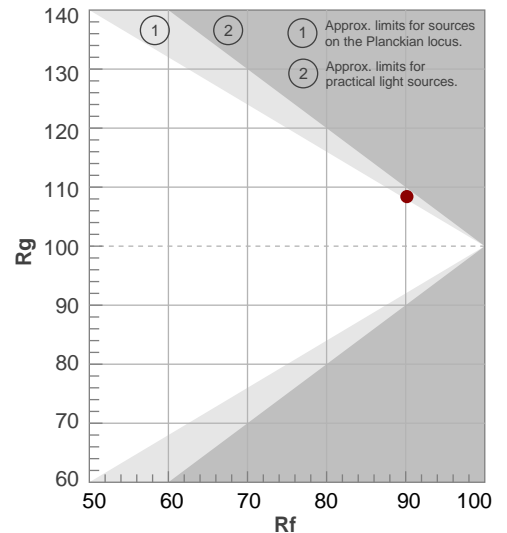
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
4032 K	93,7	90,8	90,2	108,4	92,7	80	0,376	0,362	-0,0054

# TM30 DETAILS

**Rf 90,2**  
Fidelity index Rf

**Rg 108,4**  
Gammut index

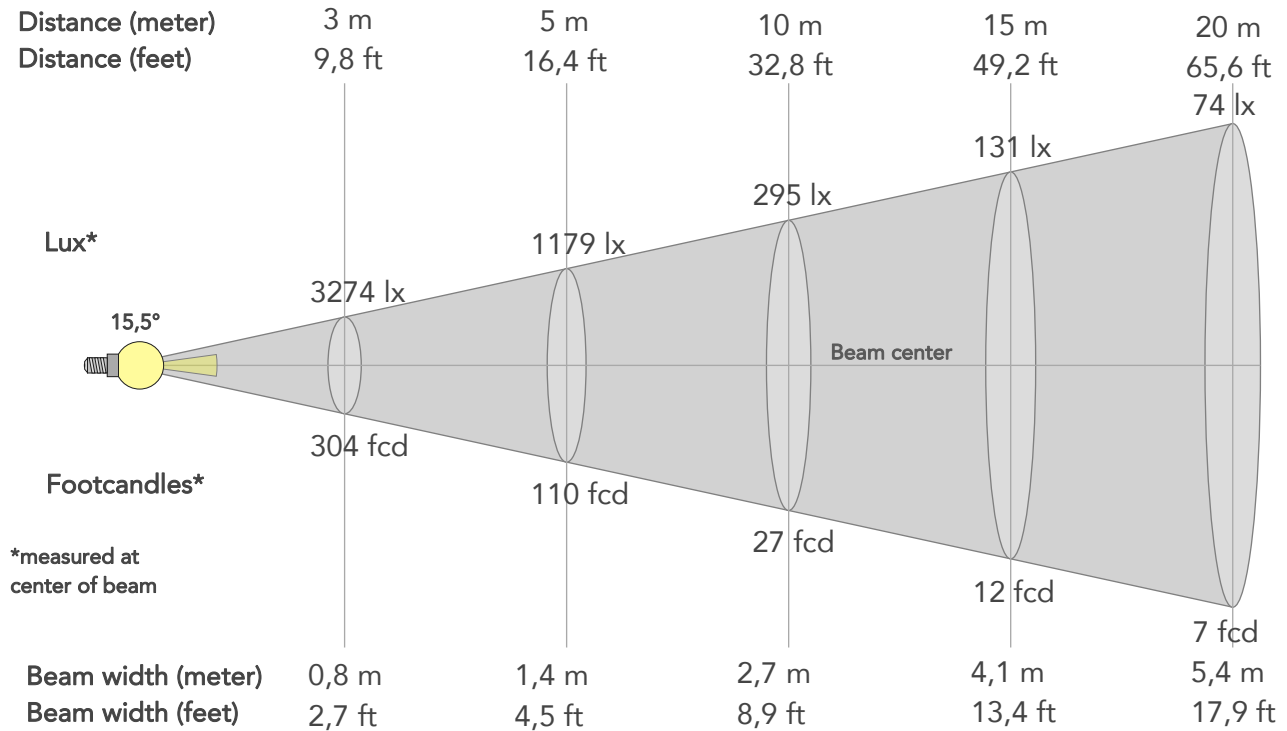
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-2%
2	95	1%	0%
3	92	2%	4%
4	92	2%	4%
5	88	5%	6%
6	84	10%	4%
7	86	9%	-1%
8	89	6%	-3%
9	93	2%	-4%
10	94	-3%	-1%
11	88	1%	8%
12	86	4%	7%
13	91	7%	2%
14	90	6%	6%
15	89	7%	-3%
16	87	6%	-6%





## BEAM DETAILS

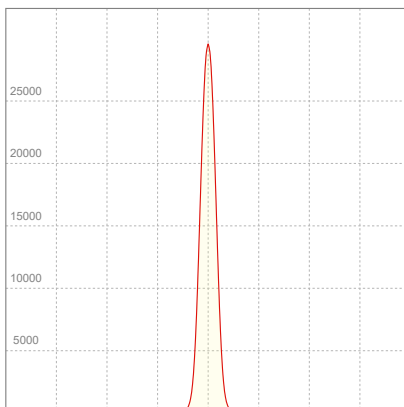
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,5°	26,7°	33,6°	100,0%	100,0%



### 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	29467lx	7367lx	3274lx	1842lx	1179lx	524lx	295lx	131lx	74lx	47lx	33lx	18lx	12lx
Footcand.	2738fcd	684fcd	304fcd	171fcd	110fcd	49fcd	27fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,2m	10,9m	13,6m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	8,9ft	13,4ft	17,9ft	22,3ft	26,8ft	35,7ft	44,7ft

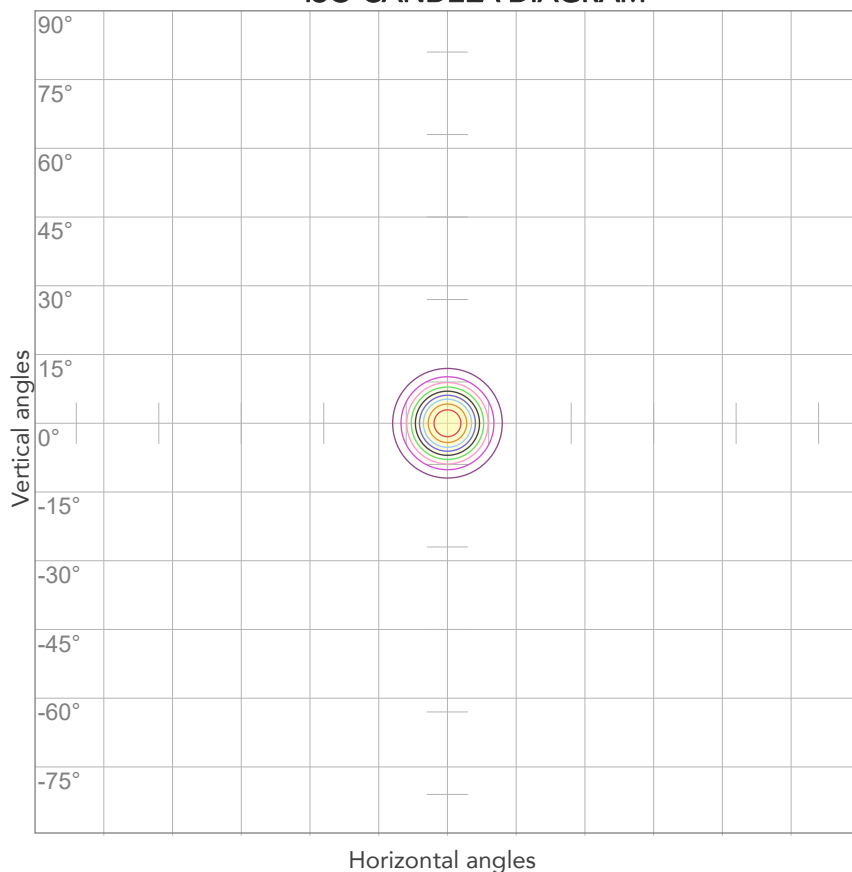
### LINEAR DISTRIBUTION DIAGRAM



### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,286A	57,9W	40lm/W

## ISO CANDELA DIAGRAM



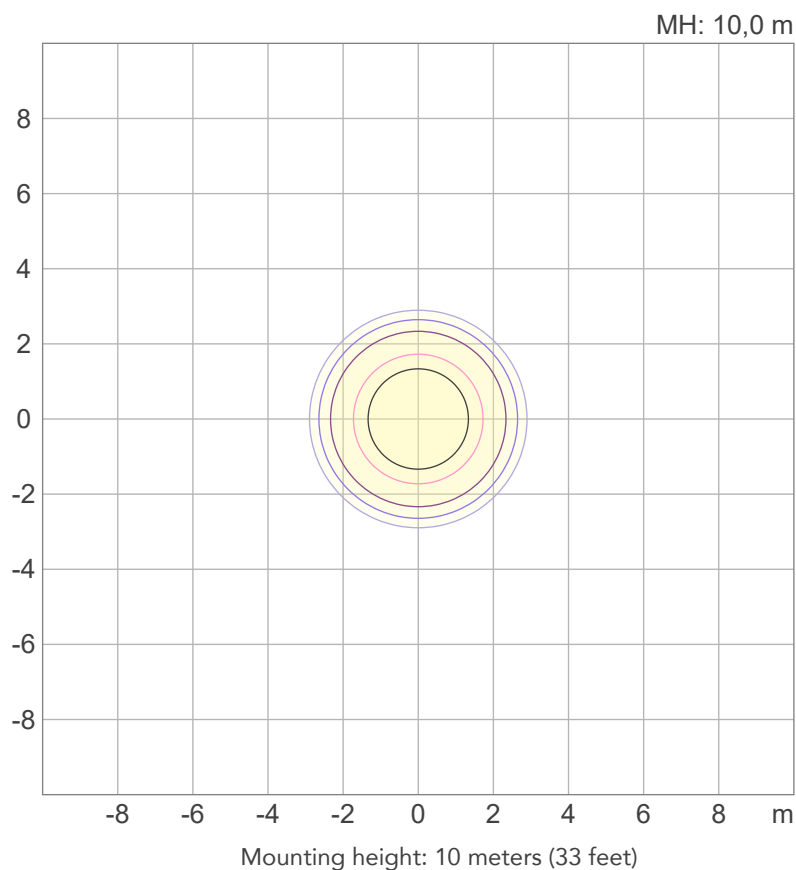
10%	2947 cd
20%	5893 cd
30%	8840 cd
40%	11787 cd
50%	14733 cd
60%	17680 cd
70%	20627 cd
80%	23573 cd

### Conditions:

Number of c-planes: 2

Candela at center: 29467 cd

## ISO LUX DIAGRAM



3%	8,84 lx
5%	14,7 lx
10%	29,5 lx
30%	88,4 lx
50%	147 lx

### Conditions:

Number of c-planes: 2

Lux at center: 295 lx

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



Total lumen output:

2653 lm

Peak candela output:

31112 cd

Light quality:

CRI: 91,0

Color temperature:

5616 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Narrow Lens

Target:

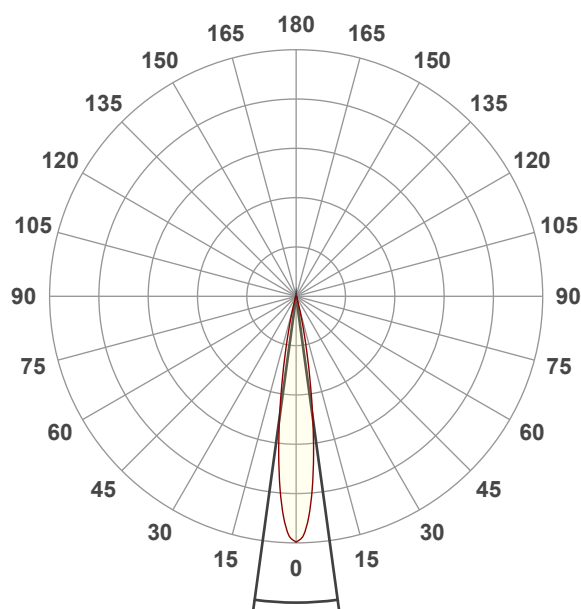
5600K

Operator:

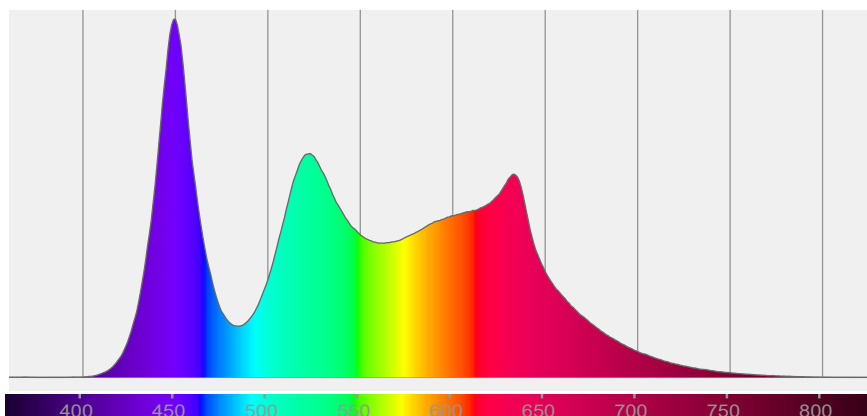
Paolo Carvone

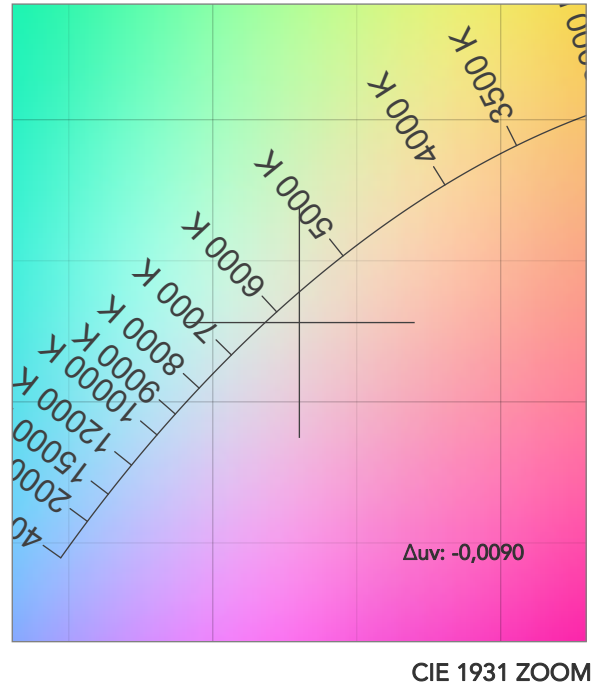
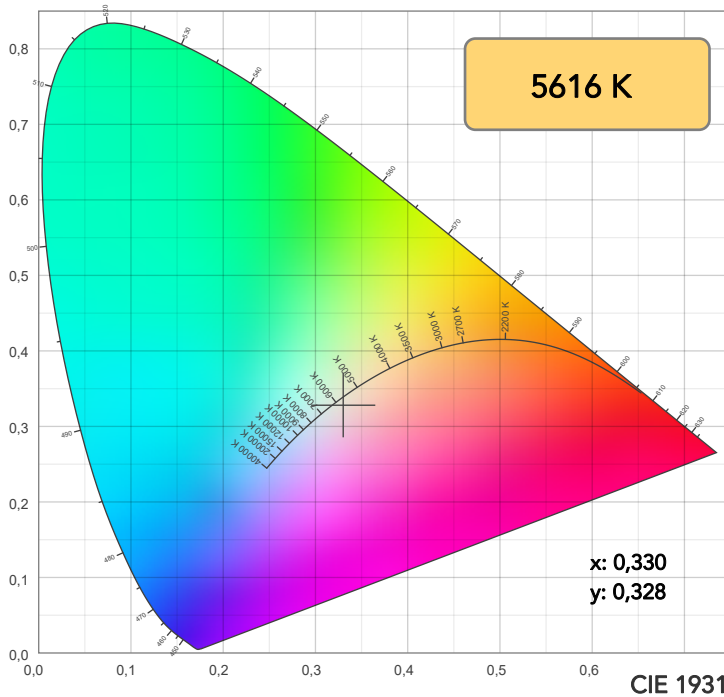
Date and time:

01/08/2023 18:05:30

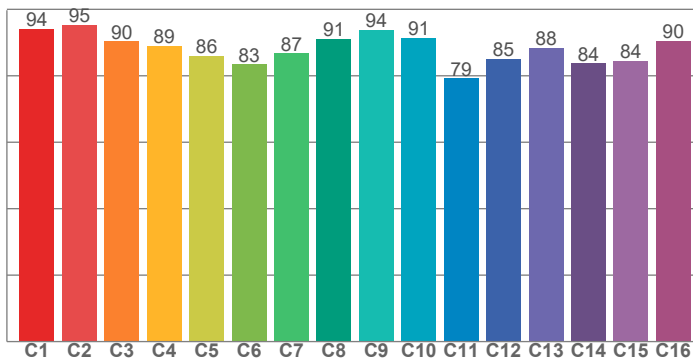


Spectra

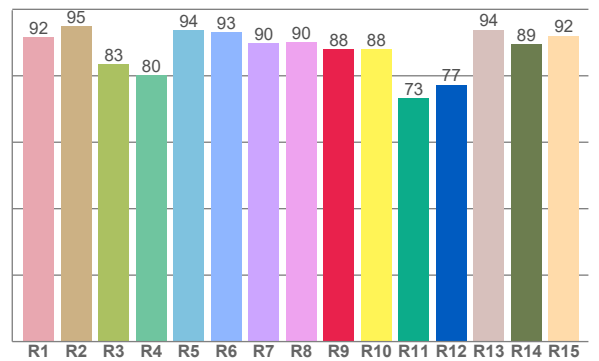




TM30: 88,2



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
91,6	94,8	83,4	80,2	93,7	93,0	89,7	90,2	87,9	88,0	73,2	77,3	93,8	89,4	92,1

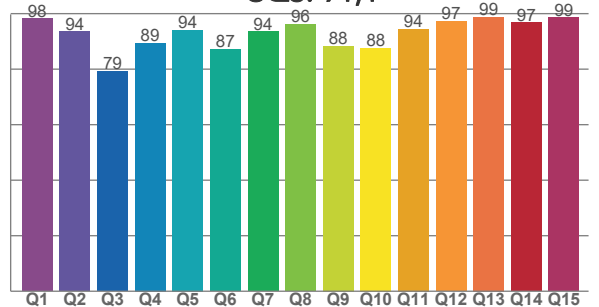
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	95,4	90,4	89,0	86,1	83,5	86,7	91,1	93,7	91,5	79,2	85,1	88,3	83,7	84,5	90,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,2	93,6	79,2	89,4	94,2	87,2	93,6	96,1	88,4	87,6	94,5	97,2	98,8	96,8	98,6

CQS: 91,1



## COLOR PARAMETERS

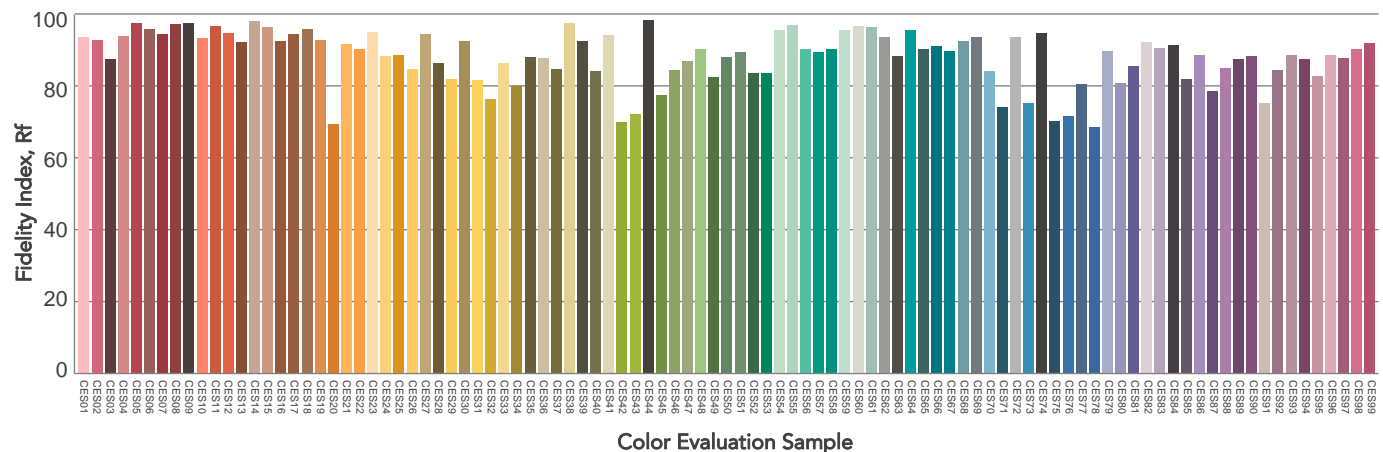
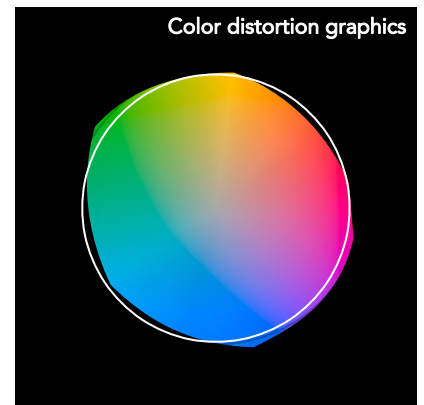
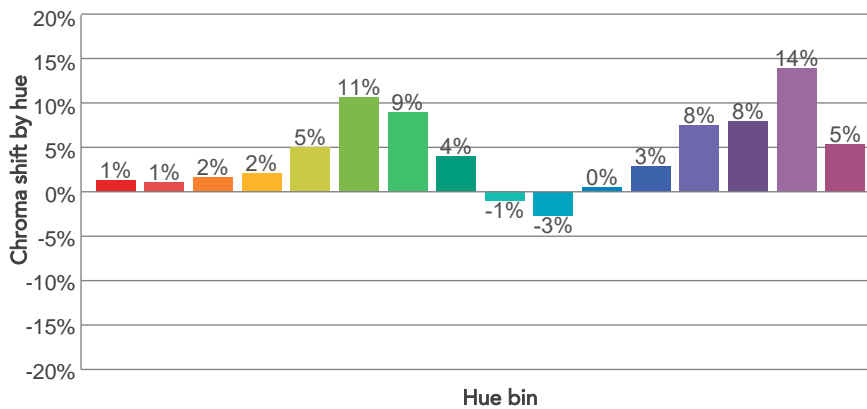
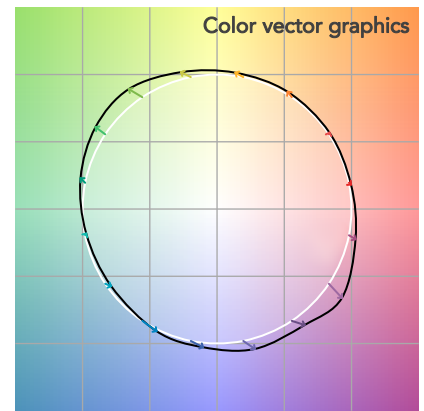
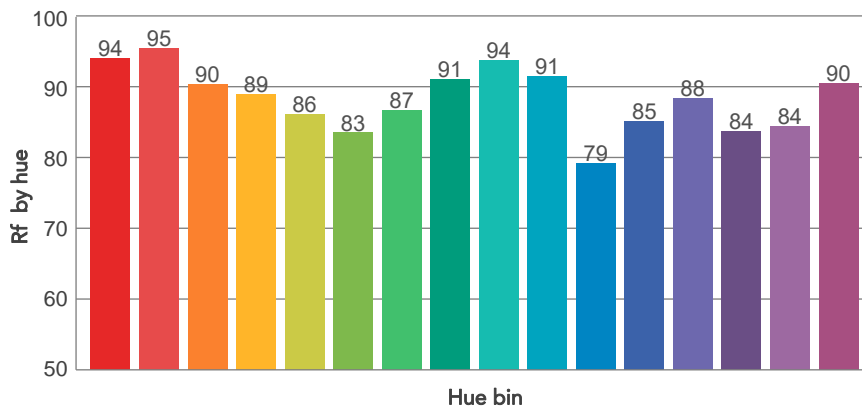
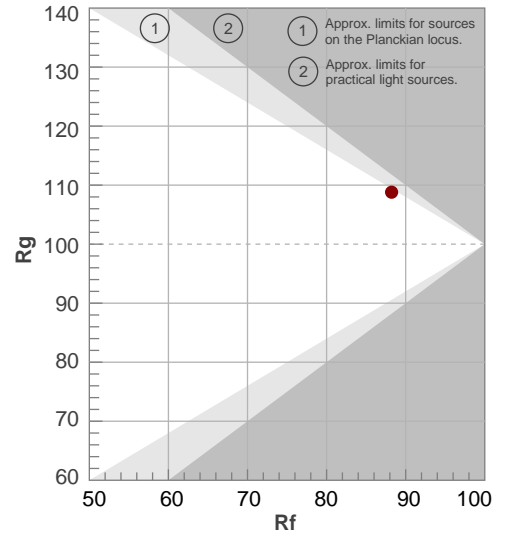
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5616 K	91,0	87,9	88,2	108,8	91,1	86	0,330	0,328	-0,0090

# TM30 DETAILS

**Rf 88,2**  
Fidelity index Rf

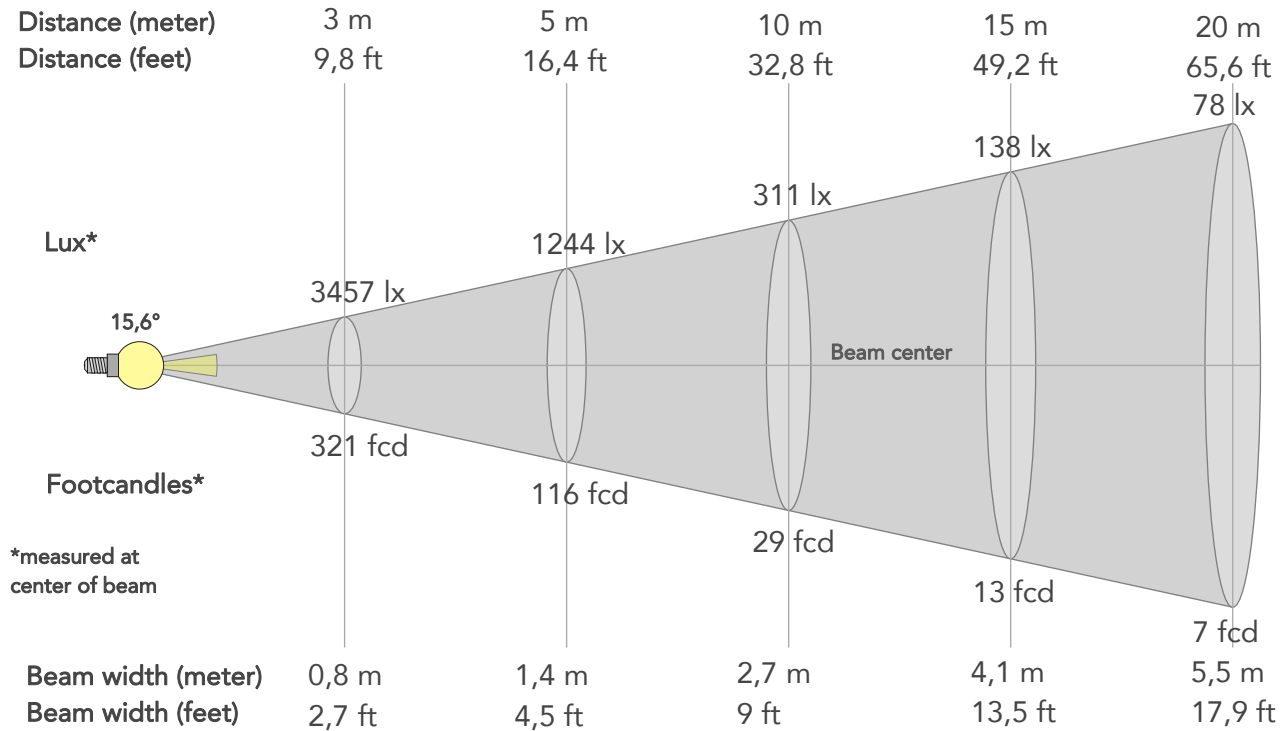
**Rg 108,8**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-2%
2	95	1%	1%
3	90	2%	5%
4	89	2%	6%
5	86	5%	6%
6	83	11%	5%
7	87	9%	0%
8	91	4%	-3%
9	94	-1%	-1%
10	91	-3%	4%
11	79	0%	13%
12	85	3%	10%
13	88	8%	7%
14	84	8%	6%
15	84	14%	-3%
16	90	5%	-2%



## BEAM DETAILS

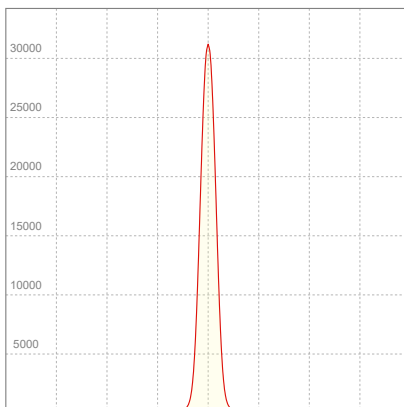
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,6°	26,9°	34,9°	100,0%	99,4%



### BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	31112lx	7778lx	3457lx	1945lx	1244lx	553lx	311lx	138lx	78lx	50lx	35lx	19lx	12lx
Footcand.	2890fcd	723fcd	321fcd	181fcd	116fcd	51fcd	29fcd	13fcd	7fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2,1m	2,7m	4,1m	5,5m	6,8m	8,2m	10,9m	13,7m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	9ft	13,5ft	17,9ft	22,4ft	26,9ft	35,9ft	44,9ft

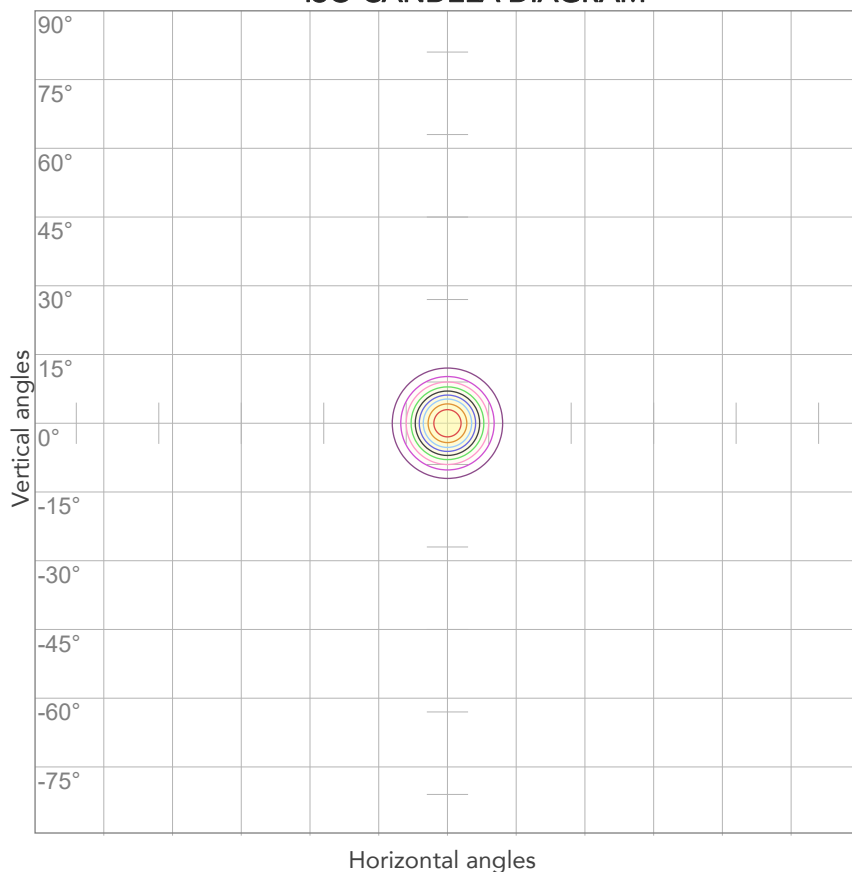
### LINEAR DISTRIBUTION DIAGRAM



### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,313A	64,0W	41lm/W

## ISO CANDELA DIAGRAM



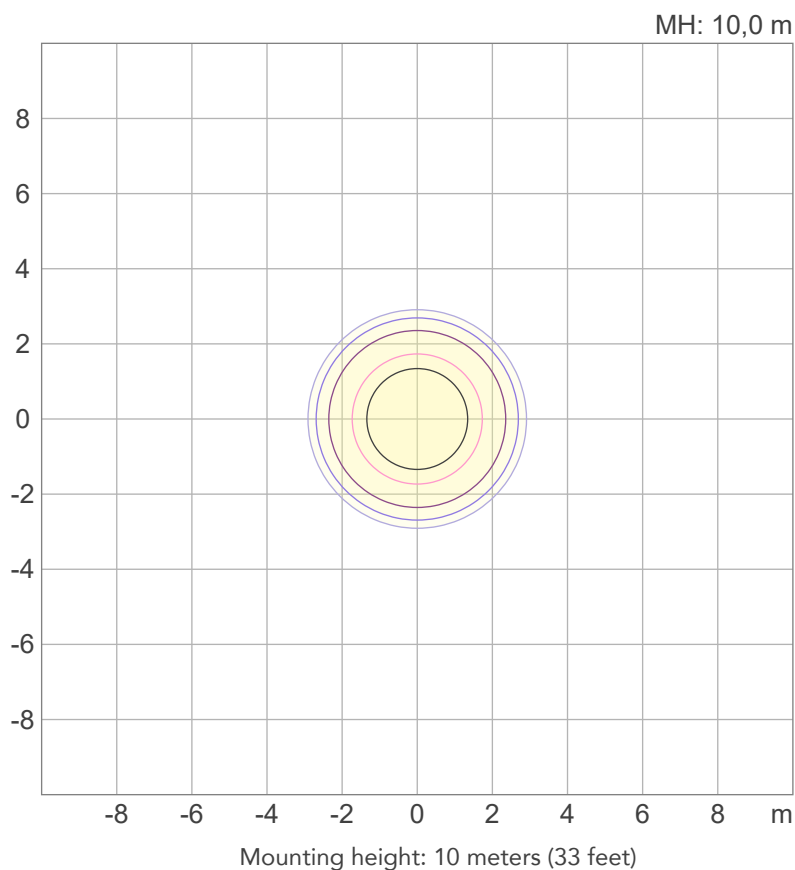
10%	3111 cd
20%	6222 cd
30%	9334 cd
40%	12445 cd
50%	15556 cd
60%	18667 cd
70%	21779 cd
80%	24890 cd

### Conditions:

Number of c-planes: 2

Candela at center: 31112 cd

## ISO LUX DIAGRAM



3%	9,33 lx
5%	15,6 lx
10%	31,1 lx
30%	93,3 lx
50%	156 lx

### Conditions:

Number of c-planes: 2

Lux at center: 311 lx

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



Total lumen output:

2651 lm

Peak candela output:

31450 cd

Light quality:

CRI: 91,0

Color temperature:

5937 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Narrow Lens

Target:

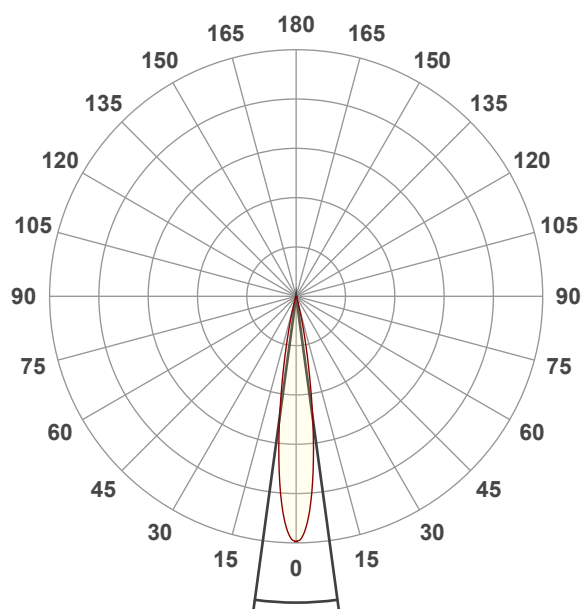
6000K

Operator:

Paolo Carvone

Date and time:

01/08/2023 18:10:44

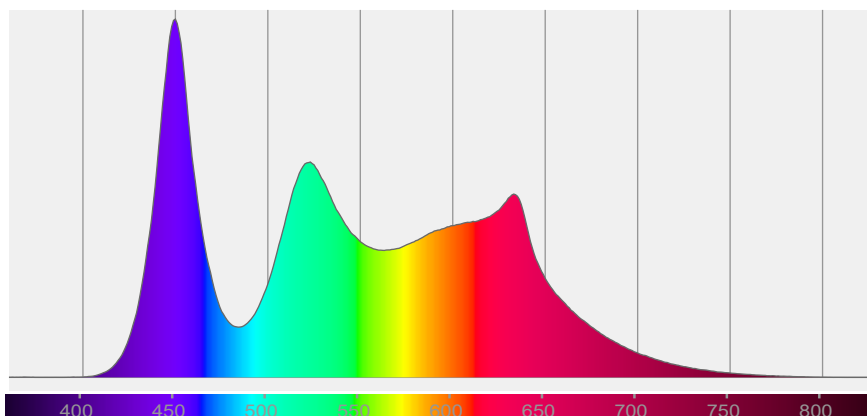


Beam angle 50%: 15,5°

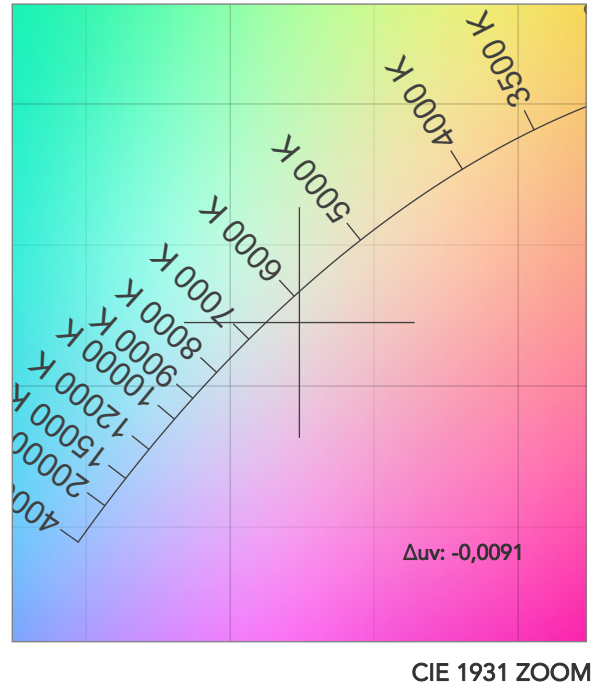
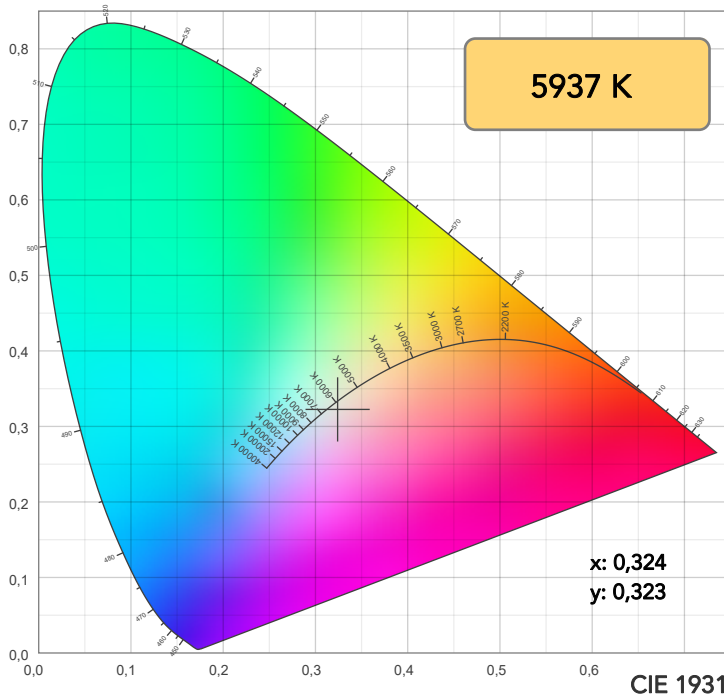
Field angle 10%: 26,6°

Cut off angle 2.5%: 34,6°

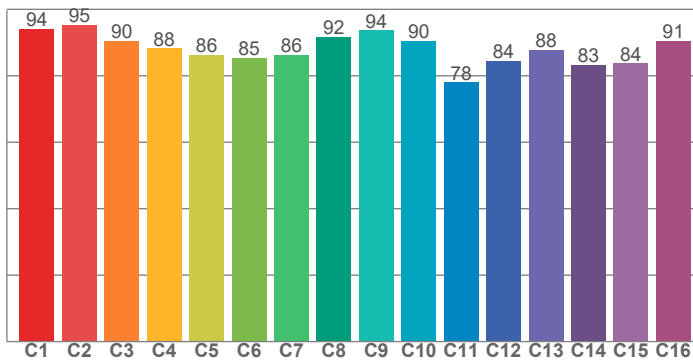
**Spectra**



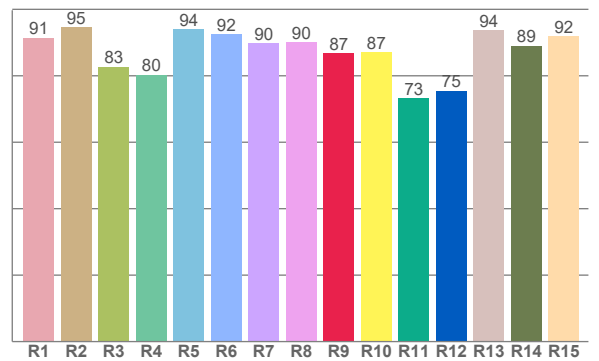




TM30: 88,1



CRI: 89,4 (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
91,4	94,6	82,8	80,3	94,0	92,4	89,7	90,0	86,9	87,2	73,3	75,5	93,7	89,1	91,8

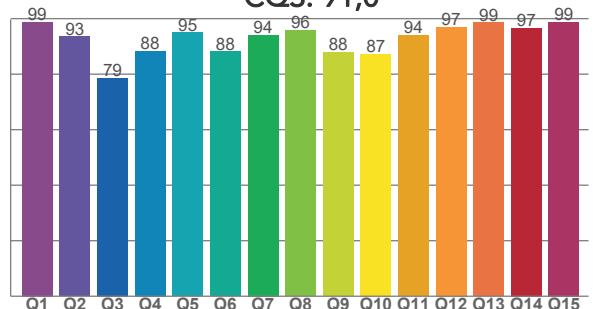
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,0	95,3	90,5	88,3	86,3	85,4	86,4	91,7	93,6	90,5	78,0	84,5	87,8	83,4	83,7	90,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,7	93,5	78,7	88,3	95,0	88,1	94,2	95,8	87,9	87,2	94,0	97,0	98,6	96,7	98,8

CQS: 91,0



## COLOR PARAMETERS

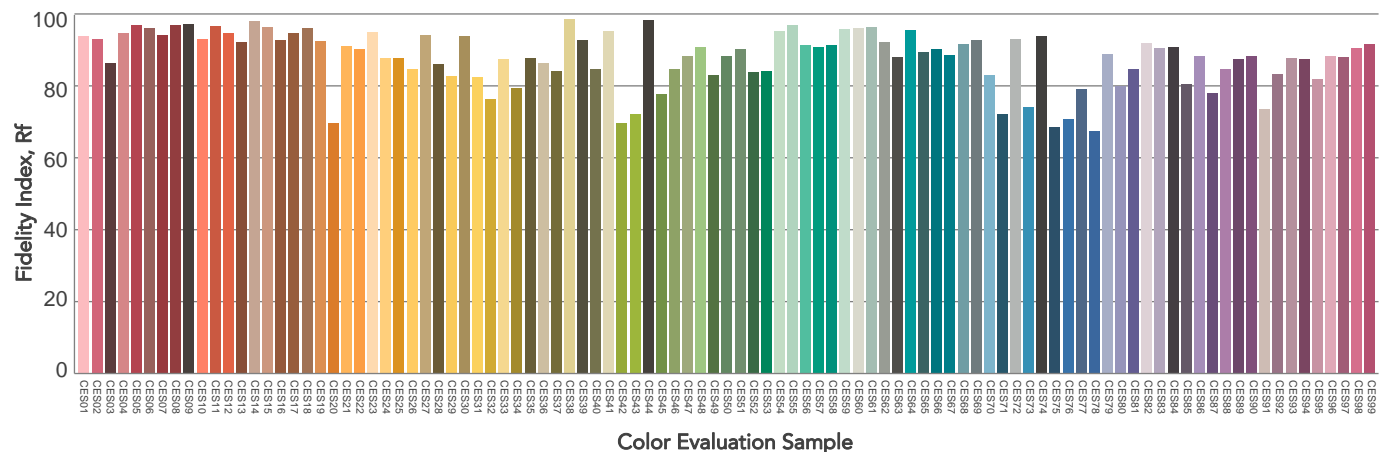
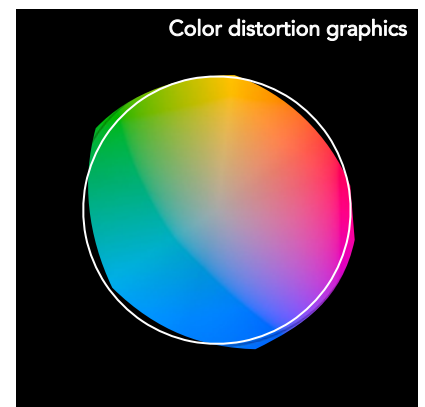
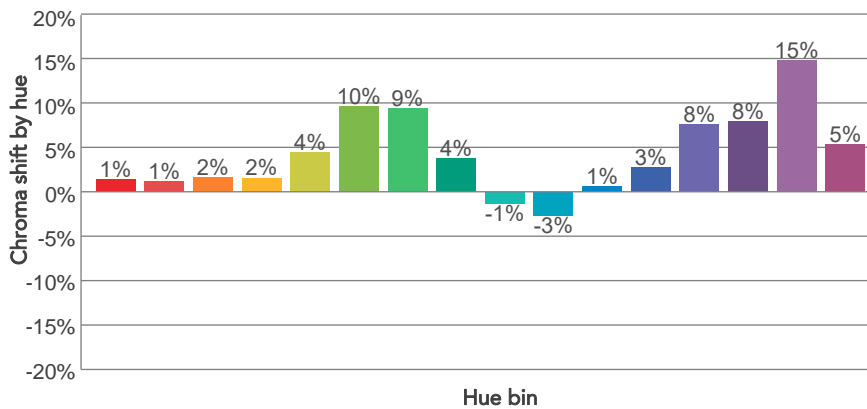
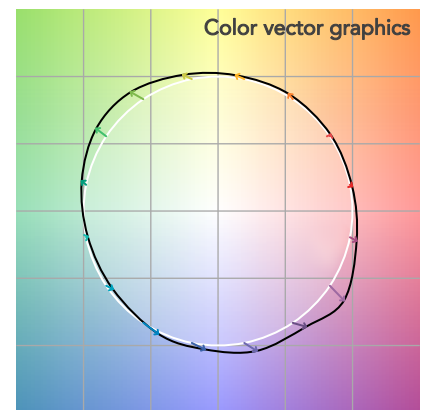
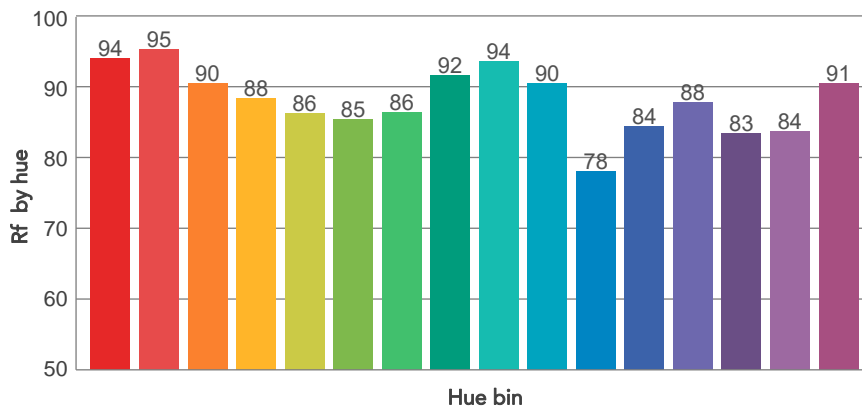
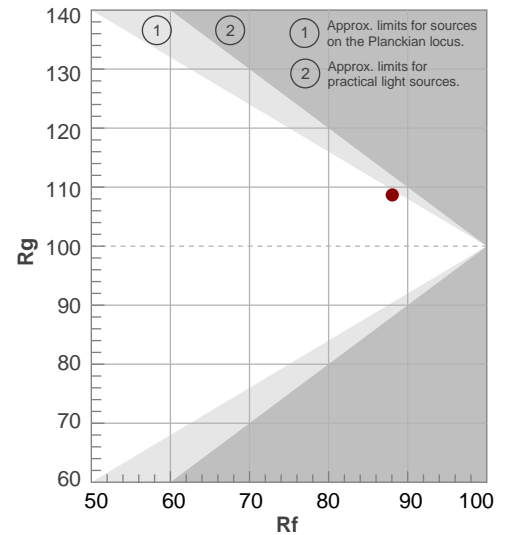
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
5937 K	91,0	86,9	88,1	108,7	91,0	87	0,324	0,323	-0,0091

# TM30 DETAILS

**Rf 88,1**  
Fidelity index Rf

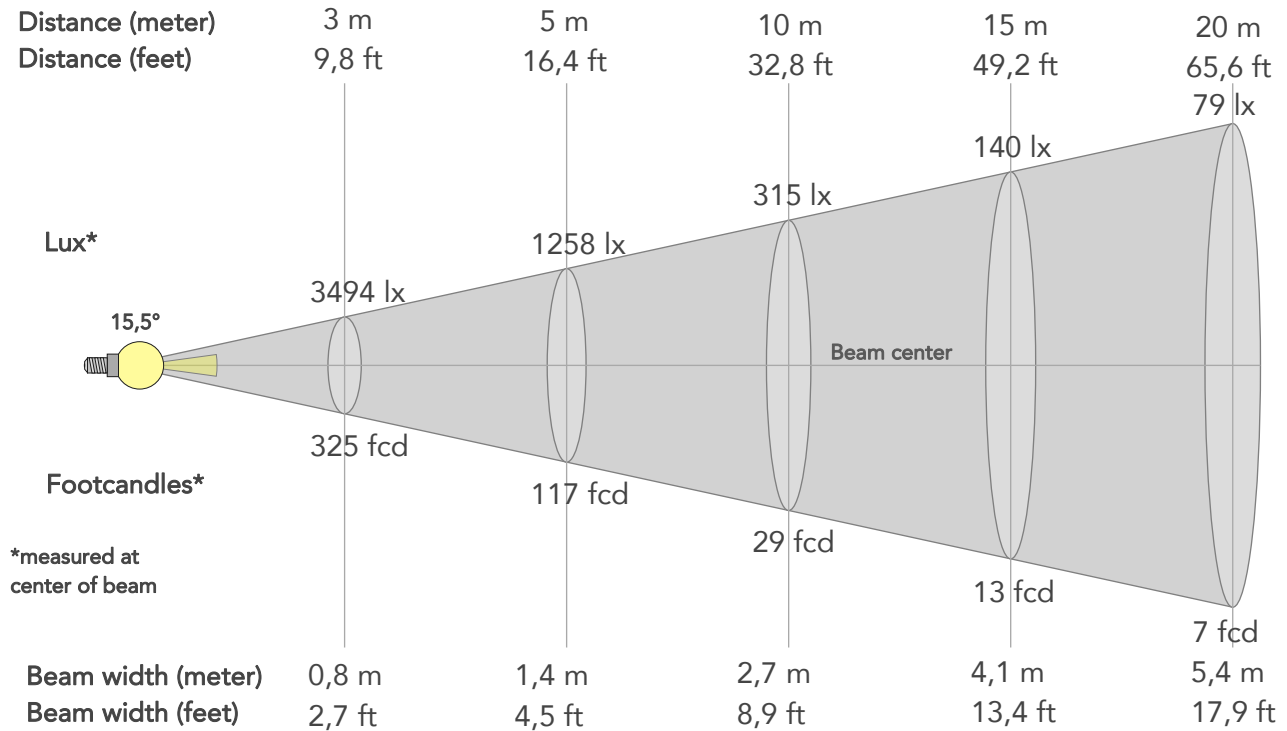
**Rg 108,7**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	95	1%	1%
3	90	2%	5%
4	88	2%	7%
5	86	4%	6%
6	85	10%	5%
7	86	9%	-1%
8	92	4%	-2%
9	94	-1%	0%
10	90	-3%	5%
11	78	1%	14%
12	84	3%	10%
13	88	8%	8%
14	83	8%	7%
15	84	15%	-3%
16	91	5%	-2%



## BEAM DETAILS

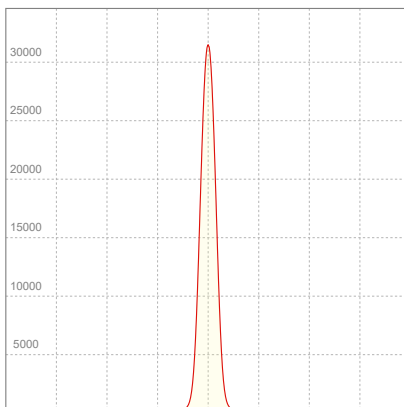
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,5°	26,6°	34,6°	100,0%	99,4%



### BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	31450lx	7863lx	3494lx	1966lx	1258lx	559lx	315lx	140lx	79lx	50lx	35lx	20lx	13lx
Footcand.	2922fcd	730fcd	325fcd	183fcd	117fcd	52fcd	29fcd	13fcd	7fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,2m	10,9m	13,6m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	8,9ft	13,4ft	17,9ft	22,3ft	26,8ft	35,7ft	44,7ft

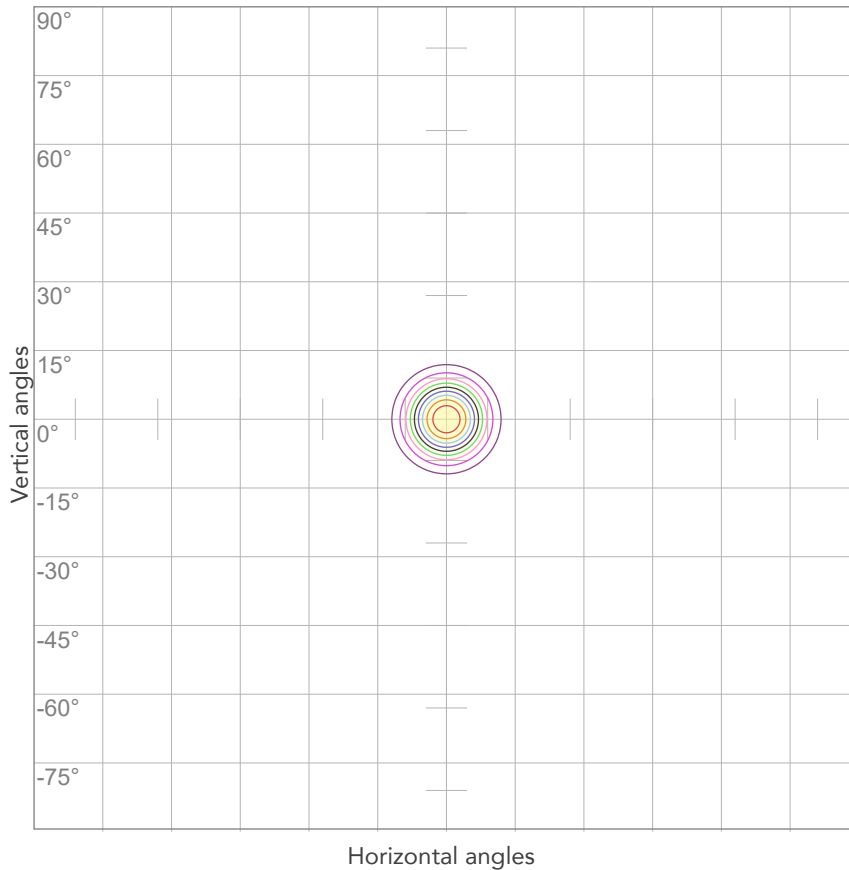
### LINEAR DISTRIBUTION DIAGRAM



### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,316A	64,9W	41lm/W

## ISO CANDELA DIAGRAM



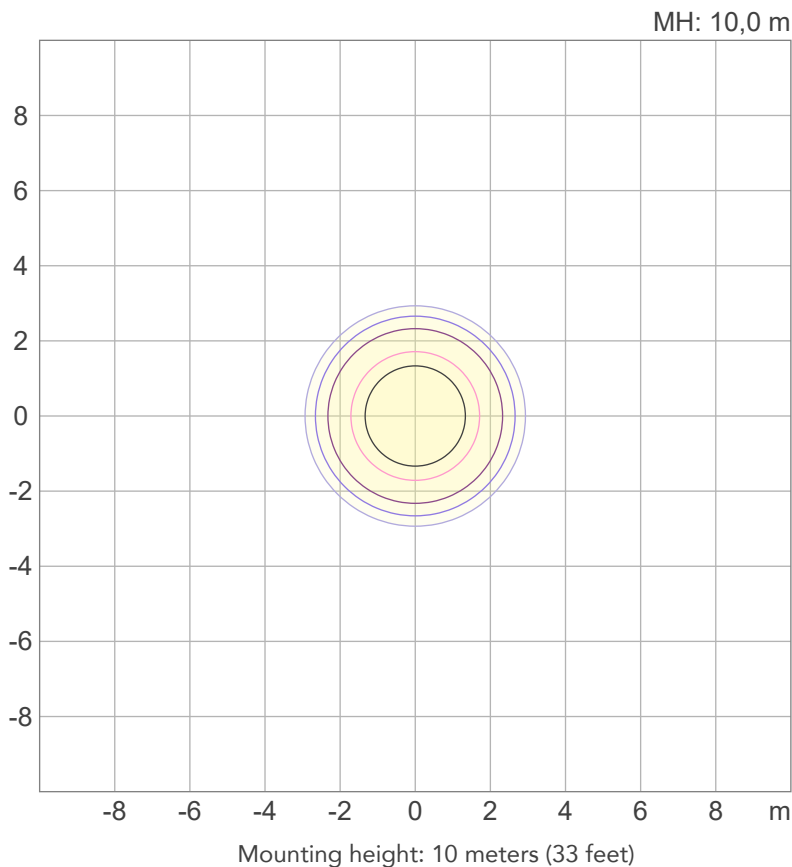
10%	3145 cd
20%	6290 cd
30%	9435 cd
40%	12580 cd
50%	15725 cd
60%	18870 cd
70%	22015 cd
80%	25160 cd

### Conditions:

Number of c-planes: 2

Candela at center: 31450 cd

## ISO LUX DIAGRAM



3%	9,44 lx
5%	15,7 lx
10%	31,5 lx
30%	94,4 lx
50%	157 lx

### Conditions:

Number of c-planes: 2

Lux at center: 315 lx

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



Total lumen output:

3348 lm

Peak candela output:

8312 cd

Light quality:

CRI: 34,8

Color temperature:

10916 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Medium Lens

Target:

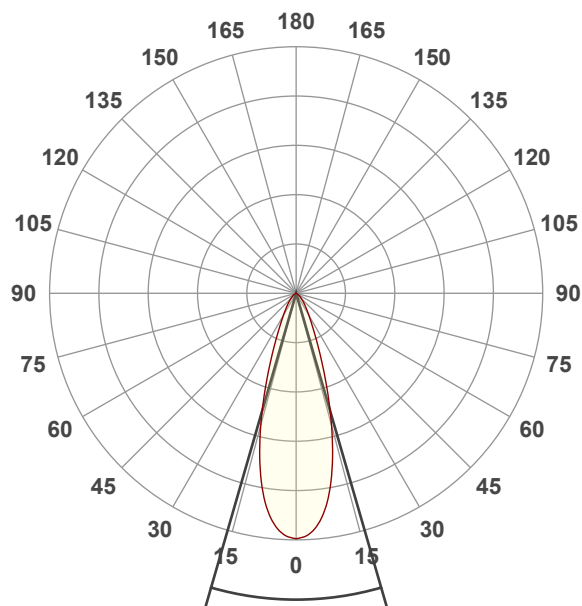
Full On

Operator:

Salvatore Giglio

Date and time:

21/11/2023 12:43:37

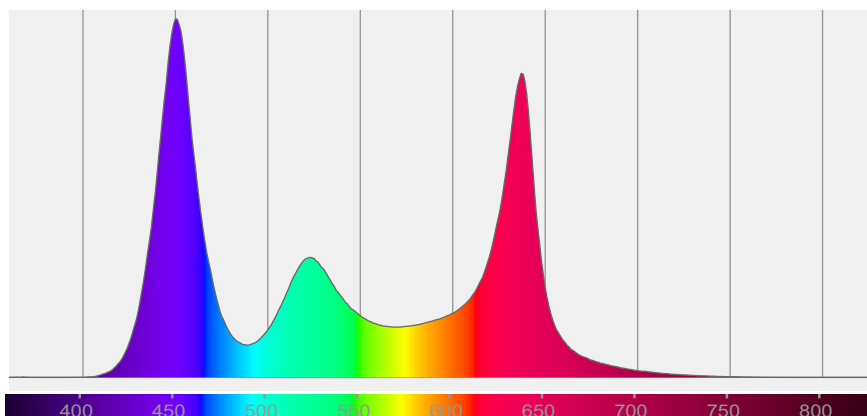


Beam angle 50%: 32,2°

Field angle 10%: 60,9°

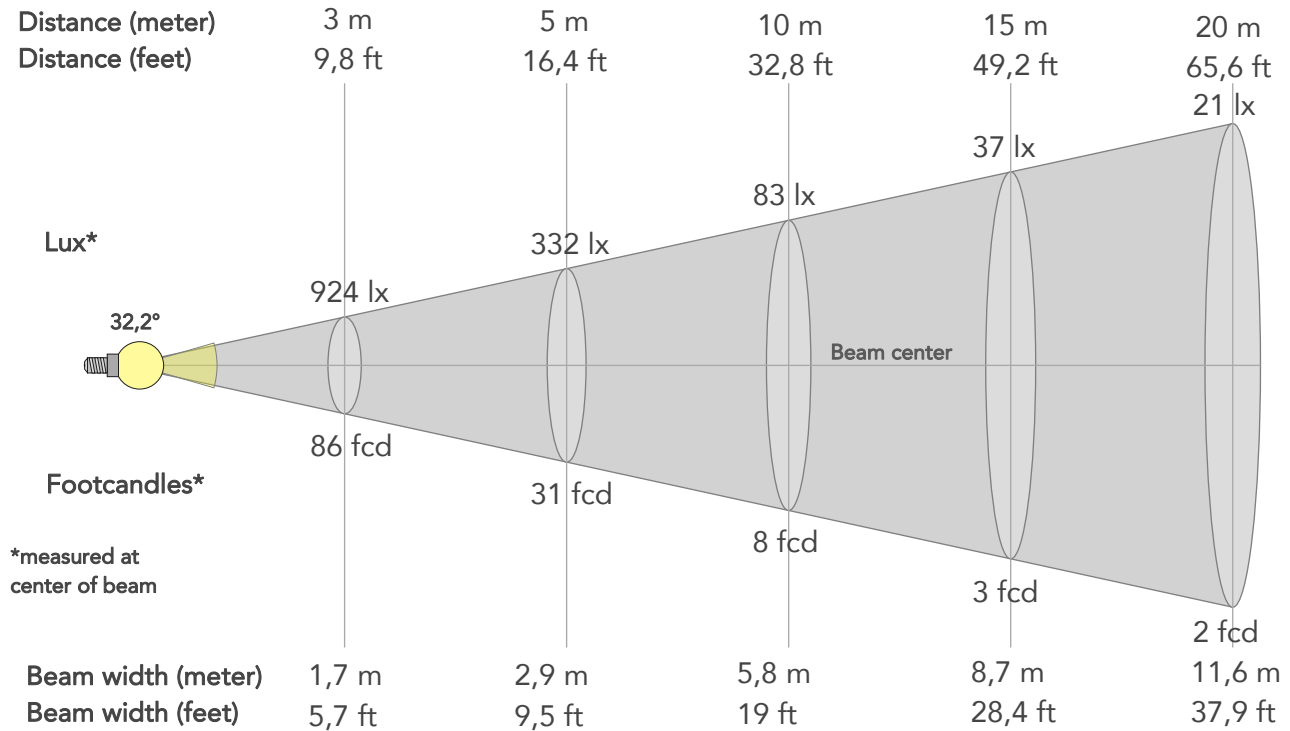
Cut off angle 2.5%: 94,7°

**Spectra**



# BEAM DETAILS

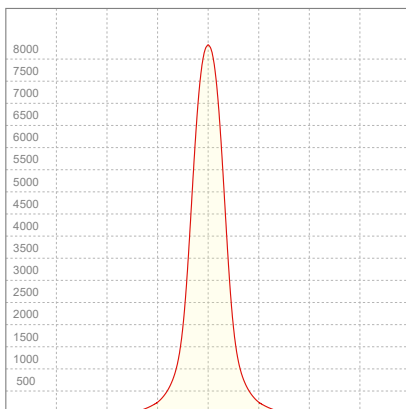
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,2°	60,9°	94,7°	99,0%	93,6%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	8312lx	2078lx	924lx	520lx	332lx	148lx	83lx	37lx	21lx	13lx	9lx	5lx	3lx
Footcand.	772fcd	193fcd	86fcd	48fcd	31fcd	14fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,7m	2,3m	2,9m	4,3m	5,8m	8,7m	11,6m	14,5m	17,3m	23,1m	28,9m
Beam wid.	1,9ft	3,8ft	5,7ft	7,6ft	9,5ft	14,2ft	19ft	28,4ft	37,9ft	47,4ft	56,9ft	75,8ft	94,8ft

## LINEAR DISTRIBUTION DIAGRAM

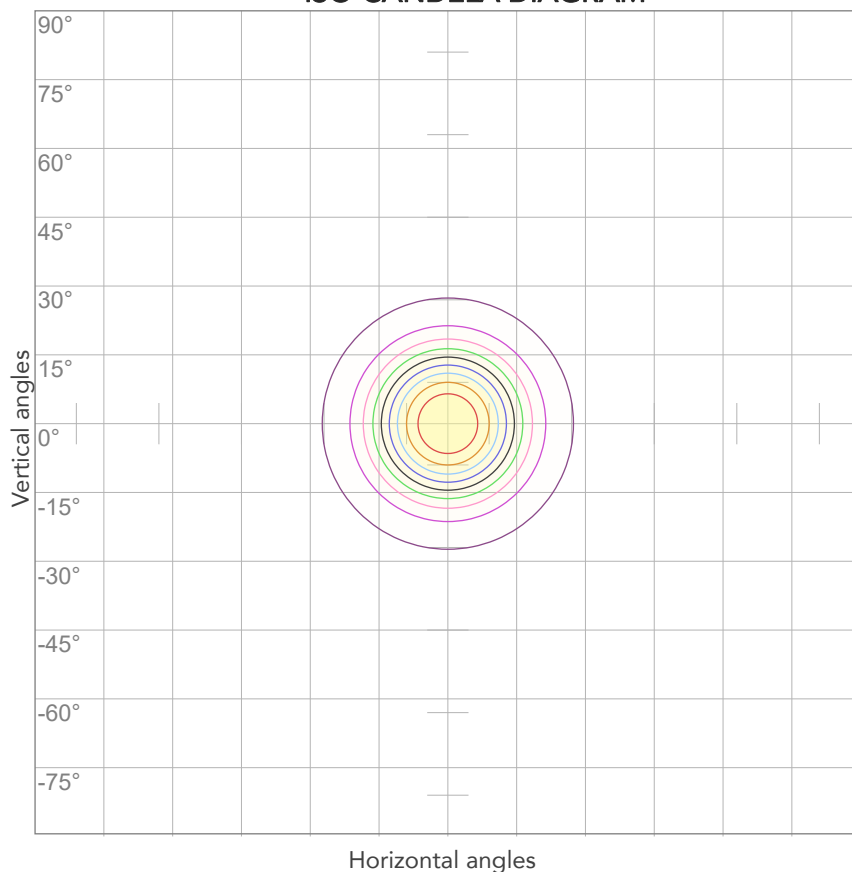


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	0,524A	111,4W	0,94	30lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



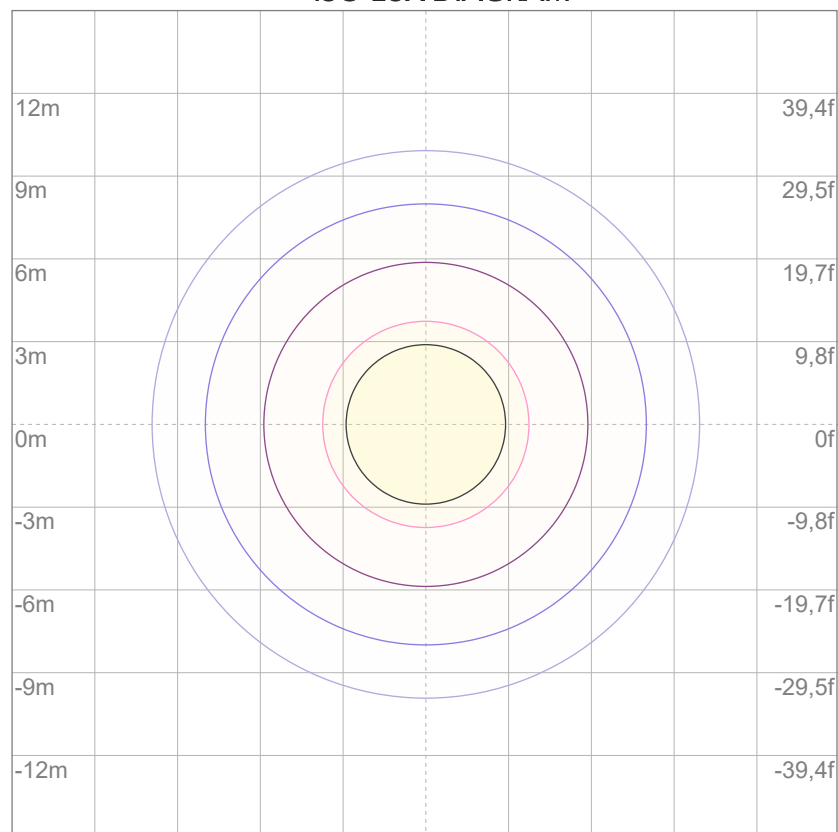
10%	831 cd
20%	1662 cd
30%	2494 cd
40%	3325 cd
50%	4156 cd
60%	4987 cd
70%	5819 cd
80%	6650 cd

### Conditions:

Number of c-planes: 2

Candela at center: 8312 cd

## ISO LUX DIAGRAM



3%	2,49 lx
5%	4,16 lx
10%	8,31 lx
30%	24,9 lx
50%	41,6 lx

### Conditions:

Number of c-planes: 2

Lux at center: 83,1 lx

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



Total lumen output:

879 lm

Peak candela output:

2295 cd

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Medium Lens

Target:

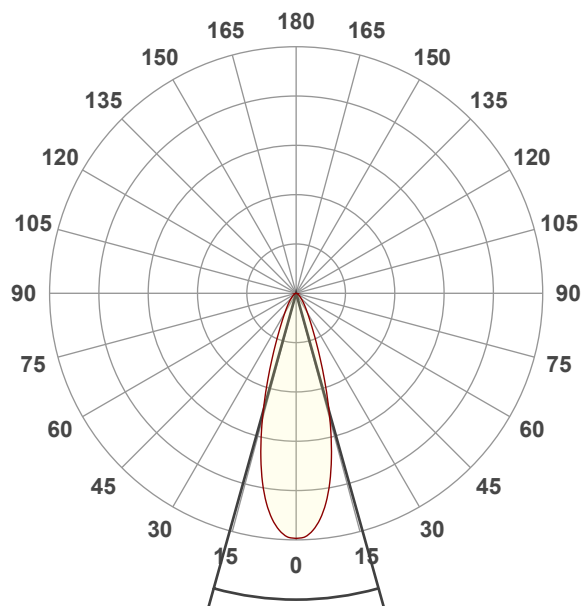
Red

Operator:

Salvatore Giglio

Date and time:

21/11/2023 12:23:14

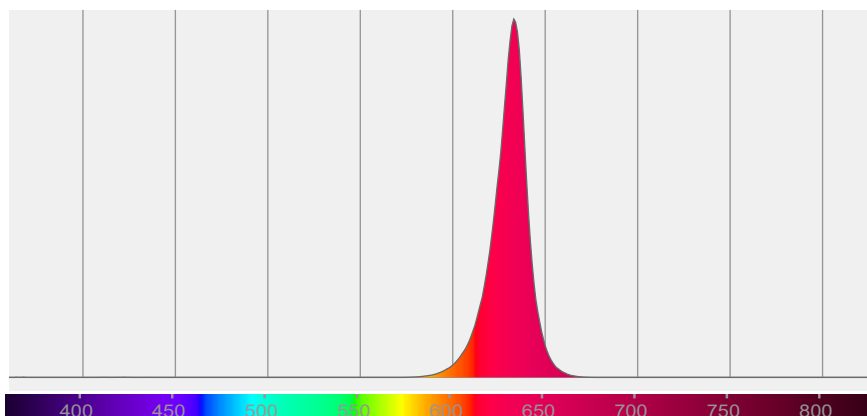


Beam angle 50%: 31,2°

Field angle 10%: 58,5°

Cut off angle 2.5%: 93,5°

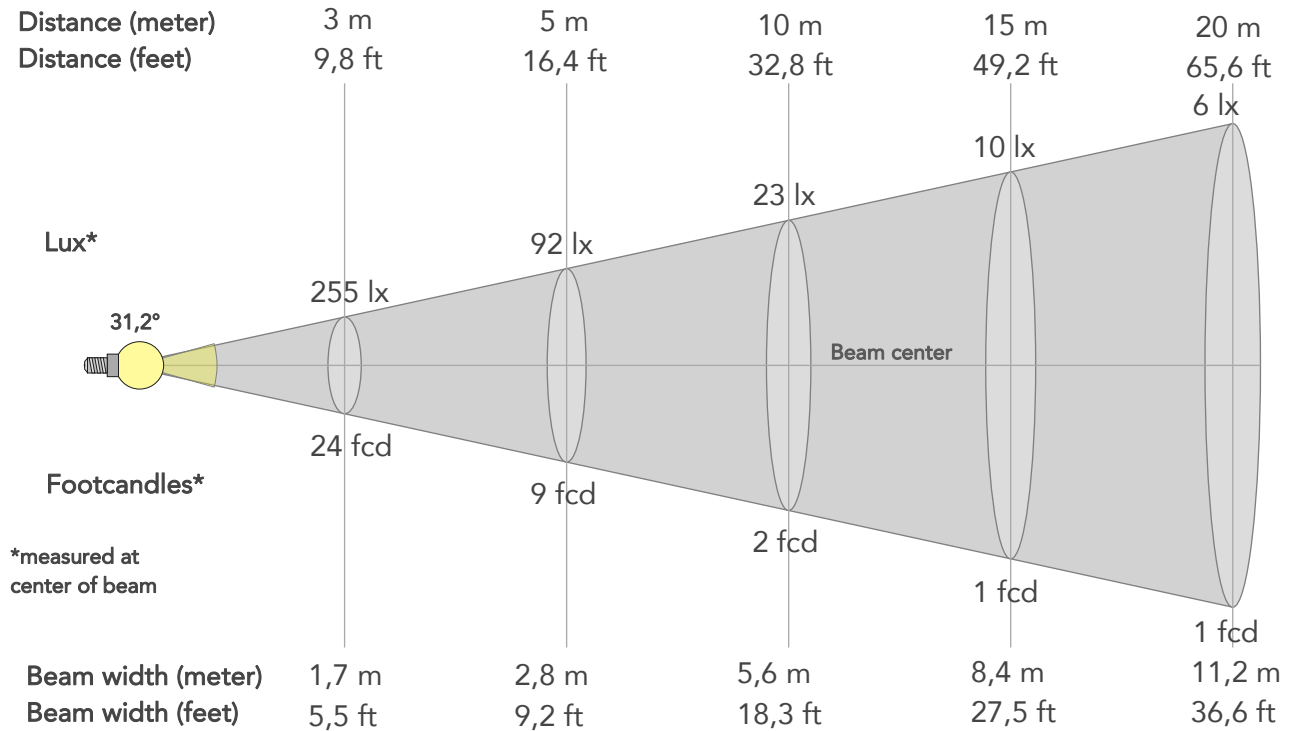
**Spectra**





# BEAM DETAILS

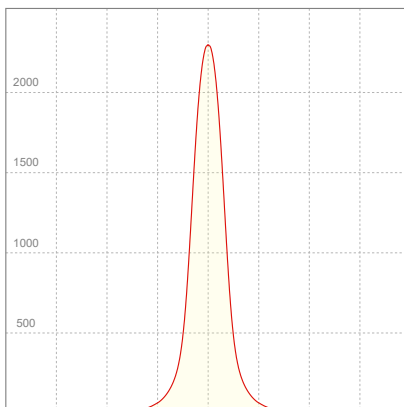
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,2°	58,5°	93,5°	98,4%	92,7%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2295lx	574lx	255lx	143lx	92lx	41lx	23lx	10lx	6lx	4lx	3lx	1lx	1lx
Footcand.	213fcd	53fcd	24fcd	13fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	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	22,3m	27,9m
Beam wid.	1,8ft	3,7ft	5,5ft	7,3ft	9,2ft	13,7ft	18,3ft	27,5ft	36,6ft	45,8ft	55ft	73,3ft	91,6ft

## LINEAR DISTRIBUTION DIAGRAM

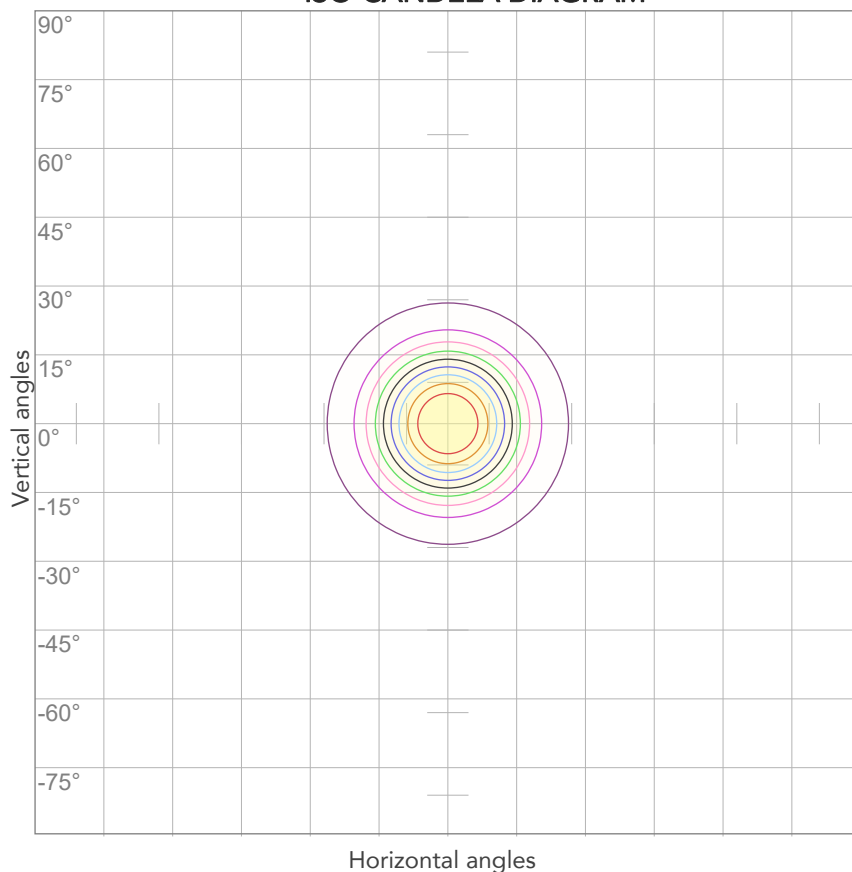


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	0,166A	30,4W	0,82	29lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



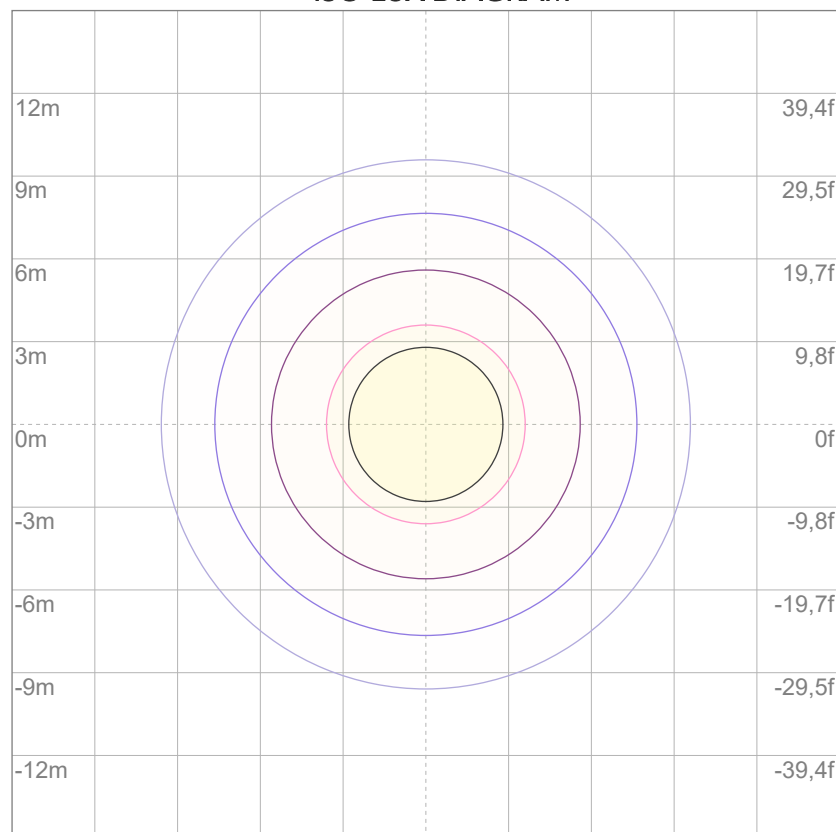
10%	229 cd
20%	459 cd
30%	688 cd
40%	918 cd
50%	1147 cd
60%	1377 cd
70%	1606 cd
80%	1836 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2295 cd

## ISO LUX DIAGRAM



3%	0,688 lx
5%	1,15 lx
10%	2,29 lx
30%	6,88 lx
50%	11,5 lx

### Conditions:

Number of c-planes: 2

Lux at center: 22,9 lx

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



Total lumen output:

1158 lm

Peak candela output:

2805 cd

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Medium Lens

Target:

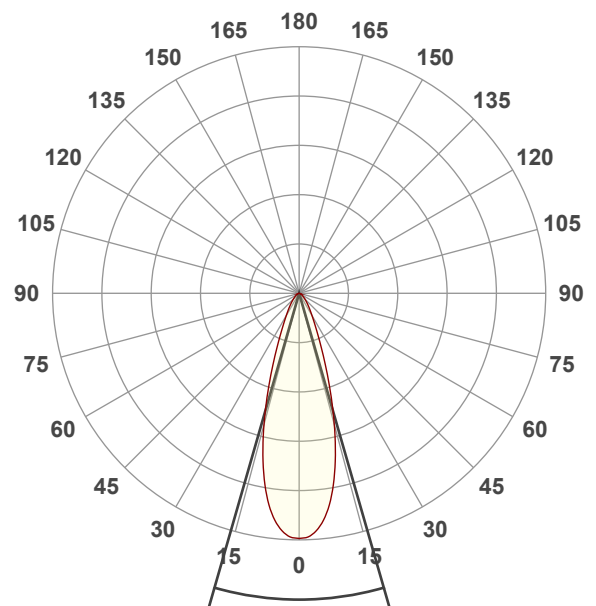
Green

Operator:

Salvatore Giglio

Date and time:

21/11/2023 12:24:39

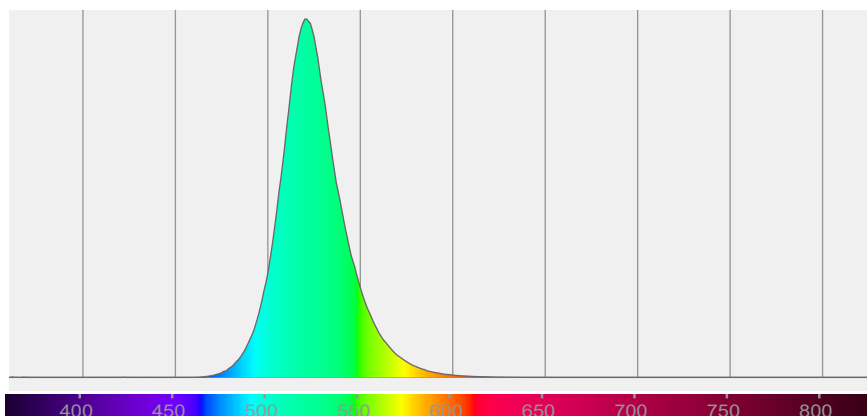


Beam angle 50%: 32,1°

Field angle 10%: 61,2°

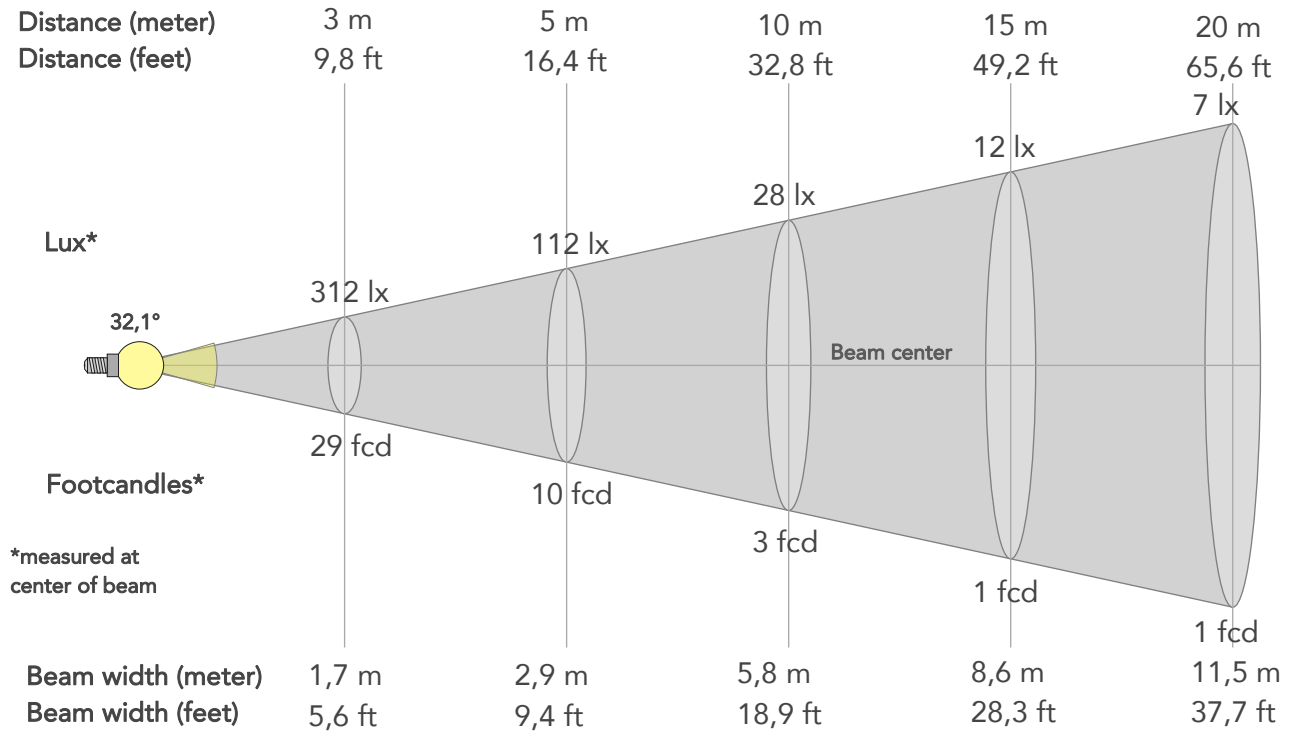
Cut off angle 2.5%: 98,5°

**Spectra**



# BEAM DETAILS

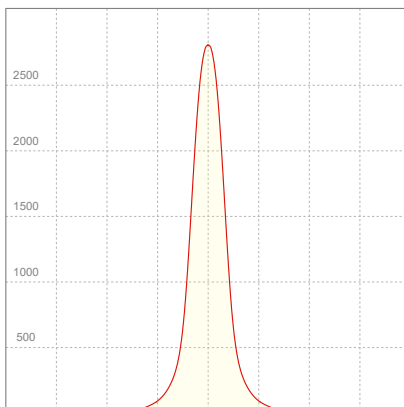
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,1°	61,2°	98,5°	98,0%	91,5%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2805lx	701lx	312lx	175lx	112lx	50lx	28lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	261fcd	65fcd	29fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,7m	2,3m	2,9m	4,3m	5,8m	8,6m	11,5m	14,4m	17,3m	23m	28,8m
Beam wid.	1,9ft	3,8ft	5,6ft	7,5ft	9,4ft	14,1ft	18,9ft	28,3ft	37,7ft	47,2ft	56,6ft	75,5ft	94,3ft

## LINEAR DISTRIBUTION DIAGRAM

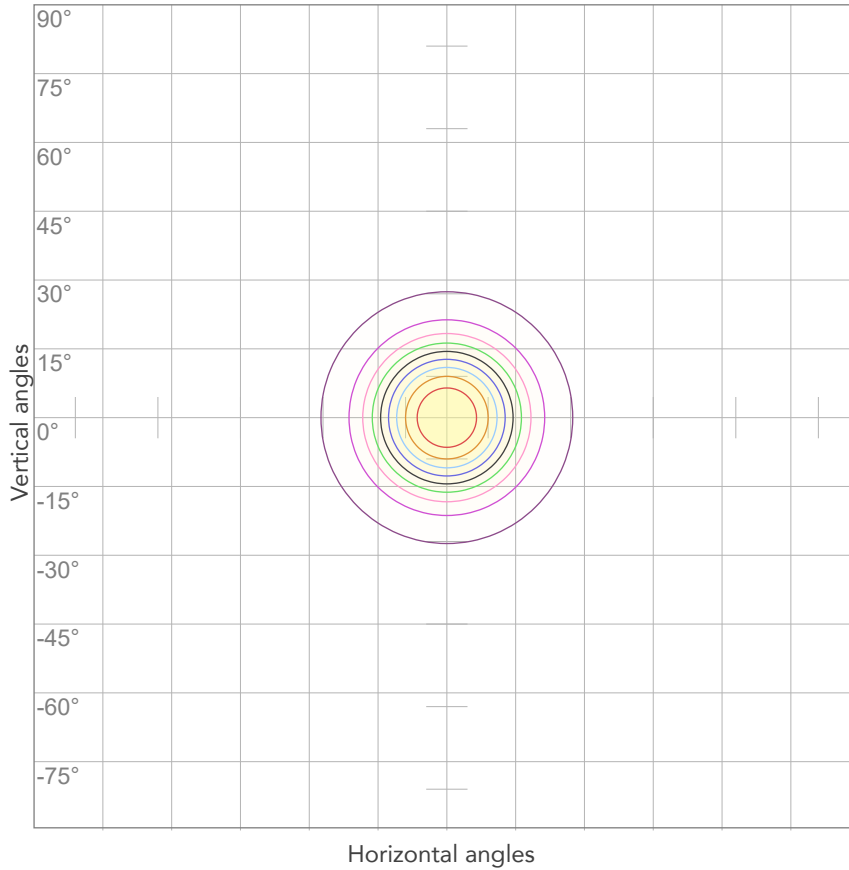


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,168A	31,1W	0,82	37lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



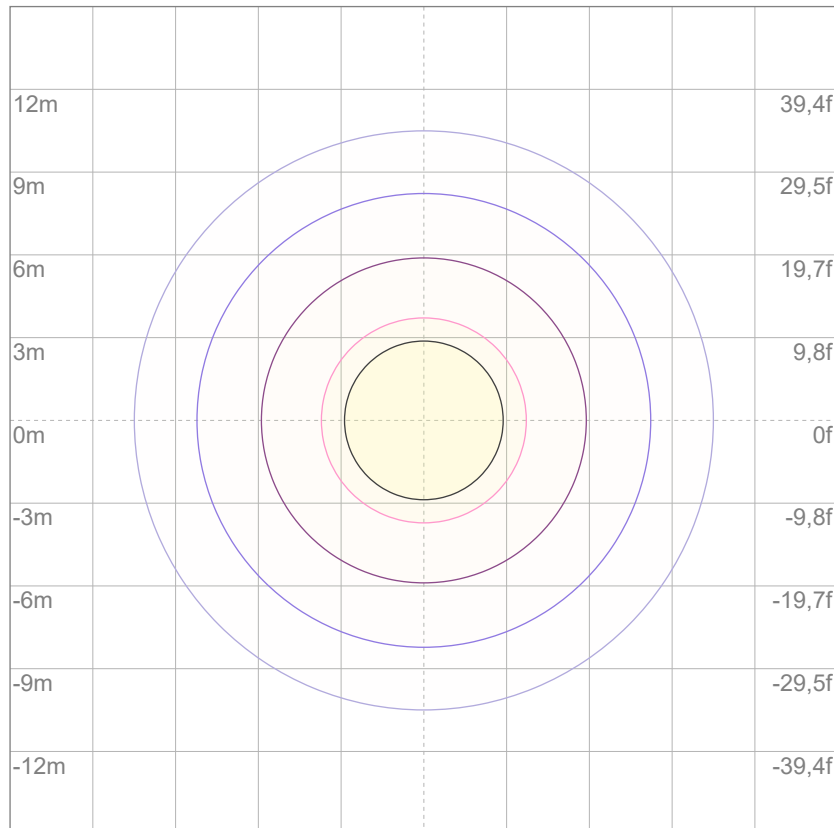
10%	280 cd
20%	561 cd
30%	841 cd
40%	1122 cd
50%	1402 cd
60%	1683 cd
70%	1963 cd
80%	2244 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2805 cd

## ISO LUX DIAGRAM



3%	0,841 lx
5%	1,40 lx
10%	2,80 lx
30%	8,41 lx
50%	14,0 lx

### Conditions:

Number of c-planes: 2

Lux at center: 28,0 lx

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



Total lumen output:

216 lm

Peak candela output:

502 cd

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Medium Lens

Target:

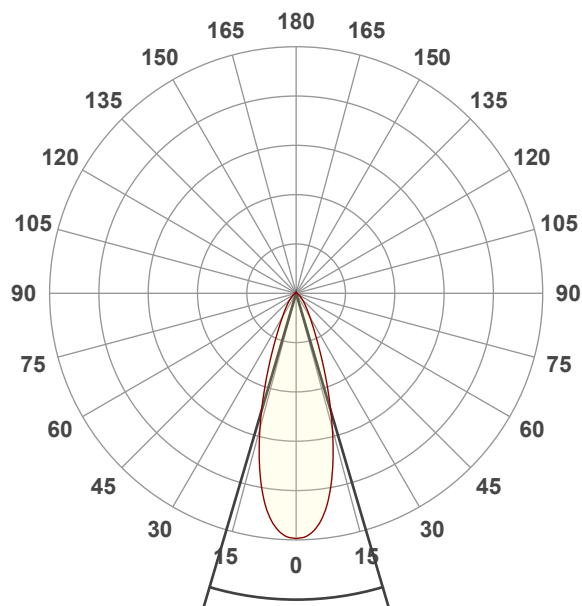
Blue

Operator:

Salvatore Giglio

Date and time:

21/11/2023 12:26:00

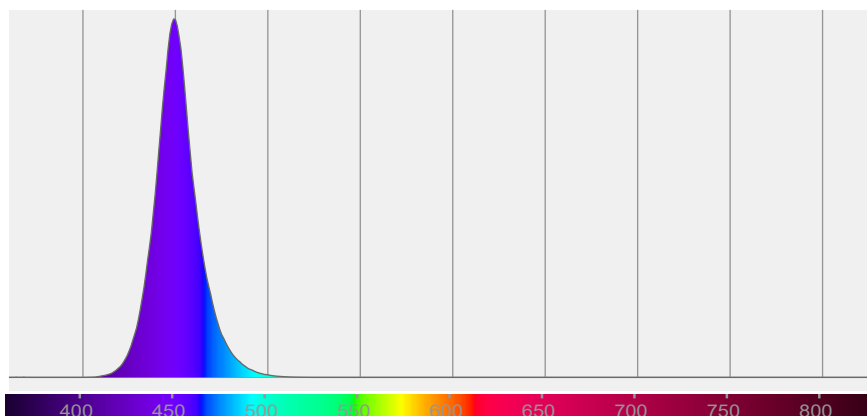


Beam angle 50%: 32,8°

Field angle 10%: 62,7°

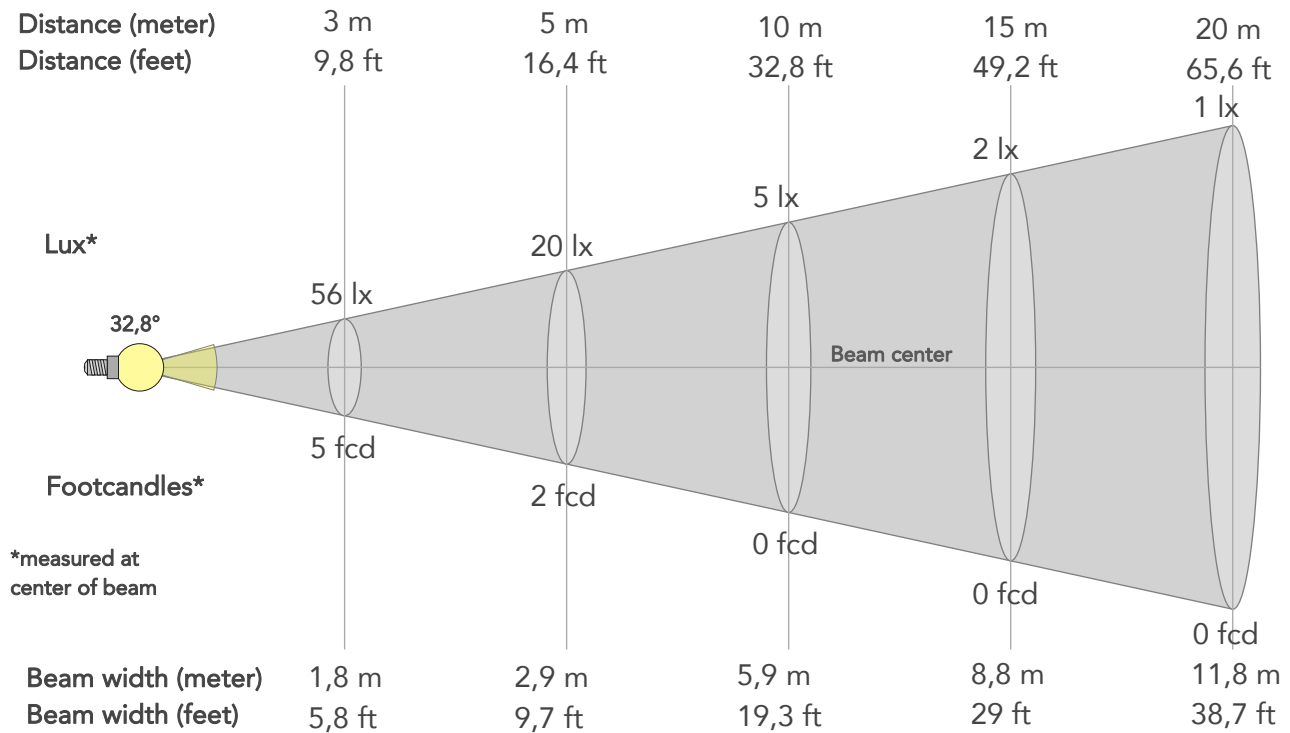
Cut off angle 2.5%: 99,8°

**Spectra**



# BEAM DETAILS

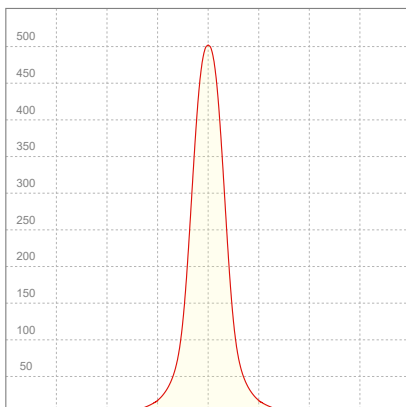
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,8°	62,7°	99,8°	97,8%	91,4%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	502lx	125lx	56lx	31lx	20lx	9lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	47fcd	12fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	2,9m	4,4m	5,9m	8,8m	11,8m	14,7m	17,7m	23,6m	29,5m
Beam wid.	1,9ft	3,9ft	5,8ft	7,7ft	9,7ft	14,5ft	19,3ft	29ft	38,7ft	48,3ft	58ft	77,3ft	96,7ft

## LINEAR DISTRIBUTION DIAGRAM

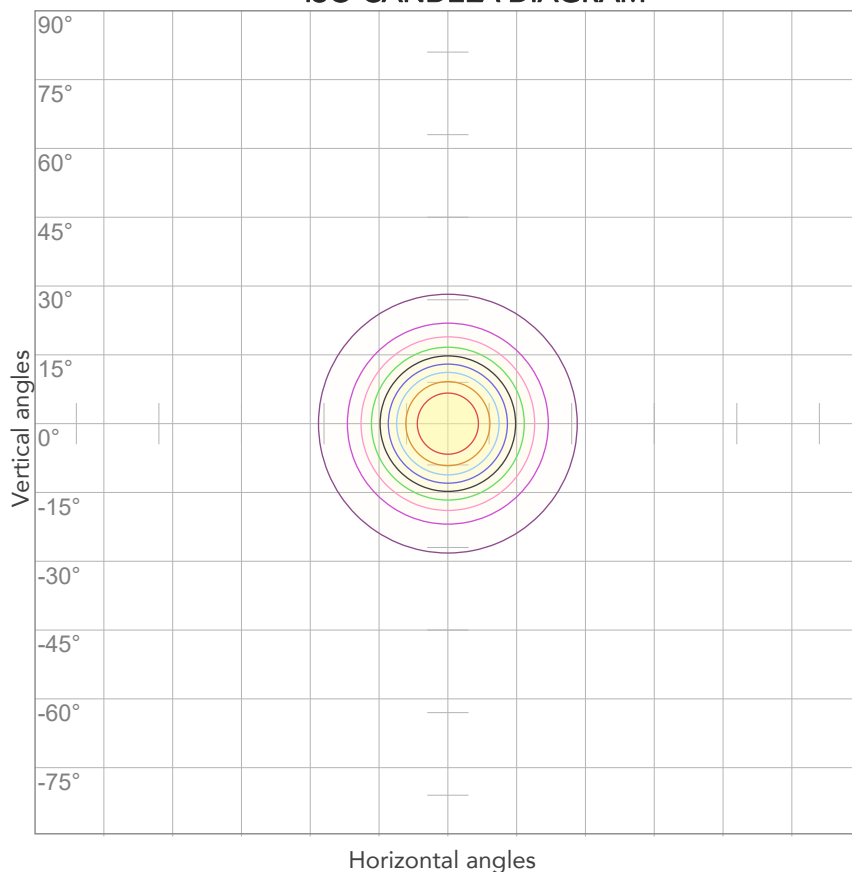


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
224V	0,167A	30,7W	0,82	7lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



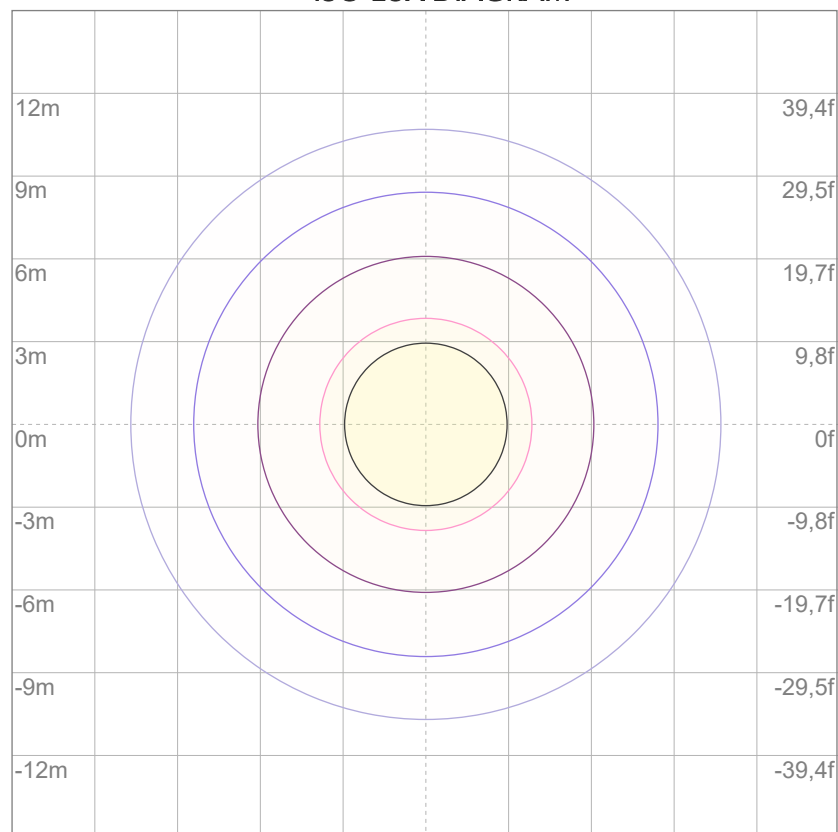
10%	50 cd
20%	100 cd
30%	151 cd
40%	201 cd
50%	251 cd
60%	301 cd
70%	351 cd
80%	401 cd

### Conditions:

Number of c-planes: 2

Candela at center: 502 cd

## ISO LUX DIAGRAM



3%	0,151 lx
5%	0,251 lx
10%	0,502 lx
30%	1,51 lx
50%	2,51 lx

### Conditions:

Number of c-planes: 2

Lux at center: 5,02 lx

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





Total lumen output:

1840 lm

Peak candela output:

4297 cd

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Medium Lens

Target:

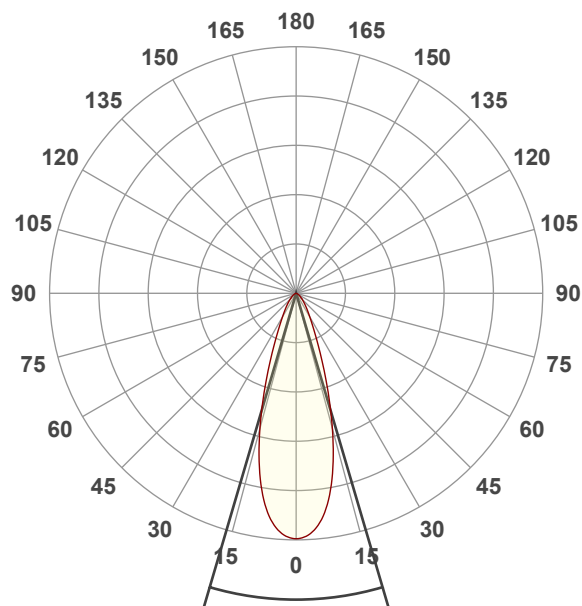
White

Operator:

Salvatore Giglio

Date and time:

21/11/2023 12:27:31

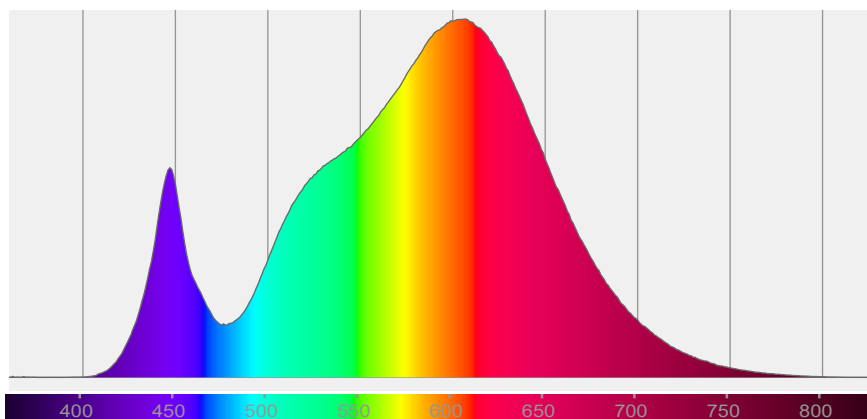


Beam angle 50%: 32,8°

Field angle 10%: 62,7°

Cut off angle 2.5%: 100°

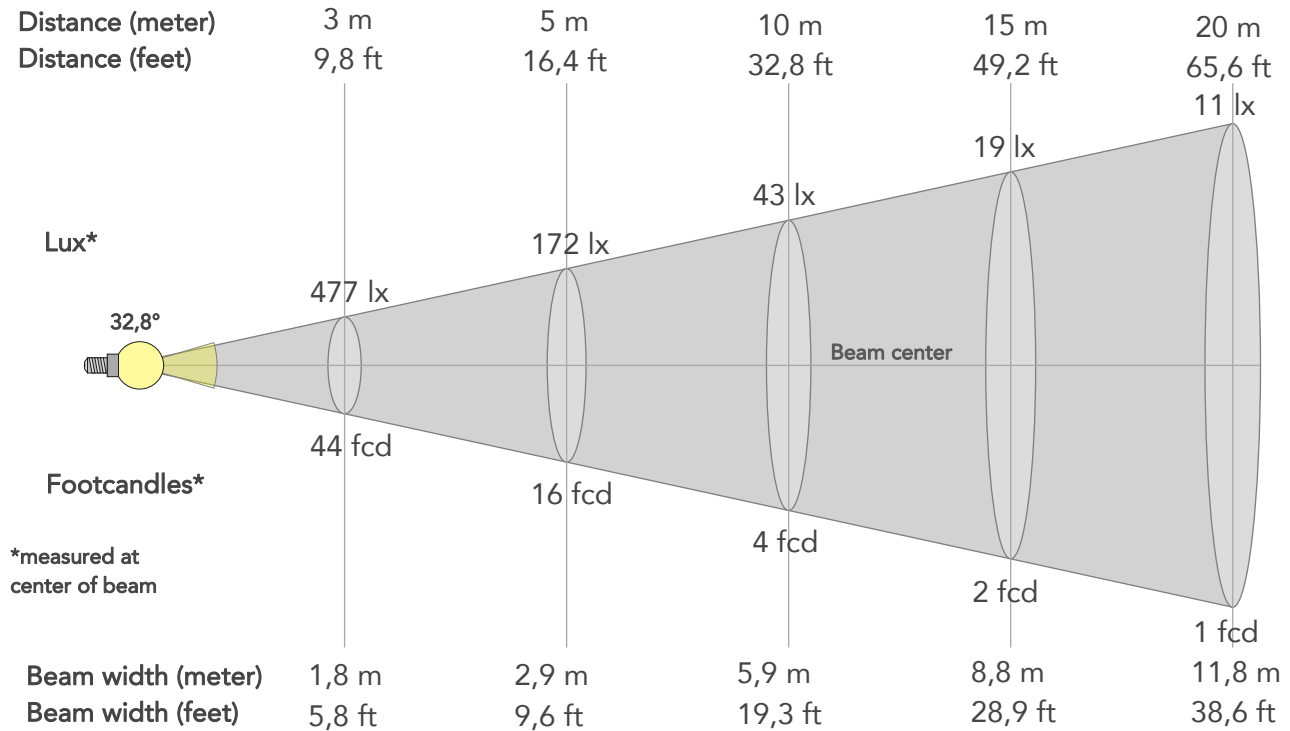
**Spectra**



# BEAM DETAILS



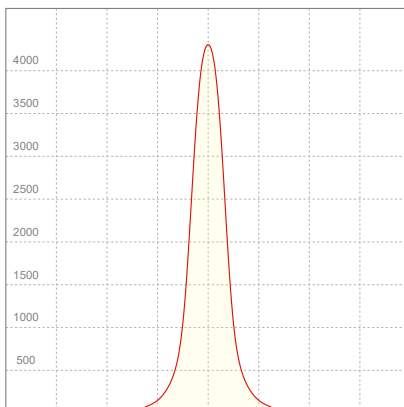
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,8°	62,7°	100°	98,0%	91,5%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4297lx	1074lx	477lx	269lx	172lx	76lx	43lx	19lx	11lx	7lx	5lx	3lx	2lx
Footcand.	399fcd	100fcd	44fcd	25fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	2,9m	4,4m	5,9m	8,8m	11,8m	14,7m	17,6m	23,5m	29,4m
Beam wid.	1,9ft	3,9ft	5,8ft	7,7ft	9,6ft	14,5ft	19,3ft	28,9ft	38,6ft	48,2ft	57,9ft	77,2ft	96,5ft

## LINEAR DISTRIBUTION DIAGRAM

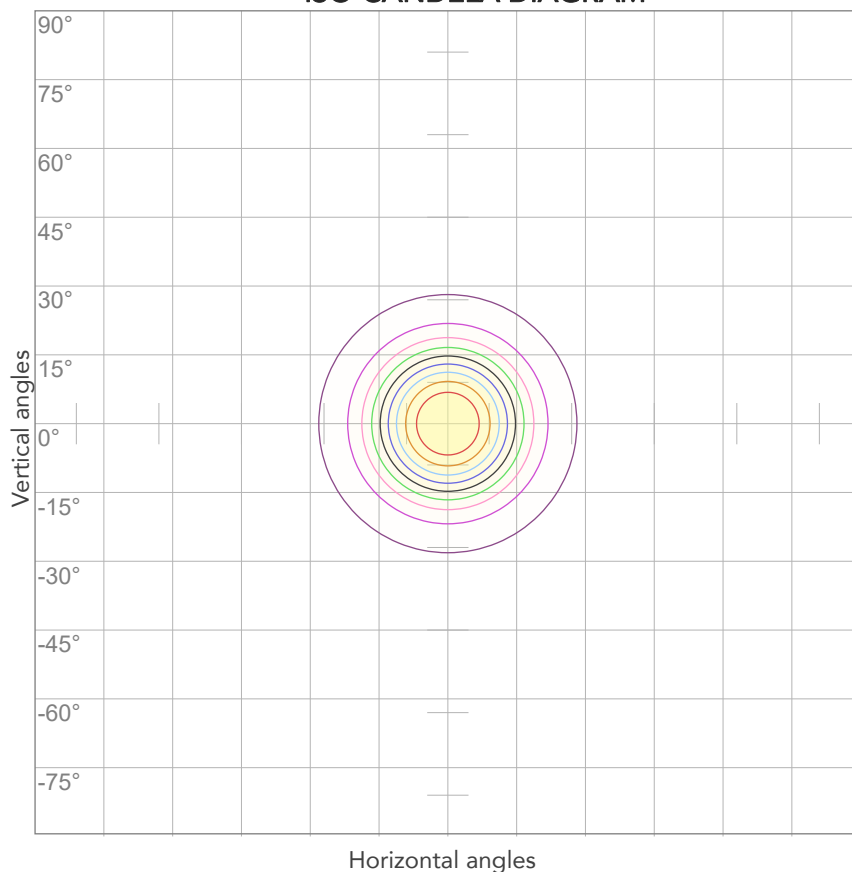


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	0,216A	42,2W	0,87	44lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



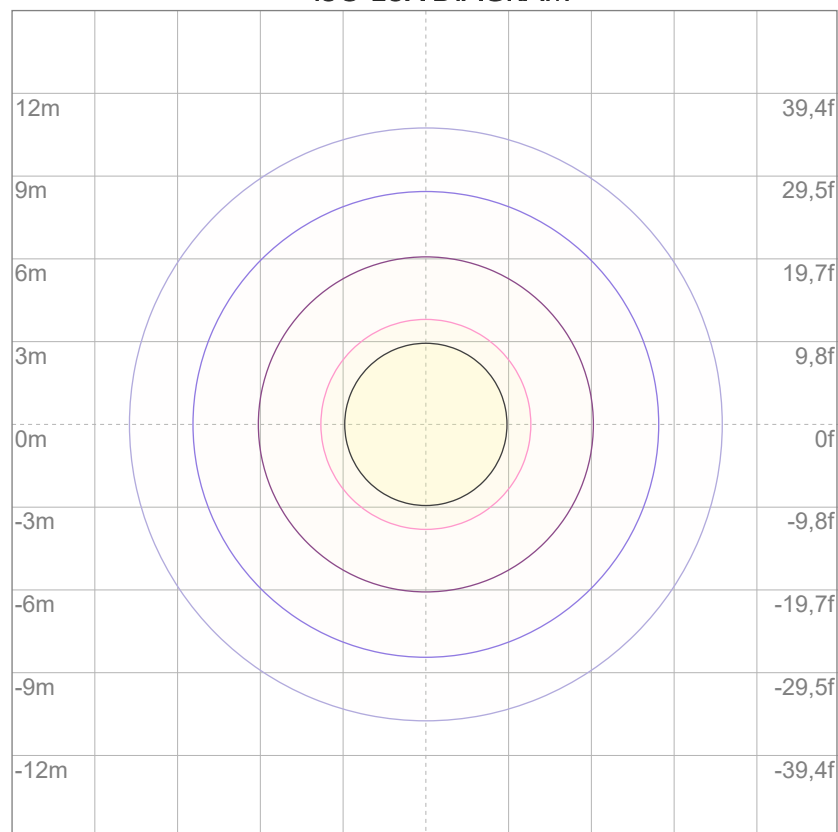
10%	430 cd
20%	859 cd
30%	1289 cd
40%	1719 cd
50%	2149 cd
60%	2578 cd
70%	3008 cd
80%	3438 cd

### Conditions:

Number of c-planes: 2

Candela at center: 4297 cd

## ISO LUX DIAGRAM



3%	1,29 lx
5%	2,15 lx
10%	4,30 lx
30%	12,9 lx
50%	21,5 lx

### Conditions:

Number of c-planes: 2

Lux at center: 43,0 lx

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



Total lumen output:

2305 lm

Peak candela output:

5553 cd

Light quality:

CRI: 90,4

Color temperature:

2795 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Medium Lens

Target:

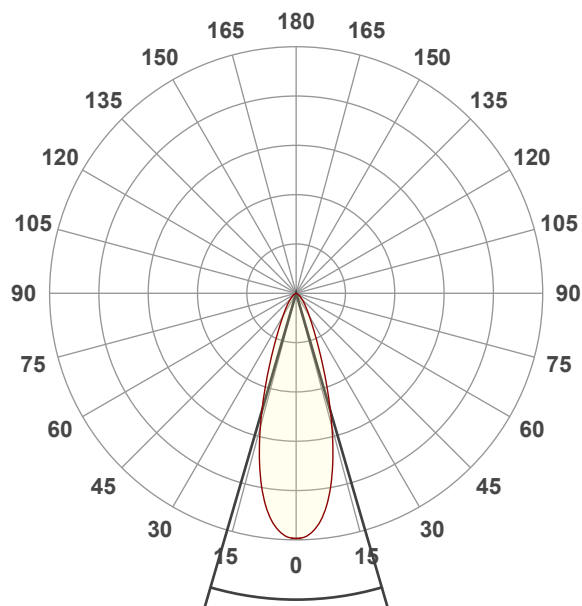
2800K

Operator:

Salvatore Giglio

Date and time:

21/11/2023 12:21:21

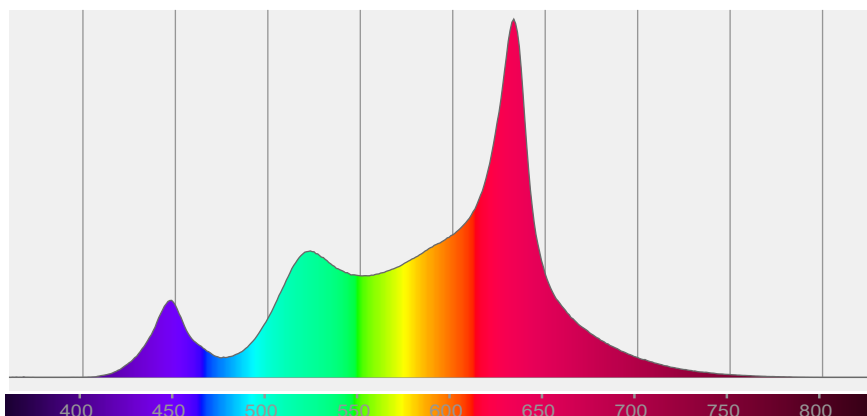


Beam angle 50%: 32,5°

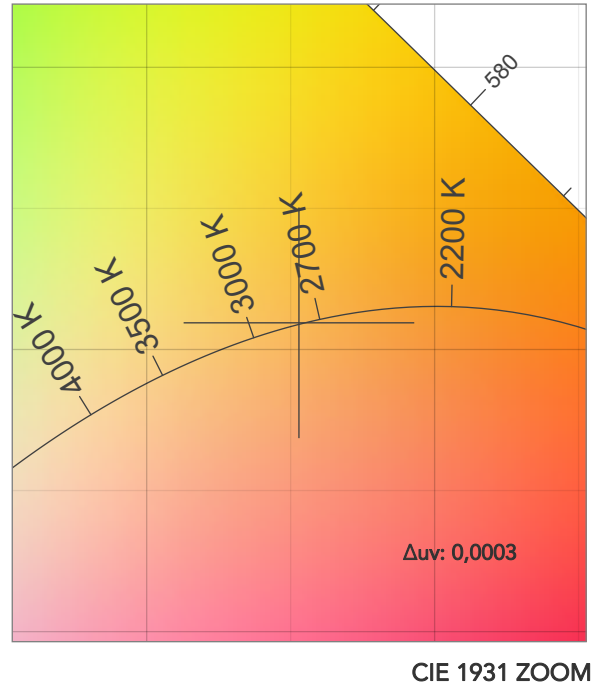
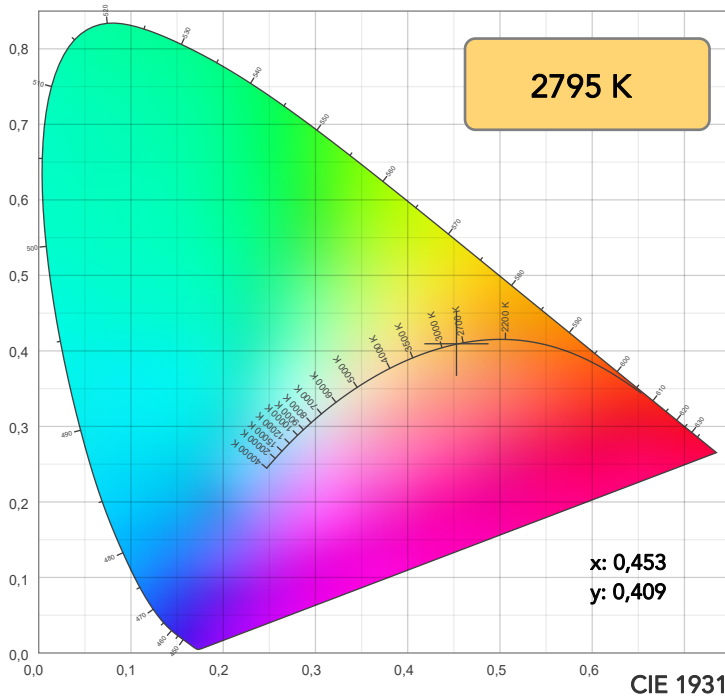
Field angle 10%: 61,8°

Cut off angle 2.5%: 97°

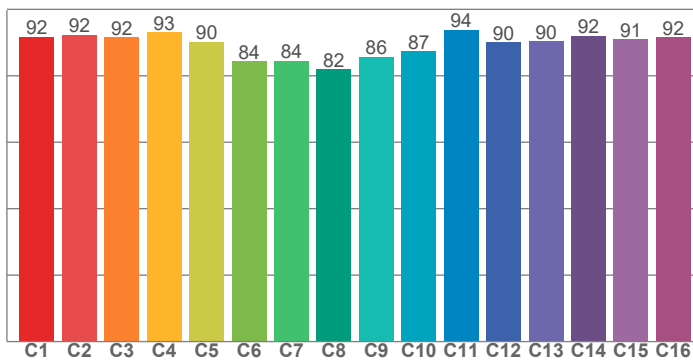
**Spectra**



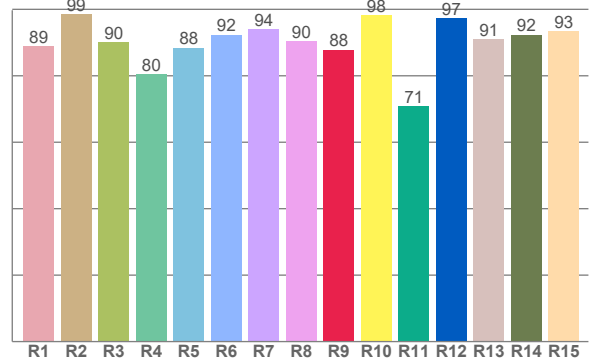
## COLOR DETAILS



TM30: 90,0



CRI: 90,4 (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
88,9	98,5	90,1	80,5	88,4	92,3	94,1	90,5	87,8	98,2	70,8	97,3	91,0	92,4	93,5

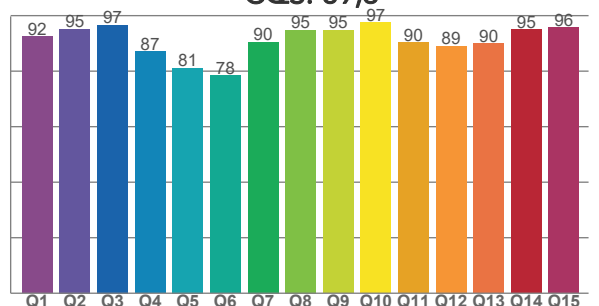
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,8	92,3	91,6	93,0	90,3	84,3	84,5	82,0	85,7	87,4	93,8	90,1	90,4	92,1	90,9	91,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,4	95,1	96,7	87,1	81,1	78,4	90,5	94,8	94,7	97,5	90,2	89,0	90,0	95,0	95,8

CQS: 89,3



## COLOR PARAMETERS

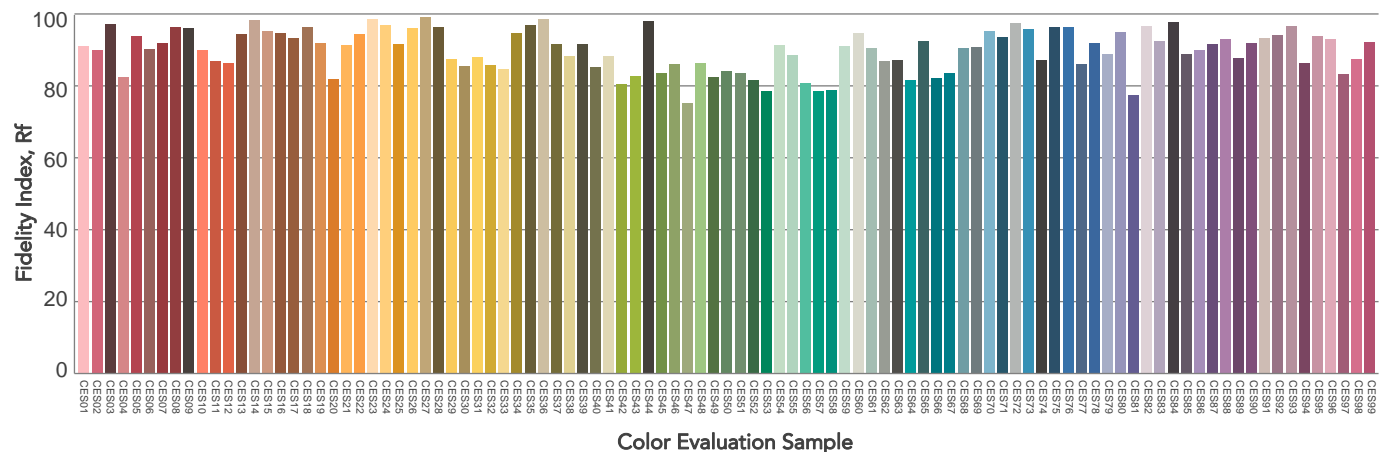
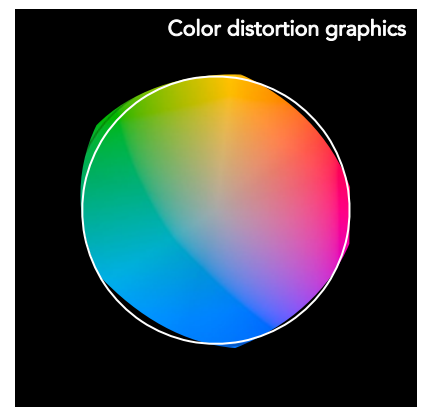
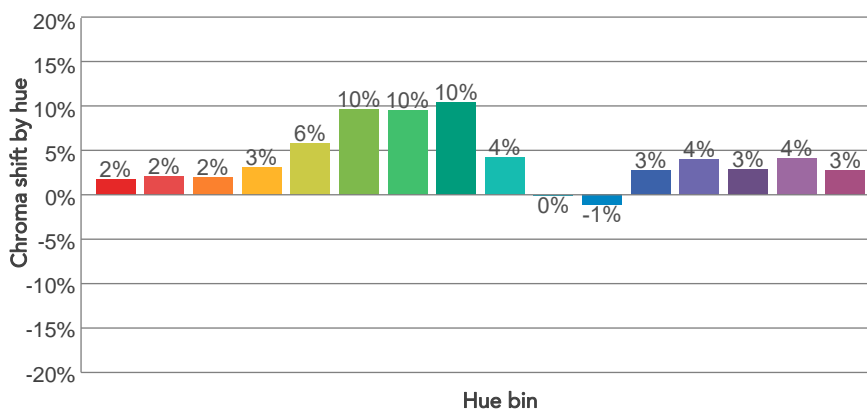
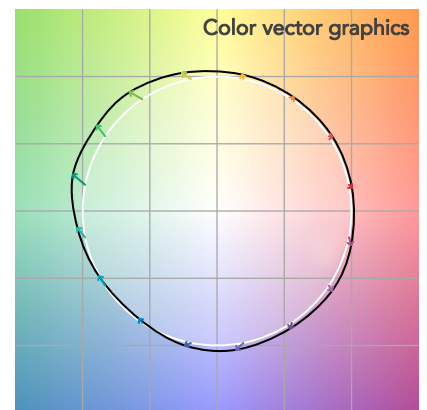
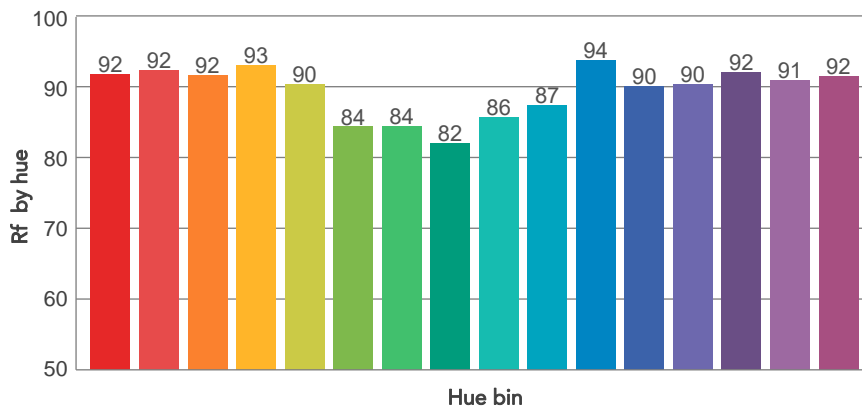
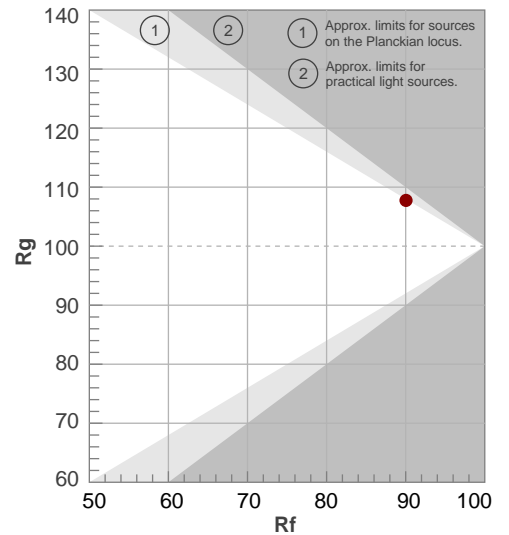
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
2795 K	90,4	87,8	90,0	107,8	89,3	75	0,453	0,409	0,0003

# TM30 DETAILS

**Rf 90,0**  
Fidelity index Rf

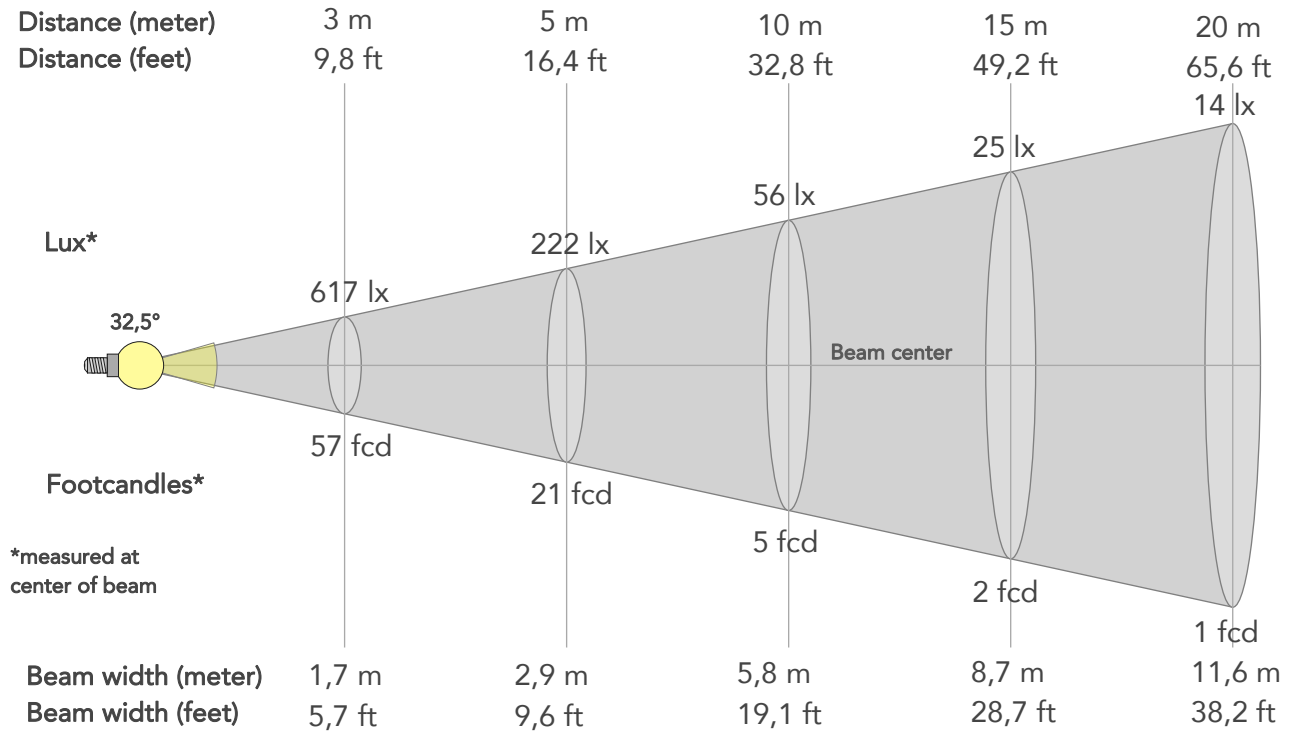
**Rg 107,8**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	2%	-3%
2	92	2%	-2%
3	92	2%	0%
4	93	3%	1%
5	90	6%	5%
6	84	10%	5%
7	84	10%	-3%
8	82	10%	-6%
9	86	4%	-8%
10	87	0%	-8%
11	94	-1%	-4%
12	90	3%	-4%
13	90	4%	-6%
14	92	3%	-3%
15	91	4%	-2%
16	92	3%	-5%



# BEAM DETAILS

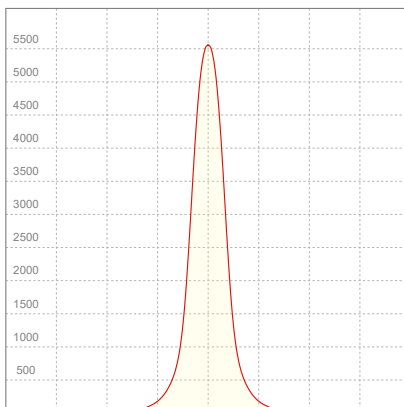
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,5°	61,8°	97°	98,6%	92,5%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	5553lx	1388lx	617lx	347lx	222lx	99lx	56lx	25lx	14lx	9lx	6lx	3lx	2lx
Footcand.	516fcd	129fcd	57fcd	32fcd	21fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,7m	2,3m	2,9m	4,4m	5,8m	8,7m	11,6m	14,6m	17,5m	23,3m	29,1m
Beam wid.	1,9ft	3,8ft	5,7ft	7,6ft	9,6ft	14,3ft	19,1ft	28,7ft	38,2ft	47,8ft	57,3ft	76,4ft	95,5ft

## LINEAR DISTRIBUTION DIAGRAM

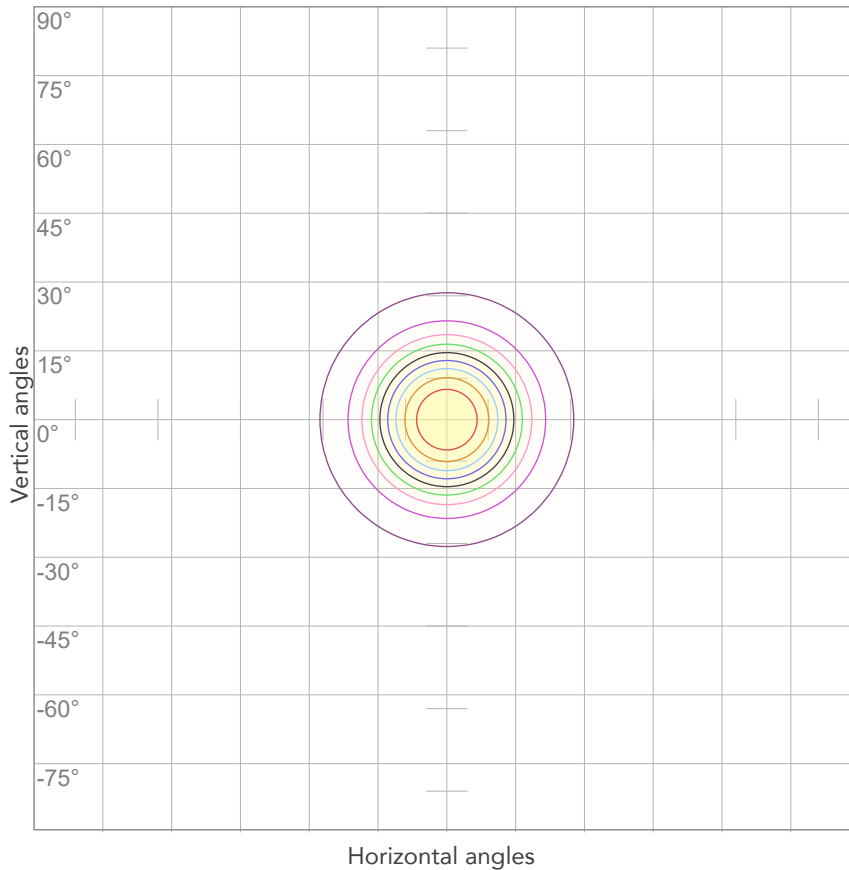


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	0,276A	55,7W	0,9	41lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



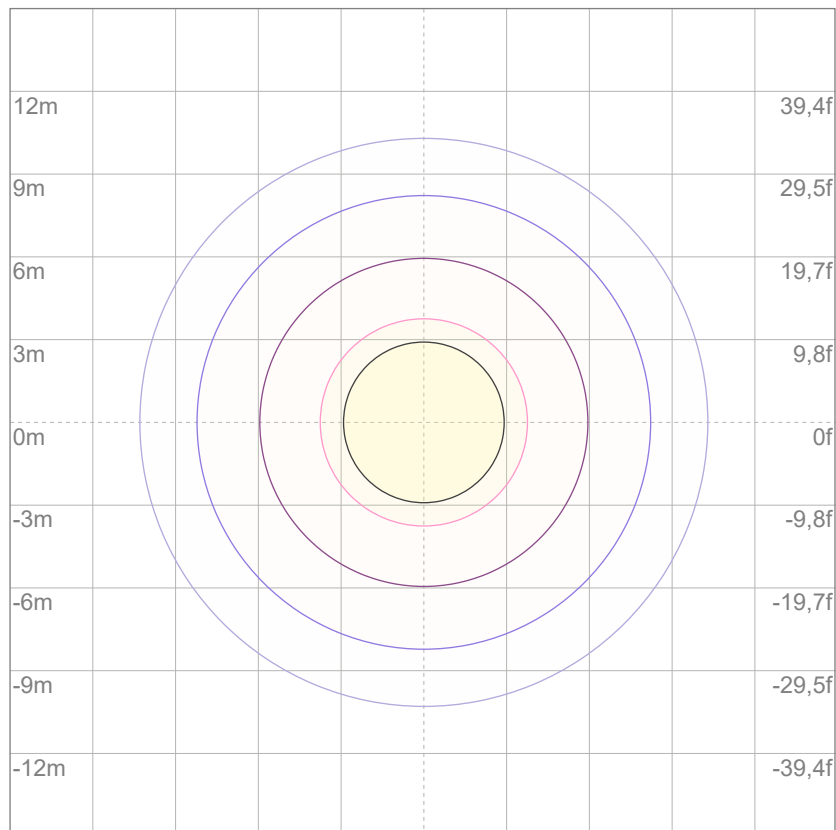
10%	555 cd
20%	1111 cd
30%	1666 cd
40%	2221 cd
50%	2777 cd
60%	3332 cd
70%	3887 cd
80%	4443 cd

### Conditions:

Number of c-planes: 2

Candela at center: 5553 cd

## ISO LUX DIAGRAM



3%	1,67 lx
5%	2,78 lx
10%	5,55 lx
30%	16,7 lx
50%	27,8 lx

### Conditions:

Number of c-planes: 2

Lux at center: 55,5 lx

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





Total lumen output:

2309 lm

Peak candela output:

5501 cd

Light quality:

CRI: 92,5

Color temperature:

3222 K

PRODUCT NAME:

ECLPARIPMFC

MEASURAMENT CONDITIONS:

Beam angle:

Medium Lens

Target:

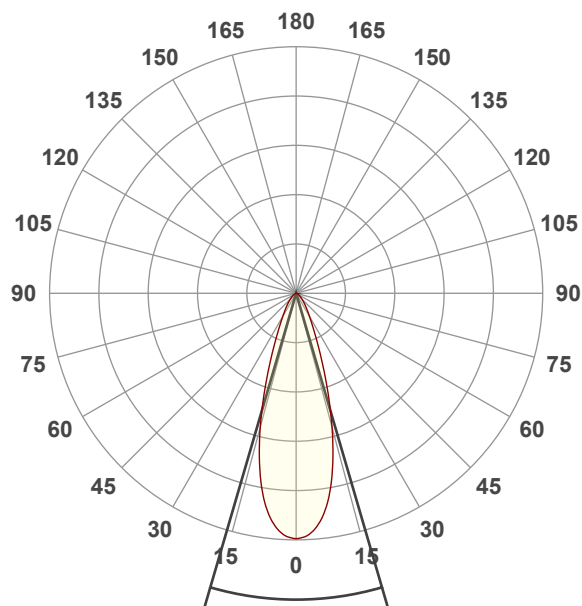
3200K

Operator:

Salvatore Giglio

Date and time:

21/11/2023 12:19:13

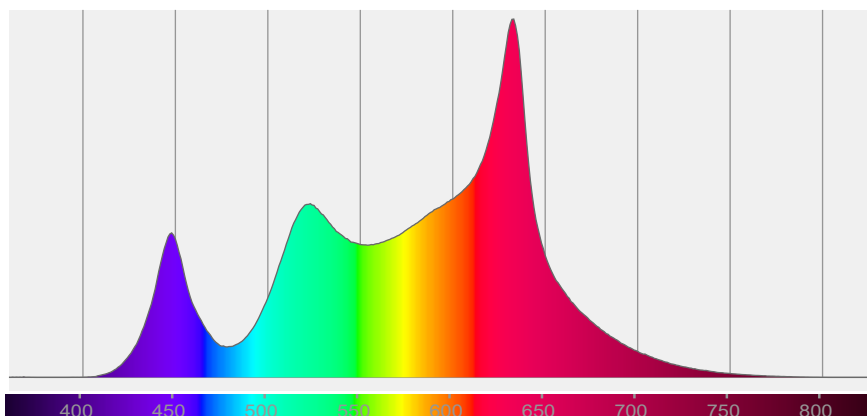


Beam angle 50%: 32,5°

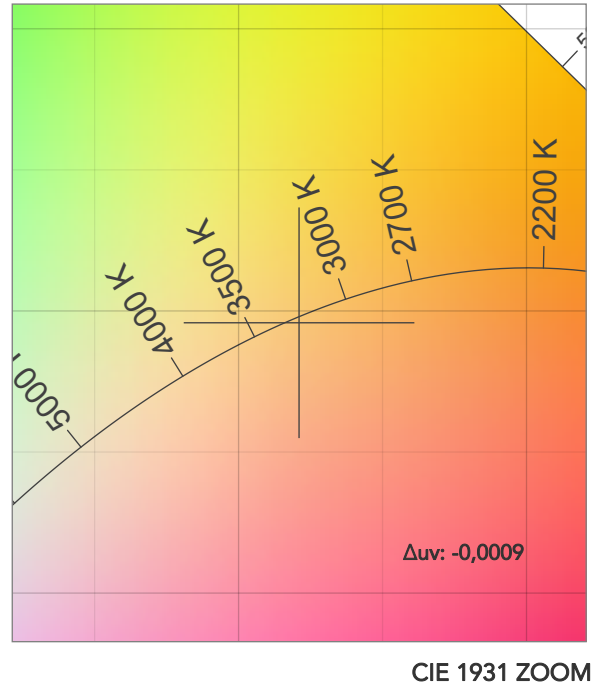
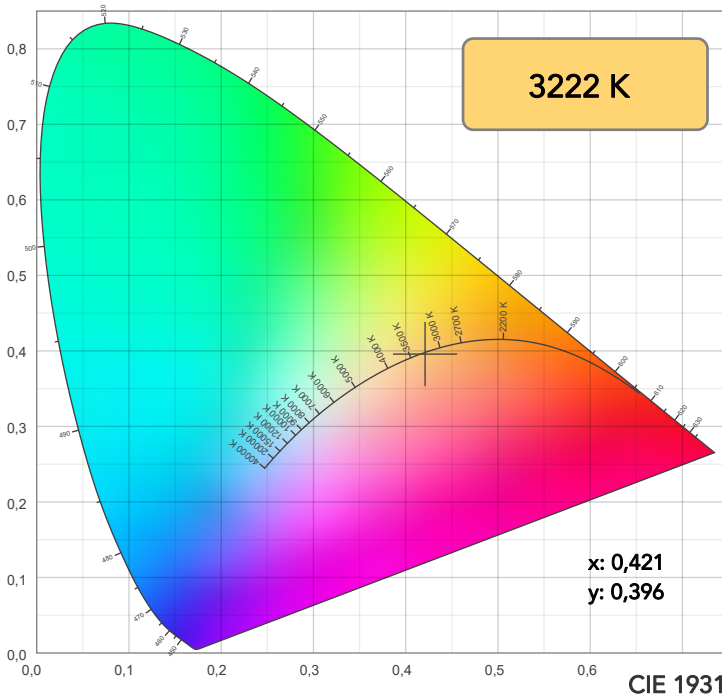
Field angle 10%: 62,1°

Cut off angle 2.5%: 98,2°

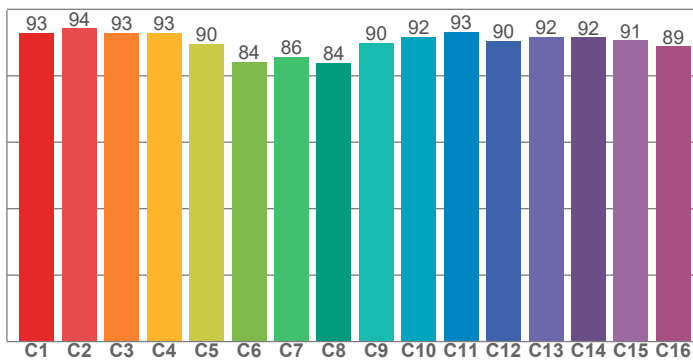
Spectra



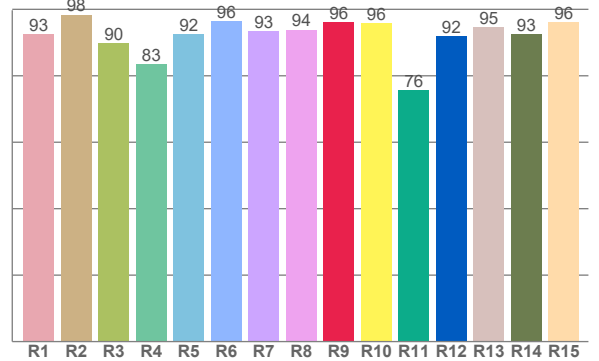
# COLOR DETAILS



TM30: 90,8



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
92,5	98,3	89,7	83,5	92,5	96,5	93,5	93,9	96,2	95,8	75,7	91,9	94,6	92,6	96,2

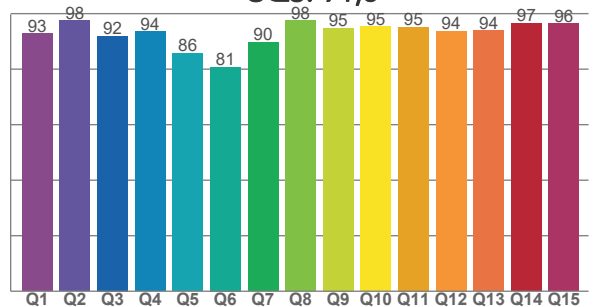
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,0	94,2	92,9	92,9	89,7	84,2	85,6	83,8	89,9	91,6	93,2	90,5	91,7	91,6	90,7	88,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,9	97,5	91,9	93,5	85,7	80,8	89,7	97,5	94,8	95,3	95,3	93,7	93,9	96,5	96,4

CQS: 91,5



## COLOR PARAMETERS

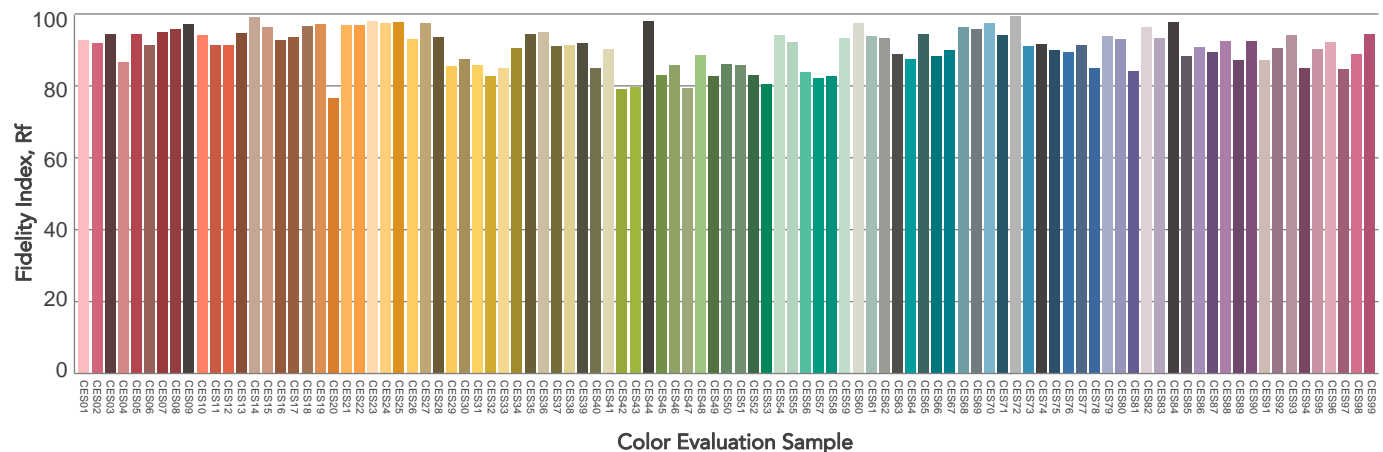
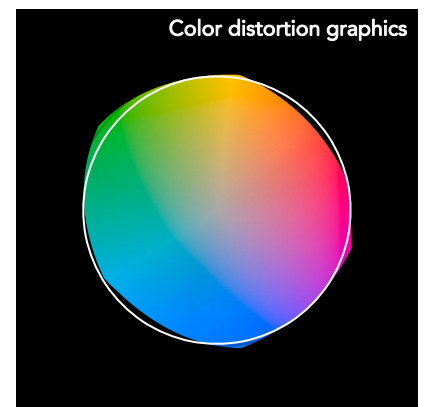
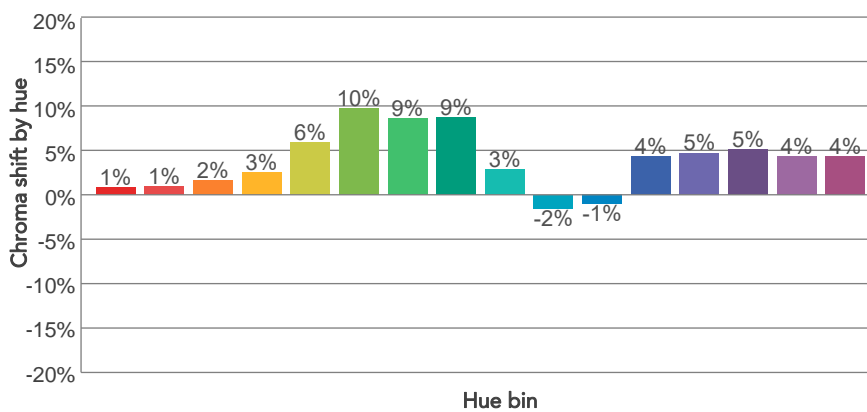
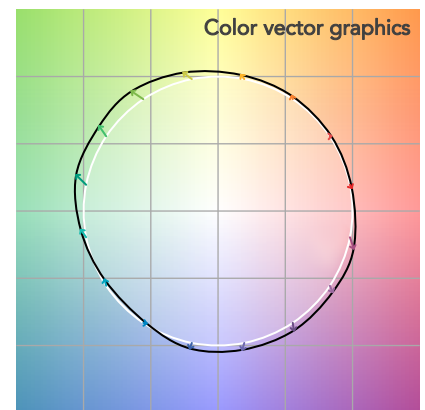
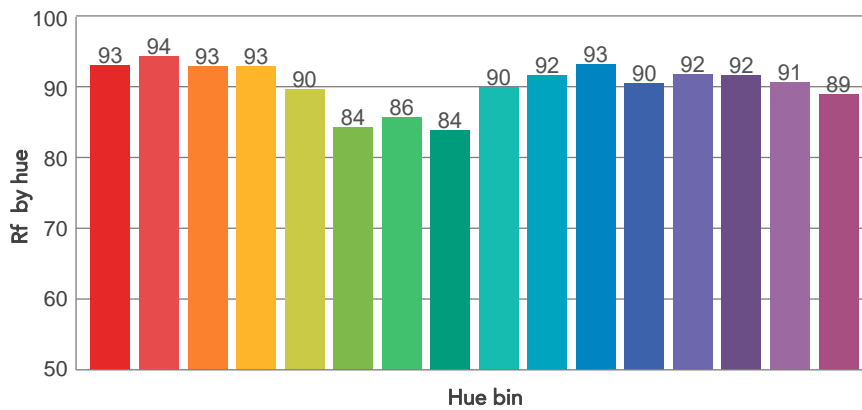
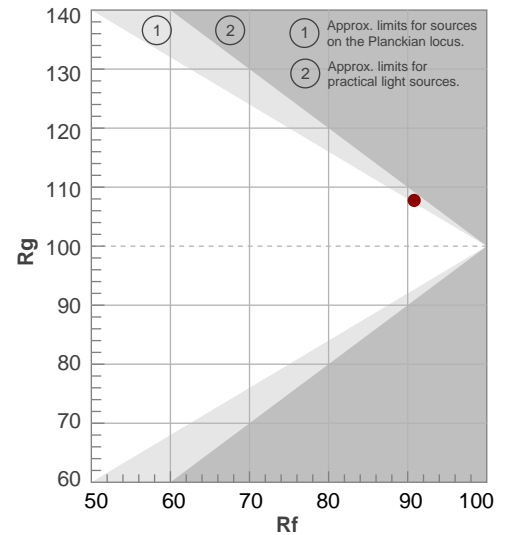
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3222 K	92,5	96,2	90,8	107,8	91,5	78	0,421	0,396	-0,0009

# TM30 DETAILS

**Rf 90,8**  
Fidelity index Rf

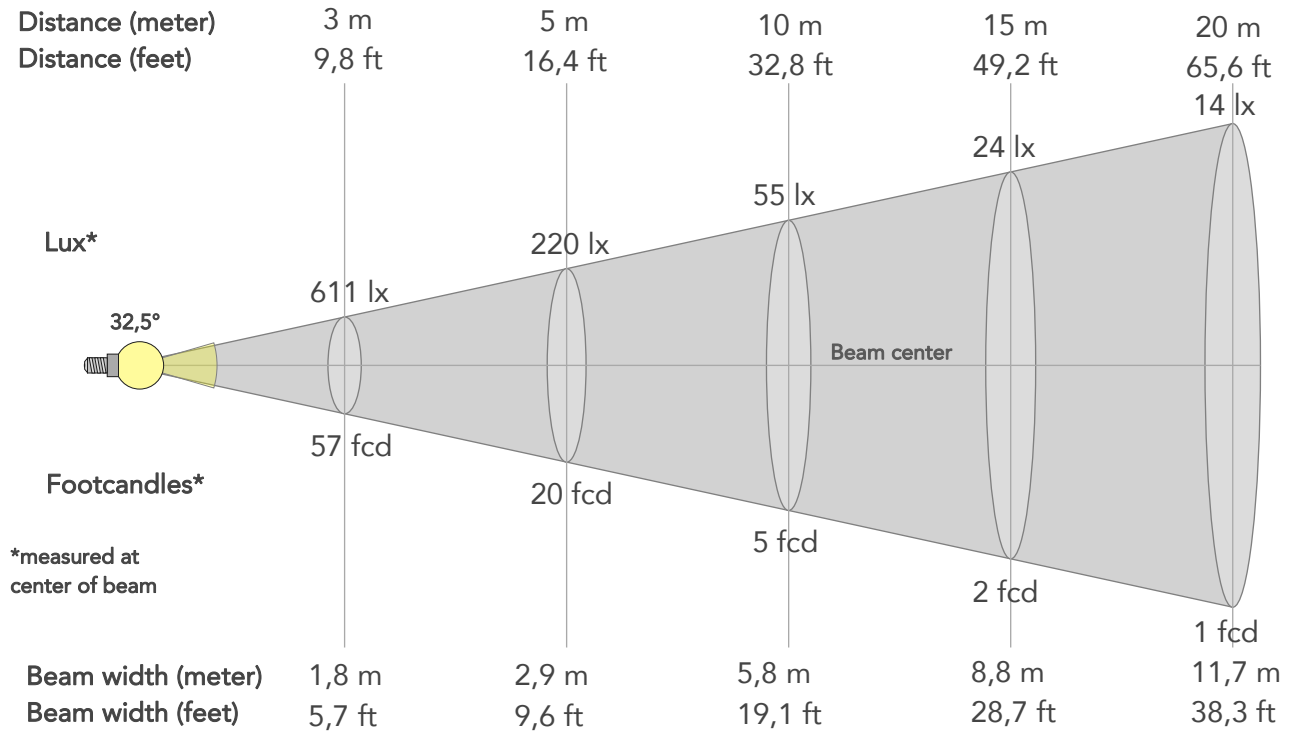
**Rg 107,8**  
Gammut index

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



# BEAM DETAILS

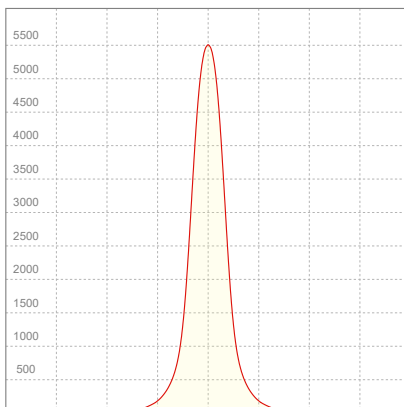
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,5°	62,1°	98,2°	98,3%	92,1%



## 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	5501lx	1375lx	611lx	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.	0,6m	1,2m	1,8m	2,3m	2,9m	4,4m	5,8m	8,8m	11,7m	14,6m	17,5m	23,4m	29,2m
Beam wid.	1,9ft	3,9ft	5,7ft	7,6ft	9,6ft	14,4ft	19,1ft	28,7ft	38,3ft	47,9ft	57,4ft	76,6ft	95,7ft

## LINEAR DISTRIBUTION DIAGRAM

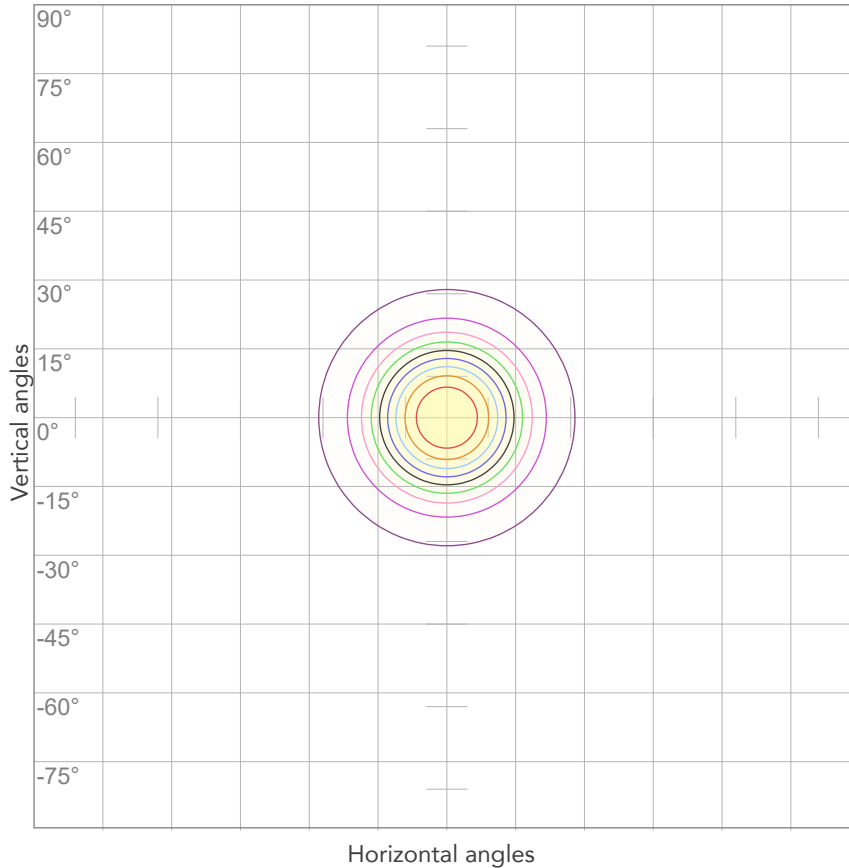


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	0,277A	55,9W	0,9	41lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



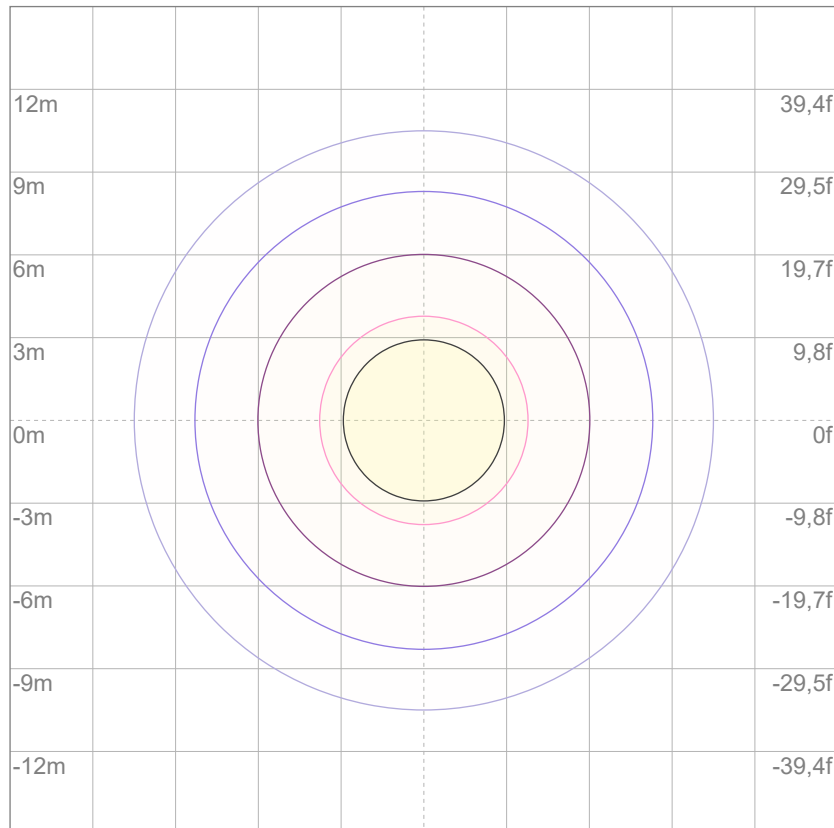
10%	550 cd
20%	1100 cd
30%	1650 cd
40%	2200 cd
50%	2750 cd
60%	3300 cd
70%	3850 cd
80%	4401 cd

### Conditions:

Number of c-planes: 2

Candela at center: 5501 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:

2435 lm

Peak candela output:

5748 cd

Light quality:

CRI: 91,6

Color temperature:

4033 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Medium Lens

Target:

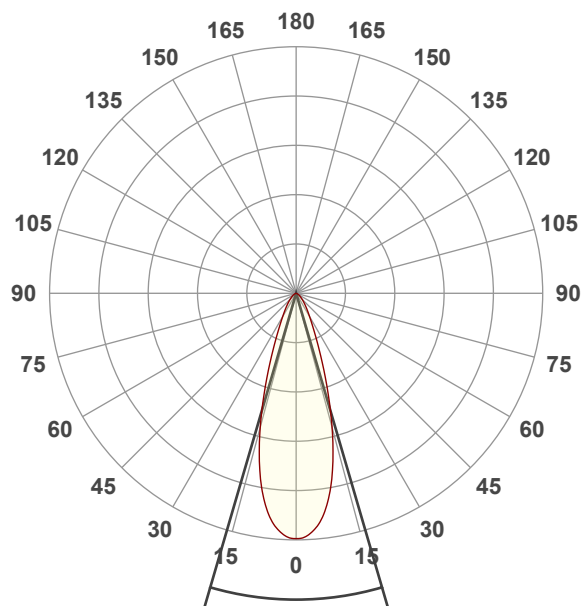
4000K

Operator:

Salvatore Giglio

Date and time:

21/11/2023 12:12:32

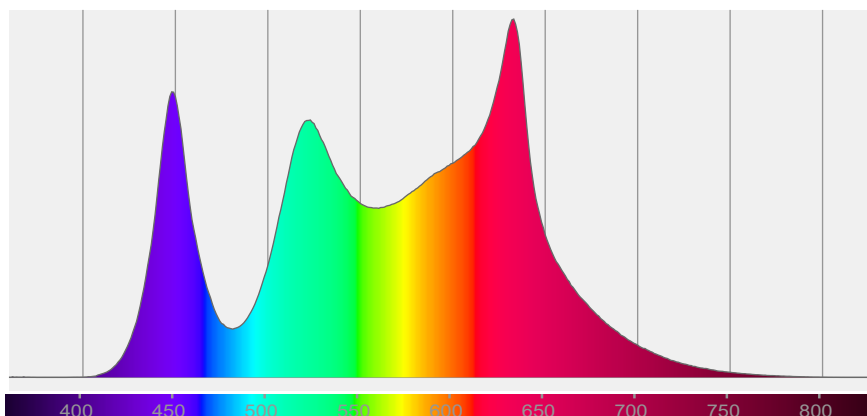


Beam angle 50%: 32,6°

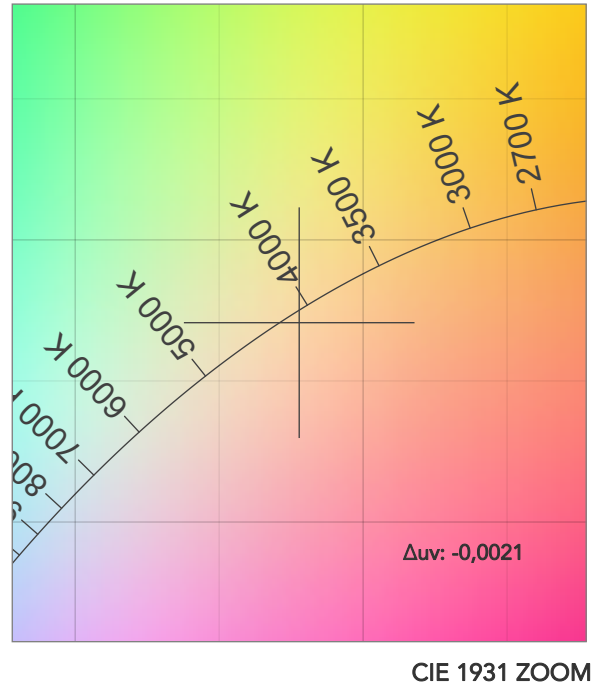
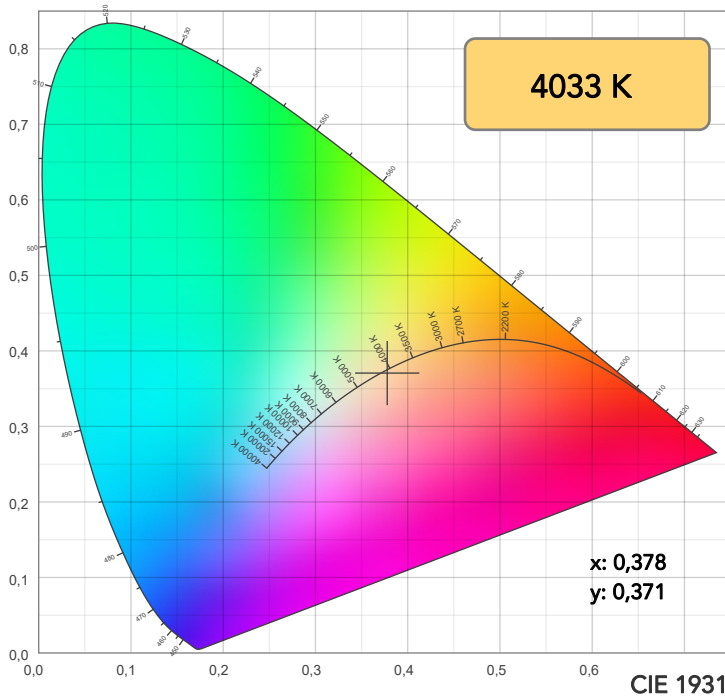
Field angle 10%: 62,2°

Cut off angle 2.5%: 99,9°

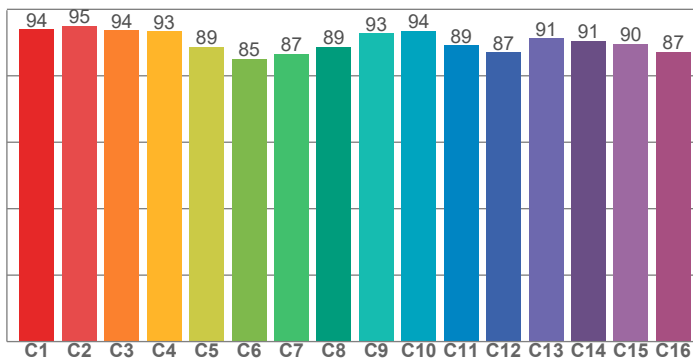
**Spectra**



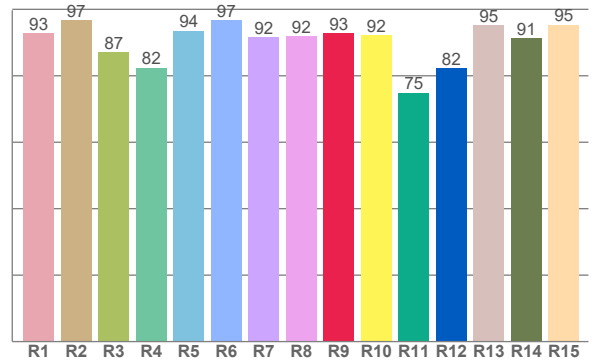
## COLOR DETAILS



TM30: 90,7



CRI: 91,6 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,7	96,8	87,1	82,4	93,5	96,6	91,7	92,0	92,7	92,1	74,9	82,3	95,2	91,4	95,4

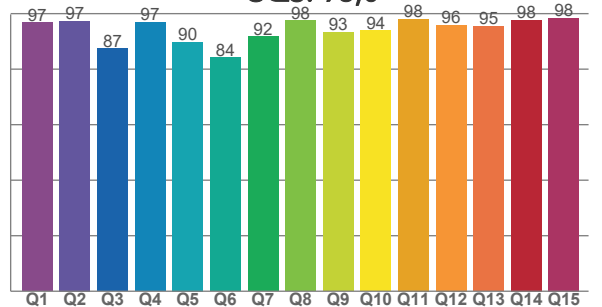
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,0	95,0	93,7	93,4	88,7	85,2	86,6	88,8	92,7	93,5	89,1	87,1	91,3	90,6	89,7	87,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,8	97,3	87,4	96,9	89,8	84,2	91,8	97,6	93,3	93,9	98,1	95,9	95,4	97,7	98,5

CQS: 93,0



## COLOR PARAMETERS

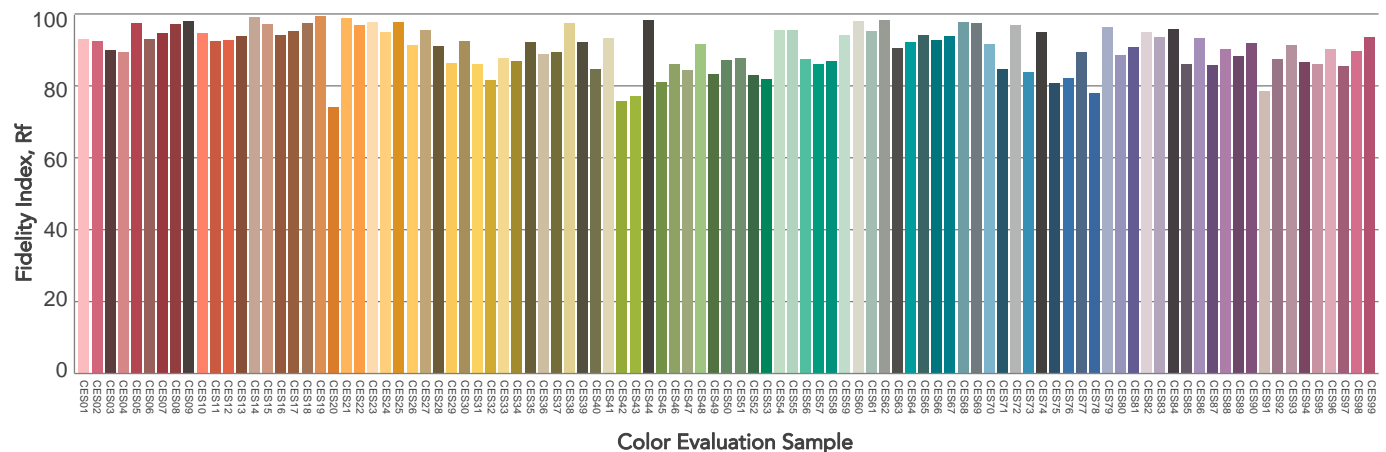
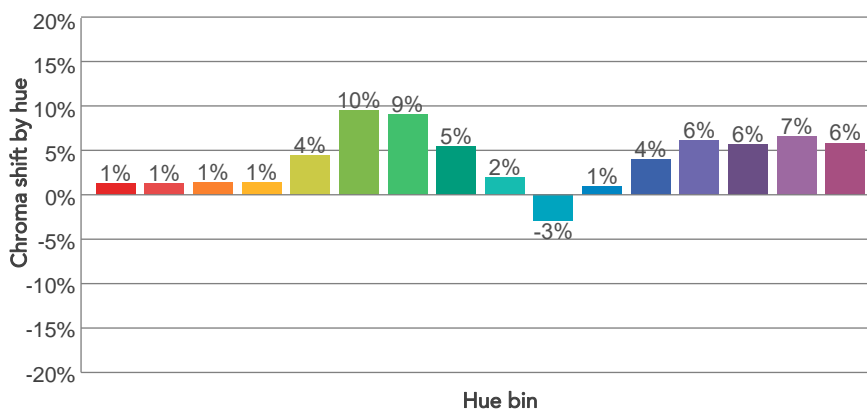
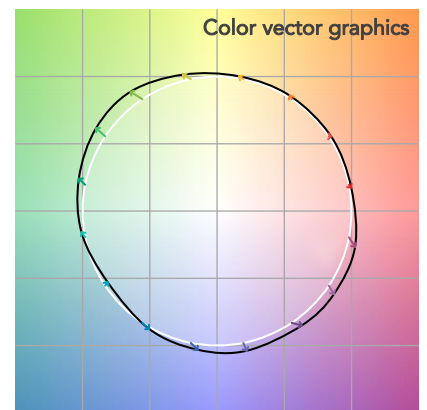
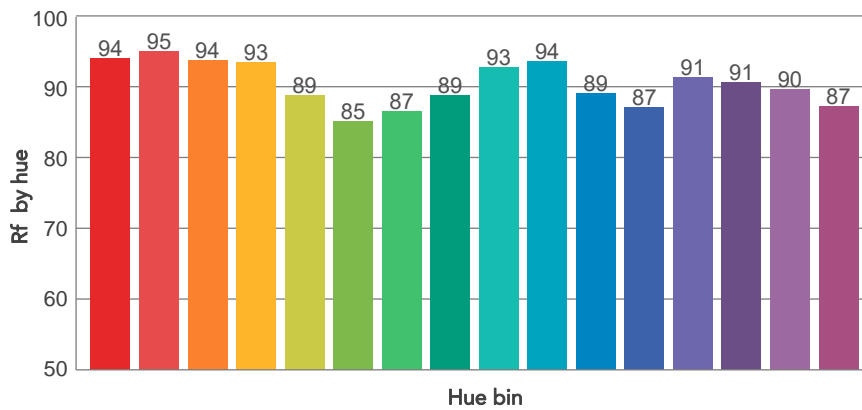
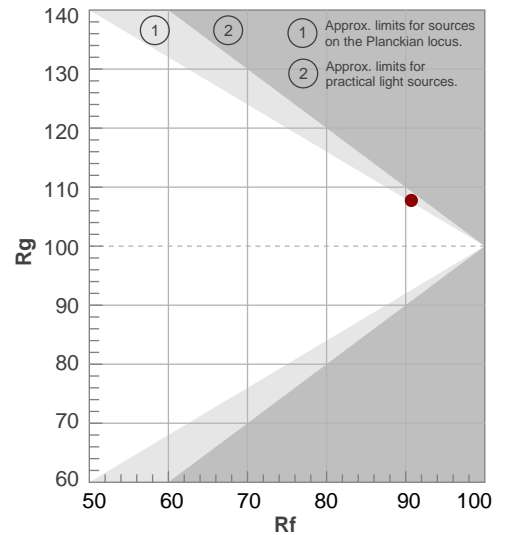
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
4033 K	91,6	92,7	90,7	107,7	93,0	80	0,378	0,371	-0,0021

# TM30 DETAILS

**Rf 90,7**  
Fidelity index Rf

**Rg 107,7**  
Gammut index

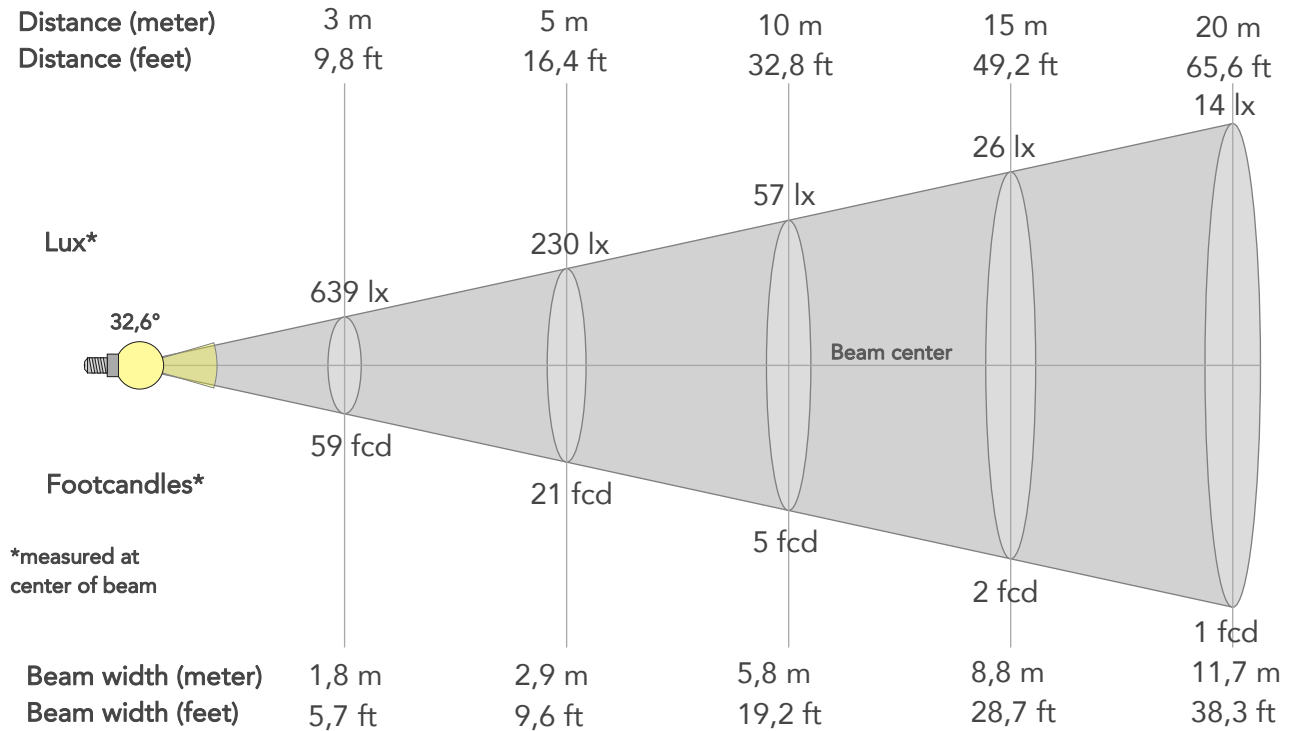
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-2%
2	95	1%	-1%
3	94	1%	3%
4	93	1%	3%
5	89	4%	5%
6	85	10%	4%
7	87	9%	-1%
8	89	5%	-4%
9	93	2%	-4%
10	94	-3%	-1%
11	89	1%	7%
12	87	4%	6%
13	91	6%	1%
14	91	6%	5%
15	90	7%	-3%
16	87	6%	-6%





# BEAM DETAILS

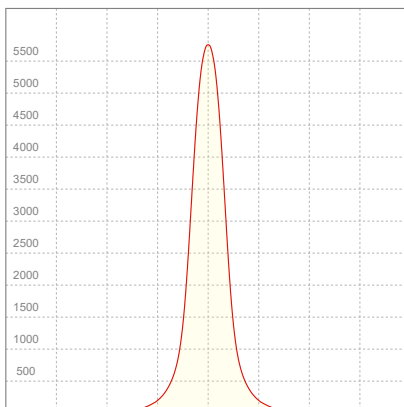
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,6°	62,2°	99,9°	98,1%	91,5%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	5748lx	1437lx	639lx	359lx	230lx	102lx	57lx	26lx	14lx	9lx	6lx	4lx	2lx
Footcand.	534fcd	134fcd	59fcd	33fcd	21fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,3m	2,9m	4,4m	5,8m	8,8m	11,7m	14,6m	17,5m	23,4m	29,2m
Beam wid.	1,9ft	3,9ft	5,7ft	7,7ft	9,6ft	14,4ft	19,2ft	28,7ft	38,3ft	47,9ft	57,5ft	76,6ft	95,8ft

## LINEAR DISTRIBUTION DIAGRAM

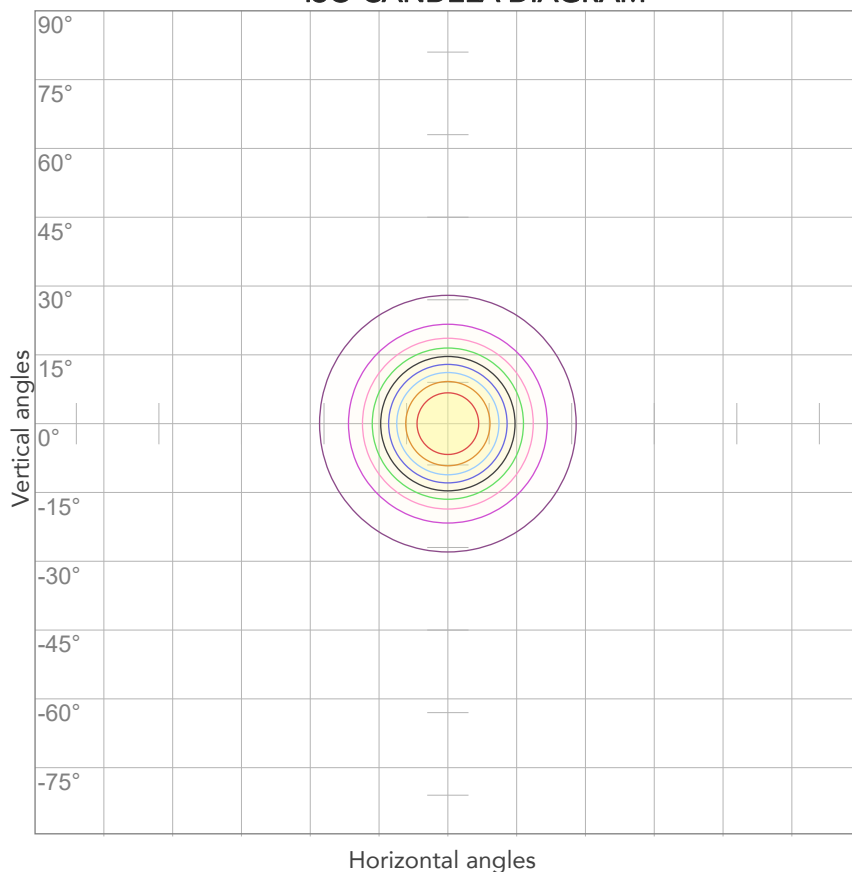


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
223V	0,298A	60,3W	0,91	40lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



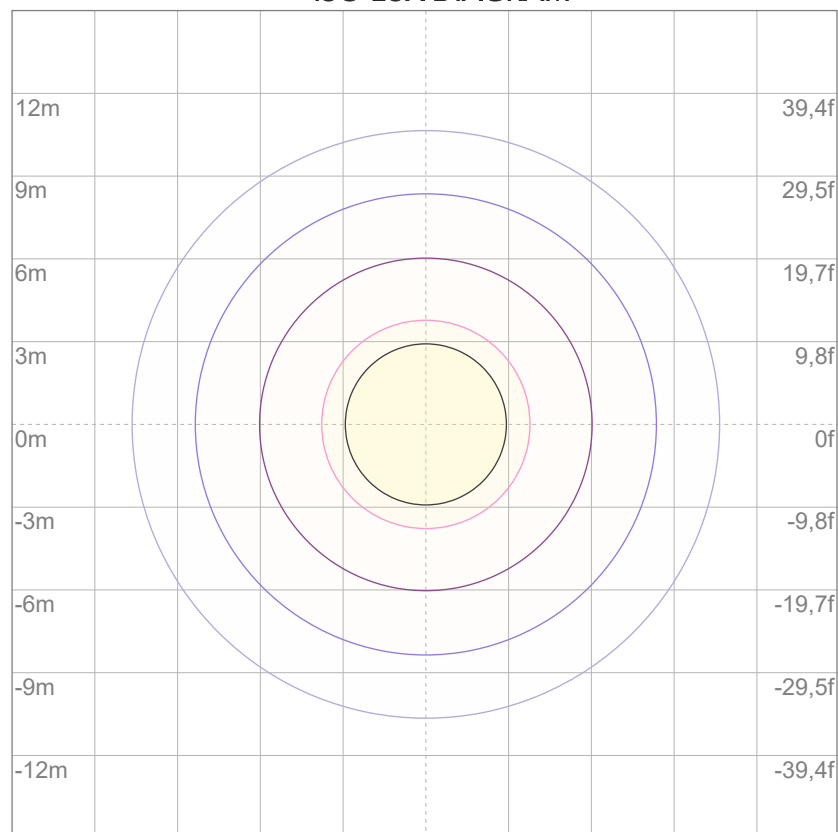
10%	575 cd
20%	1150 cd
30%	1724 cd
40%	2299 cd
50%	2874 cd
60%	3449 cd
70%	4024 cd
80%	4599 cd

### Conditions:

Number of c-planes: 2

Candela at center: 5748 cd

## ISO LUX DIAGRAM



3%	1,72 lx
5%	2,87 lx
10%	5,75 lx
30%	17,2 lx
50%	28,7 lx

### Conditions:

Number of c-planes: 2

Lux at center: 57,5 lx

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



Total lumen output:

2652 lm

Peak candela output:

6198 cd

Light quality:

CRI: 89,0

Color temperature:

5591 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Medium Lens

Target:

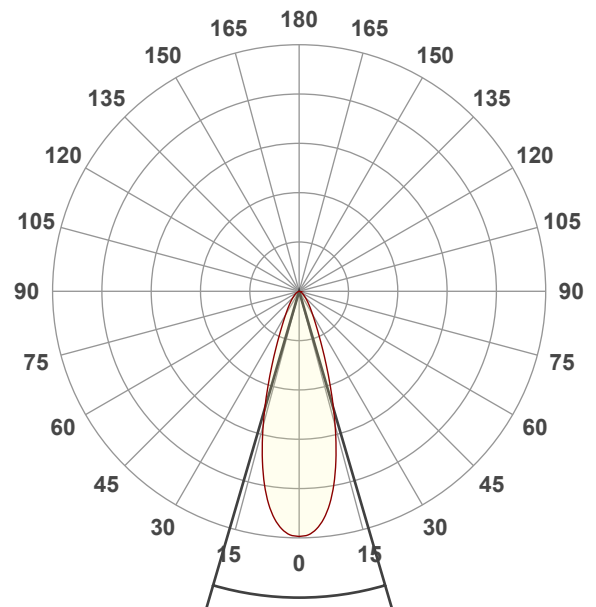
5600K

Operator:

Salvatore Giglio

Date and time:

21/11/2023 12:02:09

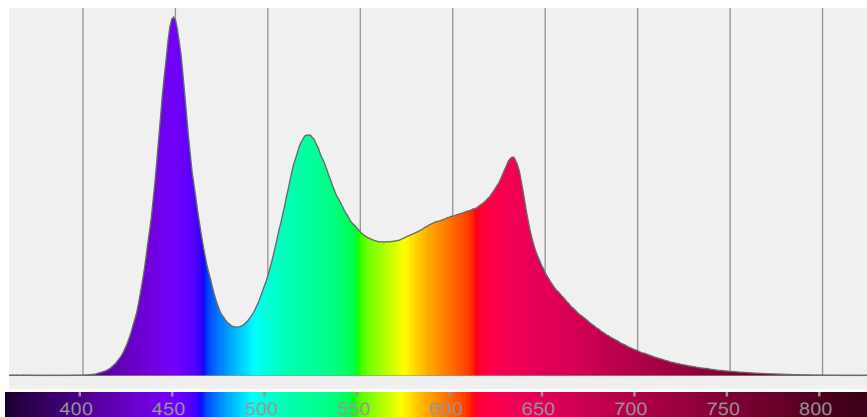


Beam angle 50%: 32,6°

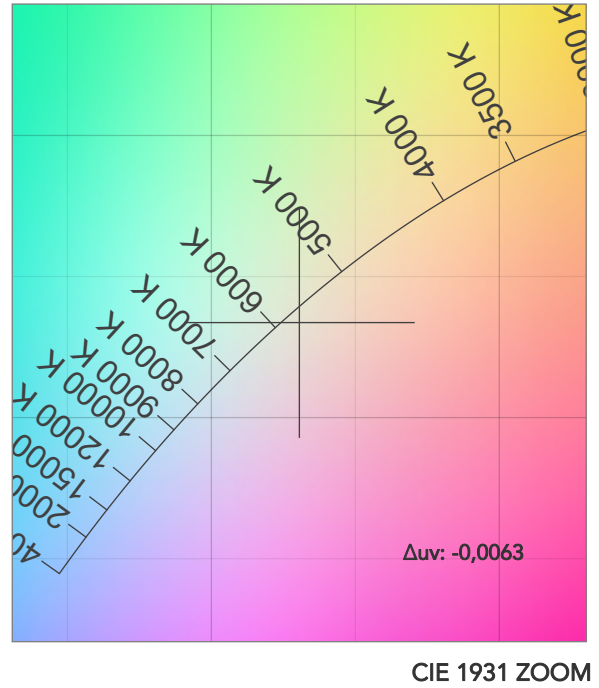
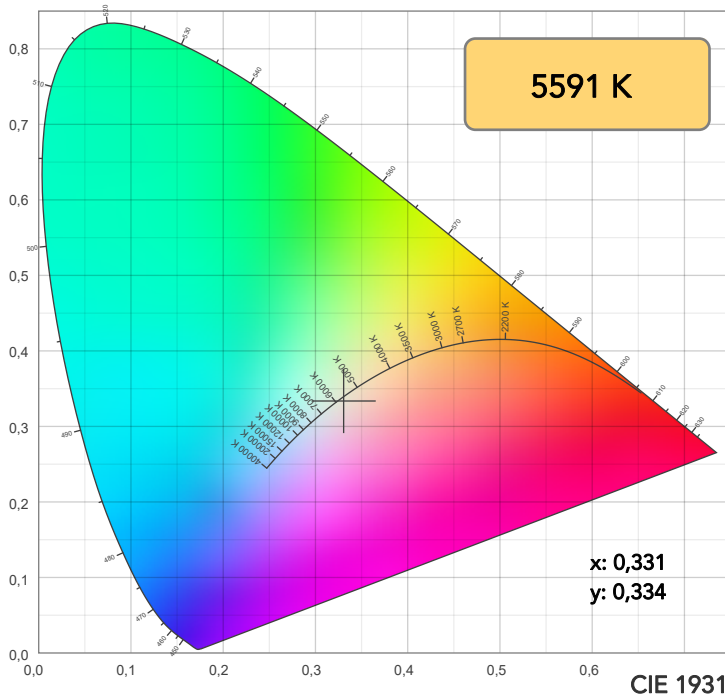
Field angle 10%: 62,5°

Cut off angle 2.5%: 100,7°

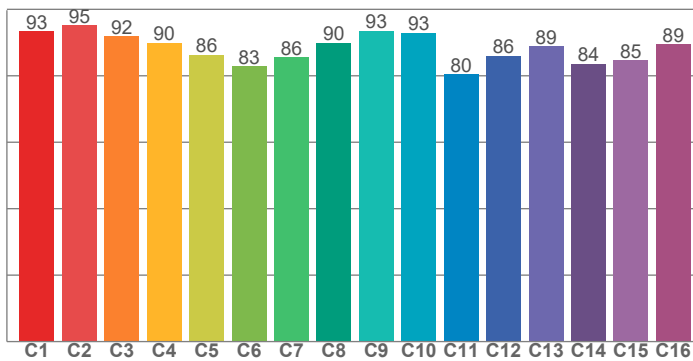
**Spectra**



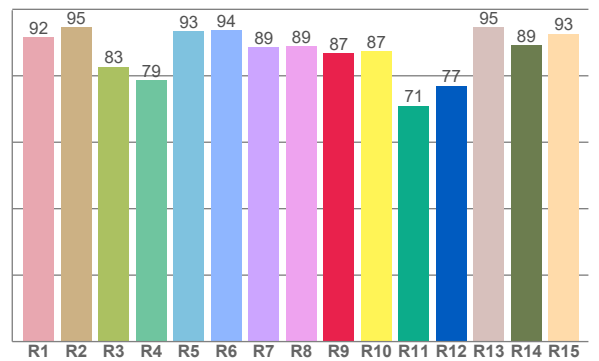
# COLOR DETAILS



TM30: 88,4



CRI: 89,0 (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
91,7	94,6	82,8	78,6	93,3	93,8	88,7	89,0	86,7	87,3	71,0	77,0	94,5	89,1	92,6

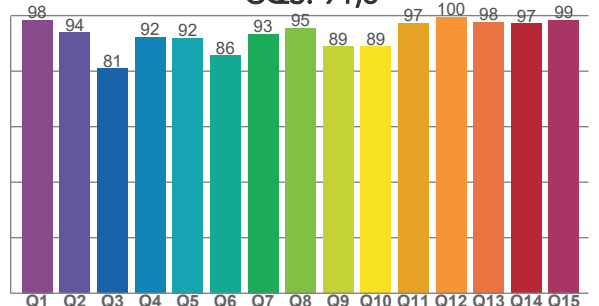
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,4	95,2	91,9	89,9	86,3	82,8	85,5	89,9	93,4	92,9	80,4	86,0	88,9	83,6	84,6	89,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,4	93,9	80,9	92,2	91,9	85,6	93,3	95,5	88,8	88,9	97,2	99,5	97,8	97,2	98,5

CQS: 91,5



## COLOR PARAMETERS

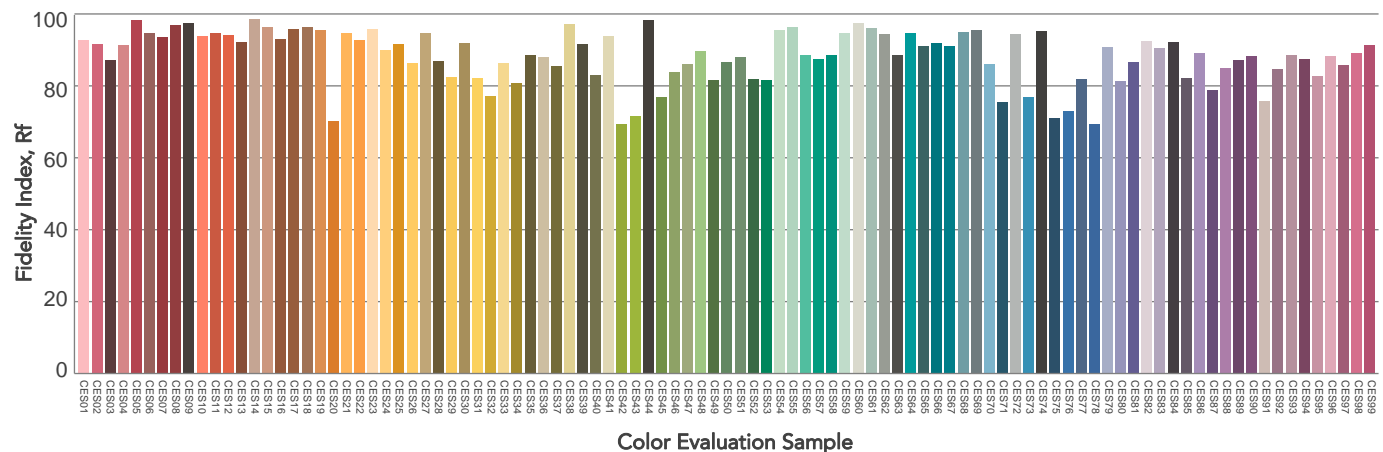
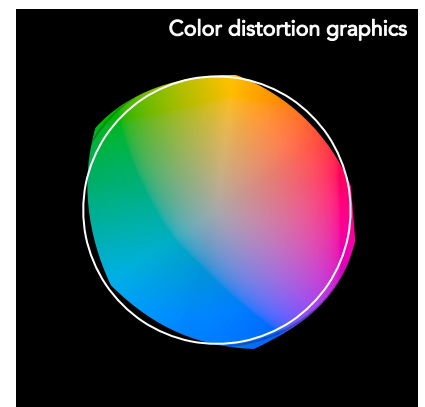
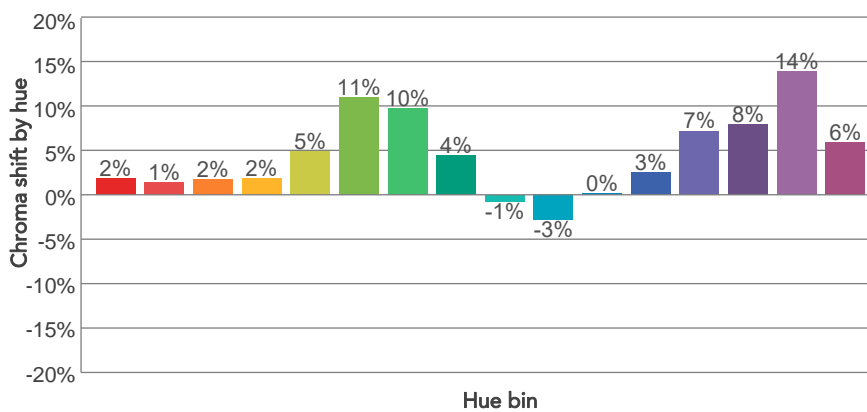
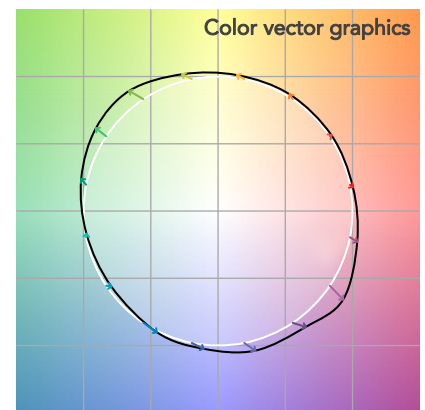
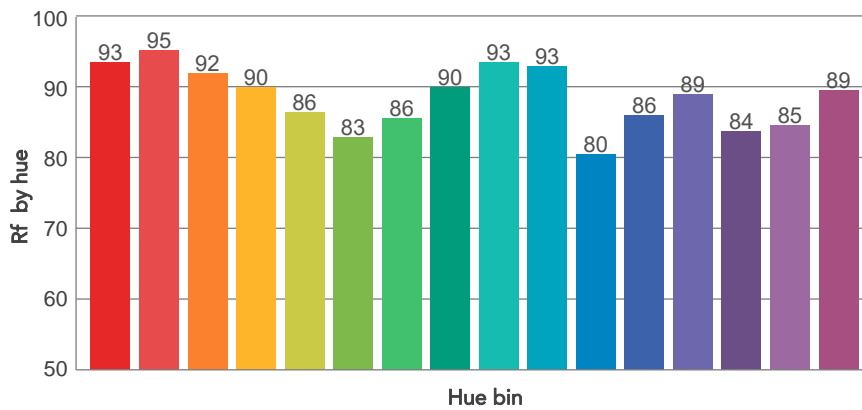
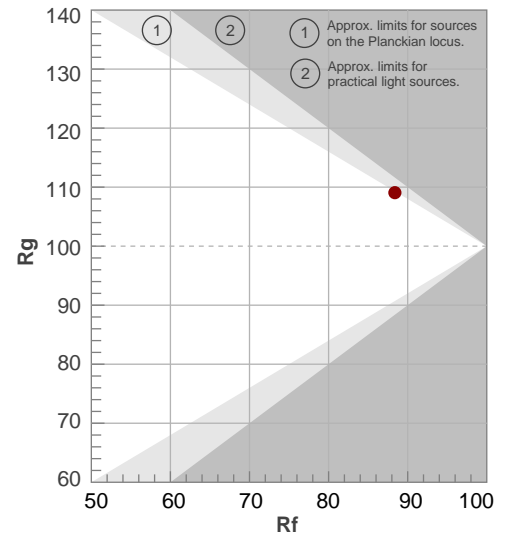
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
5591 K	89,0	86,7	88,4	109,1	91,5	84	0,331	0,334	-0,0063

# TM30 DETAILS

**Rf 88,4**  
Fidelity index Rf

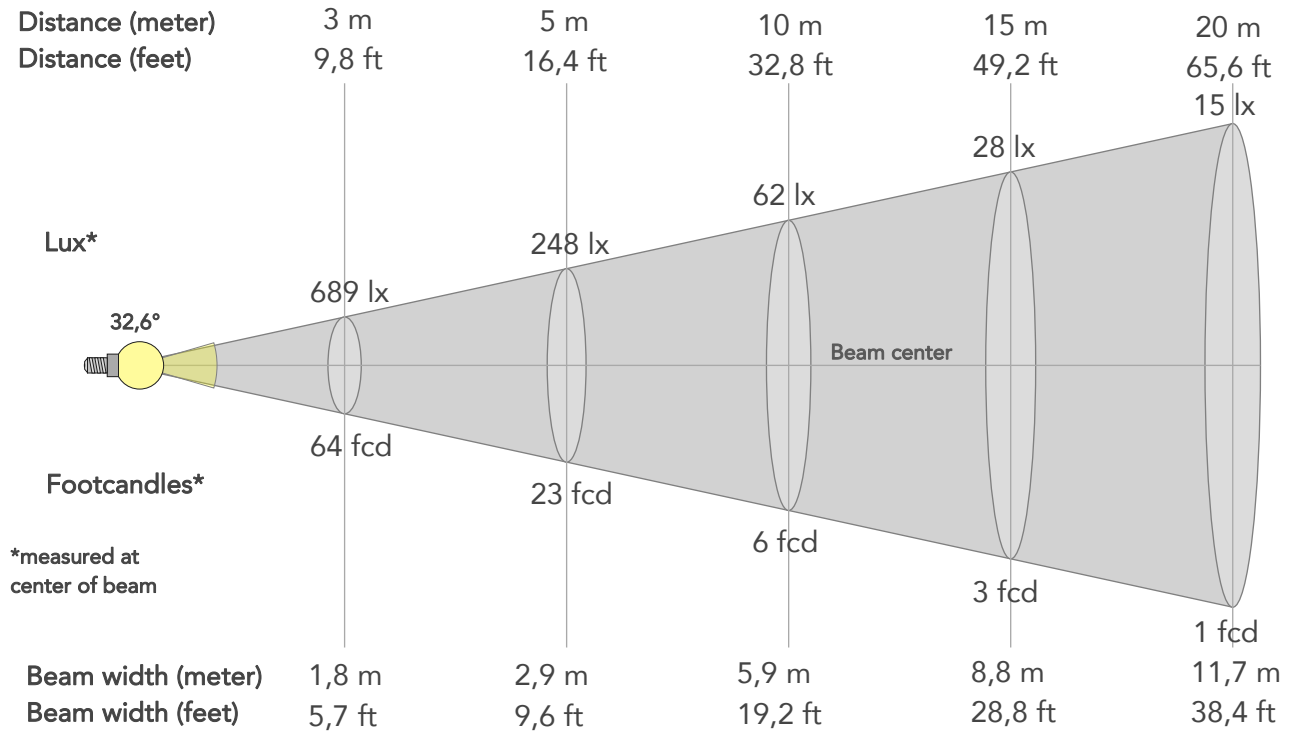
**Rg 109,1**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	95	1%	0%
3	92	2%	4%
4	90	2%	6%
5	86	5%	6%
6	83	11%	5%
7	86	10%	-1%
8	90	4%	-3%
9	93	-1%	-3%
10	93	-3%	3%
11	80	0%	12%
12	86	3%	9%
13	89	7%	7%
14	84	8%	6%
15	85	14%	-3%
16	89	6%	-2%



# BEAM DETAILS

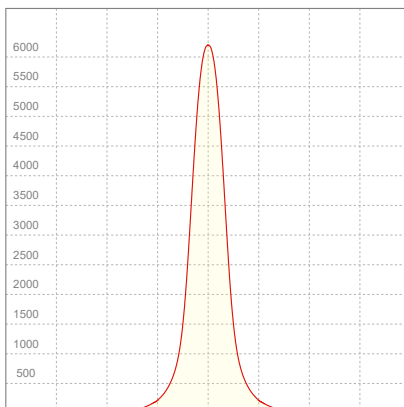
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,6°	62,5°	100,7°	97,8%	91,1%



## 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	6198lx	1550lx	689lx	387lx	248lx	110lx	62lx	28lx	15lx	10lx	7lx	4lx	2lx
Footcand.	576fcd	144fcd	64fcd	36fcd	23fcd	10fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,3m	2,9m	4,4m	5,9m	8,8m	11,7m	14,6m	17,6m	23,4m	29,3m
Beam wid.	1,9ft	3,9ft	5,7ft	7,7ft	9,6ft	14,4ft	19,2ft	28,8ft	38,4ft	48ft	57,6ft	76,8ft	96ft

## LINEAR DISTRIBUTION DIAGRAM

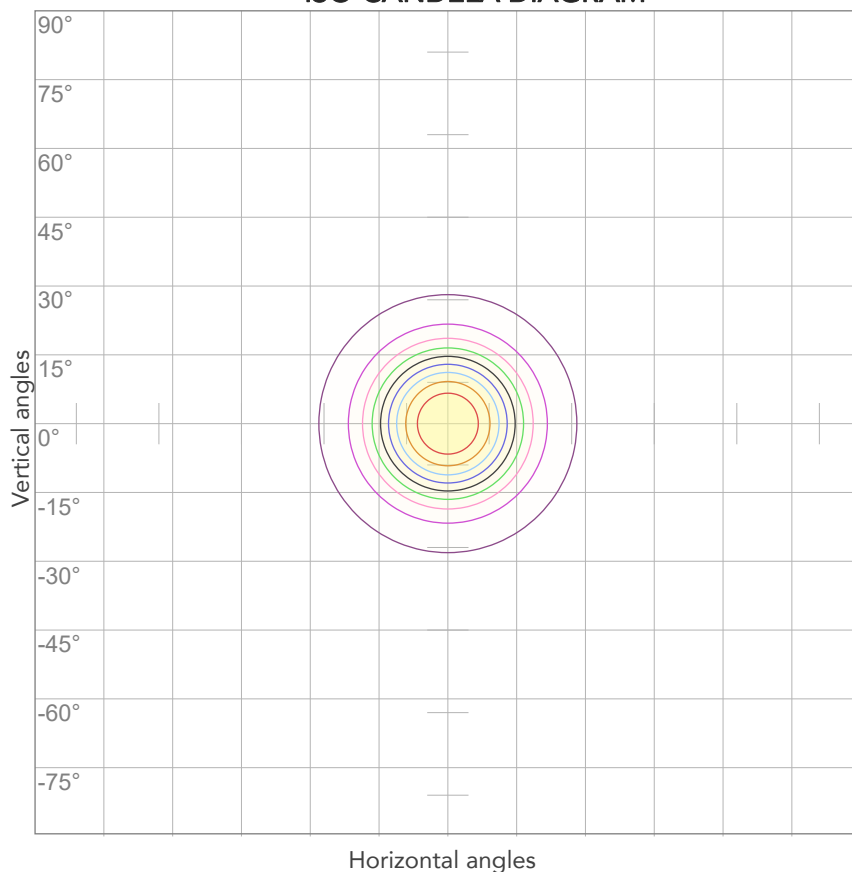


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,328A	68,1W	0,91	39lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



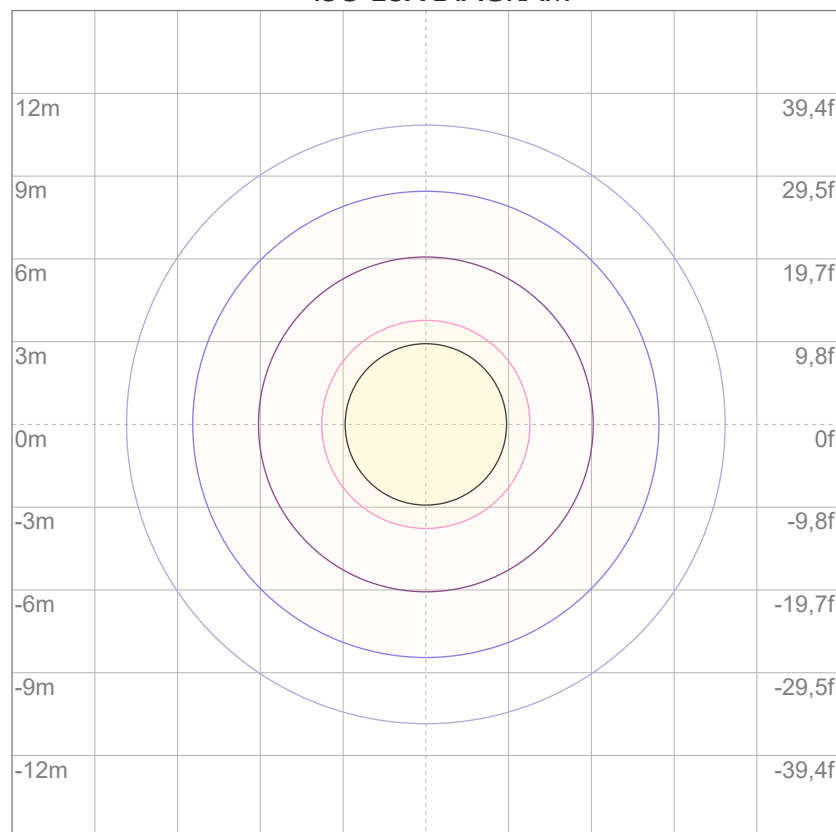
10%	620 cd
20%	1240 cd
30%	1859 cd
40%	2479 cd
50%	3099 cd
60%	3719 cd
70%	4339 cd
80%	4958 cd

### Conditions:

Number of c-planes: 2

Candela at center: 6198 cd

## ISO LUX DIAGRAM



3%	1,86 lx
5%	3,10 lx
10%	6,20 lx
30%	18,6 lx
50%	31,0 lx

### Conditions:

Number of c-planes: 2

Lux at center: 62,0 lx

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



Total lumen output:

2677 lm

Peak candela output:

6275 cd

Light quality:

CRI: 88,8

Color temperature:

6033 K

PRODUCT NAME:

ECLPARIPMFC

MEASURAMENT CONDITIONS:

Beam angle:

Medium Lens

Target:

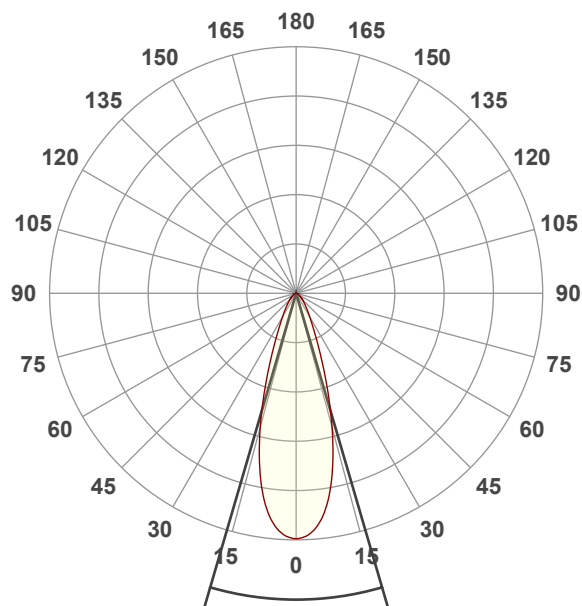
6000K

Operator:

Salvatore Giglio

Date and time:

21/11/2023 12:10:12

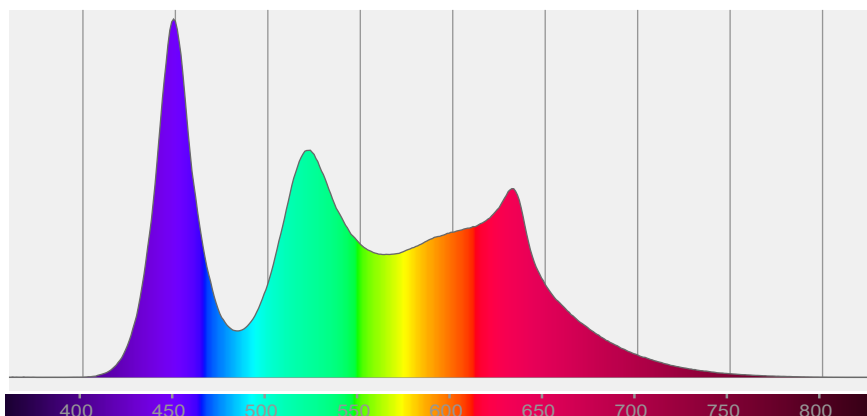


Beam angle 50%: 32,6°

Field angle 10%: 62,4°

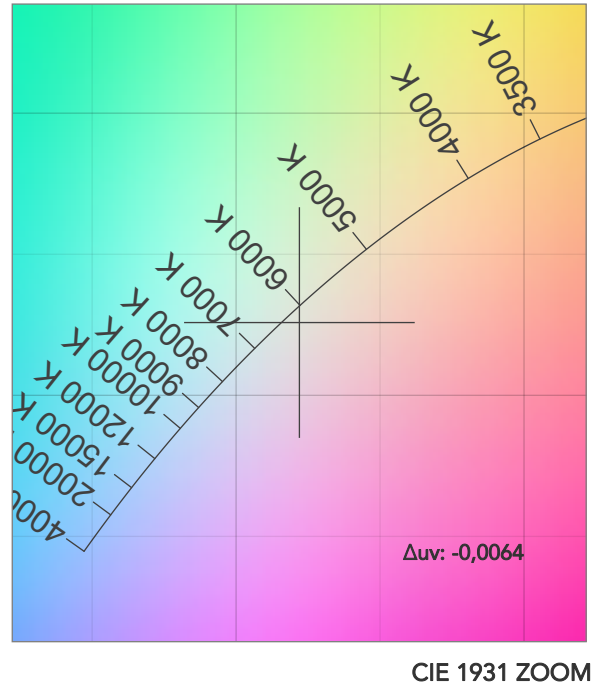
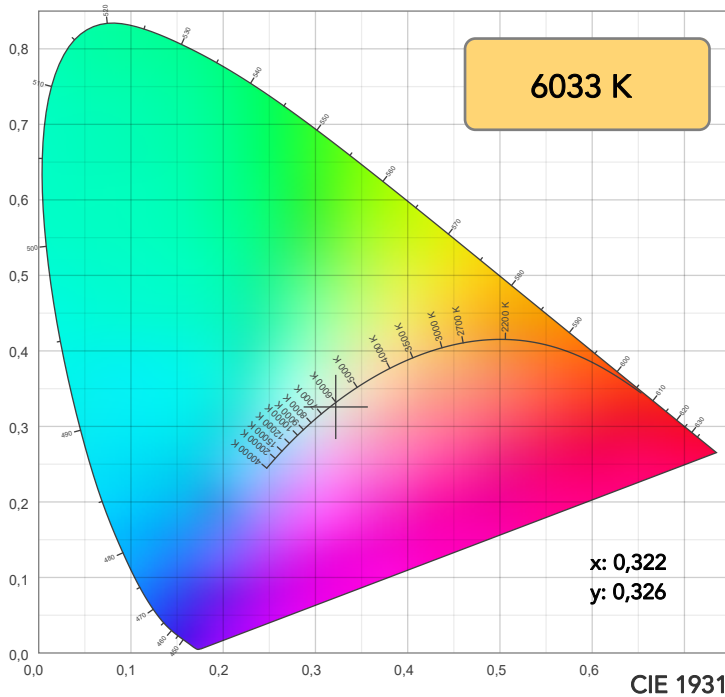
Cut off angle 2.5%: 100,7°

Spectra

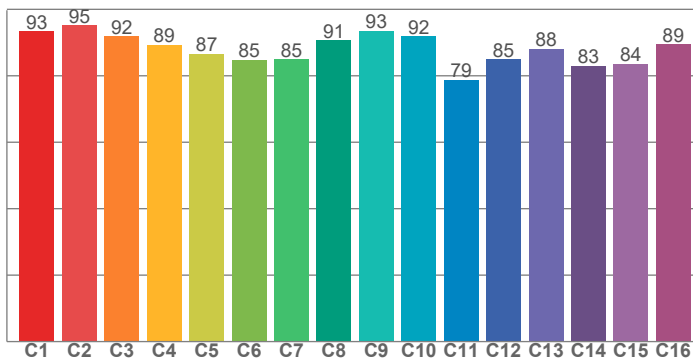




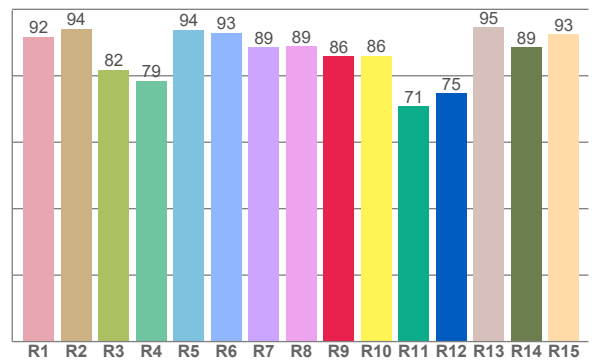
## COLOR DETAILS



TM30: 88,1



CRI: 88,8 (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
91,7	94,1	81,8	78,5	93,8	92,9	88,5	88,8	86,0	86,0	70,9	74,7	94,6	88,7	92,5

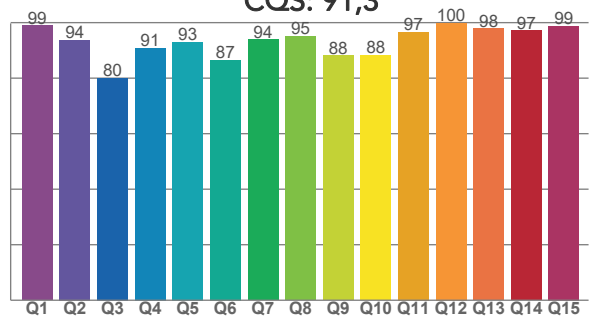
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,4	95,2	91,8	89,3	86,5	84,7	85,0	90,7	93,5	91,8	78,8	84,9	88,1	83,0	83,6	89,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,9	93,7	80,0	90,8	93,0	86,6	93,9	95,1	88,1	88,2	96,6	99,9	97,9	97,1	98,7

CQS: 91,3



## COLOR PARAMETERS

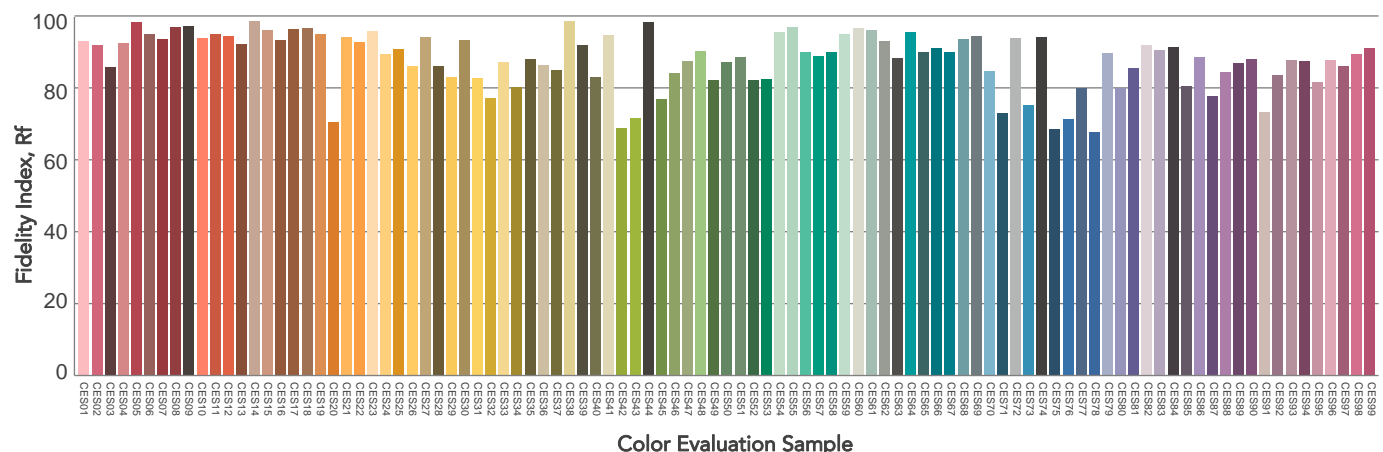
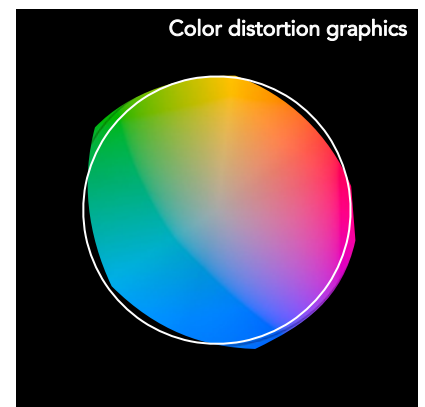
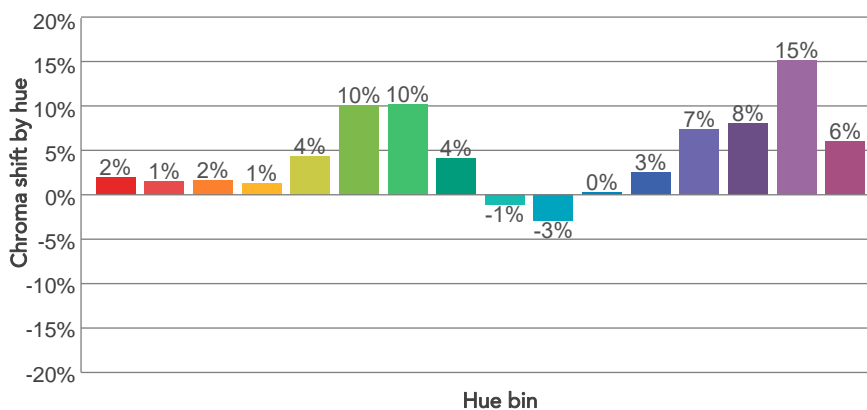
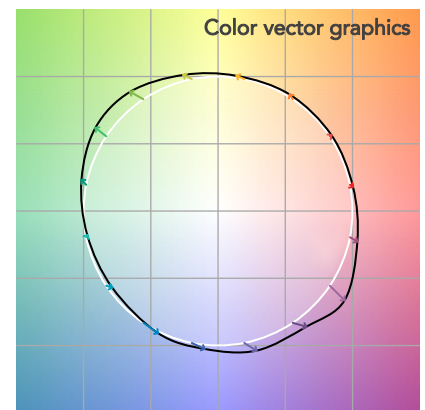
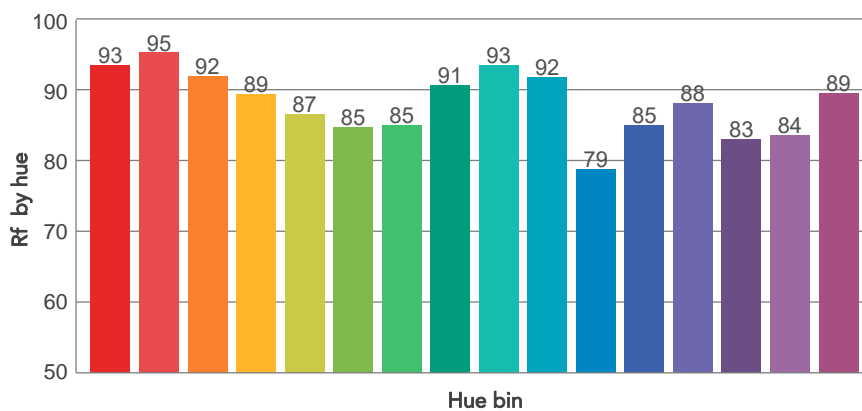
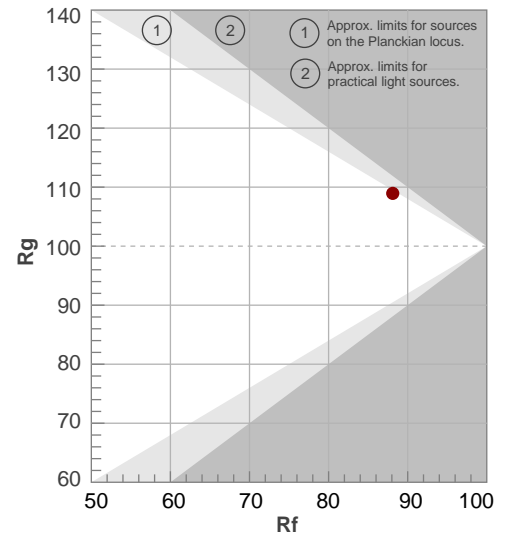
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
6033 K	88,8	86,0	88,1	108,9	91,3	85	0,322	0,326	-0,0064

# TM30 DETAILS

**Rf 88,1**  
Fidelity index Rf

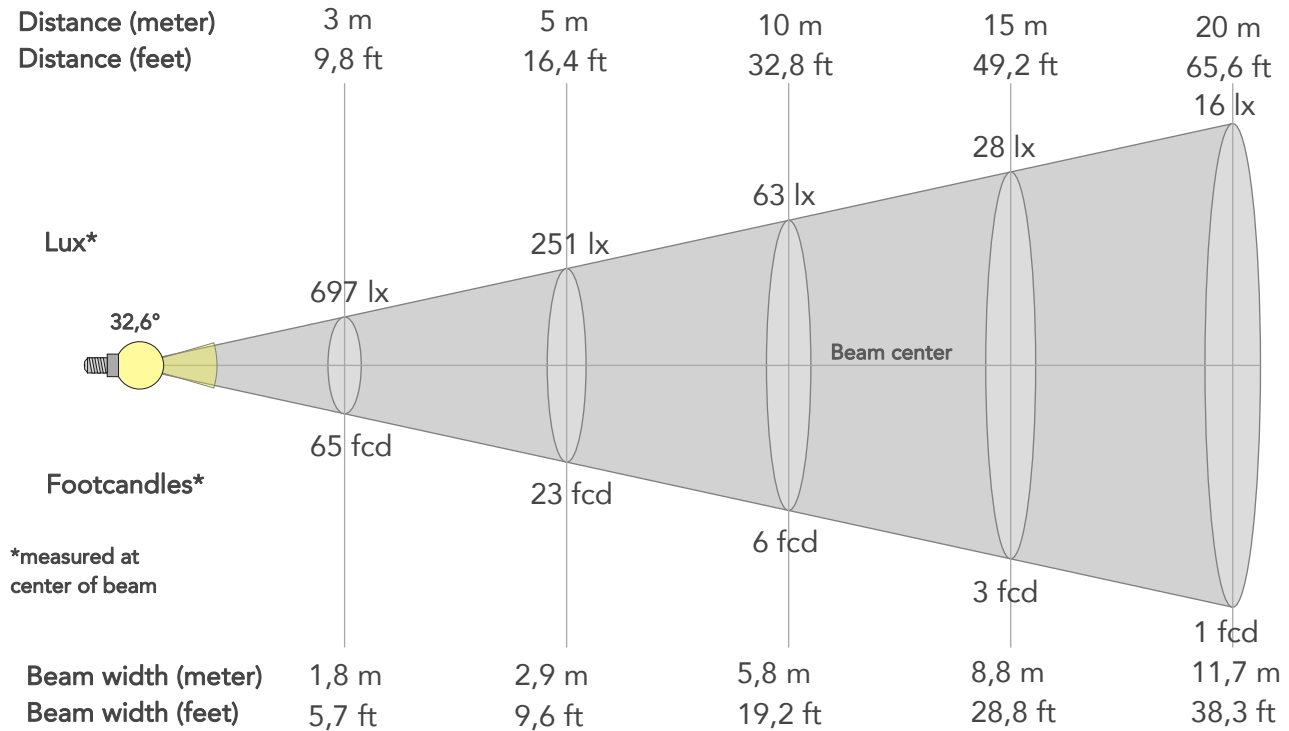
**Rg 108,9**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	95	1%	0%
3	92	2%	4%
4	89	1%	6%
5	87	4%	6%
6	85	10%	5%
7	85	10%	-1%
8	91	4%	-3%
9	93	-1%	-1%
10	92	-3%	4%
11	79	0%	13%
12	85	3%	10%
13	88	7%	8%
14	83	8%	7%
15	84	15%	-3%
16	89	6%	-2%



# BEAM DETAILS

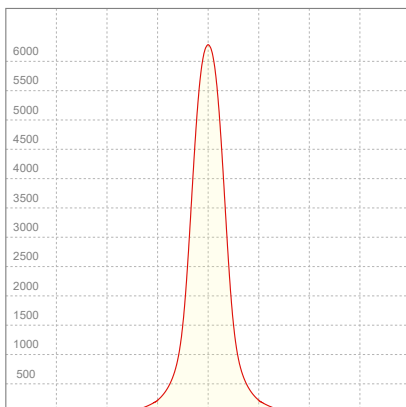
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,6°	62,4°	100,7°	97,8%	91,1%



## 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	6275lx	1569lx	697lx	392lx	251lx	112lx	63lx	28lx	16lx	10lx	7lx	4lx	3lx
Footcand.	583fcd	146fcd	65fcd	36fcd	23fcd	10fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,3m	2,9m	4,4m	5,8m	8,8m	11,7m	14,6m	17,5m	23,4m	29,2m
Beam wid.	1,9ft	3,9ft	5,7ft	7,7ft	9,6ft	14,4ft	19,2ft	28,8ft	38,3ft	47,9ft	57,5ft	76,7ft	95,9ft

## LINEAR DISTRIBUTION DIAGRAM

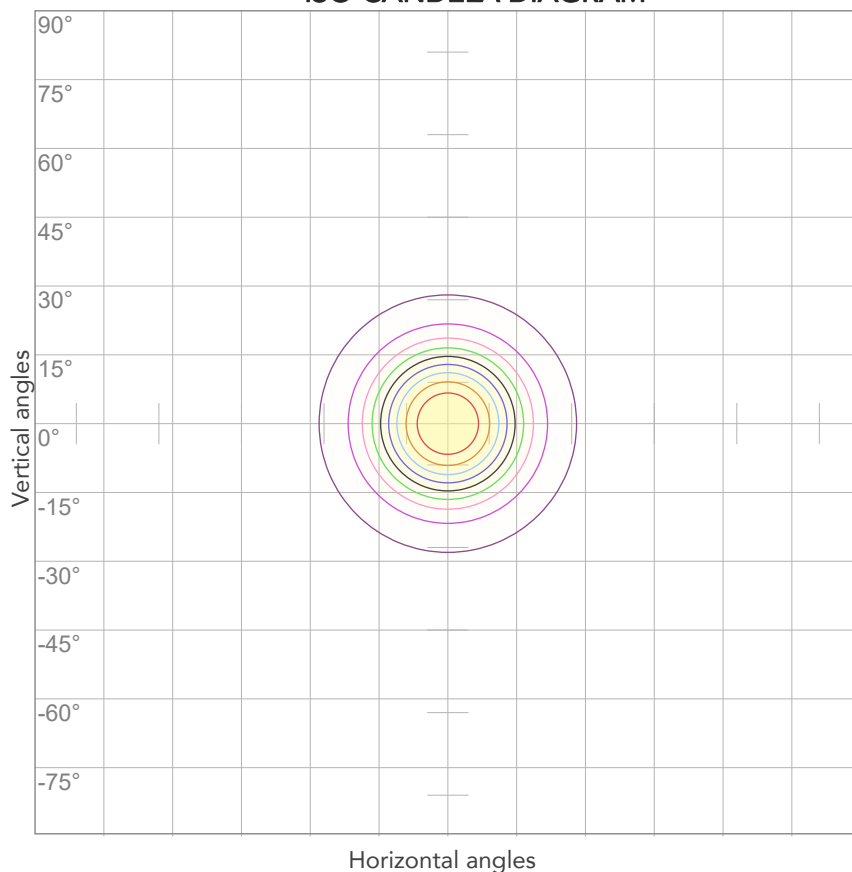


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,339A	69,6W	0,91	38lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



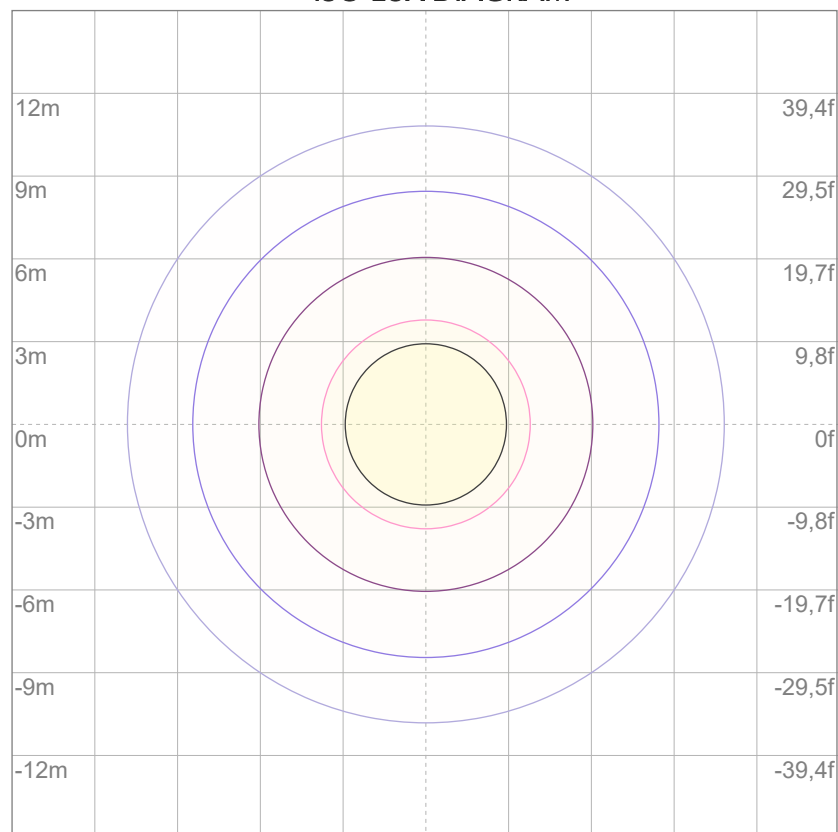
10%	627 cd
20%	1255 cd
30%	1882 cd
40%	2510 cd
50%	3137 cd
60%	3765 cd
70%	4392 cd
80%	5020 cd

### Conditions:

Number of c-planes: 2

Candela at center: 6275 cd

## ISO LUX DIAGRAM



3%	1,88 lx
5%	3,14 lx
10%	6,27 lx
30%	18,8 lx
50%	31,4 lx

### Conditions:

Number of c-planes: 2

Lux at center: 62,7 lx

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



Total lumen output:

3462 lm

Peak candela output:

3864 cd

Light quality:

CRI: 34,5

Color temperature:

10891 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wide Lens

Target:

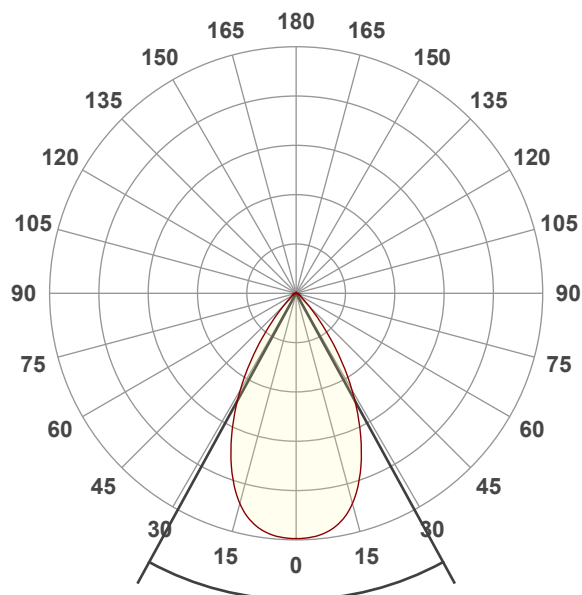
Full On

Operator:

Salvatore Giglio

Date and time:

21/11/2023 11:12:59

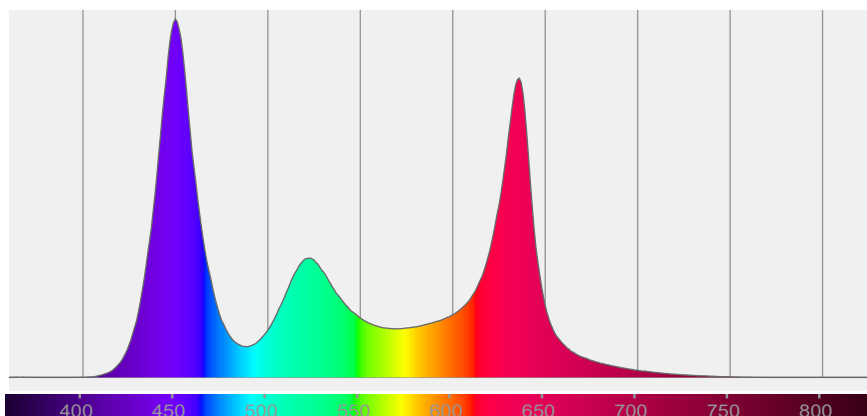


Beam angle 50%: 57,3°

Field angle 10%: 86,2°

Cut off angle 2.5%: 107,8°

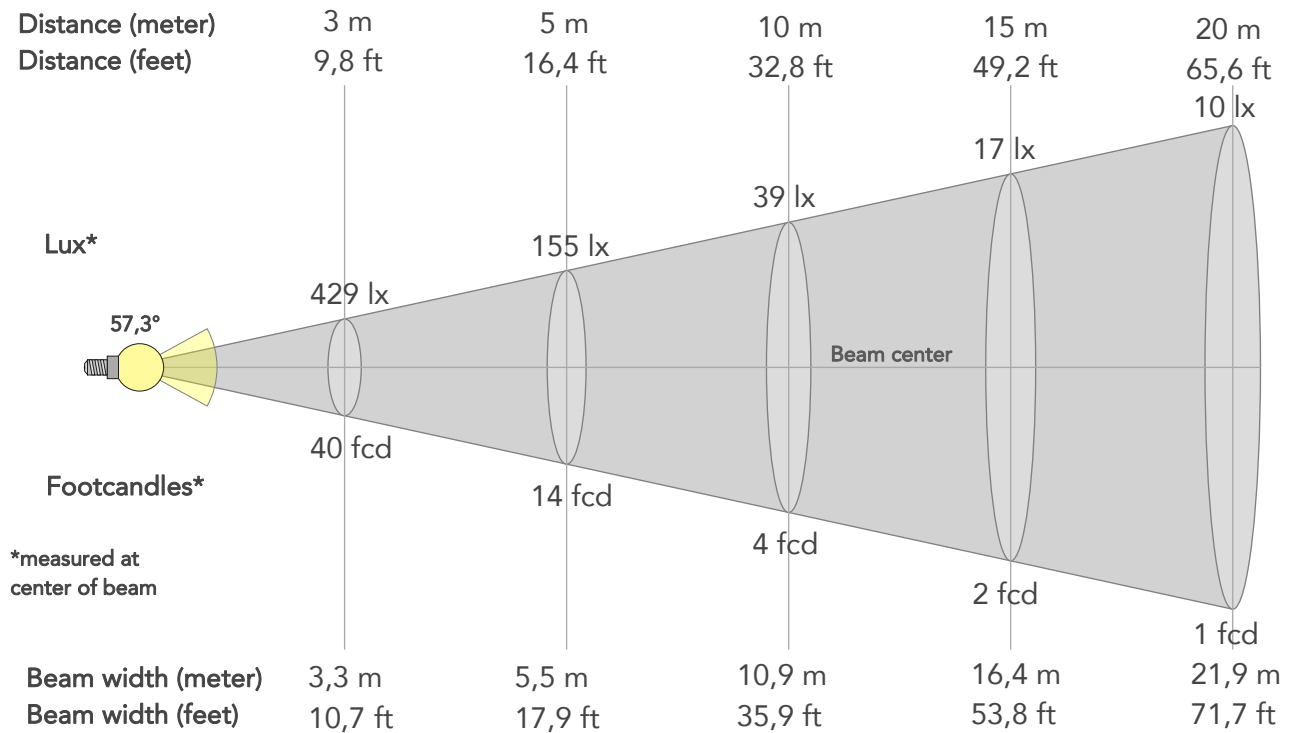
**Spectra**



# BEAM DETAILS



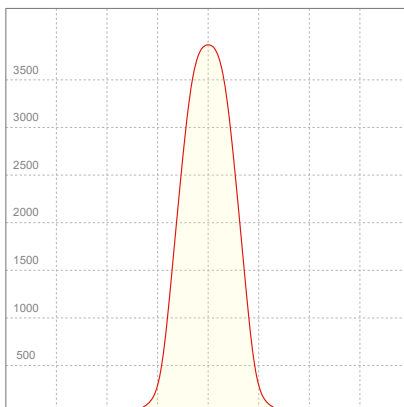
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57,3°	86,2°	107,8°	99,3%	94,6%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3864lx	966lx	429lx	241lx	155lx	69lx	39lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	359fcd	90fcd	40fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,3m	4,4m	5,5m	8,2m	10,9m	16,4m	21,9m	27,3m	32,8m	43,7m	54,7m
Beam wid.	3,6ft	7,2ft	10,7ft	14,3ft	17,9ft	26,9ft	35,9ft	53,8ft	71,7ft	89,7ft	107,6ft	143,5ft	179,3ft

## LINEAR DISTRIBUTION DIAGRAM

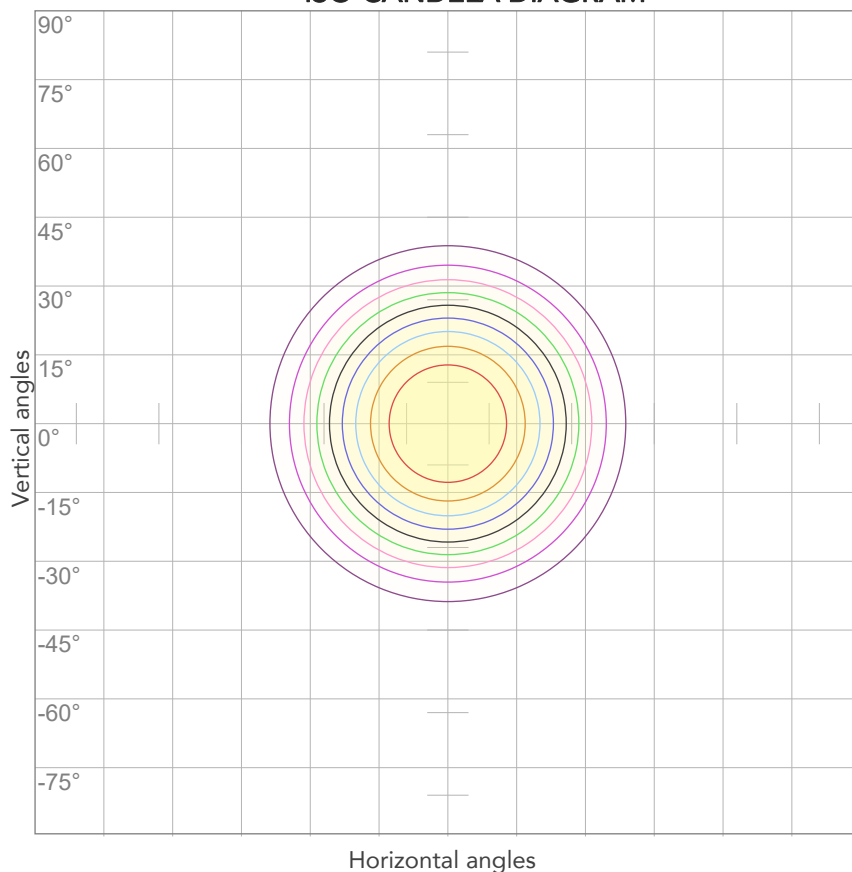


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	0,517A	109,5W	0,94	32lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



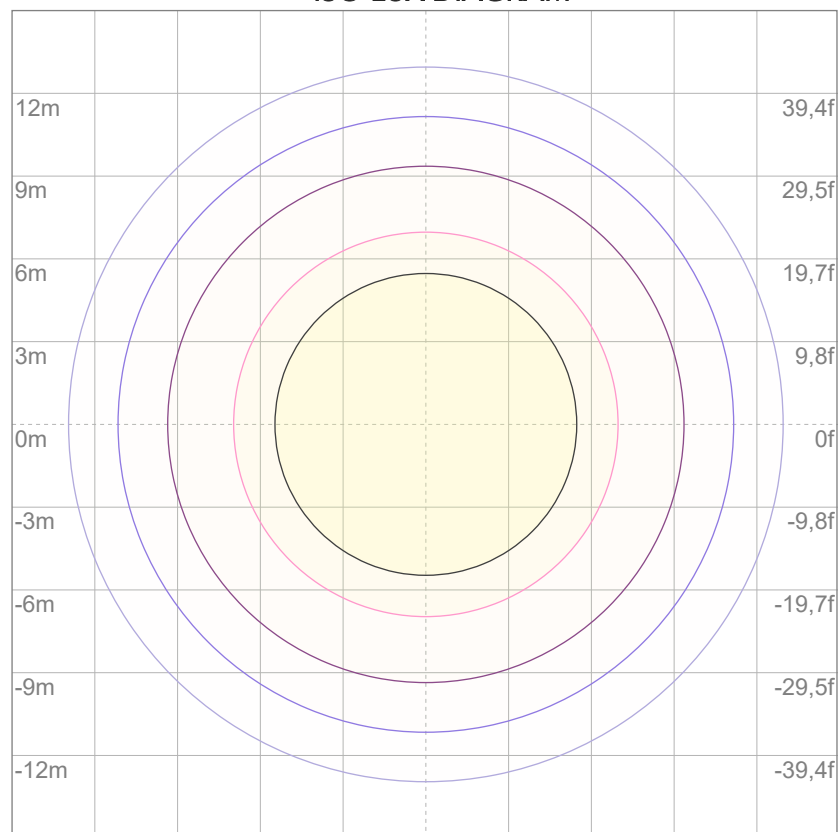
10%	386 cd
20%	773 cd
30%	1159 cd
40%	1545 cd
50%	1932 cd
60%	2318 cd
70%	2705 cd
80%	3091 cd

### Conditions:

Number of c-planes: 2

Candela at center: 3864 cd

## ISO LUX DIAGRAM



3%	1,16 lx
5%	1,93 lx
10%	3,86 lx
30%	11,6 lx
50%	19,3 lx

### Conditions:

Number of c-planes: 2

Lux at center: 38,6 lx

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



Total lumen output:

973 lm

Peak candela output:

1194 cd

PRODUCT NAME:

ECLPARIPMFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide Lens

Target:

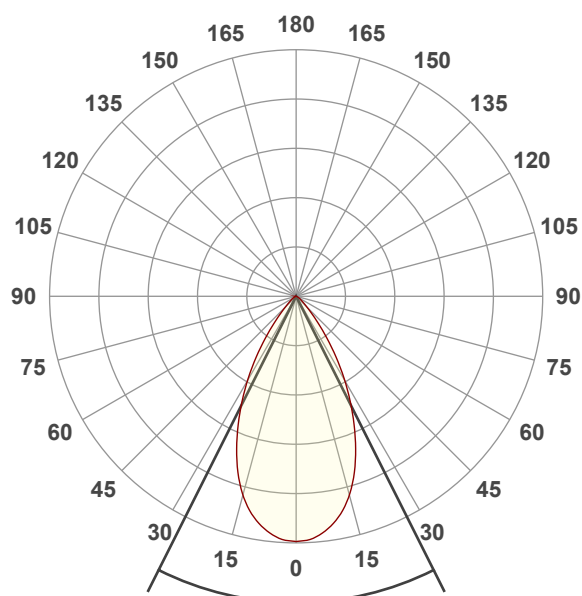
Red

Operator:

Salvatore Giglio

Date and time:

21/11/2023 11:22:08

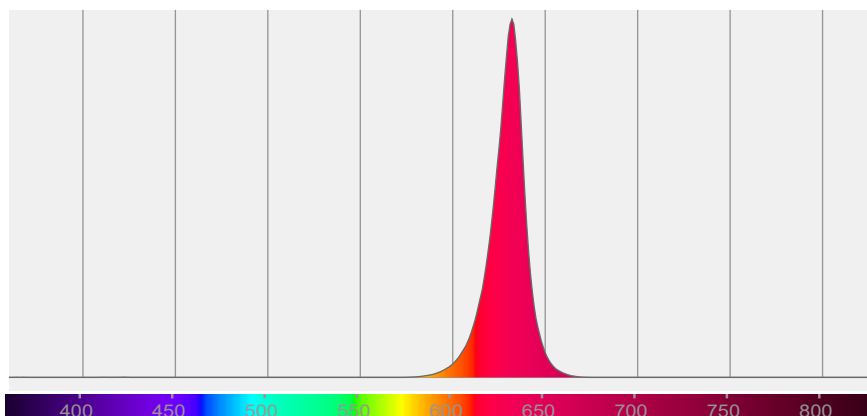


Beam angle 50%: 53,3°

Field angle 10%: 83,7°

Cut off angle 2.5%: 106,4°

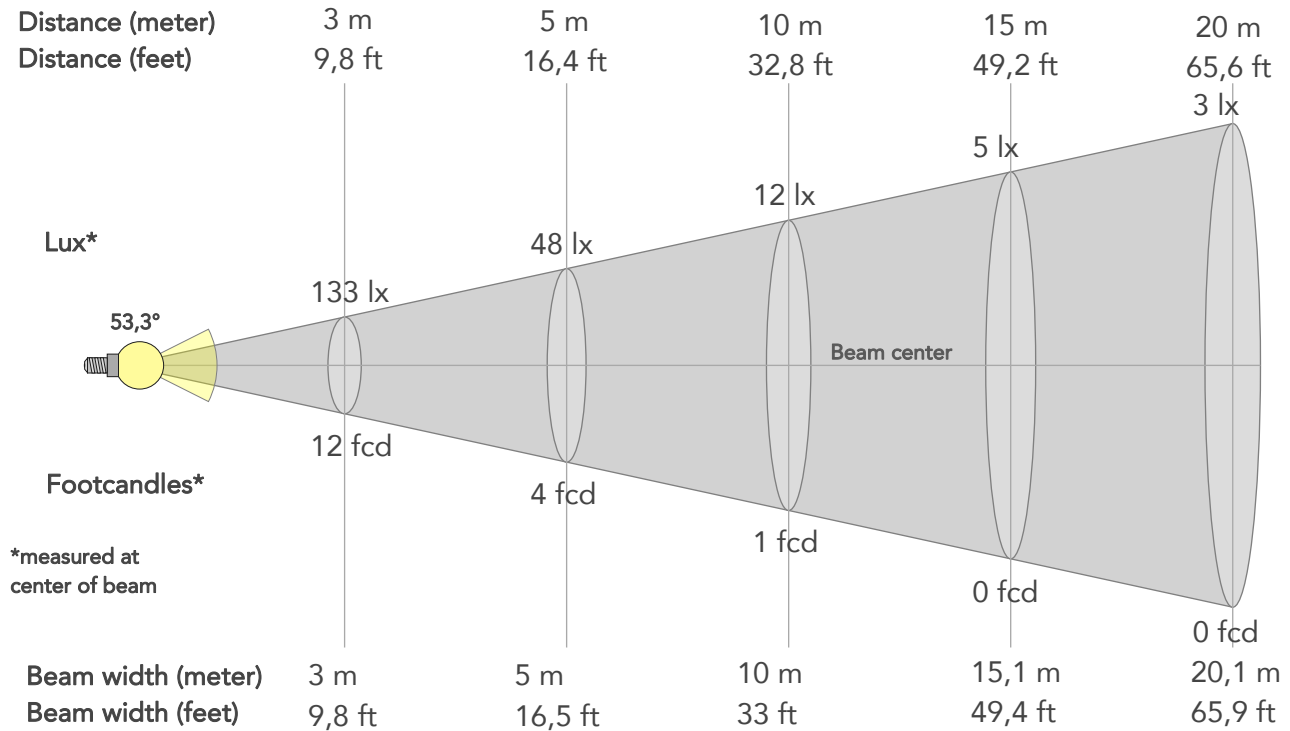
Spectra





# BEAM DETAILS

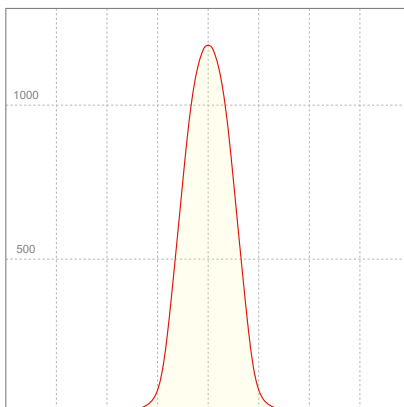
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,3°	83,7°	106,4°	98,7%	93,9%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1194lx	299lx	133lx	75lx	48lx	21lx	12lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	111fcd	28fcd	12fcd	7fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,5m	10m	15,1m	20,1m	25,1m	30,1m	40,2m	50,2m
Beam wid.	3,3ft	6,6ft	9,8ft	13,2ft	16,5ft	24,7ft	33ft	49,4ft	65,9ft	82,4ft	98,9ft	131,8ft	164,8ft

## LINEAR DISTRIBUTION DIAGRAM

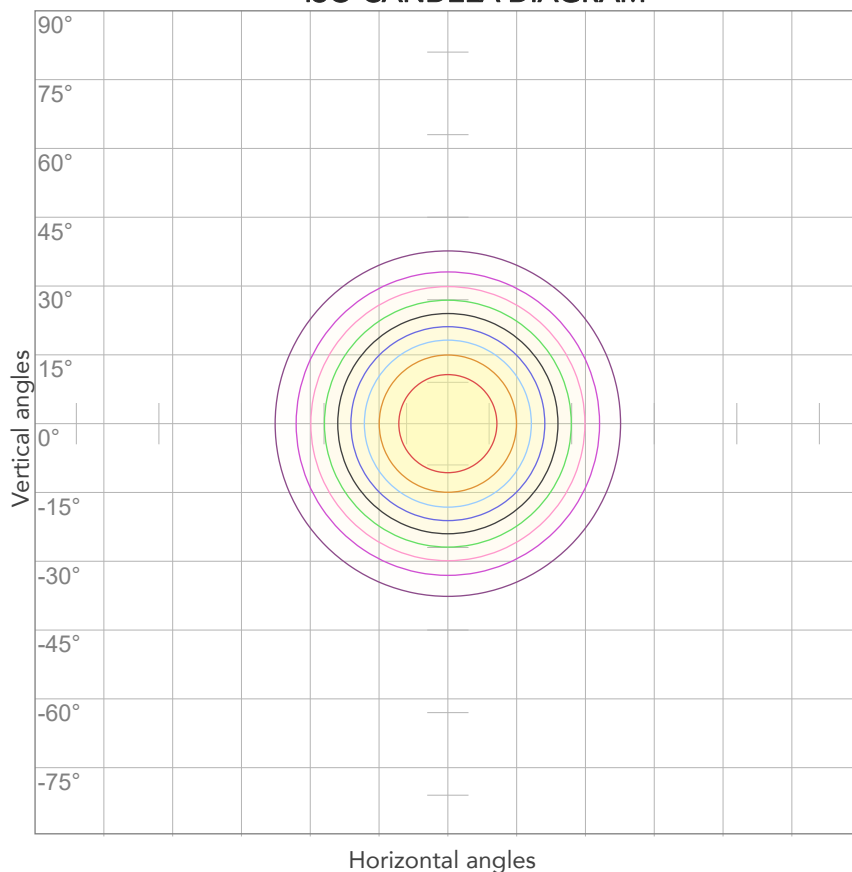


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,167A	30,8W	0,82	32lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



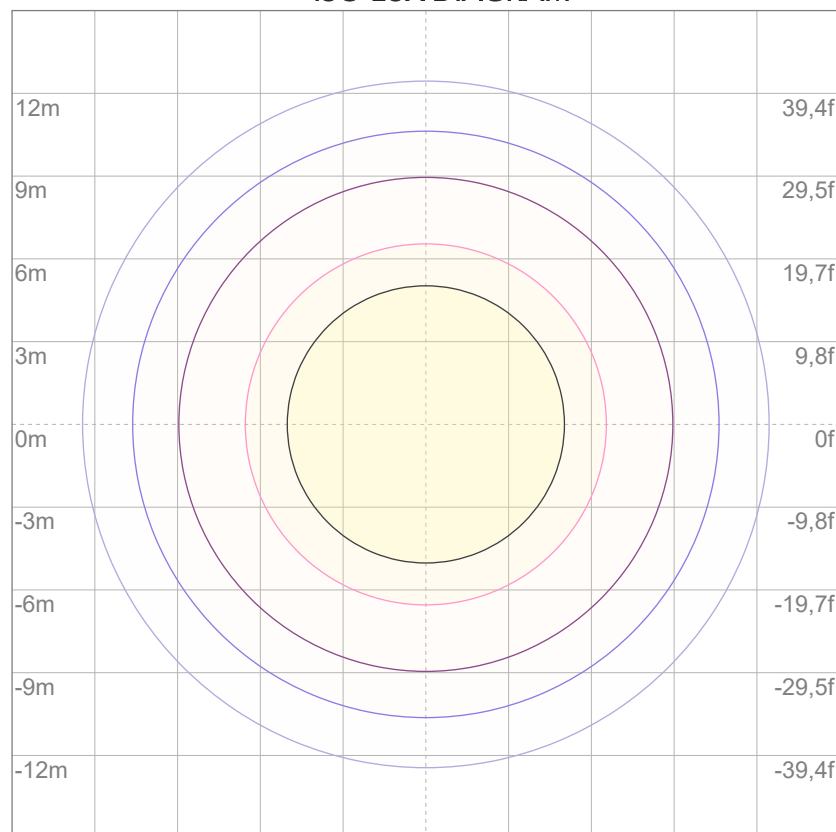
10%	119 cd
20%	239 cd
30%	358 cd
40%	478 cd
50%	597 cd
60%	717 cd
70%	836 cd
80%	956 cd

### Conditions:

Number of c-planes: 2

Candela at center: 1194 cd

## ISO LUX DIAGRAM



3%	0,358 lx
5%	0,597 lx
10%	1,19 lx
30%	3,58 lx
50%	5,97 lx

### Conditions:

Number of c-planes: 2

Lux at center: 11,9 lx

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



Total lumen output:

1198 lm

Peak candela output:

1359 cd

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wide Lens

Target:

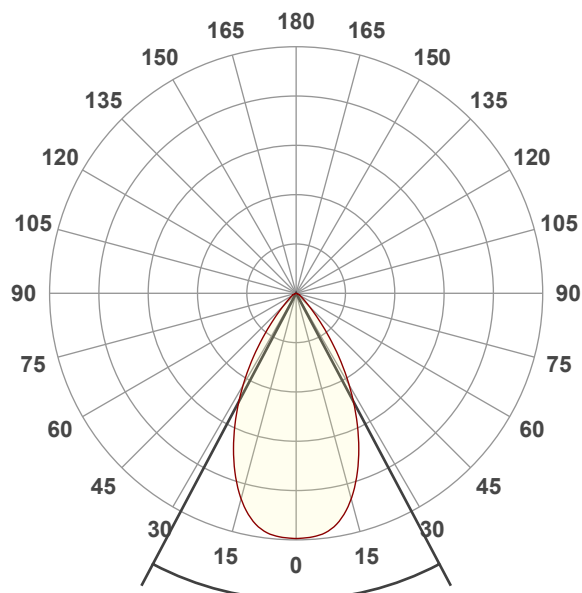
Green

Operator:

Salvatore Giglio

Date and time:

21/11/2023 11:23:31

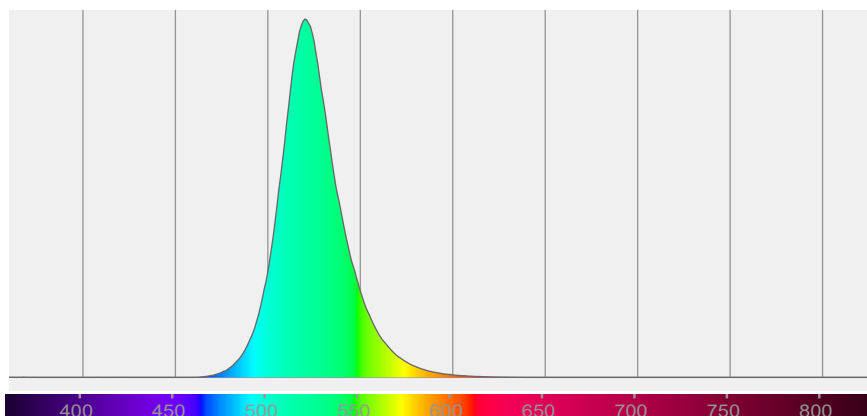


Beam angle 50%: 55,8°

Field angle 10%: 86,2°

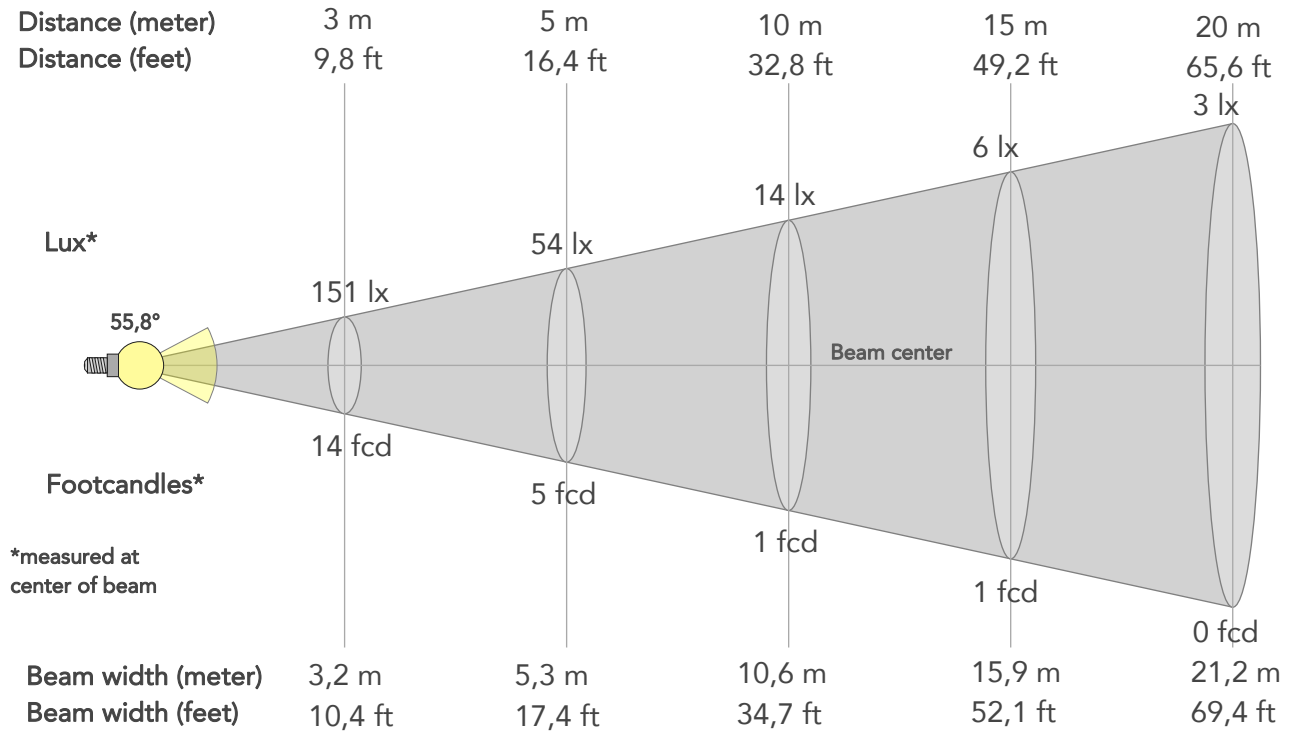
Cut off angle 2.5%: 111,9°

**Spectra**



# BEAM DETAILS

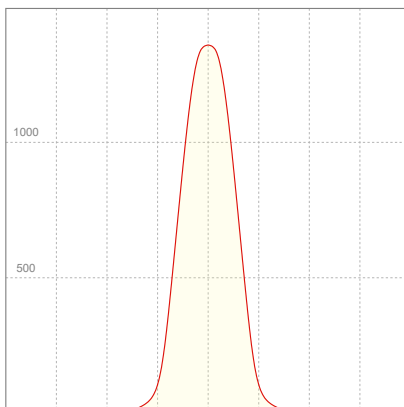
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55,8°	86,2°	111,9°	98,4%	92,9%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1359lx	340lx	151lx	85lx	54lx	24lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	126fcd	32fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,1m	3,2m	4,2m	5,3m	7,9m	10,6m	15,9m	21,2m	26,5m	31,7m	42,3m	52,9m
Beam wid.	3,5ft	7ft	10,4ft	13,9ft	17,4ft	26ft	34,7ft	52,1ft	69,4ft	86,8ft	104,1ft	138,8ft	173,5ft

## LINEAR DISTRIBUTION DIAGRAM

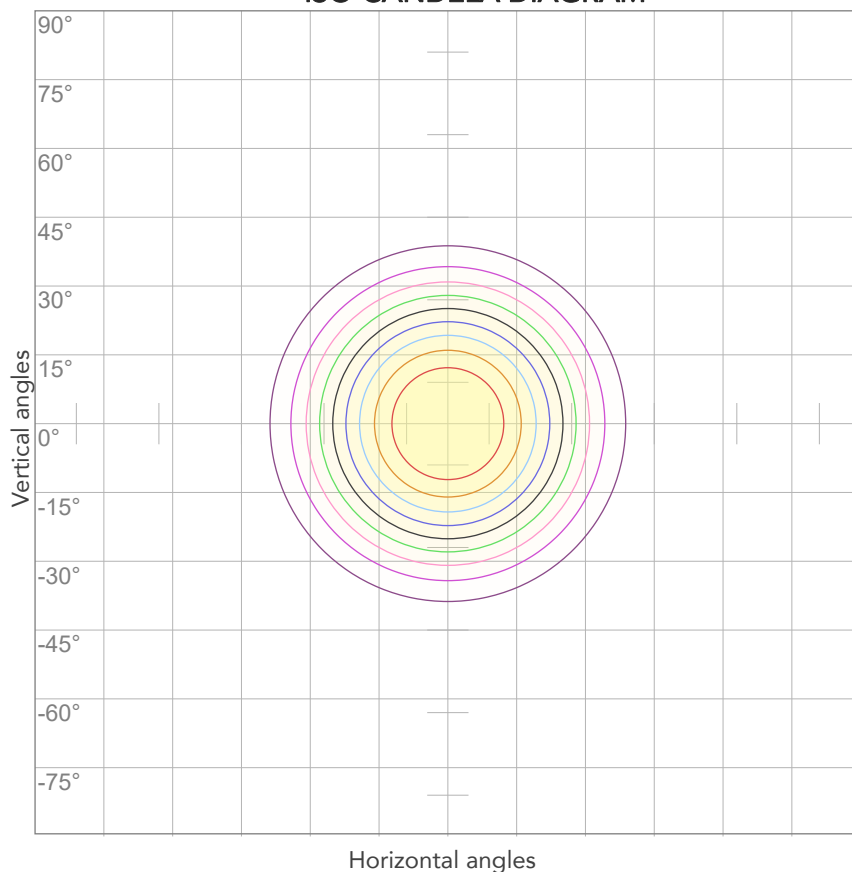


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,173A	31,7W	0,81	38lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



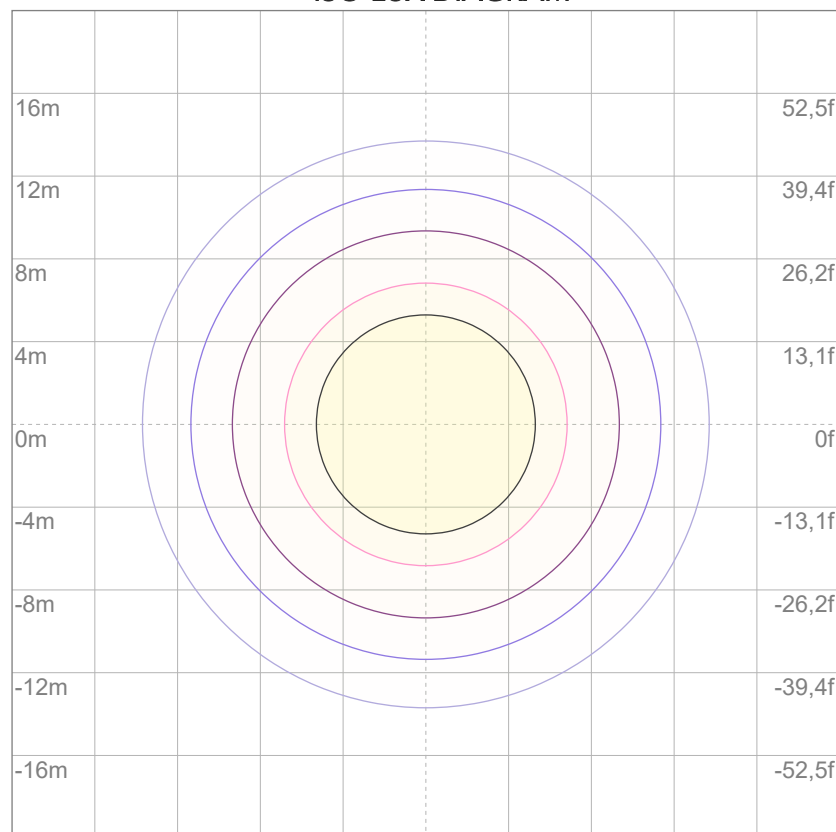
10%	136 cd
20%	272 cd
30%	408 cd
40%	543 cd
50%	679 cd
60%	815 cd
70%	951 cd
80%	1087 cd

### Conditions:

Number of c-planes: 2

Candela at center: 1359 cd

## ISO LUX DIAGRAM



3%	0,408 lx
5%	0,679 lx
10%	1,36 lx
30%	4,08 lx
50%	6,79 lx

### Conditions:

Number of c-planes: 2

Lux at center: 13,6 lx

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



Total lumen output:

217 lm

Peak candela output:

229 cd

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wide Lens

Target:

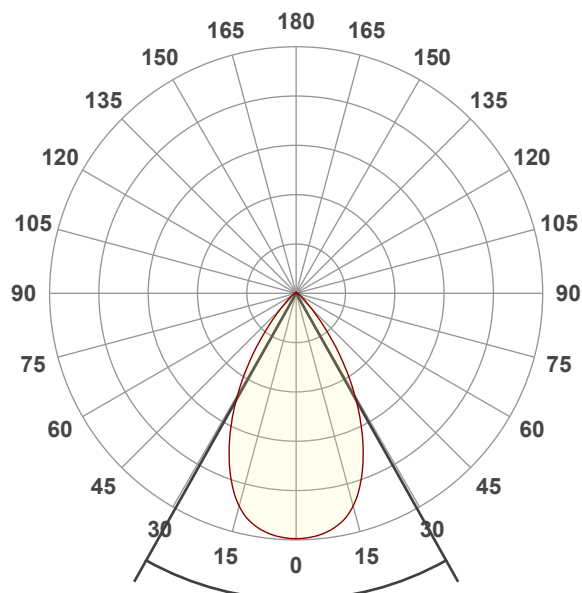
Blue

Operator:

Salvatore Giglio

Date and time:

21/11/2023 11:26:22

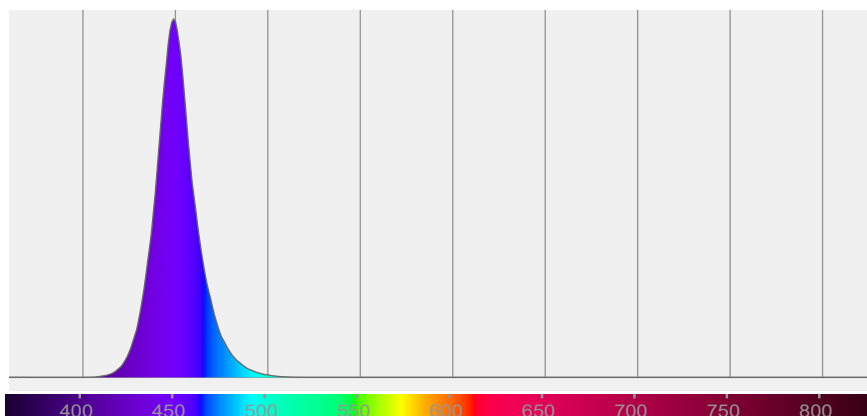


Beam angle 50%: 58,6°

Field angle 10%: 88,7°

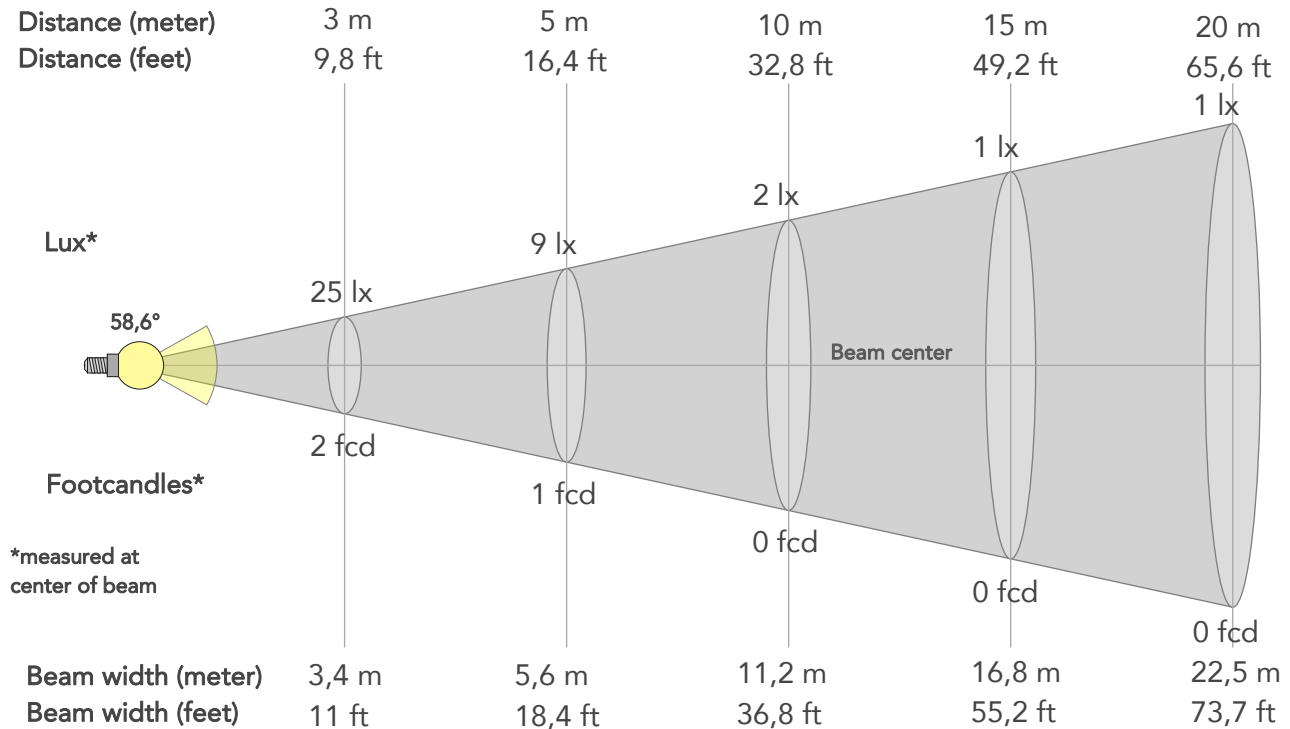
Cut off angle 2.5%: 114,8°

**Spectra**



# BEAM DETAILS

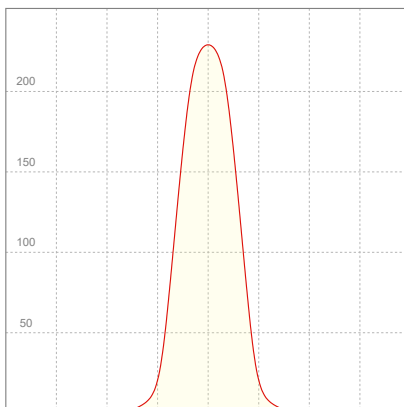
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58,6°	88,7°	114,8°	98,2%	92,5%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	229lx	57lx	25lx	14lx	9lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	21fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,4m	4,5m	5,6m	8,4m	11,2m	16,8m	22,5m	28,1m	33,7m	44,9m	56,1m
Beam wid.	3,7ft	7,4ft	11ft	14,7ft	18,4ft	27,6ft	36,8ft	55,2ft	73,7ft	92,1ft	110,5ft	147,3ft	184,2ft

## LINEAR DISTRIBUTION DIAGRAM

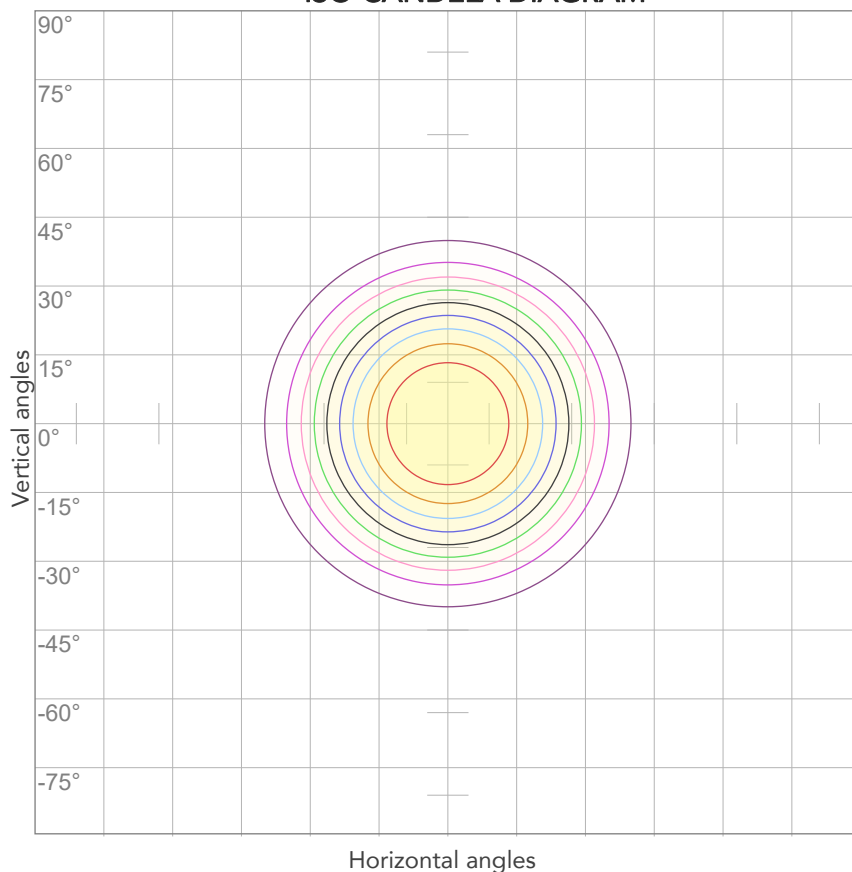


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,168A	30,9W	0,82	7lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



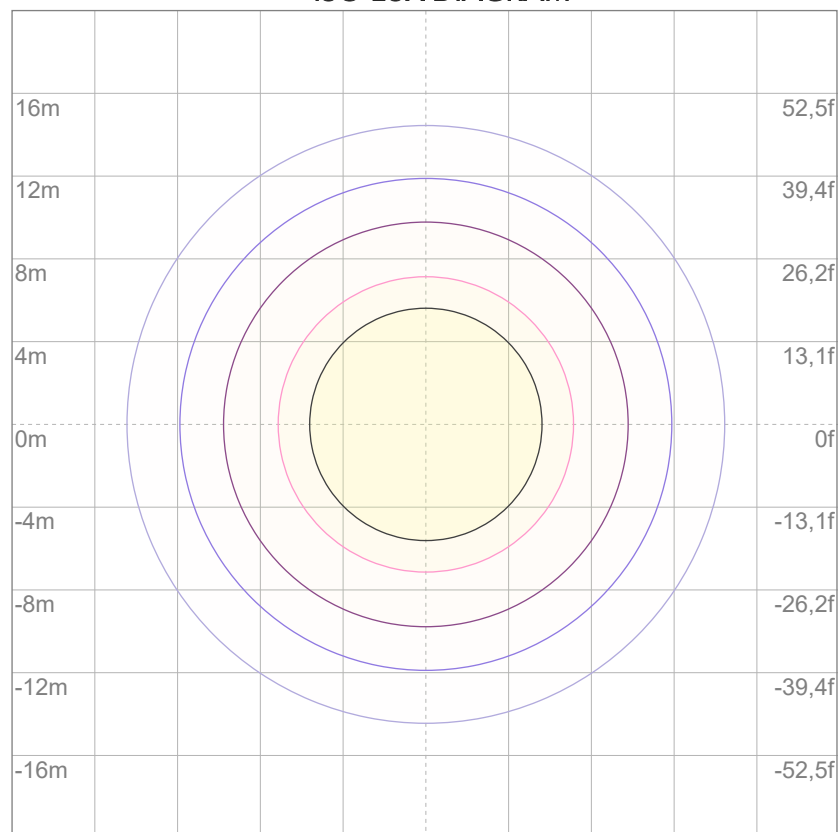
10%	23 cd
20%	46 cd
30%	69 cd
40%	91 cd
50%	114 cd
60%	137 cd
70%	160 cd
80%	183 cd

### Conditions:

Number of c-planes: 2

Candela at center: 229 cd

## ISO LUX DIAGRAM



3%	68,6m lx
5%	0,114 lx
10%	0,229 lx
30%	0,686 lx
50%	1,14 lx

### Conditions:

Number of c-planes: 2

Lux at center: 2,29 lx

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





Total lumen output:

1886 lm

Peak candela output:

1916 cd

PRODUCT NAME:

ECLPARIPMFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide Lens

Target:

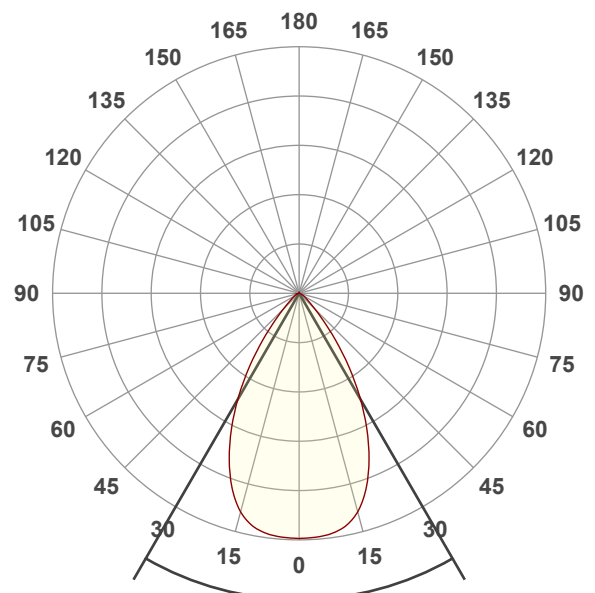
White

Operator:

Salvatore Giglio

Date and time:

21/11/2023 11:28:04

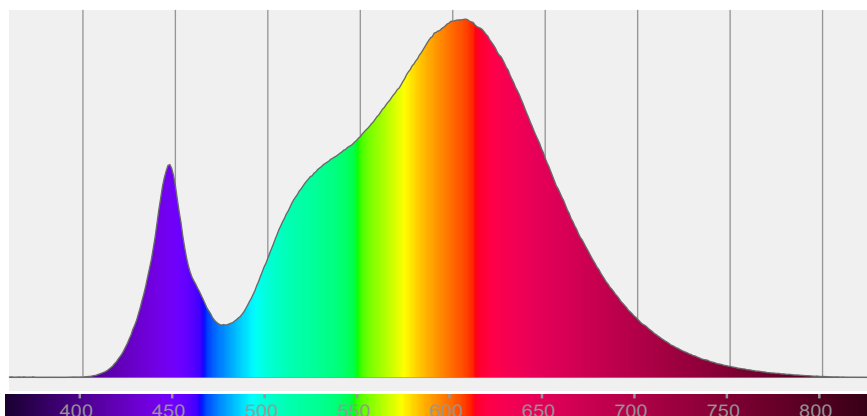


Beam angle 50%: 60,1°

Field angle 10%: 89°

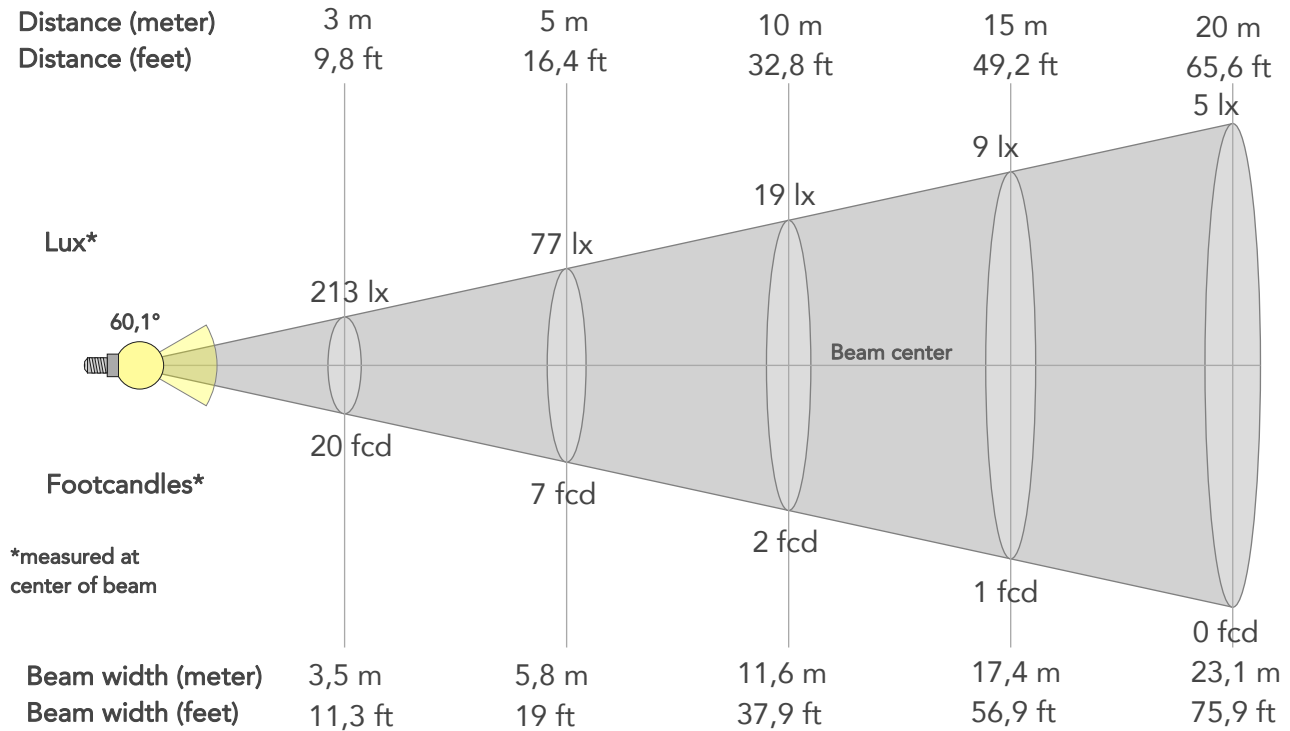
Cut off angle 2.5%: 116°

Spectra



# BEAM DETAILS

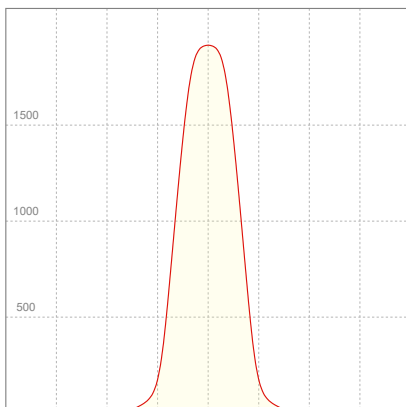
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60,1°	89°	116°	98,2%	92,4%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1916lx	479lx	213lx	120lx	77lx	34lx	19lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	178fcd	45fcd	20fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,7m	11,6m	17,4m	23,1m	28,9m	34,7m	46,3m	57,8m
Beam wid.	3,8ft	7,6ft	11,3ft	15,2ft	19ft	28,5ft	37,9ft	56,9ft	75,9ft	94,9ft	113,8ft	151,8ft	189,7ft

## LINEAR DISTRIBUTION DIAGRAM

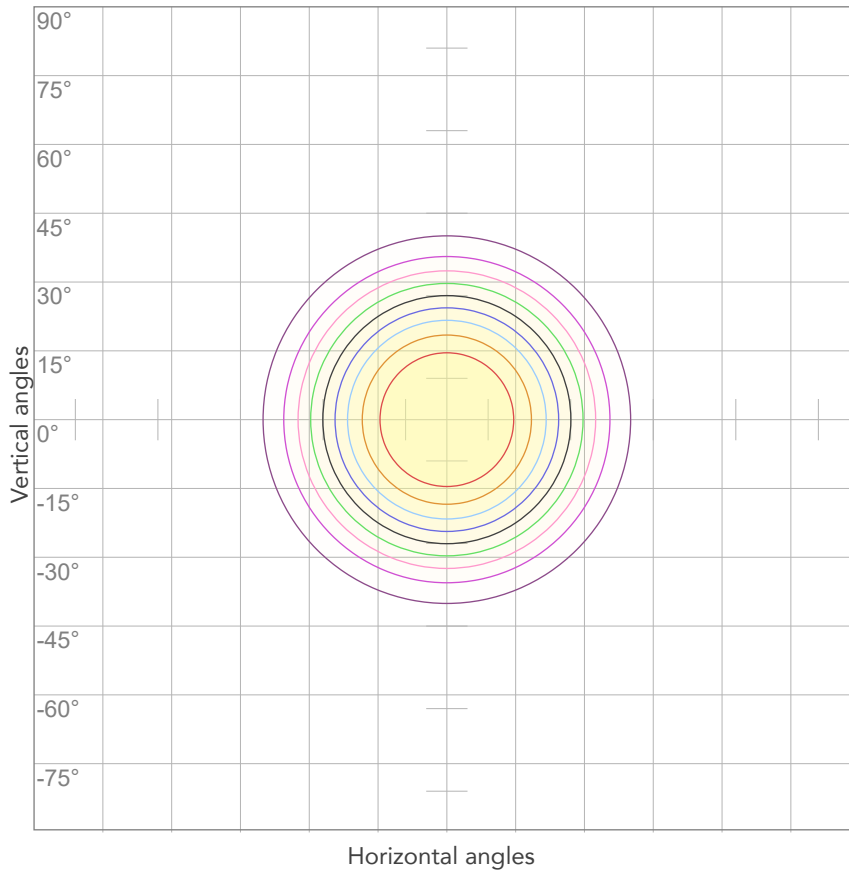


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,218A	42,4W	0,87	44lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



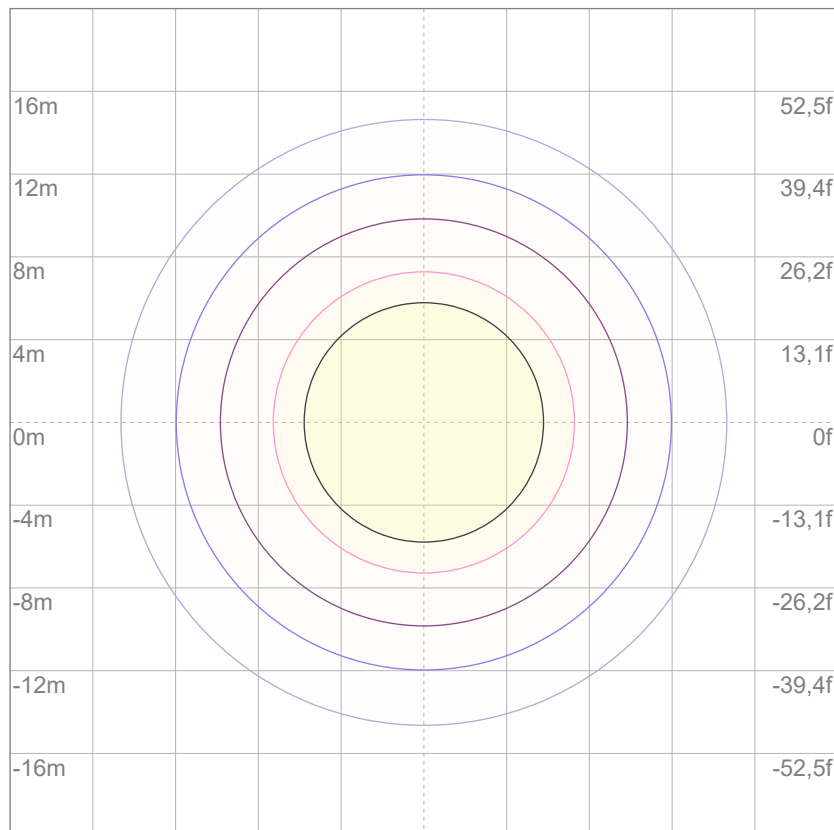
10%	192 cd
20%	383 cd
30%	575 cd
40%	766 cd
50%	958 cd
60%	1150 cd
70%	1341 cd
80%	1533 cd

### Conditions:

Number of c-planes: 2

Candela at center: 1916 cd

## ISO LUX DIAGRAM



3%	0,575 lx
5%	0,958 lx
10%	1,92 lx
30%	5,75 lx
50%	9,58 lx

### Conditions:

Number of c-planes: 2

Lux at center: 19,2 lx

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



Total lumen output:

2312 lm

Peak candela output:

2492 cd

Light quality:

CRI: 90,6

Color temperature:

2781 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wide Lens

Target:

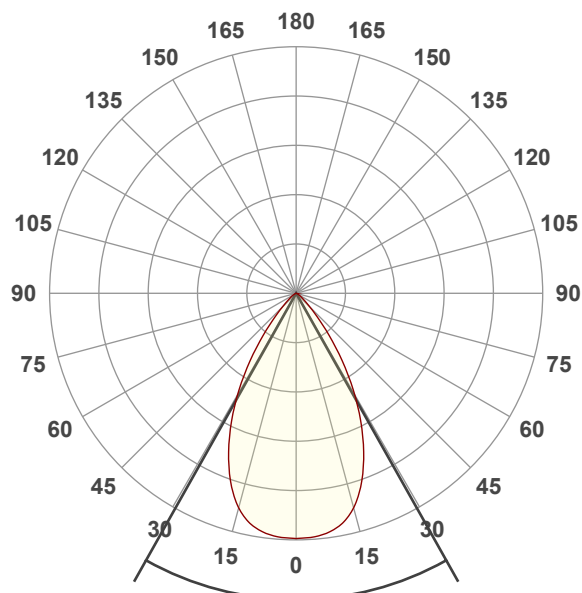
2800K

Operator:

Salvatore Giglio

Date and time:

21/11/2023 11:30:17

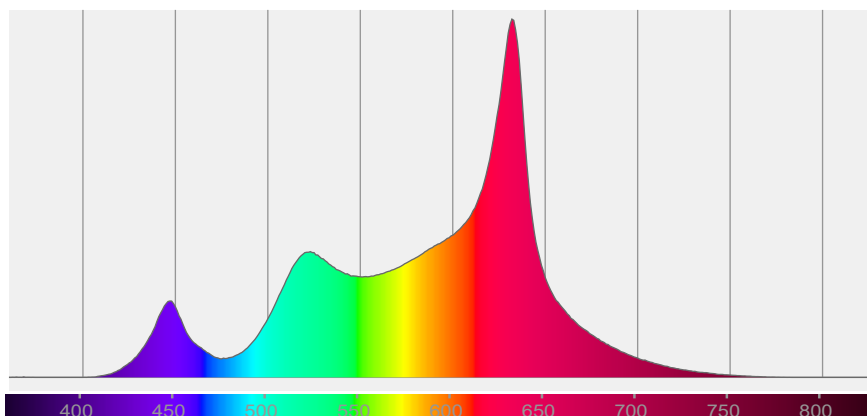


Beam angle 50%: 58,7°

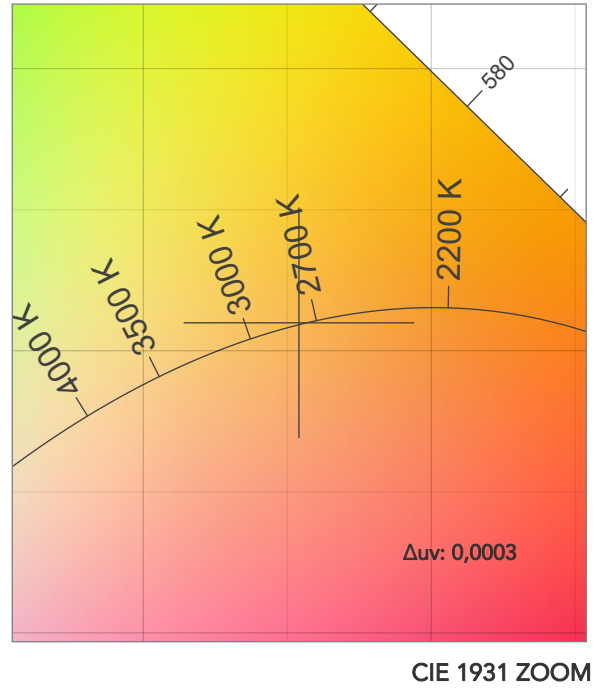
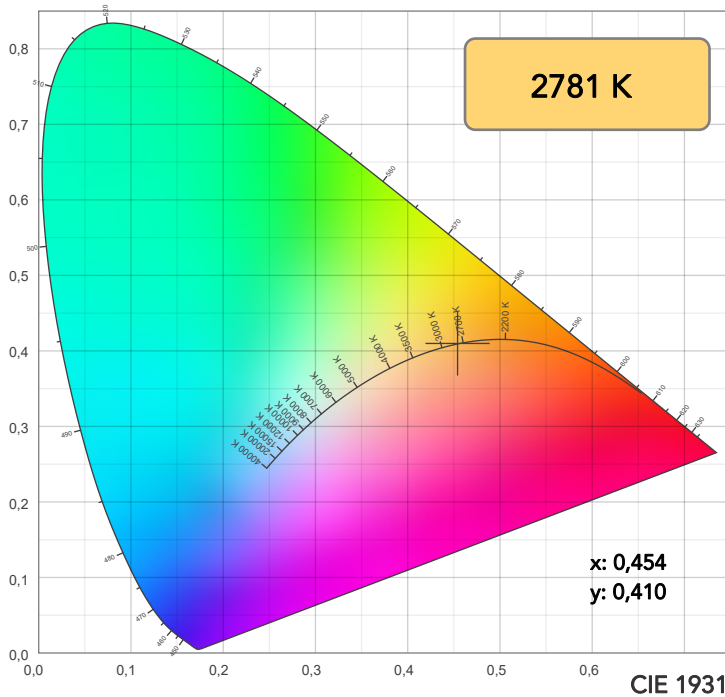
Field angle 10%: 87,6°

Cut off angle 2.5%: 108,5°

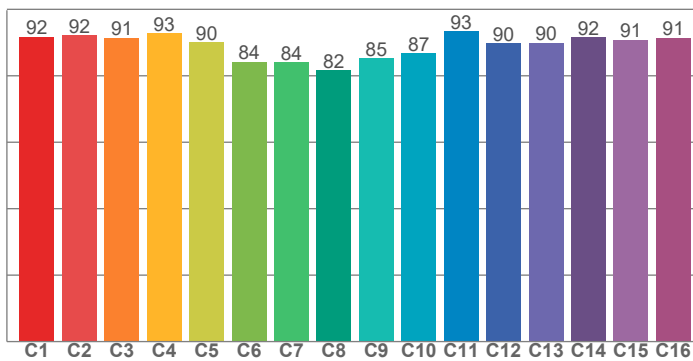
**Spectra**



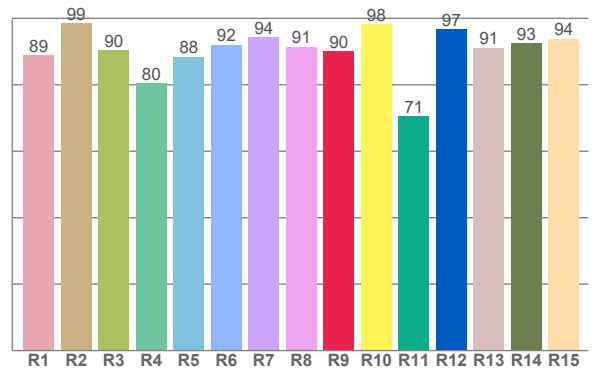
## COLOR DETAILS



TM30: 89,8



CRI: 90,6 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
89,0	98,5	90,4	80,4	88,4	92,0	94,3	91,5	90,1	98,2	70,6	96,7	91,1	92,5	93,9

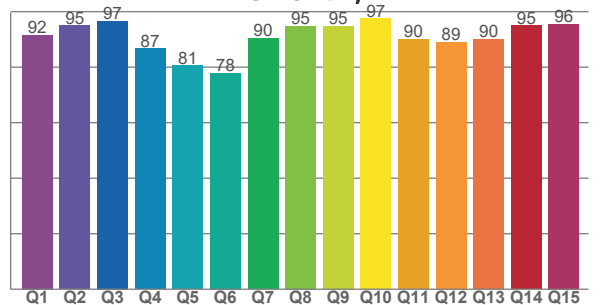
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,7	92,2	91,5	92,8	90,1	84,1	84,0	81,6	85,3	86,8	93,4	89,8	89,9	91,6	90,8	91,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,7	94,9	96,6	86,6	80,6	77,9	90,4	94,8	94,8	97,5	90,0	89,0	90,0	94,9	95,6

CQS: 89,1



## COLOR PARAMETERS

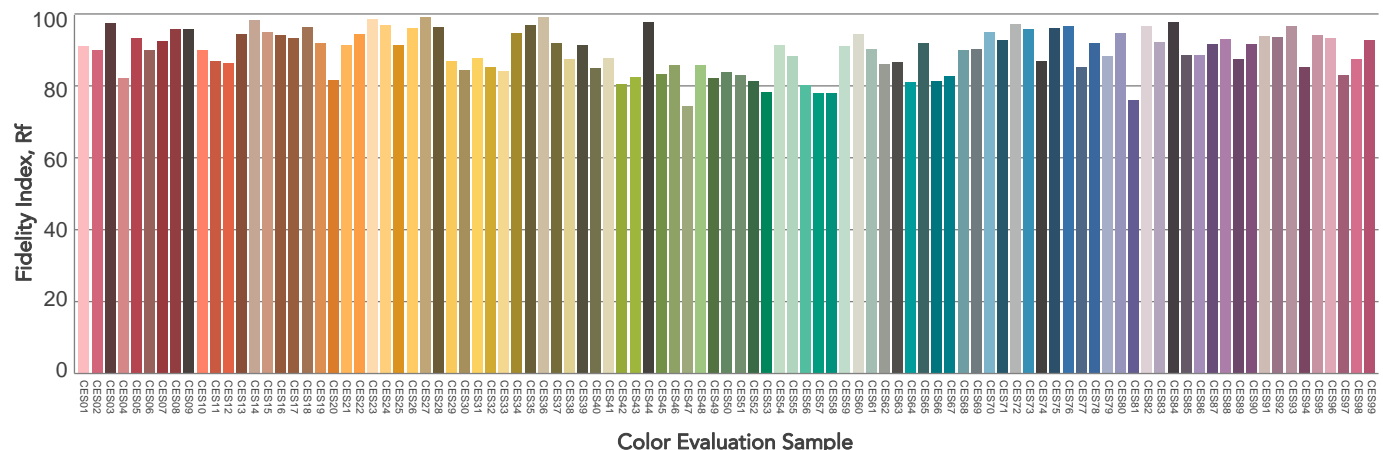
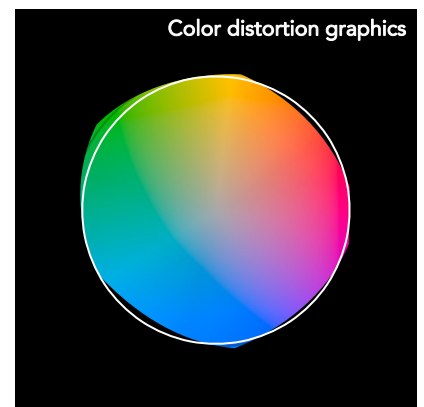
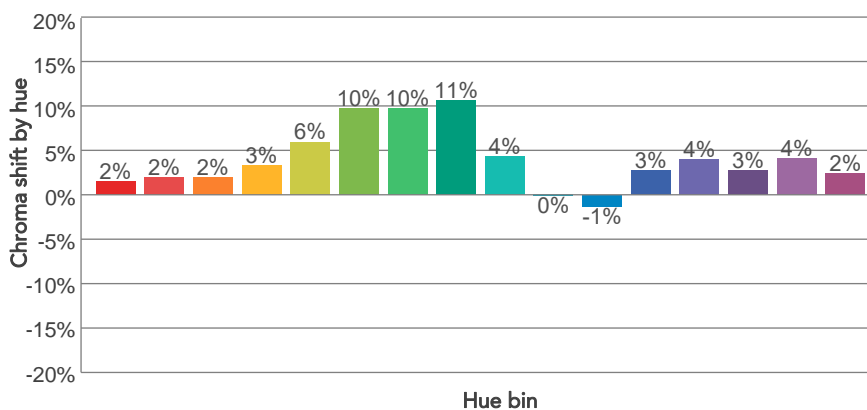
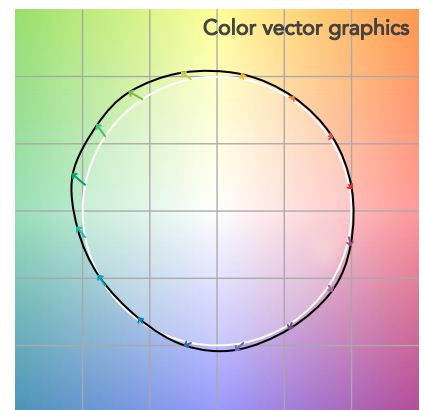
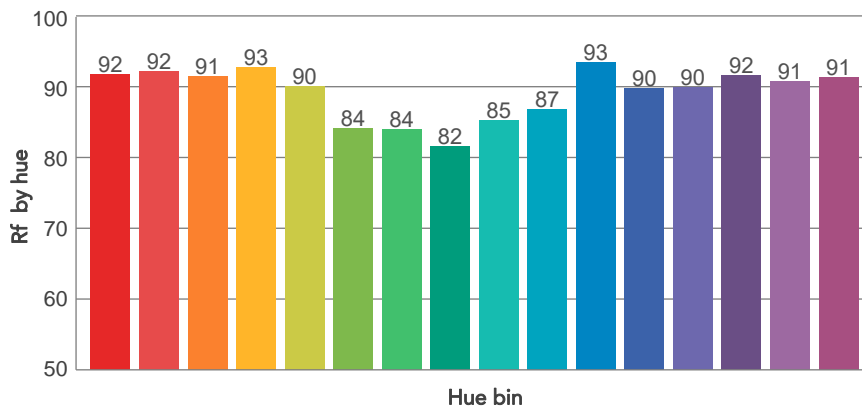
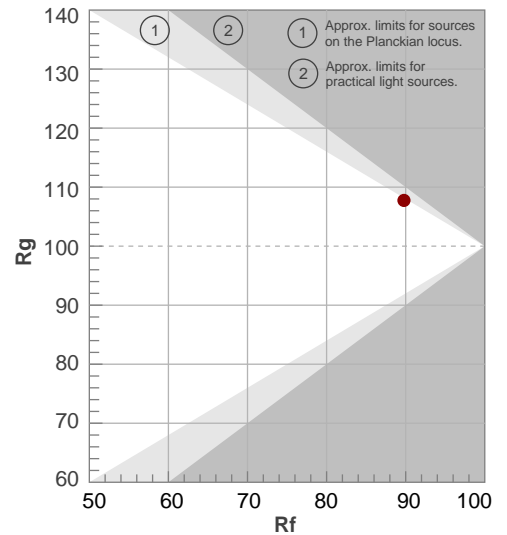
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2781 K	90,6	90,1	89,8	107,7	89,1	73	0,454	0,410	0,0003

# TM30 DETAILS

**Rf 89,8**  
Fidelity index Rf

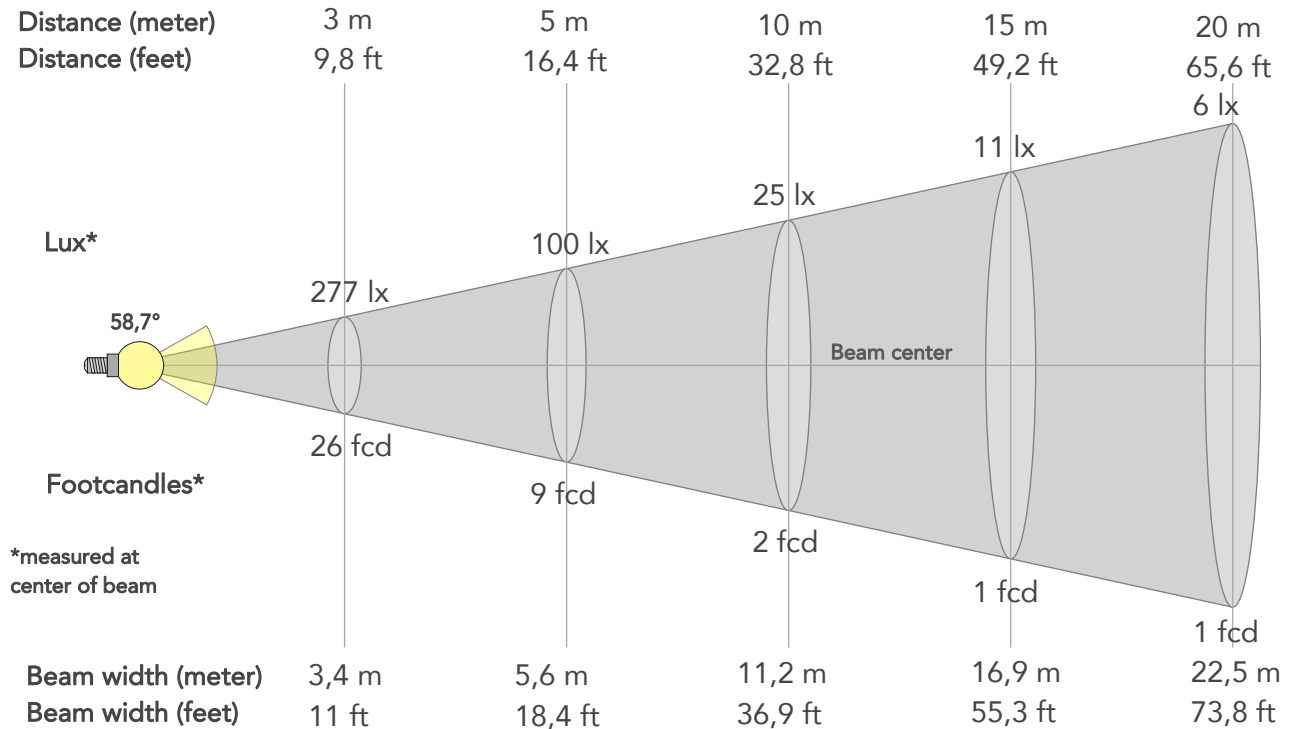
**Rg 107,7**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	2%	-3%
2	92	2%	-2%
3	91	2%	0%
4	93	3%	2%
5	90	6%	6%
6	84	10%	5%
7	84	10%	-3%
8	82	11%	-6%
9	85	4%	-8%
10	87	0%	-9%
11	93	-1%	-4%
12	90	3%	-4%
13	90	4%	-6%
14	92	3%	-4%
15	91	4%	-2%
16	91	2%	-5%



# BEAM DETAILS

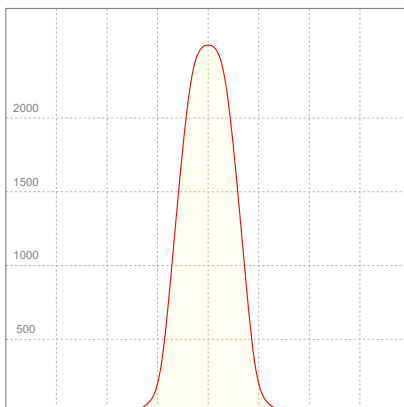
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58,7°	87,6°	108,5°	99,3%	94,4%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2492lx	623lx	277lx	156lx	100lx	44lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	232fcd	58fcd	26fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,4m	4,5m	5,6m	8,4m	11,2m	16,9m	22,5m	28,1m	33,7m	45m	56,2m
Beam wid.	3,7ft	7,4ft	11ft	14,7ft	18,4ft	27,7ft	36,9ft	55,3ft	73,8ft	92,2ft	110,6ft	147,5ft	184,4ft

## LINEAR DISTRIBUTION DIAGRAM

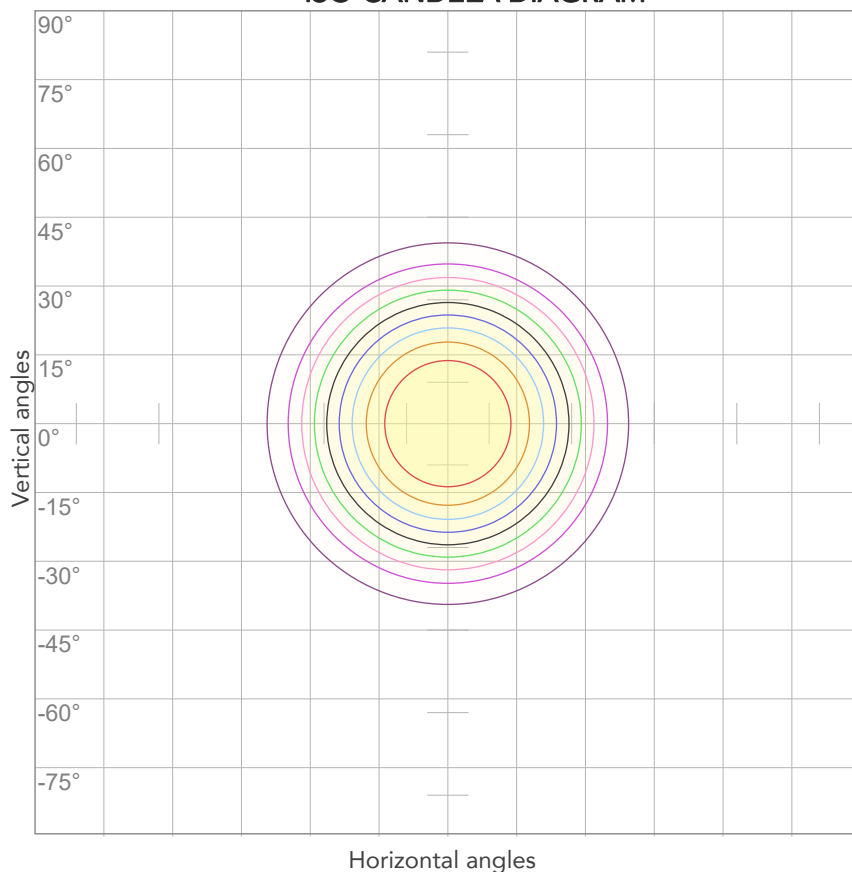


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,277A	56,0W	0,9	41lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



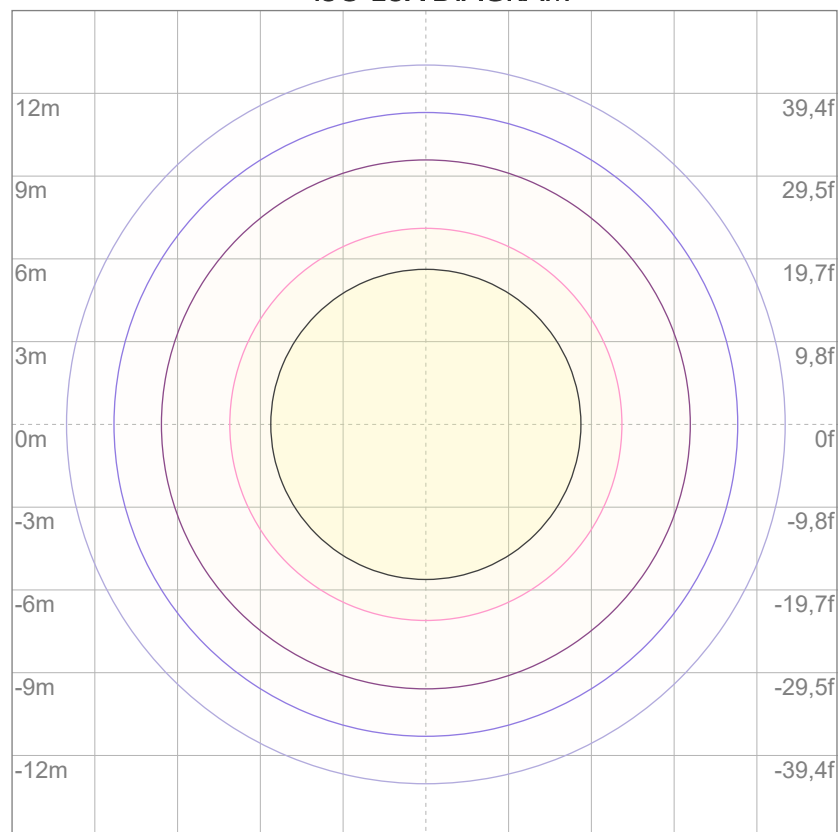
10%	249 cd
20%	498 cd
30%	748 cd
40%	997 cd
50%	1246 cd
60%	1495 cd
70%	1745 cd
80%	1994 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2492 cd

## ISO LUX DIAGRAM



3%	0,748 lx
5%	1,25 lx
10%	2,49 lx
30%	7,48 lx
50%	12,5 lx

### Conditions:

Number of c-planes: 2

Lux at center: 24,9 lx

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





Total lumen output:

2282 lm

Peak candela output:

2462 cd

Light quality:

CRI: 92,4

Color temperature:

3201 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wide Lens

Target:

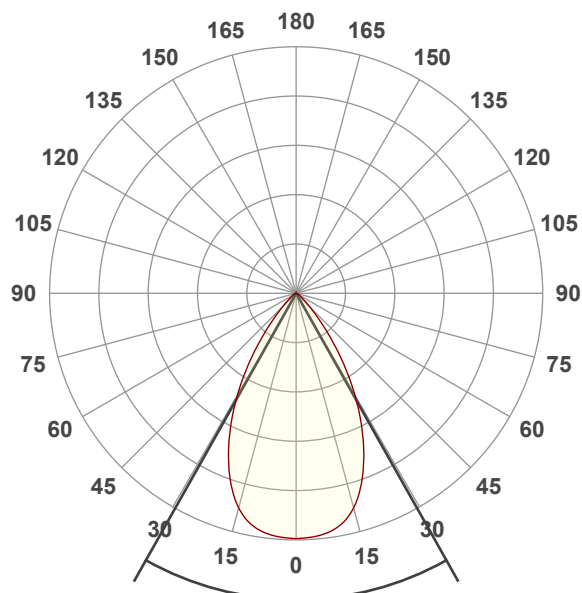
3200K

Operator:

Salvatore Giglio

Date and time:

21/11/2023 11:33:12

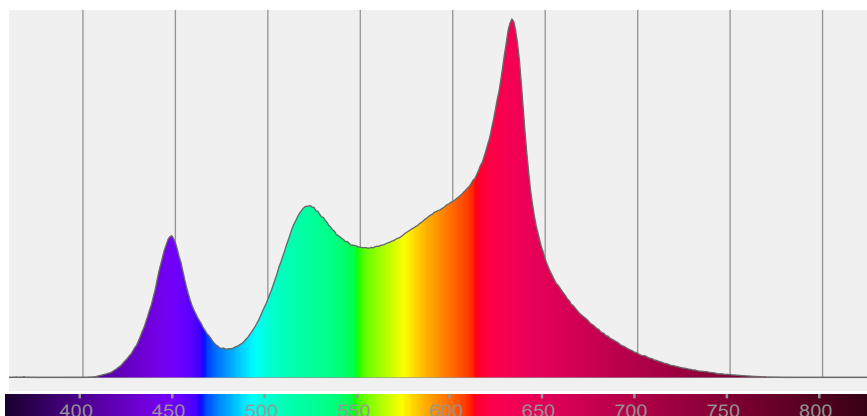


Beam angle 50%: 58,7°

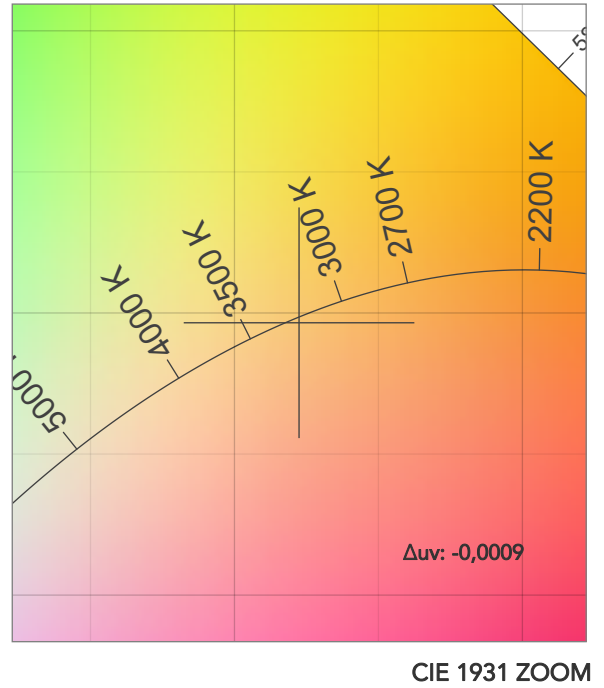
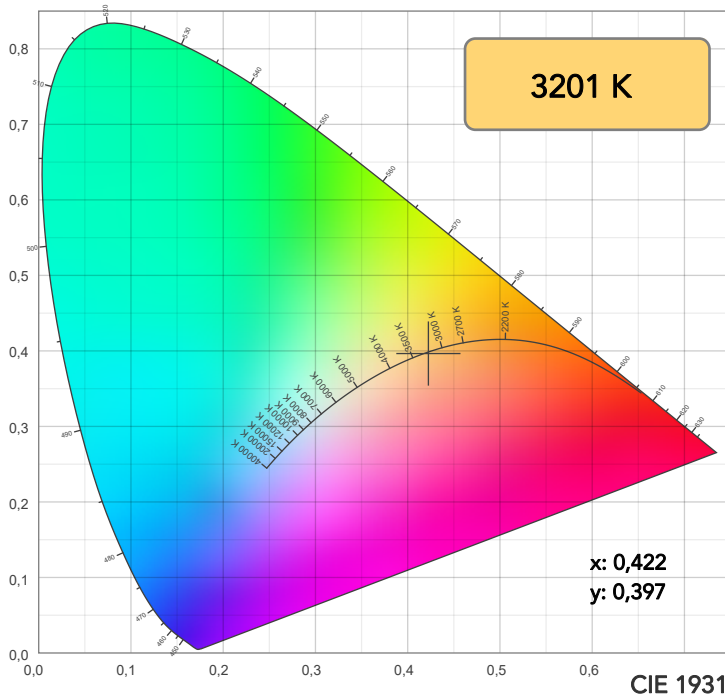
Field angle 10%: 87,5°

Cut off angle 2.5%: 108°

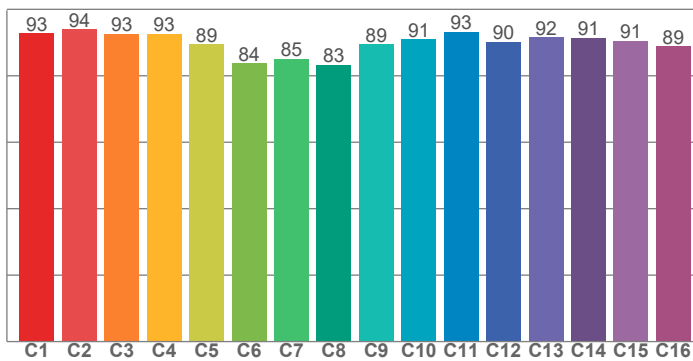
**Spectra**



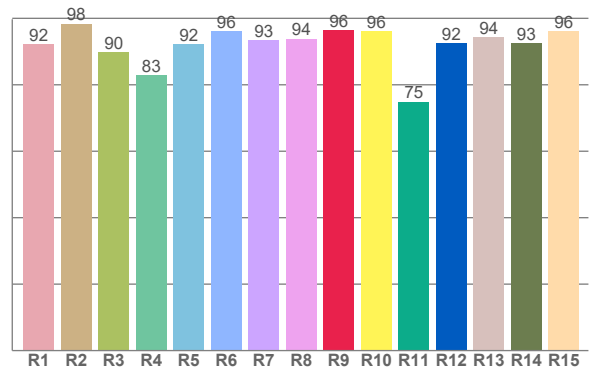
# COLOR DETAILS



TM30: 90,5



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
92,3	98,4	89,8	83,0	92,1	96,2	93,4	93,9	96,5	96,1	74,9	92,4	94,4	92,5	96,2

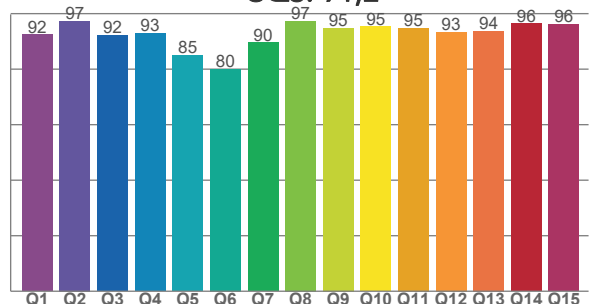
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,7	94,0	92,7	92,7	89,4	83,8	85,0	83,2	89,4	90,9	93,3	90,2	91,5	91,4	90,5	88,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,4	97,4	92,2	92,9	85,0	80,1	89,5	97,4	94,8	95,4	94,9	93,4	93,7	96,4	96,1

CQS: 91,2



## COLOR PARAMETERS

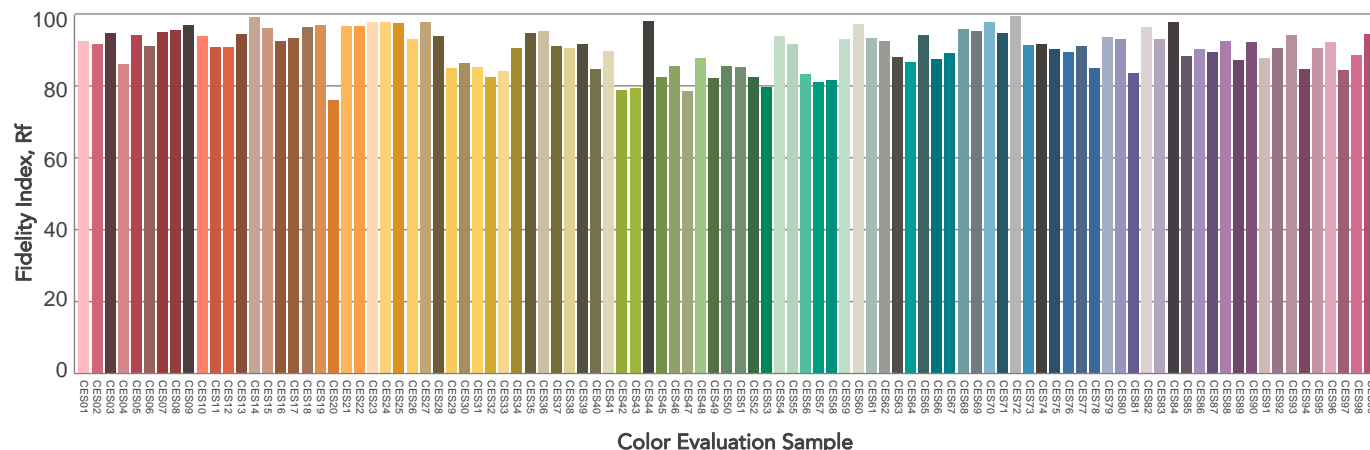
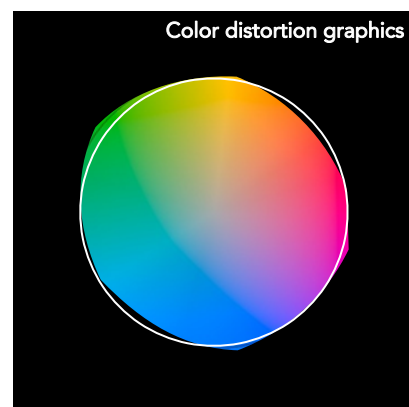
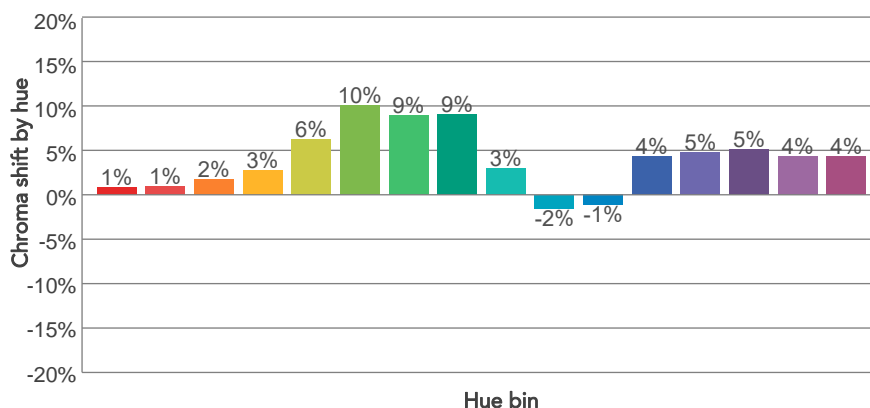
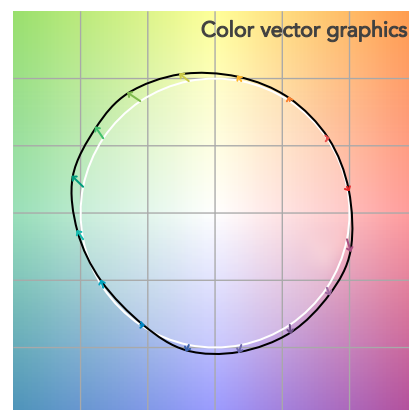
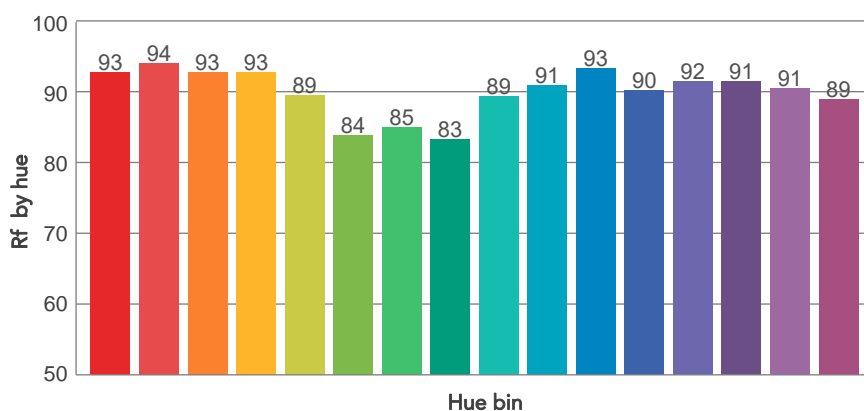
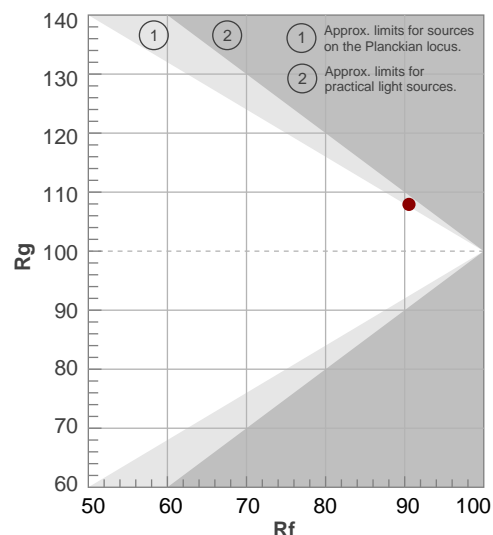
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
3201 K	92,4	96,5	90,5	107,9	91,2	77	0,422	0,397	-0,0009

# TM30 DETAILS

**Rf 90,5**  
Fidelity index Rf

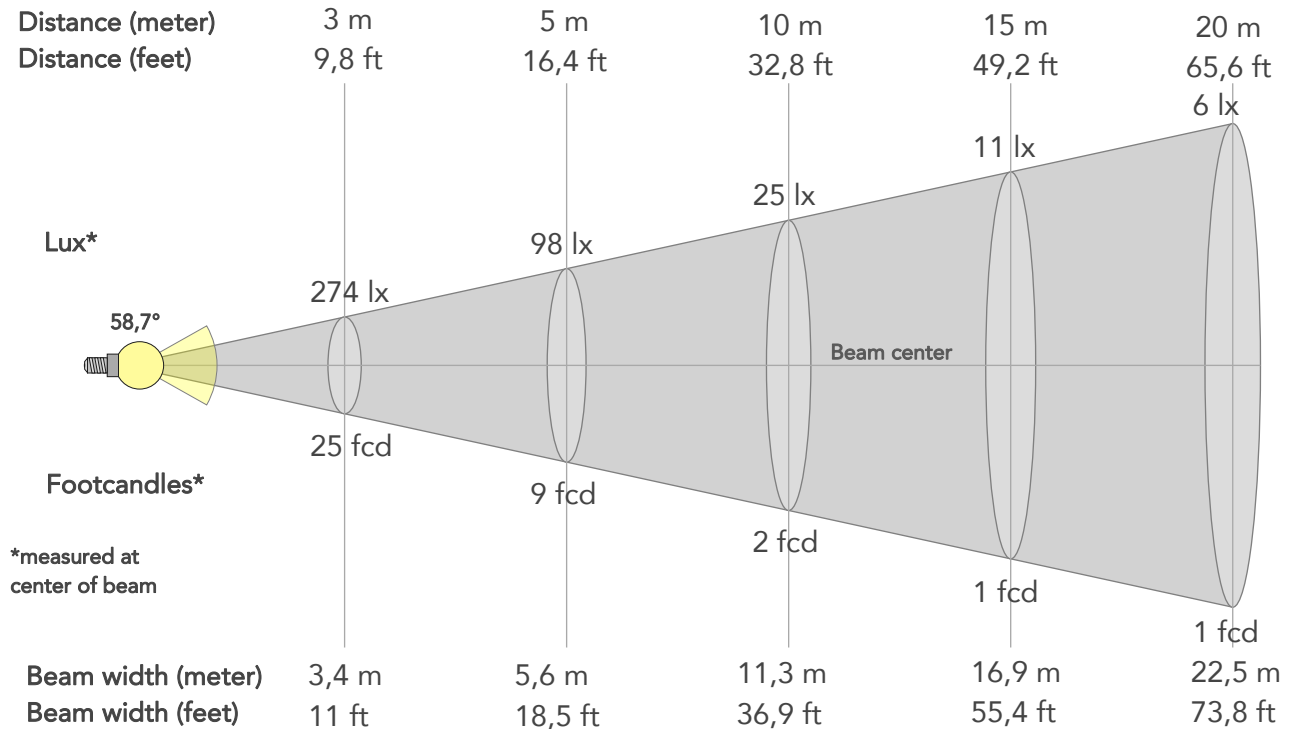
**Rg 107,9**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	1%	-3%
2	94	1%	-1%
3	93	2%	2%
4	93	3%	3%
5	89	6%	5%
6	84	10%	4%
7	85	9%	-4%
8	83	9%	-6%
9	89	3%	-7%
10	91	-2%	-5%
11	93	-1%	2%
12	90	4%	-1%
13	92	5%	-3%
14	91	5%	-3%
15	91	4%	-3%
16	89	4%	-8%



# BEAM DETAILS

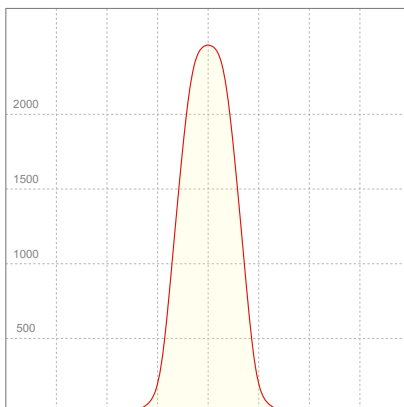
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58,7°	87,5°	108°	99,4%	94,7%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2462lx	616lx	274lx	154lx	98lx	44lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	229fcd	57fcd	25fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,5m	5,6m	8,4m	11,3m	16,9m	22,5m	28,1m	33,8m	45m	56,3m
Beam wid.	3,7ft	7,4ft	11ft	14,7ft	18,5ft	27,7ft	36,9ft	55,4ft	73,8ft	92,3ft	110,8ft	147,7ft	184,6ft

## LINEAR DISTRIBUTION DIAGRAM

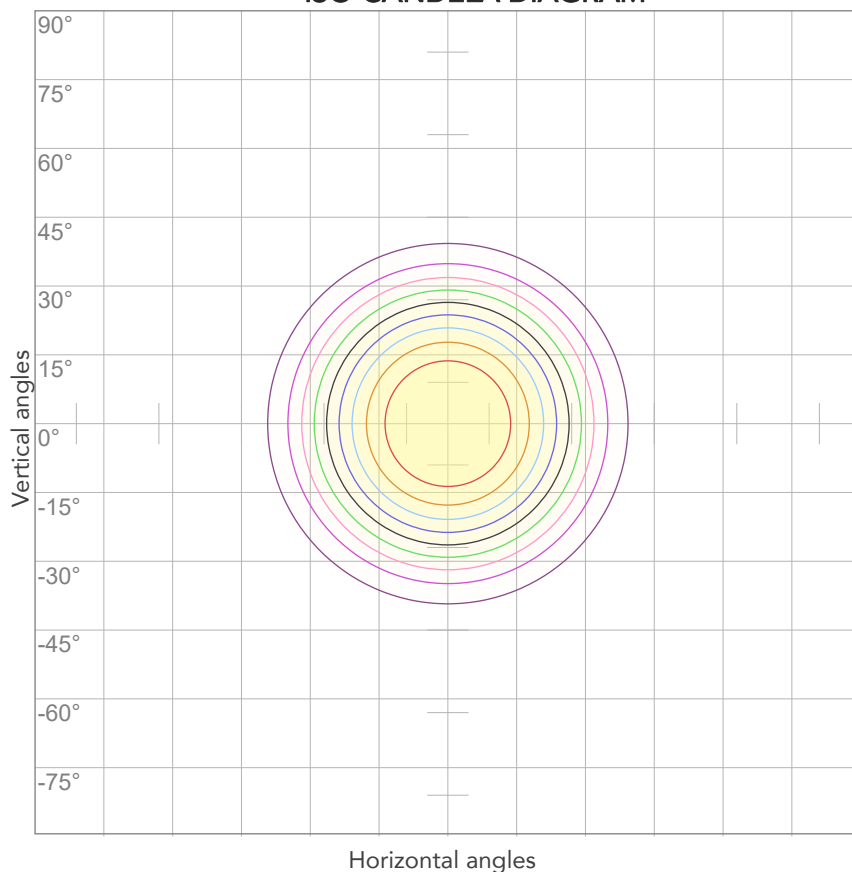


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
224V	0,279A	56,2W	0,9	41lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



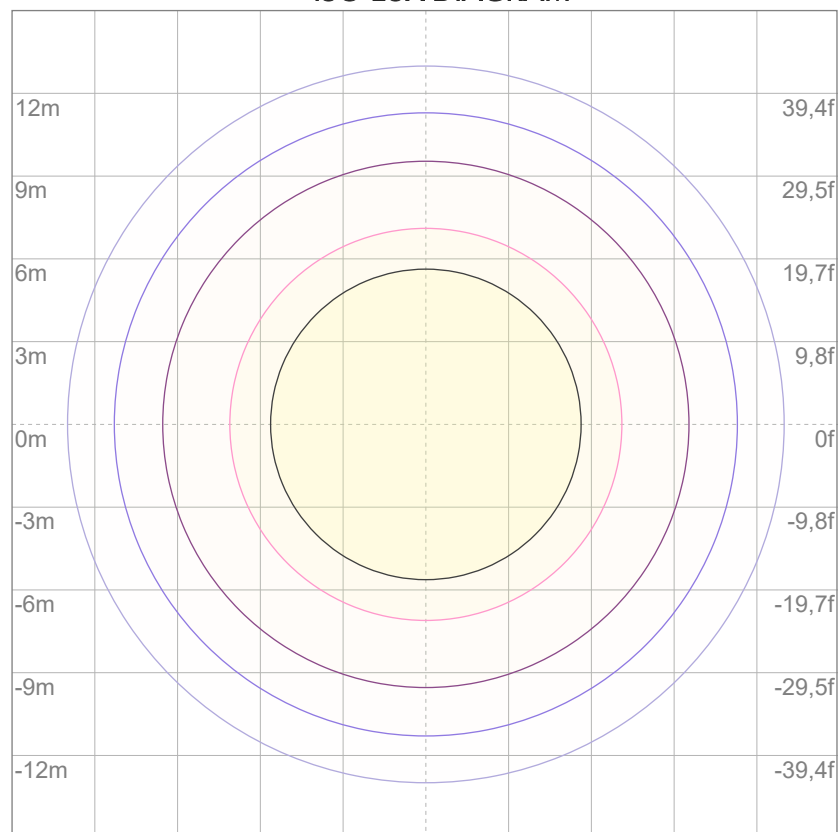
10%	246 cd
20%	492 cd
30%	739 cd
40%	985 cd
50%	1231 cd
60%	1477 cd
70%	1724 cd
80%	1970 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2462 cd

## ISO LUX DIAGRAM



3%	0,739 lx
5%	1,23 lx
10%	2,46 lx
30%	7,39 lx
50%	12,3 lx

### Conditions:

Number of c-planes: 2

Lux at center: 24,6 lx

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



Total lumen output:

2474 lm

Peak candela output:

2594 cd

Light quality:

CRI: 91,6

Color temperature:

4053 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wide Lens

Target:

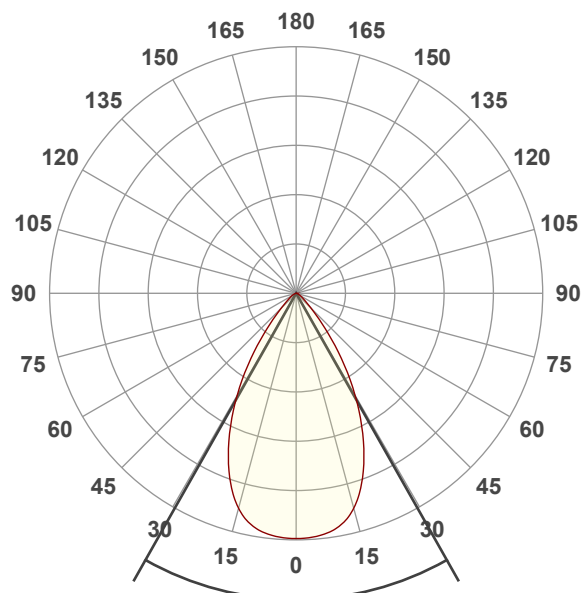
4000K

Operator:

Salvatore Giglio

Date and time:

21/11/2023 11:41:19

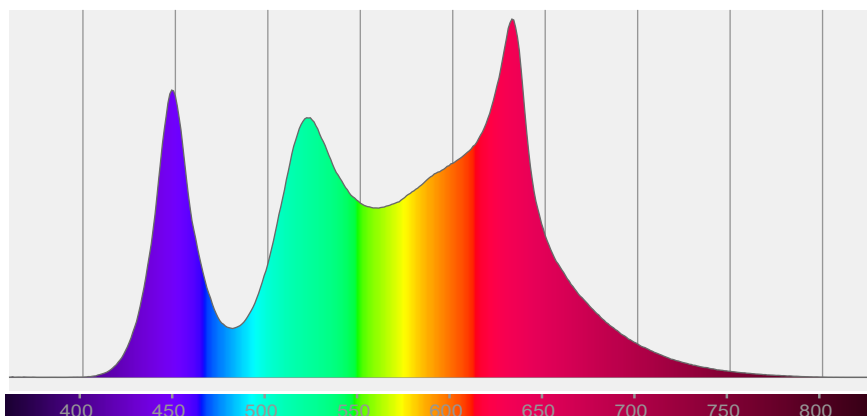


Beam angle 50%: 58,9°

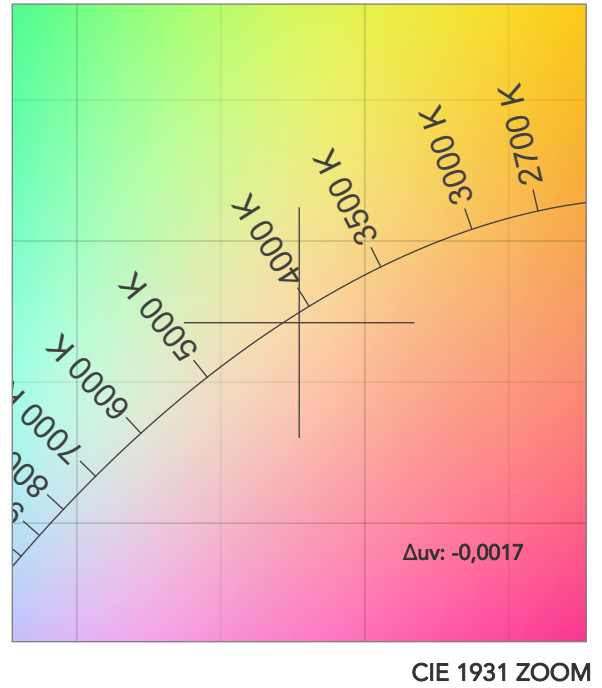
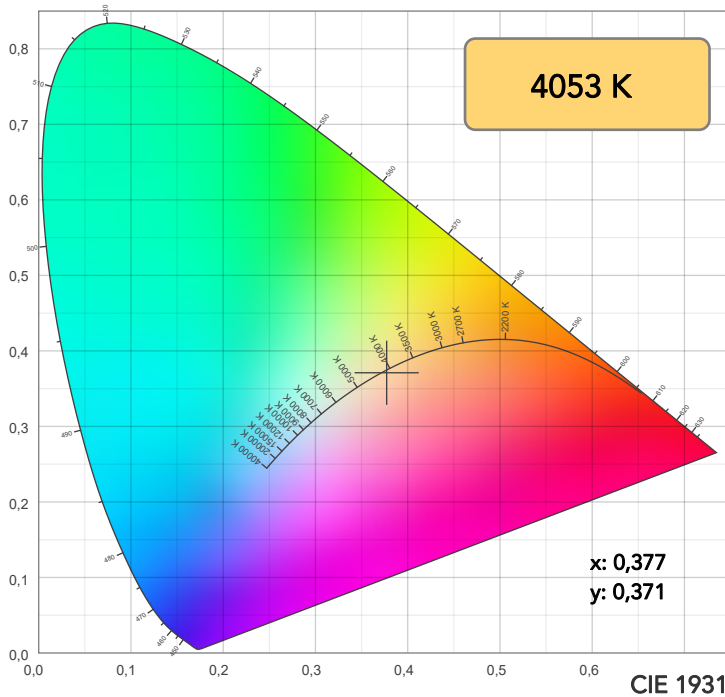
Field angle 10%: 88,2°

Cut off angle 2.5%: 114,6°

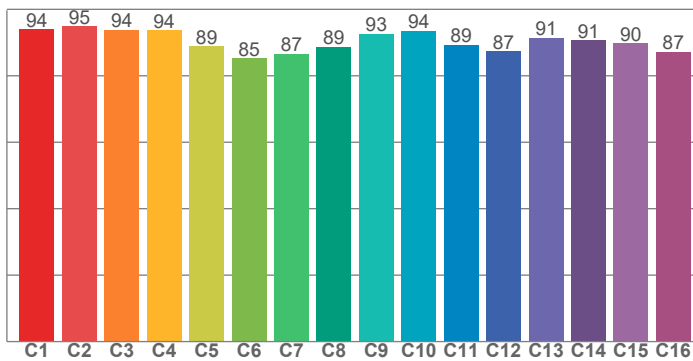
**Spectra**



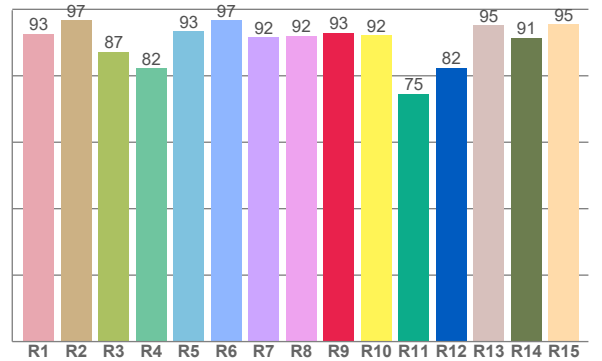
# COLOR DETAILS



TM30: 90,8



CRI: 91,6 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,7	96,8	87,2	82,3	93,5	96,8	91,7	92,0	92,9	92,3	74,6	82,4	95,2	91,5	95,5

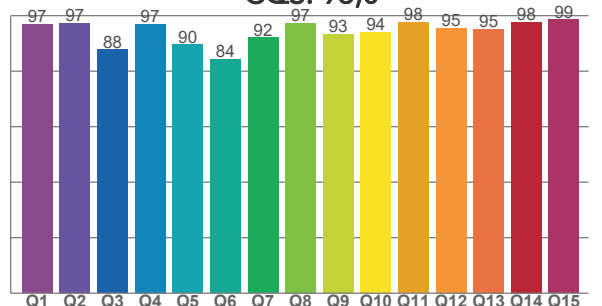
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,9	94,9	93,8	93,6	88,9	85,2	86,5	88,7	92,7	93,5	89,4	87,3	91,4	90,7	89,8	87,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,9	97,4	87,8	97,0	89,6	84,3	92,0	97,4	93,4	94,2	97,6	95,5	95,1	97,7	98,5

CQS: 93,0



## COLOR PARAMETERS

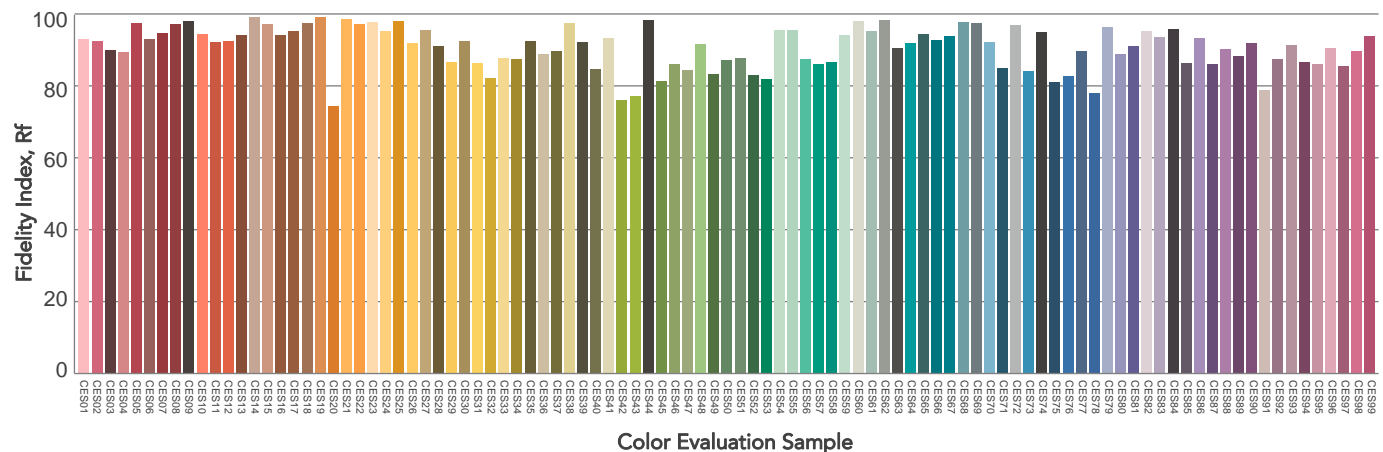
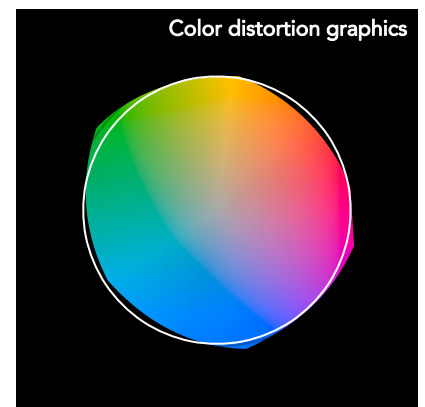
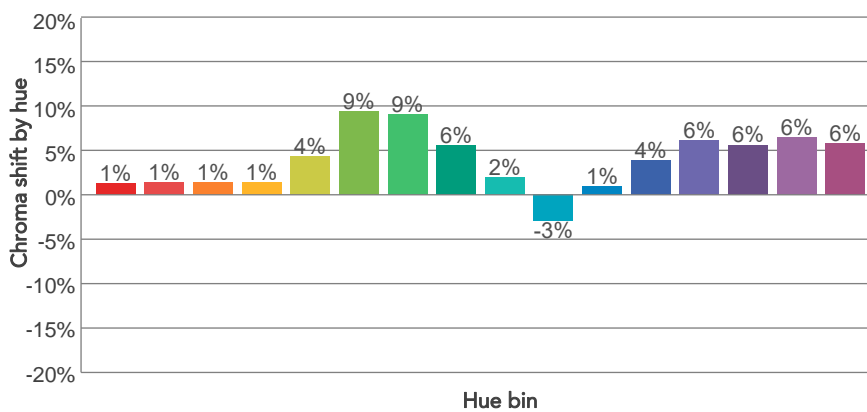
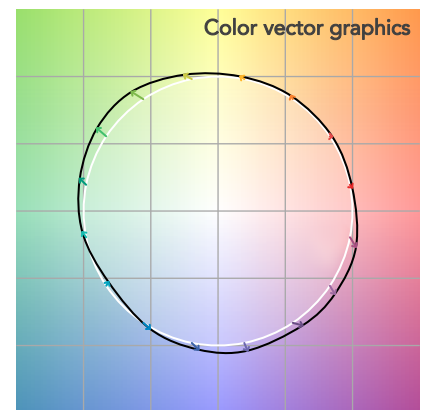
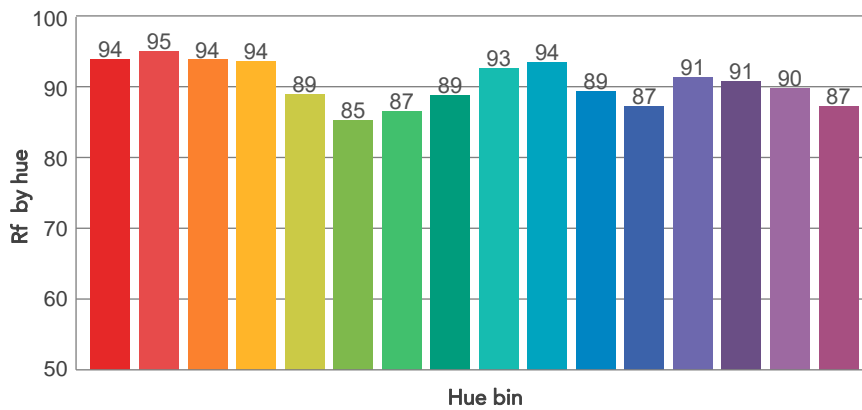
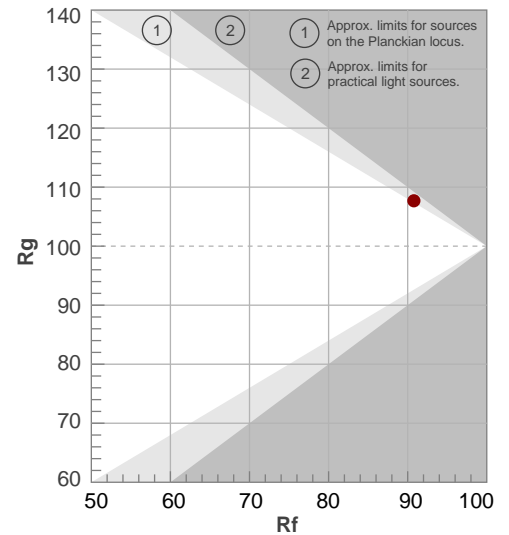
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4053 K	91,6	92,9	90,8	107,7	93,0	80	0,377	0,371	-0,0017

# TM30 DETAILS

**Rf 90,8**  
Fidelity index Rf

**Rg 107,7**  
Gammut index

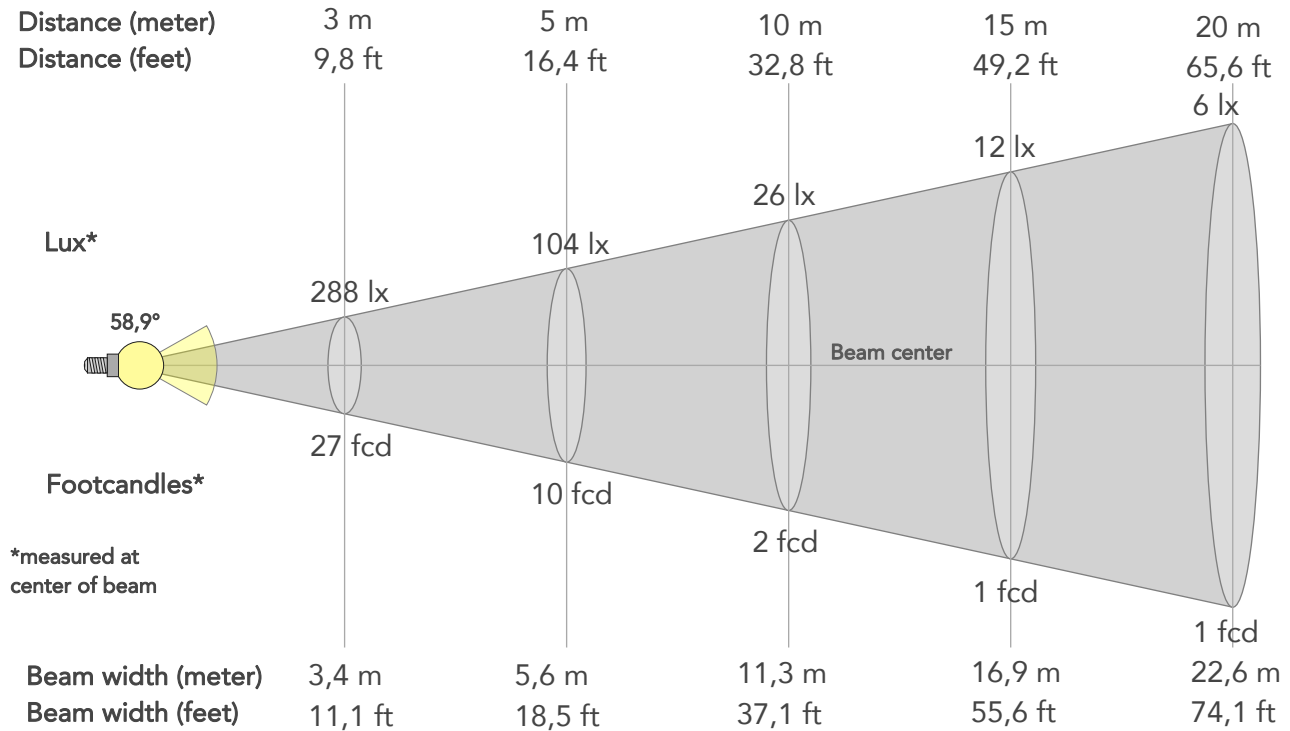
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-2%
2	95	1%	-1%
3	94	1%	3%
4	94	1%	3%
5	89	4%	5%
6	85	9%	4%
7	87	9%	-1%
8	89	6%	-4%
9	93	2%	-4%
10	94	-3%	-2%
11	89	1%	7%
12	87	4%	6%
13	91	6%	1%
14	91	6%	5%
15	90	6%	-3%
16	87	6%	-6%





# BEAM DETAILS

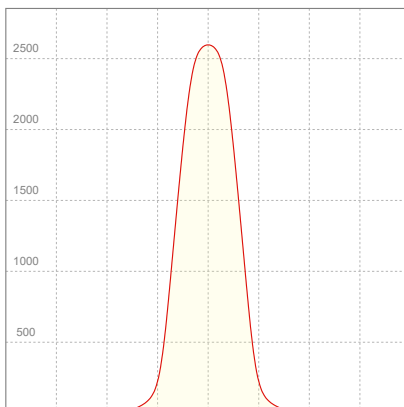
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58,9°	88,2°	114,6°	98,3%	92,7%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2594lx	649lx	288lx	162lx	104lx	46lx	26lx	12lx	6lx	4lx	3lx	2lx	1lx
Footcand.	241fcd	60fcd	27fcd	15fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,5m	5,6m	8,5m	11,3m	16,9m	22,6m	28,2m	33,9m	45,2m	56,5m
Beam wid.	3,7ft	7,5ft	11,1ft	14,8ft	18,5ft	27,8ft	37,1ft	55,6ft	74,1ft	92,6ft	111,2ft	148,2ft	185,3ft

## LINEAR DISTRIBUTION DIAGRAM

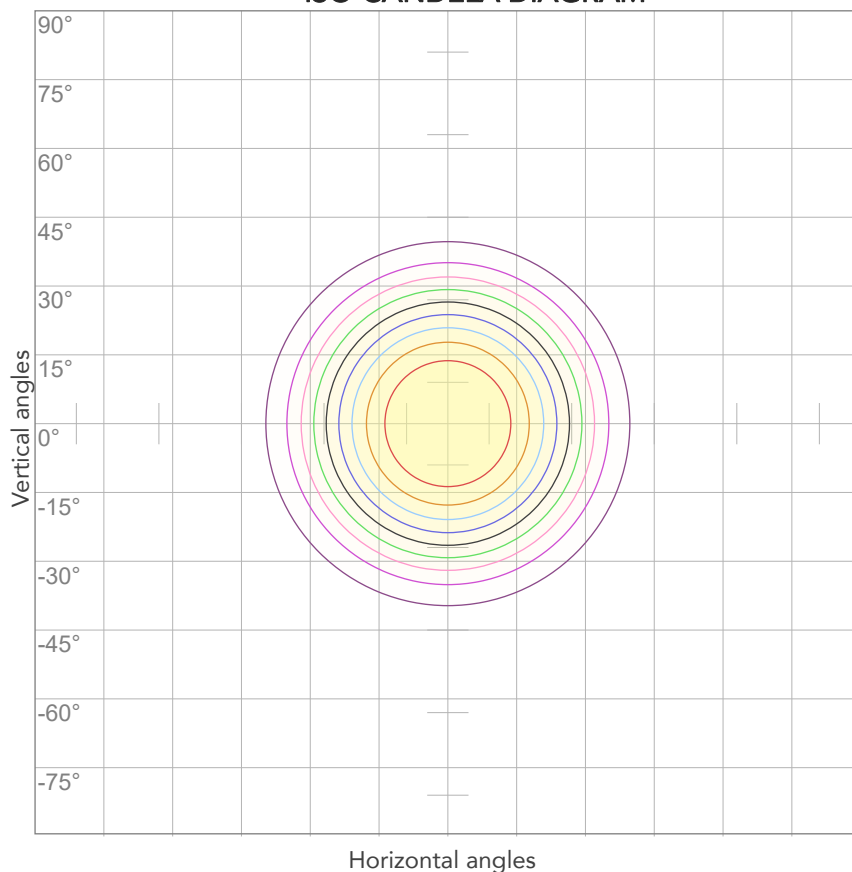


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,296A	60,3W	0,91	41lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



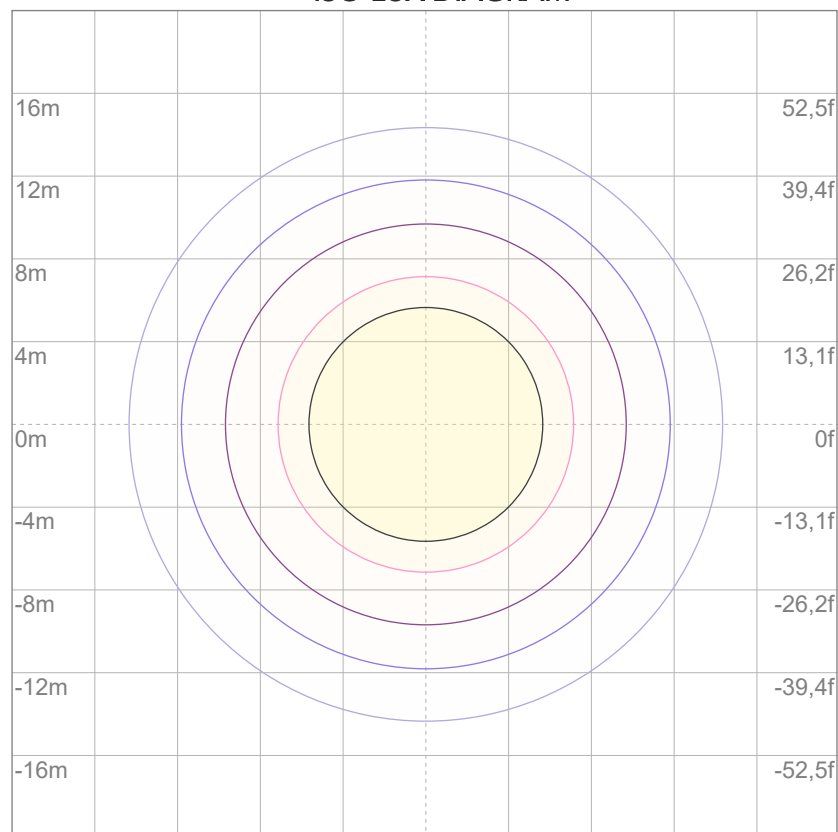
10%	259 cd
20%	519 cd
30%	778 cd
40%	1038 cd
50%	1297 cd
60%	1557 cd
70%	1816 cd
80%	2075 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2594 cd

## ISO LUX DIAGRAM



3%	0,778 lx
5%	1,30 lx
10%	2,59 lx
30%	7,78 lx
50%	13,0 lx

### Conditions:

Number of c-planes: 2

Lux at center: 25,9 lx

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



Total lumen output:

2653 lm

Peak candela output:

2798 cd

Light quality:

CRI: 89,0

Color temperature:

5598 K

**PRODUCT NAME:**

ECLPARIPMFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Wide Lens

Target:

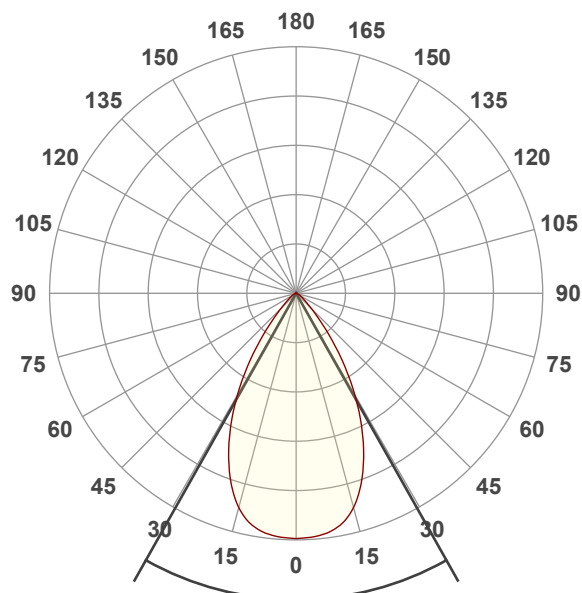
5600K

Operator:

Salvatore Giglio

Date and time:

21/11/2023 11:58:46

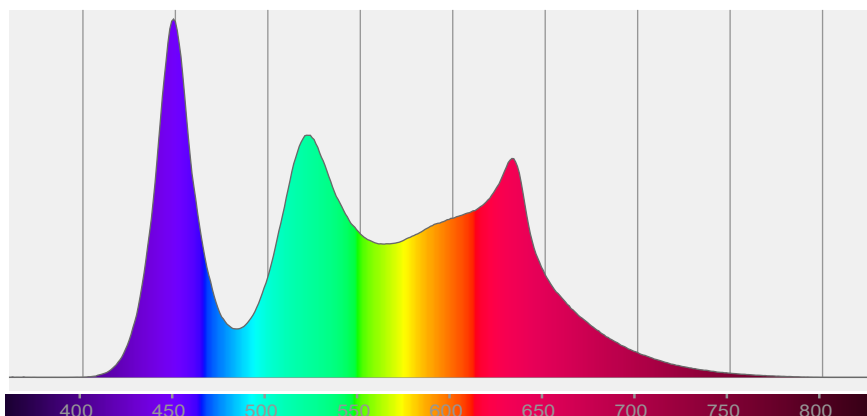


Beam angle 50%: 58,8°

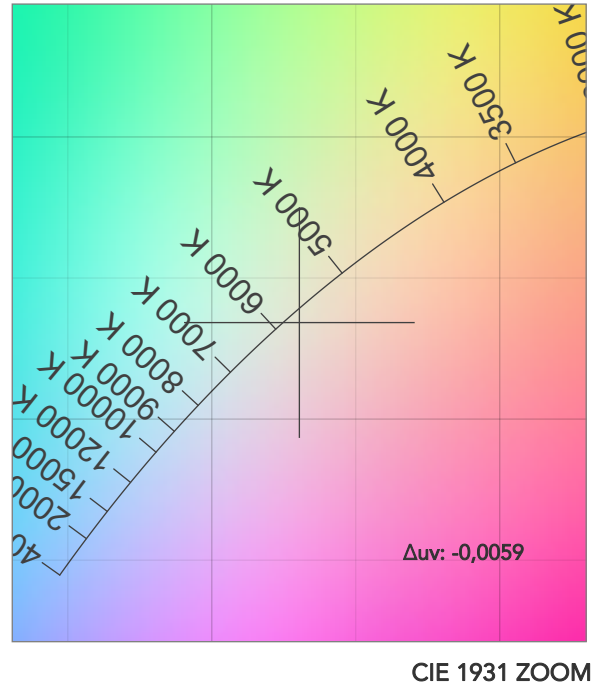
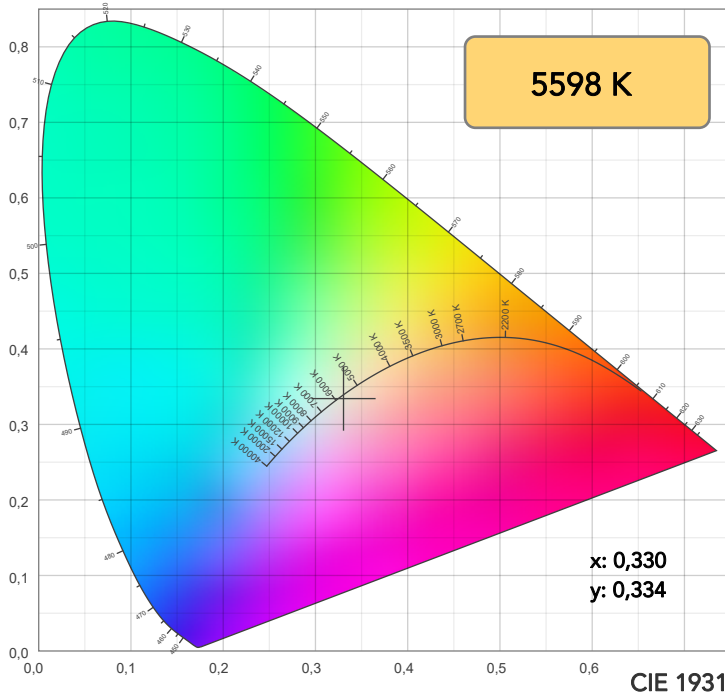
Field angle 10%: 88,5°

Cut off angle 2.5%: 113,9°

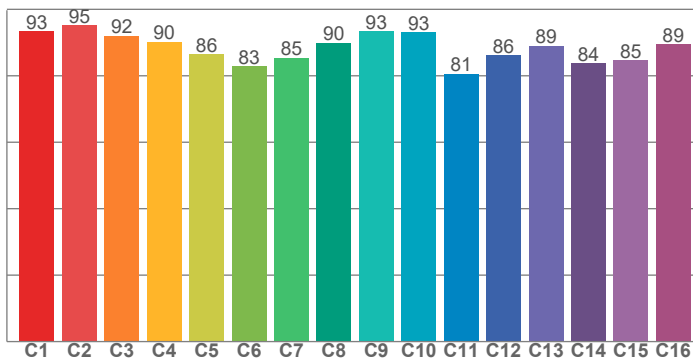
**Spectra**



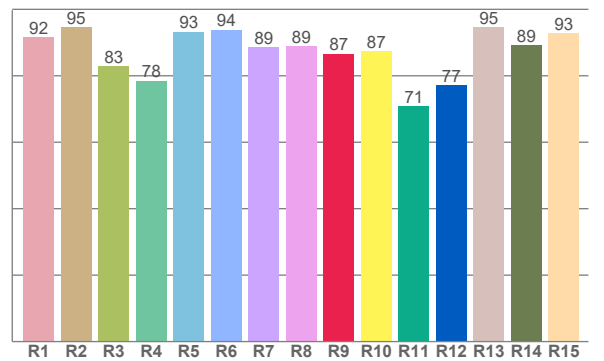
# COLOR DETAILS



**TM30: 88,5**



**CRI: 89,0 (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
91,7	94,6	82,8	78,5	93,3	93,9	88,7	88,9	86,6	87,4	70,8	77,1	94,6	89,2	92,7

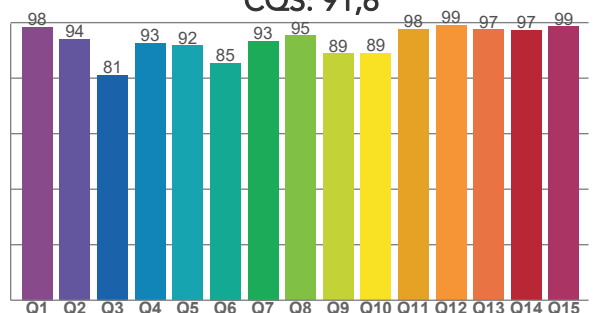
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,3	95,1	92,1	90,2	86,5	82,9	85,5	89,8	93,4	93,1	80,7	86,2	89,0	83,7	84,6	89,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,4	94,0	81,2	92,5	91,7	85,5	93,4	95,4	88,9	89,1	97,6	99,1	97,4	97,2	98,5

**CQS: 91,6**



## COLOR PARAMETERS

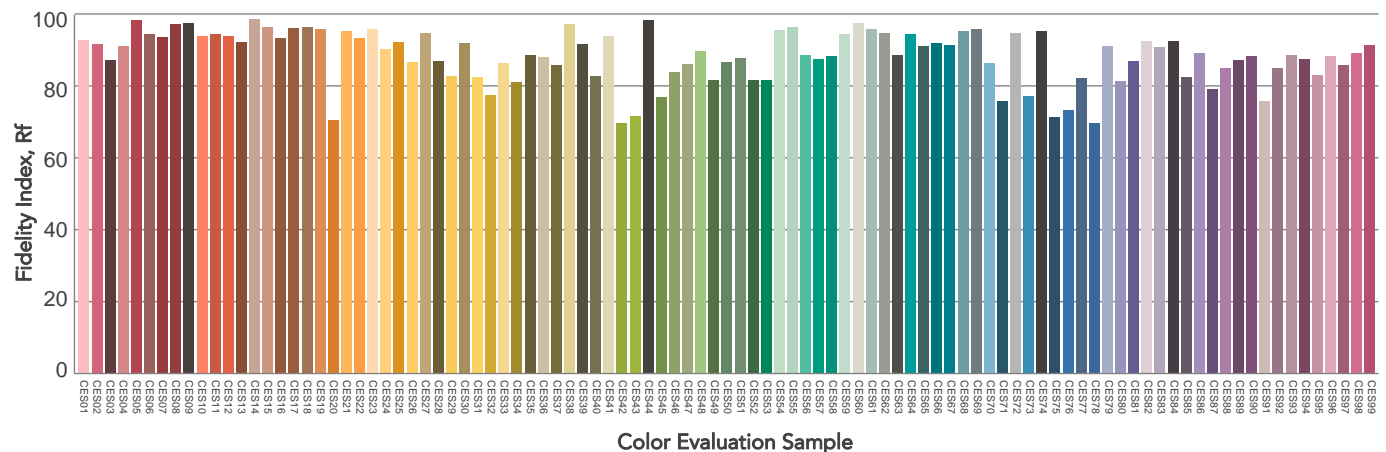
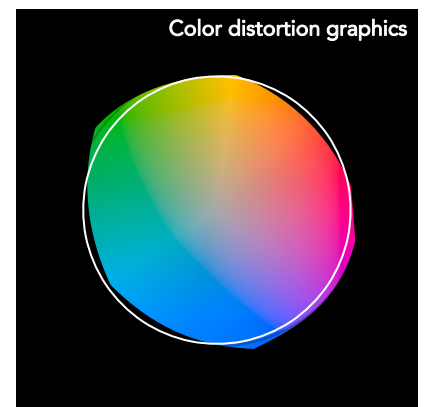
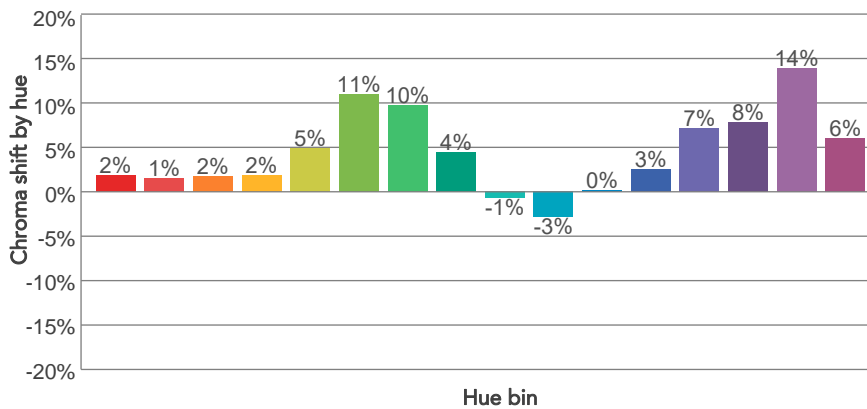
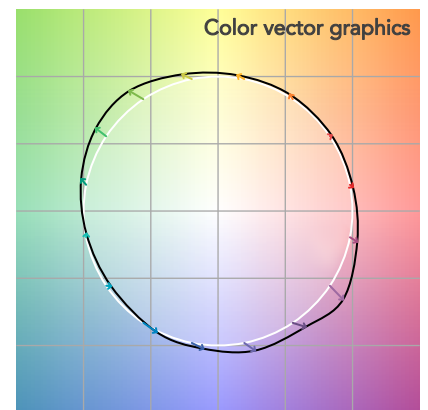
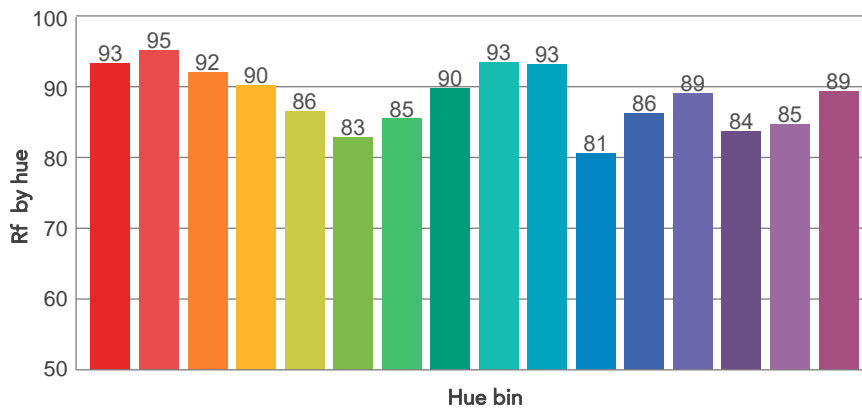
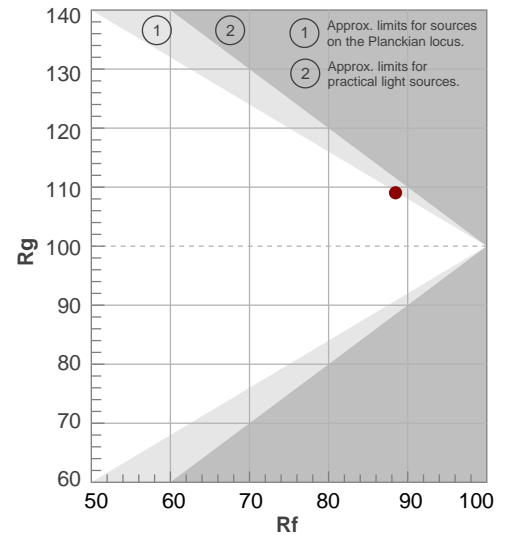
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5598 K	89,0	86,6	88,5	109,0	91,6	84	0,330	0,334	-0,0059

# TM30 DETAILS

**Rf 88,5**  
Fidelity index Rf

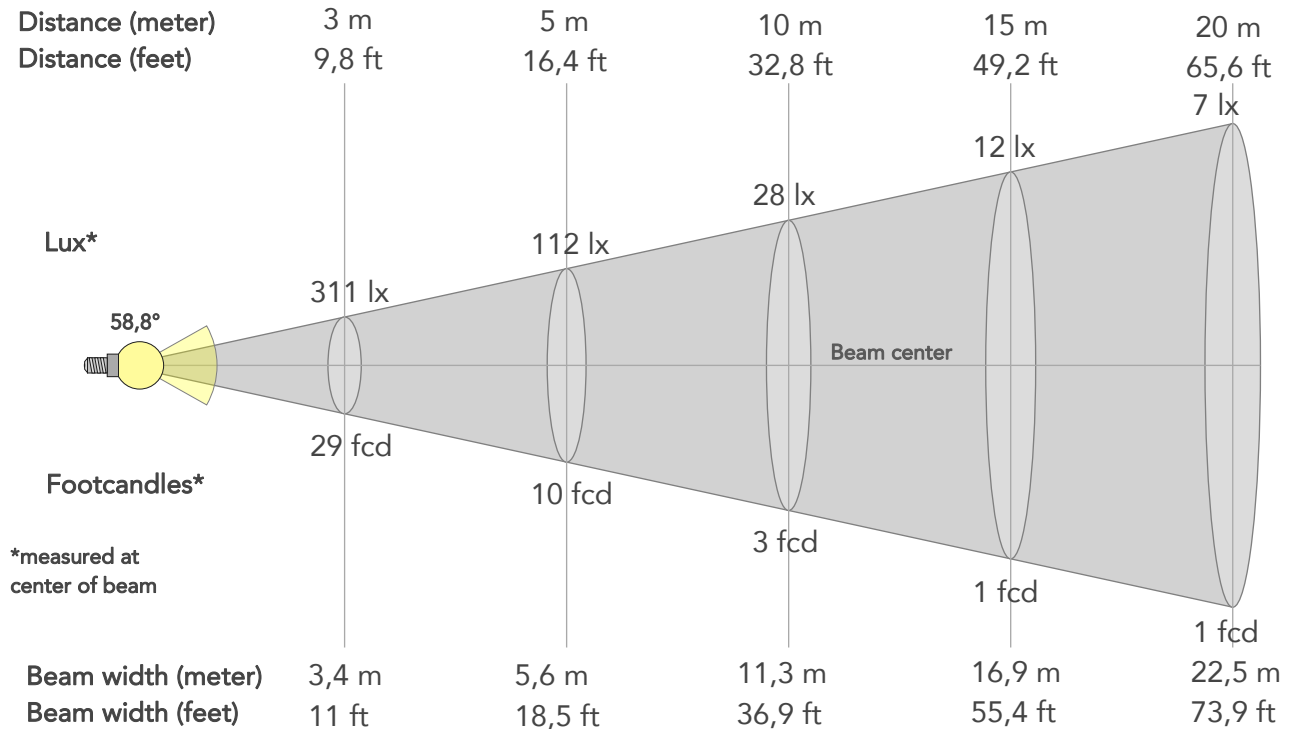
**Rg 109,0**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	95	1%	0%
3	92	2%	4%
4	90	2%	6%
5	86	5%	6%
6	83	11%	5%
7	85	10%	-1%
8	90	4%	-4%
9	93	-1%	-3%
10	93	-3%	2%
11	81	0%	12%
12	86	3%	9%
13	89	7%	7%
14	84	8%	6%
15	85	14%	-3%
16	89	6%	-2%



# BEAM DETAILS

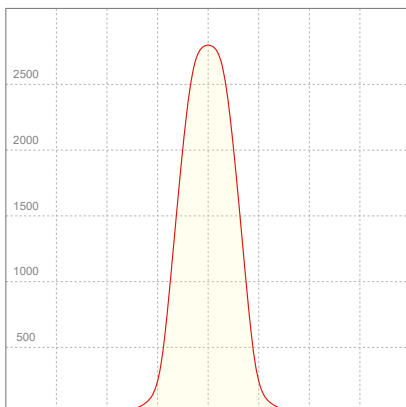
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58,8°	88,5°	113,9°	98,4%	92,8%



## 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	2798lx	699lx	311lx	175lx	112lx	50lx	28lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	260fcd	65fcd	29fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,5m	5,6m	8,4m	11,3m	16,9m	22,5m	28,1m	33,8m	45m	56,3m
Beam wid.	3,7ft	7,4ft	11ft	14,7ft	18,5ft	27,7ft	36,9ft	55,4ft	73,9ft	92,3ft	110,8ft	147,7ft	184,7ft

## LINEAR DISTRIBUTION DIAGRAM

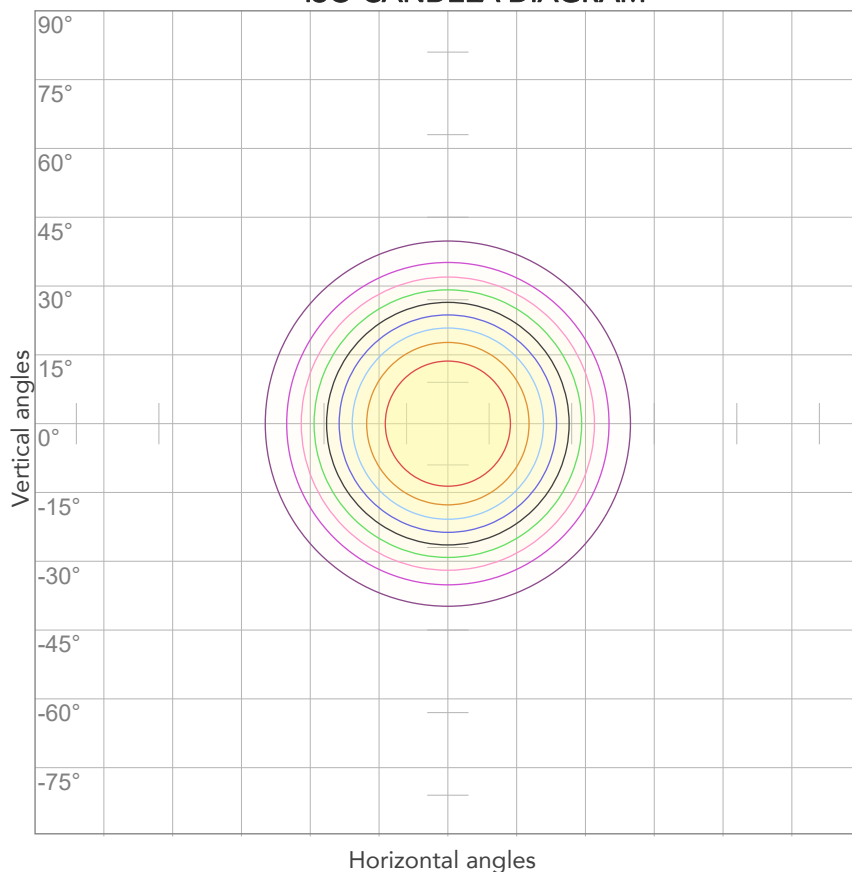


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,332A	68,2W	0,91	39lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



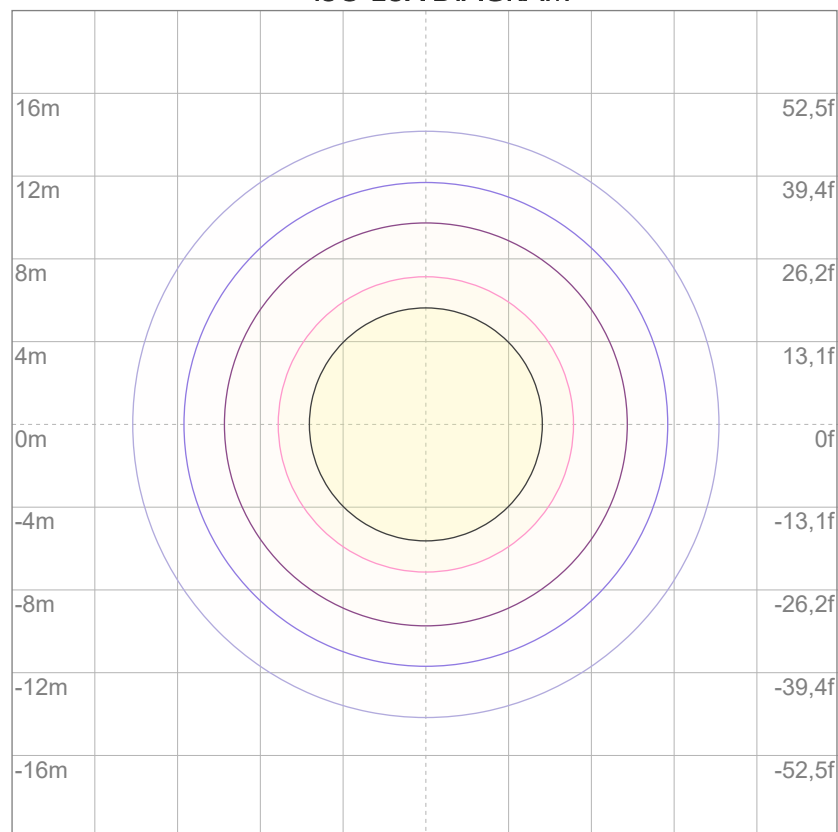
10%	280 cd
20%	560 cd
30%	839 cd
40%	1119 cd
50%	1399 cd
60%	1679 cd
70%	1958 cd
80%	2238 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2798 cd

## ISO LUX DIAGRAM



3%	0,839 lx
5%	1,40 lx
10%	2,80 lx
30%	8,39 lx
50%	14,0 lx

### Conditions:

Number of c-planes: 2

Lux at center: 28,0 lx

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



Total lumen output:

2696 lm

Peak candela output:

2824 cd

Light quality:

CRI: 88,9

Color temperature:

6009 K

PRODUCT NAME:

ECLPARIPMFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide Lens

Target:

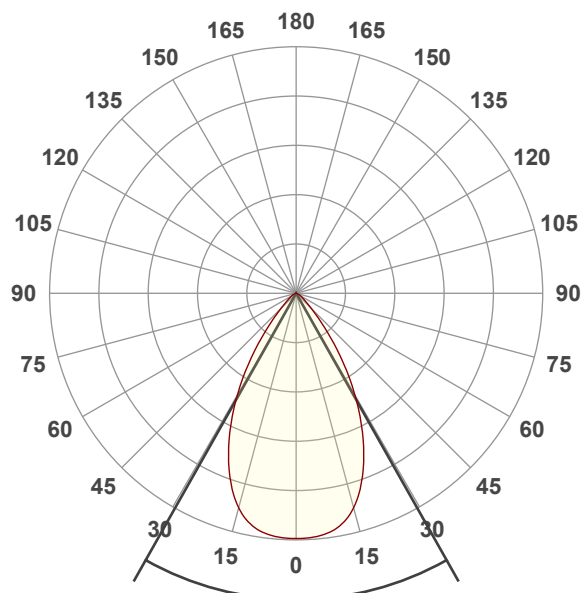
6000K

Operator:

Salvatore Giglio

Date and time:

21/11/2023 11:43:27

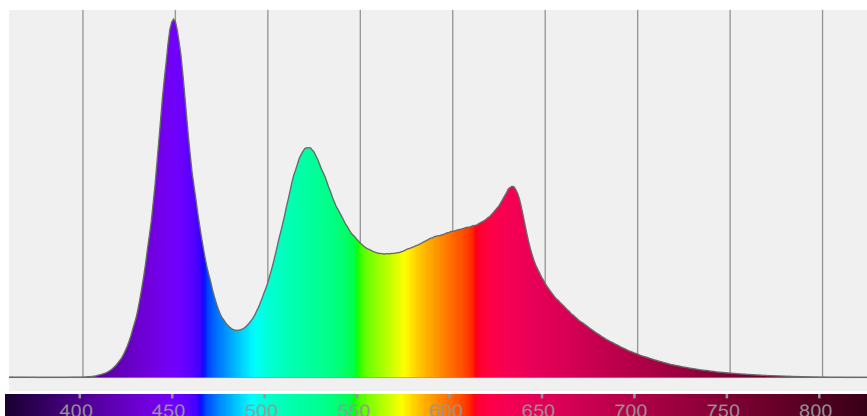


Beam angle 50%: 58,8°

Field angle 10%: 88,3°

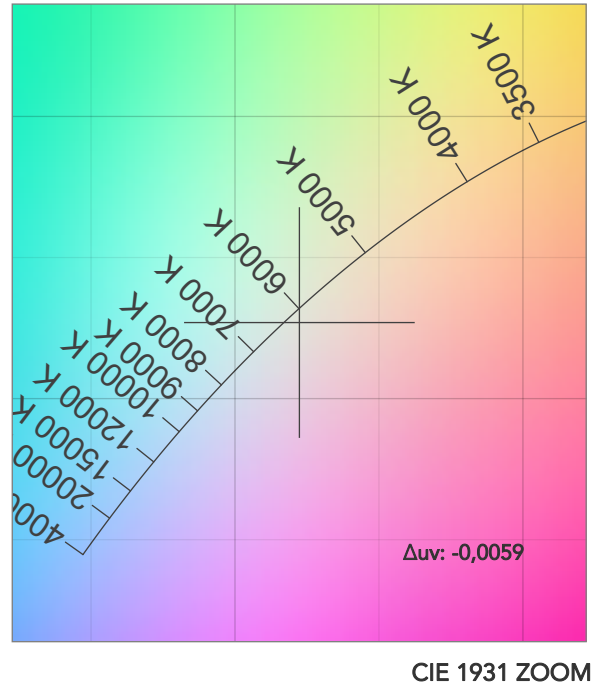
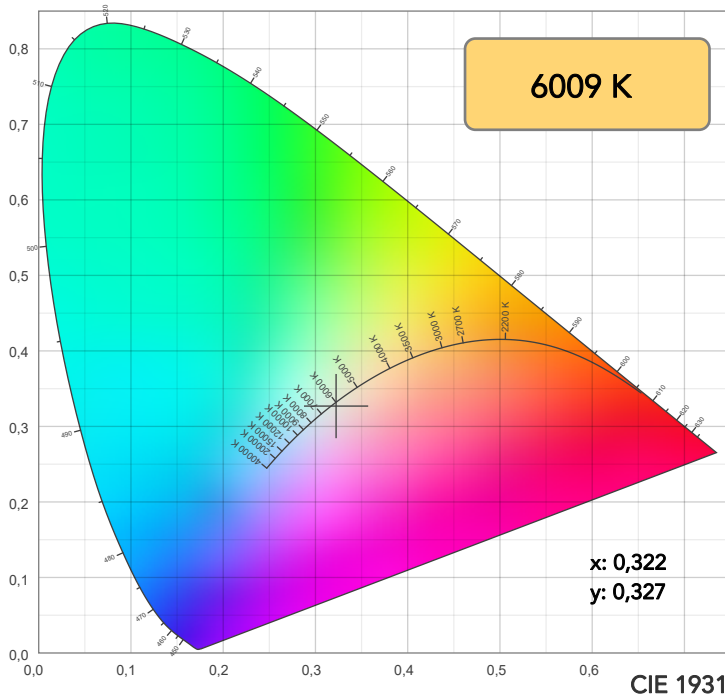
Cut off angle 2.5%: 115,3°

Spectra

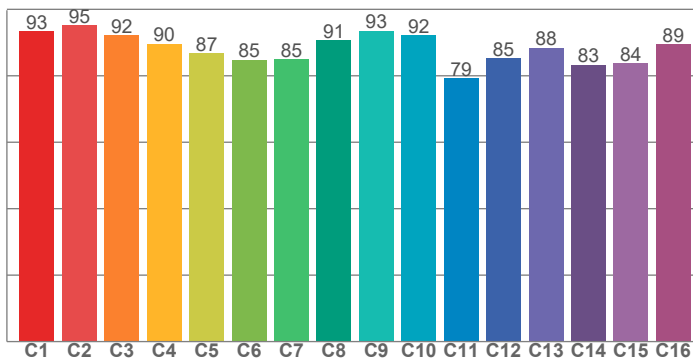




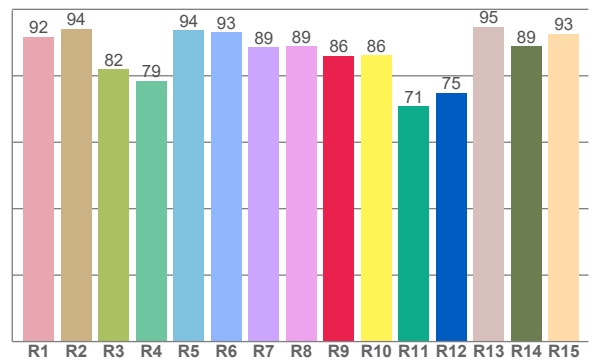
# COLOR DETAILS



TM30: 88,3



CRI: 88,9 (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
91,8	94,2	82,0	78,6	93,8	93,1	88,6	88,8	86,0	86,2	70,8	74,9	94,7	88,8	92,7

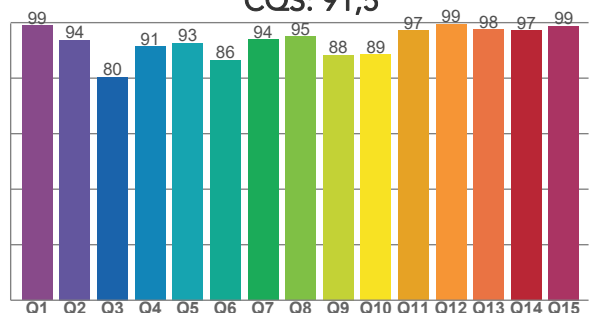
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,4	95,2	92,1	89,7	86,8	84,8	85,0	90,6	93,5	92,1	79,2	85,3	88,3	83,2	83,7	89,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,0	93,8	80,4	91,3	92,7	86,5	93,9	95,0	88,3	88,6	97,1	99,4	97,5	97,2	98,7

CQS: 91,5



## COLOR PARAMETERS

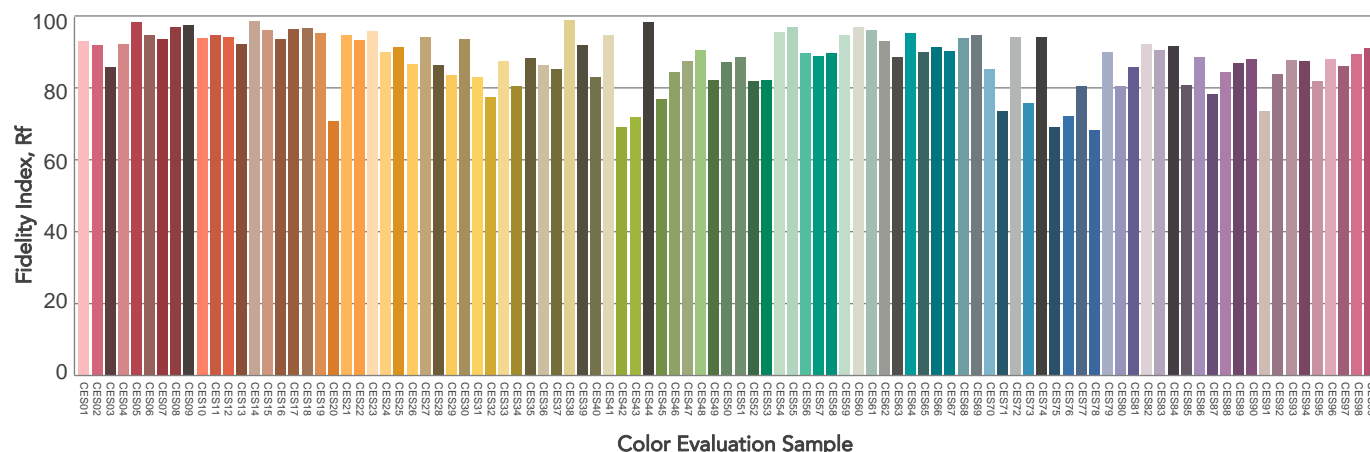
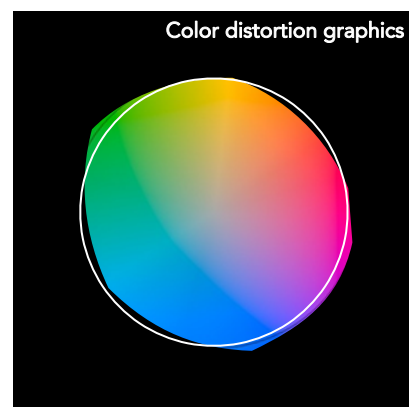
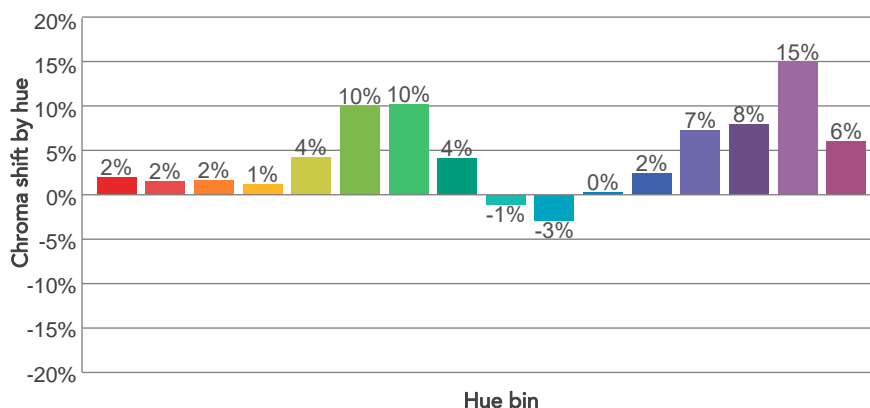
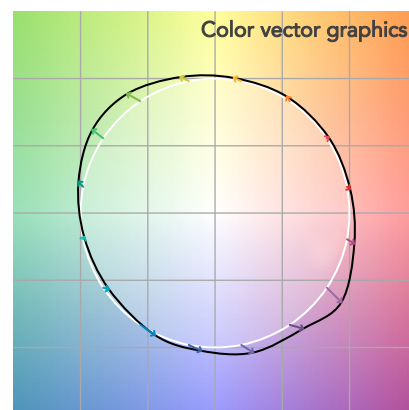
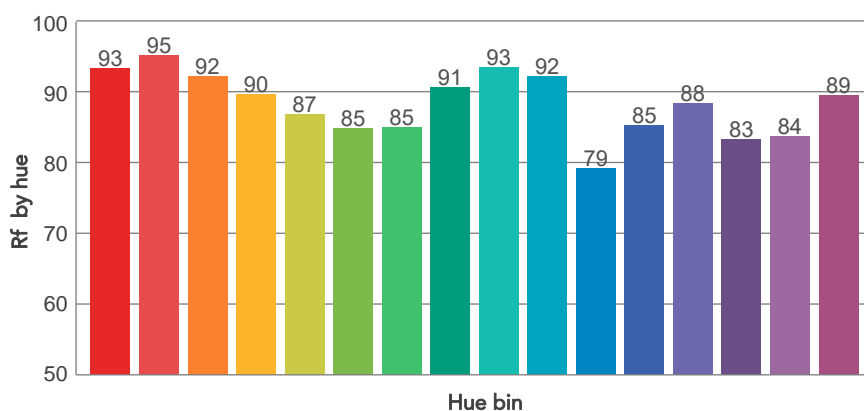
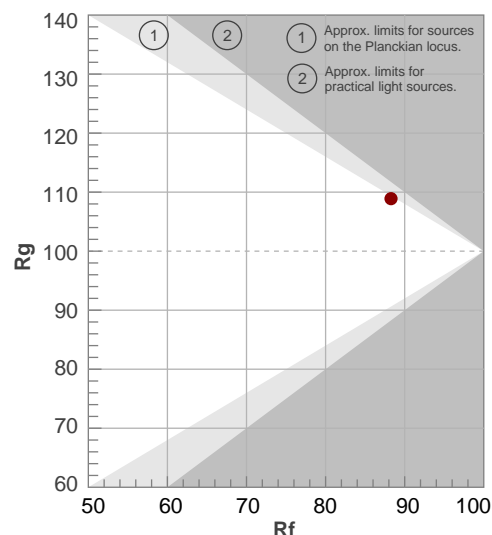
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
6009 K	88,9	86,0	88,3	108,9	91,5	85	0,322	0,327	-0,0059

# TM30 DETAILS

**Rf 88,3**  
Fidelity index Rf

**Rg 108,9**  
Gammut index

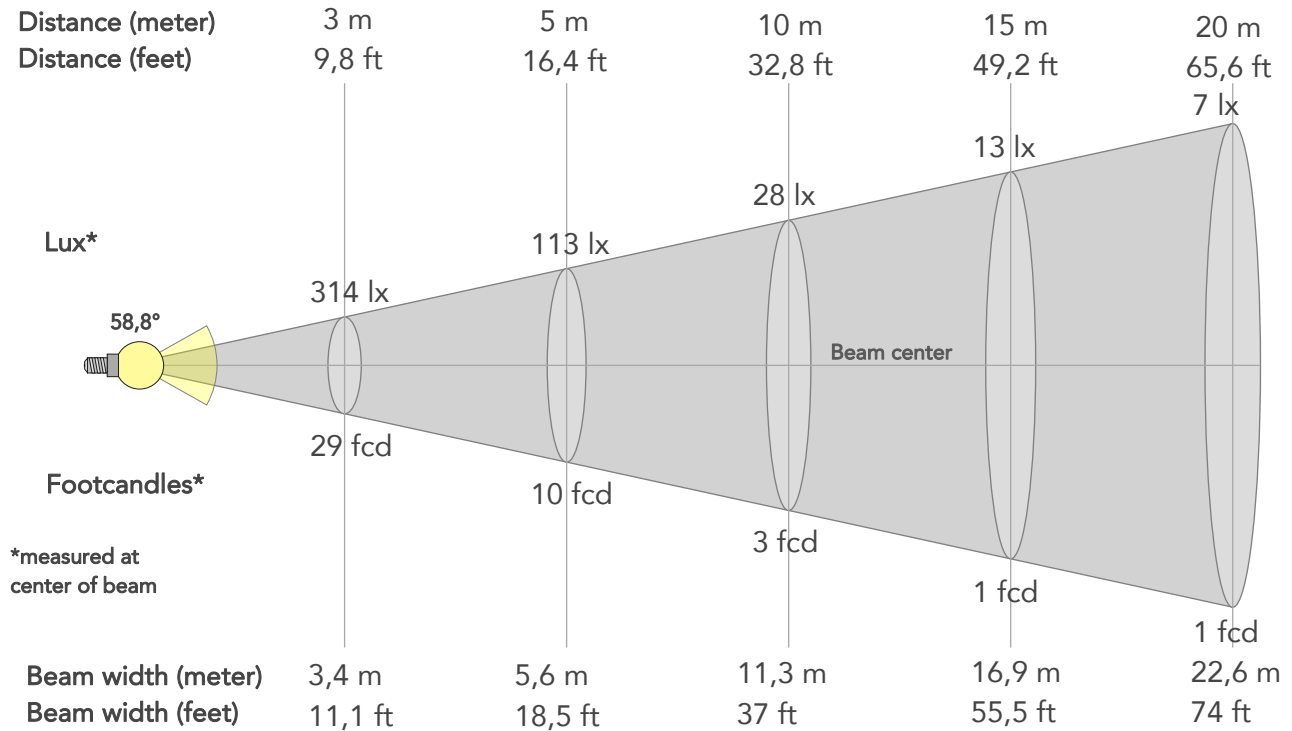
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	95	2%	0%
3	92	2%	4%
4	90	1%	6%
5	87	4%	5%
6	85	10%	5%
7	85	10%	-1%
8	91	4%	-3%
9	93	-1%	-2%
10	92	-3%	3%
11	79	0%	13%
12	85	2%	10%
13	88	7%	8%
14	83	8%	7%
15	84	15%	-3%
16	89	6%	-2%



# BEAM DETAILS



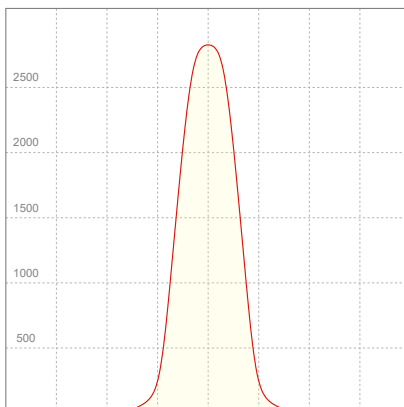
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58,8°	88,3°	115,3°	98,1%	92,5%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2824lx	706lx	314lx	177lx	113lx	50lx	28lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	262fcd	66fcd	29fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,5m	5,6m	8,5m	11,3m	16,9m	22,6m	28,2m	33,8m	45,1m	56,4m
Beam wid.	3,7ft	7,4ft	11,1ft	14,8ft	18,5ft	27,7ft	37ft	55,5ft	74ft	92,5ft	111ft	148ft	185ft

## LINEAR DISTRIBUTION DIAGRAM

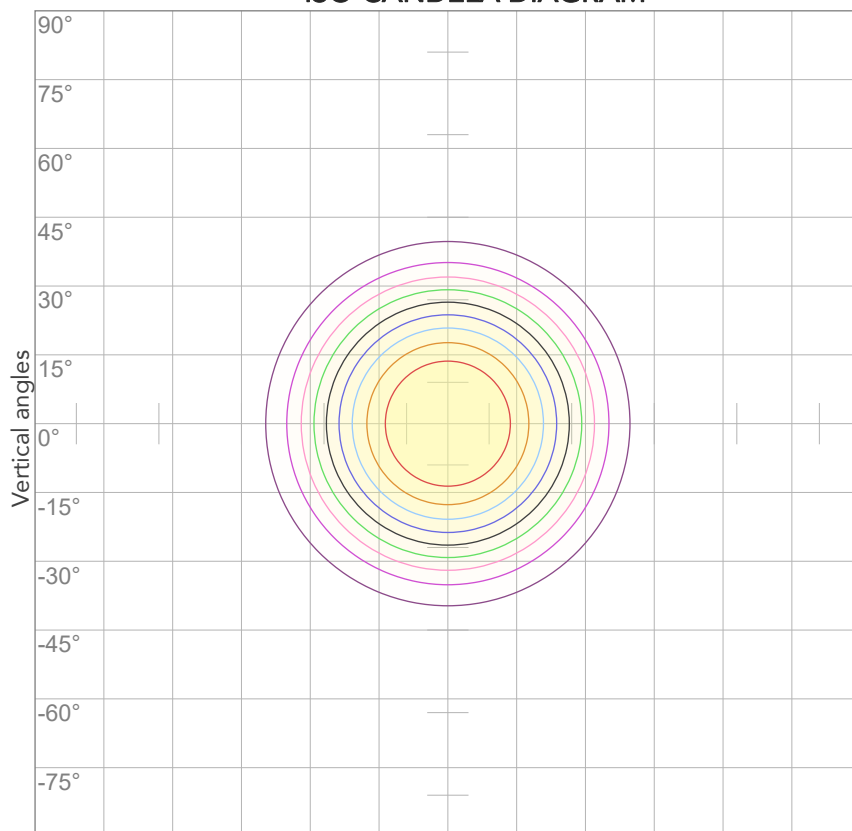


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,338A	69,4W	0,91	39lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



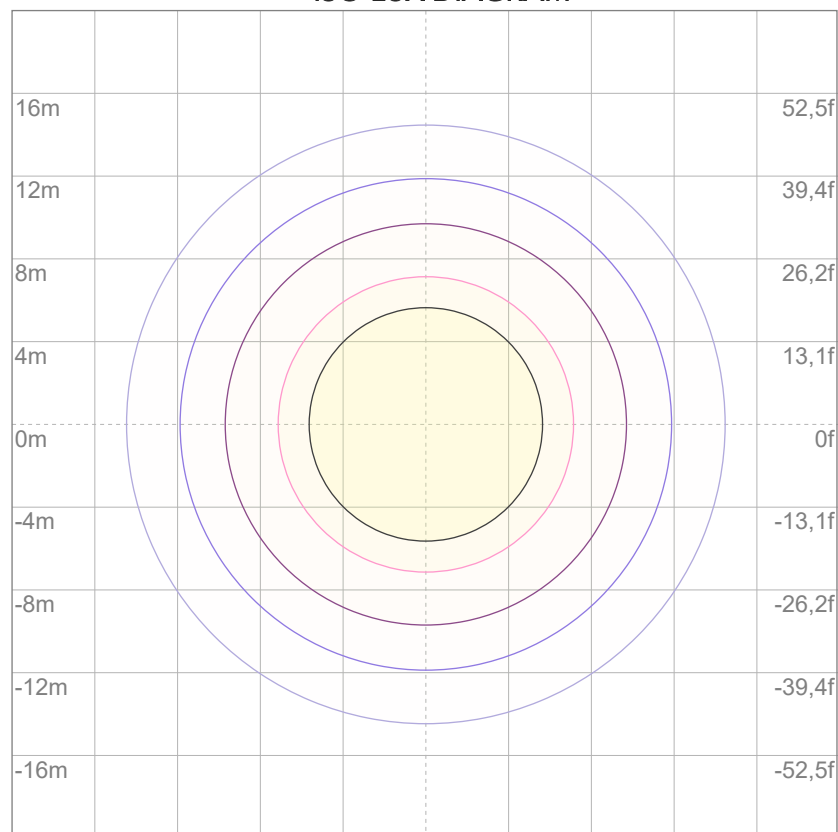
10%	282 cd
20%	565 cd
30%	847 cd
40%	1130 cd
50%	1412 cd
60%	1695 cd
70%	1977 cd
80%	2259 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2824 cd

## ISO LUX DIAGRAM



3%	0,847 lx
5%	1,41 lx
10%	2,82 lx
30%	8,47 lx
50%	14,1 lx

### Conditions:

Number of c-planes: 2

Lux at center: 28,2 lx

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