

# Photometric Test Report



## ECLPANELTWCXL

1.500W Tuneable White and colourful LED  
soft light with pixels and lighting effects

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Filter INT	160

## TESTING PROCESS

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

### **Prolights measurement instrument**

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

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

### **Prolights measurement software**

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

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



Total lumen output:

103815 lm

Peak candela output:

35254 cd

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter HD

Target:

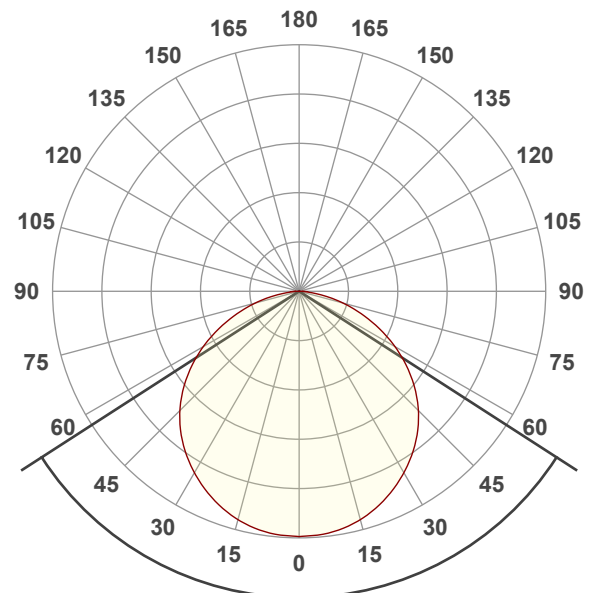
Full On Call.On

Operator:

Paolo Carvone

Date and time:

09/06/2022 12:11:52

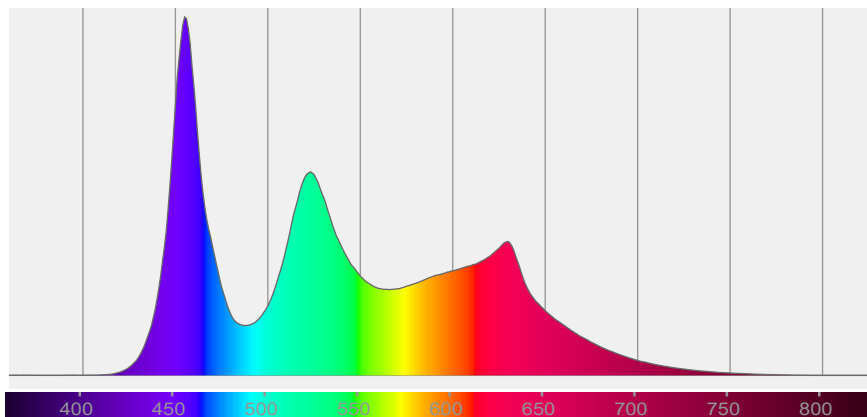


Beam angle 50%: 114,4°

Field angle 10%: 160,3°

Cut off angle 2.5%: 172,5°

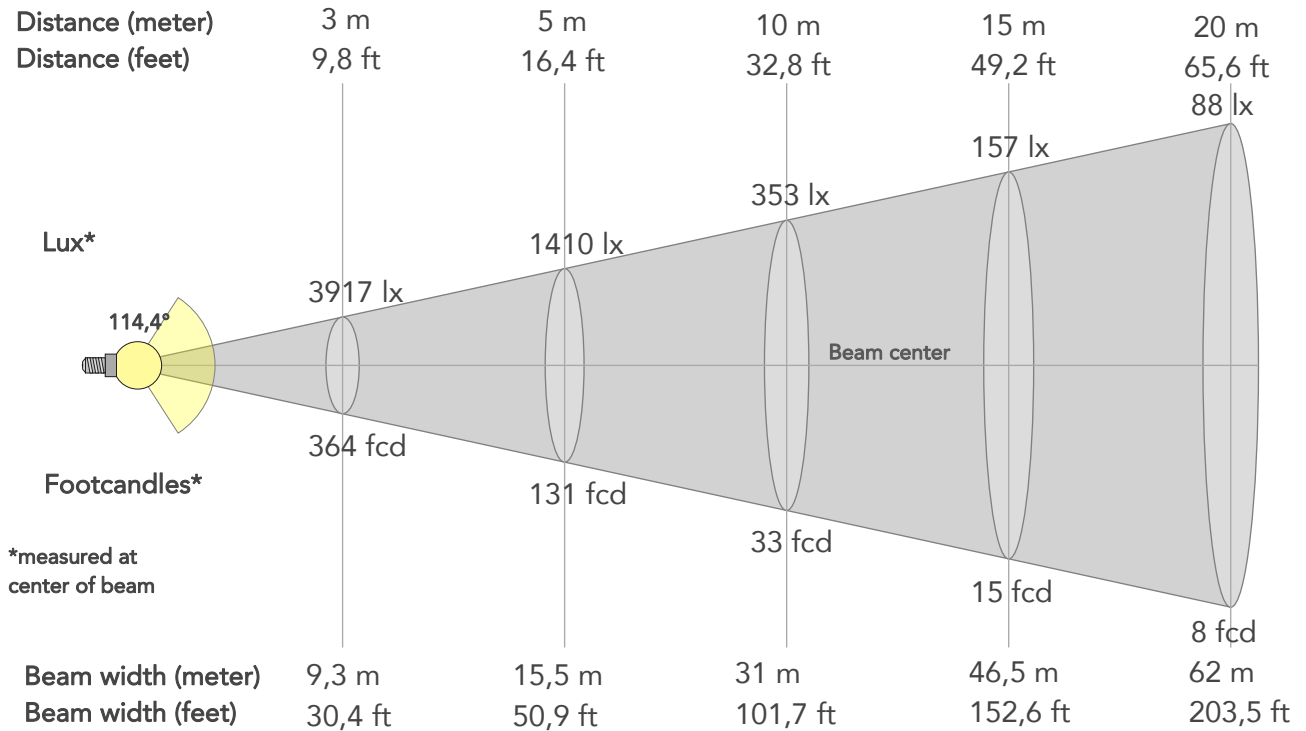
Spectra



# BEAM DETAILS



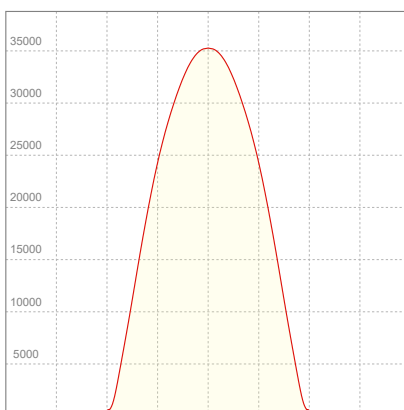
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,4°	160,3°	172,5°	77,9%	52,7%



## 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	35254lx	8813lx	3917lx	2203lx	1410lx	627lx	353lx	157lx	88lx	56lx	39lx	22lx	14lx
Footcand.	3275fcd	819fcd	364fcd	205fcd	131fcd	58fcd	33fcd	15fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	3,1m	6,2m	9,3m	12,4m	15,5m	23,3m	31m	46,5m	62m	77,5m	93,1m	124,1m	155,1m
Beam wid.	10,2ft	20,5ft	30,4ft	40,6ft	50,9ft	76,3ft	101,7ft	152,6ft	203,5ft	254,3ft	305,2ft	406,9ft	508,7ft

## LINEAR DISTRIBUTION DIAGRAM

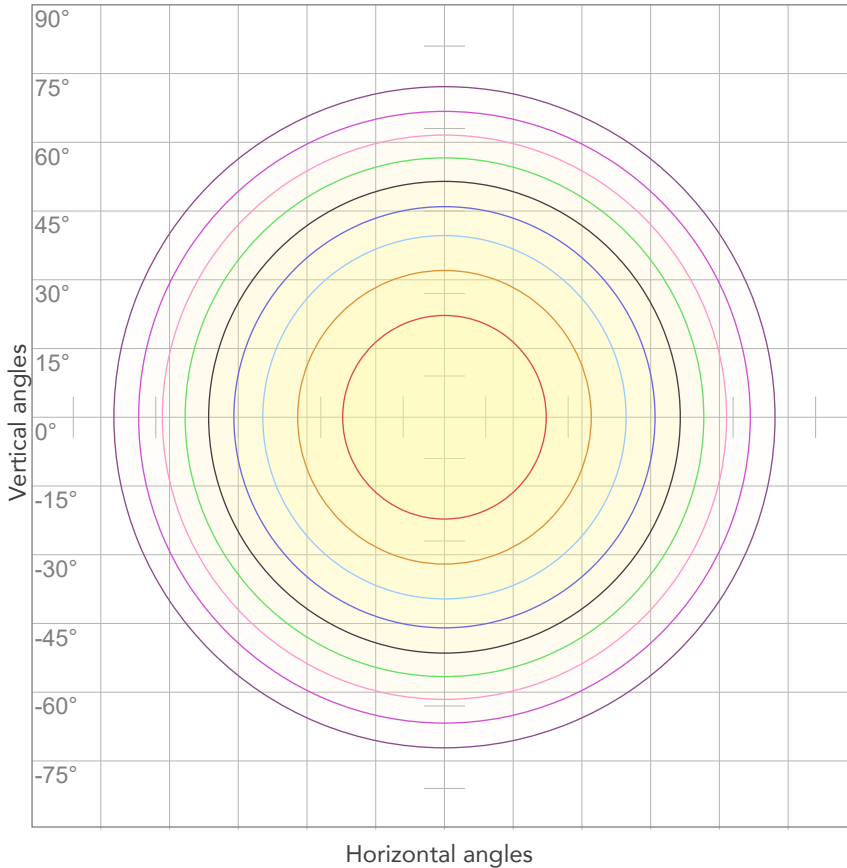


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,9A	1507W	68lm/W

Power FC
0,98

## ISO CANDELA DIAGRAM



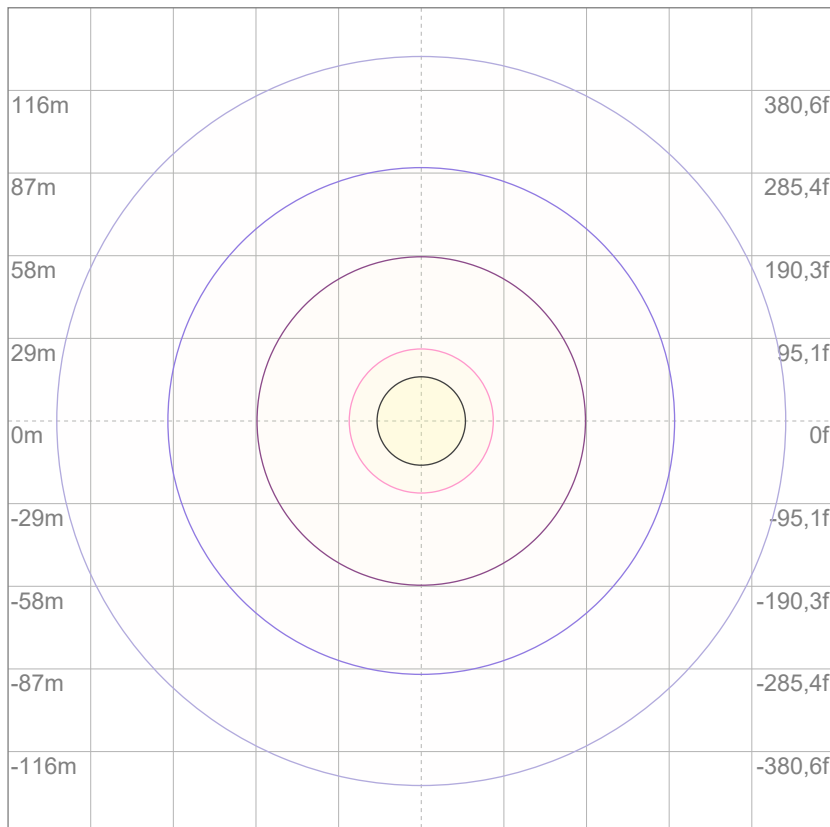
10%	3525 cd
20%	7051 cd
30%	10576 cd
40%	14101 cd
50%	17627 cd
60%	21152 cd
70%	24678 cd
80%	28203 cd

Conditions:

Number of c-planes: 2

Candela at center: 35254 cd

## ISO LUX DIAGRAM



3%	10,6 lx
5%	17,6 lx
10%	35,3 lx
30%	106 lx
50%	176 lx

Conditions:

Number of c-planes: 2

Lux at center: 353 lx

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



Total lumen output:

120110 lm

Peak candela output:

42941 cd

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter MD

Target:

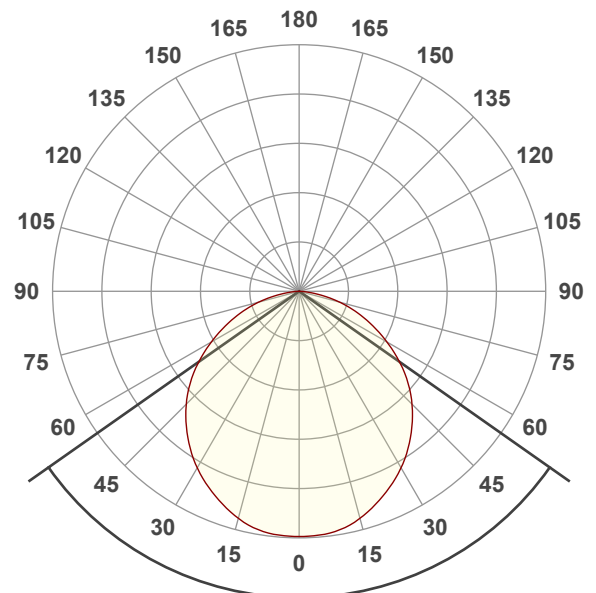
Full On Call.On

Operator:

Paolo Carvone

Date and time:

09/06/2022 10:45:17

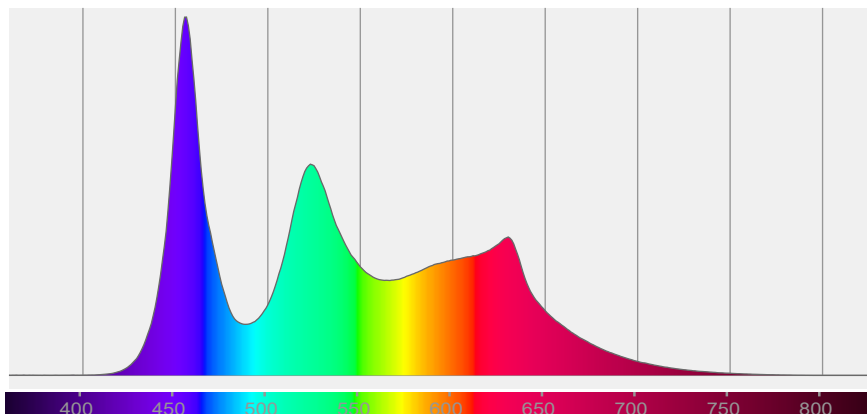


Beam angle 50%: 109,8°

Field angle 10%: 158,9°

Cut off angle 2.5%: 171,7°

Spectra

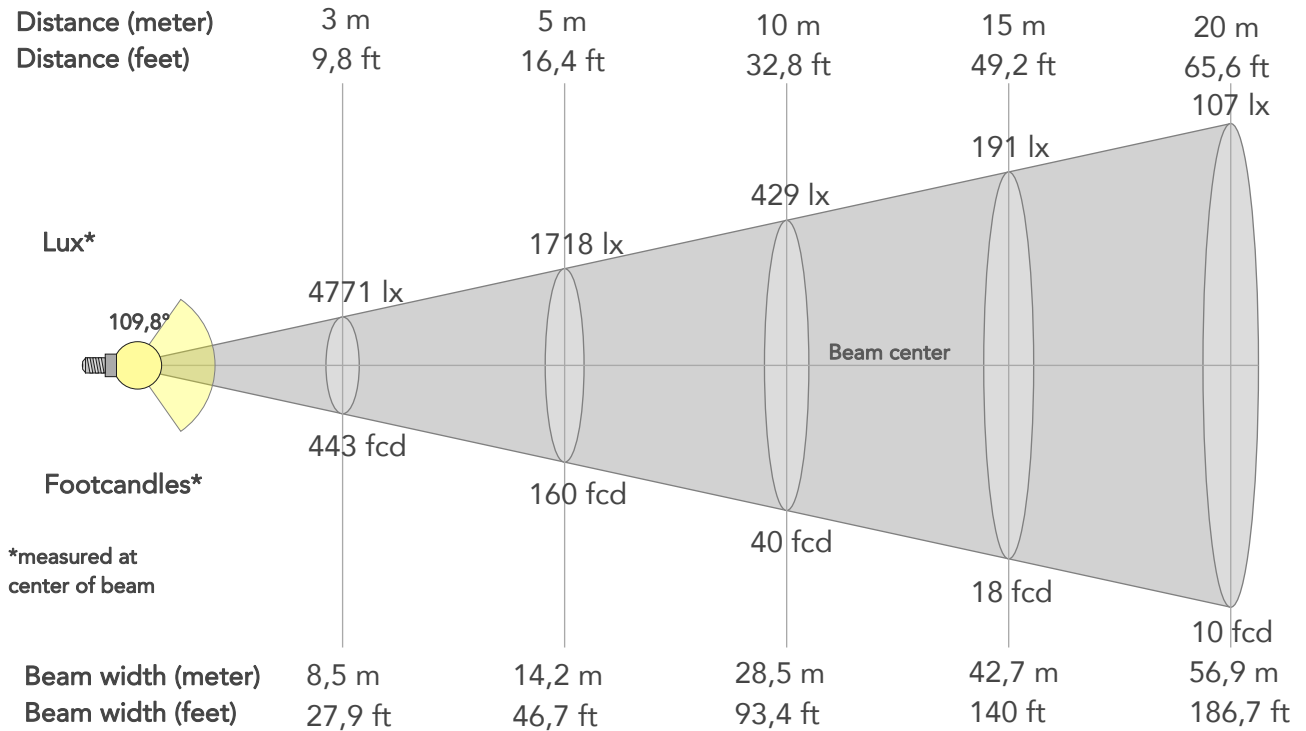




# BEAM DETAILS



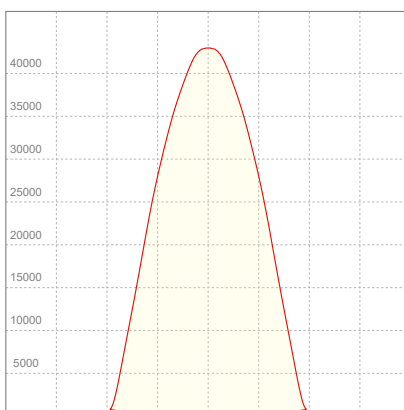
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
109,8°	158,9°	171,7°	78,8%	54,0%



## 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	42941lx	10735lx	4771lx	2684lx	1718lx	763lx	429lx	191lx	107lx	69lx	48lx	27lx	17lx
Footcand.	3989fcd	997fcd	443fcd	249fcd	160fcd	71fcd	40fcd	18fcd	10fcd	6fcd	4fcd	2fcd	2fcd
Beam wid.	2,8m	5,7m	8,5m	11,4m	14,2m	21,3m	28,5m	42,7m	56,9m	71,2m	85,4m	113,9m	142,3m
Beam wid.	9,4ft	18,8ft	27,9ft	37,3ft	46,7ft	70ft	93,4ft	140ft	186,7ft	233,4ft	280,1ft	373,4ft	466,8ft

## LINEAR DISTRIBUTION DIAGRAM

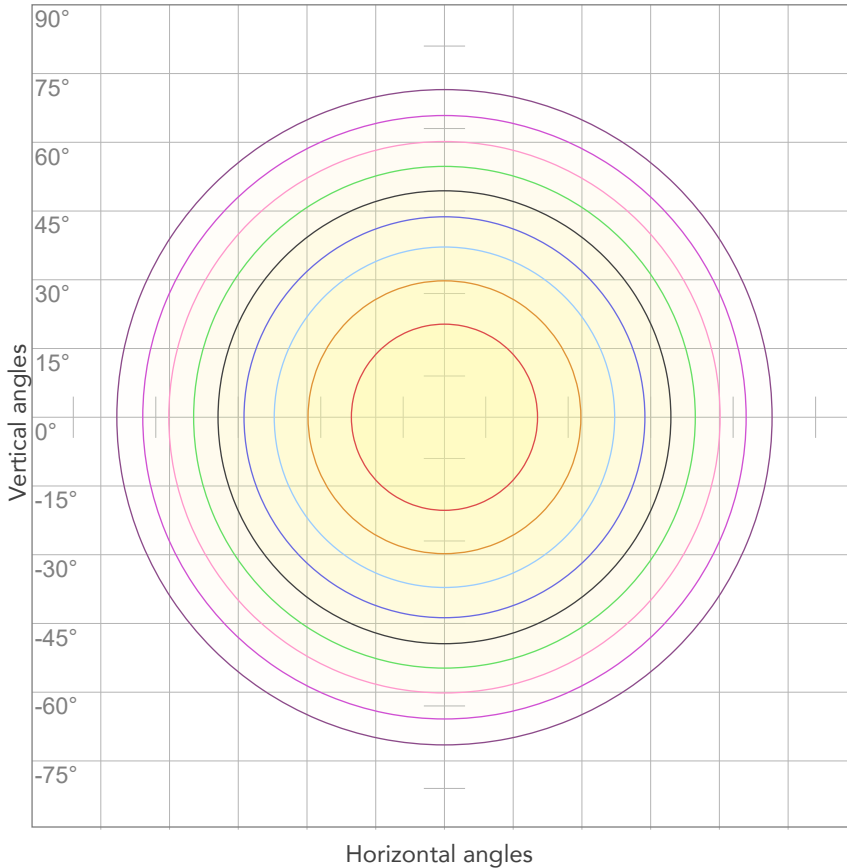


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6.9A	1507W	68lm/W

Power FC
0,98

## ISO CANDELA DIAGRAM



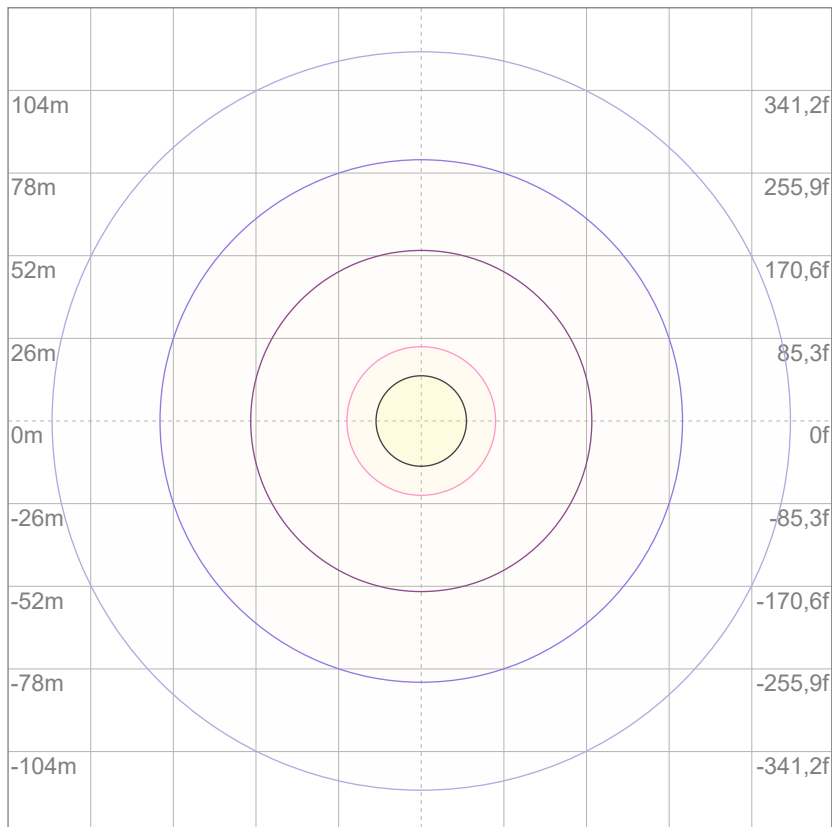
10%	4294 cd
20%	8588 cd
30%	12882 cd
40%	17176 cd
50%	21470 cd
60%	25765 cd
70%	30059 cd
80%	34353 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 42941 cd

## ISO LUX DIAGRAM



3%	12,9 lx
5%	21,5 lx
10%	42,9 lx
30%	129 lx
50%	215 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 429 lx

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



Total lumen output:

126580 lm

Peak candela output:

46532 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter LD

Target:

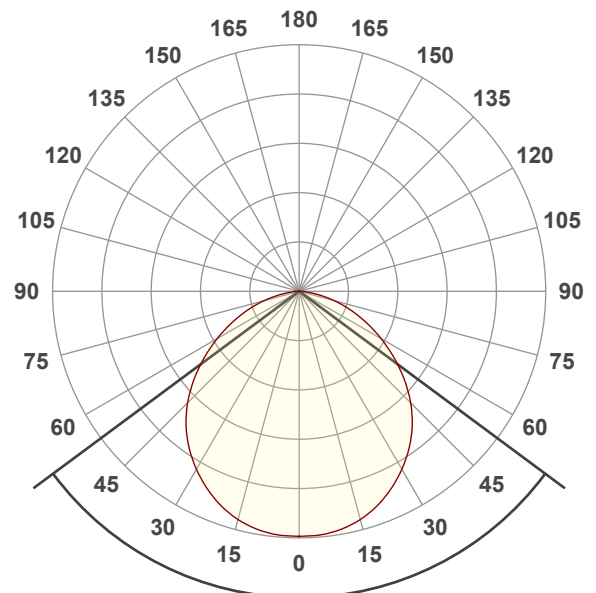
Full On Call.On

Operator:

Paolo Carvone

Date and time:

09/06/2022 11:32:21

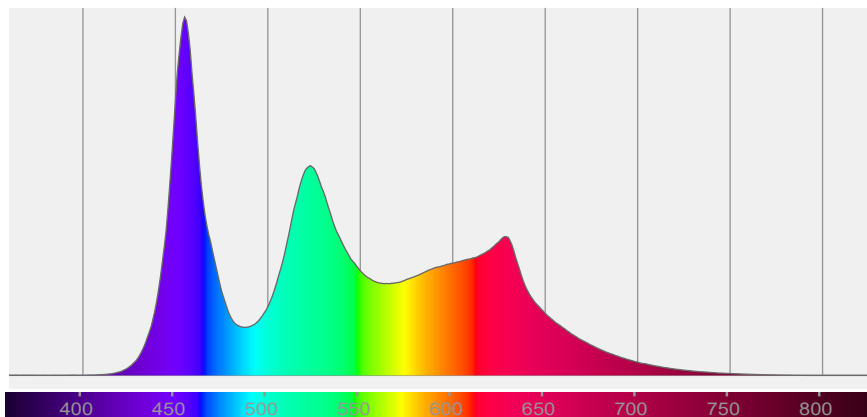


Beam angle 50%: 106,9°

Field angle 10%: 156,8°

Cut off angle 2.5%: 171,2°

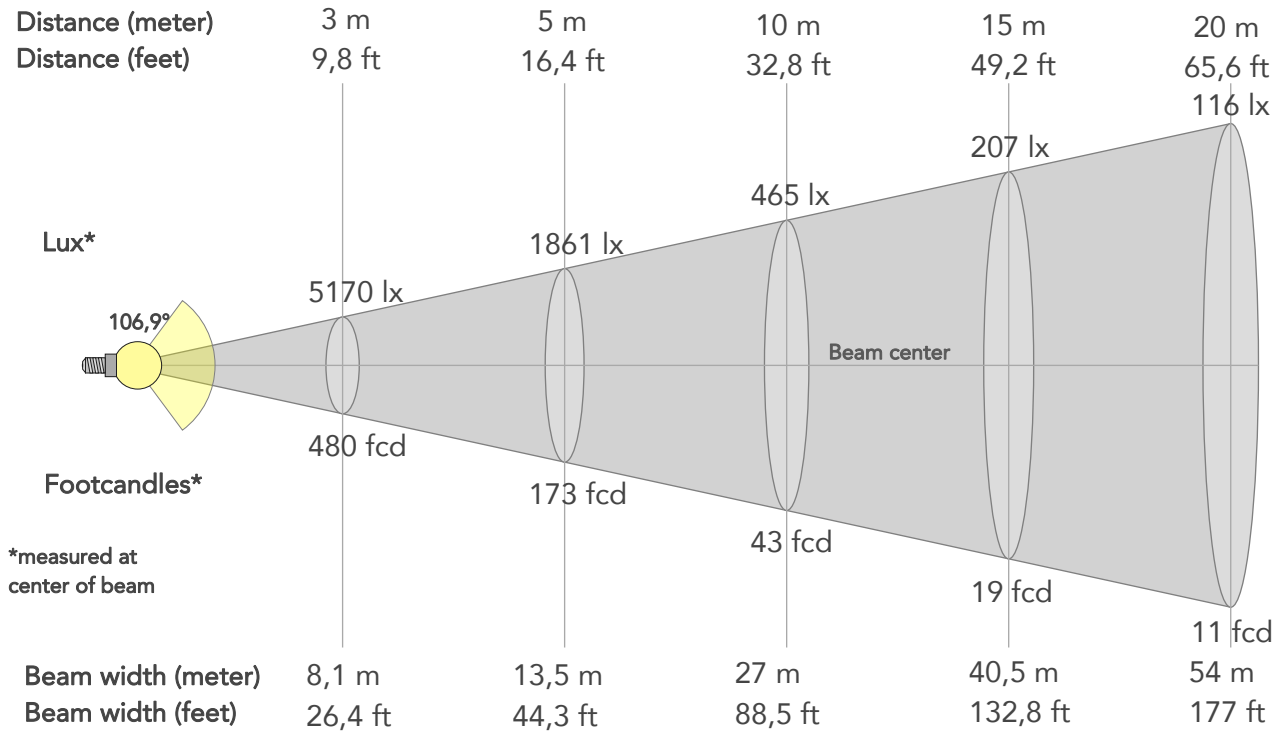
Spectra



# BEAM DETAILS



Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
106,9°	156,8°	171,2°	80,2%	55,7%

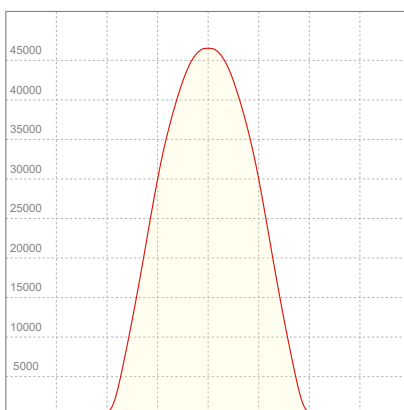


\*measured at center of beam

## 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	46532lx	11633lx	5170lx	2908lx	1861lx	827lx	465lx	207lx	116lx	74lx	52lx	29lx	19lx
Footcand.	4323fcd	1081fcd	480fcd	270fcd	173fcd	77fcd	43fcd	19fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	2,7m	5,4m	8,1m	10,8m	13,5m	20,2m	27m	40,5m	54m	67,5m	80,9m	107,9m	134,9m
Beam wid.	8,9ft	17,8ft	26,4ft	35,3ft	44,3ft	66,4ft	88,5ft	132,8ft	177ft	221,3ft	265,5ft	354ft	442,5ft

## LINEAR DISTRIBUTION DIAGRAM

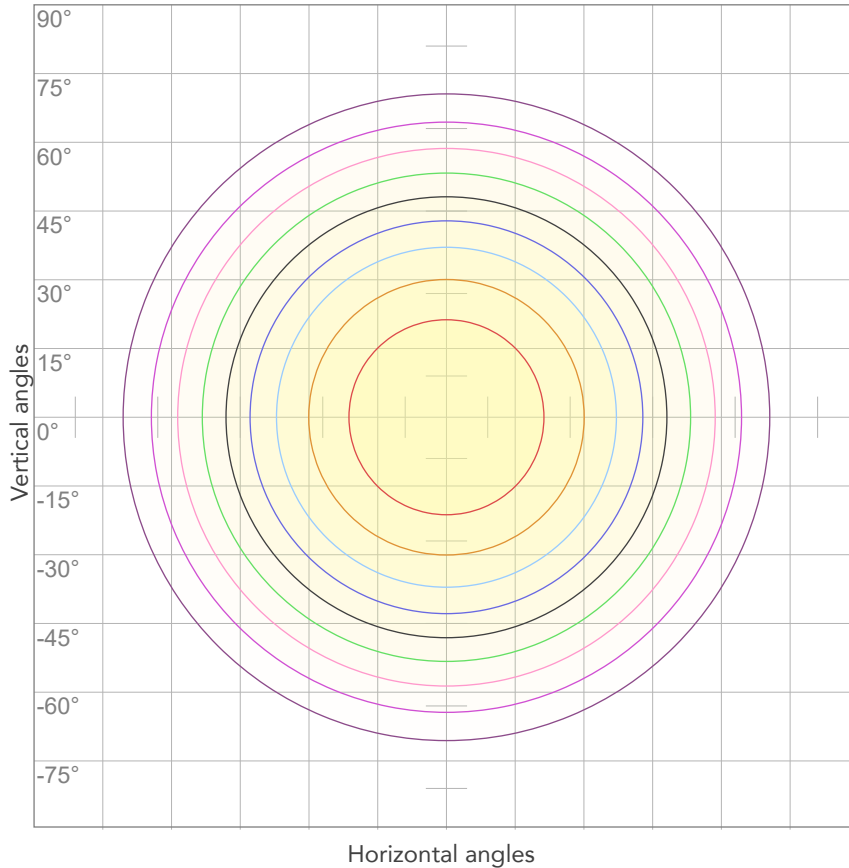


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6.9A	1507W	68lm/W

Power FC
0,98A

## ISO CANDELA DIAGRAM



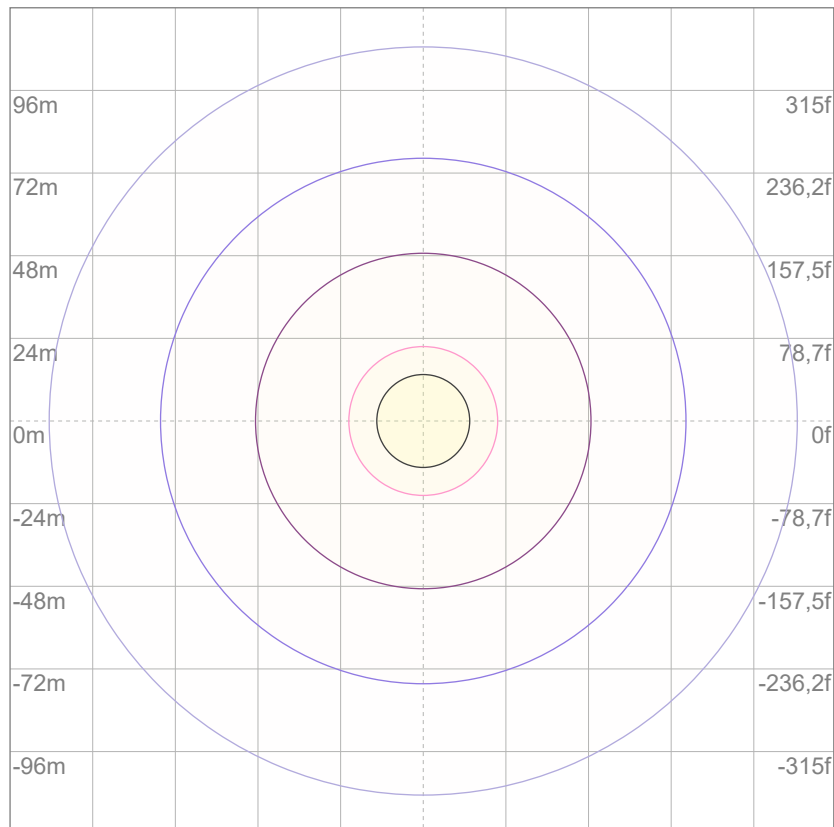
10%	4653 cd
20%	9306 cd
30%	13960 cd
40%	18613 cd
50%	23266 cd
60%	27919 cd
70%	32573 cd
80%	37226 cd

Conditions:

Number of c-planes: 2

Candela at center: 46532 cd

## ISO LUX DIAGRAM



3%	14,0 lx
5%	23,3 lx
10%	46,5 lx
30%	140 lx
50%	233 lx

Conditions:

Number of c-planes: 2

Lux at center: 465 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

94091 lm

Peak candela output:

57041 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter INT

Target:

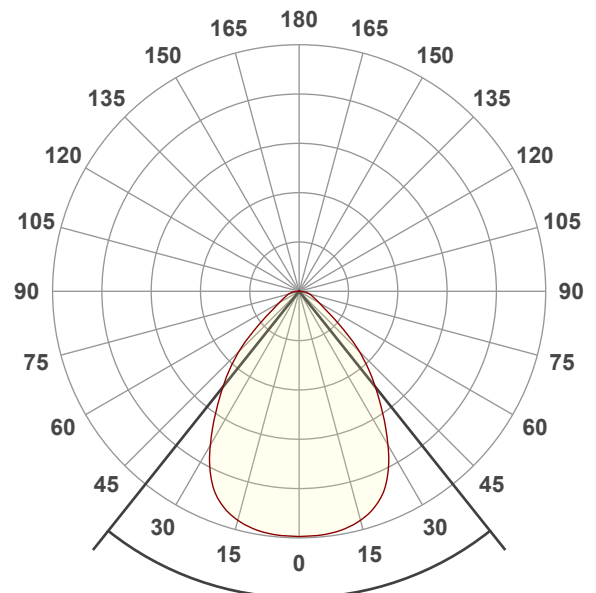
Full On Call.On

Operator:

Paolo Carvone

Date and time:

24/06/2022 08:59:06

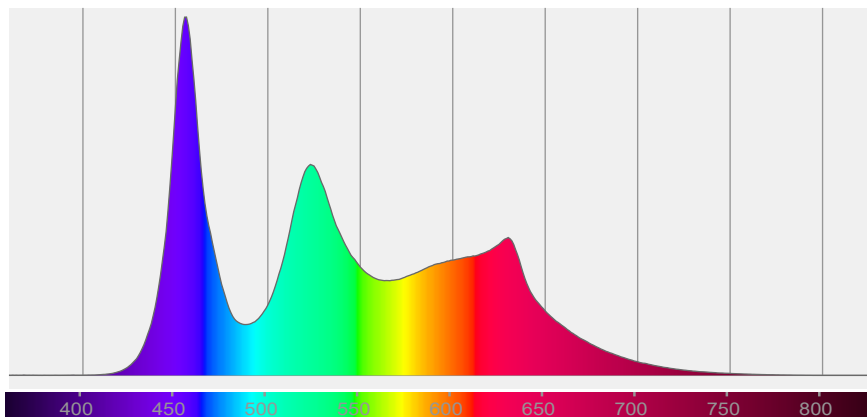


Beam angle 50%: 77,1°

Field angle 10%: 118,3°

Cut off angle 2.5%: 166,4°

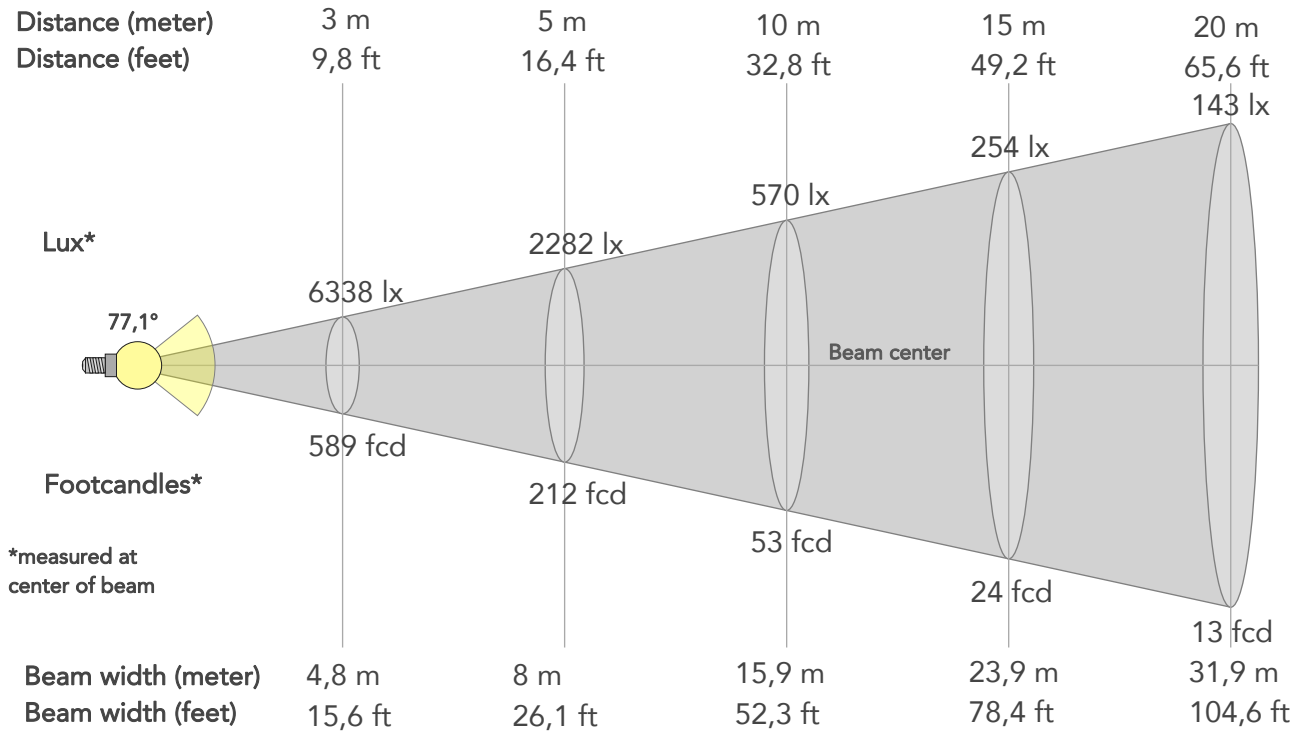
Spectra



# BEAM DETAILS



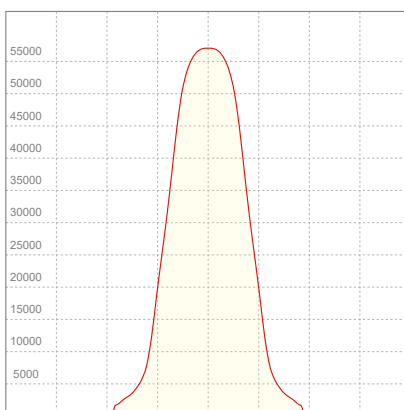
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
77,1°	118,3°	166,4°	91,7%	77,0%



## 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	57041lx	14260lx	6338lx	3565lx	2282lx	1014lx	570lx	254lx	143lx	91lx	63lx	36lx	23lx
Footcand.	5299fcd	1325fcd	589fcd	331fcd	212fcd	94fcd	53fcd	24fcd	13fcd	8fcd	6fcd	3fcd	2fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	8m	12m	15,9m	23,9m	31,9m	39,8m	47,8m	63,8m	79,7m
Beam wid.	5,3ft	10,5ft	15,6ft	20,9ft	26,1ft	39,2ft	52,3ft	78,4ft	104,6ft	130,7ft	156,8ft	209,1ft	261,4ft

## LINEAR DISTRIBUTION DIAGRAM

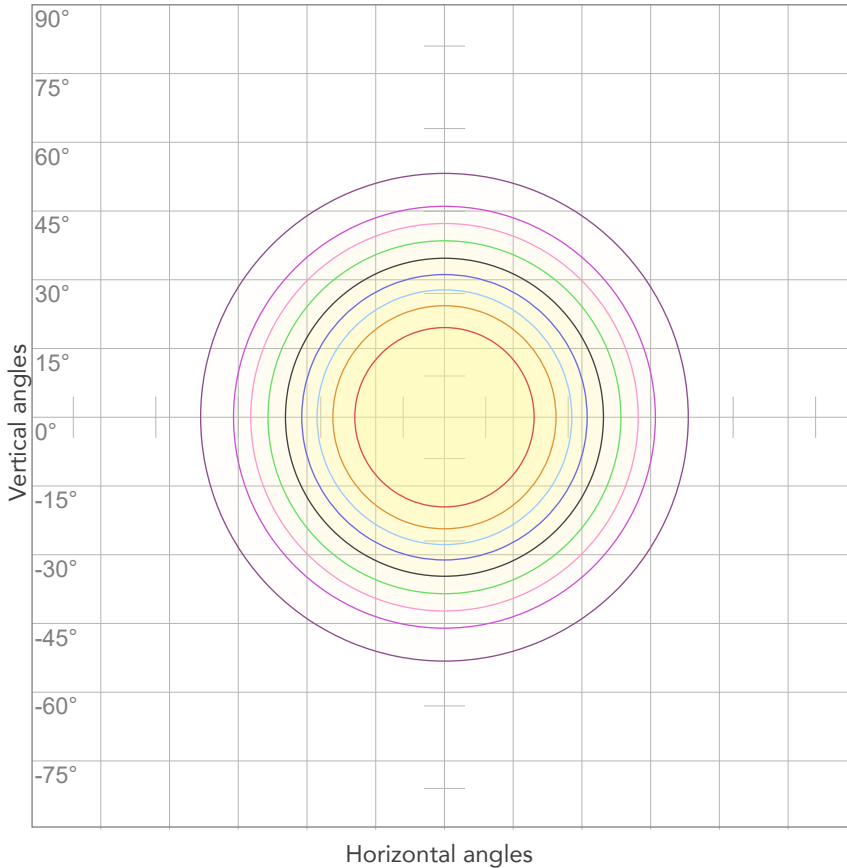


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6.9A	1507W	68lm/W

Power FC
0,98

## ISO CANDELA DIAGRAM



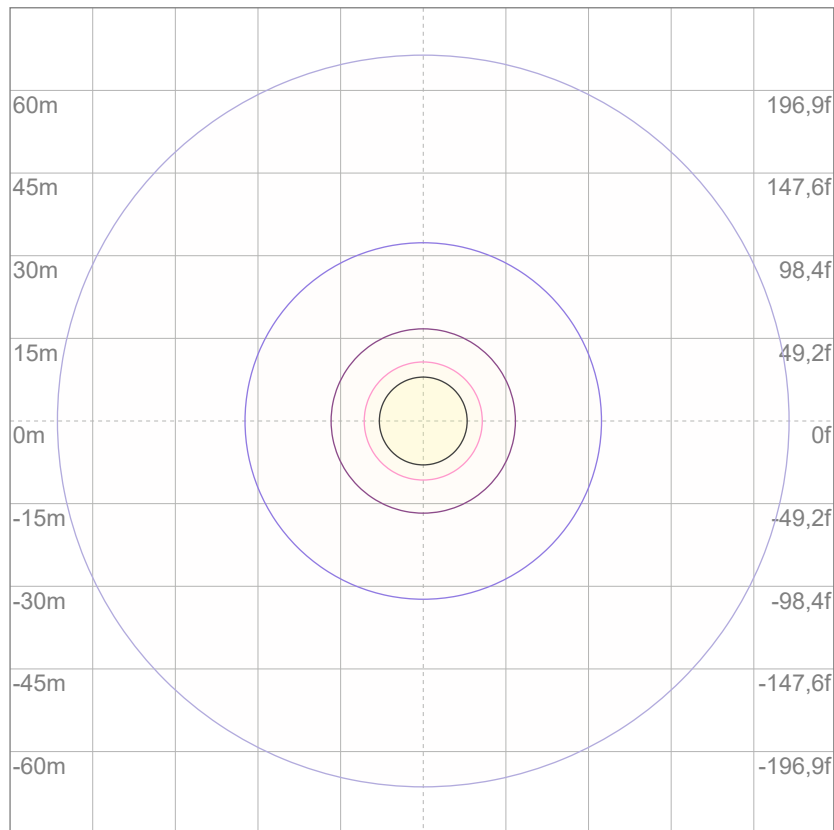
10%	5704 cd
20%	11408 cd
30%	17112 cd
40%	22816 cd
50%	28520 cd
60%	34224 cd
70%	39928 cd
80%	45632 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 57041 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	17,1 lx
5%	28,5 lx
10%	57,0 lx
30%	171 lx
50%	285 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 570 lx

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





Total lumen output:

18076 lm

Peak candela output:

6368 cd

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter HD

Target:

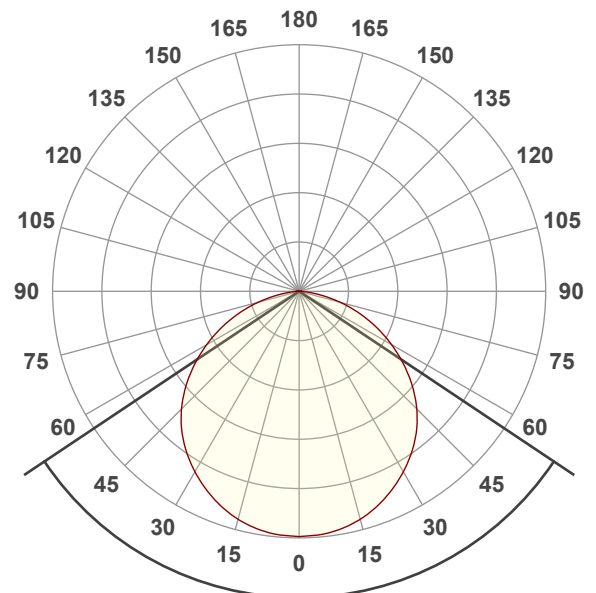
Red

Operator:

Paolo Carvone

Date and time:

09/06/2022 12:15:34

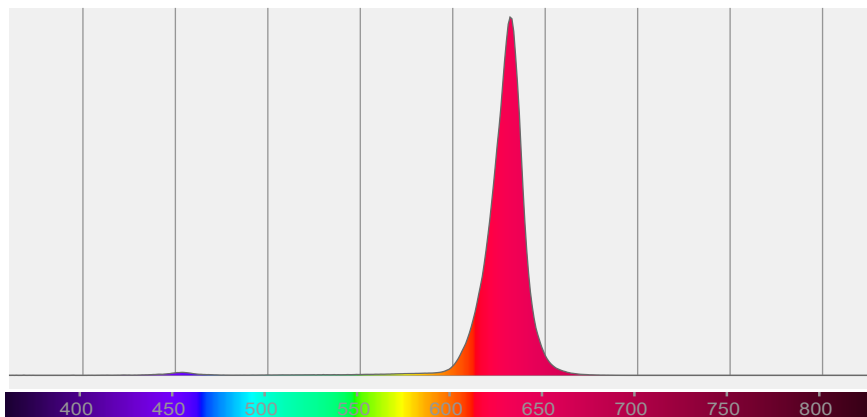


Beam angle 50%: 112,5°

Field angle 10%: 158,9°

Cut off angle 2.5%: 172,3°

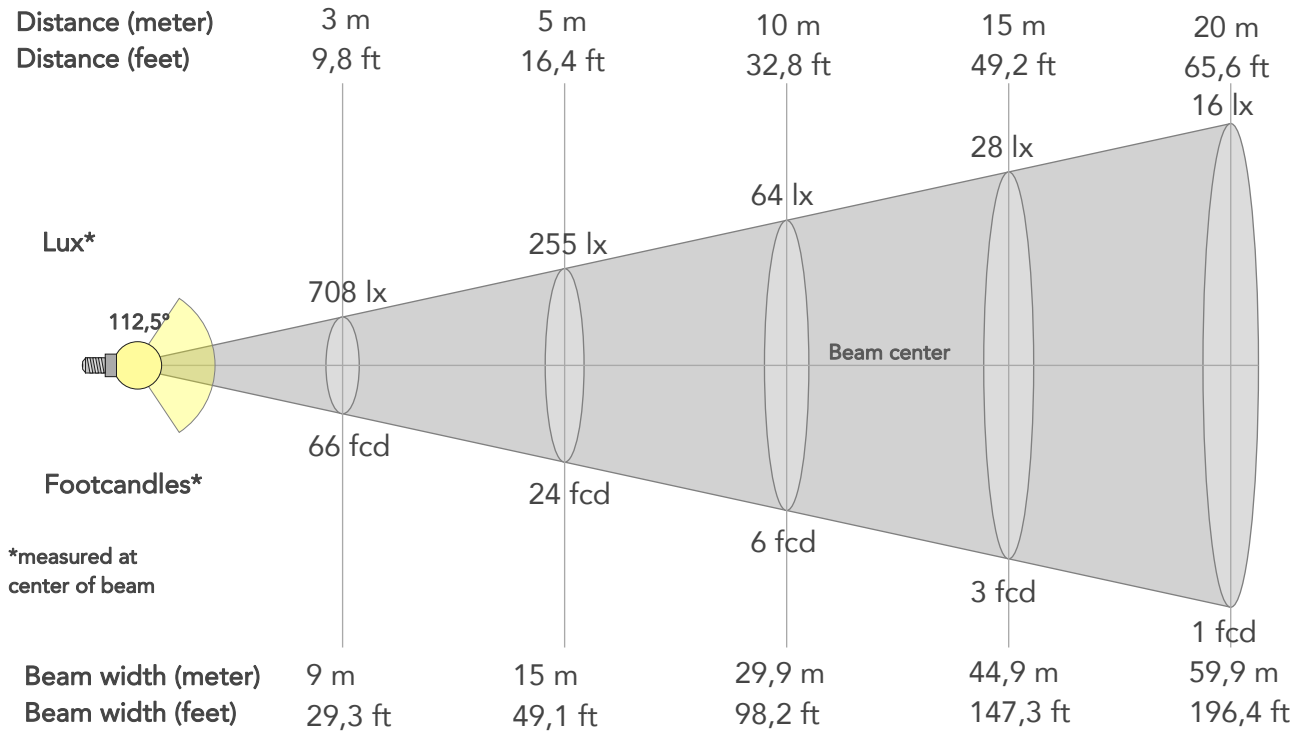
Spectra



# BEAM DETAILS



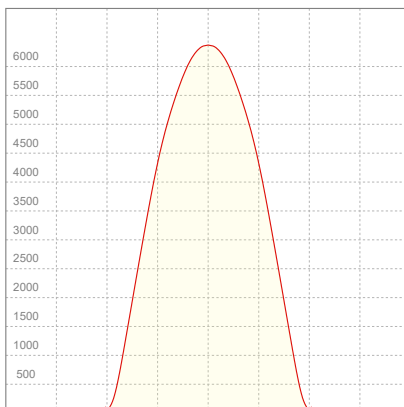
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
112,5°	158,9°	172,3°	79,8%	54,3%



## 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	6368lx	1592lx	708lx	398lx	255lx	113lx	64lx	28lx	16lx	10lx	7lx	4lx	3lx
Footcand.	592fcd	148fcd	66fcd	37fcd	24fcd	11fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	3m	6m	9m	12m	15m	22,5m	29,9m	44,9m	59,9m	74,8m	89,8m	119,7m	149,7m
Beam wid.	9,9ft	19,8ft	29,3ft	39,2ft	49,1ft	73,6ft	98,2ft	147,3ft	196,4ft	245,5ft	294,6ft	392,8ft	491ft

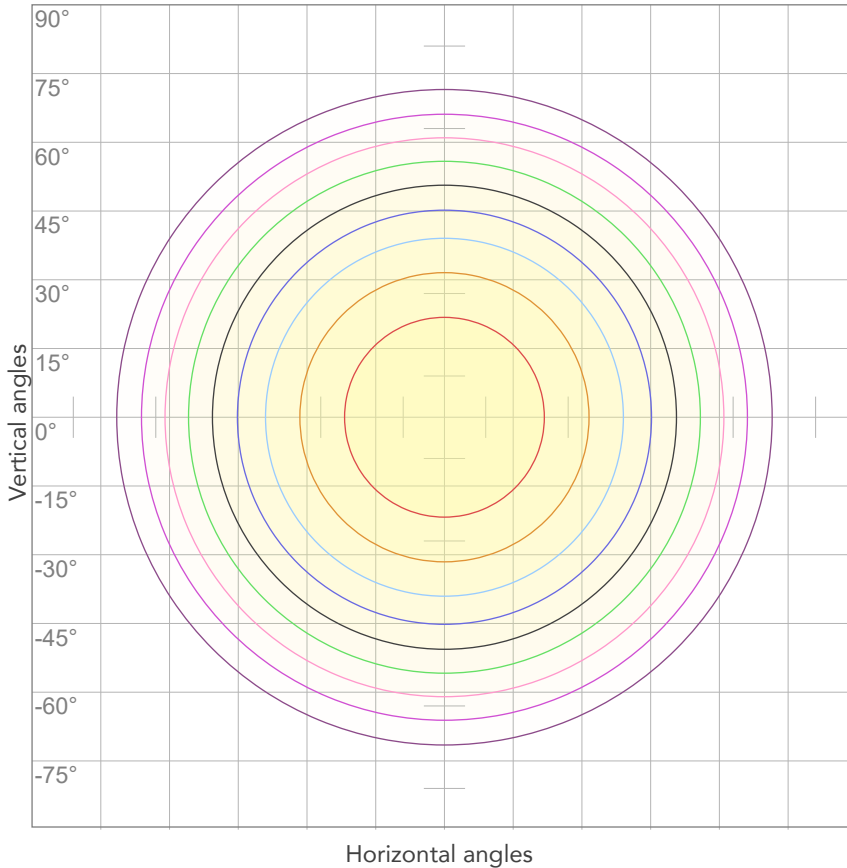
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	2,34A	495W	36lm/W

## ISO CANDELA DIAGRAM



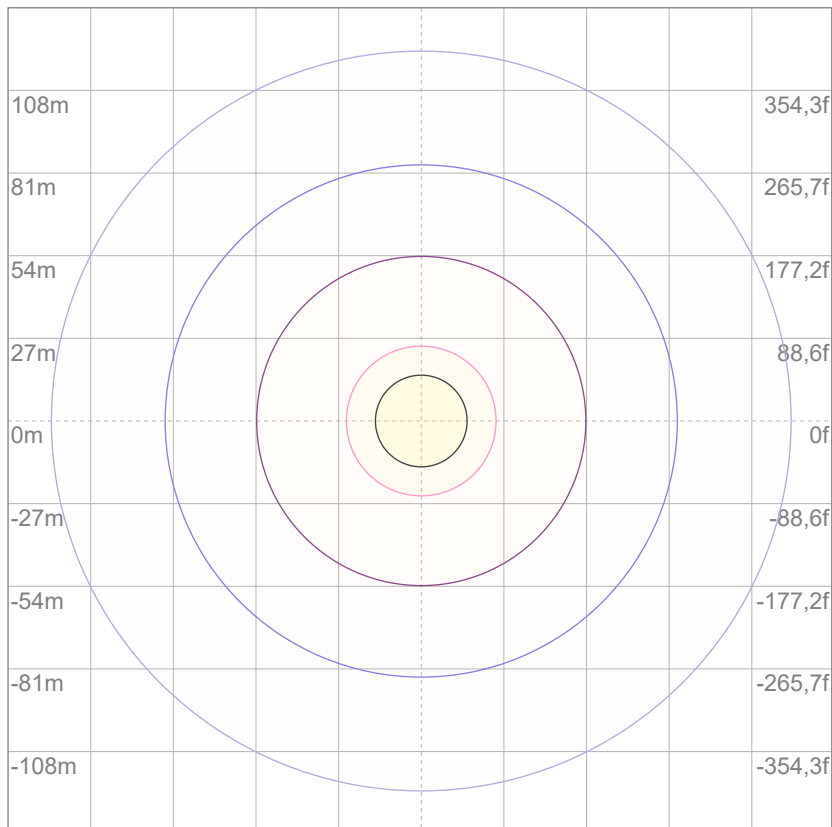
10%	637 cd
20%	1274 cd
30%	1910 cd
40%	2547 cd
50%	3184 cd
60%	3821 cd
70%	4458 cd
80%	5095 cd

Conditions:

Number of c-planes: 2

Candela at center: 6368 cd

## ISO LUX DIAGRAM



3%	1,91 lx
5%	3,18 lx
10%	6,37 lx
30%	19,1 lx
50%	31,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 63,7 lx

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



Total lumen output:

20828 lm

Peak candela output:

7758 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter MD

Target:

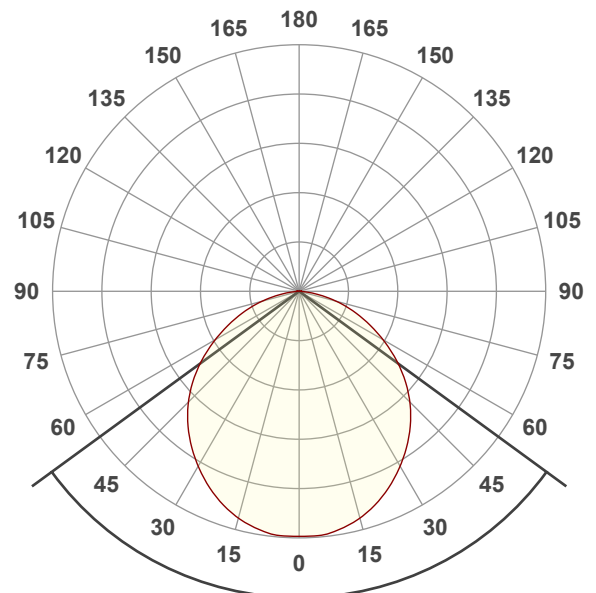
Red

Operator:

Paolo Carvone

Date and time:

09/06/2022 10:48:13

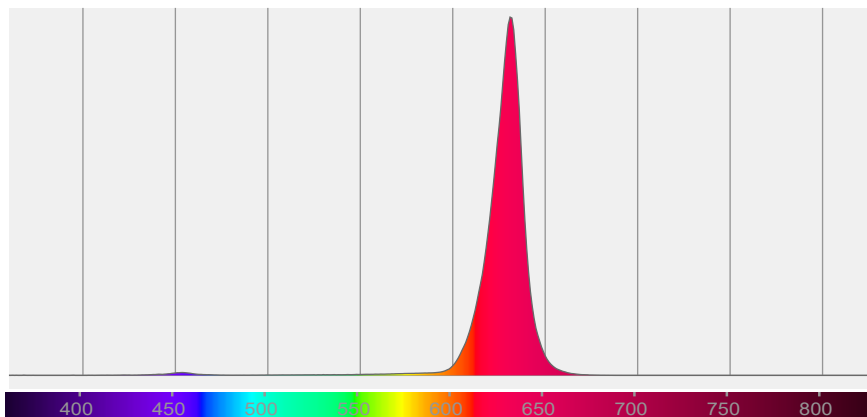


Beam angle 50%: 107,7°

Field angle 10%: 157,7°

Cut off angle 2.5%: 170,2°

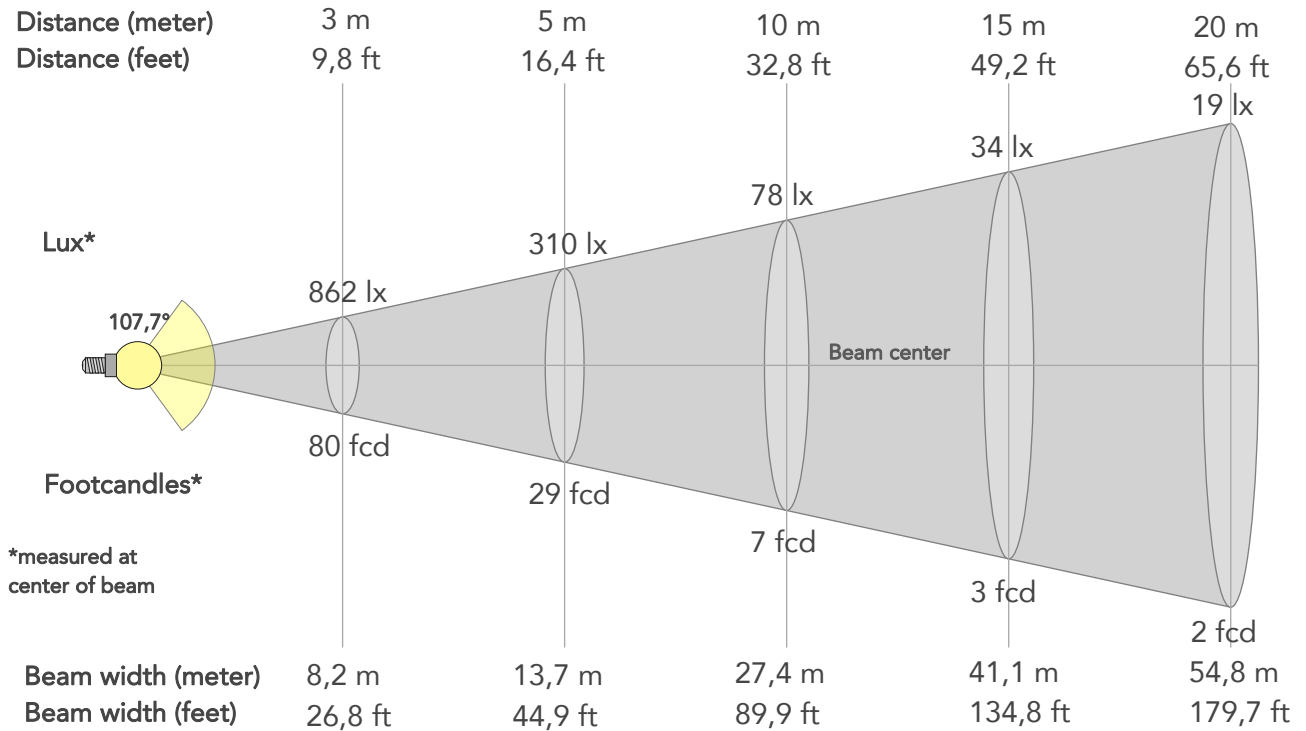
Spectra



# BEAM DETAILS



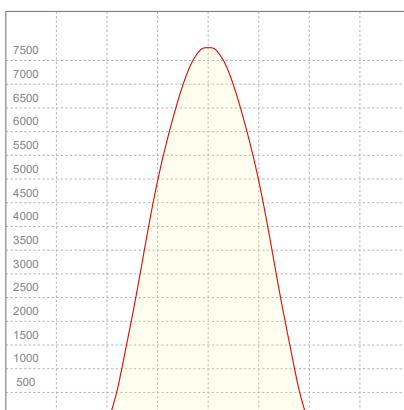
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
107,7°	157,7°	170,2°	80,8%	55,7%



## 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	7758lx	1939lx	862lx	485lx	310lx	138lx	78lx	34lx	19lx	12lx	9lx	5lx	3lx
Footcand.	721fcd	180fcd	80fcd	45fcd	29fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	2,7m	5,5m	8,2m	11m	13,7m	20,5m	27,4m	41,1m	54,8m	68,5m	82,2m	109,6m	137m
Beam wid.	9ft	18,1ft	26,8ft	35,9ft	44,9ft	67,4ft	89,9ft	134,8ft	179,7ft	224,6ft	269,6ft	359,4ft	449,3ft

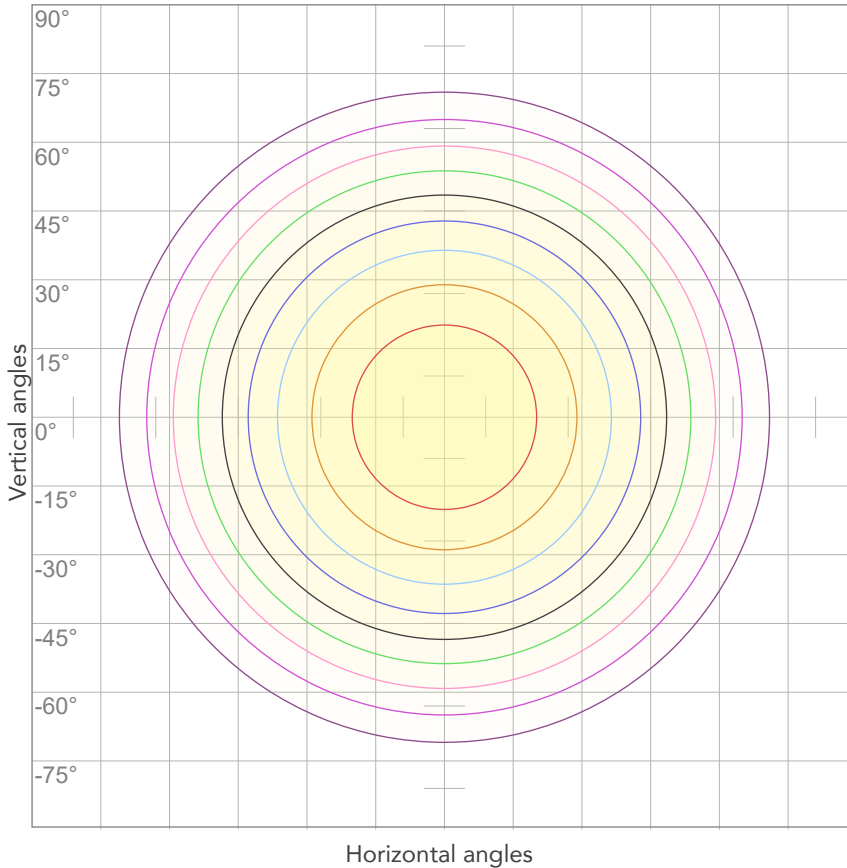
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	2.34A	495W	36lm/W

## ISO CANDELA DIAGRAM



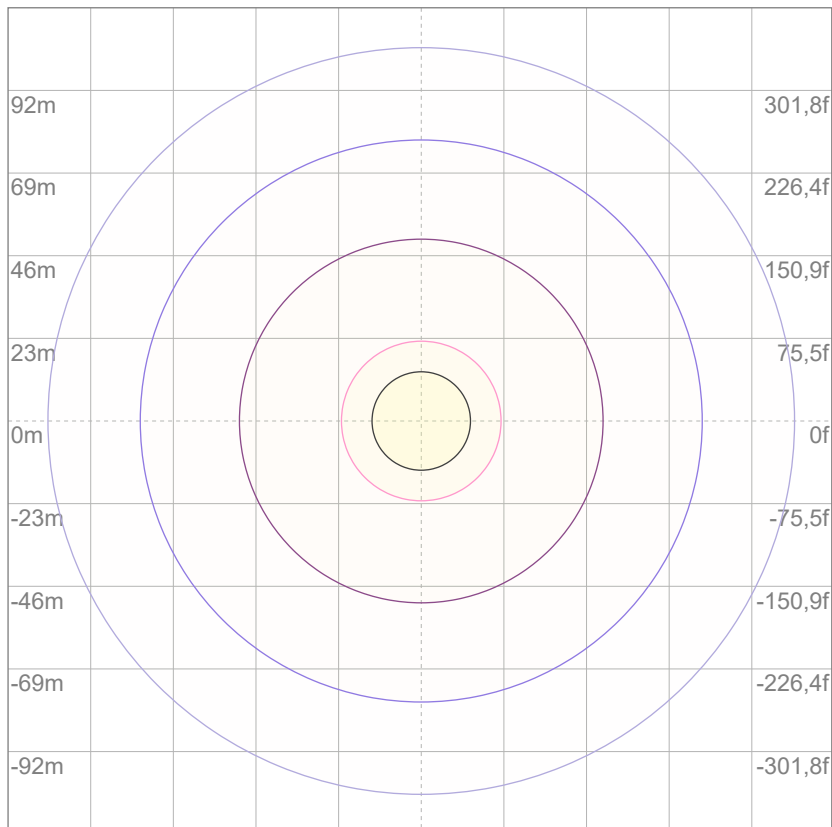
10%	776 cd
20%	1552 cd
30%	2327 cd
40%	3103 cd
50%	3879 cd
60%	4655 cd
70%	5431 cd
80%	6206 cd

Conditions:

Number of c-planes: 2

Candela at center: 7758 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,33 lx
5%	3,88 lx
10%	7,76 lx
30%	23,3 lx
50%	38,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 77,6 lx

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



Total lumen output:

23075 lm

Peak candela output:

8654 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter LD

Target:

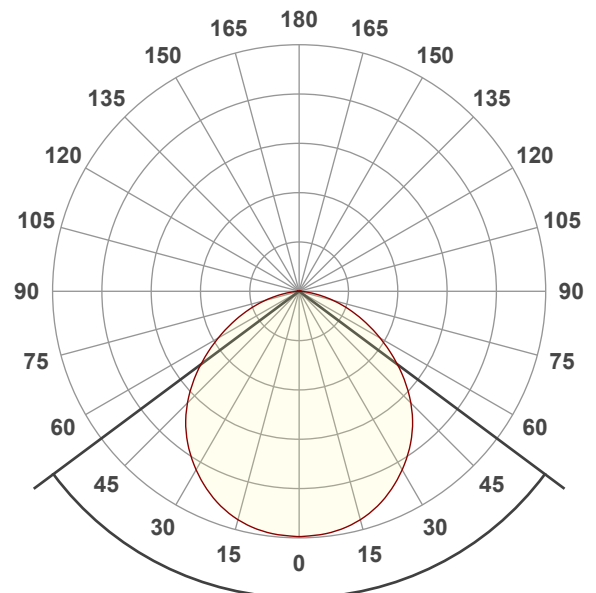
Red

Operator:

Paolo Carvone

Date and time:

09/06/2022 11:34:18

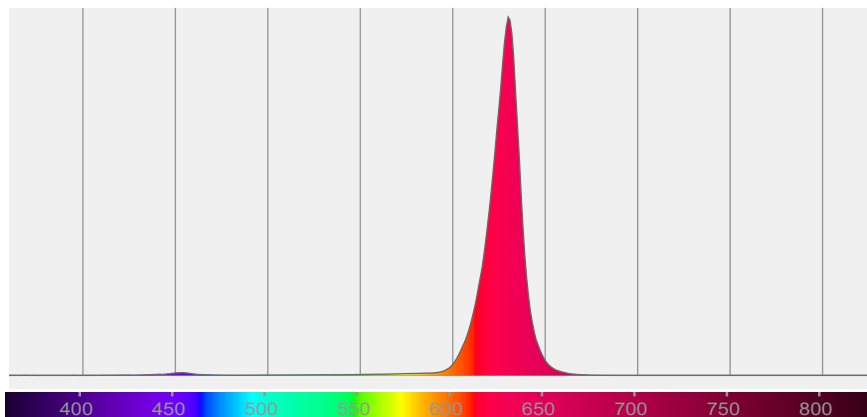


Beam angle 50%: 106,7°

Field angle 10%: 156,3°

Cut off angle 2.5%: 170,6°

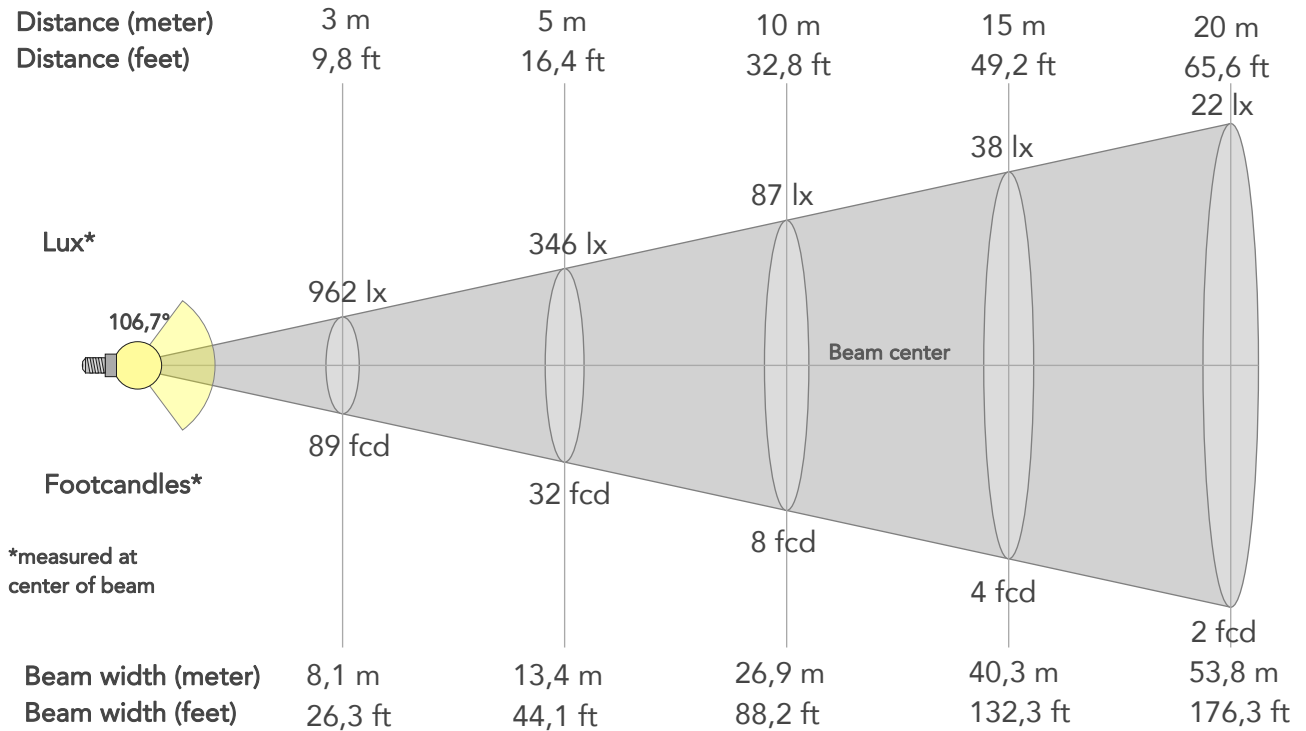
Spectra



# BEAM DETAILS



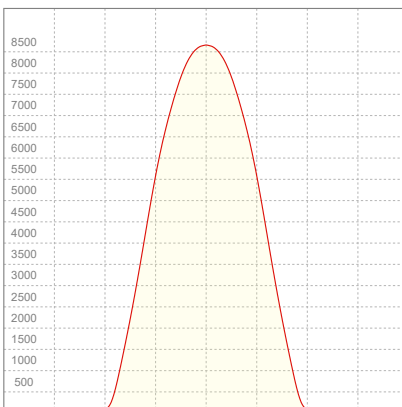
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
106,7°	156,3°	170,6°	81,9%	57,0%



## 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	8654lx	2163lx	962lx	541lx	346lx	154lx	87lx	38lx	22lx	14lx	10lx	5lx	3lx
Footcand.	804fcd	201fcd	89fcd	50fcd	32fcd	14fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	2,7m	5,4m	8,1m	10,8m	13,4m	20,2m	26,9m	40,3m	53,8m	67,2m	80,6m	107,5m	134,4m
Beam wid.	8,9ft	17,7ft	26,3ft	35,2ft	44,1ft	66,1ft	88,2ft	132,3ft	176,3ft	220,4ft	264,5ft	352,7ft	440,9ft

## LINEAR DISTRIBUTION DIAGRAM

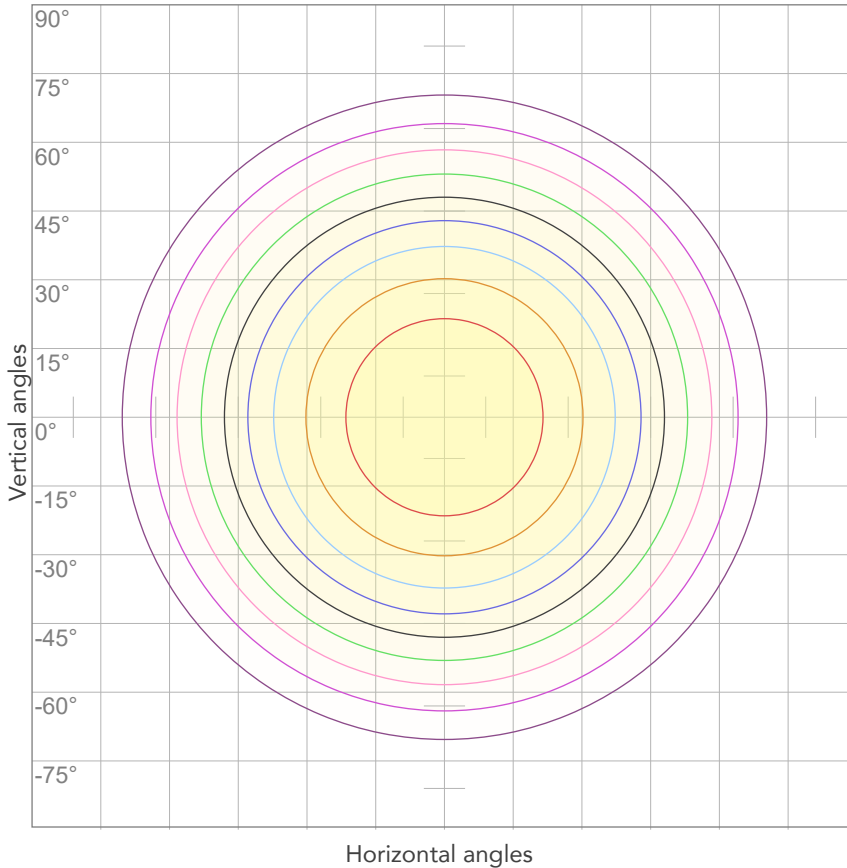


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	2,34A	495W	36lm/W



## ISO CANDELA DIAGRAM



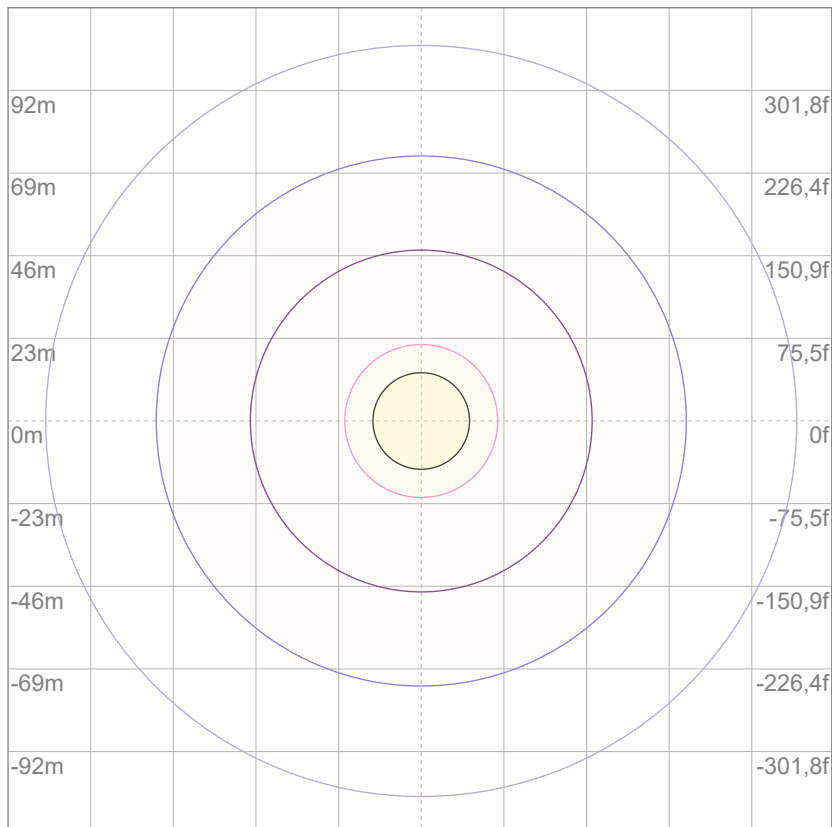
10%	865 cd
20%	1731 cd
30%	2596 cd
40%	3462 cd
50%	4327 cd
60%	5192 cd
70%	6058 cd
80%	6923 cd

Conditions:

Number of c-planes: 2

Candela at center: 8654 cd

## ISO LUX DIAGRAM



3%	2,60 lx
5%	4,33 lx
10%	8,65 lx
30%	26,0 lx
50%	43,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 86,5 lx

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



Total lumen output:

16465 lm

Peak candela output:

10134 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter INT

Target:

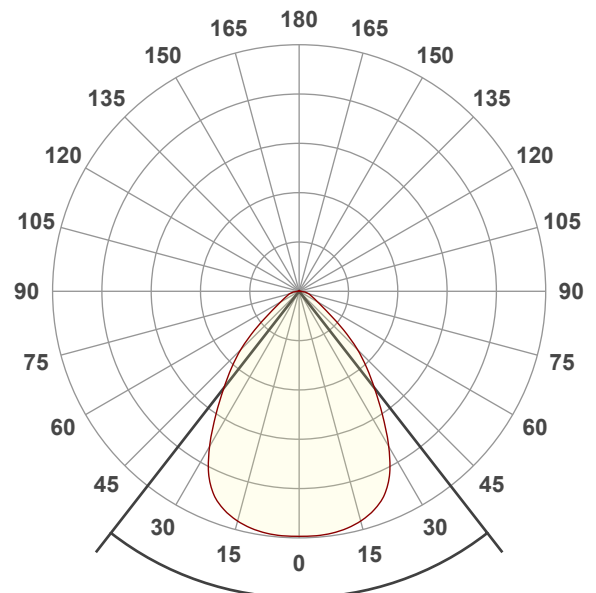
Red

Operator:

Paolo Carvone

Date and time:

24/06/2022 09:03:48

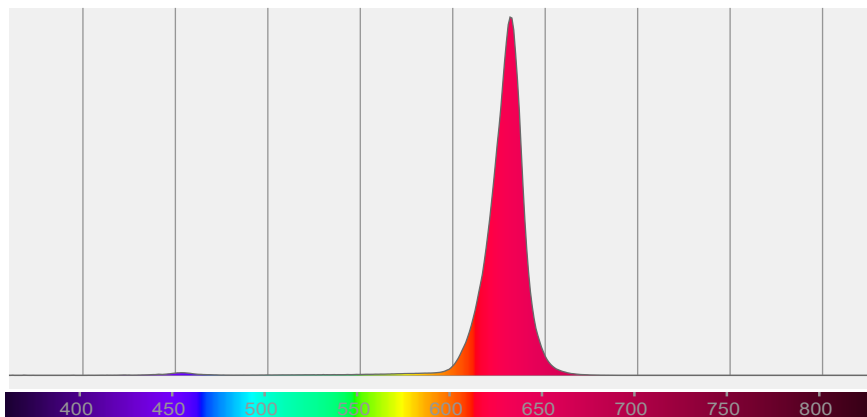


Beam angle 50%: 75,8°

Field angle 10%: 116,7°

Cut off angle 2.5%: 164,6°

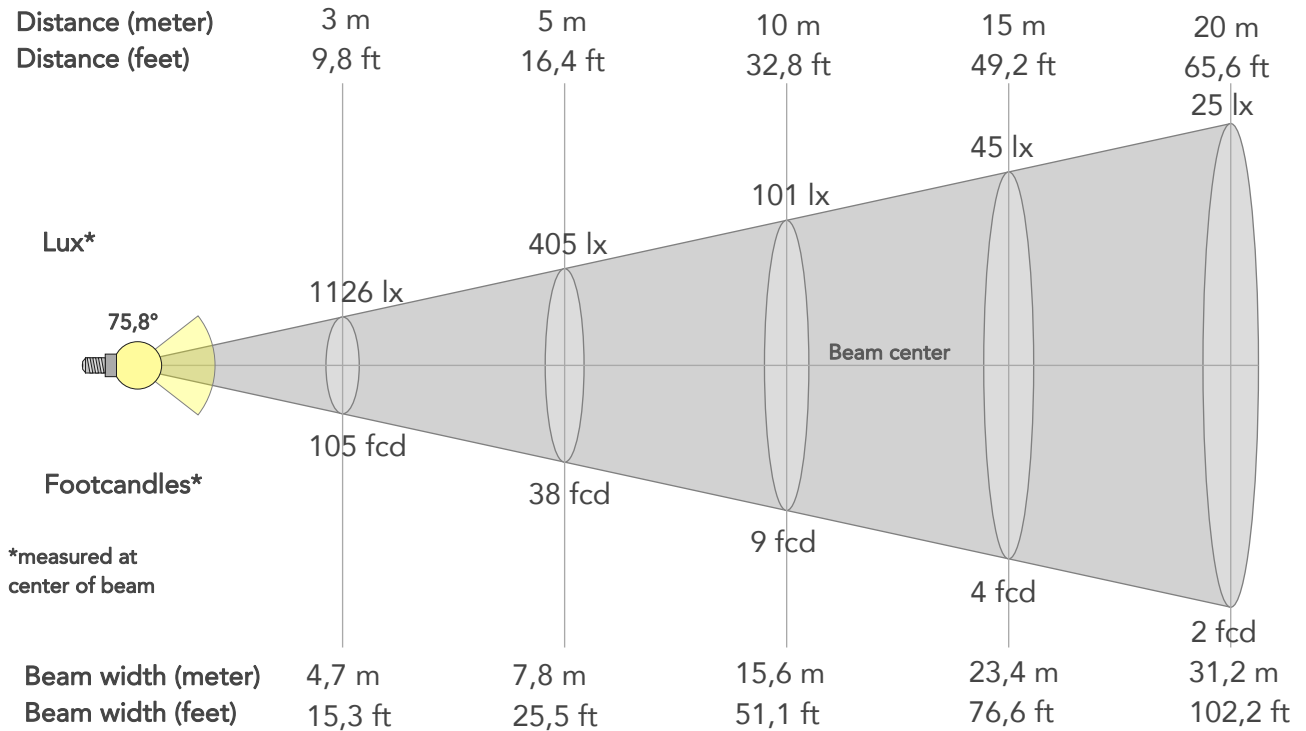
Spectra



# BEAM DETAILS



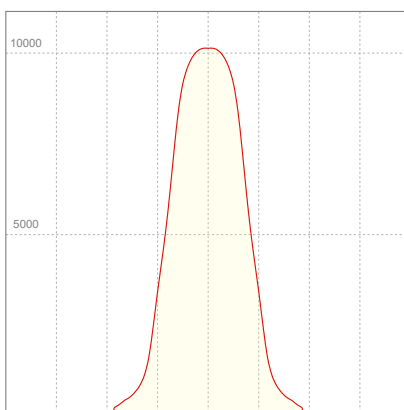
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
75,8°	116,7°	164,6°	92,4%	77,9%



## 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	10132lx	2533lx	1126lx	633lx	405lx	180lx	101lx	45lx	25lx	16lx	11lx	6lx	4lx
Footcand.	941fcd	235fcd	105fcd	59fcd	38fcd	17fcd	9fcd	4fcd	2fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	1,6m	3,1m	4,7m	6,2m	7,8m	11,7m	15,6m	23,4m	31,2m	38,9m	46,7m	62,3m	77,9m
Beam wid.	5,1ft	10,3ft	15,3ft	20,4ft	25,5ft	38,3ft	51,1ft	76,6ft	102,2ft	127,7ft	153,3ft	204,3ft	255,4ft

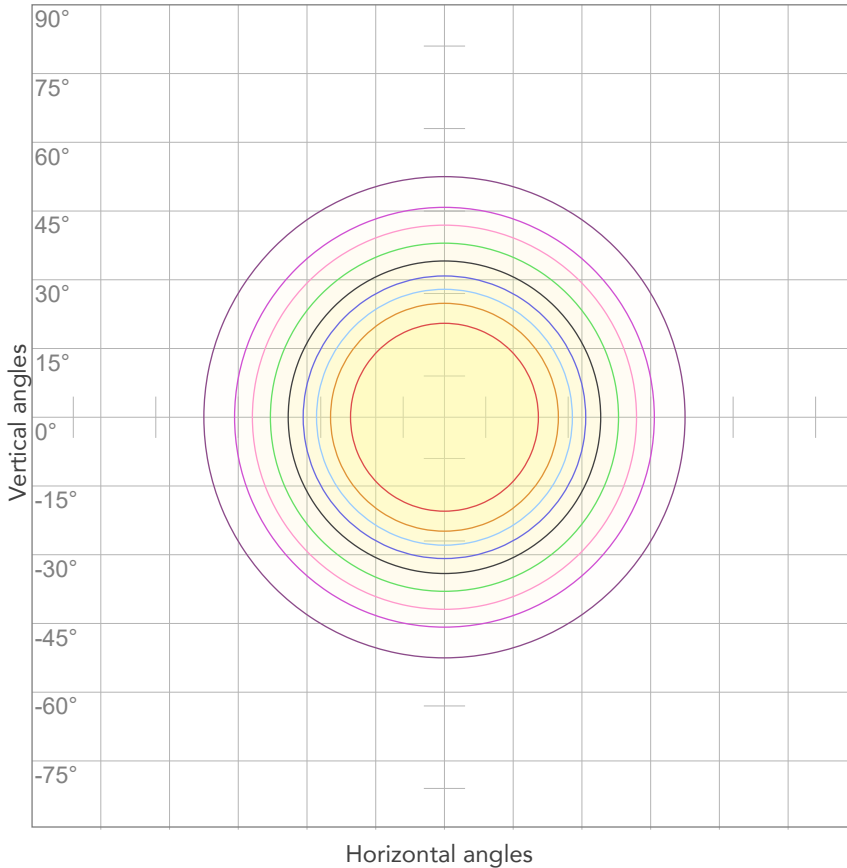
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	2.34A	495W	36lm/W

## ISO CANDELA DIAGRAM



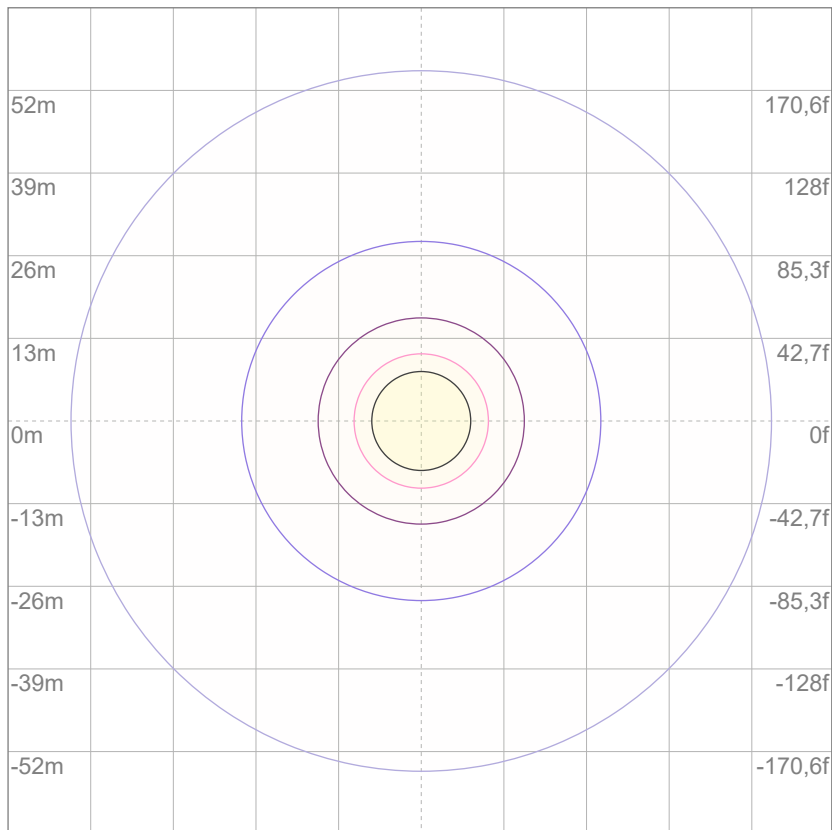
10%	1013 cd
20%	2026 cd
30%	3040 cd
40%	4053 cd
50%	5066 cd
60%	6079 cd
70%	7093 cd
80%	8106 cd

Conditions:

Number of c-planes: 2

Candela at center: 10132 cd

## ISO LUX DIAGRAM



3%	3,04 lx
5%	5,07 lx
10%	10,1 lx
30%	30,4 lx
50%	50,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 101 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

45692 lm

Peak candela output:

15485 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter HD

Target:

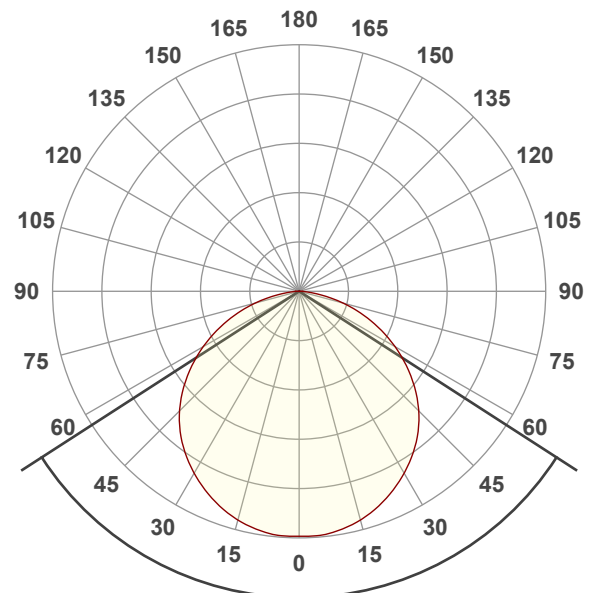
Green

Operator:

Paolo Carvone

Date and time:

09/06/2022 12:18:00

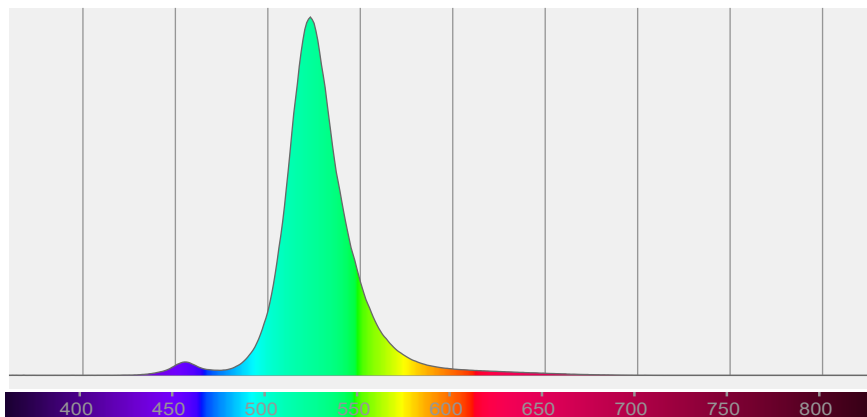


Beam angle 50%: 114,3°

Field angle 10%: 160°

Cut off angle 2.5%: 172,9°

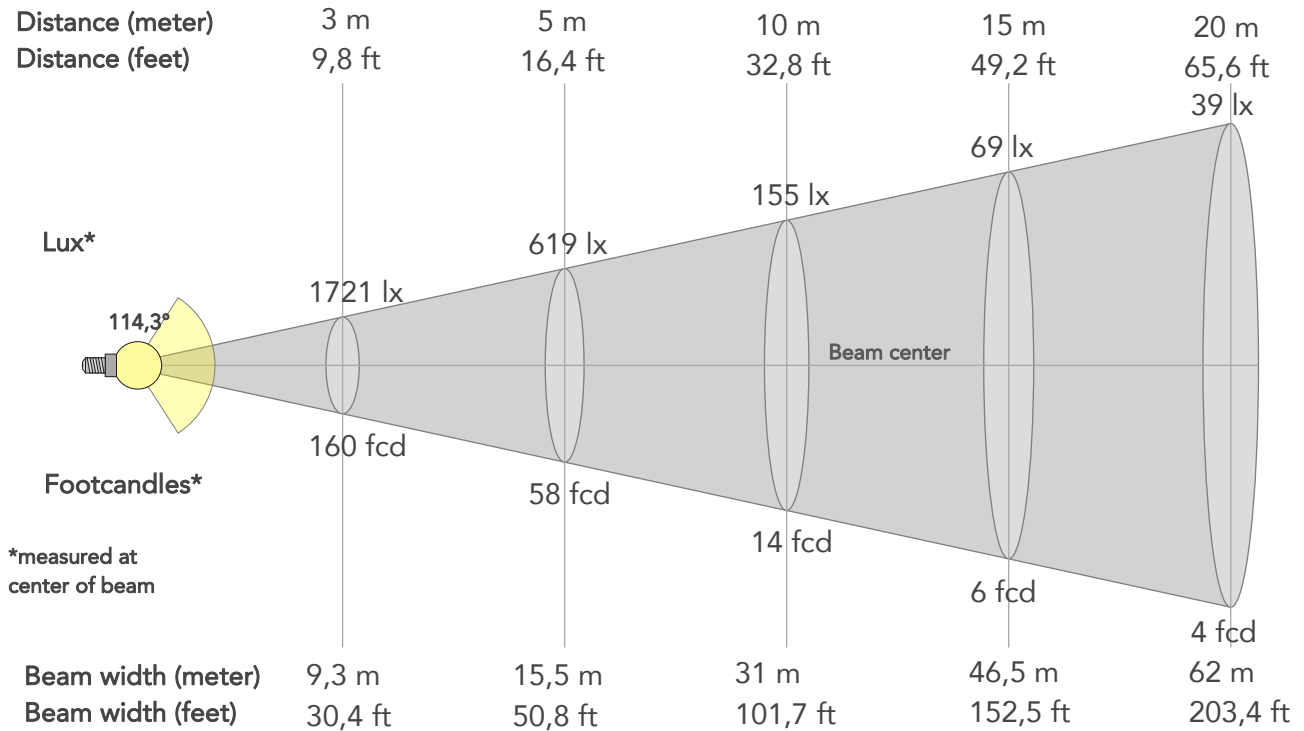
Spectra



# BEAM DETAILS



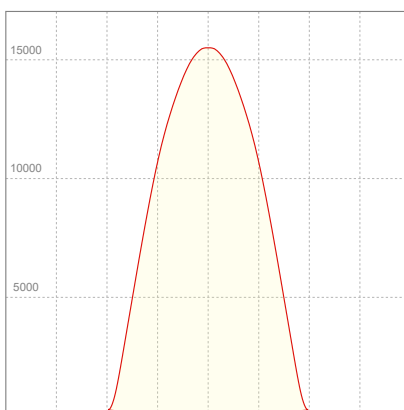
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,3°	160°	172,9°	77,9%	52,7%



## 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	15485lx	3871lx	1721lx	968lx	619lx	275lx	155lx	69lx	39lx	25lx	17lx	10lx	6lx
Footcand.	1439fcd	360fcd	160fcd	90fcd	58fcd	26fcd	14fcd	6fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	3,1m	6,2m	9,3m	12,4m	15,5m	23,2m	31m	46,5m	62m	77,5m	93m	124m	155m
Beam wid.	10,2ft	20,5ft	30,4ft	40,6ft	50,8ft	76,3ft	101,7ft	152,5ft	203,4ft	254,2ft	305ft	406,7ft	508,4ft

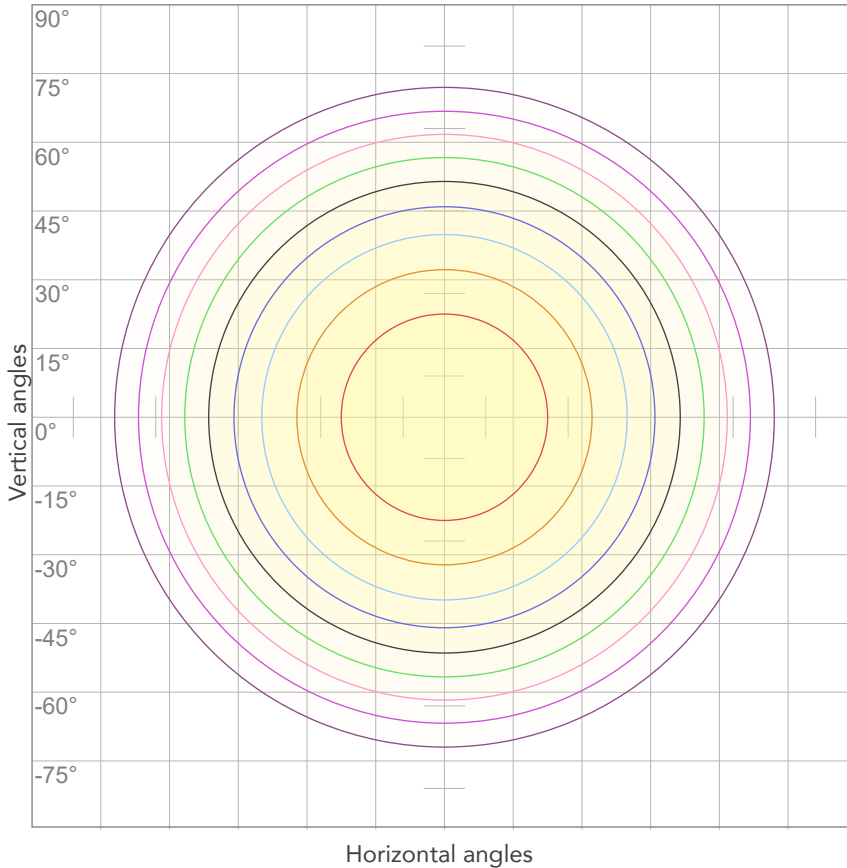
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	2,87A	622W	73lm/W

## ISO CANDELA DIAGRAM



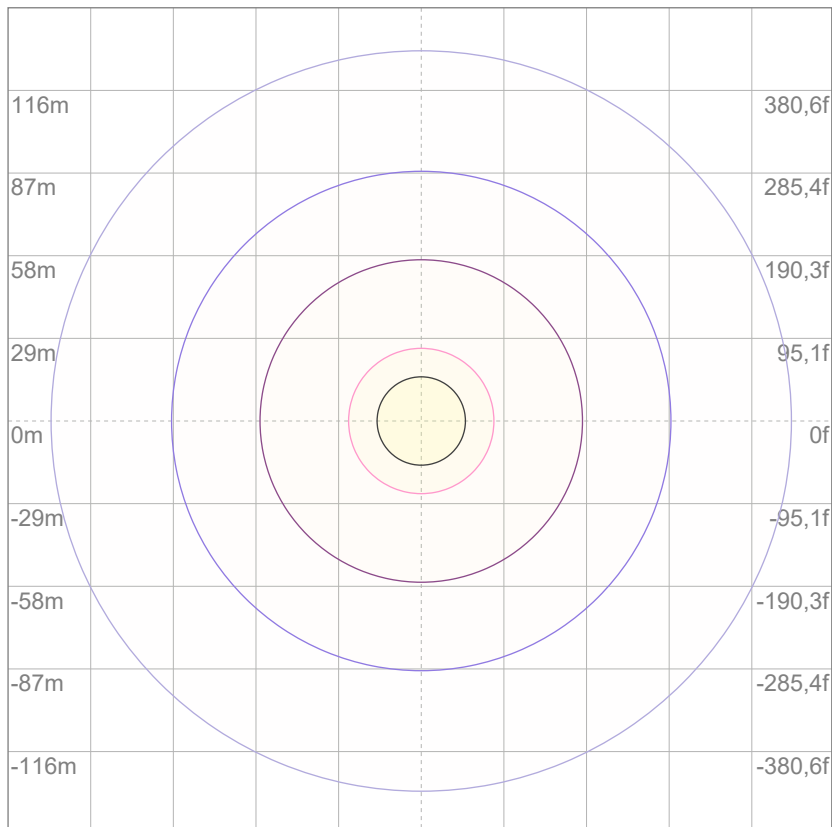
10%	1549 cd
20%	3097 cd
30%	4646 cd
40%	6194 cd
50%	7743 cd
60%	9291 cd
70%	10840 cd
80%	12388 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 15485 cd

## ISO LUX DIAGRAM



3%	4,65 lx
5%	7,74 lx
10%	15,5 lx
30%	46,5 lx
50%	77,4 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 155 lx

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



Total lumen output:

52048 lm

Peak candela output:

18837 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter MD

Target:

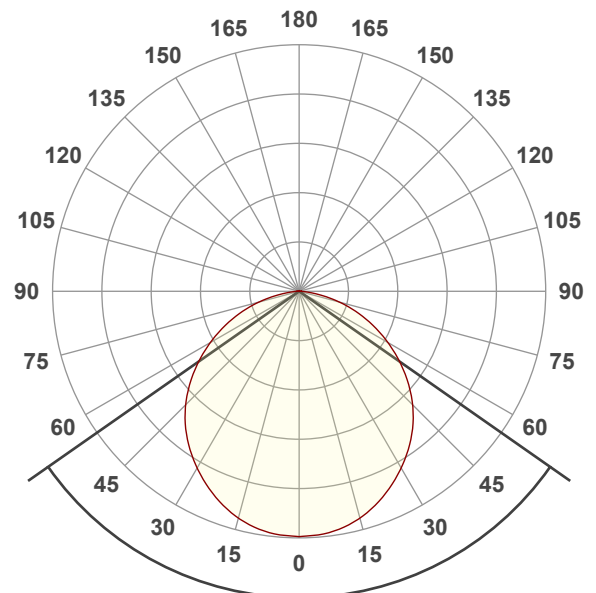
Green

Operator:

Paolo Carvone

Date and time:

09/06/2022 10:50:00

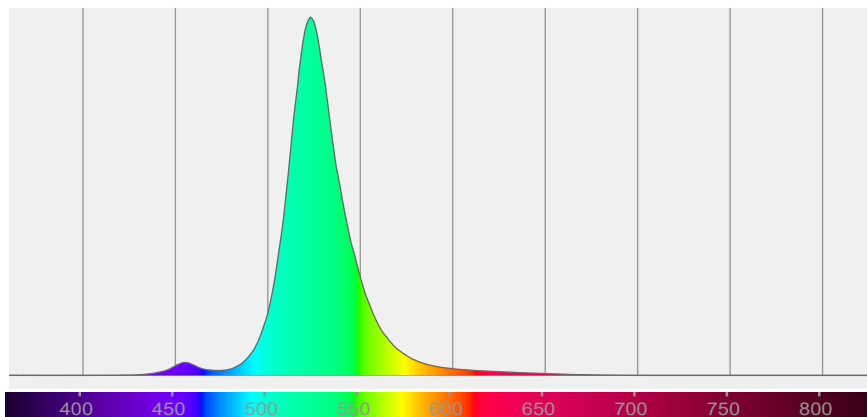


Beam angle 50%: 110,1°

Field angle 10%: 158,7°

Cut off angle 2.5%: 172,1°

Spectra

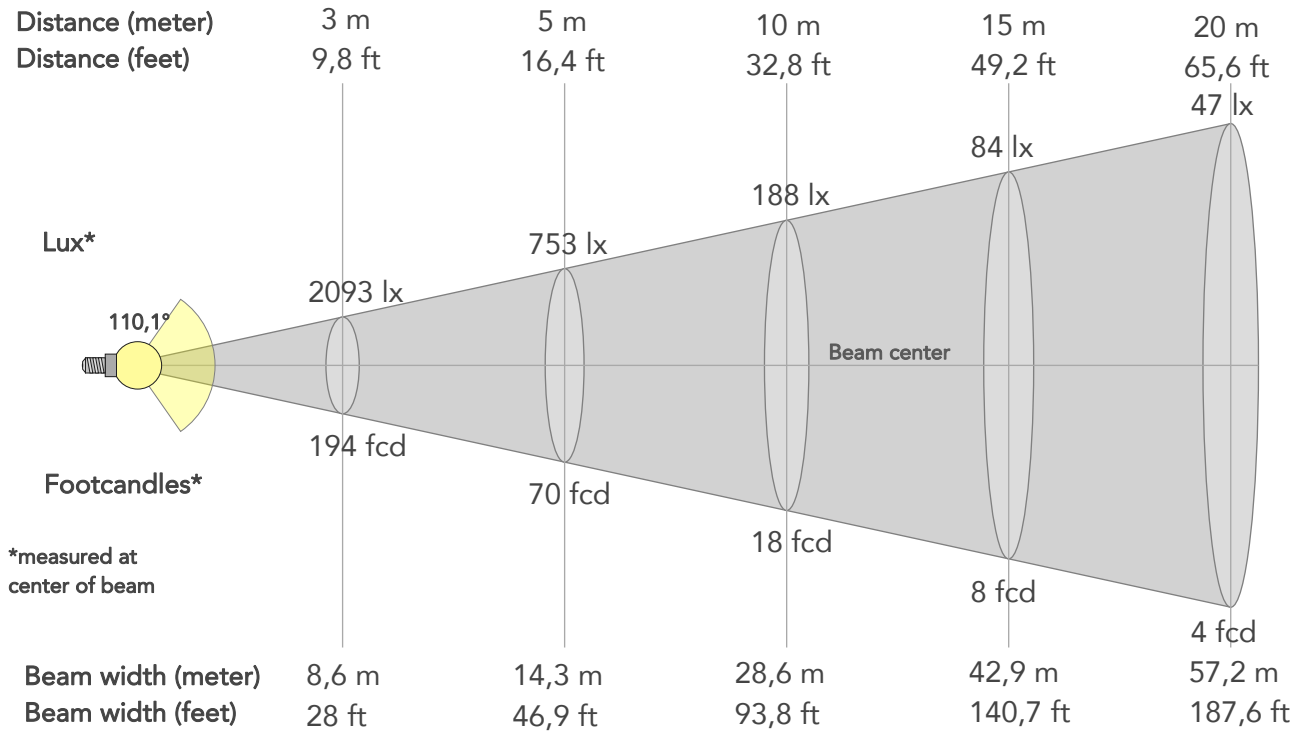




# BEAM DETAILS



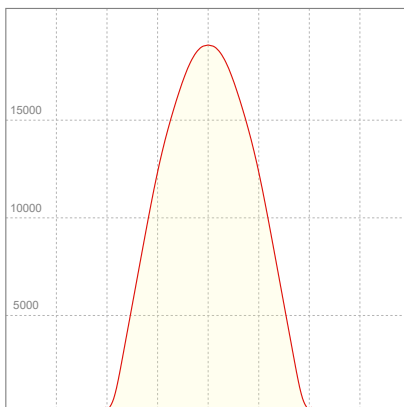
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
110,1°	158,7°	172,1°	79,9%	54,7%



## 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	18837lx	4709lx	2093lx	1177lx	753lx	335lx	188lx	84lx	47lx	30lx	21lx	12lx	8lx
Footcand.	1750fcd	438fcd	194fcd	109fcd	70fcd	31fcd	18fcd	8fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	2,9m	5,7m	8,6m	11,4m	14,3m	21,4m	28,6m	42,9m	57,2m	71,5m	85,8m	114,4m	143m
Beam wid.	9,4ft	18,9ft	28ft	37,5ft	46,9ft	70,3ft	93,8ft	140,7ft	187,6ft	234,5ft	281,4ft	375,2ft	469ft

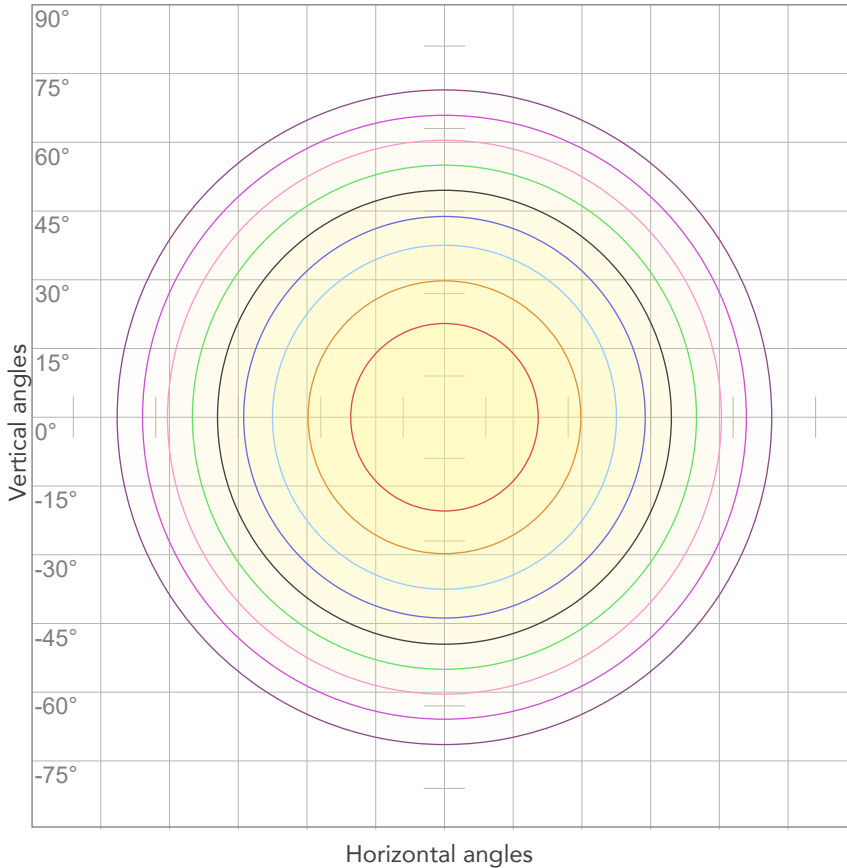
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	2,87	622W	73lm/W

## ISO CANDELA DIAGRAM



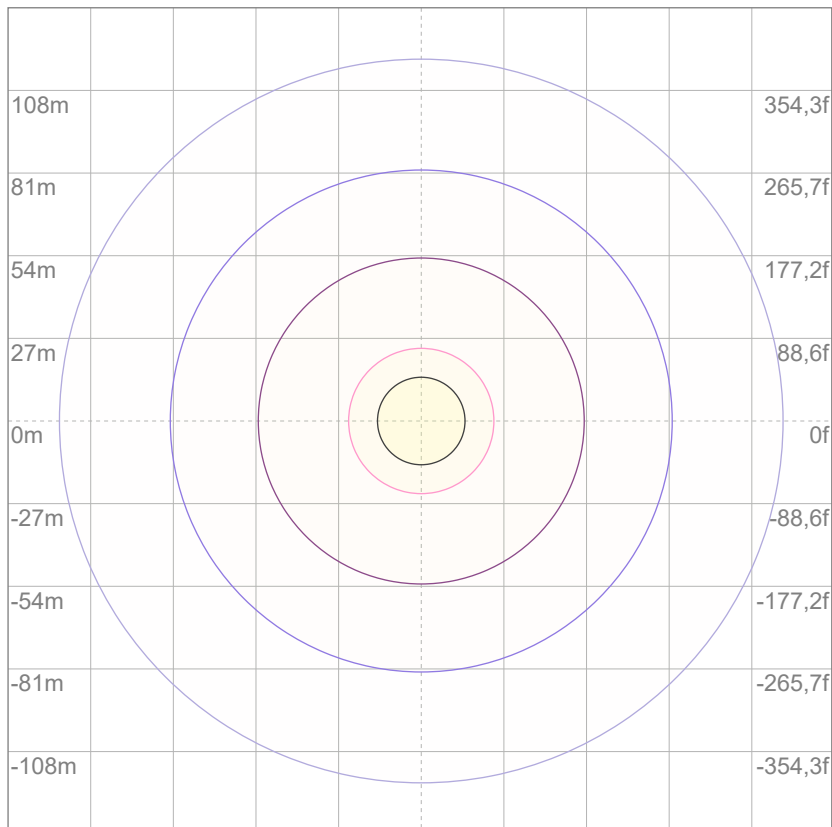
10%	1884 cd
20%	3767 cd
30%	5651 cd
40%	7535 cd
50%	9419 cd
60%	11302 cd
70%	13186 cd
80%	15070 cd

Conditions:

Number of c-planes: 2

Candela at center: 18837 cd

## ISO LUX DIAGRAM



3%	5,65 lx
5%	9,42 lx
10%	18,8 lx
30%	56,5 lx
50%	94,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 188 lx

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



Total lumen output:

54443 lm

Peak candela output:

19962 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter LD

Target:

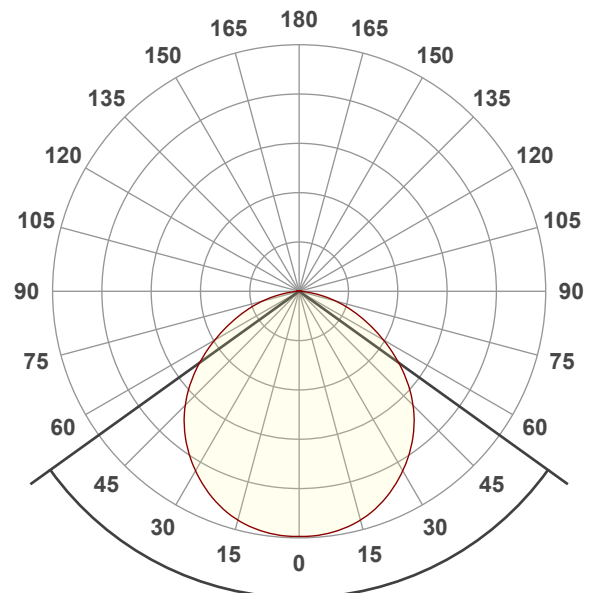
Green

Operator:

Paolo Carvone

Date and time:

09/06/2022 11:36:07

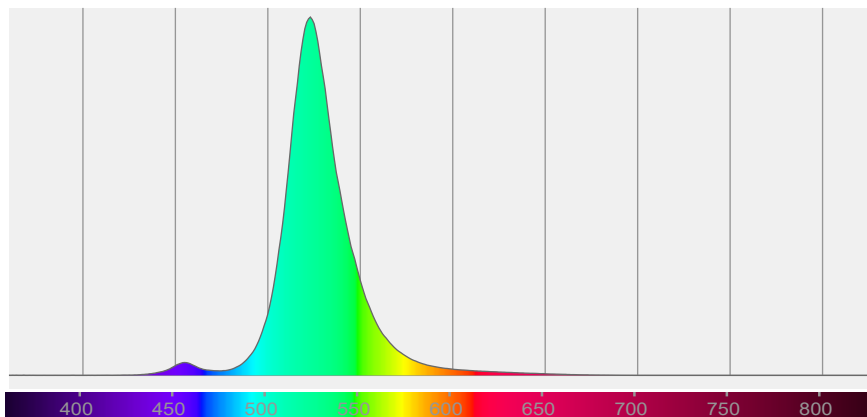


Beam angle 50%: 108,7°

Field angle 10%: 157,6°

Cut off angle 2.5%: 170,8°

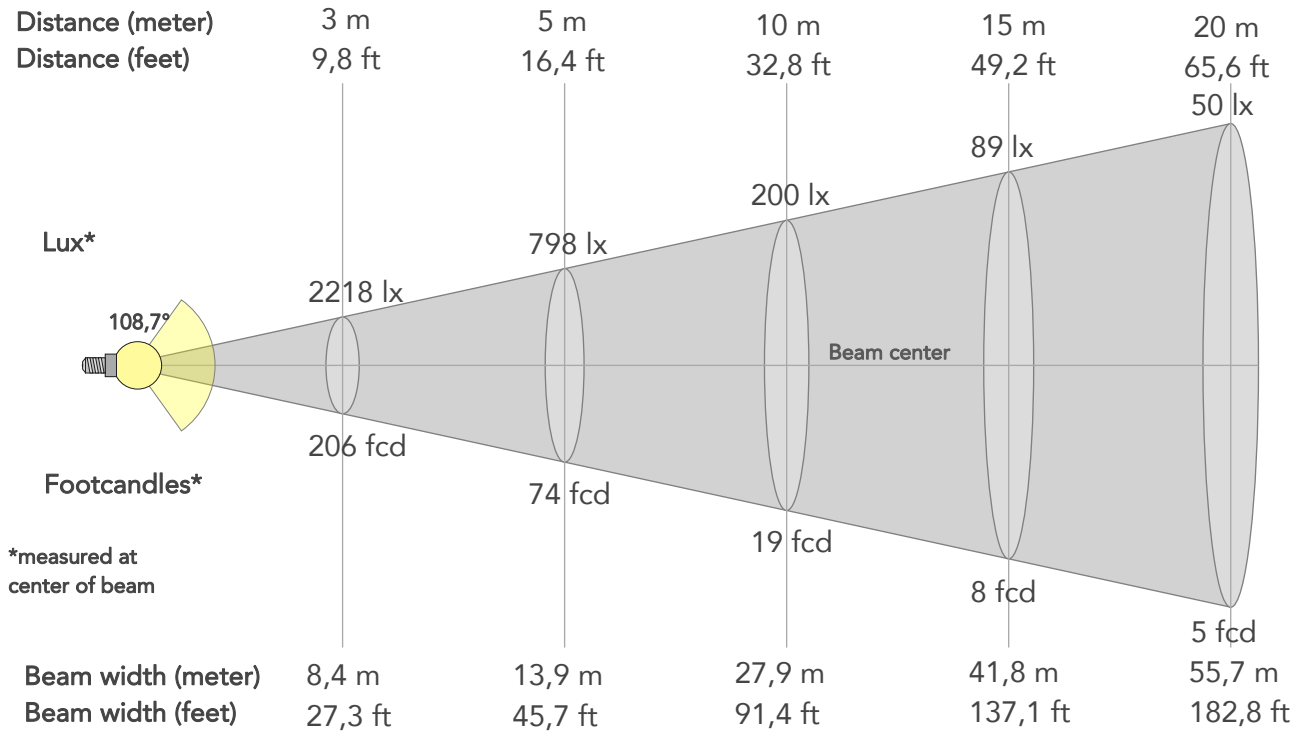
Spectra



# BEAM DETAILS



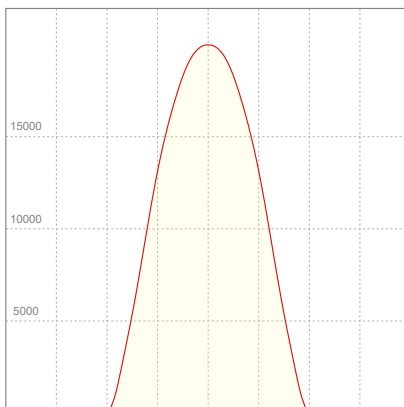
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
108,7°	157,6°	170,8°	81,3%	56,2%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	19962lx	4991lx	2218lx	1248lx	798lx	355lx	200lx	89lx	50lx	32lx	22lx	12lx	8lx
Footcand.	1855fcd	464fcd	206fcd	116fcd	74fcd	33fcd	19fcd	8fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	2,8m	5,6m	8,4m	11,1m	13,9m	20,9m	27,9m	41,8m	55,7m	69,6m	83,6m	111,4m	139,3m
Beam wid.	9,2ft	18,4ft	27,3ft	36,5ft	45,7ft	68,5ft	91,4ft	137,1ft	182,8ft	228,5ft	274,1ft	365,5ft	456,9ft

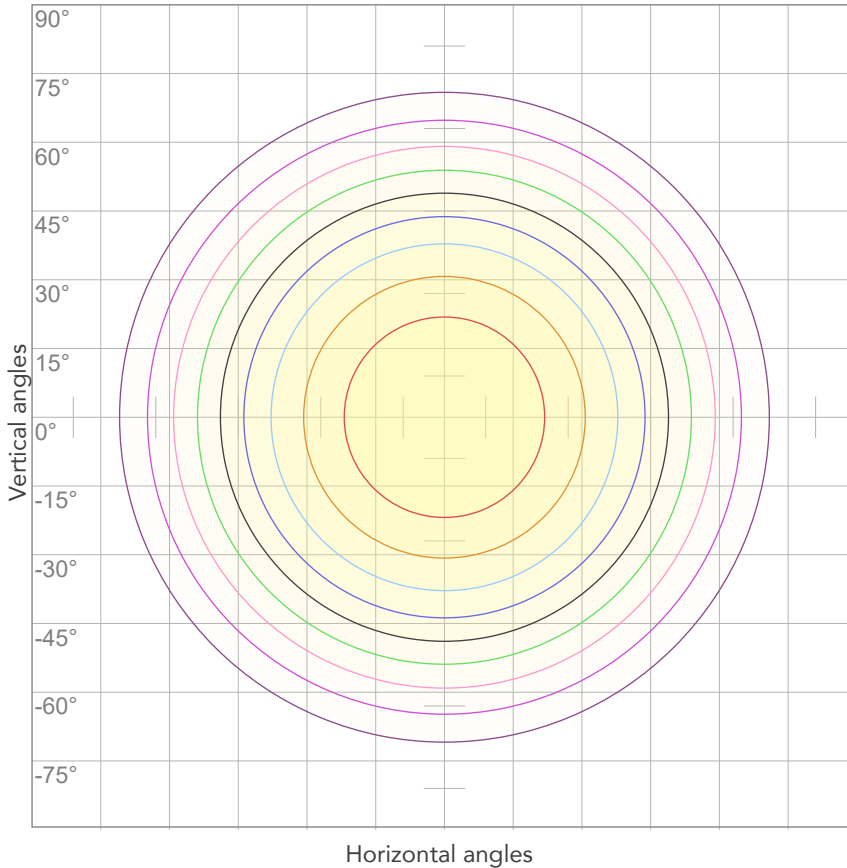
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	2,87A	622W	73lm/W

## ISO CANDELA DIAGRAM



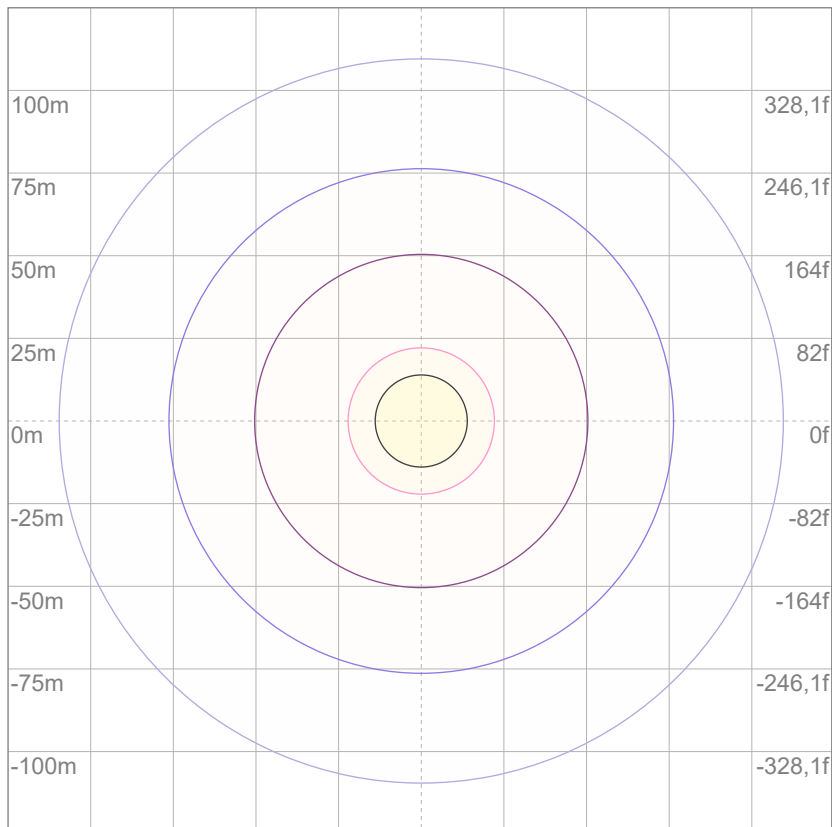
10%	1996 cd
20%	3992 cd
30%	5989 cd
40%	7985 cd
50%	9981 cd
60%	11977 cd
70%	13974 cd
80%	15970 cd

Conditions:

Number of c-planes: 2

Candela at center: 19962 cd

## ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 200 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

41479 lm

Peak candela output:

24849 cd

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter INT

Target:

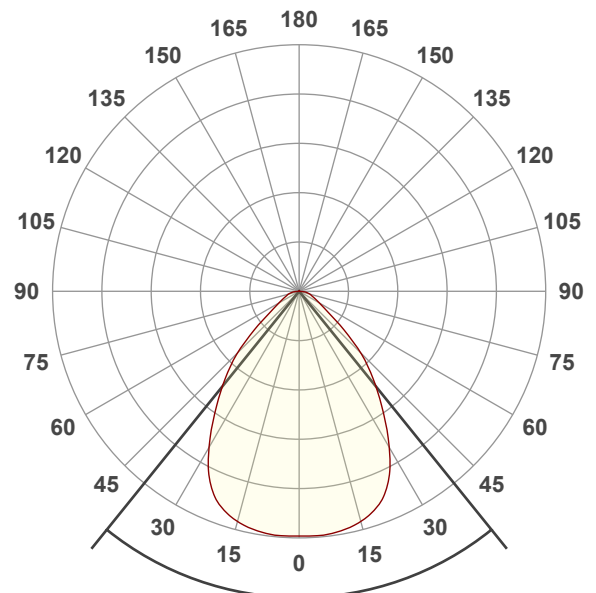
Green

Operator:

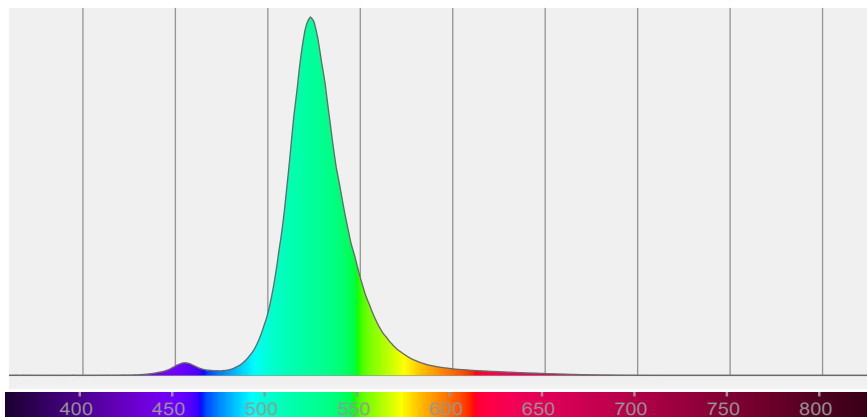
Paolo Carvone

Date and time:

24/06/2022 09:06:17



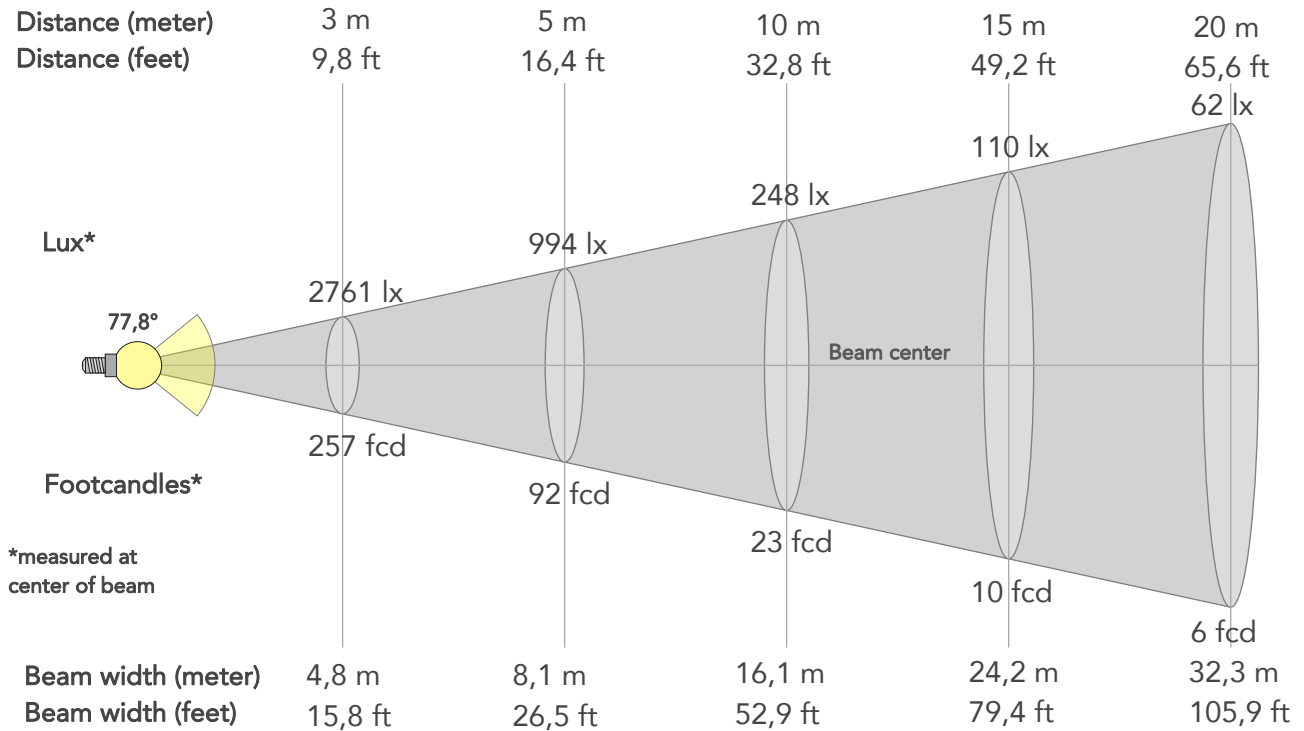
Spectra



# BEAM DETAILS



Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
77,8°	118,8°	166,5°	91,8%	77,0%

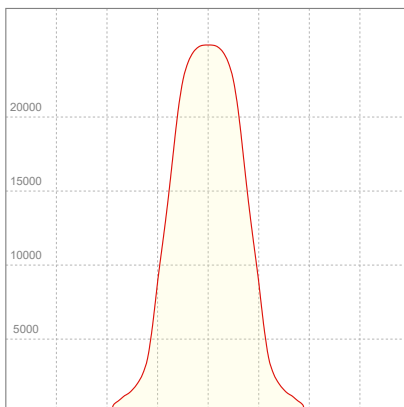


\*measured at center of beam

## 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	24849lx	6212lx	2761lx	1553lx	994lx	442lx	248lx	110lx	62lx	40lx	28lx	16lx	10lx
Footcand.	2309fcd	577fcd	257fcd	144fcd	92fcd	41fcd	23fcd	10fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	1,6m	3,2m	4,8m	6,5m	8,1m	12,1m	16,1m	24,2m	32,3m	40,3m	48,4m	64,5m	80,7m
Beam wid.	5,3ft	10,6ft	15,8ft	21,1ft	26,5ft	39,7ft	52,9ft	79,4ft	105,9ft	132,3ft	158,8ft	211,7ft	264,6ft

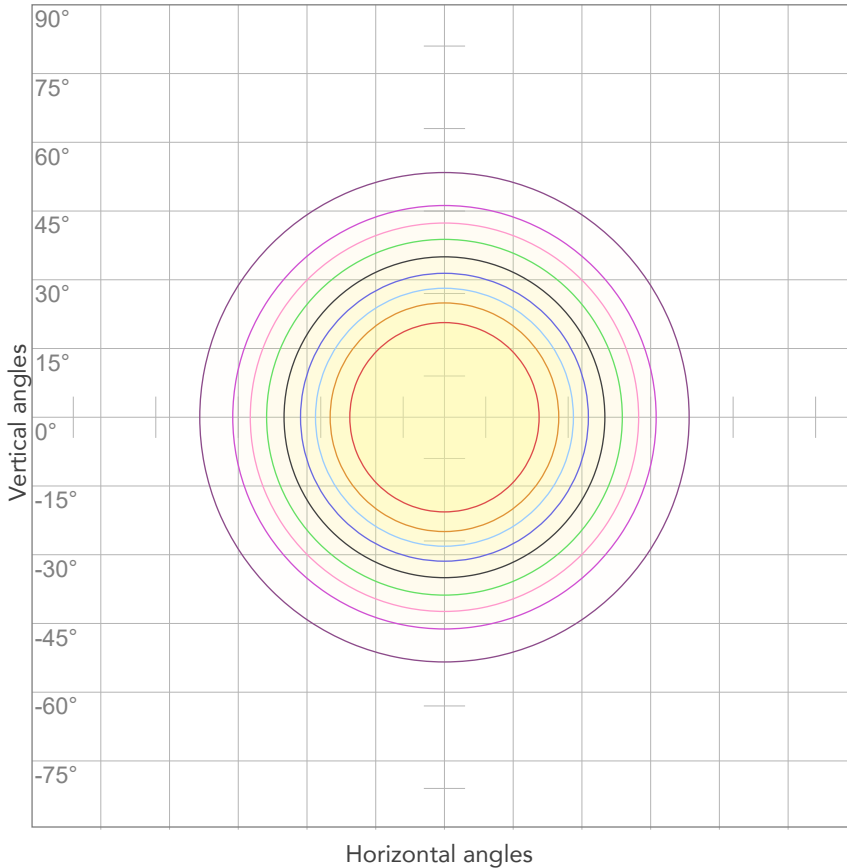
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	2.87A	622	73lm/W

## ISO CANDELA DIAGRAM



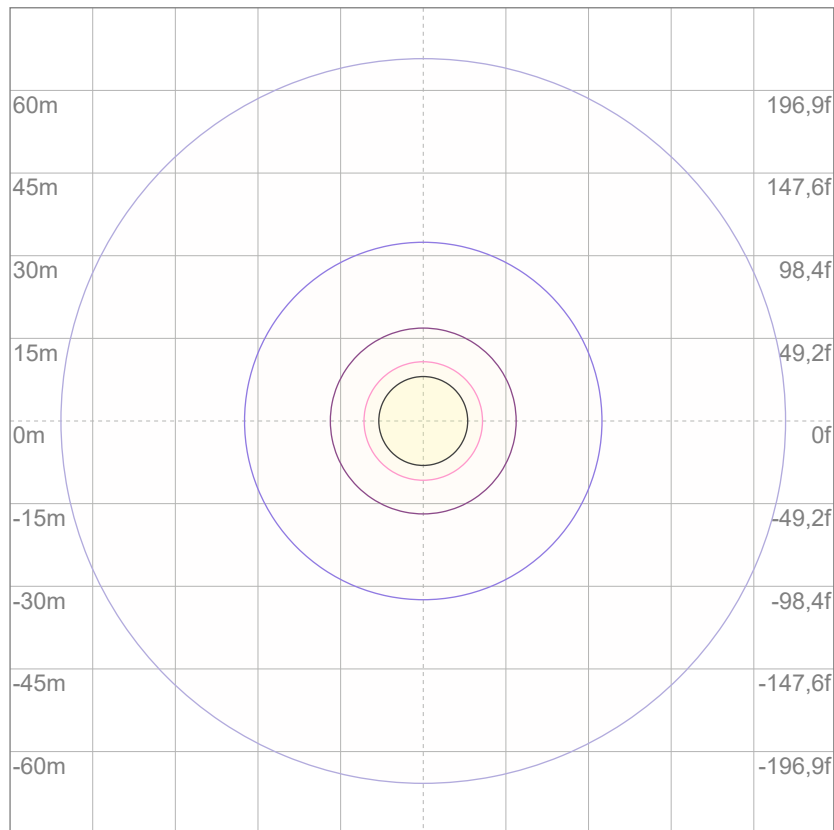
10%	2485 cd
20%	4970 cd
30%	7455 cd
40%	9940 cd
50%	12425 cd
60%	14909 cd
70%	17394 cd
80%	19879 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 24849 cd

## ISO LUX DIAGRAM



3%	7,45 lx
5%	12,4 lx
10%	24,8 lx
30%	74,5 lx
50%	124 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 248 lx

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





Total lumen output:

7600 lm

Peak candela output:

2738 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter HD

Target:

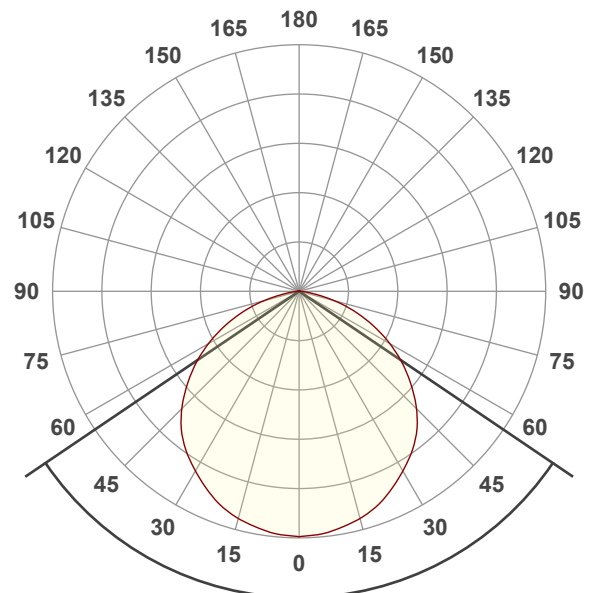
Blue

Operator:

Paolo Carvone

Date and time:

09/06/2022 12:20:02

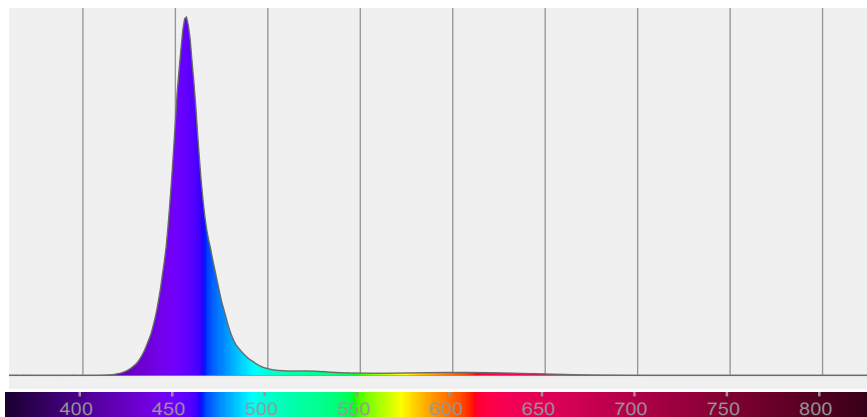


Beam angle 50%: 111,8°

Field angle 10%: 155,6°

Cut off angle 2.5%: 168,9°

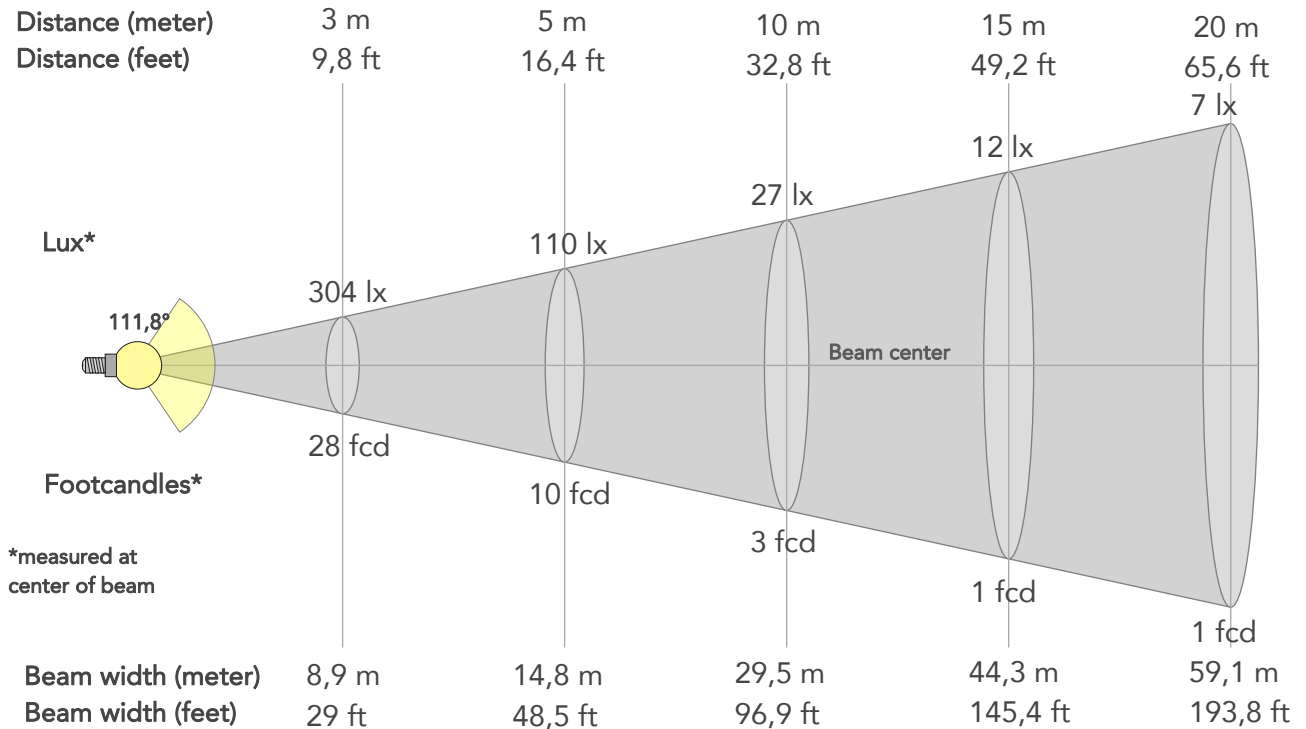
Spectra



# BEAM DETAILS



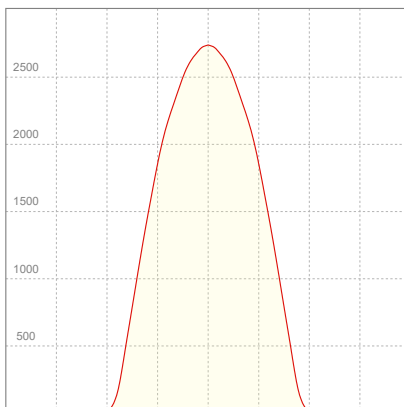
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
111,8°	155,6°	168,9°	81,3%	55,4%



## 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	2738lx	684lx	304lx	171lx	110lx	49lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	254fcd	64fcd	28fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	3m	5,9m	8,9m	11,8m	14,8m	22,2m	29,5m	44,3m	59,1m	73,9m	88,6m	118,2m	147,7m
Beam wid.	9,7ft	19,5ft	29ft	38,7ft	48,5ft	72,7ft	96,9ft	145,4ft	193,8ft	242,3ft	290,7ft	387,6ft	484,5ft

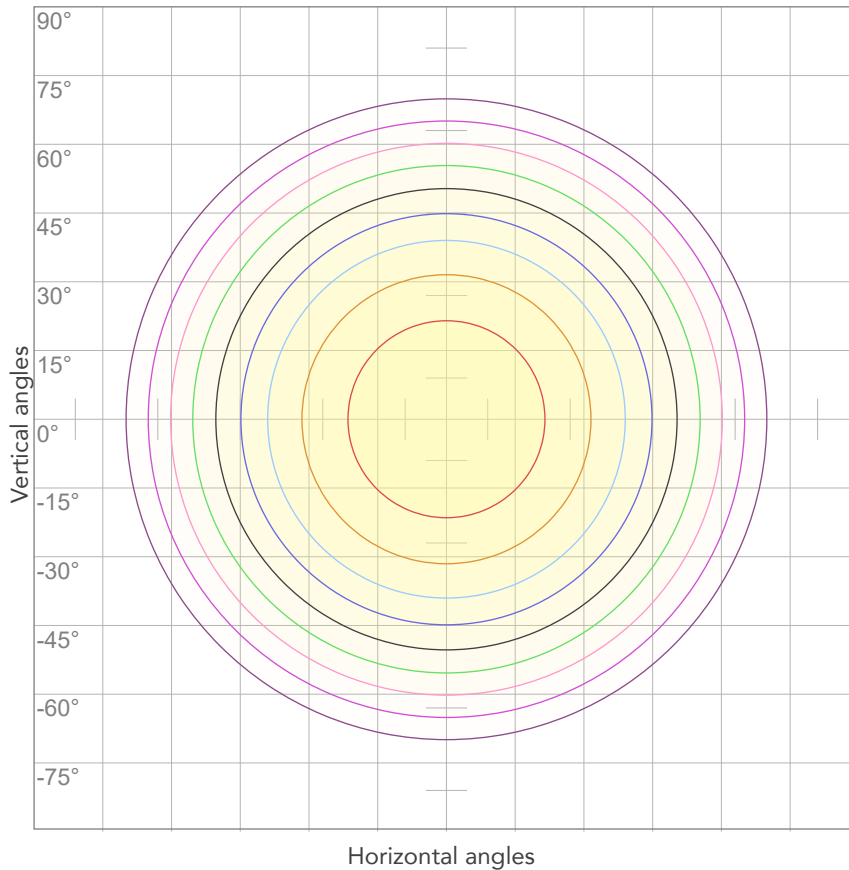
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	1,82A	376W	20lm/W

## ISO CANDELA DIAGRAM



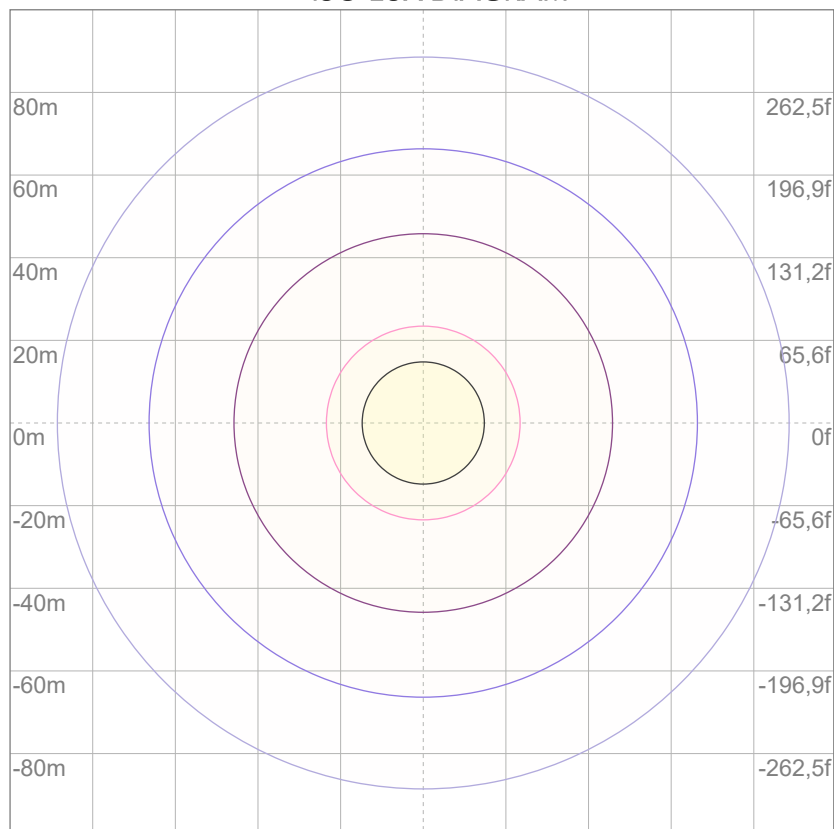
10%	274 cd
20%	548 cd
30%	821 cd
40%	1095 cd
50%	1369 cd
60%	1643 cd
70%	1916 cd
80%	2190 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 2738 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,821 lx
5%	1,37 lx
10%	2,74 lx
30%	8,21 lx
50%	13,7 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 27,4 lx

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



Total lumen output:

8246 lm

Peak candela output:

3105 cd

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter MD

Target:

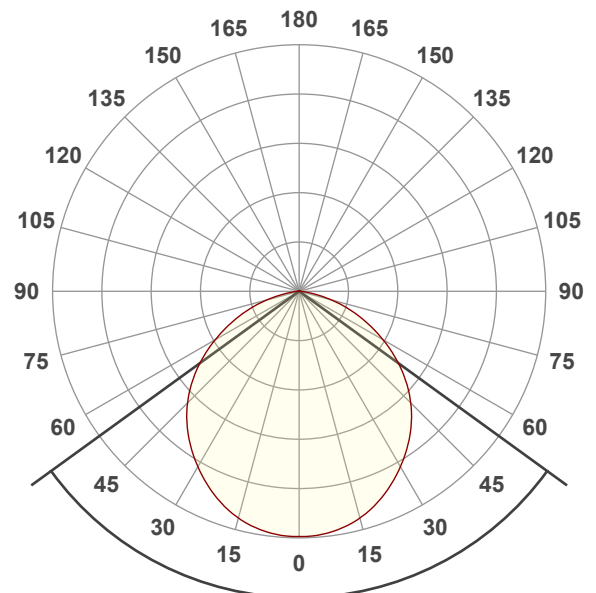
Blue

Operator:

Paolo Carvone

Date and time:

09/06/2022 11:00:13

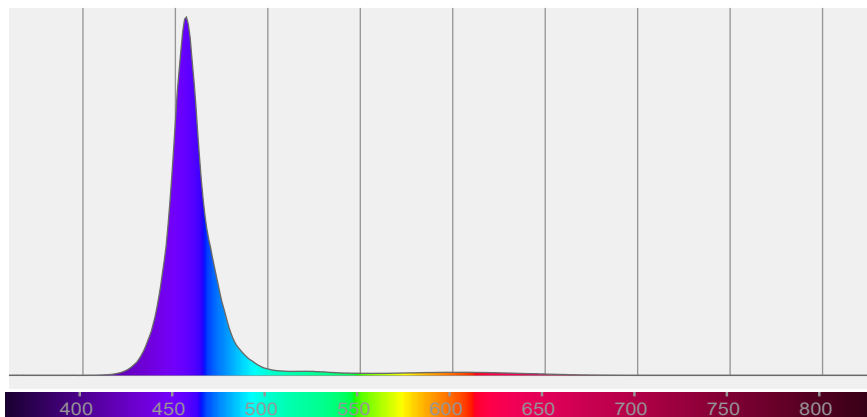


Beam angle 50%: 108,2°

Field angle 10%: 154,7°

Cut off angle 2.5%: 168,2°

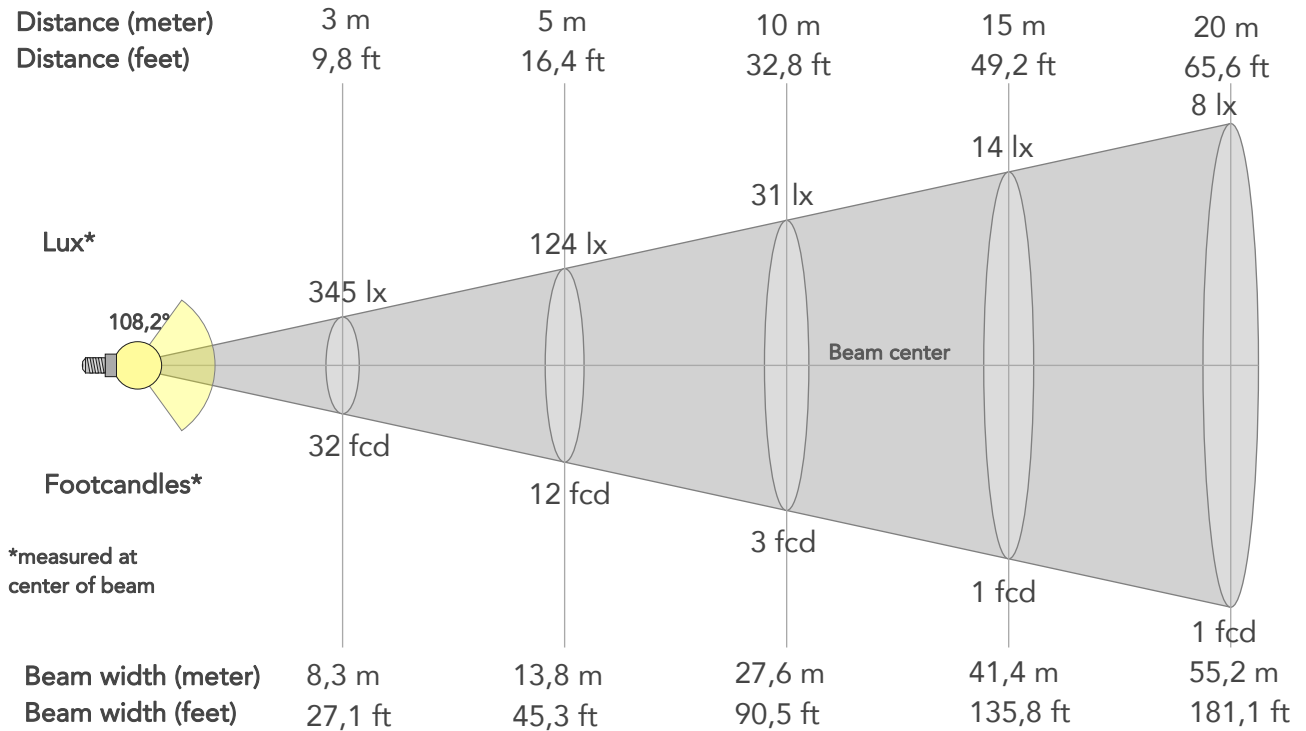
Spectra



# BEAM DETAILS



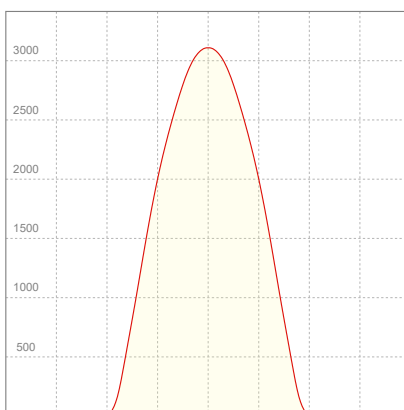
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
108,2°	154,7°	168,2°	82,1%	56,6%



## 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	3105lx	776lx	345lx	194lx	124lx	55lx	31lx	14lx	8lx	5lx	3lx	2lx	1lx
Footcand.	288fcd	72fcd	32fcd	18fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,8m	5,5m	8,3m	11m	13,8m	20,7m	27,6m	41,4m	55,2m	69m	82,8m	110,4m	138m
Beam wid.	9,1ft	18,2ft	27,1ft	36,2ft	45,3ft	67,9ft	90,5ft	135,8ft	181,1ft	226,4ft	271,6ft	362,2ft	452,7ft

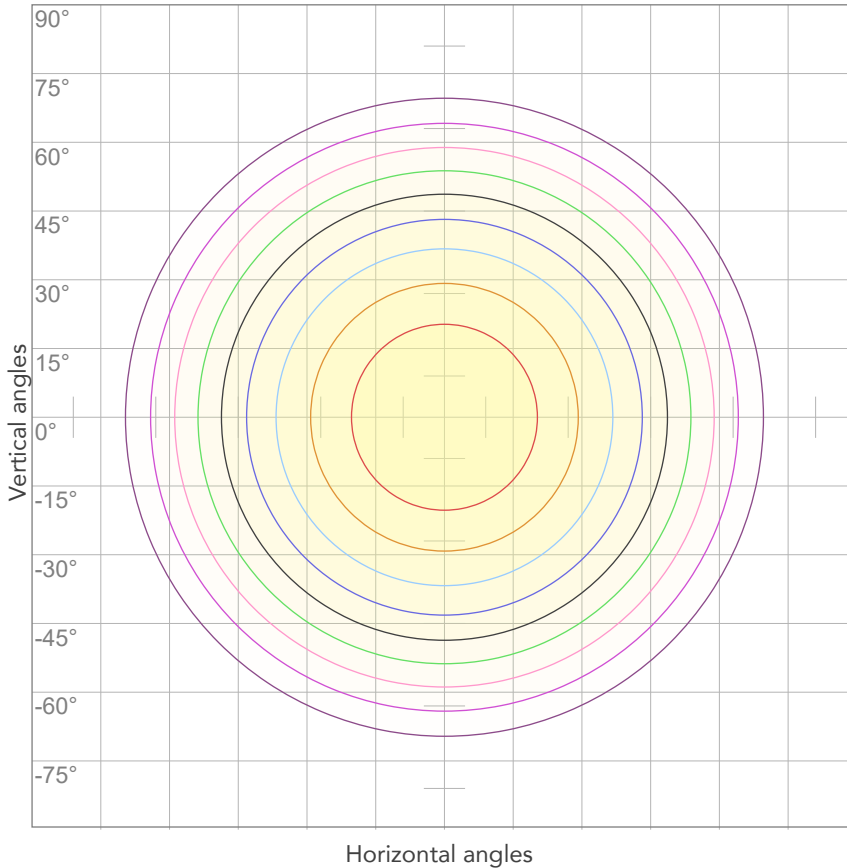
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	1.82A	376W	20lm/W

## ISO CANDELA DIAGRAM



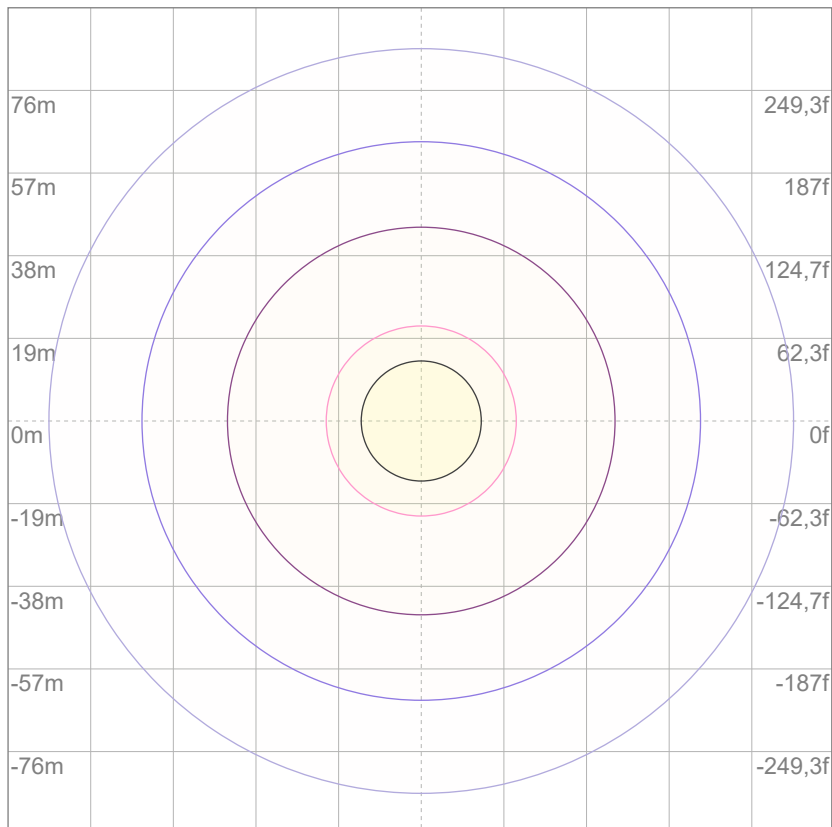
10%	311 cd
20%	621 cd
30%	932 cd
40%	1242 cd
50%	1553 cd
60%	1863 cd
70%	2174 cd
80%	2484 cd

Conditions:

Number of c-planes: 2

Candela at center: 3105 cd

## ISO LUX DIAGRAM



3%	0,932 lx
5%	1,55 lx
10%	3,11 lx
30%	9,32 lx
50%	15,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 31,1 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

8353 lm

Peak candela output:

3264 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter LD

Target:

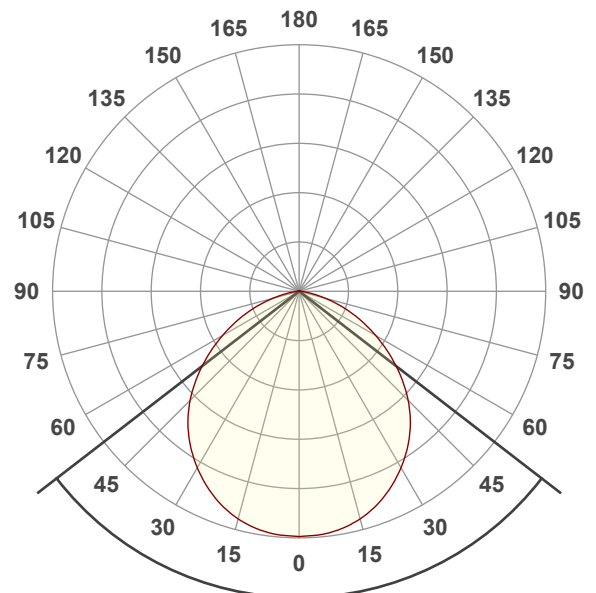
Blue

Operator:

Paolo Carvone

Date and time:

09/06/2022 11:37:58

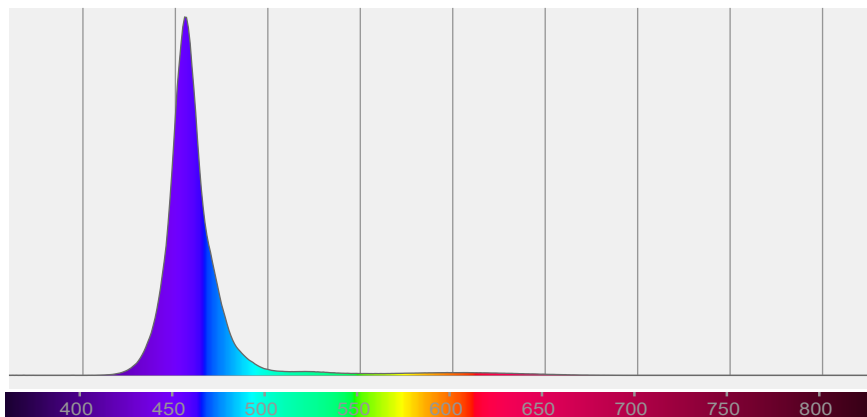


Beam angle 50%: 104,7°

Field angle 10%: 151,8°

Cut off angle 2.5%: 167,6°

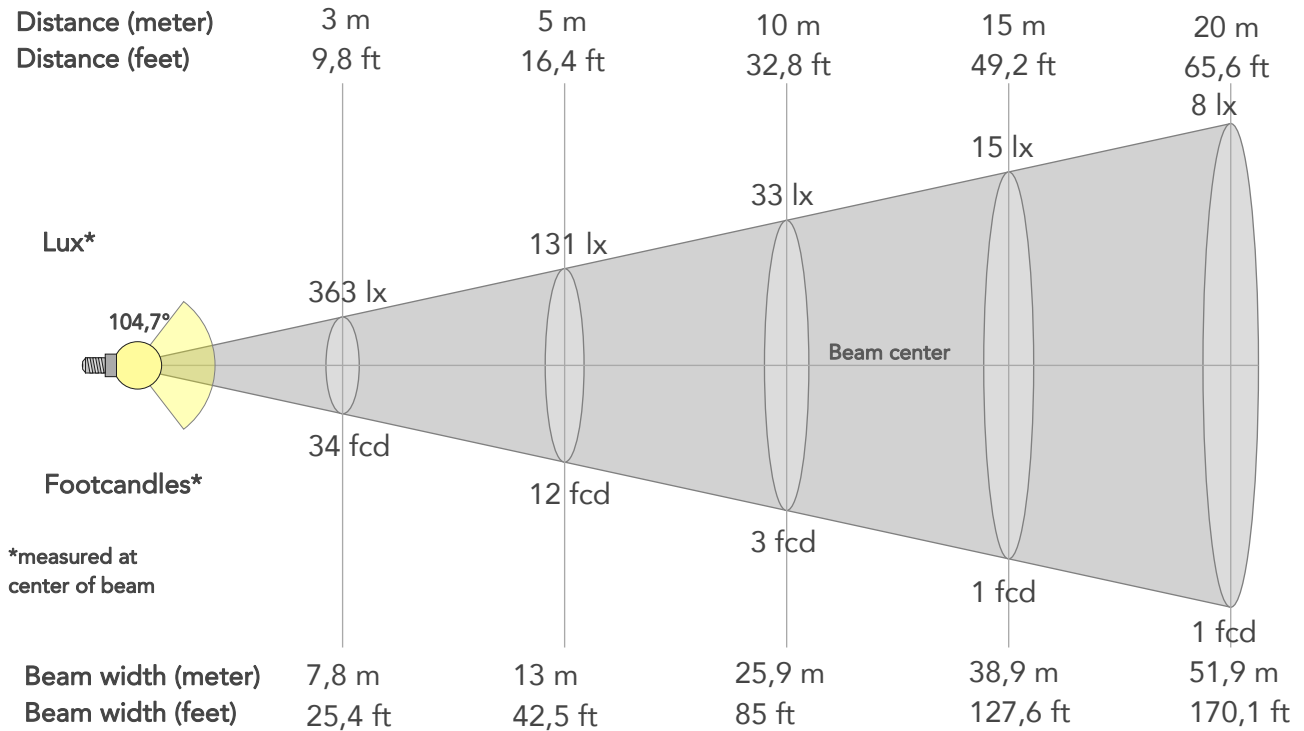
Spectra



# BEAM DETAILS



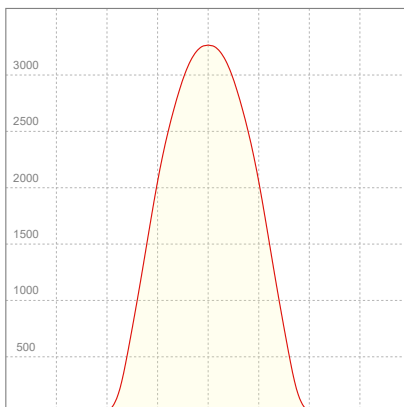
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
104,7°	151,8°	167,6°	83,7%	58,7%



## 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	3264lx	816lx	363lx	204lx	131lx	58lx	33lx	15lx	8lx	5lx	4lx	2lx	1lx
Footcand.	303fcd	76fcd	34fcd	19fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,6m	5,2m	7,8m	10,4m	13m	19,4m	25,9m	38,9m	51,9m	64,8m	77,8m	103,7m	129,6m
Beam wid.	8,6ft	17,1ft	25,4ft	34ft	42,5ft	63,8ft	85ft	127,6ft	170,1ft	212,6ft	255,1ft	340,2ft	425,2ft

## LINEAR DISTRIBUTION DIAGRAM

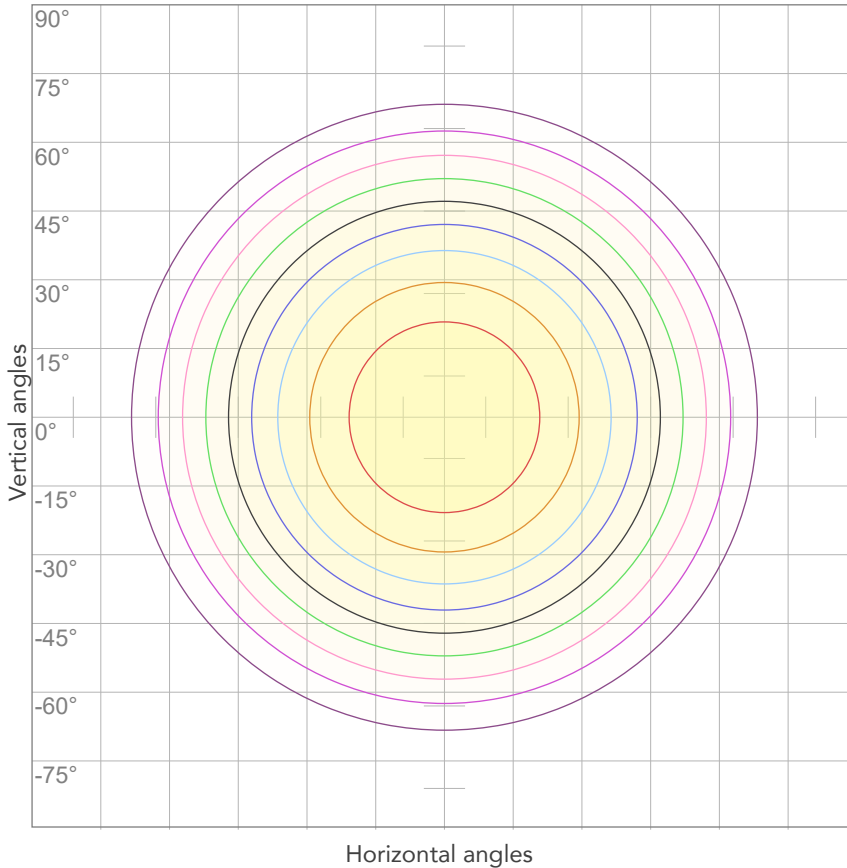


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	1,82A	376W	20lm/W



## ISO CANDELA DIAGRAM



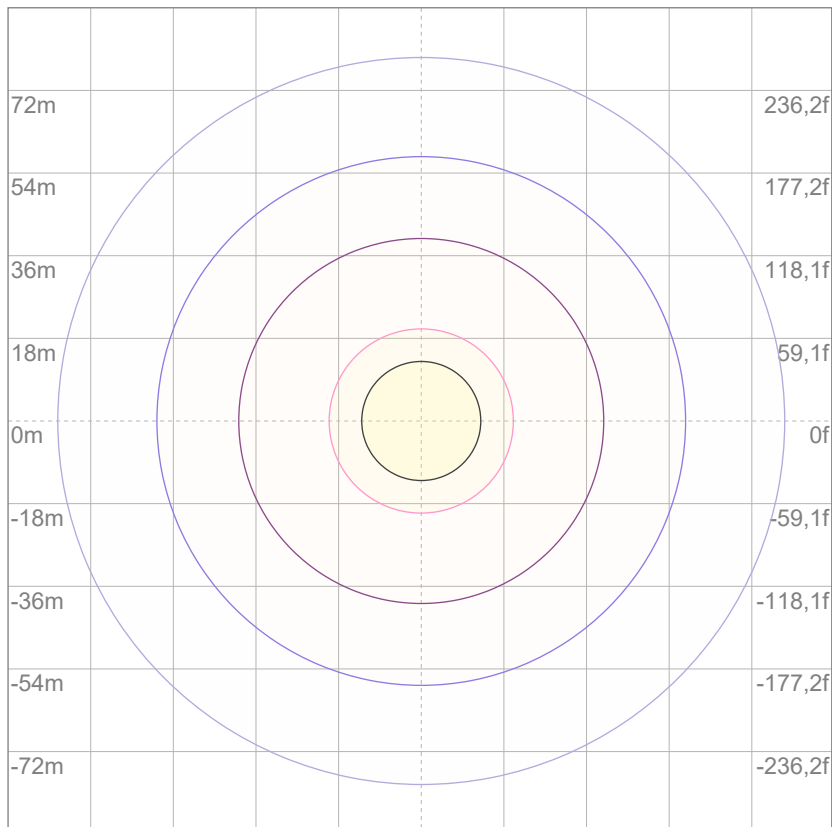
10%	326 cd
20%	653 cd
30%	979 cd
40%	1306 cd
50%	1632 cd
60%	1959 cd
70%	2285 cd
80%	2611 cd

Conditions:

Number of c-planes: 2

Candela at center: 3264 cd

## ISO LUX DIAGRAM



3%	0,979 lx
5%	1,63 lx
10%	3,26 lx
30%	9,79 lx
50%	16,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 32,6 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

6471 lm

Peak candela output:

4208 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter INT

Target:

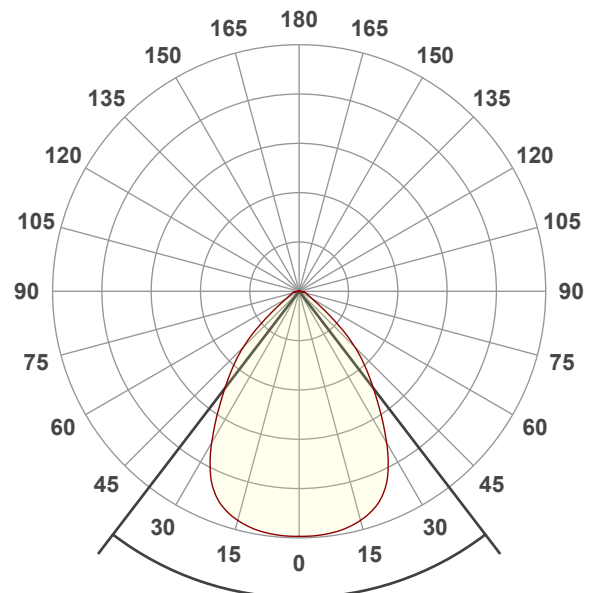
Blue

Operator:

Paolo Carvone

Date and time:

24/06/2022 09:08:17

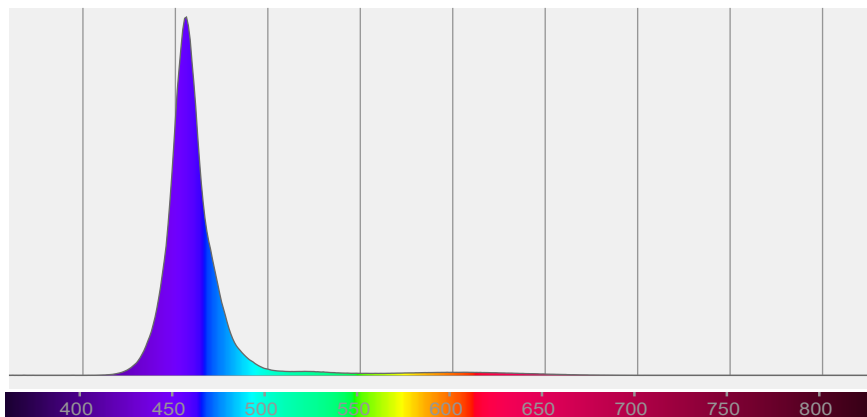


Beam angle 50%: 74,9°

Field angle 10%: 110,5°

Cut off angle 2.5%: 154,2°

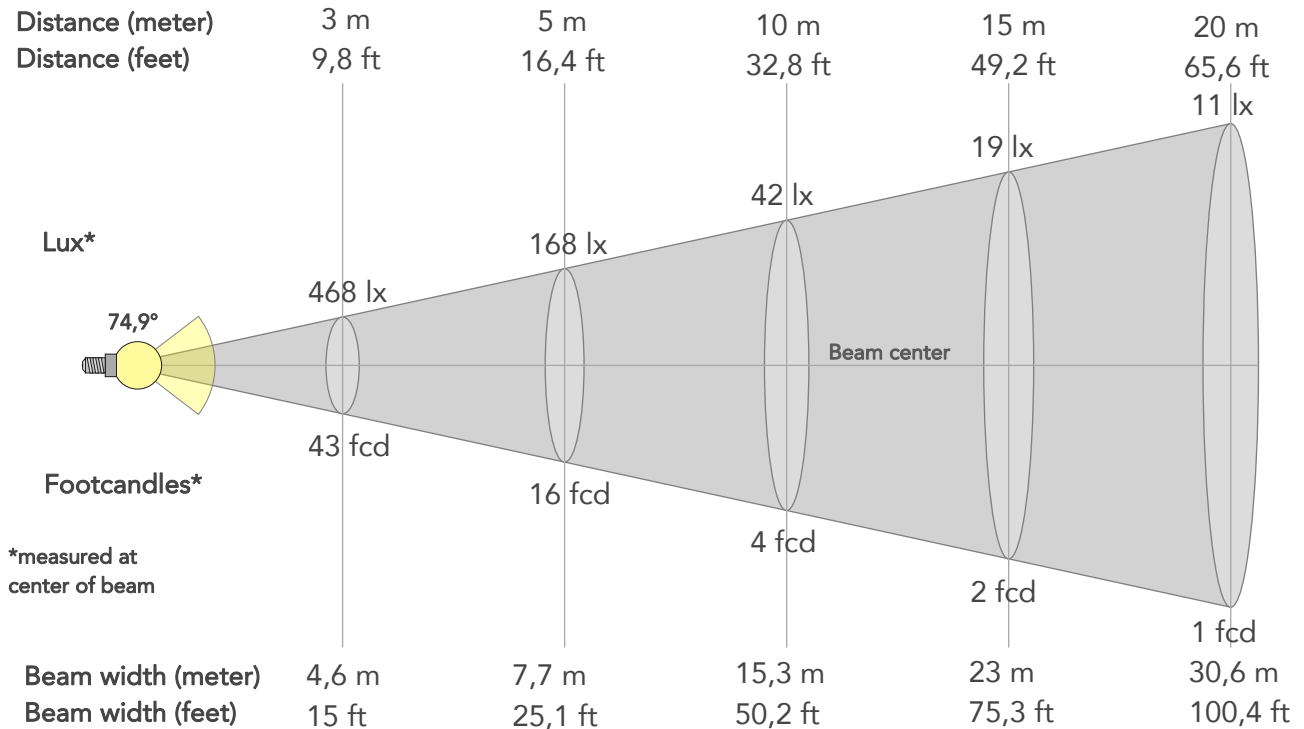
Spectra



# BEAM DETAILS



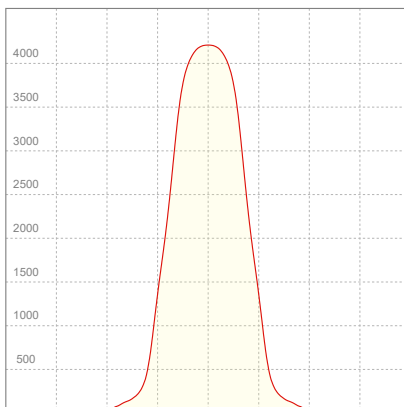
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,9°	110,5°	154,2°	94,3%	81,1%



## 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	4208lx	1052lx	468lx	263lx	168lx	75lx	42lx	19lx	11lx	7lx	5lx	3lx	2lx
Footcand.	391fcd	98fcd	43fcd	24fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3,1m	4,6m	6,1m	7,7m	11,5m	15,3m	23m	30,6m	38,3m	45,9m	61,2m	76,6m
Beam wid.	5,1ft	10,1ft	15ft	20,1ft	25,1ft	37,7ft	50,2ft	75,3ft	100,4ft	125,6ft	150,7ft	200,9ft	251,1ft

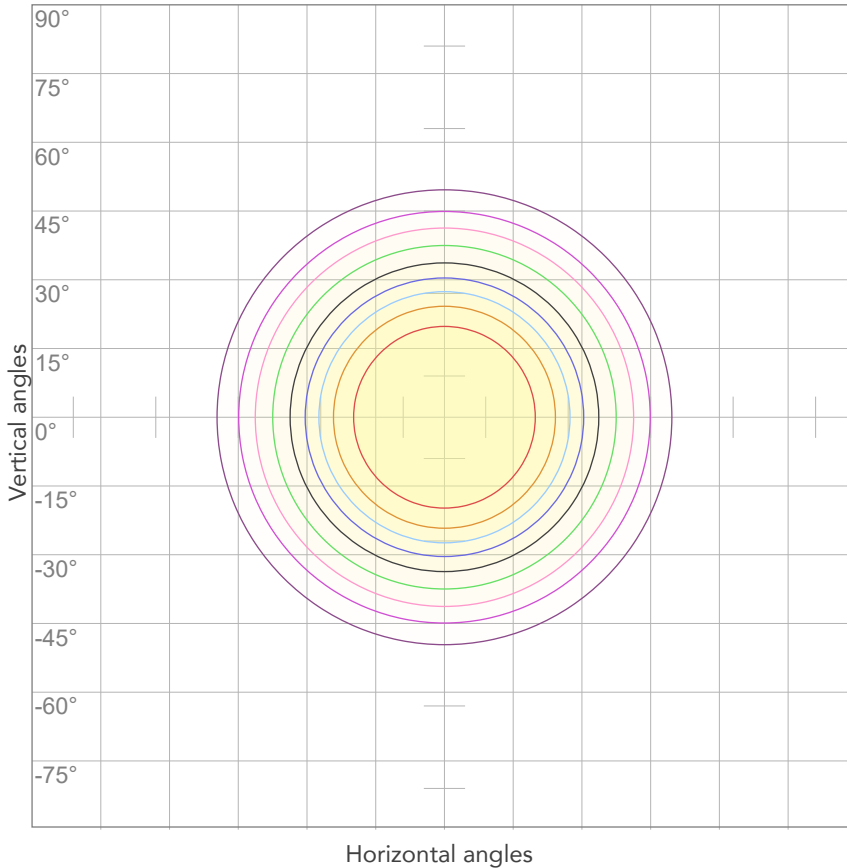
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	1.82	376W	20lm/W

## ISO CANDELA DIAGRAM



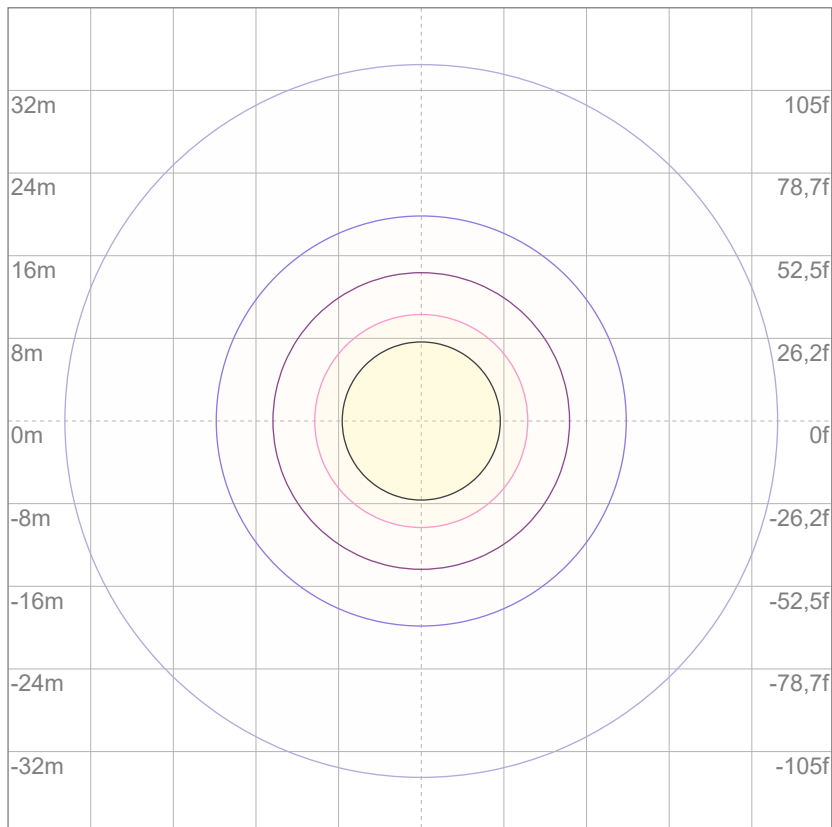
10%	421 cd
20%	842 cd
30%	1262 cd
40%	1683 cd
50%	2104 cd
60%	2525 cd
70%	2945 cd
80%	3366 cd

Conditions:

Number of c-planes: 2

Candela at center: 4208 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,26 lx
5%	2,10 lx
10%	4,21 lx
30%	12,6 lx
50%	21,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 42,1 lx

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



Total lumen output:

103120 lm

Peak candela output:

35238 cd

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASURAMENT CONDITIONS:**

Beam angle:

Filter HD

Target:

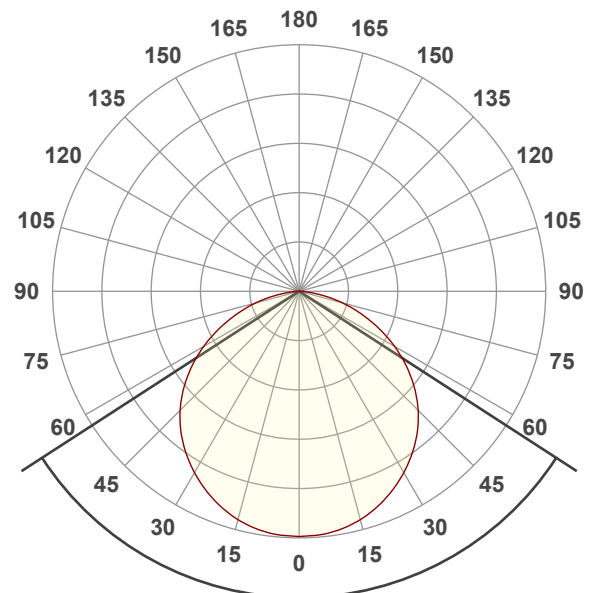
White

Operator:

Paolo Carvone

Date and time:

09/06/2022 12:22:19

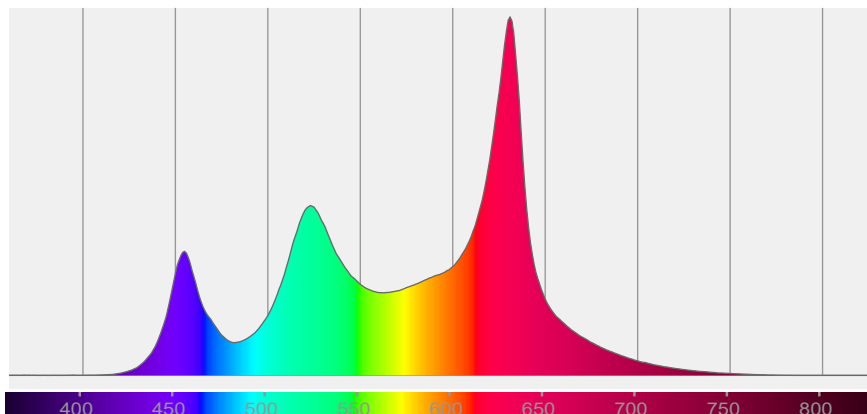


Beam angle 50%: 114,1°

Field angle 10%: 160°

Cut off angle 2.5%: 171,6°

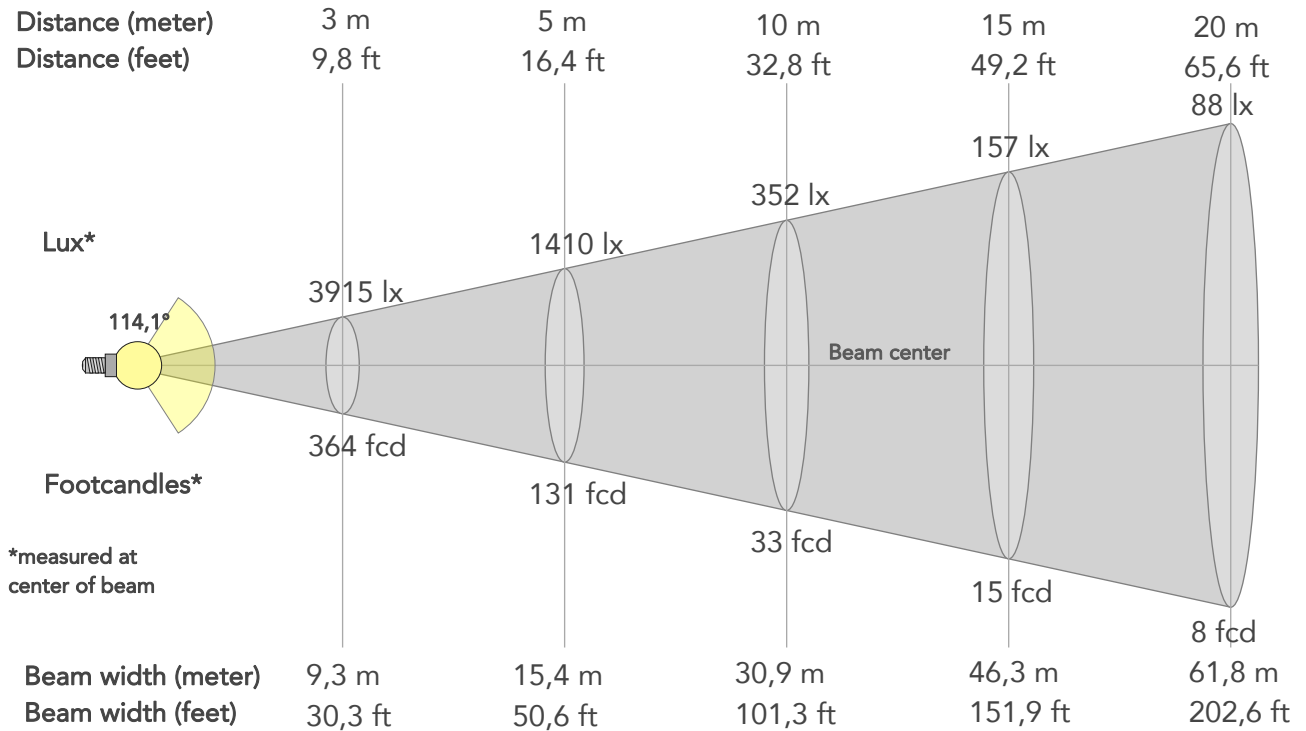
Spectra



# BEAM DETAILS



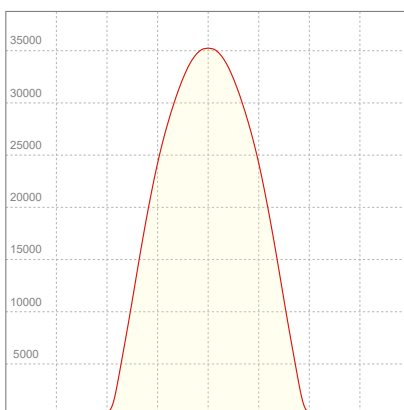
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,1°	160°	171,6°	78,2%	52,9%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	35238lx	8809lx	3915lx	2202lx	1410lx	626lx	352lx	157lx	88lx	56lx	39lx	22lx	14lx
Footcand.	3274fcd	818fcd	364fcd	205fcd	131fcd	58fcd	33fcd	15fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	3,1m	6,2m	9,3m	12,4m	15,4m	23,2m	30,9m	46,3m	61,8m	77,2m	92,6m	123,5m	154,4m
Beam wid.	10,2ft	20,4ft	30,3ft	40,5ft	50,6ft	76ft	101,3ft	151,9ft	202,6ft	253,2ft	303,8ft	405,1ft	506,4ft

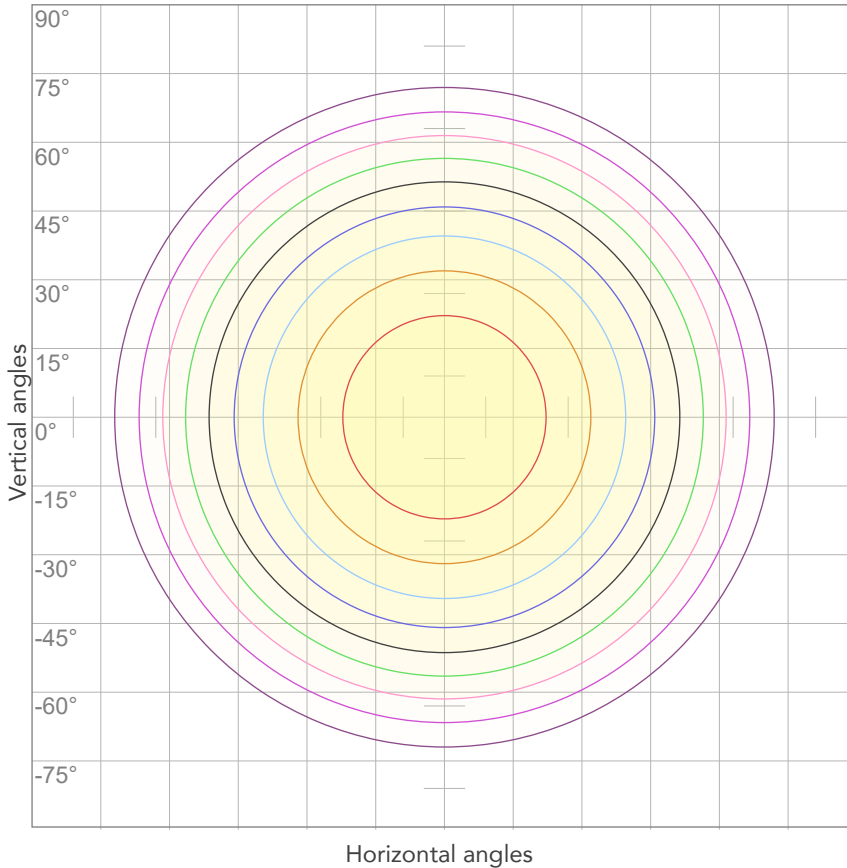
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,94A	1508W	68lm/W

## ISO CANDELA DIAGRAM



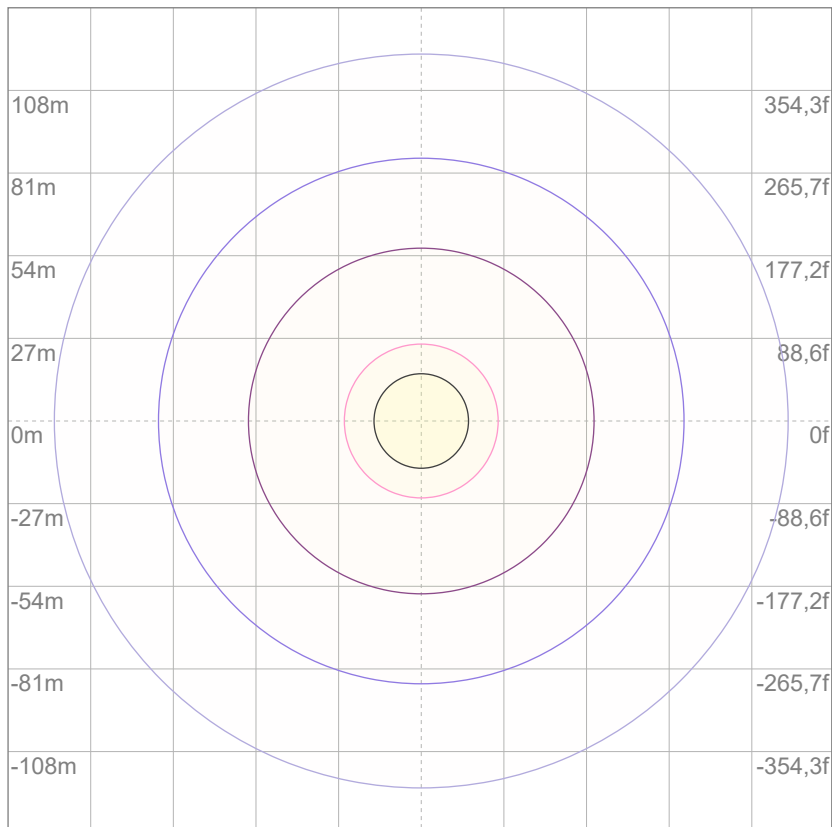
10%	3524 cd
20%	7048 cd
30%	10571 cd
40%	14095 cd
50%	17619 cd
60%	21143 cd
70%	24666 cd
80%	28190 cd

Conditions:

Number of c-planes: 2

Candela at center: 35238 cd

## ISO LUX DIAGRAM



3%	10,6 lx
5%	17,6 lx
10%	35,2 lx
30%	106 lx
50%	176 lx

Conditions:

Number of c-planes: 2

Lux at center: 352 lx

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



Total lumen output:

118831 lm

Peak candela output:

43495 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter MD

Target:

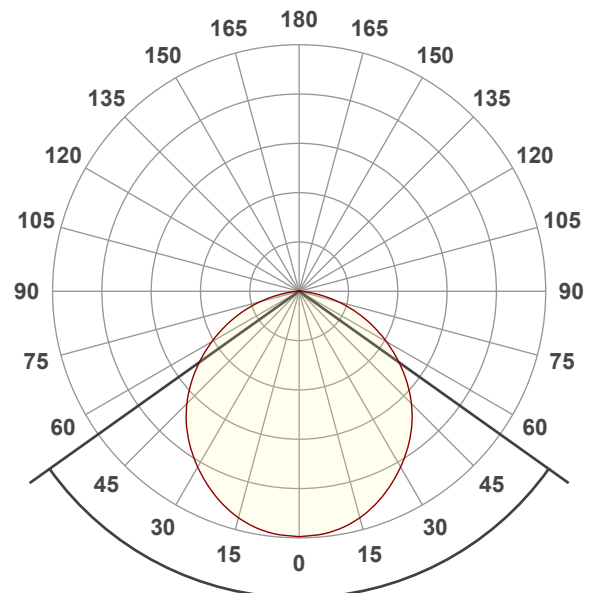
White

Operator:

Paolo Carvone

Date and time:

09/06/2022 11:02:00

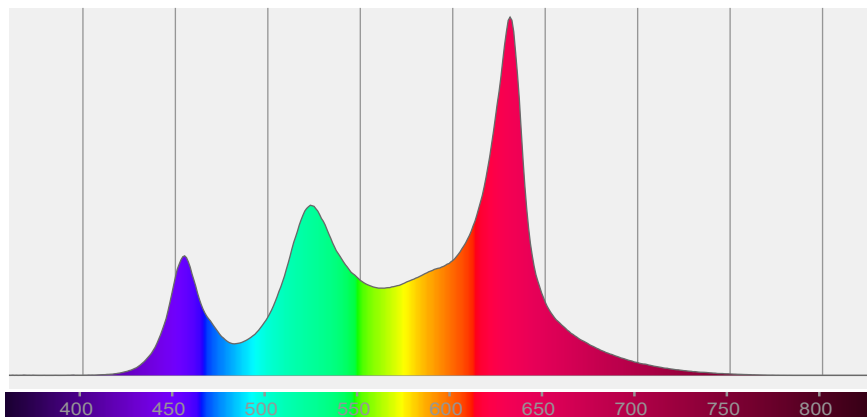


Beam angle 50%: 109,1°

Field angle 10%: 158,3°

Cut off angle 2.5%: 171,2°

Spectra

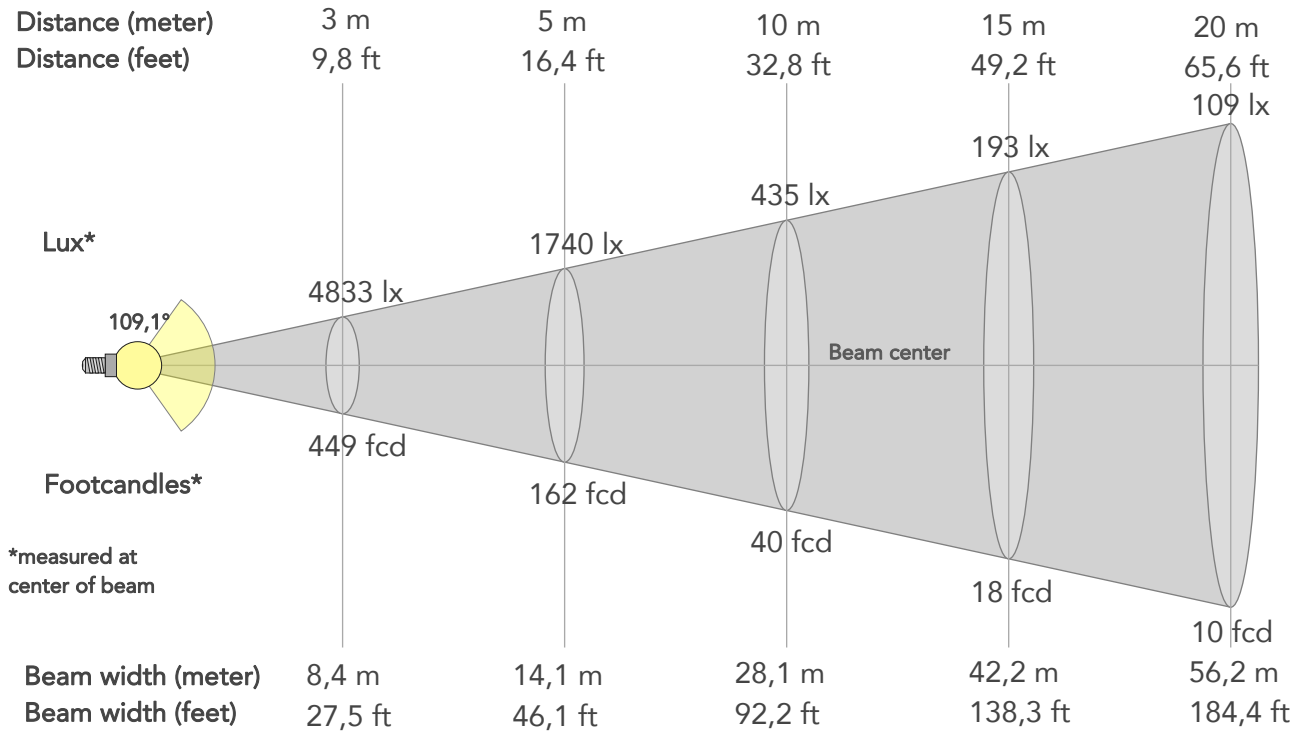




# BEAM DETAILS



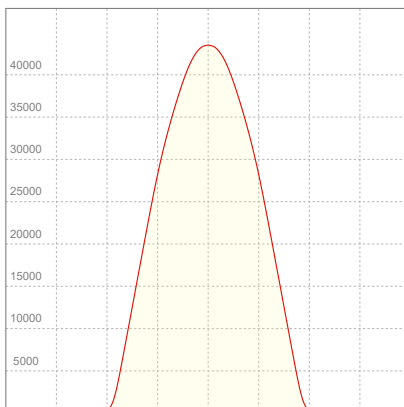
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
109,1°	158,3°	171,2°	80,2%	55,1%



## 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	43495lx	10874lx	4833lx	2718lx	1740lx	773lx	435lx	193lx	109lx	70lx	48lx	27lx	17lx
Footcand.	4041fcd	1010fcd	449fcd	253fcd	162fcd	72fcd	40fcd	18fcd	10fcd	6fcd	4fcd	3fcd	2fcd
Beam wid.	2,8m	5,6m	8,4m	11,2m	14,1m	21,1m	28,1m	42,2m	56,2m	70,3m	84,3m	112,4m	140,5m
Beam wid.	9,3ft	18,6ft	27,5ft	36,8ft	46,1ft	69,1ft	92,2ft	138,3ft	184,4ft	230,5ft	276,6ft	368,8ft	461ft

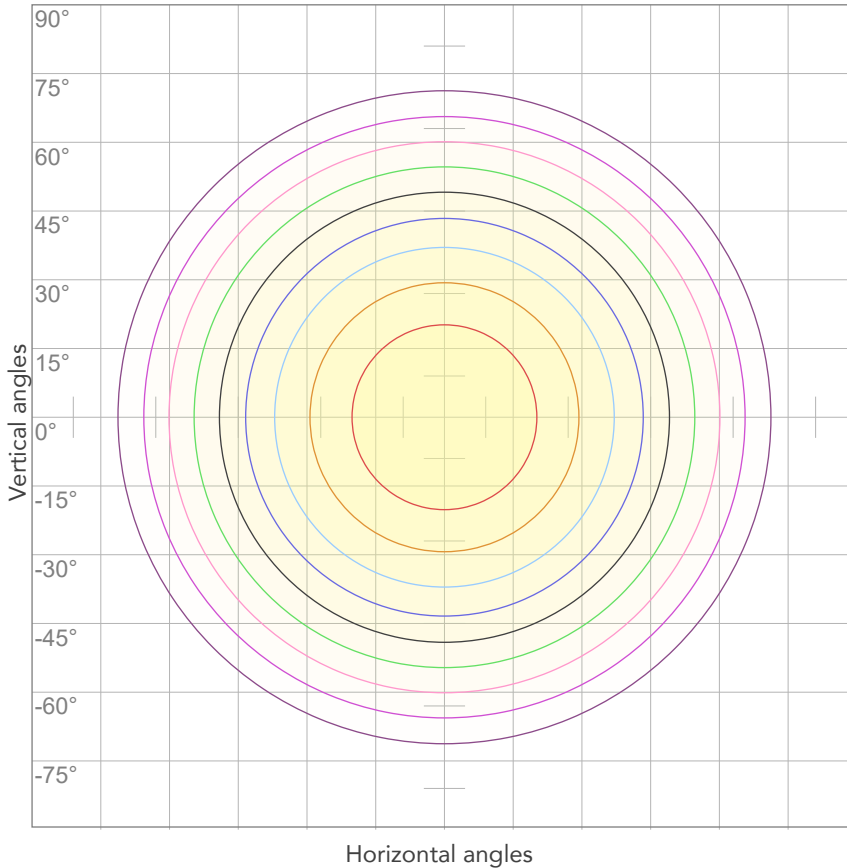
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,94	1508W	68lm/W

## ISO CANDELA DIAGRAM



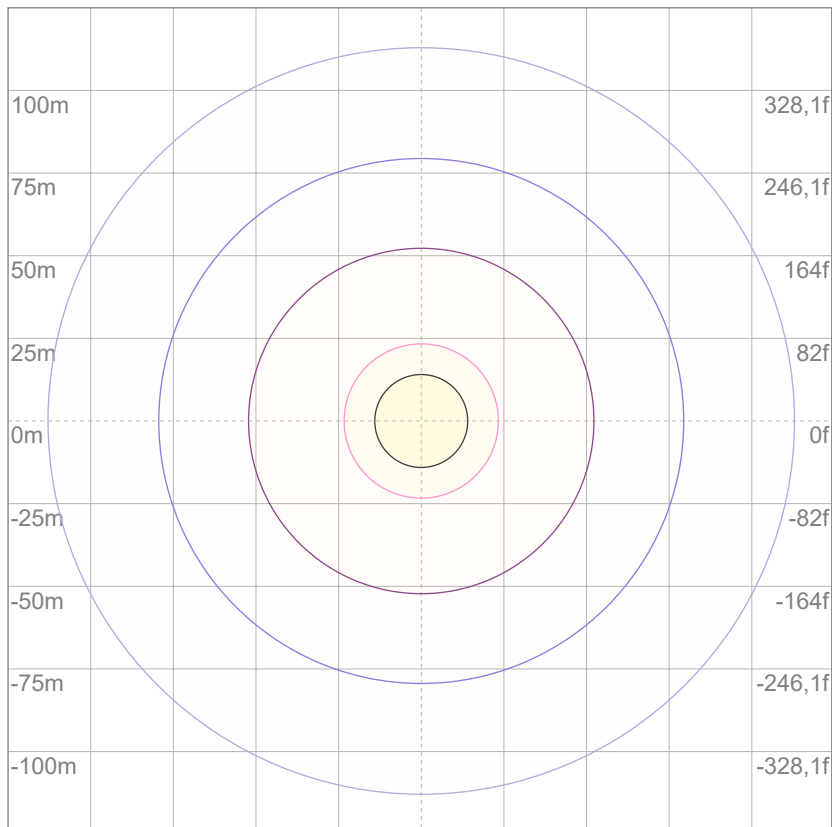
10%	4349 cd
20%	8699 cd
30%	13048 cd
40%	17398 cd
50%	21747 cd
60%	26097 cd
70%	30446 cd
80%	34796 cd

Conditions:

Number of c-planes: 2

Candela at center: 43495 cd

## ISO LUX DIAGRAM



3%	13,0 lx
5%	21,7 lx
10%	43,5 lx
30%	130 lx
50%	217 lx

Conditions:

Number of c-planes: 2

Lux at center: 435 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

127014 lm

Peak candela output:

46811 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter LD

Target:

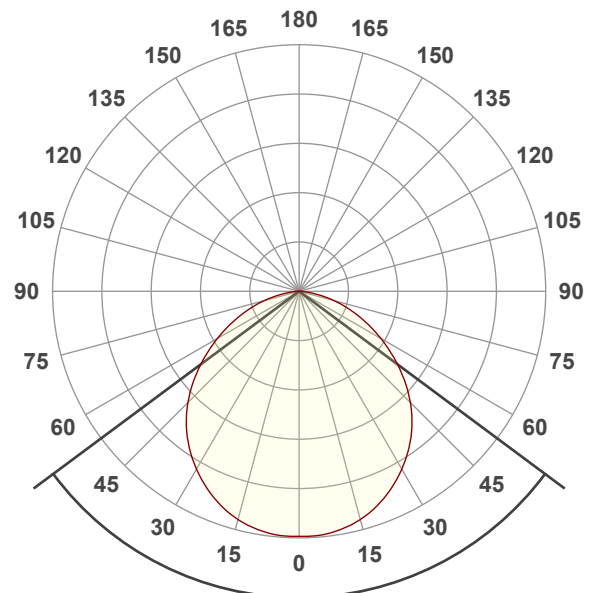
White

Operator:

Paolo Carvone

Date and time:

09/06/2022 11:40:39

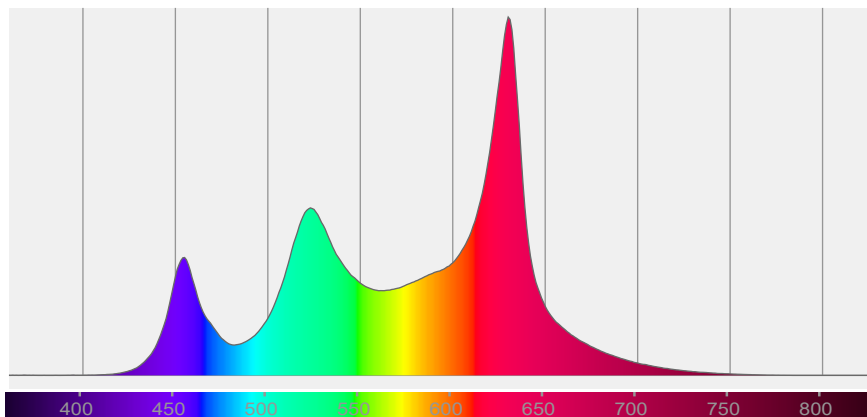


Beam angle 50%: 106,8°

Field angle 10%: 156,7°

Cut off angle 2.5%: 170,9°

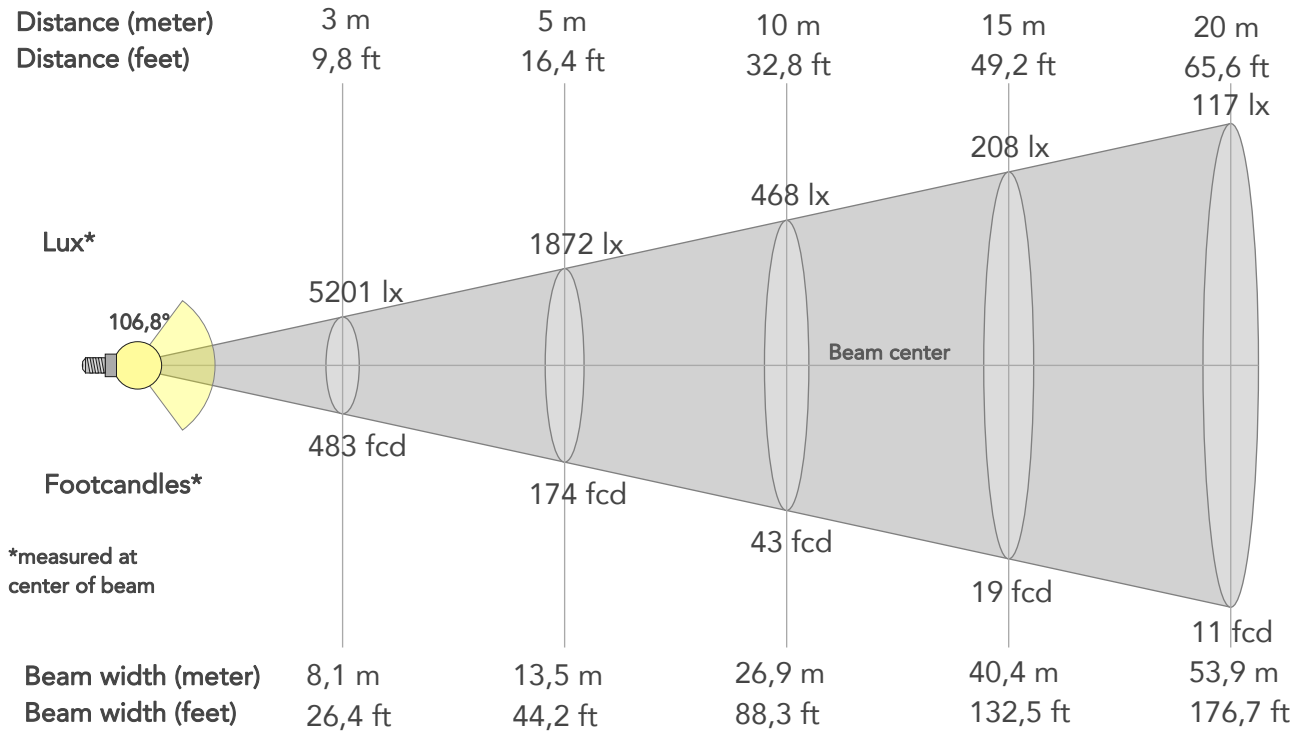
Spectra



# BEAM DETAILS



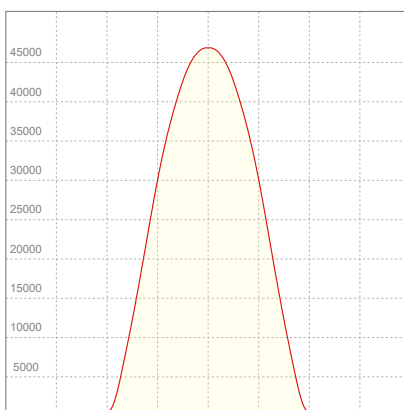
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
106,8°	156,7°	170,9°	80,3%	55,8%



## 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	46811lx	11703lx	5201lx	2926lx	1872lx	832lx	468lx	208lx	117lx	75lx	52lx	29lx	19lx
Footcand.	4349fcd	1087fcd	483fcd	272fcd	174fcd	77fcd	43fcd	19fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	2,7m	5,4m	8,1m	10,8m	13,5m	20,2m	26,9m	40,4m	53,9m	67,3m	80,8m	107,7m	134,7m
Beam wid.	8,9ft	17,8ft	26,4ft	35,3ft	44,2ft	66,2ft	88,3ft	132,5ft	176,7ft	220,8ft	265ft	353,3ft	441,7ft

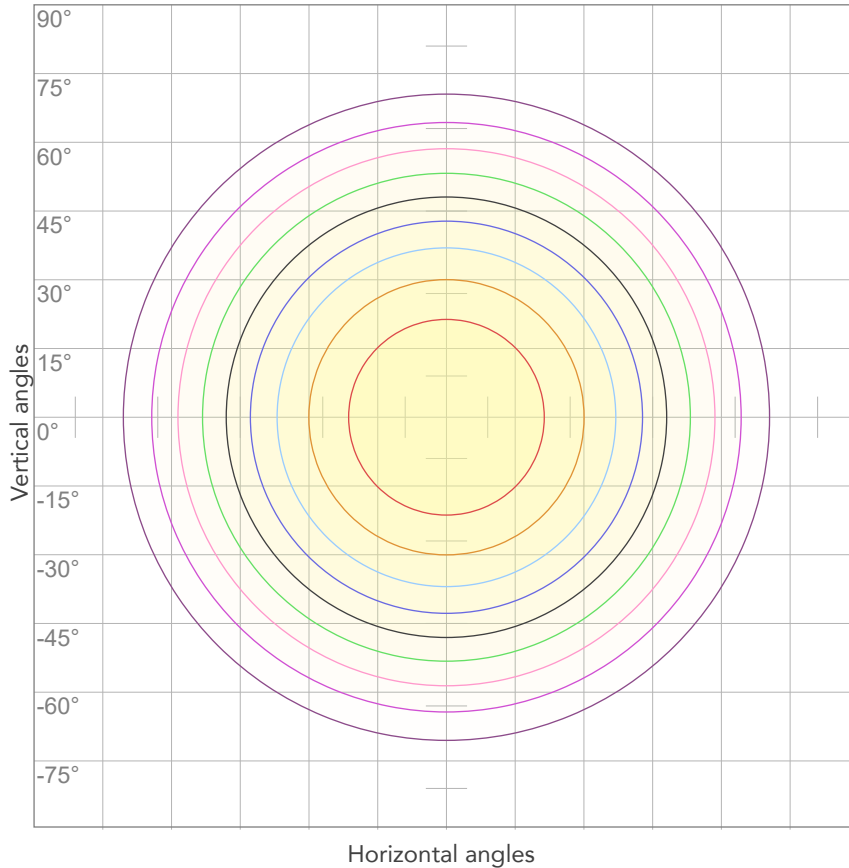
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,94A	1508W	68lm/W

## ISO CANDELA DIAGRAM



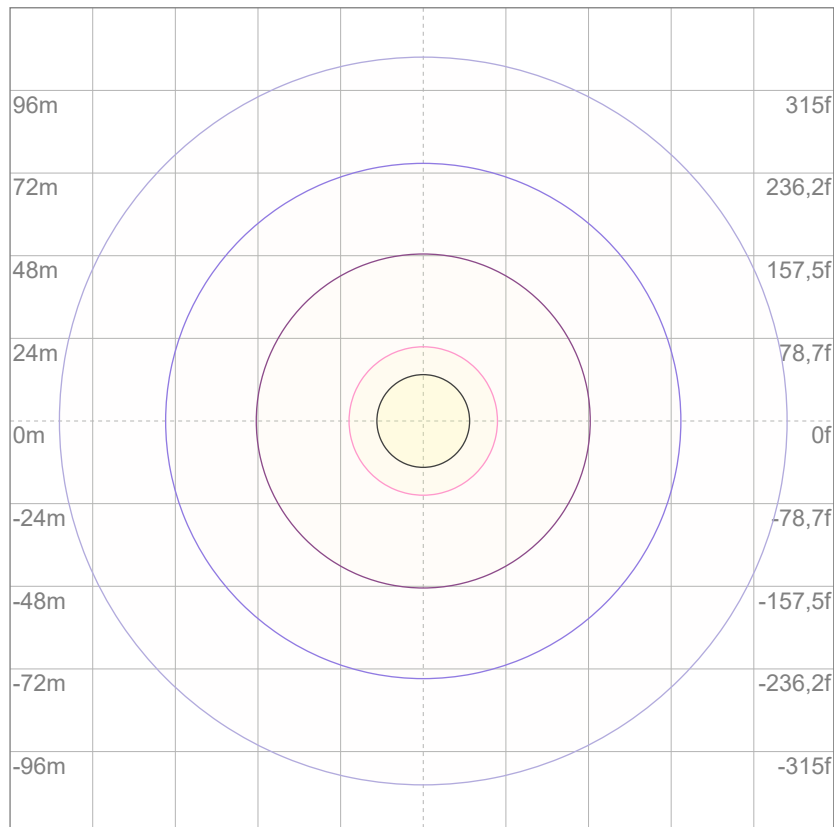
10%	4681 cd
20%	9362 cd
30%	14043 cd
40%	18724 cd
50%	23405 cd
60%	28086 cd
70%	32767 cd
80%	37448 cd

Conditions:

Number of c-planes: 2

Candela at center: 46811 cd

## ISO LUX DIAGRAM



3%	14,0 lx
5%	23,4 lx
10%	46,8 lx
30%	140 lx
50%	234 lx

Conditions:

Number of c-planes: 2

Lux at center: 468 lx

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



Total lumen output:

94524 lm

Peak candela output:

57676 cd

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter INT

Target:

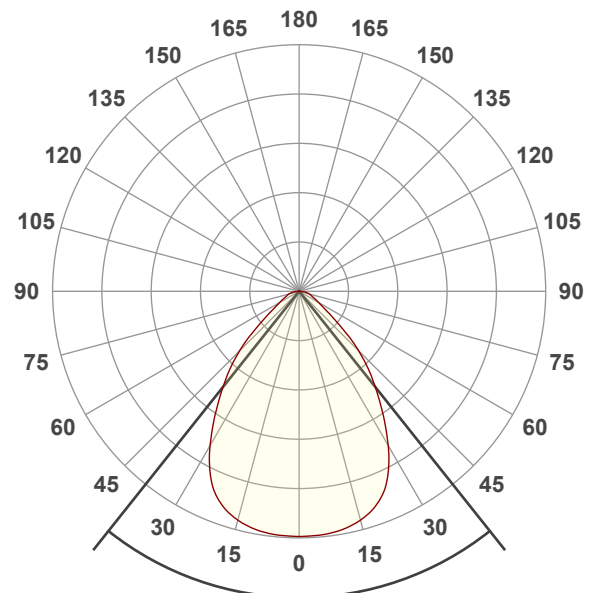
White

Operator:

Paolo Carvone

Date and time:

24/06/2022 09:10:21

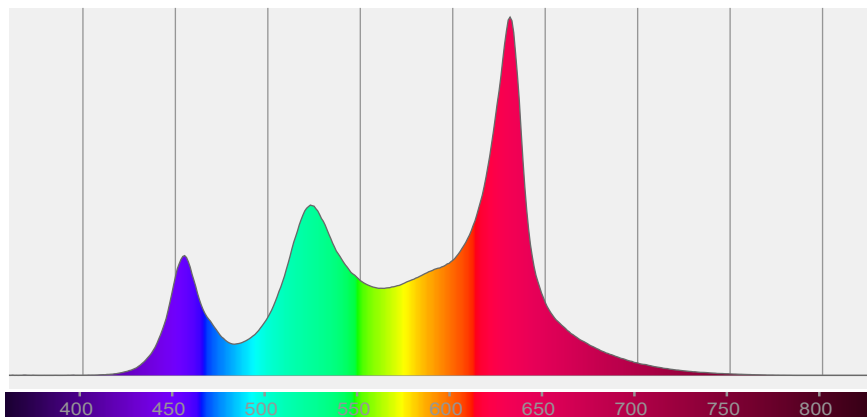


Beam angle 50%: 77°

Field angle 10%: 117,8°

Cut off angle 2.5%: 165,2°

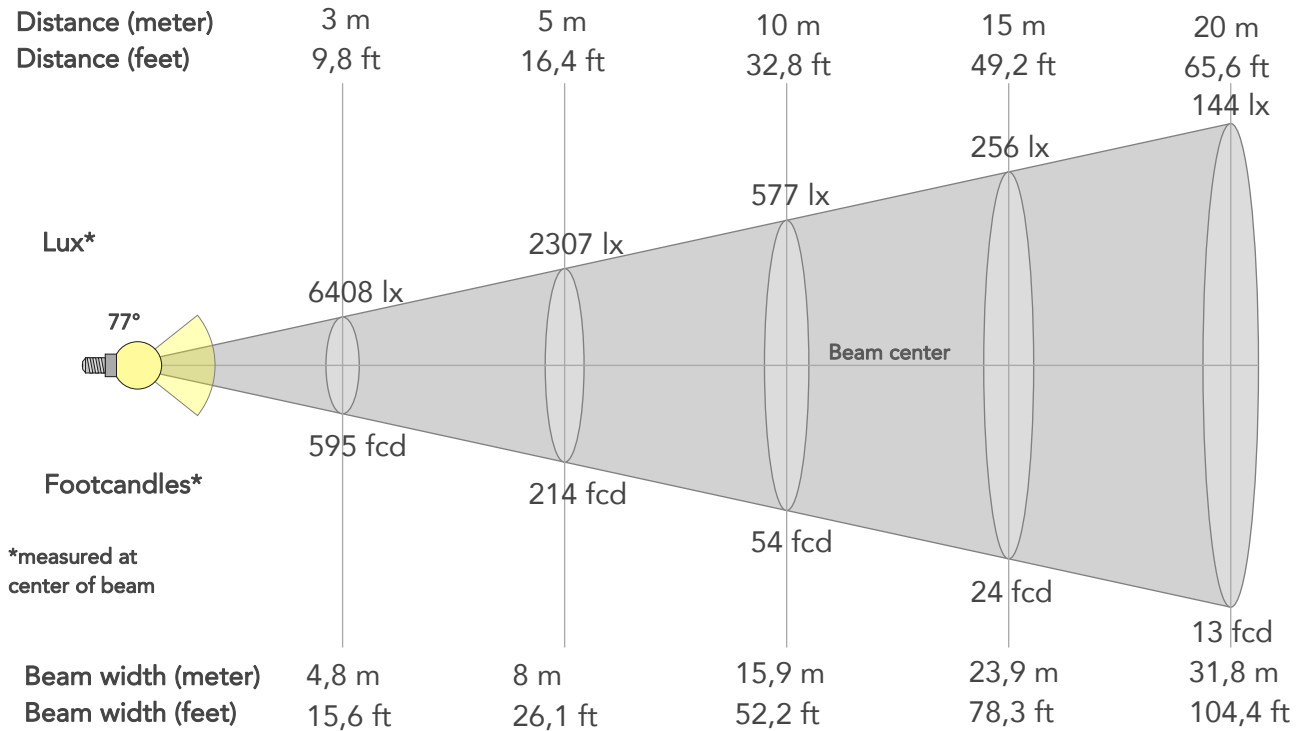
Spectra



# BEAM DETAILS



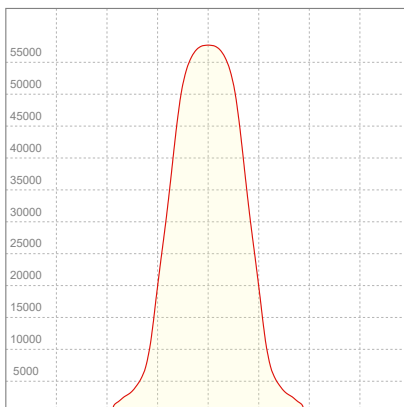
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
77°	117,8°	165,2°	92,1%	77,5%



## 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	57676lx	14419lx	6408lx	3605lx	2307lx	1025lx	577lx	256lx	144lx	92lx	64lx	36lx	23lx
Footcand.	5358fcd	1340fcd	595fcd	335fcd	214fcd	95fcd	54fcd	24fcd	13fcd	9fcd	6fcd	3fcd	2fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	8m	11,9m	15,9m	23,9m	31,8m	39,8m	47,7m	63,6m	79,6m
Beam wid.	5,3ft	10,5ft	15,6ft	20,8ft	26,1ft	39,1ft	52,2ft	78,3ft	104,4ft	130,5ft	156,6ft	208,8ft	260,9ft

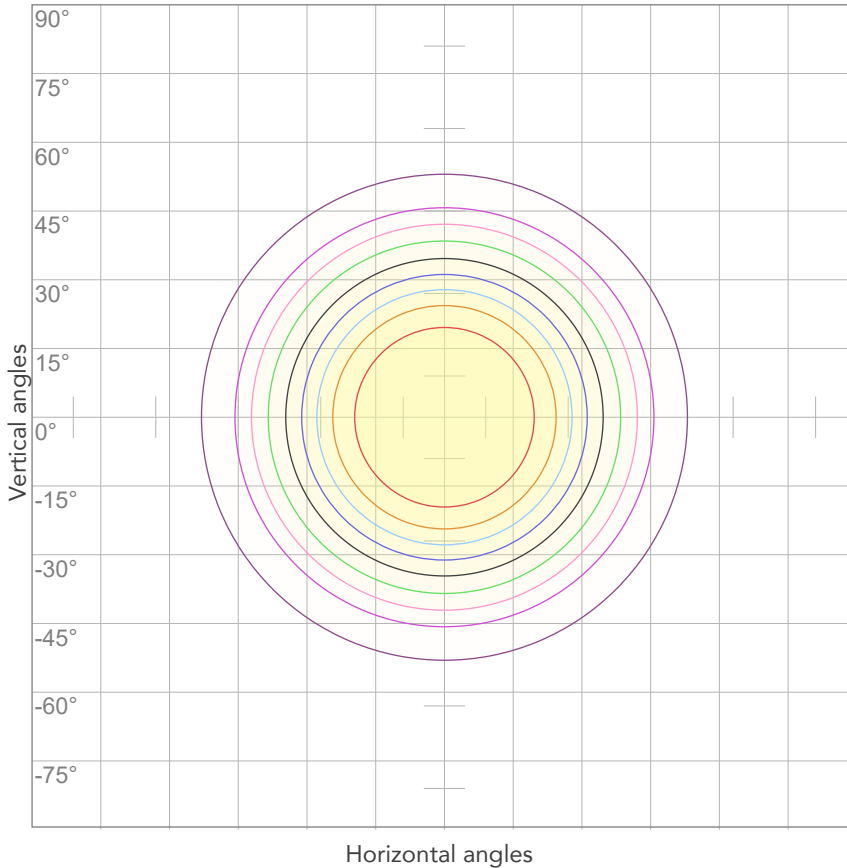
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6.94A	1508W	68lm/W

## ISO CANDELA DIAGRAM



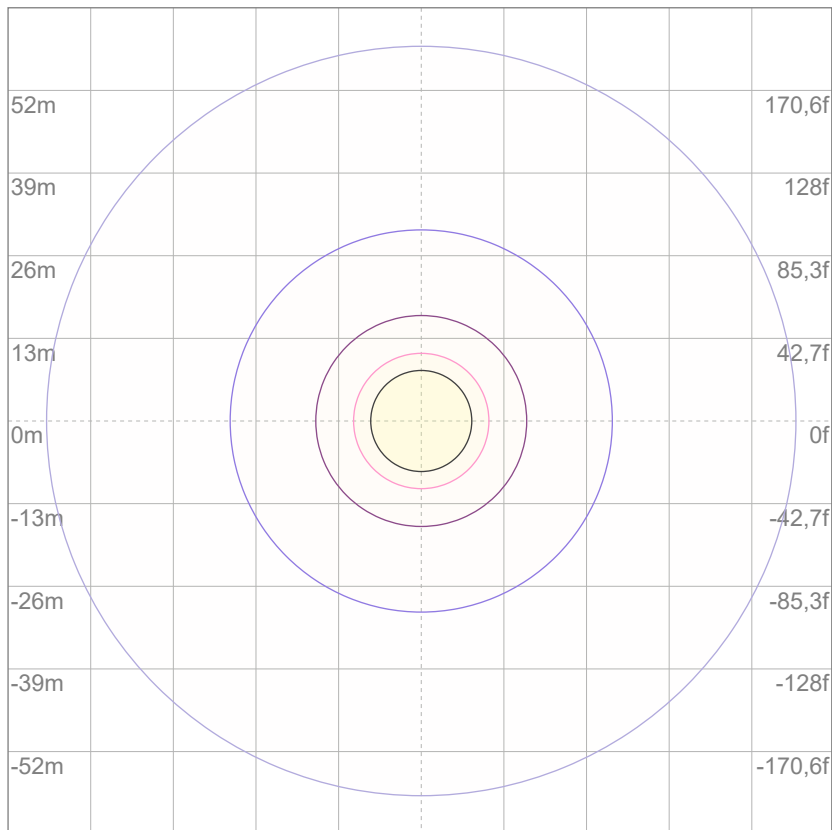
10%	5768 cd
20%	11535 cd
30%	17303 cd
40%	23070 cd
50%	28838 cd
60%	34606 cd
70%	40373 cd
80%	46141 cd

Conditions:

Number of c-planes: 2

Candela at center: 57676 cd

## ISO LUX DIAGRAM



3%	17,3 lx
5%	28,8 lx
10%	57,7 lx
30%	173 lx
50%	288 lx

Conditions:

Number of c-planes: 2

Lux at center: 577 lx

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





Total lumen output:

106502 lm

Peak candela output:

36928 cd

Light quality:

CRI: 88,0

Color temperature:

2885 K

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter HD

Target:

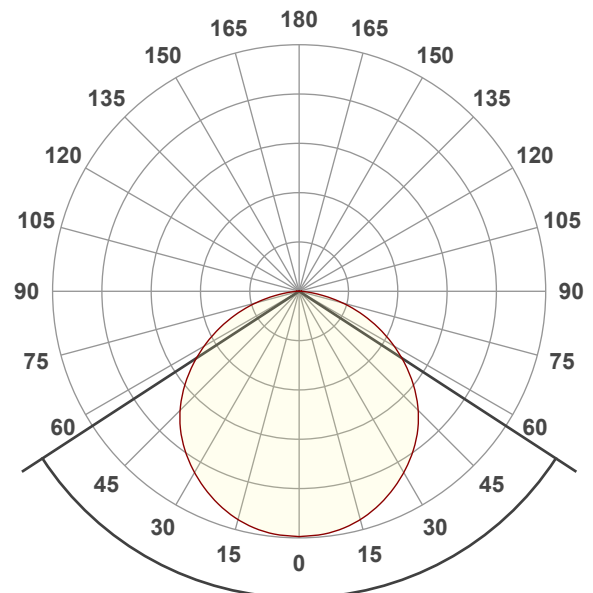
2800K

Operator:

Paolo Carvone

Date and time:

09/06/2022 12:24:49

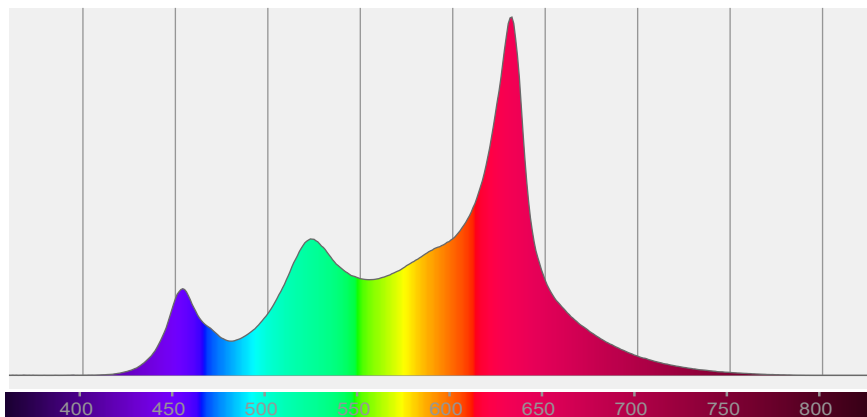


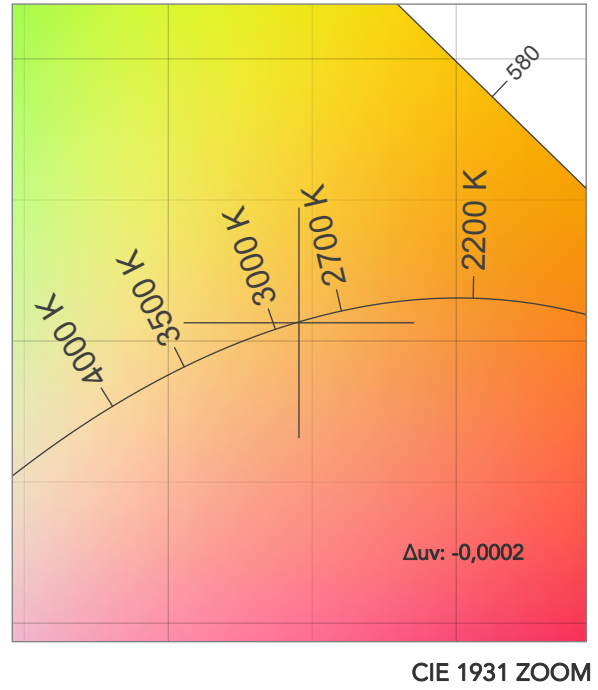
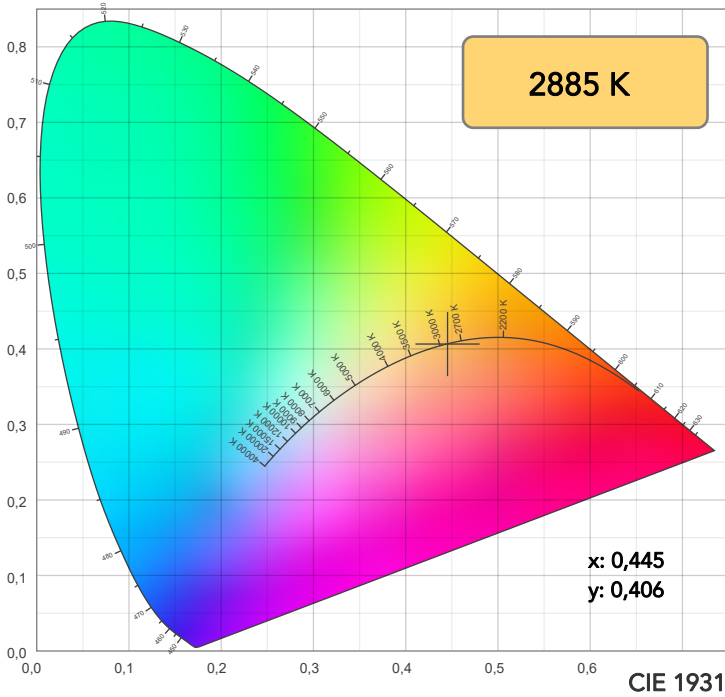
Beam angle 50%: 113,9°

Field angle 10%: 159,7°

Cut off angle 2.5%: 172,5°

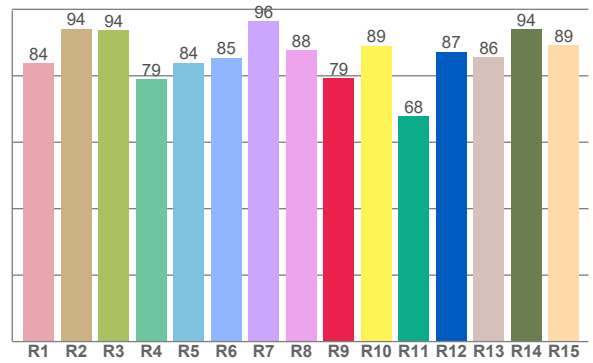
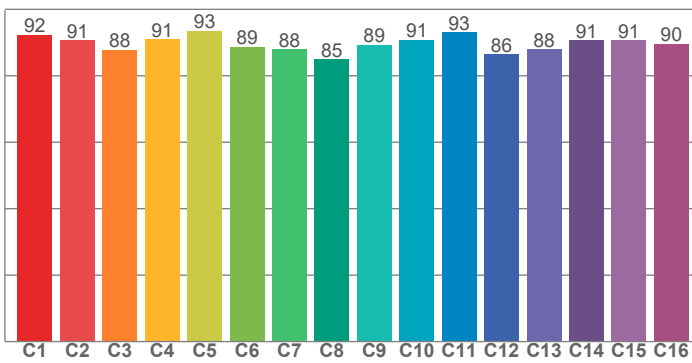
Spectra





TM30: 90,2

CRI: 88,0 (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
83,7	94,2	93,7	78,9	84,0	85,4	96,3	87,8	79,2	89,0	67,8	87,2	85,6	94,0	89,2

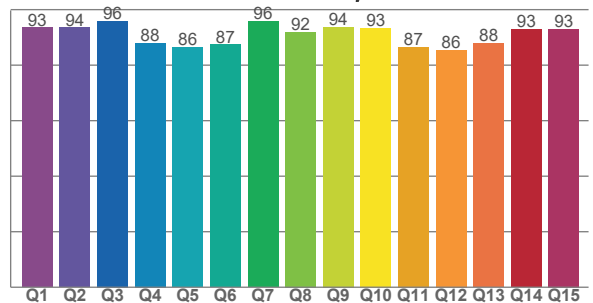
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,2	90,6	87,9	91,0	93,5	88,7	88,0	85,0	89,4	90,8	93,1	86,5	87,9	90,6	90,7	89,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,5	93,5	95,9	87,9	86,4	87,4	95,8	91,9	93,8	93,3	86,6	85,5	87,9	92,9	93,0

CQS: 90,2



COLOR PARAMETERS

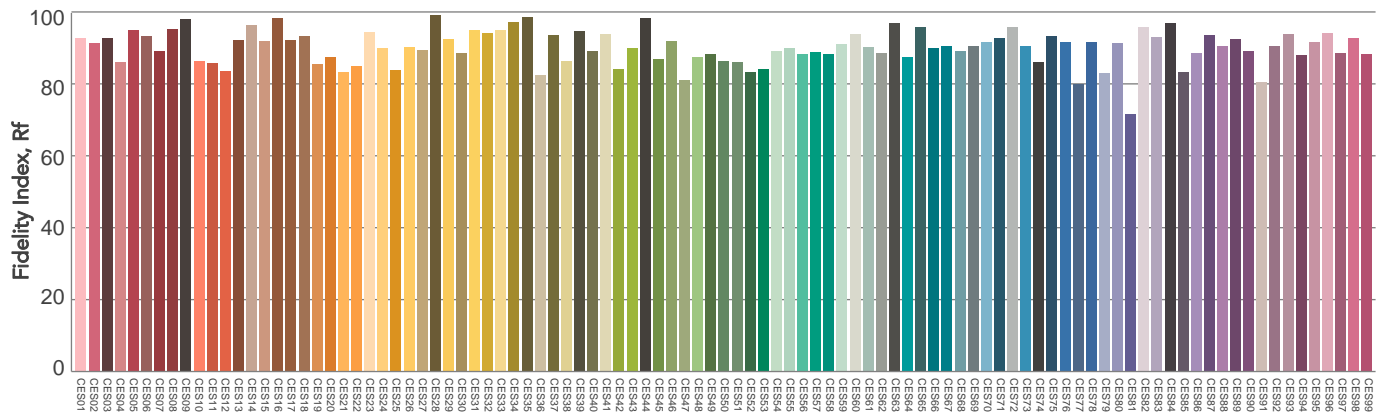
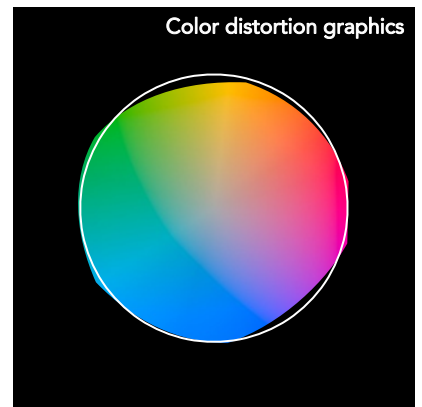
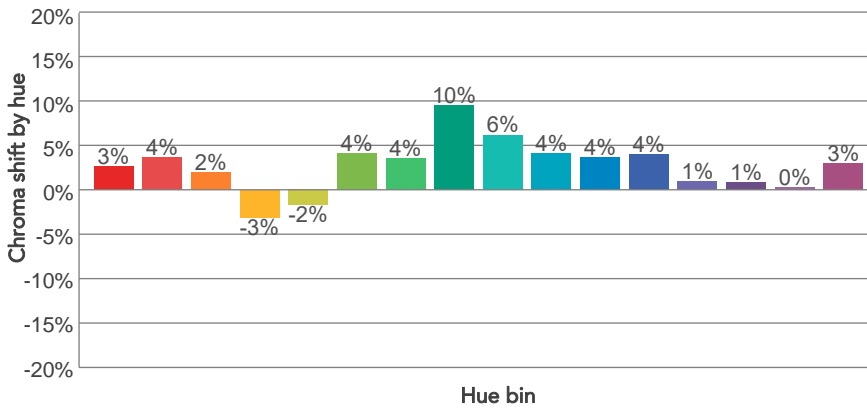
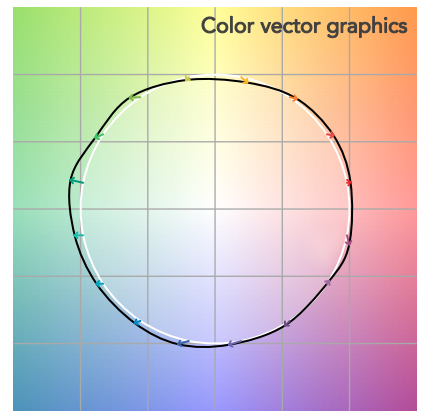
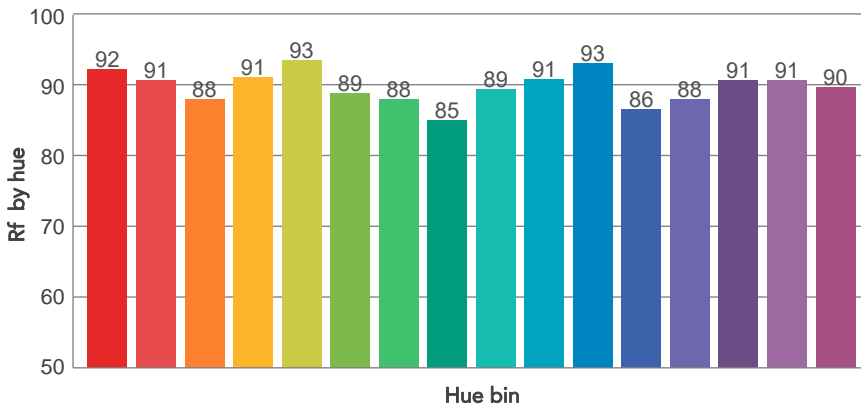
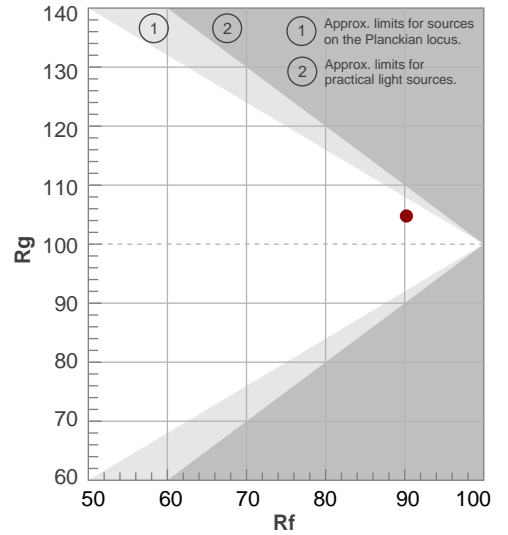
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2885 K	88,0	79,2	90,2	104,8	90,2	81	0,445	0,406	-0,0002

# TM30 DETAILS

**Rf 90,2**  
Fidelity index Rf

**Rg 104,8**  
Gammut index

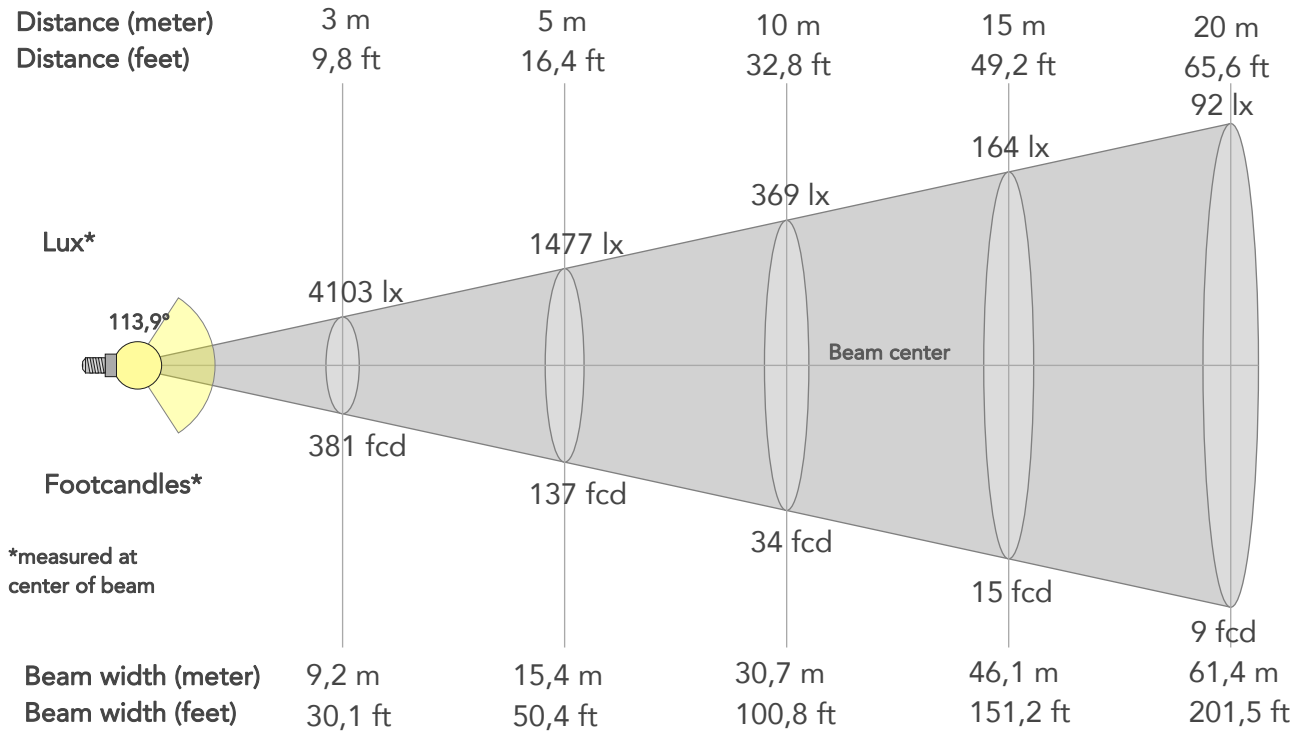
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	3%	0%
2	91	4%	-3%
3	88	2%	-5%
4	91	-3%	-5%
5	93	-2%	3%
6	89	4%	7%
7	88	4%	5%
8	85	10%	0%
9	89	6%	-1%
10	91	4%	-3%
11	93	4%	-3%
12	86	4%	-7%
13	88	1%	-10%
14	91	1%	-5%
15	91	0%	3%
16	90	3%	-6%



# BEAM DETAILS



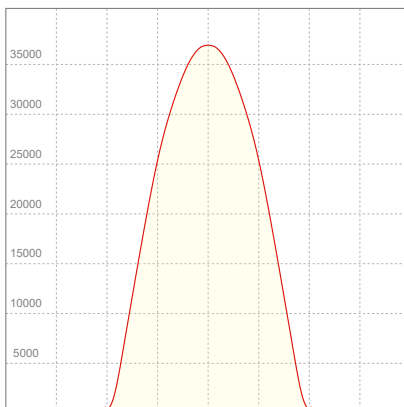
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
113,9°	159,7°	172,5°	79,3%	53,7%



## 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	36928lx	9232lx	4103lx	2308lx	1477lx	657lx	369lx	164lx	92lx	59lx	41lx	23lx	15lx
Footcand.	3431fcd	858fcd	381fcd	214fcd	137fcd	61fcd	34fcd	15fcd	9fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	3,1m	6,1m	9,2m	12,3m	15,4m	23m	30,7m	46,1m	61,4m	76,8m	92,2m	122,9m	153,6m
Beam wid.	10,1ft	20,3ft	30,1ft	40,2ft	50,4ft	75,6ft	100,8ft	151,2ft	201,5ft	251,9ft	302,3ft	403,1ft	503,9ft

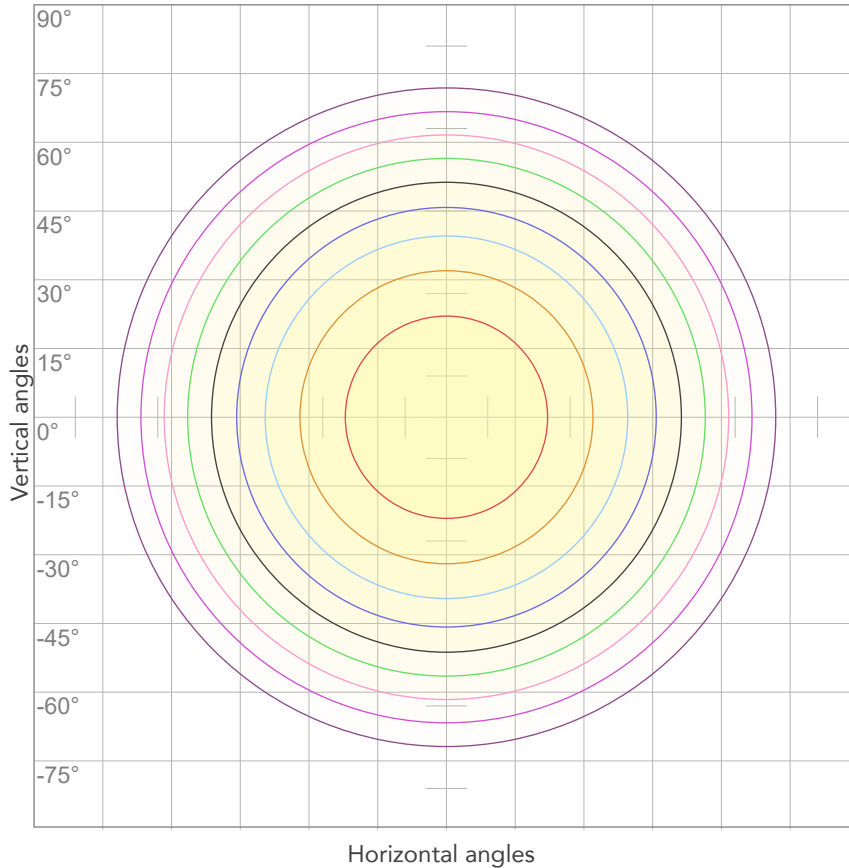
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	7,02A	1516W	70lm/W

## ISO CANDELA DIAGRAM



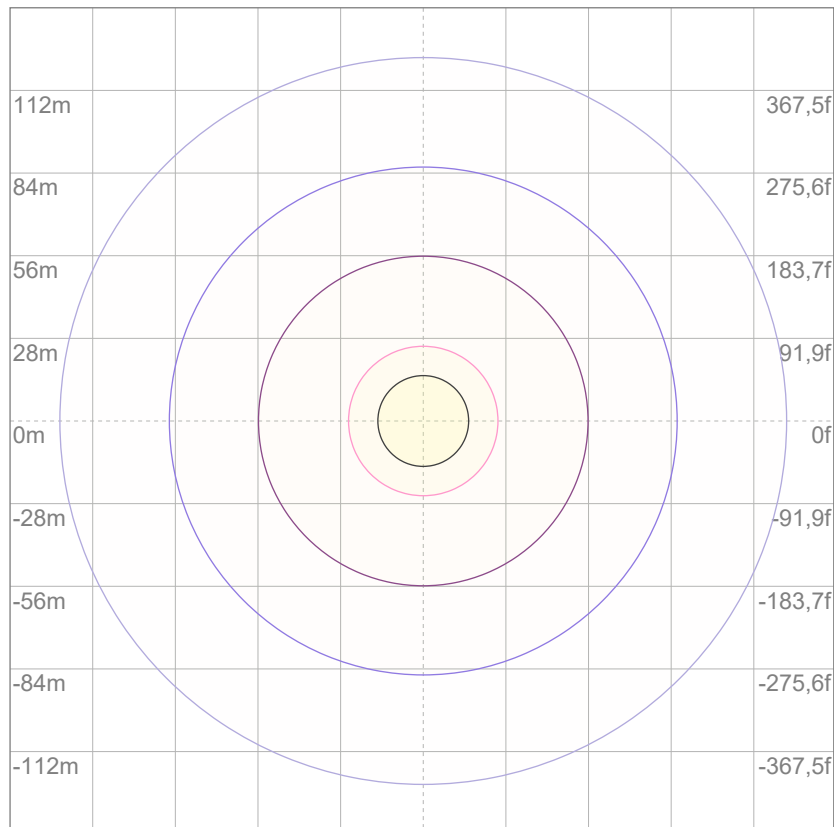
10%	3693 cd
20%	7386 cd
30%	11079 cd
40%	14771 cd
50%	18464 cd
60%	22157 cd
70%	25850 cd
80%	29543 cd

Conditions:

Number of c-planes: 2

Candela at center: 36928 cd

## ISO LUX DIAGRAM



3%	11,1 lx
5%	18,5 lx
10%	36,9 lx
30%	111 lx
50%	185 lx

Conditions:

Number of c-planes: 2

Lux at center: 369 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

125973 lm

Peak candela output:

46074 cd

Light quality:

CRI: 90,9

Color temperature:

2853 K

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter MD

Target:

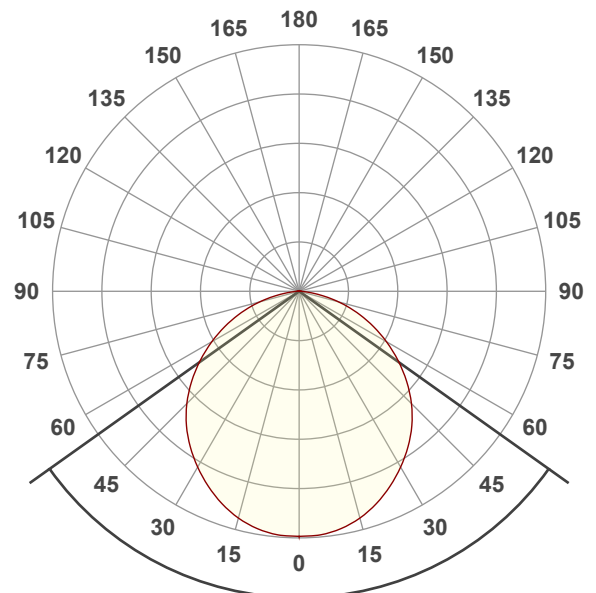
2800K

Operator:

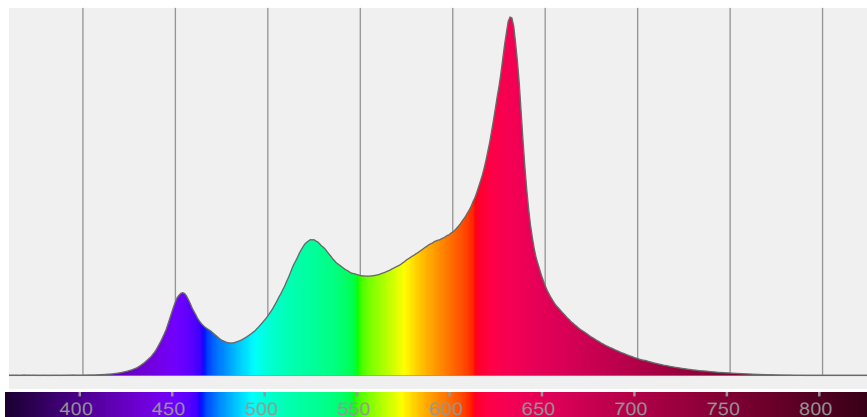
Paolo Carvone

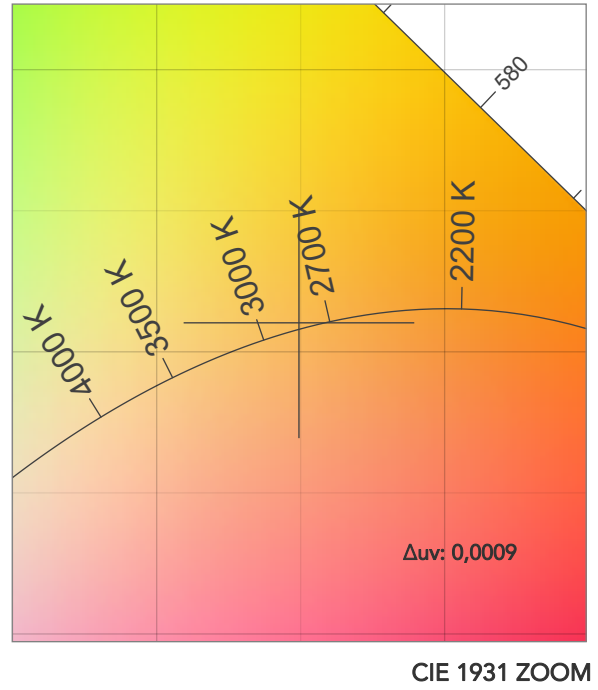
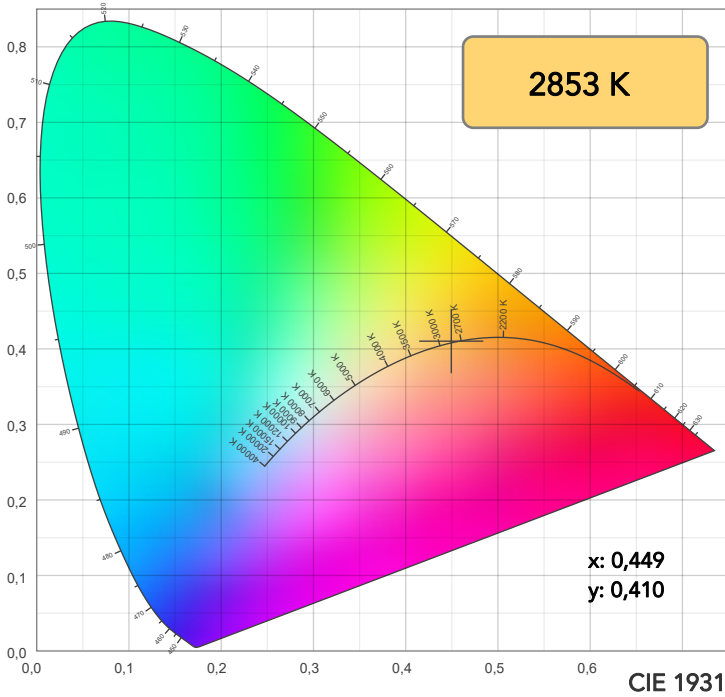
Date and time:

09/06/2022 11:04:19

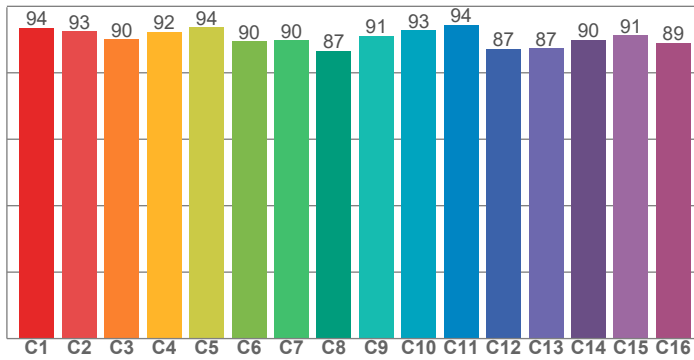


Spectra

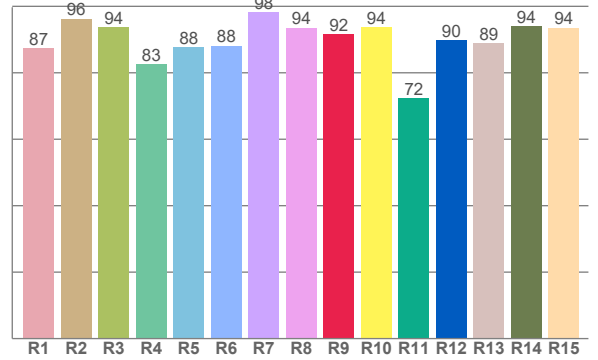




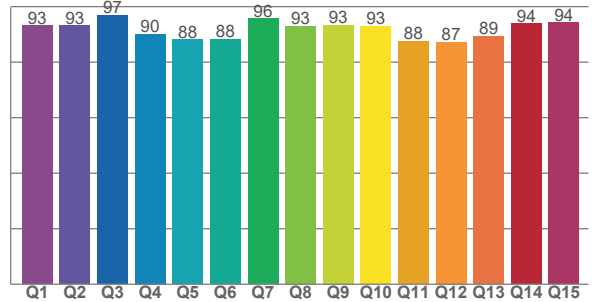
TM30: 91,3



CRI: 90,9 (R1-R8)



CQS: 91,1



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
87,4	96,2	93,7	82,6	87,8	88,2	98,2	93,5	91,5	93,7	72,4	89,8	89,0	94,1	93,6

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
93,5	92,5	90,0	92,3	93,7	89,5	89,8	86,6	91,2	92,8	94,4	87,2	87,4	90,0	91,3	89,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,2	93,2	96,9	90,1	88,1	88,3	95,7	93,0	93,4	92,9	87,5	87,2	89,3	93,8	94,2

COLOR PARAMETERS

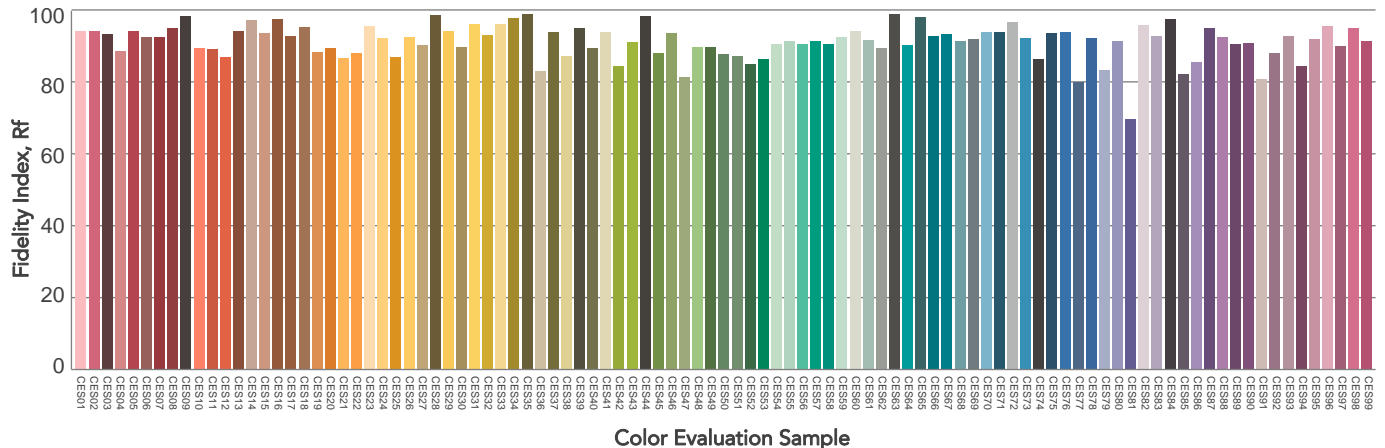
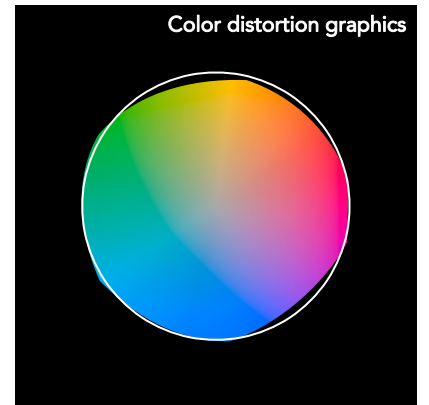
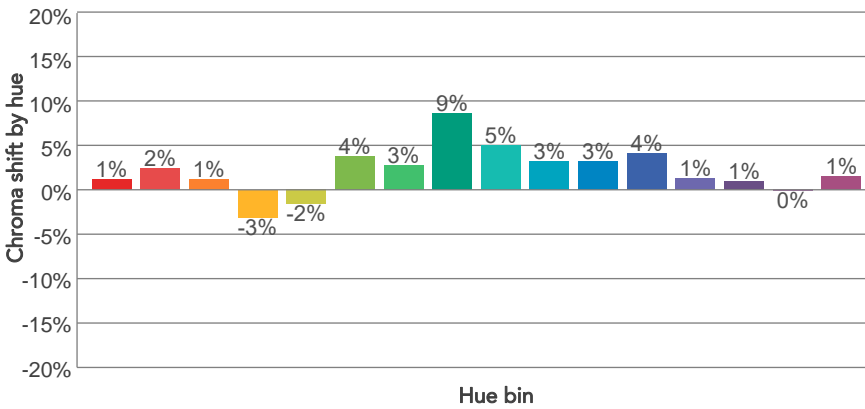
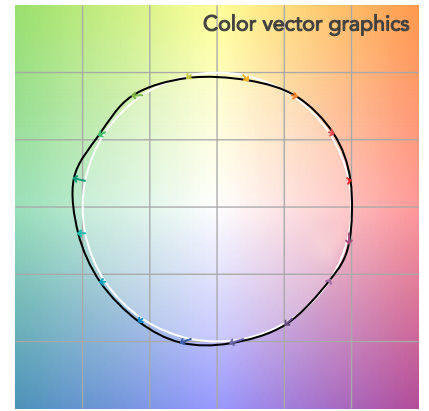
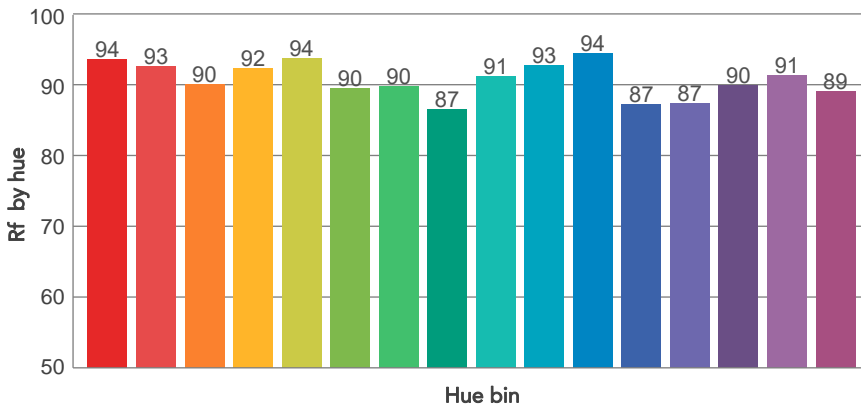
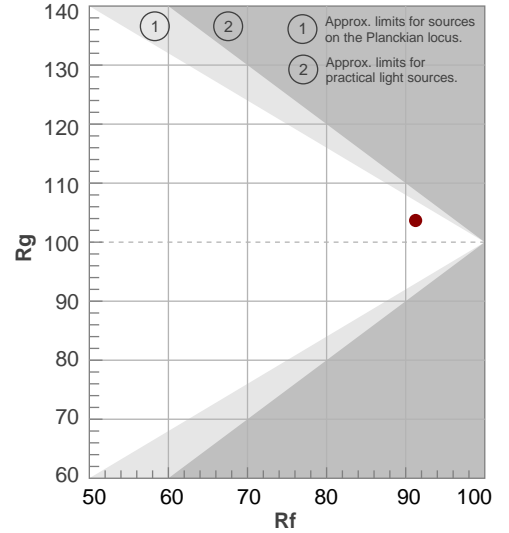
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2853 K	90,9	91,5	91,3	103,7	91,1	83	0,449	0,410	0,0009

# TM30 DETAILS

**Rf 91,3**  
Fidelity index Rf

**Rg 103,7**  
Gammut index

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

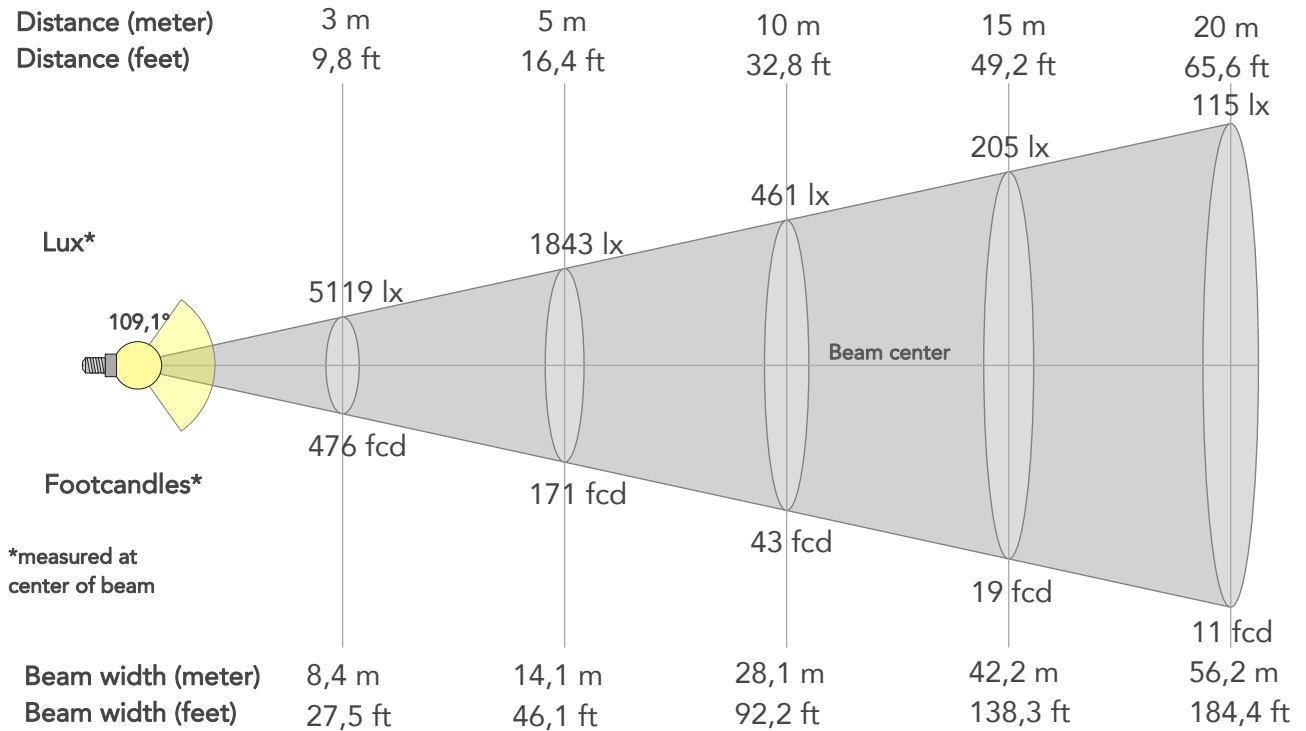




# BEAM DETAILS



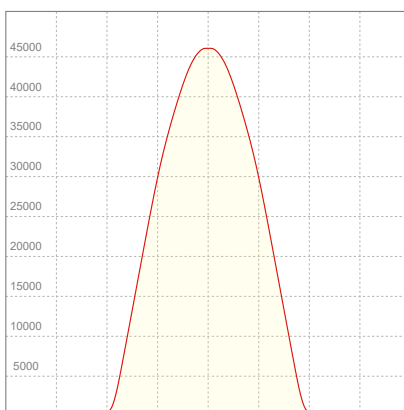
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
109,1°	158,3°	171,6°	80,1%	55,0%



## 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	46074lx	11519lx	5119lx	2880lx	1843lx	819lx	461lx	205lx	115lx	74lx	51lx	29lx	18lx
Footcand.	4280fcd	1070fcd	476fcd	268fcd	171fcd	76fcd	43fcd	19fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	2,8m	5,6m	8,4m	11,2m	14,1m	21,1m	28,1m	42,2m	56,2m	70,3m	84,3m	112,4m	140,5m
Beam wid.	9,3ft	18,5ft	27,5ft	36,8ft	46,1ft	69,1ft	92,2ft	138,3ft	184,4ft	230,4ft	276,5ft	368,7ft	460,9ft

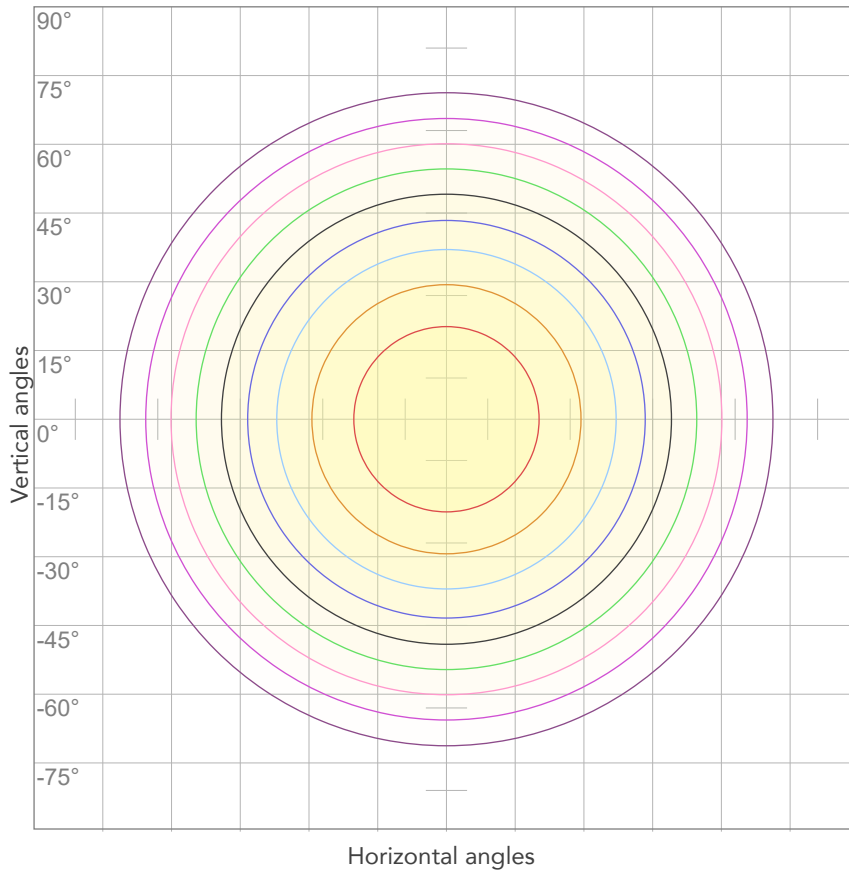
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	7,02A	1516W	70lm/W

## ISO CANDELA DIAGRAM



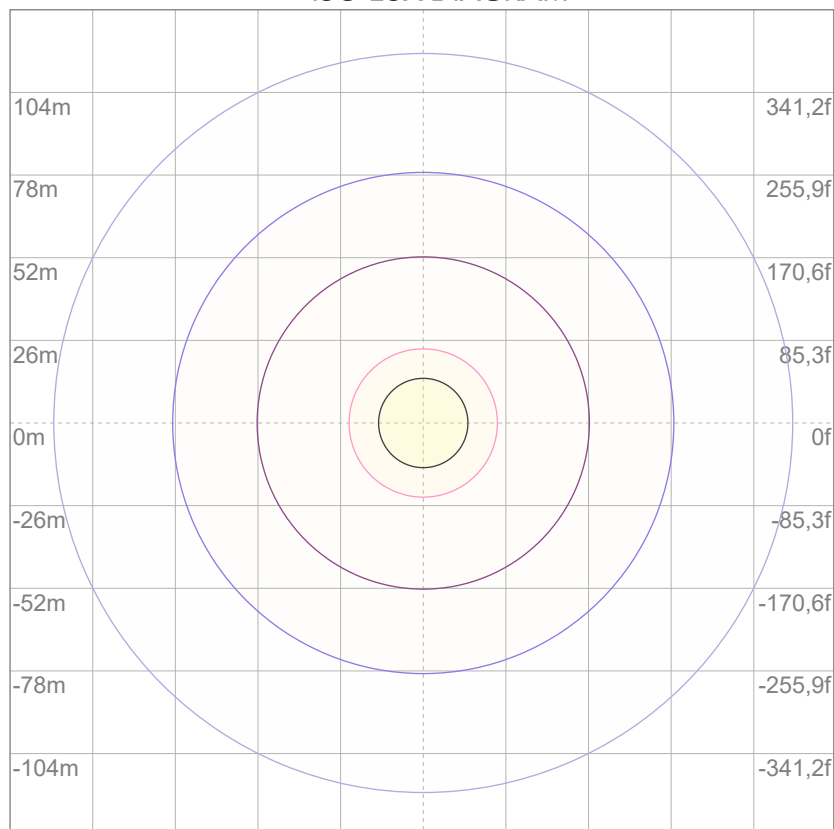
10%	4607 cd
20%	9215 cd
30%	13822 cd
40%	18430 cd
50%	23037 cd
60%	27644 cd
70%	32252 cd
80%	36859 cd

Conditions:

Number of c-planes: 2

Candela at center: 46074 cd

## ISO LUX DIAGRAM



3%	13,8 lx
5%	23,0 lx
10%	46,1 lx
30%	138 lx
50%	230 lx

Conditions:

Number of c-planes: 2

Lux at center: 461 lx

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



Total lumen output:

130490 lm

Peak candela output:

49080 cd

Light quality:

CRI: 90,9

Color temperature:

2864 K

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter LD

Target:

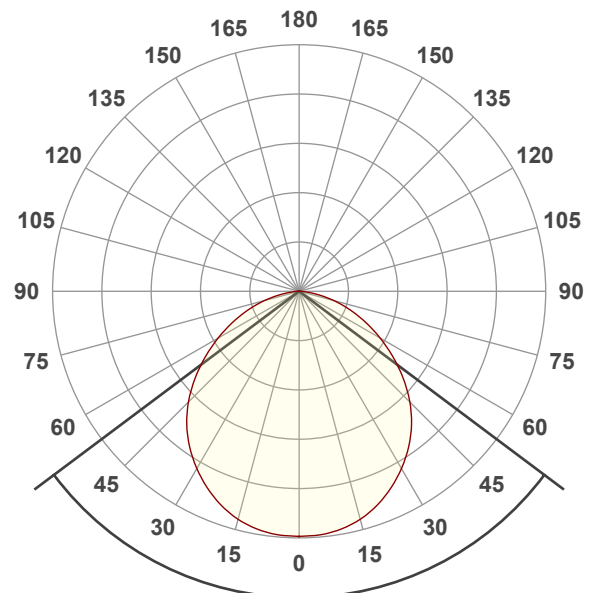
2800K

Operator:

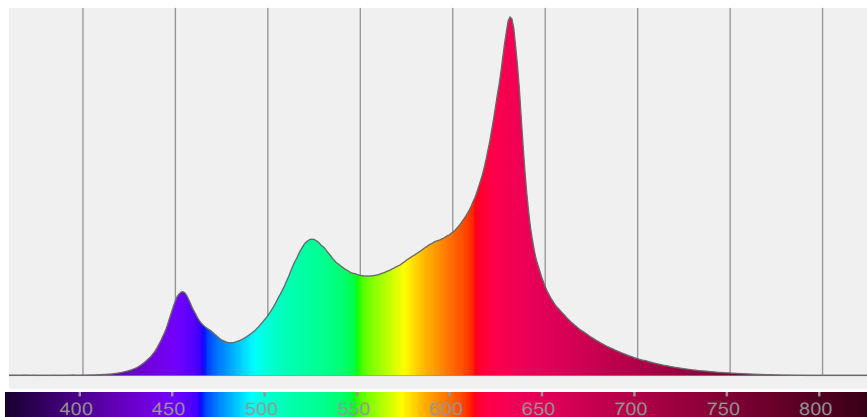
Paolo Carvone

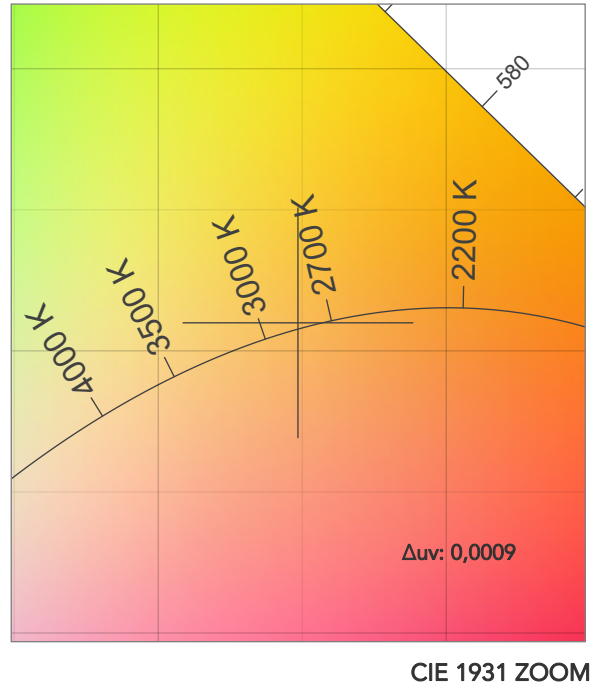
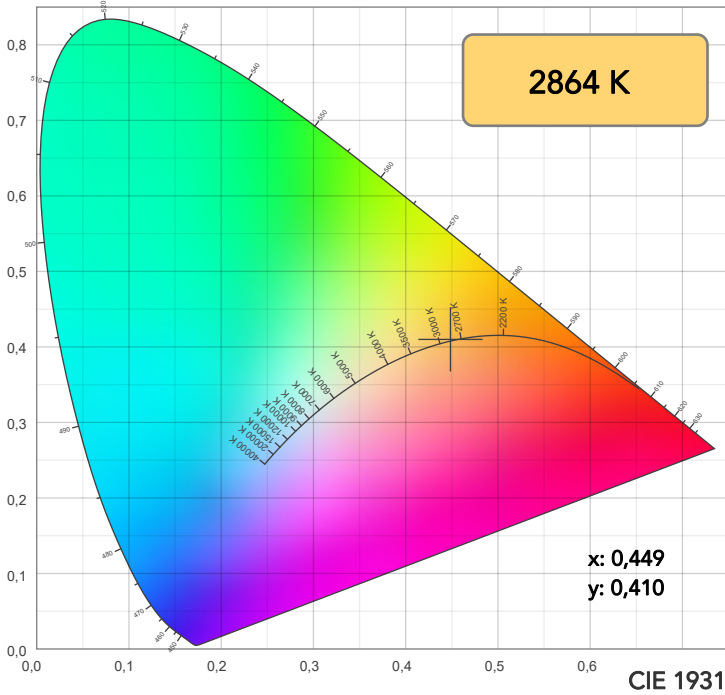
Date and time:

09/06/2022 11:44:06

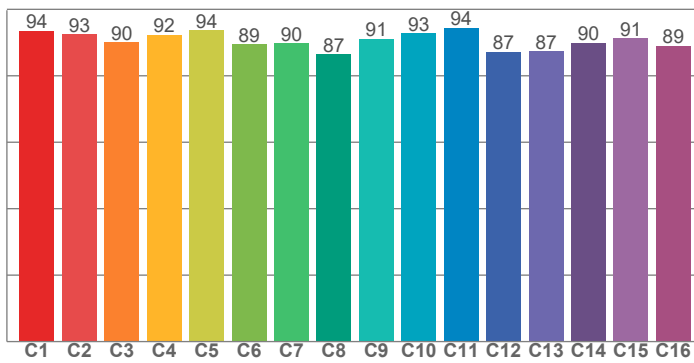


Spectra

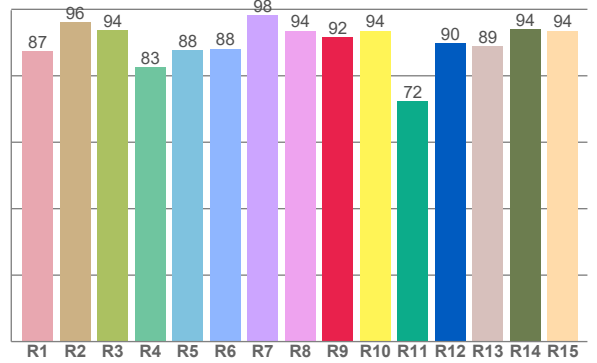




TM30: 91,2



CRI: 90,9 (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
87,3	96,2	93,8	82,5	87,7	88,1	98,2	93,5	91,5	93,6	72,3	89,8	88,9	94,1	93,5

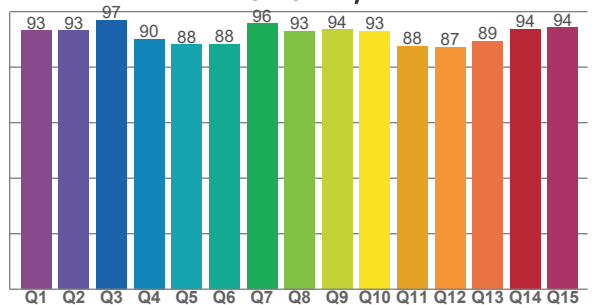
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,5	92,5	90,0	92,3	93,7	89,5	89,8	86,5	91,1	92,8	94,4	87,2	87,4	89,9	91,2	89,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,2	93,2	96,9	90,1	88,1	88,2	95,7	93,0	93,5	93,0	87,6	87,2	89,3	93,8	94,2

CQS: 91,1



COLOR PARAMETERS

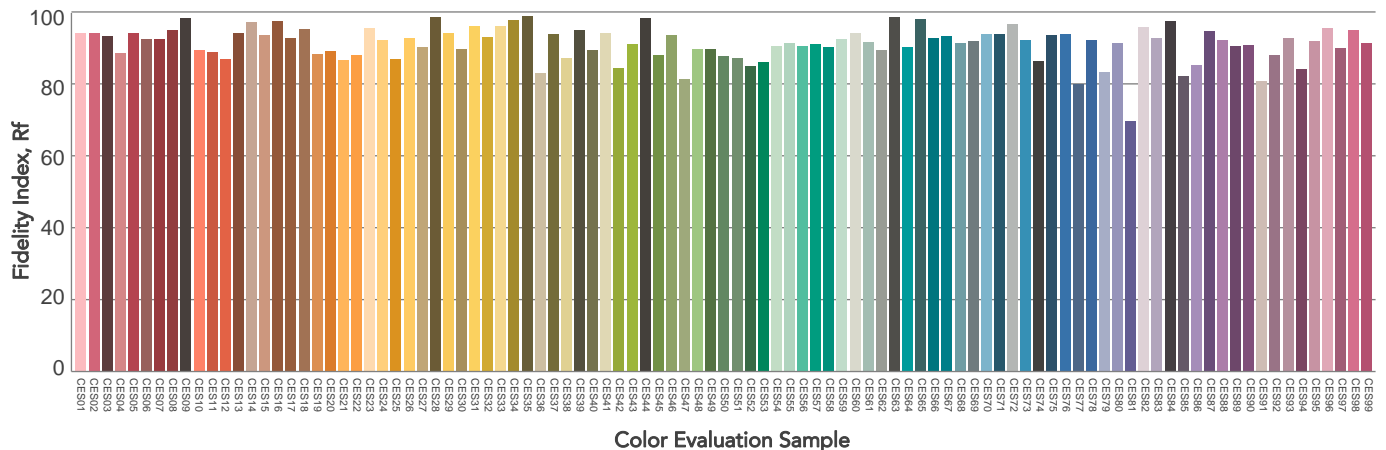
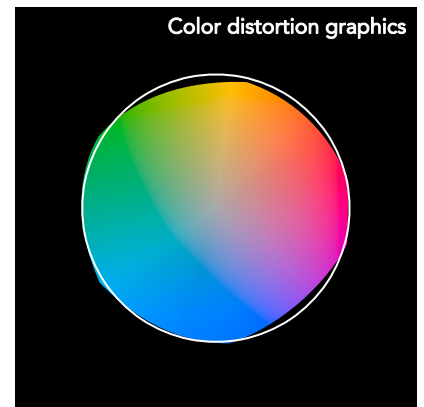
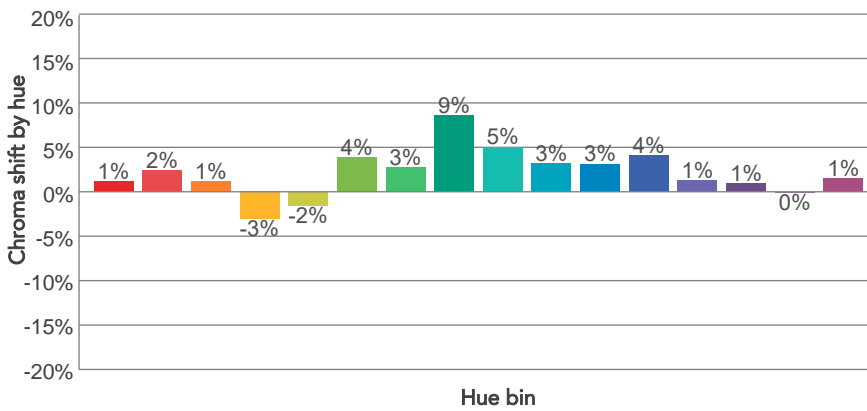
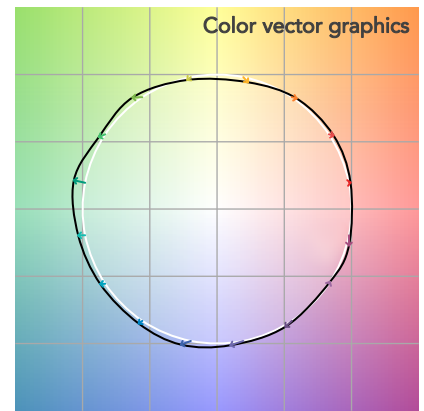
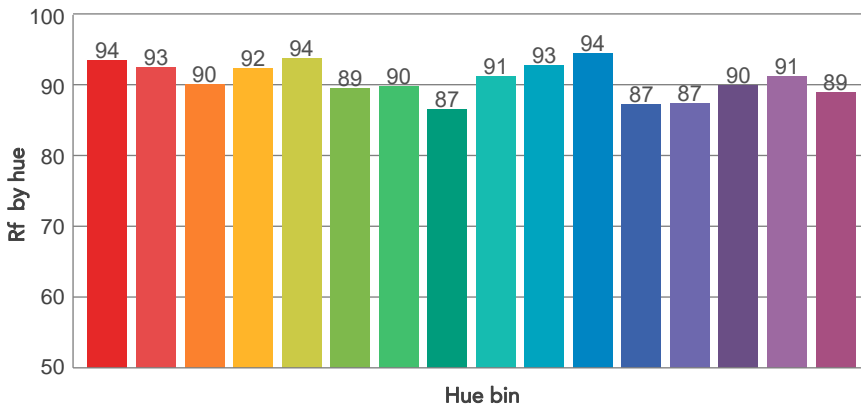
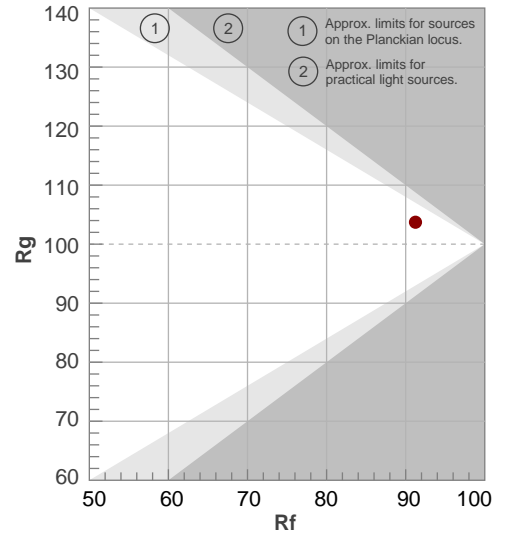
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2864 K	90,9	91,5	91,2	103,7	91,1	83	0,449	0,410	0,0009

# TM30 DETAILS

**Rf 91,2**  
Fidelity index Rf

**Rg 103,7**  
Gammut index

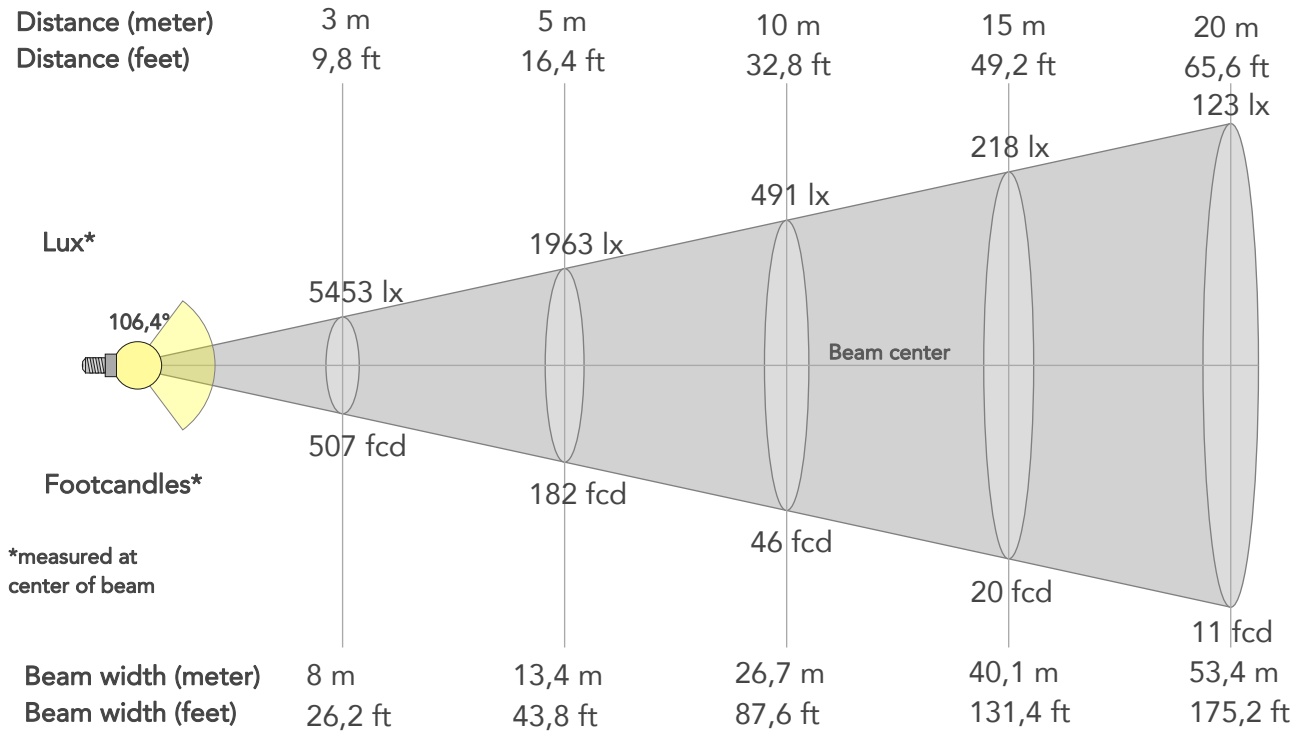
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	0%
2	93	2%	-3%
3	90	1%	-4%
4	92	-3%	-4%
5	94	-2%	3%
6	89	4%	6%
7	90	3%	4%
8	87	9%	0%
9	91	5%	-1%
10	93	3%	-2%
11	94	3%	-1%
12	87	4%	-7%
13	87	1%	-10%
14	90	1%	-6%
15	91	0%	2%
16	89	1%	-7%



# BEAM DETAILS



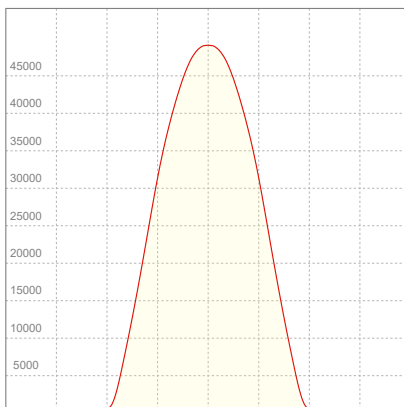
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
106,4°	156,6°	171,1°	81,6%	56,8%



## 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	49080lx	12270lx	5453lx	3067lx	1963lx	873lx	491lx	218lx	123lx	79lx	55lx	31lx	20lx
Footcand.	4560fcd	1140fcd	507fcd	285fcd	182fcd	81fcd	46fcd	20fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	2,7m	5,3m	8m	10,7m	13,4m	20m	26,7m	40,1m	53,4m	66,8m	80,1m	106,8m	133,6m
Beam wid.	8,8ft	17,6ft	26,2ft	35ft	43,8ft	65,7ft	87,6ft	131,4ft	175,2ft	219ft	262,8ft	350,4ft	438ft

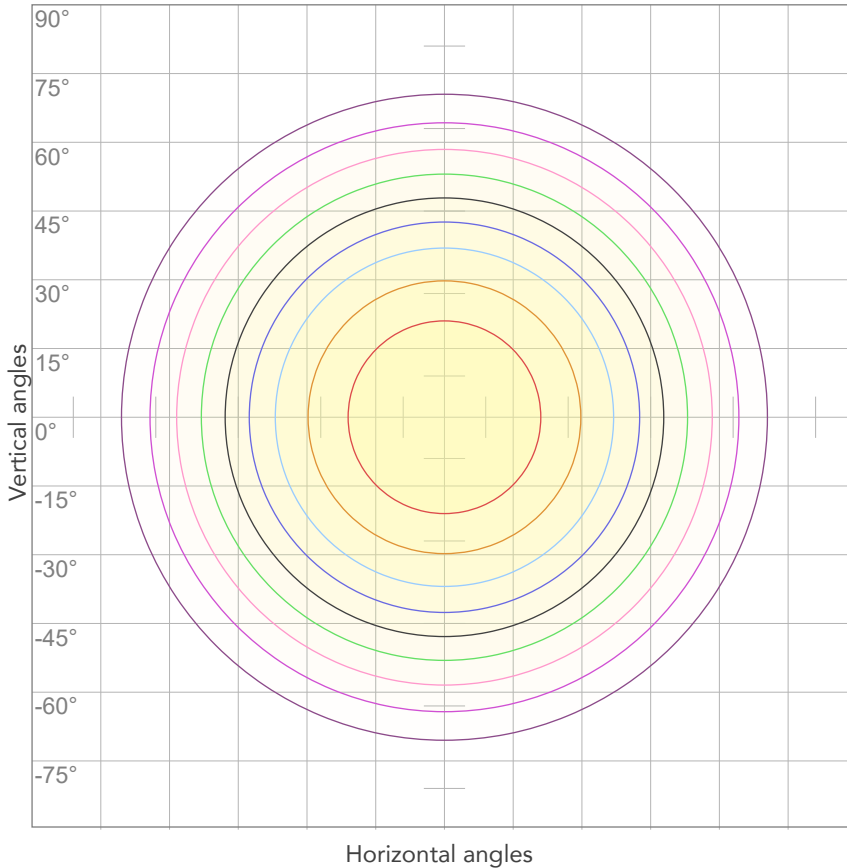
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	7,02A	1516W	70lm/W

## ISO CANDELA DIAGRAM



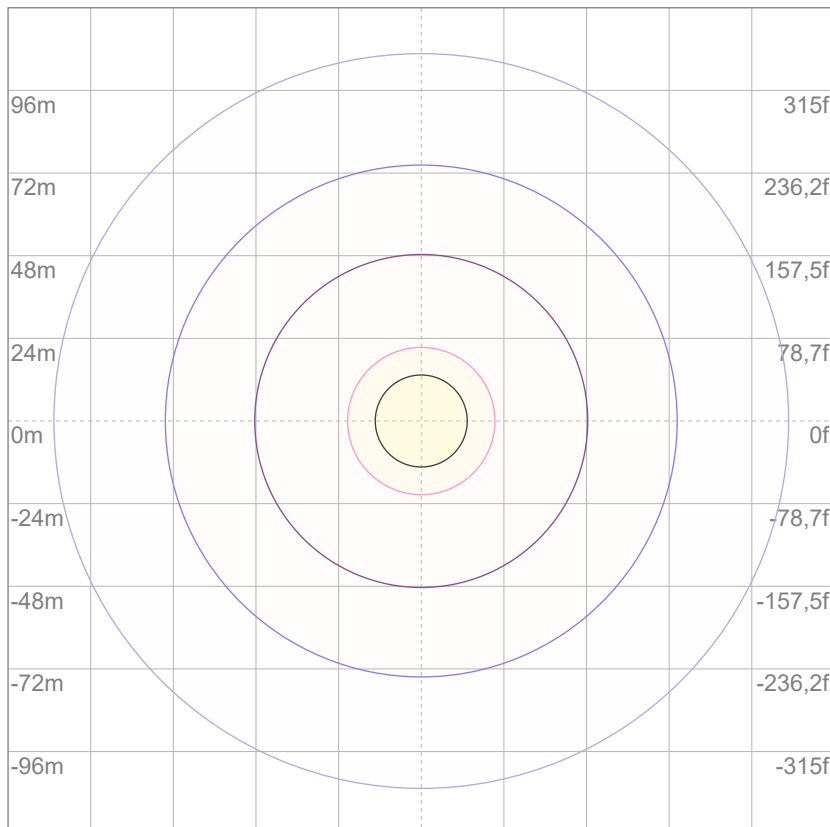
10%	4908 cd
20%	9816 cd
30%	14724 cd
40%	19632 cd
50%	24540 cd
60%	29448 cd
70%	34356 cd
80%	39264 cd

Conditions:

Number of c-planes: 2

Candela at center: 49080 cd

## ISO LUX DIAGRAM



3%	14,7 lx
5%	24,5 lx
10%	49,1 lx
30%	147 lx
50%	245 lx

Conditions:

Number of c-planes: 2

Lux at center: 491 lx

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



Total lumen output:

99736 lm

Peak candela output:

60972 cd

Light quality:

CRI: 91,1

Color temperature:

2853 K

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASURAMENT CONDITIONS:**

Beam angle:

Filter INT

Target:

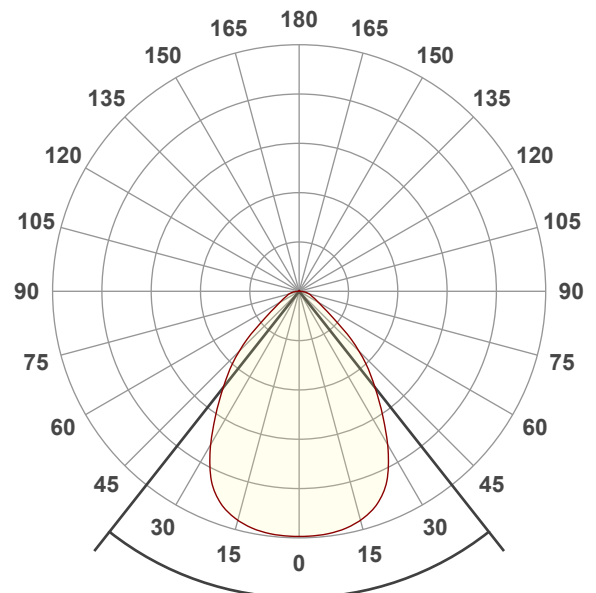
2800K

Operator:

Paolo Carvone

Date and time:

24/06/2022 09:12:24

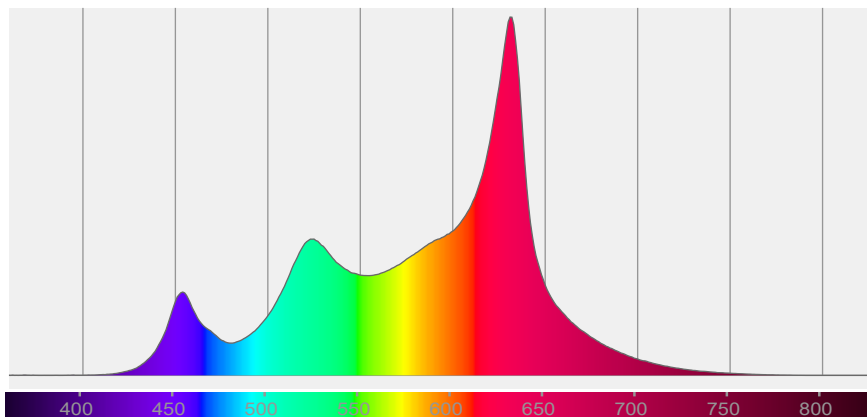


Beam angle 50%: 76,5°

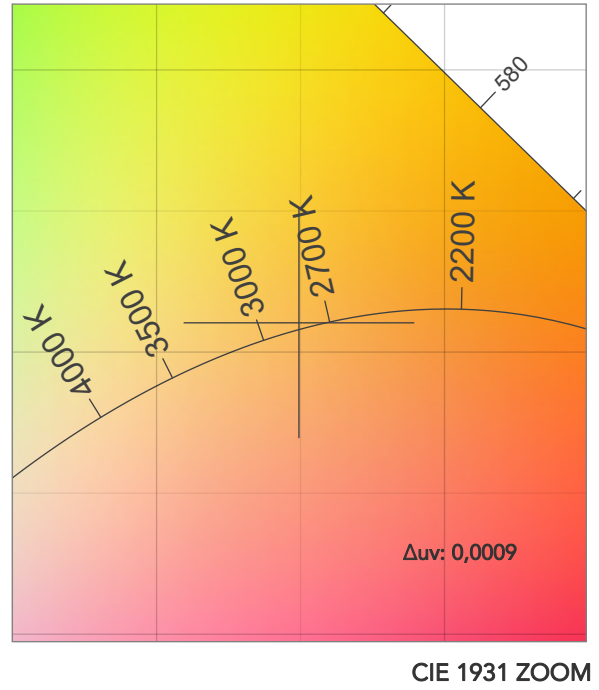
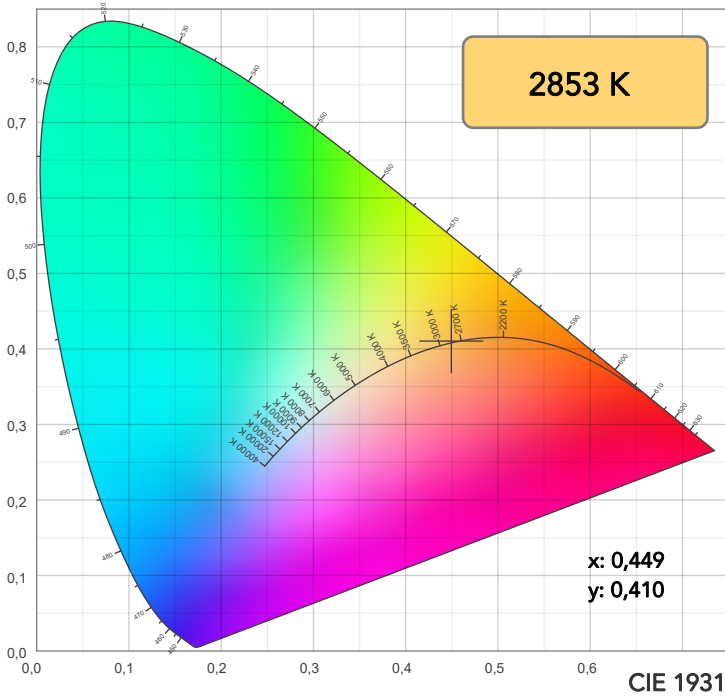
Field angle 10%: 117,7°

Cut off angle 2.5%: 164,8°

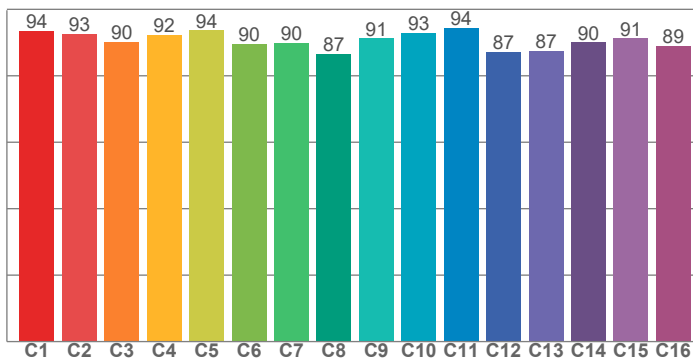
Spectra



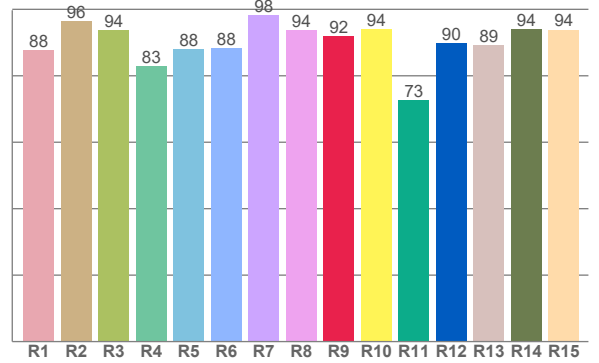




TM30: 91,3



CRI: 91,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
87,6	96,4	93,7	82,8	88,0	88,4	98,3	93,7	91,9	93,9	72,6	89,9	89,2	94,1	93,8

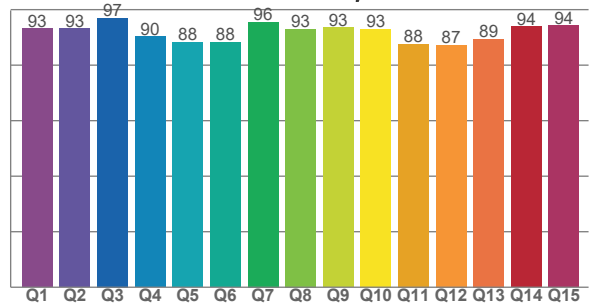
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,6	92,6	90,2	92,4	93,7	89,5	89,9	86,6	91,3	92,9	94,5	87,3	87,5	90,0	91,3	89,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,2	93,2	96,9	90,2	88,2	88,2	95,6	93,1	93,5	93,0	87,6	87,3	89,4	93,9	94,3

CQS: 91,2



COLOR PARAMETERS

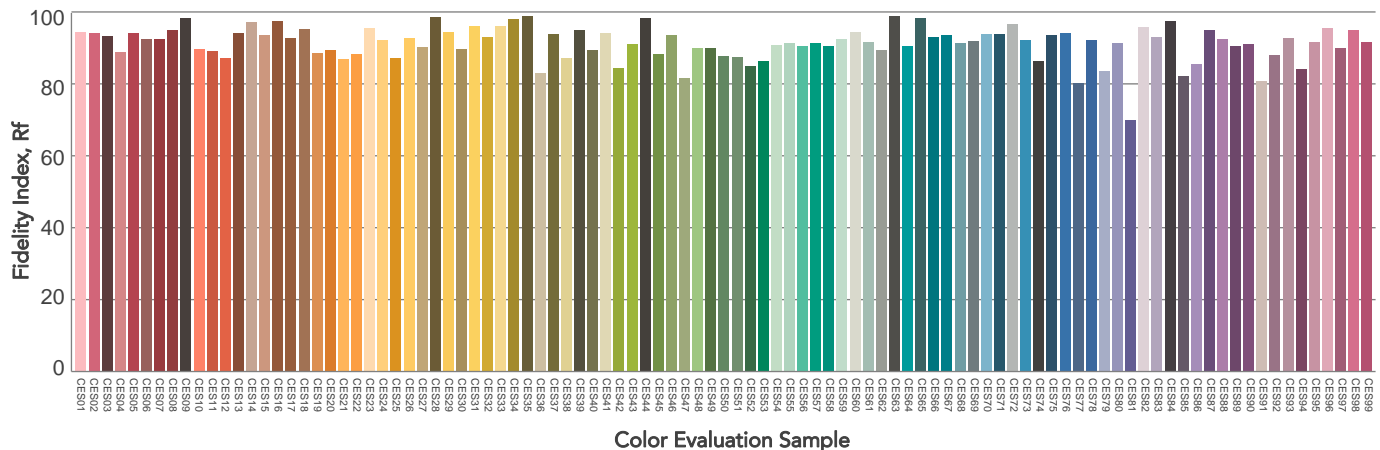
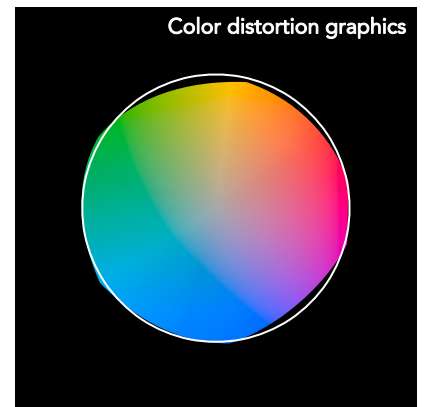
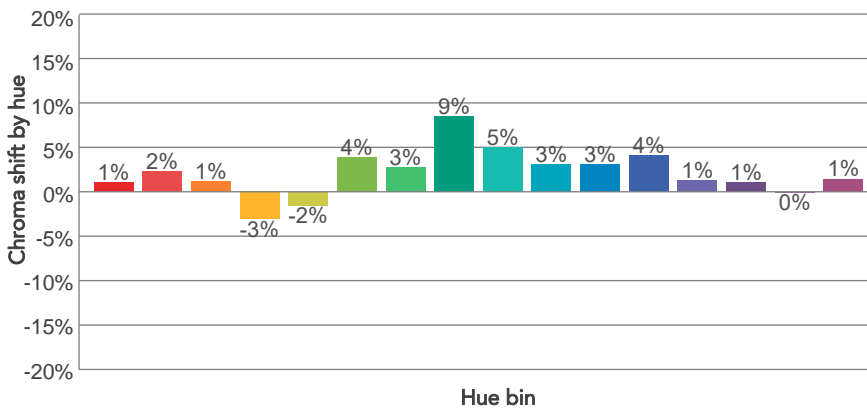
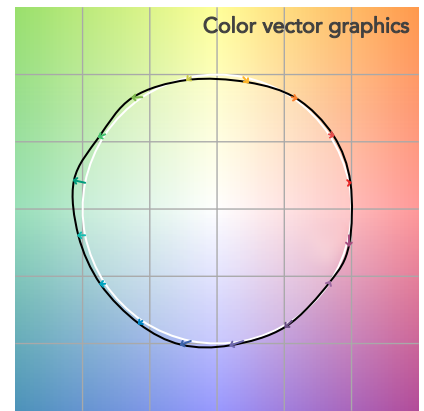
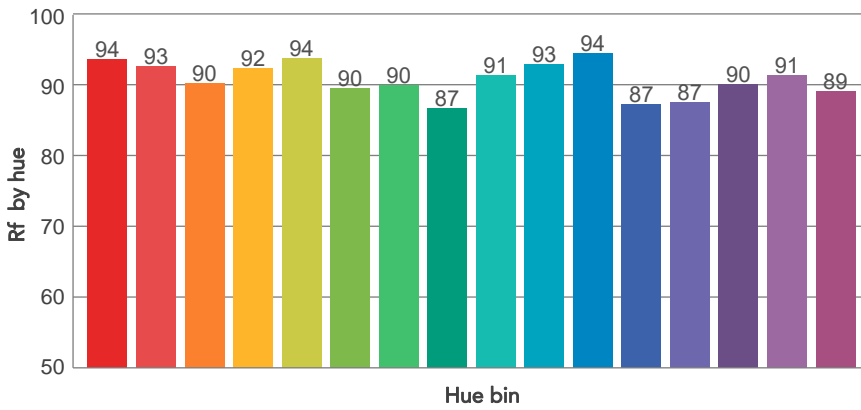
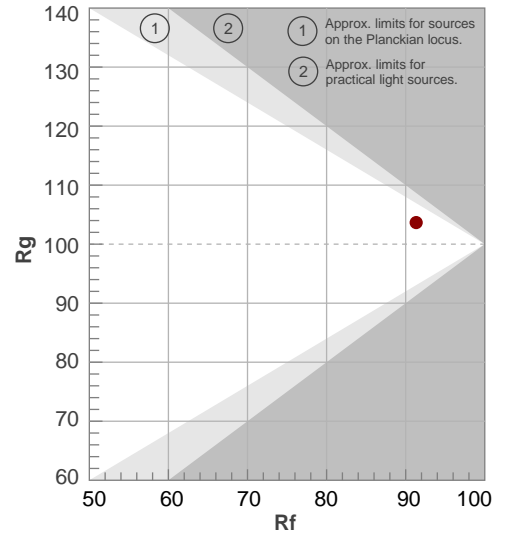
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2853 K	91,1	91,9	91,3	103,7	91,2	83	0,449	0,410	0,0009

# TM30 DETAILS

**Rf 91,3**  
Fidelity index Rf

**Rg 103,7**  
Gammut index

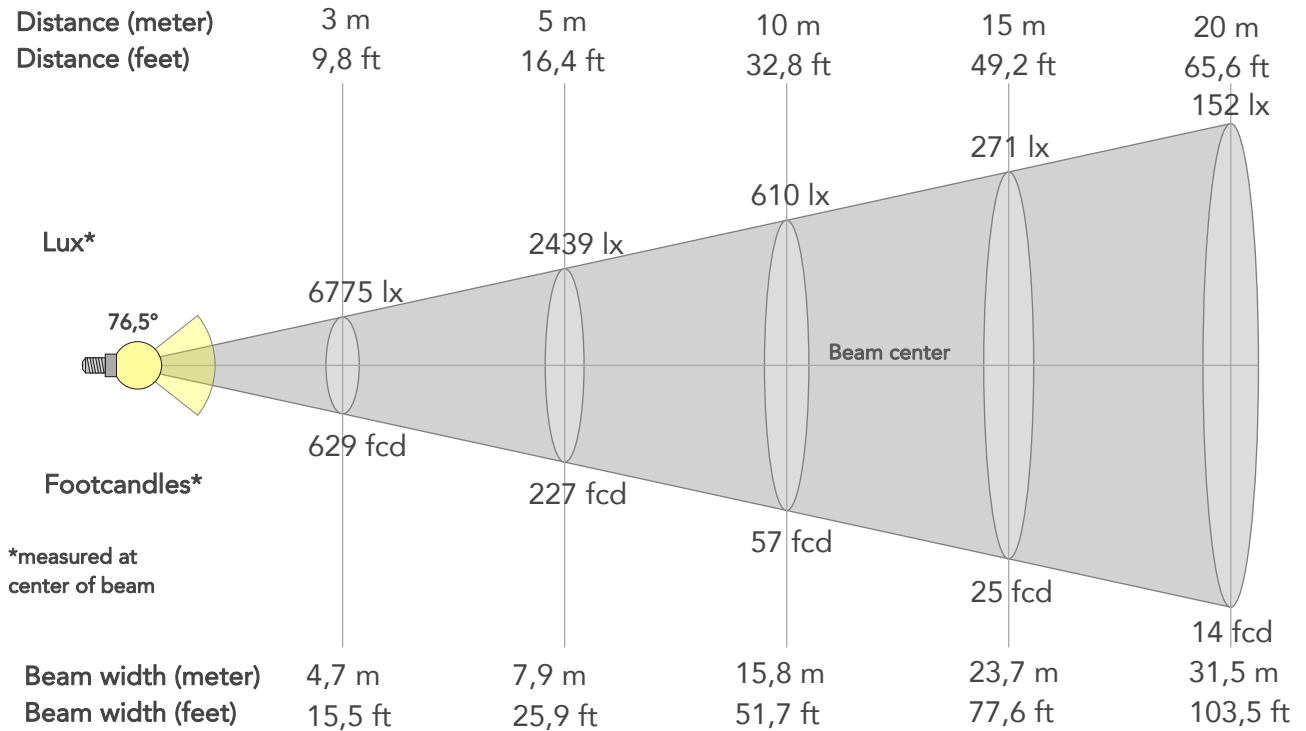
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	0%
2	93	2%	-3%
3	90	1%	-3%
4	92	-3%	-4%
5	94	-2%	3%
6	90	4%	6%
7	90	3%	4%
8	87	9%	0%
9	91	5%	-1%
10	93	3%	-2%
11	94	3%	-1%
12	87	4%	-7%
13	87	1%	-10%
14	90	1%	-6%
15	91	0%	1%
16	89	1%	-7%



# BEAM DETAILS



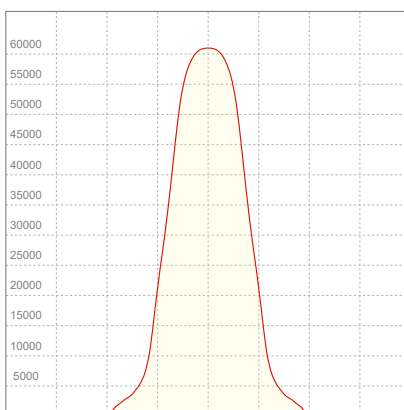
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76,5°	117,7°	164,8°	92,0%	77,6%



## 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	60972lx	15243lx	6775lx	3811lx	2439lx	1084lx	610lx	271lx	152lx	98lx	68lx	38lx	24lx
Footcand.	5664fcd	1416fcd	629fcd	354fcd	227fcd	101fcd	57fcd	25fcd	14fcd	9fcd	6fcd	4fcd	2fcd
Beam wid.	1,6m	3,2m	4,7m	6,3m	7,9m	11,8m	15,8m	23,7m	31,5m	39,4m	47,3m	63,1m	78,9m
Beam wid.	5,2ft	10,4ft	15,5ft	20,7ft	25,9ft	38,8ft	51,7ft	77,6ft	103,5ft	129,3ft	155,2ft	207ft	258,7ft

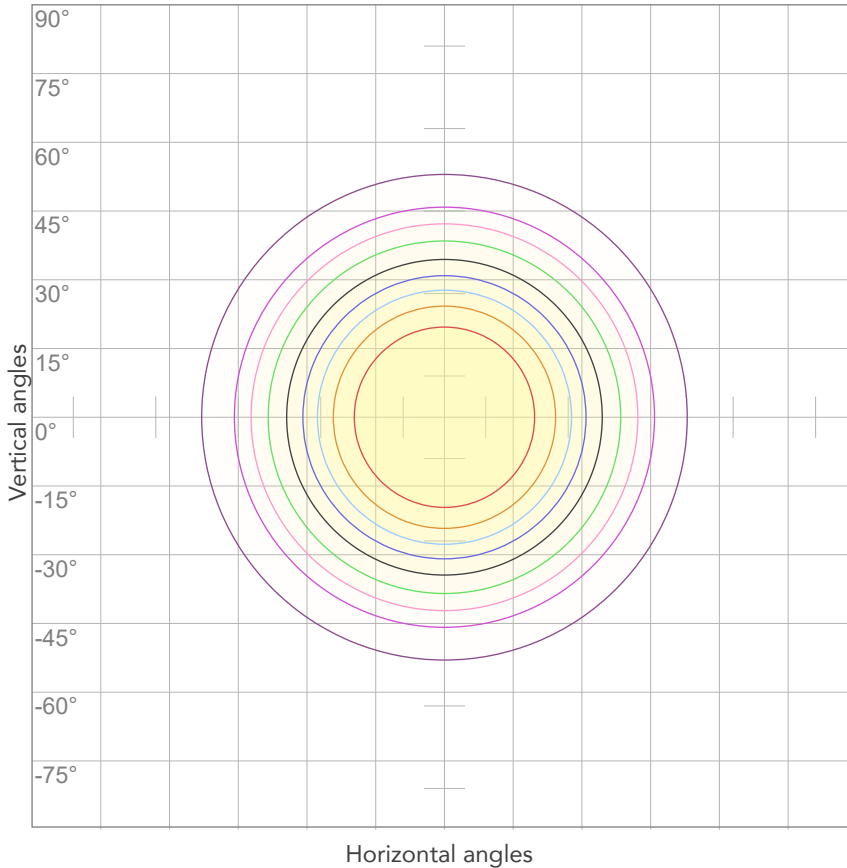
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	7.02A	1516W	70lm/W

## ISO CANDELA DIAGRAM



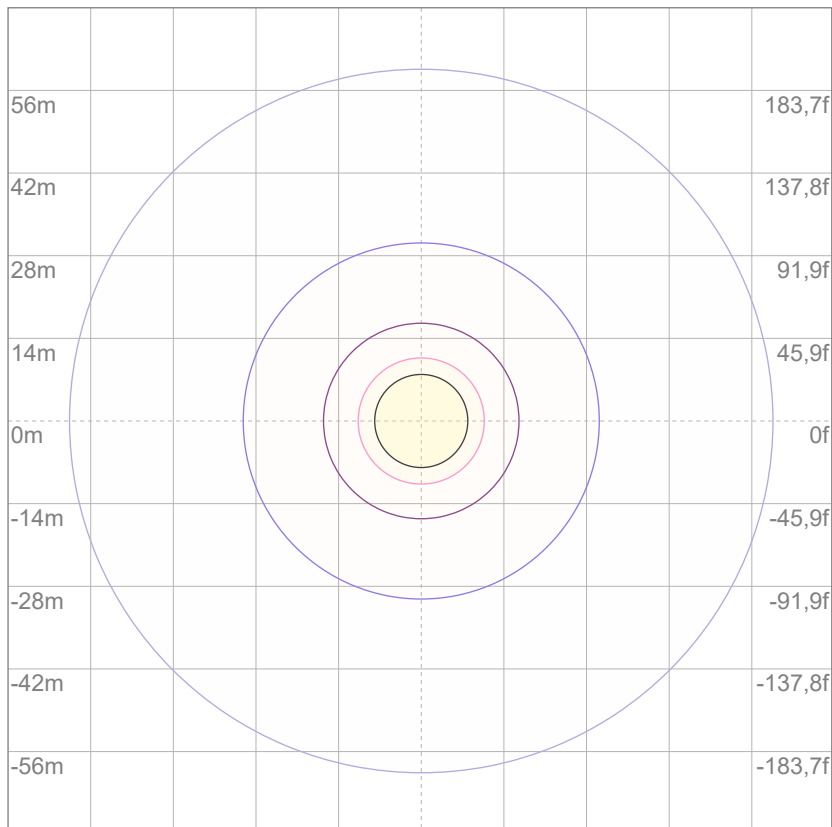
10%	6097 cd
20%	12194 cd
30%	18292 cd
40%	24389 cd
50%	30486 cd
60%	36583 cd
70%	42680 cd
80%	48778 cd

Conditions:

Number of c-planes: 2

Candela at center: 60972 cd

## ISO LUX DIAGRAM



3%	18,3 lx
5%	30,5 lx
10%	61,0 lx
30%	183 lx
50%	305 lx

Conditions:

Number of c-planes: 2

Lux at center: 610 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

106833 lm

Peak candela output:

36956 cd

Light quality:

CRI: 90,6

Color temperature:

3261 K

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter HD

Target:

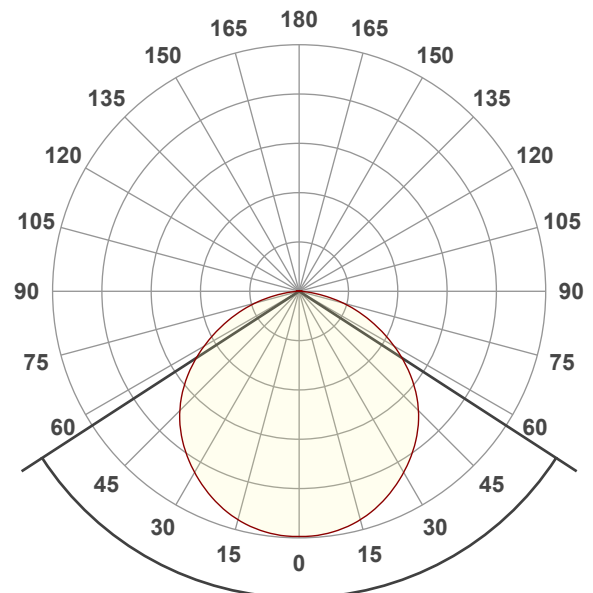
3200K

Operator:

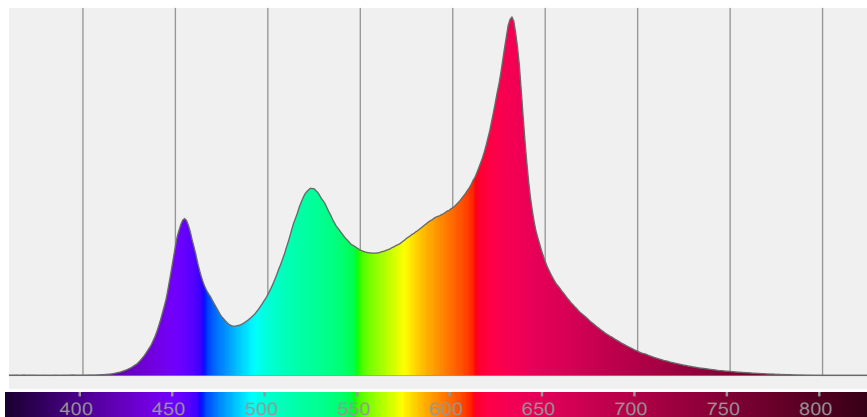
Paolo Carvone

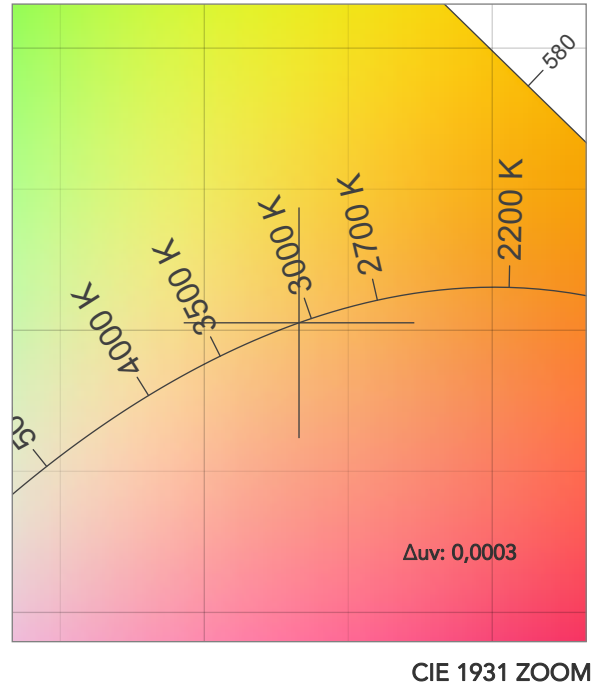
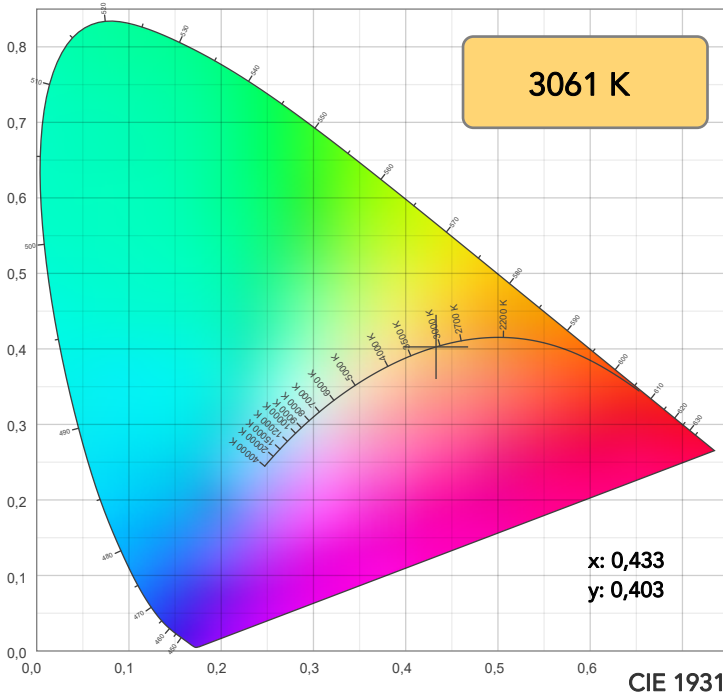
Date and time:

09/06/2022 12:27:12



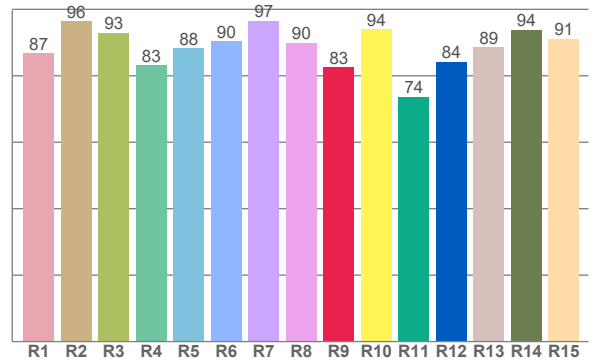
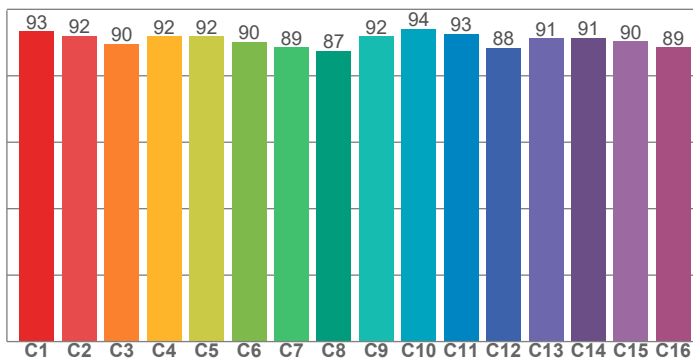
Spectra





TM30: 91,3

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
86,8	96,5	92,9	83,1	88,4	90,4	96,5	90,0	82,6	94,1	73,7	84,2	88,6	93,8	91,2

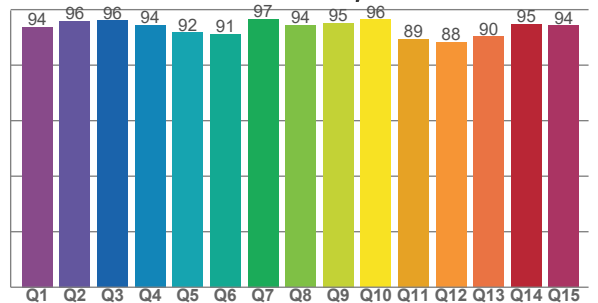
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,4	92,1	89,6	91,8	91,8	90,1	88,6	87,5	91,9	94,1	92,6	88,4	91,3	91,4	90,3	88,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,8	96,0	96,1	94,5	91,8	91,3	96,6	94,4	95,2	96,4	89,5	88,3	90,2	94,7	94,2

CQS: 93,0



COLOR PARAMETERS

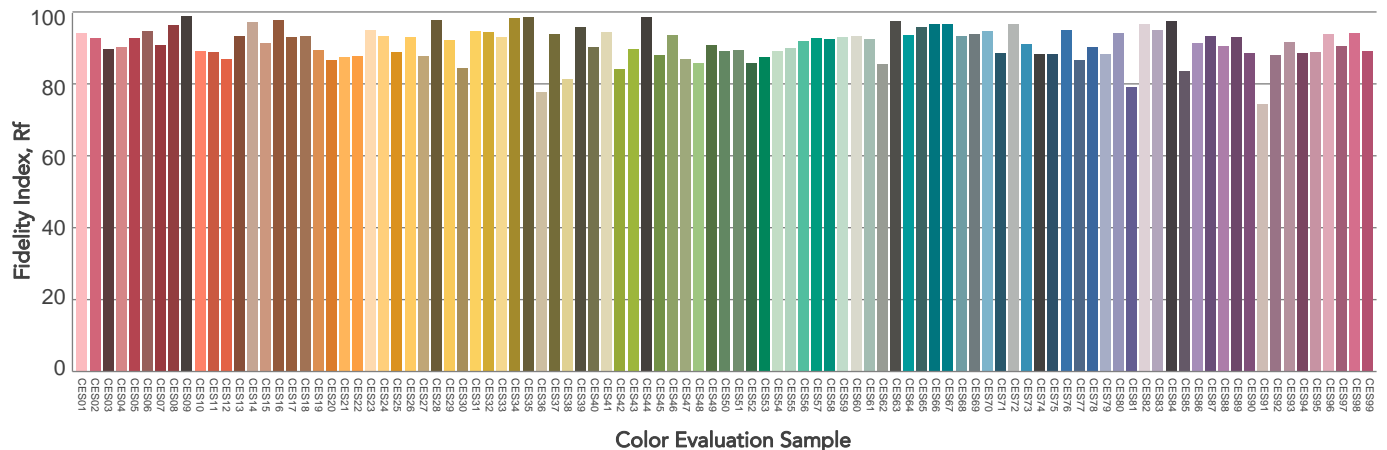
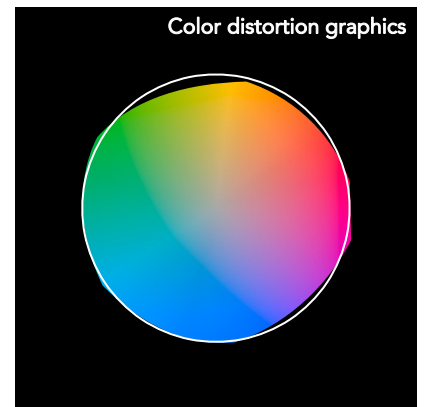
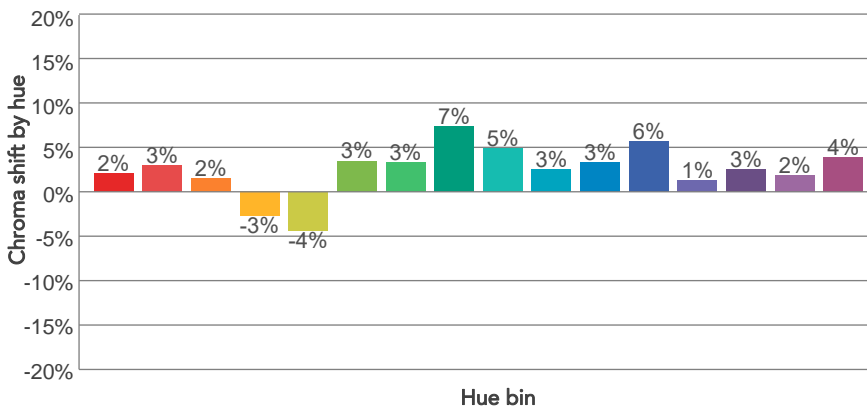
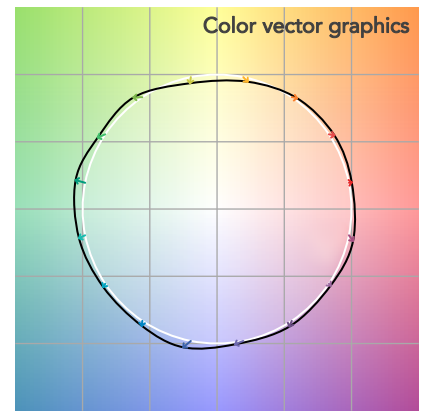
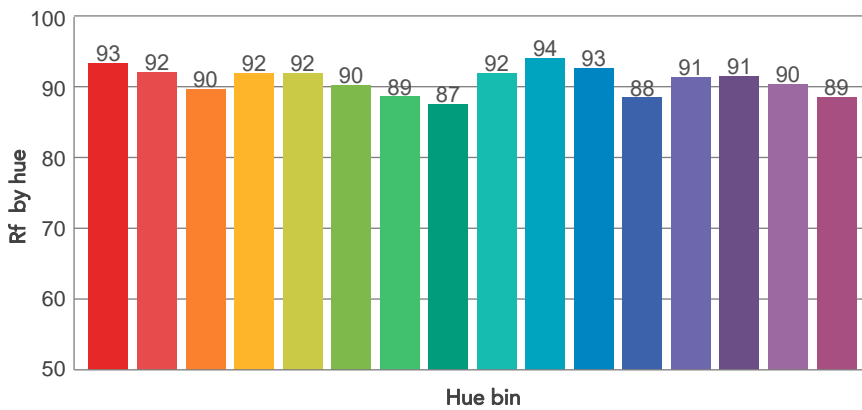
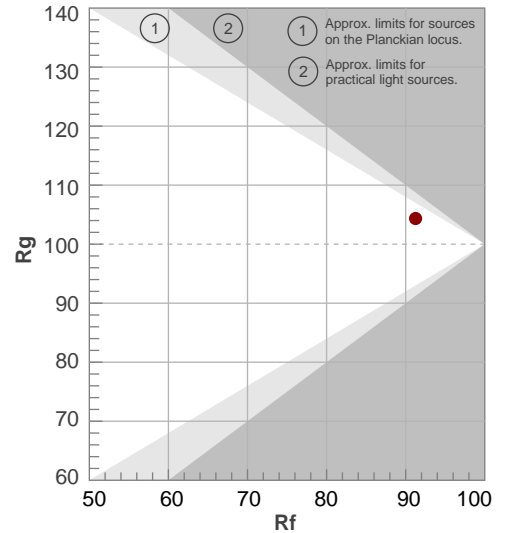
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3061 K	90,6	82,6	91,3	104,3	93,0	81	0,433	0,403	0,0003

# TM30 DETAILS

**Rf 91,3**  
Fidelity index Rf

**Rg 104,3**  
Gammut index

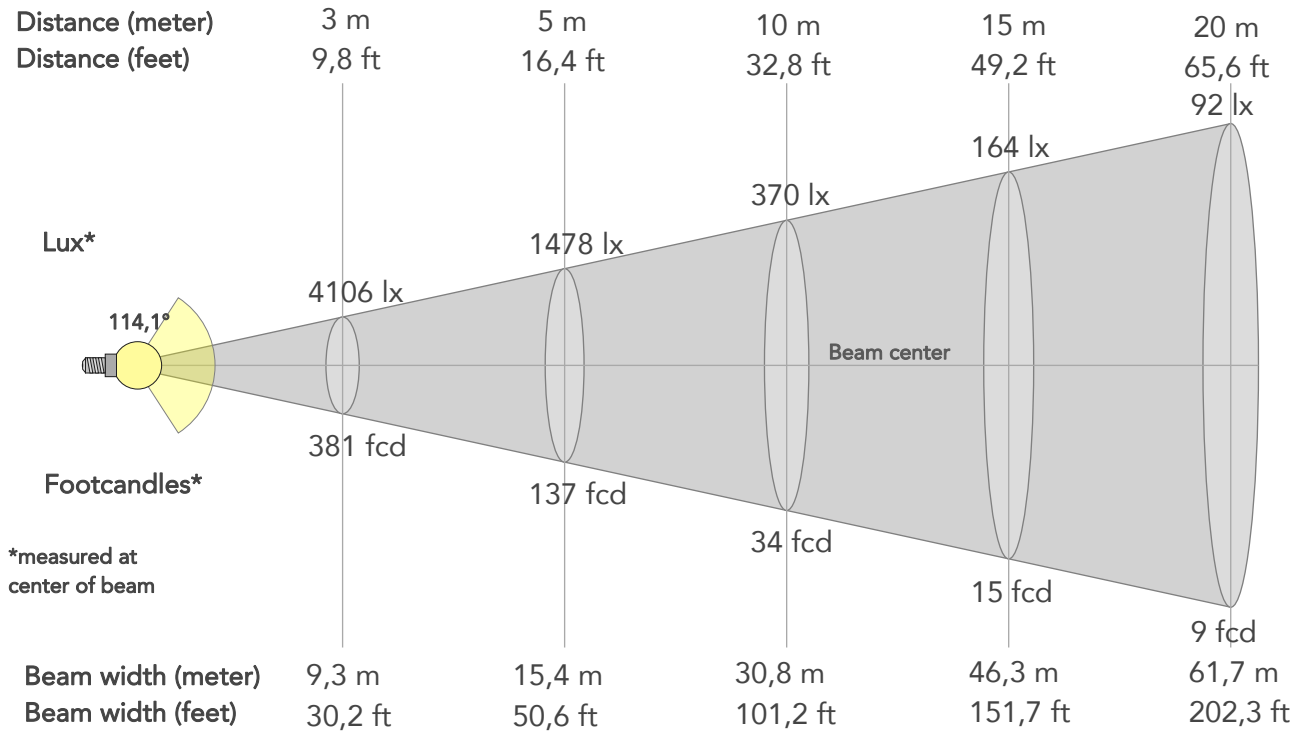
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	0%
2	92	3%	-3%
3	90	2%	-4%
4	92	-3%	-4%
5	92	-4%	1%
6	90	3%	6%
7	89	3%	5%
8	87	7%	-1%
9	92	5%	1%
10	94	3%	1%
11	93	3%	2%
12	88	6%	-5%
13	91	1%	-6%
14	91	3%	-4%
15	90	2%	0%
16	89	4%	-4%



# BEAM DETAILS



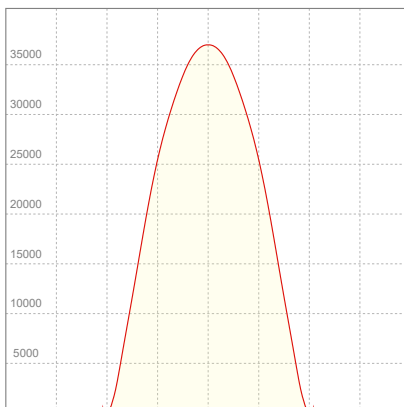
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,1°	160,1°	171,8°	79,3%	53,7%



## 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	36956lx	9239lx	4106lx	2310lx	1478lx	657lx	370lx	164lx	92lx	59lx	41lx	23lx	15lx
Footcand.	3433fcd	858fcd	381fcd	215fcd	137fcd	61fcd	34fcd	15fcd	9fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	3,1m	6,2m	9,3m	12,3m	15,4m	23,1m	30,8m	46,3m	61,7m	77,1m	92,5m	123,4m	154,2m
Beam wid.	10,2ft	20,4ft	30,2ft	40,4ft	50,6ft	75,9ft	101,2ft	151,7ft	202,3ft	252,9ft	303,5ft	404,6ft	505,8ft

## LINEAR DISTRIBUTION DIAGRAM

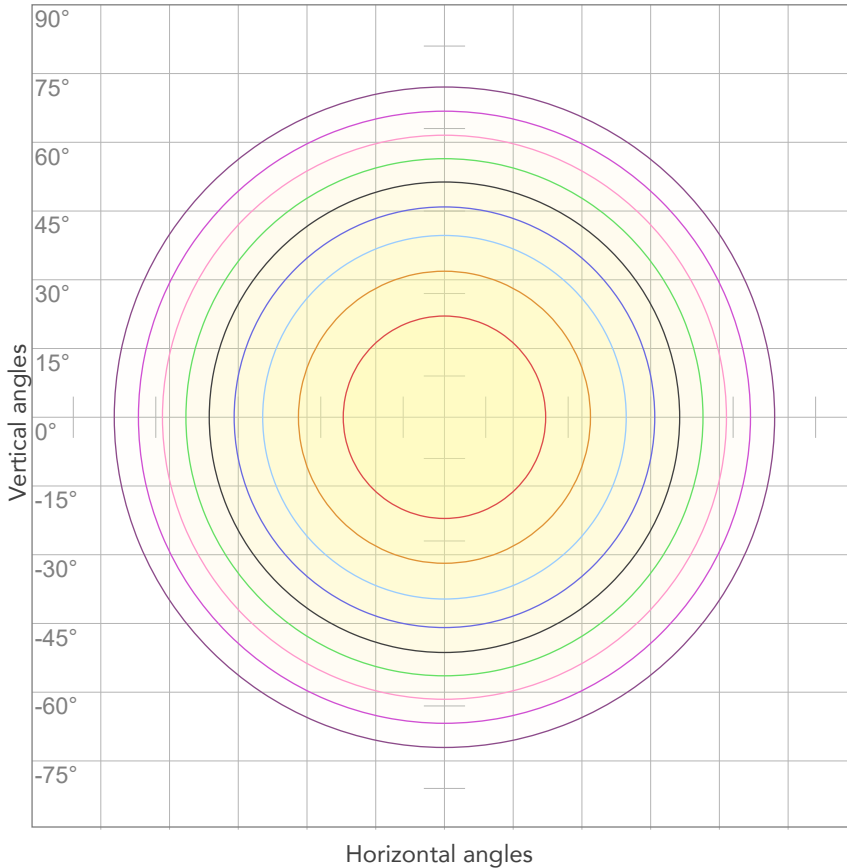


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6.97A	1508W	70lm/W



## ISO CANDELA DIAGRAM



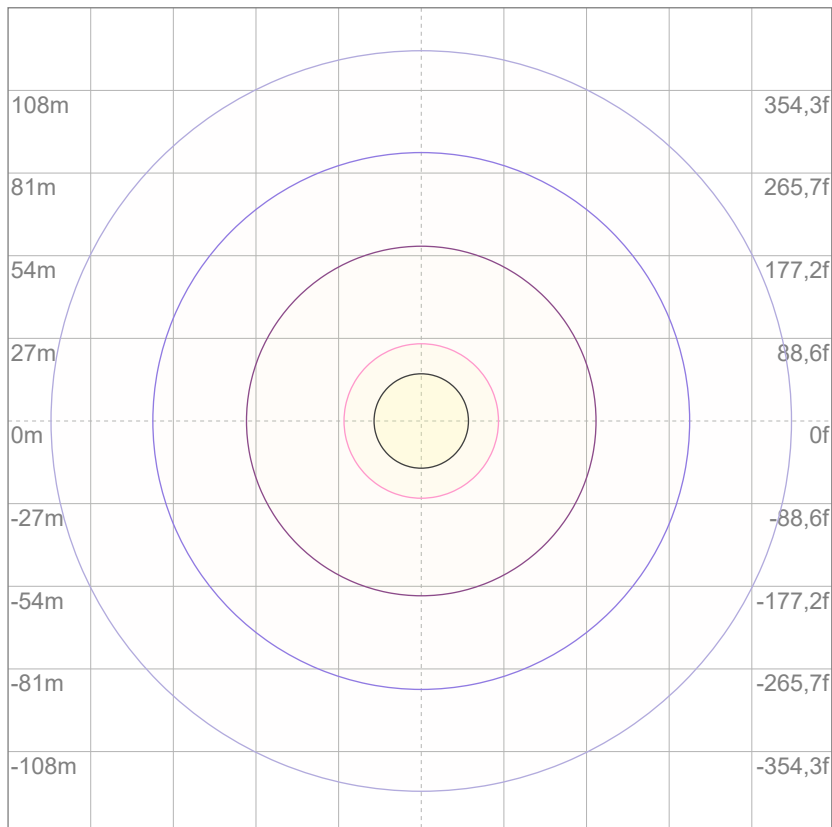
10%	3696 cd
20%	7391 cd
30%	11087 cd
40%	14782 cd
50%	18478 cd
60%	22173 cd
70%	25869 cd
80%	29565 cd

Conditions:

Number of c-planes: 2

Candela at center: 36956 cd

## ISO LUX DIAGRAM



3%	11,1 lx
5%	18,5 lx
10%	37,0 lx
30%	111 lx
50%	185 lx

Conditions:

Number of c-planes: 2

Lux at center: 370 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

126387 lm

Peak candela output:

46171 cd

Light quality:

CRI: 93,4

Color temperature:

3209 K

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter MD

Target:

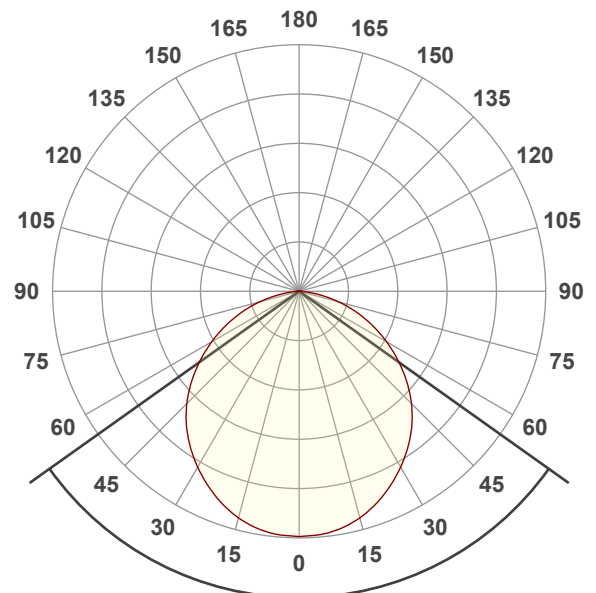
3200K

Operator:

Paolo Carvone

Date and time:

09/06/2022 11:05:51

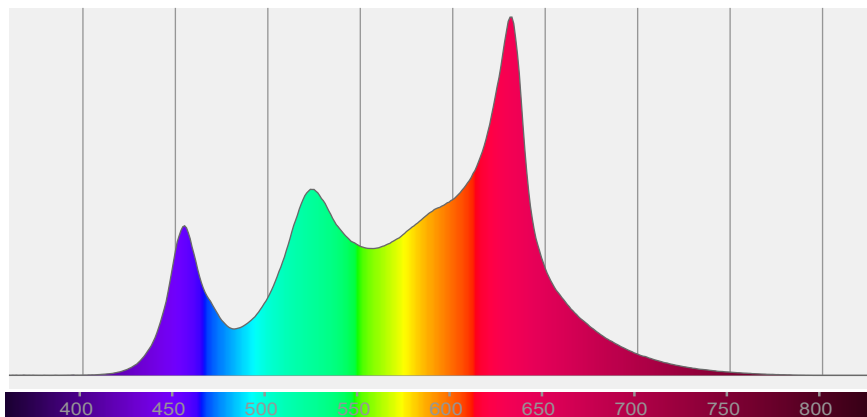


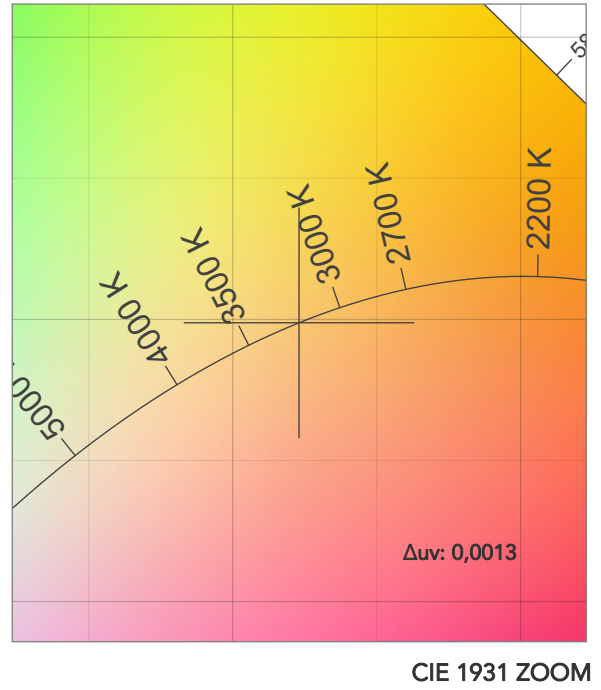
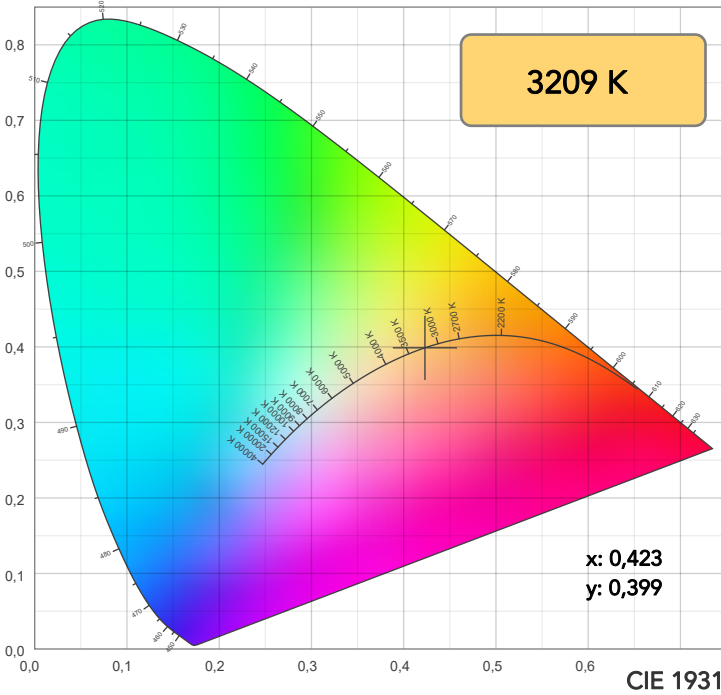
Beam angle 50%: 109,2°

Field angle 10%: 158,5°

Cut off angle 2.5%: 171,9°

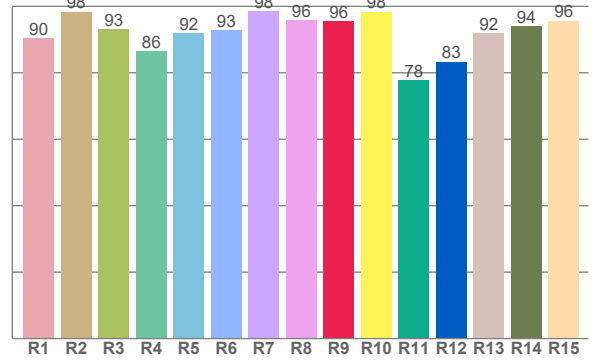
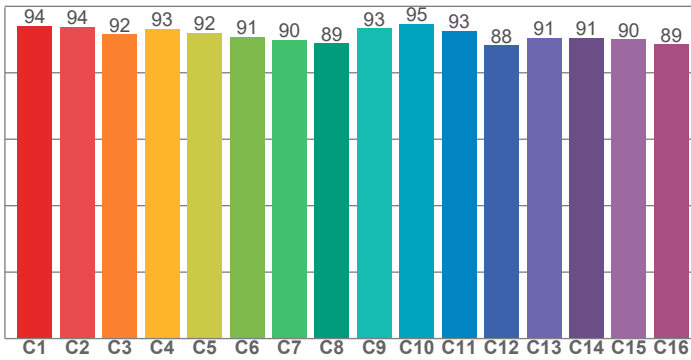
Spectra





TM30: 91,9

CRI: 93,4 (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
90,3	98,4	93,1	86,4	91,9	92,8	98,5	95,8	95,6	98,3	77,7	83,4	91,9	94,0	95,7

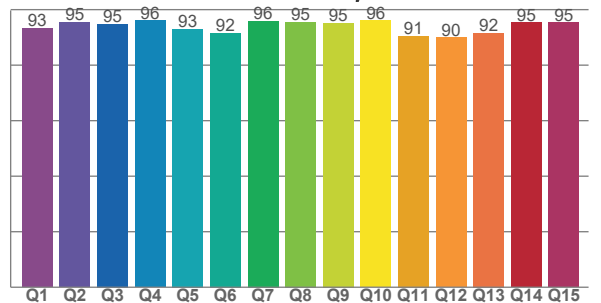
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 93,6



COLOR PARAMETERS

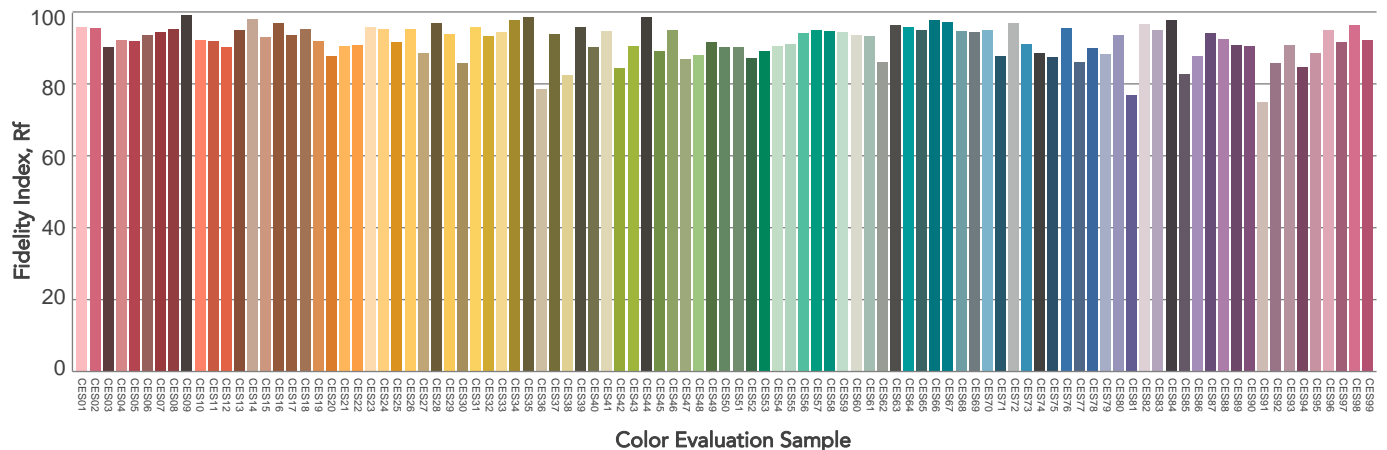
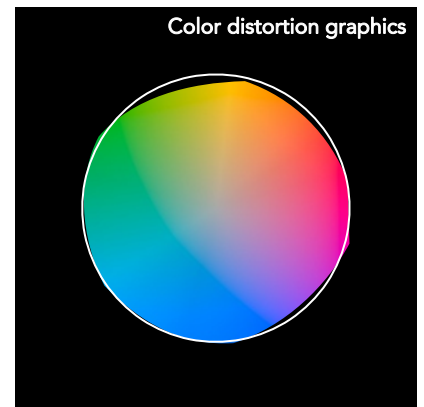
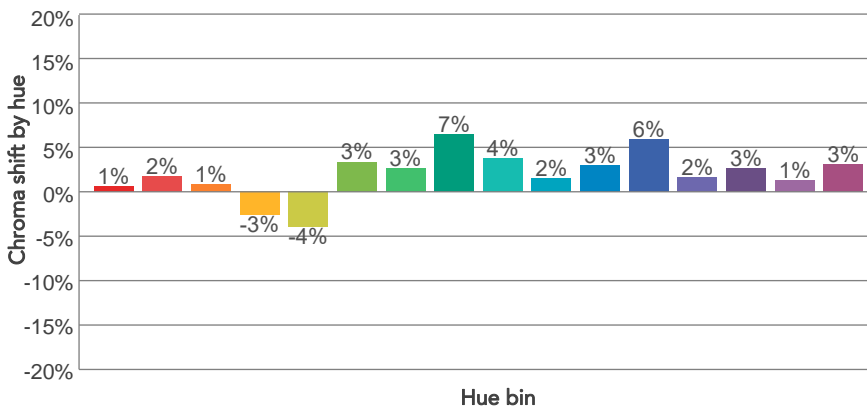
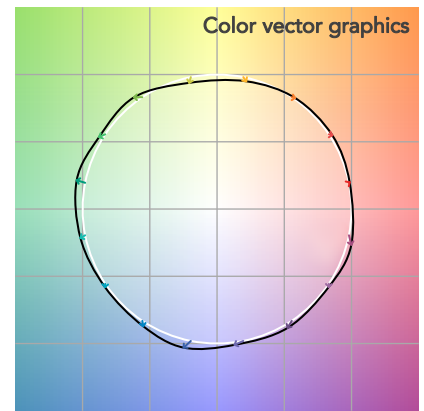
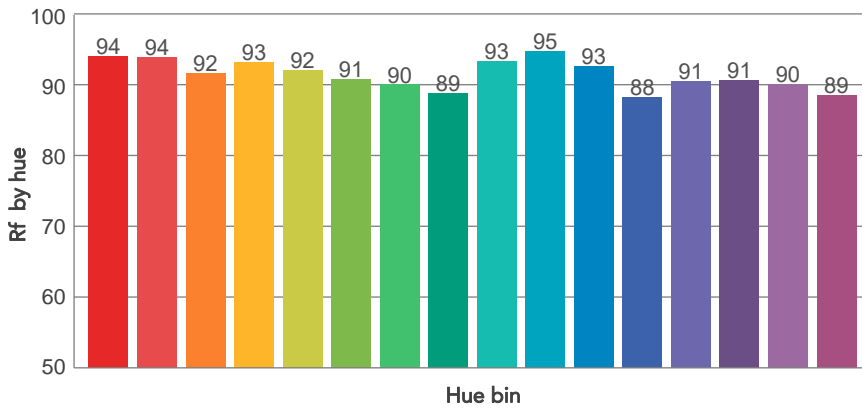
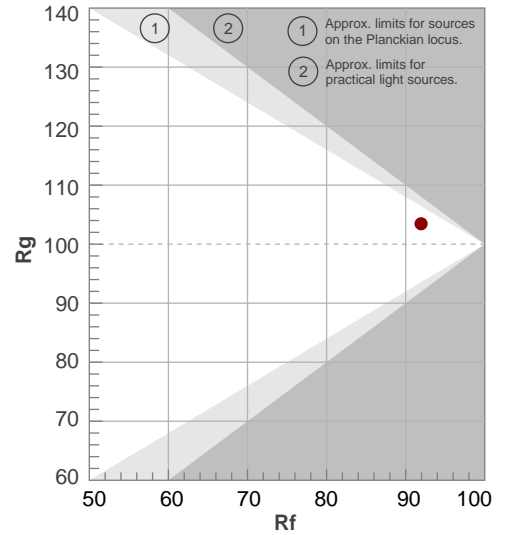
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3209 K	93,4	95,6	91,9	103,5	93,6	86	0,423	0,399	0,0013

# TM30 DETAILS

**Rf 91,9**  
Fidelity index Rf

**Rg 103,5**  
Gammut index

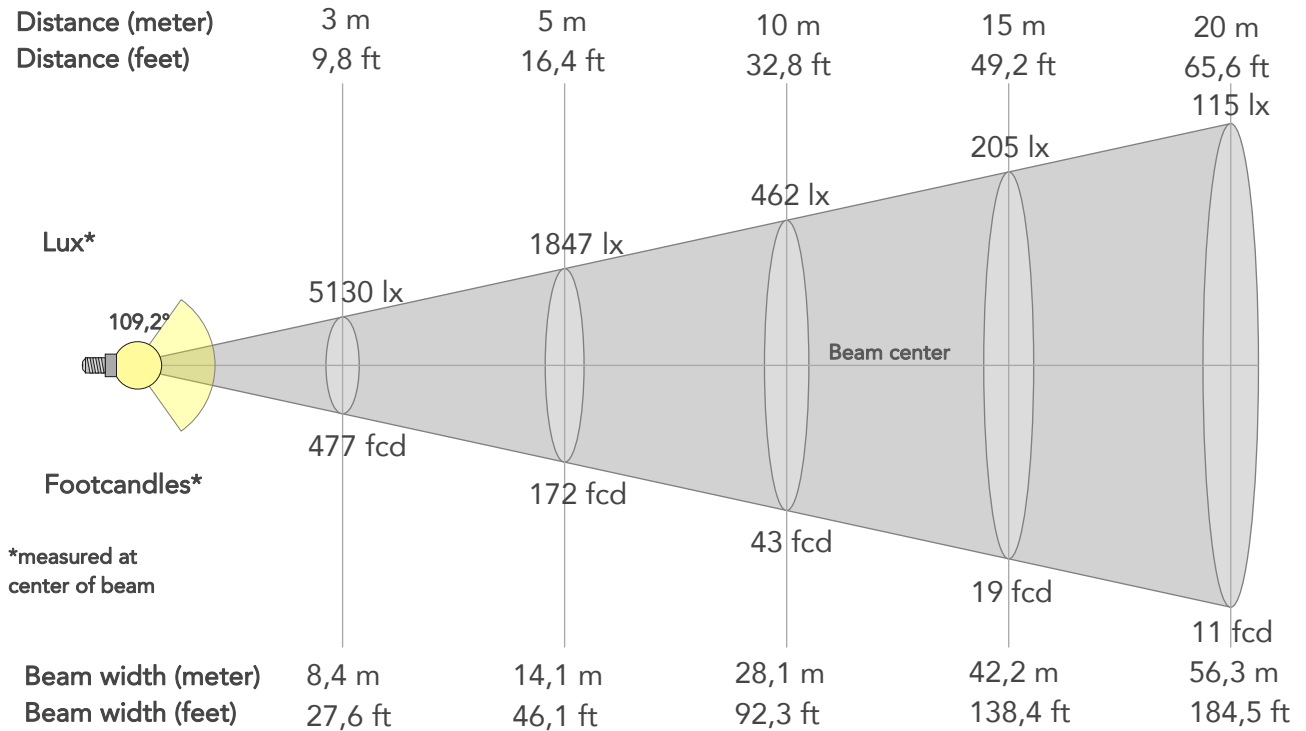
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	0%
2	94	2%	-2%
3	92	1%	-2%
4	93	-3%	-3%
5	92	-4%	2%
6	91	3%	5%
7	90	3%	4%
8	89	7%	-1%
9	93	4%	1%
10	95	2%	2%
11	93	3%	3%
12	88	6%	-4%
13	91	2%	-7%
14	91	3%	-5%
15	90	1%	-2%
16	89	3%	-7%



# BEAM DETAILS



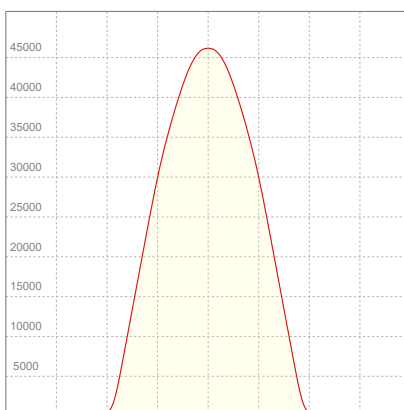
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
109,2°	158,5°	171,9°	80,1%	55,0%



## 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	46171lx	11543lx	5130lx	2886lx	1847lx	821lx	462lx	205lx	115lx	74lx	51lx	29lx	18lx
Footcand.	4289fcd	1072fcd	477fcd	268fcd	172fcd	76fcd	43fcd	19fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	2,8m	5,6m	8,4m	11,3m	14,1m	21,1m	28,1m	42,2m	56,3m	70,3m	84,4m	112,5m	140,6m
Beam wid.	9,3ft	18,6ft	27,6ft	36,8ft	46,1ft	69,2ft	92,3ft	138,4ft	184,5ft	230,6ft	276,8ft	369ft	461,3ft

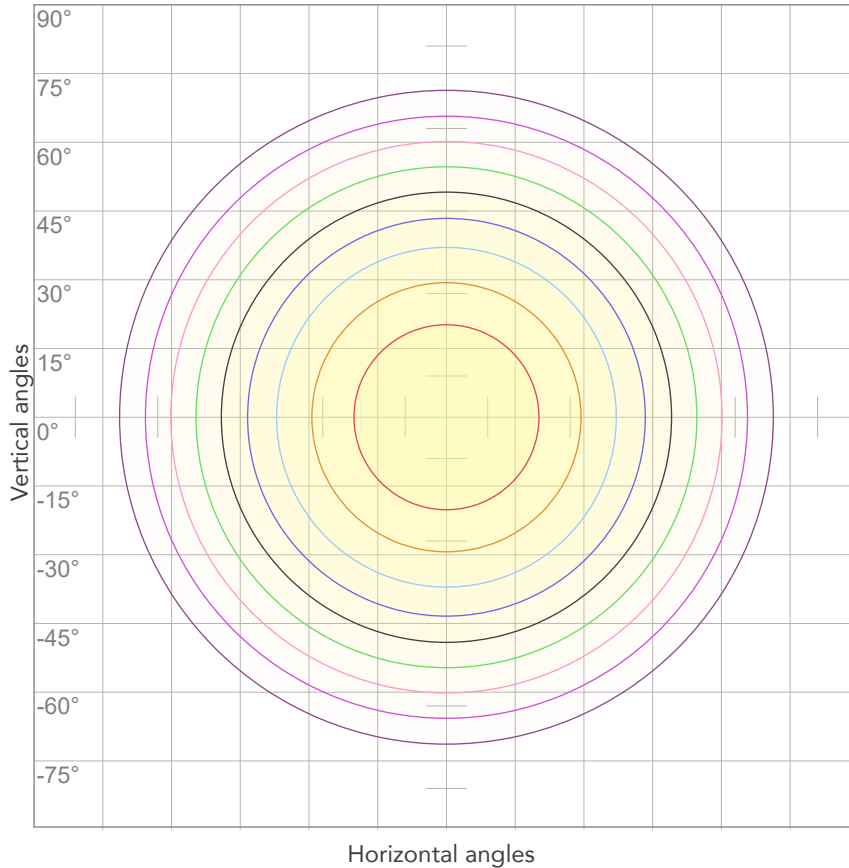
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,97A	1508W	70lm/W

## ISO CANDELA DIAGRAM



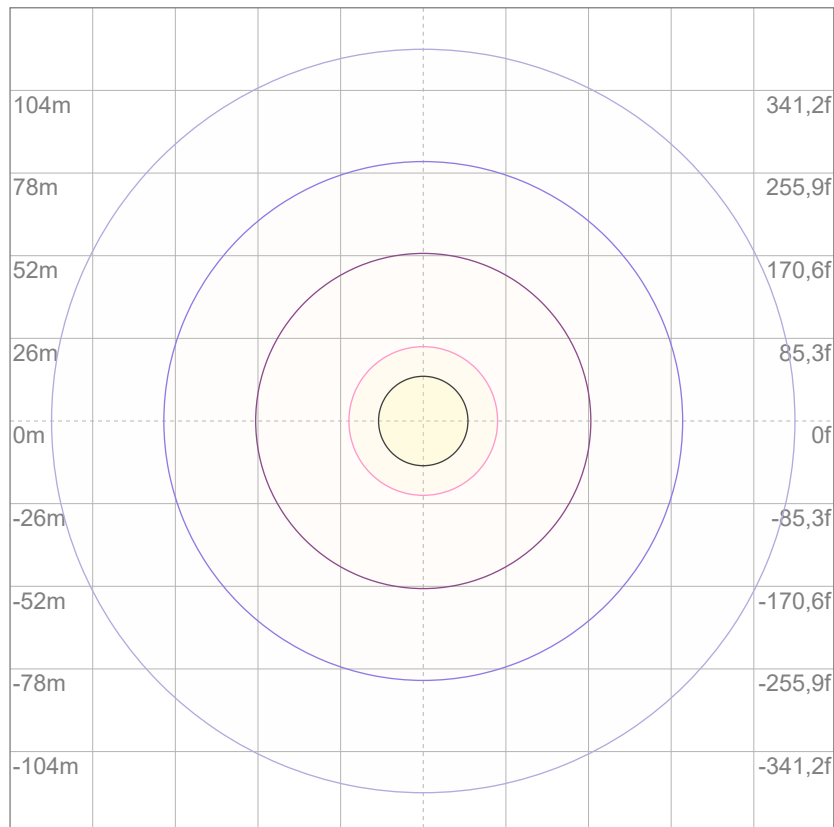
10%	4617 cd
20%	9234 cd
30%	13851 cd
40%	18469 cd
50%	23086 cd
60%	27703 cd
70%	32320 cd
80%	36937 cd

Conditions:

Number of c-planes: 2

Candela at center: 46171 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	13,9 lx
5%	23,1 lx
10%	46,2 lx
30%	139 lx
50%	231 lx

Conditions:

Number of c-planes: 2

Lux at center: 462 lx

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



Total lumen output:

130725 lm

Peak candela output:

49095 cd

Light quality:

CRI: 93,4

Color temperature:

3218 K

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter LD

Target:

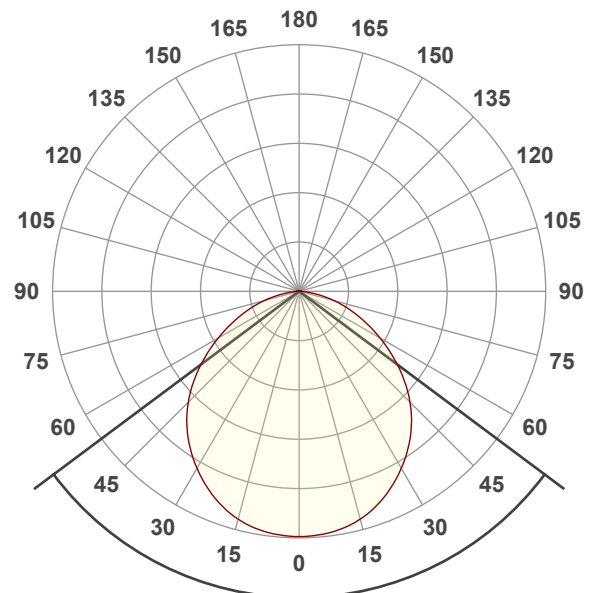
3200K

Operator:

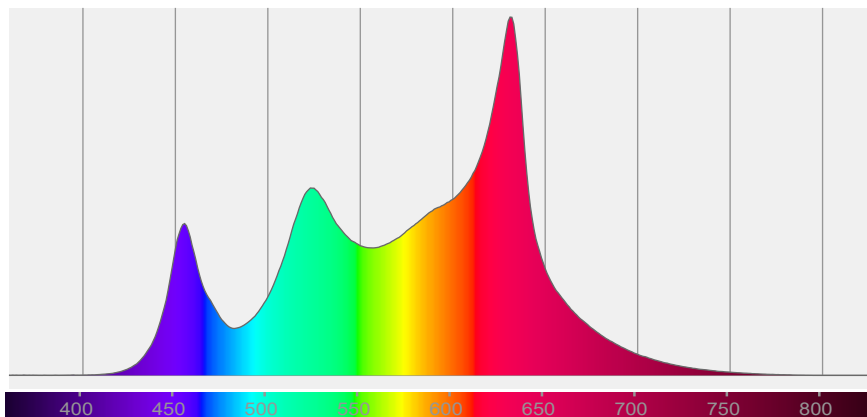
Paolo Carvone

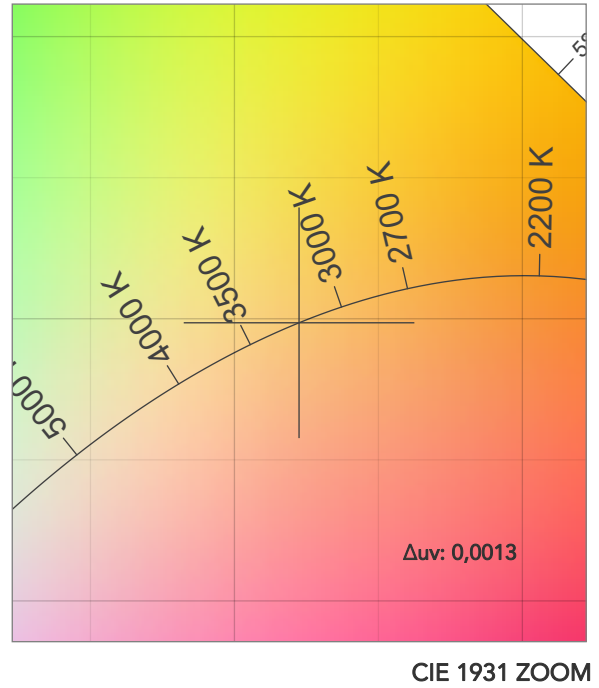
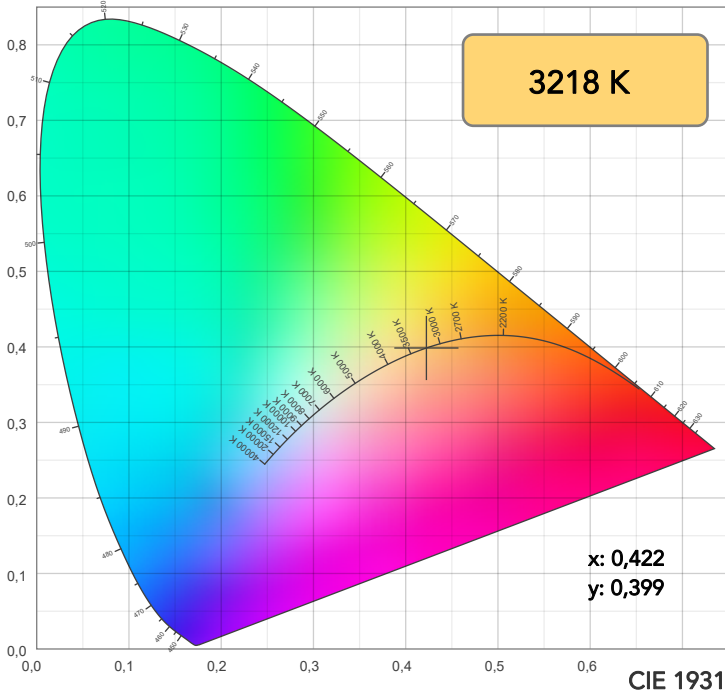
Date and time:

09/06/2022 11:46:28

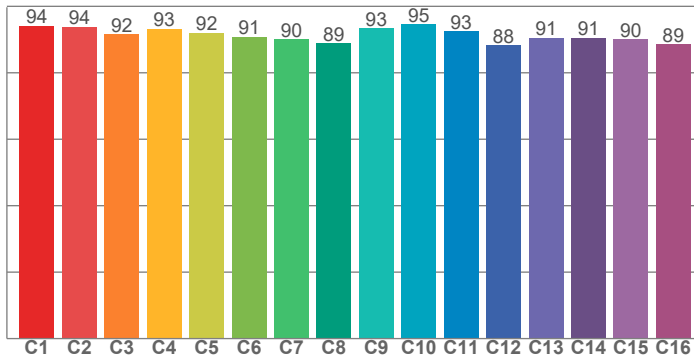


Spectra

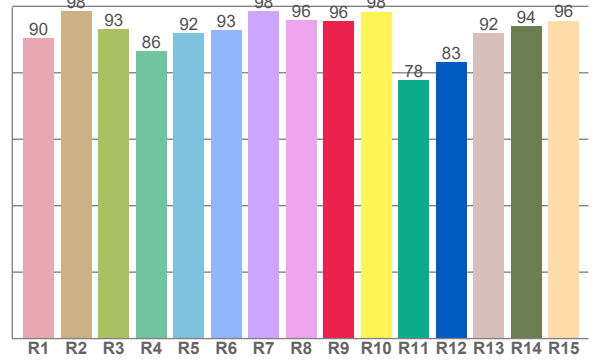




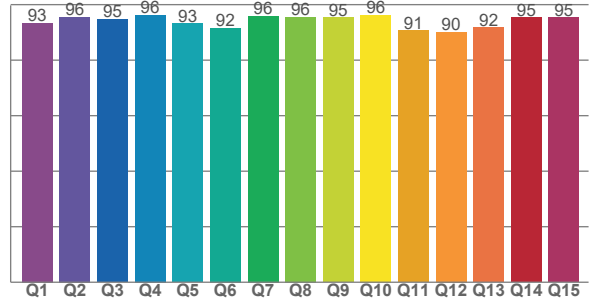
TM30: 91,9



CRI: 93,4 (R1-R8)



CQS: 93,7



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
90,4	98,4	93,0	86,4	91,9	92,9	98,5	95,8	95,5	98,4	77,7	83,2	91,9	94,0	95,6

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
94,0	93,9	91,6	93,2	92,0	90,8	90,0	88,8	93,3	94,6	92,5	88,3	90,6	90,6	90,1	88,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,3	95,5	94,7	96,3	93,1	91,6	95,9	95,5	95,3	96,2	90,6	90,1	91,7	95,4	95,4

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3218 K	93,4	95,5	91,9	103,5	93,7	86	0,422	0,399	0,0013

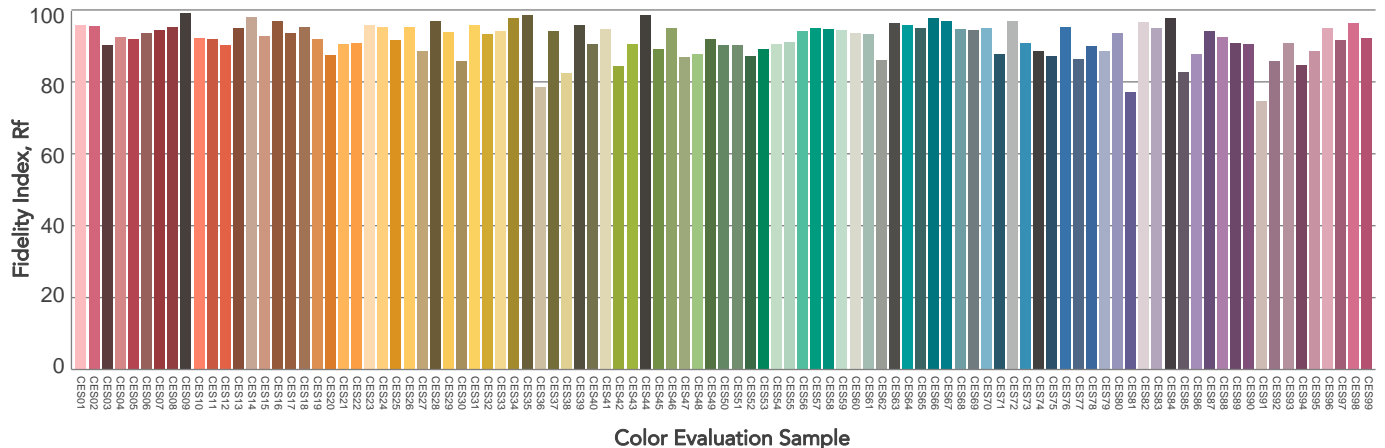
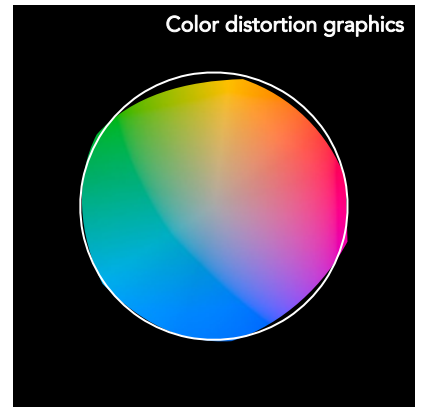
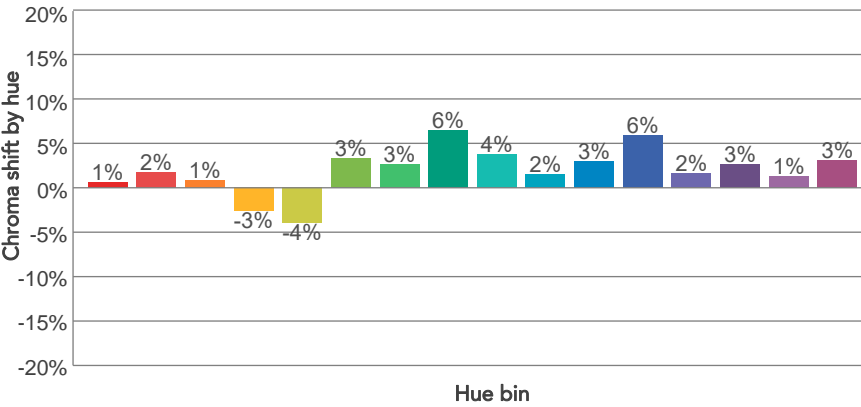
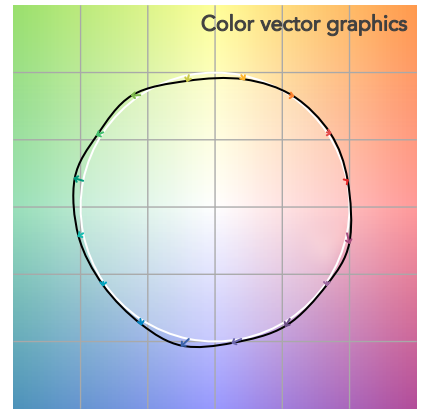
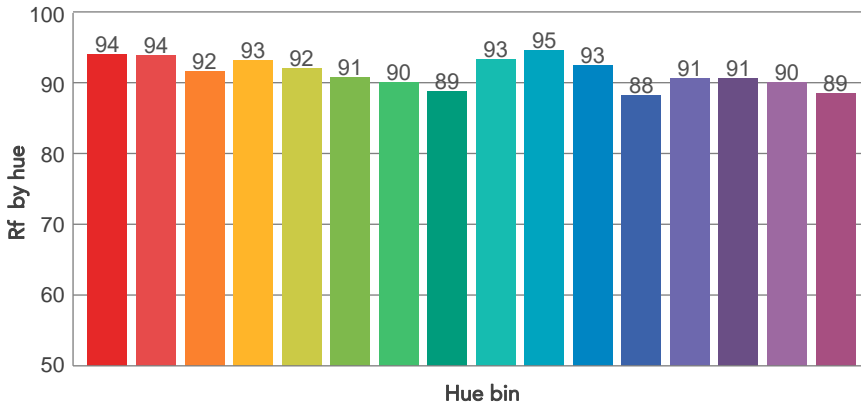
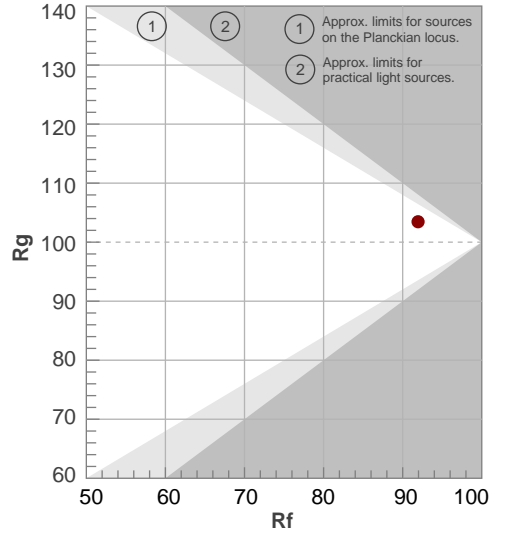


# TM30 DETAILS

**Rf 91,9**  
Fidelity index Rf

**Rg 103,5**  
Gammut index

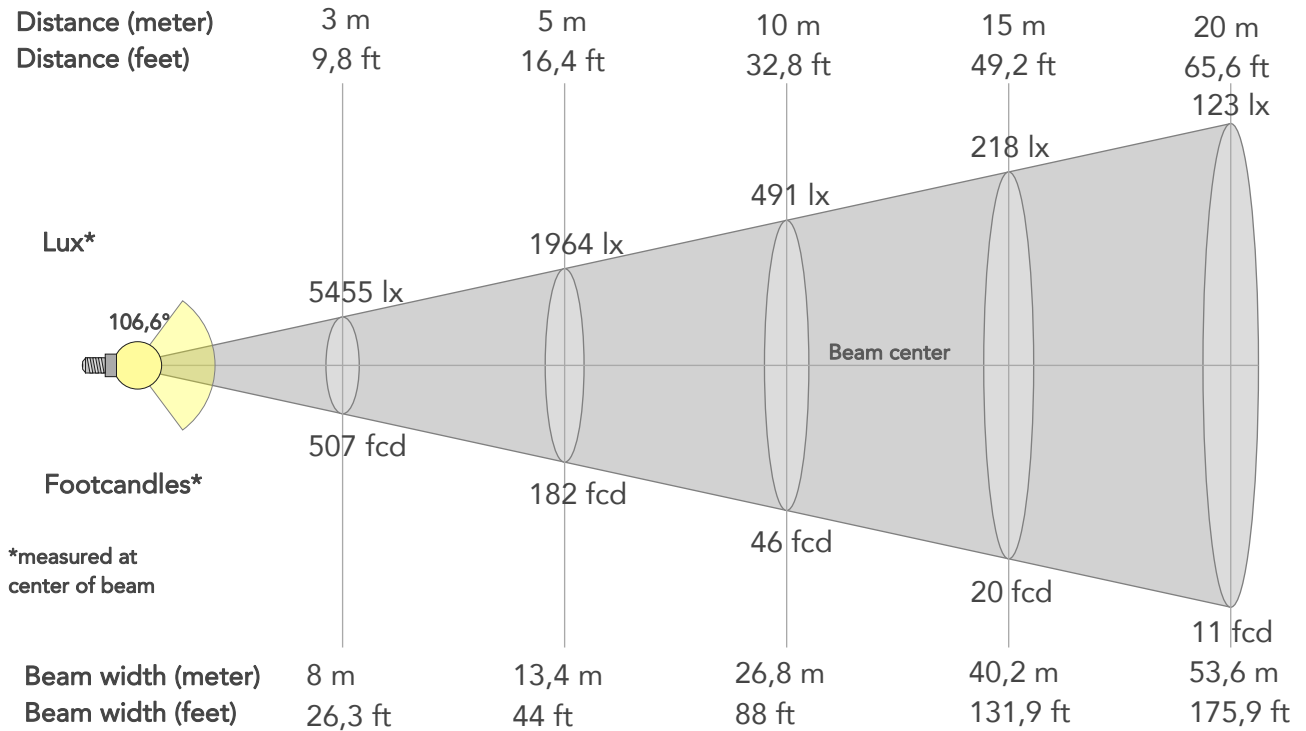
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	0%
2	94	2%	-2%
3	92	1%	-2%
4	93	-3%	-3%
5	92	-4%	2%
6	91	3%	5%
7	90	3%	4%
8	89	6%	-1%
9	93	4%	1%
10	95	2%	2%
11	93	3%	3%
12	88	6%	-4%
13	91	2%	-7%
14	91	3%	-5%
15	90	1%	-2%
16	89	3%	-7%



# BEAM DETAILS



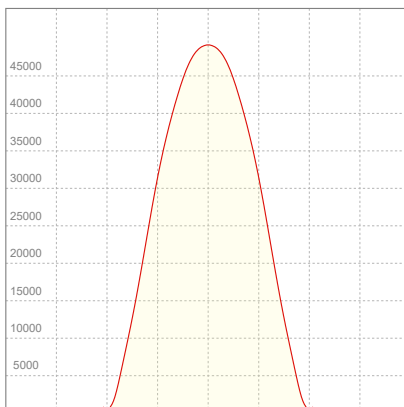
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
106,6°	156,9°	171,2°	81,6%	56,8%



## 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	49095lx	12274lx	5455lx	3068lx	1964lx	873lx	491lx	218lx	123lx	79lx	55lx	31lx	20lx
Footcand.	4561fcd	1140fcd	507fcd	285fcd	182fcd	81fcd	46fcd	20fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	2,7m	5,4m	8m	10,7m	13,4m	20,1m	26,8m	40,2m	53,6m	67m	80,4m	107,3m	134,1m
Beam wid.	8,8ft	17,7ft	26,3ft	35,1ft	44ft	66ft	88ft	131,9ft	175,9ft	219,9ft	263,9ft	351,8ft	439,8ft

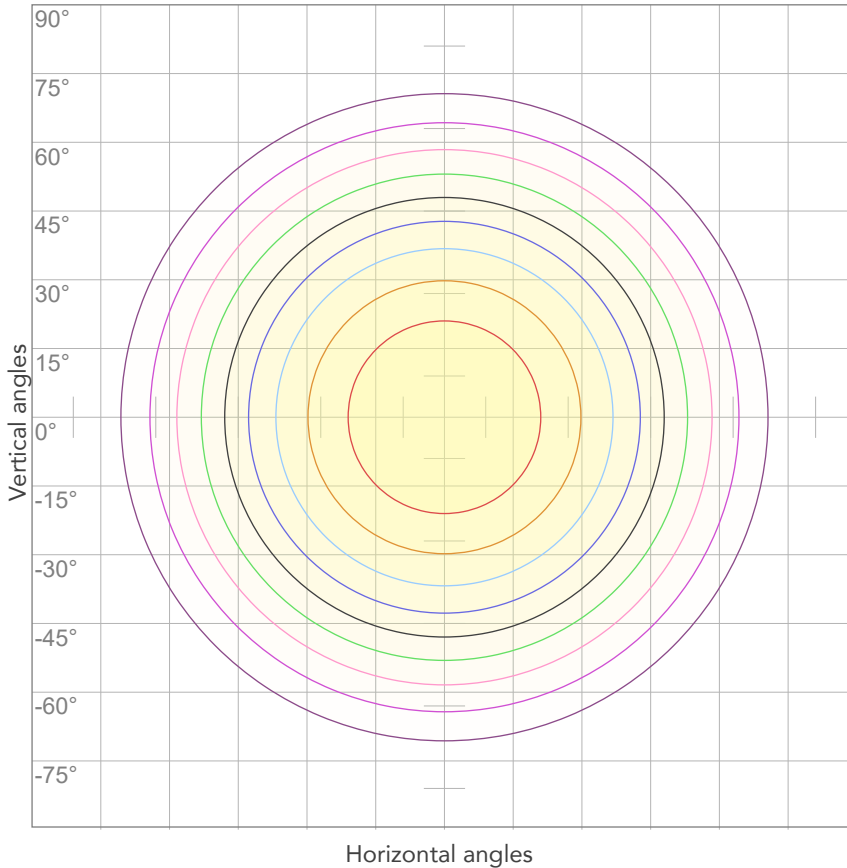
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,97A	1508W	70lm/W

## ISO CANDELA DIAGRAM



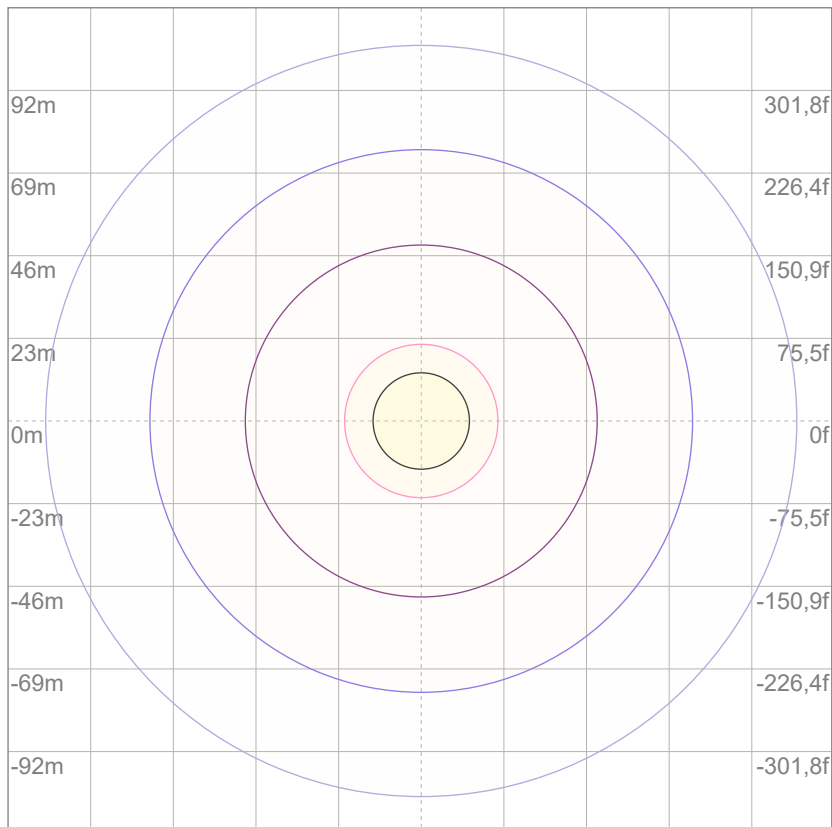
10%	4910 cd
20%	9819 cd
30%	14729 cd
40%	19638 cd
50%	24548 cd
60%	29457 cd
70%	34367 cd
80%	39276 cd

Conditions:

Number of c-planes: 2

Candela at center: 49095 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	14,7 lx
5%	24,5 lx
10%	49,1 lx
30%	147 lx
50%	245 lx

Conditions:

Number of c-planes: 2

Lux at center: 491 lx

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



Total lumen output:

100393 lm

Peak candela output:

61055 cd

Light quality:

CRI: 93,5

Color temperature:

3216 K

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter INT

Target:

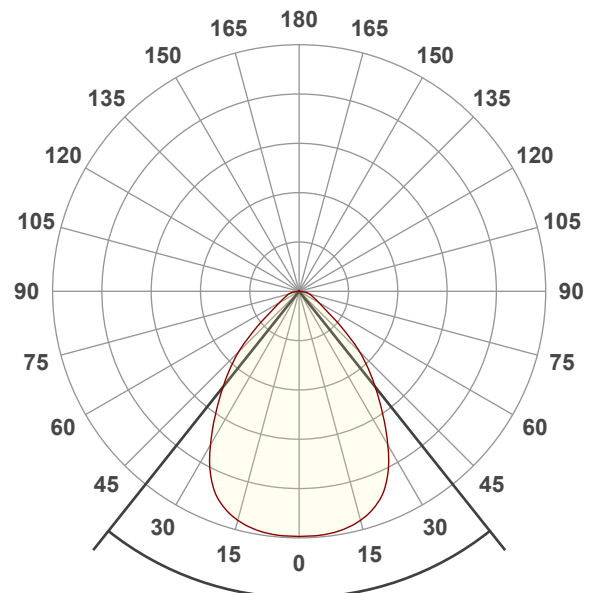
3200K

Operator:

Paolo Carvone

Date and time:

24/06/2022 09:14:13

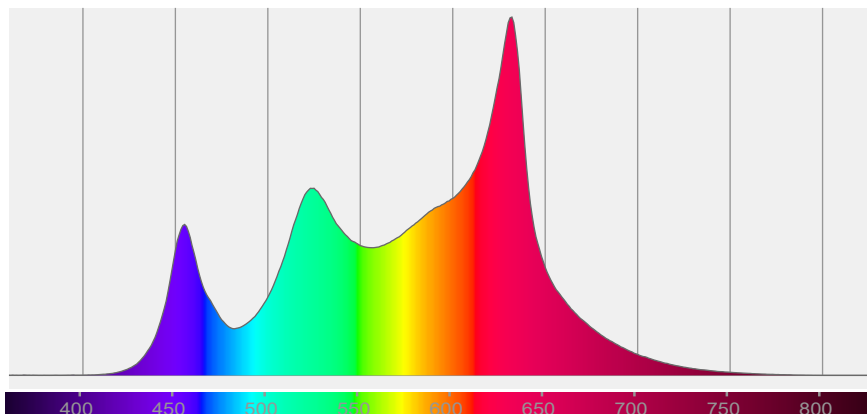


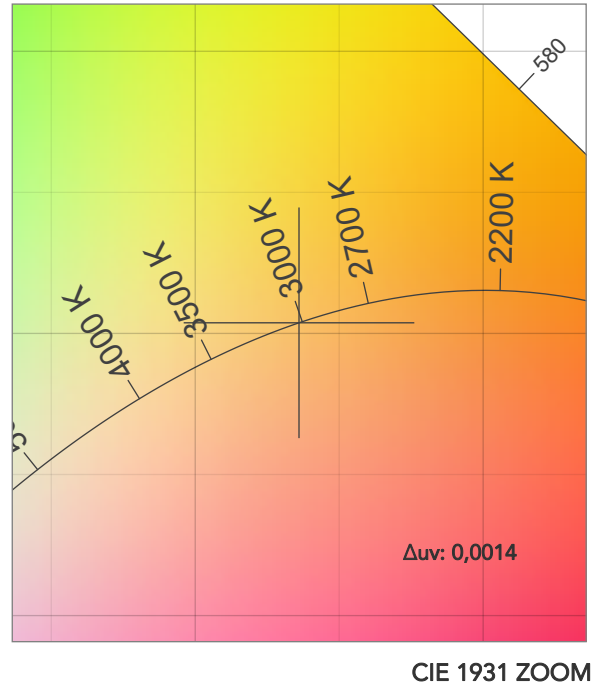
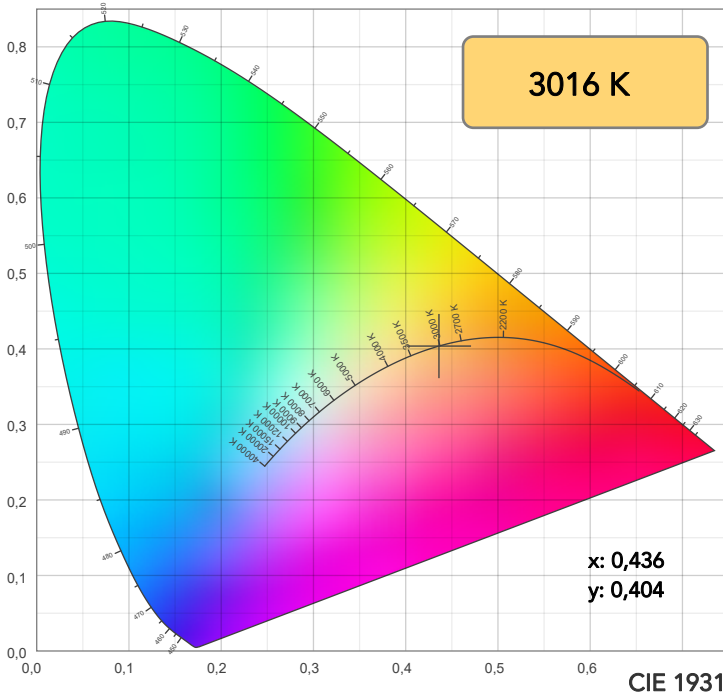
Beam angle 50%: 77°

Field angle 10%: 117,8°

Cut off angle 2.5%: 165,7°

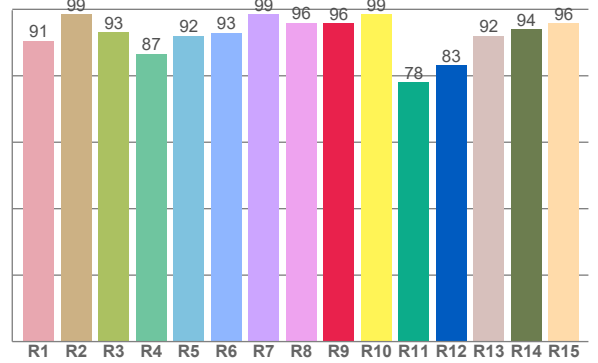
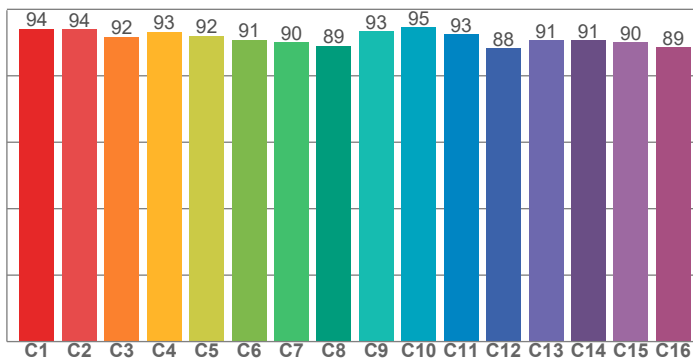
Spectra





TM30: 92,0

CRI: 93,5 (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
90,5	98,5	93,0	86,6	92,1	93,0	98,5	95,9	95,8	98,6	78,0	83,1	92,1	94,0	95,8

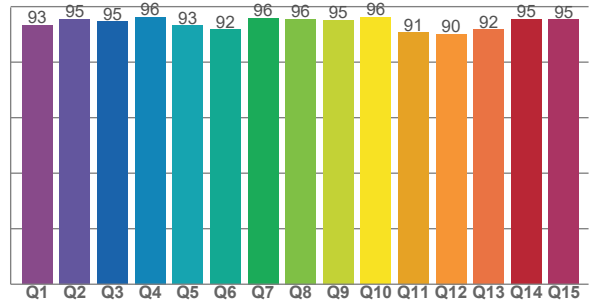
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 93,7



COLOR PARAMETERS

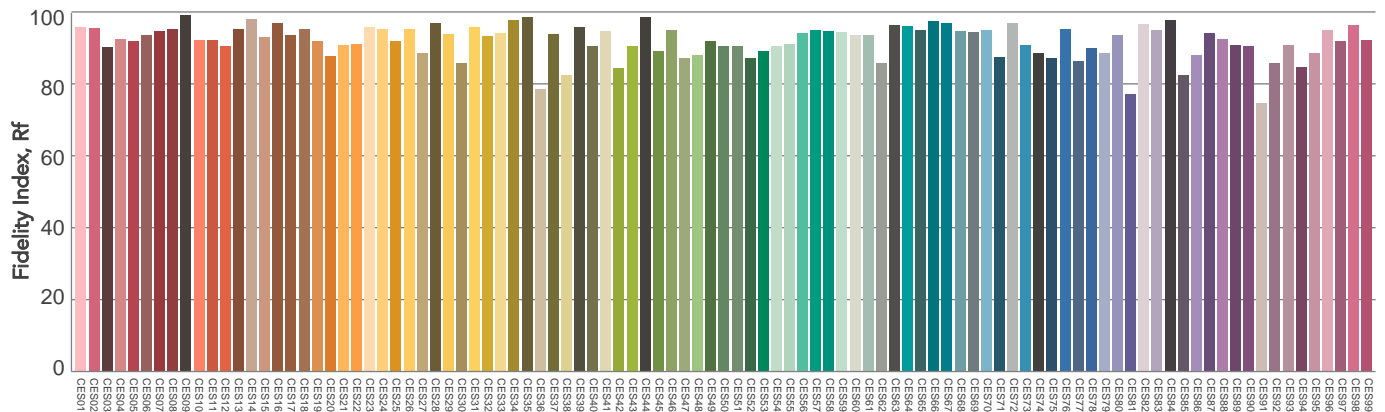
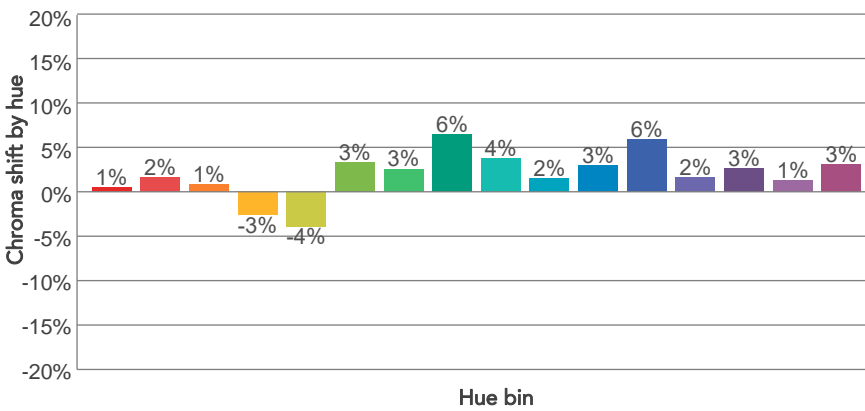
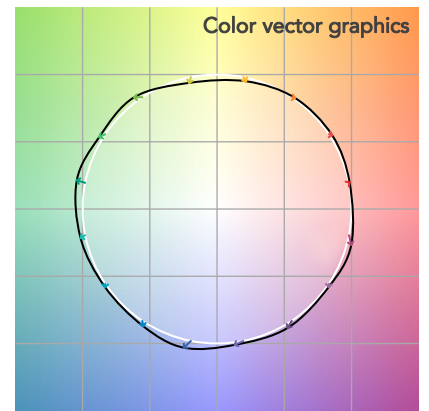
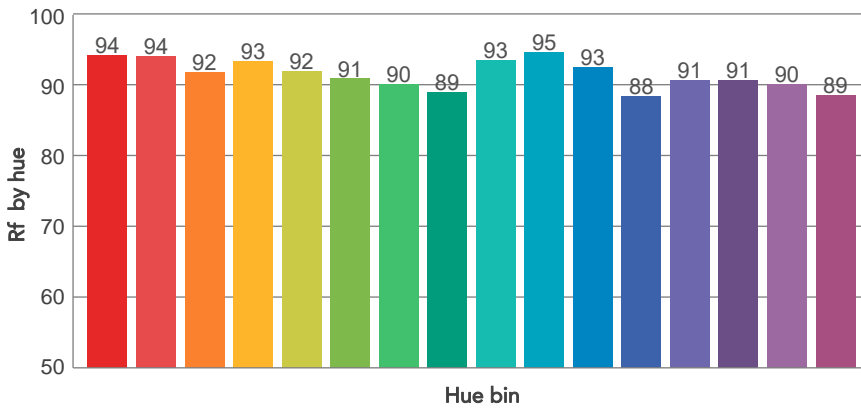
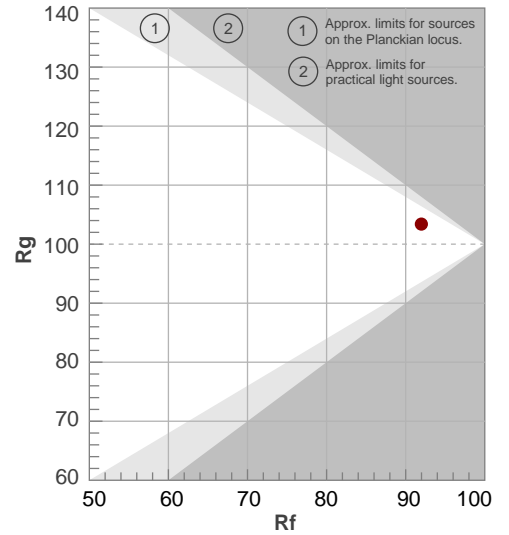
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3016 K	93,5	95,8	92,0	103,4	93,7	82	0,436	0,404	0,0014

# TM30 DETAILS

**Rf 92,0**  
Fidelity index Rf

**Rg 103,4**  
Gammut index

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

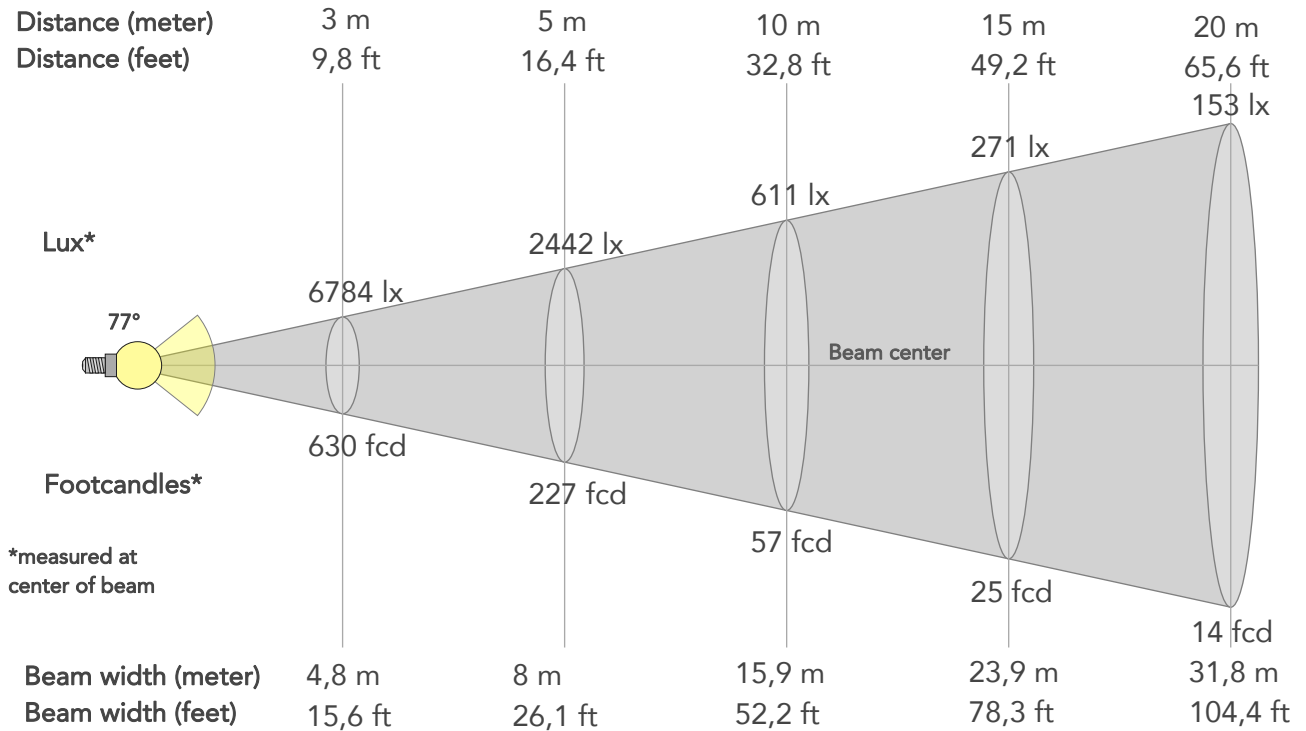


Color Evaluation Sample

# BEAM DETAILS



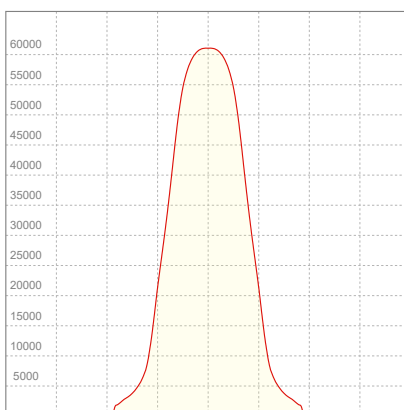
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
77°	117,8°	165,7°	91,9%	77,1%



## 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	61055lx	15264lx	6784lx	3816lx	2442lx	1085lx	611lx	271lx	153lx	98lx	68lx	38lx	24lx
Footcand.	5672fcd	1418fcd	630fcd	355fcd	227fcd	101fcd	57fcd	25fcd	14fcd	9fcd	6fcd	4fcd	2fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	8m	11,9m	15,9m	23,9m	31,8m	39,8m	47,7m	63,7m	79,6m
Beam wid.	5,3ft	10,5ft	15,6ft	20,8ft	26,1ft	39,2ft	52,2ft	78,3ft	104,4ft	130,5ft	156,6ft	208,8ft	261ft

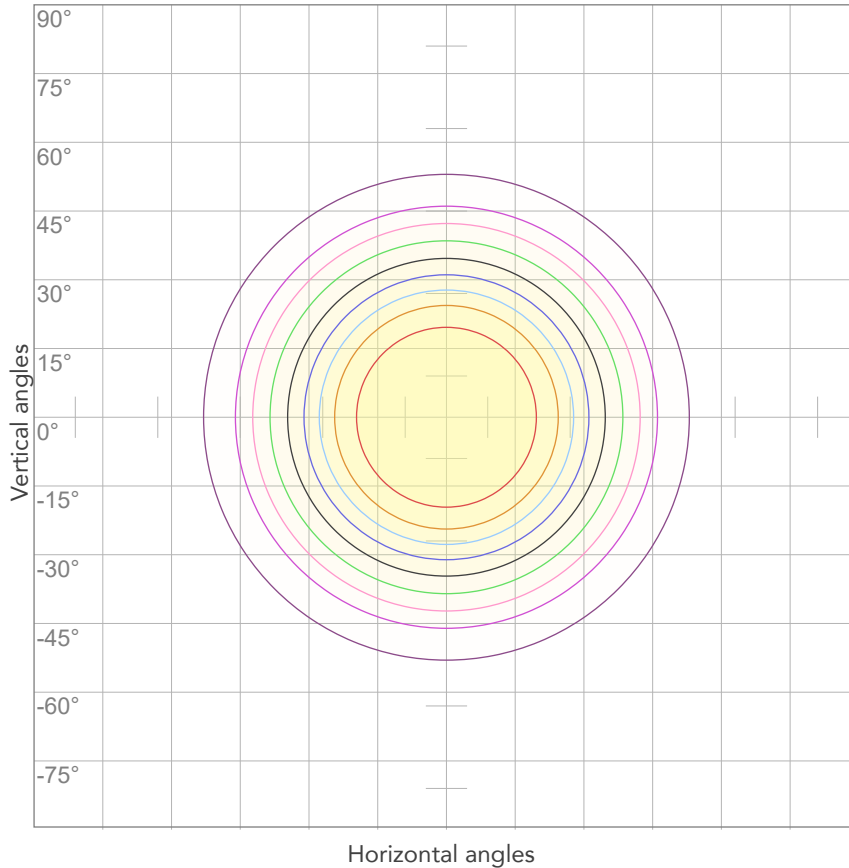
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6.97A	1508W	70lm/W

## ISO CANDELA DIAGRAM



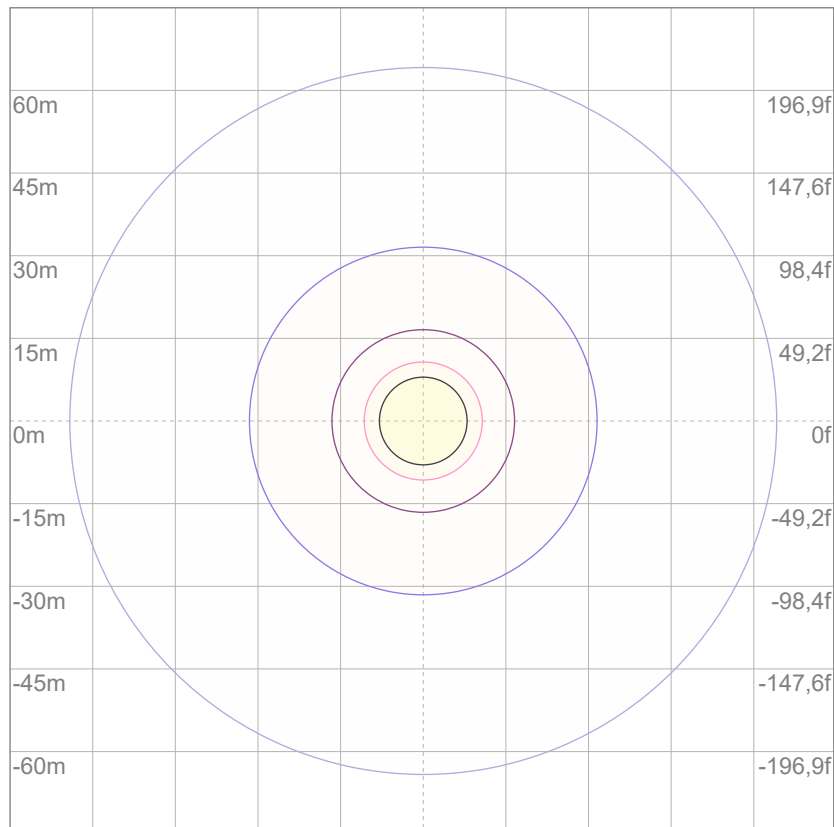
10%	6105 cd
20%	12211 cd
30%	18316 cd
40%	24422 cd
50%	30527 cd
60%	36633 cd
70%	42738 cd
80%	48844 cd

Conditions:

Number of c-planes: 2

Candela at center: 61055 cd

## ISO LUX DIAGRAM



3%	18,3 lx
5%	30,5 lx
10%	61,1 lx
30%	183 lx
50%	305 lx

Conditions:

Number of c-planes: 2

Lux at center: 611 lx

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





Total lumen output:

106951 lm

Peak candela output:

36358 cd

Light quality:

CRI: 92,8

Color temperature:

4005 K

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASURAMENT CONDITIONS:**

Beam angle:

Filter HD

Target:

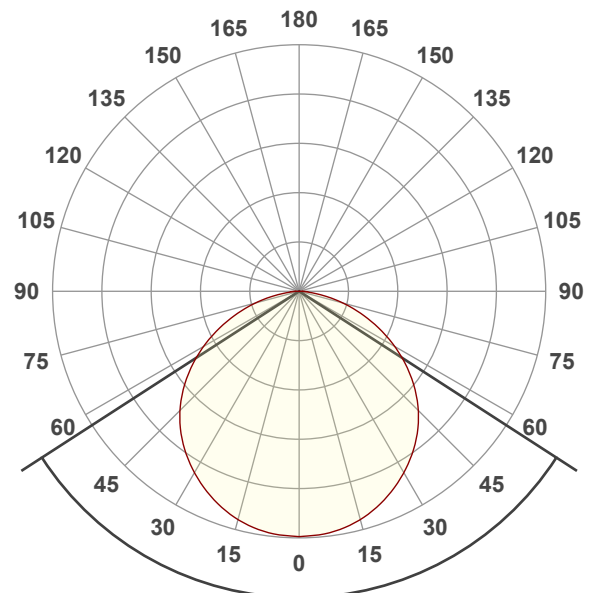
4000K

Operator:

Paolo Carvone

Date and time:

09/06/2022 12:29:24

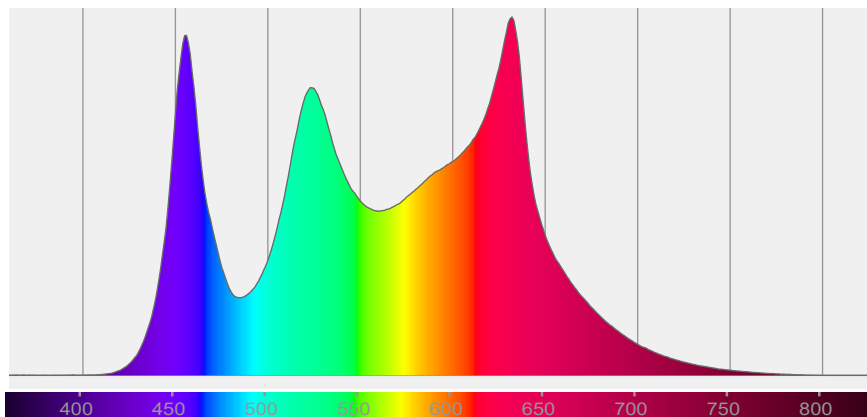


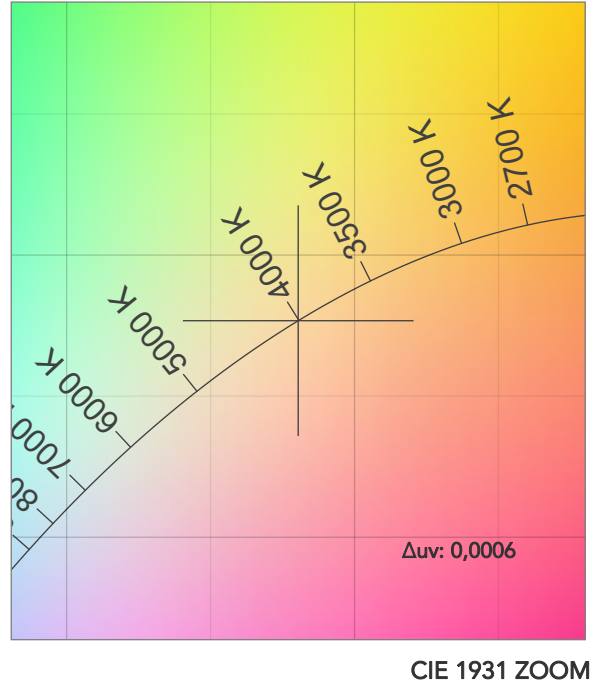
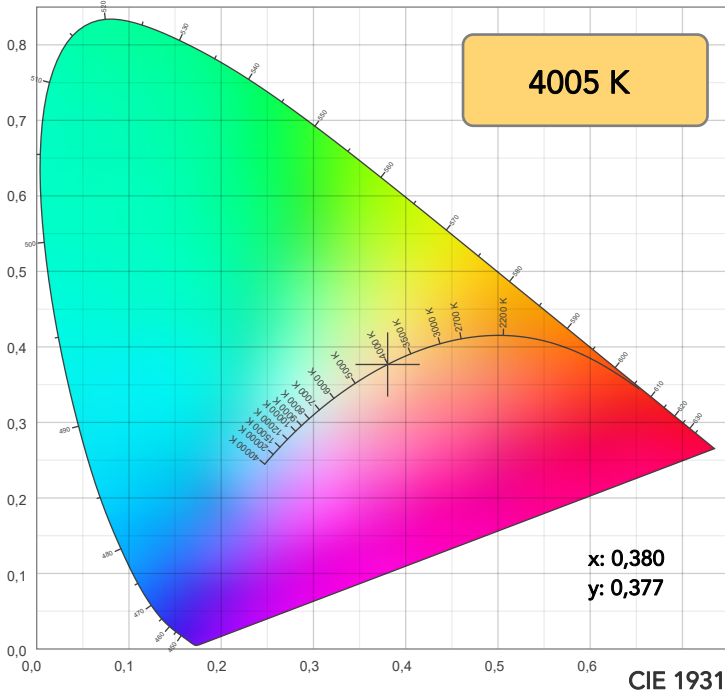
Beam angle 50%: 114,2°

Field angle 10%: 160,2°

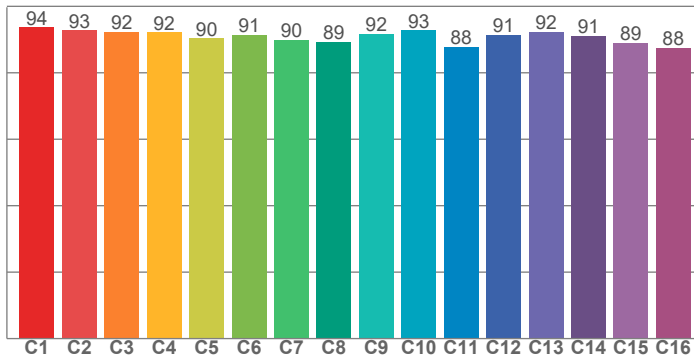
Cut off angle 2.5%: 172,6°

Spectra

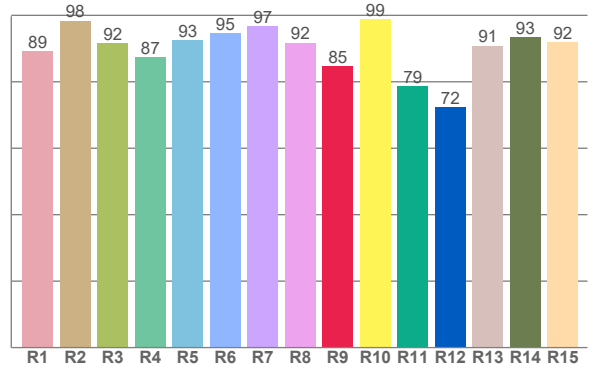




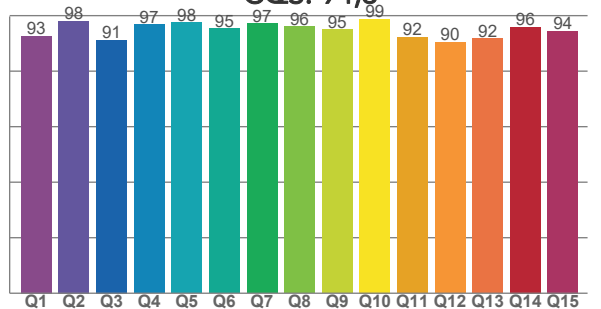
TM30: 91,1



CRI: 92,8 (R1-R8)



CQS: 94,3



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
89,2	98,4	91,7	87,3	92,5	94,6	96,7	91,7	84,6	98,8	78,7	72,2	90,9	93,4	92,0

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
93,7	92,7	92,3	92,1	90,4	91,4	90,0	89,3	91,8	92,8	87,8	91,4	92,3	91,0	89,0	87,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,7	98,1	91,3	96,8	97,5	95,4	97,1	96,1	95,0	98,9	92,2	90,4	91,7	95,9	94,5

COLOR PARAMETERS

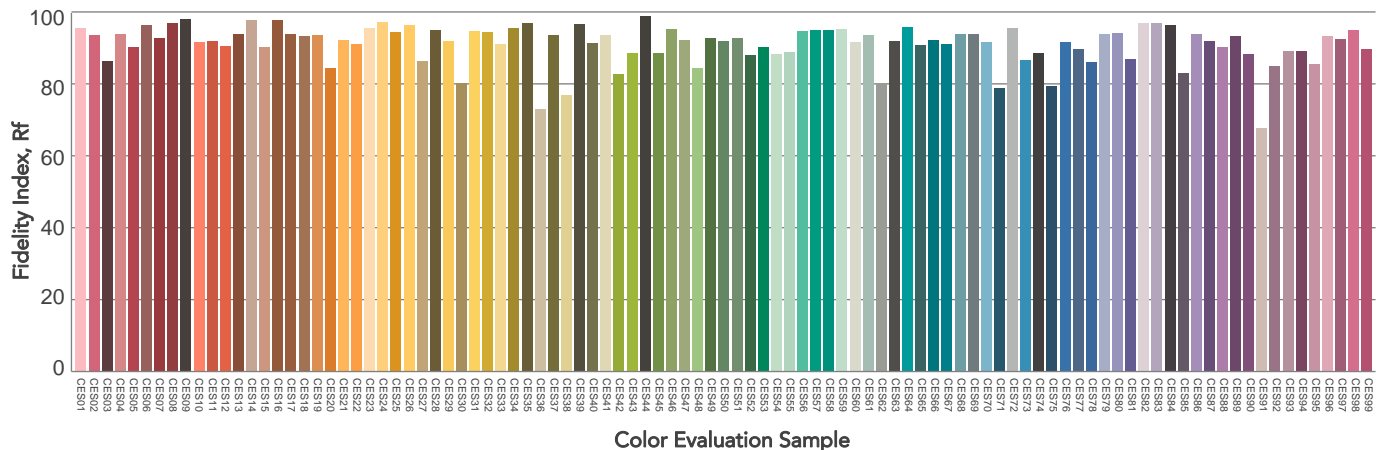
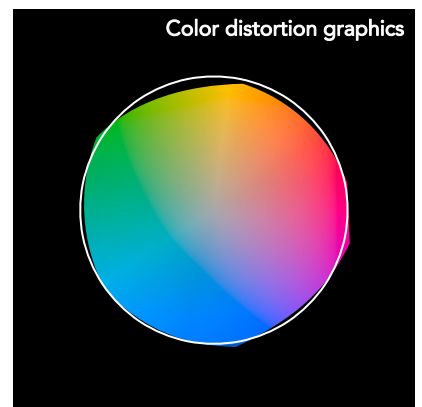
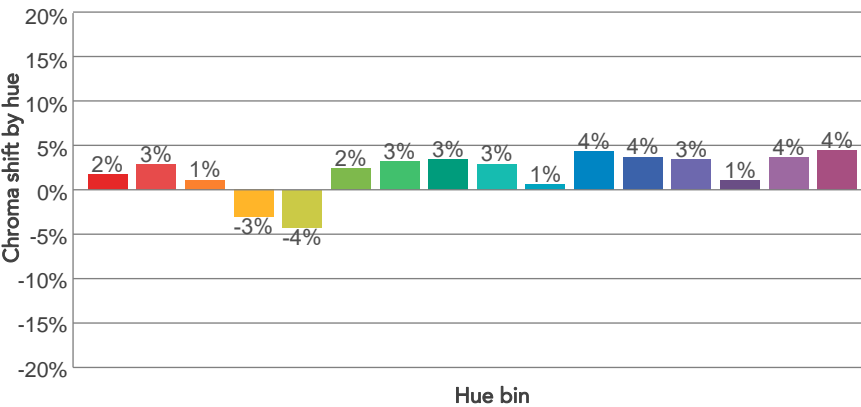
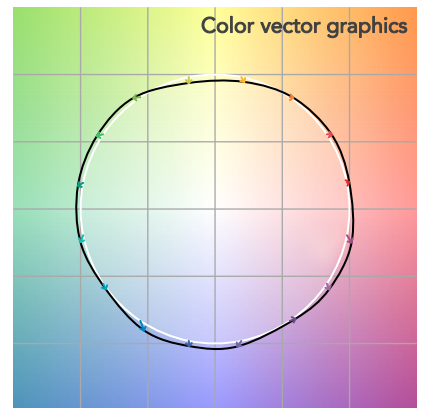
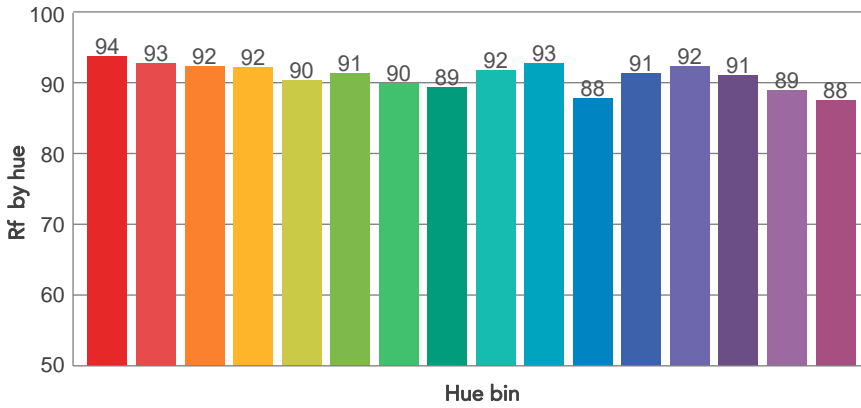
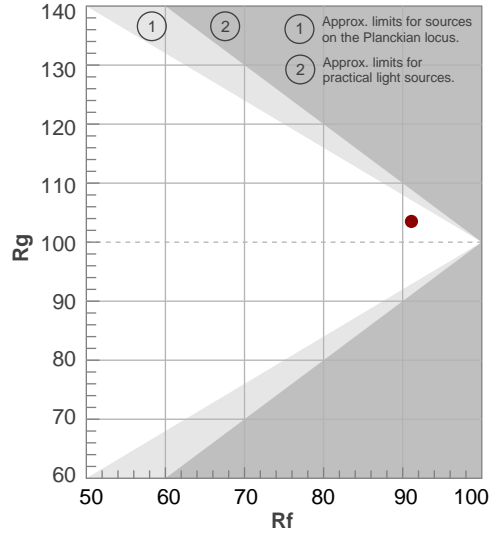
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
4005 K	92,8	84,6	91,1	103,5	94,3	88	0,380	0,377	0,0006

# TM30 DETAILS

**Rf 91,1**  
Fidelity index Rf

**Rg 103,5**  
Gammut index

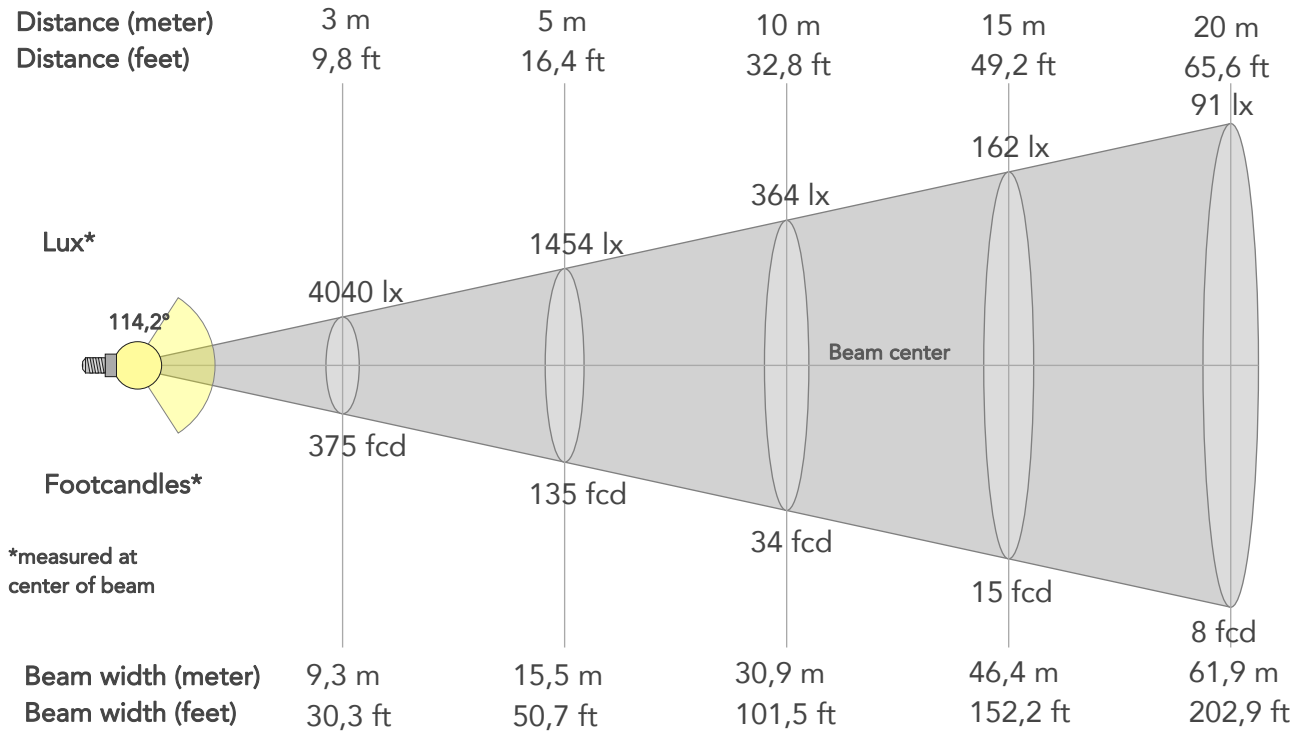
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	2%	0%
2	93	3%	-2%
3	92	1%	-2%
4	92	-3%	-3%
5	90	-4%	1%
6	91	2%	5%
7	90	3%	4%
8	89	3%	3%
9	92	3%	5%
10	93	1%	4%
11	88	4%	6%
12	91	4%	1%
13	92	3%	-4%
14	91	1%	4%
15	89	4%	-3%
16	88	4%	-4%



# BEAM DETAILS



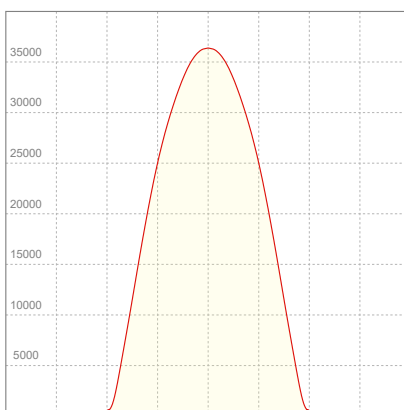
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,2°	160,2°	172,6°	77,9%	52,7%



## 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	36358lx	9090lx	4040lx	2272lx	1454lx	646lx	364lx	162lx	91lx	58lx	40lx	23lx	15lx
Footcand.	3378fcd	844fcd	375fcd	211fcd	135fcd	60fcd	34fcd	15fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	3,1m	6,2m	9,3m	12,4m	15,5m	23,2m	30,9m	46,4m	61,9m	77,3m	92,8m	123,7m	154,7m
Beam wid.	10,2ft	20,4ft	30,3ft	40,5ft	50,7ft	76,1ft	101,5ft	152,2ft	202,9ft	253,7ft	304,4ft	405,9ft	507,4ft

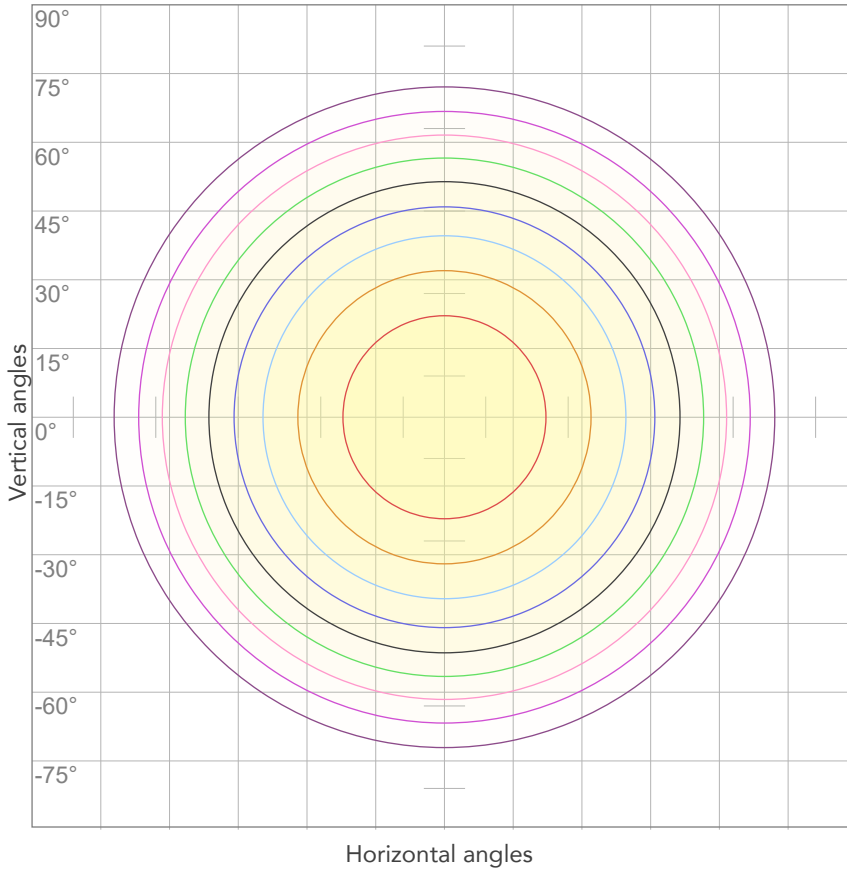
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,98A	1513W	70lm/W

## ISO CANDELA DIAGRAM



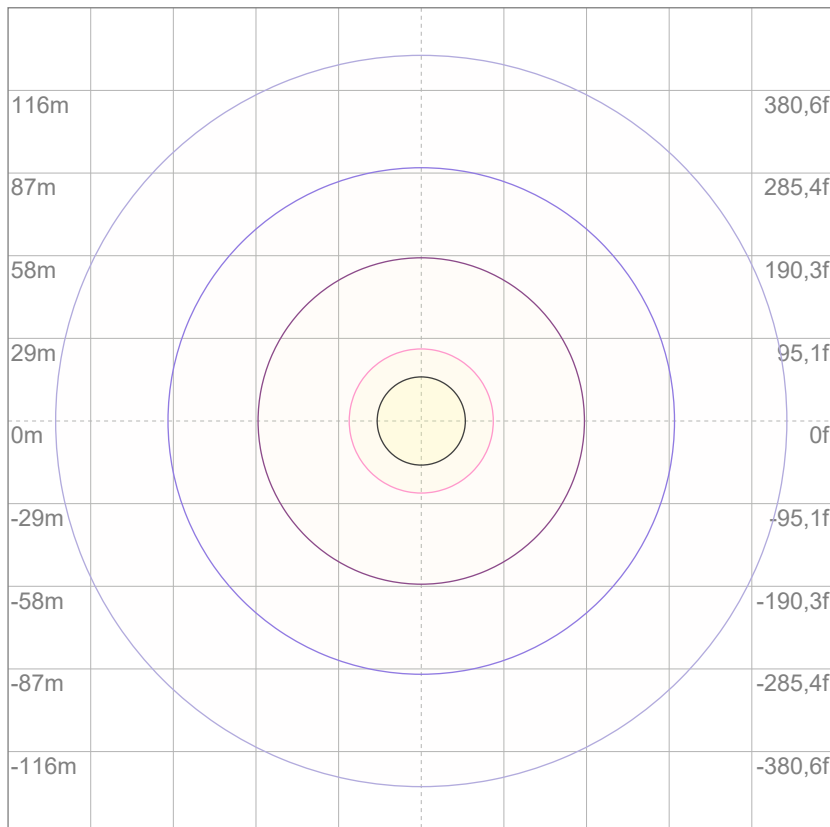
10%	3636 cd
20%	7272 cd
30%	10907 cd
40%	14543 cd
50%	18179 cd
60%	21815 cd
70%	25451 cd
80%	29086 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 36358 cd

## ISO LUX DIAGRAM



3%	10,9 lx
5%	18,2 lx
10%	36,4 lx
30%	109 lx
50%	182 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 364 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

124060 lm

Peak candela output:

45216 cd

Light quality:

CRI: 95,2

Color temperature:

4019 K

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter MD

Target:

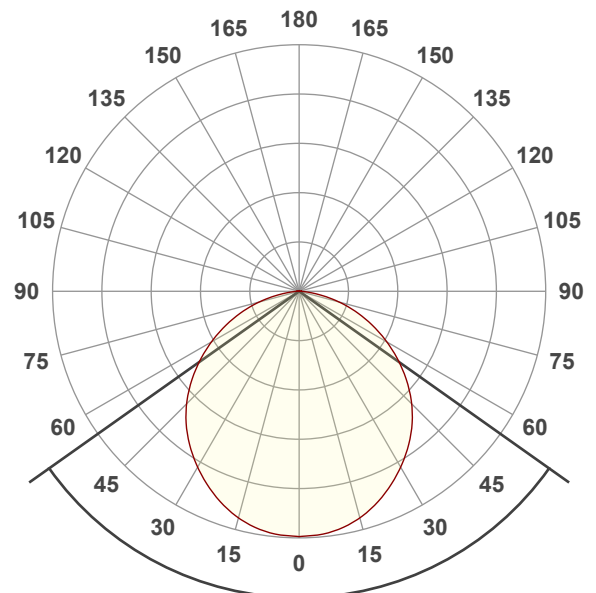
4000K

Operator:

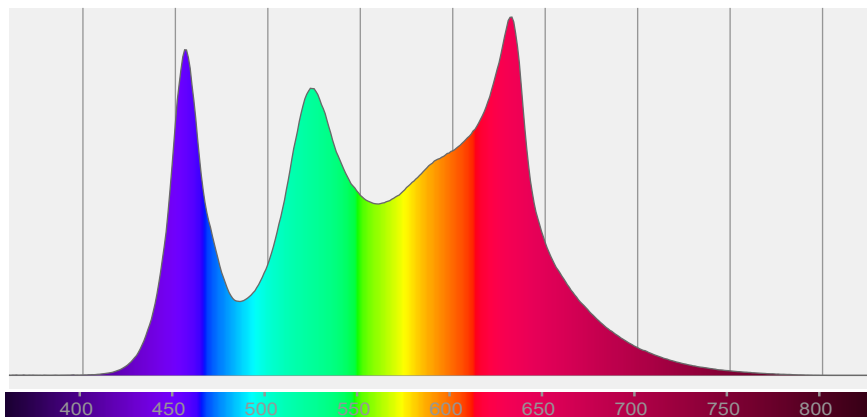
Paolo Carvone

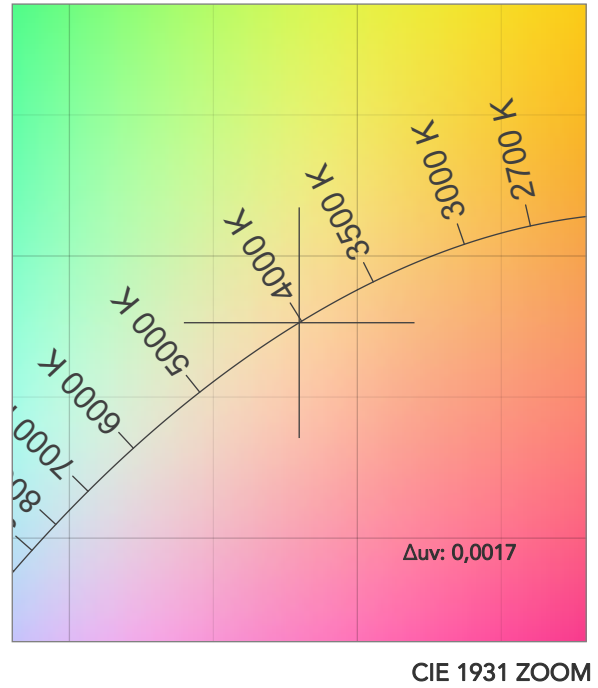
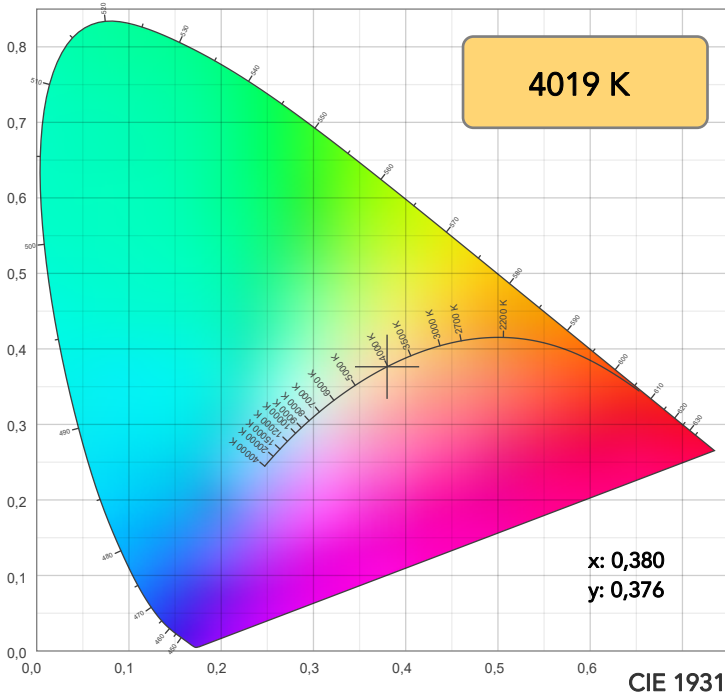
Date and time:

09/06/2022 11:08:34

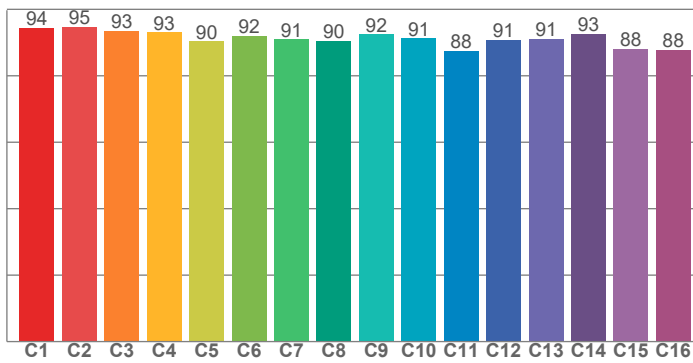


Spectra

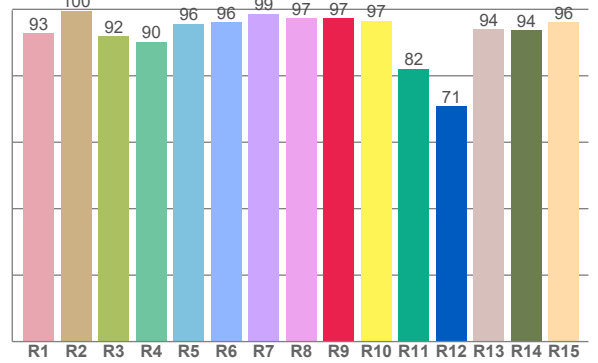




TM30: 91,4



CRI: 95,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,7	99,6	91,8	90,2	95,7	96,0	98,7	97,3	97,3	96,6	82,2	70,9	94,1	93,6	96,2

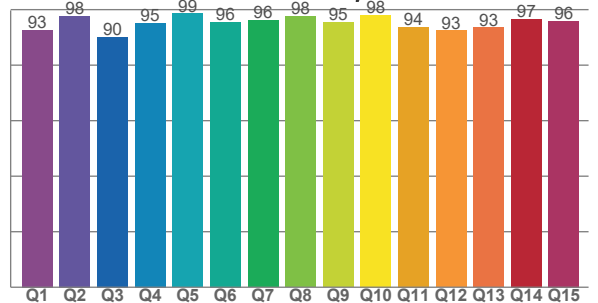
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,6	97,8	90,2	95,3	98,6	95,5	96,1	97,6	95,5	98,1	93,8	92,5	93,5	96,6	95,9

CQS: 94,8



COLOR PARAMETERS

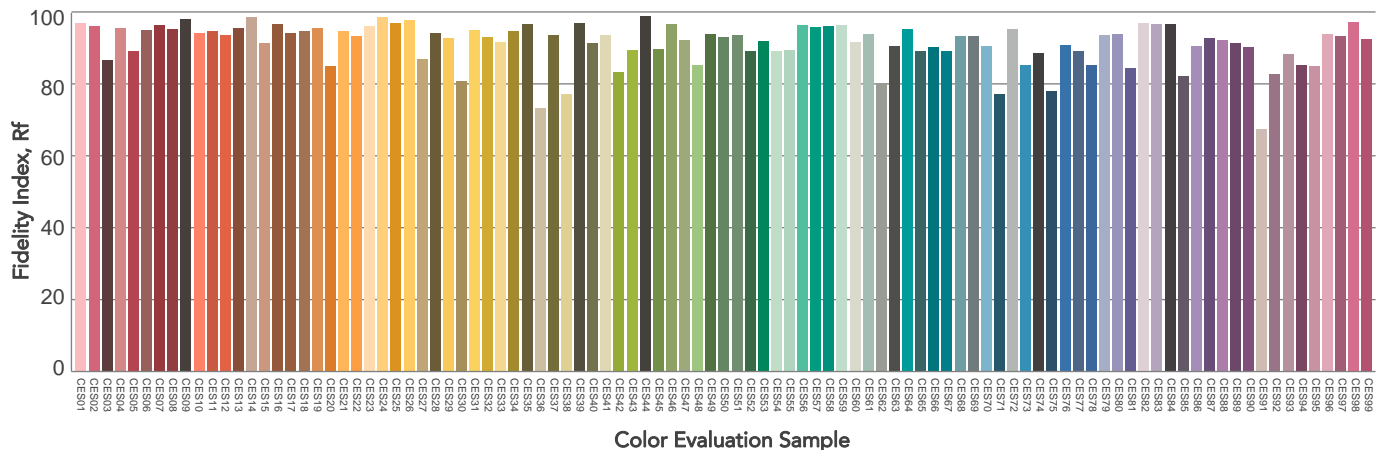
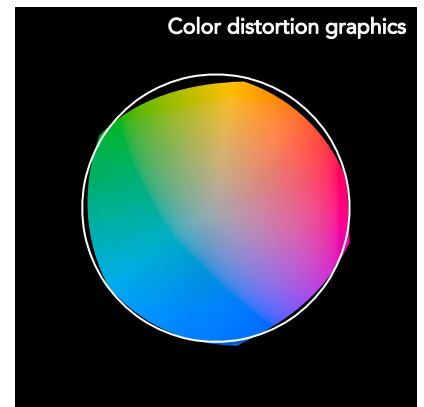
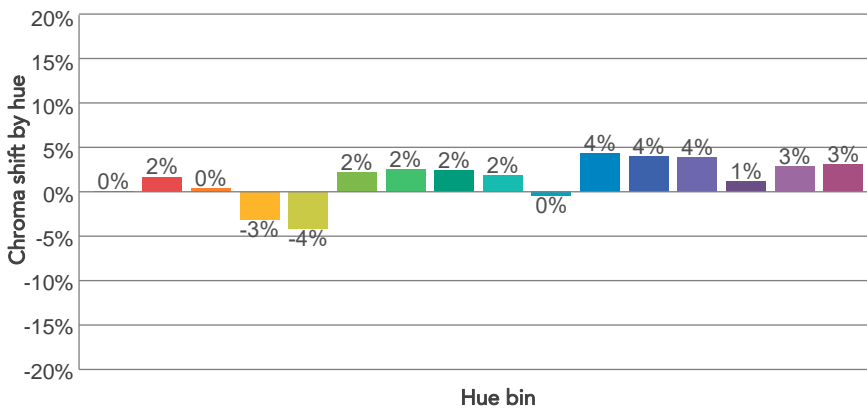
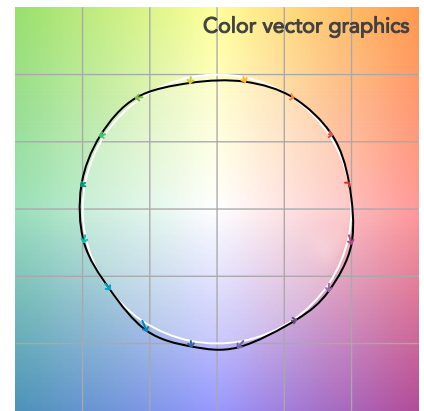
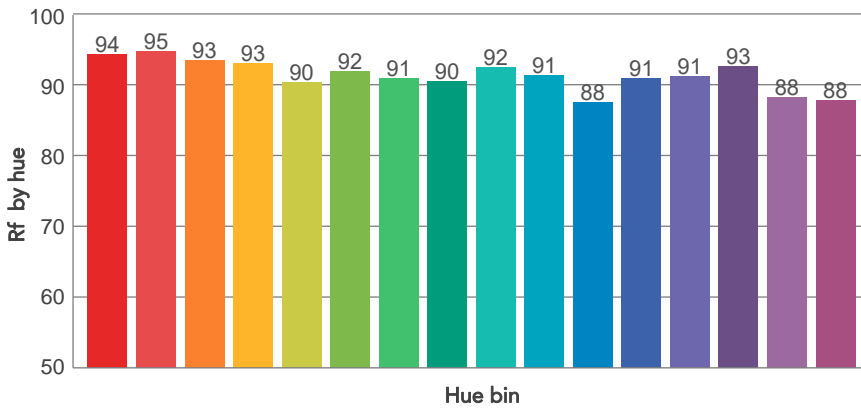
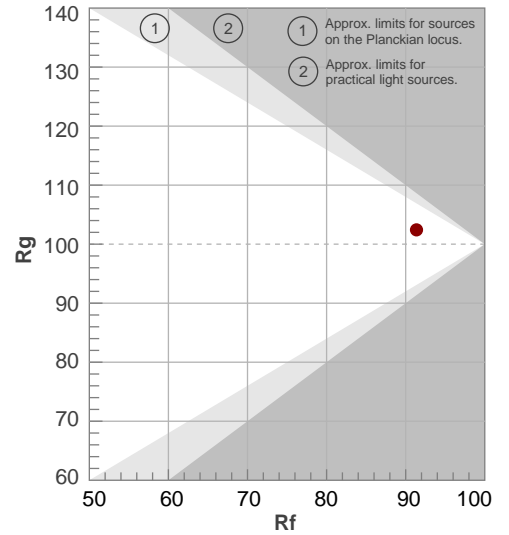
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4019 K	95,2	97,3	91,4	102,4	94,8	89	0,380	0,376	0,0017

# TM30 DETAILS

**Rf 91,4**  
Fidelity index Rf

**Rg 102,4**  
Gammut index

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

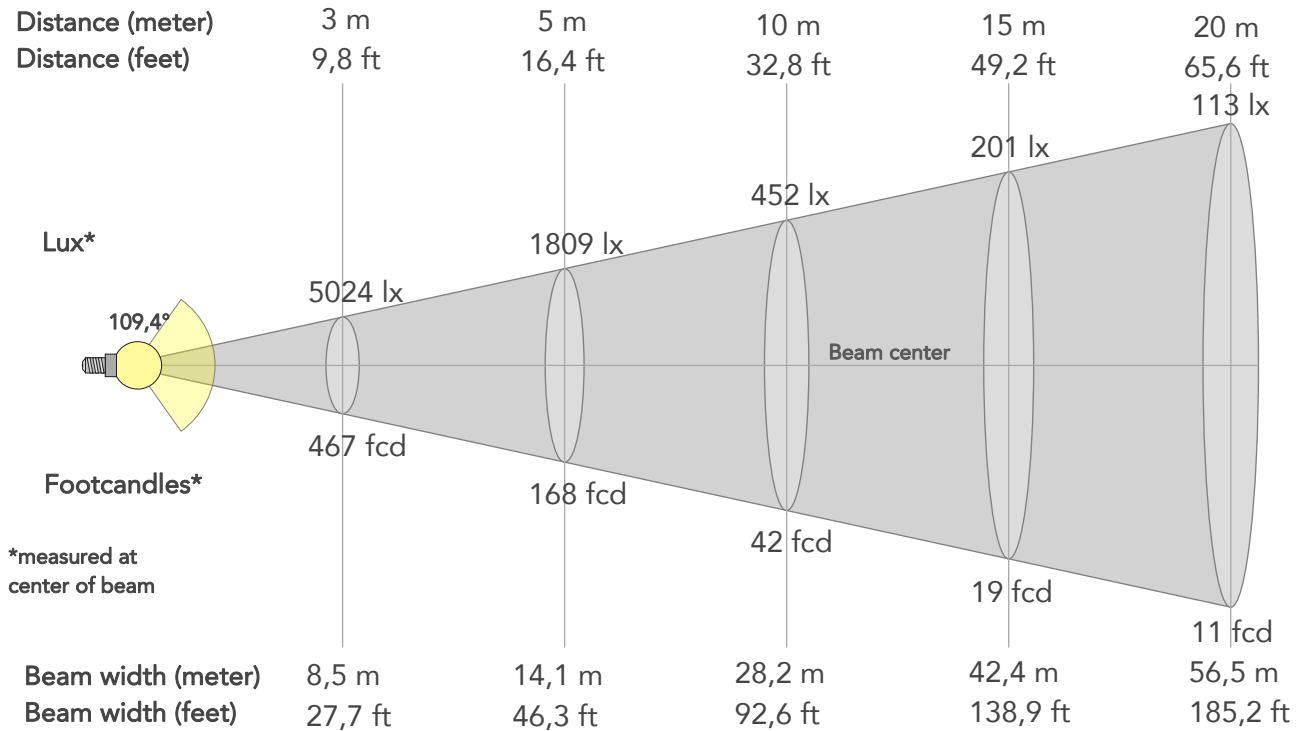




# BEAM DETAILS



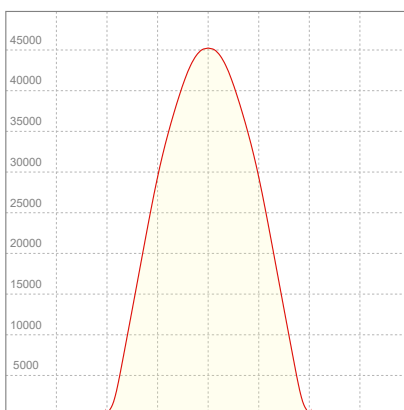
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
109,4°	158,7°	172,2°	80,0%	54,9%



## 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	45216lx	11304lx	5024lx	2826lx	1809lx	804lx	452lx	201lx	113lx	72lx	50lx	28lx	18lx
Footcand.	4201fcd	1050fcd	467fcd	263fcd	168fcd	75fcd	42fcd	19fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	2,8m	5,6m	8,5m	11,3m	14,1m	21,2m	28,2m	42,4m	56,5m	70,6m	84,7m	113m	141,2m
Beam wid.	9,3ft	18,6ft	27,7ft	37ft	46,3ft	69,5ft	92,6ft	138,9ft	185,2ft	231,6ft	277,9ft	370,5ft	463,1ft

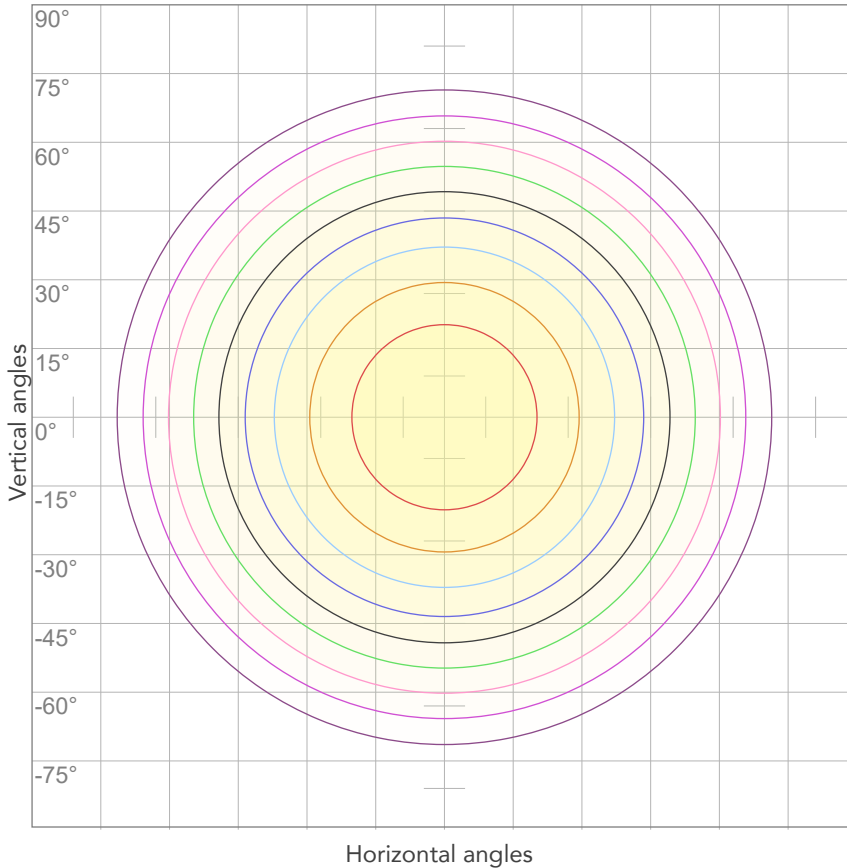
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,98A	1513W	70lm/W

## ISO CANDELA DIAGRAM



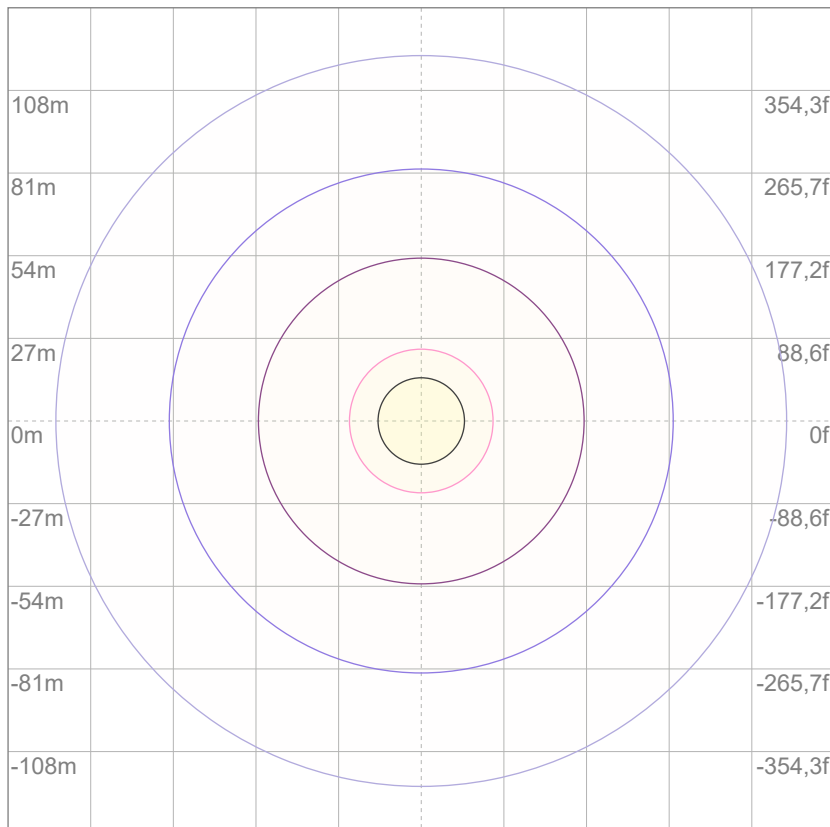
10%	4522 cd
20%	9043 cd
30%	13565 cd
40%	18086 cd
50%	22608 cd
60%	27129 cd
70%	31651 cd
80%	36173 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 45216 cd

## ISO LUX DIAGRAM



3%	13,6 lx
5%	22,6 lx
10%	45,2 lx
30%	136 lx
50%	226 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 452 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

130392 lm

Peak candela output:

48098 cd

Light quality:

CRI: 95,2

Color temperature:

4022 K

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter LD

Target:

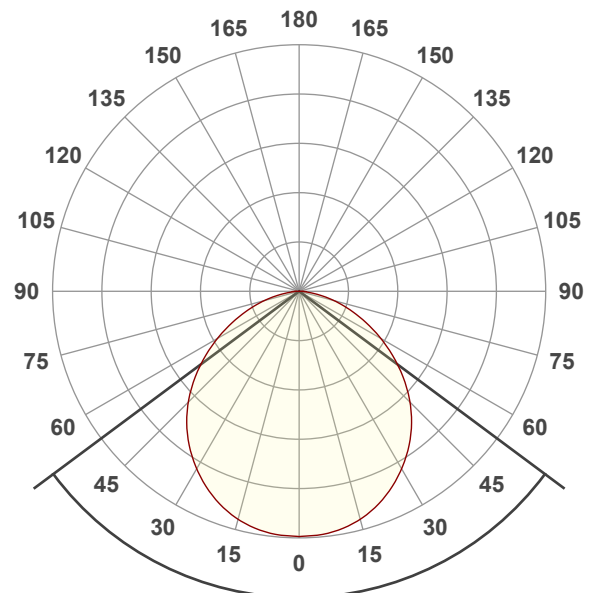
4000K

Operator:

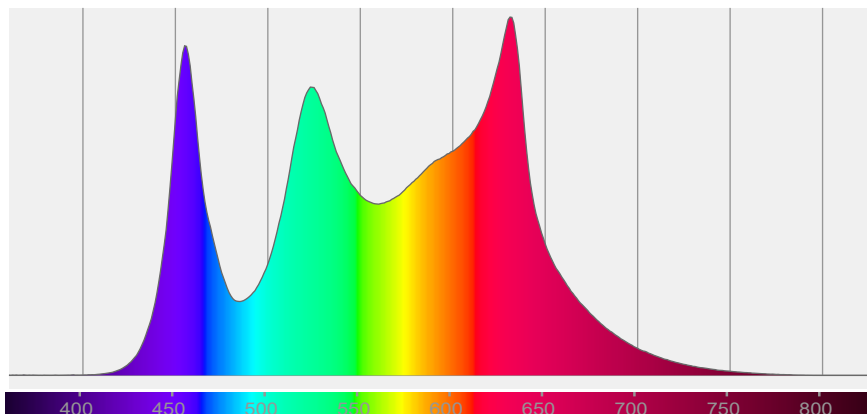
Paolo Carvone

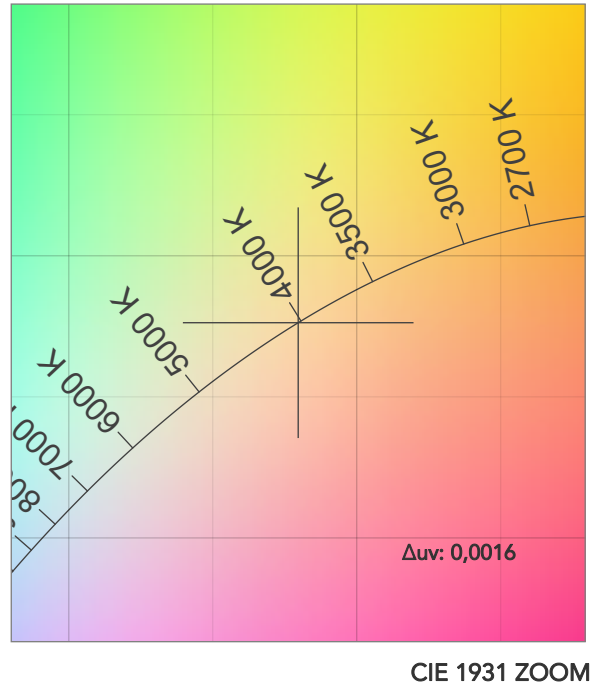
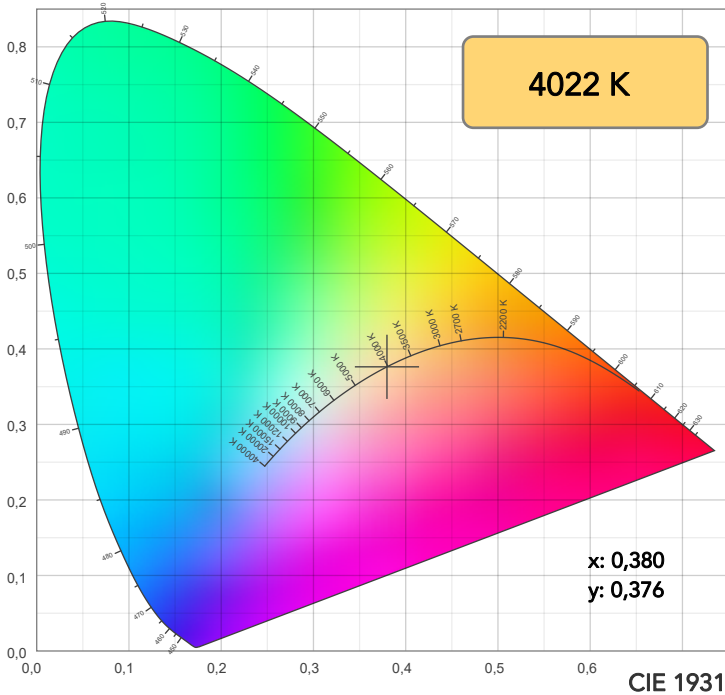
Date and time:

09/06/2022 11:48:27

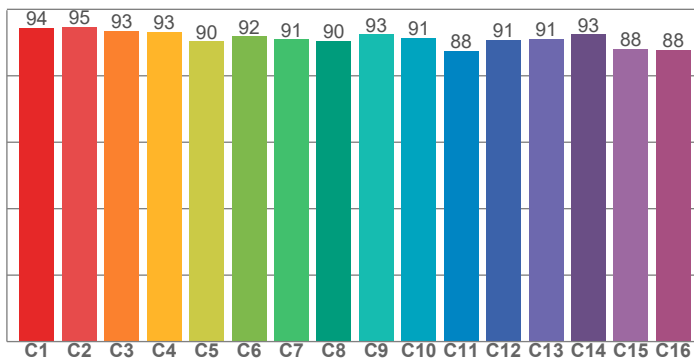


Spectra

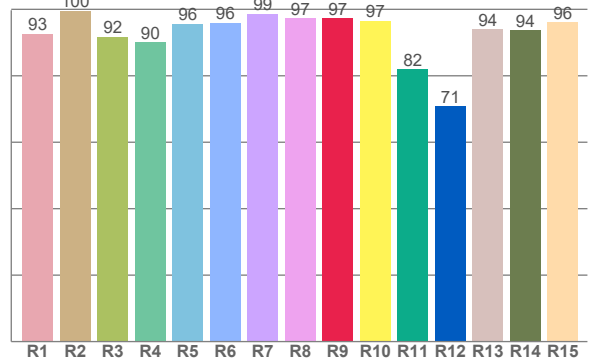




TM30: 91,4



CRI: 95,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,7	99,6	91,8	90,1	95,6	96,0	98,7	97,3	97,2	96,6	82,0	70,8	94,0	93,6	96,2

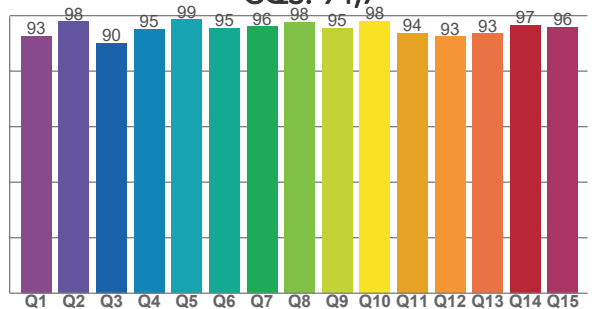
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	94,7	93,5	93,1	90,4	91,9	90,9	90,4	92,5	91,3	87,5	90,8	91,2	92,5	88,2	87,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,6	97,8	90,1	95,2	98,5	95,4	96,1	97,6	95,4	98,1	93,8	92,5	93,5	96,6	95,9

CQS: 94,7



COLOR PARAMETERS

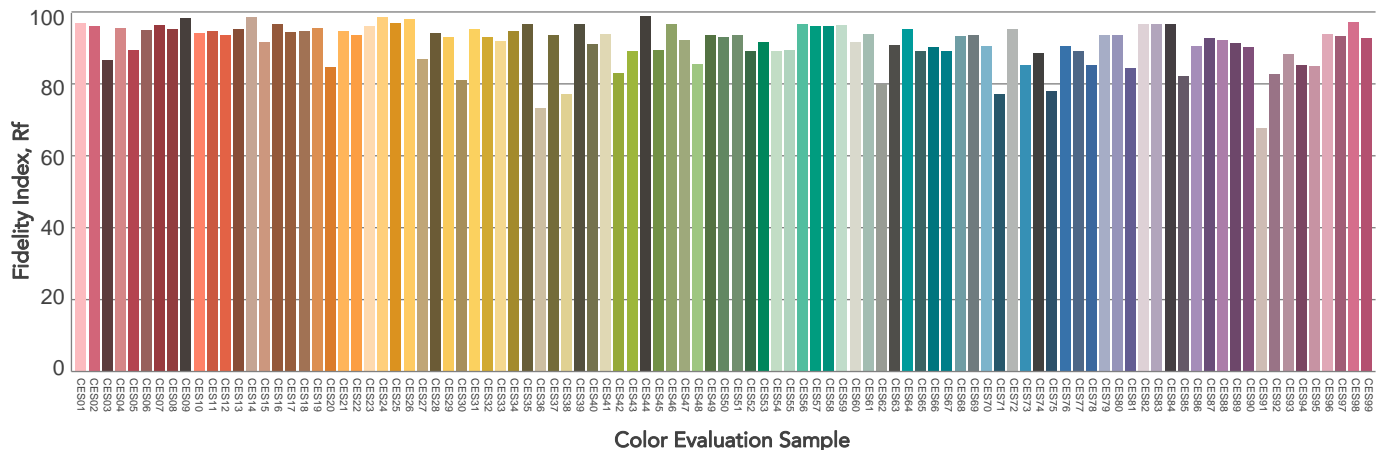
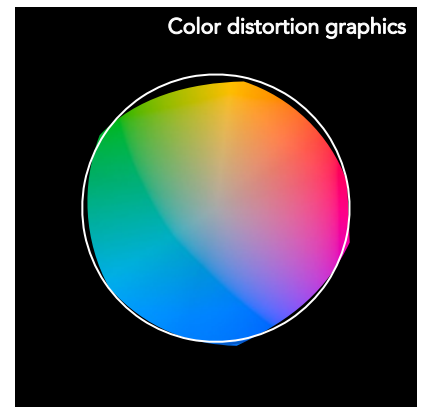
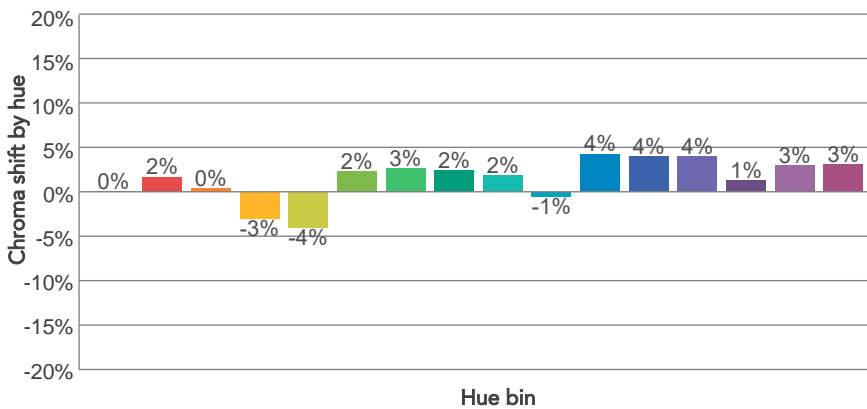
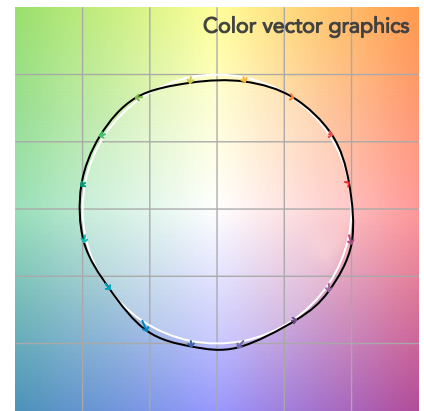
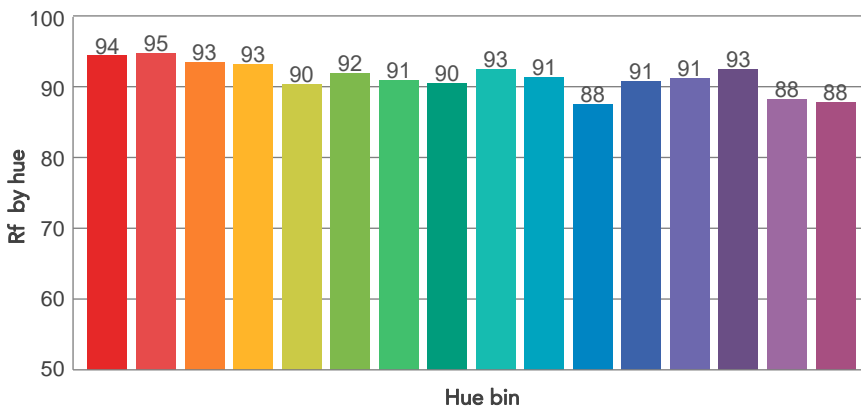
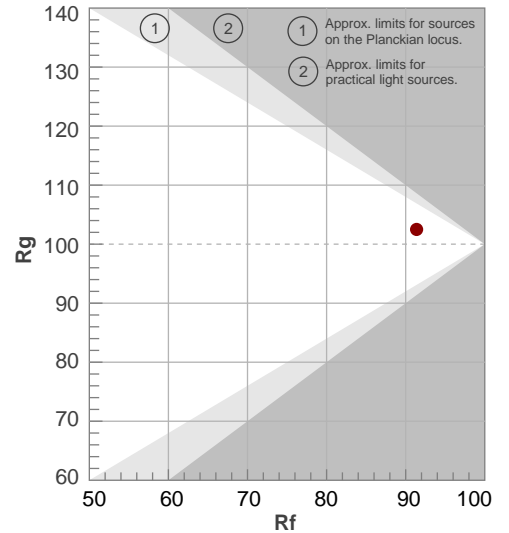
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4022 K	95,2	97,2	91,4	102,5	94,7	89	0,380	0,376	0,0016

# TM30 DETAILS

**Rf 91,4**  
Fidelity index Rf

**Rg 102,5**  
Gammut index

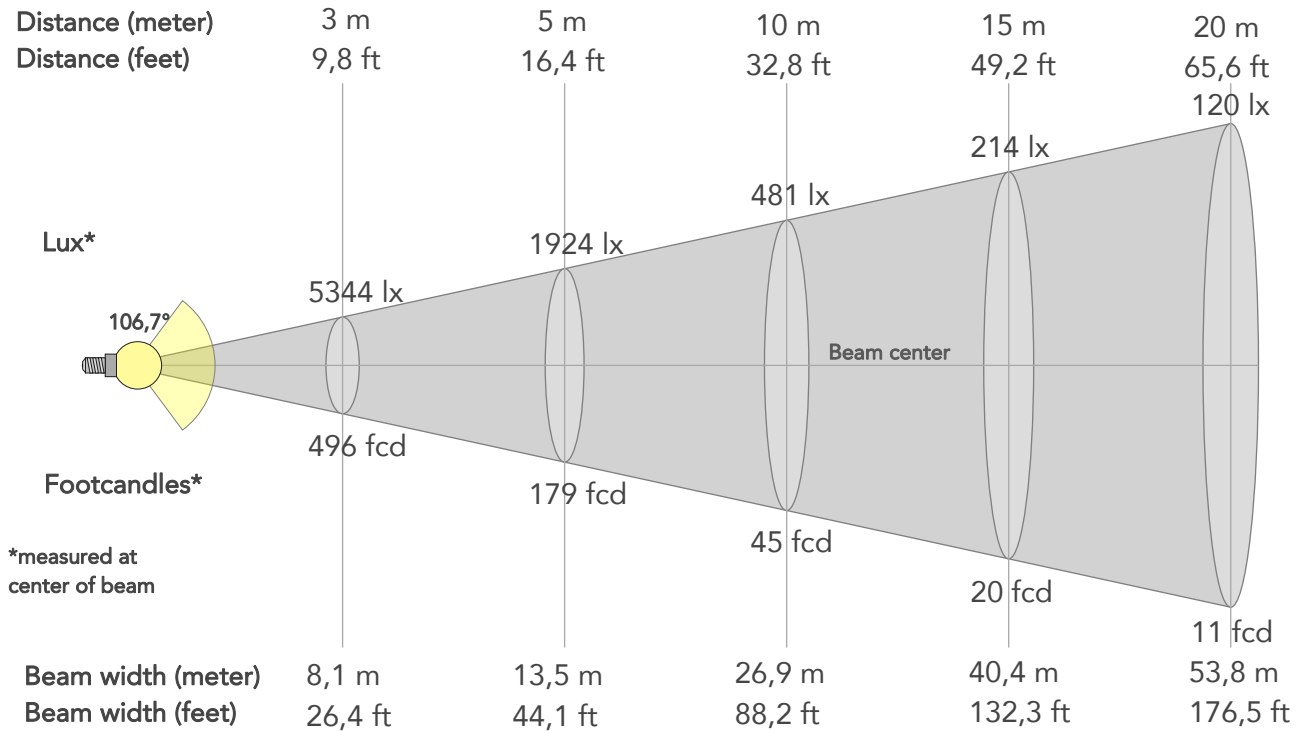
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	0%
2	95	2%	-2%
3	93	0%	-1%
4	93	-3%	-2%
5	90	-4%	1%
6	92	2%	4%
7	91	3%	3%
8	90	2%	3%
9	93	2%	5%
10	91	-1%	5%
11	88	4%	7%
12	91	4%	1%
13	91	4%	-5%
14	93	1%	3%
15	88	3%	-4%
16	88	3%	-6%



# BEAM DETAILS



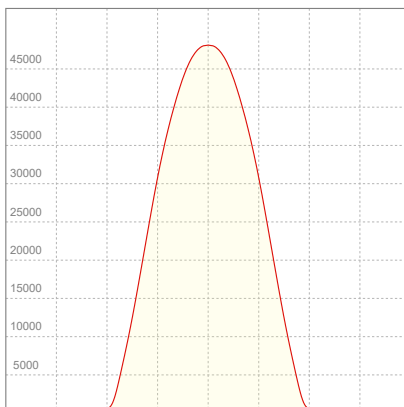
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
106,7°	157°	171,1°	80,2%	55,7%



## 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	48098lx	12024lx	5344lx	3006lx	1924lx	855lx	481lx	214lx	120lx	77lx	53lx	30lx	19lx
Footcand.	4468fcd	1117fcd	496fcd	279fcd	179fcd	79fcd	45fcd	20fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	2,7m	5,4m	8,1m	10,8m	13,5m	20,2m	26,9m	40,4m	53,8m	67,3m	80,7m	107,6m	134,5m
Beam wid.	8,9ft	17,8ft	26,4ft	35,2ft	44,1ft	66,2ft	88,2ft	132,3ft	176,5ft	220,6ft	264,7ft	352,9ft	441,2ft

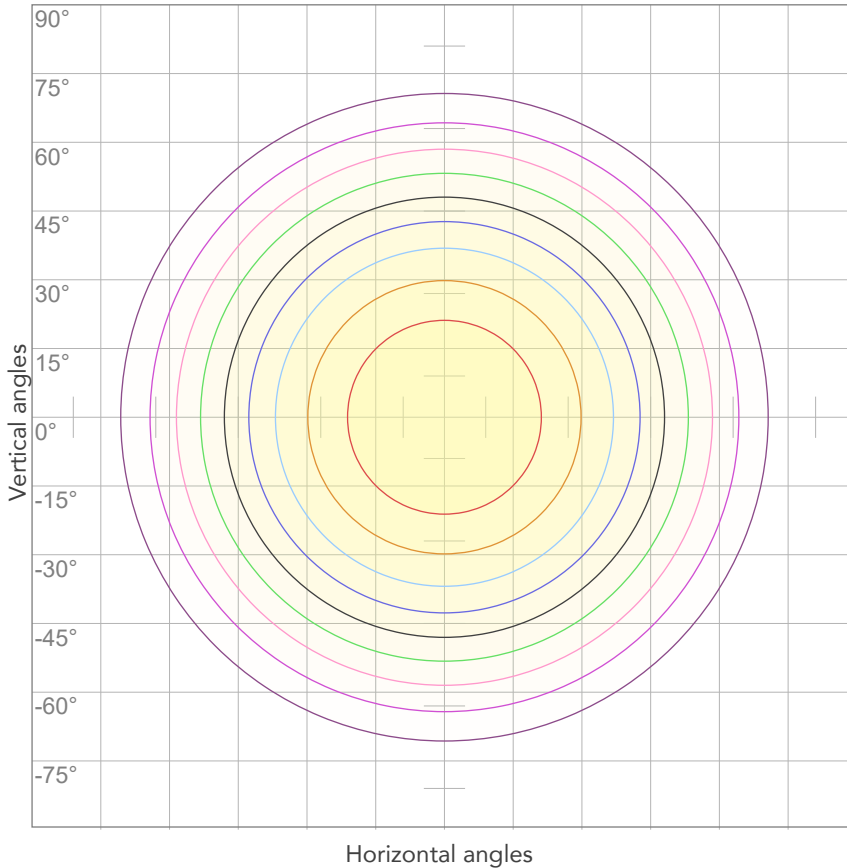
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,98A	1513W	70lm/W

## ISO CANDELA DIAGRAM



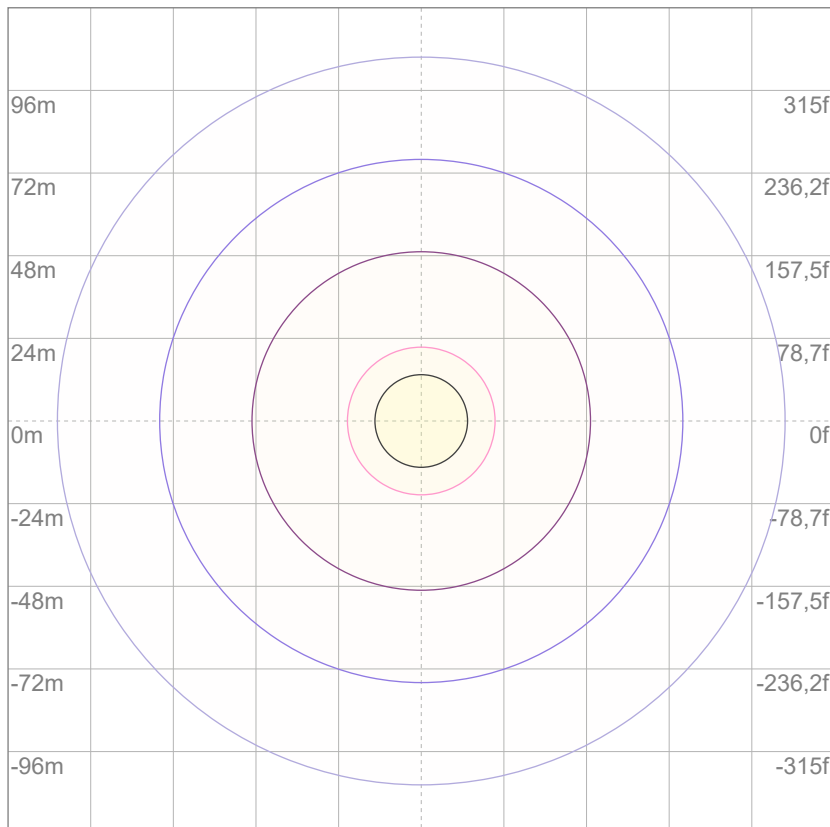
10%	4810 cd
20%	9620 cd
30%	14429 cd
40%	19239 cd
50%	24049 cd
60%	28859 cd
70%	33669 cd
80%	38478 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 48098 cd

## ISO LUX DIAGRAM



3%	14,4 lx
5%	24,0 lx
10%	48,1 lx
30%	144 lx
50%	240 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 481 lx

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



Total lumen output:

99051 lm

Peak candela output:

59954 cd

Light quality:

CRI: 95,3

Color temperature:

4013 K

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter INT

Target:

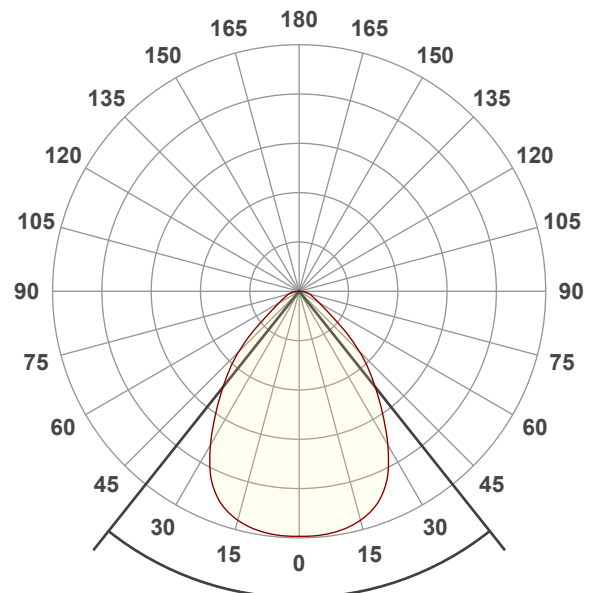
4000K

Operator:

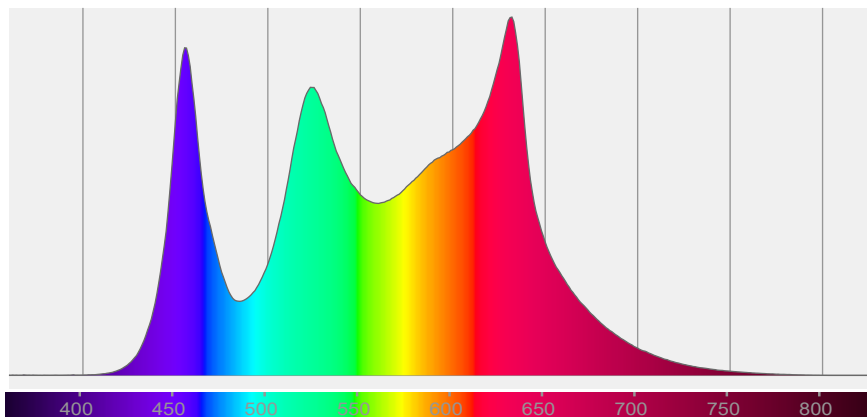
Paolo Carvone

Date and time:

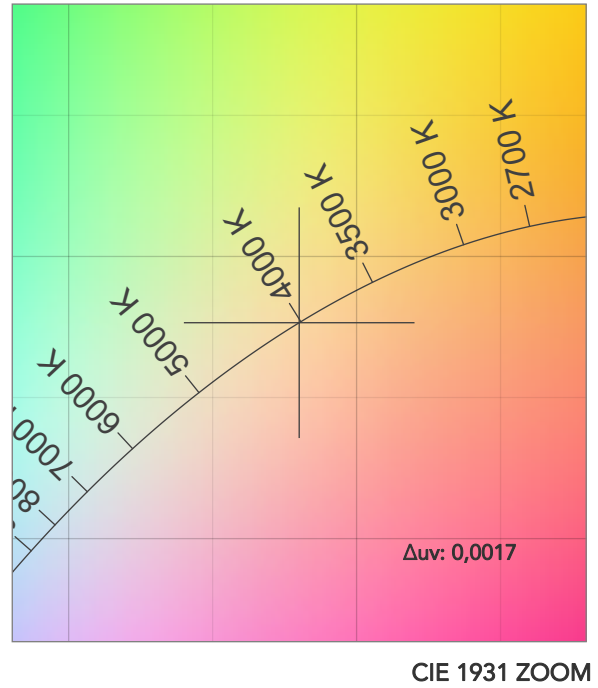
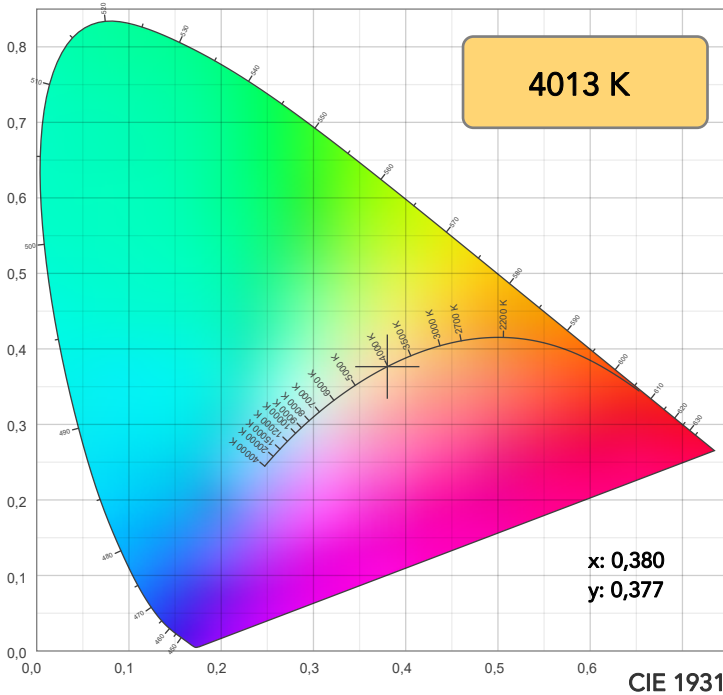
24/06/2022 09:16:10



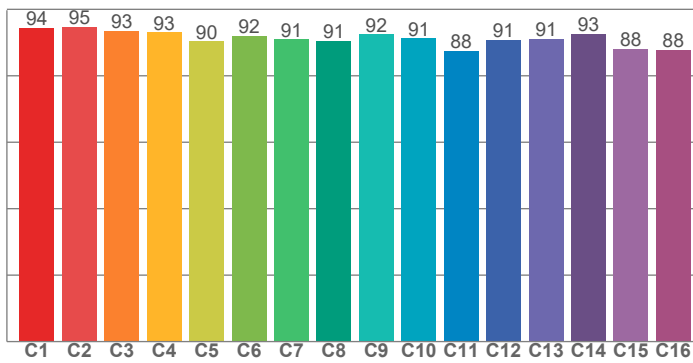
Spectra



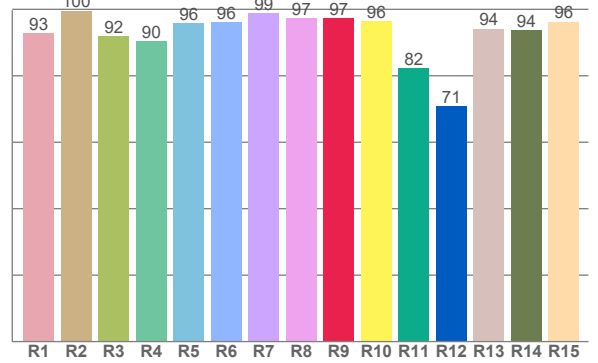




TM30: 91,4



CRI: 95,3 (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
92,8	99,5	91,8	90,3	95,8	96,0	98,7	97,4	97,3	96,5	82,3	70,8	94,1	93,7	96,3

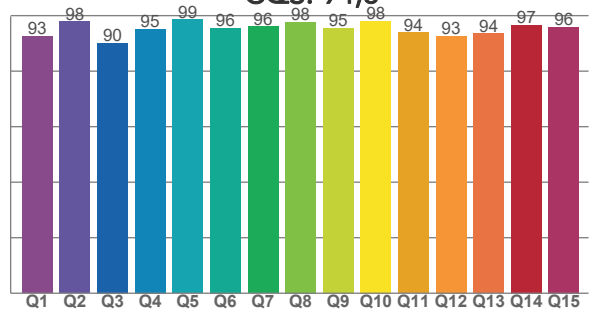
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,6	97,8	90,1	95,2	98,6	95,5	96,1	97,7	95,5	98,0	93,9	92,6	93,6	96,7	95,9

CQS: 94,8



COLOR PARAMETERS

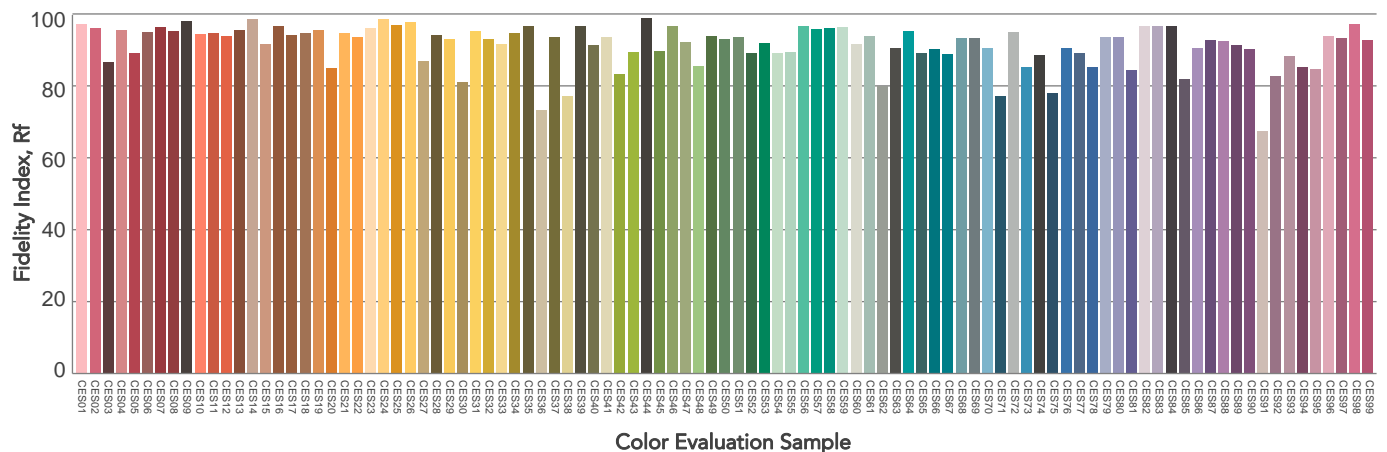
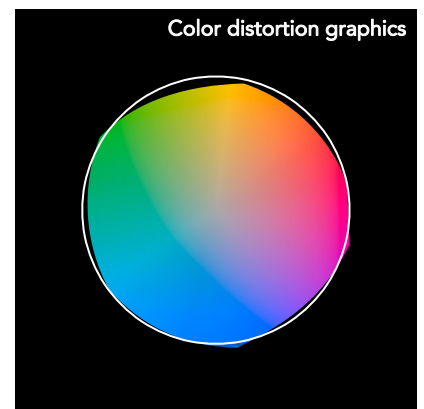
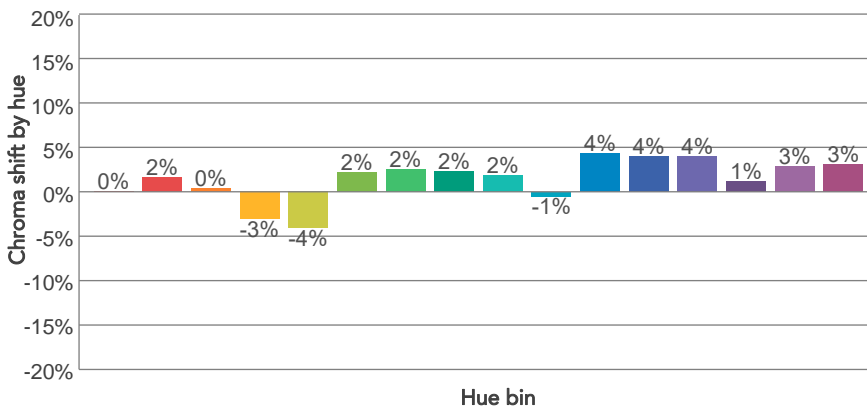
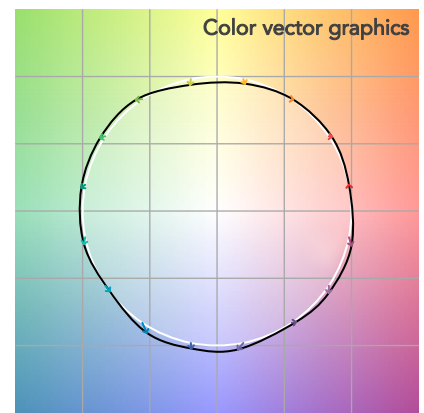
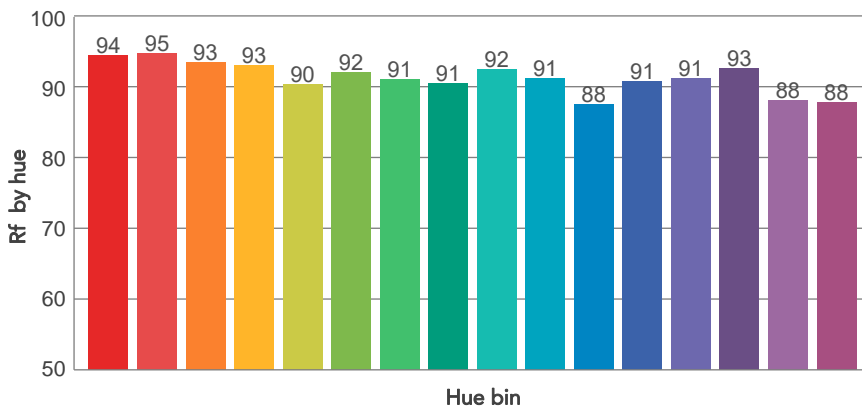
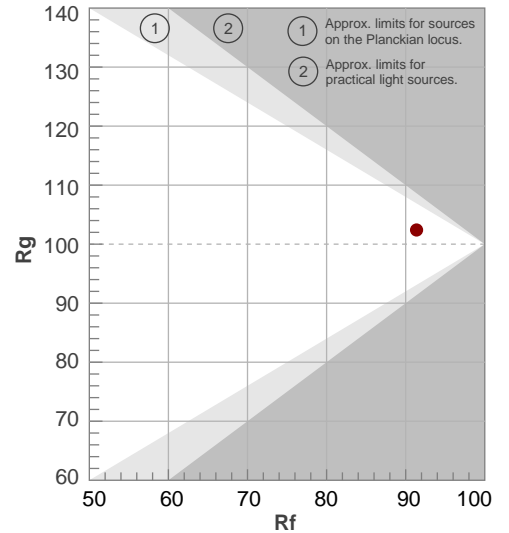
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4013 K	95,3	97,3	91,4	102,4	94,8	89	0,380	0,377	0,0017

# TM30 DETAILS

**Rf 91,4**  
Fidelity index Rf

**Rg 102,4**  
Gammut index

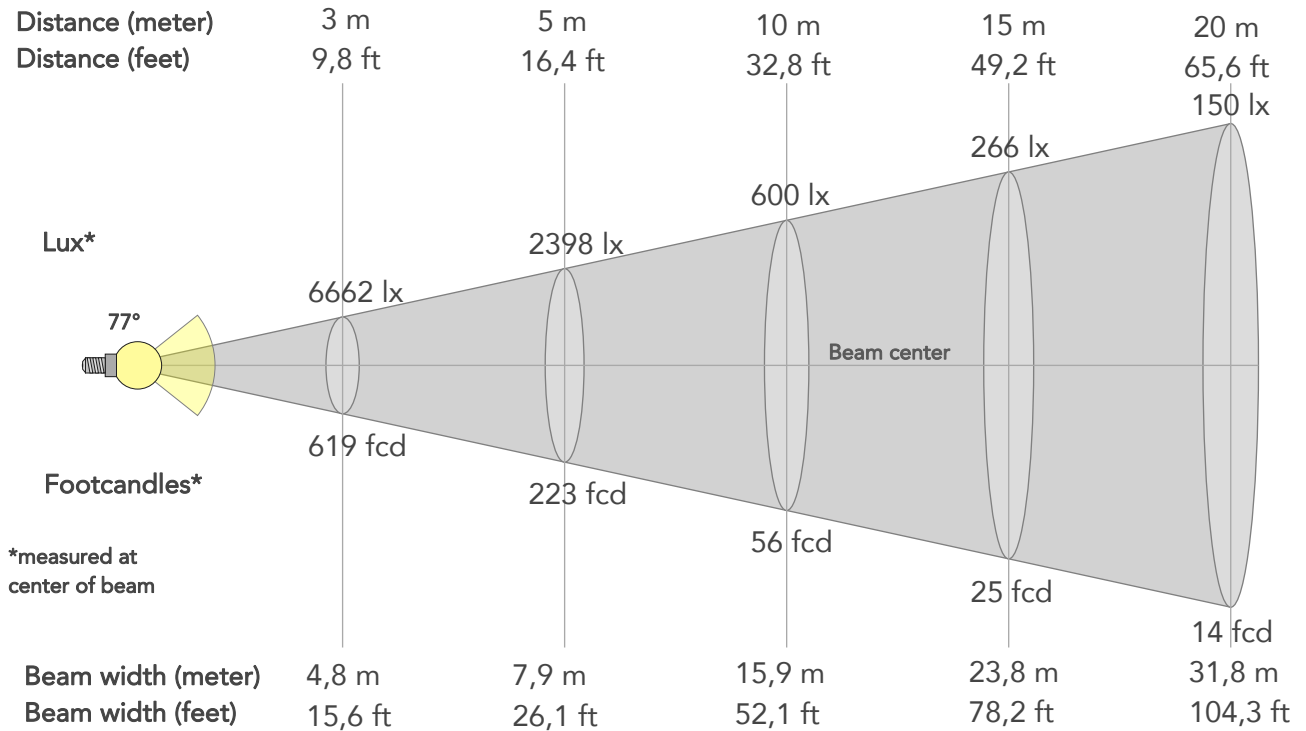
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	0%
2	95	2%	-2%
3	93	0%	-1%
4	93	-3%	-2%
5	90	-4%	1%
6	92	2%	4%
7	91	2%	3%
8	91	2%	3%
9	92	2%	5%
10	91	-1%	5%
11	88	4%	7%
12	91	4%	1%
13	91	4%	-5%
14	93	1%	3%
15	88	3%	-5%
16	88	3%	-6%



# BEAM DETAILS



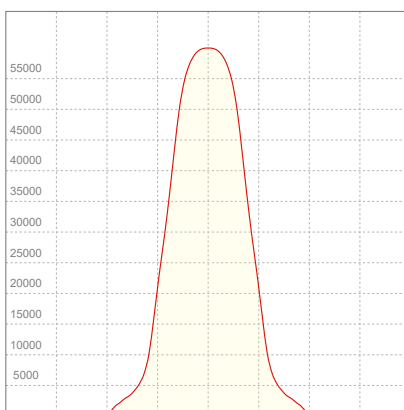
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
77°	118,7°	166,5°	91,7%	76,9%



## 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	59954lx	14989lx	6662lx	3747lx	2398lx	1066lx	600lx	266lx	150lx	96lx	67lx	37lx	24lx
Footcand.	5570fcd	1392fcd	619fcd	348fcd	223fcd	99fcd	56fcd	25fcd	14fcd	9fcd	6fcd	3fcd	2fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	7,9m	11,9m	15,9m	23,8m	31,8m	39,7m	47,7m	63,6m	79,5m
Beam wid.	5,2ft	10,5ft	15,6ft	20,8ft	26,1ft	39,1ft	52,1ft	78,2ft	104,3ft	130,3ft	156,4ft	208,6ft	260,7ft

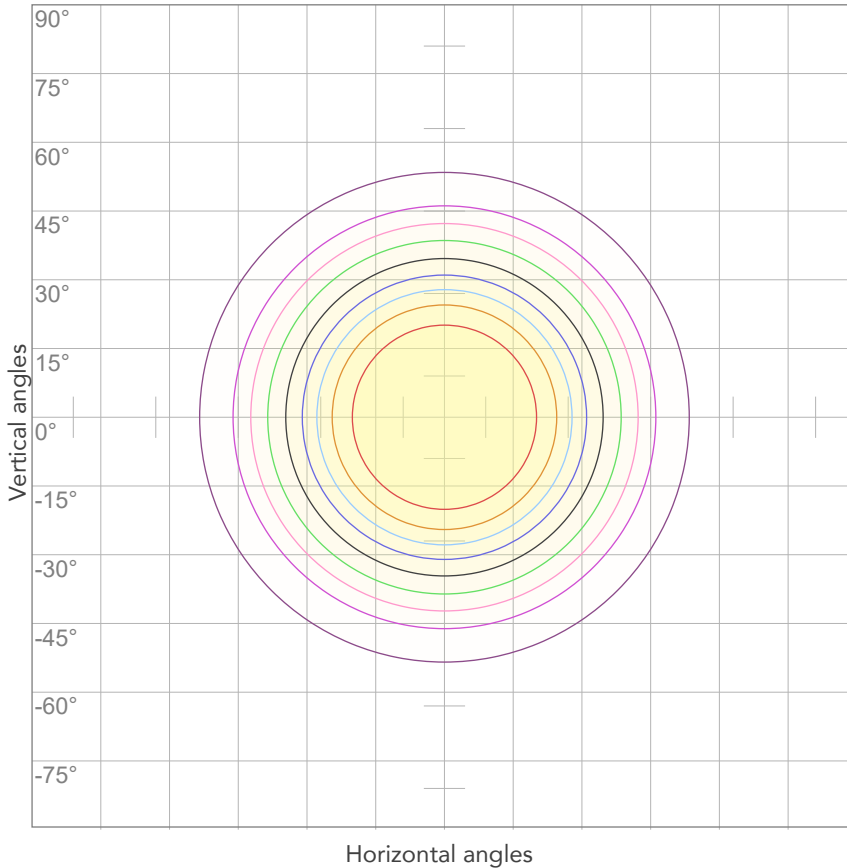
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6.98A	1513W	70lm/W

## ISO CANDELA DIAGRAM



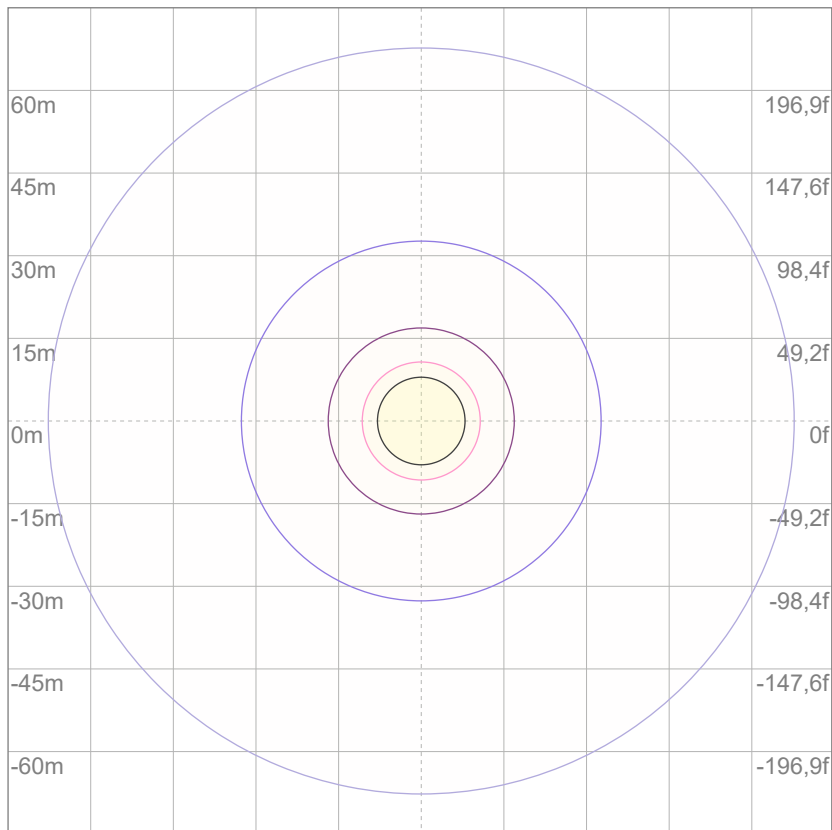
10%	5995 cd
20%	11991 cd
30%	17986 cd
40%	23982 cd
50%	29977 cd
60%	35973 cd
70%	41968 cd
80%	47963 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 59954 cd

## ISO LUX DIAGRAM



3%	18,0 lx
5%	30,0 lx
10%	60,0 lx
30%	180 lx
50%	300 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 600 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

102039 lm

Peak candela output:

34638 cd

Light quality:

CRI: 93,7

Color temperature:

5621 K

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASURAMENT CONDITIONS:**

Beam angle:

Filter HD

Target:

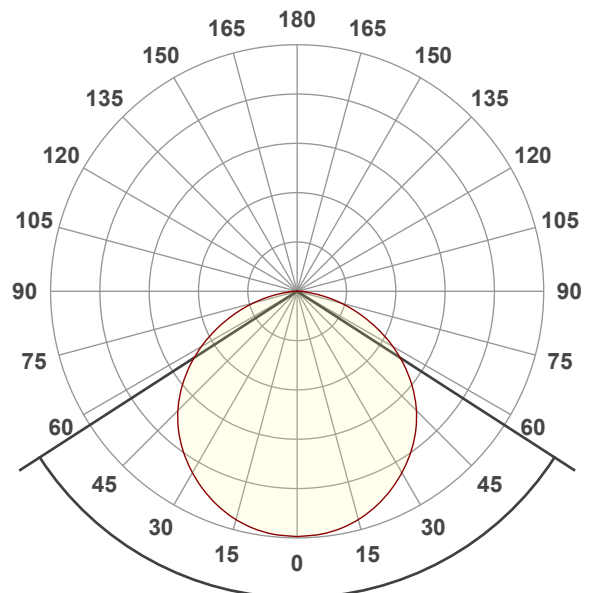
5600K

Operator:

Paolo Carvone

Date and time:

09/06/2022 12:39:35

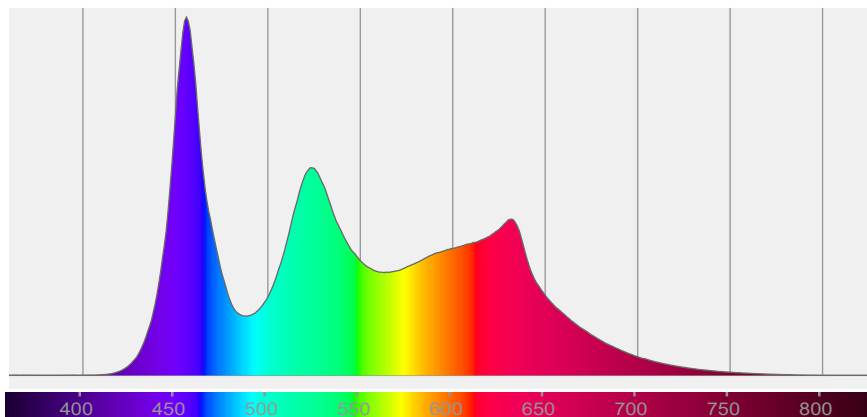


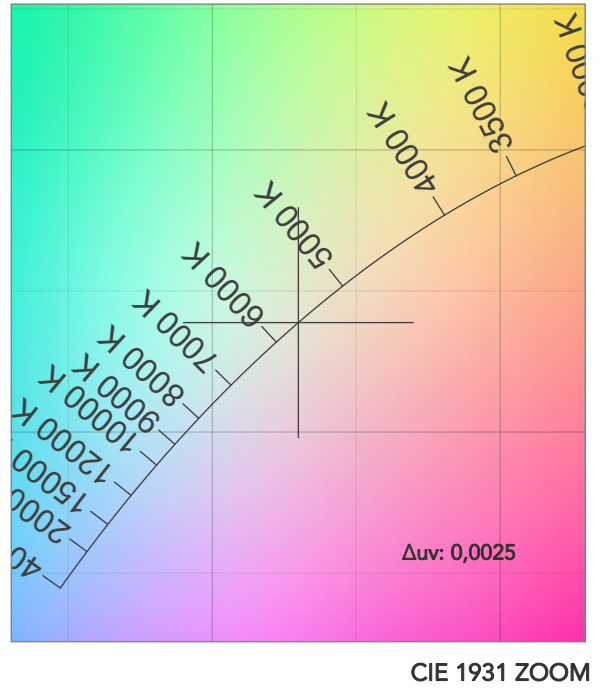
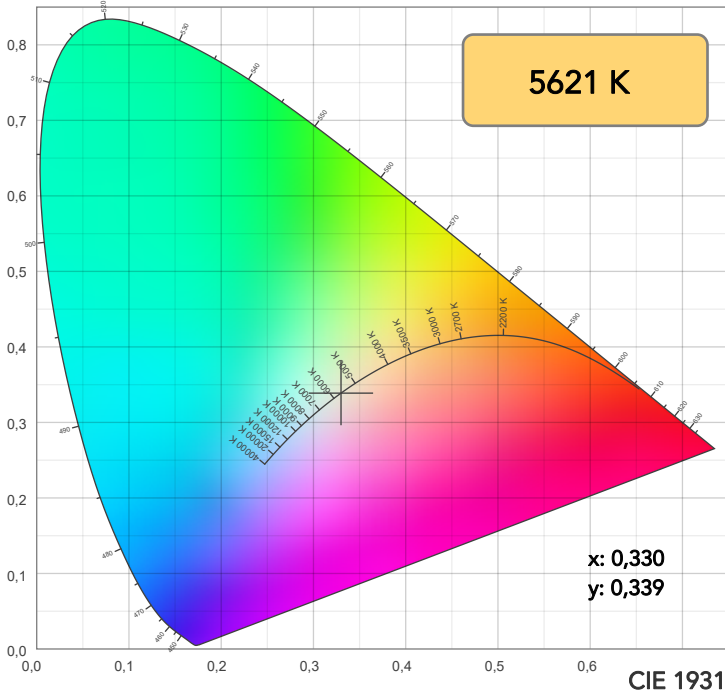
Beam angle 50%: 114,3°

Field angle 10%: 160,3°

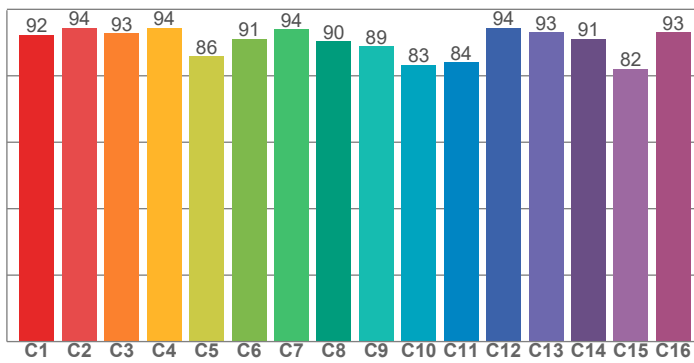
Cut off angle 2.5%: 172,7°

Spectra

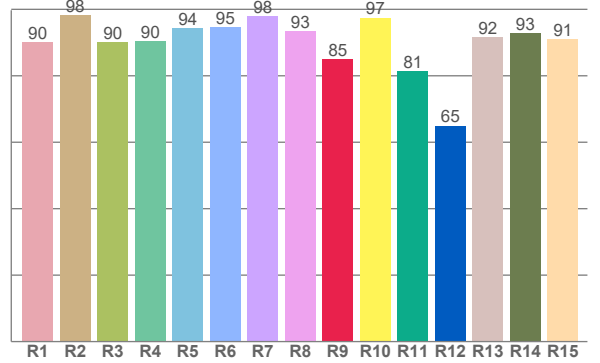




TM30: 89,9



CRI: 93,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
90,1	98,3	90,2	90,3	94,3	94,5	98,0	93,5	85,0	97,5	81,5	65,0	91,6	92,9	91,0

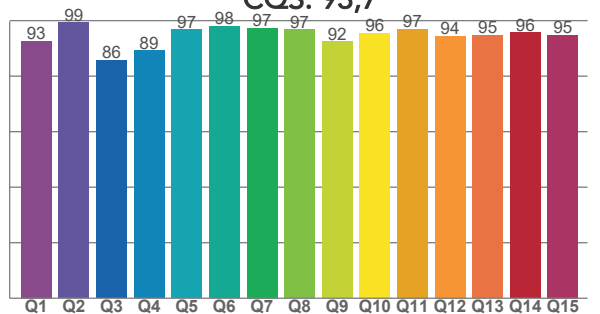
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,2	94,4	92,7	94,4	85,9	91,1	93,9	90,4	88,9	83,3	84,0	94,5	93,1	91,2	82,1	93,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,7	99,3	85,7	89,2	96,8	97,9	97,3	96,8	92,5	95,6	97,0	94,4	94,7	95,7	94,8

CQS: 93,7



COLOR PARAMETERS

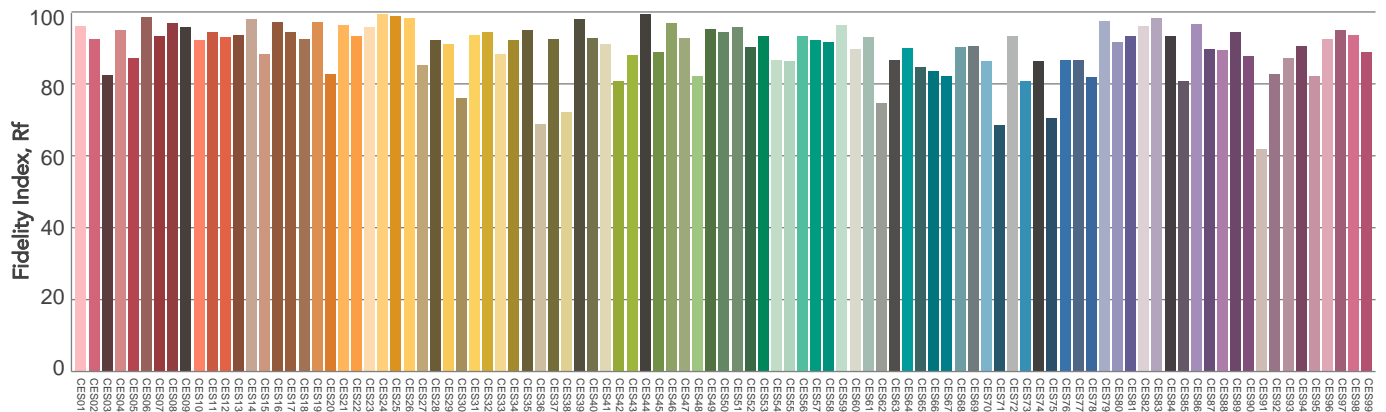
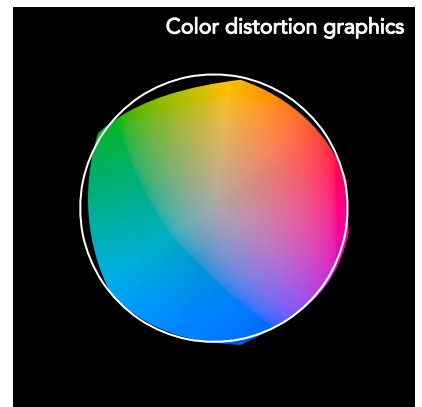
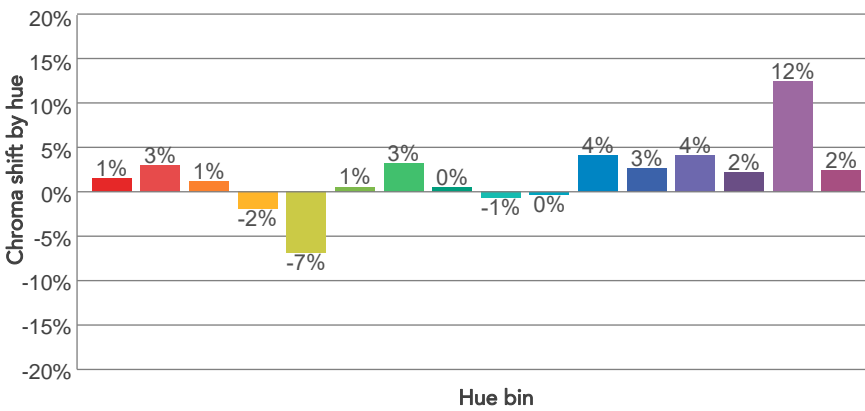
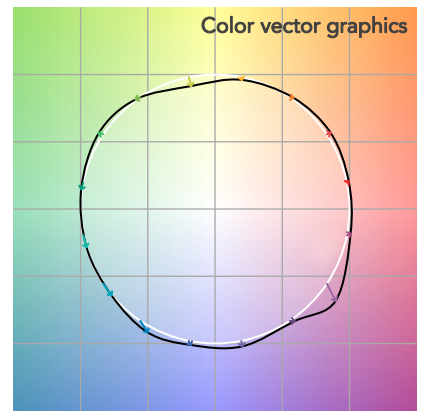
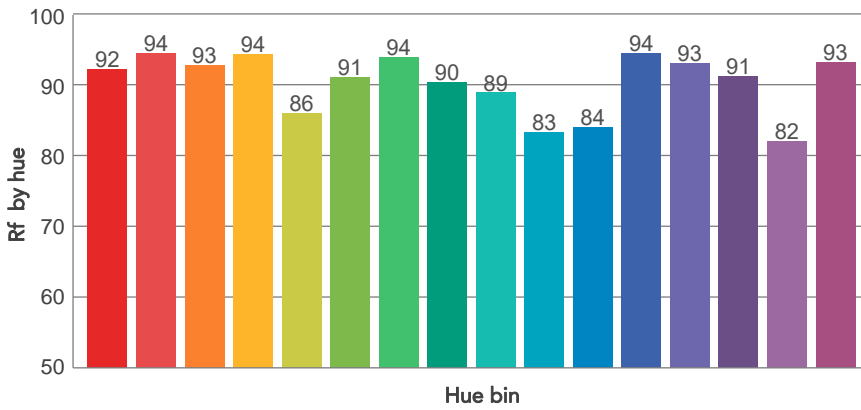
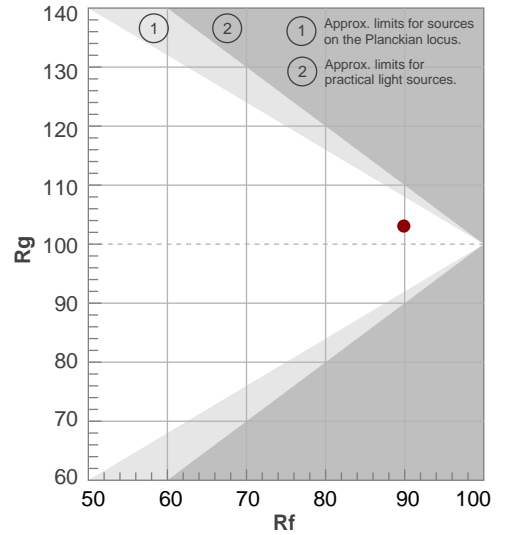
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5621 K	93,7	85,0	89,9	103,1	93,7	92	0,330	0,339	0,0025

# TM30 DETAILS

**Rf 89,9**  
Fidelity index Rf

**Rg 103,1**  
Gammut index

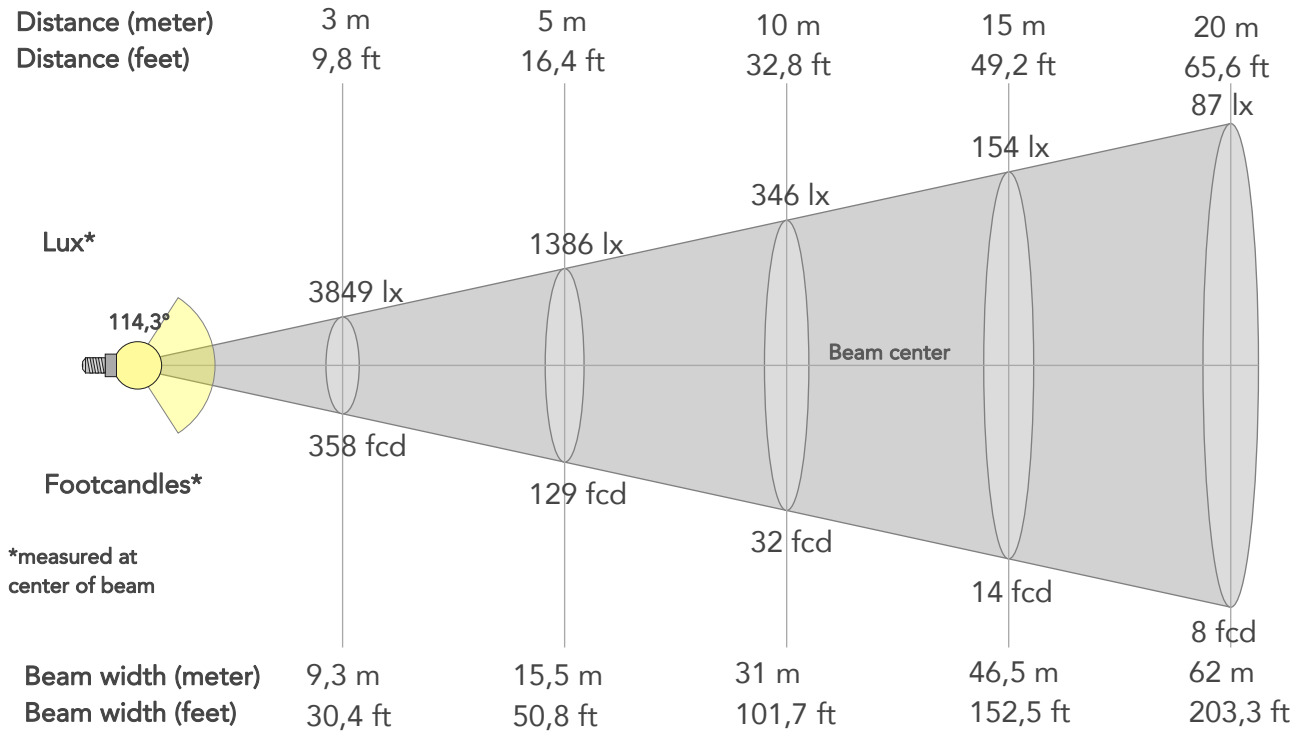
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	1%	1%
2	94	3%	-1%
3	93	1%	-2%
4	94	-2%	-1%
5	86	-7%	0%
6	91	1%	4%
7	94	3%	1%
8	90	0%	5%
9	89	-1%	9%
10	83	0%	11%
11	84	4%	9%
12	94	3%	2%
13	93	4%	0%
14	91	2%	3%
15	82	12%	-7%
16	93	2%	2%



# BEAM DETAILS



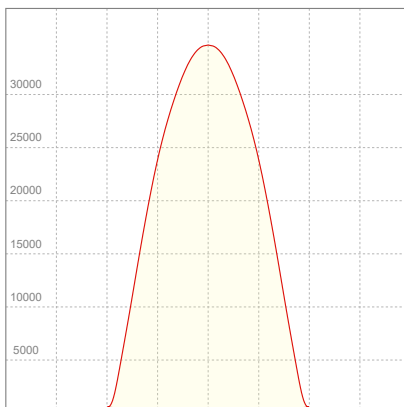
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,3°	160,3°	172,7°	77,8%	52,6%



## 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	34638lx	8660lx	3849lx	2165lx	1386lx	616lx	346lx	154lx	87lx	55lx	38lx	22lx	14lx
Footcand.	3218fcd	805fcd	358fcd	201fcd	129fcd	57fcd	32fcd	14fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	3,1m	6,2m	9,3m	12,4m	15,5m	23,2m	31m	46,5m	62m	77,5m	93m	124m	155m
Beam wid.	10,2ft	20,5ft	30,4ft	40,6ft	50,8ft	76,3ft	101,7ft	152,5ft	203,3ft	254,2ft	305ft	406,7ft	508,3ft

## LINEAR DISTRIBUTION DIAGRAM

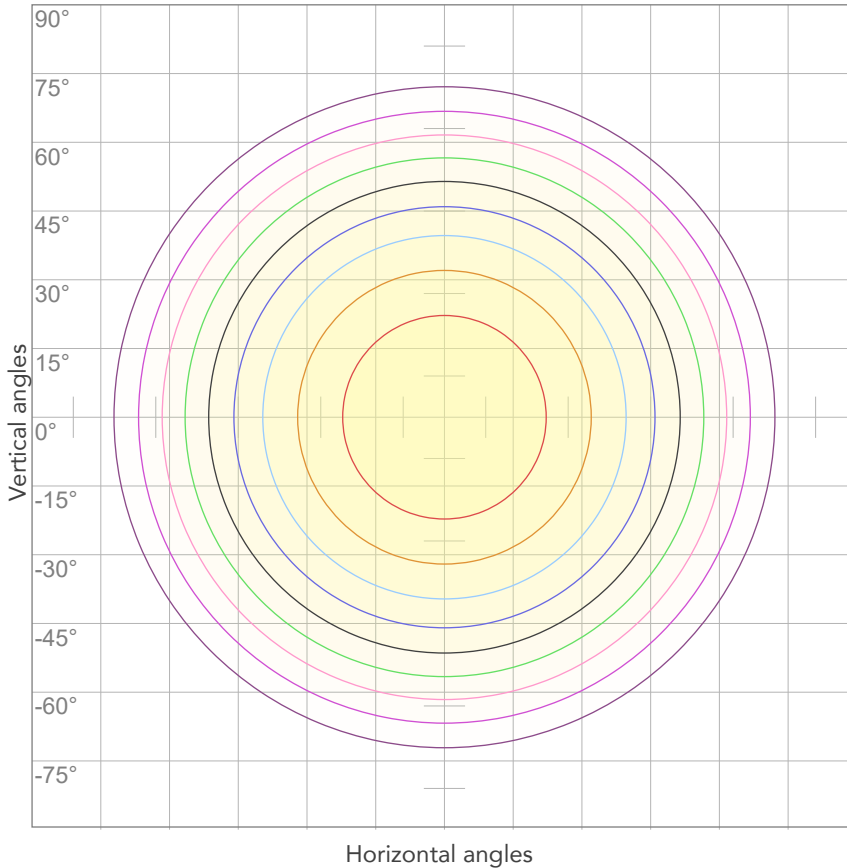


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,91A	1488W	66lm/W



## ISO CANDELA DIAGRAM



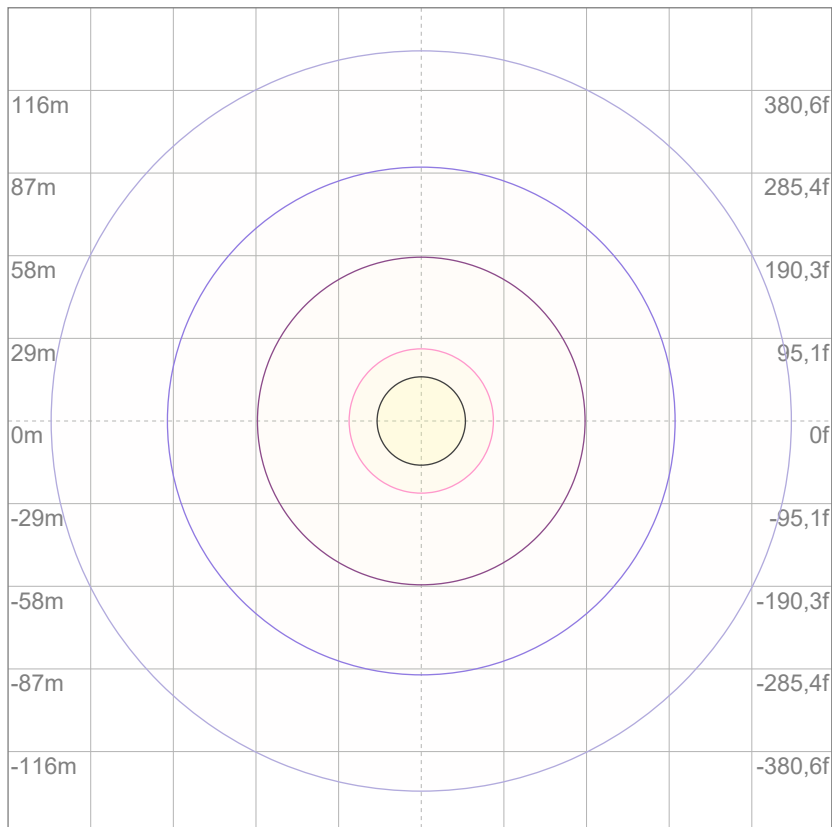
10%	3464 cd
20%	6928 cd
30%	10391 cd
40%	13855 cd
50%	17319 cd
60%	20783 cd
70%	24247 cd
80%	27711 cd

Conditions:

Number of c-planes: 2

Candela at center: 34638 cd

## ISO LUX DIAGRAM



3%	10,4 lx
5%	17,3 lx
10%	34,6 lx
30%	104 lx
50%	173 lx

Conditions:

Number of c-planes: 2

Lux at center: 346 lx

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



Total lumen output:

118565 lm

Peak candela output:

43167 cd

Light quality:

CRI: 95,4

Color temperature:

5612 K

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter MD

Target:

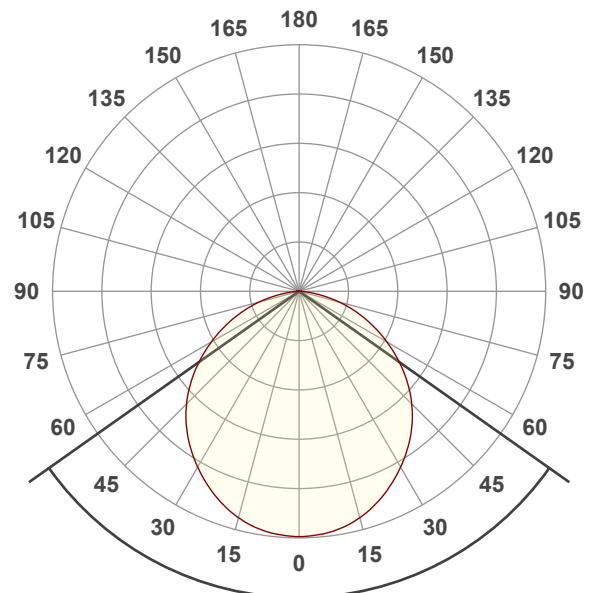
5600K

Operator:

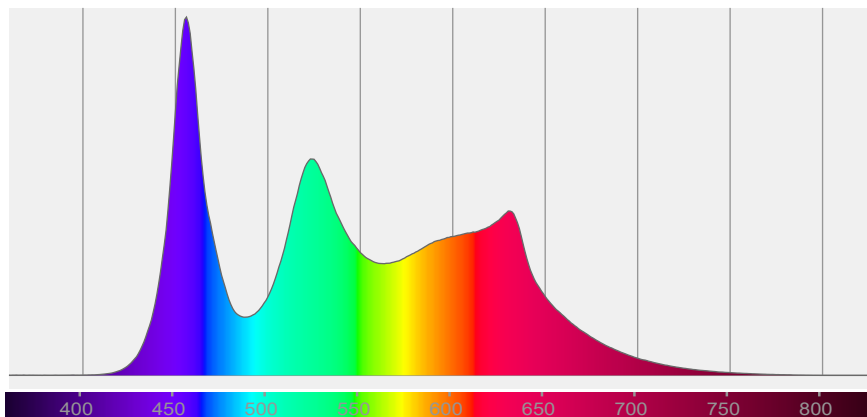
Paolo Carvone

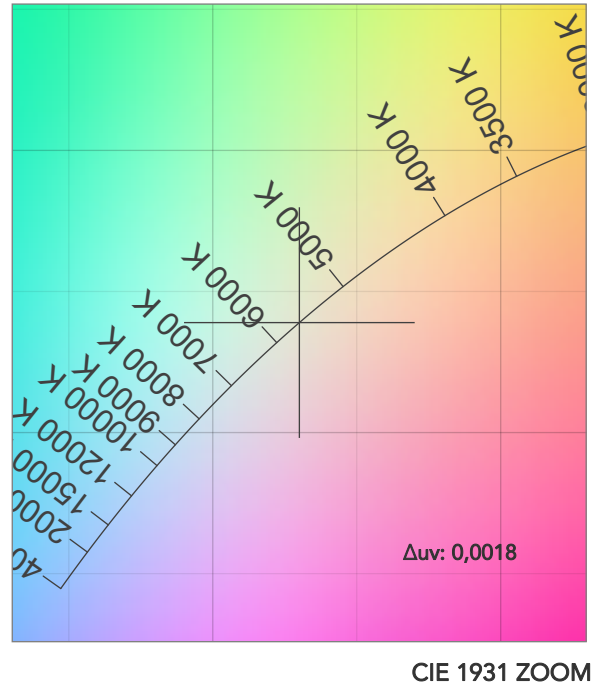
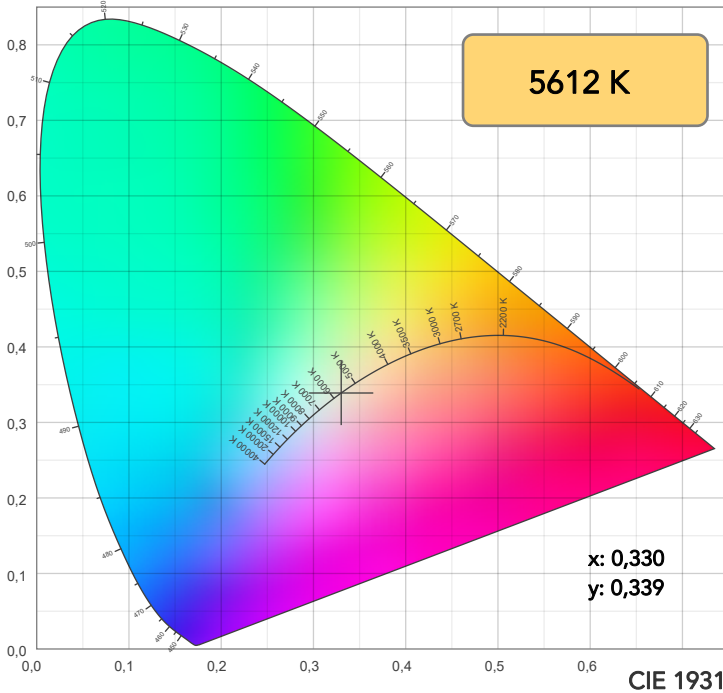
Date and time:

09/06/2022 11:10:42

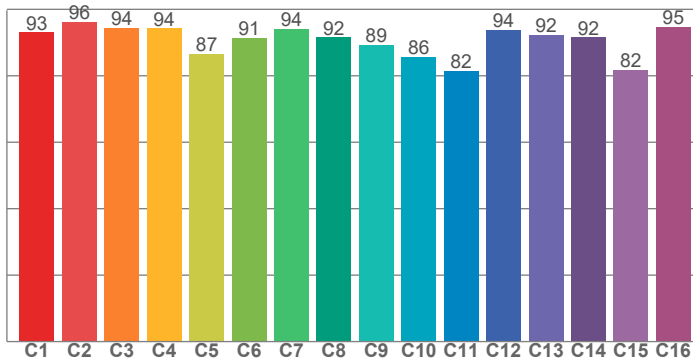


Spectra

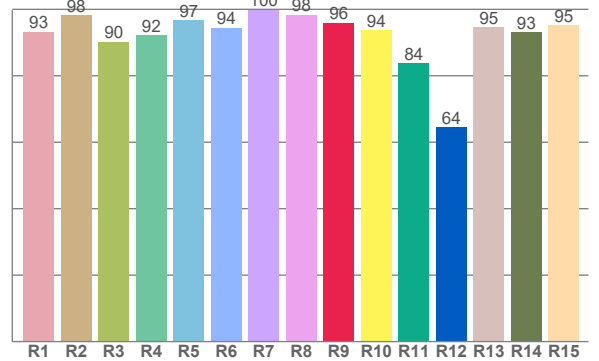




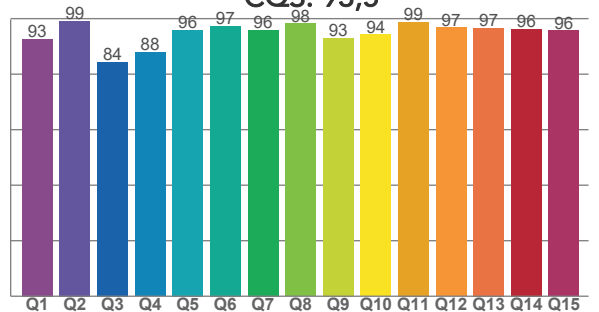
TM30: 90,3



CRI: 95,4 (R1-R8)



CQS: 93,5



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,3	98,2	90,3	92,3	96,7	94,5	99,8	98,4	95,9	93,7	83,7	64,4	94,5	93,1	95,2

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,0	96,2	94,4	94,3	86,6	91,4	94,2	91,6	89,3	85,6	81,6	93,9	92,3	91,5	81,8	94,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,6	99,2	84,4	87,9	95,9	97,3	95,8	98,2	93,0	94,2	98,7	96,8	96,7	96,3	95,7

COLOR PARAMETERS

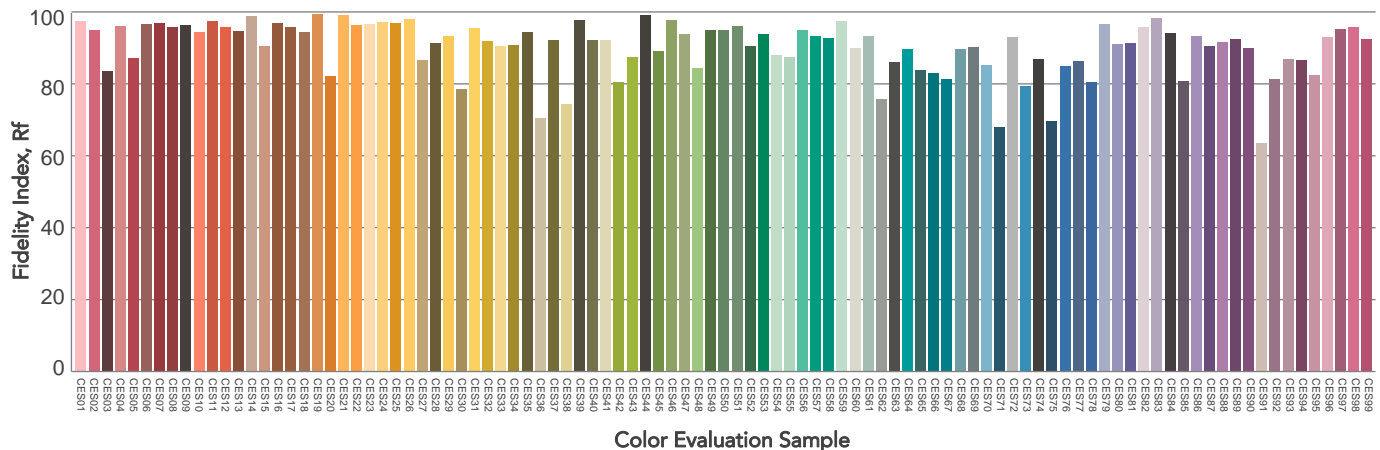
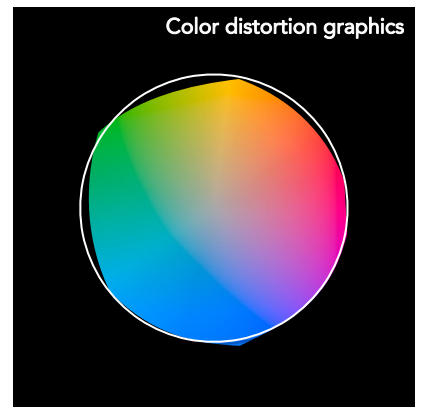
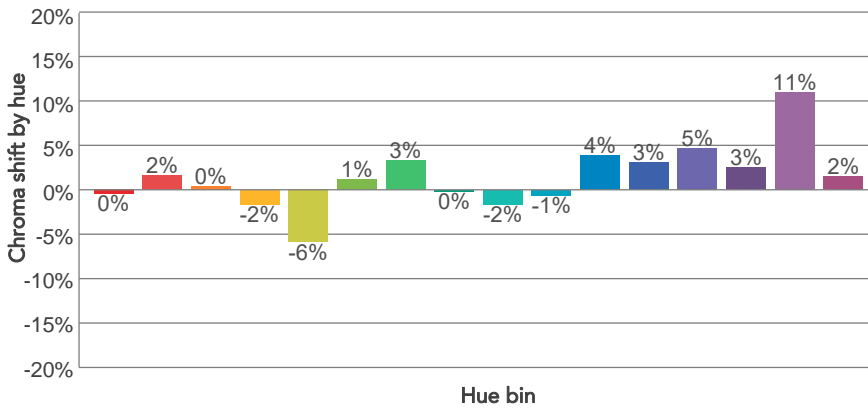
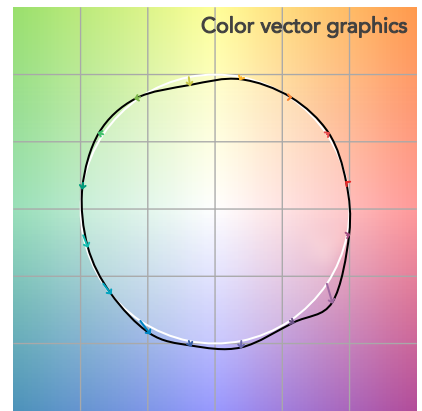
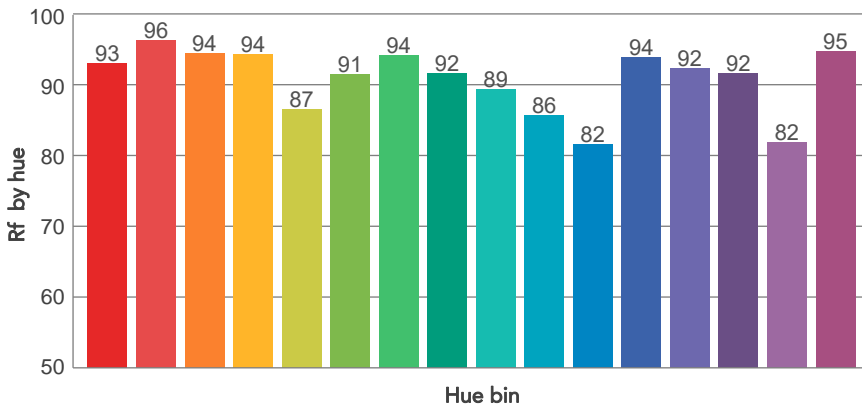
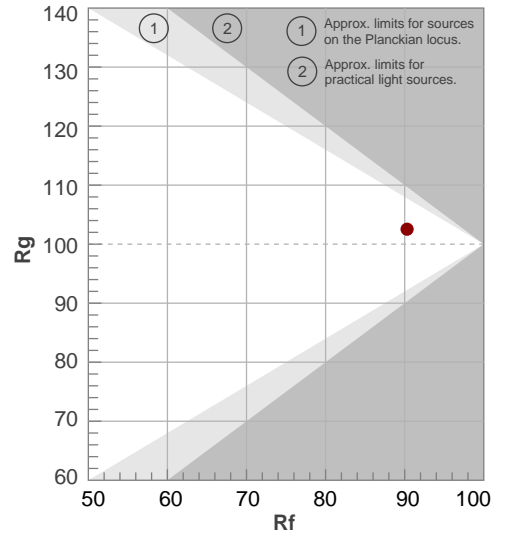
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5612 K	95,4	95,9	90,3	102,5	93,5	93	0,330	0,339	0,0018

# TM30 DETAILS

**Rf 90,3**  
Fidelity index Rf

**Rg 102,5**  
Gammut index

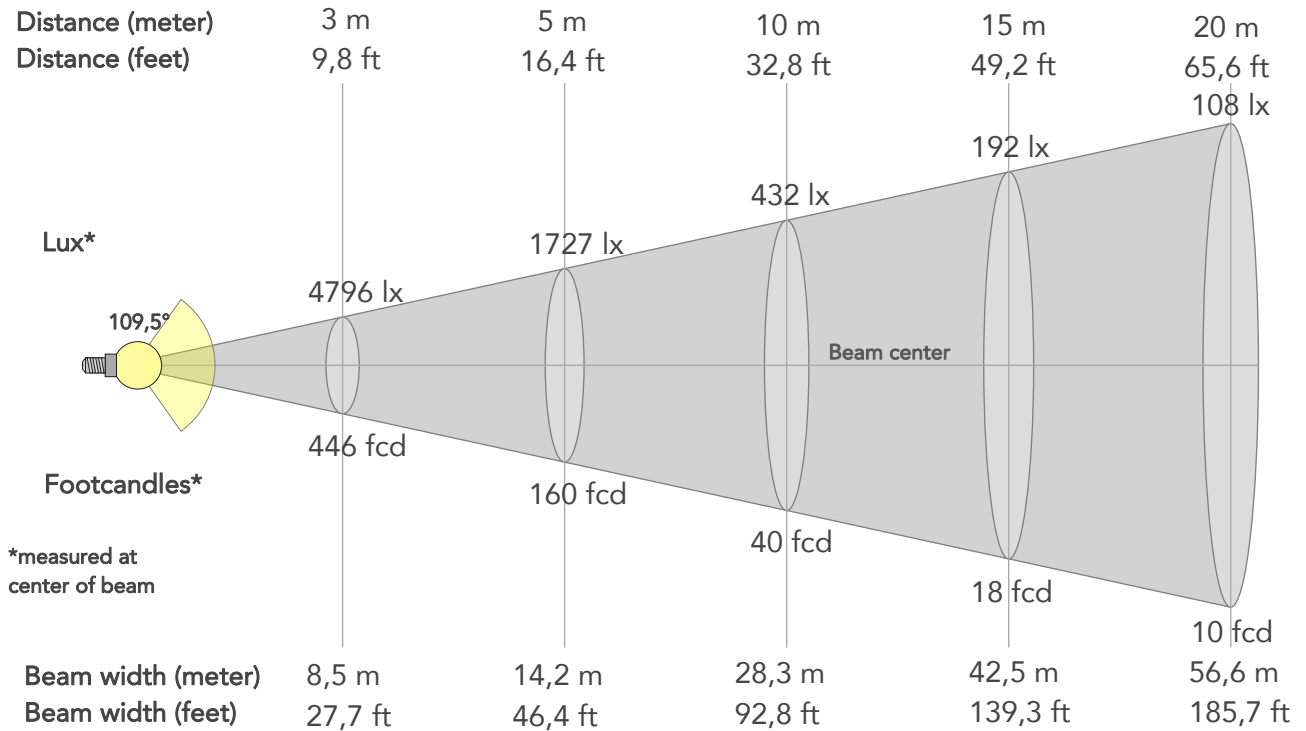
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	1%
2	96	2%	0%
3	94	0%	-1%
4	94	-2%	0%
5	87	-6%	0%
6	91	1%	4%
7	94	3%	1%
8	92	0%	4%
9	89	-2%	9%
10	86	-1%	9%
11	82	4%	11%
12	94	3%	2%
13	92	5%	-1%
14	92	3%	2%
15	82	11%	-9%
16	95	2%	1%



# BEAM DETAILS



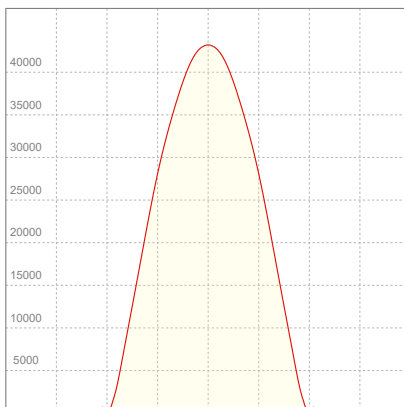
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
109,5°	158,7°	171,4°	80,0%	54,9%



## 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	43167lx	10792lx	4796lx	2698lx	1727lx	767lx	432lx	192lx	108lx	69lx	48lx	27lx	17lx
Footcand.	4010fcd	1003fcd	446fcd	251fcd	160fcd	71fcd	40fcd	18fcd	10fcd	6fcd	4fcd	3fcd	2fcd
Beam wid.	2,8m	5,7m	8,5m	11,3m	14,2m	21,2m	28,3m	42,5m	56,6m	70,8m	84,9m	113,2m	141,5m
Beam wid.	9,3ft	18,7ft	27,7ft	37,1ft	46,4ft	69,6ft	92,8ft	139,3ft	185,7ft	232,1ft	278,5ft	371,4ft	464,2ft

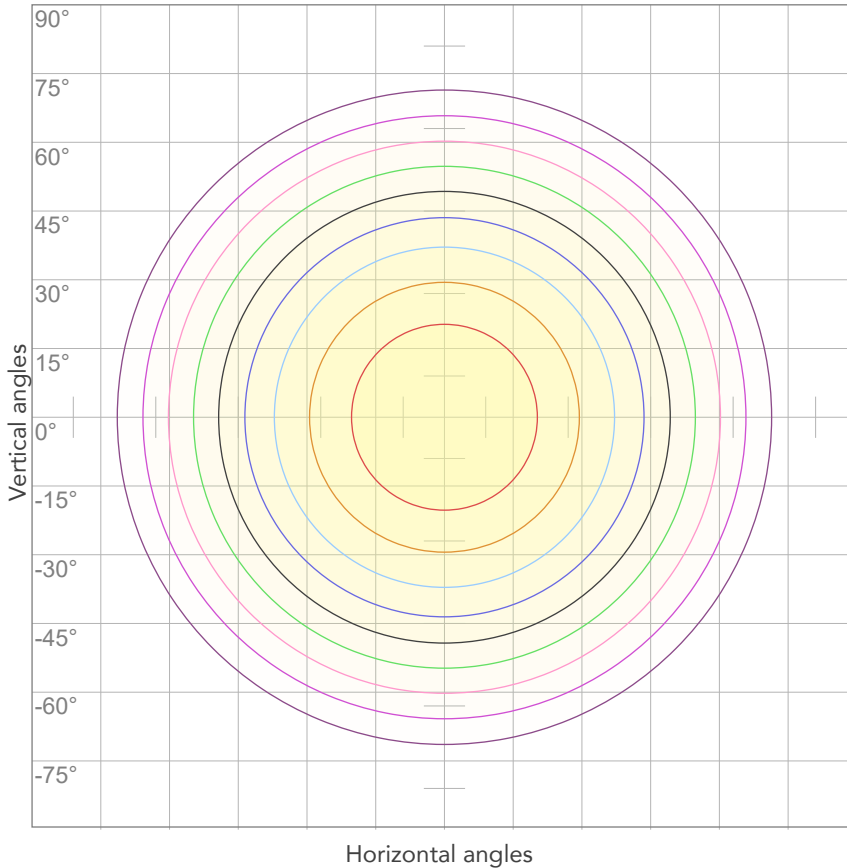
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,91A	1488W	66lm/W

## ISO CANDELA DIAGRAM



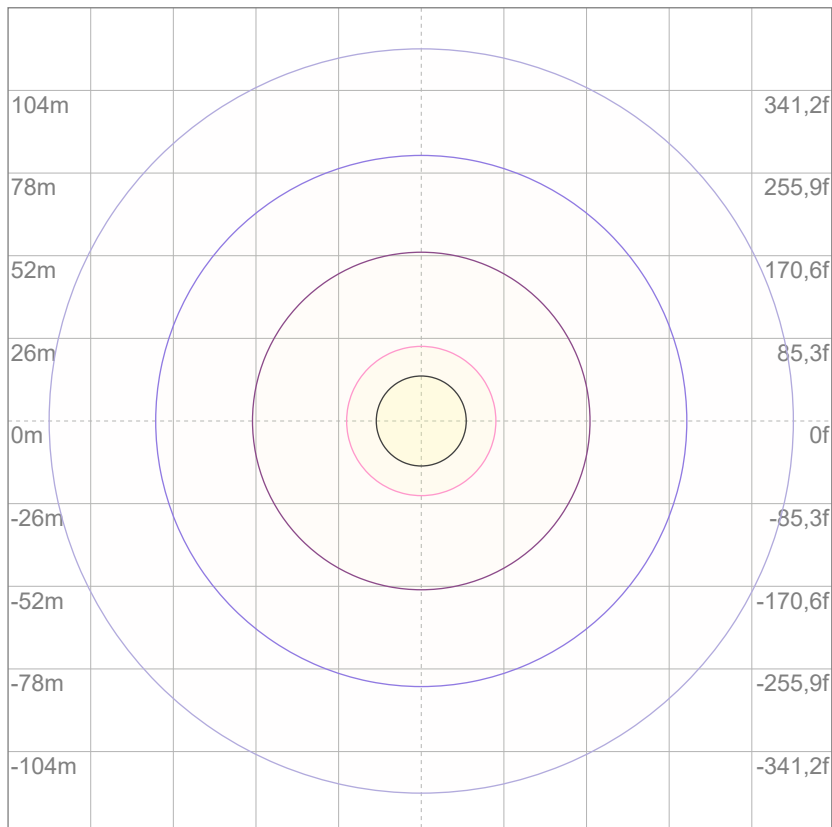
10%	4317 cd
20%	8633 cd
30%	12950 cd
40%	17267 cd
50%	21583 cd
60%	25900 cd
70%	30217 cd
80%	34533 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 43167 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	12,9 lx
5%	21,6 lx
10%	43,2 lx
30%	129 lx
50%	216 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 432 lx

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



Total lumen output:

124753 lm

Peak candela output:

45884 cd

Light quality:

CRI: 95,4

Color temperature:

5623 K

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter LD

Target:

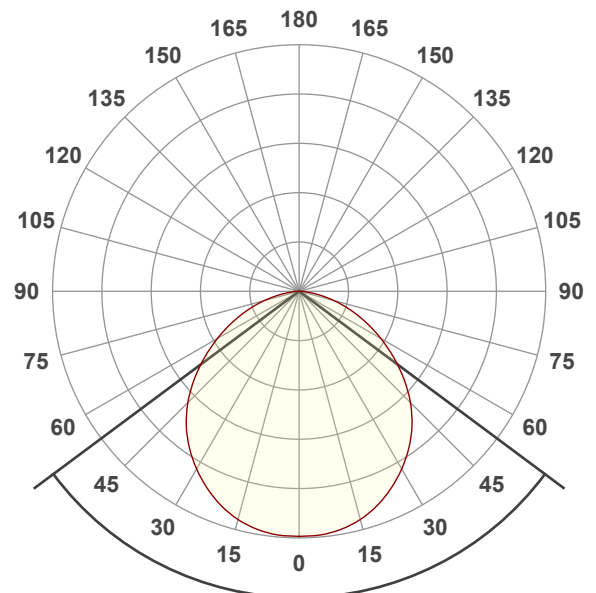
5600K

Operator:

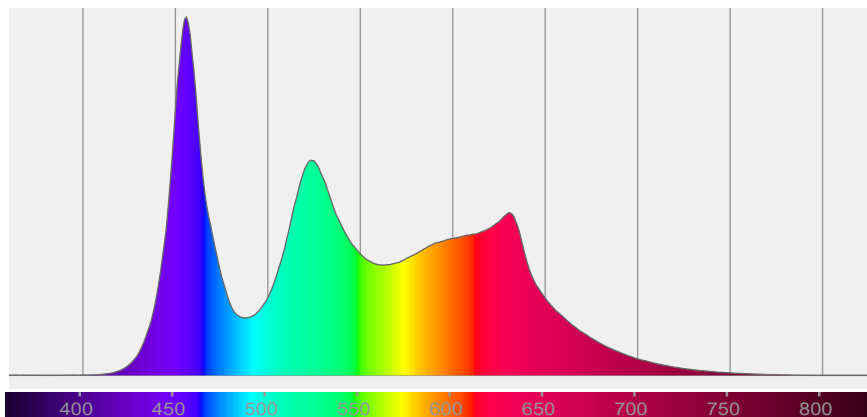
Paolo Carvone

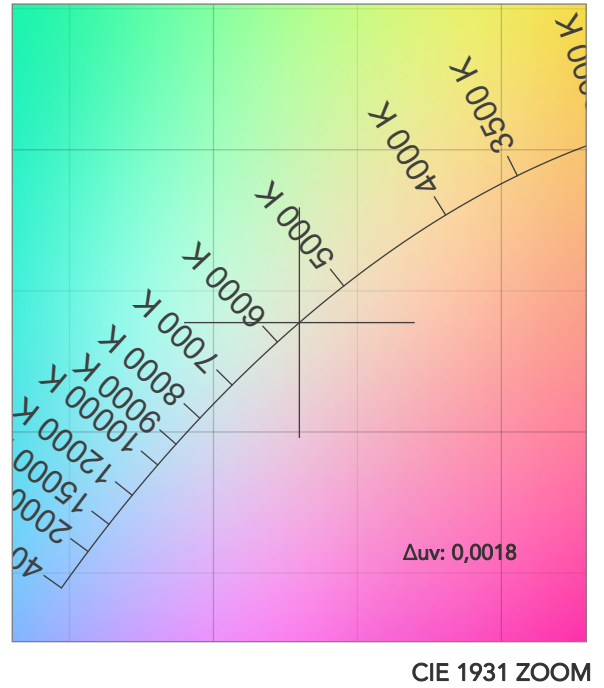
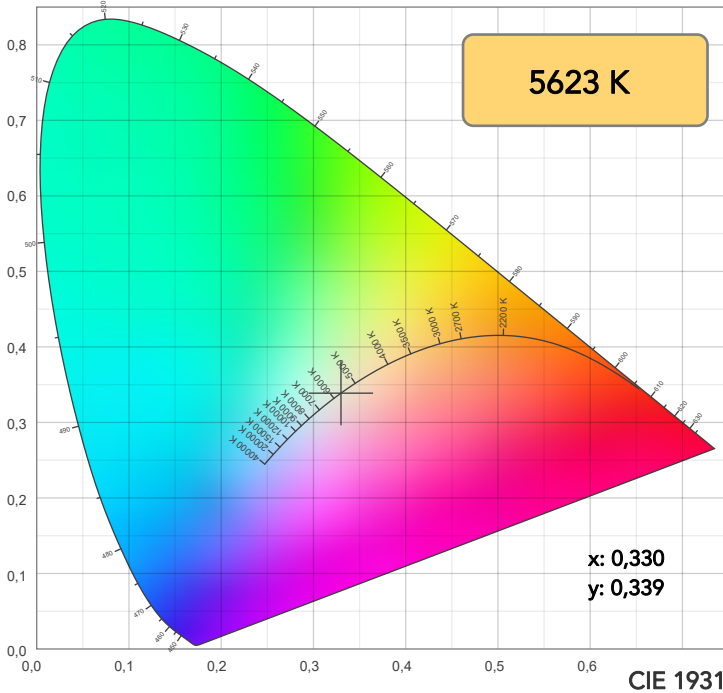
Date and time:

09/06/2022 11:49:58

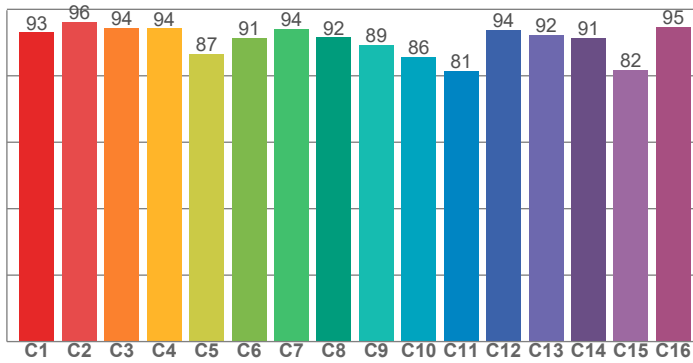


Spectra

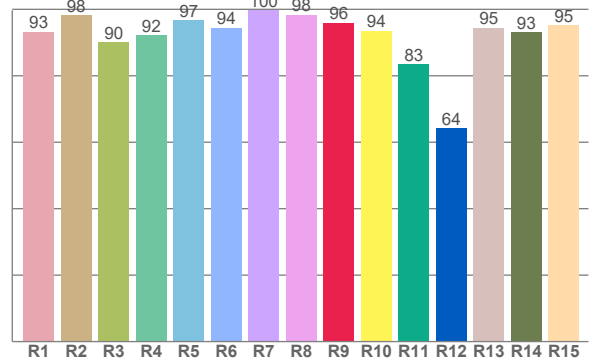




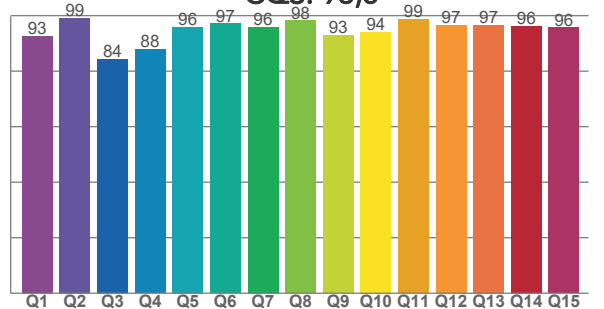
TM30: 90,3



CRI: 95,4 (R1-R8)



CQS: 93,5



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,2	98,1	90,2	92,2	96,6	94,5	99,8	98,3	96,0	93,6	83,5	64,2	94,5	93,0	95,1

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
93,0	96,2	94,3	94,3	86,5	91,4	94,1	91,6	89,3	85,6	81,4	93,8	92,2	91,5	81,7	94,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,6	99,2	84,4	87,9	96,0	97,2	95,9	98,2	92,9	94,2	98,7	96,7	96,6	96,3	95,7

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5623 K	95,4	96,0	90,3	102,6	93,5	92	0,330	0,339	0,0018

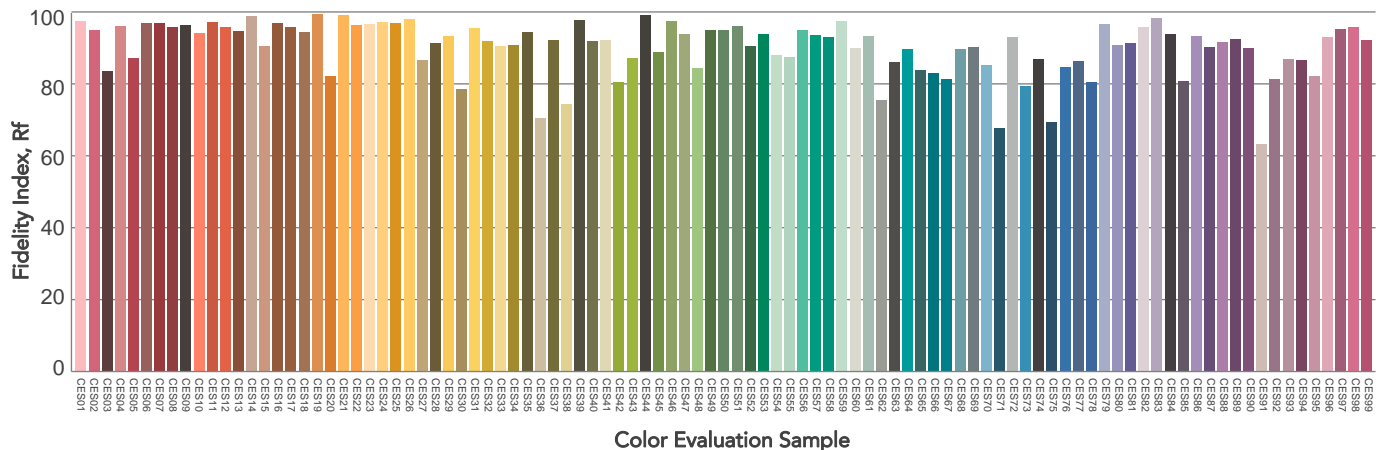
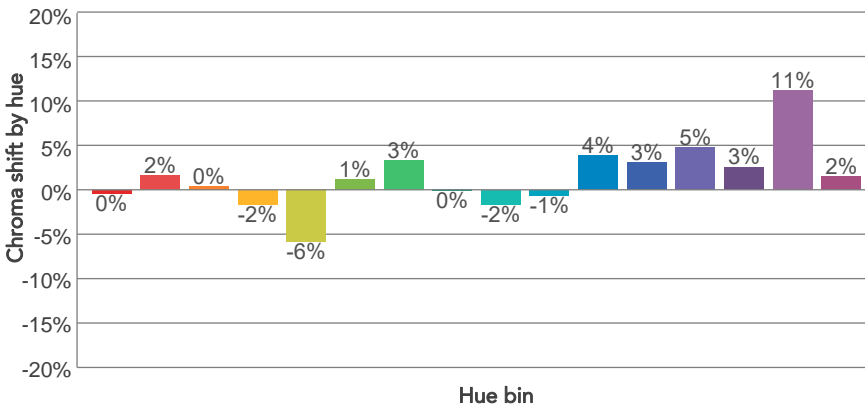
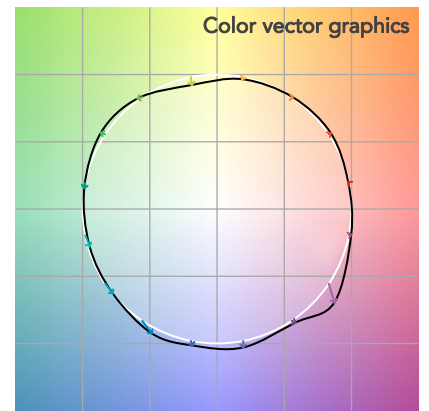
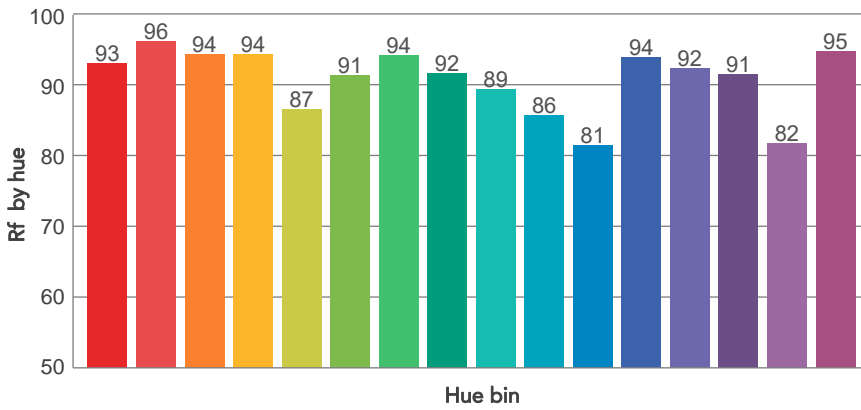
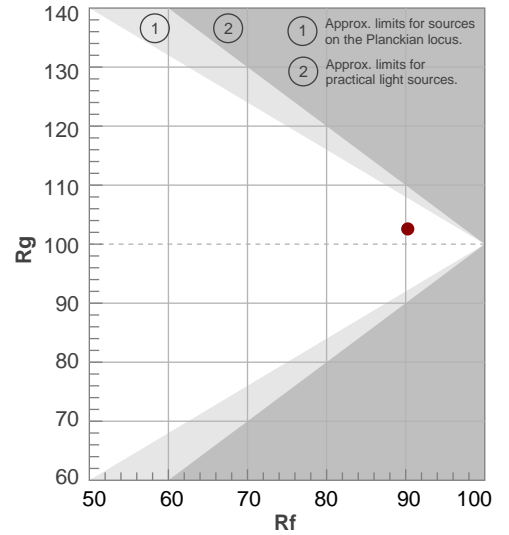


# TM30 DETAILS

**Rf 90,3**  
Fidelity index Rf

**Rg 102,6**  
Gammut index

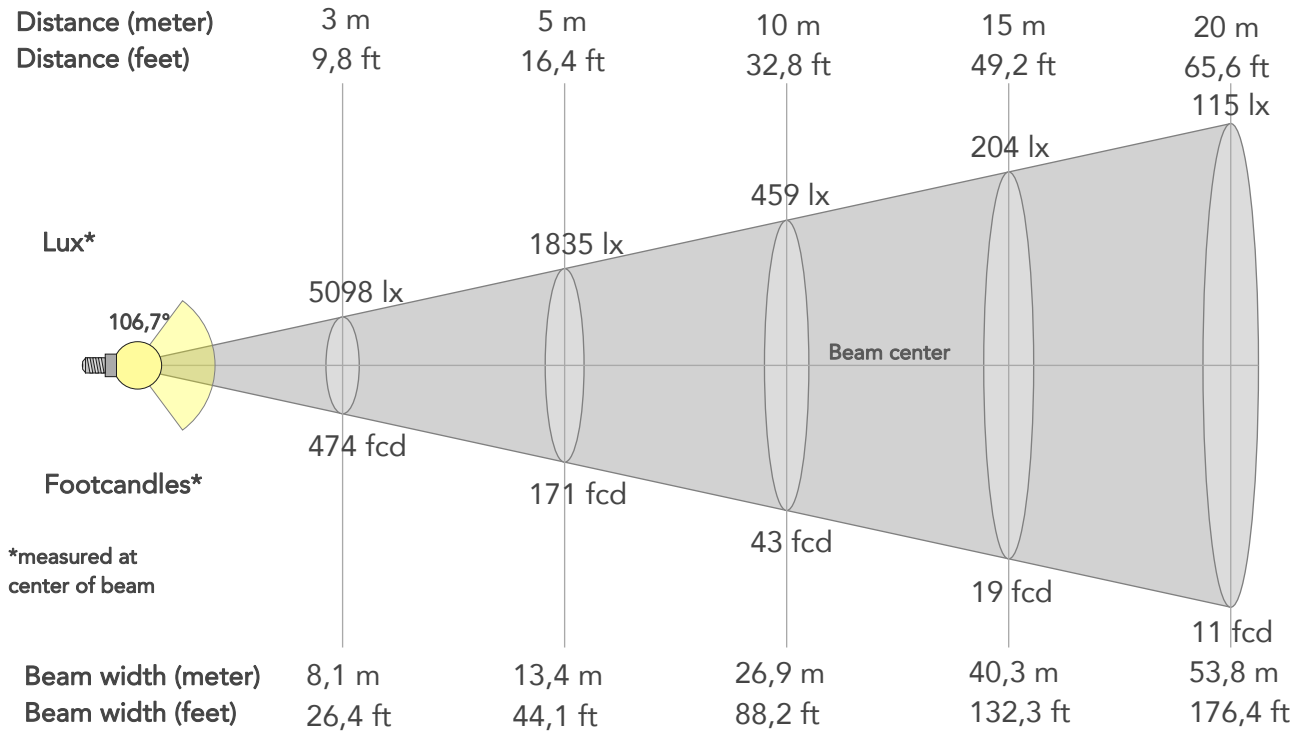
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	1%
2	96	2%	0%
3	94	0%	-1%
4	94	-2%	0%
5	87	-6%	0%
6	91	1%	4%
7	94	3%	1%
8	92	0%	4%
9	89	-2%	9%
10	86	-1%	9%
11	81	4%	11%
12	94	3%	2%
13	92	5%	-1%
14	91	3%	2%
15	82	11%	-9%
16	95	2%	1%



# BEAM DETAILS



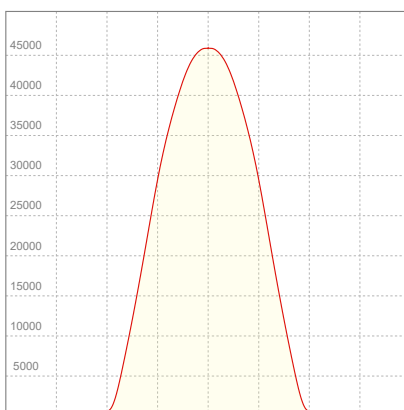
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
106,7°	156,8°	171,5°	80,1%	55,7%



## 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	45884lx	11471lx	5098lx	2868lx	1835lx	816lx	459lx	204lx	115lx	73lx	51lx	29lx	18lx
Footcand.	4263fcd	1066fcd	474fcd	266fcd	171fcd	76fcd	43fcd	19fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	2,7m	5,4m	8,1m	10,8m	13,4m	20,2m	26,9m	40,3m	53,8m	67,2m	80,7m	107,6m	134,5m
Beam wid.	8,9ft	17,8ft	26,4ft	35,2ft	44,1ft	66,2ft	88,2ft	132,3ft	176,4ft	220,5ft	264,6ft	352,9ft	441,1ft

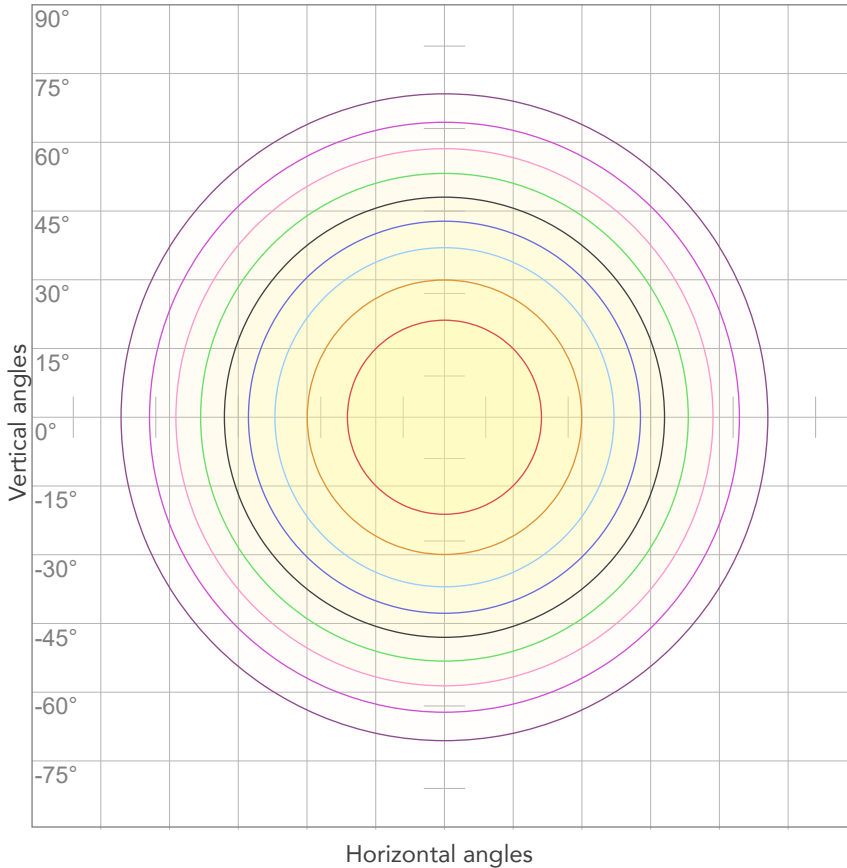
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,91A	1488W	66lm/W

## ISO CANDELA DIAGRAM



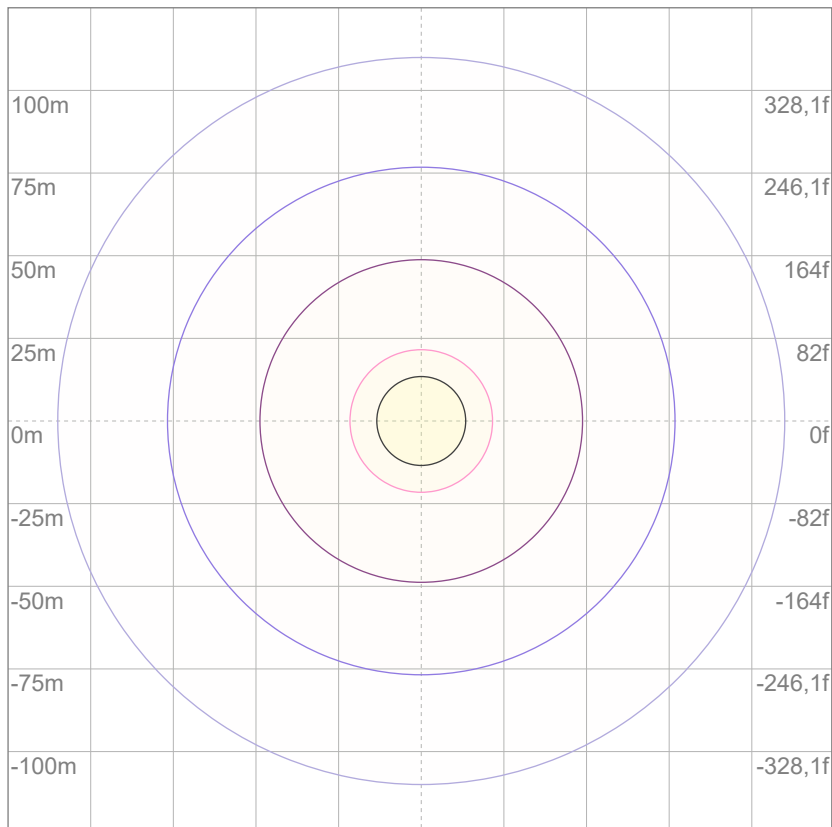
10%	4588 cd
20%	9177 cd
30%	13765 cd
40%	18353 cd
50%	22942 cd
60%	27530 cd
70%	32118 cd
80%	36707 cd

Conditions:

Number of c-planes: 2

Candela at center: 45884 cd

## ISO LUX DIAGRAM



3%	13,8 lx
5%	22,9 lx
10%	45,9 lx
30%	138 lx
50%	229 lx

Conditions:

Number of c-planes: 2

Lux at center: 459 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

94519 lm

Peak candela output:

57236 cd

Light quality:

CRI: 95,4

Color temperature:

5611 K

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter INT

Target:

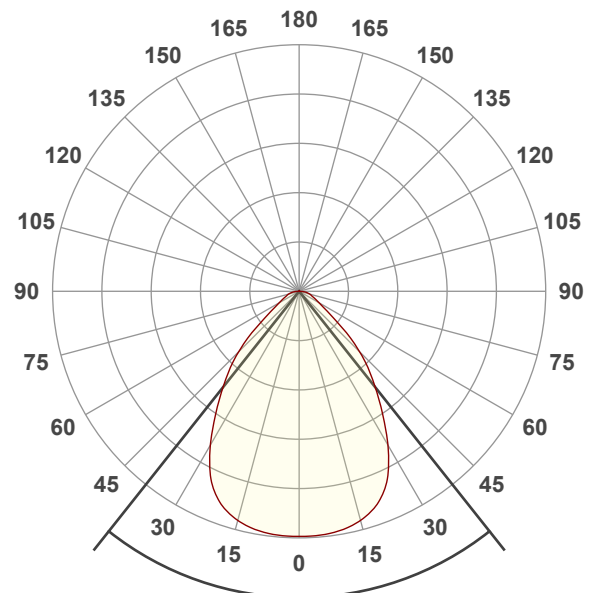
5600K

Operator:

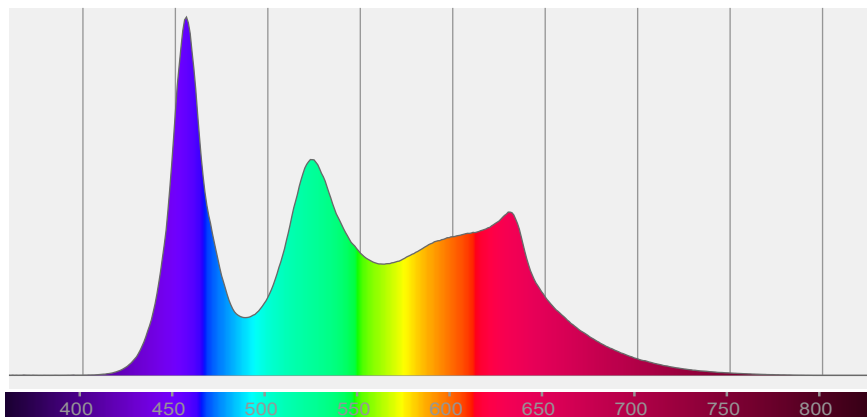
Paolo Carvone

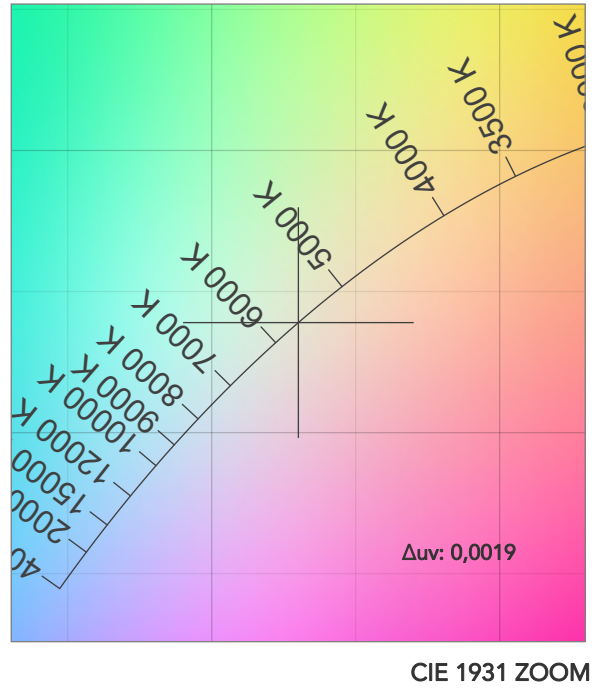
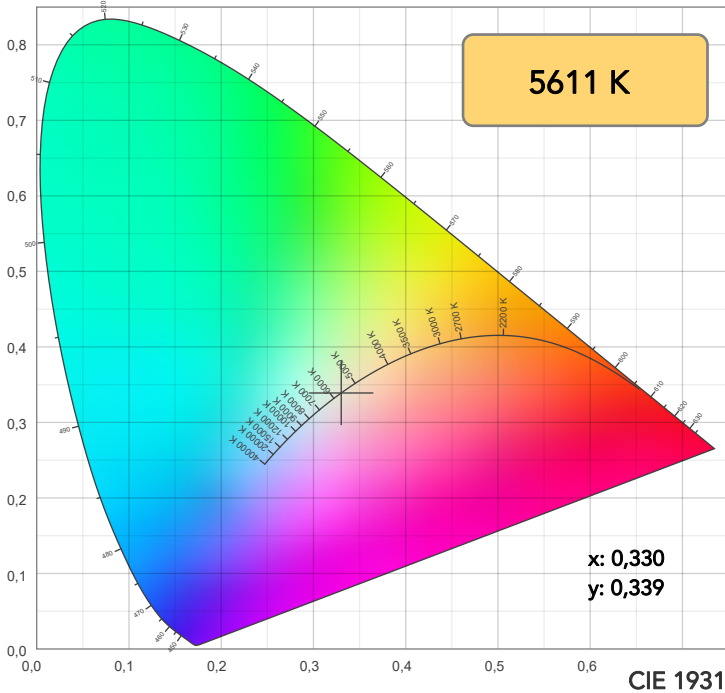
Date and time:

24/06/2022 09:18:09

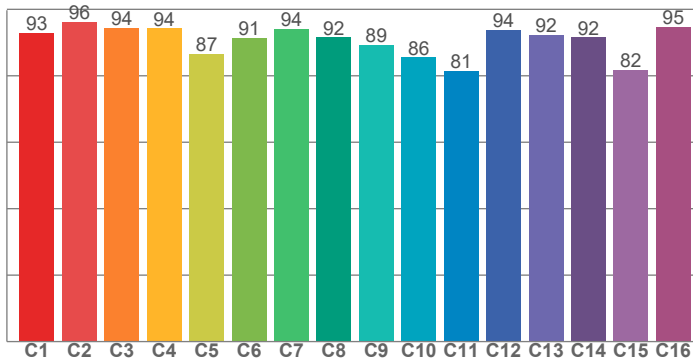


Spectra

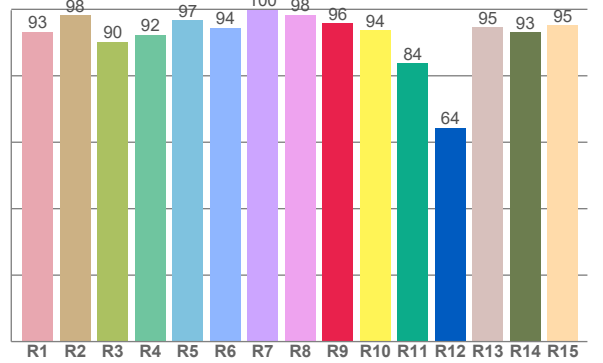




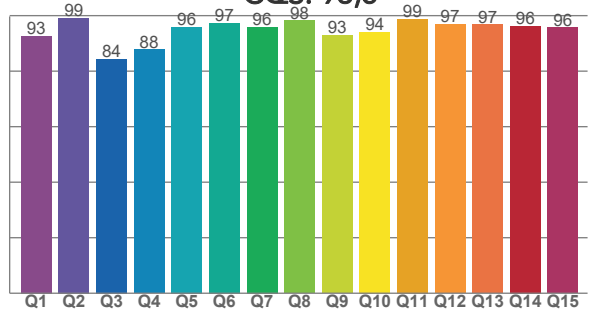
TM30: 90,3



CRI: 95,4 (R1-R8)



CQS: 93,5



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,3	98,1	90,3	92,3	96,6	94,4	99,8	98,4	95,8	93,6	83,7	64,4	94,5	93,1	95,2

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,0	96,3	94,4	94,3	86,6	91,4	94,2	91,6	89,3	85,6	81,5	93,8	92,2	91,5	81,7	94,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,6	99,2	84,4	87,8	95,8	97,3	95,8	98,3	92,9	94,1	98,8	96,9	96,8	96,2	95,7

COLOR PARAMETERS

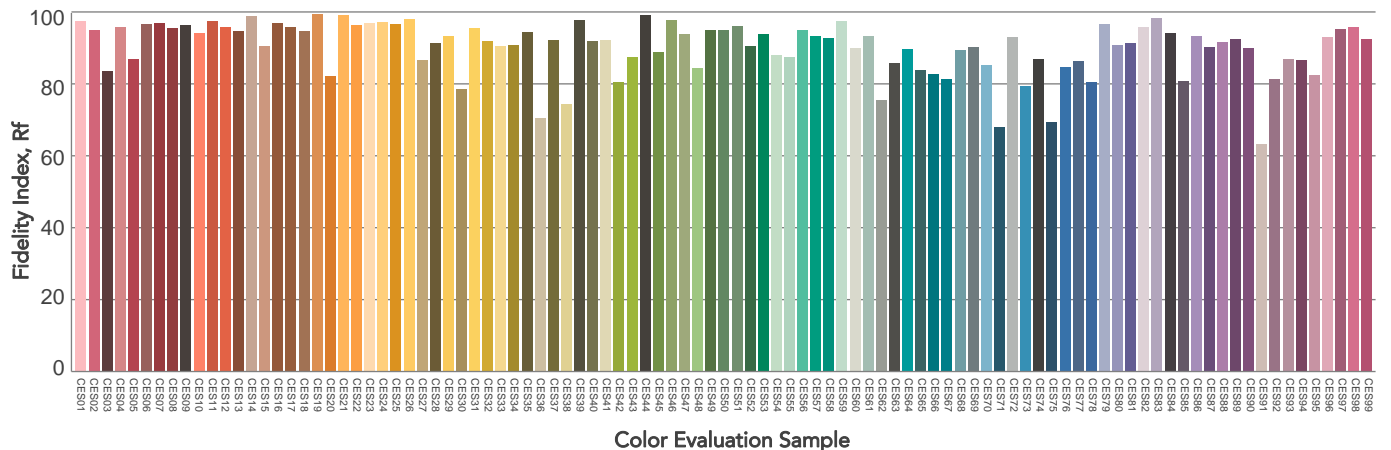
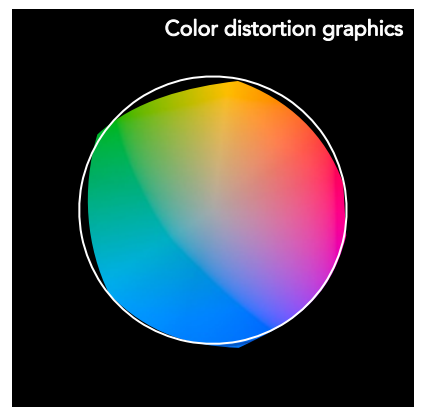
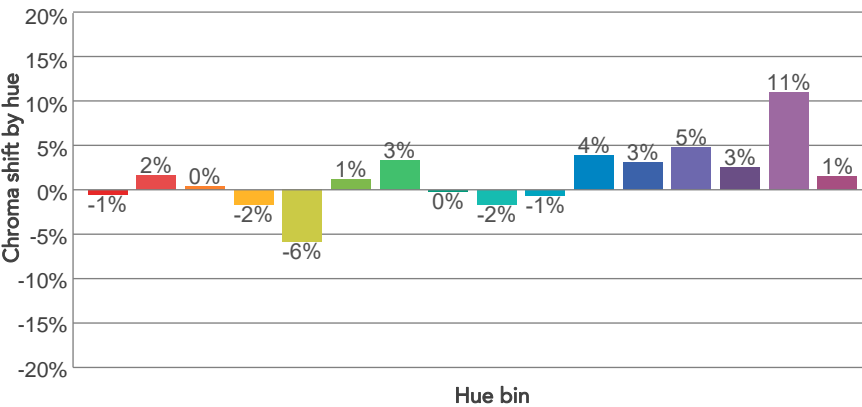
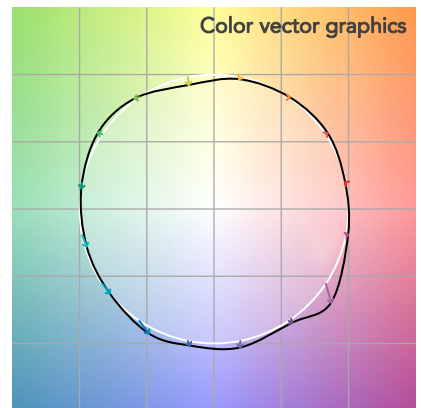
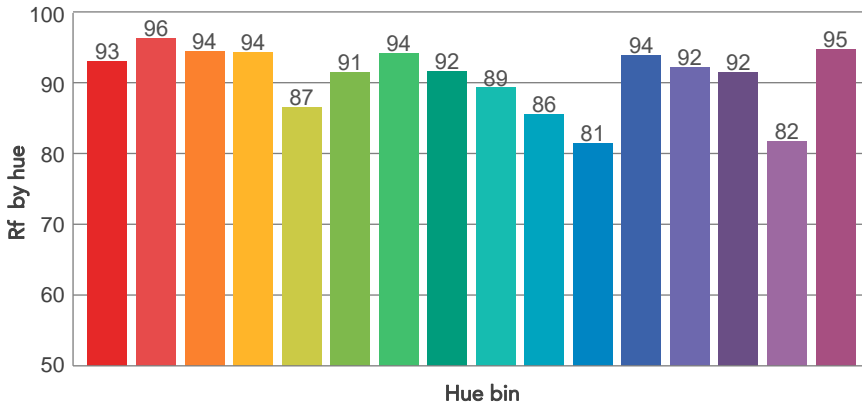
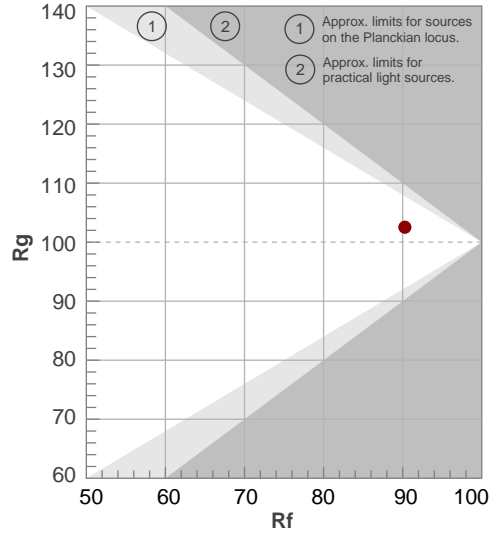
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5611 K	95,4	95,8	90,3	102,5	93,5	93	0,330	0,339	0,0019

# TM30 DETAILS

**Rf 90,3**  
Fidelity index Rf

**Rg 102,5**  
Gammut index

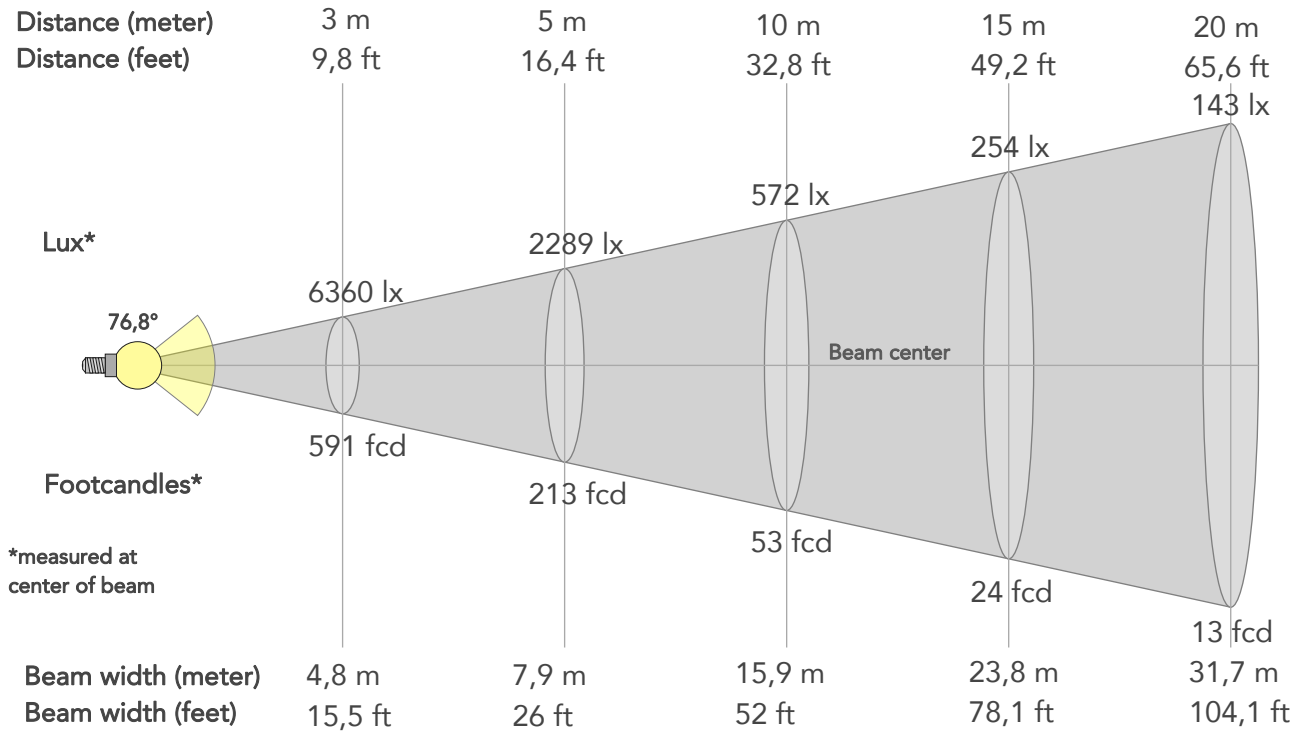
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	-1%	1%
2	96	2%	0%
3	94	0%	-1%
4	94	-2%	1%
5	87	-6%	0%
6	91	1%	4%
7	94	3%	1%
8	92	0%	4%
9	89	-2%	9%
10	86	-1%	9%
11	81	4%	11%
12	94	3%	2%
13	92	5%	-1%
14	92	3%	2%
15	82	11%	-9%
16	95	1%	1%



# BEAM DETAILS



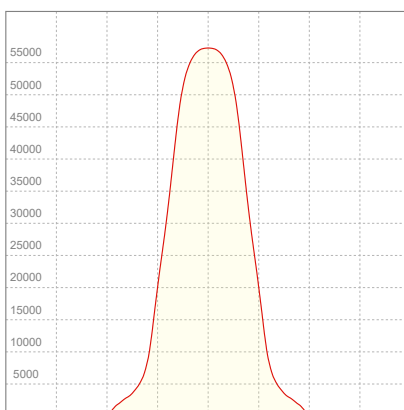
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76,8°	118,6°	166°	91,7%	77,0%



## 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	57236lx	14309lx	6360lx	3577lx	2289lx	1018lx	572lx	254lx	143lx	92lx	64lx	36lx	23lx
Footcand.	5317fcd	1329fcd	591fcd	332fcd	213fcd	95fcd	53fcd	24fcd	13fcd	9fcd	6fcd	3fcd	2fcd
Beam wid.	1,6m	3,2m	4,8m	6,3m	7,9m	11,9m	15,9m	23,8m	31,7m	39,7m	47,6m	63,5m	79,3m
Beam wid.	5,2ft	10,5ft	15,5ft	20,8ft	26ft	39ft	52ft	78,1ft	104,1ft	130,1ft	156,1ft	208,2ft	260,2ft

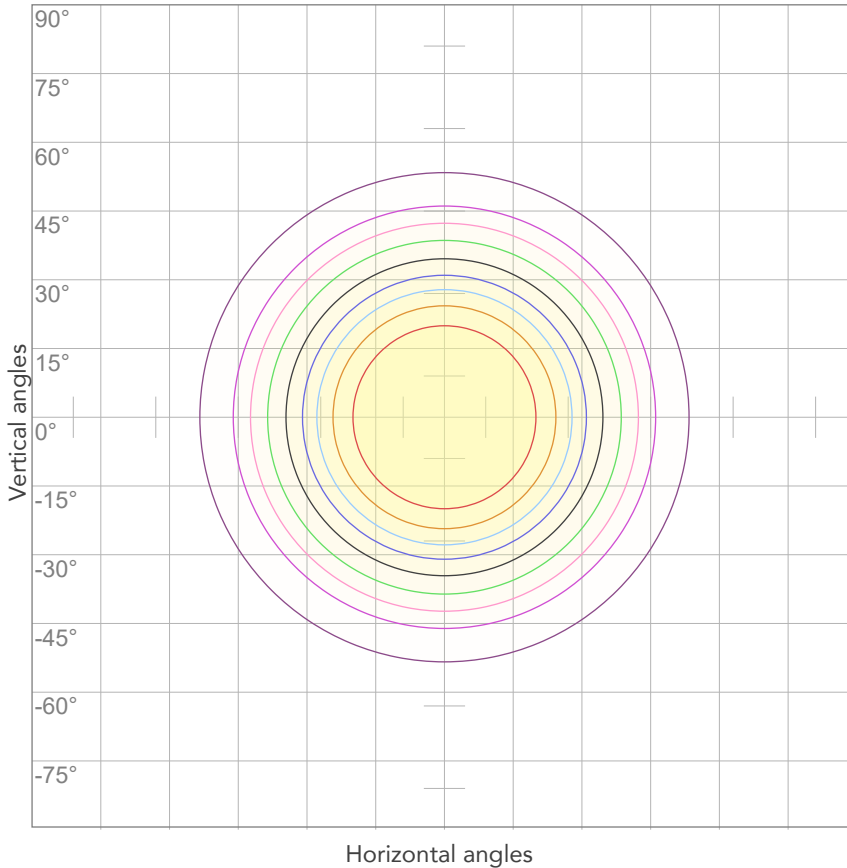
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6.91A	1488W	66lm/W

## ISO CANDELA DIAGRAM



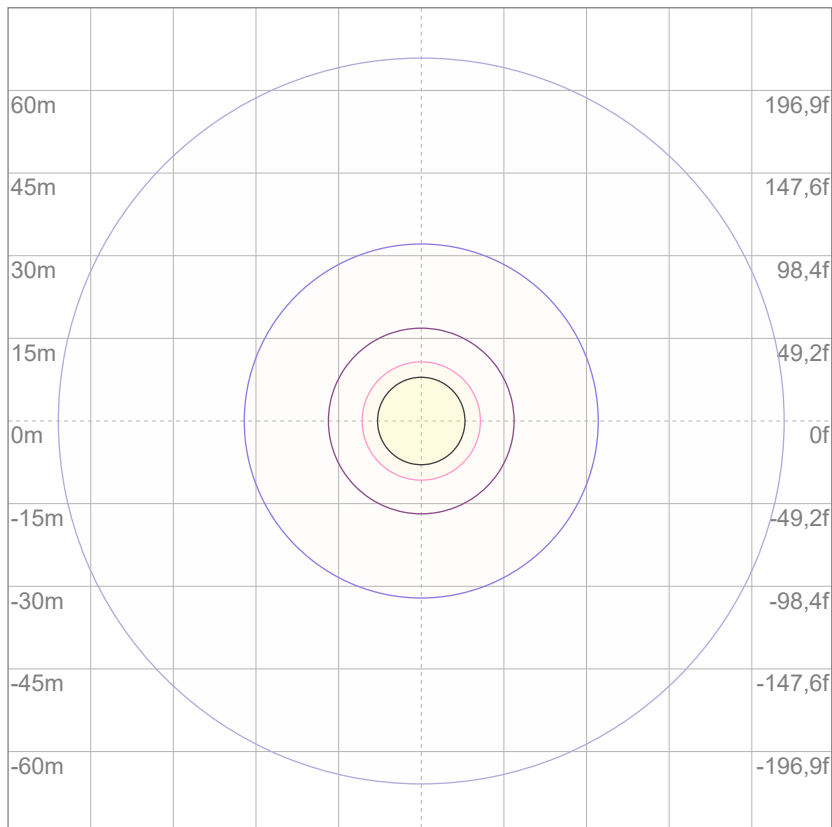
10%	5724 cd
20%	11447 cd
30%	17171 cd
40%	22894 cd
50%	28618 cd
60%	34341 cd
70%	40065 cd
80%	45789 cd

Conditions:

Number of c-planes: 2

Candela at center: 57236 cd

## ISO LUX DIAGRAM



3%	17,2 lx
5%	28,6 lx
10%	57,2 lx
30%	172 lx
50%	286 lx

Conditions:

Number of c-planes: 2

Lux at center: 572 lx

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

Mounting height: 10 meters (33 feet)





Total lumen output:

100302 lm

Peak candela output:

34626 cd

Light quality:

CRI: 93,7

Color temperature:

6010 K

**PRODUCT NAME:**

ECLPANELTWCXL

**MEASUREMENT CONDITIONS:**

Beam angle:

Filter HD

Target:

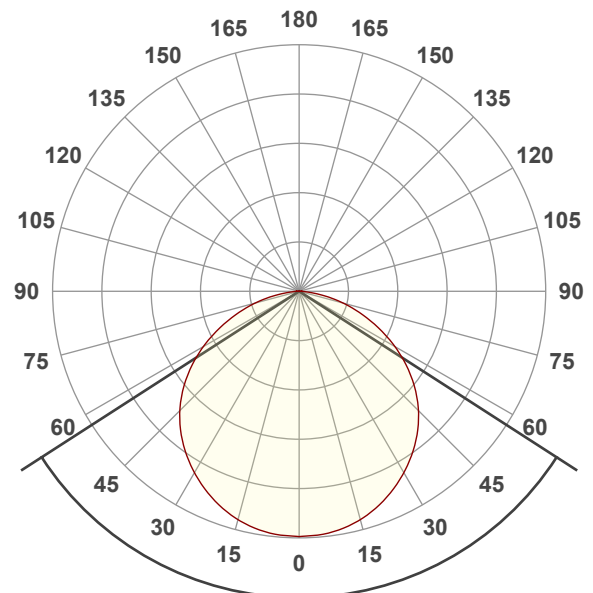
6000K

Operator:

Paolo Carvone

Date and time:

09/06/2022 12:40:36

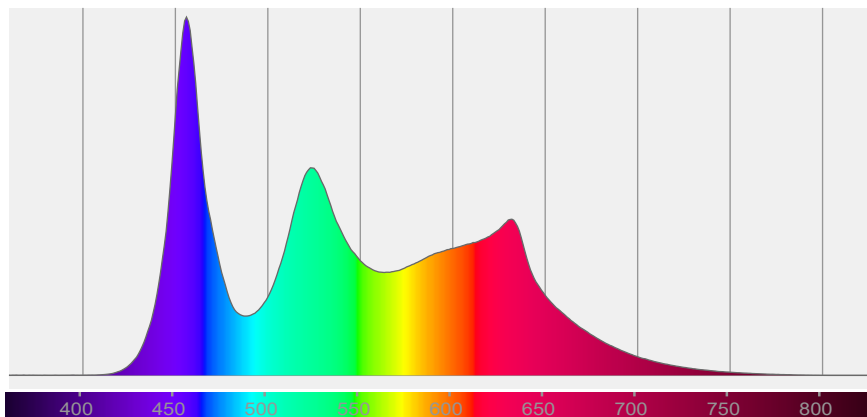


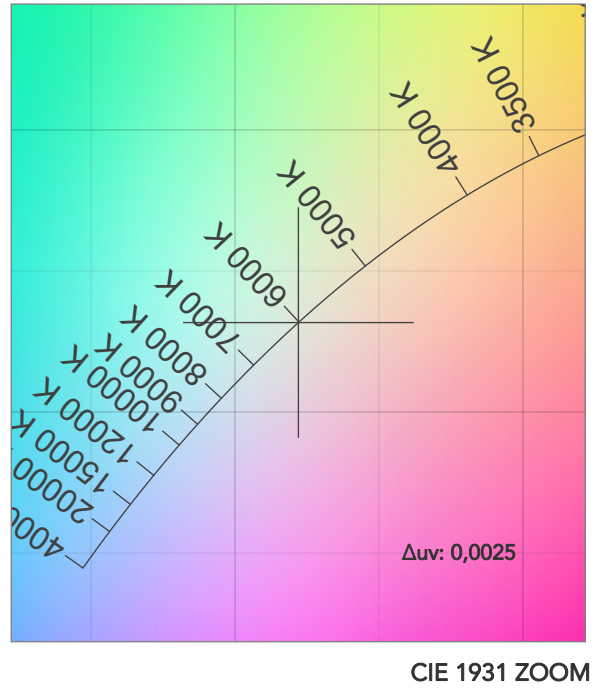
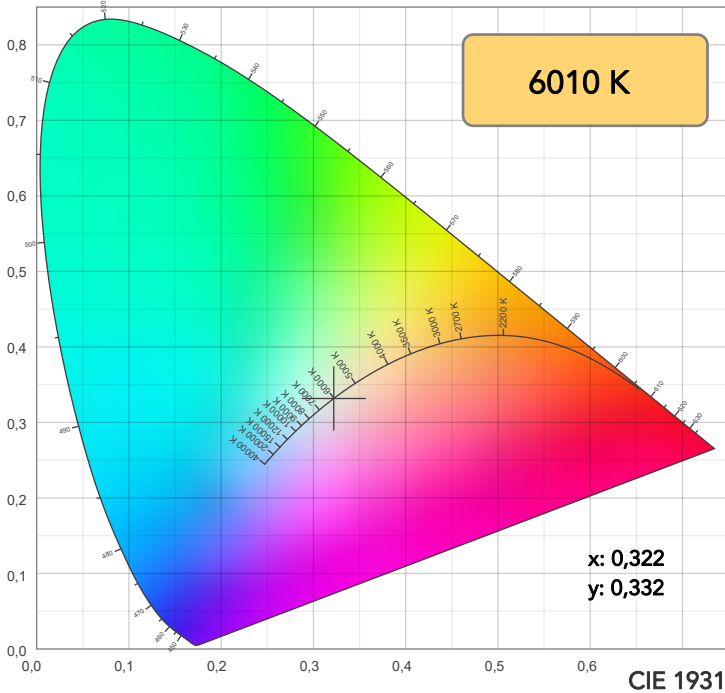
Beam angle 50%: 114,4°

Field angle 10%: 160,4°

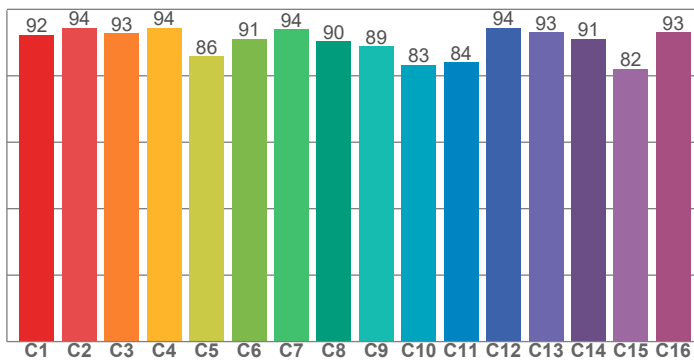
Cut off angle 2.5%: 172,7°

Spectra

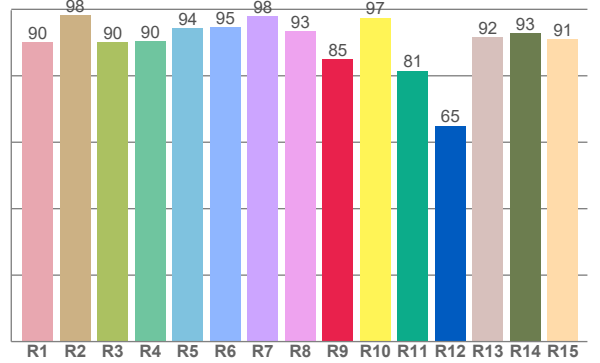




TM30: 89,9



CRI: 93,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
90,1	98,3	90,2	90,3	94,3	94,5	98,0	93,5	85,0	97,5	81,5	65,0	91,6	92,9	91,0

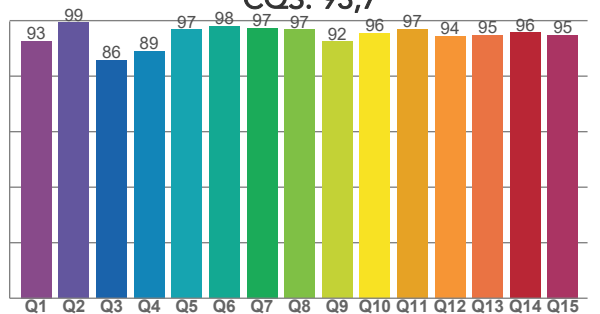
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,2	94,4	92,7	94,4	85,9	91,1	93,9	90,4	88,8	83,3	84,0	94,5	93,1	91,2	82,1	93,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,7	99,3	85,7	89,1	96,8	97,9	97,3	96,8	92,5	95,6	97,0	94,4	94,7	95,7	94,8

CQS: 93,7



COLOR PARAMETERS

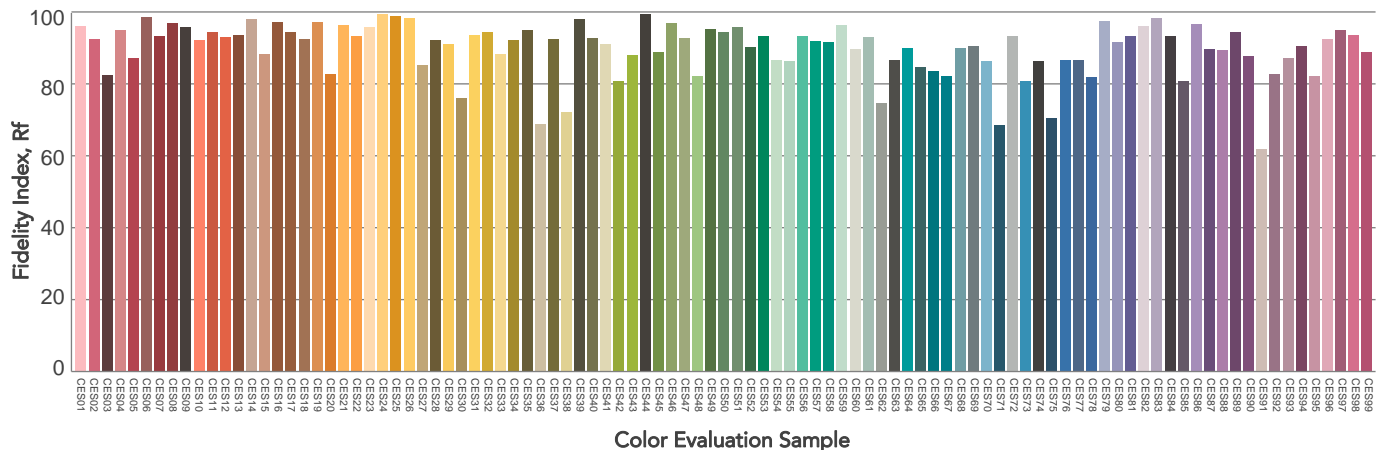
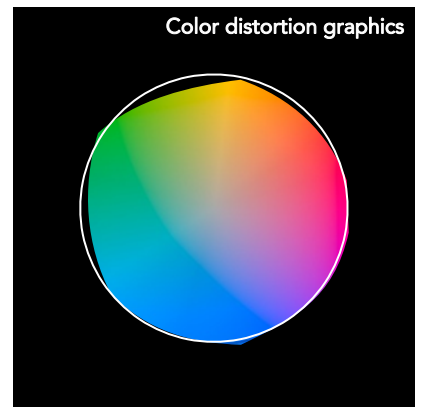
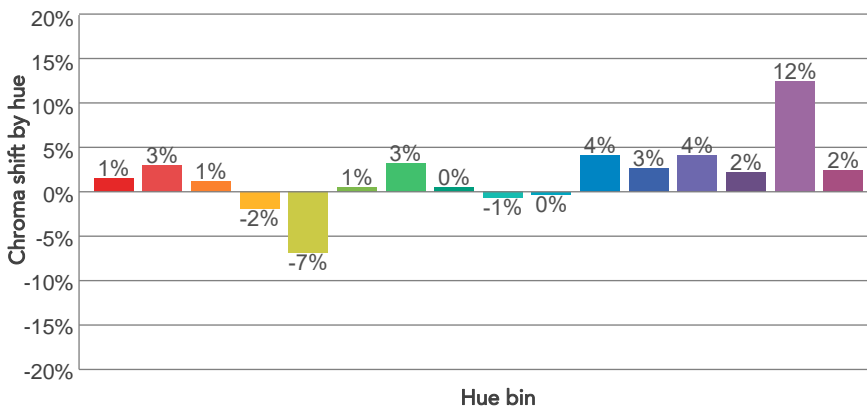
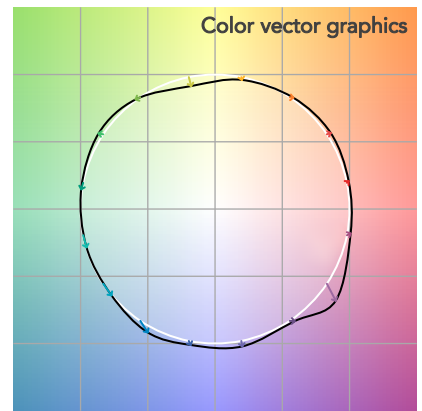
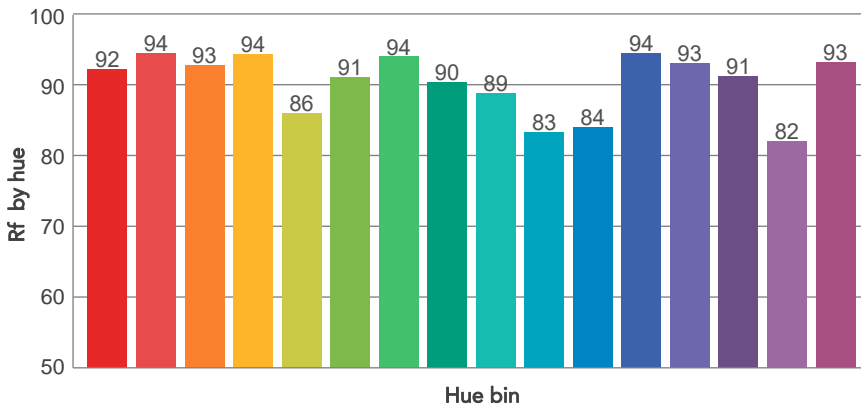
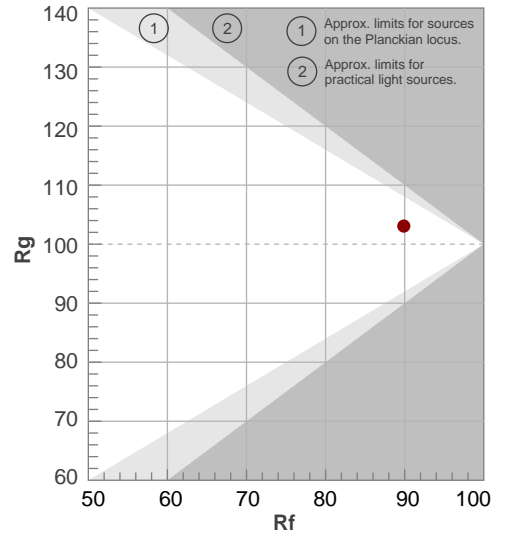
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6010 K	93,7	85,0	89,9	103,1	93,7	93	0,322	0,332	0,0025

# TM30 DETAILS

**Rf 89,9**  
Fidelity index Rf

**Rg 103,1**  
Gammut index

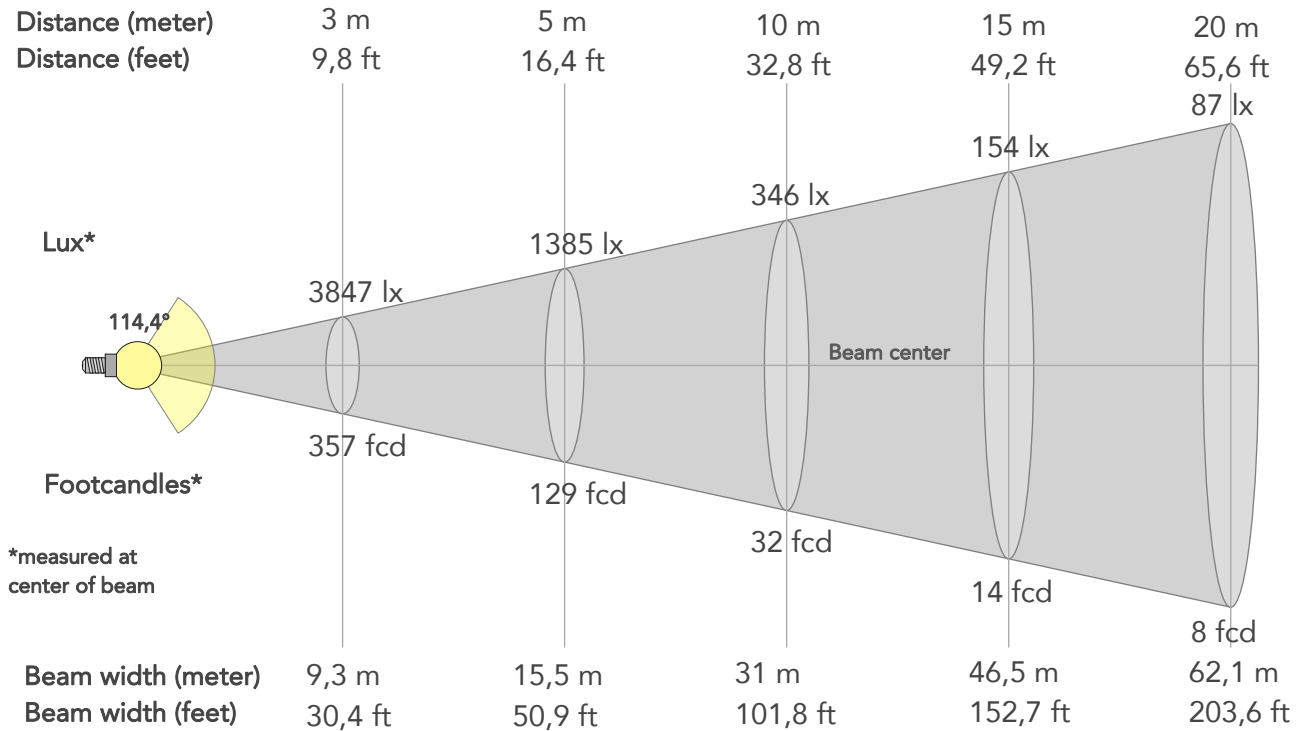
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	1%	1%
2	94	3%	-1%
3	93	1%	-2%
4	94	-2%	-1%
5	86	-7%	0%
6	91	1%	4%
7	94	3%	1%
8	90	0%	5%
9	89	-1%	9%
10	83	0%	11%
11	84	4%	9%
12	94	3%	2%
13	93	4%	0%
14	91	2%	3%
15	82	12%	-7%
16	93	2%	2%



# BEAM DETAILS



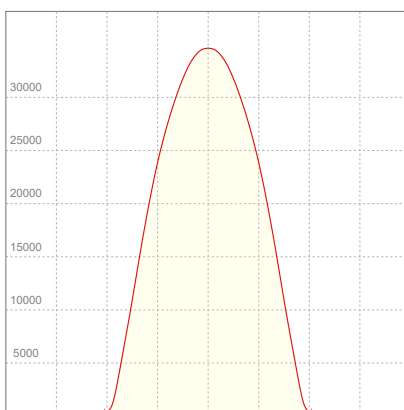
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,4°	160,4°	172,7°	79,2%	53,5%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	34626lx	8657lx	3847lx	2164lx	1385lx	616lx	346lx	154lx	87lx	55lx	38lx	22lx	14lx
Footcand.	3217fcd	804fcd	357fcd	201fcd	129fcd	57fcd	32fcd	14fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	3,1m	6,2m	9,3m	12,4m	15,5m	23,3m	31m	46,5m	62,1m	77,6m	93,1m	124,1m	155,2m
Beam wid.	10,2ft	20,5ft	30,4ft	40,7ft	50,9ft	76,3ft	101,8ft	152,7ft	203,6ft	254,5ft	305,3ft	407,1ft	508,9ft

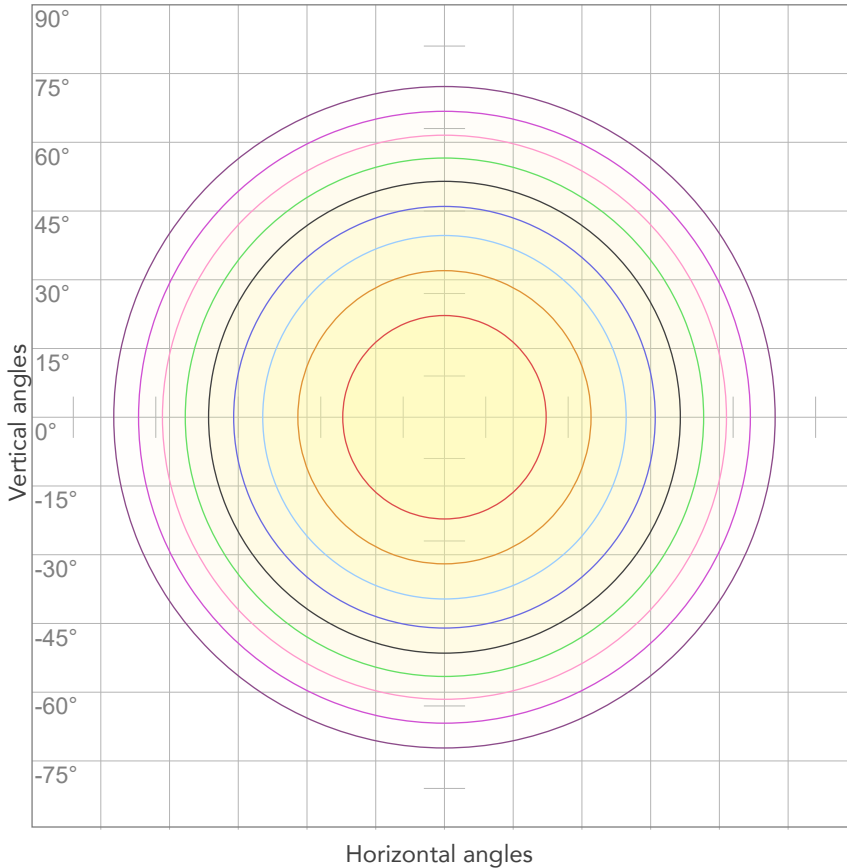
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,88A	1477W	67lm/W

## ISO CANDELA DIAGRAM



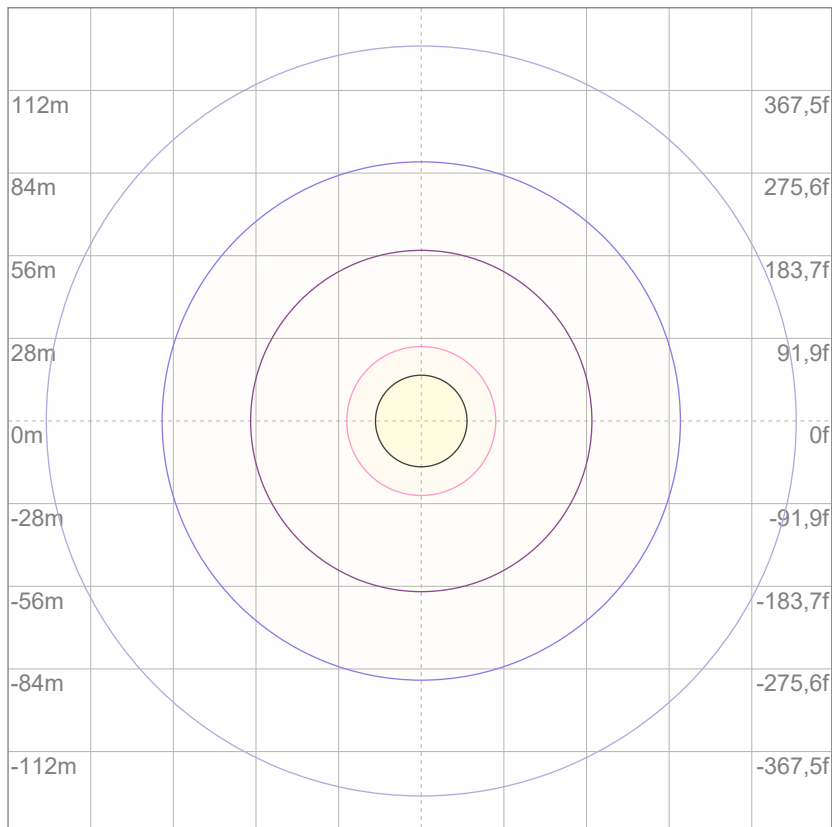
10%	3463 cd
20%	6925 cd
30%	10388 cd
40%	13850 cd
50%	17313 cd
60%	20776 cd
70%	24238 cd
80%	27701 cd

Conditions:

Number of c-planes: 2

Candela at center: 34626 cd

## ISO LUX DIAGRAM



3%	10,4 lx
5%	17,3 lx
10%	34,6 lx
30%	104 lx
50%	173 lx

Conditions:

Number of c-planes: 2

Lux at center: 346 lx

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



Total lumen output:

117154 lm

Peak candela output:

42648 cd

Light quality:

CRI: 95,4

Color temperature:

6004 K

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter MD

Target:

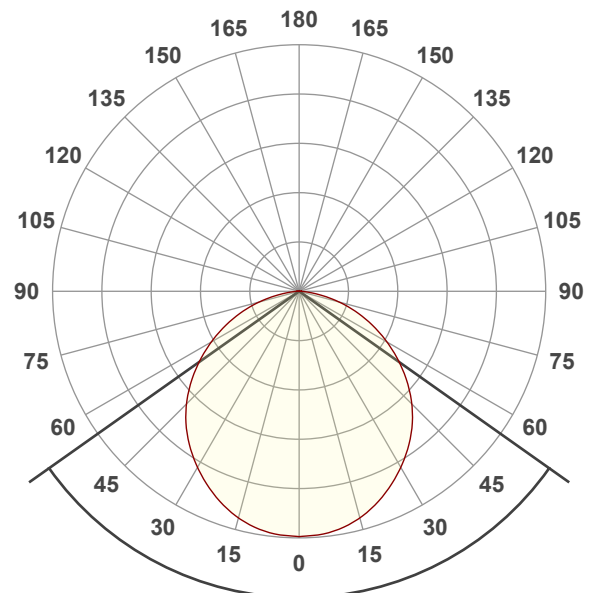
6000K

Operator:

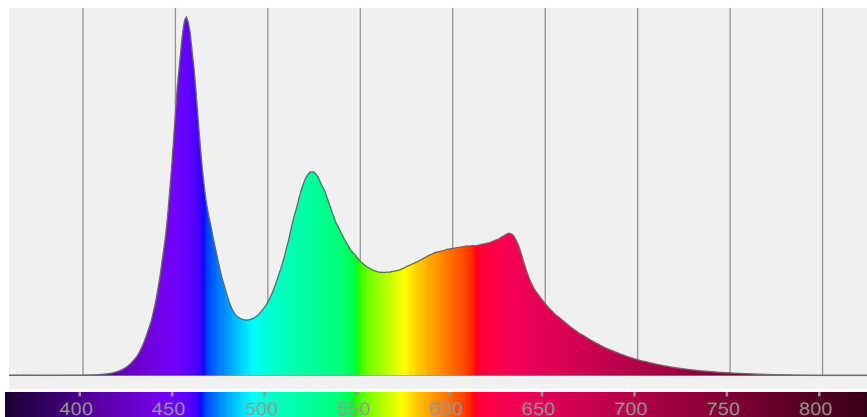
Paolo Carvone

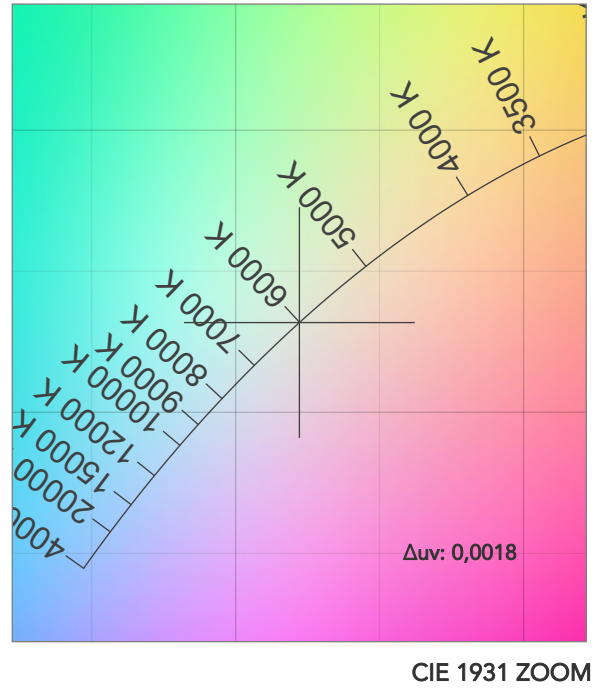
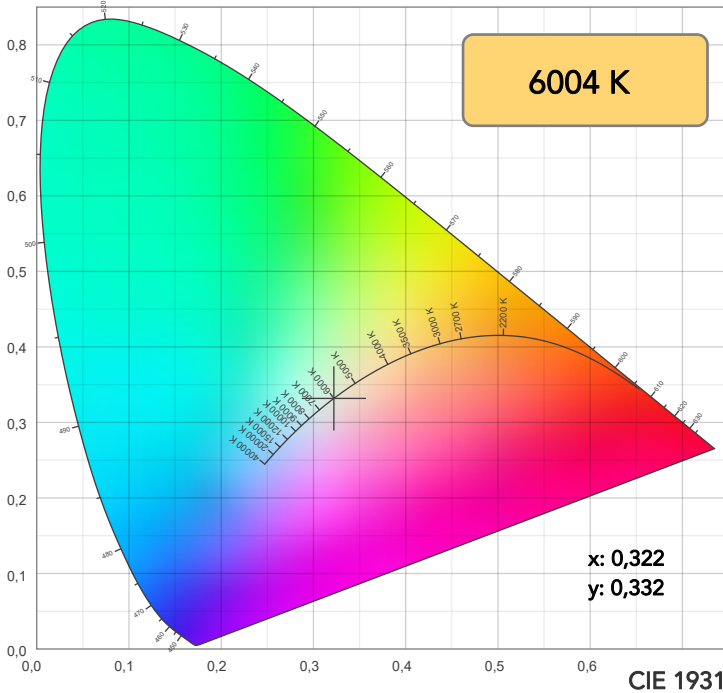
Date and time:

09/06/2022 11:12:29

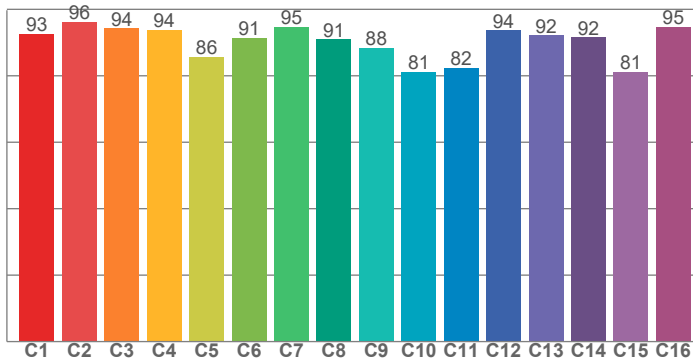


Spectra

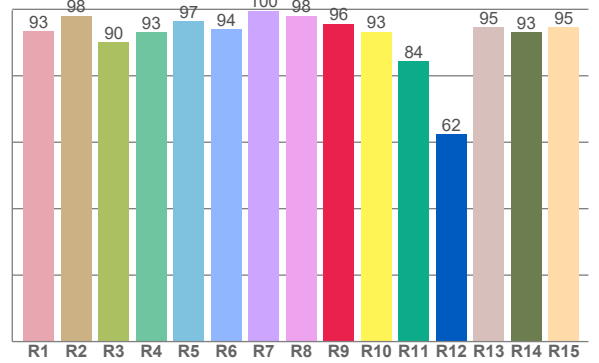




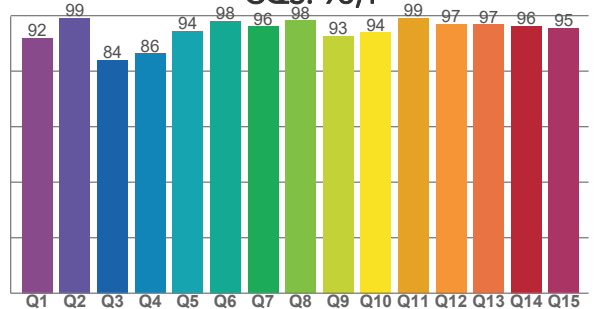
TM30: 89,8



CRI: 95,4 (R1-R8)



CQS: 93,1



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,4	98,1	90,1	93,2	96,5	94,1	99,6	98,0	95,7	93,2	84,4	62,4	94,6	93,0	94,7

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,6	96,2	94,2	93,8	85,8	91,4	94,8	90,9	88,3	81,1	82,3	93,7	92,1	91,6	81,1	94,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,9	99,2	83,9	86,4	94,5	98,1	96,0	98,3	92,7	93,9	99,0	97,0	96,8	96,2	95,4

COLOR PARAMETERS

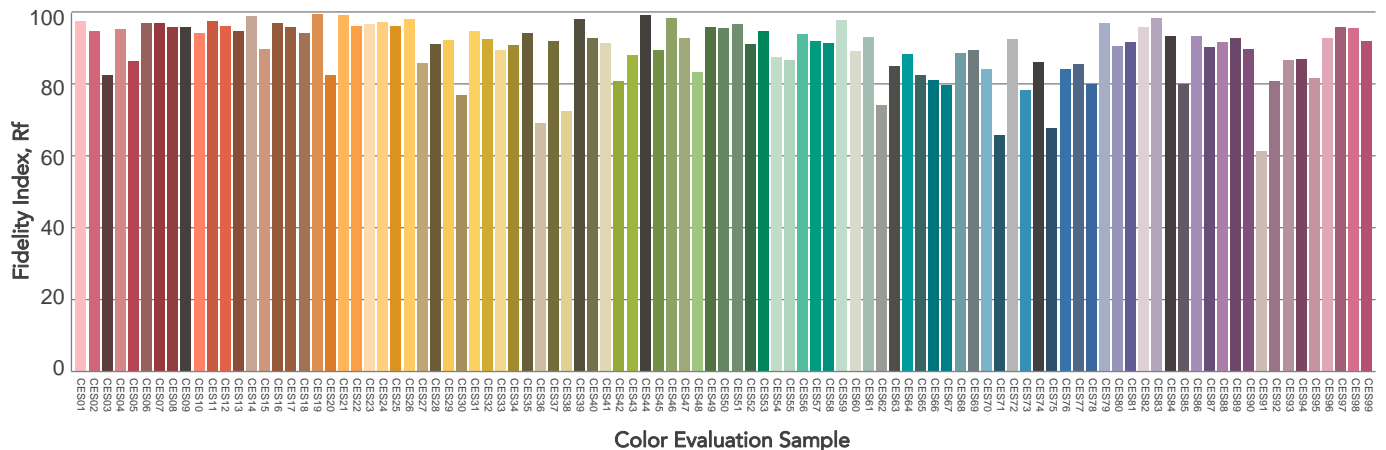
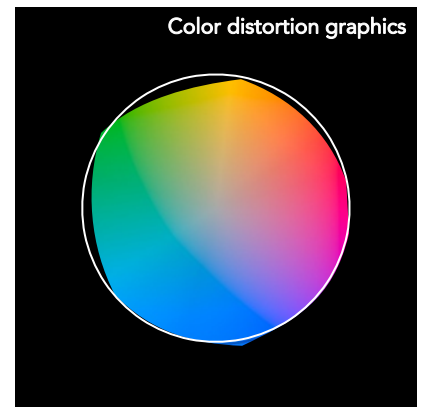
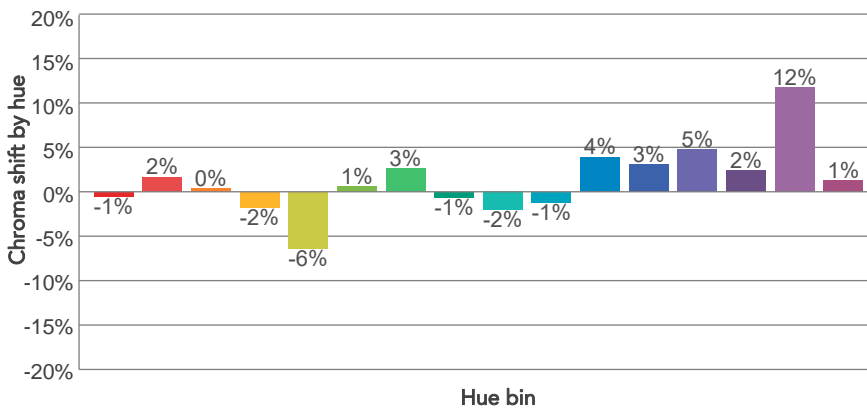
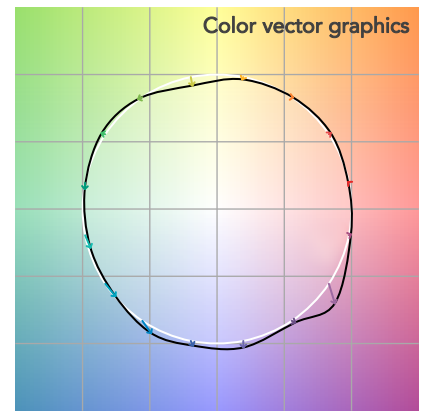
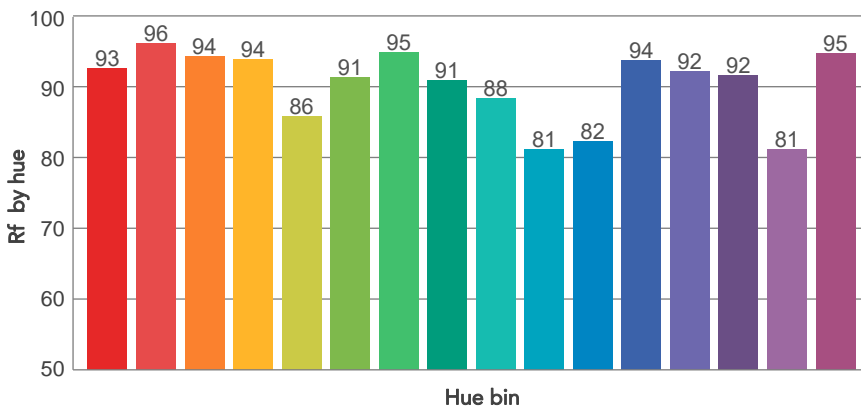
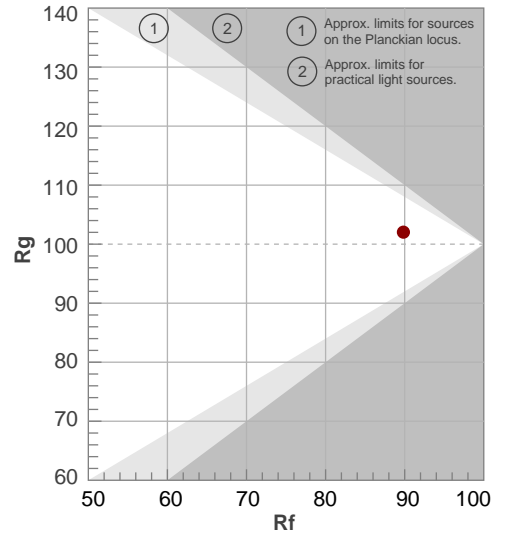
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6004 K	95,4	95,7	89,8	102,0	93,1	93	0,322	0,332	0,0018

# TM30 DETAILS

**Rf 89,8**  
Fidelity index Rf

**Rg 102,0**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	-1%	1%
2	96	2%	0%
3	94	0%	-1%
4	94	-2%	0%
5	86	-6%	0%
6	91	1%	3%
7	95	3%	1%
8	91	-1%	5%
9	88	-2%	10%
10	81	-1%	12%
11	82	4%	11%
12	94	3%	2%
13	92	5%	-1%
14	92	2%	2%
15	81	12%	-10%
16	95	1%	1%

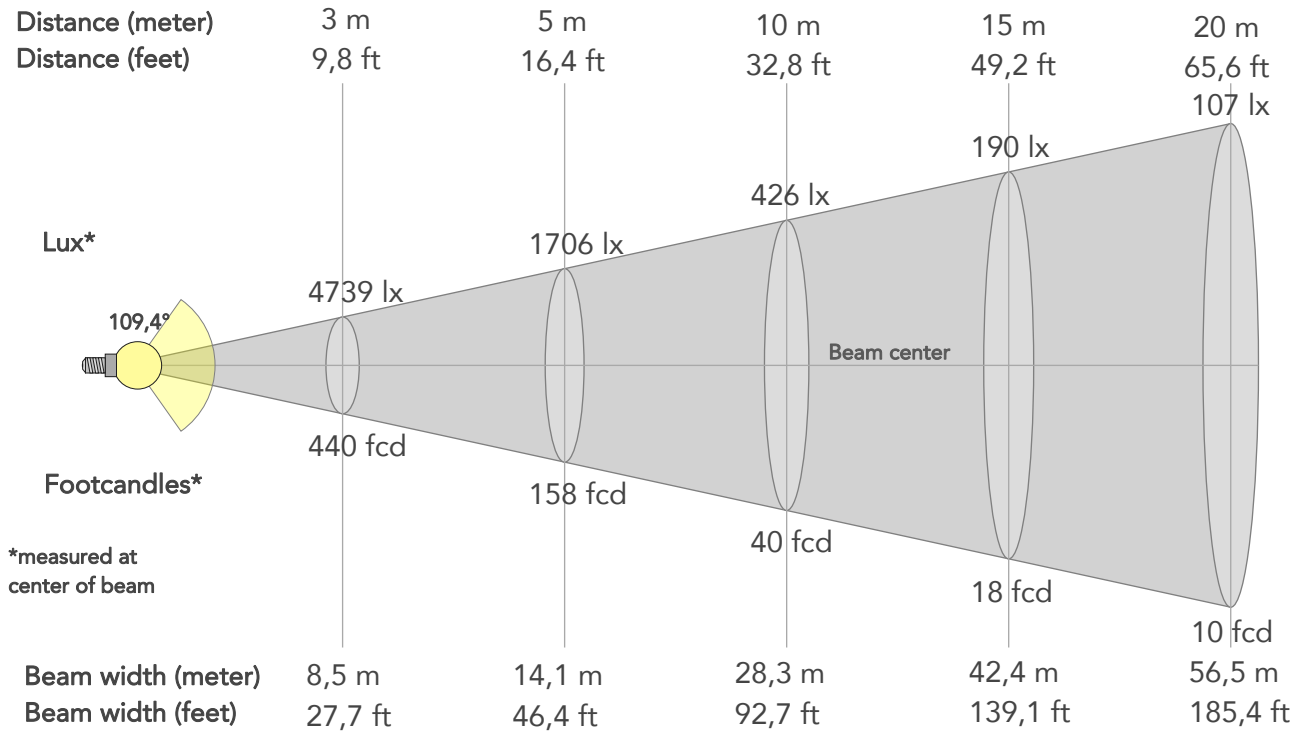




# BEAM DETAILS



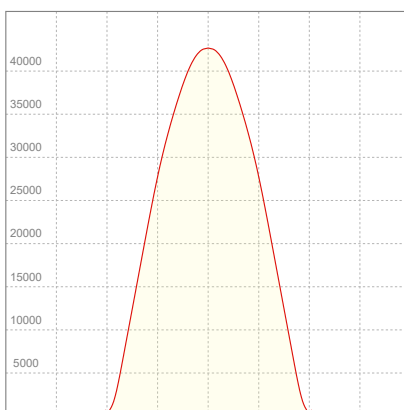
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
109,4°	158,7°	172,3°	80,0%	54,8%



## 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	42648lx	10662lx	4739lx	2666lx	1706lx	758lx	426lx	190lx	107lx	68lx	47lx	27lx	17lx
Footcand.	3962fcd	991fcd	440fcd	248fcd	158fcd	70fcd	40fcd	18fcd	10fcd	6fcd	4fcd	2fcd	2fcd
Beam wid.	2,8m	5,7m	8,5m	11,3m	14,1m	21,2m	28,3m	42,4m	56,5m	70,7m	84,8m	113,1m	141,3m
Beam wid.	9,3ft	18,7ft	27,7ft	37ft	46,4ft	69,5ft	92,7ft	139,1ft	185,4ft	231,8ft	278,2ft	370,9ft	463,6ft

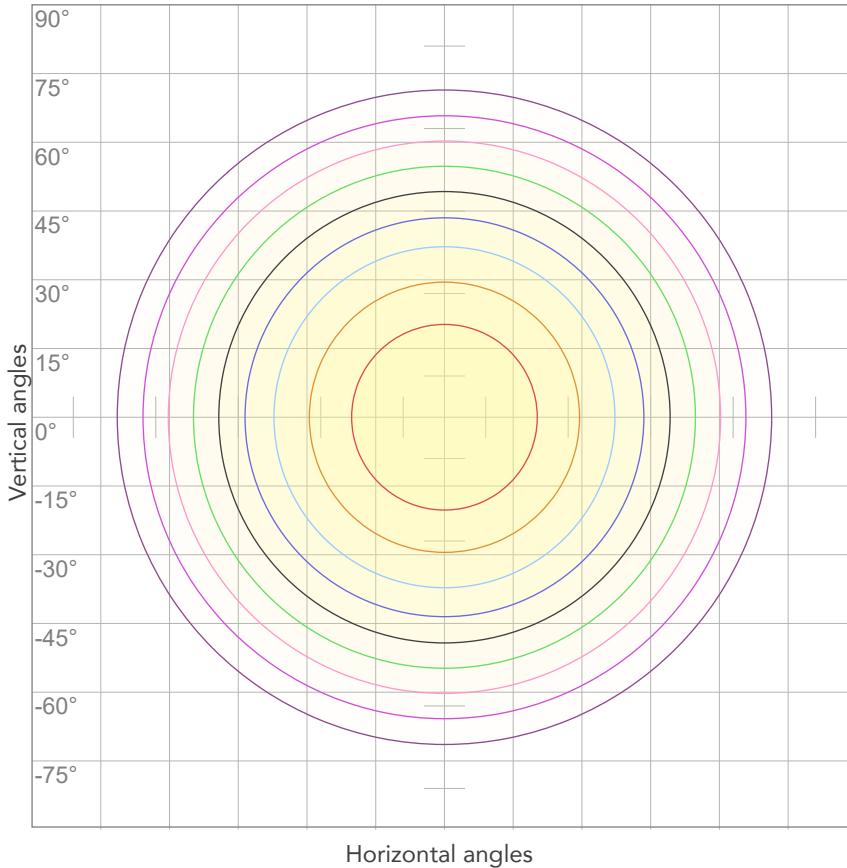
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,88A	1477W	67lm/W

## ISO CANDELA DIAGRAM



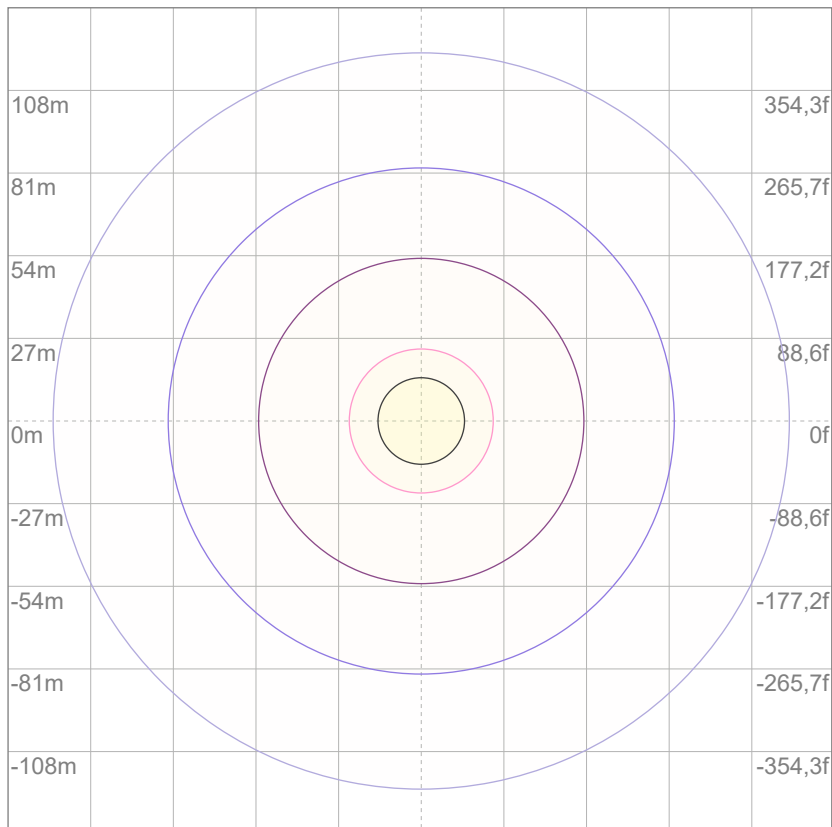
10%	4265 cd
20%	8530 cd
30%	12794 cd
40%	17059 cd
50%	21324 cd
60%	25589 cd
70%	29854 cd
80%	34119 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 42648 cd

## ISO LUX DIAGRAM



3%	12,8 lx
5%	21,3 lx
10%	42,6 lx
30%	128 lx
50%	213 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 426 lx

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



Total lumen output:

121112 lm

Peak candela output:

45339 cd

Light quality:

CRI: 95,3

Color temperature:

6009 K

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter LD

Target:

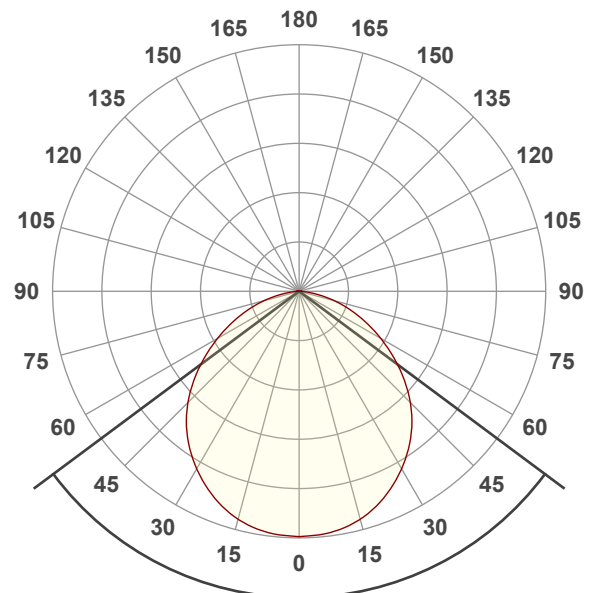
6000K

Operator:

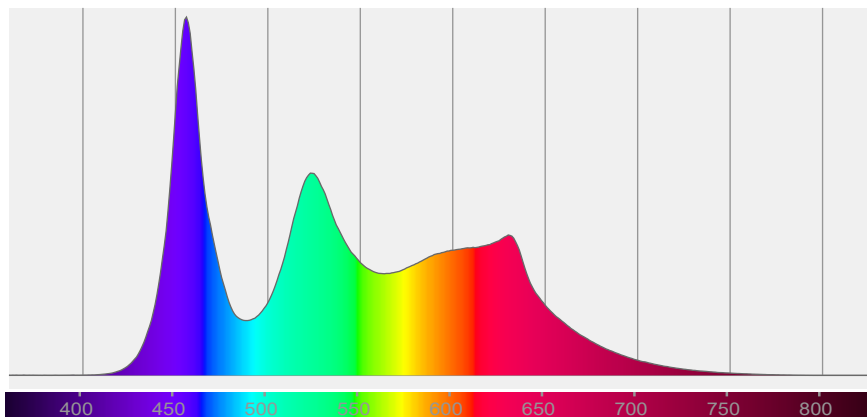
Paolo Carvone

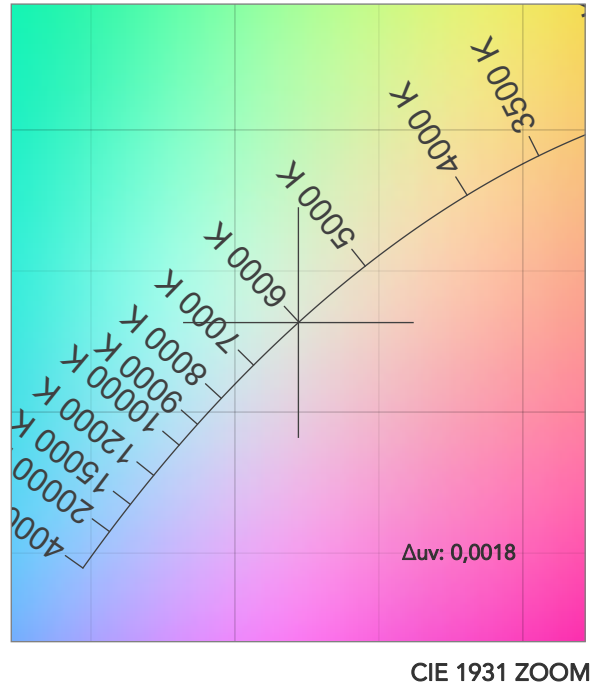
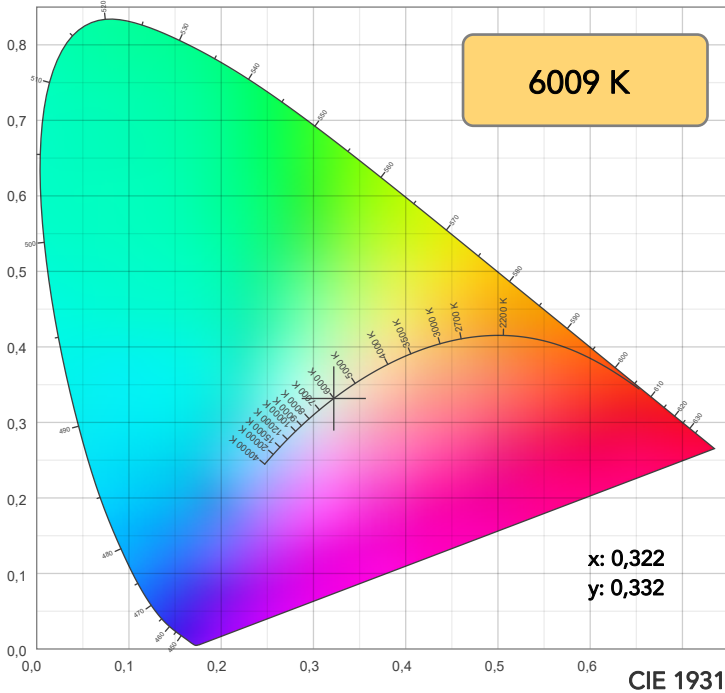
Date and time:

09/06/2022 11:52:38

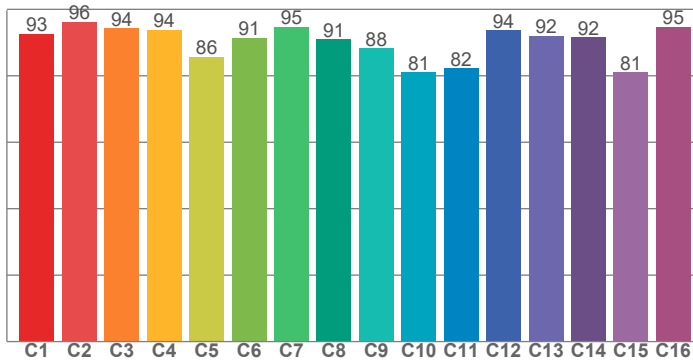


Spectra

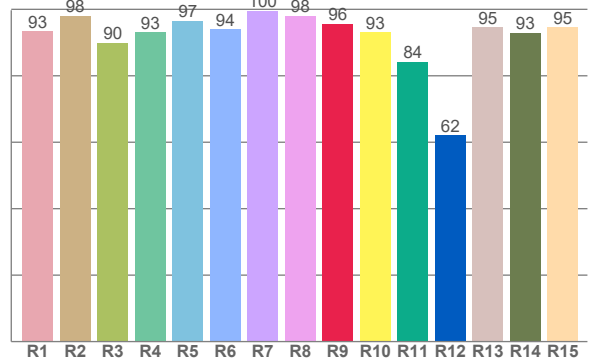




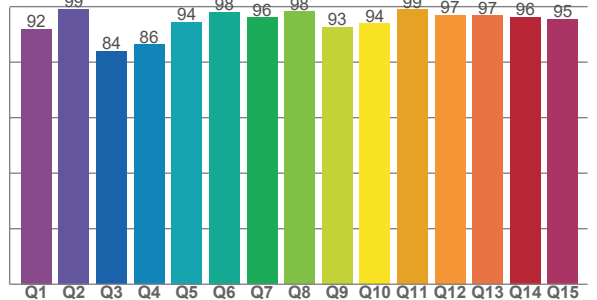
TM30: 89,8



CRI: 95,3 (R1-R8)



CQS: 93,1



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,4	98,0	90,0	93,1	96,5	94,0	99,6	98,0	95,7	93,1	84,2	62,1	94,6	93,0	94,6

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,6	96,1	94,2	93,8	85,7	91,3	94,8	90,9	88,3	81,0	82,2	93,7	92,1	91,5	81,0	94,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,9	99,2	83,9	86,3	94,5	98,1	96,0	98,2	92,7	93,9	99,0	97,0	96,7	96,2	95,4

COLOR PARAMETERS

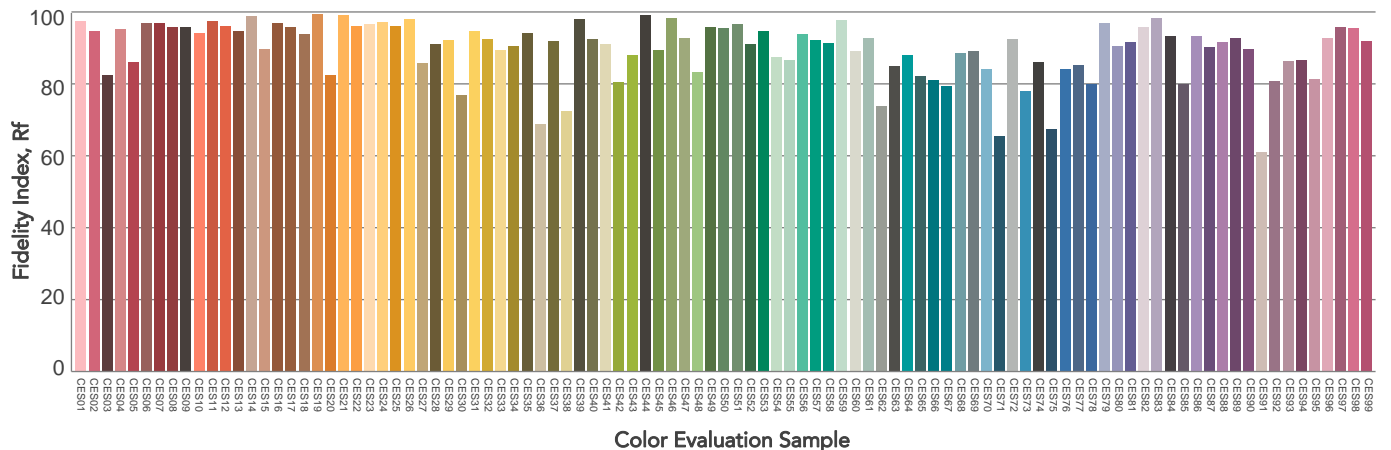
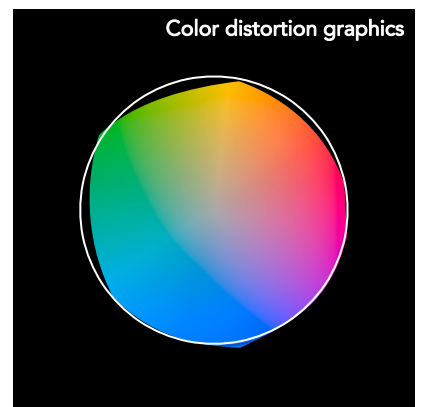
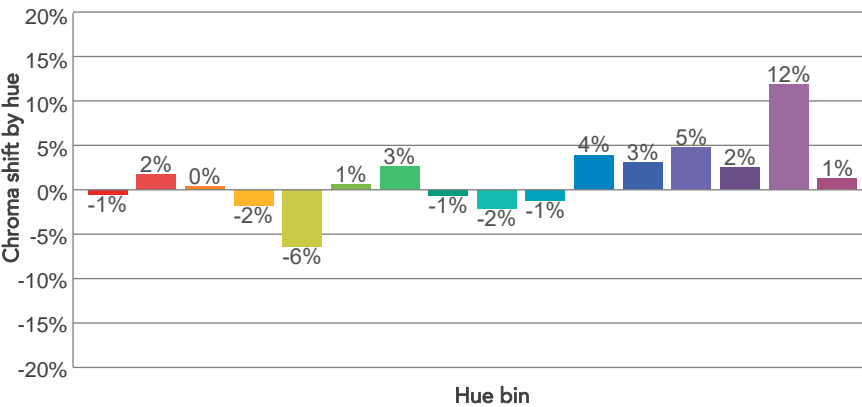
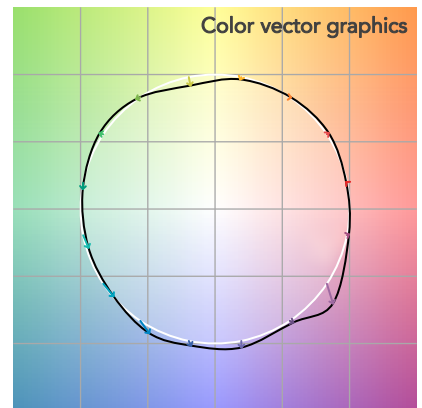
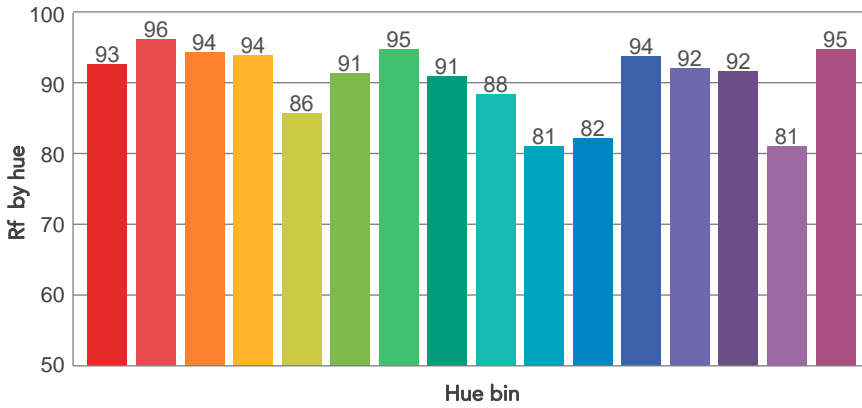
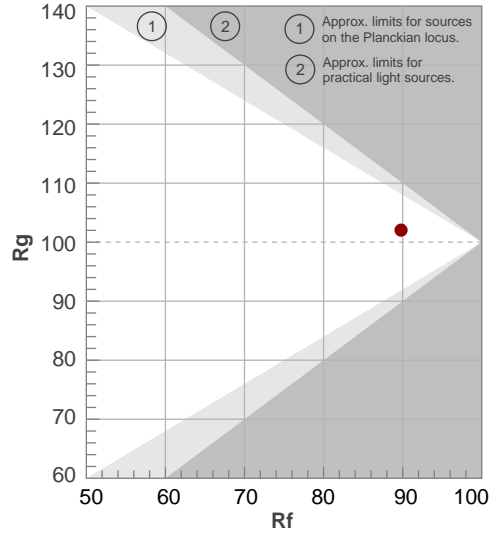
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6009 K	95,3	95,7	89,8	102,0	93,1	93	0,322	0,332	0,0018

# TM30 DETAILS

**Rf 89,8**  
Fidelity index Rf

**Rg 102,0**  
Gammut index

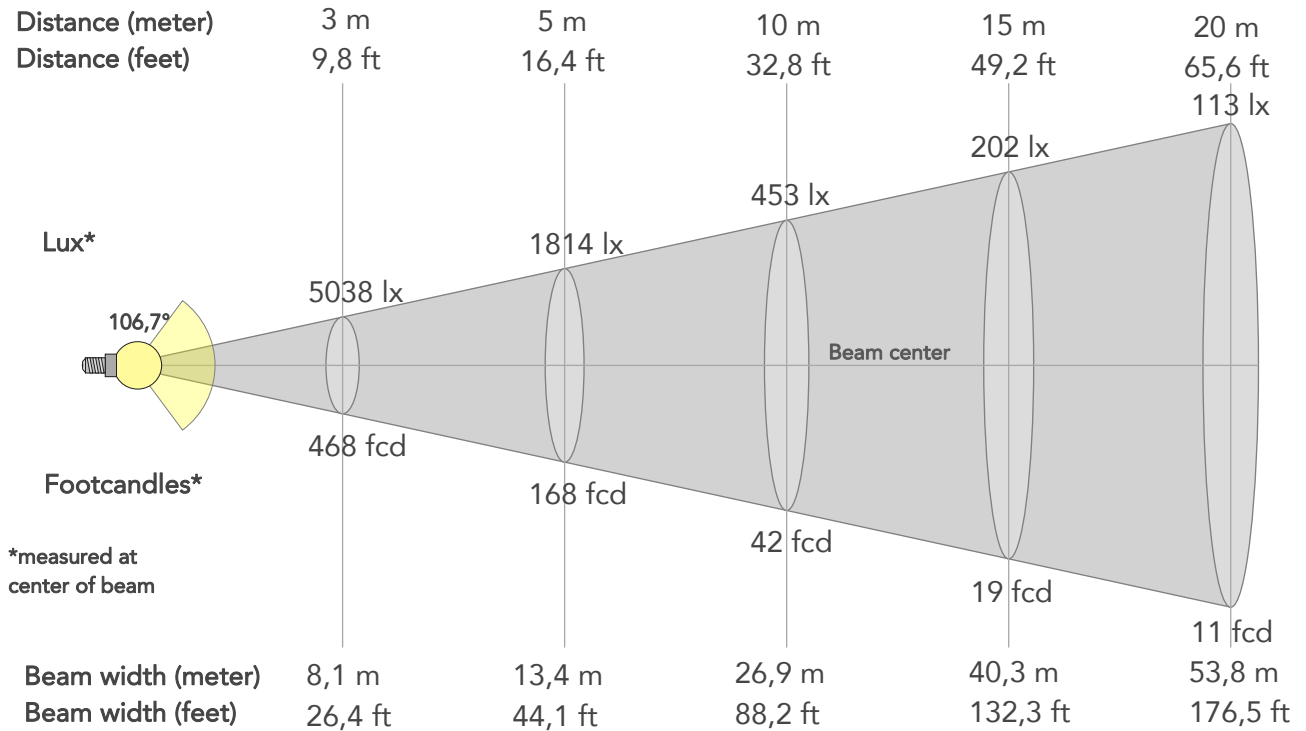
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	-1%	1%
2	96	2%	0%
3	94	0%	-1%
4	94	-2%	0%
5	86	-6%	0%
6	91	1%	3%
7	95	3%	1%
8	91	-1%	5%
9	88	-2%	10%
10	81	-1%	12%
11	82	4%	11%
12	94	3%	2%
13	92	5%	-1%
14	92	2%	2%
15	81	12%	-10%
16	95	1%	1%



# BEAM DETAILS



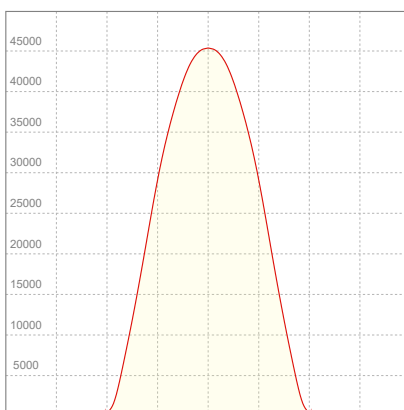
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
106,7°	156,9°	171,5°	81,5%	56,6%



## 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	45339lx	11335lx	5038lx	2834lx	1814lx	806lx	453lx	202lx	113lx	73lx	50lx	28lx	18lx
Footcand.	4212fcd	1053fcd	468fcd	263fcd	168fcd	75fcd	42fcd	19fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	2,7m	5,4m	8,1m	10,8m	13,4m	20,2m	26,9m	40,3m	53,8m	67,2m	80,7m	107,6m	134,5m
Beam wid.	8,9ft	17,8ft	26,4ft	35,2ft	44,1ft	66,2ft	88,2ft	132,3ft	176,5ft	220,6ft	264,7ft	352,9ft	441,1ft

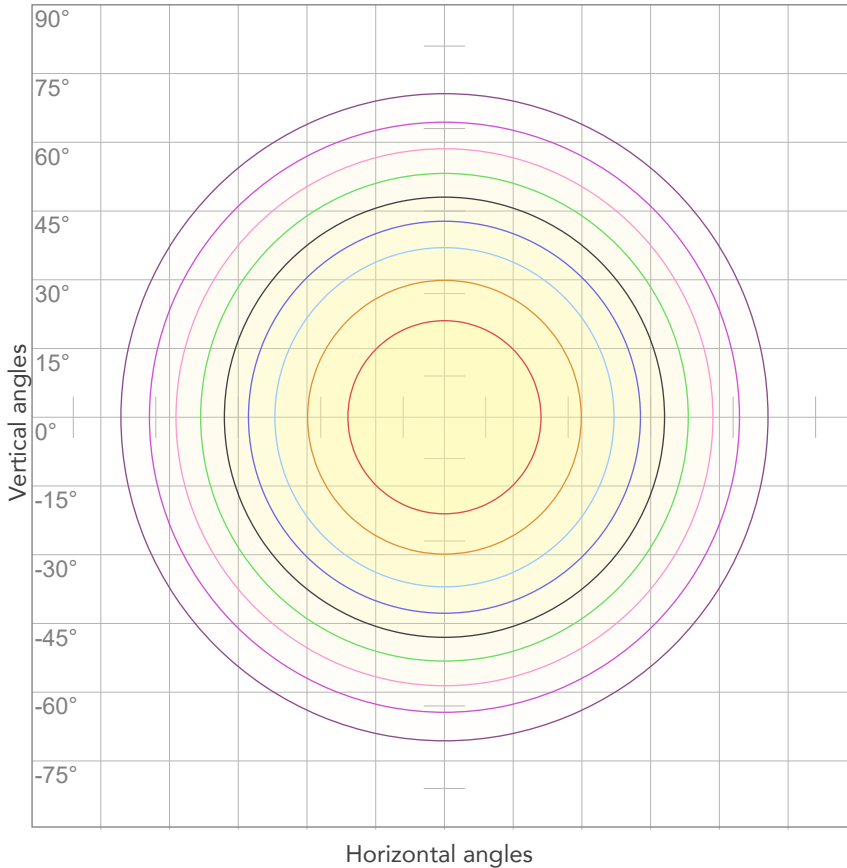
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6,88A	1477W	67lm/W

## ISO CANDELA DIAGRAM



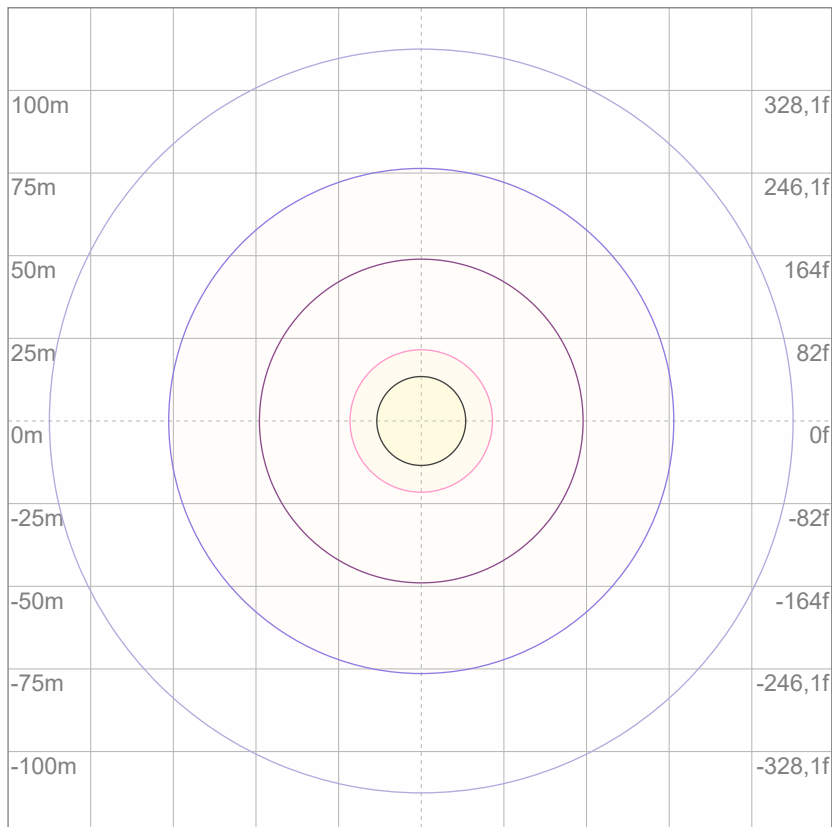
10%	4534 cd
20%	9068 cd
30%	13602 cd
40%	18136 cd
50%	22670 cd
60%	27204 cd
70%	31738 cd
80%	36272 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 45339 cd

## ISO LUX DIAGRAM



3%	13,6 lx
5%	22,7 lx
10%	45,3 lx
30%	136 lx
50%	227 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 453 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

93584 lm

Peak candela output:

56565 cd

Light quality:

CRI: 95,4

Color temperature:

6016 K

PRODUCT NAME:

ECLPANELTWCXL

MEASUREMENT CONDITIONS:

Beam angle:

Filter INT

Target:

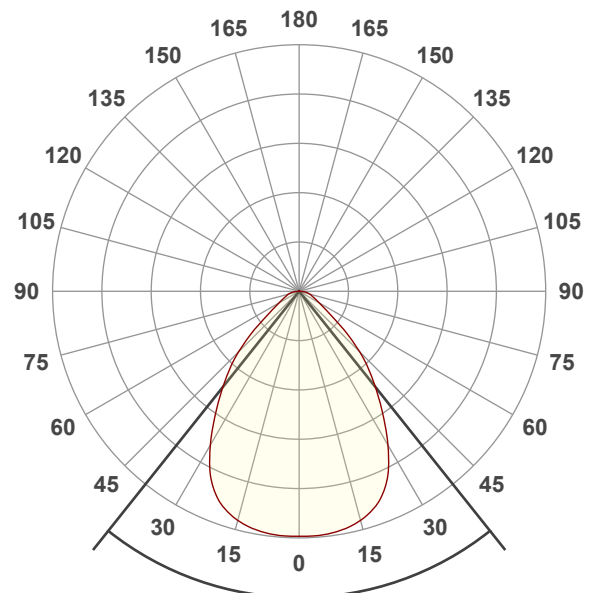
6000K

Operator:

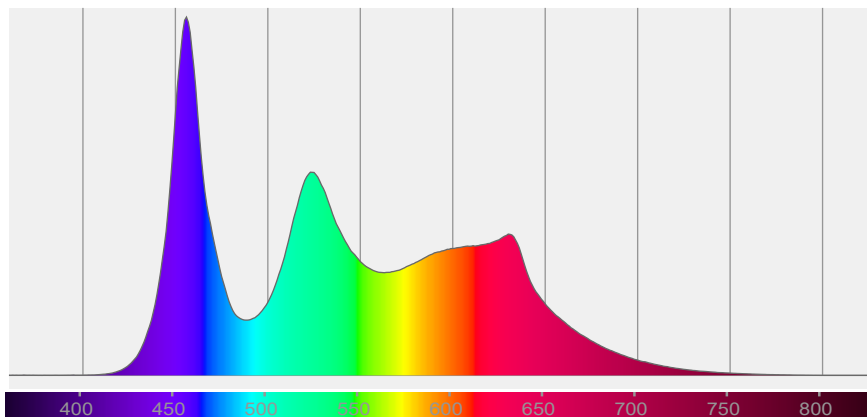
Paolo Carvone

Date and time:

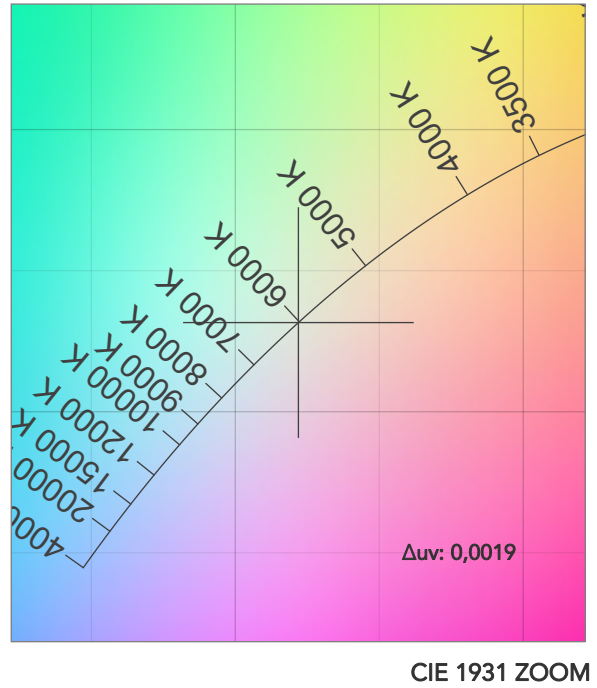
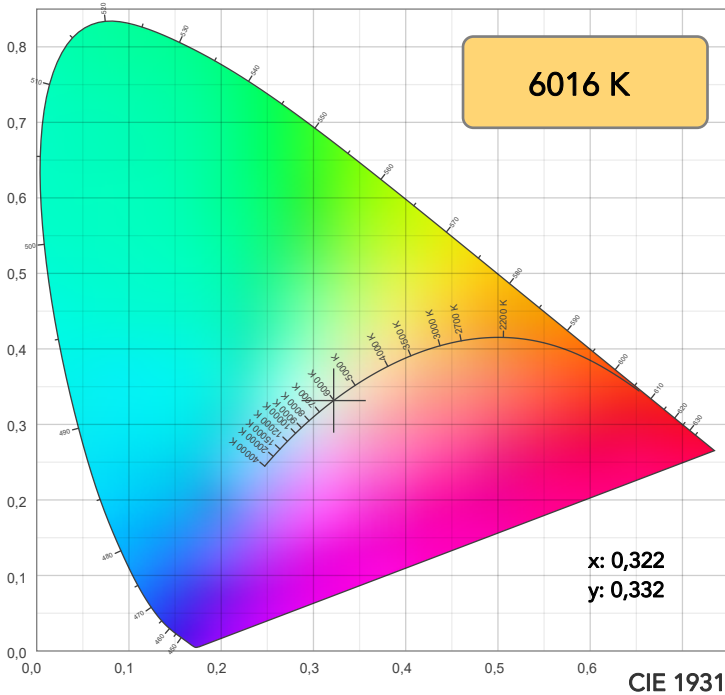
24/06/2022 09:20:25



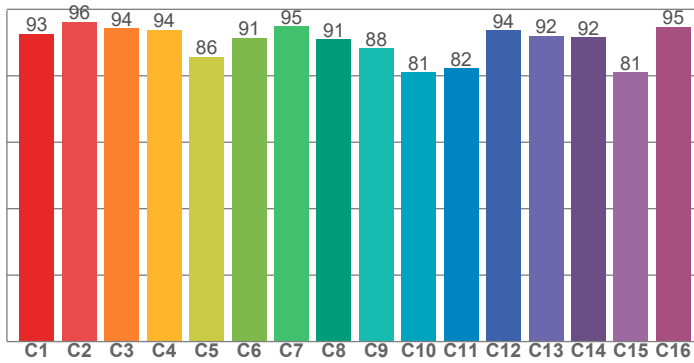
Spectra



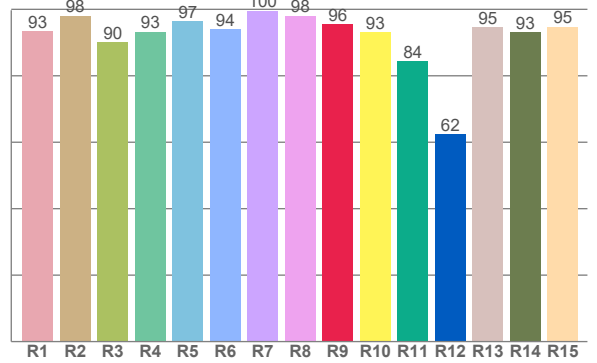




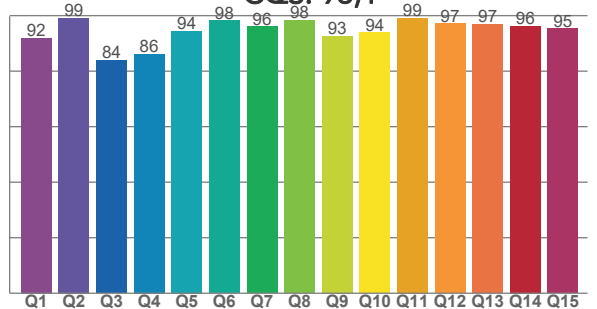
TM30: 89,8



CRI: 95,4 (R1-R8)



CQS: 93,1



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,4	98,1	90,1	93,3	96,5	94,0	99,6	98,1	95,5	93,2	84,4	62,3	94,6	93,0	94,7

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,6	96,2	94,3	93,8	85,7	91,4	94,8	90,9	88,3	81,0	82,2	93,7	92,1	91,6	81,1	94,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,9	99,2	83,9	86,3	94,4	98,2	96,0	98,3	92,7	93,9	99,1	97,1	96,9	96,2	95,4

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6016 K	95,4	95,5	89,8	102,0	93,1	93	0,322	0,332	0,0019

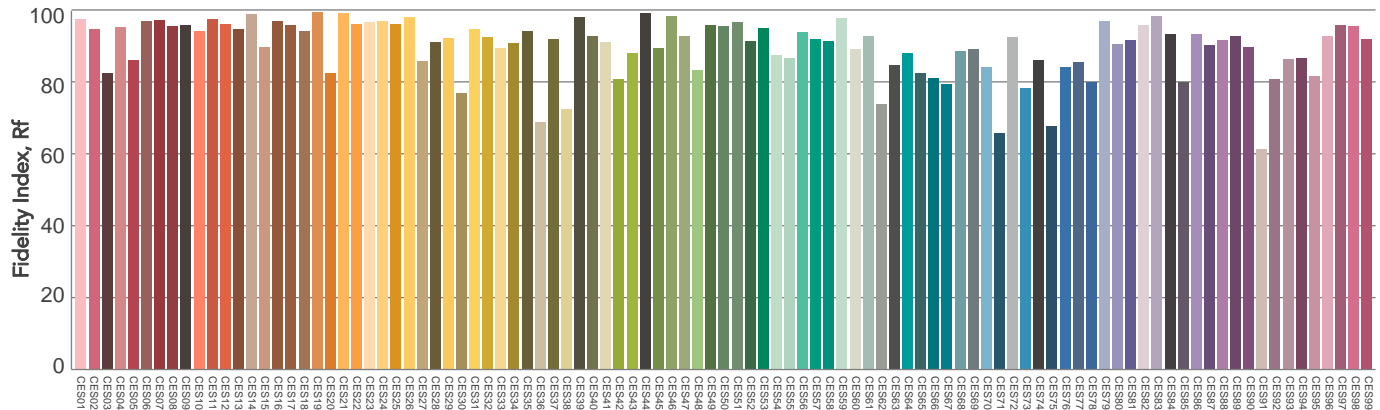
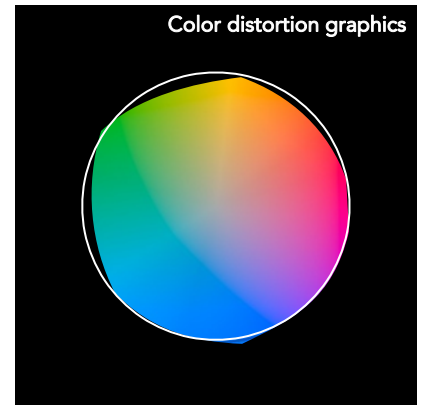
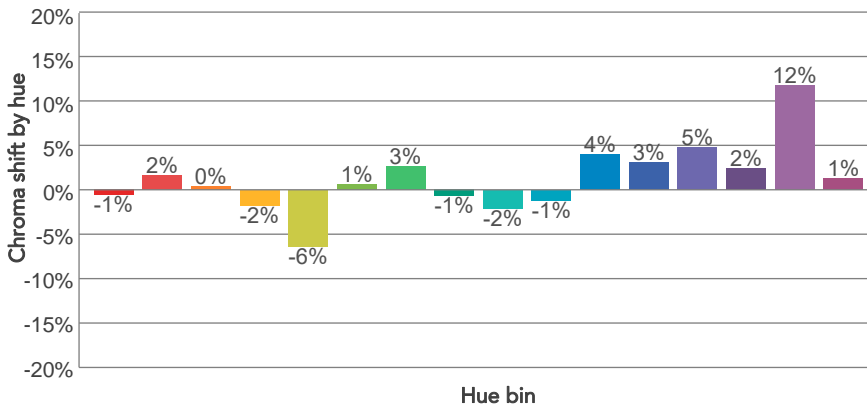
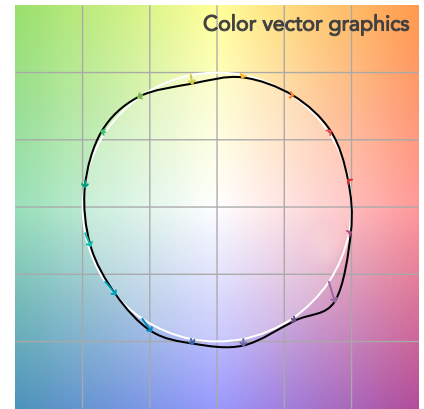
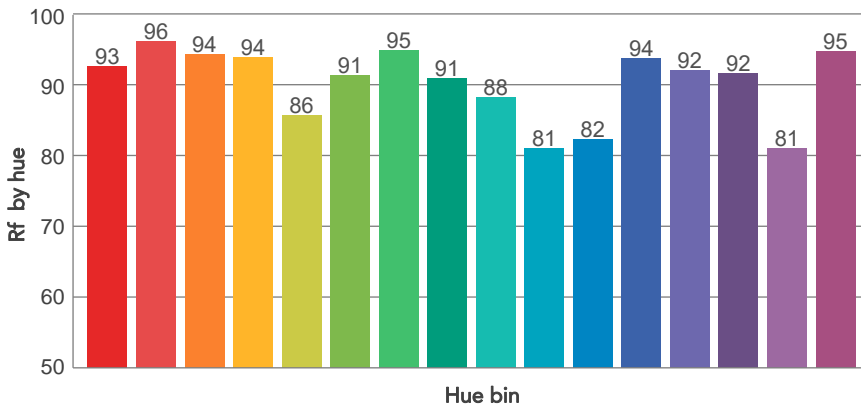
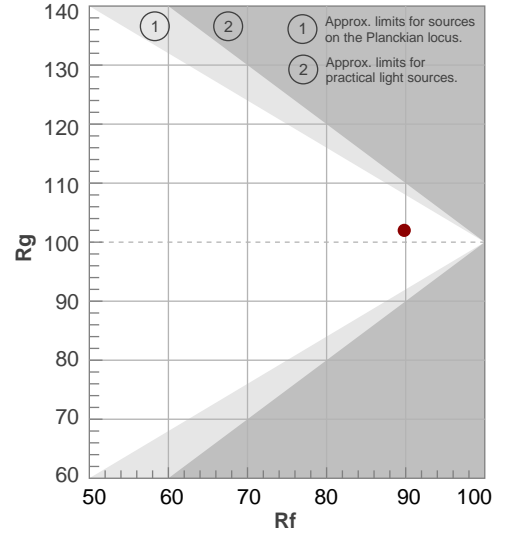
# TM30 DETAILS



**Rf 89,8**  
Fidelity index Rf

**Rg 102,0**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	-1%	1%
2	96	2%	0%
3	94	0%	-1%
4	94	-2%	0%
5	86	-6%	0%
6	91	1%	3%
7	95	3%	1%
8	91	-1%	5%
9	88	-2%	10%
10	81	-1%	12%
11	82	4%	11%
12	94	3%	2%
13	92	5%	-1%
14	92	2%	2%
15	81	12%	-10%
16	95	1%	1%

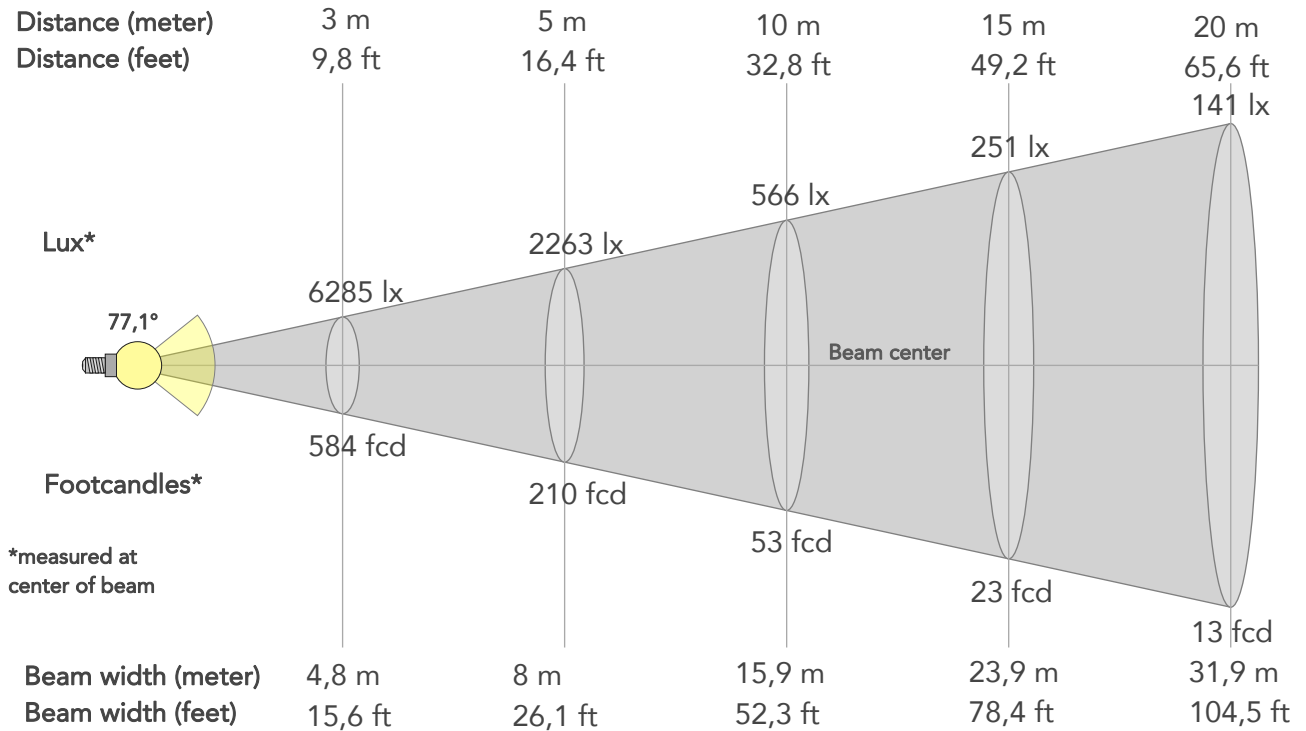


Color Evaluation Sample

# BEAM DETAILS



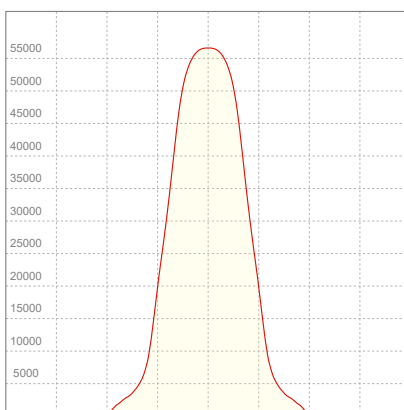
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
77,1°	118,8°	166,4°	91,7%	76,8%



## 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	5656lx	14141lx	6285lx	3535lx	2263lx	1006lx	566lx	251lx	141lx	91lx	63lx	35lx	23lx
Footcand.	5255fcd	1314fcd	584fcd	328fcd	210fcd	93fcd	53fcd	23fcd	13fcd	8fcd	6fcd	3fcd	2fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	8m	12m	15,9m	23,9m	31,9m	39,8m	47,8m	63,7m	79,7m
Beam wid.	5,3ft	10,5ft	15,6ft	20,9ft	26,1ft	39,2ft	52,3ft	78,4ft	104,5ft	130,7ft	156,8ft	209,1ft	261,3ft

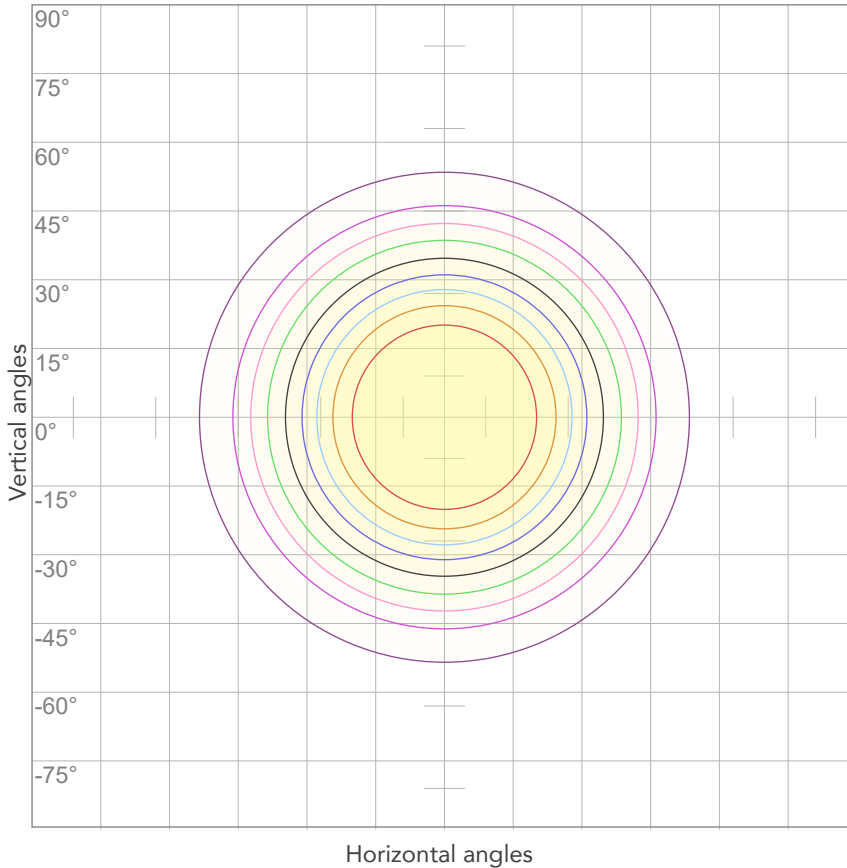
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	6.98A	1477	67lm/W

## ISO CANDELA DIAGRAM



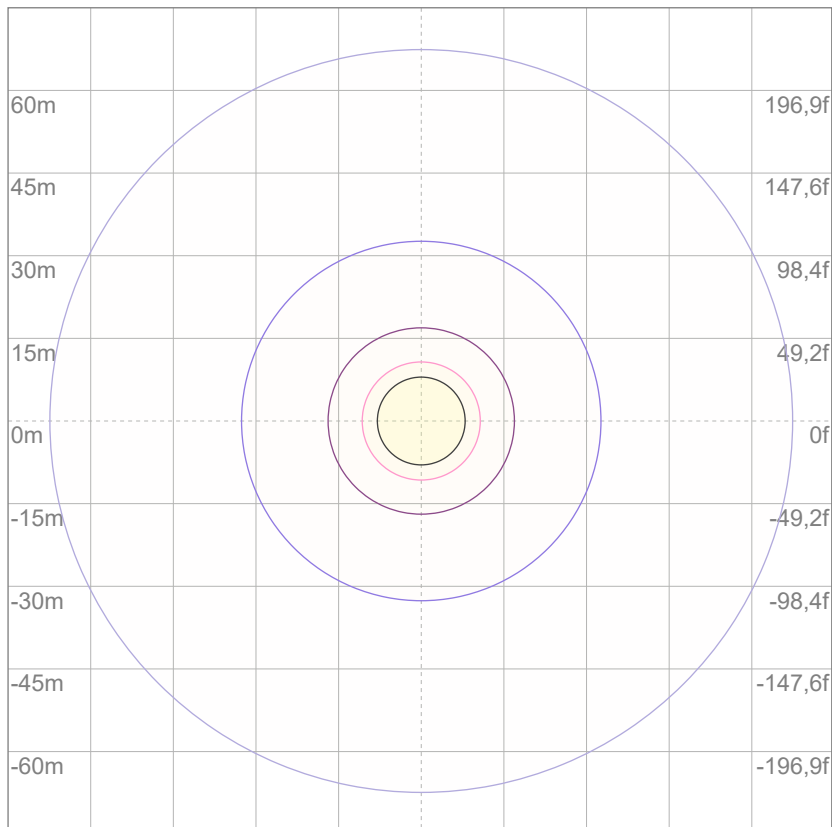
10%	5656 cd
20%	11313 cd
30%	16969 cd
40%	22626 cd
50%	28282 cd
60%	33939 cd
70%	39595 cd
80%	45252 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 56565 cd

## ISO LUX DIAGRAM



3%	17,0 lx
5%	28,3 lx
10%	56,6 lx
30%	170 lx
50%	283 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 566 lx

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

Mounting height: 10 meters (33 feet)