

Photometric Test Report



ECLPANELTWCMMini2x1

115W Tunable White and colourful LED
2x1 soft light with pixels and lighting effects

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Filter MD	130
Filter LD	135
Filter INT	140

Color temperature 6000K

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Filter MD	150
Filter LD	155
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:

5677 lm

Peak candela output:

2060 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

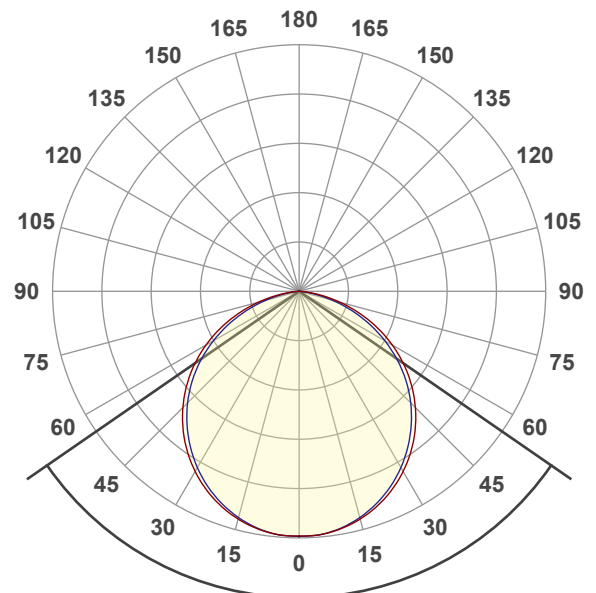
MEASURAMENT CONDITIONS:

Beam angle:
Filter HD

Target:
Full On HQ

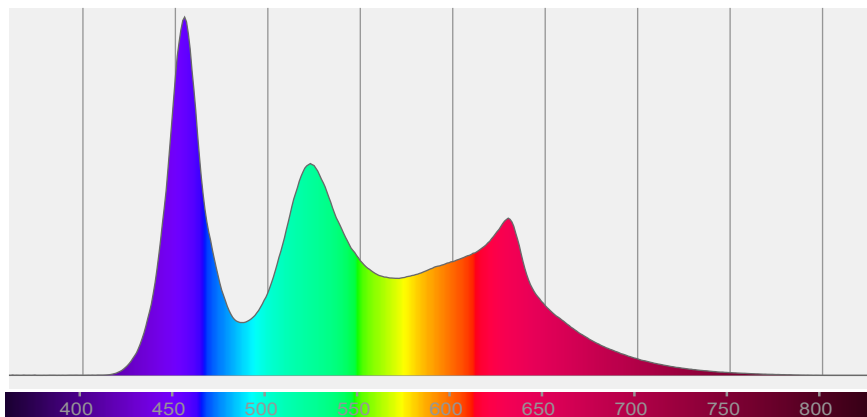
Operator:
Paolo Carvone

Date and time:
10/01/2022 15:51:06



Beam angle 50%: 110,7°
Field angle 10%: 156,7°
Cut off angle 2.5%: 167,6°

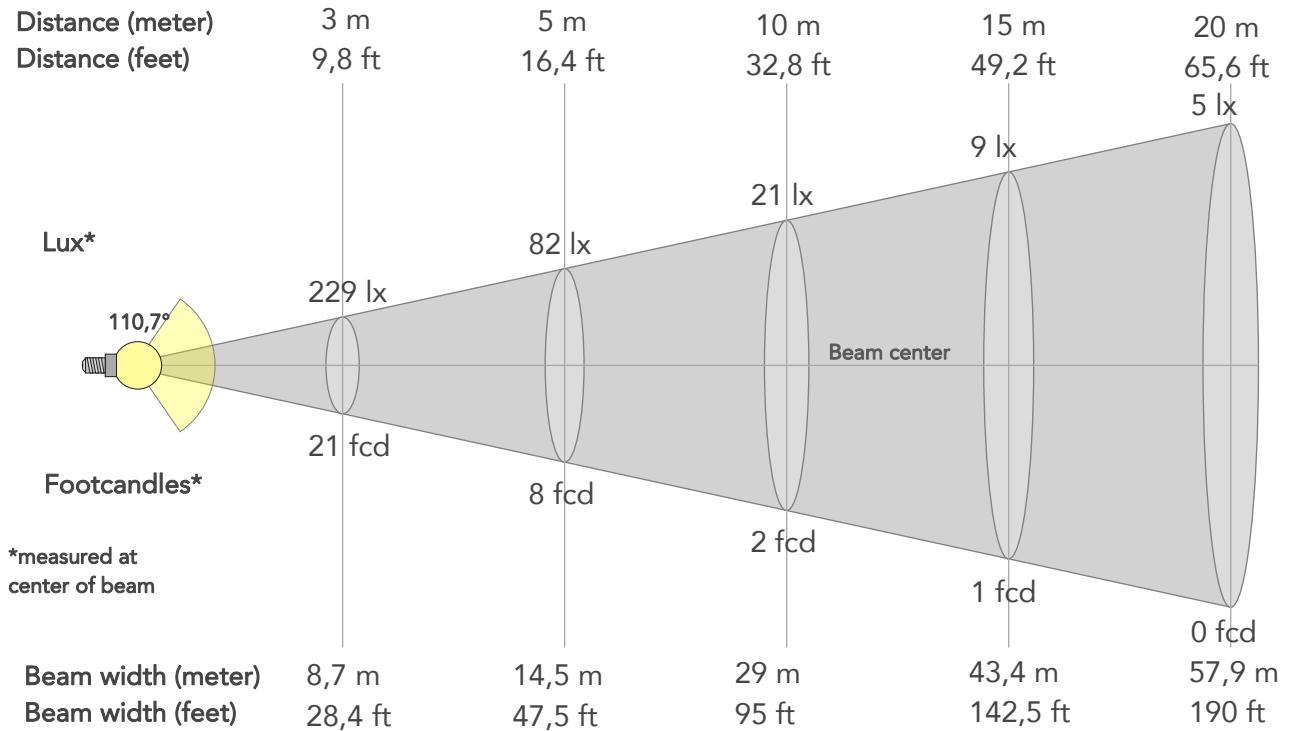
Spectra



BEAM DETAILS



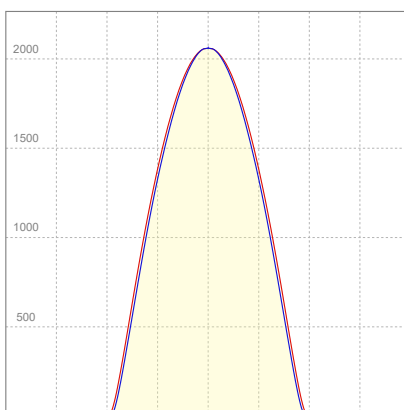
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
110,7°	156,7°	167,6°	80,6%	55,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2058lx	515lx	229lx	129lx	82lx	37lx	21lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	191fcd	48fcd	21fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,9m	5,8m	8,7m	11,6m	14,5m	21,7m	29m	43,4m	57,9m	72,4m	86,9m	115,8m	144,8m
Beam wid.	9,6ft	19,1ft	28,4ft	37,9ft	47,5ft	71,2ft	95ft	142,5ft	190ft	237,5ft	285ft	379,9ft	474,9ft

LINEAR DISTRIBUTION DIAGRAM

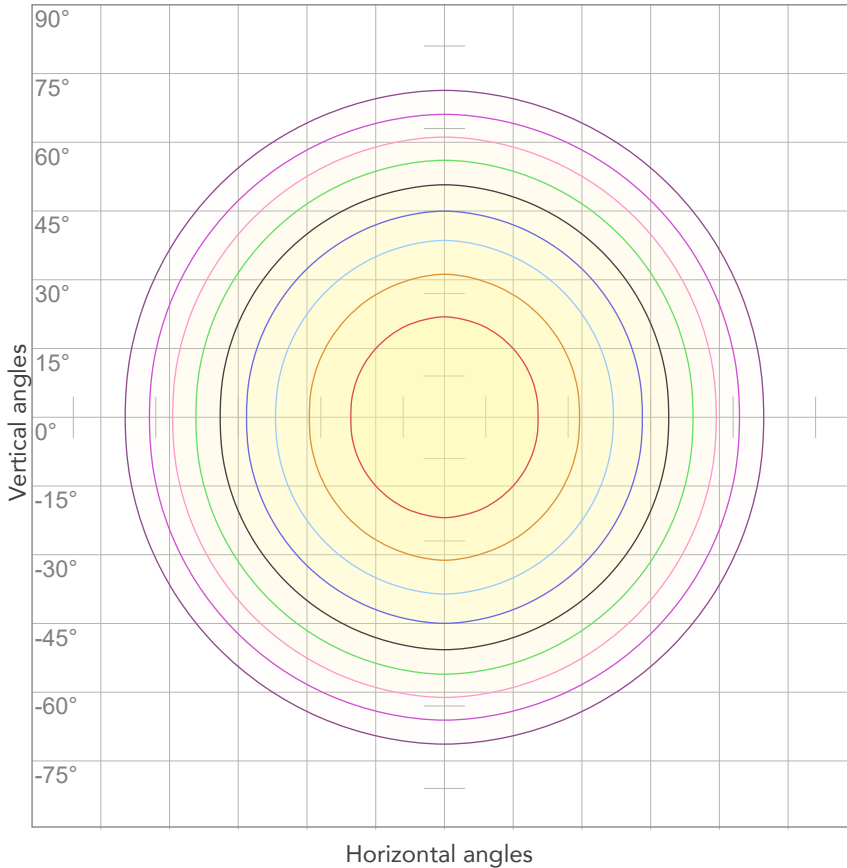


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,536A	111,9W	51lm/W

Power FC
0,93

ISO CANDELA DIAGRAM



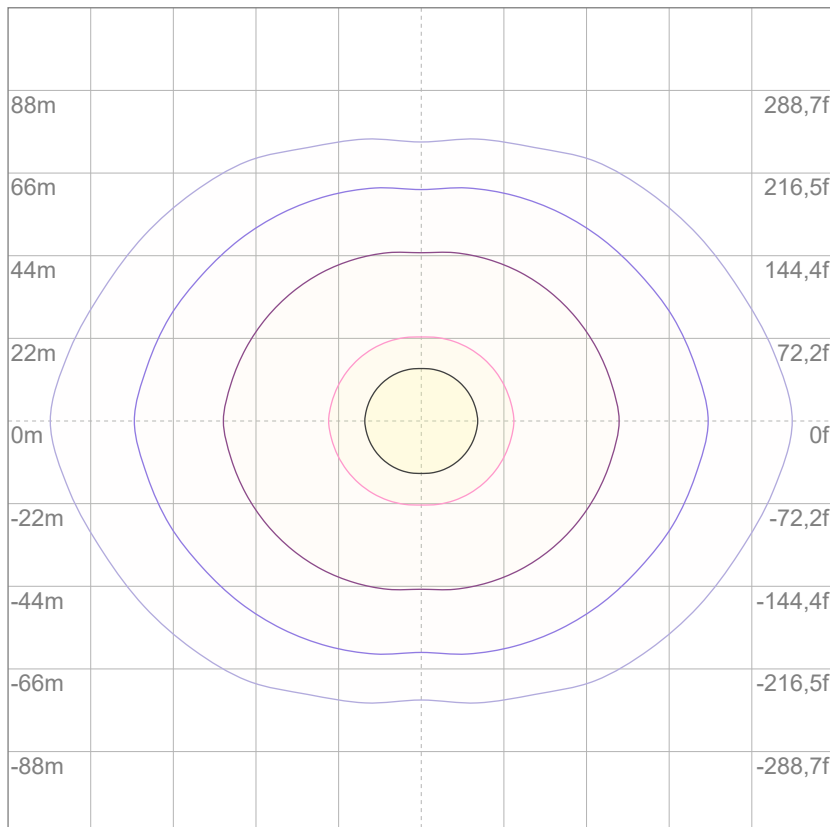
10%	206 cd
20%	412 cd
30%	617 cd
40%	823 cd
50%	1029 cd
60%	1235 cd
70%	1441 cd
80%	1647 cd

Conditions:

Number of c-planes: 4

Candela at center: 2058 cd

ISO LUX DIAGRAM



3%	0,617 lx
5%	1,03 lx
10%	2,06 lx
30%	6,17 lx
50%	10,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 20,6 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:

6790 lm

Peak candela output:

2748 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

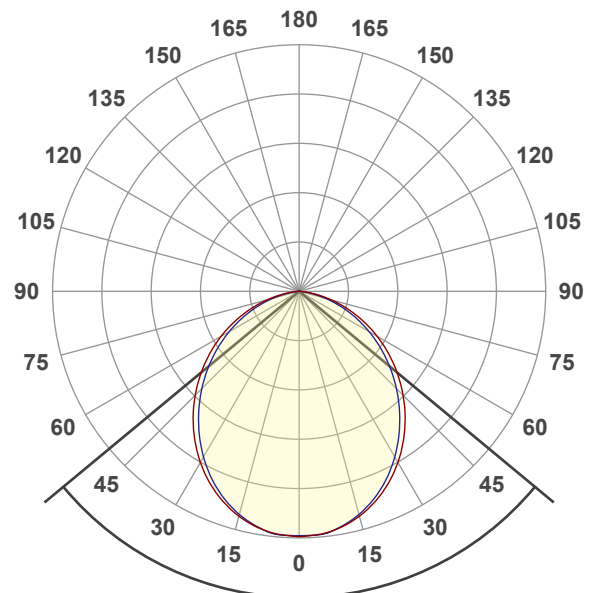
MEASUREMENT CONDITIONS:

Beam angle:
Filter MD

Target:
Full On HQ

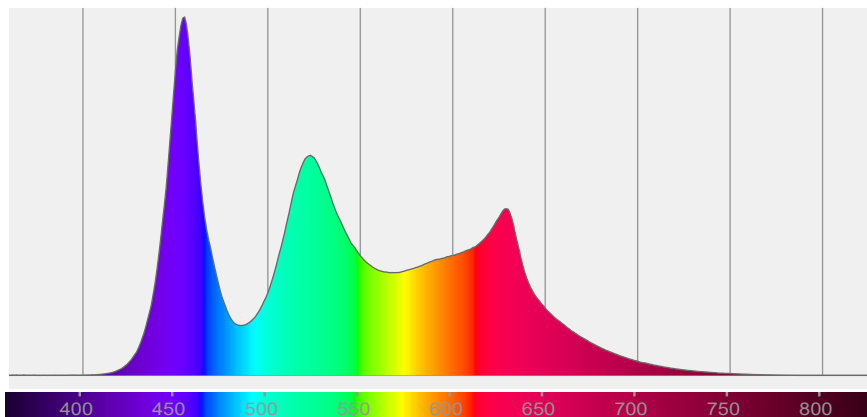
Operator:
Paolo Carvone

Date and time:
10/01/2022 13:18:55



Beam angle 50%: 100,7°
Field angle 10%: 153,5°
Cut off angle 2.5%: 166,3°

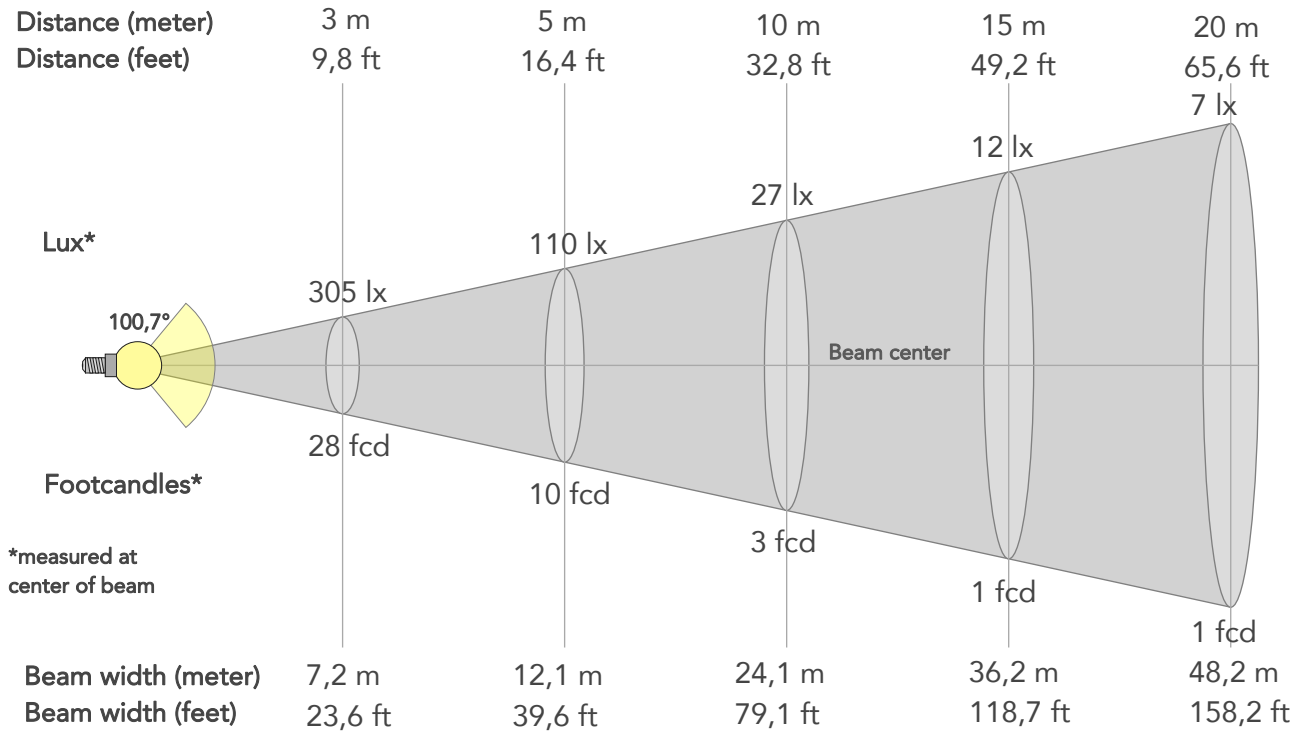
Spectra



BEAM DETAILS



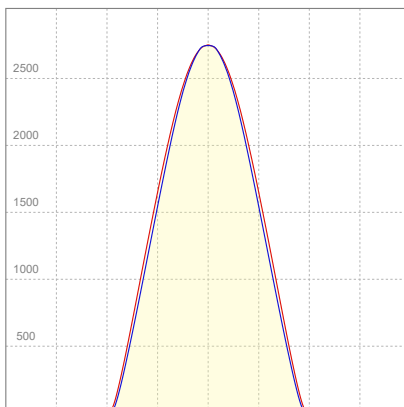
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
100,7°	153,5°	166,3°	82,4%	58,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2744lx	686lx	305lx	171lx	110lx	49lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	255fcd	64fcd	28fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,4m	4,8m	7,2m	9,6m	12,1m	18,1m	24,1m	36,2m	48,2m	60,3m	72,4m	96,5m	120,6m
Beam wid.	8ft	15,9ft	23,6ft	31,6ft	39,6ft	59,3ft	79,1ft	118,7ft	158,2ft	197,8ft	237,3ft	316,5ft	395,6ft

LINEAR DISTRIBUTION DIAGRAM

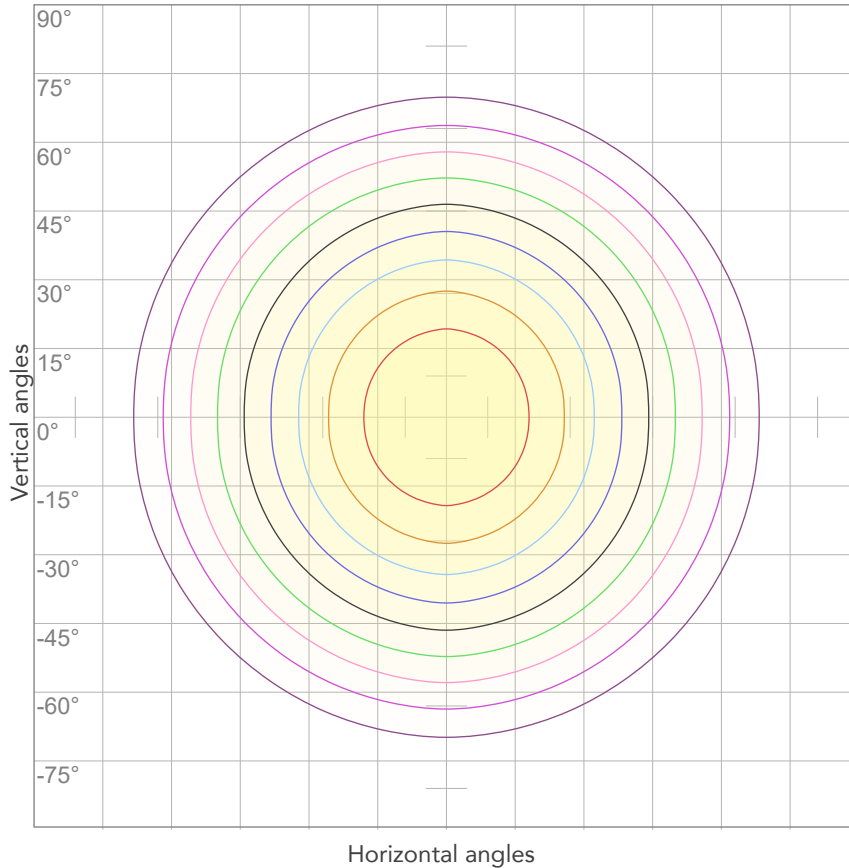


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,544A	113,7W	60lm/W

Power FC
0,93

ISO CANDELA DIAGRAM



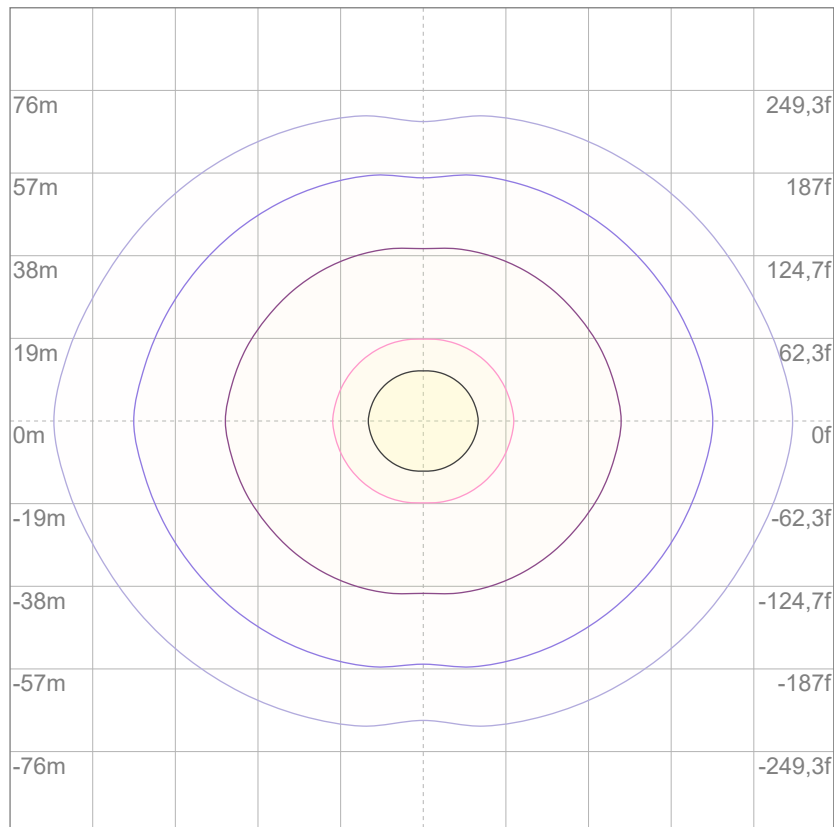
10%	274 cd
20%	549 cd
30%	823 cd
40%	1098 cd
50%	1372 cd
60%	1646 cd
70%	1921 cd
80%	2195 cd

Conditions:

Number of c-planes: 4

Candela at center: 2744 cd

ISO LUX DIAGRAM



3%	0,823 lx
5%	1,37 lx
10%	2,74 lx
30%	8,23 lx
50%	13,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 27,4 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:

6910 lm

Peak candela output:

2864 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

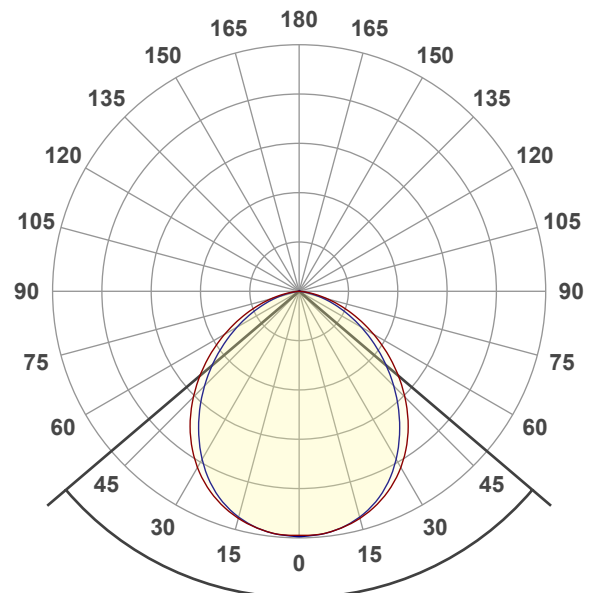
MEASURAMENT CONDITIONS:

Beam angle:
Filter LD

Target:
Full On HQ

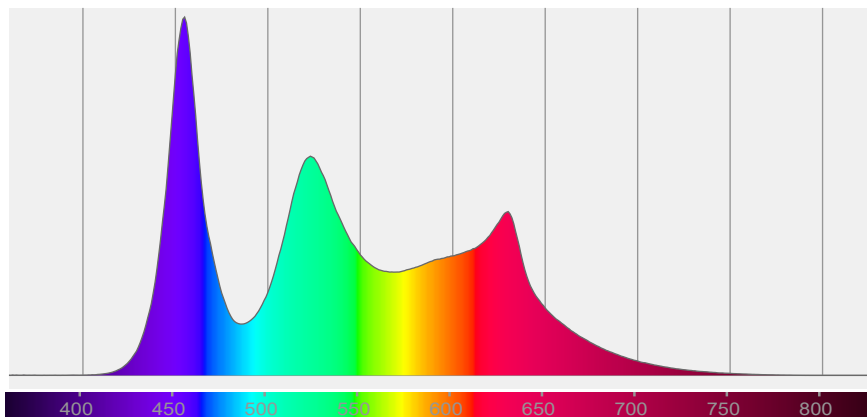
Operator:
Paolo Carvone

Date and time:
10/01/2022 14:26:06



Beam angle 50%: 99,2°
Field angle 10%: 150,5°
Cut off angle 2.5%: 164,6°

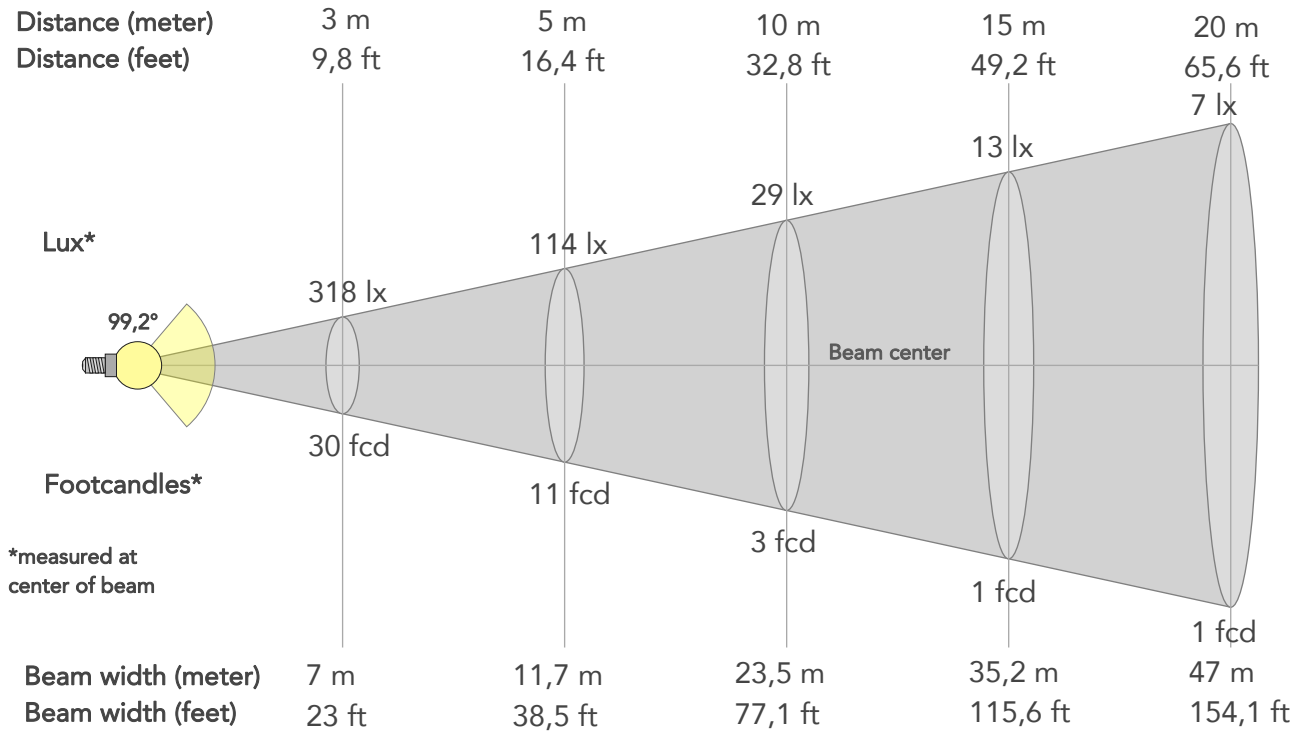
Spectra



BEAM DETAILS



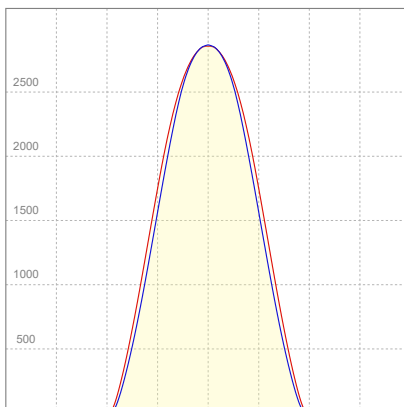
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
99,2°	150,5°	164,6°	84,3%	60,3%



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	2859lx	715lx	318lx	179lx	114lx	51lx	29lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	266fcd	66fcd	30fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,3m	4,7m	7m	9,4m	11,7m	17,6m	23,5m	35,2m	47m	58,7m	70,5m	94m	117,5m
Beam wid.	7,8ft	15,5ft	23ft	30,8ft	38,5ft	57,8ft	77,1ft	115,6ft	154,1ft	192,6ft	231,2ft	308,2ft	385,3ft

LINEAR DISTRIBUTION DIAGRAM

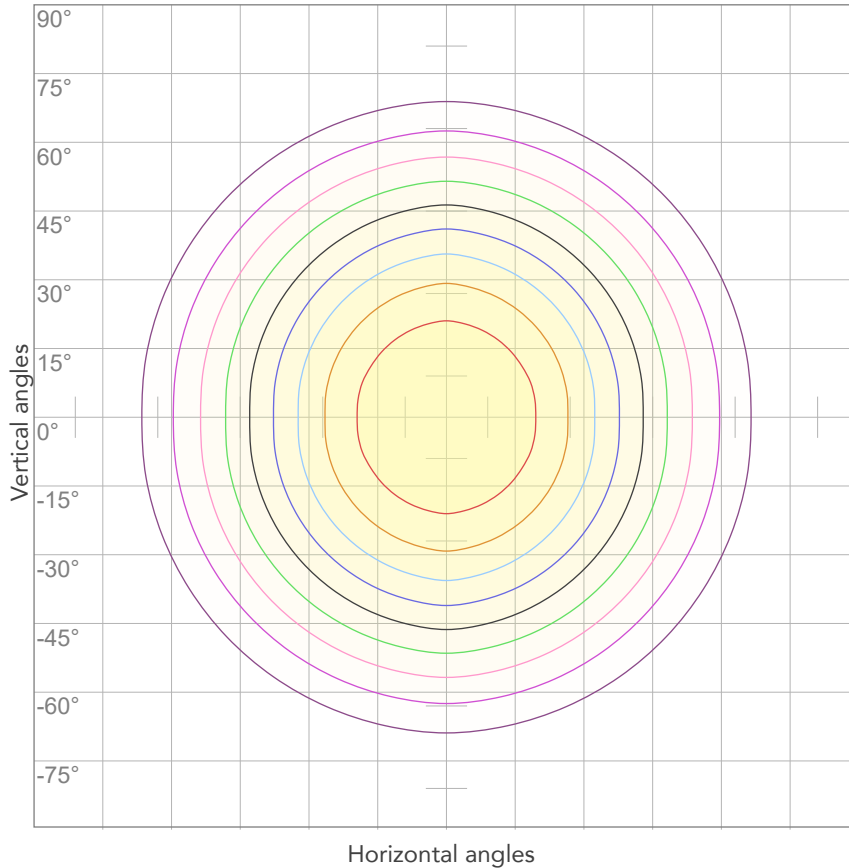


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,537A	112,3W	62lm/W

Power FC
0,93

ISO CANDELA DIAGRAM



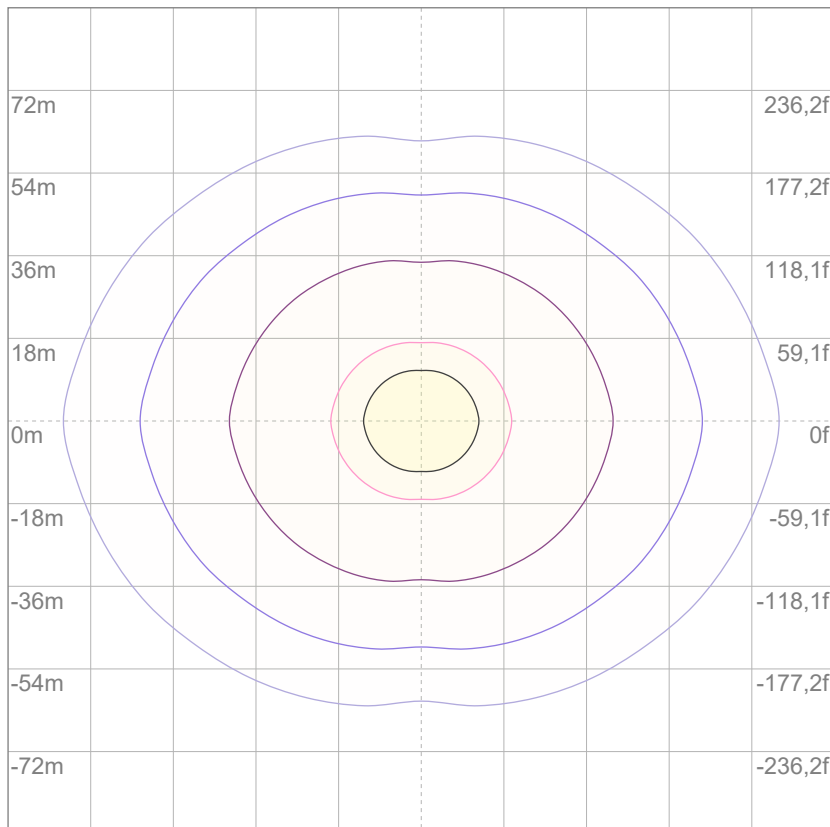
10%	286 cd
20%	572 cd
30%	858 cd
40%	1144 cd
50%	1429 cd
60%	1715 cd
70%	2001 cd
80%	2287 cd

Conditions:

Number of c-planes: 4

Candela at center: 2859 cd

ISO LUX DIAGRAM



3%	0,858 lx
5%	1,43 lx
10%	2,86 lx
30%	8,58 lx
50%	14,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 28,6 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:

5929 lm

Peak candela output:

3829 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

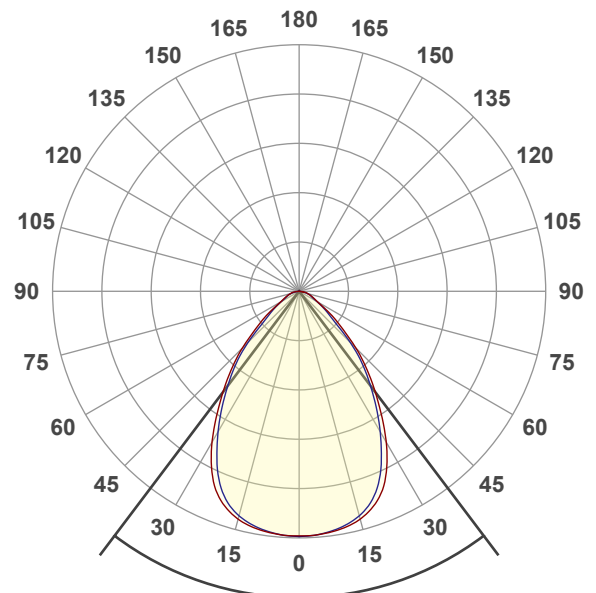
MEASURAMENT CONDITIONS:

Beam angle:
Filter MD

Target:
Full On HQ

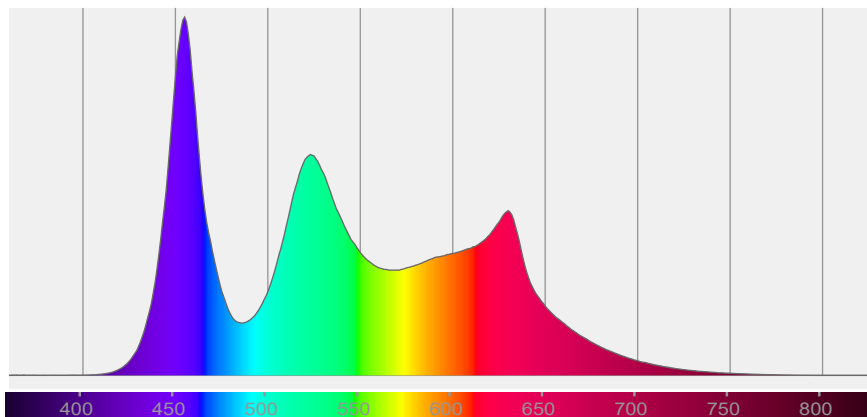
Operator:
Paolo Carvone

Date and time:
10/01/2022 14:59:36



Beam angle 50%: 74,1°
Field angle 10%: 116,5°
Cut off angle 2.5%: 158°

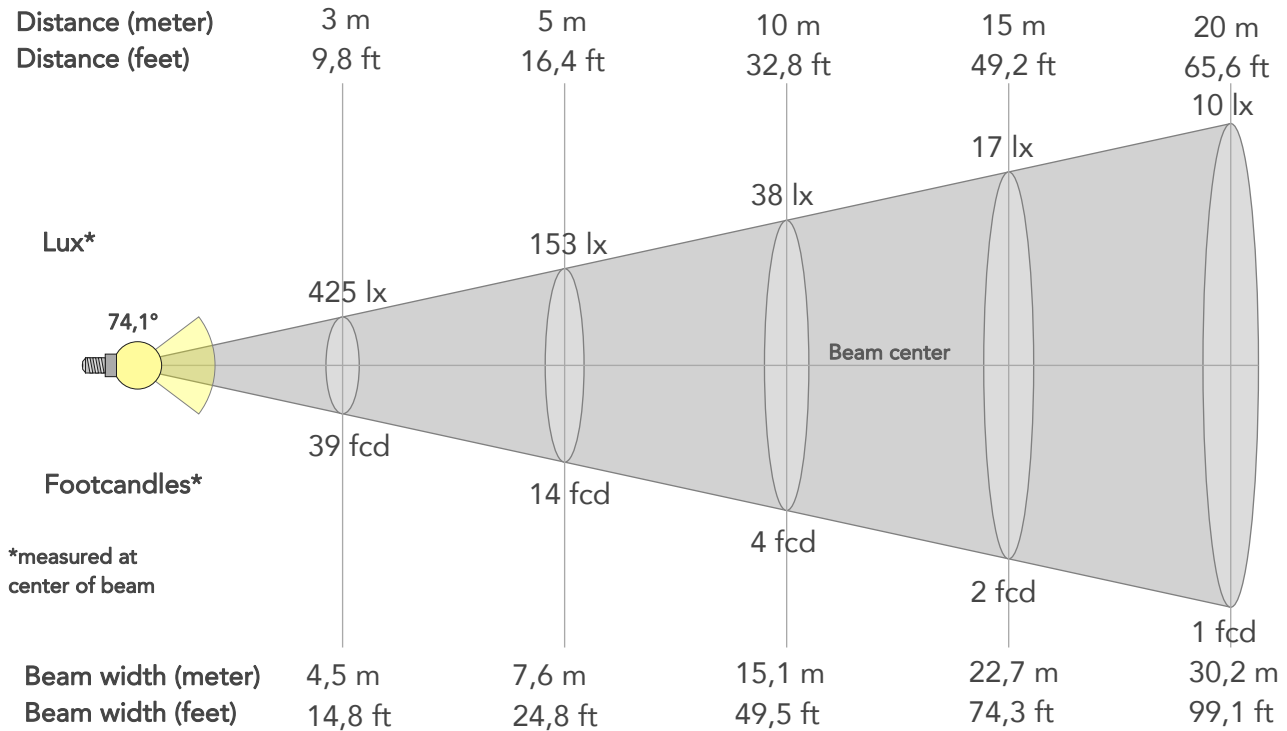
Spectra



BEAM DETAILS



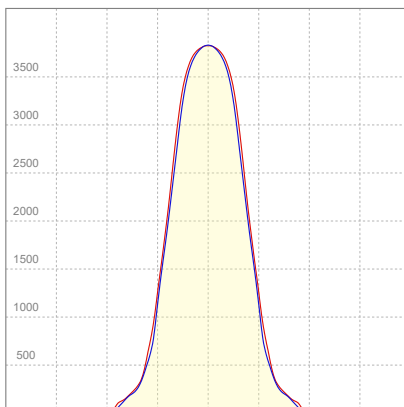
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,1°	116,5°	158°	92,9%	78,5%



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	3826lx	956lx	425lx	239lx	153lx	68lx	38lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	355fcd	89fcd	39fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,5m	6m	7,6m	11,3m	15,1m	22,7m	30,2m	37,8m	45,3m	60,4m	75,5m
Beam wid.	5ft	10ft	14,8ft	19,8ft	24,8ft	37,2ft	49,5ft	74,3ft	99,1ft	123,8ft	148,6ft	198,1ft	247,7ft

LINEAR DISTRIBUTION DIAGRAM

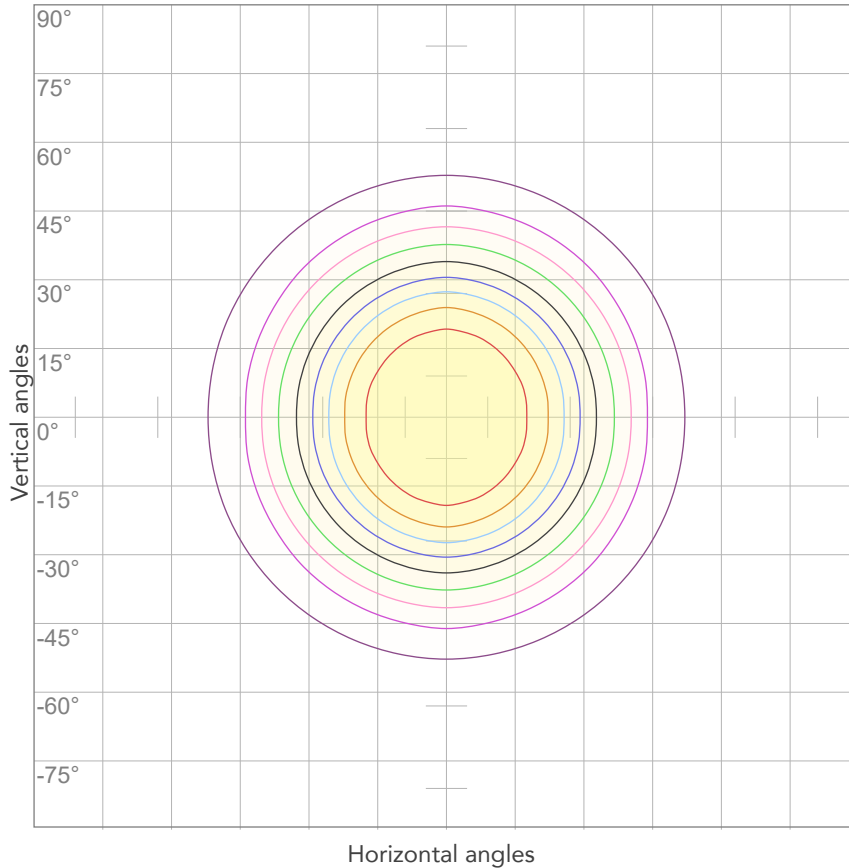


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,540A	112,1W	53lm/W

Power FC
0,93

ISO CANDELA DIAGRAM



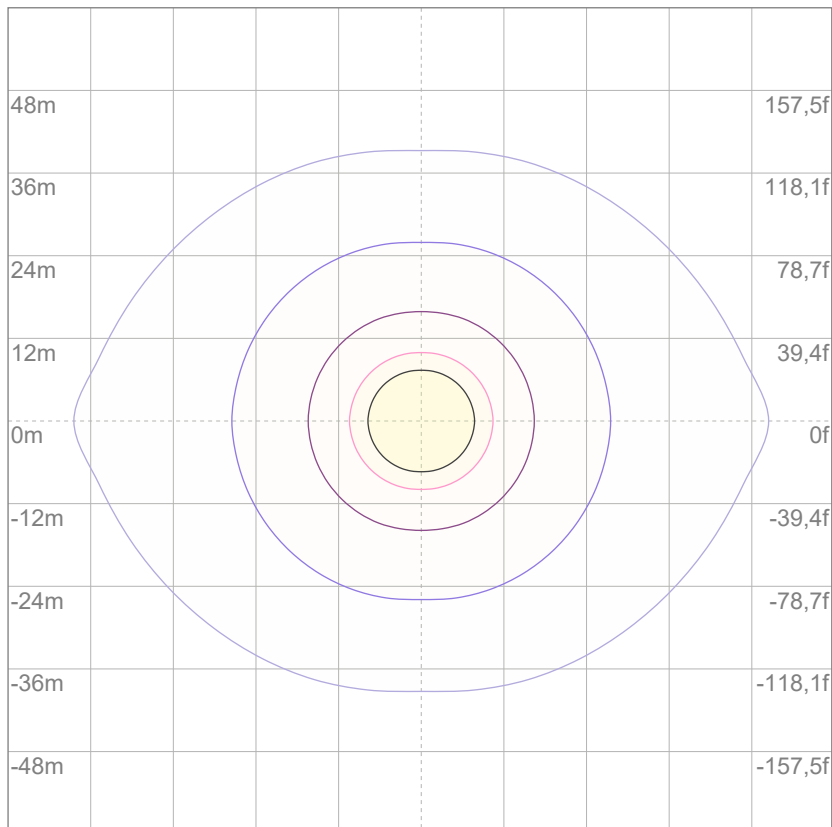
10%	383 cd
20%	765 cd
30%	1148 cd
40%	1530 cd
50%	1913 cd
60%	2296 cd
70%	2678 cd
80%	3061 cd

Conditions:

Number of c-planes: 4

Candela at center: 3826 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,15 lx
5%	1,91 lx
10%	3,83 lx
30%	11,5 lx
50%	19,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 38,3 lx

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

Total lumen output:

1172 lm

Peak candela output:

433 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

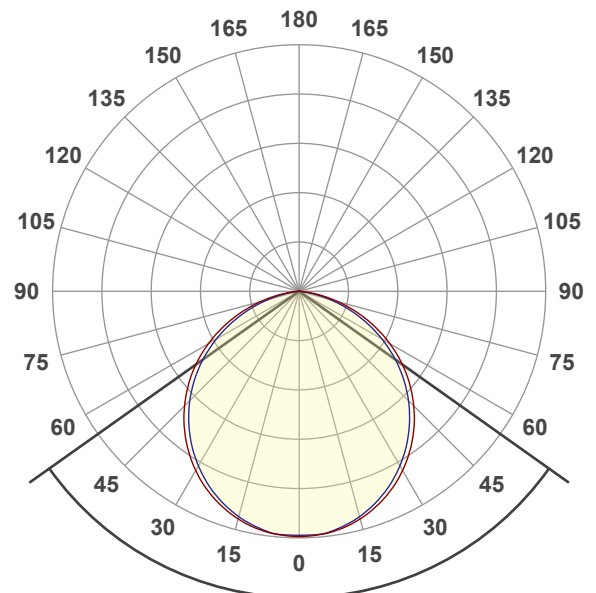
MEASUREMENT CONDITIONS:

Beam angle:
Filter HD

Target:
Red

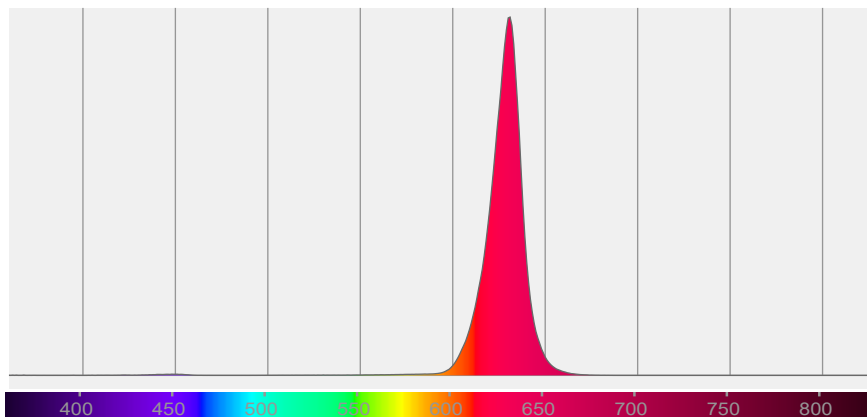
Operator:
Paolo Carvone

Date and time:
10/01/2022 15:55:30



Beam angle 50%: 109,3°
Field angle 10%: 155,9°
Cut off angle 2.5%: 167,2°

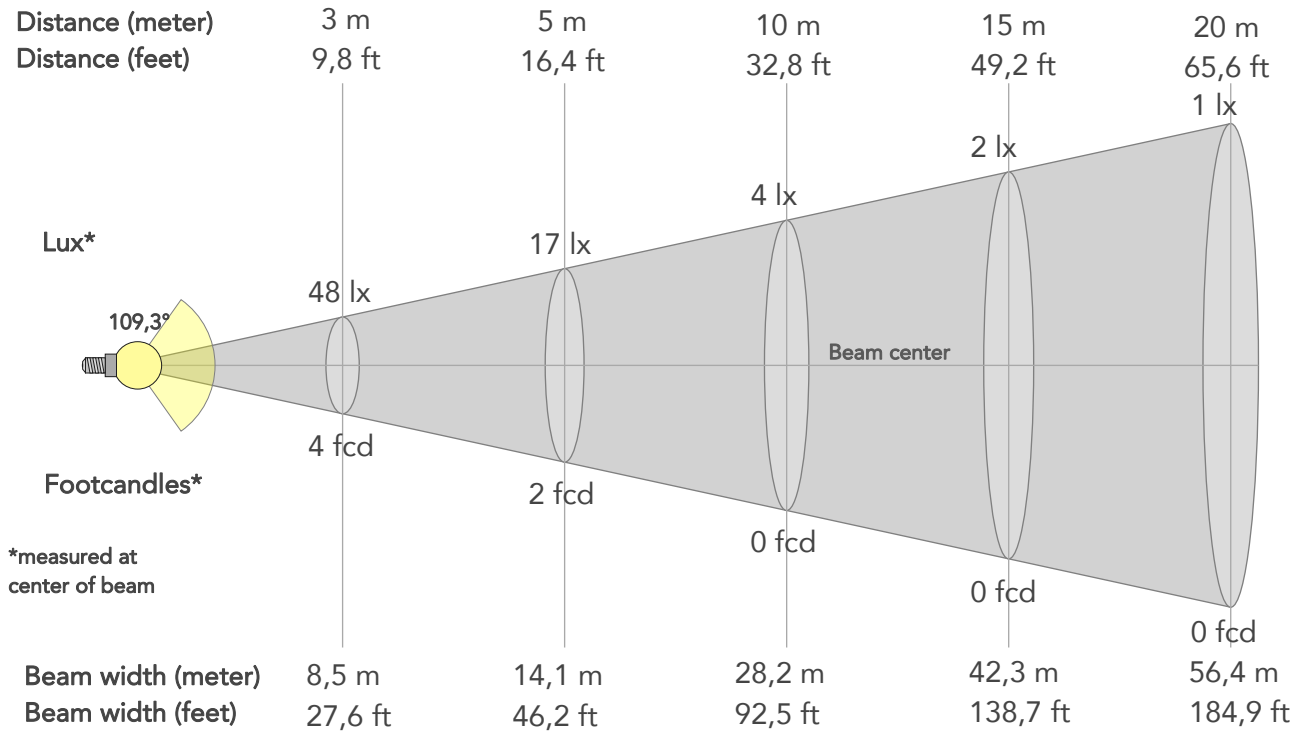
Spectra



BEAM DETAILS



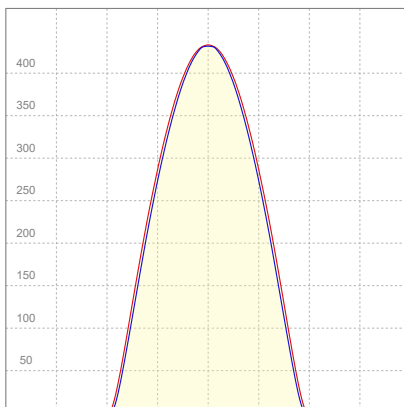
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
109,3°	155,9°	167,2°	81,1%	55,7%



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	432lx	108lx	48lx	27lx	17lx	8lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	40fcd	10fcd	4fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,8m	5,6m	8,5m	11,3m	14,1m	21,1m	28,2m	42,3m	56,4m	70,5m	84,6m	112,8m	141m
Beam wid.	9,3ft	18,6ft	27,6ft	36,9ft	46,2ft	69,4ft	92,5ft	138,7ft	184,9ft	231,2ft	277,4ft	369,9ft	462,4ft

LINEAR DISTRIBUTION DIAGRAM

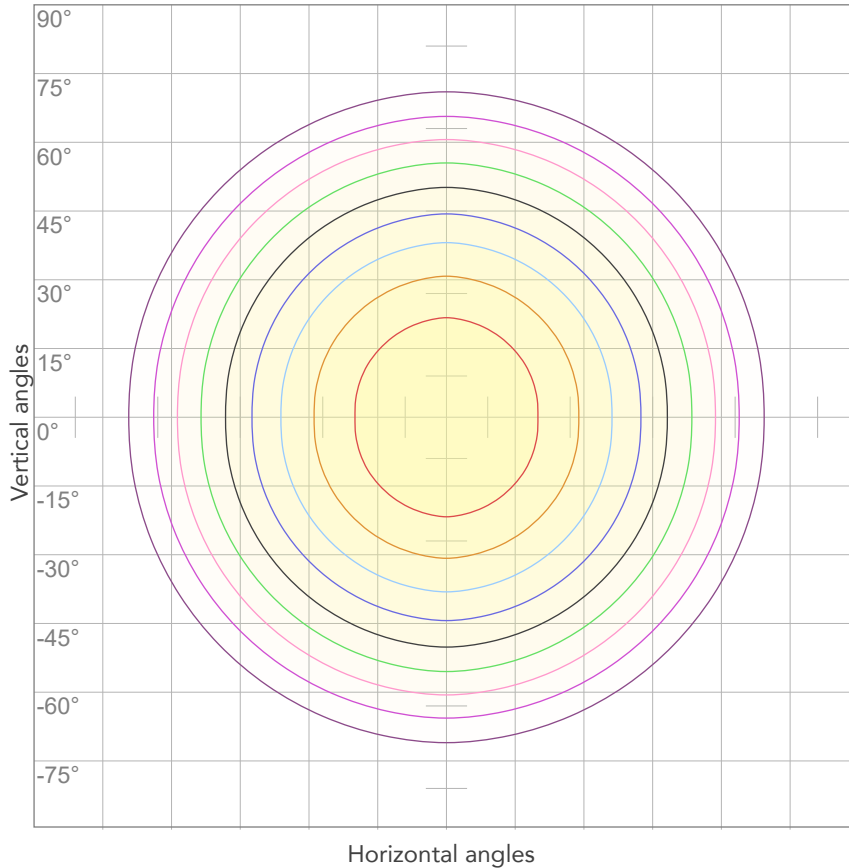


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,219A	43,5W	27lm/W

Power FC
0,89

ISO CANDELA DIAGRAM

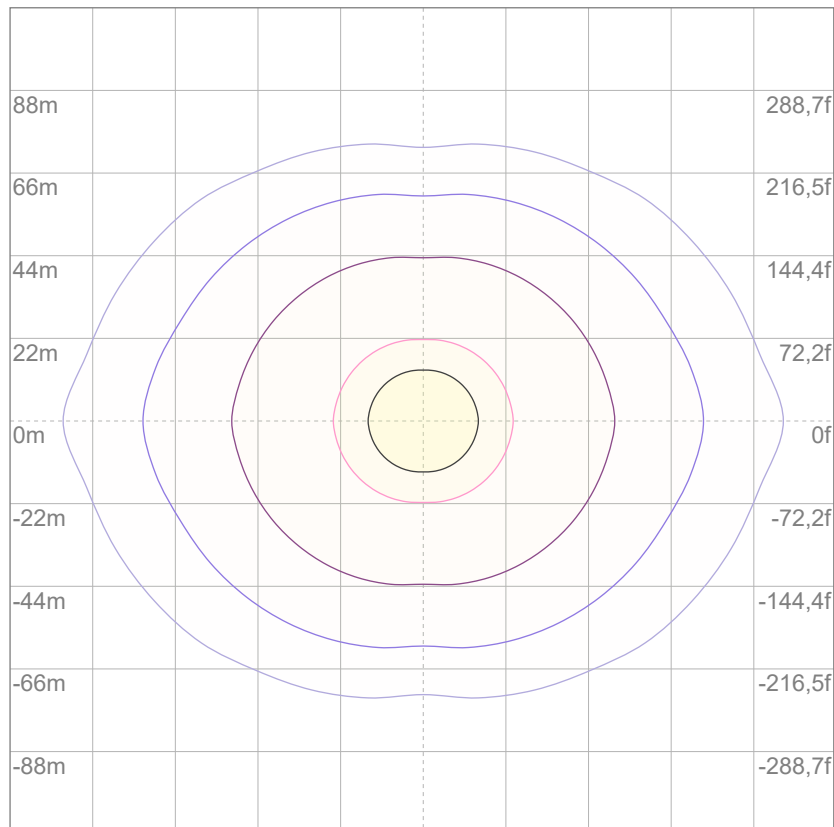


10%	43 cd
20%	86 cd
30%	130 cd
40%	173 cd
50%	216 cd
60%	259 cd
70%	302 cd
80%	346 cd

Conditions:

Number of c-planes: 4
Candela at center: 432 cd

ISO LUX DIAGRAM



3%	0,130 lx
5%	0,216 lx
10%	0,432 lx
30%	1,30 lx
50%	2,16 lx

Conditions:

Number of c-planes: 4
Lux at center: 4,32 lx

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

Total lumen output:

1444 lm

Peak candela output:

590 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

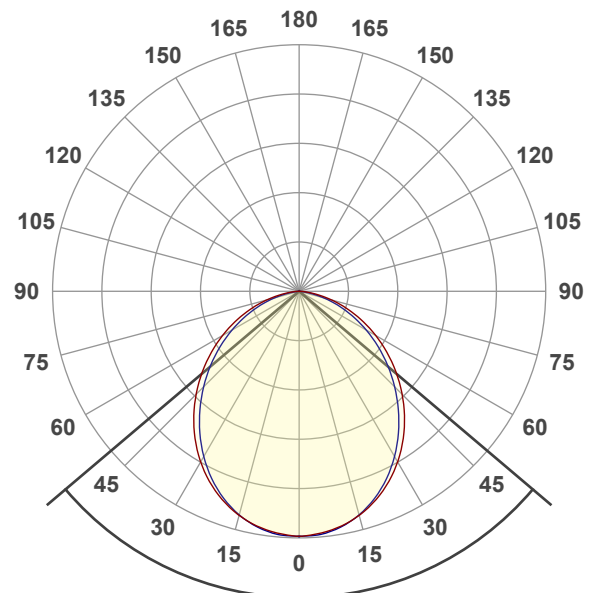
MEASURAMENT CONDITIONS:

Beam angle:
Filter MD

Target:
Red

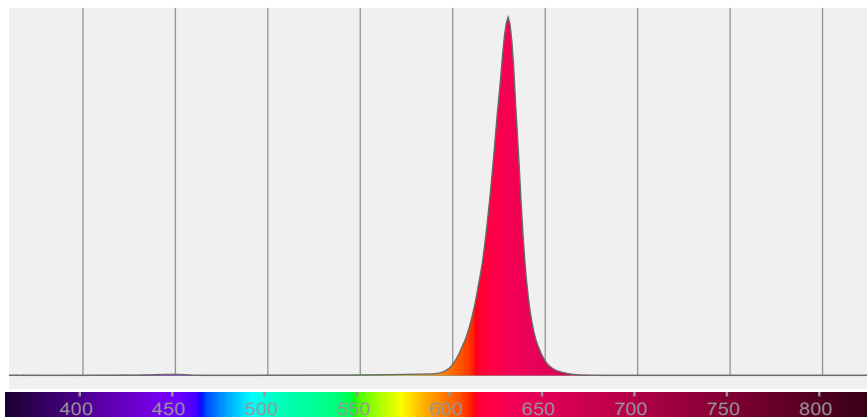
Operator:
Paolo Carvone

Date and time:
10/01/2022 13:21:31



Beam angle 50%: 99,4°
Field angle 10%: 153,1°
Cut off angle 2.5%: 167,4°

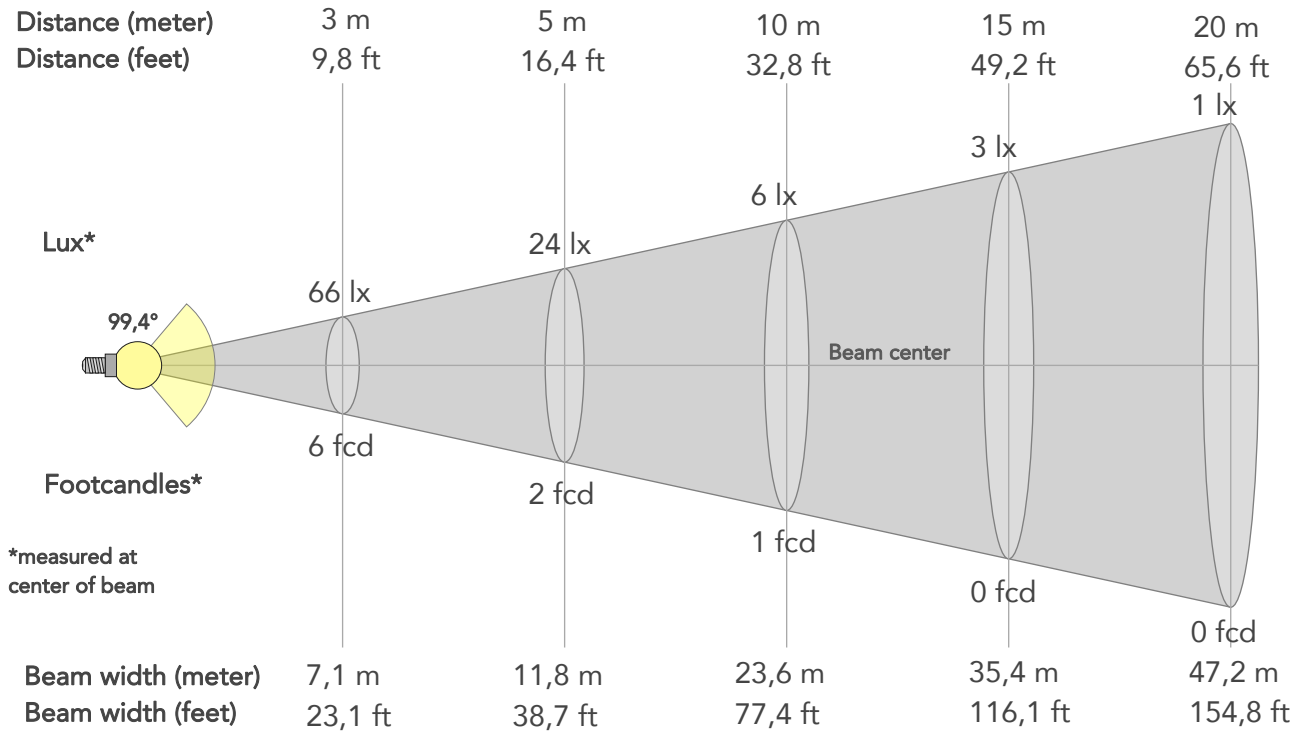
Spectra



BEAM DETAILS



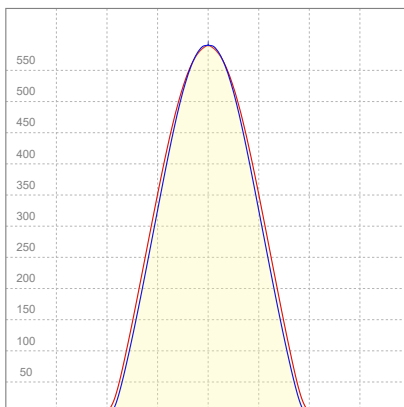
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
99,4°	153,1°	167,4°	82,4%	58,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	590lx	147lx	66lx	37lx	24lx	10lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	55fcd	14fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,4m	4,7m	7,1m	9,4m	11,8m	17,7m	23,6m	35,4m	47,2m	59m	70,8m	94,4m	118m
Beam wid.	7,8ft	15,6ft	23,1ft	30,9ft	38,7ft	58ft	77,4ft	116,1ft	154,8ft	193,5ft	232,1ft	309,5ft	386,9ft

LINEAR DISTRIBUTION DIAGRAM

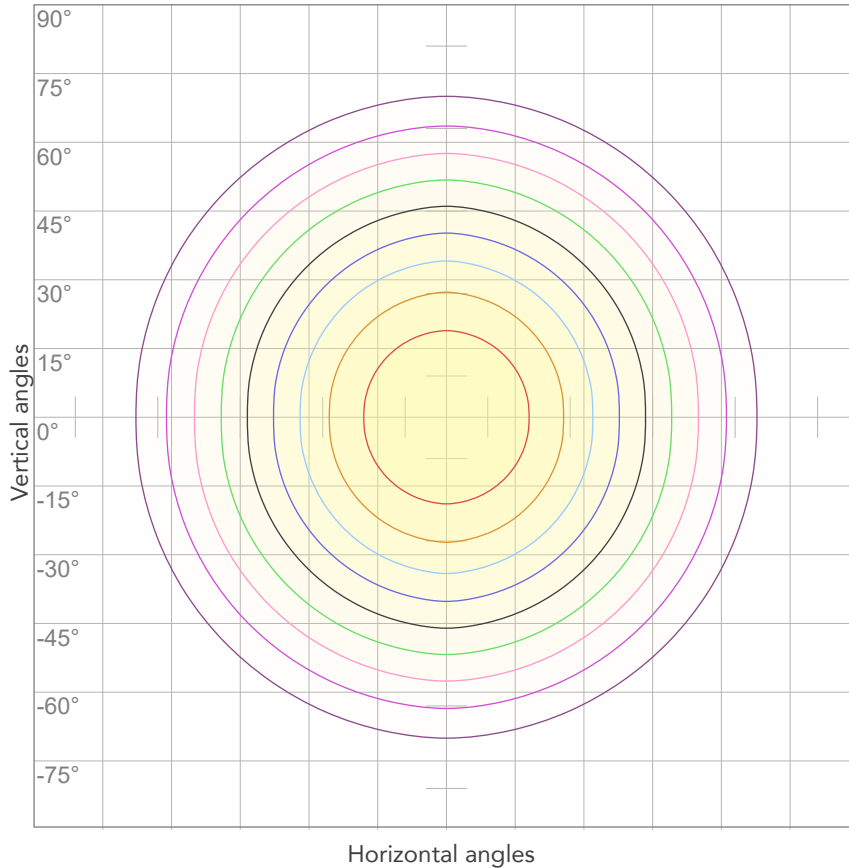


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,218A	43,7W	33lm/W

Power FC
0,89

ISO CANDELA DIAGRAM

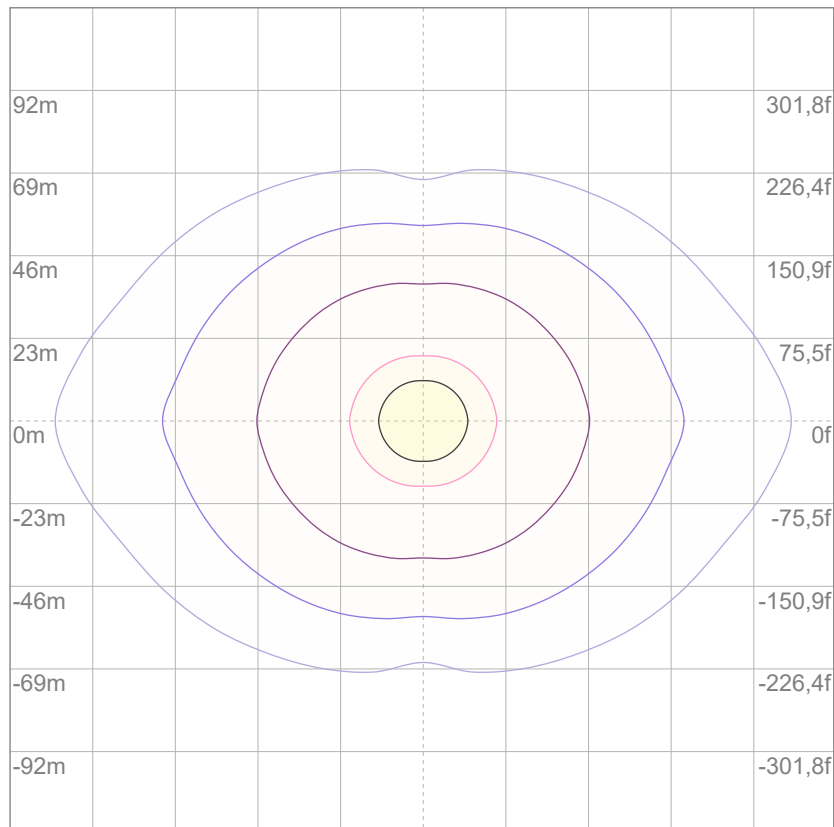


10%	59 cd
20%	118 cd
30%	177 cd
40%	236 cd
50%	295 cd
60%	354 cd
70%	413 cd
80%	472 cd

Conditions:

Number of c-planes: 4
Candela at center: 590 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,177 lx
5%	0,295 lx
10%	0,590 lx
30%	1,77 lx
50%	2,95 lx

Conditions:

Number of c-planes: 4
Lux at center: 5,90 lx

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

Total lumen output:

1624 lm

Peak candela output:

662 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

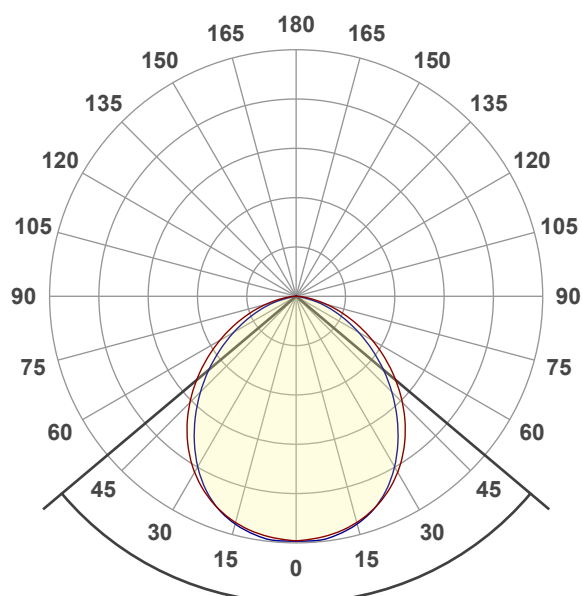
MEASUREMENT CONDITIONS:

Beam angle:
Filter LD

Target:
Red

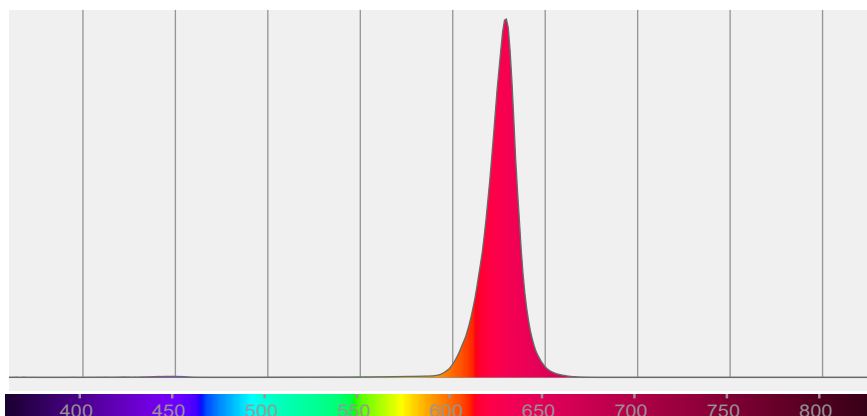
Operator:
Paolo Carvone

Date and time:
10/01/2022 14:09:17



Beam angle 50%: 99,8°
Field angle 10%: 151,3°
Cut off angle 2.5%: 166,5°

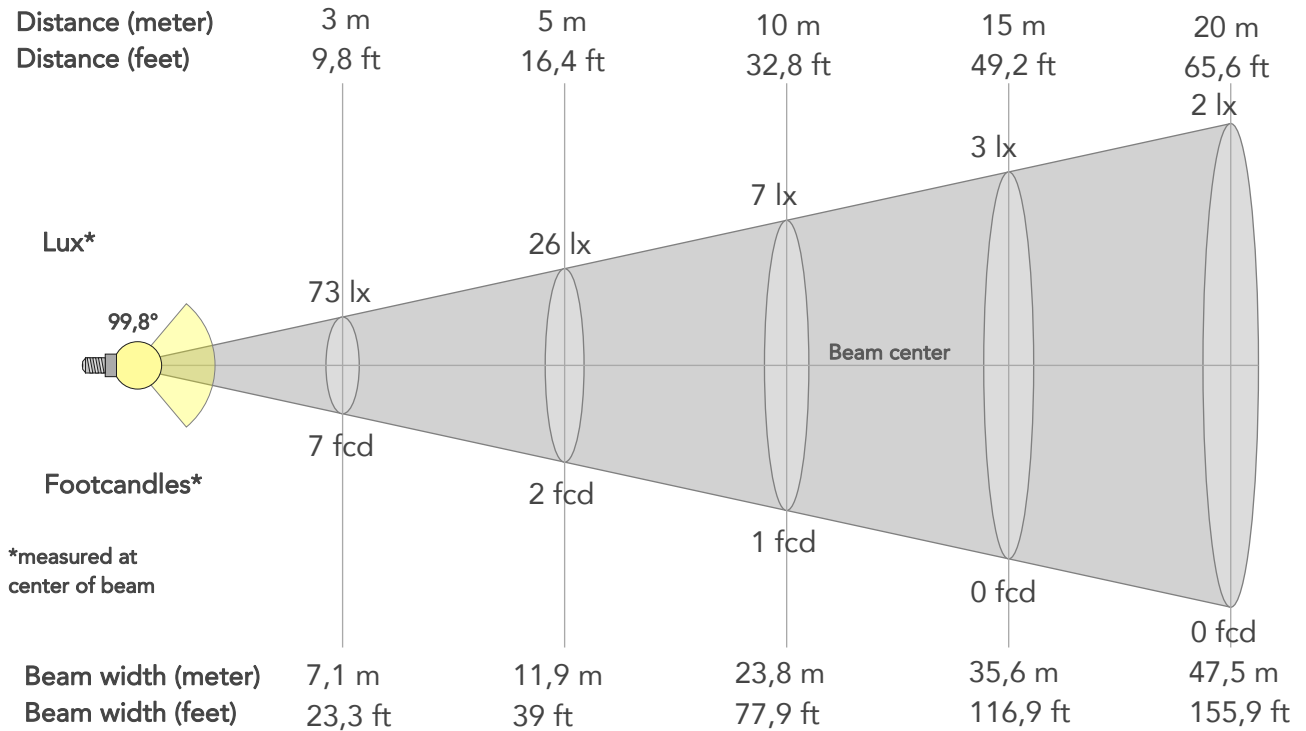
Spectra



BEAM DETAILS



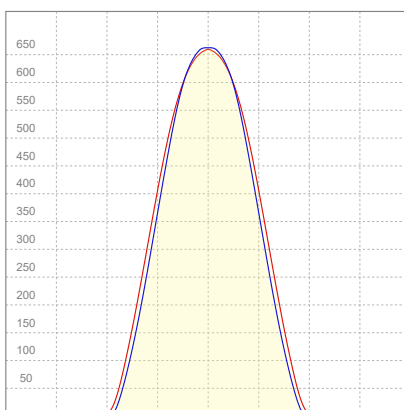
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
99,8°	151,3°	166,5°	83,4%	59,6%



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	660lx	165lx	73lx	41lx	26lx	12lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	61fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,4m	4,8m	7,1m	9,5m	11,9m	17,8m	23,8m	35,6m	47,5m	59,4m	71,3m	95m	118,8m
Beam wid.	7,8ft	15,7ft	23,3ft	31,1ft	39ft	58,4ft	77,9ft	116,9ft	155,9ft	194,8ft	233,8ft	311,7ft	389,6ft

LINEAR DISTRIBUTION DIAGRAM

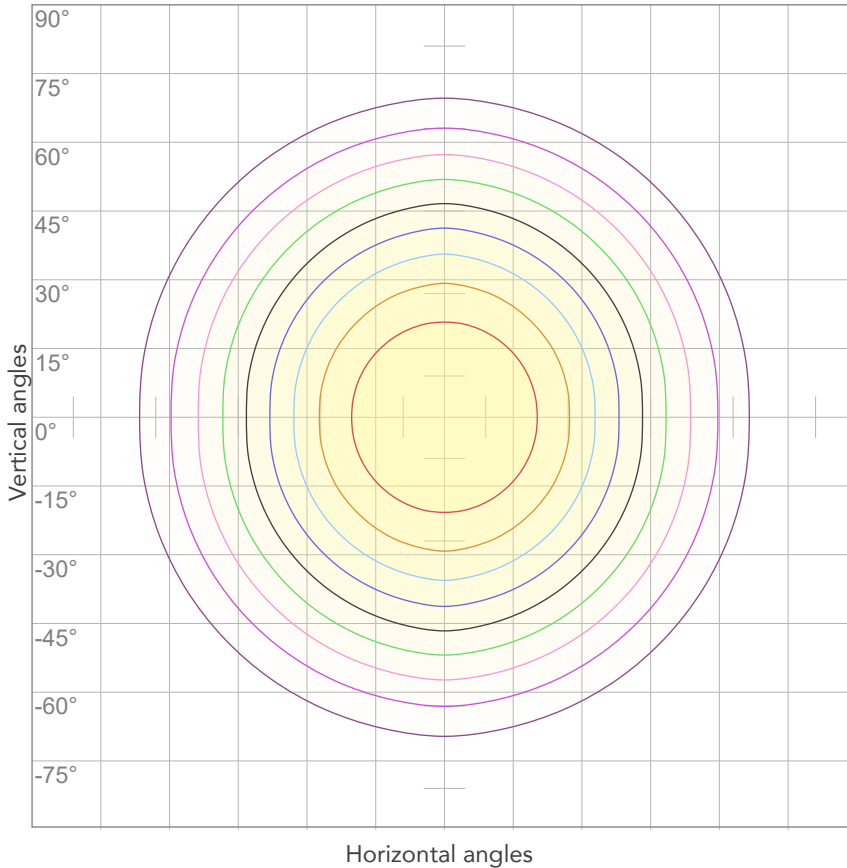


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,221A	44,7W	36lm/W

Power FC
0,9

ISO CANDELA DIAGRAM

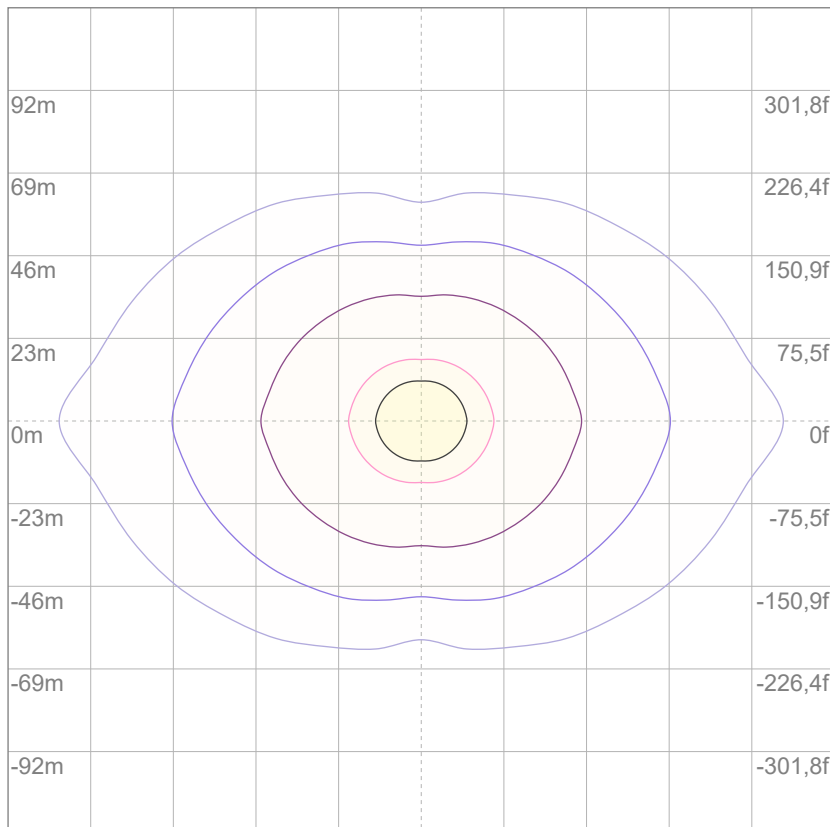


10%	66 cd
20%	132 cd
30%	198 cd
40%	264 cd
50%	330 cd
60%	396 cd
70%	462 cd
80%	528 cd

Conditions:

Number of c-planes: 4
Candela at center: 660 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,198 lx
5%	0,330 lx
10%	0,660 lx
30%	1,98 lx
50%	3,30 lx

Conditions:

Number of c-planes: 4
Lux at center: 6,60 lx

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

Total lumen output:

1192 lm

Peak candela output:

773 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

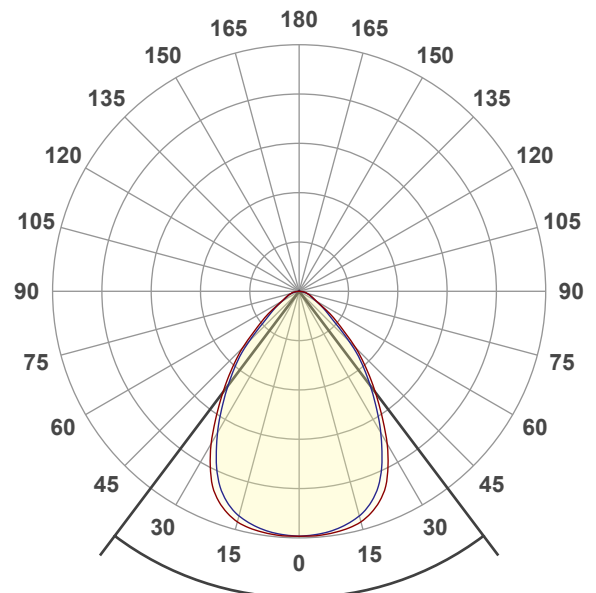
MEASURAMENT CONDITIONS:

Beam angle:
Filter MD

Target:
Red

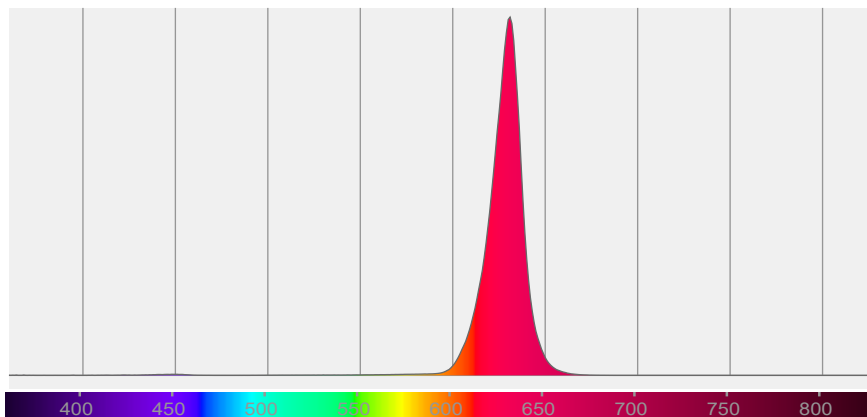
Operator:
Paolo Carvone

Date and time:
10/01/2022 15:02:39



Beam angle 50%: 74°
Field angle 10%: 115,4°
Cut off angle 2.5%: 157,1°

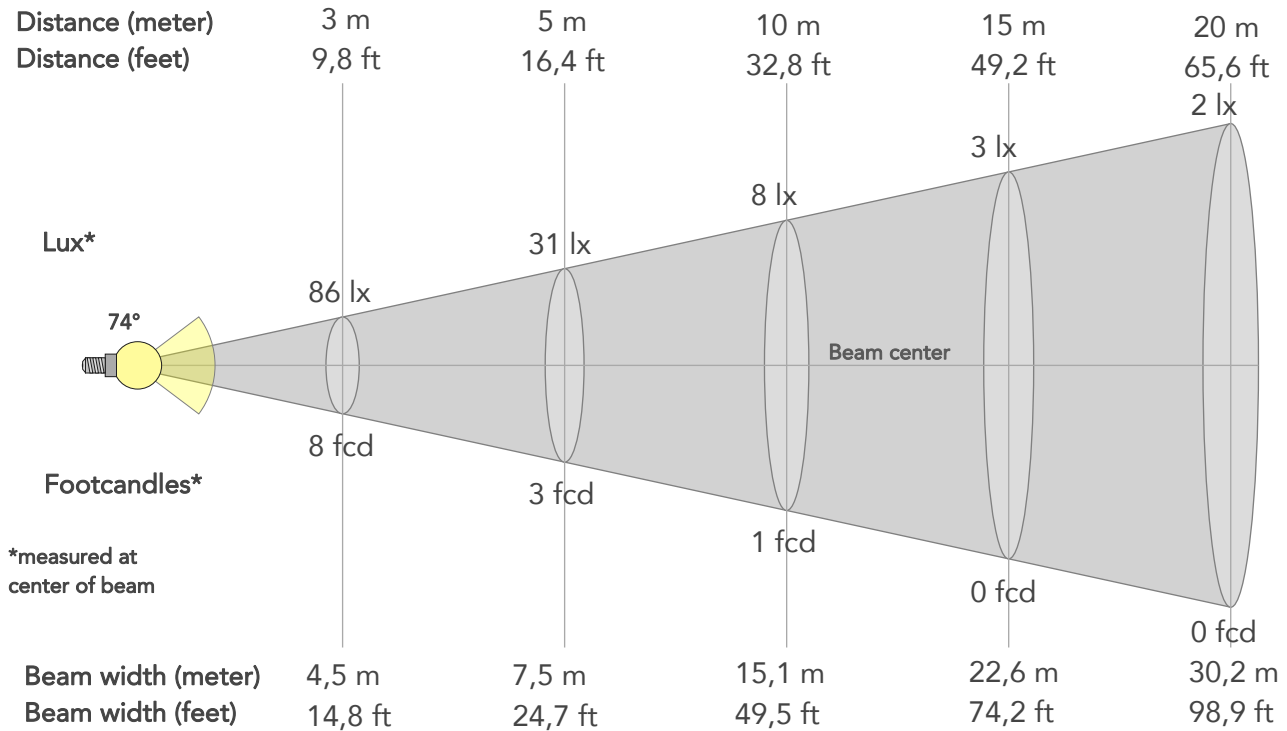
Spectra



BEAM DETAILS



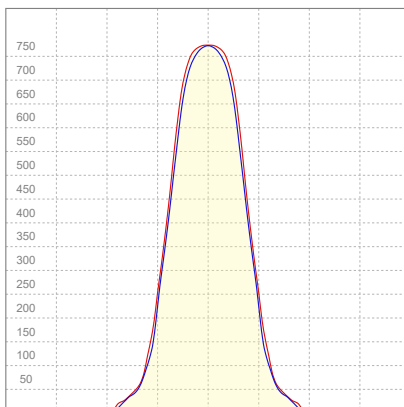
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74°	115,4°	157,1°	93,2%	79,1%



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	773lx	193lx	86lx	48lx	31lx	14lx	8lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	72fcd	18fcd	8fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,5m	6m	7,5m	11,3m	15,1m	22,6m	30,2m	37,7m	45,2m	60,3m	75,4m
Beam wid.	5ft	10ft	14,8ft	19,8ft	24,7ft	37,1ft	49,5ft	74,2ft	98,9ft	123,7ft	148,4ft	197,9ft	247,3ft

LINEAR DISTRIBUTION DIAGRAM

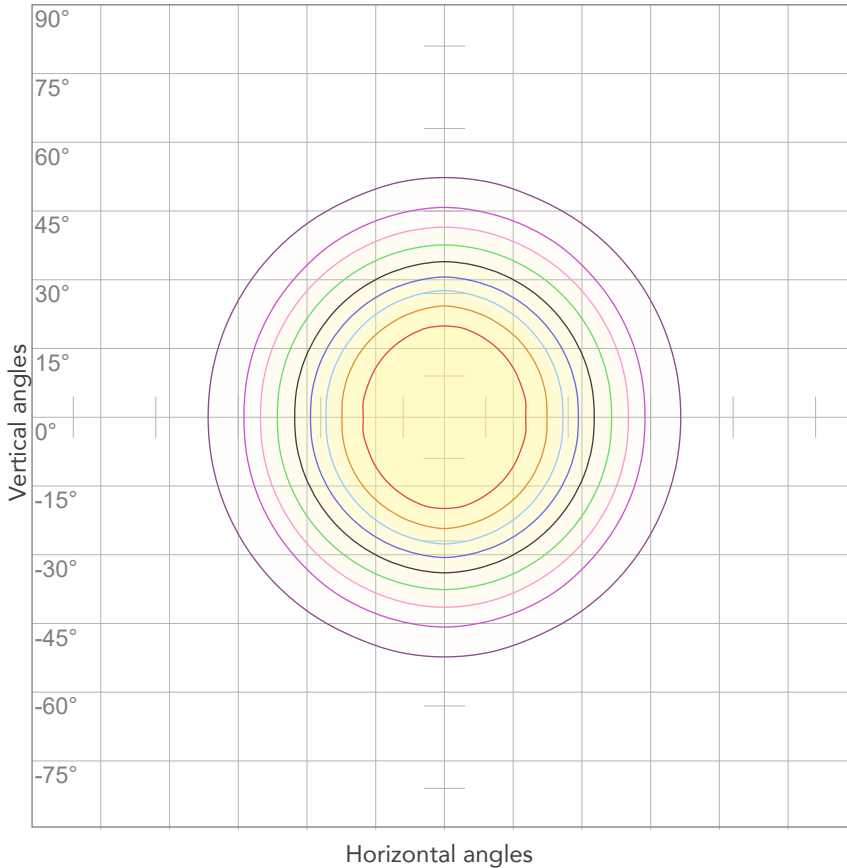


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,216A	43,4W	27lm/W

Power FC
0,9

ISO CANDELA DIAGRAM



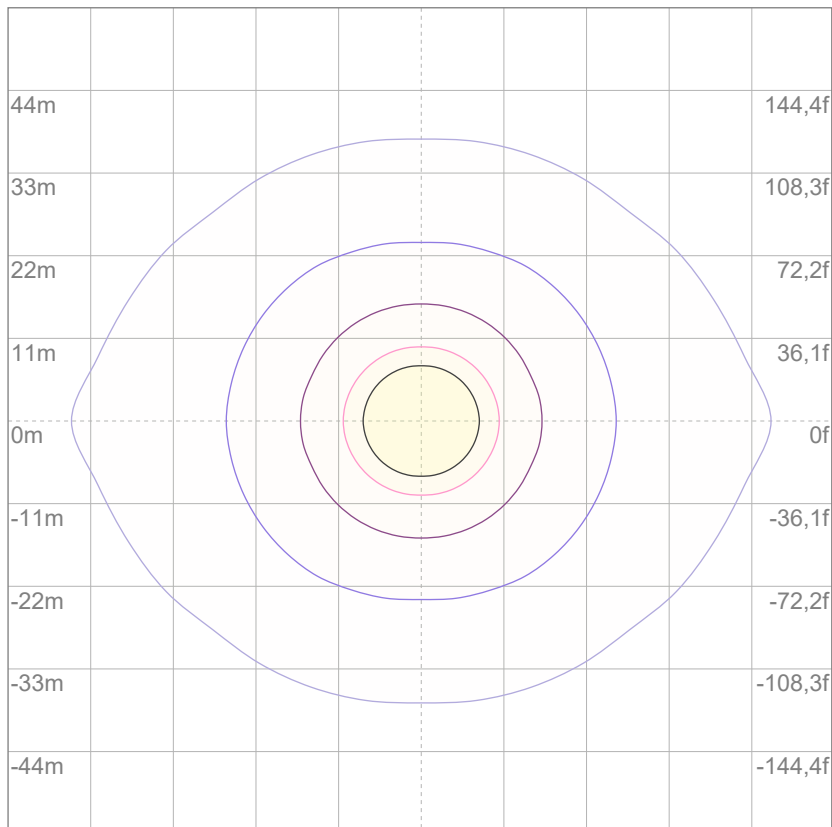
10%	77 cd
20%	155 cd
30%	232 cd
40%	309 cd
50%	386 cd
60%	464 cd
70%	541 cd
80%	618 cd

Conditions:

Number of c-planes: 4

Candela at center: 773 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,232 lx
5%	0,386 lx
10%	0,773 lx
30%	2,32 lx
50%	3,86 lx

Conditions:

Number of c-planes: 4

Lux at center: 7,73 lx

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

Total lumen output:

2714 lm

Peak candela output:

984 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

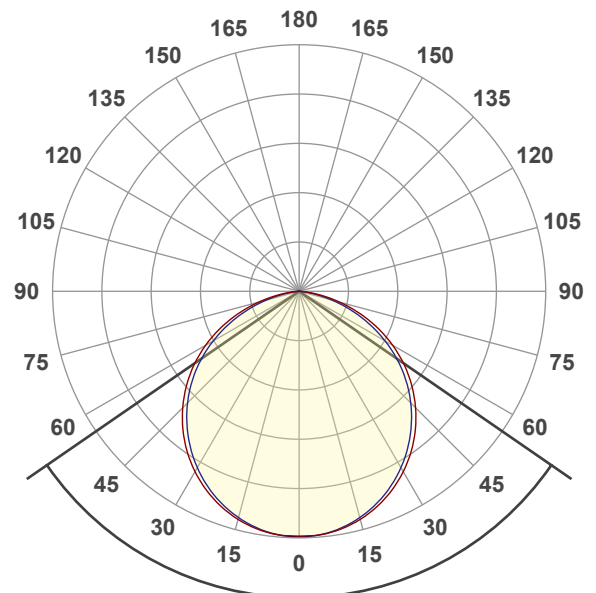
MEASURAMENT CONDITIONS:

Beam angle:
Filter HD

Target:
Green

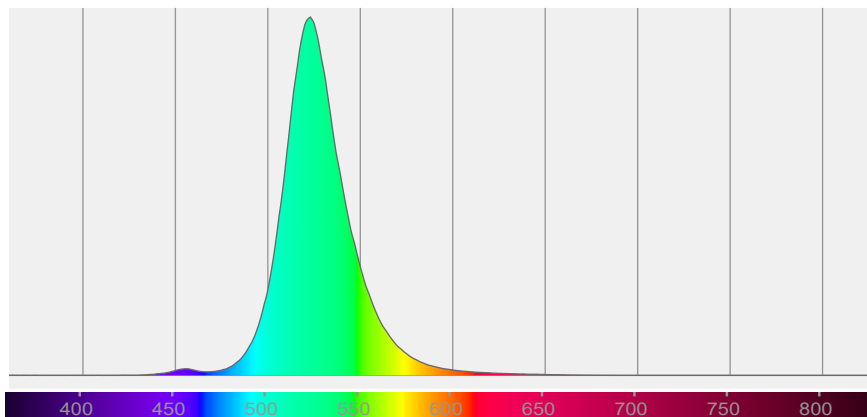
Operator:
Paolo Carvone

Date and time:
10/01/2022 15:57:22



Beam angle 50%: 110,8°
Field angle 10%: 156,5°
Cut off angle 2.5%: 167,5°

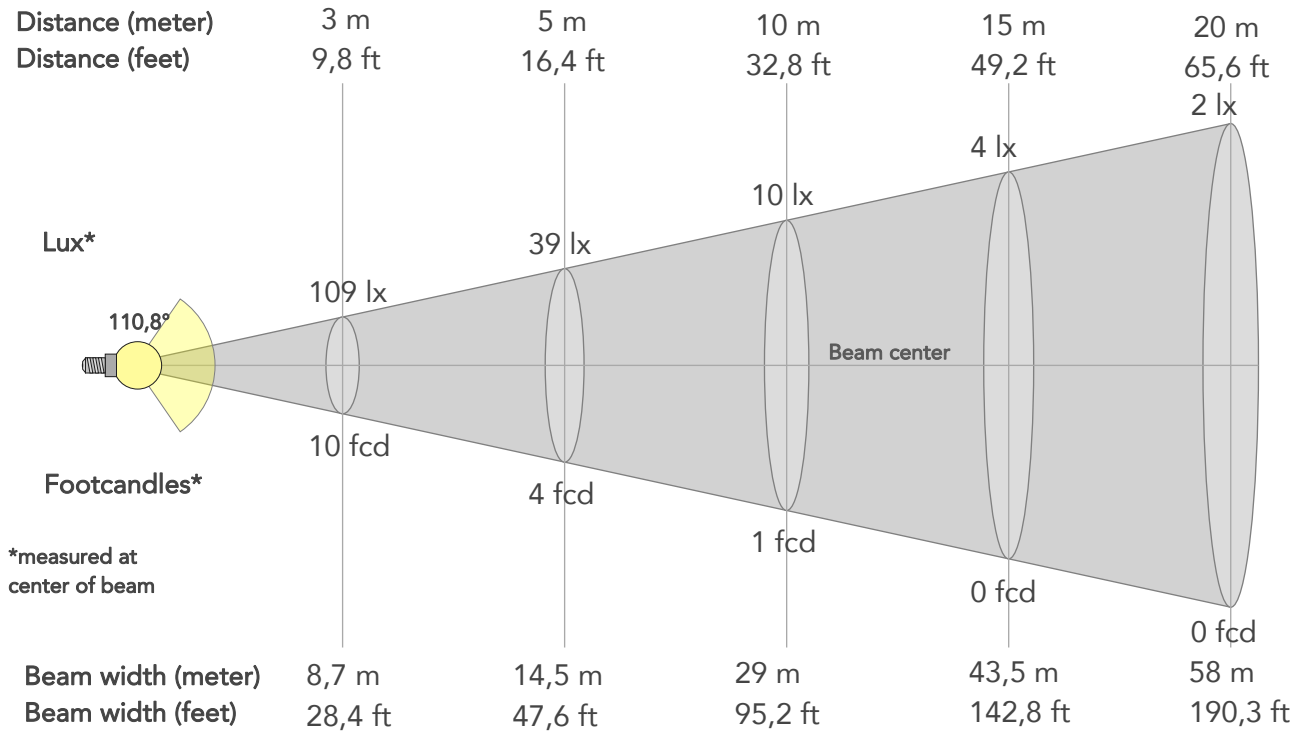
Spectra



BEAM DETAILS



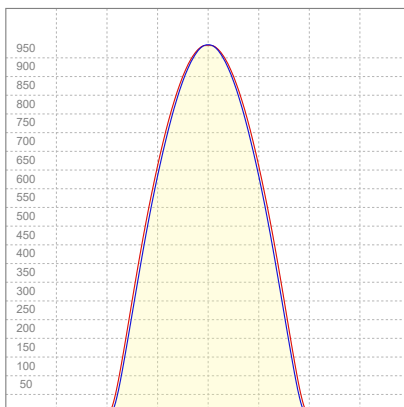
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
110,8°	156,5°	167,5°	80,7%	55,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	983lx	246lx	109lx	61lx	39lx	17lx	10lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	91fcd	23fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,9m	5,8m	8,7m	11,6m	14,5m	21,8m	29m	43,5m	58m	72,5m	87m	116,1m	145,1m
Beam wid.	9,6ft	19,2ft	28,4ft	38ft	47,6ft	71,4ft	95,2ft	142,8ft	190,3ft	237,9ft	285,5ft	380,7ft	475,9ft

LINEAR DISTRIBUTION DIAGRAM

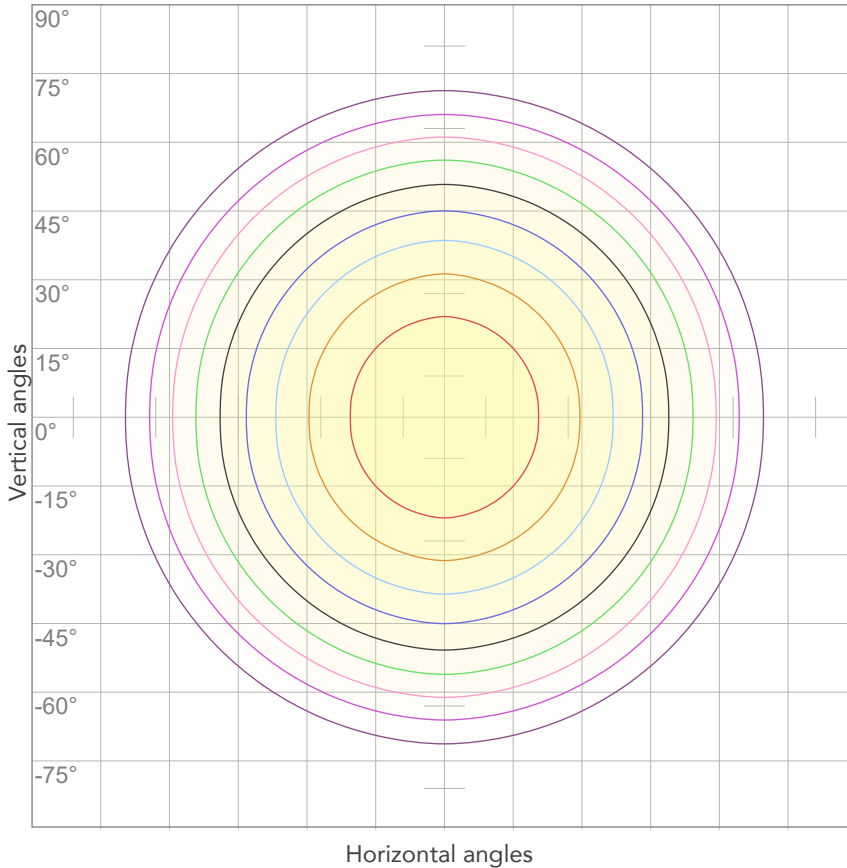


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,281A	57,5W	47lm/W

Power FC
0,91

ISO CANDELA DIAGRAM

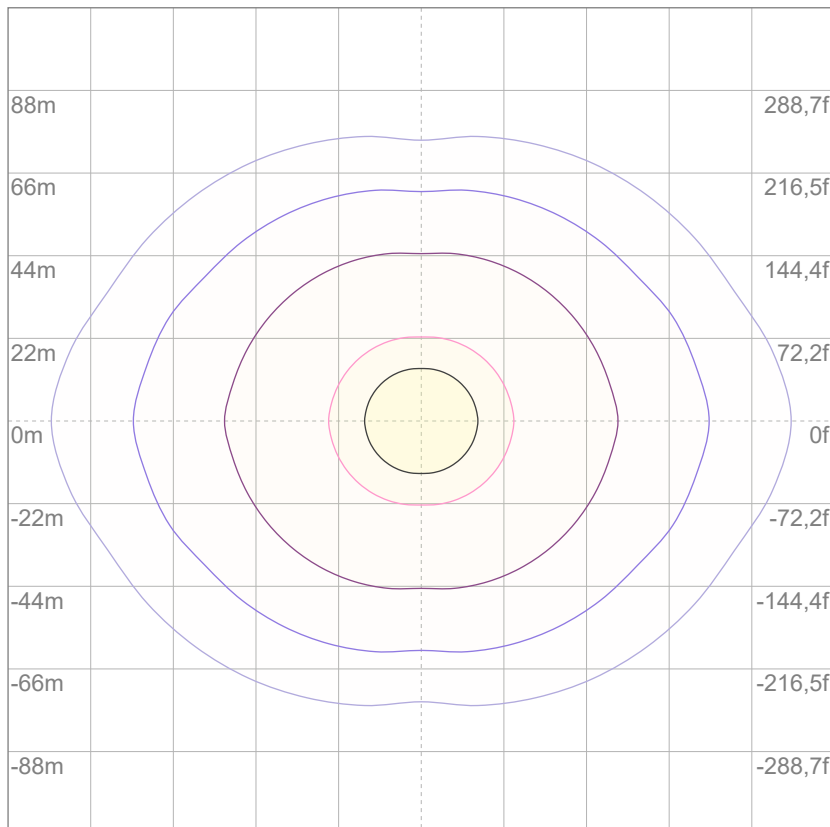


10%	98 cd
20%	197 cd
30%	295 cd
40%	393 cd
50%	492 cd
60%	590 cd
70%	688 cd
80%	787 cd

Conditions:

Number of c-planes: 4
Candela at center: 983 cd

ISO LUX DIAGRAM



3%	0,295 lx
5%	0,492 lx
10%	0,983 lx
30%	2,95 lx
50%	4,92 lx

Conditions:

Number of c-planes: 4
Lux at center: 9,83 lx

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

Total lumen output:

3201 lm

Peak candela output:

1284 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

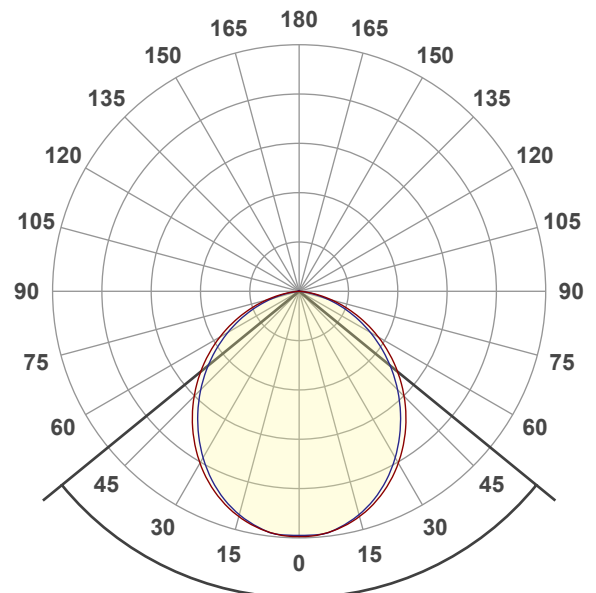
MEASURAMENT CONDITIONS:

Beam angle:
Filter MD

Target:
Green

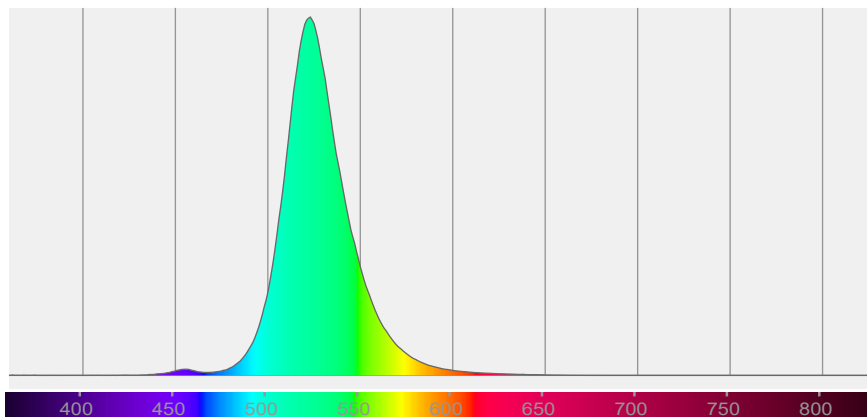
Operator:
Paolo Carvone

Date and time:
10/01/2022 13:23:10



Beam angle 50%: 101,5°
Field angle 10%: 153,8°
Cut off angle 2.5%: 166,5°

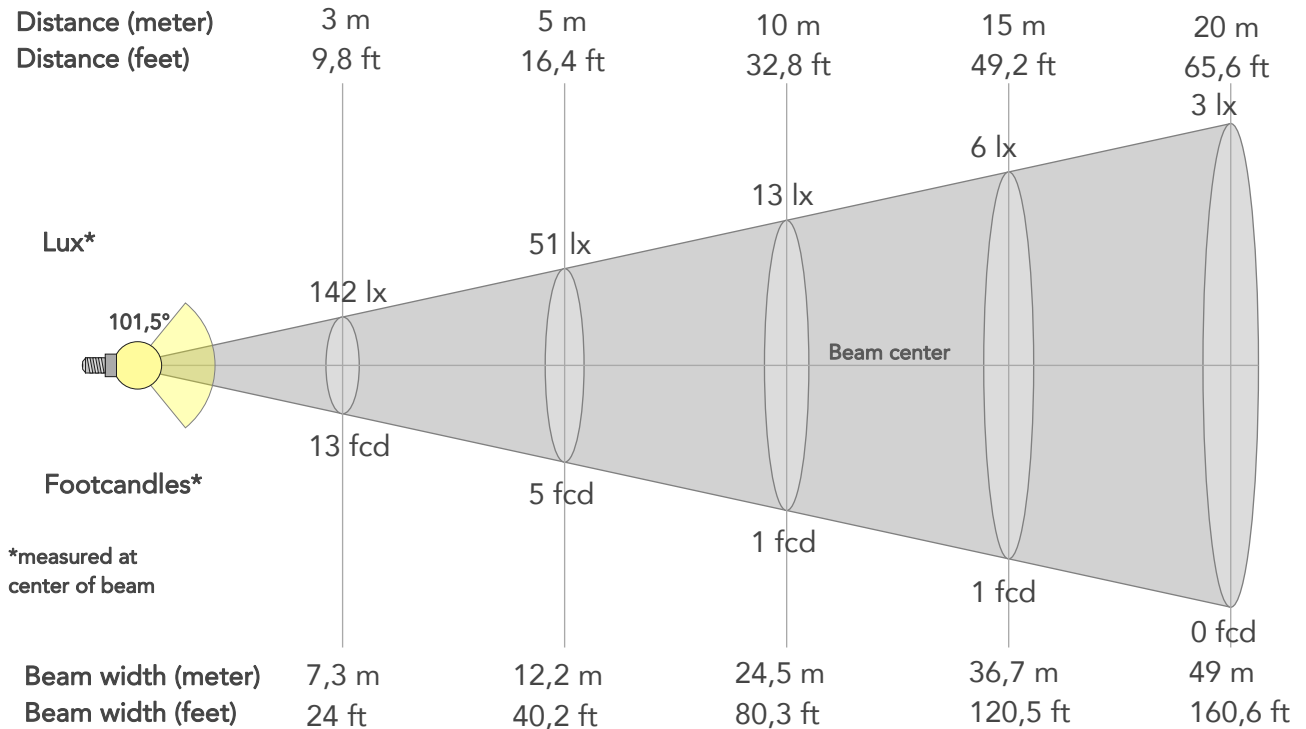
Spectra



BEAM DETAILS



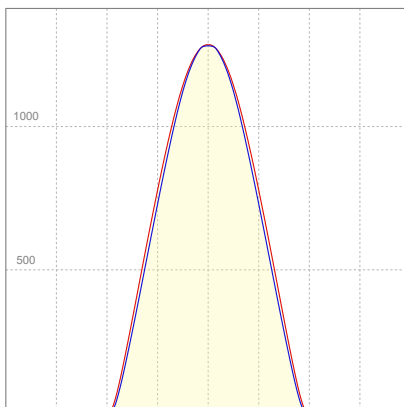
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
101,5°	153,8°	166,5°	82,3%	57,9%



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	1281lx	320lx	142lx	80lx	51lx	23lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	119fcd	30fcd	13fcd	7fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,4m	4,9m	7,3m	9,8m	12,2m	18,4m	24,5m	36,7m	49m	61,2m	73,5m	98m	122,4m
Beam wid.	8,1ft	16,2ft	24ft	32,1ft	40,2ft	60,2ft	80,3ft	120,5ft	160,6ft	200,8ft	241ft	321,3ft	401,6ft

LINEAR DISTRIBUTION DIAGRAM

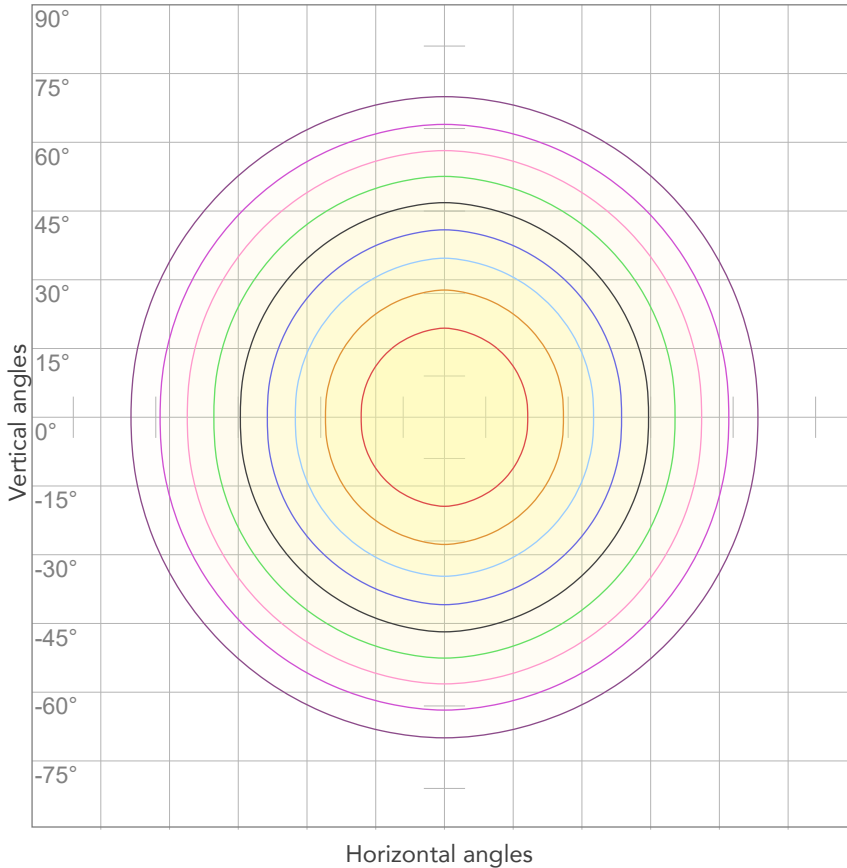


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,284A	58,1W	55lm/W

Power FC
0,91

ISO CANDELA DIAGRAM



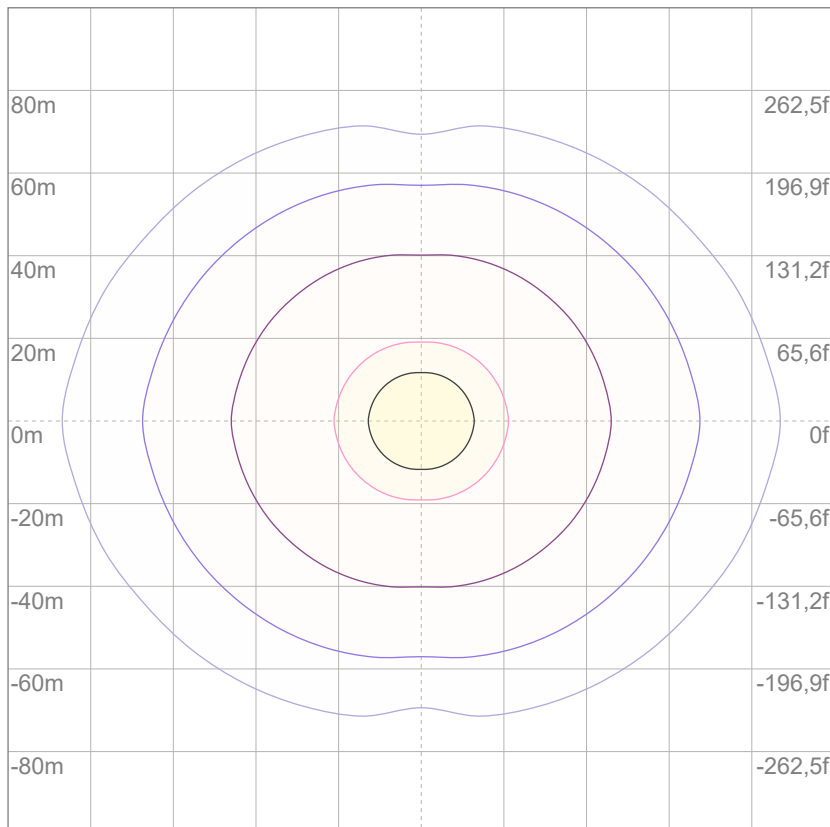
10%	128 cd
20%	256 cd
30%	384 cd
40%	512 cd
50%	641 cd
60%	769 cd
70%	897 cd
80%	1025 cd

Conditions:

Number of c-planes: 4

Candela at center: 1281 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,384 lx
5%	0,641 lx
10%	1,28 lx
30%	3,84 lx
50%	6,41 lx

Conditions:

Number of c-planes: 4

Lux at center: 12,8 lx

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

Total lumen output:

3352 lm

Peak candela output:

1364 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

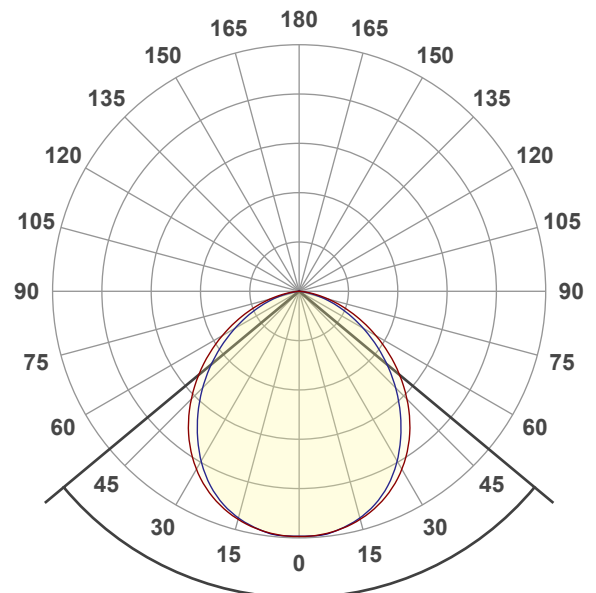
MEASUREMENT CONDITIONS:

Beam angle:
Filter LD

Target:
Green

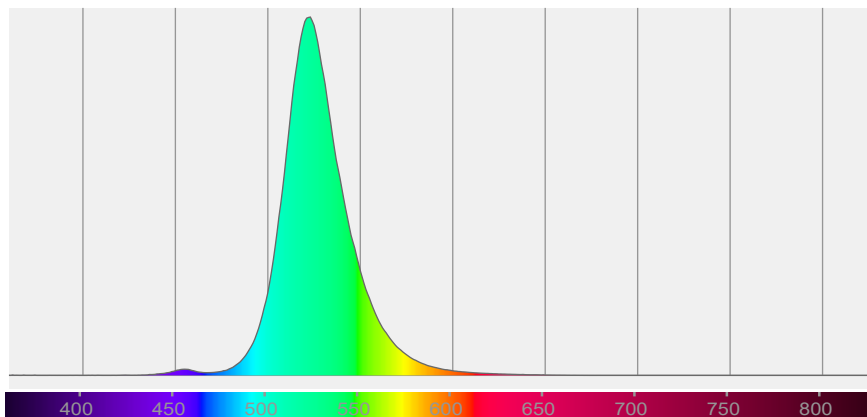
Operator:
Paolo Carvone

Date and time:
10/01/2022 14:10:56



Beam angle 50%: 100,5°
Field angle 10%: 151,1°
Cut off angle 2.5%: 165°

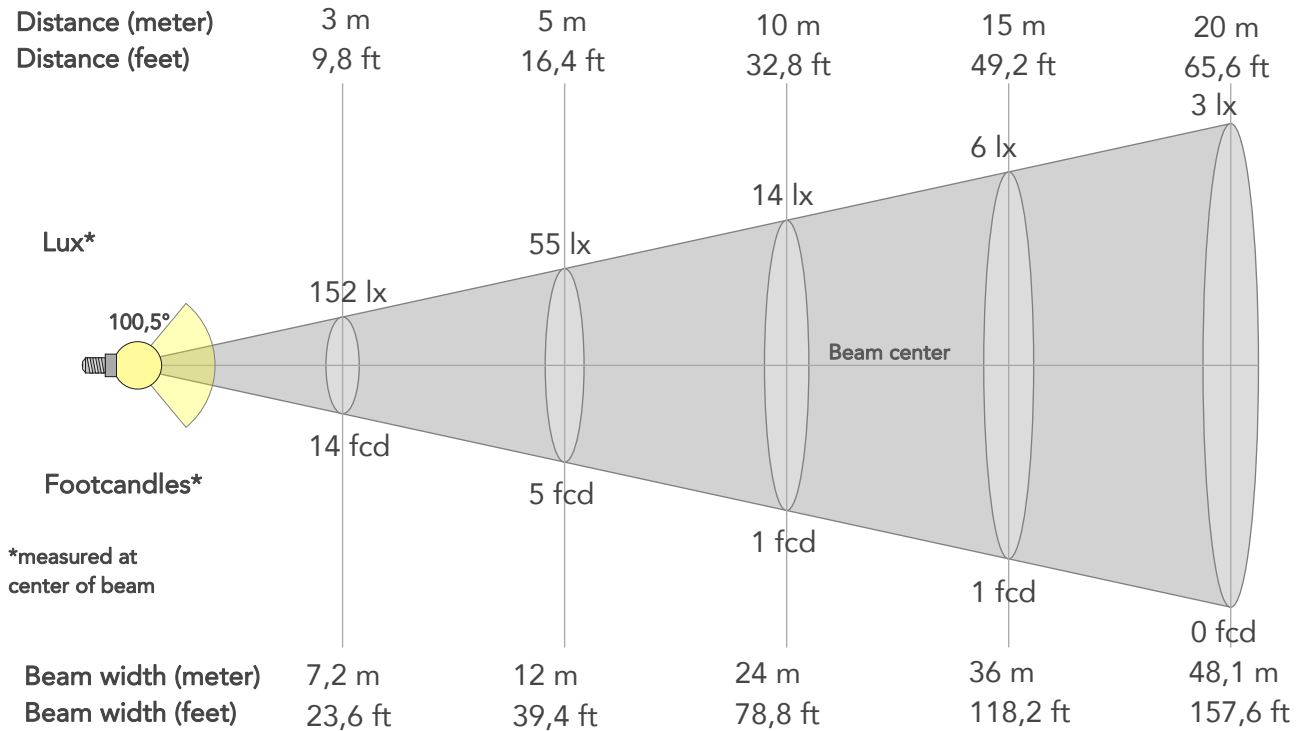
Spectra



BEAM DETAILS



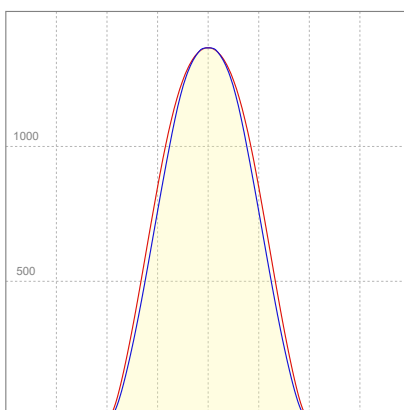
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
100,5°	151,1°	165°	84,0%	59,9%



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	1364lx	341lx	152lx	85lx	55lx	24lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	127fcd	32fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,4m	4,8m	7,2m	9,6m	12m	18m	24m	36m	48,1m	60,1m	72,1m	96,1m	120,2m
Beam wid.	7,9ft	15,9ft	23,6ft	31,5ft	39,4ft	59,1ft	78,8ft	118,2ft	157,6ft	197,1ft	236,5ft	315,3ft	394,1ft

LINEAR DISTRIBUTION DIAGRAM

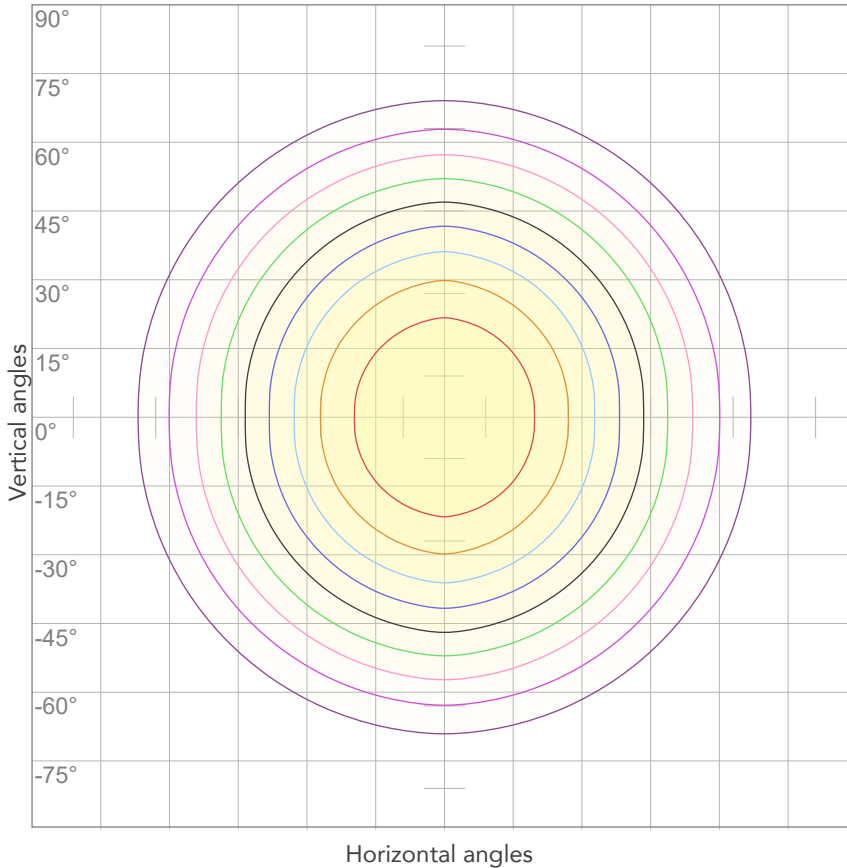


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,289A	59,6W	56lm/W

Power FC
0,91

ISO CANDELA DIAGRAM



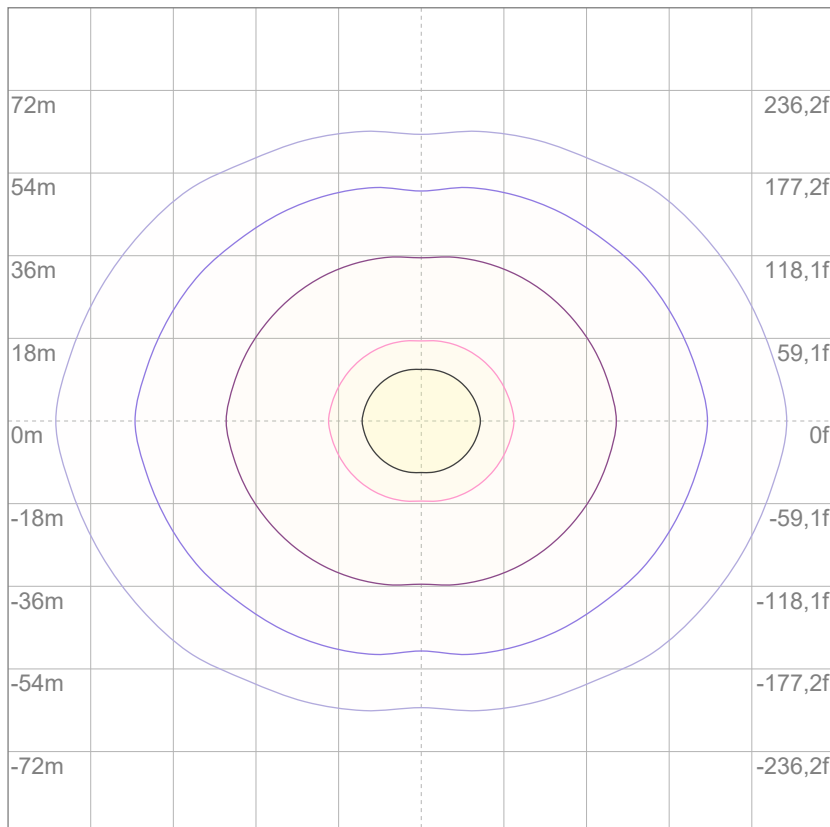
10%	136 cd
20%	273 cd
30%	409 cd
40%	546 cd
50%	682 cd
60%	818 cd
70%	955 cd
80%	1091 cd

Conditions:

Number of c-planes: 4

Candela at center: 1364 cd

ISO LUX DIAGRAM



3%	0,409 lx
5%	0,682 lx
10%	1,36 lx
30%	4,09 lx
50%	6,82 lx

Conditions:

Number of c-planes: 4

Lux at center: 13,6 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:

2789 lm

Peak candela output:

1791 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

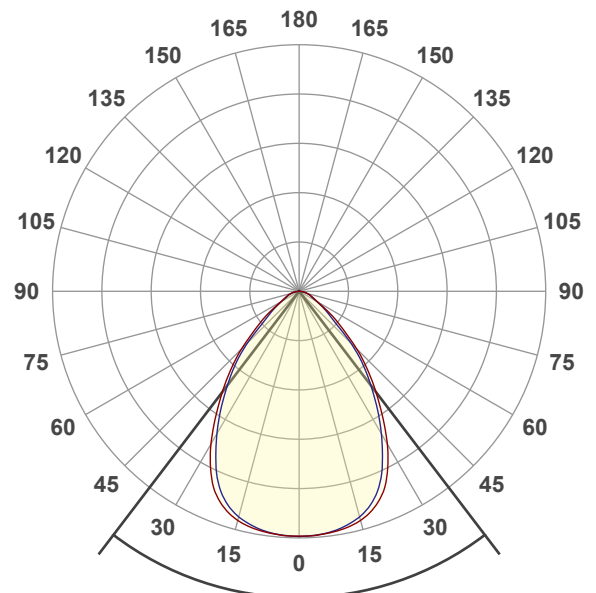
MEASUREMENT CONDITIONS:

Beam angle:
Filter INT

Target:
Green

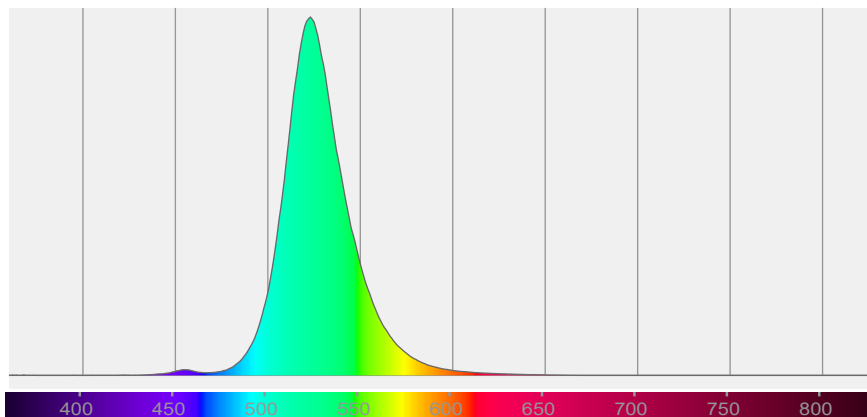
Operator:
Paolo Carvone

Date and time:
10/01/2022 15:05:01



Beam angle 50%: 74,6°
Field angle 10%: 116,4°
Cut off angle 2.5%: 157,1°

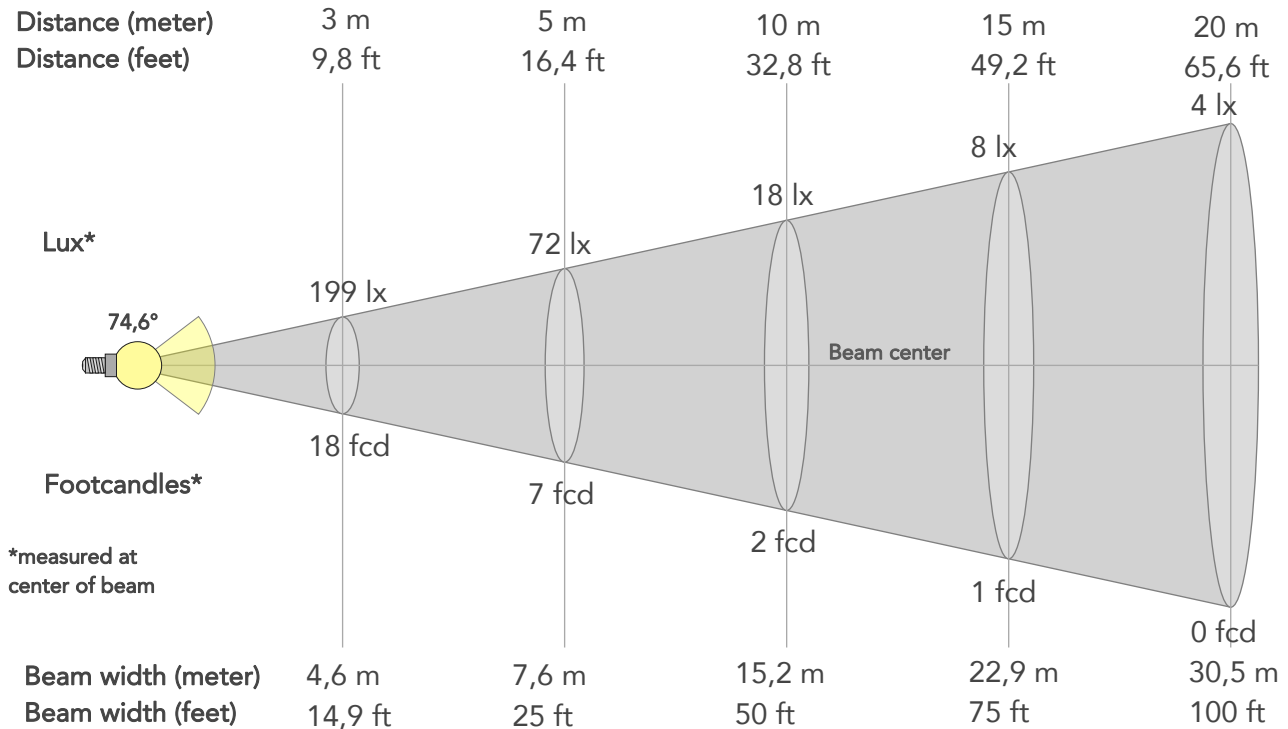
Spectra



BEAM DETAILS



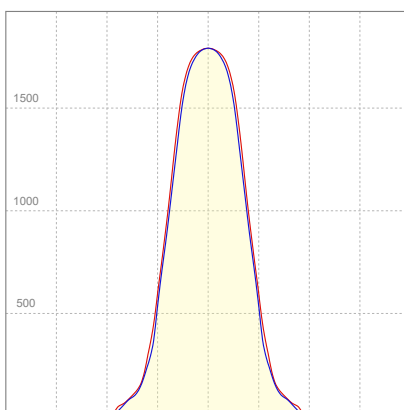
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,6°	116,4°	157,1°	93,2%	78,8%



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	1791lx	448lx	199lx	112lx	72lx	32lx	18lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	166fcd	42fcd	18fcd	10fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,6m	6,1m	7,6m	11,4m	15,2m	22,9m	30,5m	38,1m	45,7m	61m	76,2m
Beam wid.	5ft	10,1ft	14,9ft	20ft	25ft	37,5ft	50ft	75ft	100ft	125ft	150ft	200ft	250ft

LINEAR DISTRIBUTION DIAGRAM

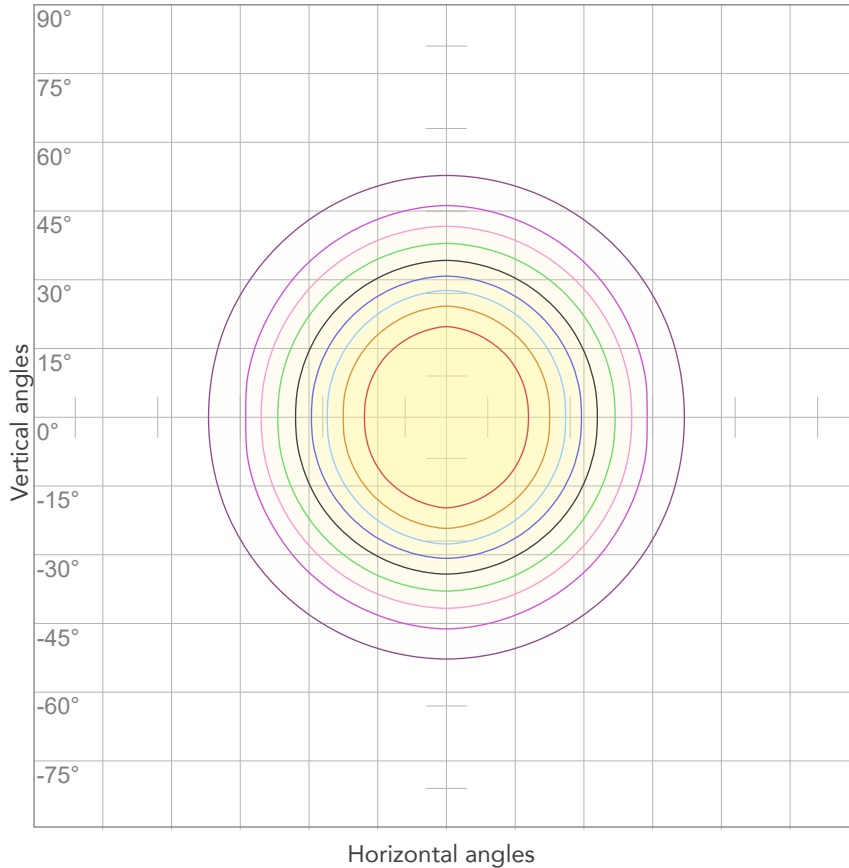


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Efficiency
223V	0,283A	57,5W	49lm/W

Power FC
0,91

ISO CANDELA DIAGRAM



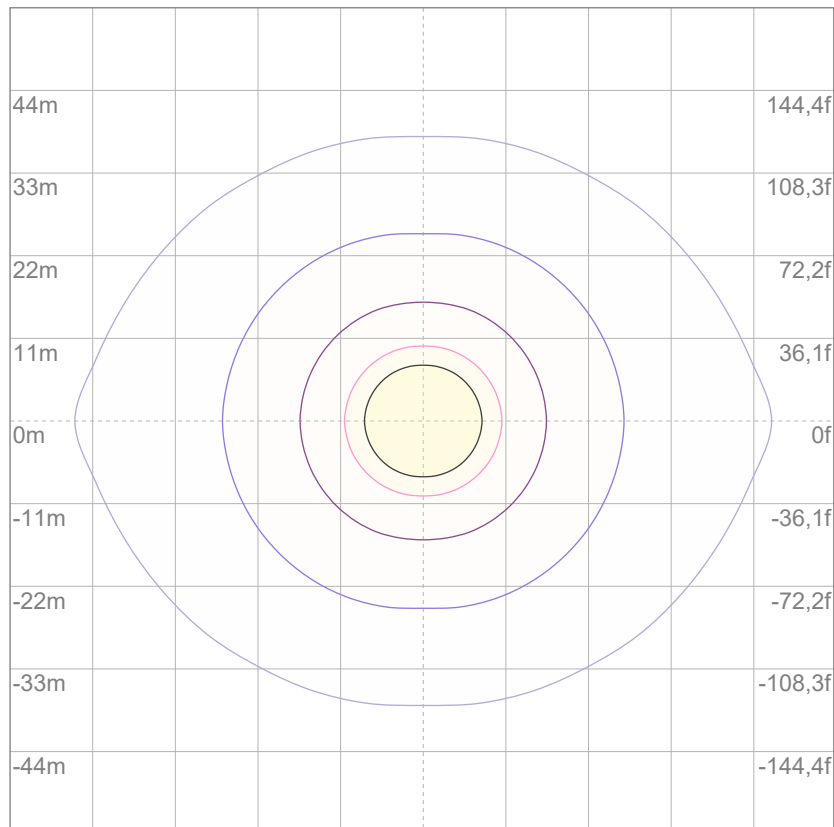
10%	179 cd
20%	358 cd
30%	537 cd
40%	716 cd
50%	895 cd
60%	1074 cd
70%	1254 cd
80%	1433 cd

Conditions:

Number of c-planes: 4

Candela at center: 1791 cd

ISO LUX DIAGRAM



3%	0,537 lx
5%	0,895 lx
10%	1,79 lx
30%	5,37 lx
50%	8,95 lx

Conditions:

Number of c-planes: 4

Lux at center: 17,9 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:

199 lm

Peak candela output:

75,2 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

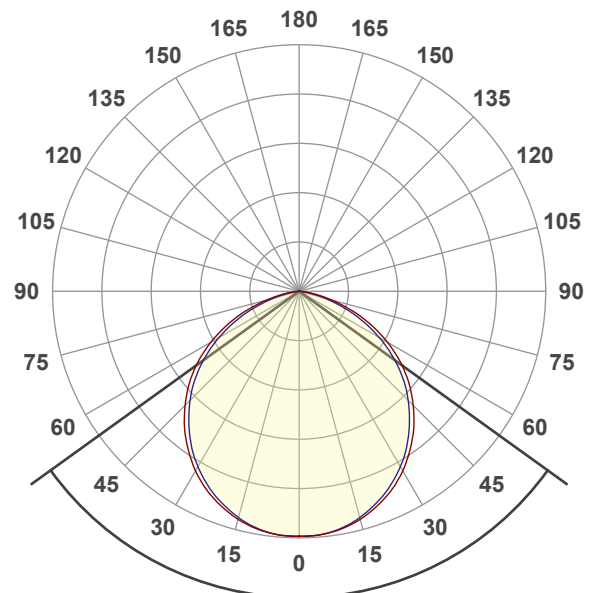
MEASUREMENT CONDITIONS:

Beam angle:
Filter HD

Target:
Blue

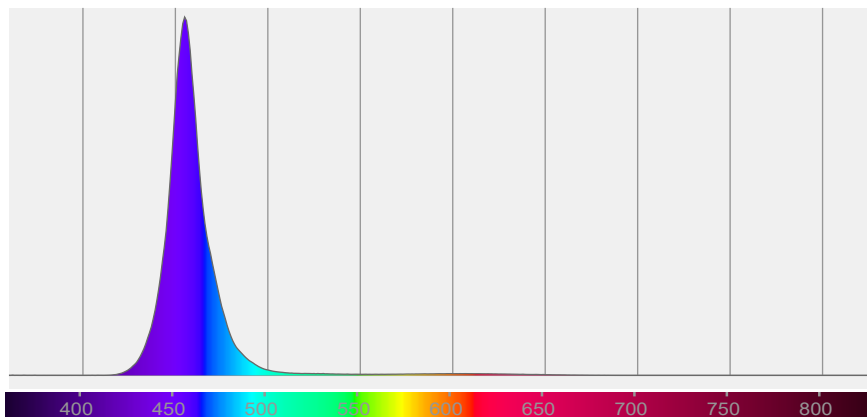
Operator:
Paolo Carvone

Date and time:
10/01/2022 15:58:56



Beam angle 50%: 108,5°
Field angle 10%: 153°
Cut off angle 2.5%: 165,8°

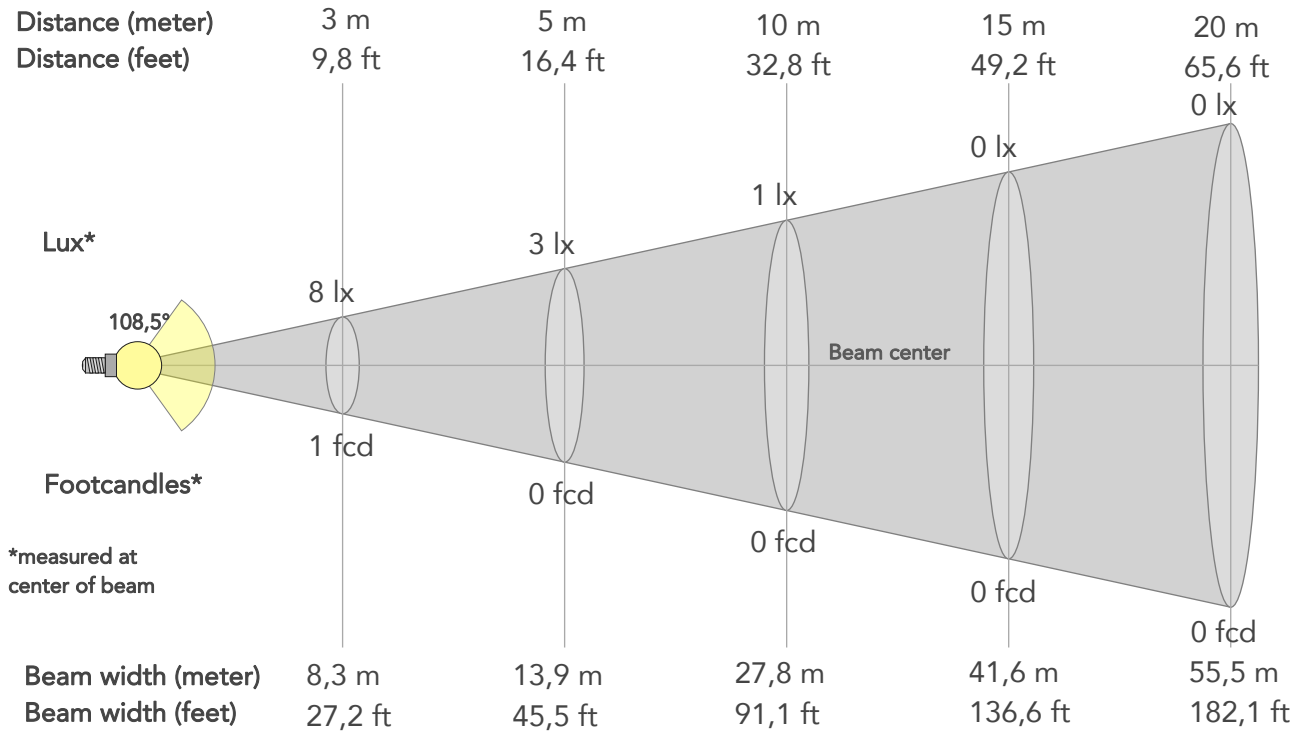
Spectra



BEAM DETAILS



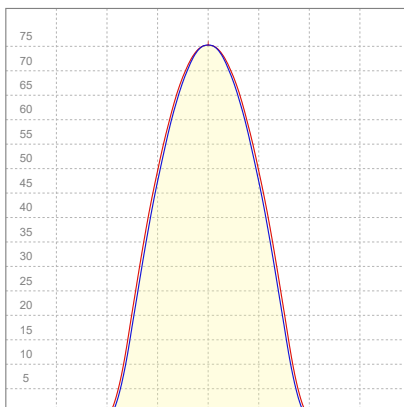
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
108,5°	153°	165,8°	82,6%	57,0%



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	75lx	19lx	8lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
Footcand.	7fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,8m	5,6m	8,3m	11,1m	13,9m	20,8m	27,8m	41,6m	55,5m	69,4m	83,3m	111,1m	138,8m
Beam wid.	9,2ft	18,3ft	27,2ft	36,4ft	45,5ft	68,3ft	91,1ft	136,6ft	182,1ft	227,7ft	273,2ft	364,2ft	455,3ft

LINEAR DISTRIBUTION DIAGRAM

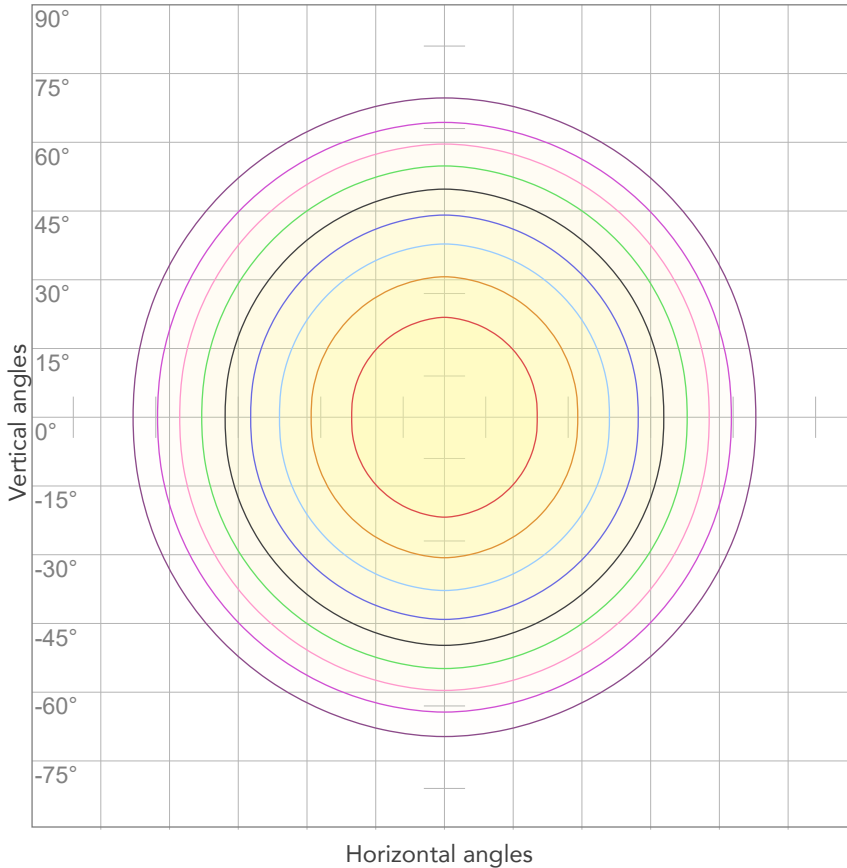


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,125A	22,6W	9lm/W

Power FC
0,81

ISO CANDELA DIAGRAM



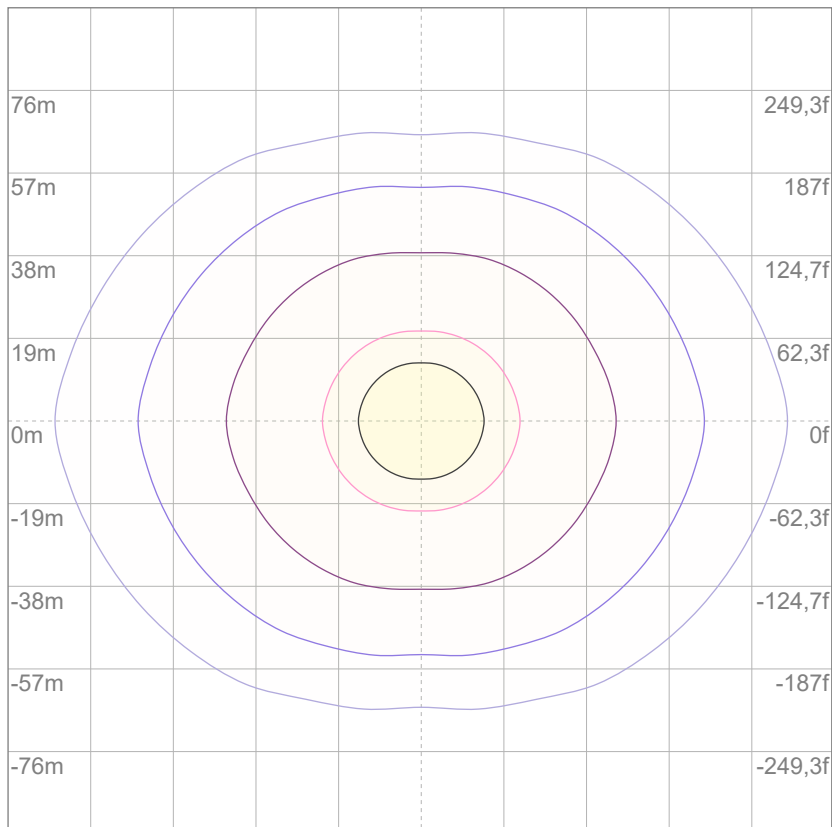
10%	8 cd
20%	15 cd
30%	23 cd
40%	30 cd
50%	38 cd
60%	45 cd
70%	53 cd
80%	60 cd

Conditions:

Number of c-planes: 4

Candela at center: 75 cd

ISO LUX DIAGRAM



3%	22,6m lx
5%	37,6m lx
10%	75,2m lx
30%	0,226 lx
50%	0,376 lx

Conditions:

Number of c-planes: 4

Lux at center: 0,752 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:

215 lm

Peak candela output:

90,0 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

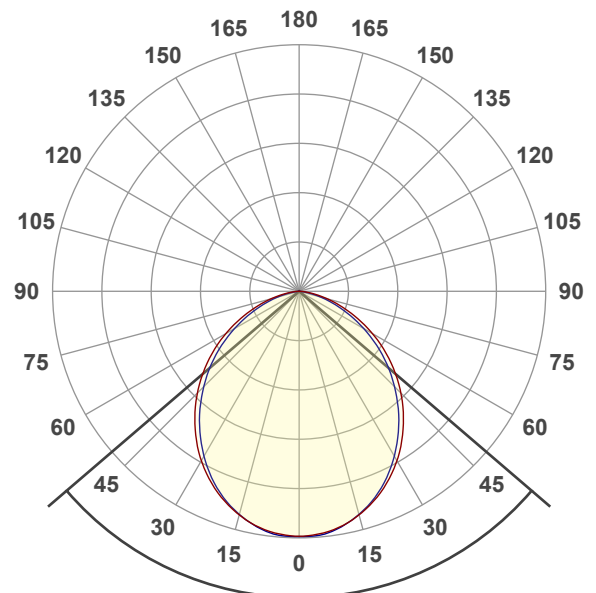
MEASURAMENT CONDITIONS:

Beam angle:
Filter MD

Target:
Blue

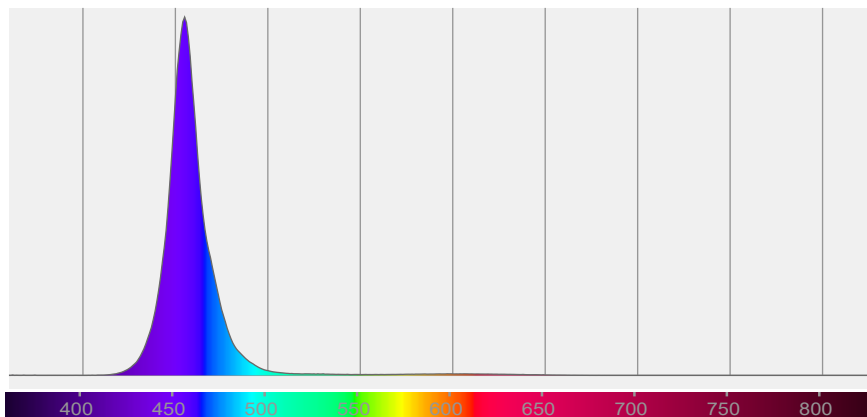
Operator:
Paolo Carvone

Date and time:
10/01/2022 13:24:57



Beam angle 50%: 98,8°
Field angle 10%: 150,7°
Cut off angle 2.5%: 166,3°

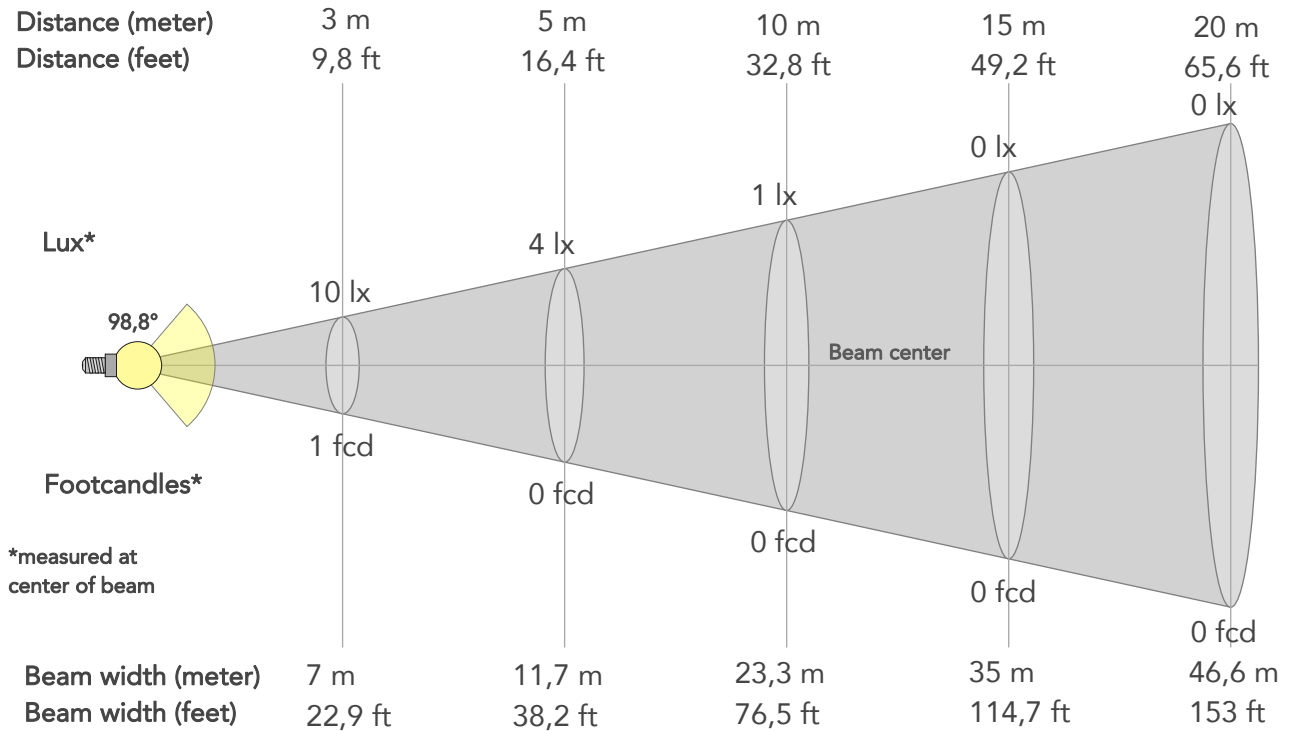
Spectra



BEAM DETAILS



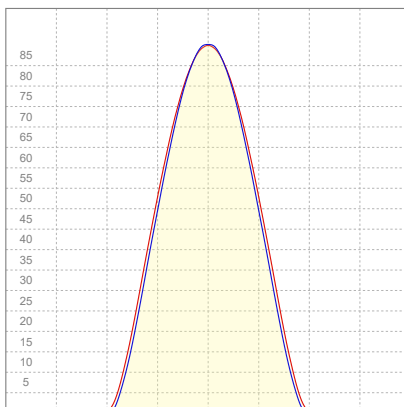
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
98,8°	150,7°	166,3°	83,7%	59,6%



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	90lx	22lx	10lx	6lx	4lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
Footcand.	8fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,3m	4,7m	7m	9,3m	11,7m	17,5m	23,3m	35m	46,6m	58,3m	70m	93,3m	116,6m
Beam wid.	7,7ft	15,4ft	22,9ft	30,5ft	38,2ft	57,4ft	76,5ft	114,7ft	153ft	191,2ft	229,5ft	306ft	382,4ft

LINEAR DISTRIBUTION DIAGRAM

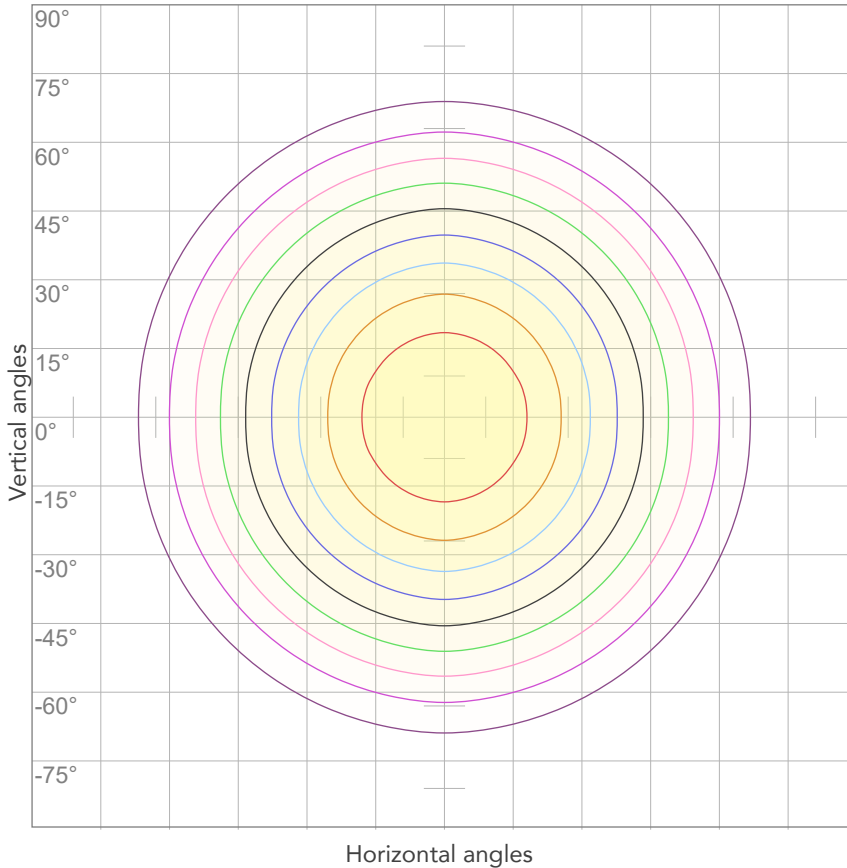


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,125A	22,8W	9lm/W

Power FC
0,81

ISO CANDELA DIAGRAM



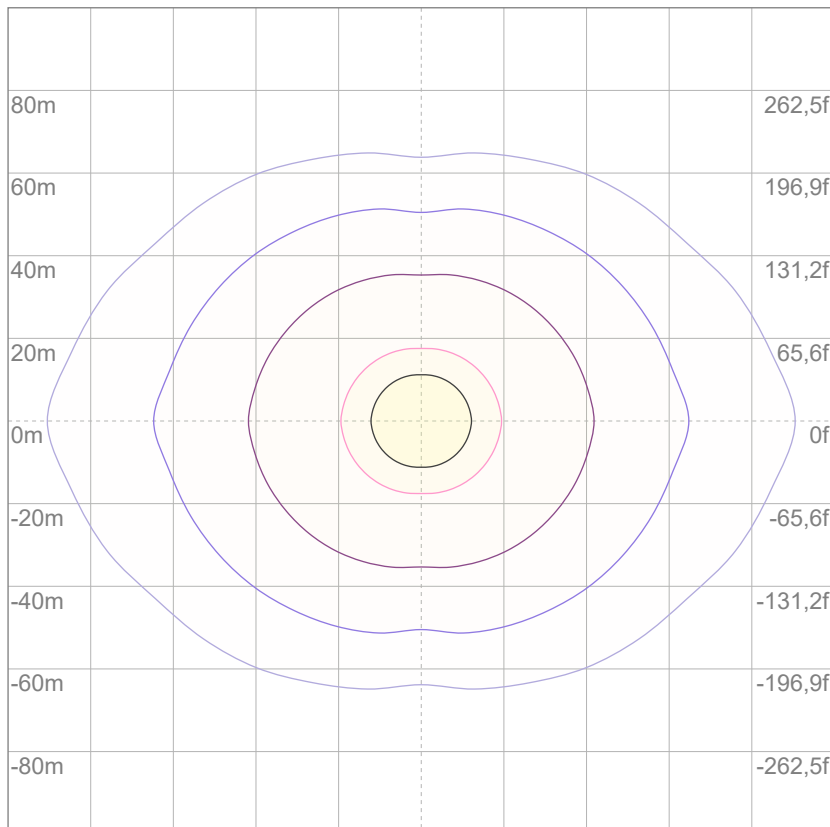
10%	9 cd
20%	18 cd
30%	27 cd
40%	36 cd
50%	45 cd
60%	54 cd
70%	63 cd
80%	72 cd

Conditions:

Number of c-planes: 4

Candela at center: 90 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	27,0m lx
5%	45,0m lx
10%	89,9m lx
30%	0,270 lx
50%	0,450 lx

Conditions:

Number of c-planes: 4

Lux at center: 0,899 lx

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

Total lumen output:

223 lm

Peak candela output:

94,6 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

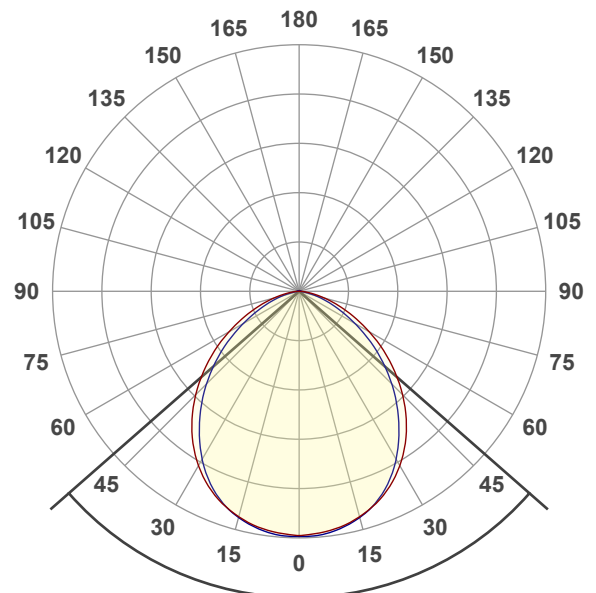
MEASURAMENT CONDITIONS:

Beam angle:
Filter LD

Target:
Blue

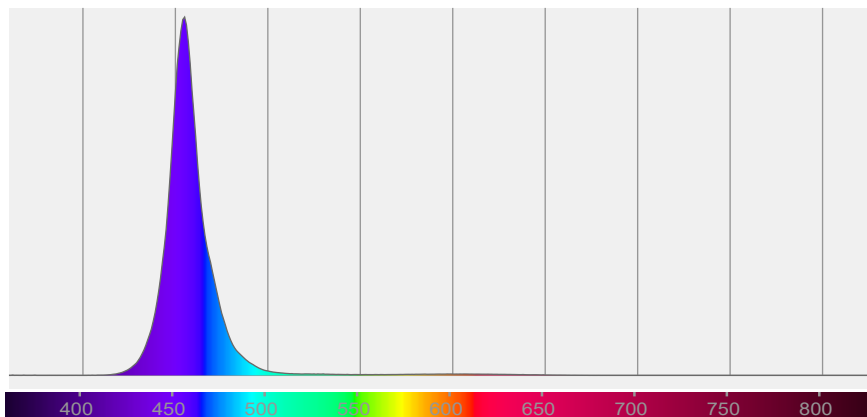
Operator:
Paolo Carvone

Date and time:
10/01/2022 14:12:43



Beam angle 50%: 97,5°
Field angle 10%: 147,6°
Cut off angle 2.5%: 165°

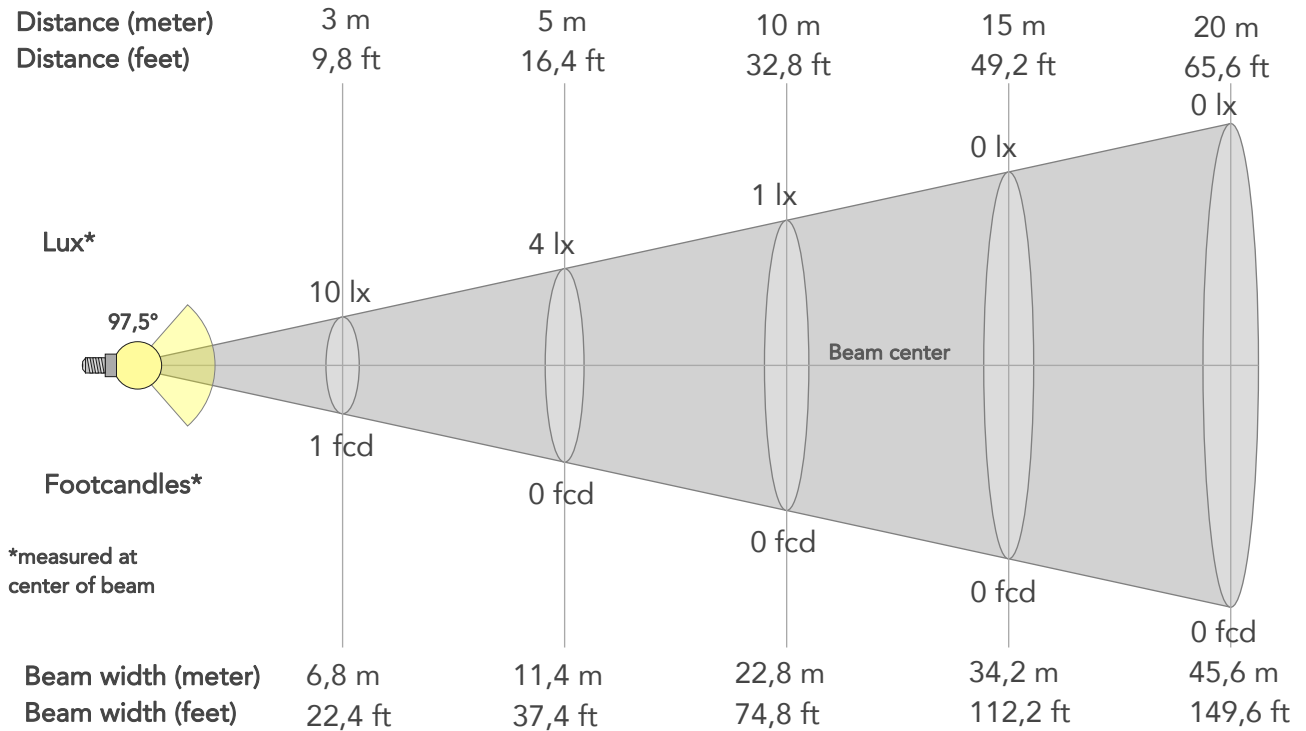
Spectra



BEAM DETAILS



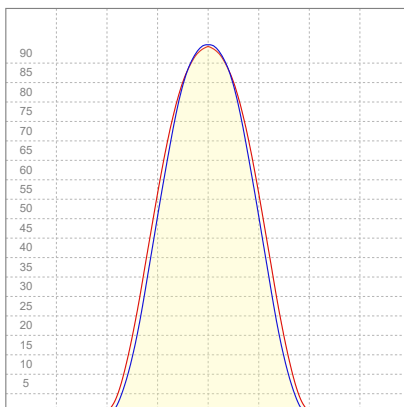
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
97,5°	147,6°	165°	84,9%	61,4%



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	94lx	24lx	10lx	6lx	4lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
Footcand.	9fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,3m	4,6m	6,8m	9,1m	11,4m	17,1m	22,8m	34,2m	45,6m	57m	68,4m	91,2m	114m
Beam wid.	7,5ft	15,1ft	22,4ft	29,9ft	37,4ft	56,1ft	74,8ft	112,2ft	149,6ft	187ft	224,4ft	299,2ft	374ft

LINEAR DISTRIBUTION DIAGRAM

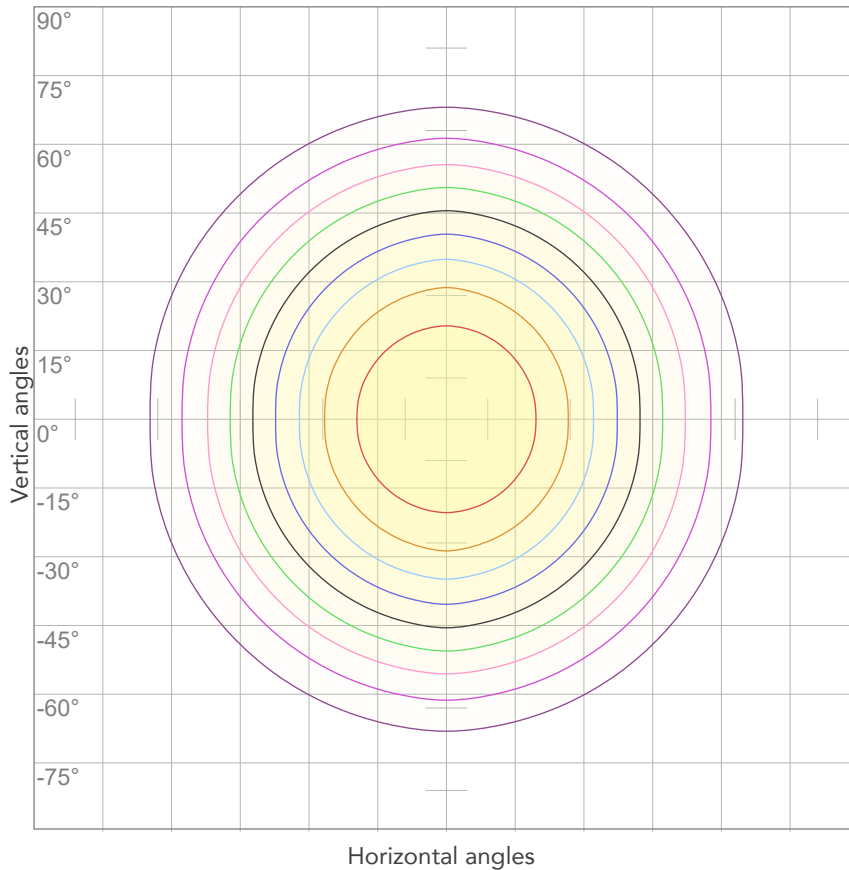


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,128A	23,3W	10lm/W

Power FC
0,81

ISO CANDELA DIAGRAM

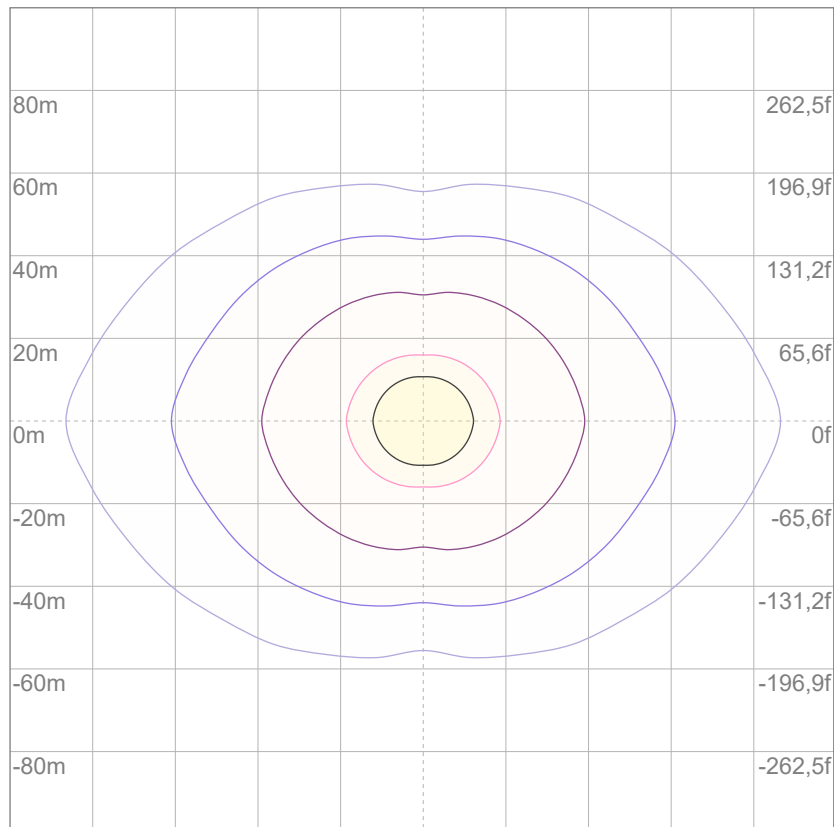


10%	9 cd
20%	19 cd
30%	28 cd
40%	38 cd
50%	47 cd
60%	57 cd
70%	66 cd
80%	75 cd

Conditions:

Number of c-planes: 4
Candela at center: 94 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	28,3m lx
5%	47,2m lx
10%	94,4m lx
30%	0,283 lx
50%	0,472 lx

Conditions:

Number of c-planes: 4
Lux at center: 0,944 lx

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

Total lumen output:

196 lm

Peak candela output:

134 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

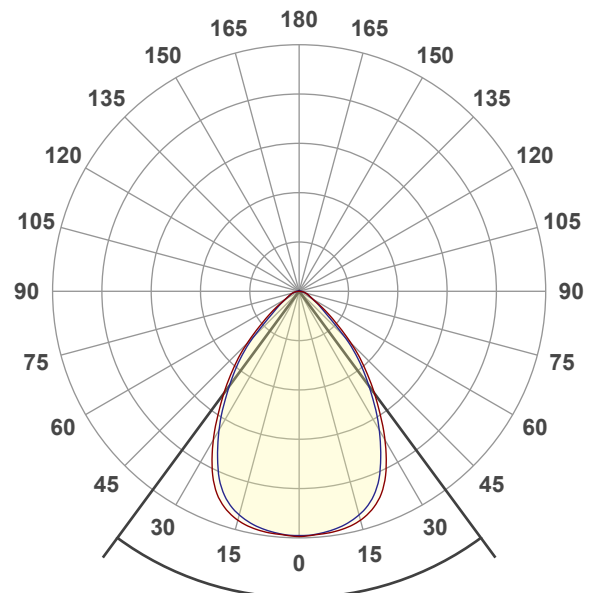
MEASUREMENT CONDITIONS:

Beam angle:
Filter INT

Target:
Blue

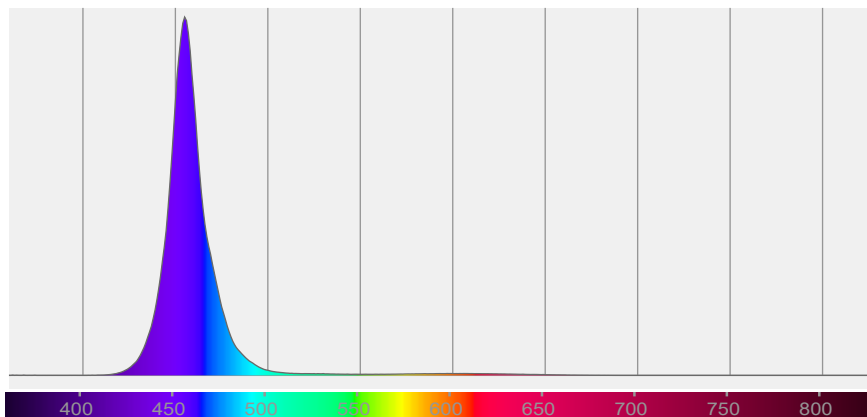
Operator:
Paolo Carvone

Date and time:
10/01/2022 15:11:29



Beam angle 50%: 72,8°
Field angle 10%: 110,9°
Cut off angle 2.5%: 150,3°

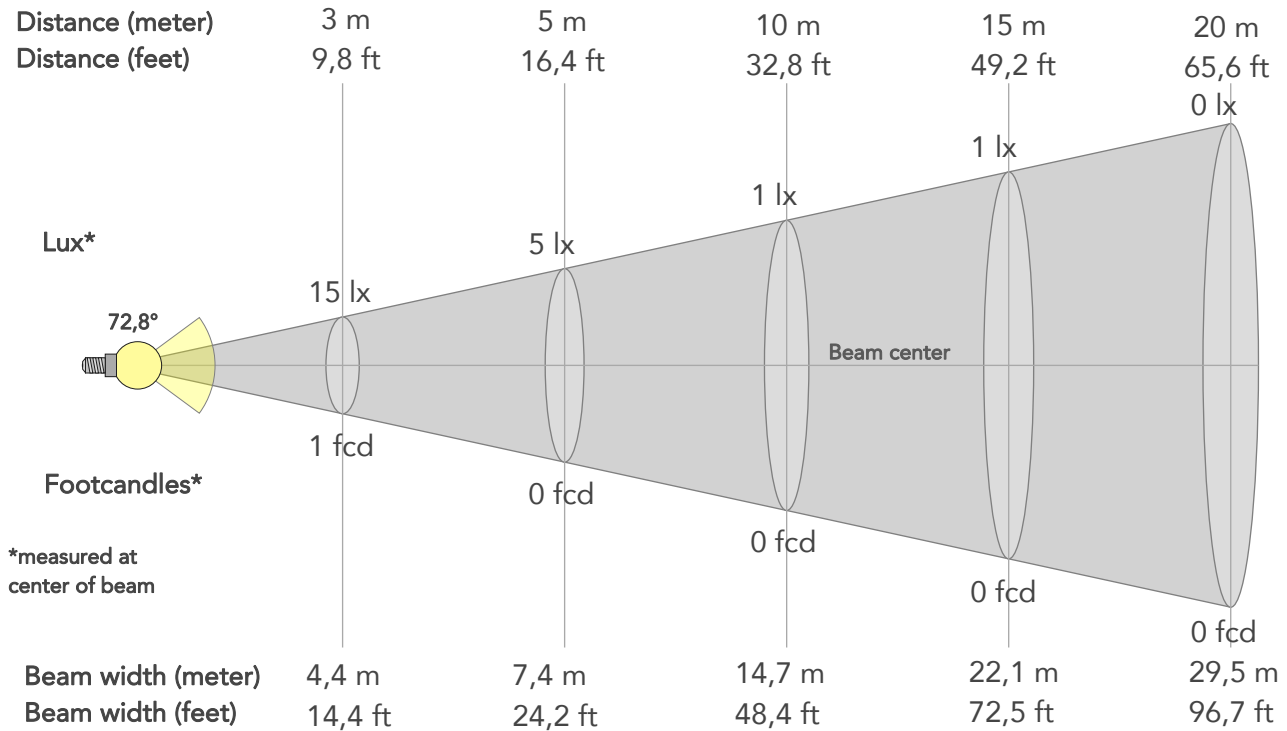
Spectra



BEAM DETAILS



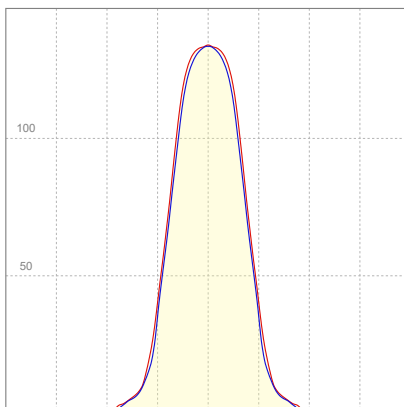
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
72,8°	110,9°	150,3°	94,4%	81,8%



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	134lx	33lx	15lx	8lx	5lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	12fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	2,9m	4,4m	5,9m	7,4m	11,1m	14,7m	22,1m	29,5m	36,9m	44,2m	59m	73,7m
Beam wid.	4,9ft	9,7ft	14,4ft	19,3ft	24,2ft	36,3ft	48,4ft	72,5ft	96,7ft	120,9ft	145,1ft	193,4ft	241,8ft

LINEAR DISTRIBUTION DIAGRAM

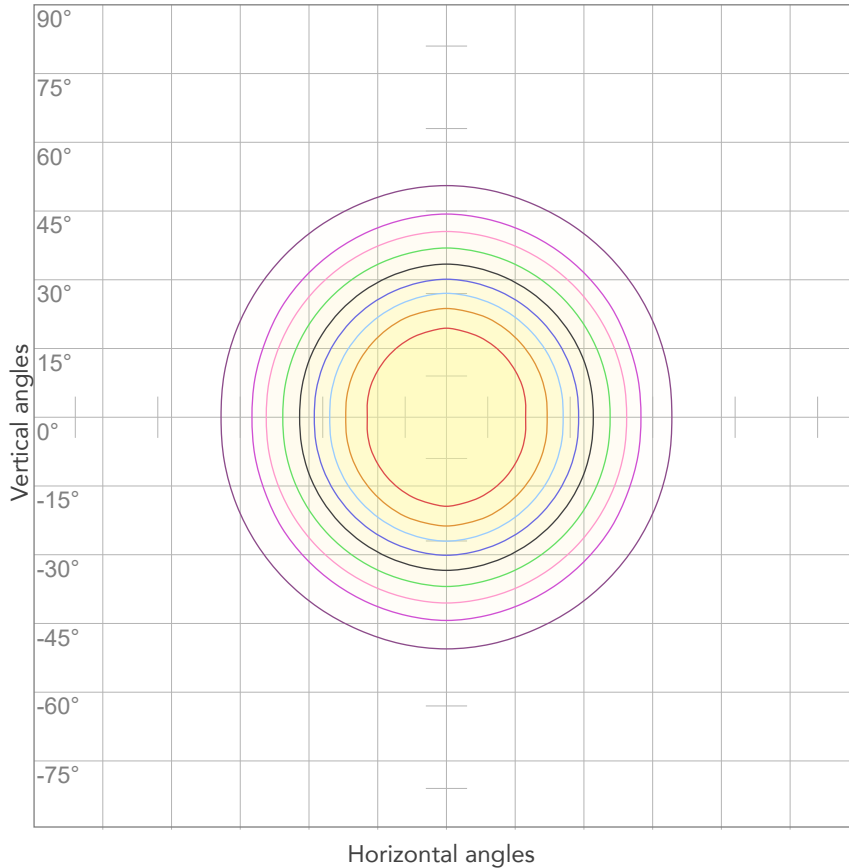


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,127A	22,7W	9lm/W

Power FC
0,8

ISO CANDELA DIAGRAM



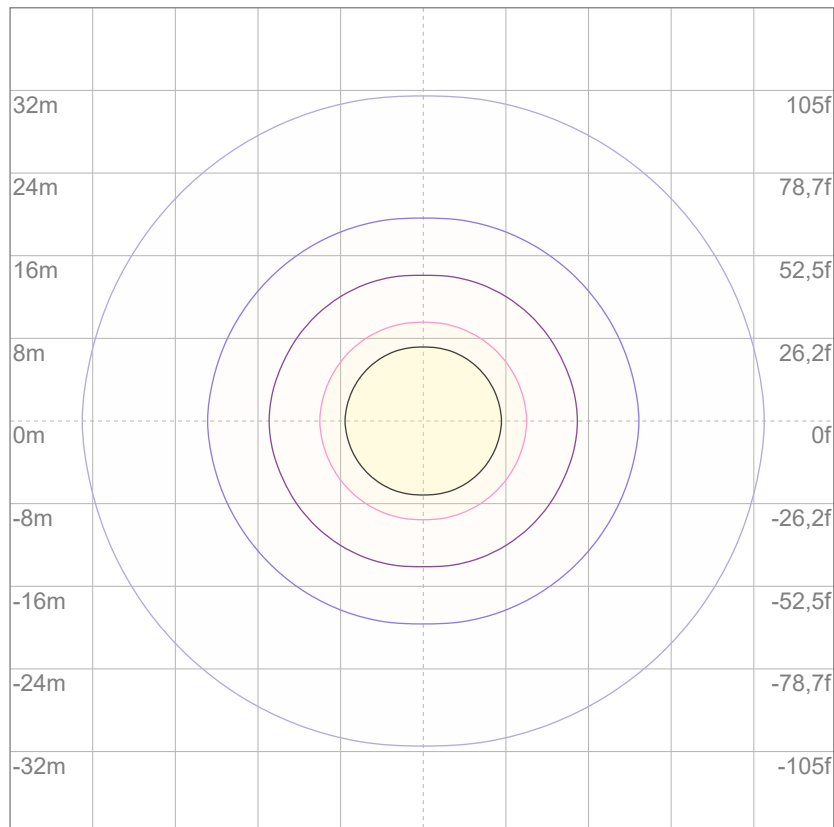
10%	13 cd
20%	27 cd
30%	40 cd
40%	53 cd
50%	67 cd
60%	80 cd
70%	94 cd
80%	107 cd

Conditions:

Number of c-planes: 4

Candela at center: 134 cd

ISO LUX DIAGRAM



3%	40,1m lx
5%	66,8m lx
10%	0,134 lx
30%	0,401 lx
50%	0,668 lx

Conditions:

Number of c-planes: 4

Lux at center: 1,34 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:

5689 lm

Peak candela output:

2074 cd



PRODUCT NAME:

ECLPANELTWCMINI2X1

MEASURAMENT CONDITIONS:

Beam angle:

Filter HD

Target:

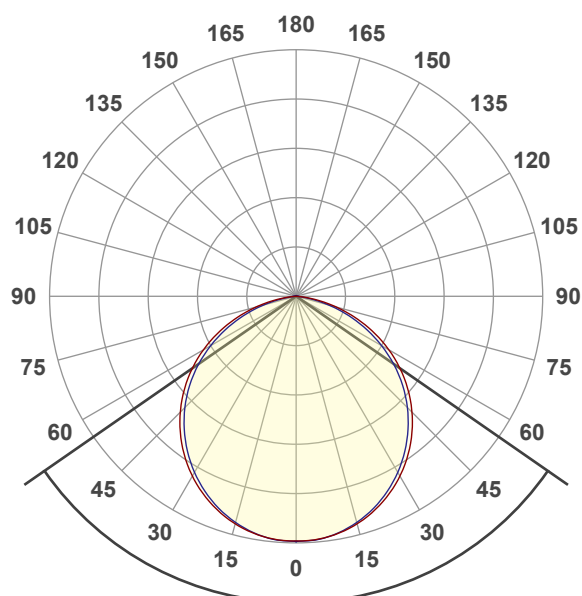
White

Operator:

Paolo Carvone

Date and time:

10/01/2022 16:00:28

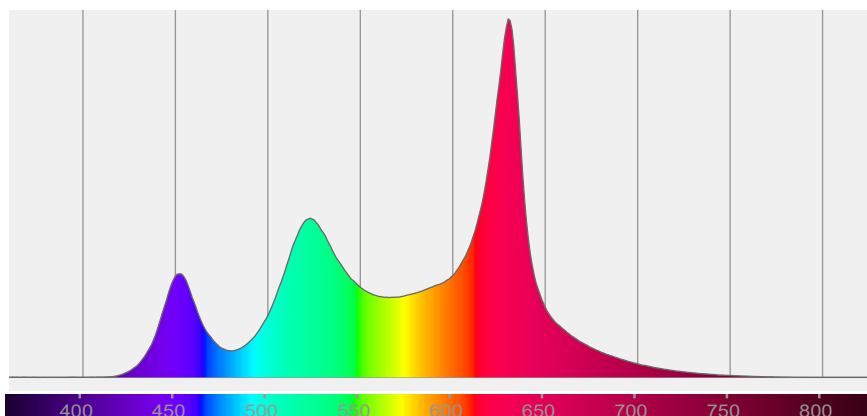


Beam angle 50%: 110,5°

Field angle 10%: 156,4°

Cut off angle 2.5%: 167,2°

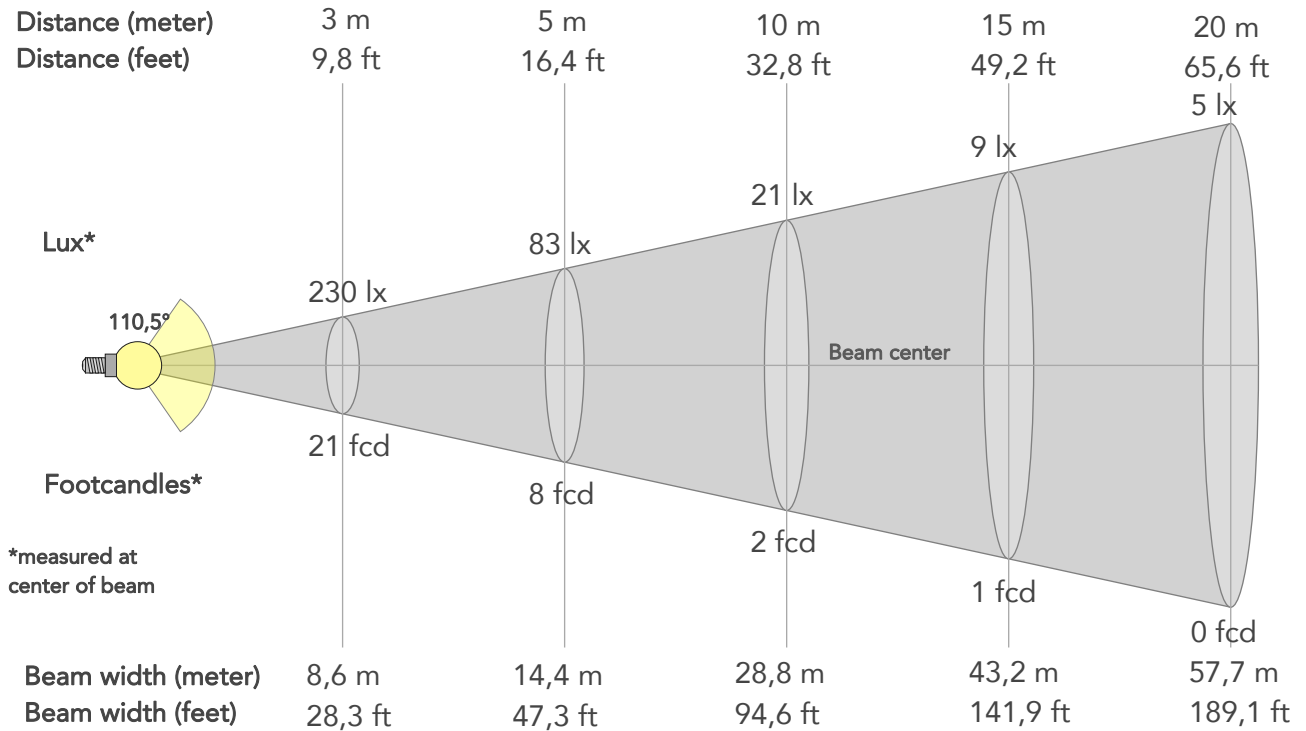
Spectra



BEAM DETAILS



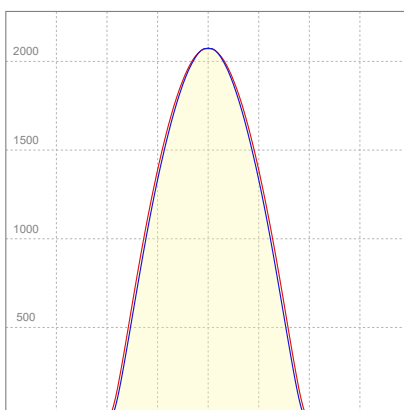
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
110,5°	156,4°	167,2°	80,8%	55,3%



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	2072lx	518lx	230lx	129lx	83lx	37lx	21lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	192fcd	48fcd	21fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,9m	5,8m	8,6m	11,5m	14,4m	21,6m	28,8m	43,2m	57,7m	72,1m	86,5m	115,3m	144,2m
Beam wid.	9,5ft	19ft	28,3ft	37,8ft	47,3ft	70,9ft	94,6ft	141,9ft	189,1ft	236,4ft	283,7ft	378,3ft	472,8ft

LINEAR DISTRIBUTION DIAGRAM

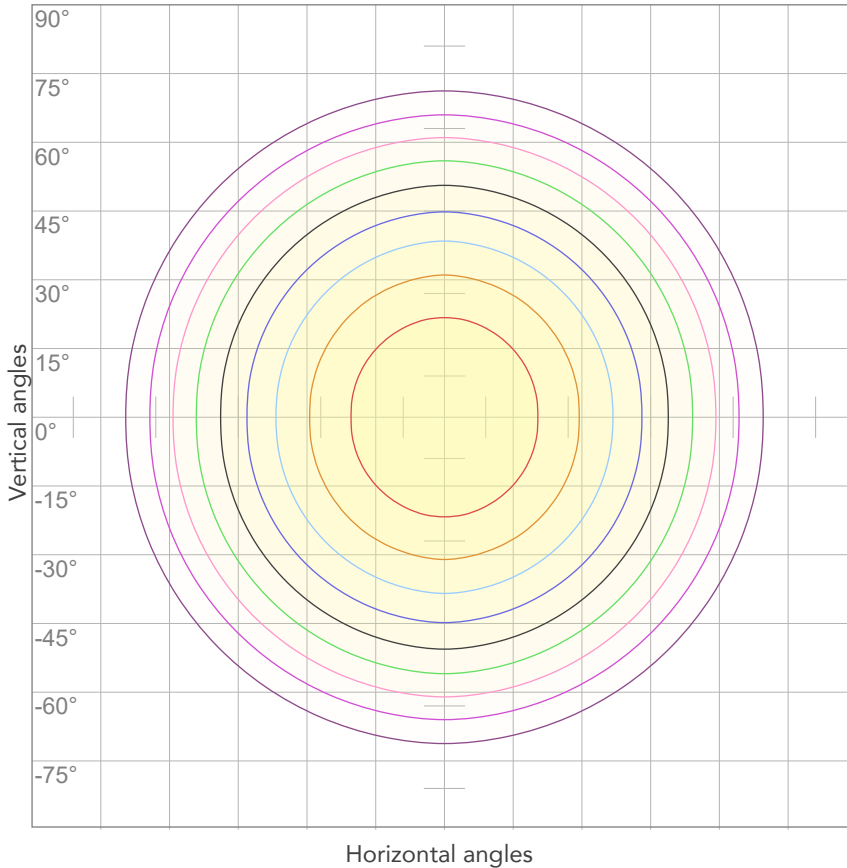


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,534A	111,1W	51lm/W

Power FC
0,94

ISO CANDELA DIAGRAM



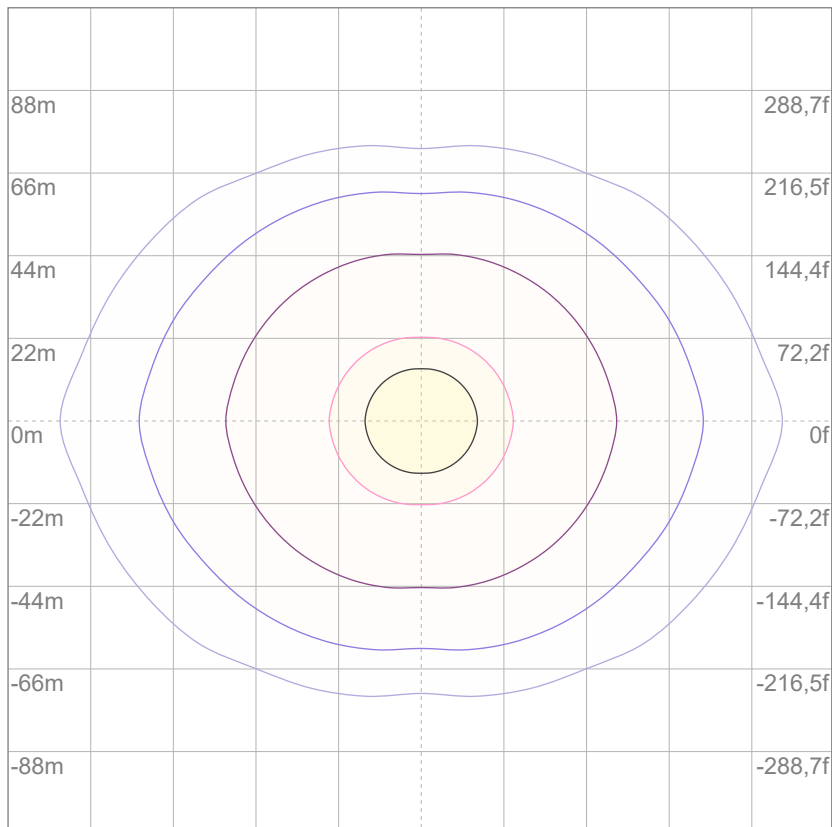
10%	207 cd
20%	414 cd
30%	622 cd
40%	829 cd
50%	1036 cd
60%	1243 cd
70%	1450 cd
80%	1658 cd

Conditions:

Number of c-planes: 4

Candela at center: 2072 cd

ISO LUX DIAGRAM



3%	0,622 lx
5%	1,04 lx
10%	2,07 lx
30%	6,22 lx
50%	10,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 20,7 lx

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

Total lumen output:

6813 lm

Peak candela output:

2768 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

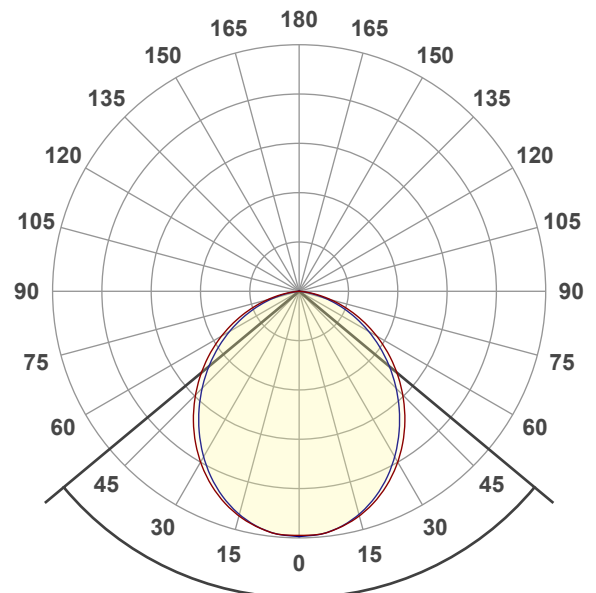
MEASUREMENT CONDITIONS:

Beam angle:
Filter MD

Target:
White

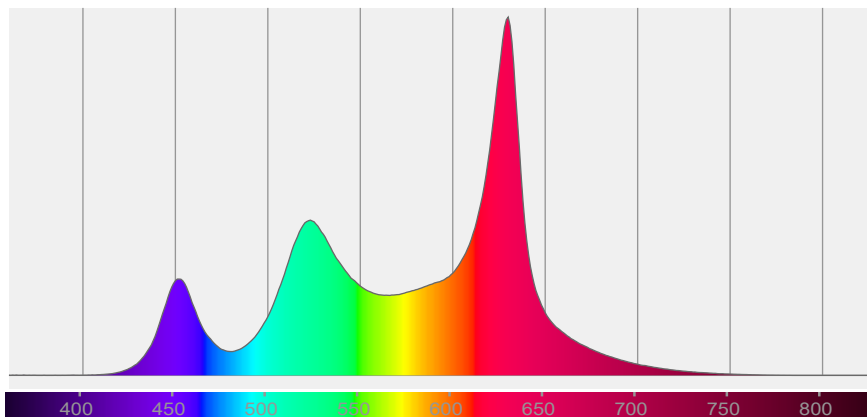
Operator:
Paolo Carvone

Date and time:
10/01/2022 13:27:20



Beam angle 50%: 100,5°
Field angle 10%: 153,3°
Cut off angle 2.5%: 166,1°

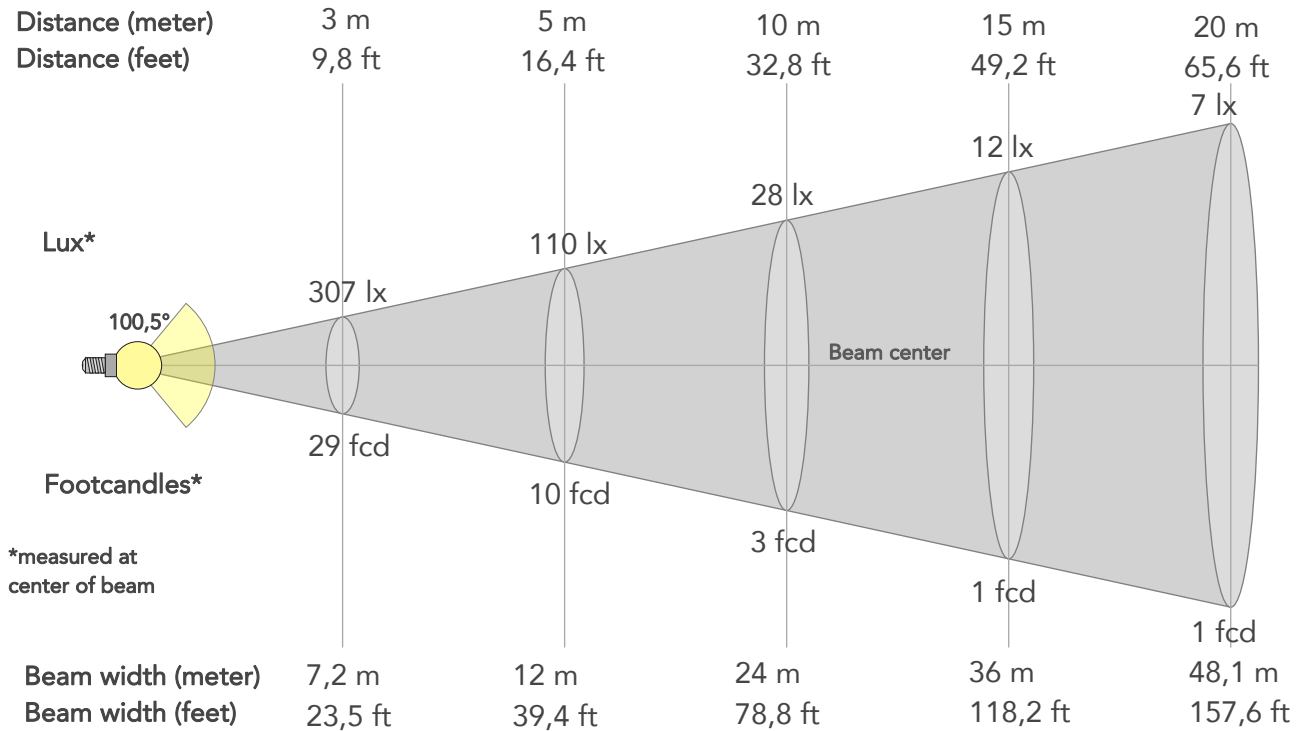
Spectra



BEAM DETAILS



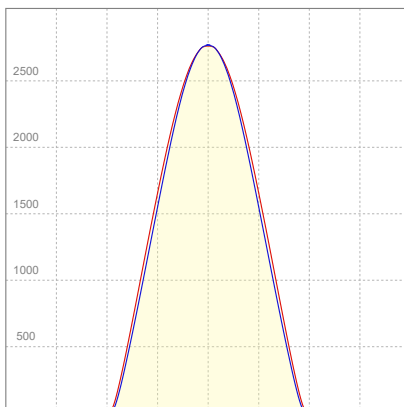
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
100,5°	153,3°	166,1°	82,5%	58,2%



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	2762lx	691lx	307lx	173lx	110lx	49lx	28lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	257fcd	64fcd	29fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,4m	4,8m	7,2m	9,6m	12m	18m	24m	36m	48,1m	60,1m	72,1m	96,1m	120,1m
Beam wid.	7,9ft	15,9ft	23,5ft	31,5ft	39,4ft	59,1ft	78,8ft	118,2ft	157,6ft	197ft	236,4ft	315,2ft	394ft

LINEAR DISTRIBUTION DIAGRAM

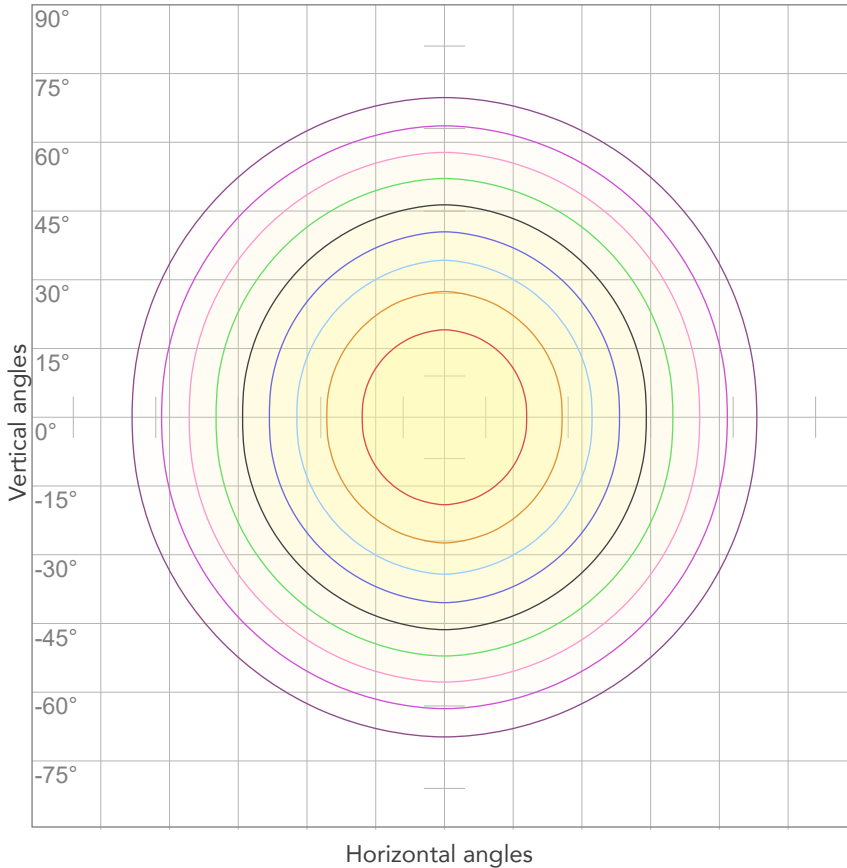


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,533A	112,1W	61lm/W

Power FC
0,93

ISO CANDELA DIAGRAM



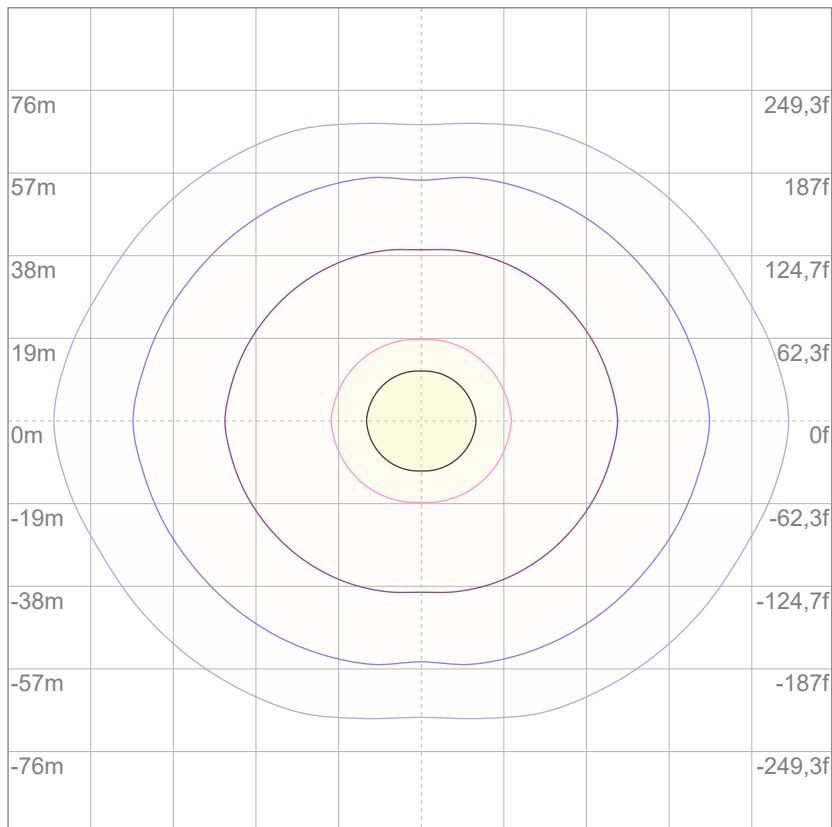
10%	276 cd
20%	552 cd
30%	829 cd
40%	1105 cd
50%	1381 cd
60%	1657 cd
70%	1933 cd
80%	2210 cd

Conditions:

Number of c-planes: 4

Candela at center: 2762 cd

ISO LUX DIAGRAM



3%	0,829 lx
5%	1,38 lx
10%	2,76 lx
30%	8,29 lx
50%	13,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 27,6 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:

6971 lm

Peak candela output:

2887 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

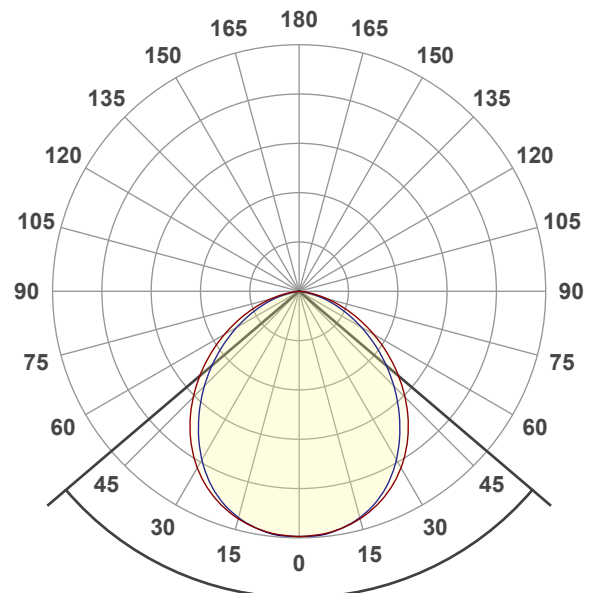
MEASURAMENT CONDITIONS:

Beam angle:
Filter LD

Target:
White

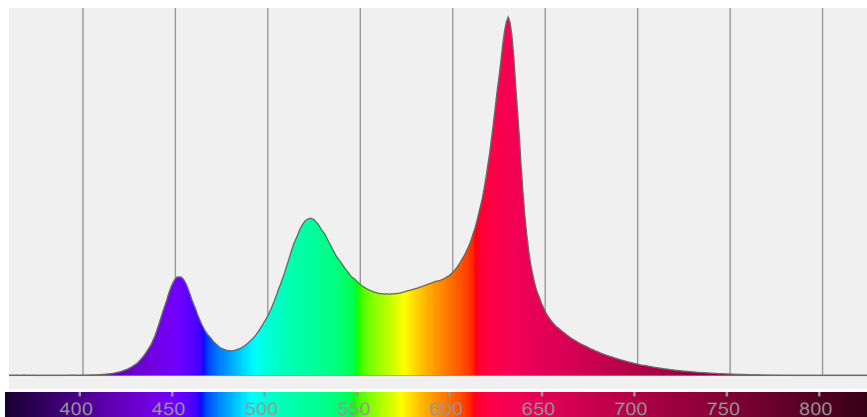
Operator:
Paolo Carvone

Date and time:
10/01/2022 13:35:13



Beam angle 50%: 99,2°
Field angle 10%: 150,3°
Cut off angle 2.5%: 164,3°

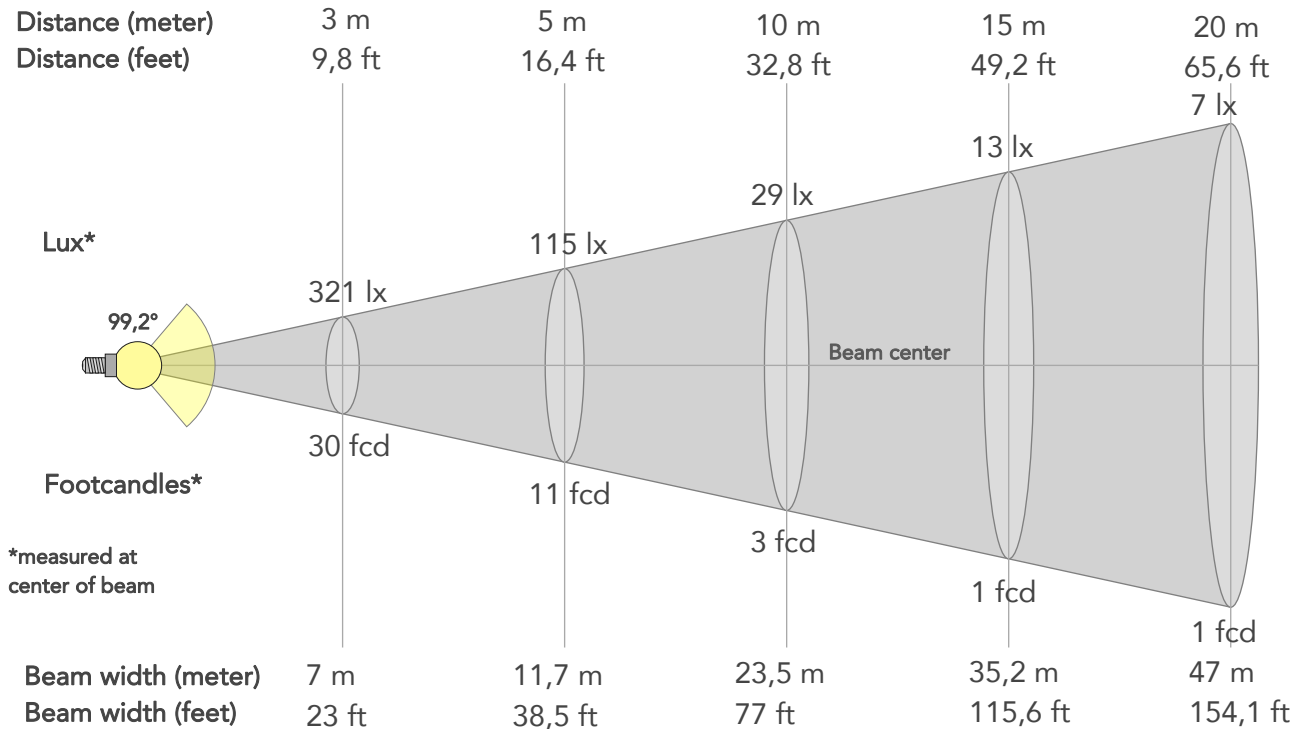
Spectra



BEAM DETAILS



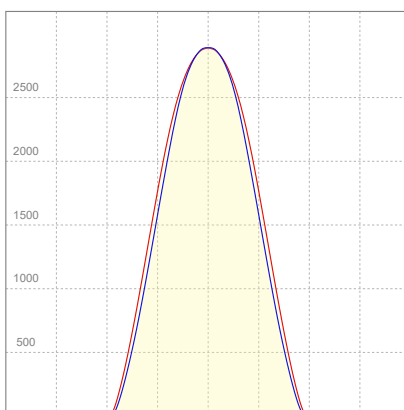
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
99,2°	150,3°	164,3°	84,4%	60,4%



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	2887lx	722lx	321lx	180lx	115lx	51lx	29lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	268fcd	67fcd	30fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,3m	4,7m	7m	9,4m	11,7m	17,6m	23,5m	35,2m	47m	58,7m	70,5m	93,9m	117,4m
Beam wid.	7,8ft	15,5ft	23ft	30,8ft	38,5ft	57,8ft	77ft	115,6ft	154,1ft	192,6ft	231,1ft	308,1ft	385,2ft

LINEAR DISTRIBUTION DIAGRAM

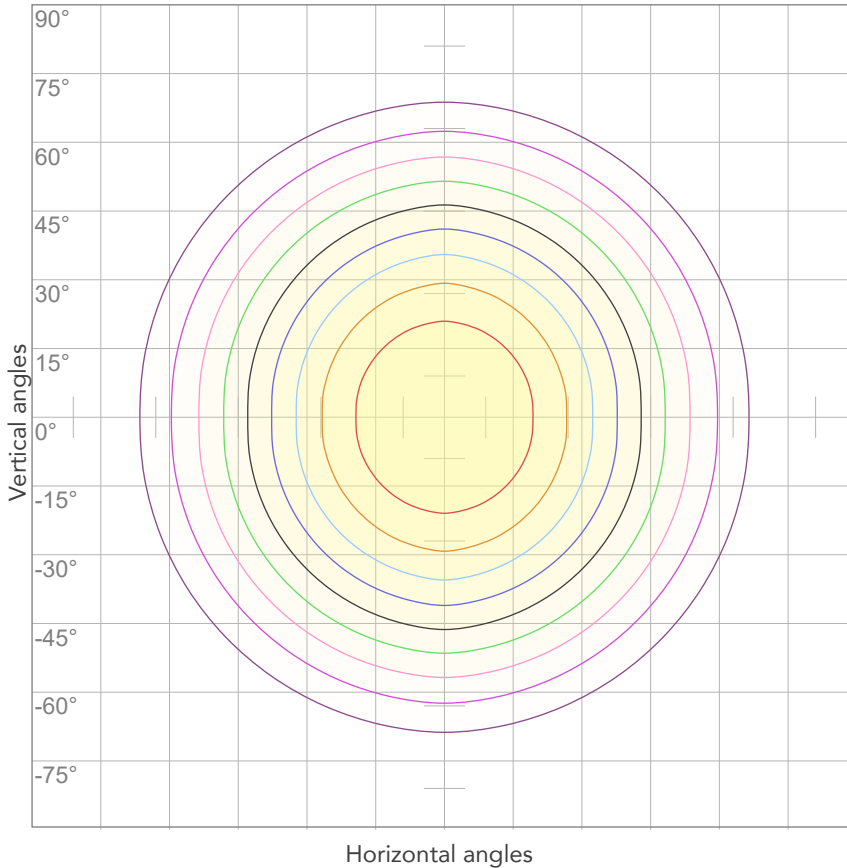


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,533A	111,6W	62lm/W

Power FC
0,93

ISO CANDELA DIAGRAM



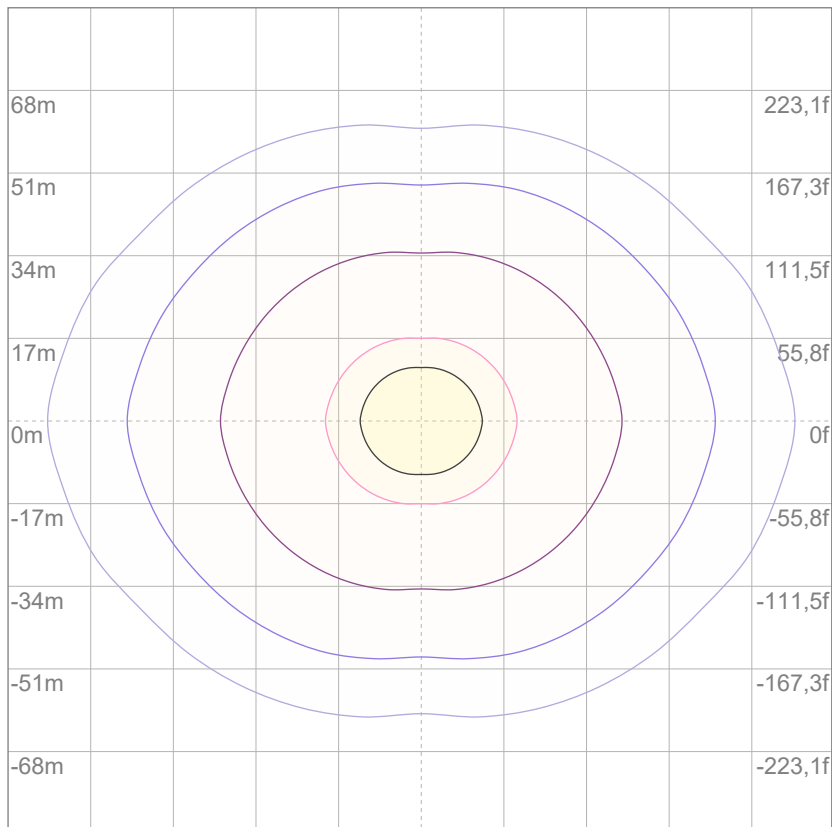
10%	289 cd
20%	577 cd
30%	866 cd
40%	1155 cd
50%	1443 cd
60%	1732 cd
70%	2021 cd
80%	2309 cd

Conditions:

Number of c-planes: 4

Candela at center: 2887 cd

ISO LUX DIAGRAM



3%	0,866 lx
5%	1,44 lx
10%	2,89 lx
30%	8,66 lx
50%	14,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 28,9 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:

5929 lm

Peak candela output:

3853 cd



PRODUCT NAME:
ECLPANELTWCMINI2X1

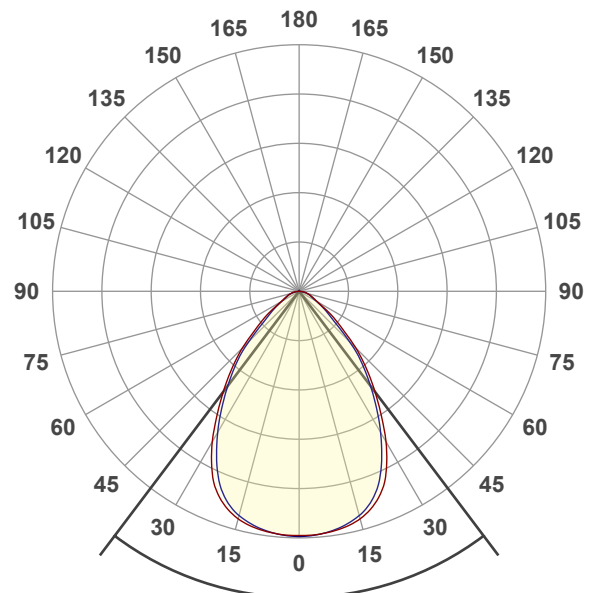
MEASURAMENT CONDITIONS:

Beam angle:
Filter INT

Target:
White

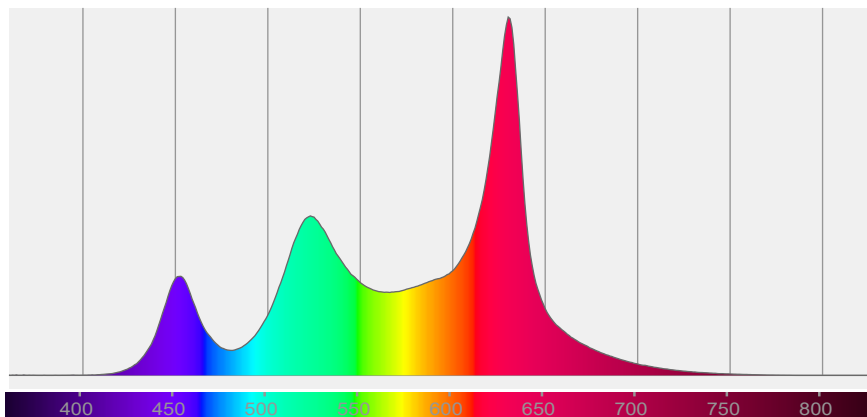
Operator:
Paolo Carvone

Date and time:
10/01/2022 15:13:54



Beam angle 50%: 74,1°
Field angle 10%: 116,1°
Cut off angle 2.5%: 157,2°

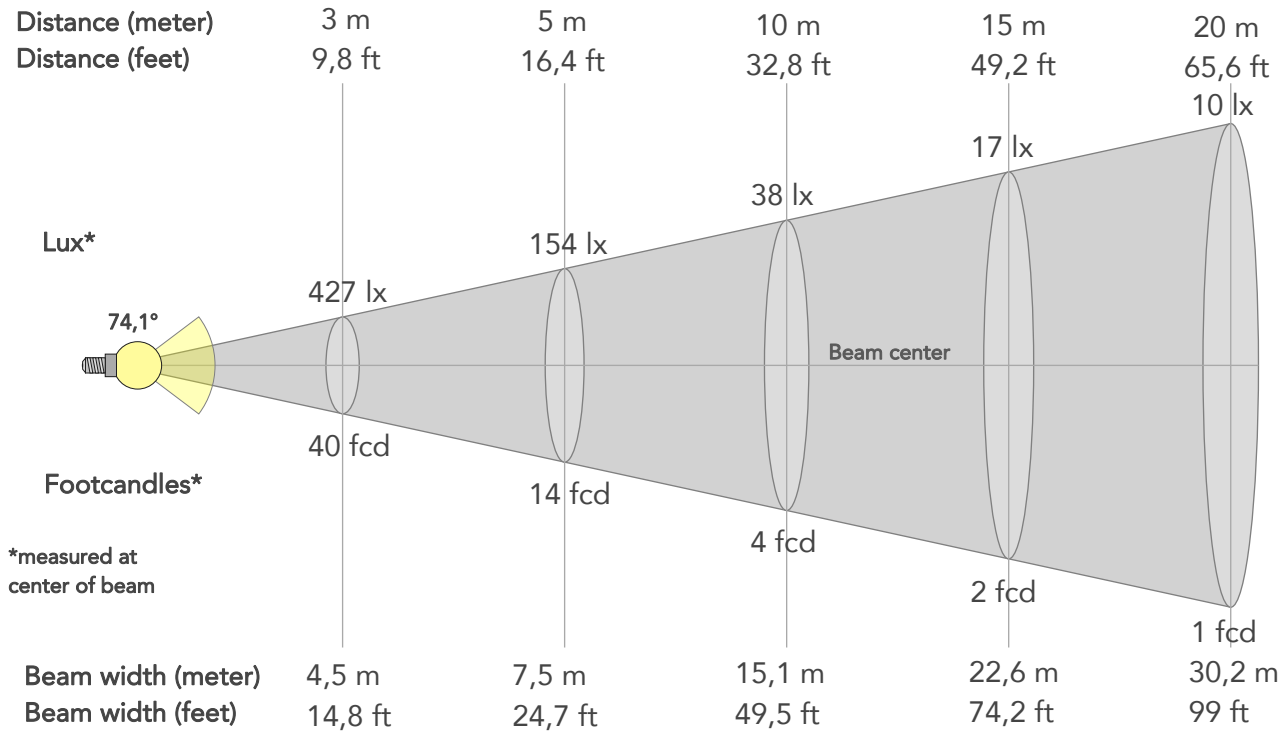
Spectra



BEAM DETAILS



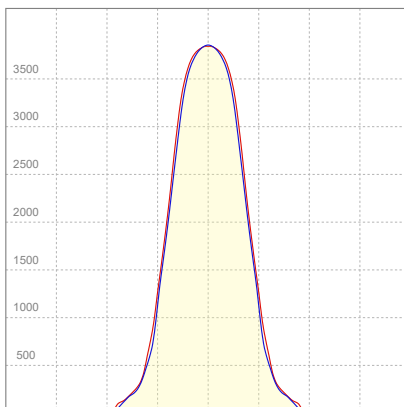
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,1°	116,1°	157,2°	93,2%	78,9%



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	3846lx	962lx	427lx	240lx	154lx	68lx	38lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	357fcd	89fcd	40fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,5m	6m	7,5m	11,3m	15,1m	22,6m	30,2m	37,7m	45,3m	60,4m	75,4m
Beam wid.	5ft	10ft	14,8ft	19,8ft	24,7ft	37,1ft	49,5ft	74,2ft	99ft	123,7ft	148,5ft	198ft	247,5ft

LINEAR DISTRIBUTION DIAGRAM

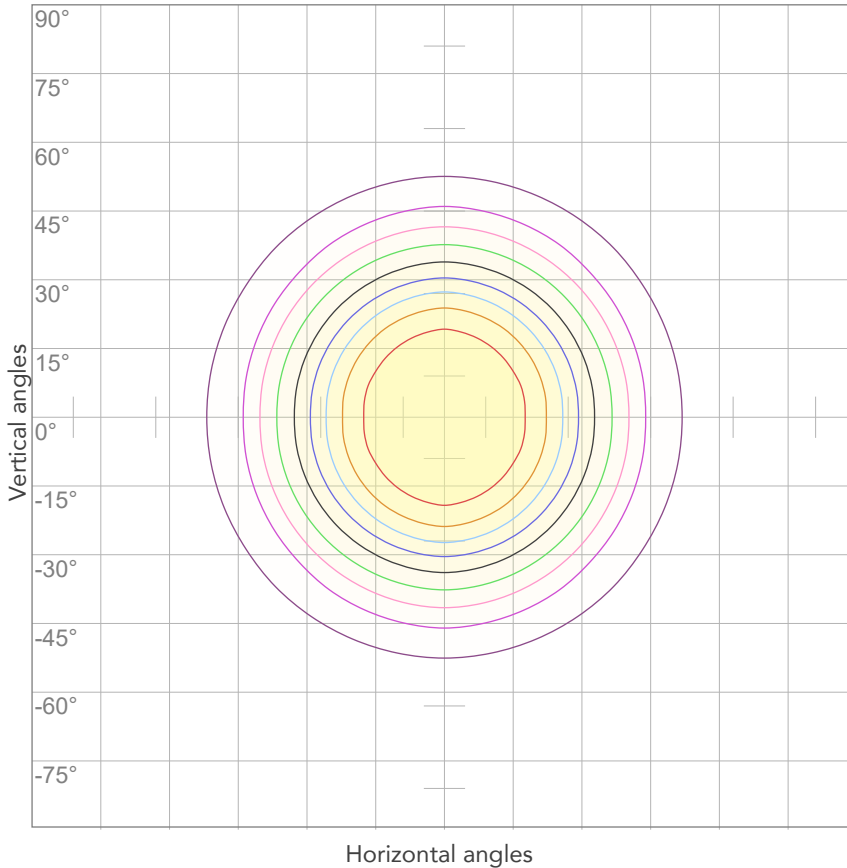


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,529A	110,9W	53lm/W

Power FC
0,94

ISO CANDELA DIAGRAM



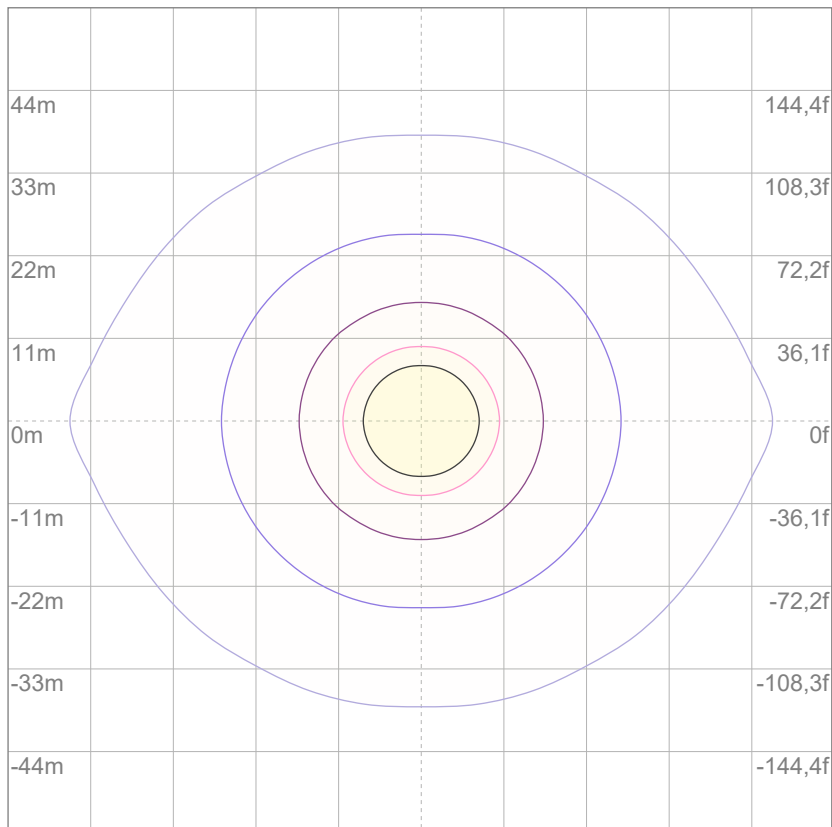
10%	385 cd
20%	769 cd
30%	1154 cd
40%	1538 cd
50%	1923 cd
60%	2308 cd
70%	2692 cd
80%	3077 cd

Conditions:

Number of c-planes: 4

Candela at center: 3846 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,15 lx
5%	1,92 lx
10%	3,85 lx
30%	11,5 lx
50%	19,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 38,5 lx

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



Total lumen output:

6074 lm

Peak candela output:

2229 cd

Light quality:

CRI: 85,6

Color temperature:

2781 K

PRODUCT NAME:

ECLPANELTWCMINI2X1

MEASUREMENT CONDITIONS:

Beam angle:

Filter HD

Target:

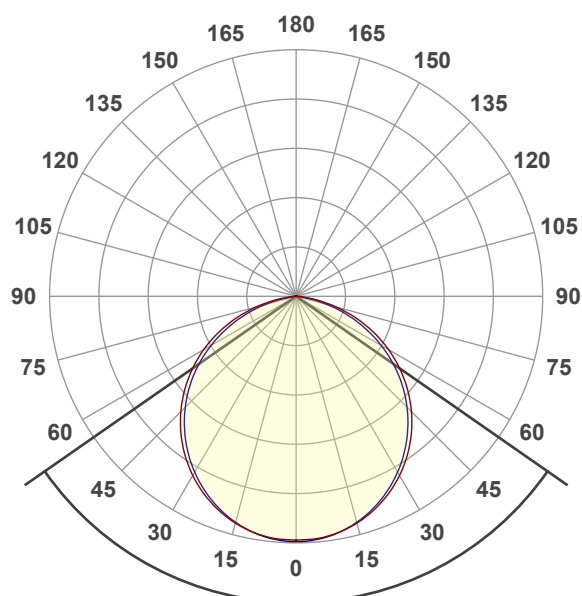
2800K HQ

Operator:

Paolo Carvone

Date and time:

10/01/2022 15:40:13

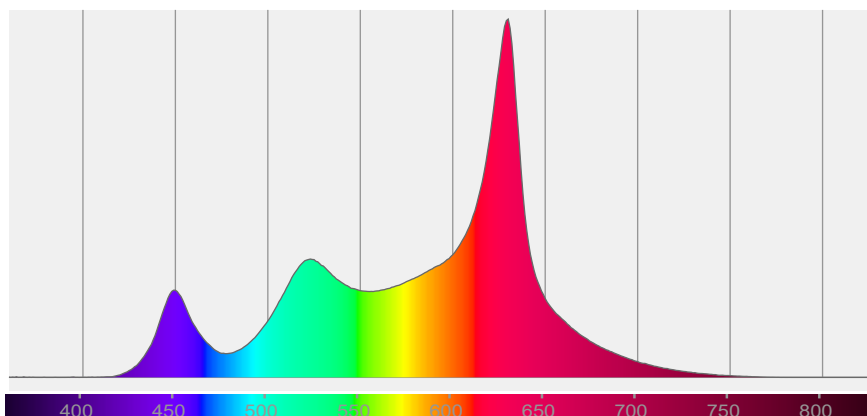


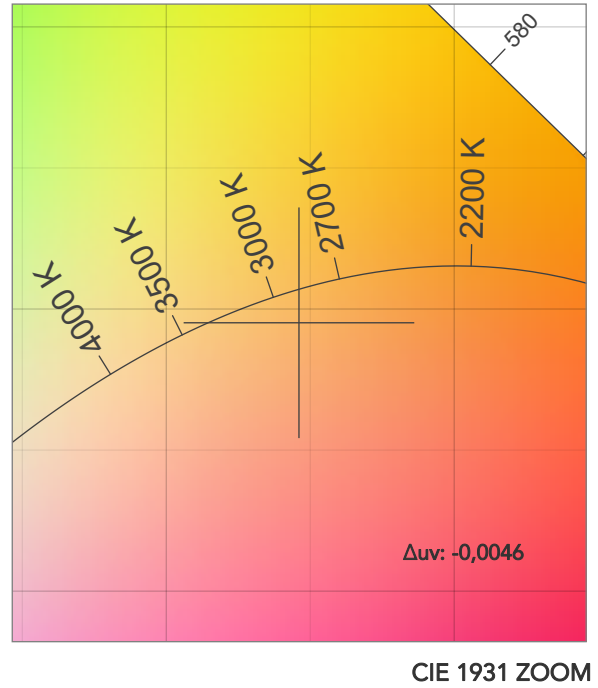
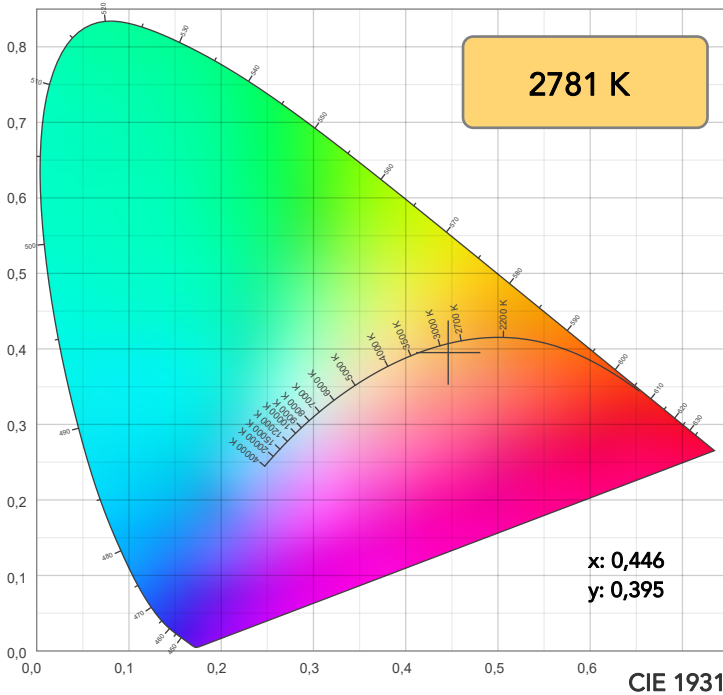
Beam angle 50%: 110,3°

Field angle 10%: 156,3°

Cut off angle 2.5%: 167,1°

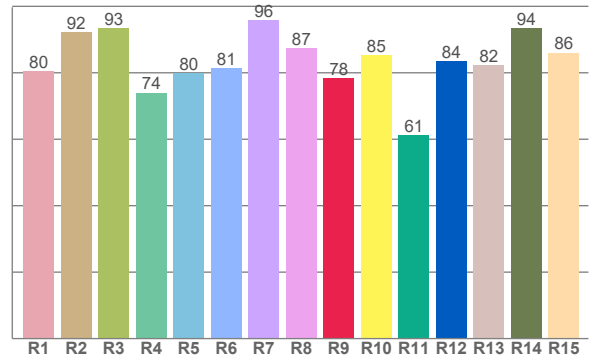
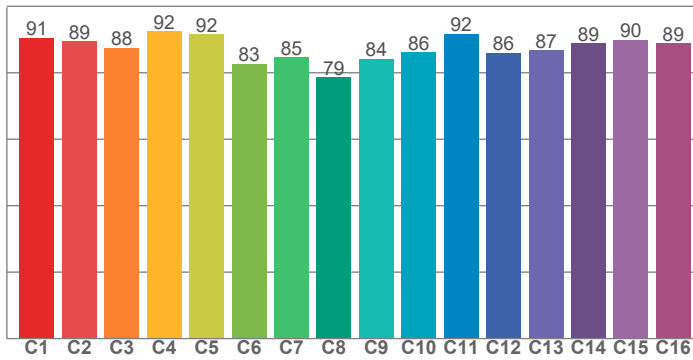
Spectra





TM30: 88,2

CRI: 85,6 (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
80,4	92,2	93,5	74,0	79,9	81,4	95,9	87,4	78,4	85,3	61,3	83,6	82,3	93,5	86,0

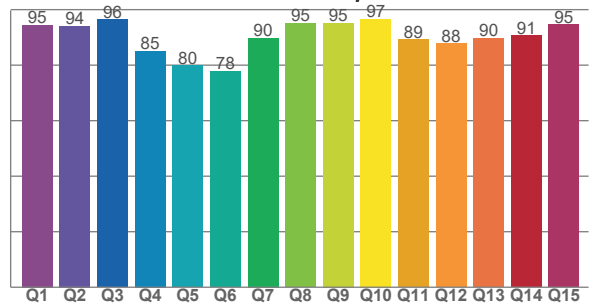
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,6	89,4	87,6	92,5	91,6	82,6	84,7	78,7	84,2	86,2	91,7	86,1	86,8	88,9	89,9	88,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,5	94,0	96,4	85,2	79,9	77,8	89,7	95,1	95,2	96,7	89,2	87,8	89,7	90,6	94,6

CQS: 88,6



COLOR PARAMETERS

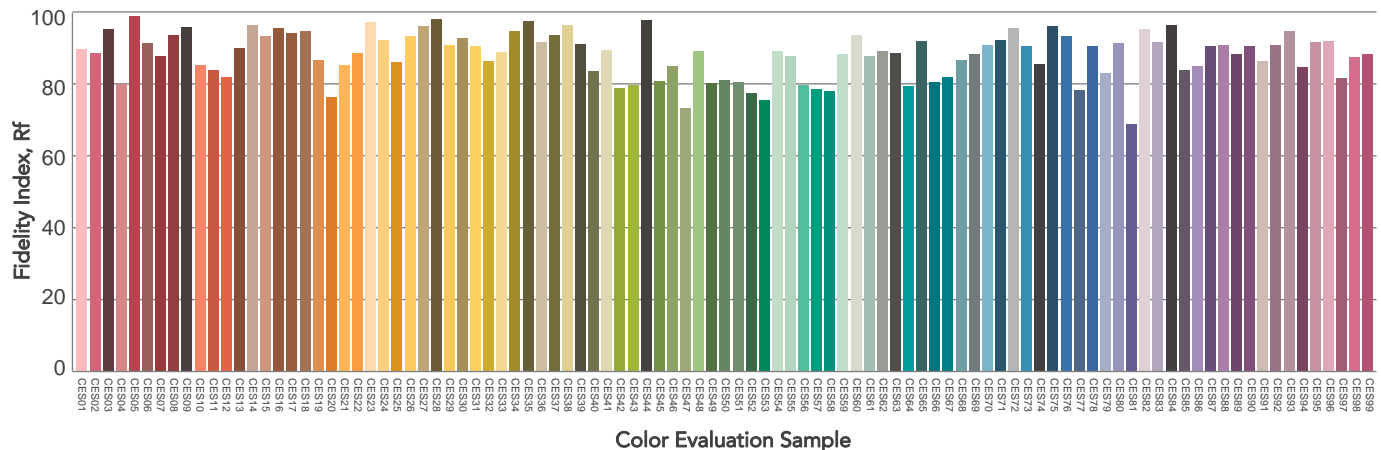
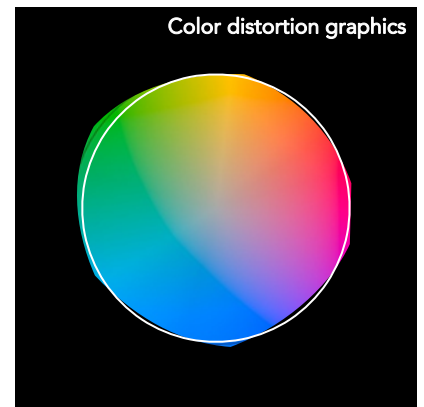
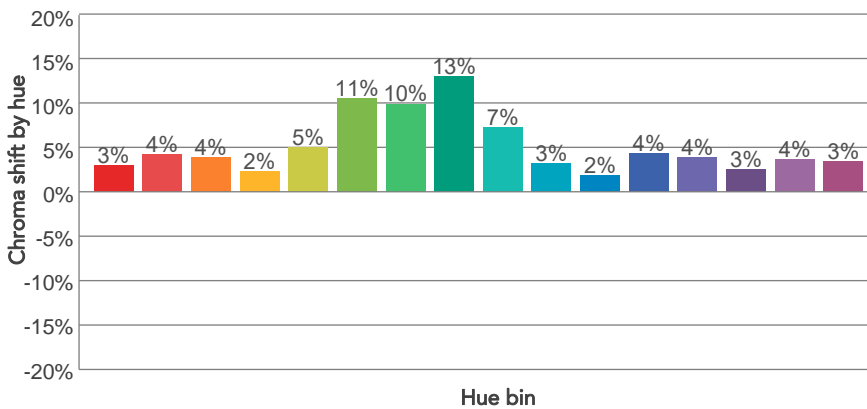
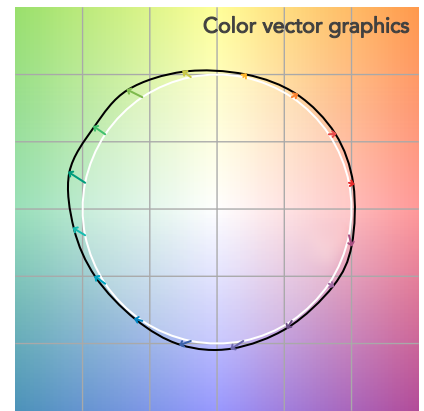
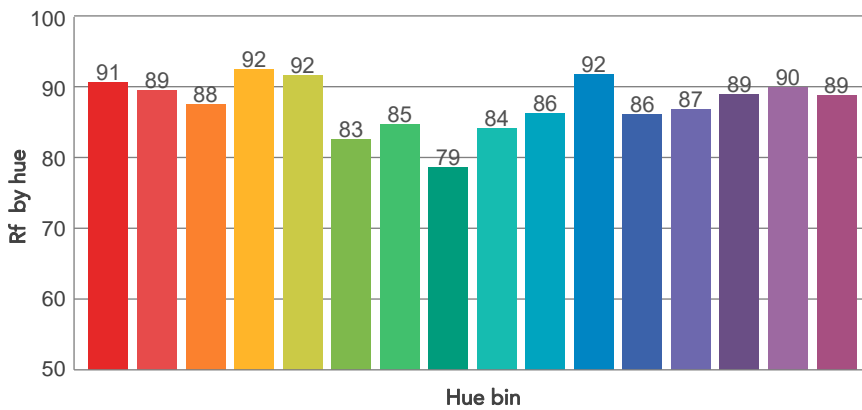
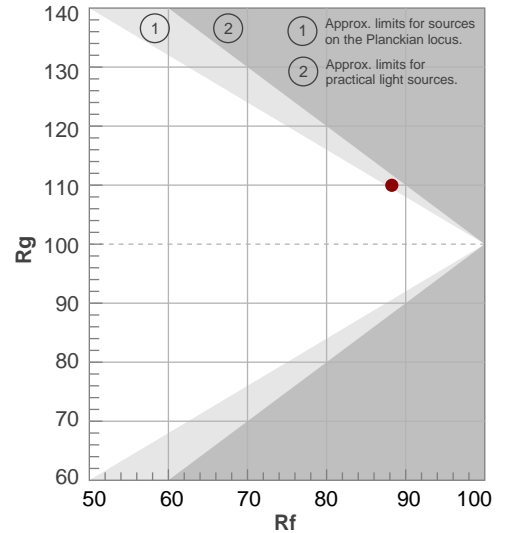
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2781 K	85,6	78,4	88,2	110,0	88,6	70	0,446	0,395	-0,0046

TM30 DETAILS

Rf 88,2
Fidelity index Rf

Rg 110,0
Gammut index

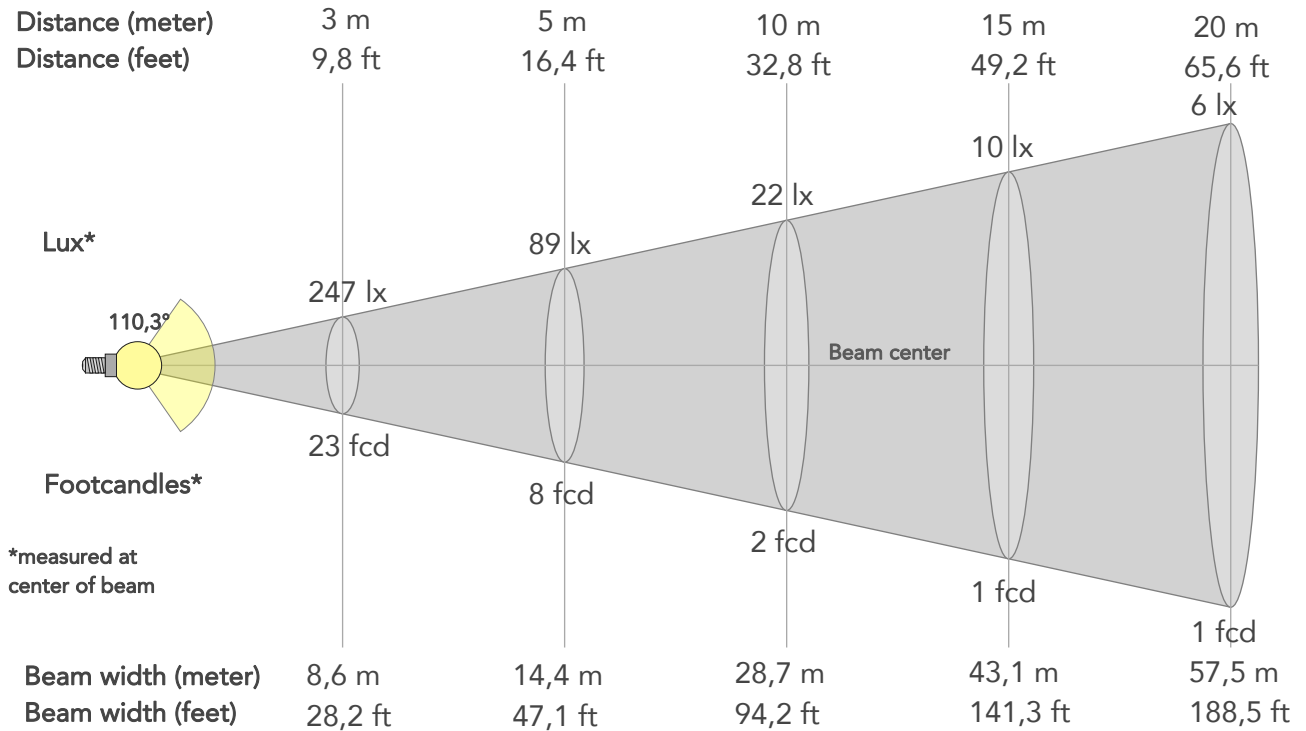
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	3%	-2%
2	89	4%	-2%
3	88	4%	-2%
4	92	2%	-1%
5	92	5%	5%
6	83	11%	6%
7	85	10%	0%
8	79	13%	-5%
9	84	7%	-7%
10	86	3%	-8%
11	92	2%	-5%
12	86	4%	-7%
13	87	4%	-10%
14	89	3%	-5%
15	90	4%	0%
16	89	3%	-7%



BEAM DETAILS



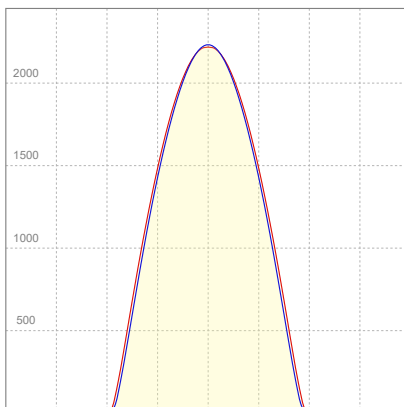
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
110,3°	156,3°	167,1°	81,2%	55,6%



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	2224lx	556lx	247lx	139lx	89lx	40lx	22lx	10lx	6lx	4lx	2lx	1lx	1lx
Footcand.	207fcd	52fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,9m	5,7m	8,6m	11,5m	14,4m	21,5m	28,7m	43,1m	57,5m	71,8m	86,2m	114,9m	143,6m
Beam wid.	9,5ft	19ft	28,2ft	37,6ft	47,1ft	70,7ft	94,2ft	141,3ft	188,5ft	235,6ft	282,7ft	376,9ft	471,2ft

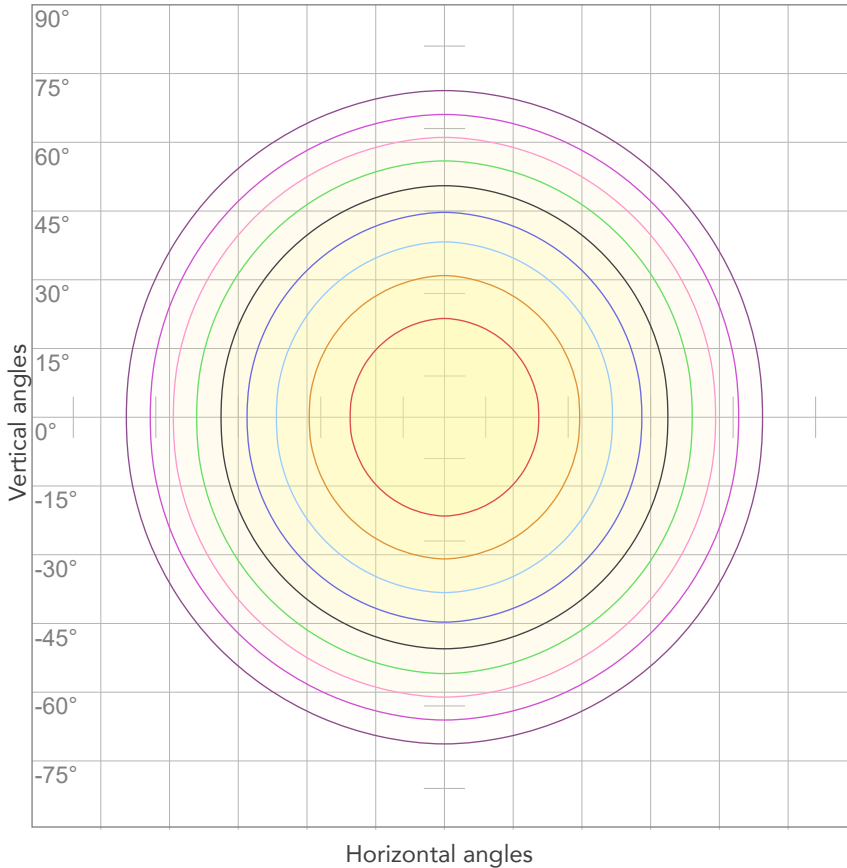
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,539A	112,8W	54lm/W

ISO CANDELA DIAGRAM



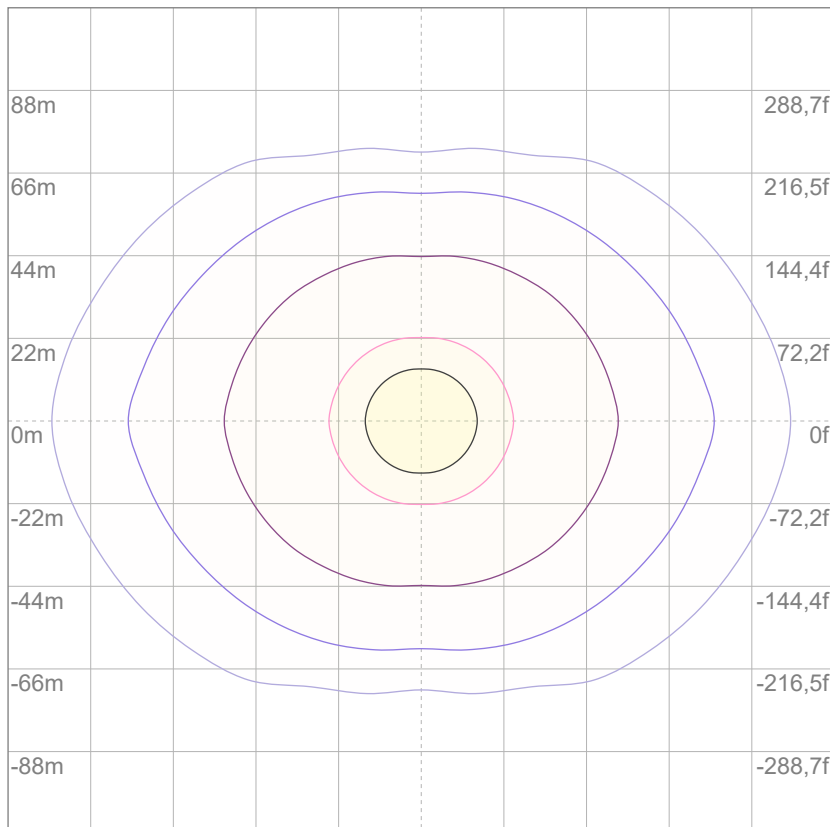
10%	222 cd
20%	445 cd
30%	667 cd
40%	889 cd
50%	1112 cd
60%	1334 cd
70%	1557 cd
80%	1779 cd

Conditions:

Number of c-planes: 4

Candela at center: 2224 cd

ISO LUX DIAGRAM



3%	0,667 lx
5%	1,11 lx
10%	2,22 lx
30%	6,67 lx
50%	11,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 22,2 lx

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



Total lumen output:

7231 lm

Peak candela output:

2943 cd

Light quality:

CRI: 87,7

Color temperature:

2789 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

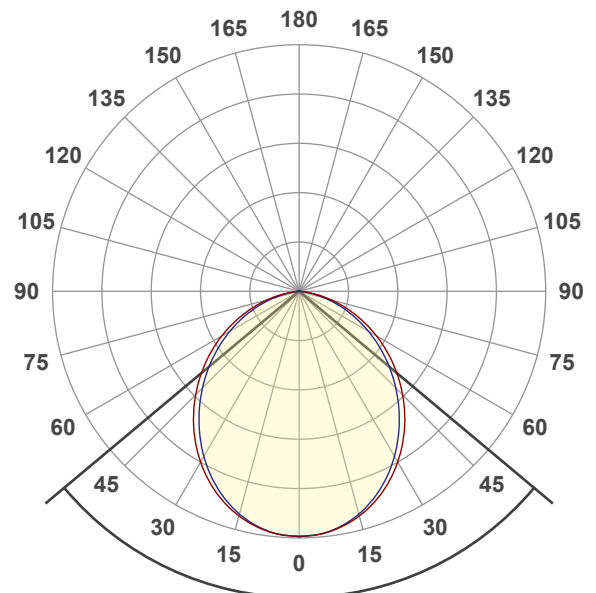
MEASURAMENT CONDITIONS:

Beam angle:
Filter MD

Target:
2800K HQ

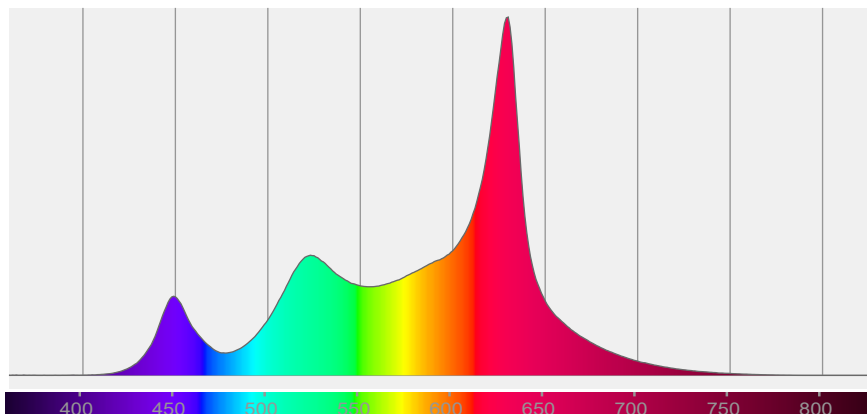
Operator:
Paolo Carvone

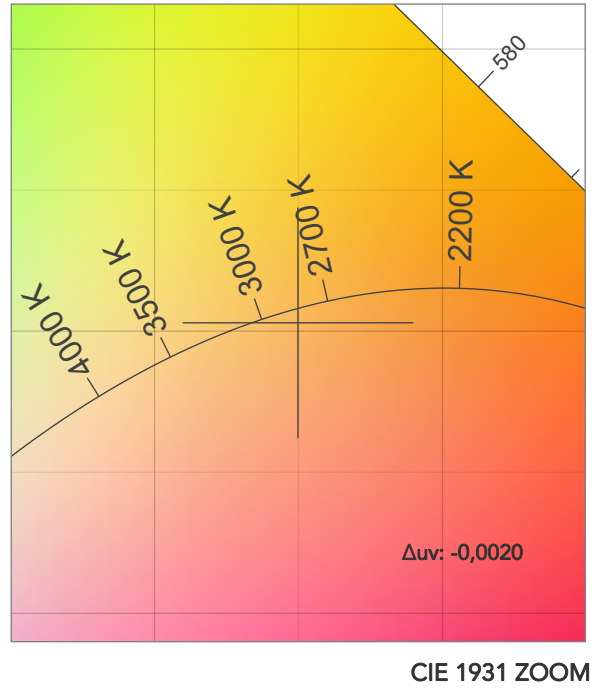
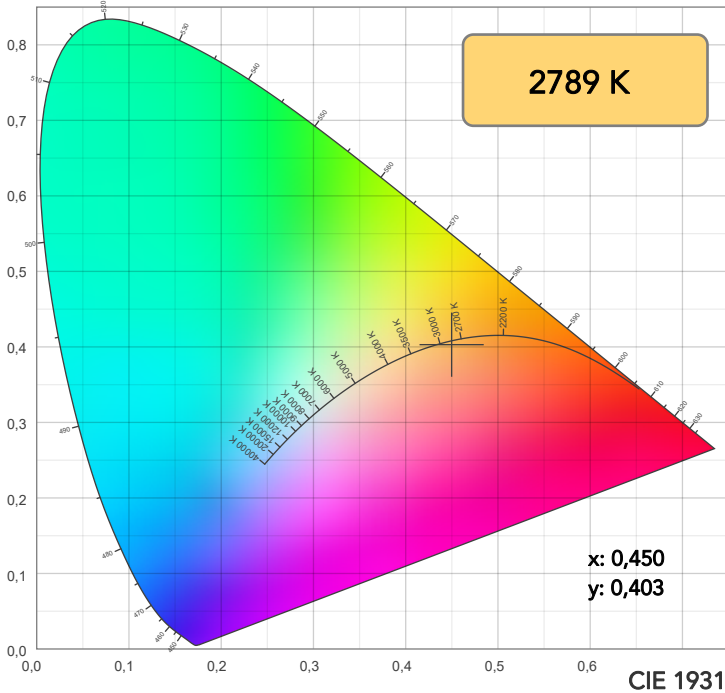
Date and time:
10/01/2022 10:50:11



Beam angle 50%: 100,2°
Field angle 10%: 153,3°
Cut off angle 2.5%: 166,2°

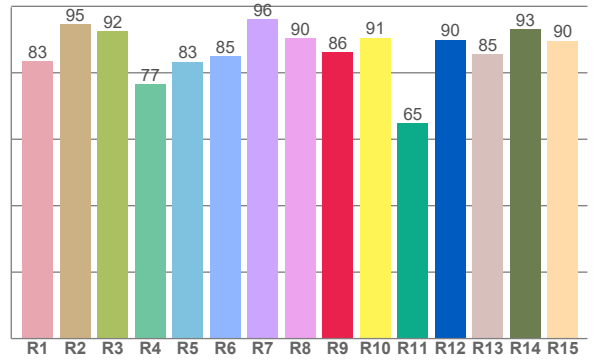
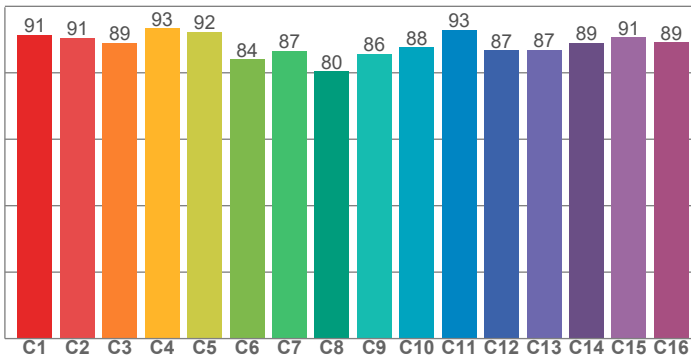
Spectra





TM30: 89,2

CRI: 87,7 (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
83,4	94,6	92,5	76,6	83,3	85,0	96,1	90,5	86,1	90,5	64,8	89,9	85,5	93,0	89,6

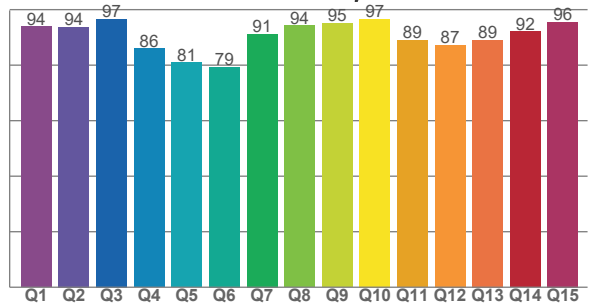
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,4	90,6	89,0	93,4	92,3	84,1	86,6	80,5	85,7	87,6	93,0	86,8	86,9	89,0	90,7	89,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,9	93,7	96,6	85,9	81,0	79,3	91,2	94,2	95,1	96,7	88,9	87,3	89,1	92,2	95,5

CQS: 89,0



COLOR PARAMETERS

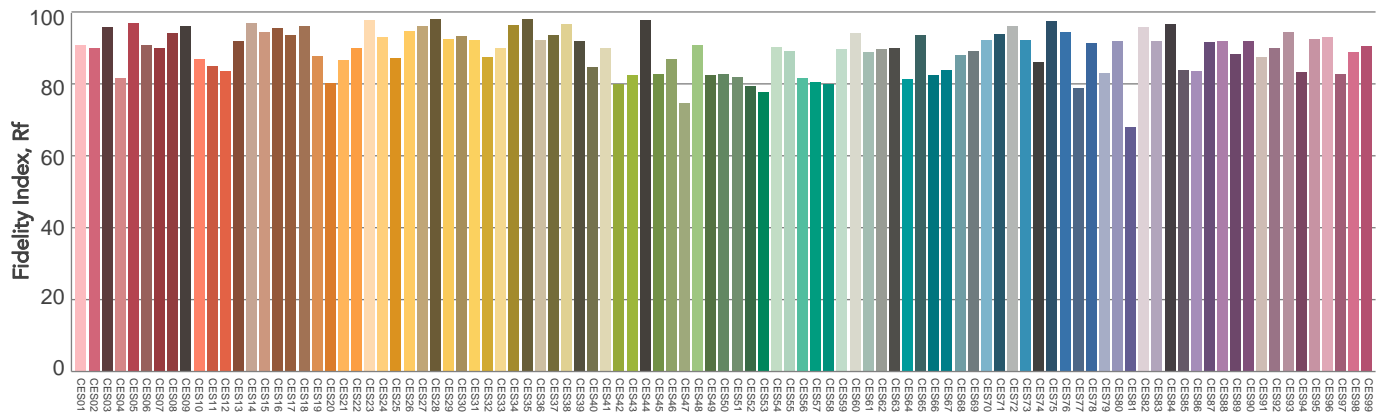
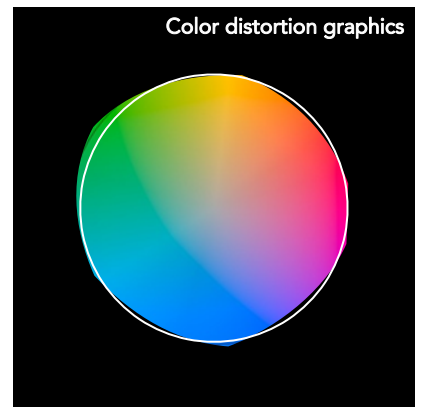
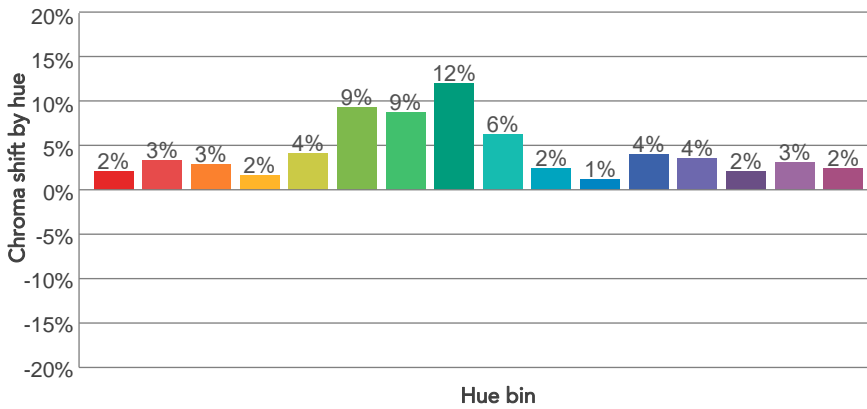
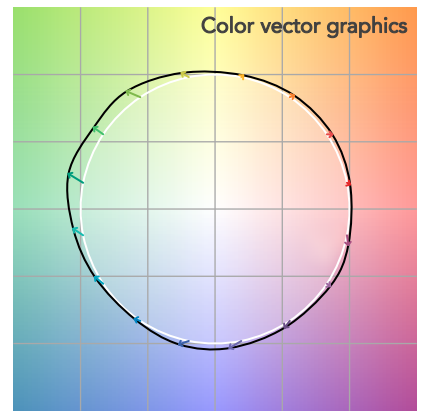
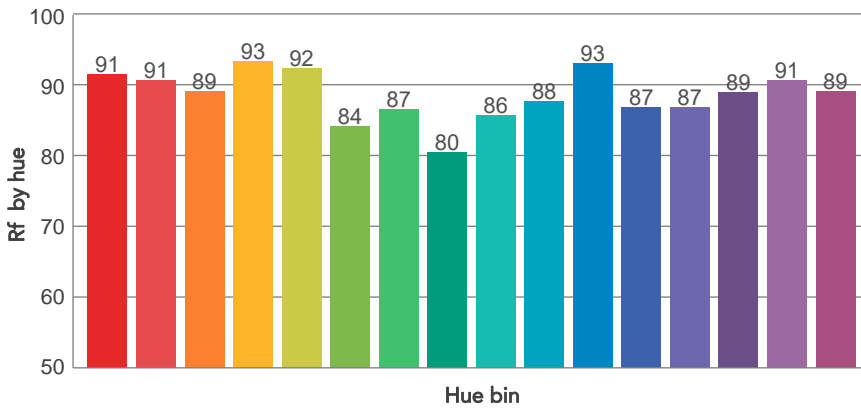
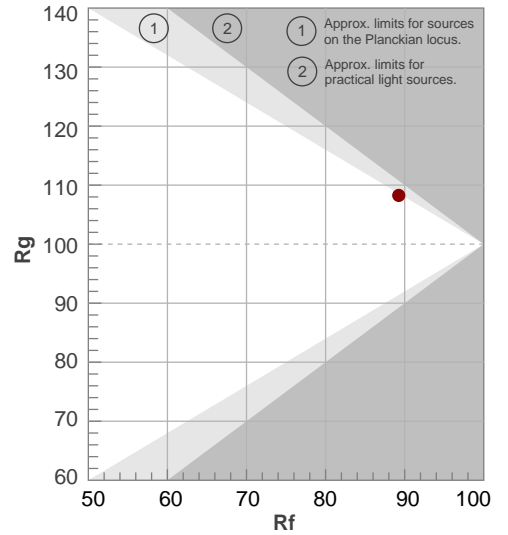
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2789 K	87,7	86,1	89,2	108,3	89,0	73	0,450	0,403	-0,0020

TM30 DETAILS

Rf 89,2
Fidelity index Rf

Rg 108,3
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	2%	-2%
2	91	3%	-2%
3	89	3%	-2%
4	93	2%	-1%
5	92	4%	5%
6	84	9%	6%
7	87	9%	0%
8	80	12%	-4%
9	86	6%	-6%
10	88	2%	-8%
11	93	1%	-4%
12	87	4%	-7%
13	87	4%	-10%
14	89	2%	-6%
15	91	3%	0%
16	89	2%	-7%

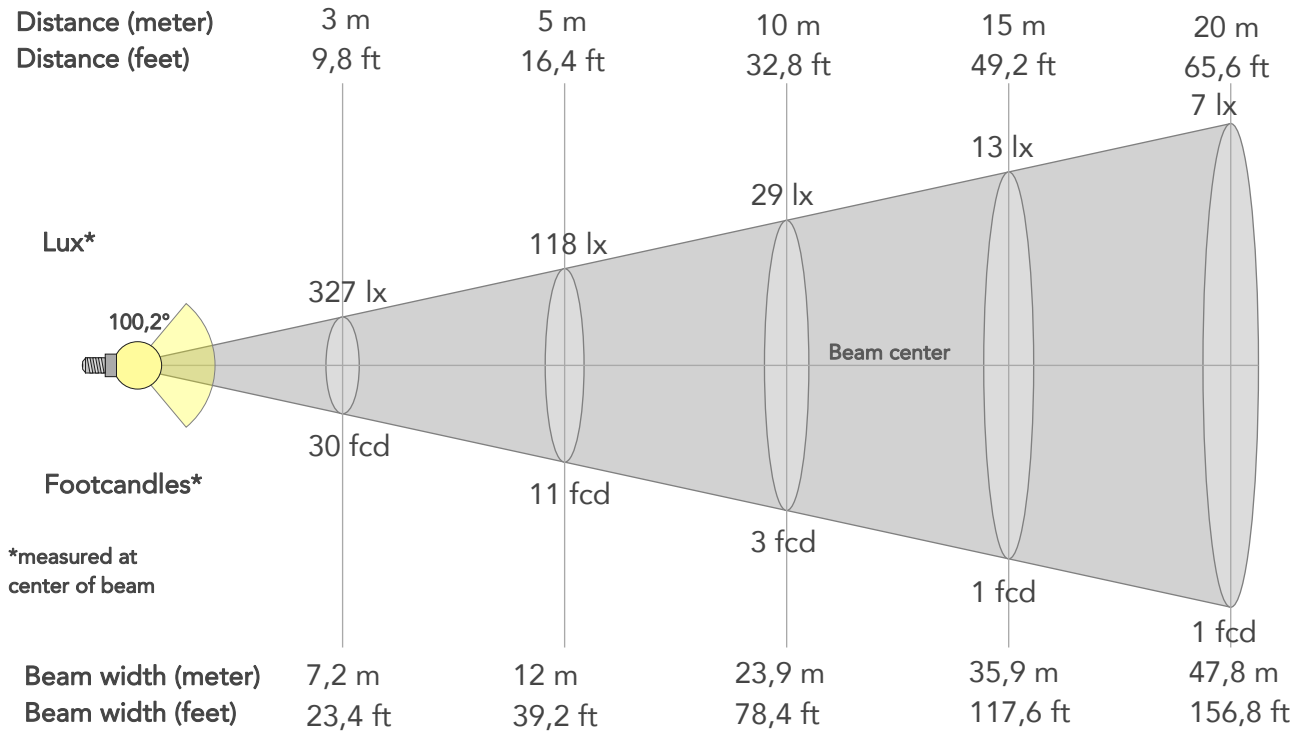


Color Evaluation Sample

BEAM DETAILS



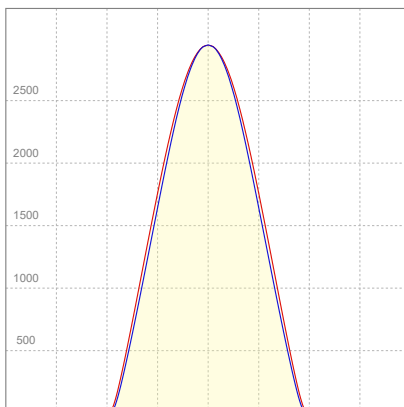
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
100,2°	153,3°	166,2°	82,5%	58,3%



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	2940lx	735lx	327lx	184lx	118lx	52lx	29lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	273fcd	68fcd	30fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,4m	4,8m	7,2m	9,6m	12m	17,9m	23,9m	35,9m	47,8m	59,8m	71,7m	95,6m	119,5m
Beam wid.	7,9ft	15,8ft	23,4ft	31,3ft	39,2ft	58,8ft	78,4ft	117,6ft	156,8ft	196ft	235,2ft	313,7ft	392,1ft

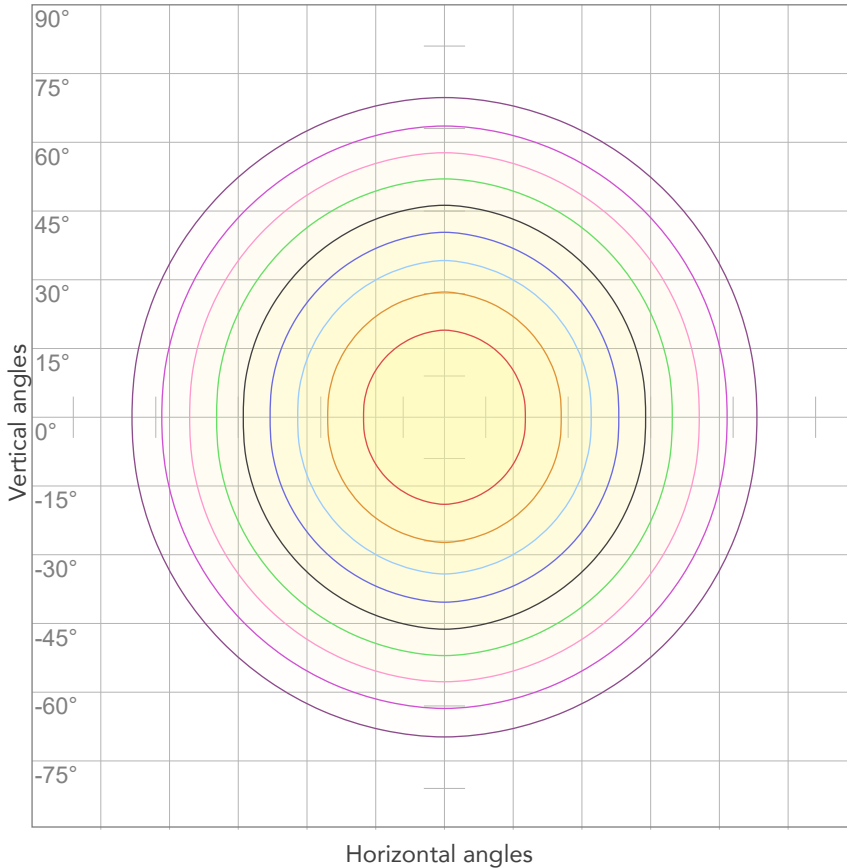
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,535A	112,1W	64lm/W

ISO CANDELA DIAGRAM



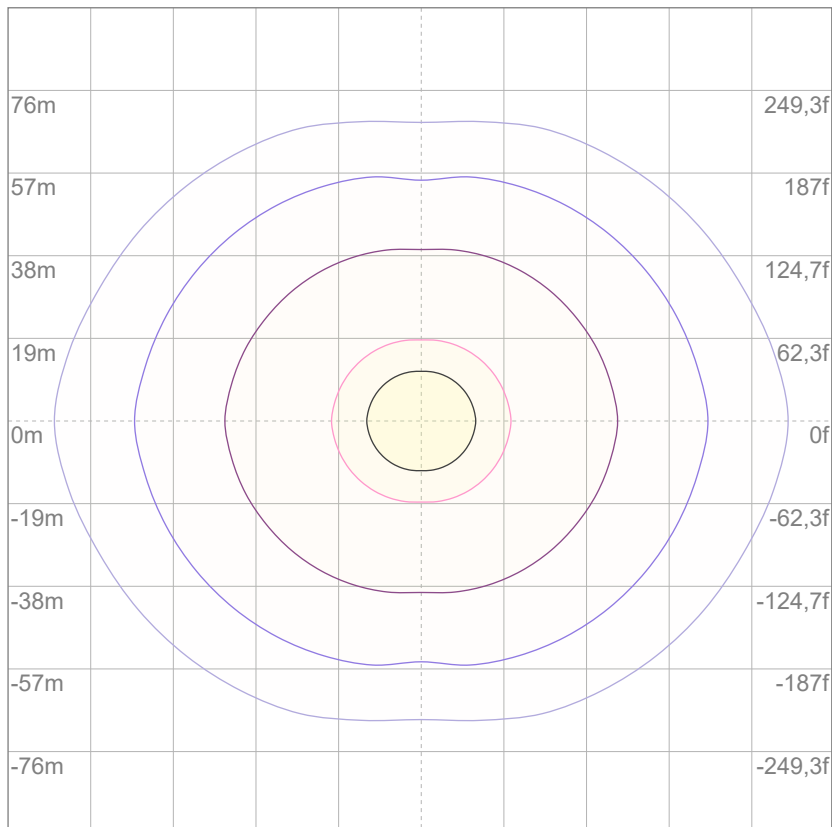
10%	294 cd
20%	588 cd
30%	882 cd
40%	1176 cd
50%	1470 cd
60%	1764 cd
70%	2058 cd
80%	2352 cd

Conditions:

Number of c-planes: 4

Candela at center: 2940 cd

ISO LUX DIAGRAM



3%	0,882 lx
5%	1,47 lx
10%	2,94 lx
30%	8,82 lx
50%	14,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 29,4 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:

7515 lm

Peak candela output:

3132 cd

Light quality:

CRI: 87,1

Color temperature:

2773 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

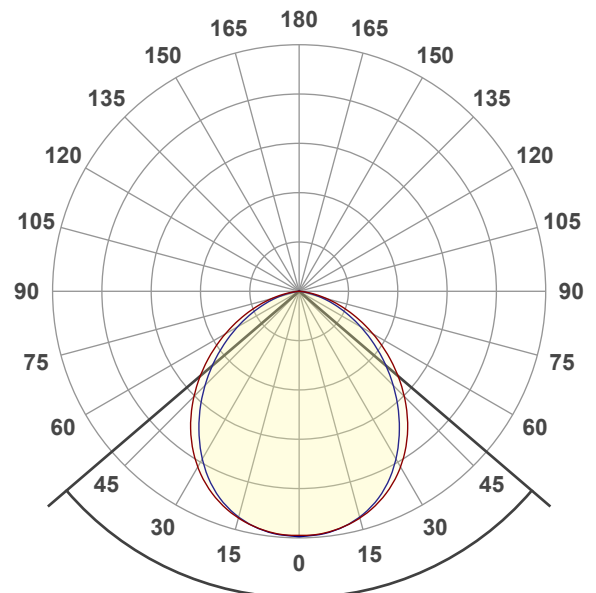
MEASURAMENT CONDITIONS:

Beam angle:
Filter LD

Target:
2800K HQ

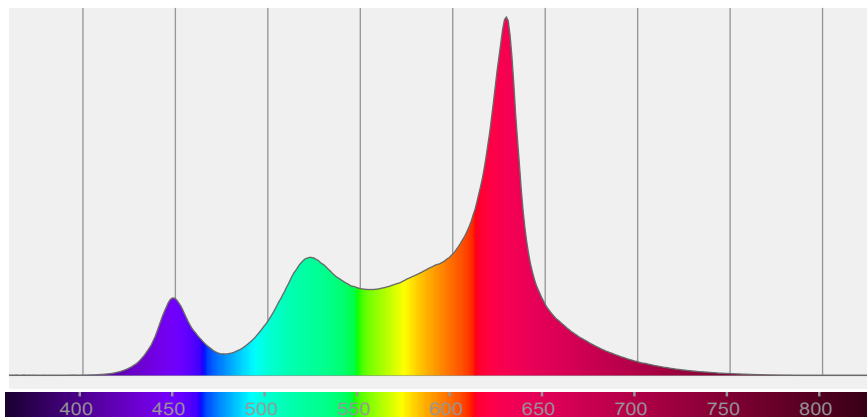
Operator:
Paolo Carvone

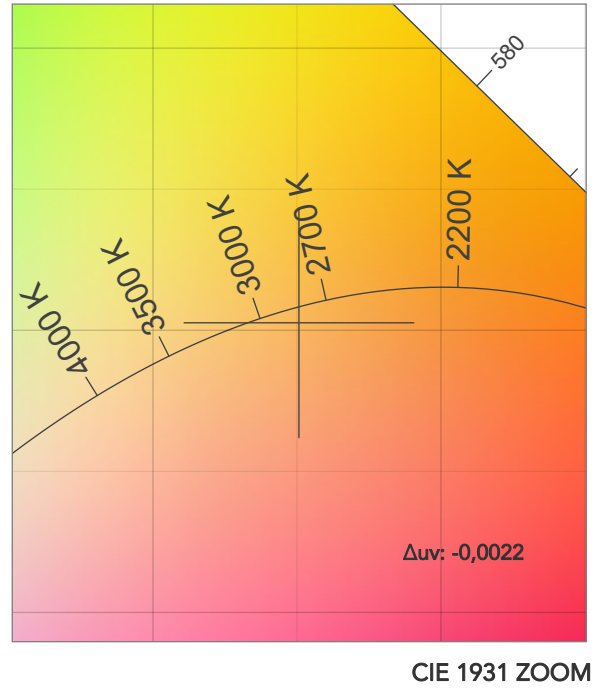
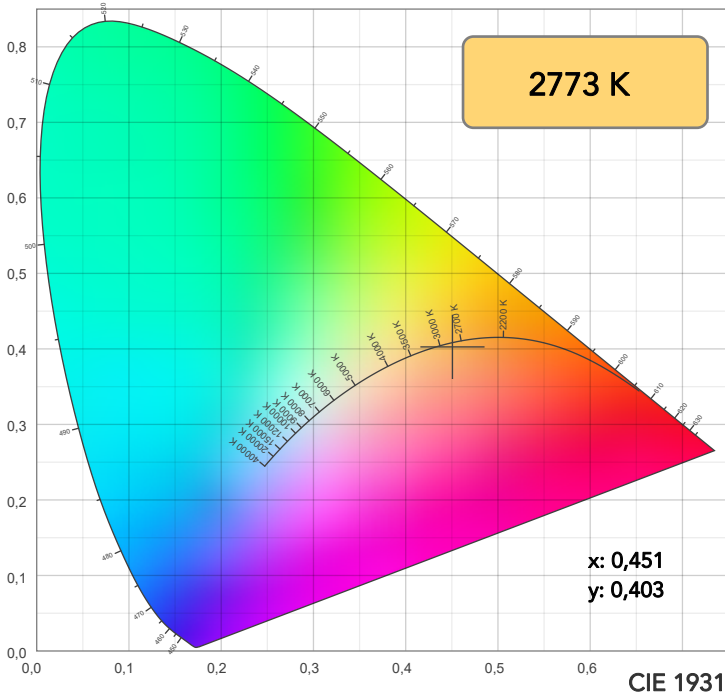
Date and time:
10/01/2022 14:16:32



Beam angle 50%: 98,8°
Field angle 10%: 150,2°
Cut off angle 2.5%: 164,3°

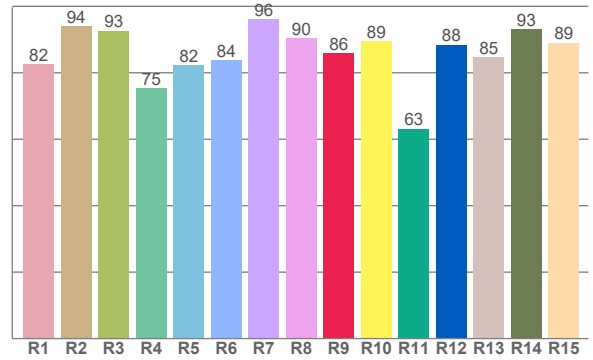
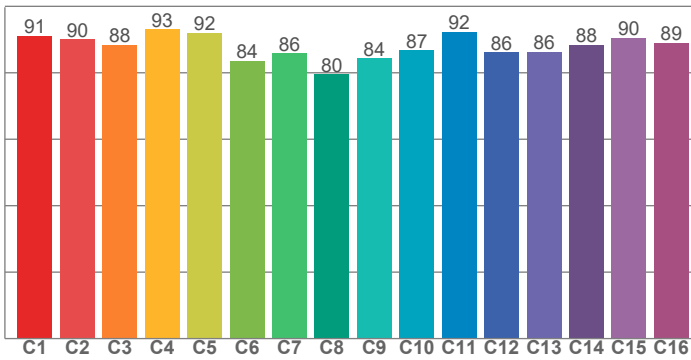
Spectra





TM30: 88,7

CRI: 87,1 (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
82,5	94,1	92,6	75,4	82,3	83,8	96,1	90,3	85,9	89,4	63,2	88,5	84,6	93,1	89,0

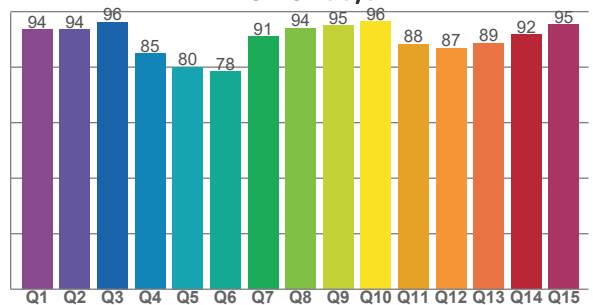
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,1	90,1	88,5	93,0	92,0	83,6	85,9	79,6	84,3	86,8	92,2	86,2	86,3	88,5	90,4	89,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,6	93,5	96,3	84,9	80,0	78,5	91,0	94,0	95,0	96,4	88,4	86,8	88,7	91,7	95,3

CQS: 88,5



COLOR PARAMETERS

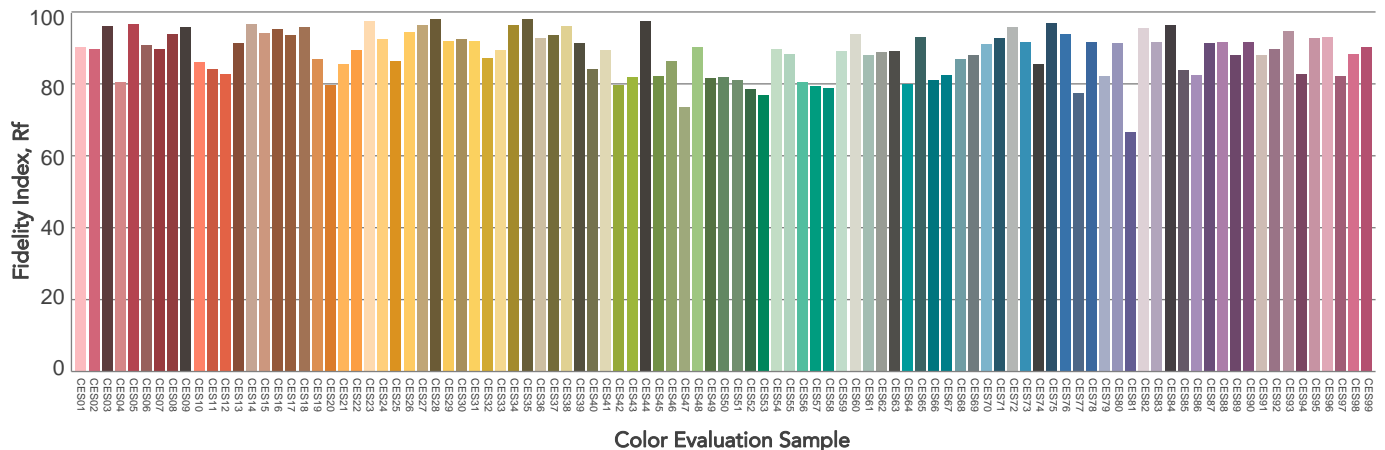
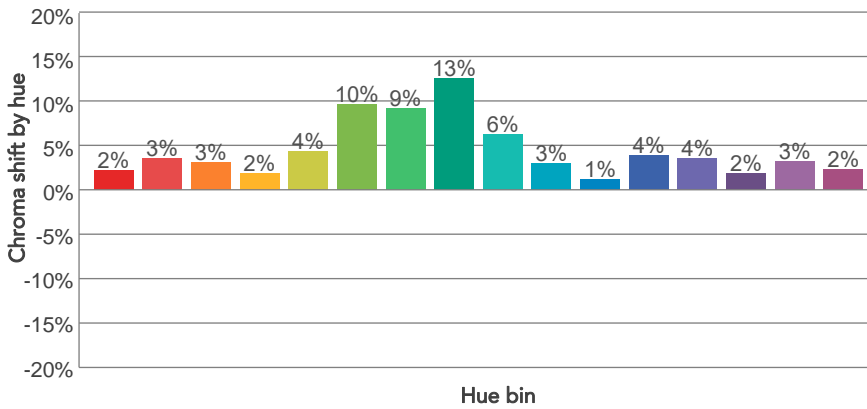
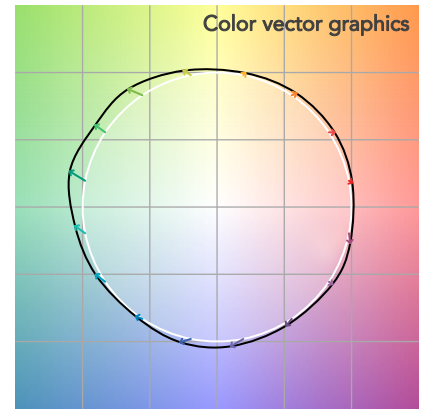
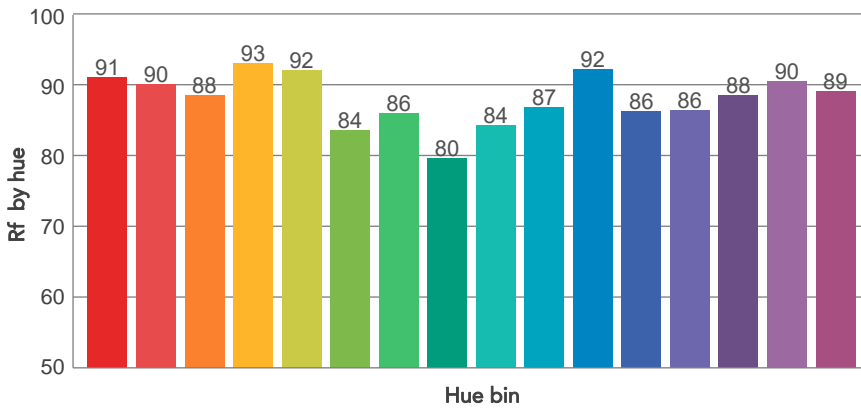
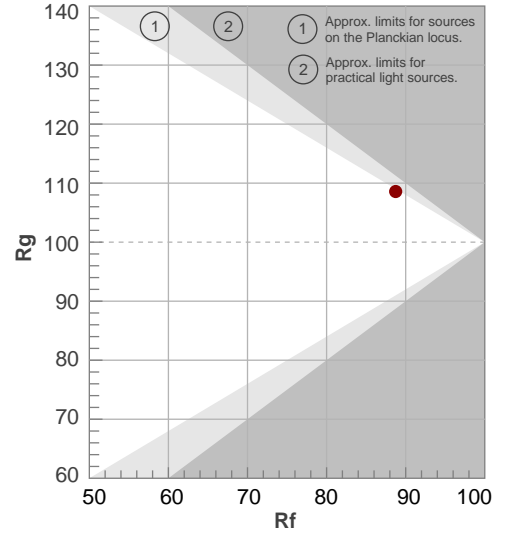
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2773 K	87,1	85,9	88,7	108,6	88,5	71	0,451	0,403	-0,0022

TM30 DETAILS

Rf 88,7
Fidelity index Rf

Rg 108,6
Gammut index

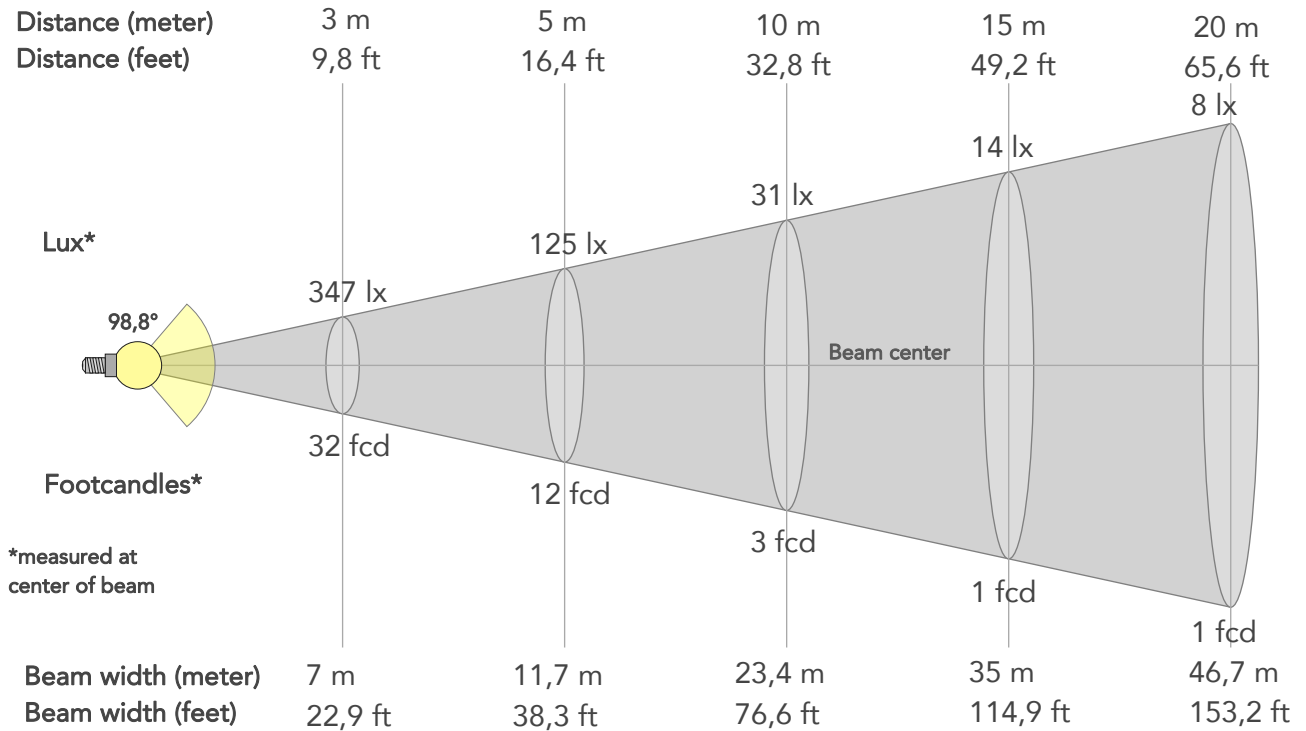
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	2%	-2%
2	90	3%	-2%
3	88	3%	-2%
4	93	2%	-1%
5	92	4%	5%
6	84	10%	6%
7	86	9%	0%
8	80	13%	-5%
9	84	6%	-7%
10	87	3%	-8%
11	92	1%	-5%
12	86	4%	-7%
13	86	4%	-10%
14	88	2%	-6%
15	90	3%	0%
16	89	2%	-7%



BEAM DETAILS



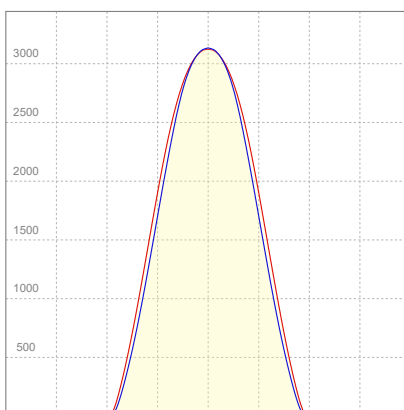
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
98,8°	150,2°	164,3°	84,5%	60,5%



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	3125lx	781lx	347lx	195lx	125lx	56lx	31lx	14lx	8lx	5lx	3lx	2lx	1lx
Footcand.	290fcd	73fcd	32fcd	18fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,3m	4,7m	7m	9,3m	11,7m	17,5m	23,4m	35m	46,7m	58,4m	70,1m	93,4m	116,8m
Beam wid.	7,7ft	15,4ft	22,9ft	30,6ft	38,3ft	57,4ft	76,6ft	114,9ft	153,2ft	191,5ft	229,8ft	306,4ft	382,9ft

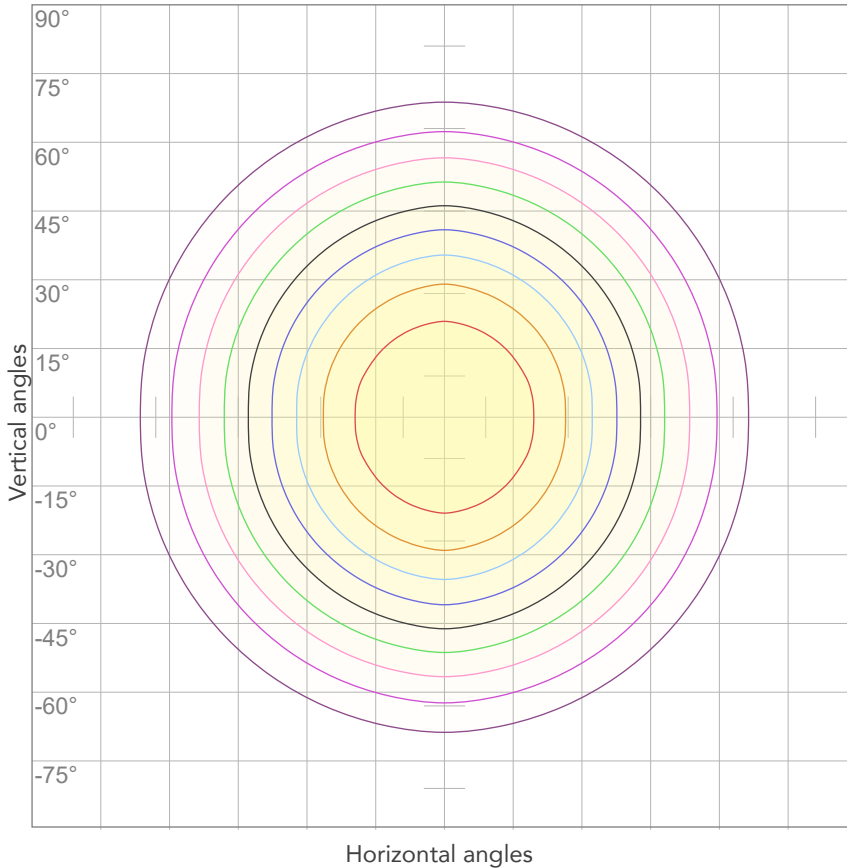
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,537A	112,9W	67lm/W

ISO CANDELA DIAGRAM



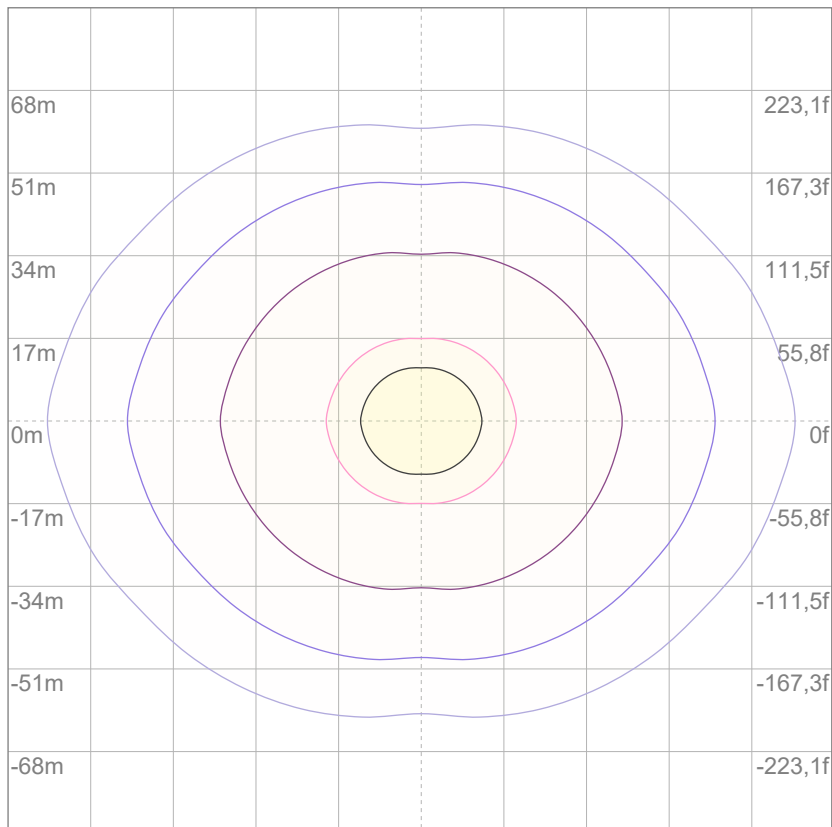
10%	312 cd
20%	625 cd
30%	937 cd
40%	1250 cd
50%	1562 cd
60%	1875 cd
70%	2187 cd
80%	2500 cd

Conditions:

Number of c-planes: 4

Candela at center: 3125 cd

ISO LUX DIAGRAM



3%	0,937 lx
5%	1,56 lx
10%	3,12 lx
30%	9,37 lx
50%	15,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 31,2 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:

6427 lm

Peak candela output:

4190 cd

Light quality:

CRI: 87,9

Color temperature:

2771 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

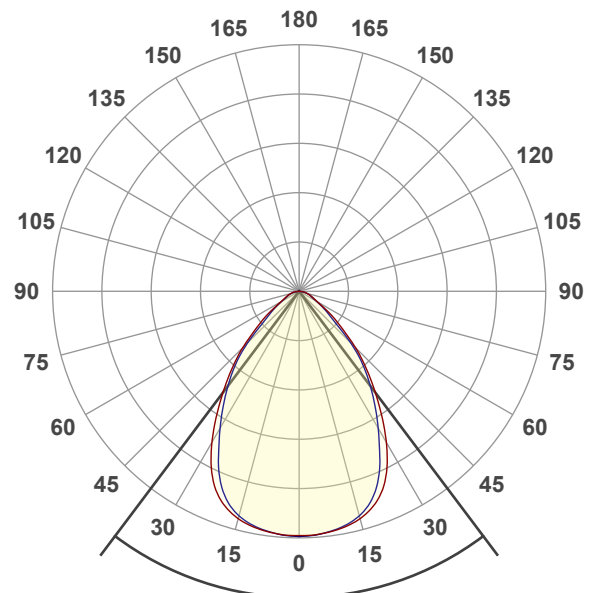
MEASUREMENT CONDITIONS:

Beam angle:
Filter INT

Target:
2800K HQ

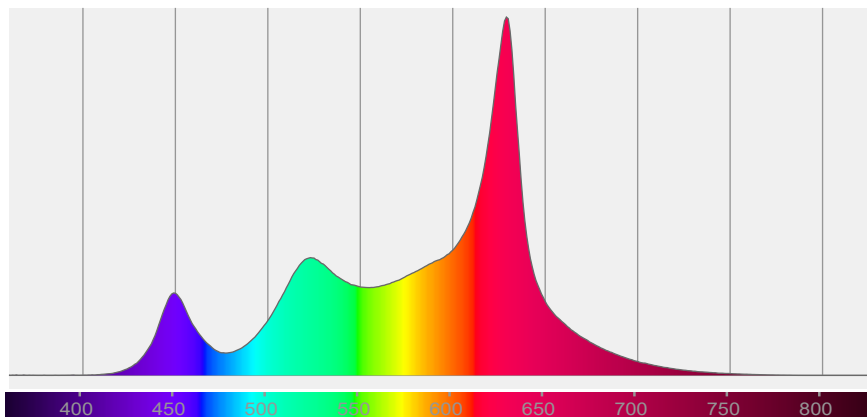
Operator:
Paolo Carvone

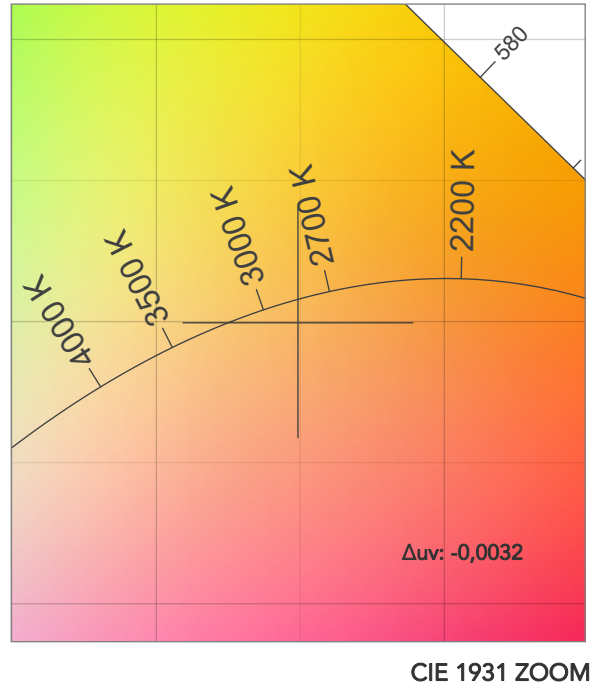
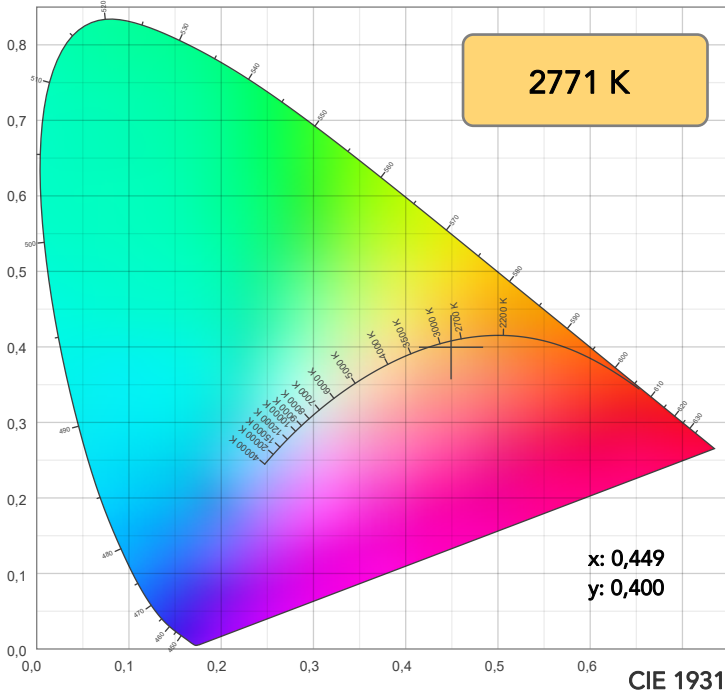
Date and time:
10/01/2022 14:47:50



Beam angle 50%: 73,9°
Field angle 10%: 116,1°
Cut off angle 2.5%: 156,9°

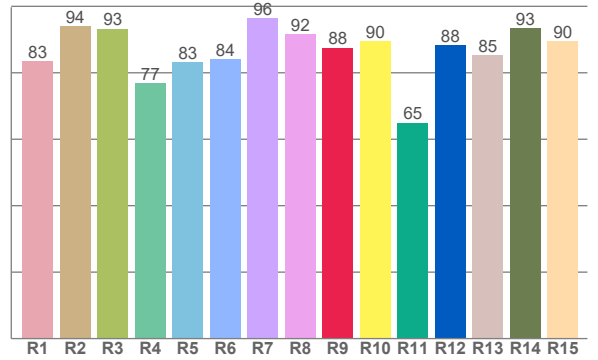
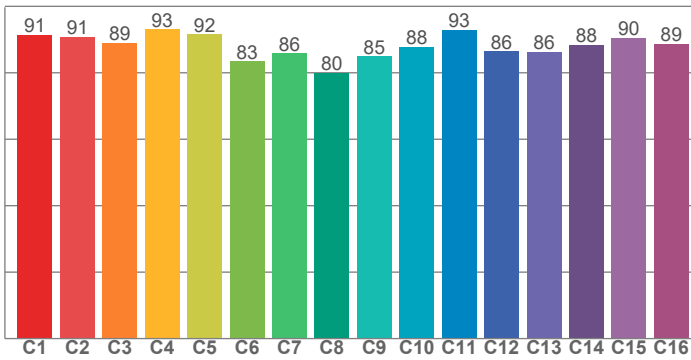
Spectra





TM30: 89,0

CRI: 87,9 (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
83,4	94,1	93,3	76,9	83,2	84,1	96,5	91,5	87,6	89,5	65,0	88,2	85,3	93,5	89,6

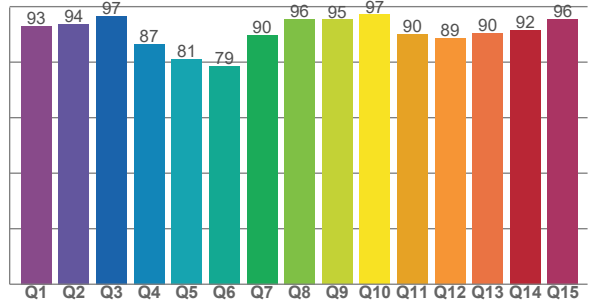
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,4	90,7	89,0	93,1	91,6	83,4	85,9	80,0	84,9	87,8	93,0	86,5	86,4	88,5	90,5	88,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,1	93,7	96,6	86,6	81,2	78,7	89,8	95,5	95,4	97,1	90,0	88,7	90,4	91,5	95,6

CQS: 89,2



COLOR PARAMETERS

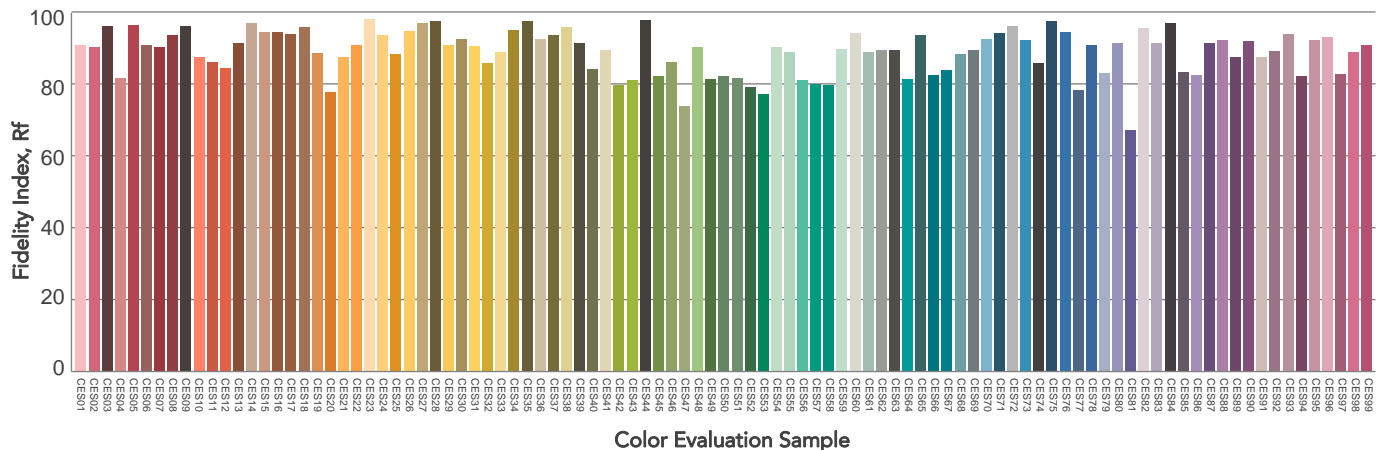
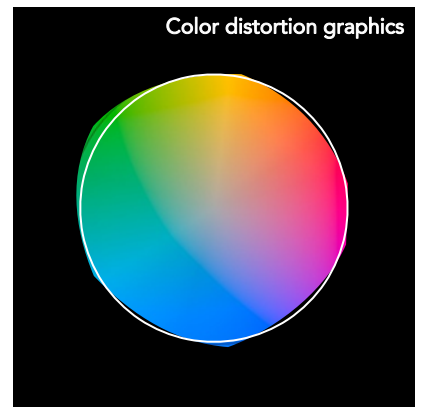
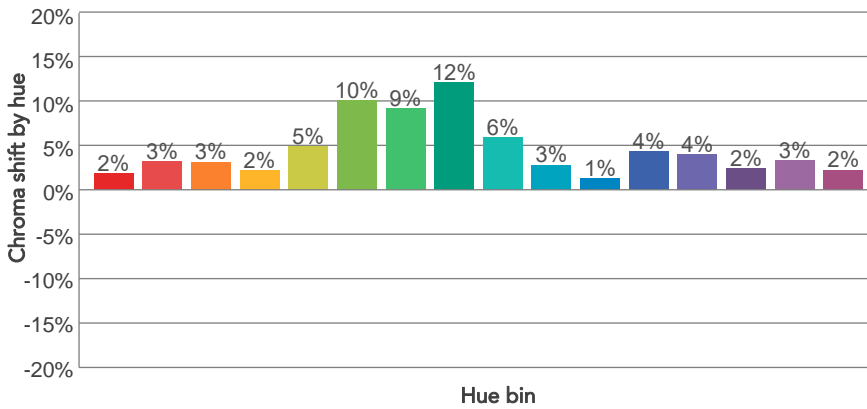
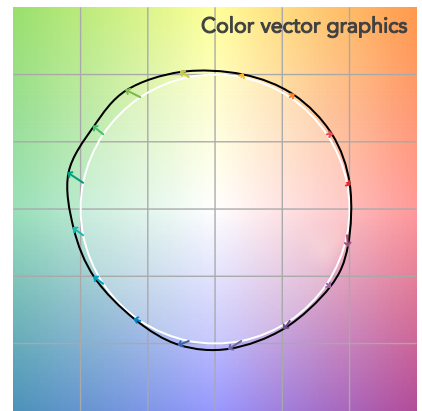
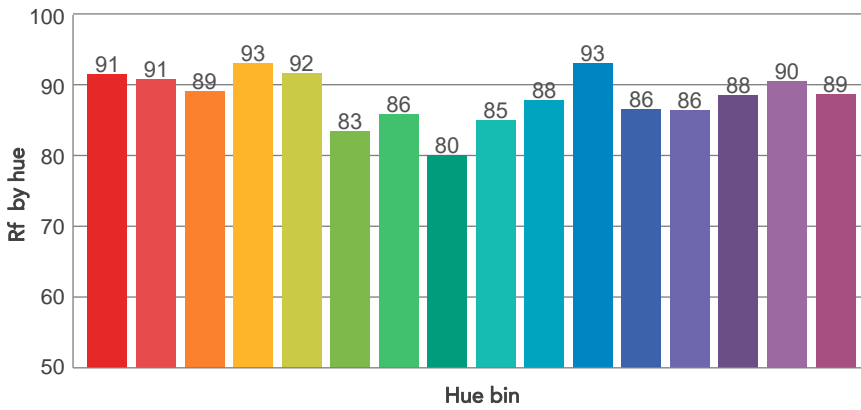
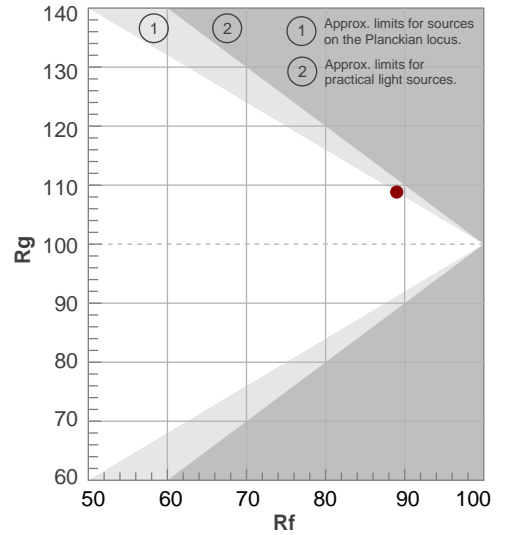
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2771 K	87,9	87,6	89,0	108,8	89,2	72	0,449	0,400	-0,0032

TM30 DETAILS

Rf 89,0
Fidelity index Rf

Rg 108,8
Gammut index

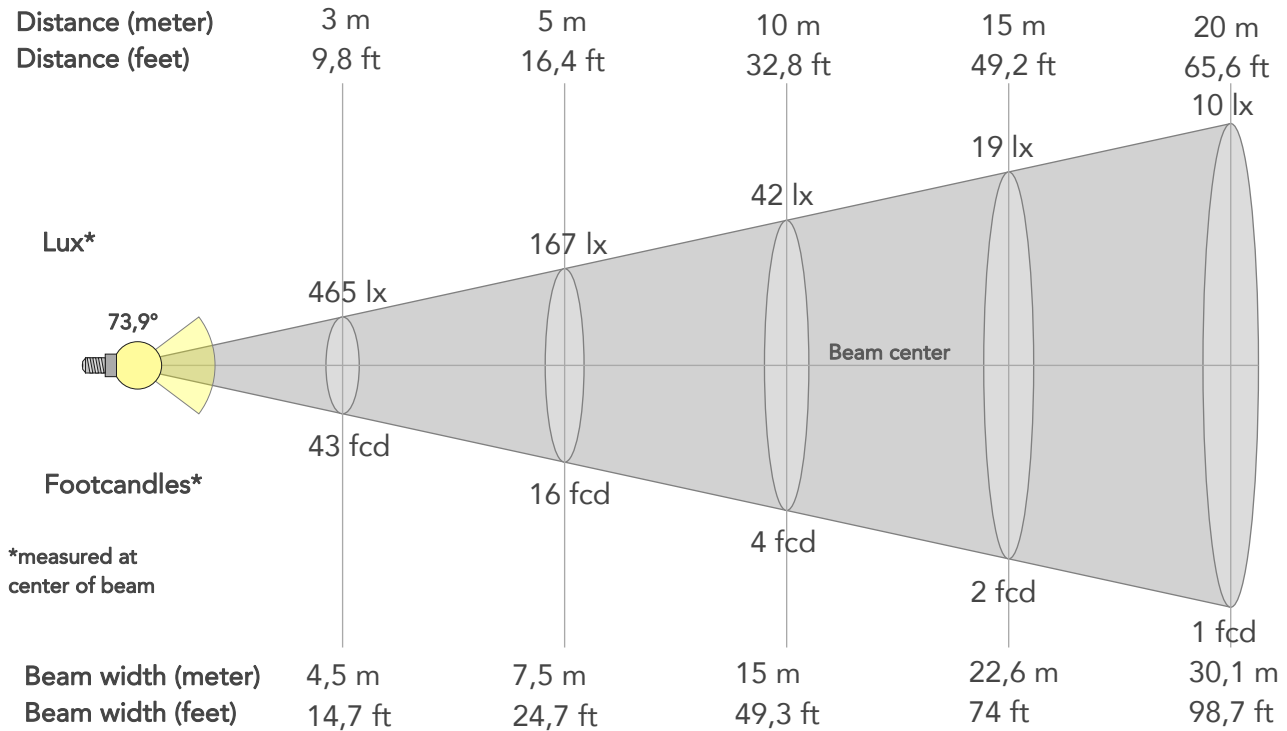
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	2%	-2%
2	91	3%	-2%
3	89	3%	-1%
4	93	2%	-1%
5	92	5%	5%
6	83	10%	6%
7	86	9%	-1%
8	80	12%	-5%
9	85	6%	-7%
10	88	3%	-8%
11	93	1%	-4%
12	86	4%	-7%
13	86	4%	-10%
14	88	2%	-6%
15	90	3%	-1%
16	89	2%	-7%



BEAM DETAILS



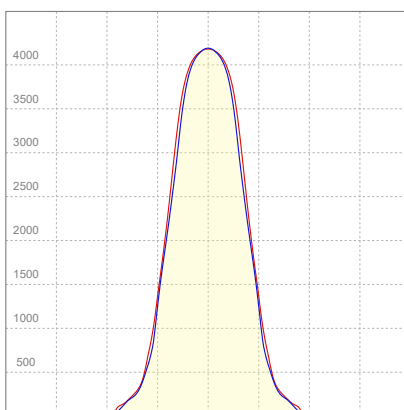
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
73,9°	116,1°	156,9°	93,3%	78,8%



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	4183lx	1046lx	465lx	261lx	167lx	74lx	42lx	19lx	10lx	7lx	5lx	3lx	2lx
Footcand.	389fcd	97fcd	43fcd	24fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,5m	6m	7,5m	11,3m	15m	22,6m	30,1m	37,6m	45,1m	60,2m	75,2m
Beam wid.	5ft	9,9ft	14,7ft	19,7ft	24,7ft	37ft	49,3ft	74ft	98,7ft	123,3ft	148ft	197,3ft	246,7ft

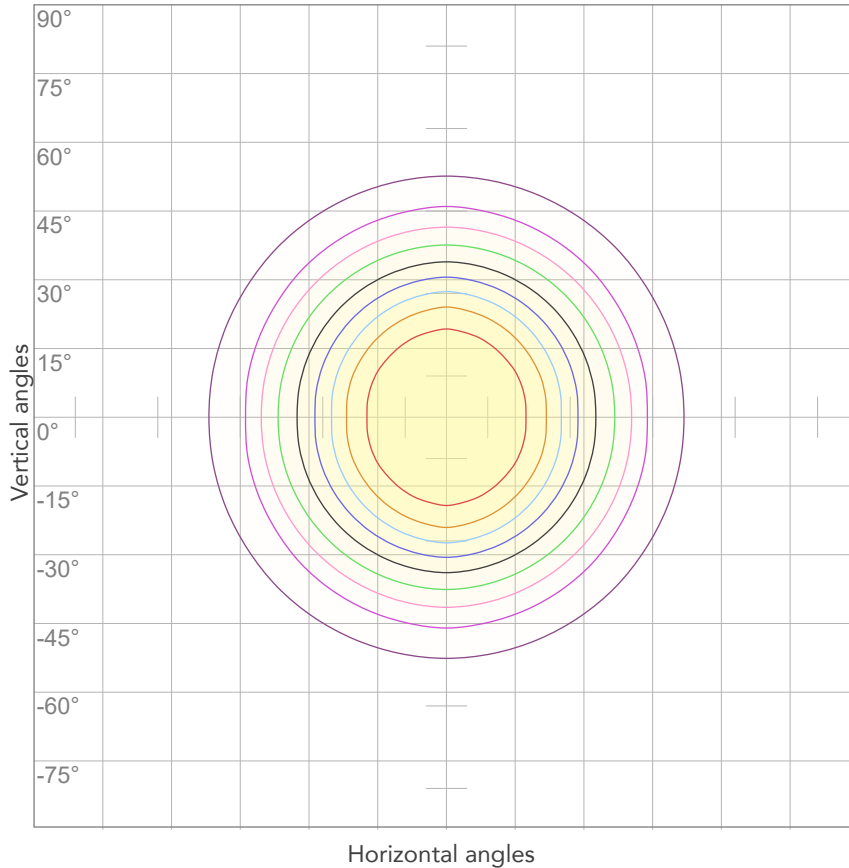
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,546A	113,5W	57lm/W

ISO CANDELA DIAGRAM



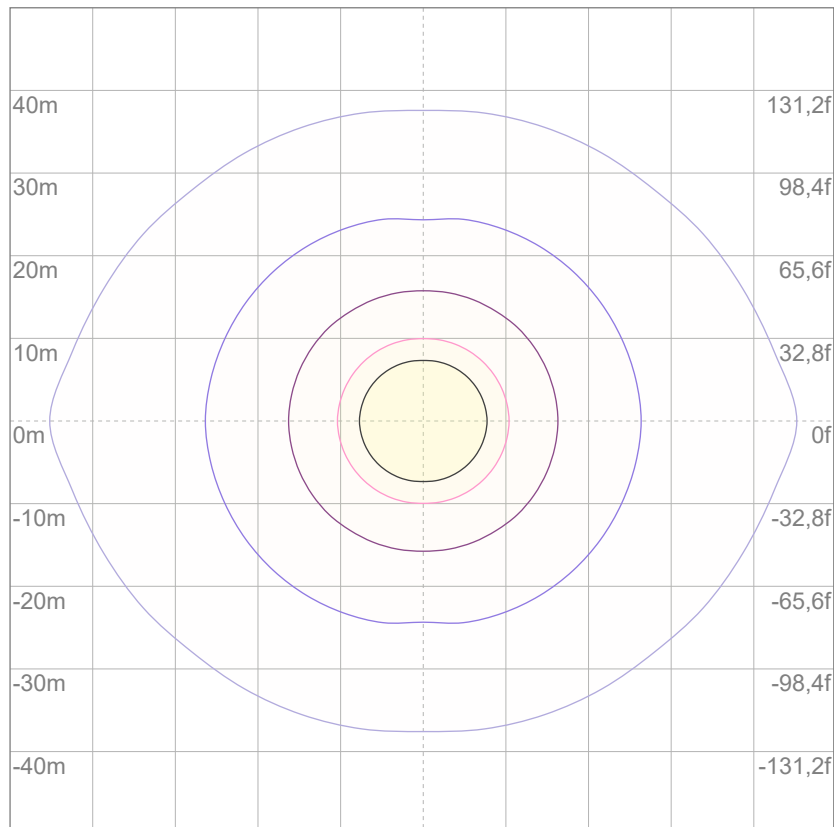
10%	418 cd
20%	837 cd
30%	1255 cd
40%	1673 cd
50%	2092 cd
60%	2510 cd
70%	2928 cd
80%	3347 cd

Conditions:

Number of c-planes: 4

Candela at center: 4183 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,26 lx
5%	2,09 lx
10%	4,18 lx
30%	12,6 lx
50%	20,9 lx

Conditions:

Number of c-planes: 4

Lux at center: 41,8 lx

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



Total lumen output:

6176 lm

Peak candela output:

2249 cd

Light quality:

CRI: 92,3

Color temperature:

3269 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

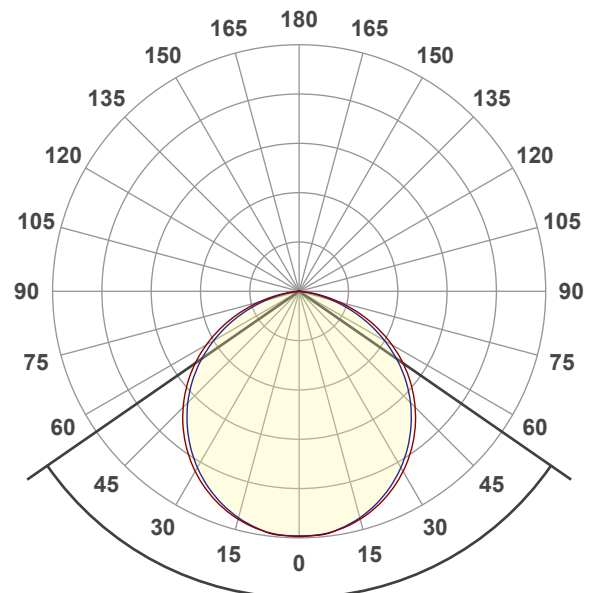
MEASURAMENT CONDITIONS:

Beam angle:
Filter HD

Target:
3200K HQ

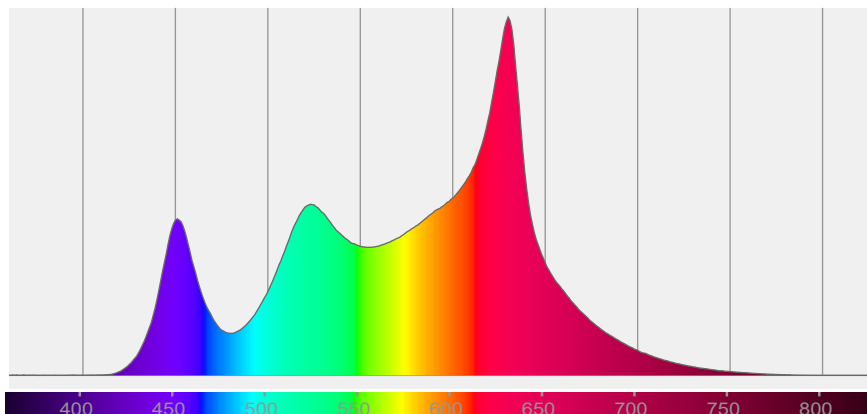
Operator:
Paolo Carvone

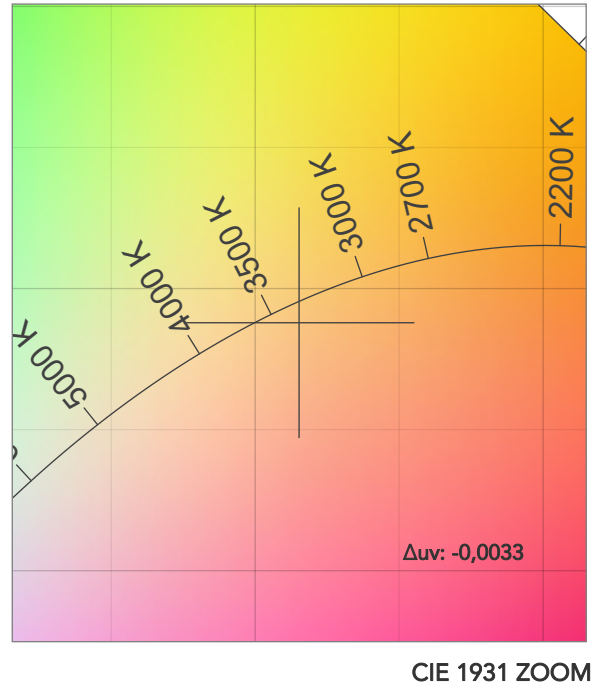
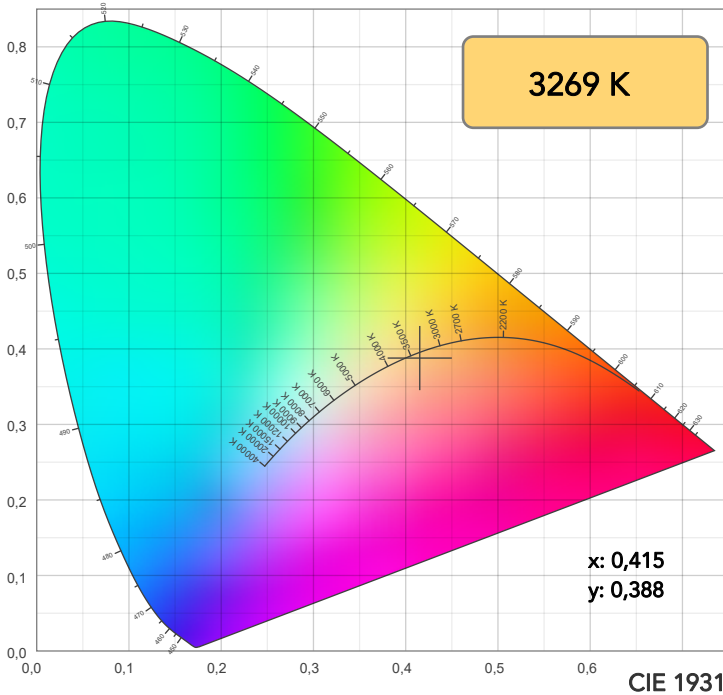
Date and time:
10/01/2022 15:45:36



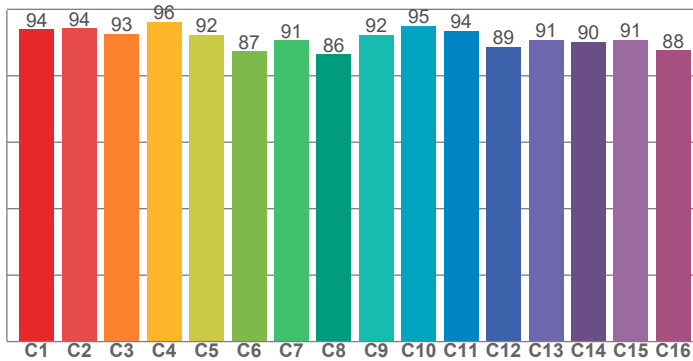
Beam angle 50%: 110,6°
Field angle 10%: 156,4°
Cut off angle 2.5%: 167,1°

Spectra

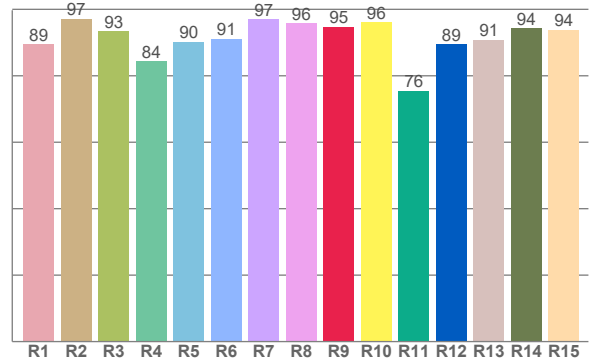




TM30: 92,0



CRI: 92,3 (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
89,4	97,2	93,4	84,3	90,2	91,2	97,1	95,9	94,8	96,1	75,5	89,4	90,9	94,3	93,9

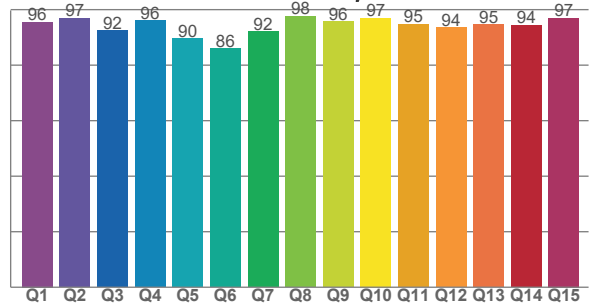
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,0	94,3	92,7	96,2	92,3	87,3	90,7	86,5	92,3	95,0	93,6	88,6	90,8	90,1	90,8	87,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,5	96,9	92,5	96,0	89,6	85,9	92,2	97,6	95,7	97,0	94,7	93,6	94,6	94,4	97,0

CQS: 93,3



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3269 K	92,3	94,8	92,0	106,7	93,3	84	0,415	0,388	-0,0033

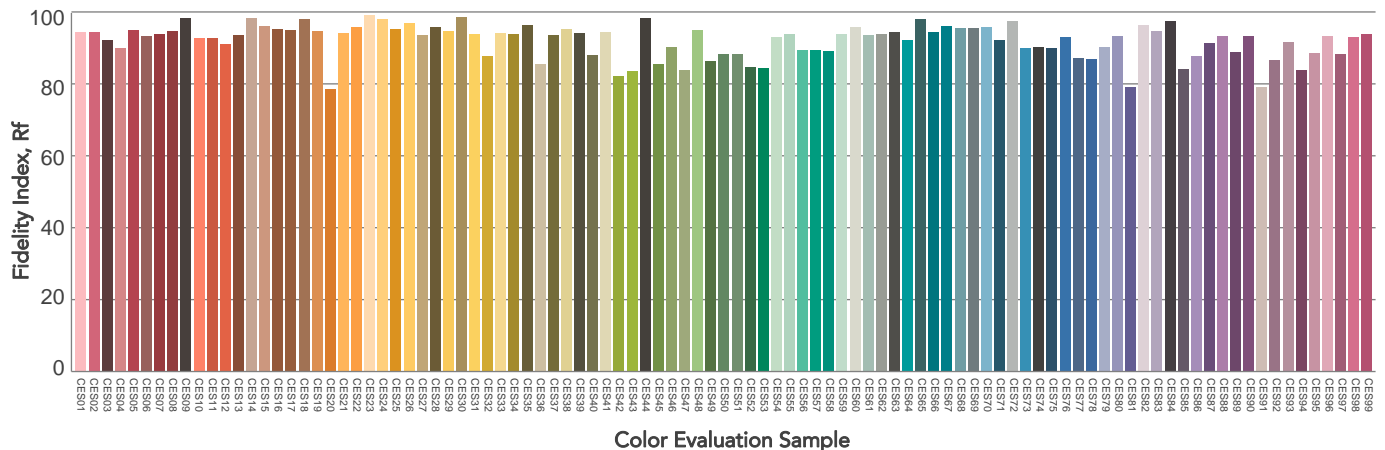
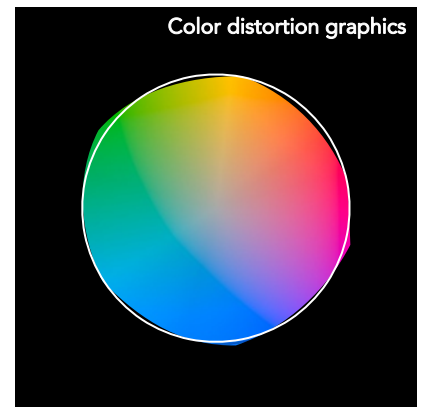
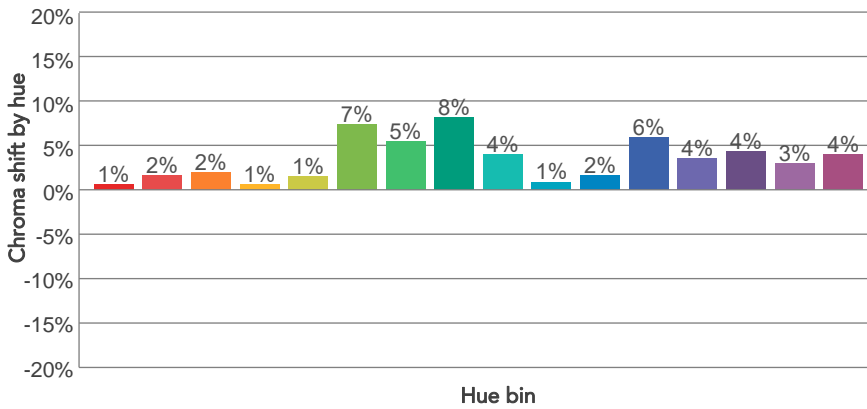
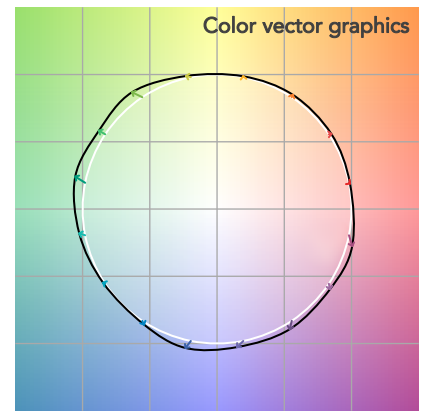
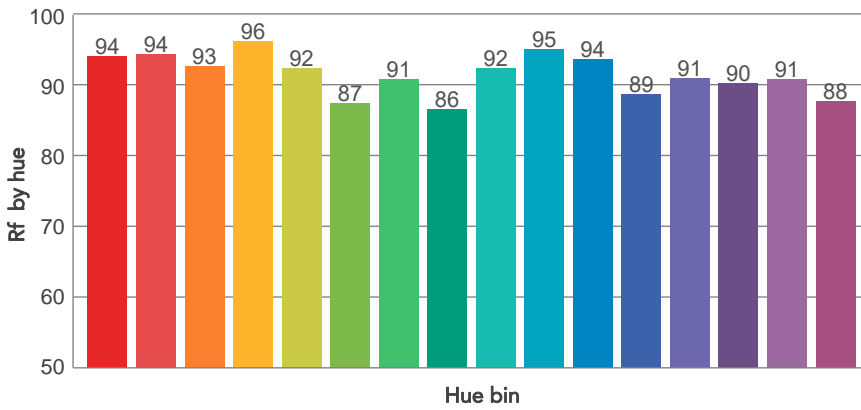
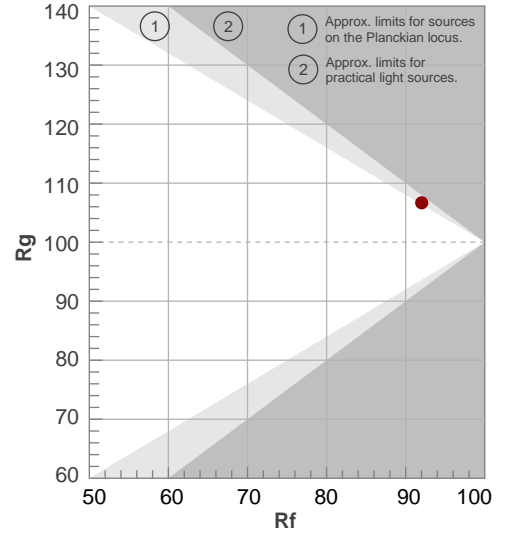
TM30 DETAILS



Rf 92,0
Fidelity index Rf

Rg 106,7
Gammut index

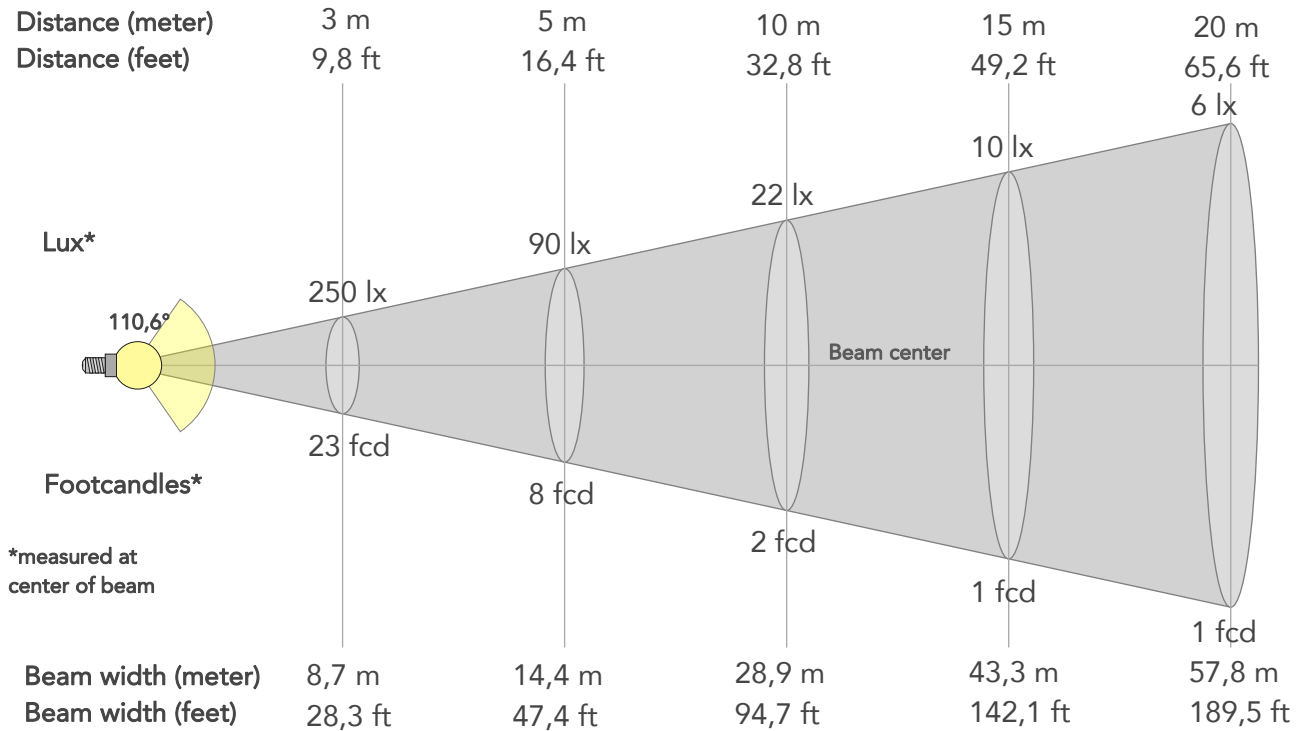
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	94	2%	-1%
3	93	2%	0%
4	96	1%	0%
5	92	1%	3%
6	87	7%	4%
7	91	5%	0%
8	86	8%	-3%
9	92	4%	-2%
10	95	1%	-2%
11	94	2%	3%
12	89	6%	-3%
13	91	4%	-5%
14	90	4%	-5%
15	91	3%	-3%
16	88	4%	-7%



BEAM DETAILS



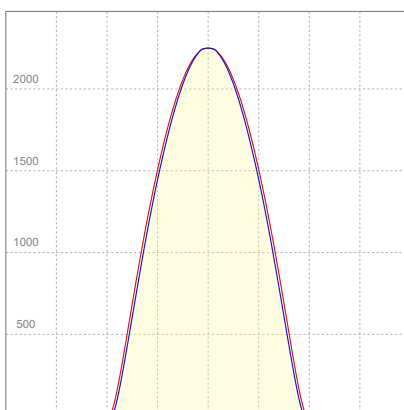
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
110,6°	156,4°	167,1°	80,8%	55,3%



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	2247lx	562lx	250lx	140lx	90lx	40lx	22lx	10lx	6lx	4lx	2lx	1lx	1lx
Footcand.	209fcd	52fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,9m	5,8m	8,7m	11,6m	14,4m	21,7m	28,9m	43,3m	57,8m	72,2m	86,7m	115,5m	144,4m
Beam wid.	9,5ft	19,1ft	28,3ft	37,8ft	47,4ft	71,1ft	94,7ft	142,1ft	189,5ft	236,9ft	284,2ft	379ft	473,7ft

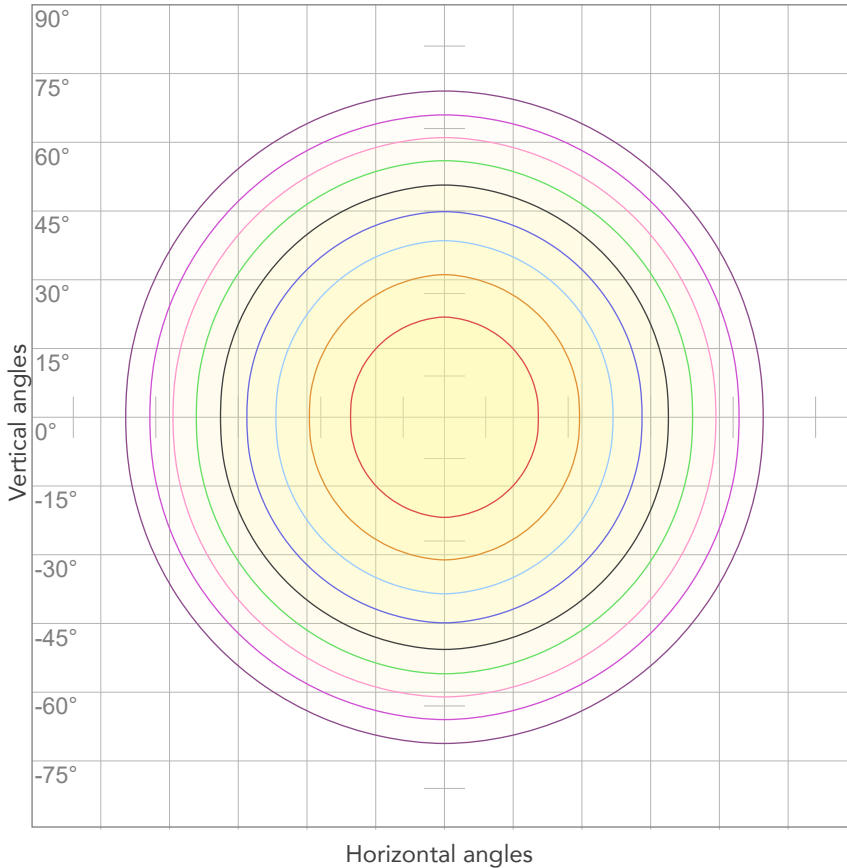
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,530A	111W	56lm/W

ISO CANDELA DIAGRAM



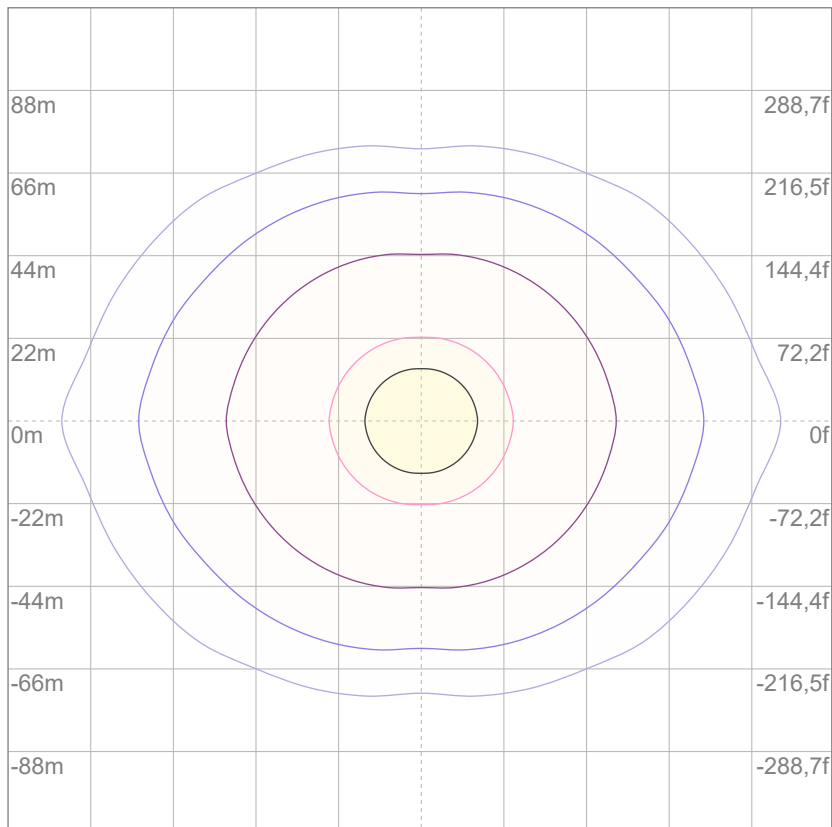
10%	225 cd
20%	449 cd
30%	674 cd
40%	899 cd
50%	1123 cd
60%	1348 cd
70%	1573 cd
80%	1797 cd

Conditions:

Number of c-planes: 4

Candela at center: 2247 cd

ISO LUX DIAGRAM



3%	0,674 lx
5%	1,12 lx
10%	2,25 lx
30%	6,74 lx
50%	11,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 22,5 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:

7642 lm

Peak candela output:

3114 cd

Light quality:

CRI: 93,5

Color temperature:

3176 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

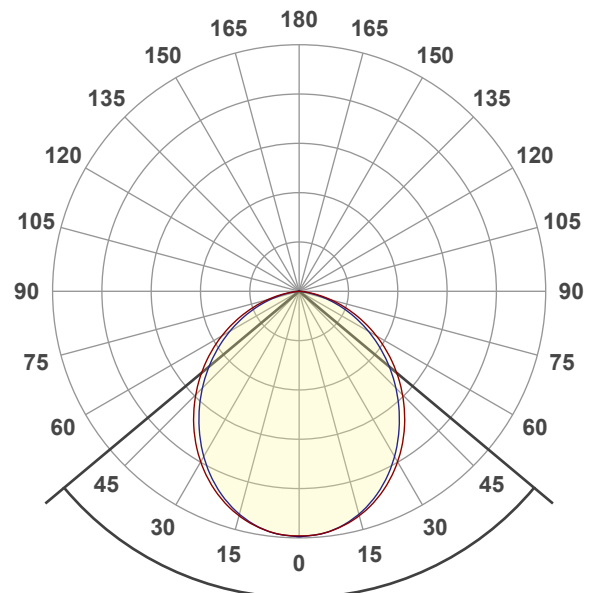
MEASUREMENT CONDITIONS:

Beam angle:
Filter MD

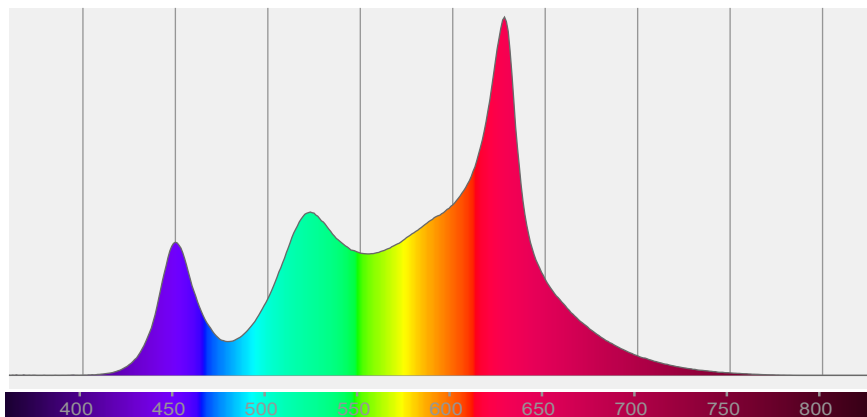
Target:
3200K HQ

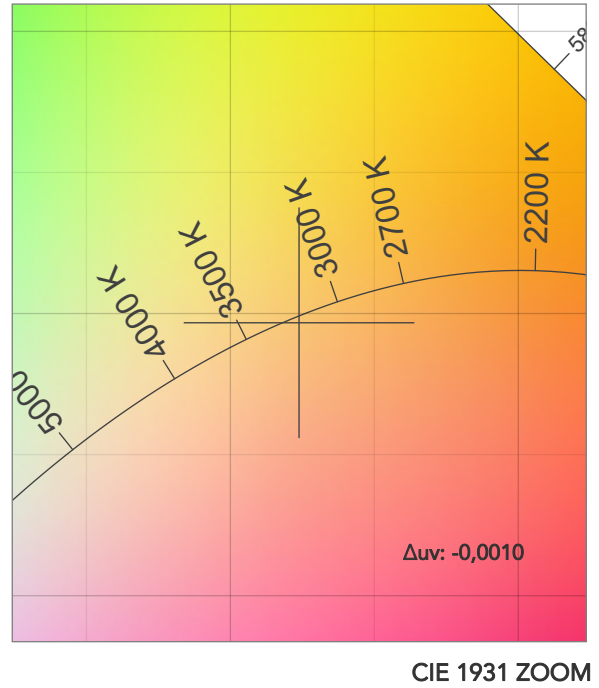
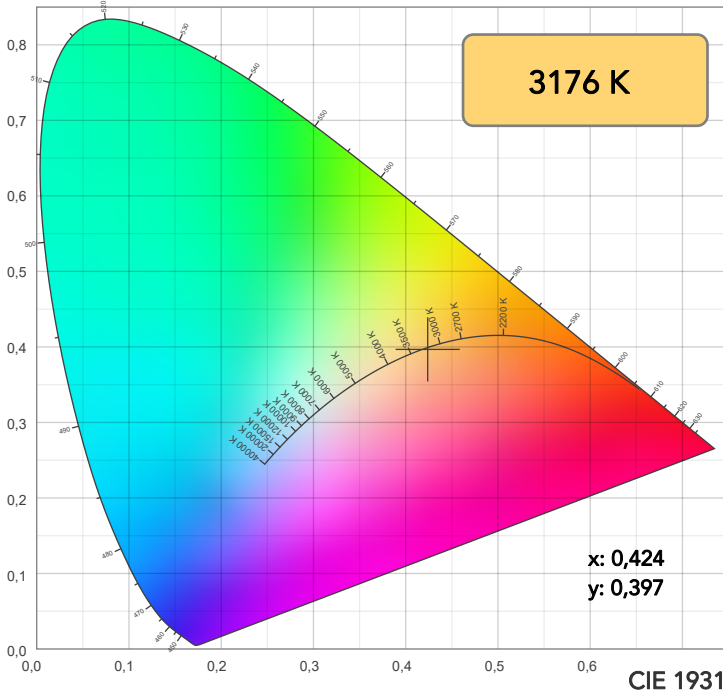
Operator:
Paolo Carvone

Date and time:
10/01/2022 13:11:53

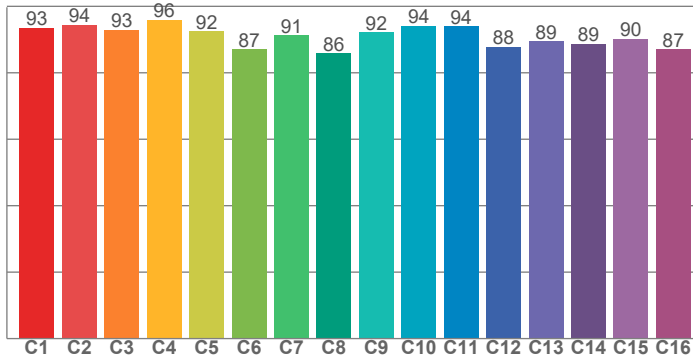


Spectra

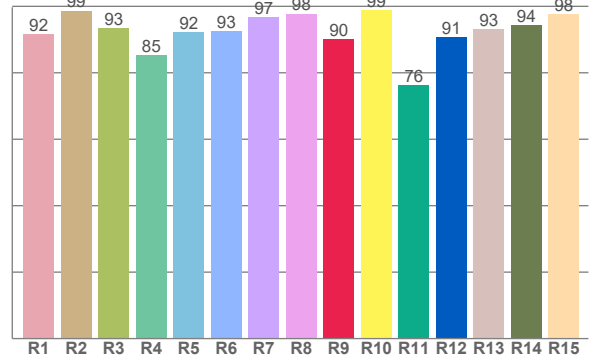




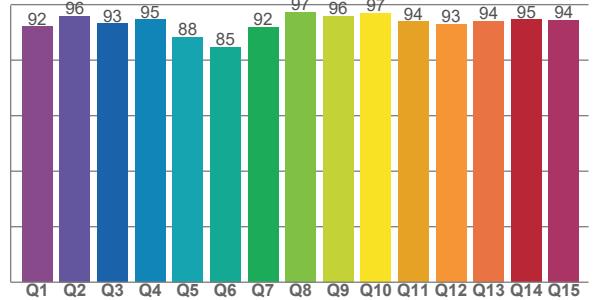
TM30: 91,8



CRI: 93,5 (R1-R8)



CQS: 92,5



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
91,5	98,7	93,4	85,2	92,2	92,5	96,8	97,8	90,1	98,8	76,3	90,8	93,0	94,2	97,5

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	94,5	92,9	96,0	92,4	87,1	91,3	85,9	92,2	94,2	93,9	87,8	89,4	88,8	90,2	87,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,1	95,9	93,2	94,7	88,3	84,7	91,9	97,4	96,0	96,9	93,9	92,9	94,1	94,6	94,5

COLOR PARAMETERS

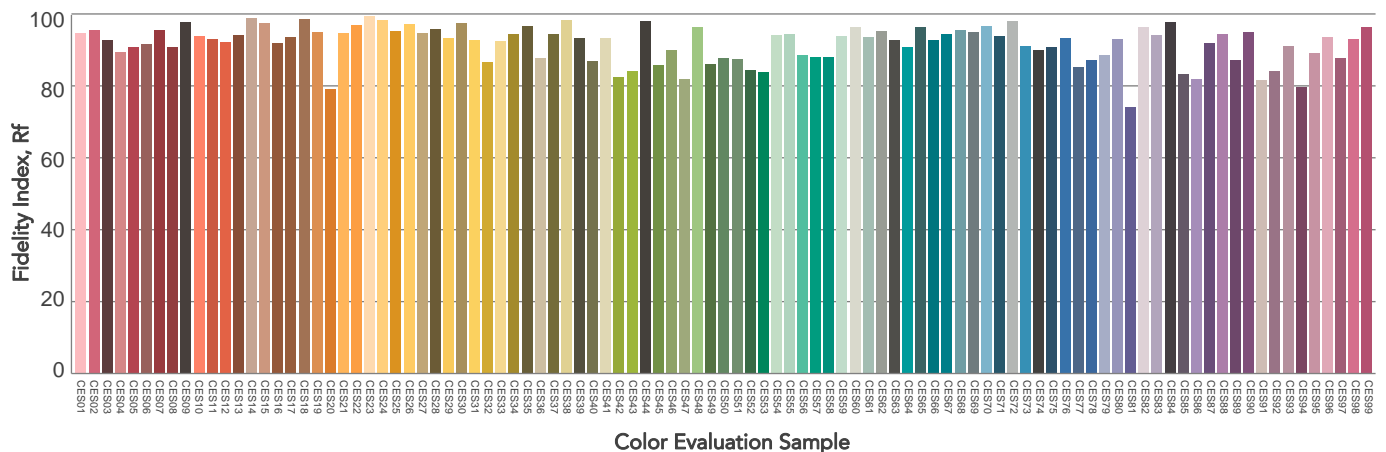
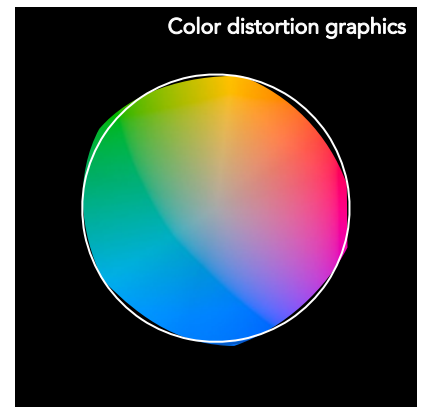
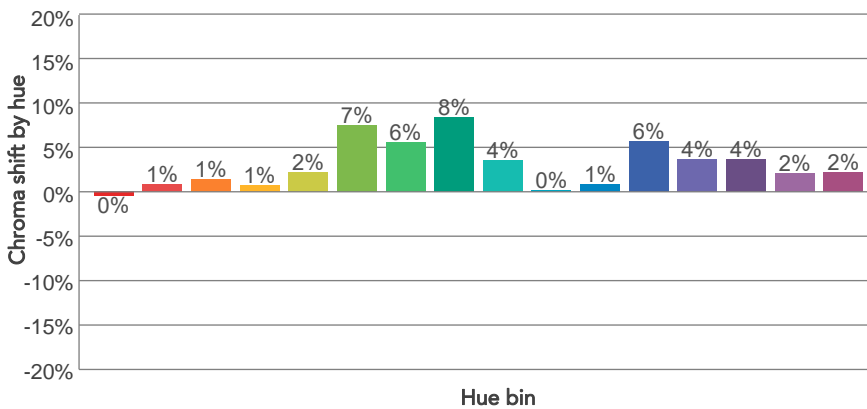
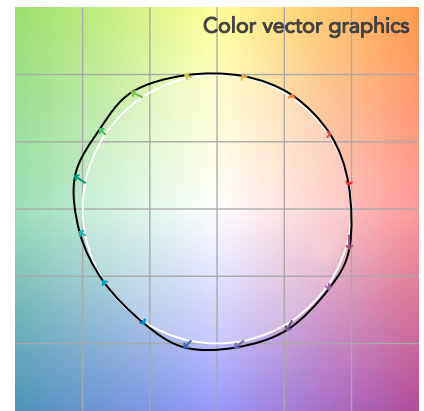
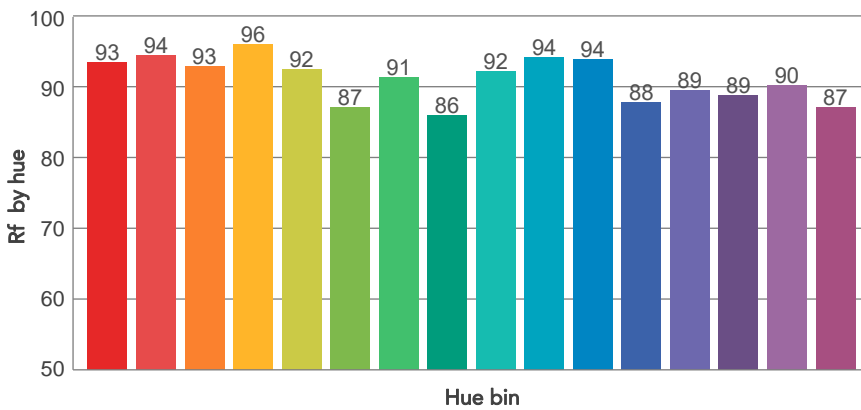
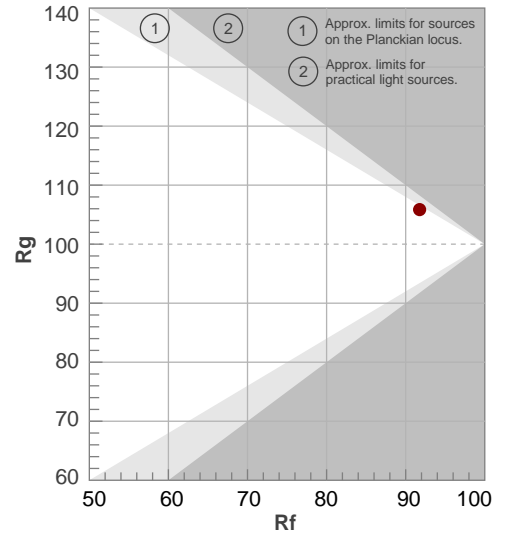
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3176 K	93,5	90,1	91,8	105,9	92,5	81	0,424	0,397	-0,0010

TM30 DETAILS

Rf 91,8
Fidelity index Rf

Rg 105,9
Gammut index

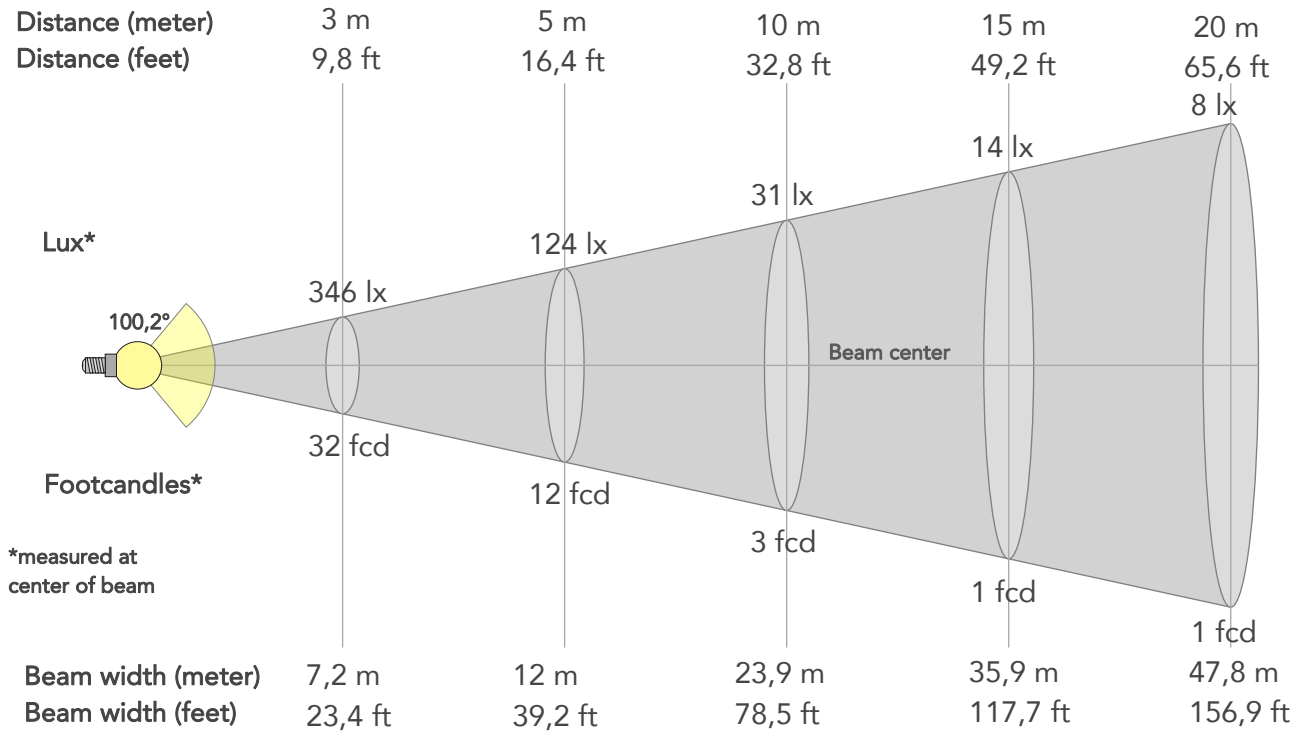
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	-1%
2	94	1%	-1%
3	93	1%	1%
4	96	1%	1%
5	92	2%	4%
6	87	7%	4%
7	91	6%	-1%
8	86	8%	-3%
9	92	4%	-3%
10	94	0%	-2%
11	94	1%	2%
12	88	6%	-4%
13	89	4%	-7%
14	89	4%	-7%
15	90	2%	-3%
16	87	2%	-10%



BEAM DETAILS



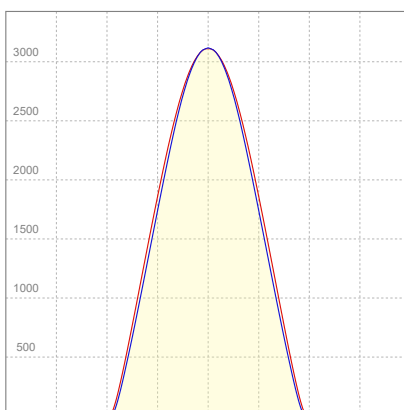
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
100,2°	153,2°	165,9°	82,7%	58,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3110lx	777lx	346lx	194lx	124lx	55lx	31lx	14lx	8lx	5lx	3lx	2lx	1lx
Footcand.	289fcd	72fcd	32fcd	18fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,4m	4,8m	7,2m	9,6m	12m	17,9m	23,9m	35,9m	47,8m	59,8m	71,8m	95,7m	119,6m
Beam wid.	7,9ft	15,8ft	23,4ft	31,3ft	39,2ft	58,8ft	78,5ft	117,7ft	156,9ft	196,2ft	235,4ft	313,9ft	392,3ft

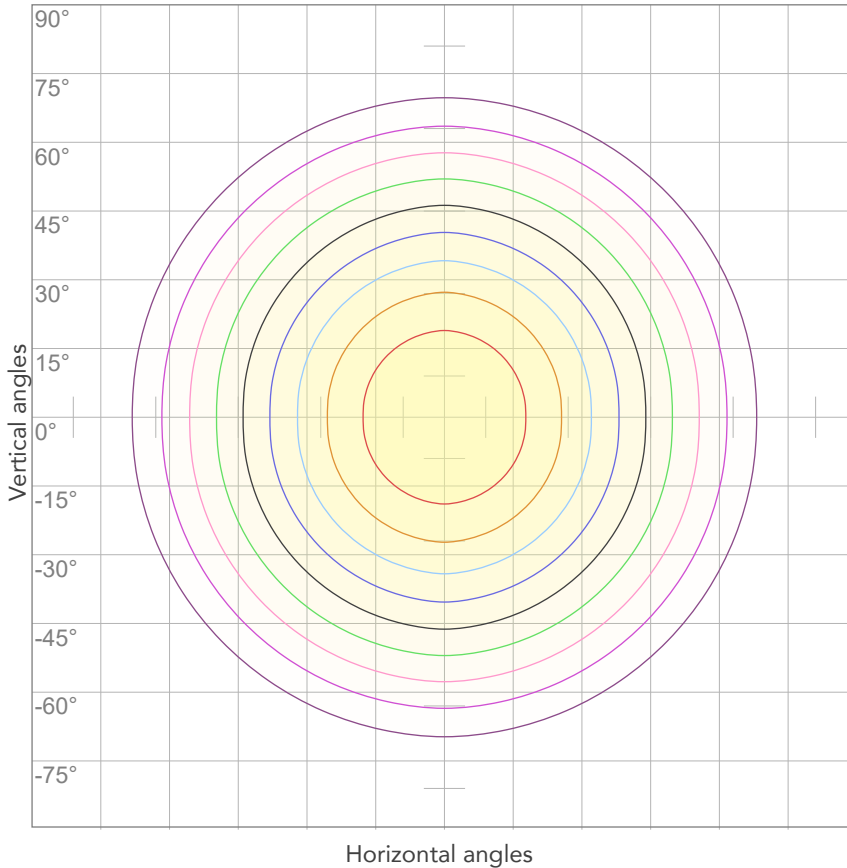
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,549A	114,7W	67lm/W

ISO CANDELA DIAGRAM



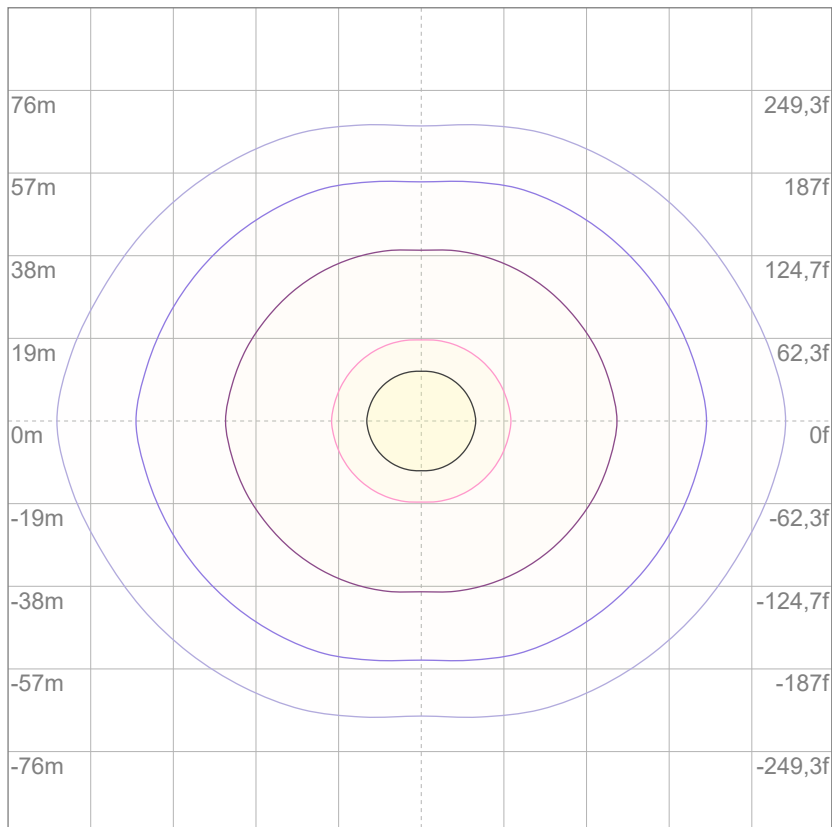
10%	311 cd
20%	622 cd
30%	933 cd
40%	1244 cd
50%	1555 cd
60%	1866 cd
70%	2177 cd
80%	2488 cd

Conditions:

Number of c-planes: 4

Candela at center: 3110 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,933 lx
5%	1,55 lx
10%	3,11 lx
30%	9,33 lx
50%	15,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 31,1 lx

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



Total lumen output:

7434 lm

Peak candela output:

3029 cd

Light quality:

CRI: 93,5

Color temperature:

3217 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

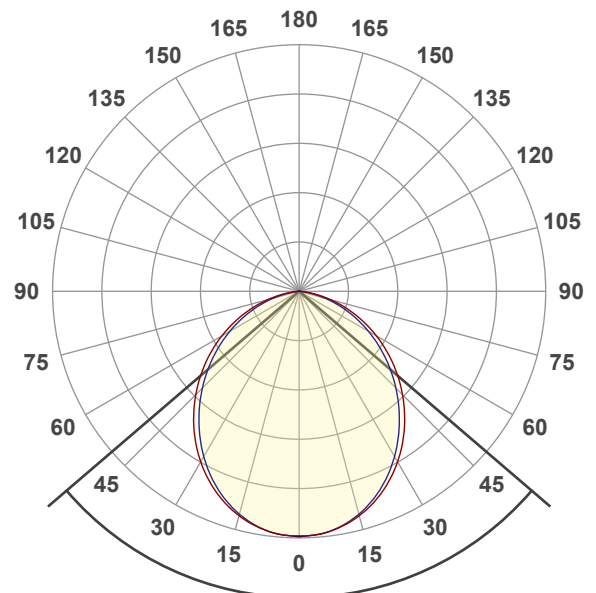
MEASURAMENT CONDITIONS:

Beam angle:
Filter LD

Target:
3200K HQ

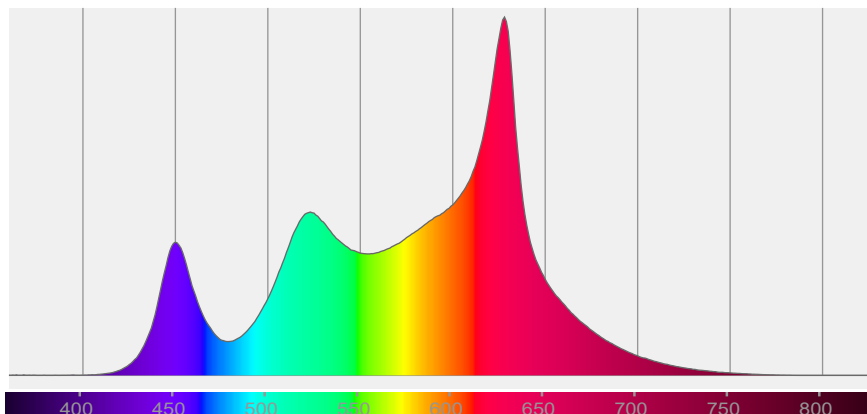
Operator:
Paolo Carvone

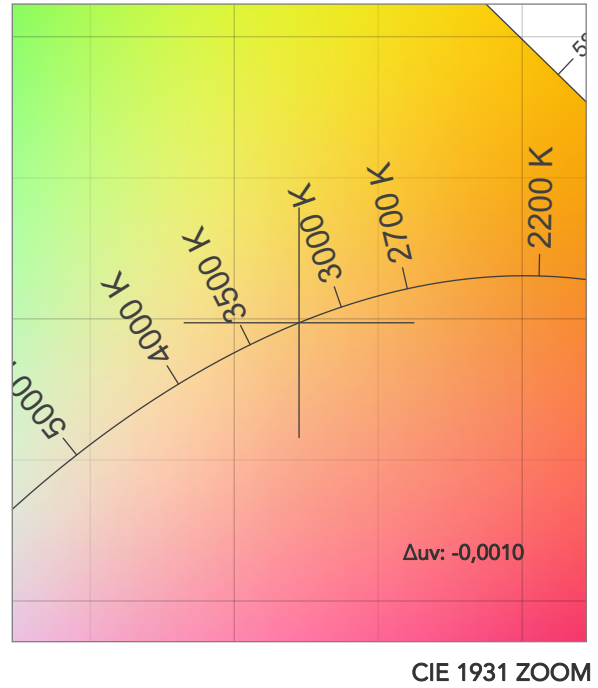
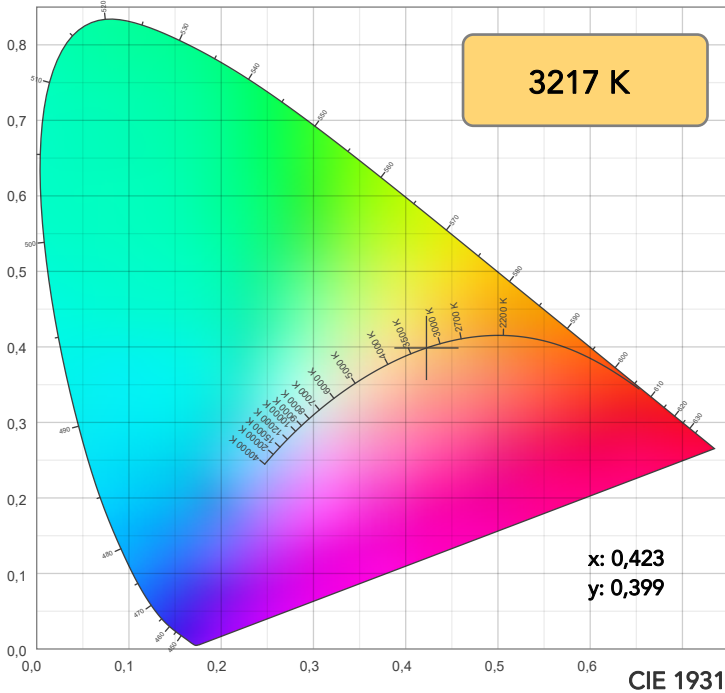
Date and time:
10/01/2022 13:11:53



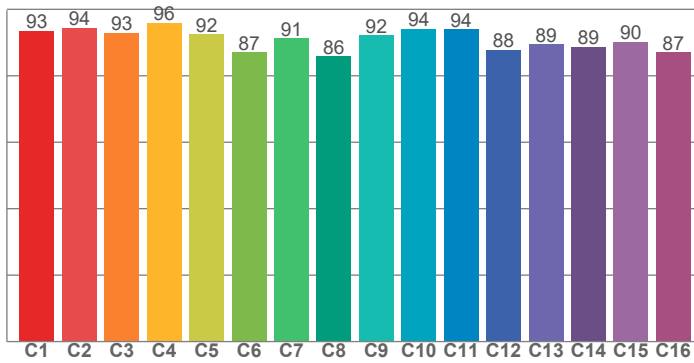
Beam angle 50%: 98,8°
Field angle 10%: 153,2°
Cut off angle 2.5%: 165,9°

Spectra

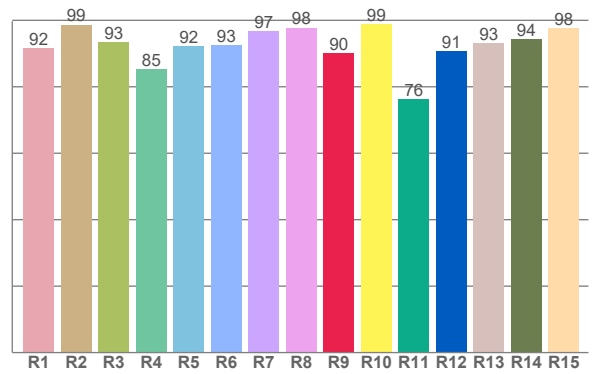




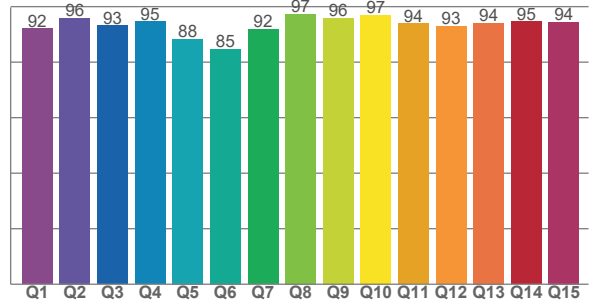
TM30: 91,8



CRI: 93,5 (R1-R8)



CQS: 92,5



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
91,5	98,7	93,4	85,2	92,2	92,5	96,8	97,8	90,1	98,8	76,3	90,8	93,0	94,2	97,5

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	94,5	92,9	96,0	92,4	87,1	91,3	85,9	92,2	94,2	93,9	87,8	89,4	88,8	90,2	87,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,1	95,9	93,2	94,7	88,3	84,7	91,9	97,4	96,0	96,9	93,9	92,9	94,1	94,6	94,5

COLOR PARAMETERS

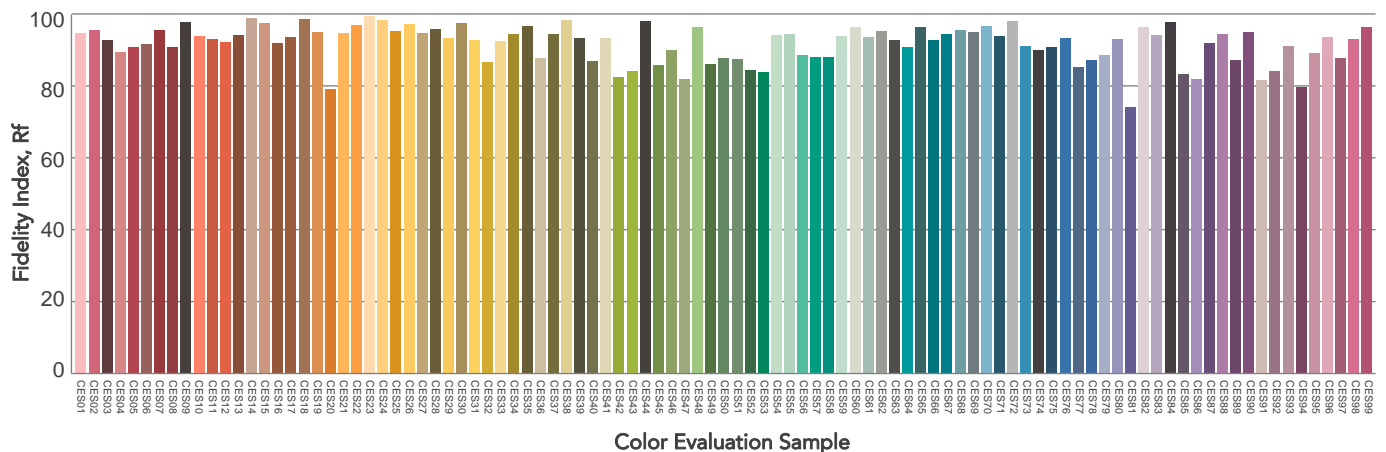
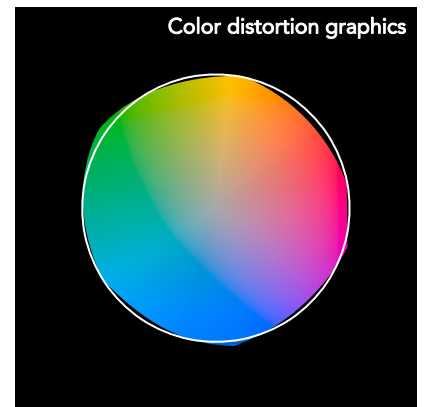
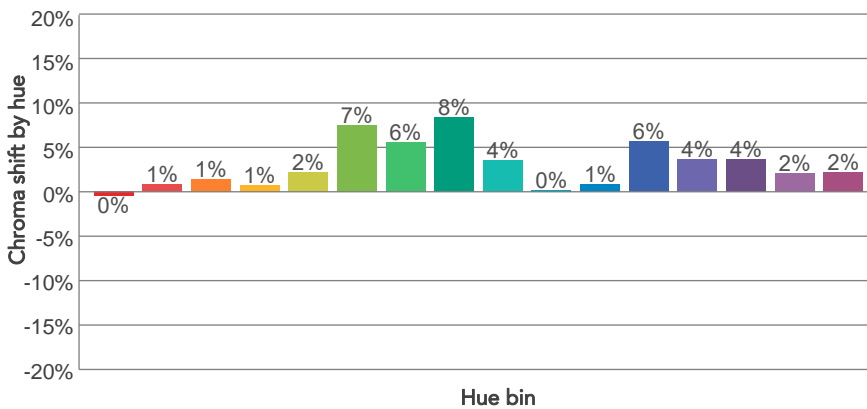
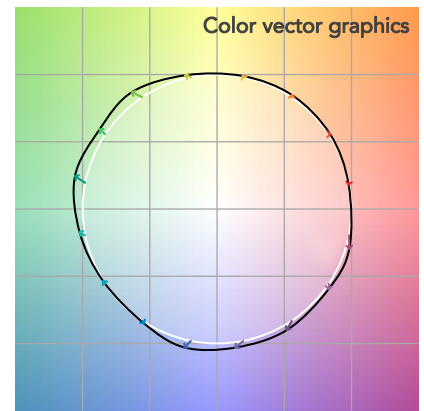
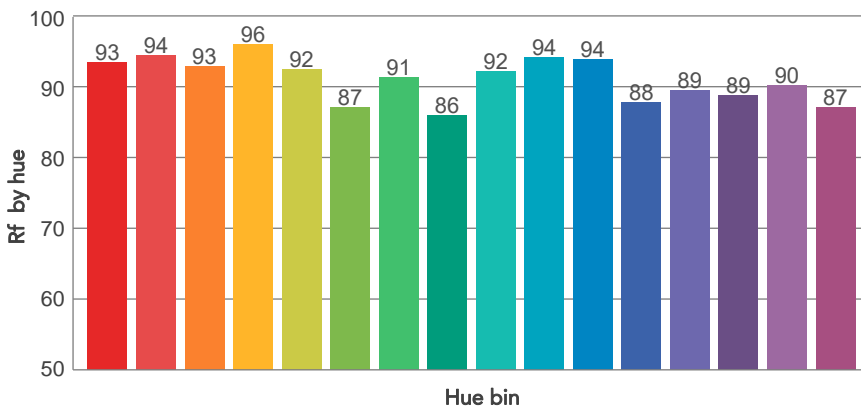
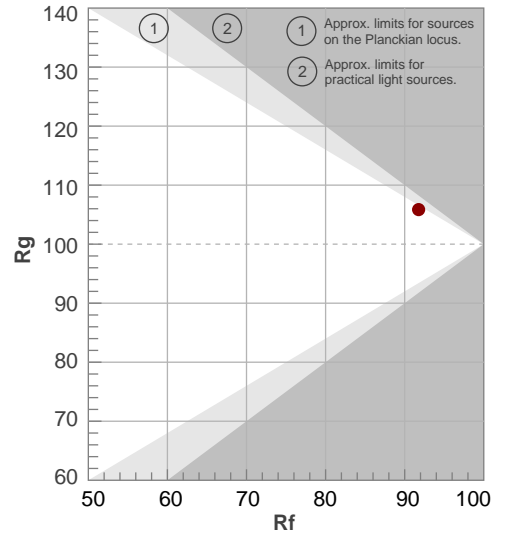
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3217 K	93,5	90,1	91,8	105,9	92,5	82	0,423	0,399	-0,0010

TM30 DETAILS

Rf 91,8
Fidelity index Rf

Rg 105,9
Gammut index

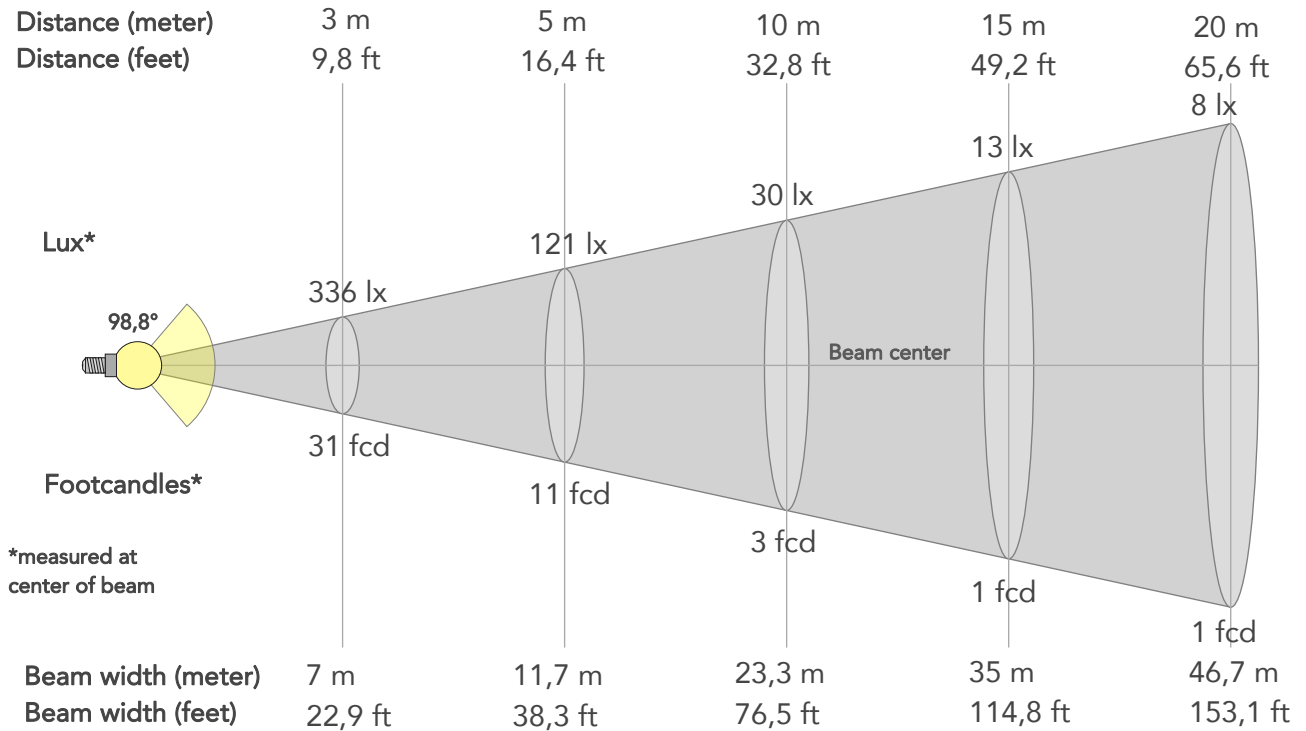
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	-1%
2	94	1%	-1%
3	93	1%	1%
4	96	1%	1%
5	92	2%	4%
6	87	7%	4%
7	91	6%	-1%
8	86	8%	-3%
9	92	4%	-3%
10	94	0%	-2%
11	94	1%	2%
12	88	6%	-4%
13	89	4%	-7%
14	89	4%	-7%
15	90	2%	-3%
16	87	2%	-10%



BEAM DETAILS



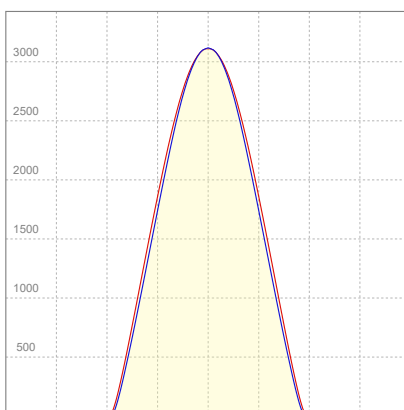
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
98,8°	153,2°	165,9°	82,7%	58,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3025lx	756lx	336lx	189lx	121lx	54lx	30lx	13lx	8lx	5lx	3lx	2lx	1lx
Footcand.	281fcd	70fcd	31fcd	18fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,3m	4,7m	7m	9,3m	11,7m	17,5m	23,3m	35m	46,7m	58,3m	70m	93,3m	116,7m
Beam wid.	7,7ft	15,4ft	22,9ft	30,6ft	38,3ft	57,4ft	76,5ft	114,8ft	153,1ft	191,3ft	229,6ft	306,1ft	382,7ft

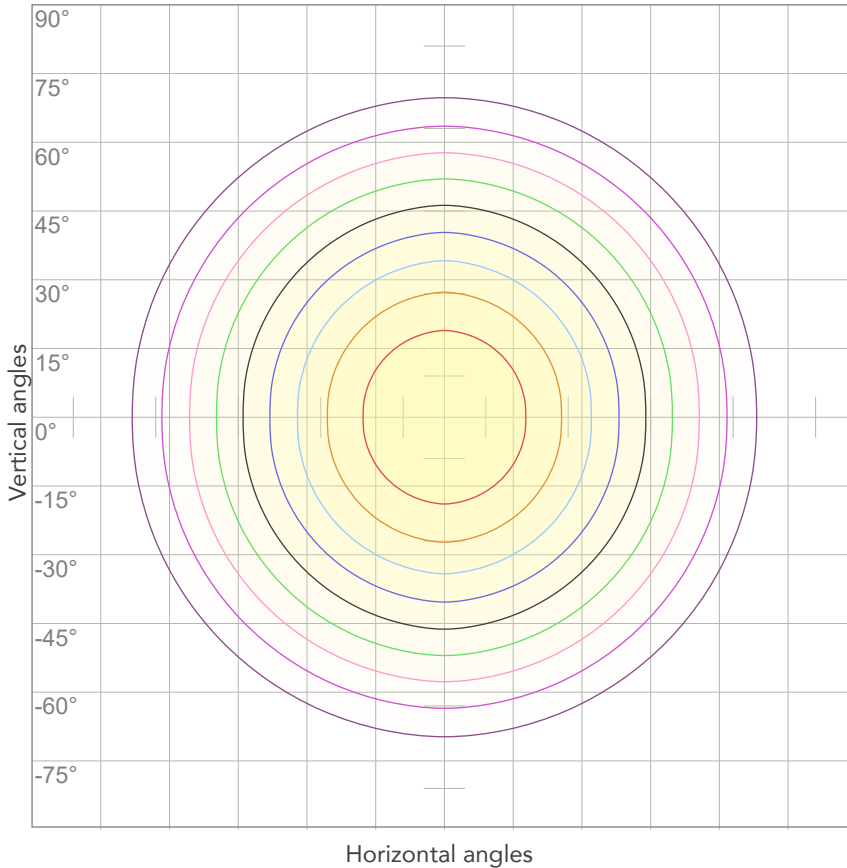
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,549A	114,7W	65lm/W

ISO CANDELA DIAGRAM



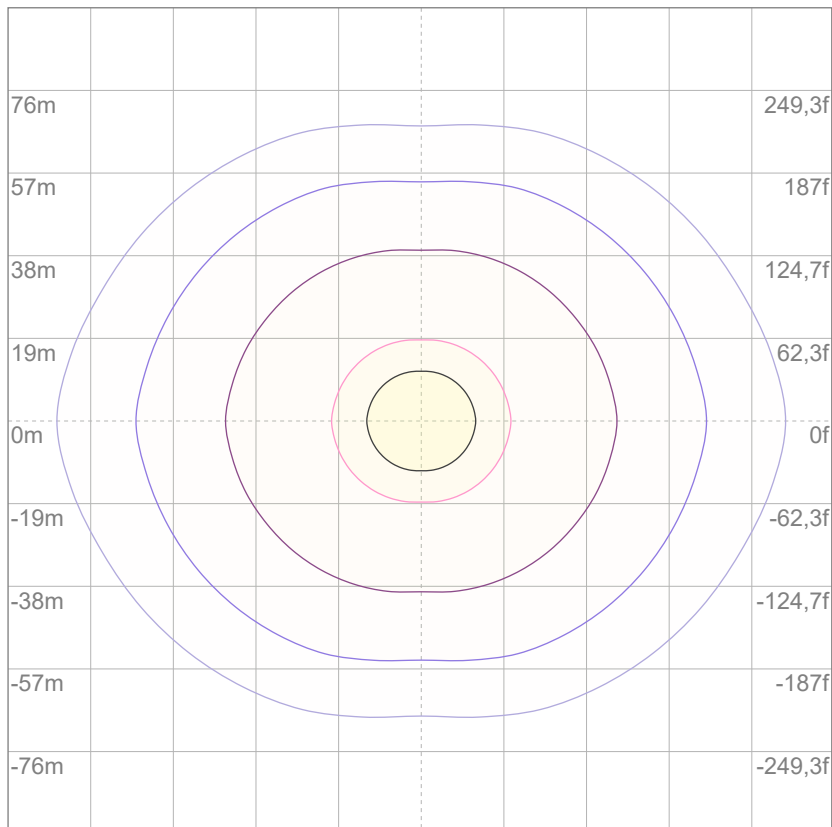
10%	303 cd
20%	605 cd
30%	908 cd
40%	1210 cd
50%	1513 cd
60%	1815 cd
70%	2118 cd
80%	2420 cd

Conditions:

Number of c-planes: 4

Candela at center: 3025 cd

ISO LUX DIAGRAM



3%	0,908 lx
5%	1,51 lx
10%	3,03 lx
30%	9,08 lx
50%	15,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 30,3 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:

6557 lm

Peak candela output:

4257 cd

Light quality:

CRI: 94,1

Color temperature:

3227 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

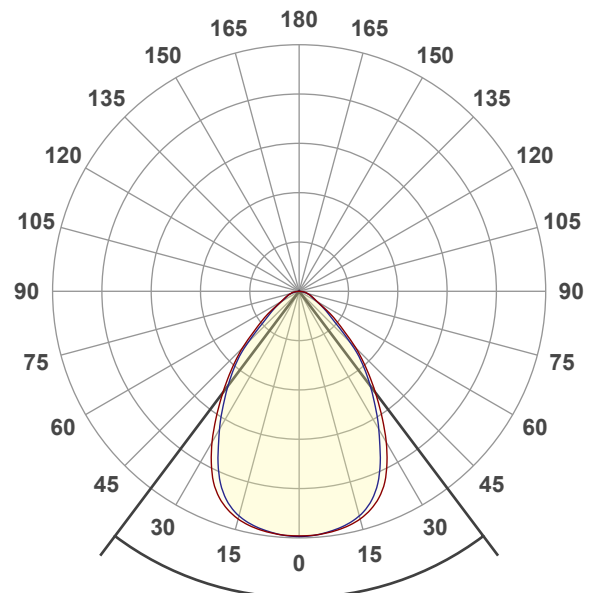
MEASURAMENT CONDITIONS:

Beam angle:
Filter INT

Target:
3200K HQ

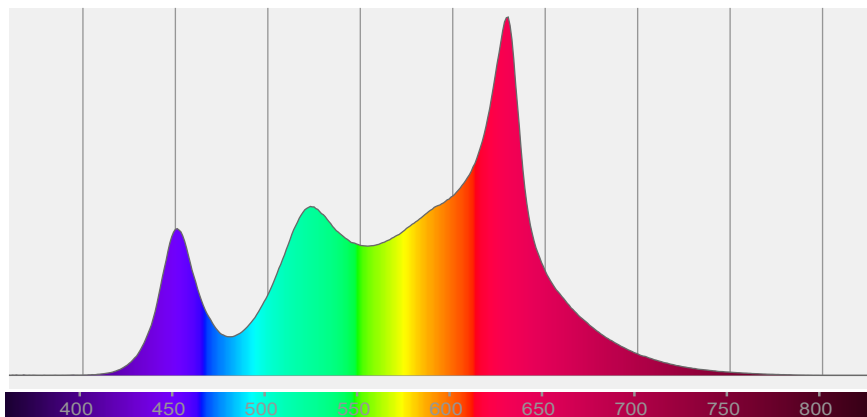
Operator:
Paolo Carvone

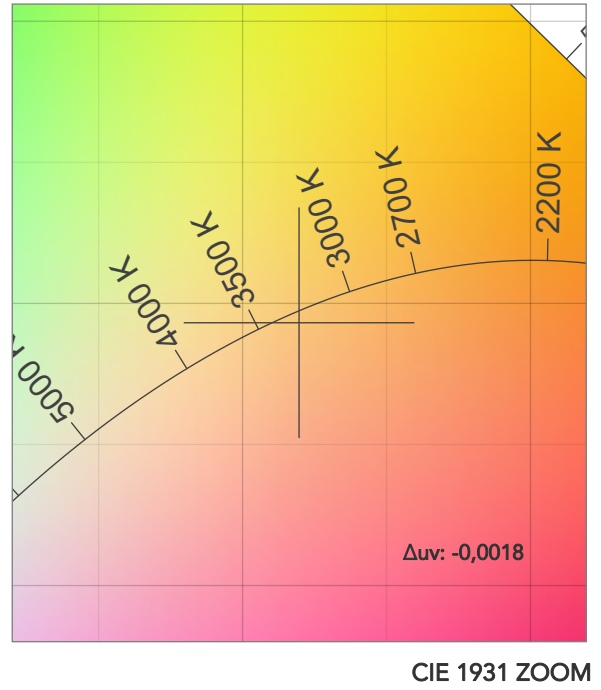
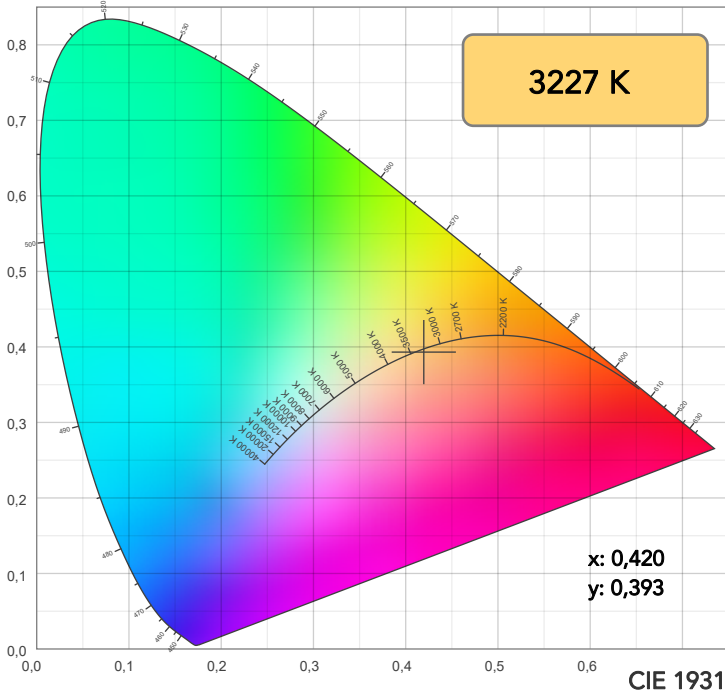
Date and time:
10/01/2022 14:50:28



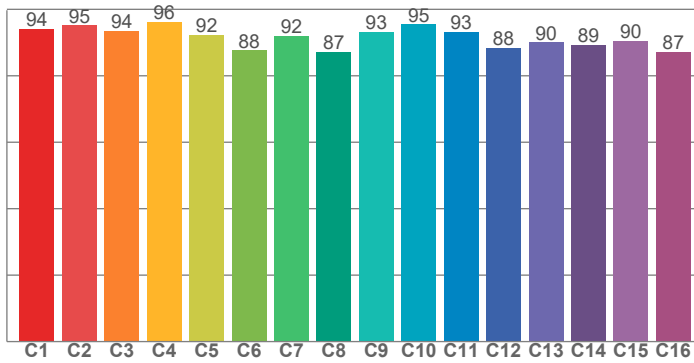
Beam angle 50%: 73,9°
Field angle 10%: 116,3°
Cut off angle 2.5%: 157,9°

Spectra

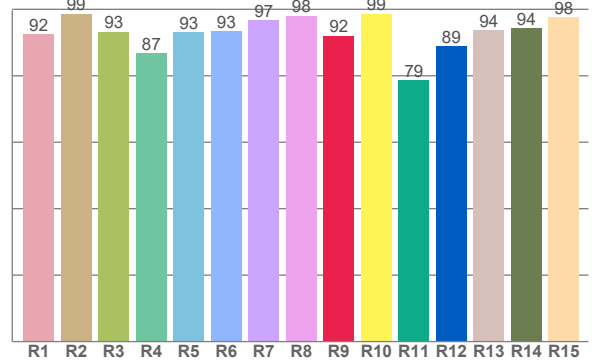




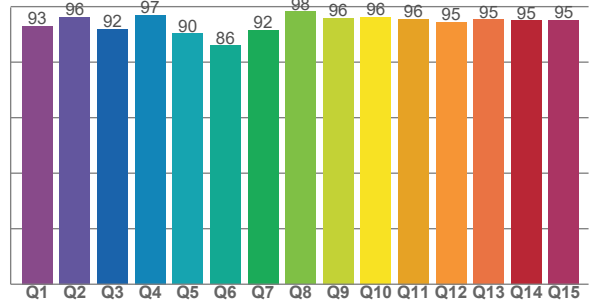
TM30: 92,2



CRI: 94,1 (R1-R8)



CQS: 93,2



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,4	98,7	93,3	86,7	93,1	93,3	96,8	98,1	92,1	98,6	78,6	88,8	93,7	94,3	97,6

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
94,1	95,2	93,5	96,3	92,2	87,7	91,9	87,3	93,2	95,4	93,2	88,4	90,1	89,3	90,5	87,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,1	96,3	91,8	97,0	90,4	86,0	91,5	98,2	95,9	96,2	95,5	94,5	95,4	94,9	95,1

COLOR PARAMETERS

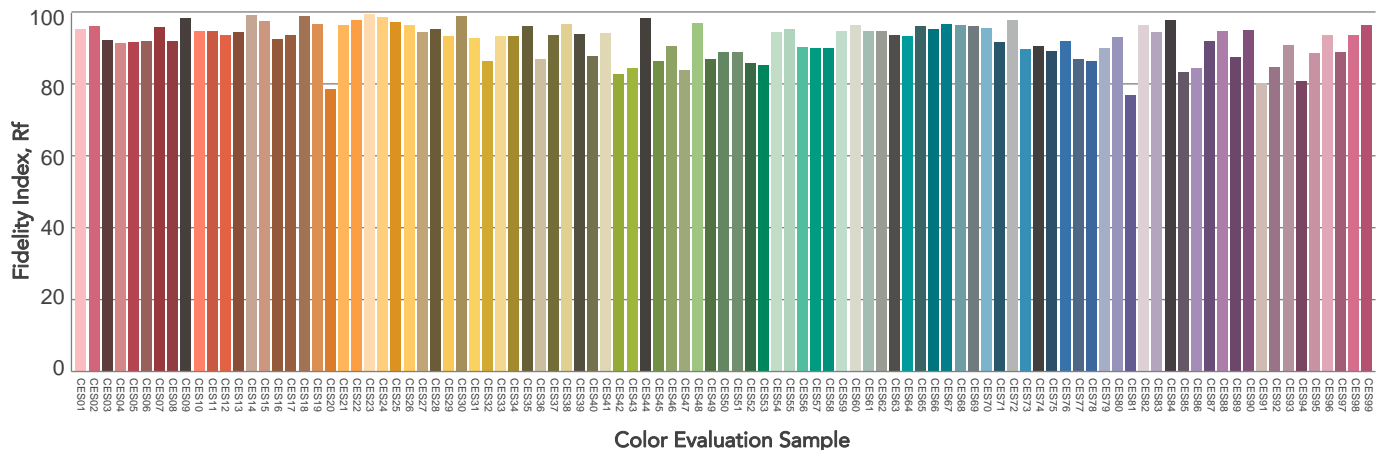
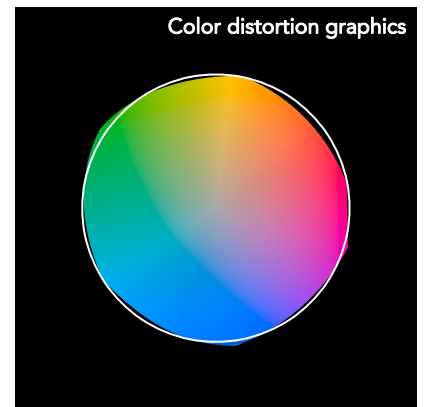
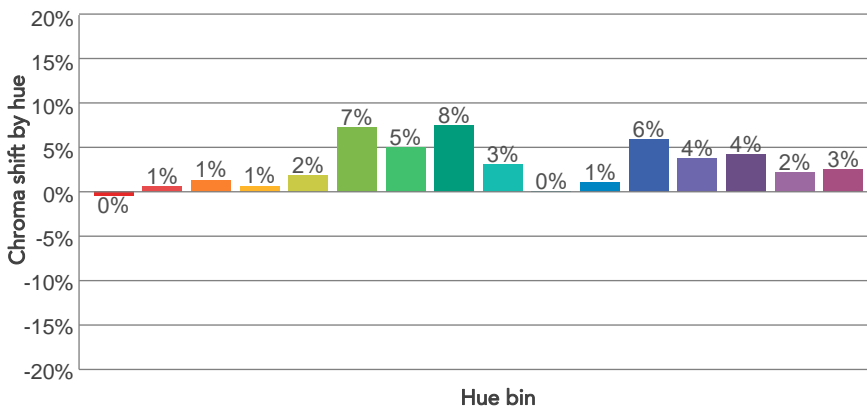
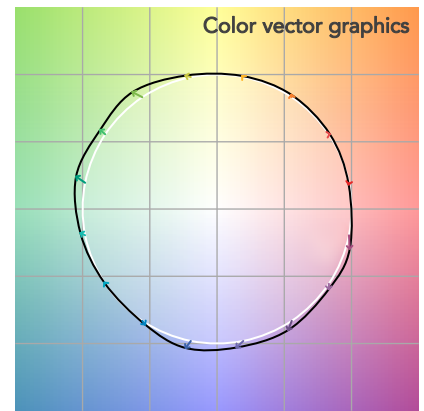
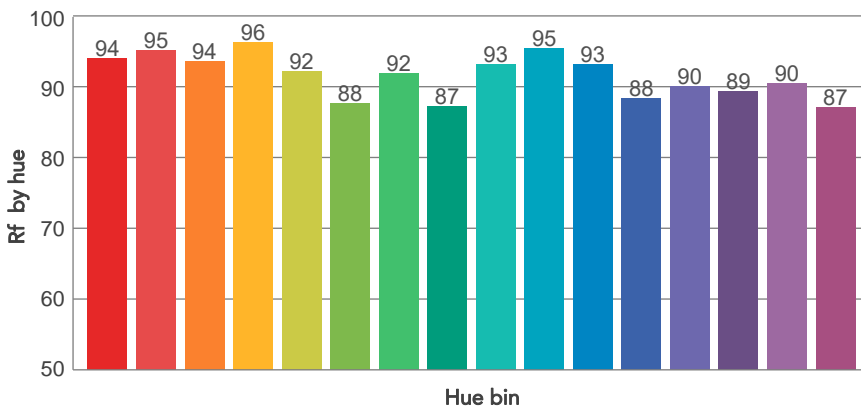
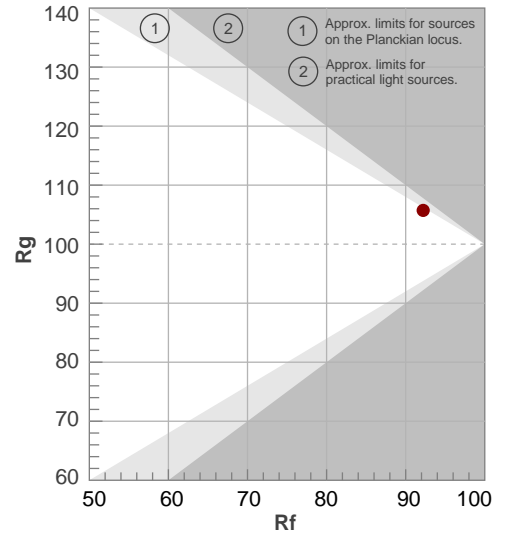
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3227 K	94,1	92,1	92,2	105,7	93,2	83	0,420	0,393	-0,0018

TM30 DETAILS

Rf 92,2
Fidelity index Rf

Rg 105,7
Gammut index

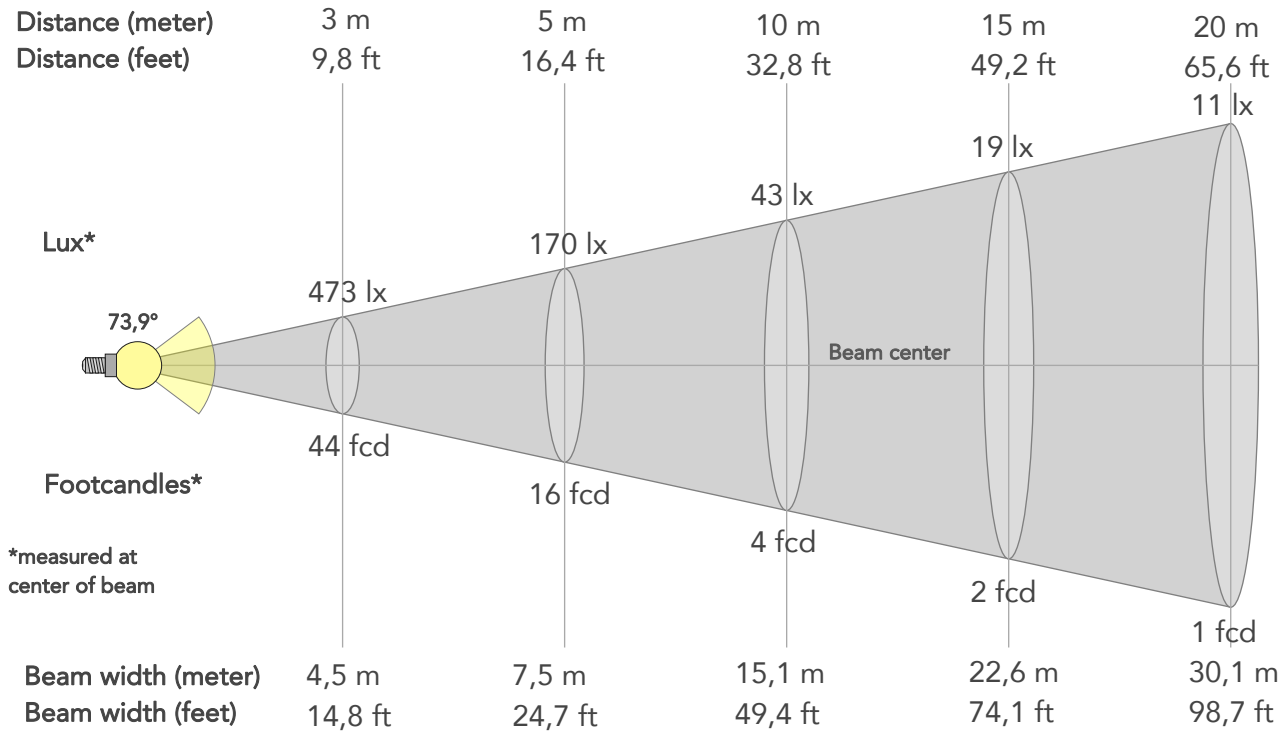
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-1%
2	95	1%	0%
3	94	1%	1%
4	96	1%	1%
5	92	2%	4%
6	88	7%	4%
7	92	5%	-1%
8	87	8%	-3%
9	93	3%	-2%
10	95	0%	-1%
11	93	1%	3%
12	88	6%	-3%
13	90	4%	-6%
14	89	4%	-6%
15	90	2%	-3%
16	87	3%	-10%



BEAM DETAILS



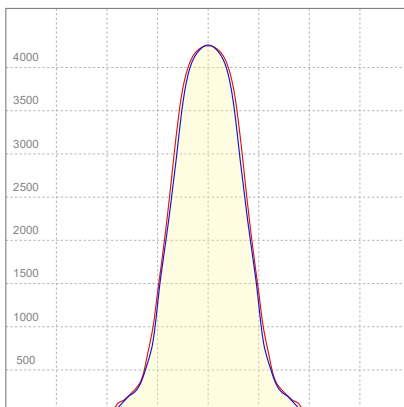
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
73,9°	116,3°	157,9°	93,1%	78,6%



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	4253lx	1063lx	473lx	266lx	170lx	76lx	43lx	19lx	11lx	7lx	5lx	3lx	2lx
Footcand.	395fcd	99fcd	44fcd	25fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,5m	6m	7,5m	11,3m	15,1m	22,6m	30,1m	37,6m	45,2m	60,2m	75,3m
Beam wid.	5ft	9,9ft	14,8ft	19,7ft	24,7ft	37ft	49,4ft	74,1ft	98,7ft	123,4ft	148,1ft	197,5ft	246,8ft

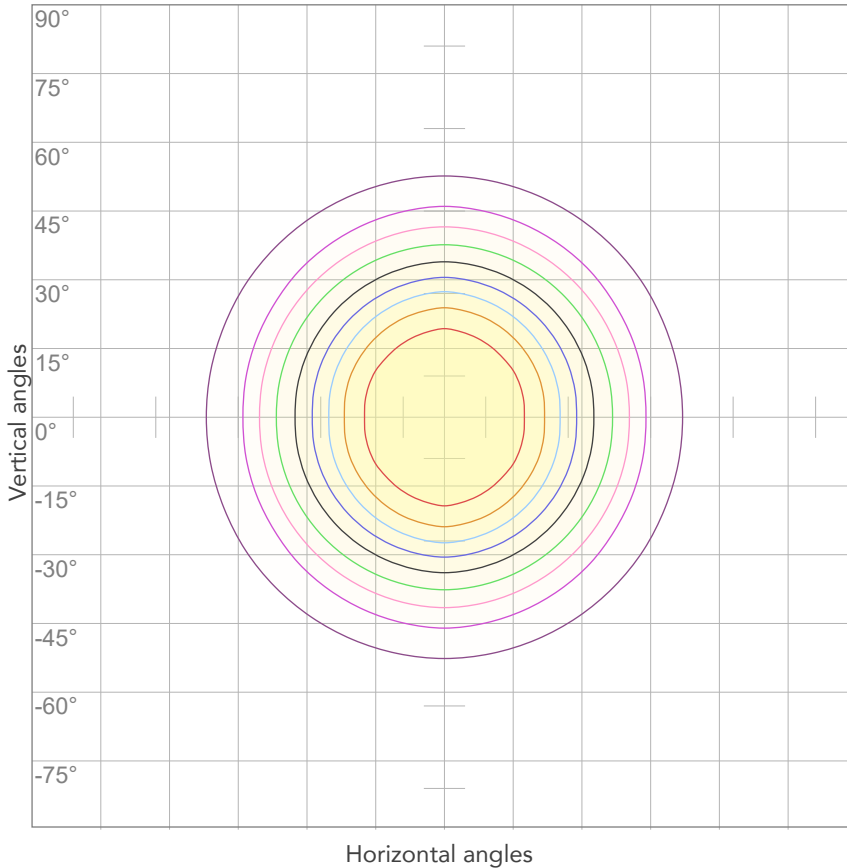
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,530A	111,7W	59lm/W

ISO CANDELA DIAGRAM



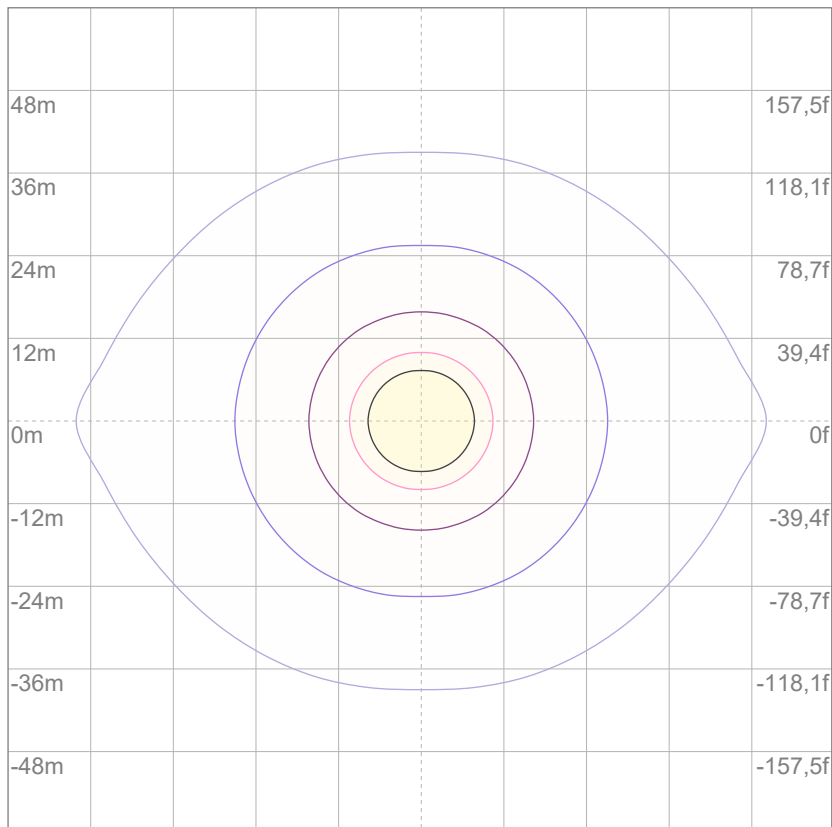
10%	425 cd
20%	851 cd
30%	1276 cd
40%	1701 cd
50%	2127 cd
60%	2552 cd
70%	2977 cd
80%	3403 cd

Conditions:

Number of c-planes: 4

Candela at center: 4253 cd

ISO LUX DIAGRAM



3%	1,28 lx
5%	2,13 lx
10%	4,25 lx
30%	12,8 lx
50%	21,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 42,5 lx

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



Total lumen output:

6226 lm

Peak candela output:

2261 cd

Light quality:

CRI: 93,1

Color temperature:

4128 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

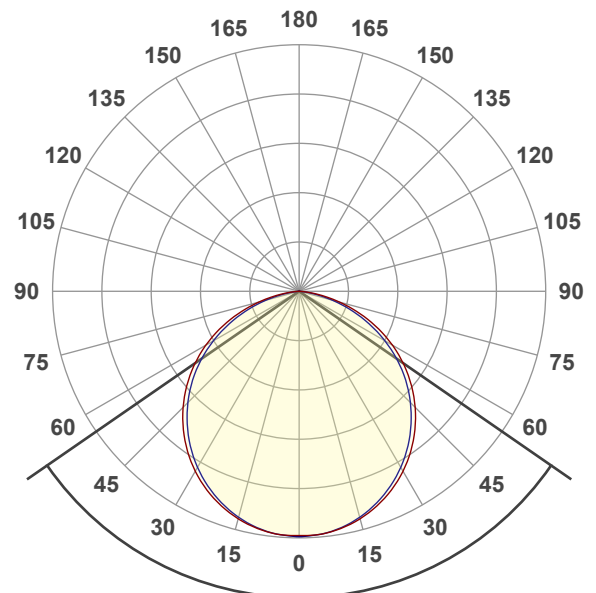
MEASURAMENT CONDITIONS:

Beam angle:
Filter HD

Target:
4000K HQ

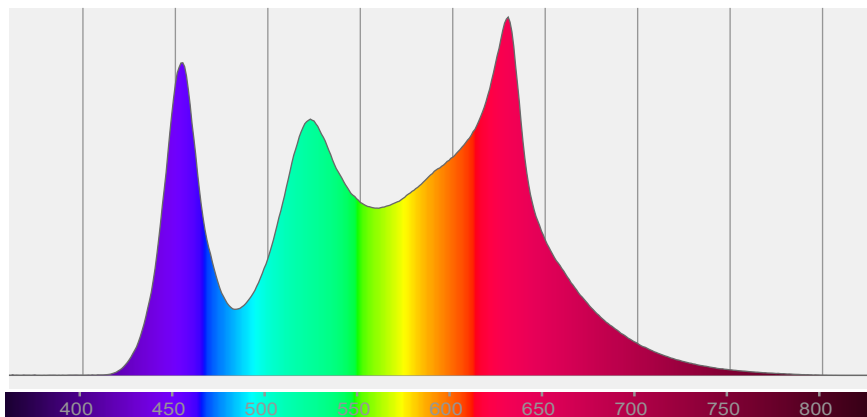
Operator:
Paolo Carvone

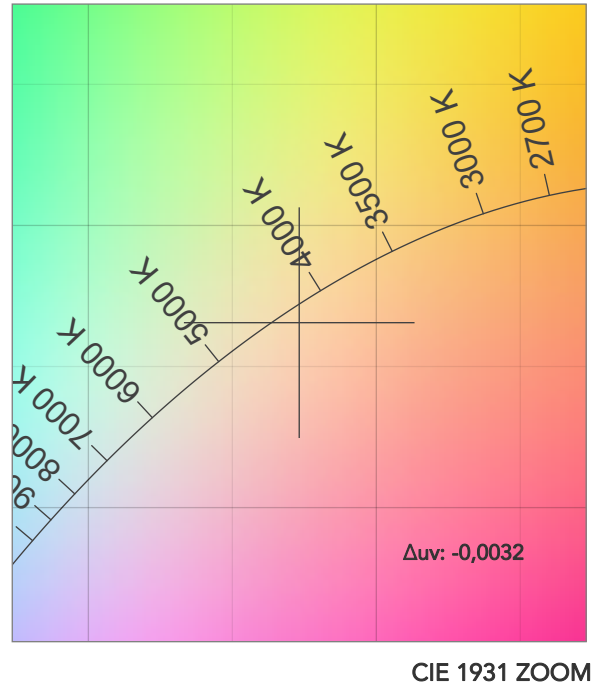
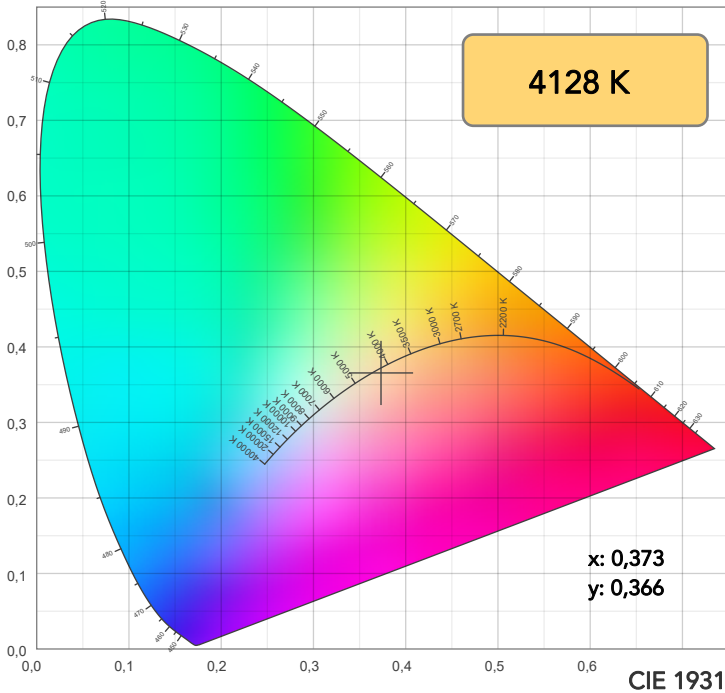
Date and time:
10/01/2022 15:44:08



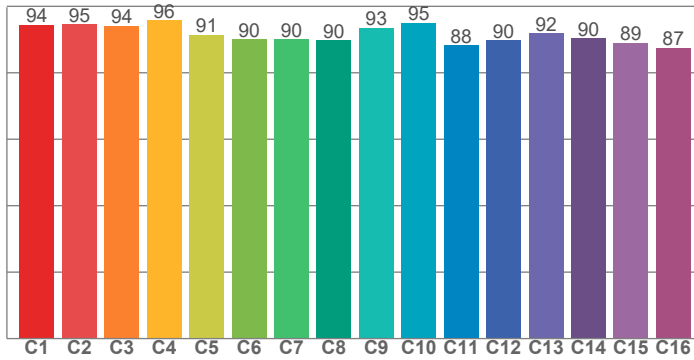
Beam angle 50%: 110,7°
Field angle 10%: 156,7°
Cut off angle 2.5%: 167,6°

Spectra

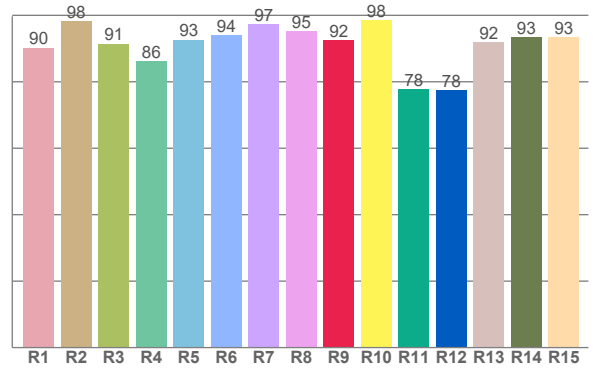




TM30: 91,9



CRI: 93,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
90,2	98,2	91,4	86,2	92,7	94,0	97,3	95,1	92,5	98,5	77,8	77,6	91,9	93,4	93,4

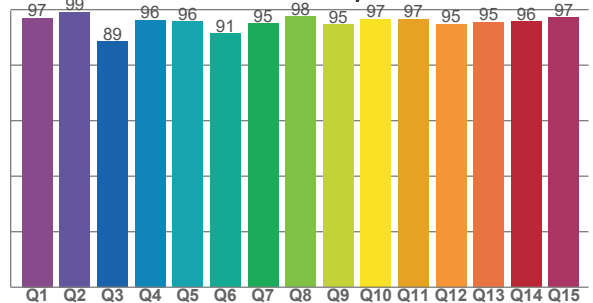
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,0	99,1	88,5	96,3	95,7	91,4	95,0	97,5	94,6	96,6	96,7	94,9	95,5	95,7	97,2

CQS: 94,8



COLOR PARAMETERS

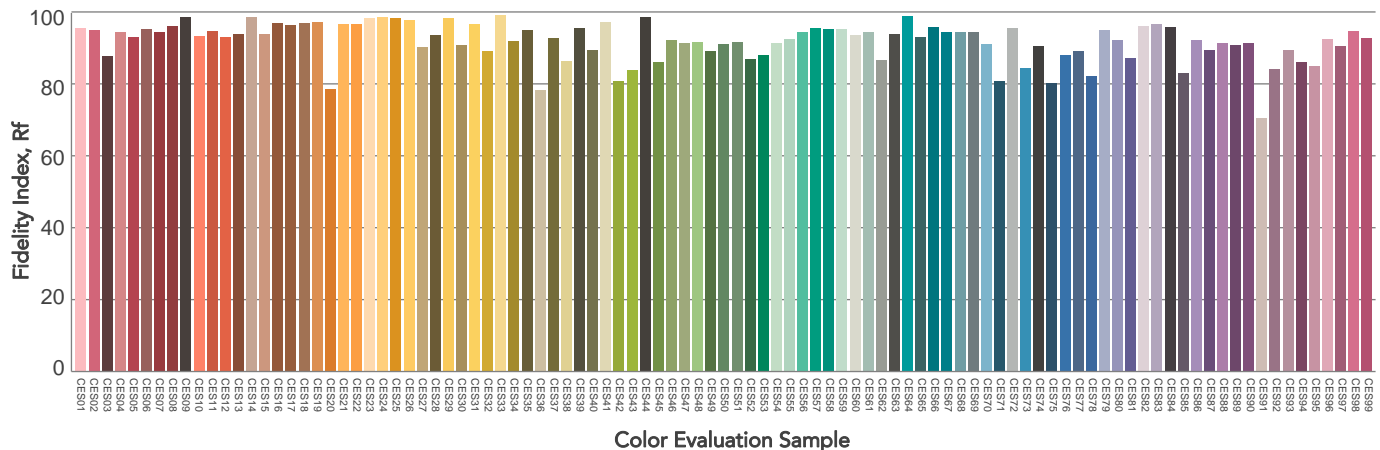
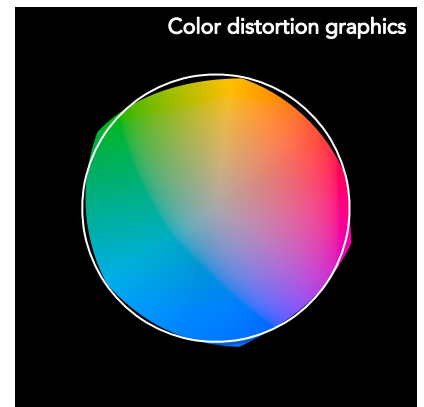
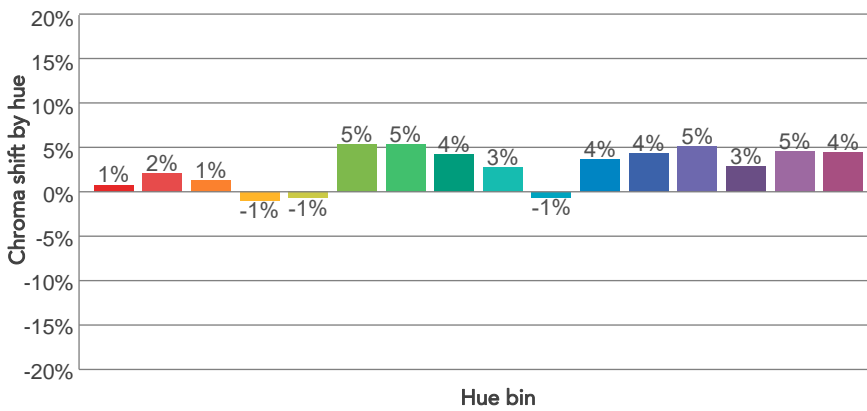
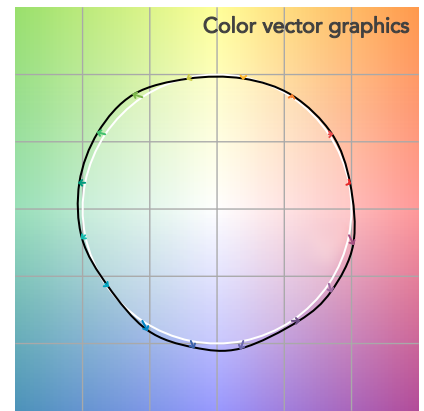
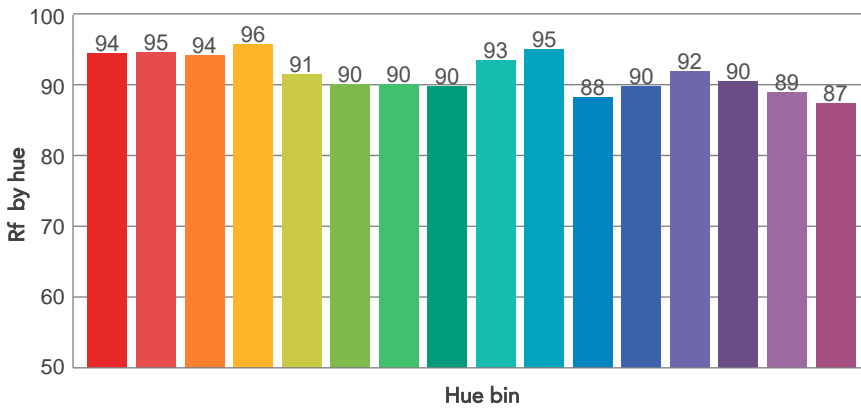
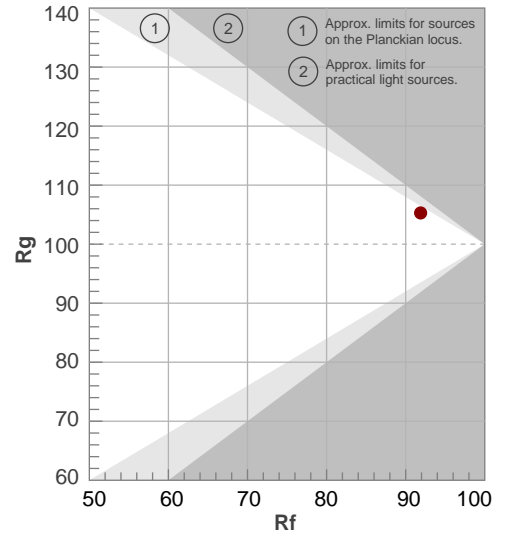
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4128 K	93,1	92,5	91,9	105,3	94,8	88	0,373	0,366	-0,0032

TM30 DETAILS

Rf 91,9
Fidelity index Rf

Rg 105,3
Gammut index

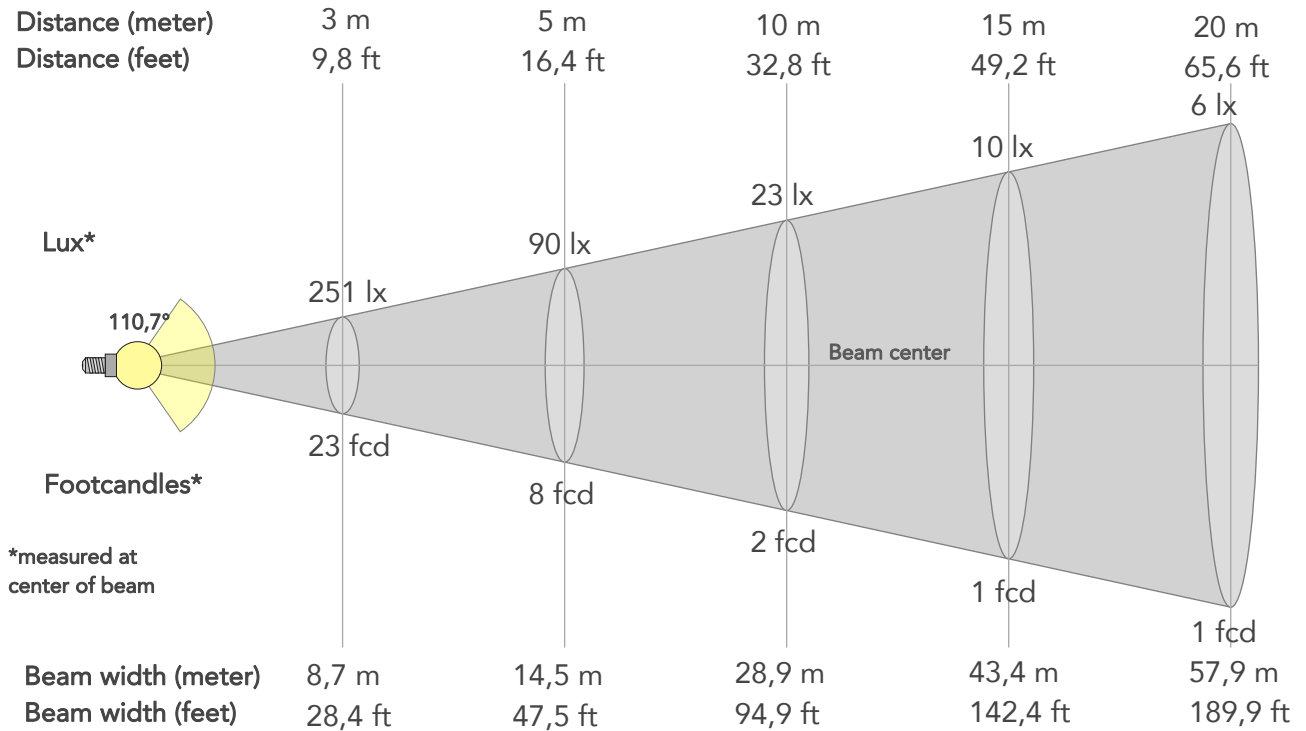
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	95	2%	-1%
3	94	1%	1%
4	96	-1%	0%
5	91	-1%	3%
6	90	5%	4%
7	90	5%	2%
8	90	4%	1%
9	93	3%	2%
10	95	-1%	2%
11	88	4%	7%
12	90	4%	3%
13	92	5%	-3%
14	90	3%	4%
15	89	5%	-4%
16	87	4%	-6%



BEAM DETAILS



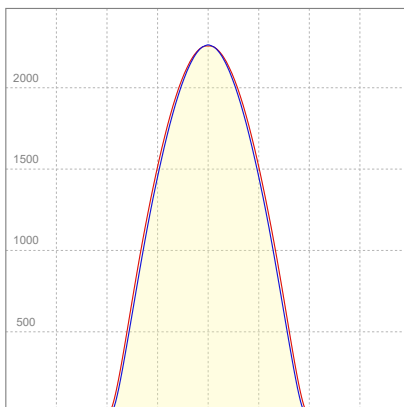
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
110,7°	156,7°	167,6°	80,6%	55,1%



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	2258lx	564lx	251lx	141lx	90lx	40lx	23lx	10lx	6lx	4lx	3lx	1lx	1lx
Footcand.	210fcd	52fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,9m	5,8m	8,7m	11,6m	14,5m	21,7m	28,9m	43,4m	57,9m	72,4m	86,8m	115,8m	144,7m
Beam wid.	9,6ft	19,1ft	28,4ft	37,9ft	47,5ft	71,2ft	94,9ft	142,4ft	189,9ft	237,3ft	284,8ft	379,7ft	474,6ft

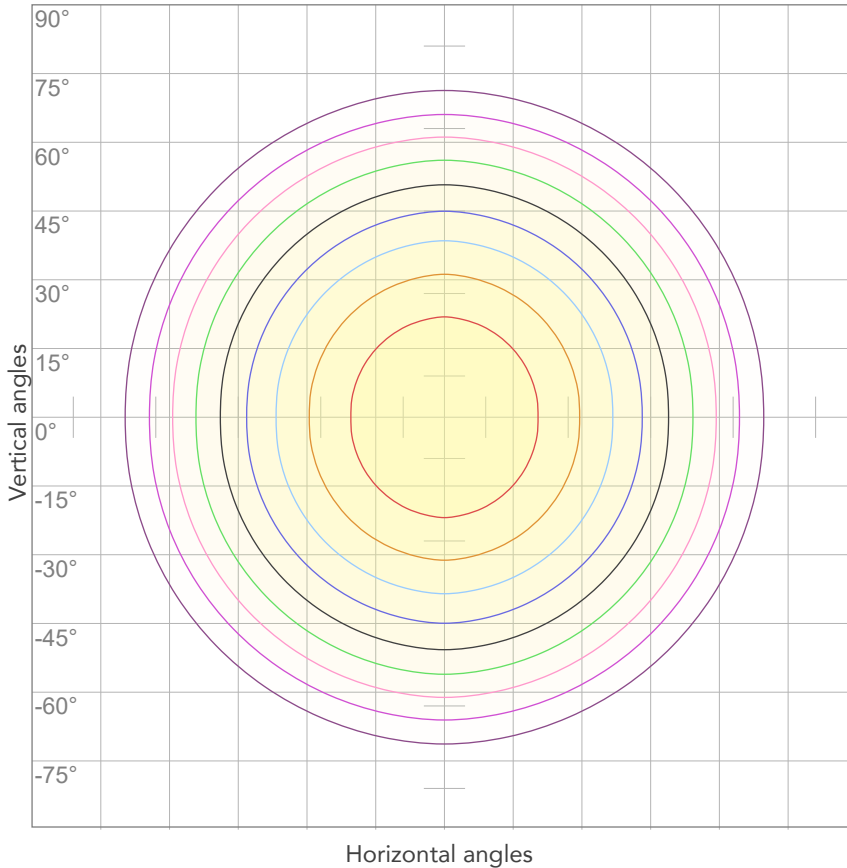
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,542A	113,5W	55lm/W

ISO CANDELA DIAGRAM



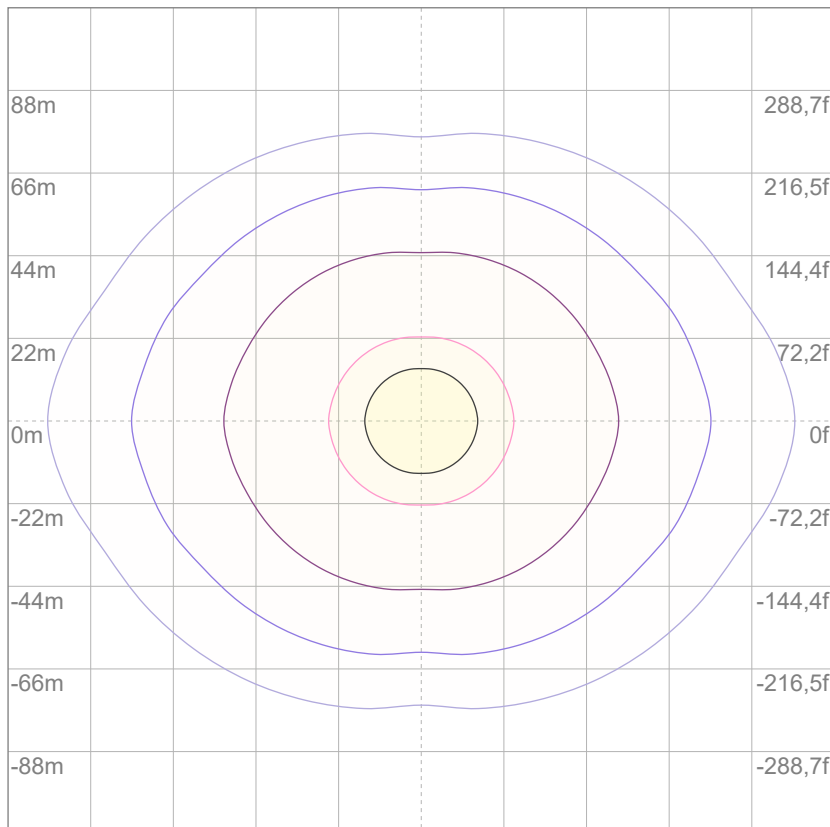
10%	226 cd
20%	452 cd
30%	677 cd
40%	903 cd
50%	1129 cd
60%	1355 cd
70%	1580 cd
80%	1806 cd

Conditions:

Number of c-planes: 4

Candela at center: 2258 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,677 lx
5%	1,13 lx
10%	2,26 lx
30%	6,77 lx
50%	11,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 22,6 lx

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



Total lumen output:

7520 lm

Peak candela output:

3047 cd

Light quality:

CRI: 94,7

Color temperature:

4012 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

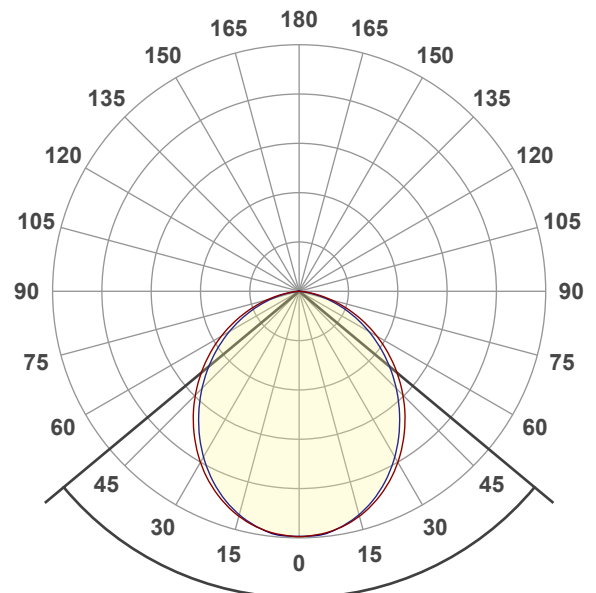
MEASURAMENT CONDITIONS:

Beam angle:
Filter MD

Target:
4000K HQ

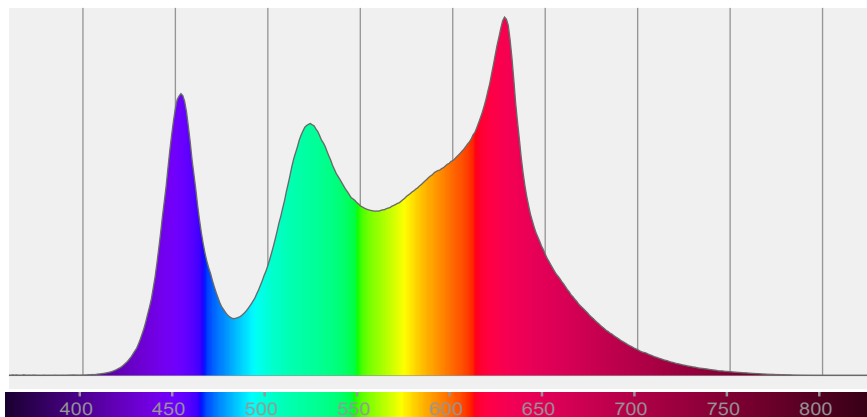
Operator:
Paolo Carvone

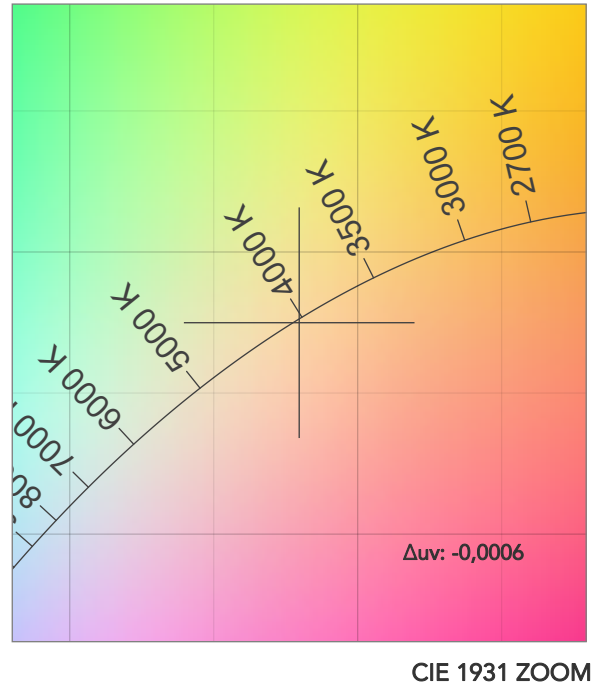
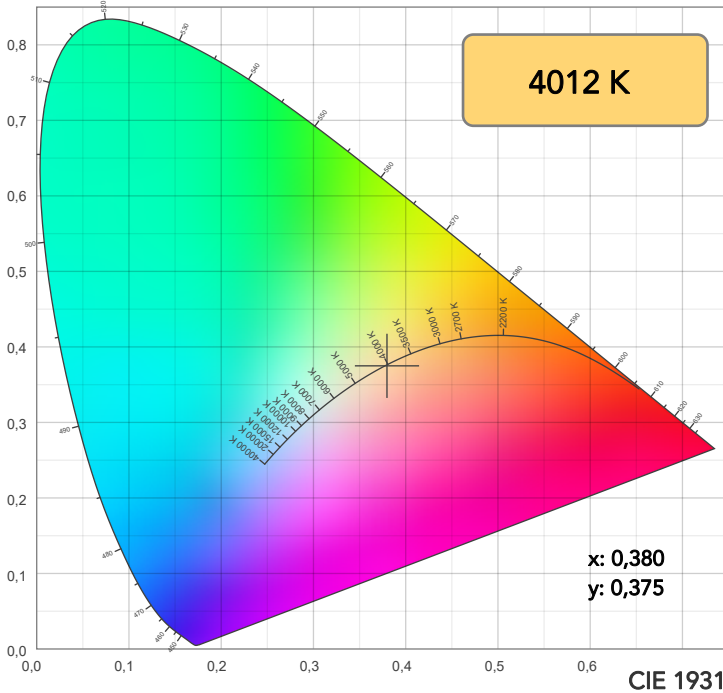
Date and time:
10/01/2022 13:13:47



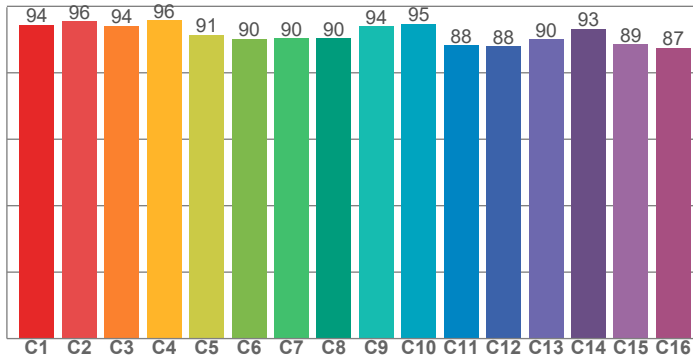
Beam angle 50%: 100,5°
Field angle 10%: 153,4°
Cut off angle 2.5%: 166,3°

Spectra

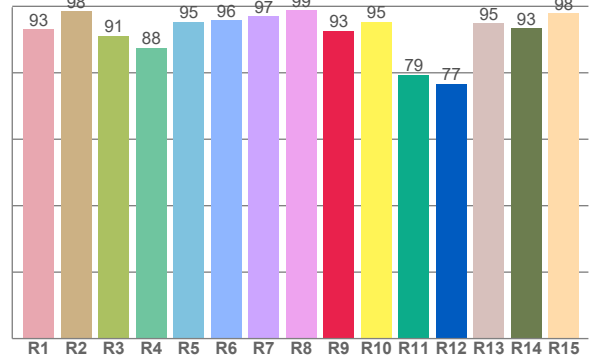




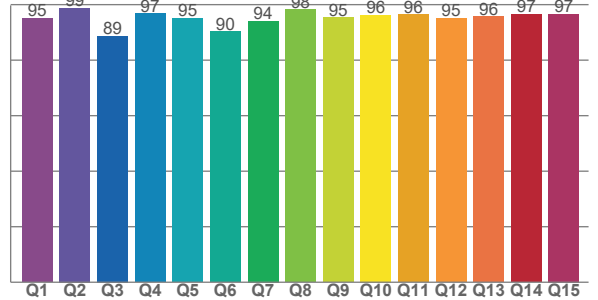
TM30: 91,9



CRI: 94,7 (R1-R8)



CQS: 94,6



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	98,5	91,2	87,5	95,4	95,7	97,0	98,8	92,6	95,4	79,4	76,7	94,9	93,4	97,9

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

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,1	98,8	88,8	96,8	95,1	90,3	94,1	98,2	95,3	96,3	96,5	95,1	95,7	96,5	96,6

COLOR PARAMETERS

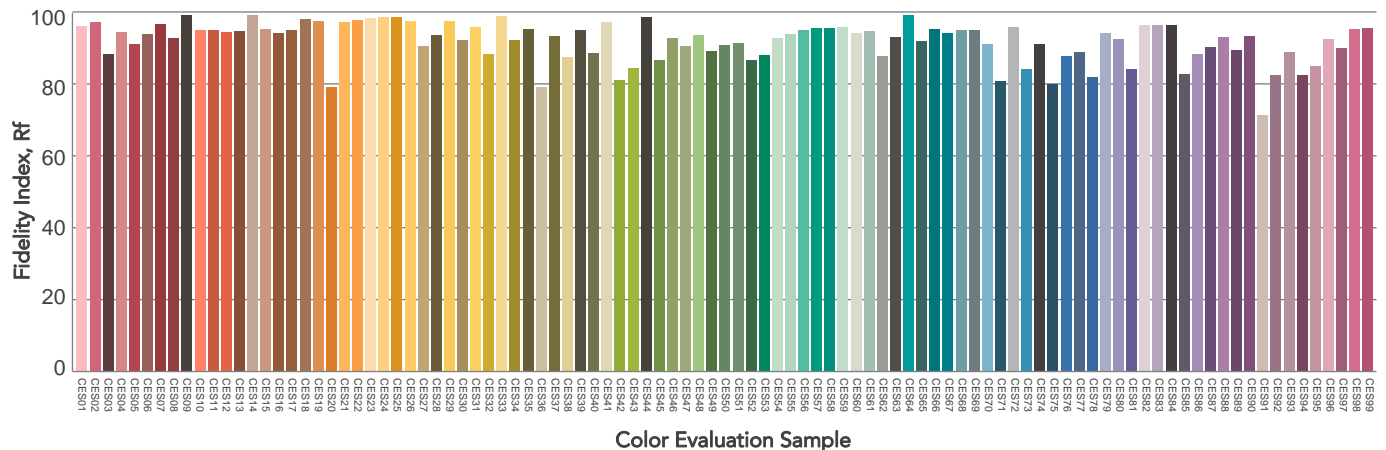
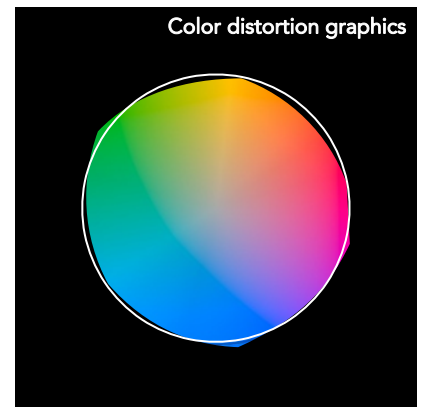
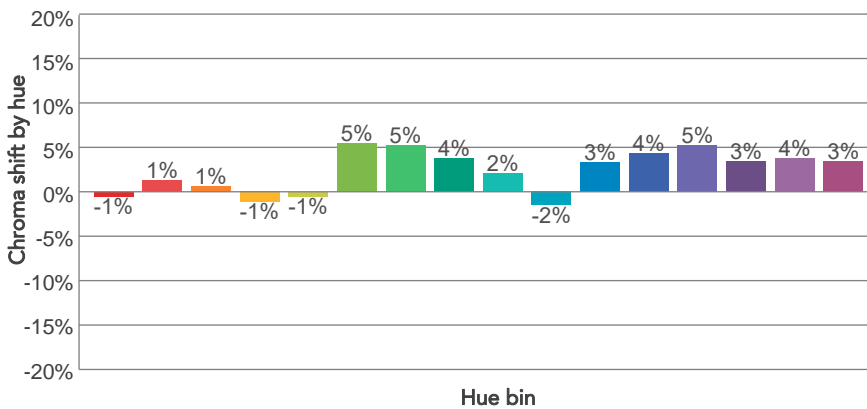
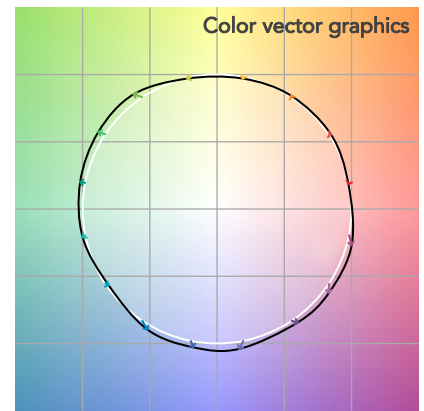
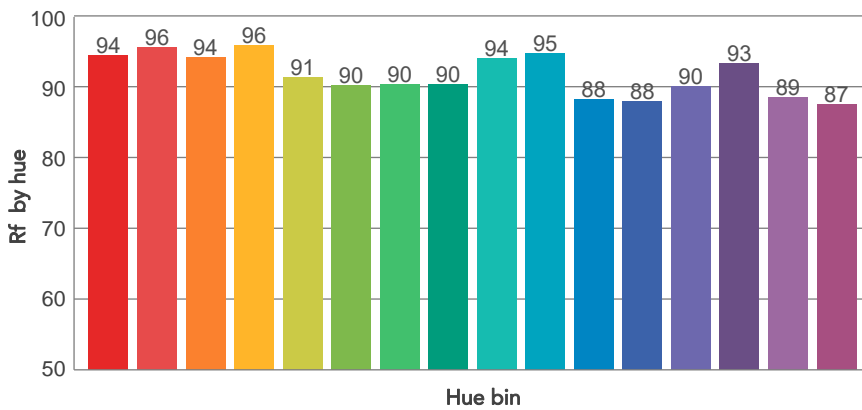
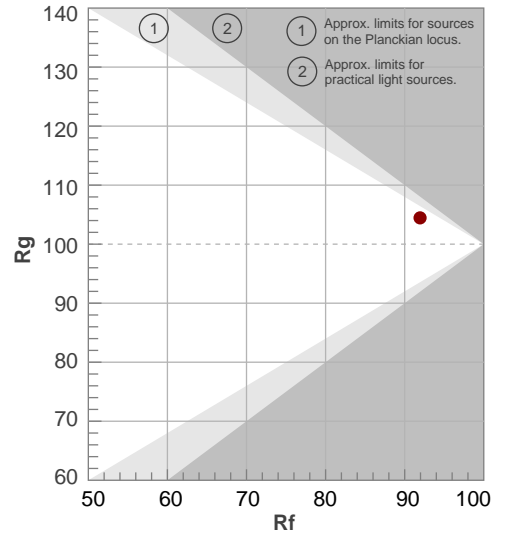
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4012 K	94,7	92,6	91,9	104,5	94,6	86	0,380	0,375	-0,0006

TM30 DETAILS

Rf 91,9
Fidelity index Rf

Rg 104,5
Gammut index

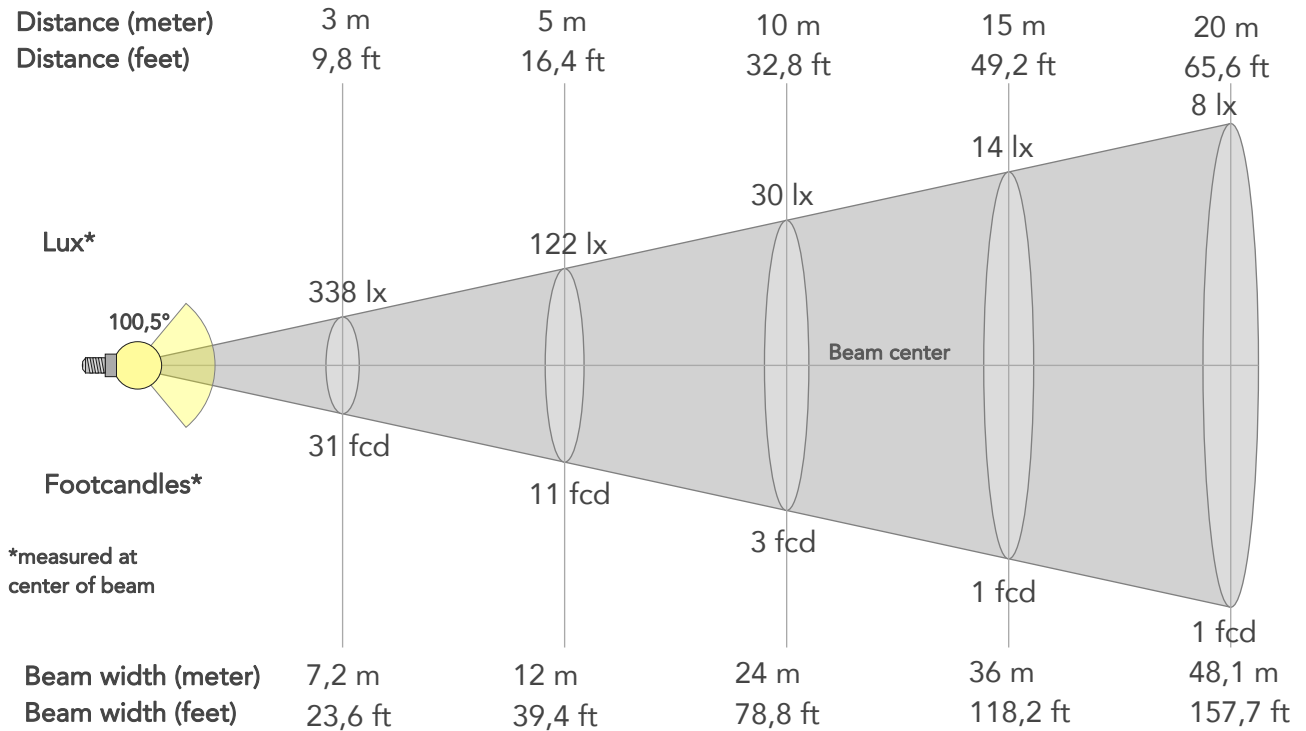
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	-1%
2	96	1%	-1%
3	94	1%	1%
4	96	-1%	0%
5	91	-1%	3%
6	90	5%	4%
7	90	5%	1%
8	90	4%	0%
9	94	2%	1%
10	95	-2%	2%
11	88	3%	7%
12	88	4%	3%
13	90	5%	-4%
14	93	3%	3%
15	89	4%	-5%
16	87	3%	-7%



BEAM DETAILS



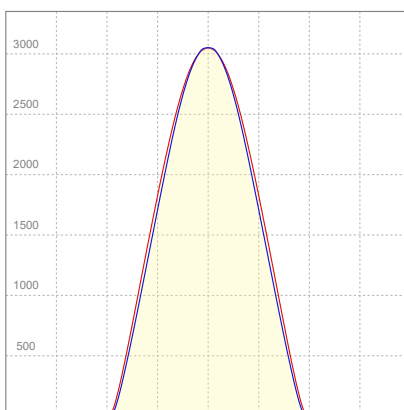
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
100,5°	153,4°	166,3°	82,4%	58,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3045lx	761lx	338lx	190lx	122lx	54lx	30lx	14lx	8lx	5lx	3lx	2lx	1lx
Footcand.	283fcd	71fcd	31fcd	18fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,4m	4,8m	7,2m	9,6m	12m	18m	24m	36m	48,1m	60,1m	72,1m	96,1m	120,2m
Beam wid.	7,9ft	15,9ft	23,6ft	31,5ft	39,4ft	59,1ft	78,8ft	118,2ft	157,7ft	197,1ft	236,5ft	315,3ft	394,1ft

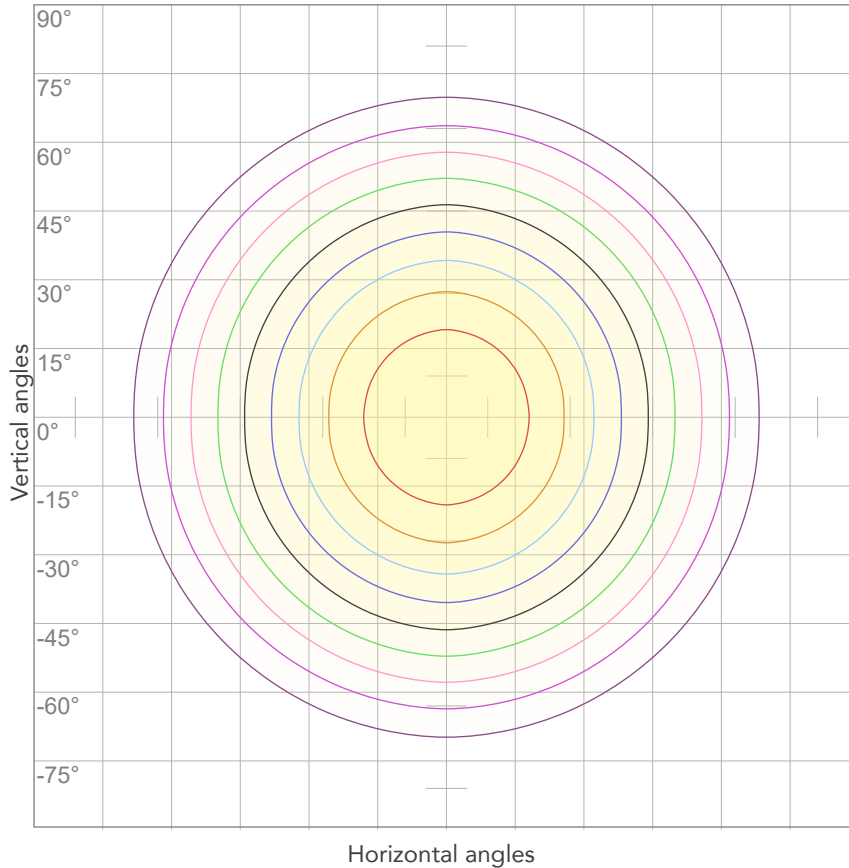
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,550A	114,9W	65lm/W

ISO CANDELA DIAGRAM



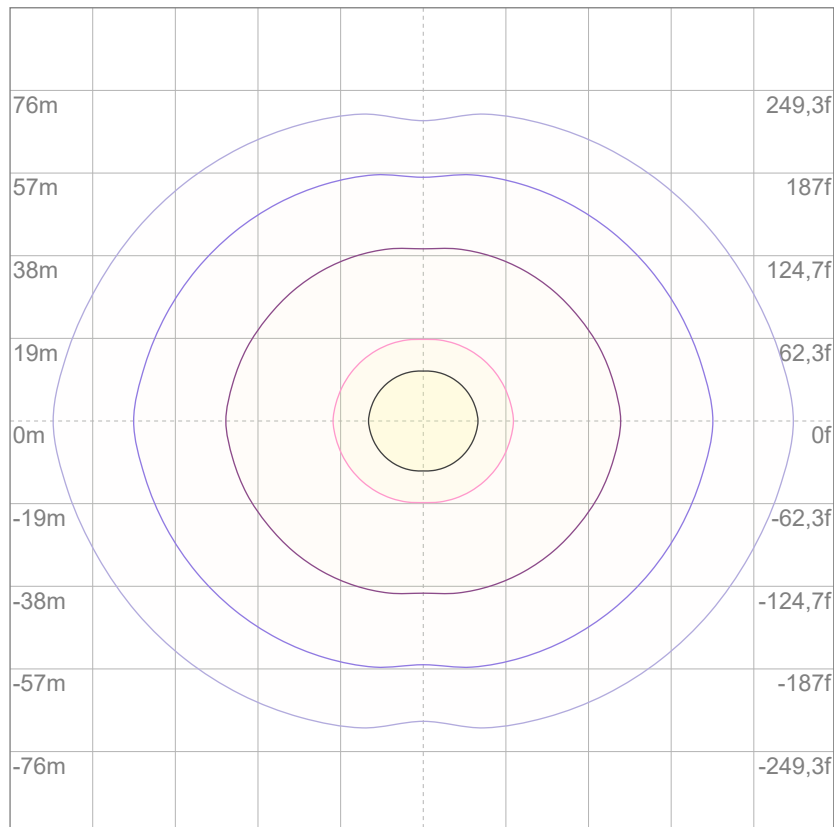
10%	305 cd
20%	609 cd
30%	914 cd
40%	1218 cd
50%	1523 cd
60%	1827 cd
70%	2132 cd
80%	2436 cd

Conditions:

Number of c-planes: 4

Candela at center: 3045 cd

ISO LUX DIAGRAM



3%	0,914 lx
5%	1,52 lx
10%	3,05 lx
30%	9,14 lx
50%	15,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 30,5 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:

7589 lm

Peak candela output:

3151 cd

Light quality:

CRI: 94,8

Color temperature:

4063 K

PRODUCT NAME:

ECLPANELTWCMINI2X1

MEASURAMENT CONDITIONS:

Beam angle:

Filter LD

Target:

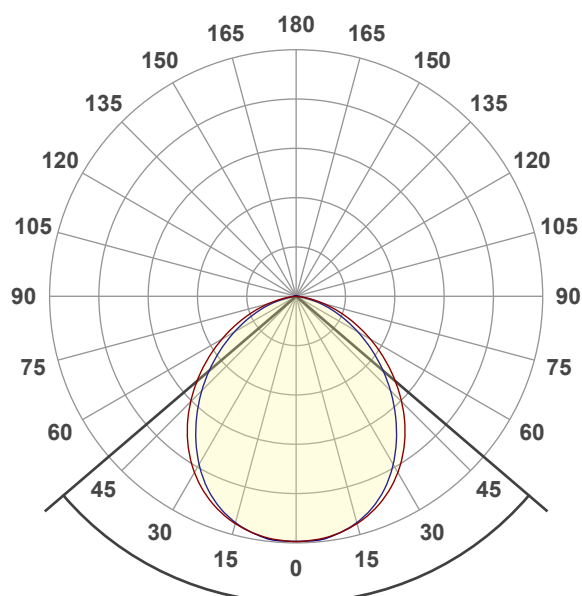
4000K HQ

Operator:

Paolo Carvone

Date and time:

10/01/2022 14:21:03

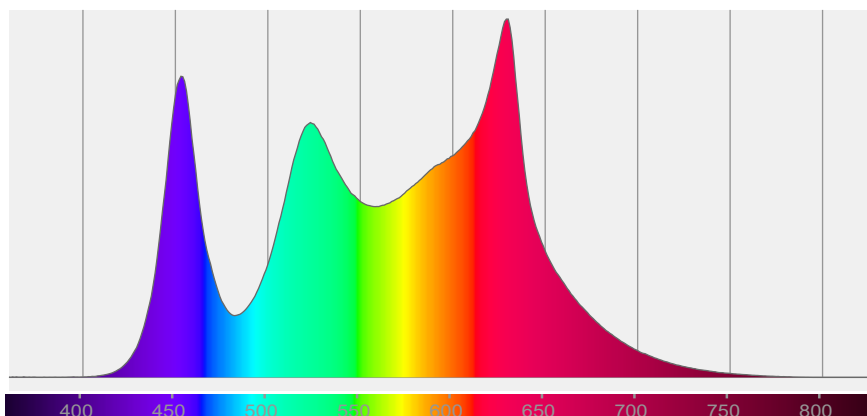


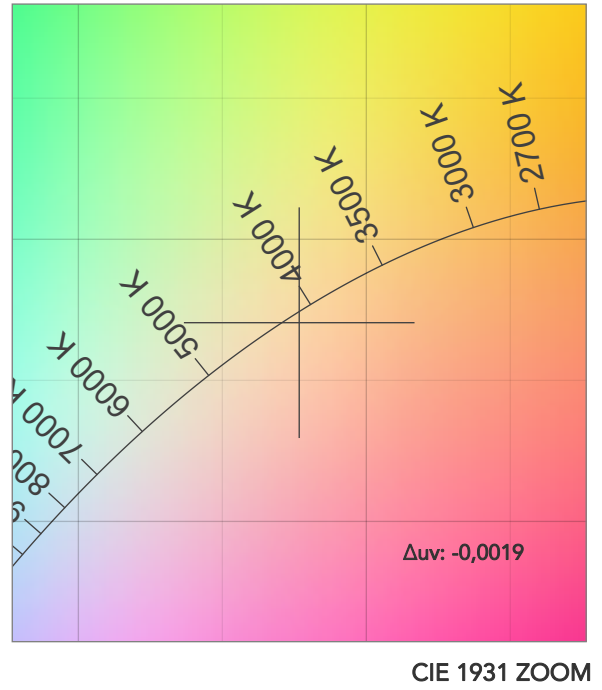
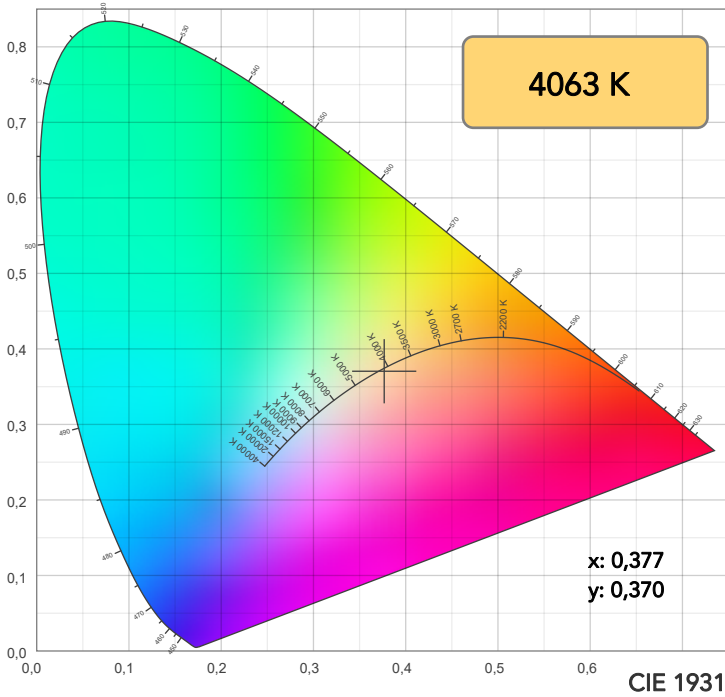
Beam angle 50%: 98,9°

Field angle 10%: 150,3°

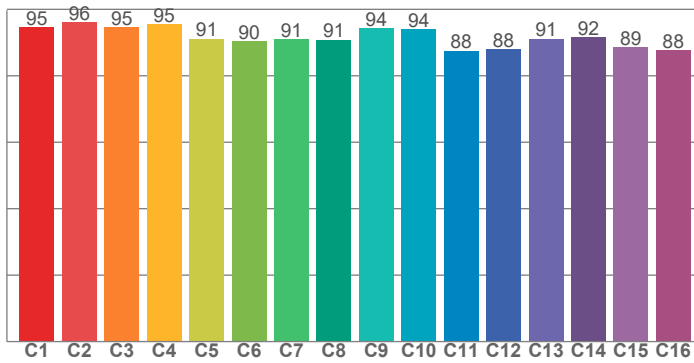
Cut off angle 2.5%: 164,5°

Spectra

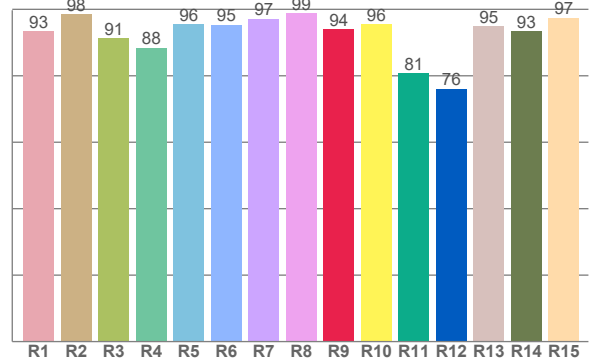




TM30: 92,0



CRI: 94,8 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,3	98,5	91,3	88,4	95,6	95,4	97,2	98,9	94,0	95,5	80,7	76,1	94,8	93,5	97,4

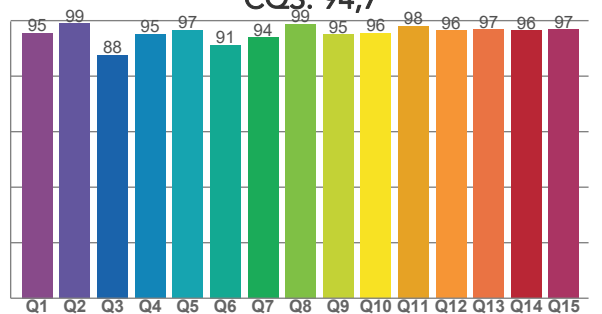
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,5	98,9	87,7	95,1	96,5	91,2	93,9	98,7	95,0	95,6	98,1	96,5	96,8	96,4	96,7

CQS: 94,7



COLOR PARAMETERS

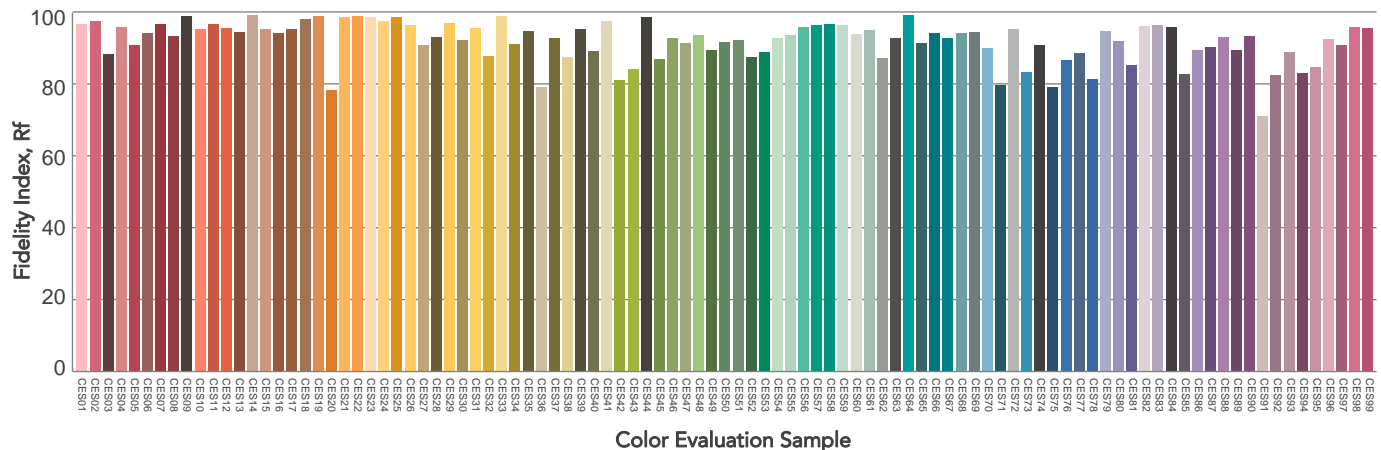
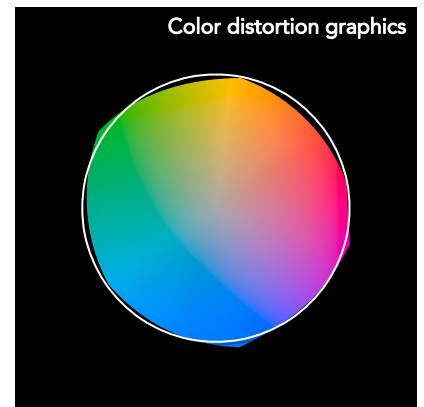
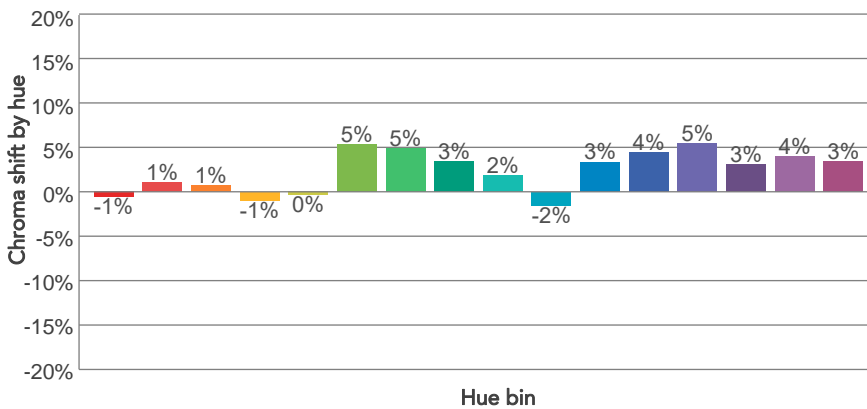
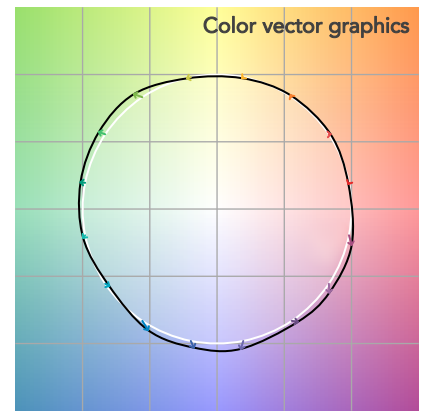
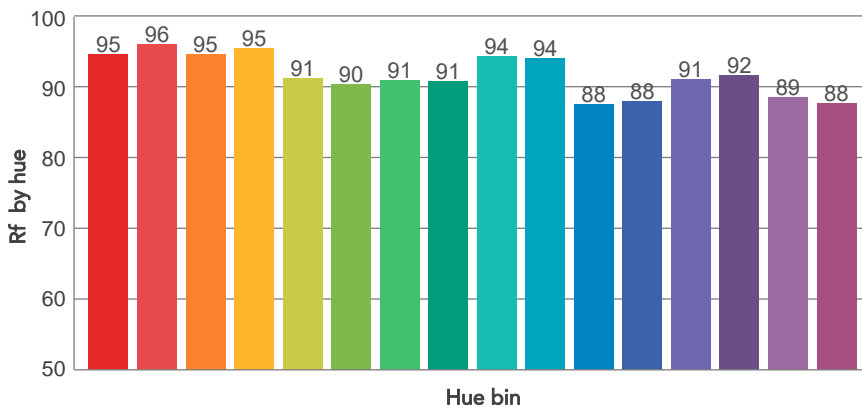
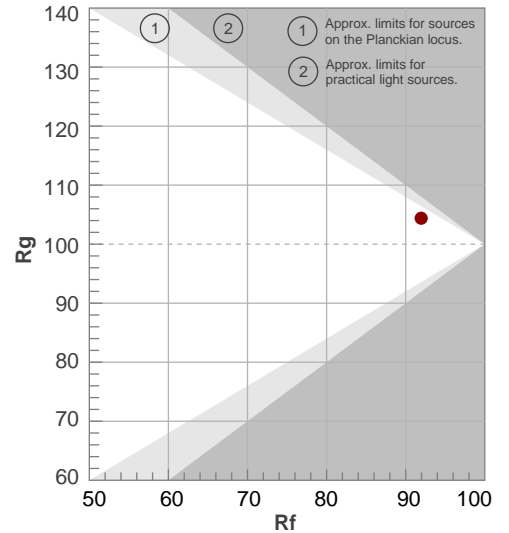
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4063 K	94,8	94,0	92,0	104,4	94,7	87	0,377	0,370	-0,0019

TM30 DETAILS

Rf 92,0
Fidelity index Rf

Rg 104,4
Gammut index

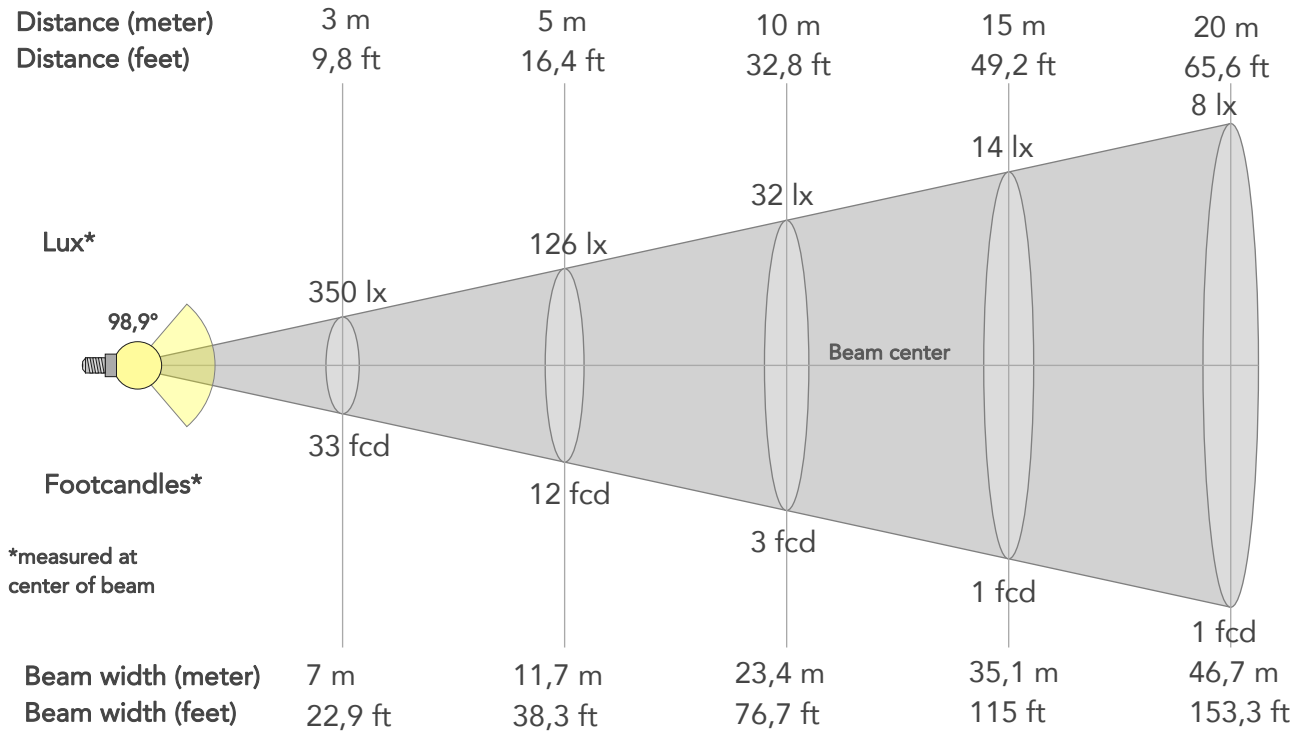
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	96	1%	-1%
3	95	1%	2%
4	95	-1%	1%
5	91	0%	3%
6	90	5%	4%
7	91	5%	1%
8	91	3%	0%
9	94	2%	2%
10	94	-2%	3%
11	88	3%	7%
12	88	4%	3%
13	91	5%	-3%
14	92	3%	3%
15	89	4%	-5%
16	88	3%	-7%



BEAM DETAILS



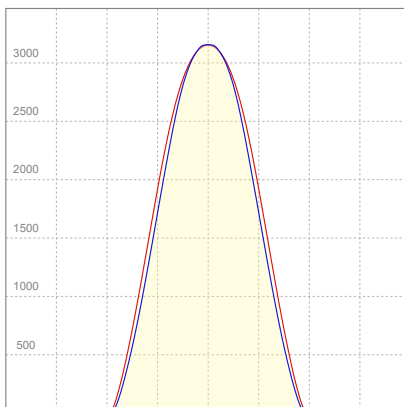
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
98,9°	150,3°	164,5°	84,4%	60,4%



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	3151lx	788lx	350lx	197lx	126lx	56lx	32lx	14lx	8lx	5lx	4lx	2lx	1lx
Footcand.	293fcd	73fcd	33fcd	18fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,3m	4,7m	7m	9,3m	11,7m	17,5m	23,4m	35,1m	46,7m	58,4m	70,1m	93,5m	116,9m
Beam wid.	7,7ft	15,4ft	22,9ft	30,6ft	38,3ft	57,5ft	76,7ft	115ft	153,3ft	191,7ft	230ft	306,7ft	383,3ft

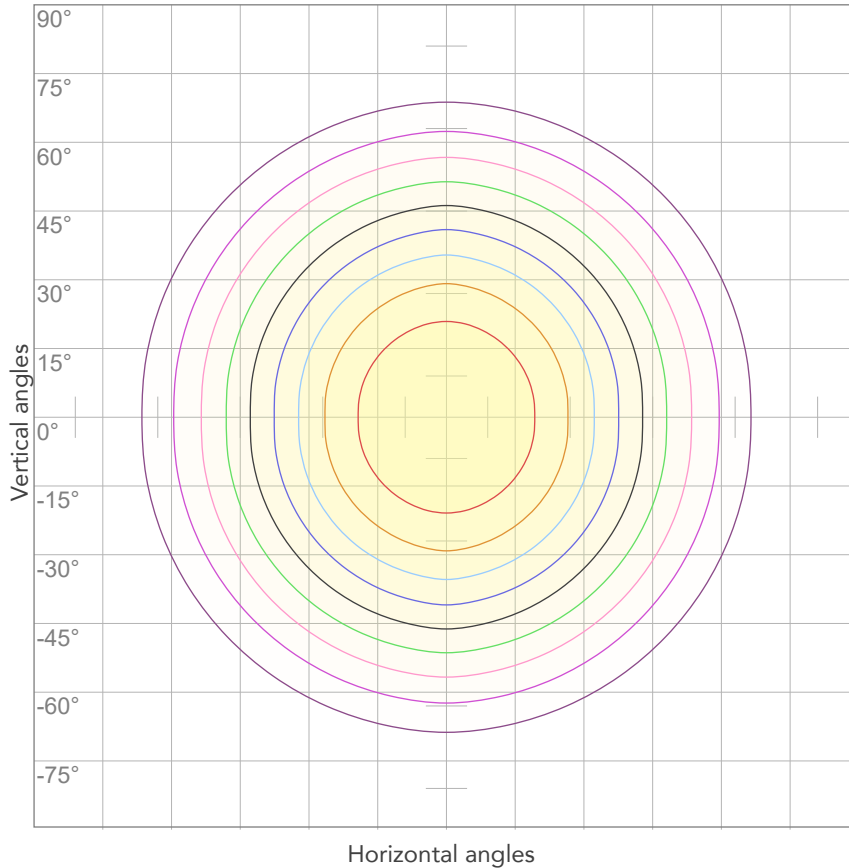
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,548A	113,9W	67lm/W

ISO CANDELA DIAGRAM



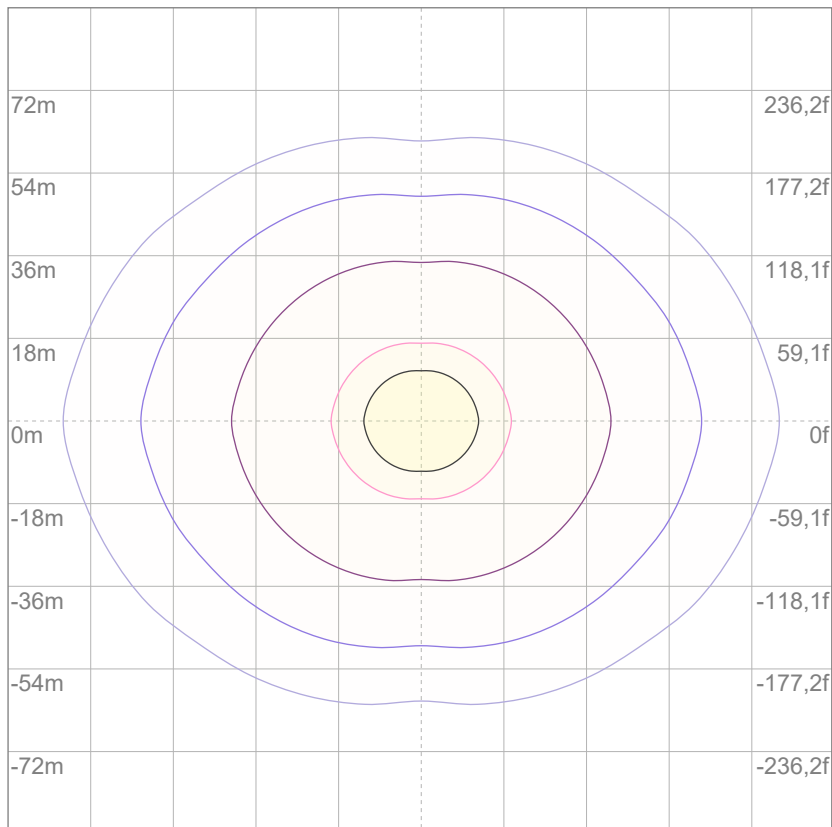
10%	315 cd
20%	630 cd
30%	945 cd
40%	1260 cd
50%	1575 cd
60%	1891 cd
70%	2206 cd
80%	2521 cd

Conditions:

Number of c-planes: 4

Candela at center: 3151 cd

ISO LUX DIAGRAM



3%	0,945 lx
5%	1,58 lx
10%	3,15 lx
30%	9,45 lx
50%	15,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 31,5 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:

6509 lm

Peak candela output:

4219 cd

Light quality:

CRI: 95,0

Color temperature:

4044 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

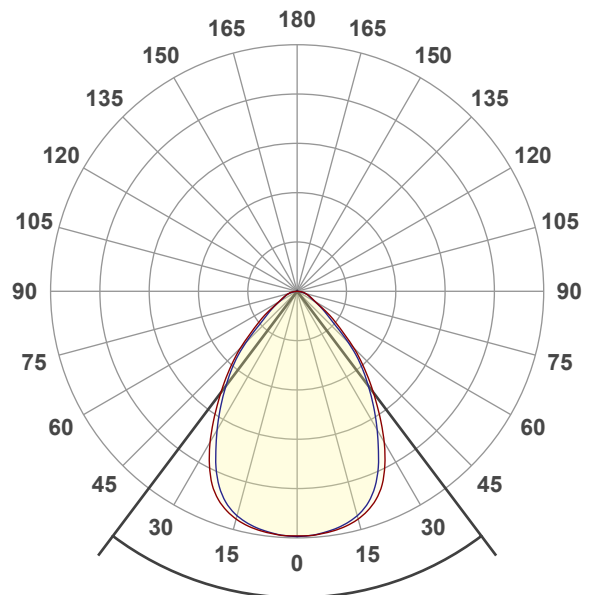
MEASURAMENT CONDITIONS:

Beam angle:
Filter INT

Target:
4000K HQ

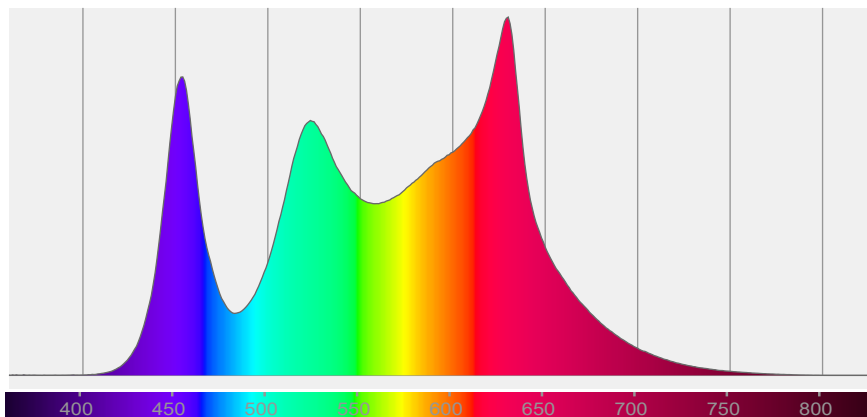
Operator:
Paolo Carvone

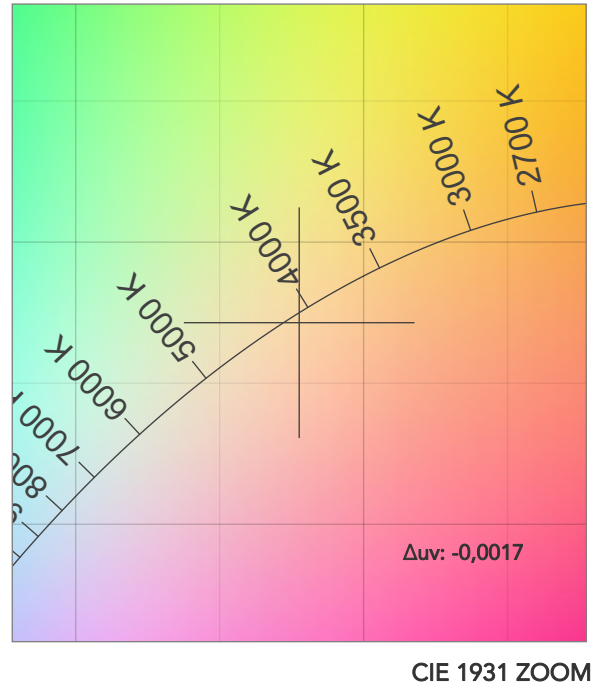
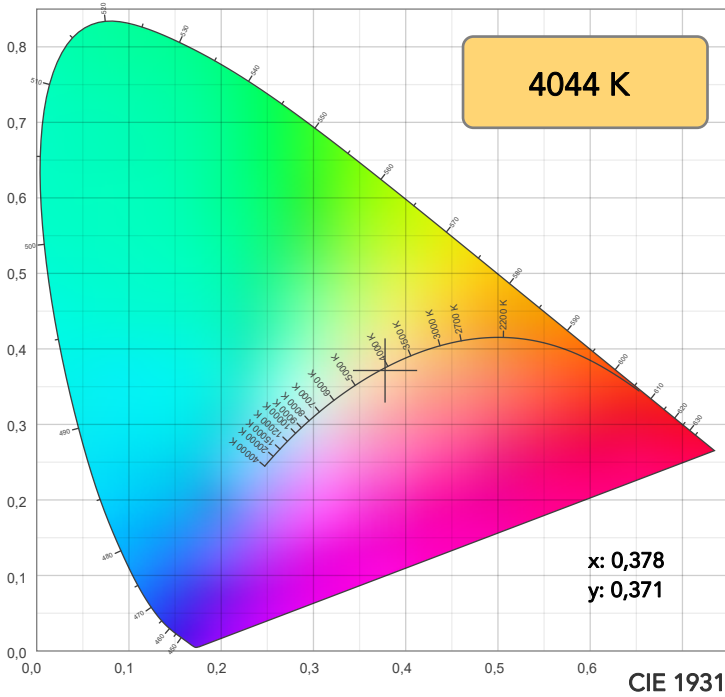
Date and time:
10/01/2022 14:52:33



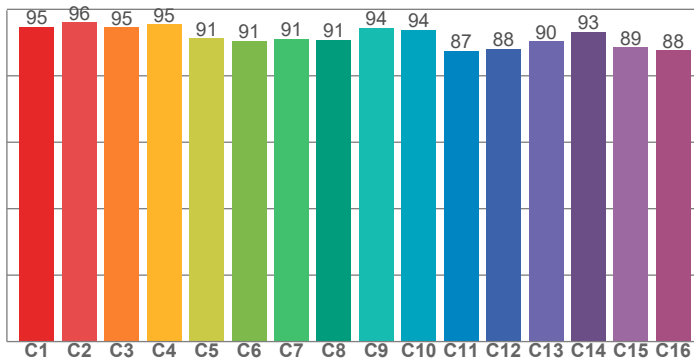
Beam angle 50%: 74°
Field angle 10%: 116,4°
Cut off angle 2.5%: 157,9°

Spectra

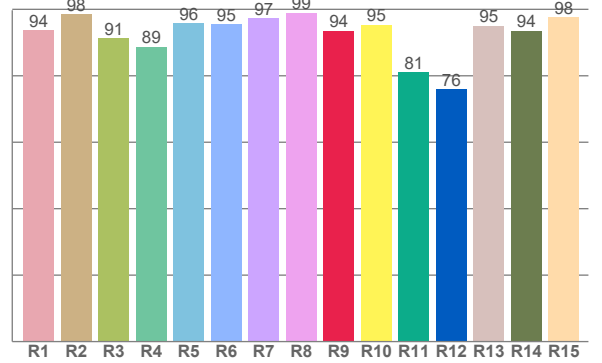




TM30: 92,0



CRI: 95,0 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,6	98,5	91,3	88,7	95,9	95,5	97,3	99,0	93,5	95,3	81,1	75,9	95,1	93,5	97,7

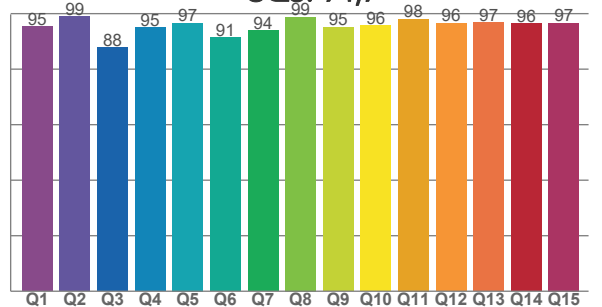
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	96,1	94,6	95,4	91,2	90,5	91,1	90,8	94,4	93,8	87,5	88,0	90,3	93,2	88,5	87,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,4	98,9	87,7	95,0	96,7	91,4	93,9	98,8	95,1	95,6	98,1	96,5	96,8	96,5	96,7

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
4044 K	95,0	93,5	92,0	104,3	94,7	87	0,378	0,371	-0,0017

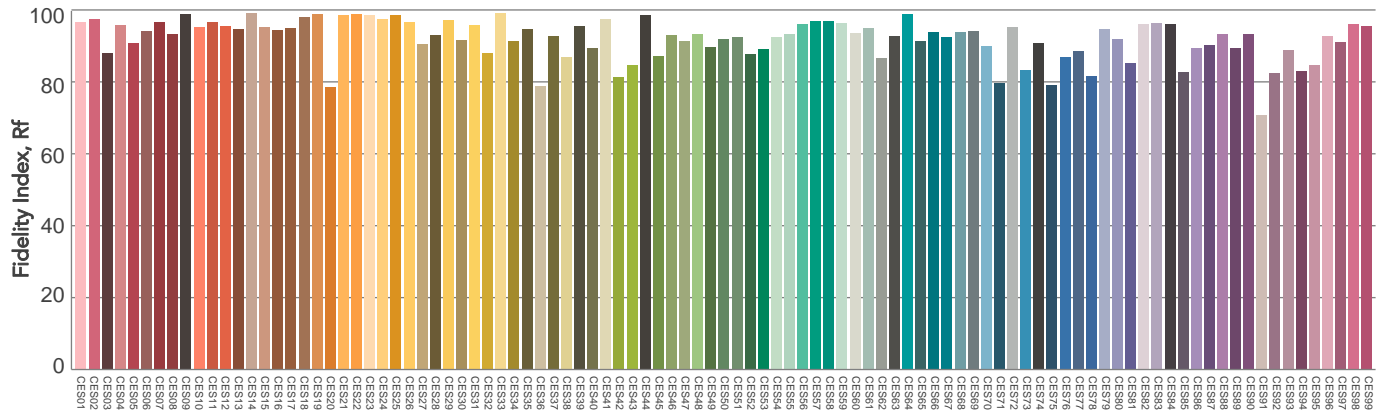
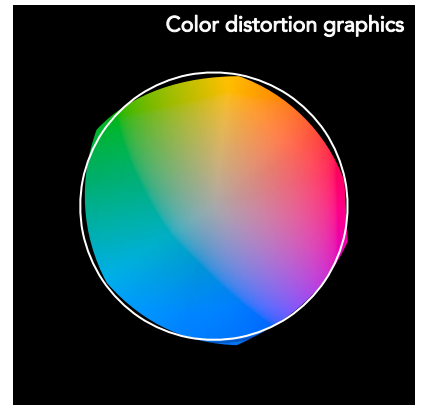
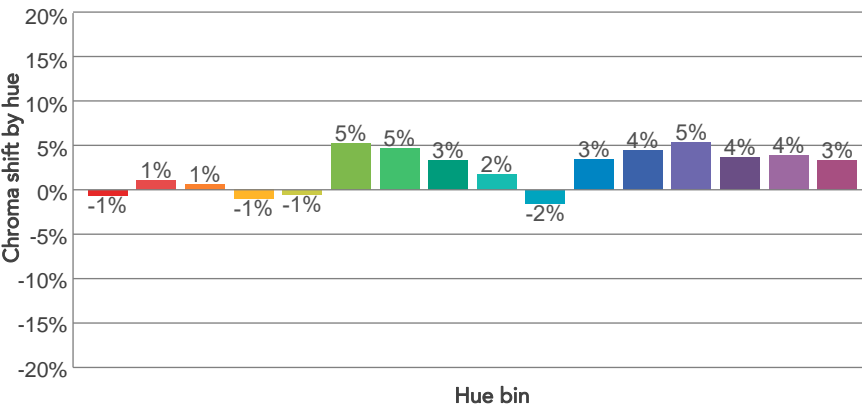
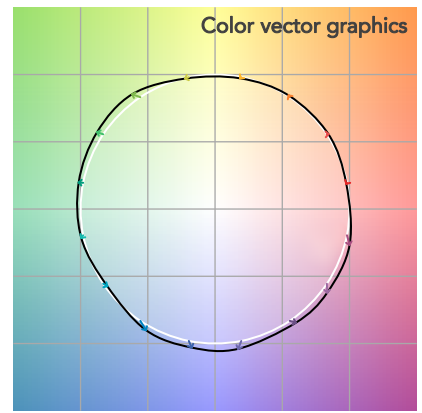
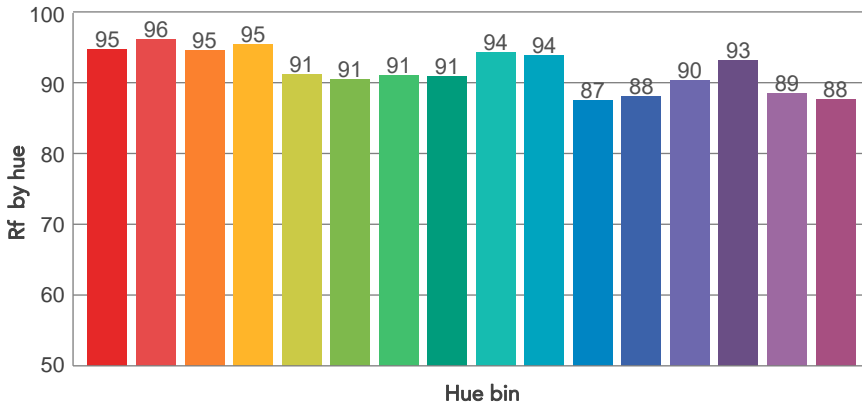
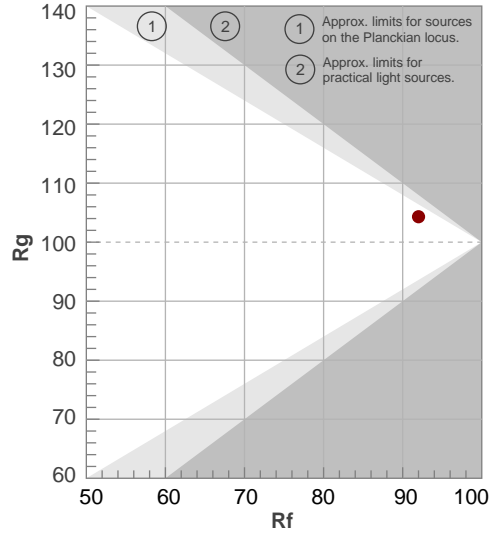
TM30 DETAILS



Rf 92,0
Fidelity index Rf

Rg 104,3
Gammut index

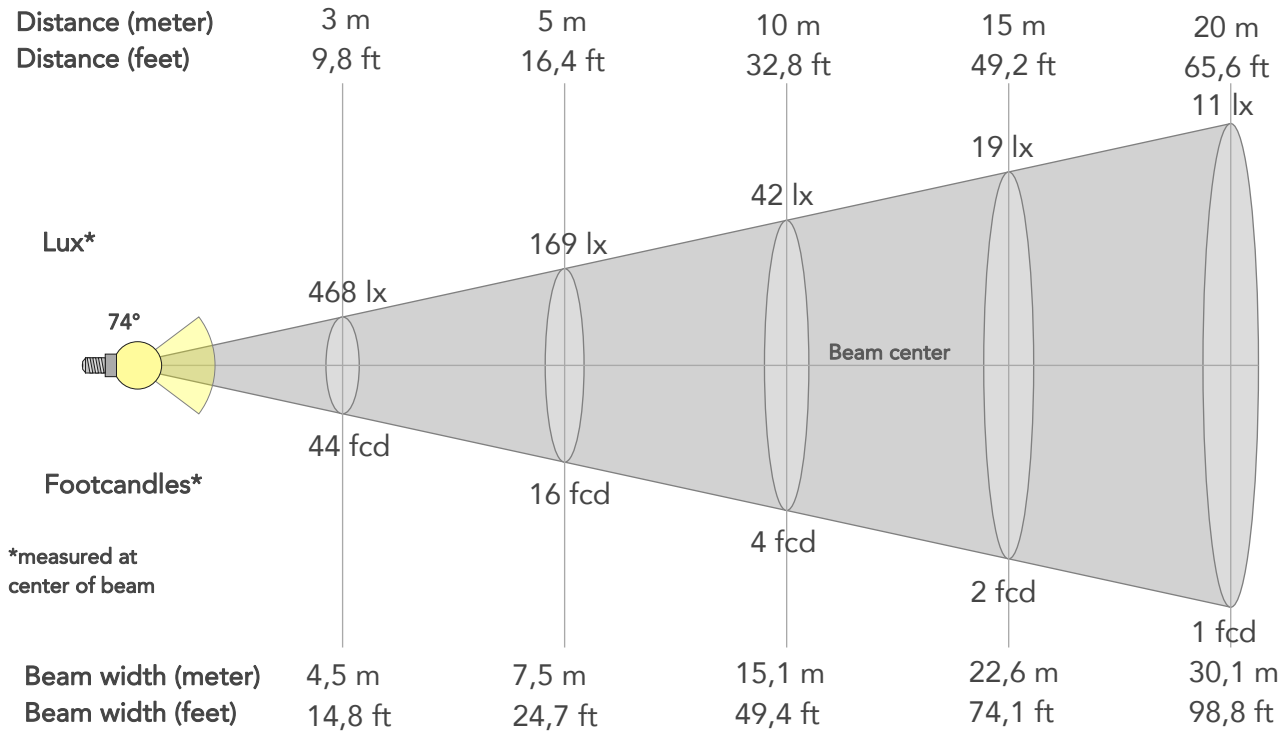
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	96	1%	-1%
3	95	1%	2%
4	95	-1%	1%
5	91	-1%	3%
6	91	5%	4%
7	91	5%	1%
8	91	3%	0%
9	94	2%	2%
10	94	-2%	3%
11	87	3%	7%
12	88	4%	3%
13	90	5%	-3%
14	93	4%	3%
15	89	4%	-5%
16	88	3%	-7%



BEAM DETAILS



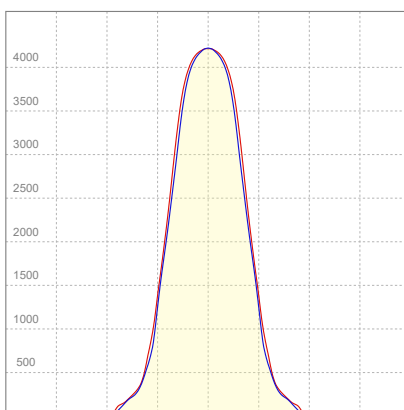
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74°	116,4°	157,9°	93,0%	78,5%



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	4216lx	1054lx	468lx	263lx	169lx	75lx	42lx	19lx	11lx	7lx	5lx	3lx	2lx
Footcand.	392fcd	98fcd	44fcd	24fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,5m	6m	7,5m	11,3m	15,1m	22,6m	30,1m	37,7m	45,2m	60,2m	75,3m
Beam wid.	5ft	9,9ft	14,8ft	19,7ft	24,7ft	37ft	49,4ft	74,1ft	98,8ft	123,5ft	148,2ft	197,6ft	247ft

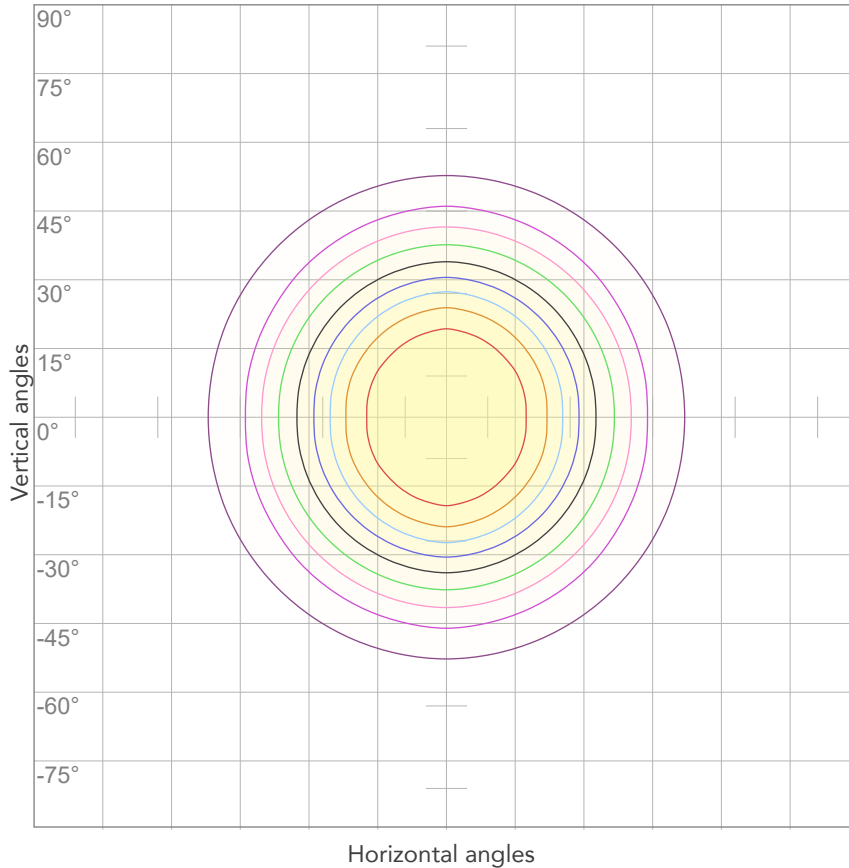
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,539A	113,7W	57lm/W

ISO CANDELA DIAGRAM



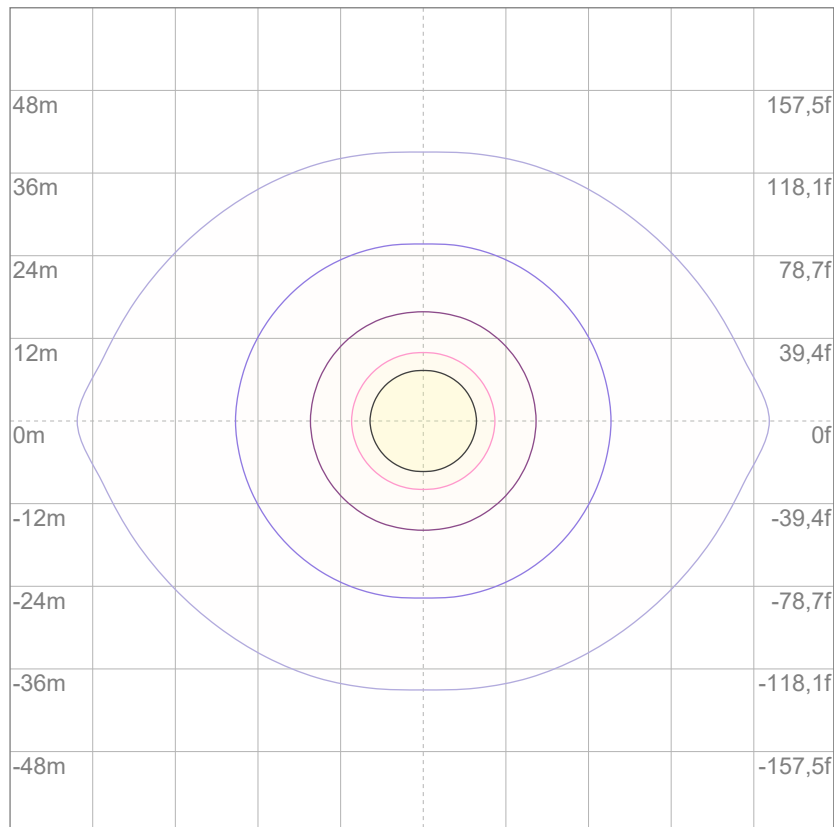
10%	422 cd
20%	843 cd
30%	1265 cd
40%	1686 cd
50%	2108 cd
60%	2530 cd
70%	2951 cd
80%	3373 cd

Conditions:

Number of c-planes: 4

Candela at center: 4216 cd

ISO LUX DIAGRAM



3%	1,26 lx
5%	2,11 lx
10%	4,22 lx
30%	12,6 lx
50%	21,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 42,2 lx

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



Total lumen output:

5969 lm

Peak candela output:

2167 cd

Light quality:

CRI: 93,1

Color temperature:

6025 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

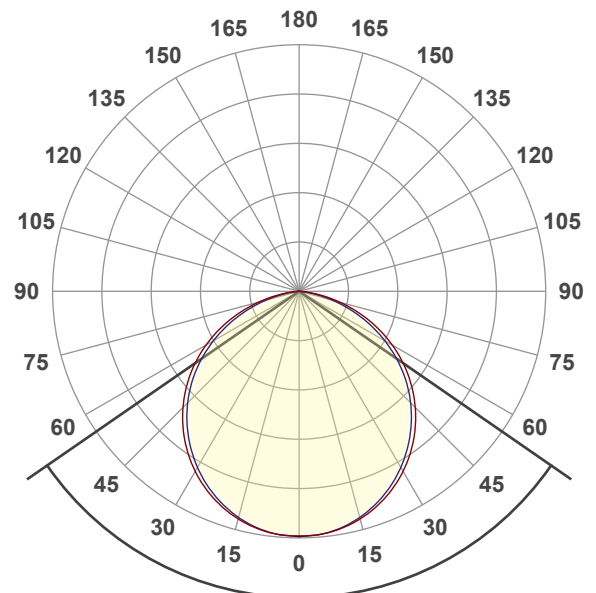
MEASURAMENT CONDITIONS:

Beam angle:
Filter HD

Target:
5600K HQ

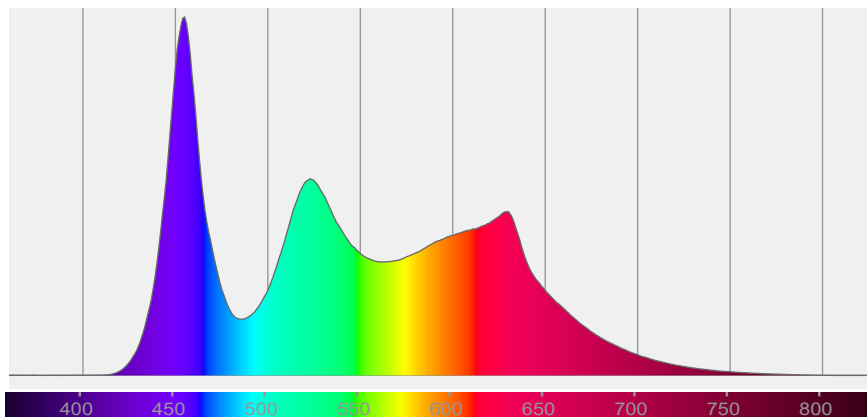
Operator:
Paolo Carvone

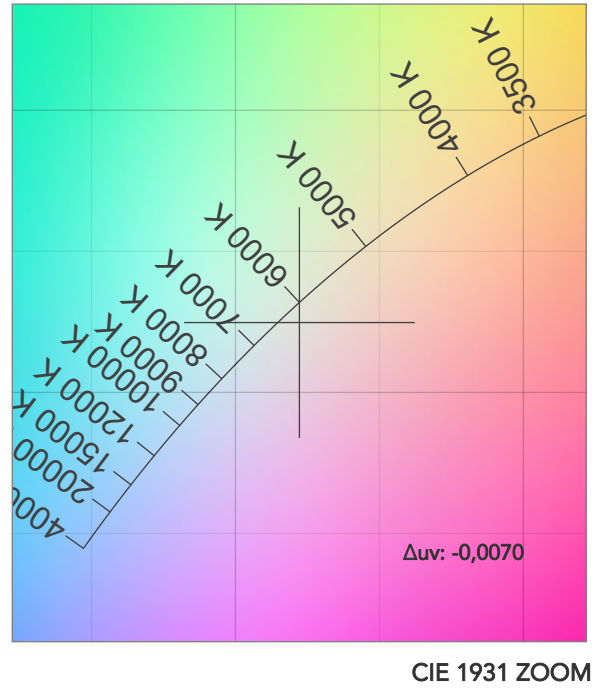
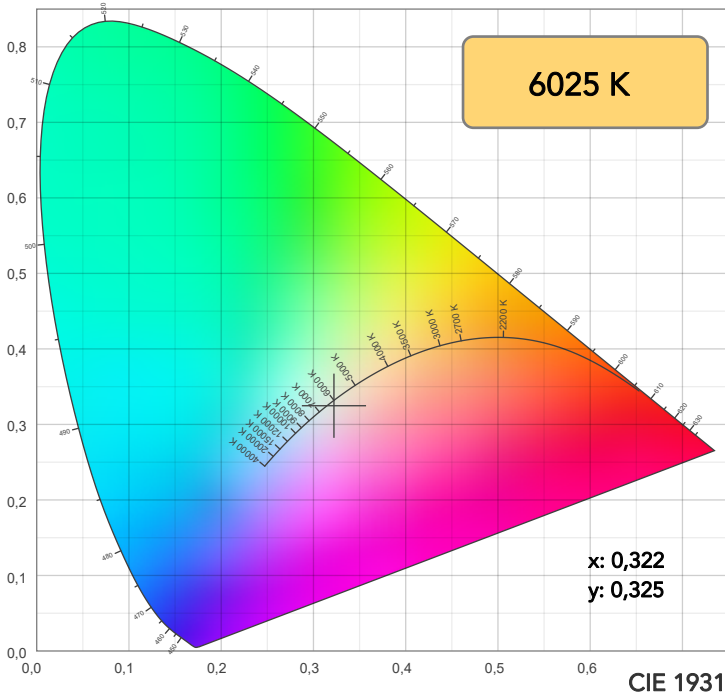
Date and time:
10/01/2022 15:47:28



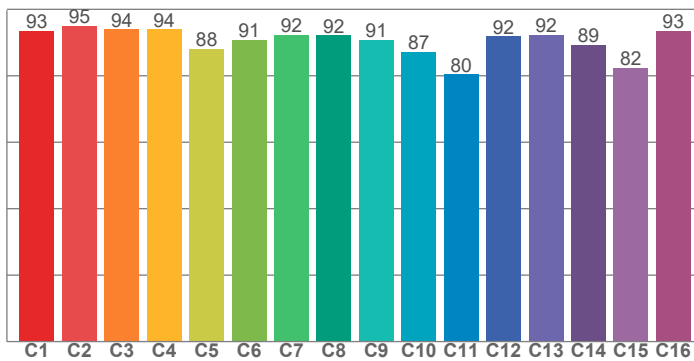
Beam angle 50%: 110,7°
Field angle 10%: 156,7°
Cut off angle 2.5%: 167,6°

Spectra

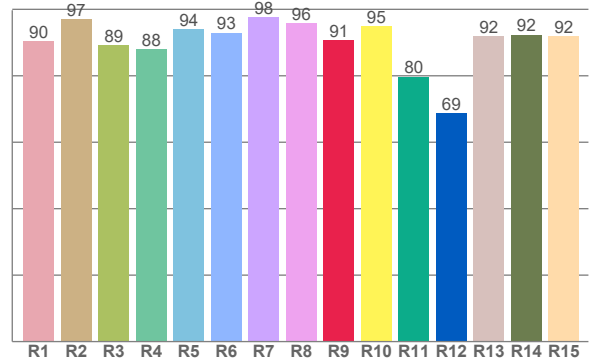




TM30: 90,2



CRI: 93,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
90,3	97,1	89,1	88,0	94,0	92,9	97,6	95,8	90,7	95,0	79,7	68,6	91,9	92,4	92,0

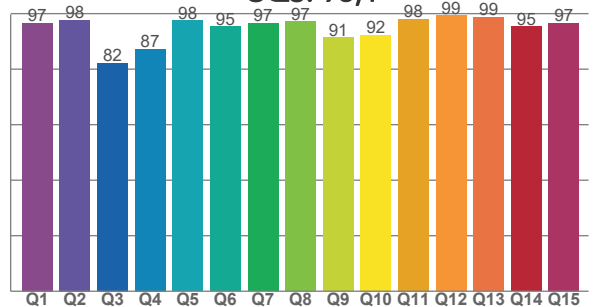
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,4	95,1	94,0	93,9	88,1	90,9	92,2	92,2	90,8	87,1	80,4	91,8	92,3	89,3	82,5	93,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,6	97,7	82,2	87,3	97,5	95,3	96,5	97,1	91,3	92,3	98,0	99,3	98,7	95,4	96,7

CQS: 93,1



COLOR PARAMETERS

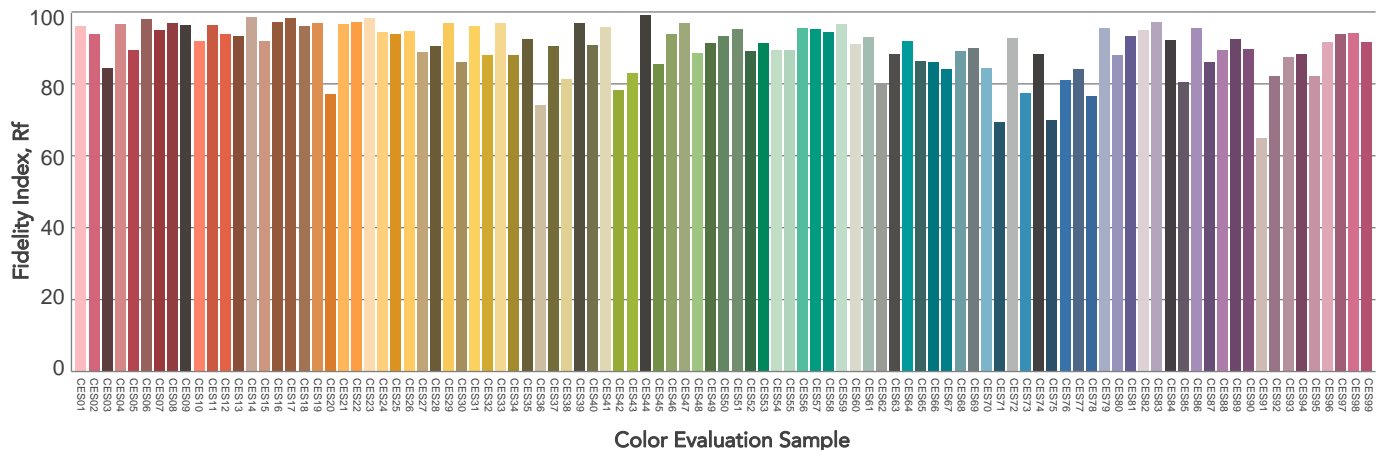
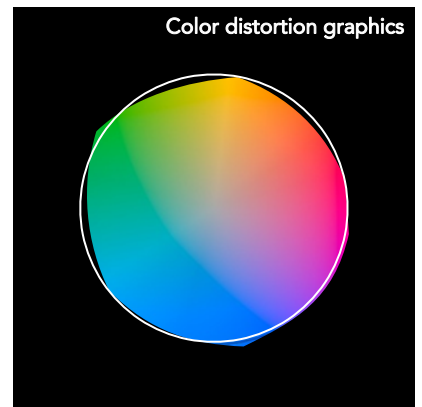
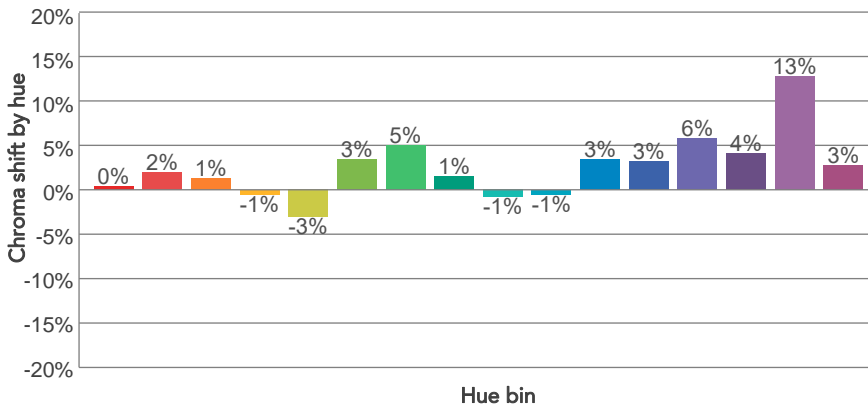
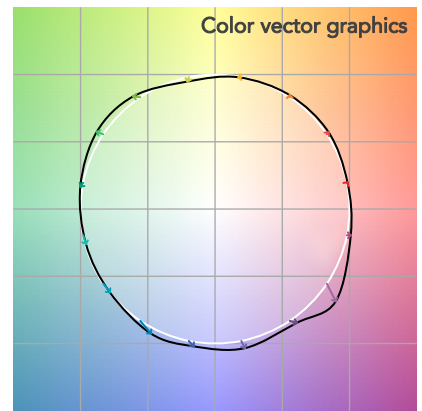
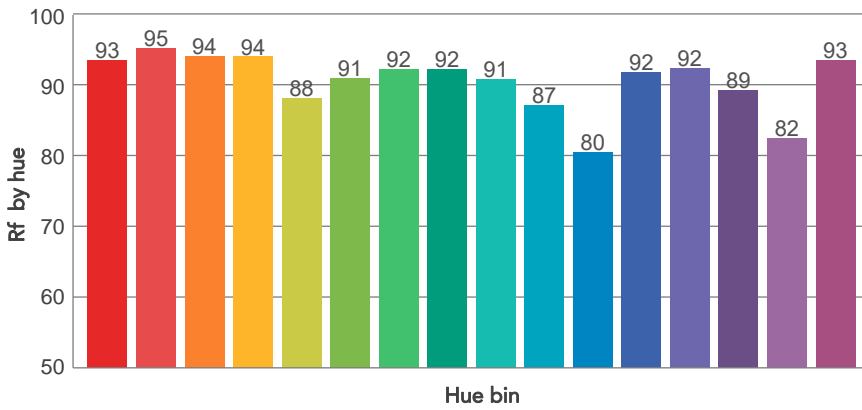
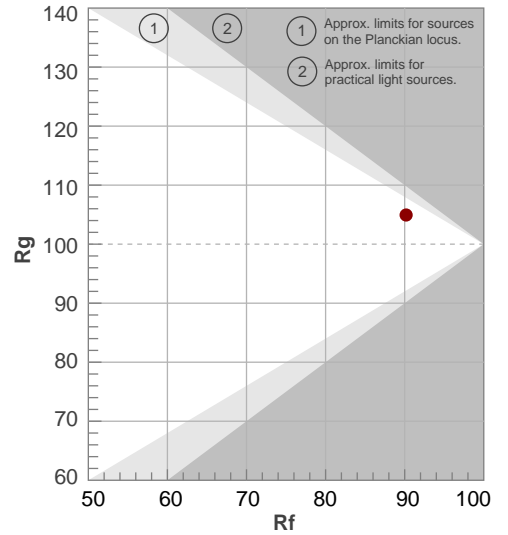
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6025 K	93,1	90,7	90,2	104,9	93,1	93	0,322	0,325	-0,0070

TM30 DETAILS

Rf 90,2
Fidelity index Rf

Rg 104,9
Gammut index

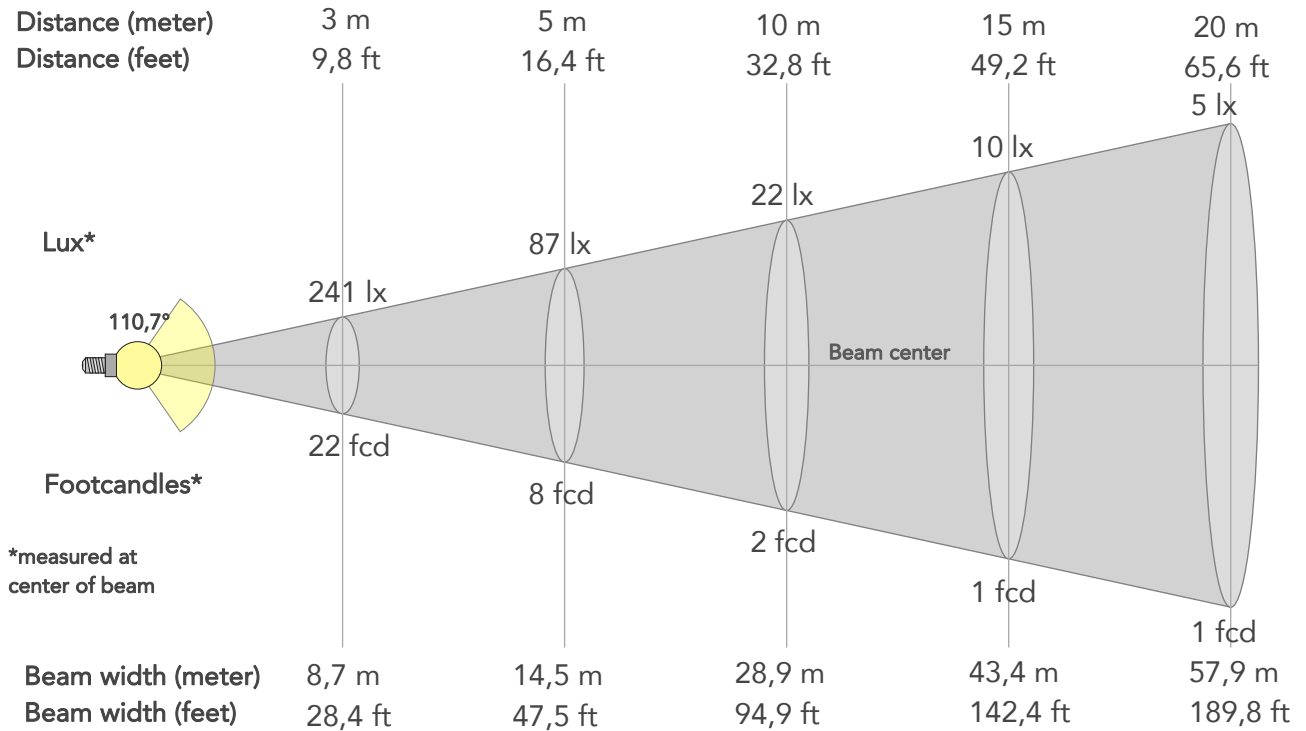
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	0%
2	95	2%	1%
3	94	1%	1%
4	94	-1%	2%
5	88	-3%	2%
6	91	3%	4%
7	92	5%	1%
8	92	1%	3%
9	91	-1%	7%
10	87	-1%	8%
11	80	3%	12%
12	92	3%	4%
13	92	6%	2%
14	89	4%	4%
15	82	13%	-7%
16	93	3%	1%



BEAM DETAILS



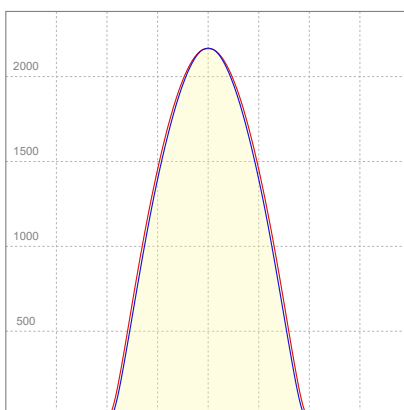
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
110,7°	156,7°	167,6°	80,6%	55,1%



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	2165lx	541lx	241lx	135lx	87lx	38lx	22lx	10lx	5lx	3lx	2lx	1lx	1lx
Footcand.	201fcd	50fcd	22fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,9m	5,8m	8,7m	11,6m	14,5m	21,7m	28,9m	43,4m	57,9m	72,3m	86,8m	115,8m	144,7m
Beam wid.	9,6ft	19,1ft	28,4ft	37,9ft	47,5ft	71,2ft	94,9ft	142,4ft	189,8ft	237,3ft	284,8ft	379,7ft	474,6ft

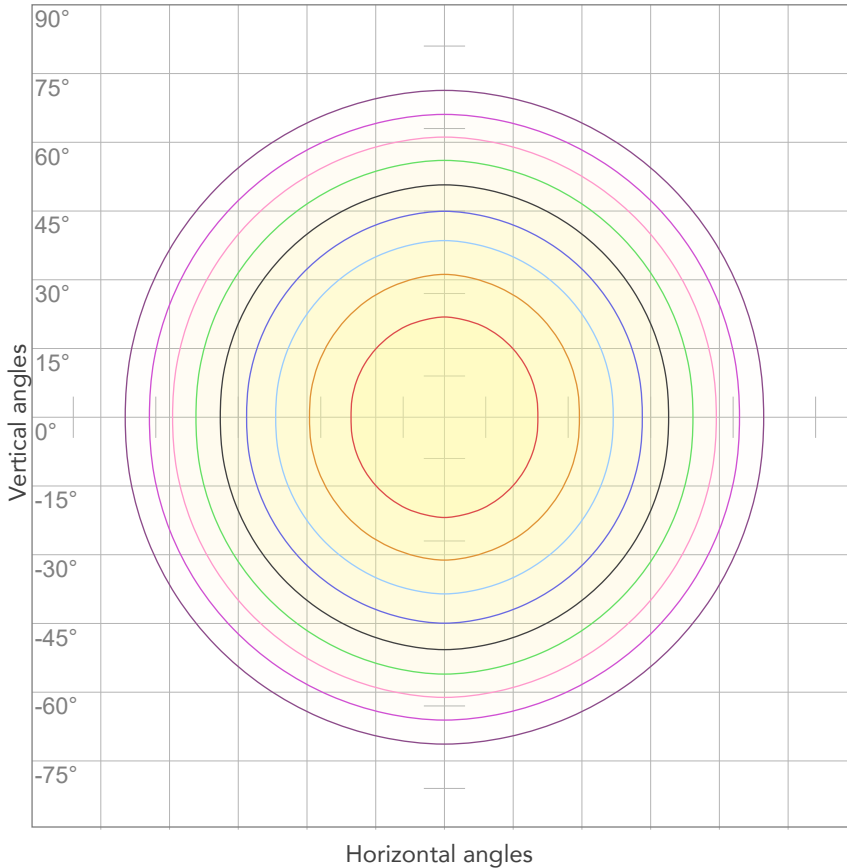
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,542A	113,3W	53lm/W

ISO CANDELA DIAGRAM



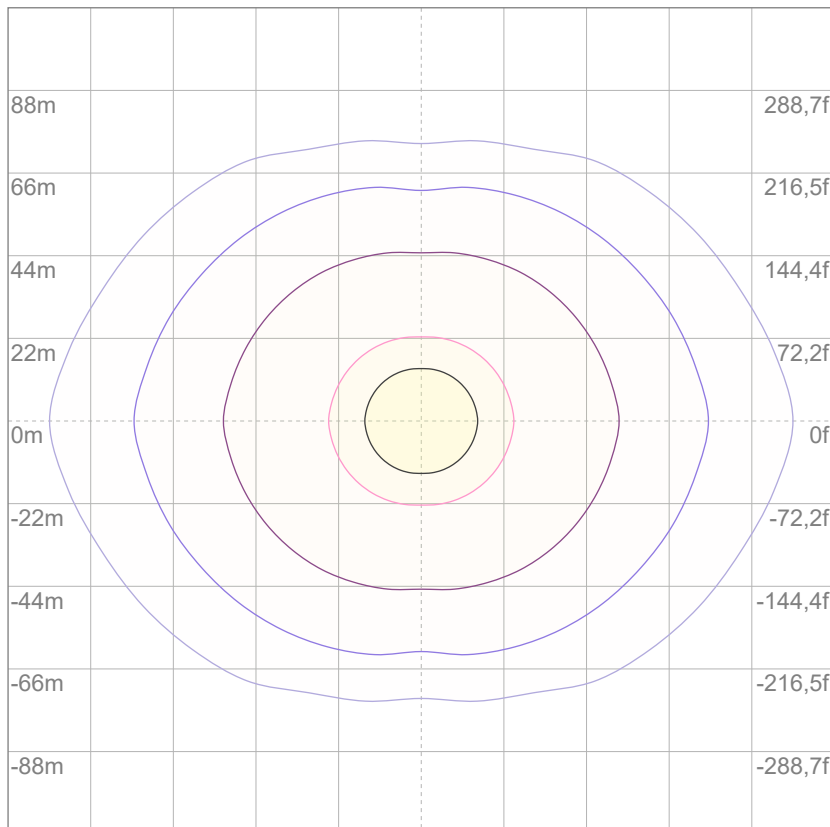
10%	216 cd
20%	433 cd
30%	649 cd
40%	866 cd
50%	1082 cd
60%	1299 cd
70%	1515 cd
80%	1732 cd

Conditions:

Number of c-planes: 4

Candela at center: 2165 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,649 lx
5%	1,08 lx
10%	2,16 lx
30%	6,49 lx
50%	10,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 21,6 lx

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



Total lumen output:

7142 lm

Peak candela output:

2893 cd

Light quality:

CRI: 94,3

Color temperature:

5759 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

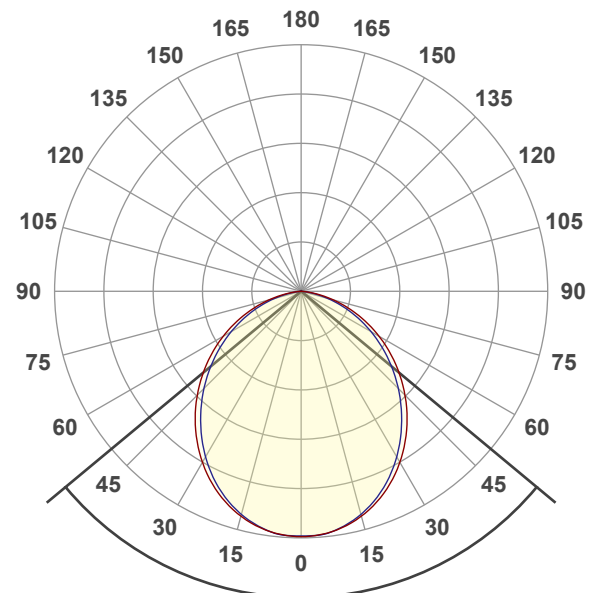
MEASURAMENT CONDITIONS:

Beam angle:
Filter MD

Target:
5600K HQ

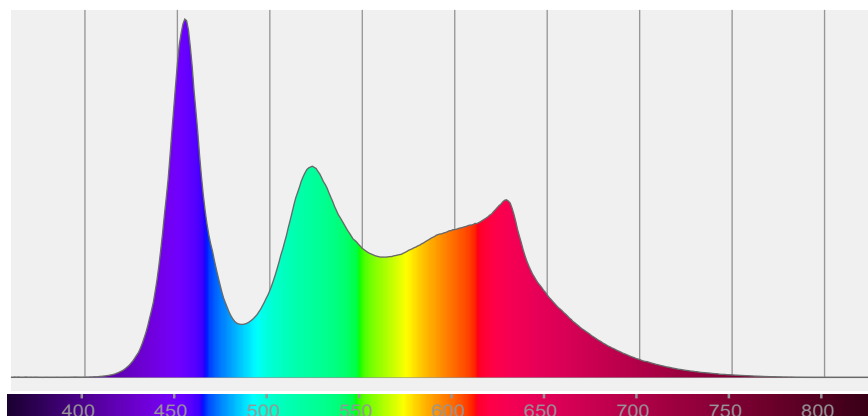
Operator:
Paolo Carvone

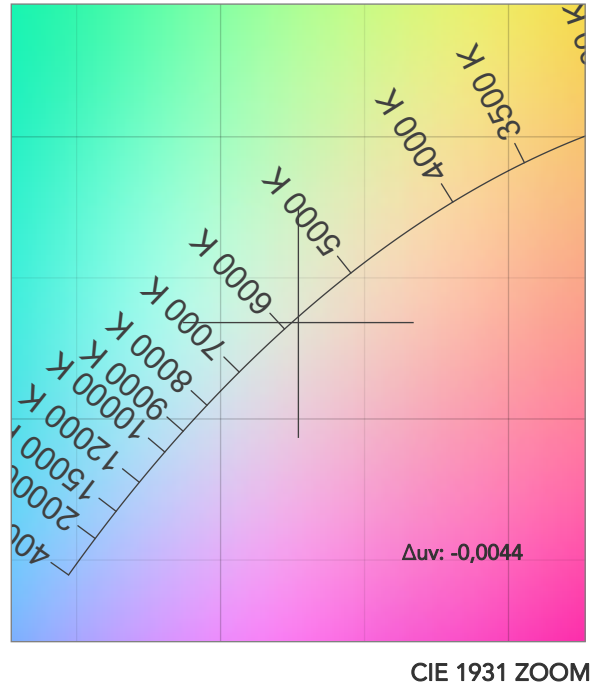
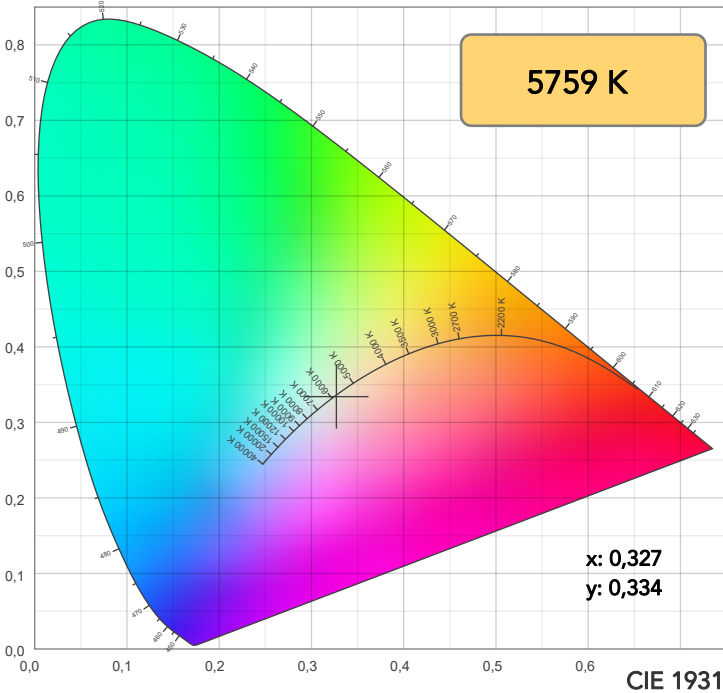
Date and time:
10/01/2022 13:15:27



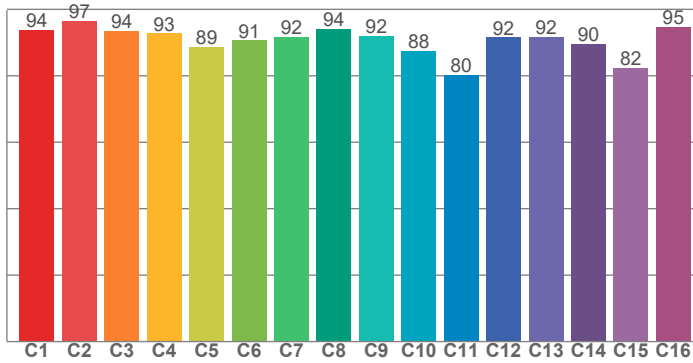
Beam angle 50%: 100,5°
Field angle 10%: 153,4°
Cut off angle 2.5%: 166,3°

Spectra

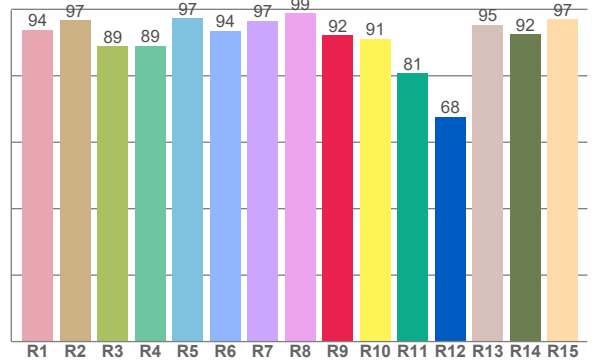




TM30: 90,5



CRI: 94,3 (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
93,9	96,7	88,8	89,0	97,2	93,5	96,5	98,8	92,2	91,2	80,8	67,7	95,4	92,5	97,1

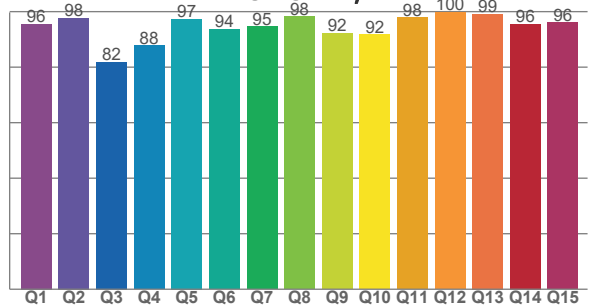
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,8	96,5	93,6	92,8	88,6	90,7	91,6	94,1	92,0	87,6	80,2	91,6	91,7	89,7	82,4	94,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,6	97,7	81,9	87,8	97,3	93,6	94,7	98,2	92,2	91,7	97,8	99,7	99,2	95,6	96,1

CQS: 92,9



COLOR PARAMETERS

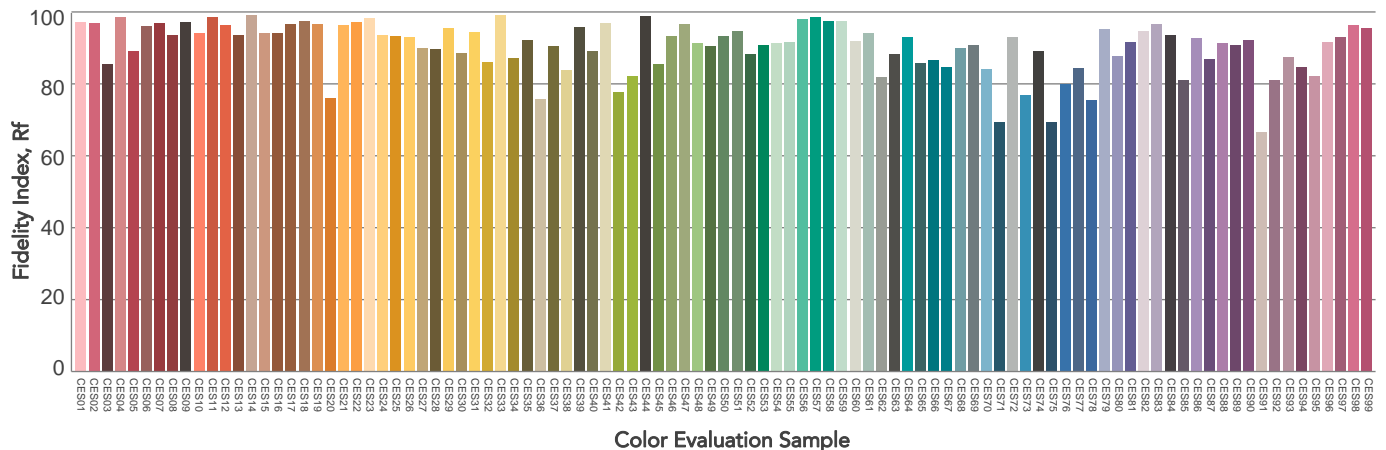
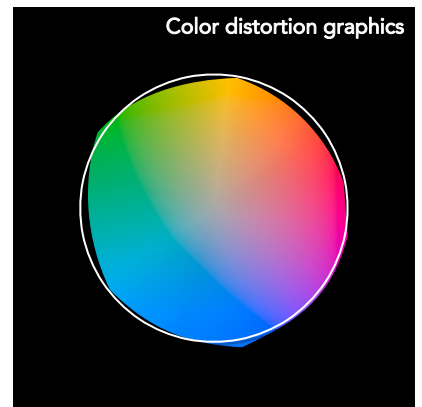
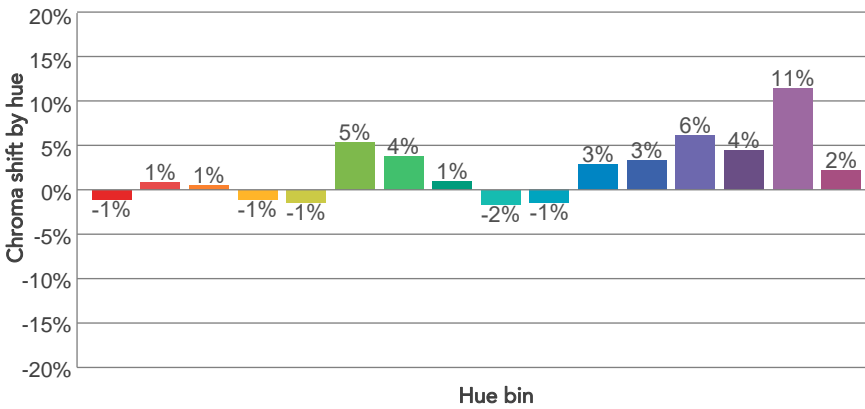
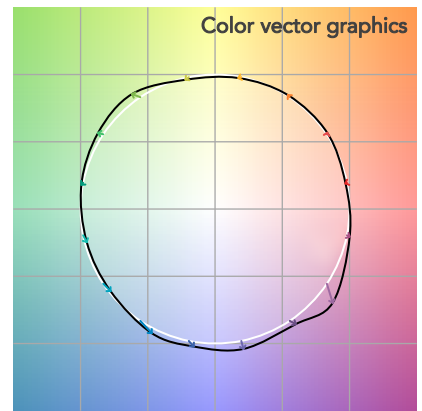
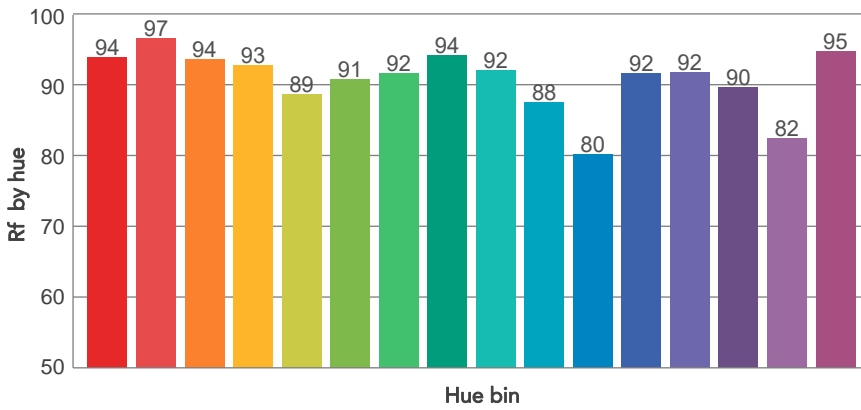
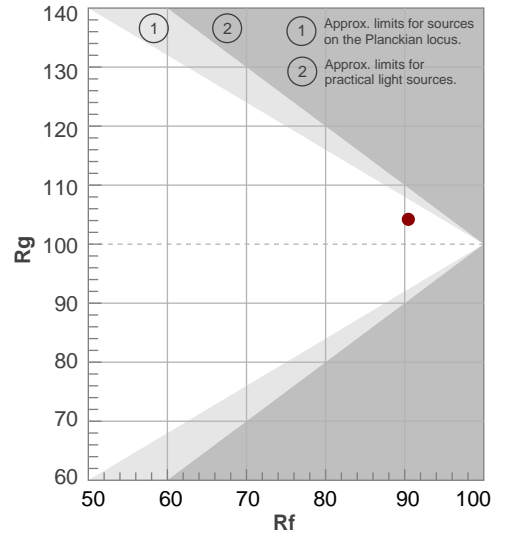
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5759 K	94,3	92,2	90,5	104,2	92,9	91	0,327	0,334	-0,0044

TM30 DETAILS

Rf 90,5
Fidelity index Rf

Rg 104,2
Gammut index

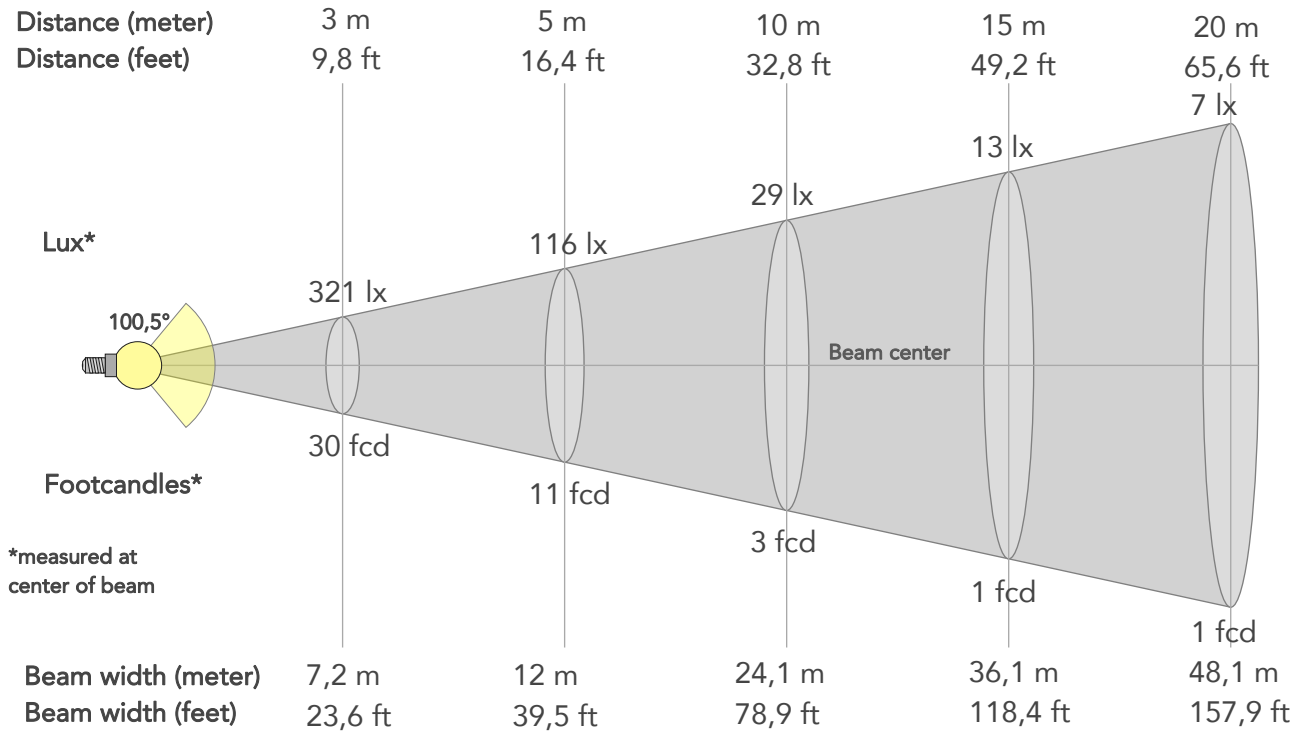
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	0%
2	97	1%	1%
3	94	1%	2%
4	93	-1%	2%
5	89	-1%	3%
6	91	5%	4%
7	92	4%	1%
8	94	1%	2%
9	92	-2%	5%
10	88	-1%	8%
11	80	3%	12%
12	92	3%	4%
13	92	6%	0%
14	90	4%	2%
15	82	11%	-9%
16	95	2%	-1%



BEAM DETAILS



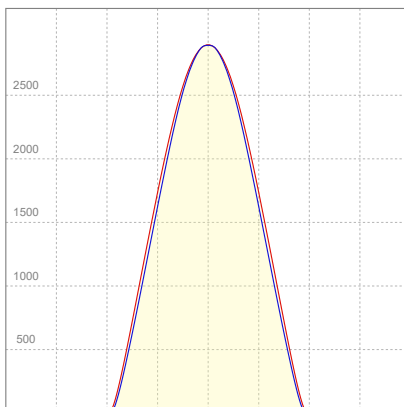
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
100,5°	153,4°	166,3°	82,4%	58,2%



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	2890lx	722lx	321lx	181lx	116lx	51lx	29lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	268fcd	67fcd	30fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,4m	4,8m	7,2m	9,6m	12m	18,1m	24,1m	36,1m	48,1m	60,2m	72,2m	96,3m	120,3m
Beam wid.	7,9ft	15,9ft	23,6ft	31,5ft	39,5ft	59,2ft	78,9ft	118,4ft	157,9ft	197,4ft	236,8ft	315,8ft	394,7ft

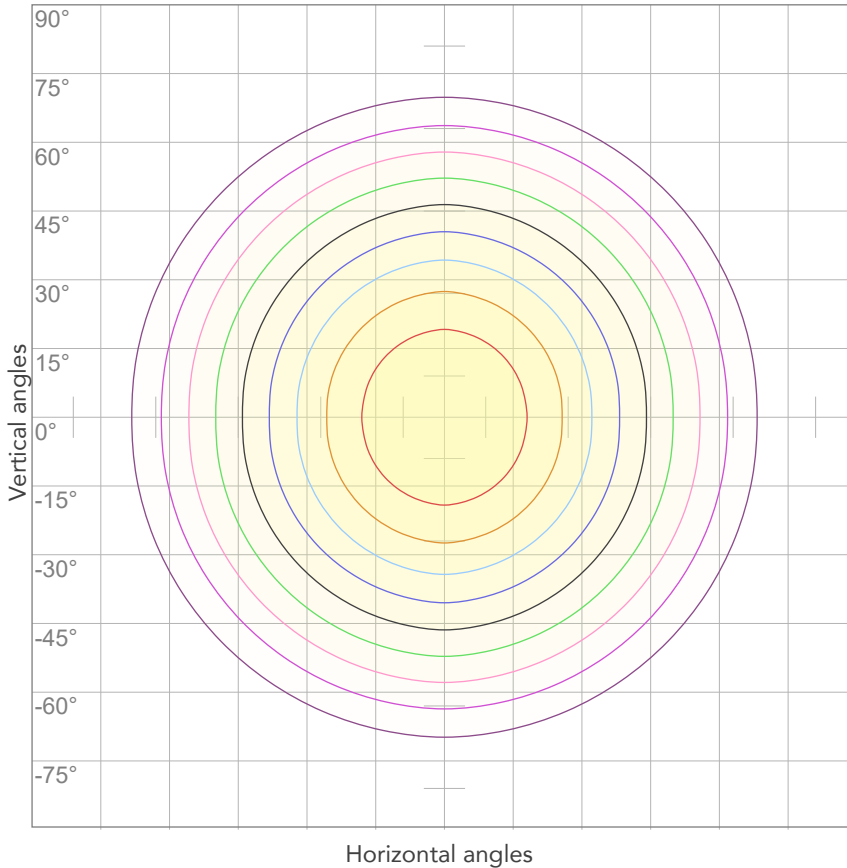
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,547A	114,7W	62lm/W

ISO CANDELA DIAGRAM



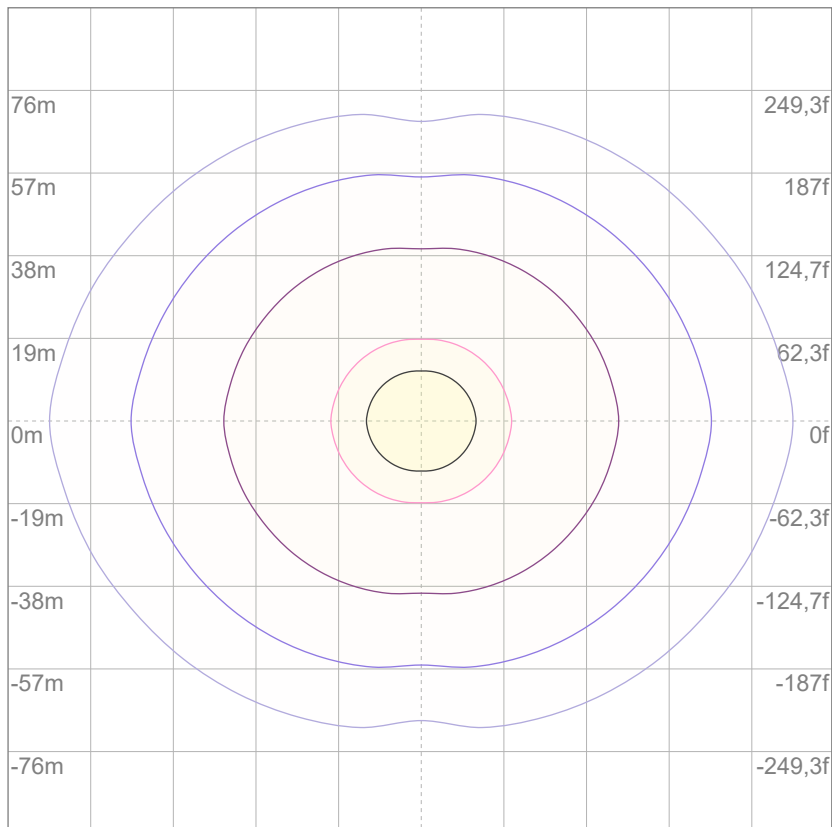
10%	289 cd
20%	578 cd
30%	867 cd
40%	1156 cd
50%	1445 cd
60%	1734 cd
70%	2023 cd
80%	2312 cd

Conditions:

Number of c-planes: 4

Candela at center: 2890 cd

ISO LUX DIAGRAM



3%	0,867 lx
5%	1,44 lx
10%	2,89 lx
30%	8,67 lx
50%	14,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 28,9 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:

7287 lm

Peak candela output:

3024 cd

Light quality:

CRI: 94,4

Color temperature:

5815 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

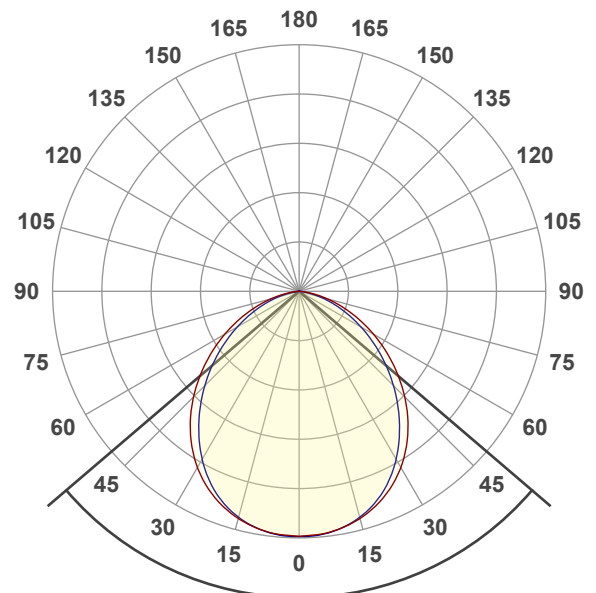
MEASURAMENT CONDITIONS:

Beam angle:
Filter LD

Target:
5600K HQ

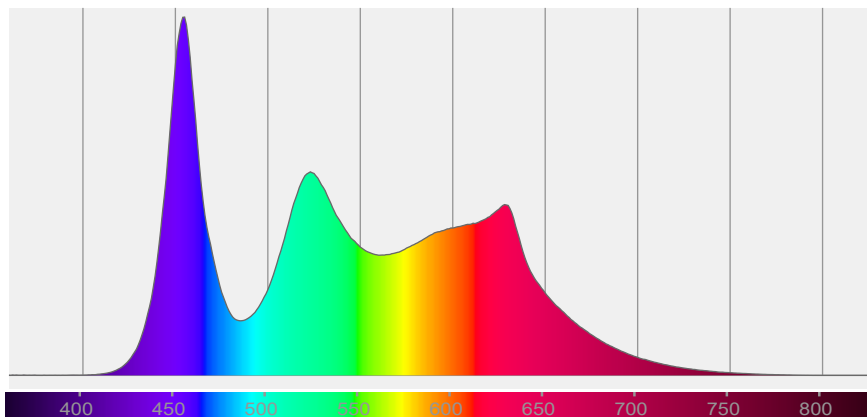
Operator:
Paolo Carvone

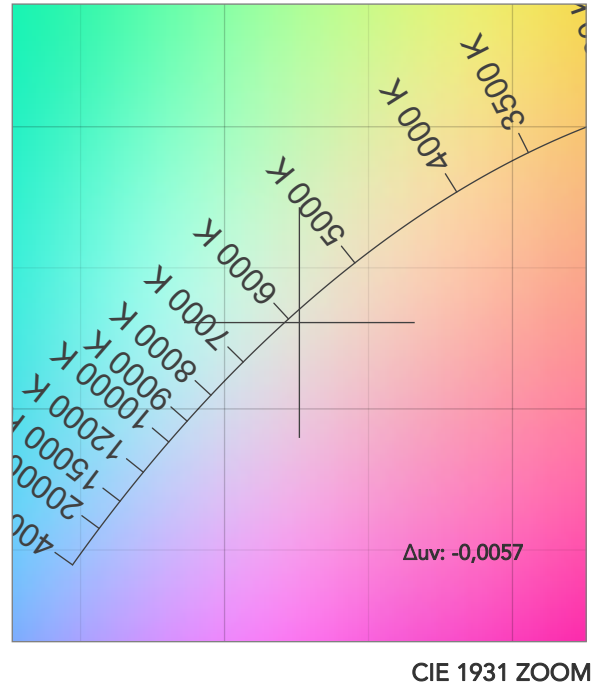
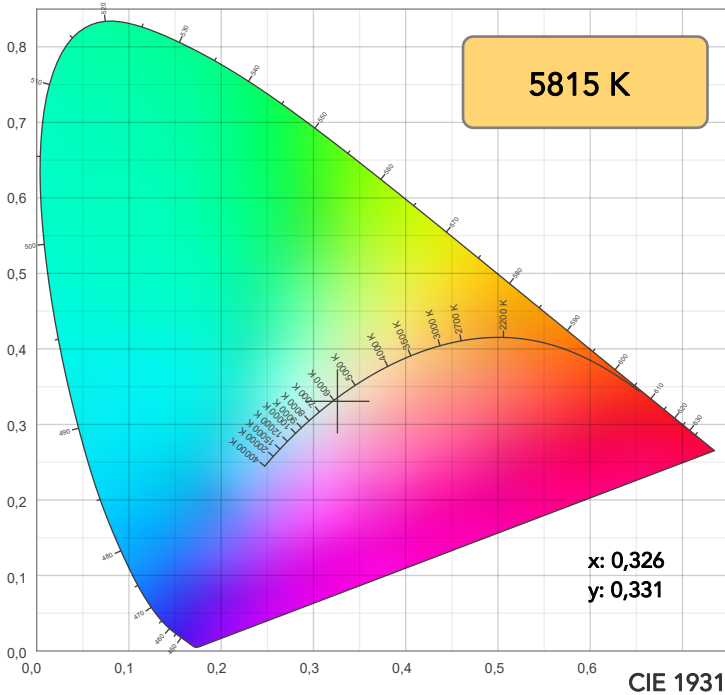
Date and time:
10/01/2022 14:22:36



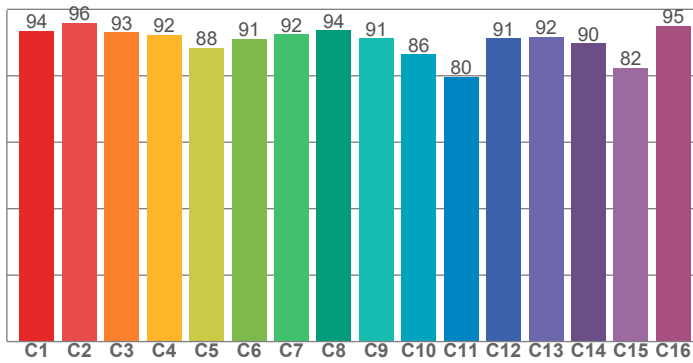
Beam angle 50%: 99°
Field angle 10%: 150,4°
Cut off angle 2.5%: 164,6°

Spectra

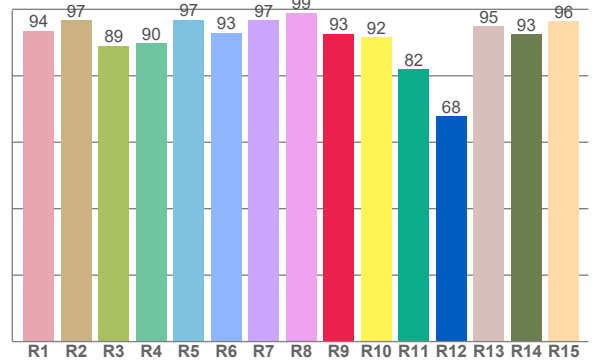




TM30: 90,2



CRI: 94,4 (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
93,6	96,7	89,1	89,9	96,8	93,0	96,8	99,0	92,6	91,6	82,1	67,7	95,0	92,6	96,5

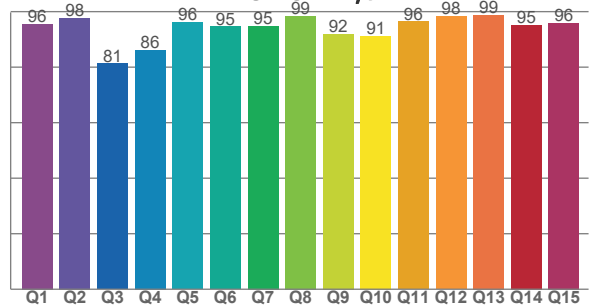
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,5	95,9	93,1	92,3	88,4	91,1	92,5	93,7	91,3	86,5	79,7	91,3	91,6	89,8	82,3	95,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,6	97,6	81,2	86,2	96,2	94,6	94,9	98,5	91,9	91,2	96,5	98,3	98,7	95,2	95,9

CQS: 92,5



COLOR PARAMETERS

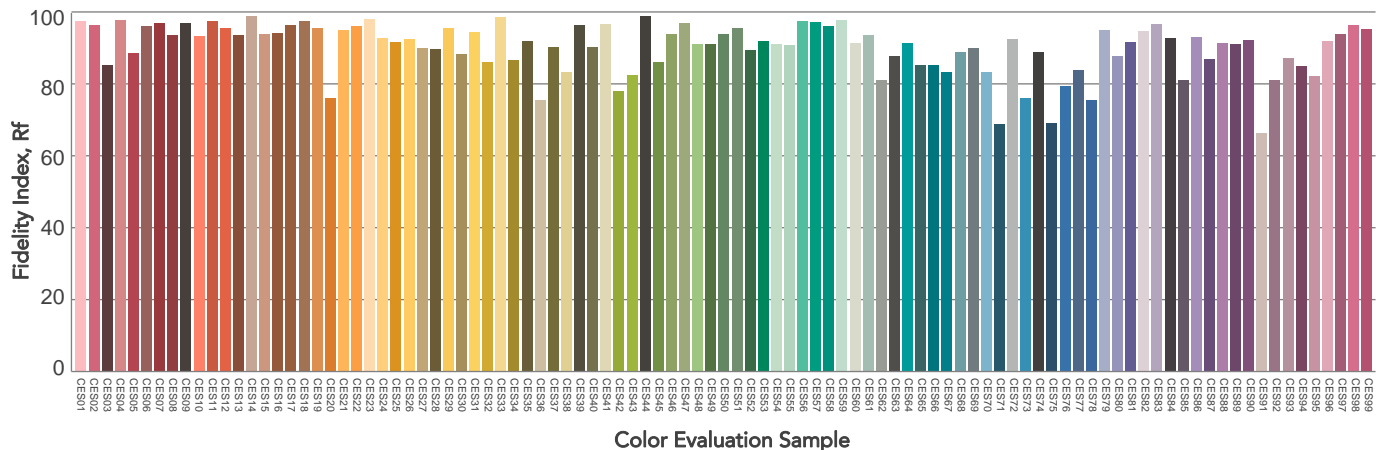
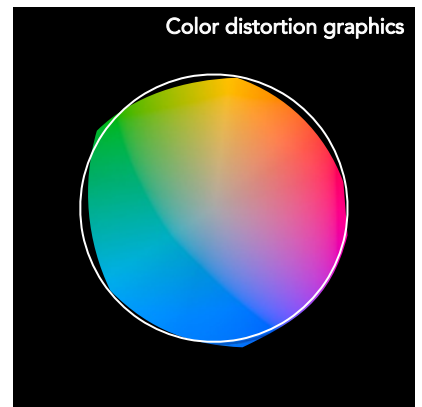
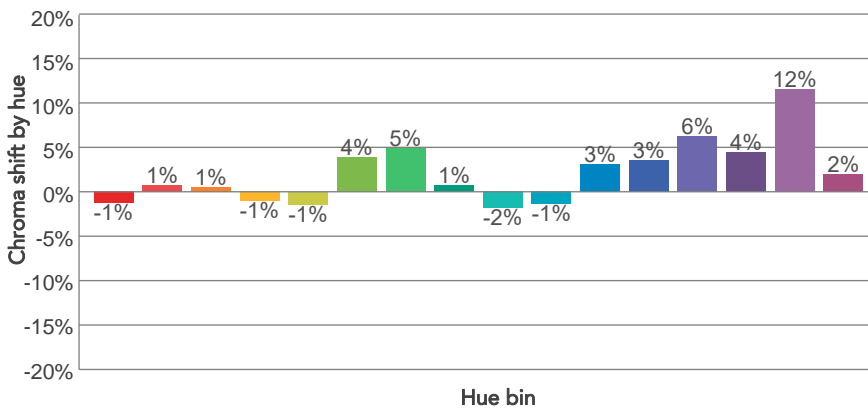
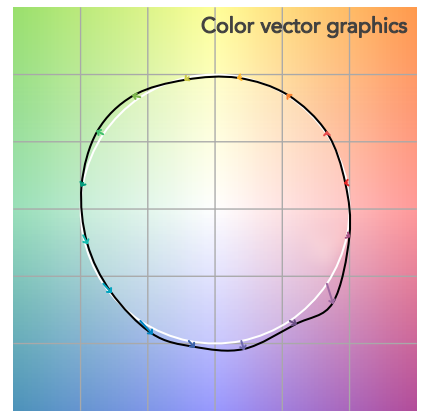
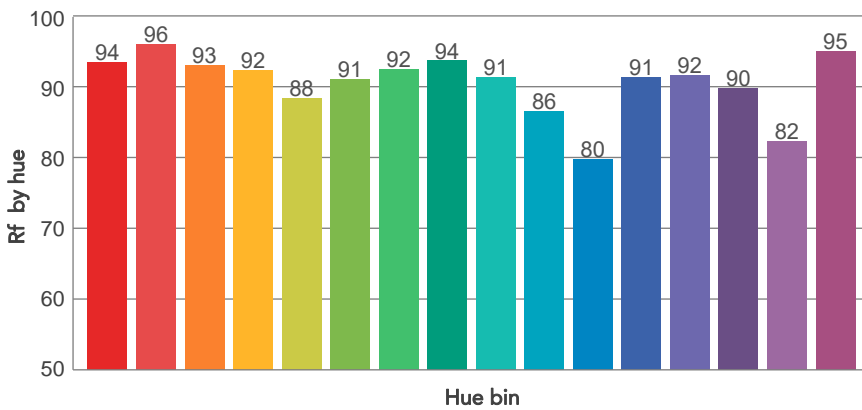
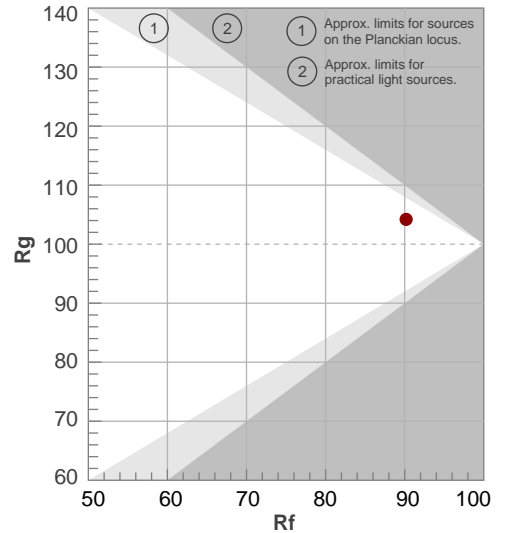
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5815 K	94,4	92,6	90,2	104,2	92,5	92	0,326	0,331	-0,0057

TM30 DETAILS

Rf 90,2
Fidelity index Rf

Rg 104,2
Gammut index

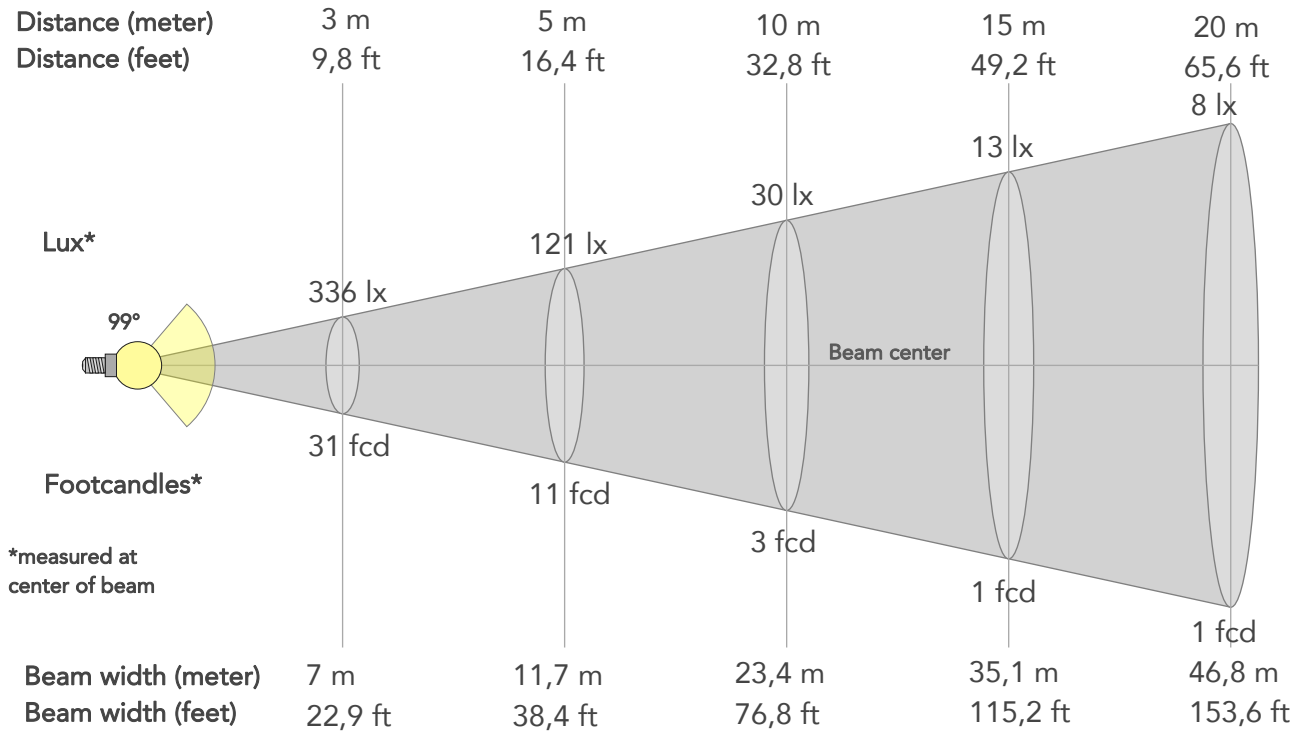
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	0%
2	96	1%	1%
3	93	1%	2%
4	92	-1%	2%
5	88	-1%	3%
6	91	4%	4%
7	92	5%	1%
8	94	1%	2%
9	91	-2%	6%
10	86	-1%	8%
11	80	3%	12%
12	91	3%	5%
13	92	6%	1%
14	90	4%	2%
15	82	12%	-9%
16	95	2%	0%



BEAM DETAILS



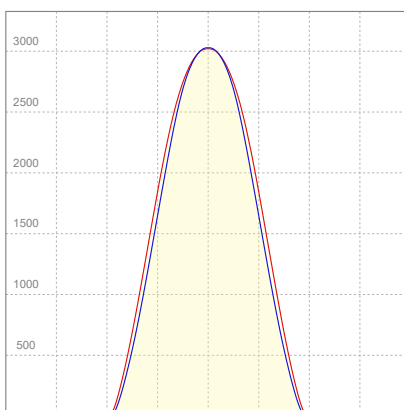
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
99°	150,4°	164,6°	84,4%	60,4%



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	3022lx	756lx	336lx	189lx	121lx	54lx	30lx	13lx	8lx	5lx	3lx	2lx	1lx
Footcand.	281fcd	70fcd	31fcd	18fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,3m	4,7m	7m	9,4m	11,7m	17,6m	23,4m	35,1m	46,8m	58,5m	70,2m	93,6m	117m
Beam wid.	7,7ft	15,4ft	22,9ft	30,7ft	38,4ft	57,6ft	76,8ft	115,2ft	153,6ft	192ft	230,3ft	307,1ft	383,9ft

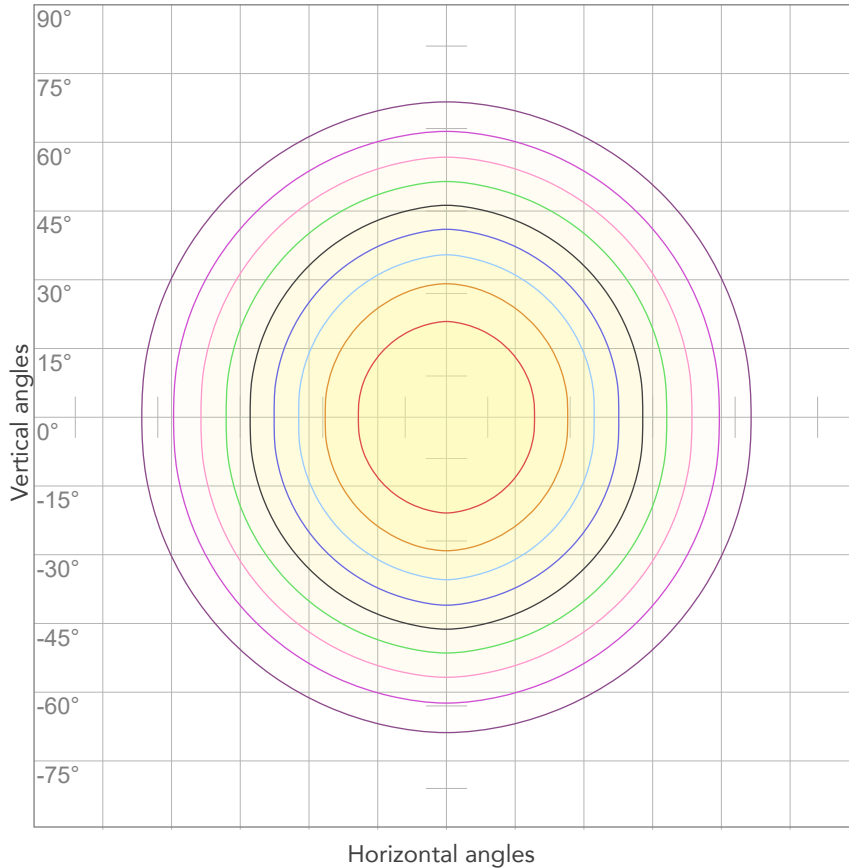
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,549A	114W	64lm/W

ISO CANDELA DIAGRAM



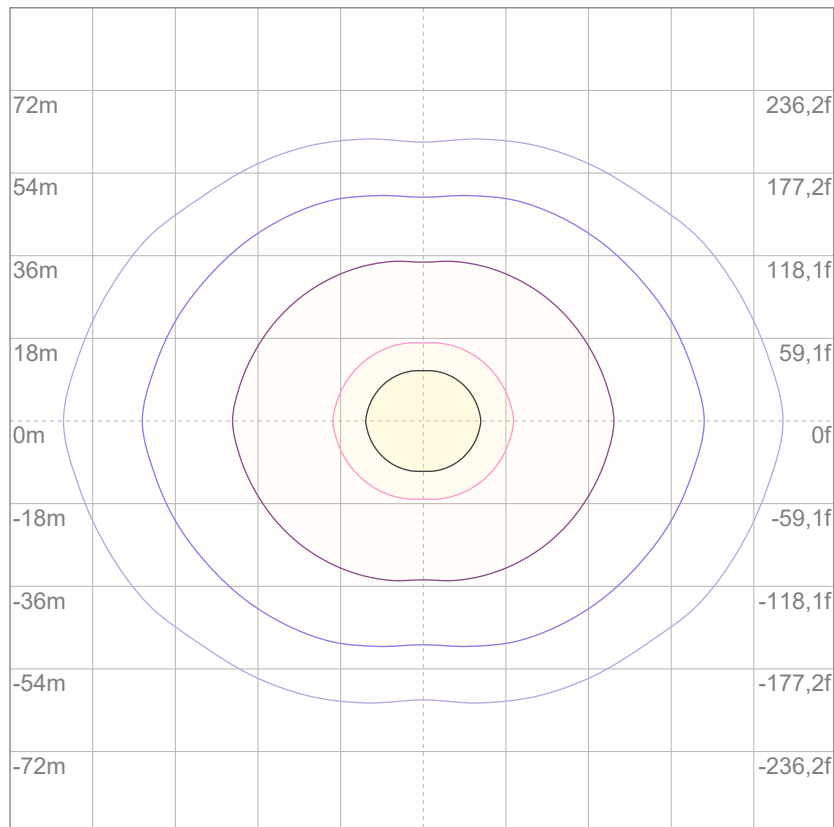
10%	302 cd
20%	604 cd
30%	907 cd
40%	1209 cd
50%	1511 cd
60%	1813 cd
70%	2116 cd
80%	2418 cd

Conditions:

Number of c-planes: 4

Candela at center: 3022 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,907 lx
5%	1,51 lx
10%	3,02 lx
30%	9,07 lx
50%	15,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 30,2 lx

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



Total lumen output:

6258 lm

Peak candela output:

4050 cd

Light quality:

CRI: 94,5

Color temperature:

5762 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

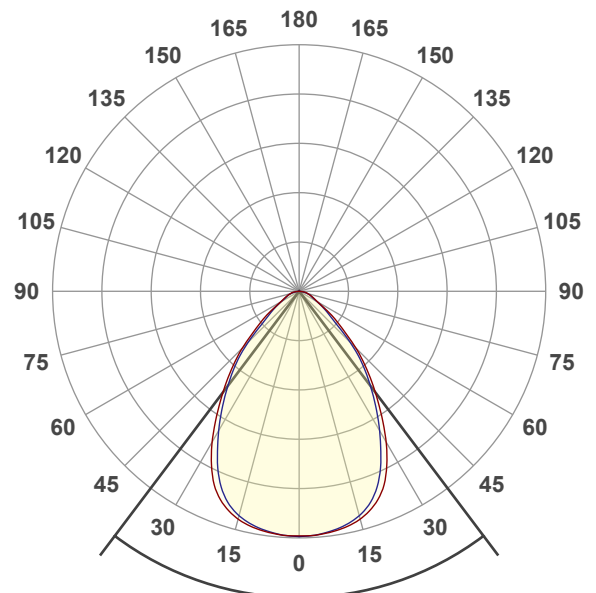
MEASURAMENT CONDITIONS:

Beam angle:
Filter INT

Target:
5600K HQ

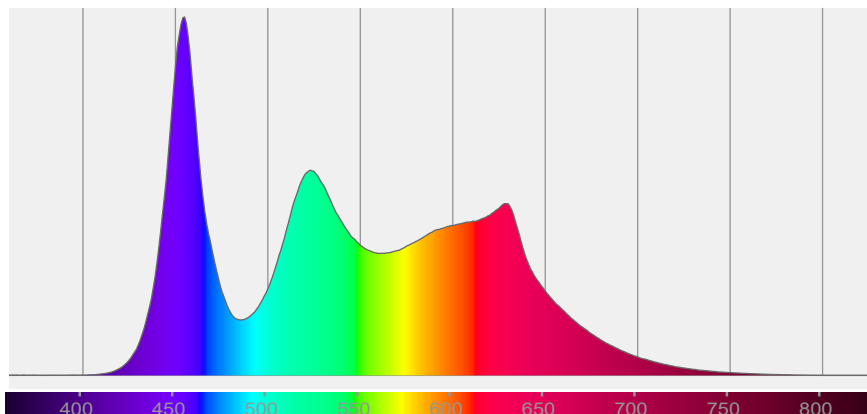
Operator:
Paolo Carvone

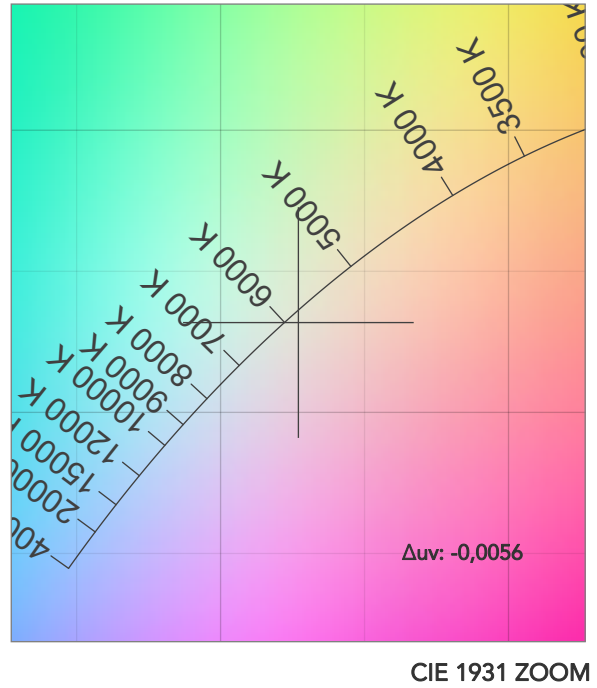
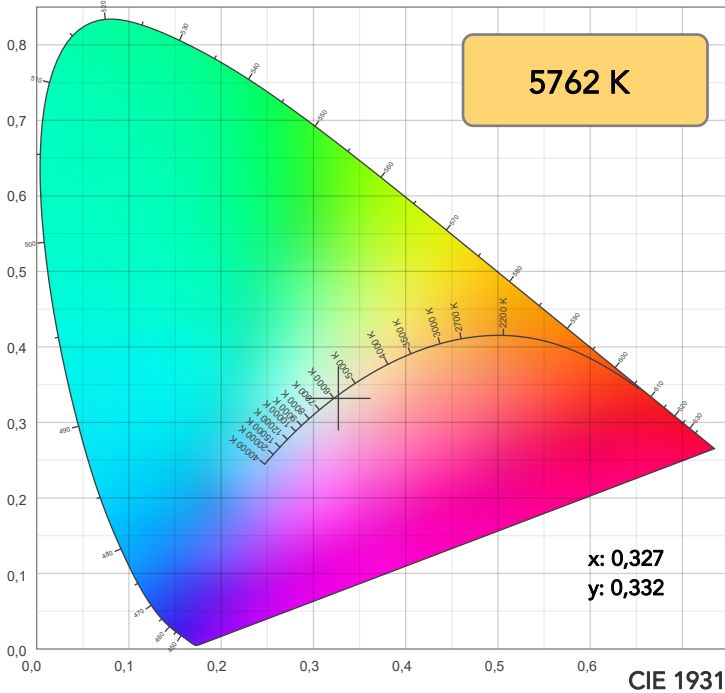
Date and time:
10/01/2022 14:54:43



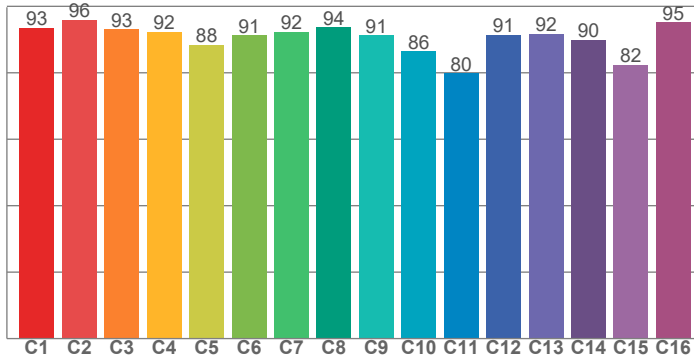
Beam angle 50%: 74°
Field angle 10%: 116,5°
Cut off angle 2.5%: 158,1°

Spectra

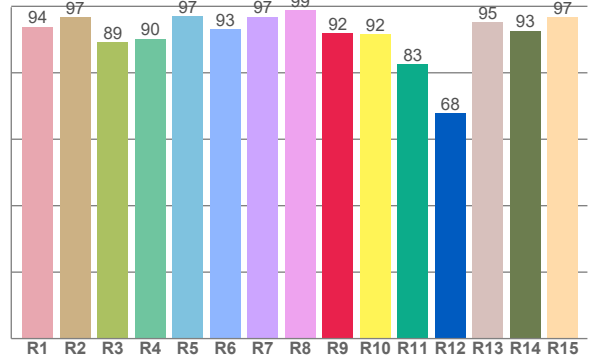




TM30: 90,2



CRI: 94,5 (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
93,9	96,8	89,3	90,2	97,0	93,1	96,9	98,8	91,9	91,6	82,5	67,8	95,2	92,7	96,8

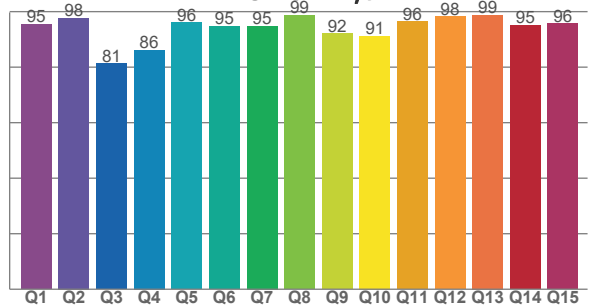
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,5	96,0	93,1	92,3	88,4	91,2	92,3	93,7	91,3	86,4	79,8	91,4	91,7	90,0	82,4	95,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,4	97,7	81,3	86,2	96,0	94,7	94,8	98,7	92,0	91,2	96,5	98,3	98,7	95,1	95,7

CQS: 92,5



COLOR PARAMETERS

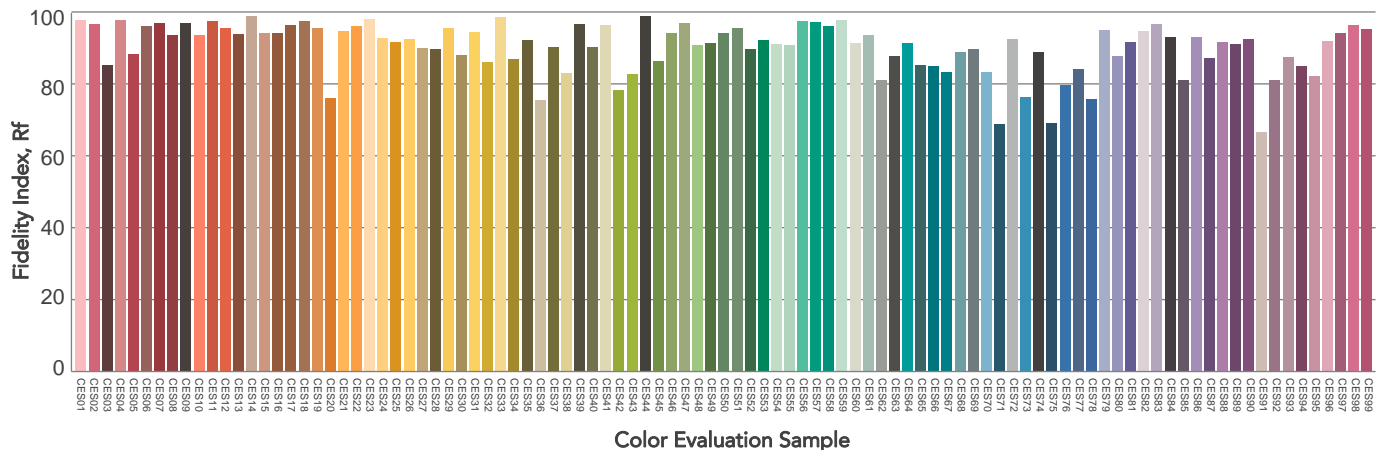
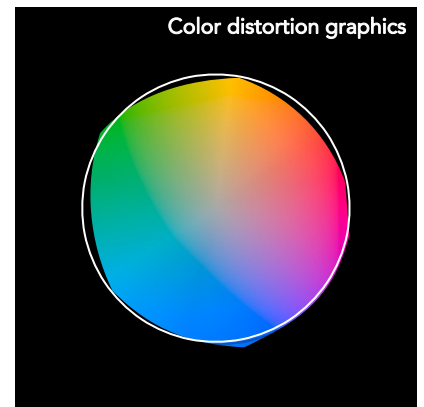
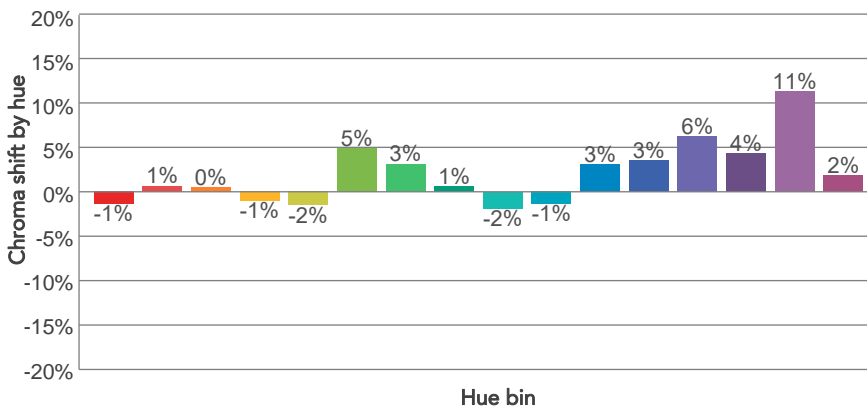
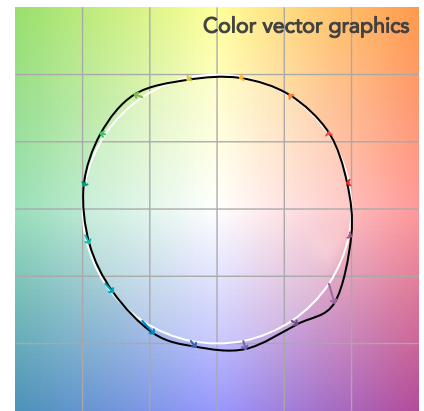
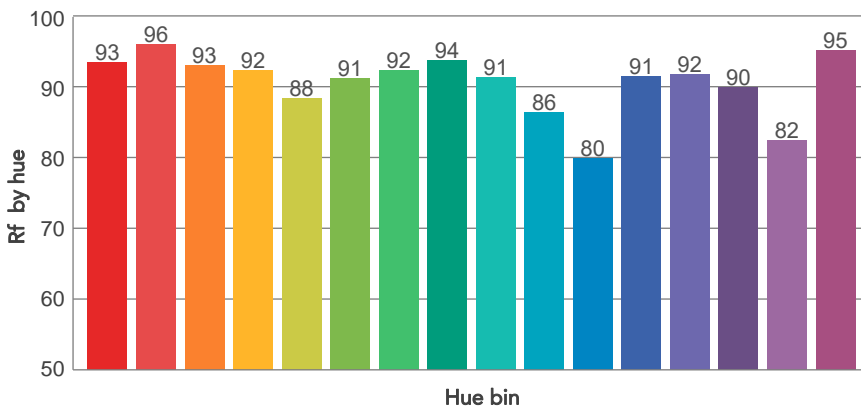
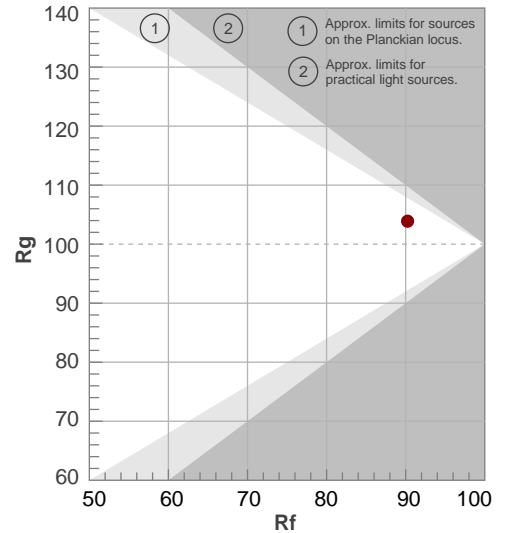
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5762 K	94,5	91,9	90,2	103,9	92,5	92	0,327	0,332	-0,0056

TM30 DETAILS

Rf 90,2
Fidelity index Rf

Rg 103,9
Gammut index

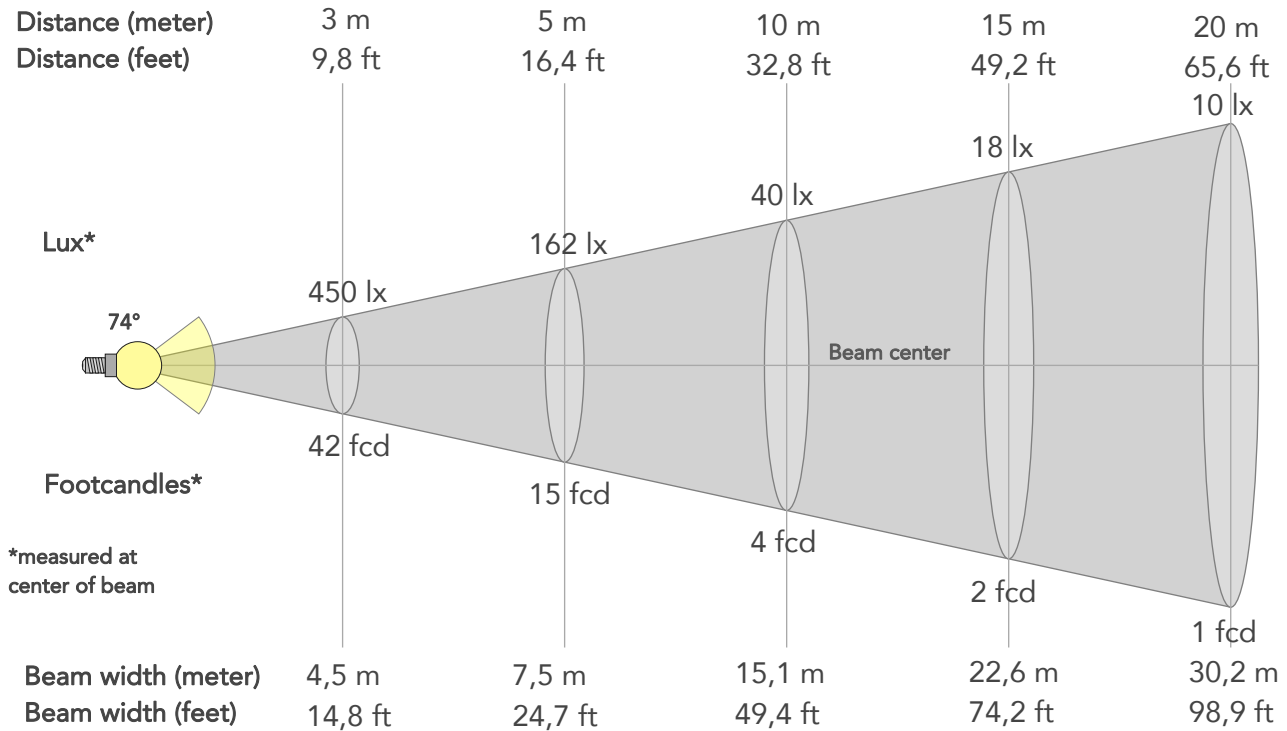
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-1%	0%
2	96	1%	1%
3	93	0%	2%
4	92	-1%	2%
5	88	-2%	3%
6	91	5%	4%
7	92	3%	1%
8	94	1%	2%
9	91	-2%	6%
10	86	-1%	8%
11	80	3%	12%
12	91	3%	4%
13	92	6%	1%
14	90	4%	2%
15	82	11%	-9%
16	95	2%	0%



BEAM DETAILS



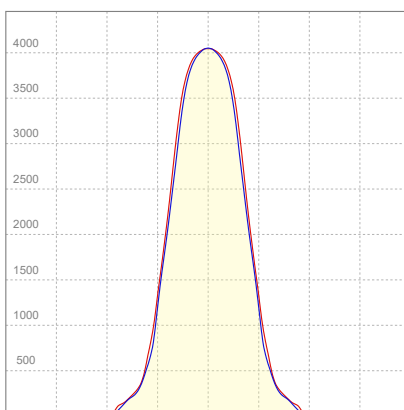
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74°	116,5°	158,1°	92,9%	78,5%



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	4046lx	1012lx	450lx	253lx	162lx	72lx	40lx	18lx	10lx	6lx	4lx	3lx	2lx
Footcand.	376fcd	94fcd	42fcd	23fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,5m	6m	7,5m	11,3m	15,1m	22,6m	30,2m	37,7m	45,2m	60,3m	75,4m
Beam wid.	5ft	10ft	14,8ft	19,7ft	24,7ft	37,1ft	49,4ft	74,2ft	98,9ft	123,6ft	148,3ft	197,8ft	247,2ft

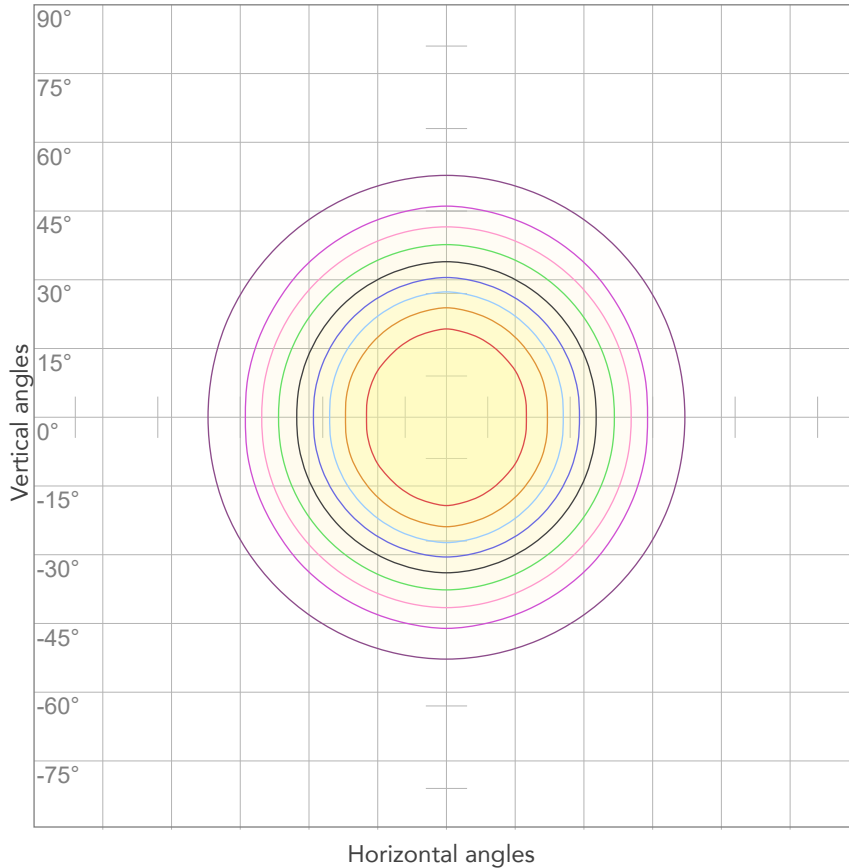
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,541A	113,7W	55lm/W

ISO CANDELA DIAGRAM



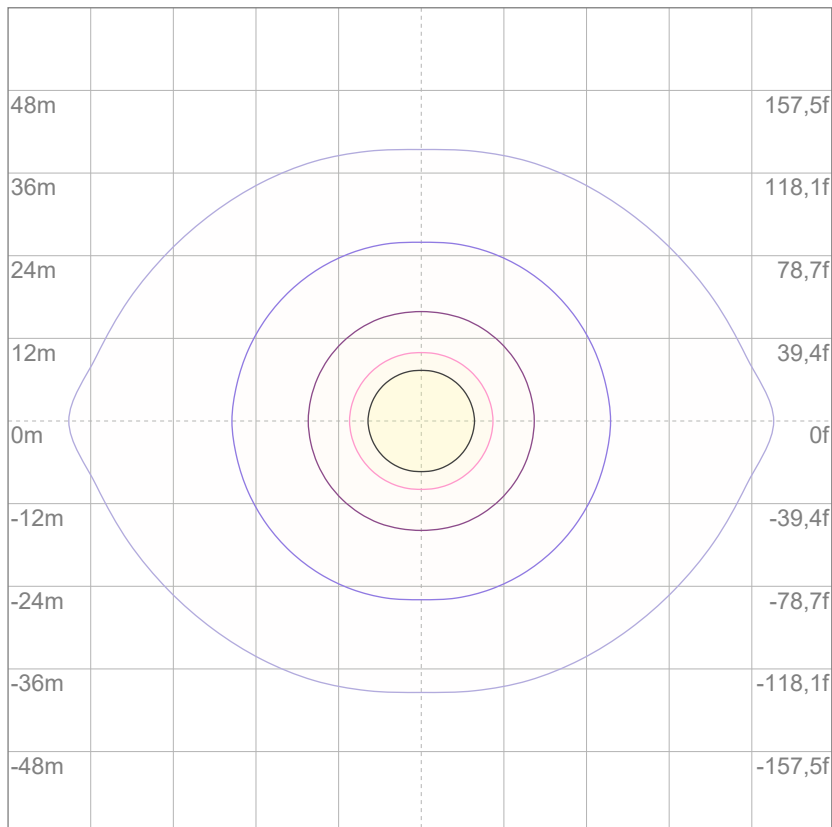
10%	405 cd
20%	809 cd
30%	1214 cd
40%	1619 cd
50%	2023 cd
60%	2428 cd
70%	2833 cd
80%	3237 cd

Conditions:

Number of c-planes: 4

Candela at center: 4046 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,21 lx
5%	2,02 lx
10%	4,05 lx
30%	12,1 lx
50%	20,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 40,5 lx

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



Total lumen output:

5902 lm

Peak candela output:

2141 cd

Light quality:

CRI: 93,2

Color temperature:

6526 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

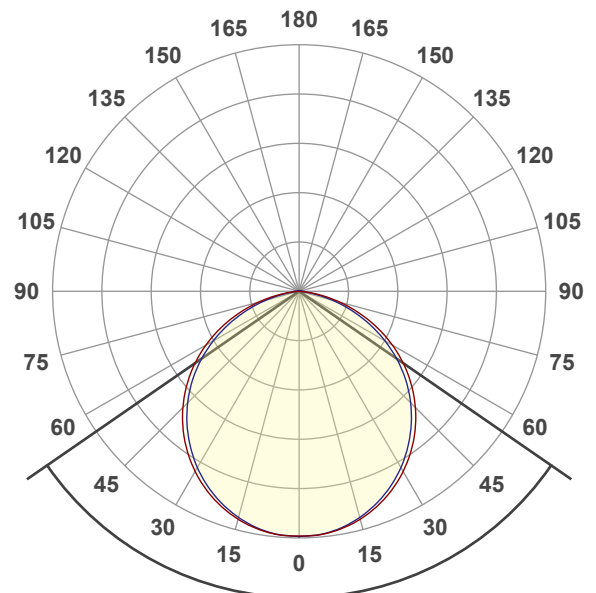
MEASUREMENT CONDITIONS:

Beam angle:
Filter HD

Target:
6000K HQ

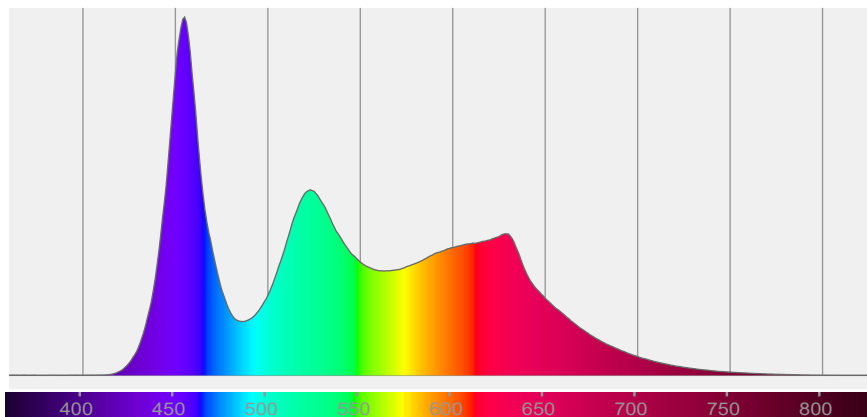
Operator:
Paolo Carvone

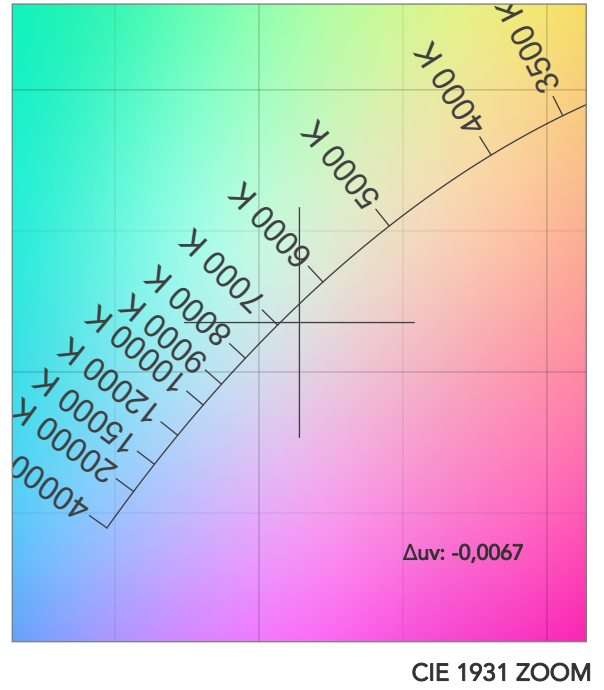
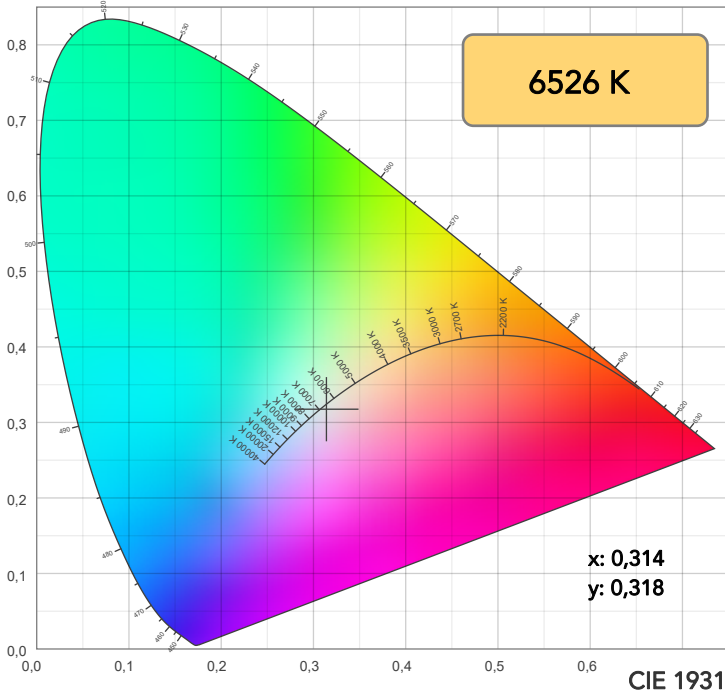
Date and time:
10/01/2022 15:49:14



Beam angle 50%: 110,7°
Field angle 10%: 156,7°
Cut off angle 2.5%: 167,6°

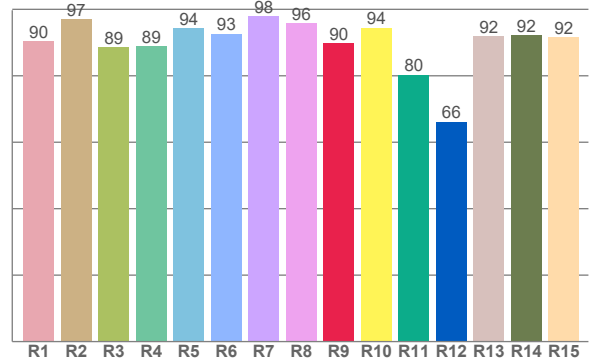
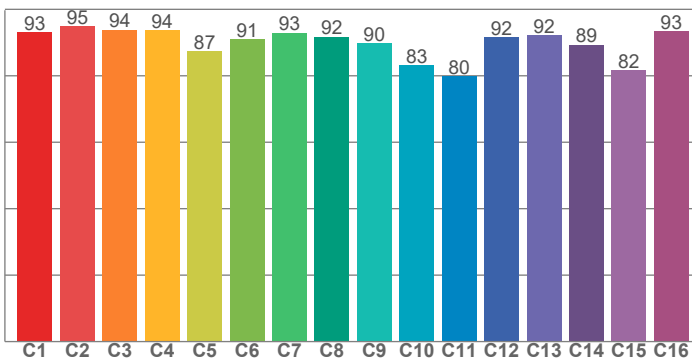
Spectra





TM30: 89,7

CRI: 93,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
90,3	97,0	88,7	88,8	94,3	92,6	98,0	95,7	89,9	94,4	80,3	66,1	92,0	92,2	91,6

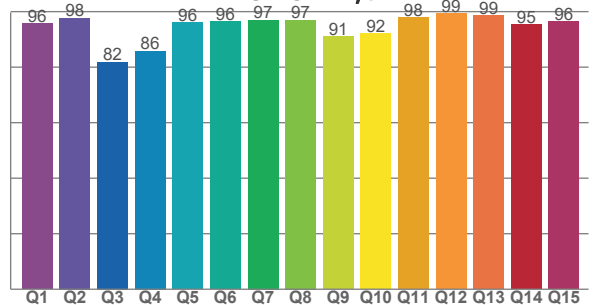
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,0	94,9	93,9	93,6	87,3	90,9	93,0	91,6	89,7	83,1	79,9	91,5	92,2	89,3	81,7	93,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,7	97,8	81,8	85,8	96,1	96,4	97,0	97,0	91,0	92,1	97,8	99,3	98,6	95,4	96,4

CQS: 92,8



COLOR PARAMETERS

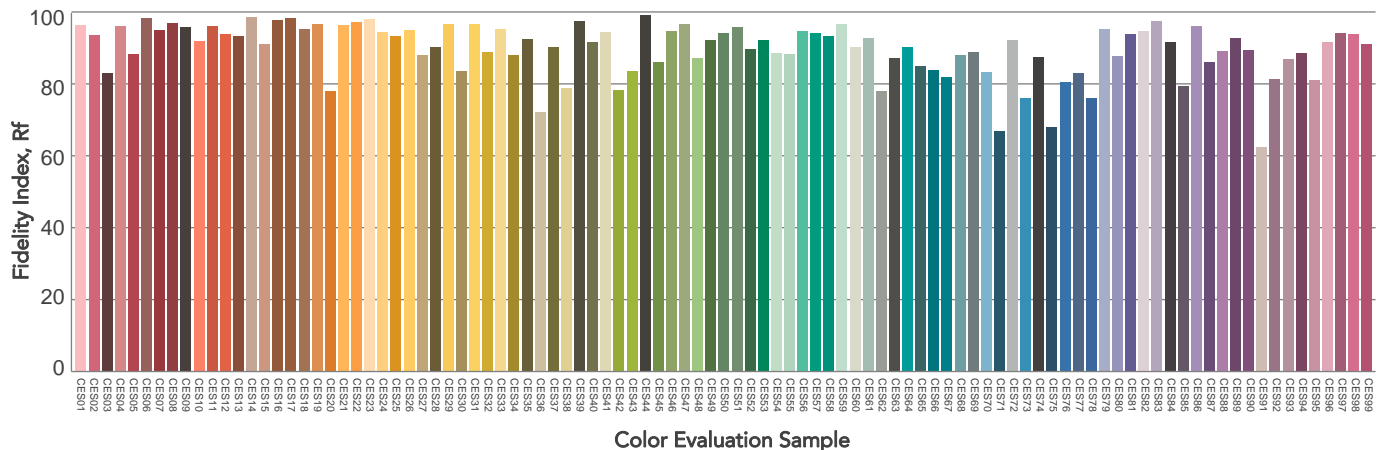
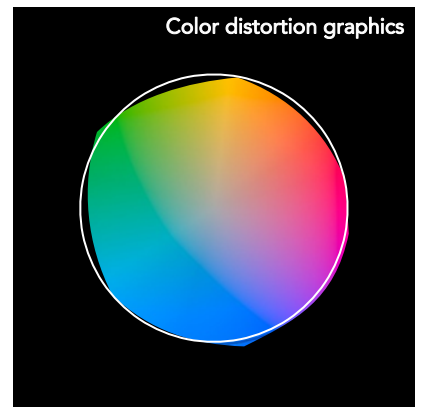
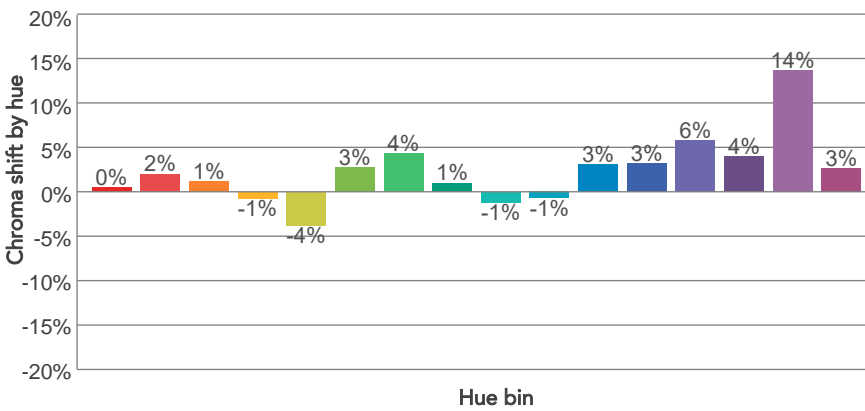
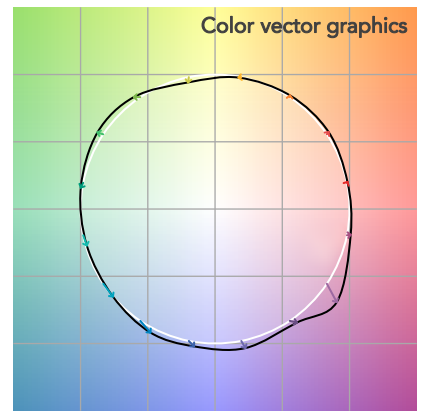
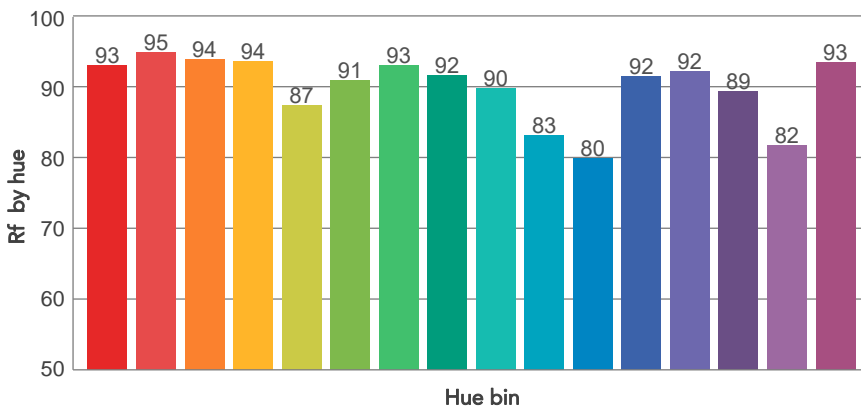
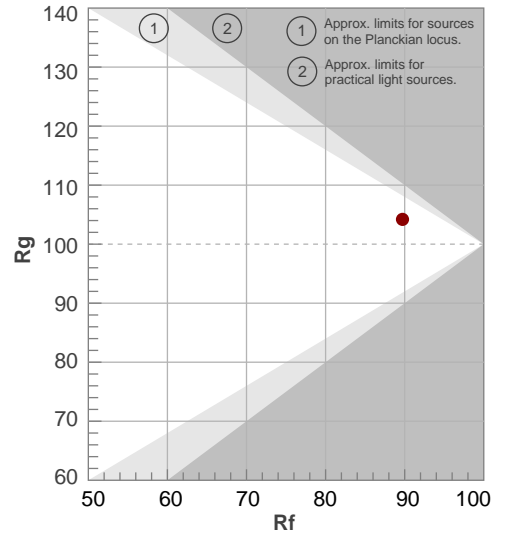
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6526 K	93,2	89,9	89,7	104,2	92,8	93	0,314	0,318	-0,0067

TM30 DETAILS

Rf 89,7
Fidelity index Rf

Rg 104,2
Gammut index

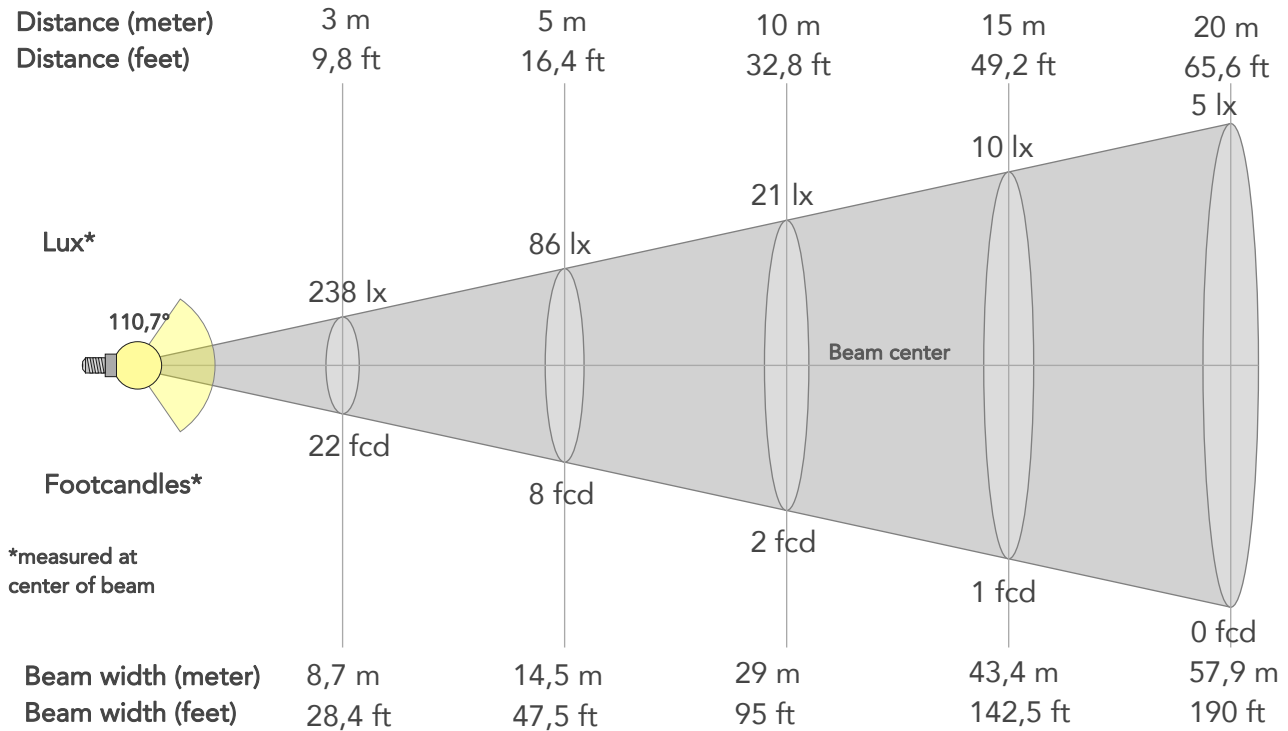
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	1%
2	95	2%	1%
3	94	1%	1%
4	94	-1%	2%
5	87	-4%	1%
6	91	3%	4%
7	93	4%	1%
8	92	1%	4%
9	90	-1%	8%
10	83	-1%	12%
11	80	3%	11%
12	92	3%	5%
13	92	6%	2%
14	89	4%	4%
15	82	14%	-7%
16	93	3%	1%



BEAM DETAILS



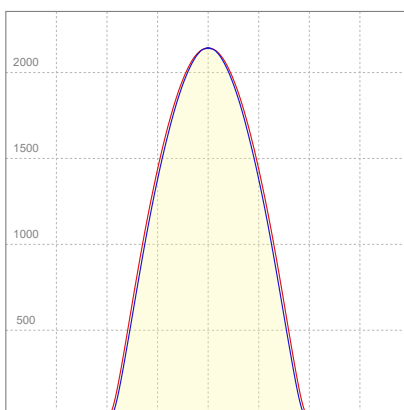
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
110,7°	156,7°	167,6°	80,6%	55,1%



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	2140lx	535lx	238lx	134lx	86lx	38lx	21lx	10lx	5lx	3lx	2lx	1lx	1lx
Footcand.	199fcd	50fcd	22fcd	12fcd	8fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,9m	5,8m	8,7m	11,6m	14,5m	21,7m	29m	43,4m	57,9m	72,4m	86,9m	115,8m	144,8m
Beam wid.	9,6ft	19,1ft	28,4ft	37,9ft	47,5ft	71,2ft	95ft	142,5ft	190ft	237,5ft	284,9ft	379,9ft	474,9ft

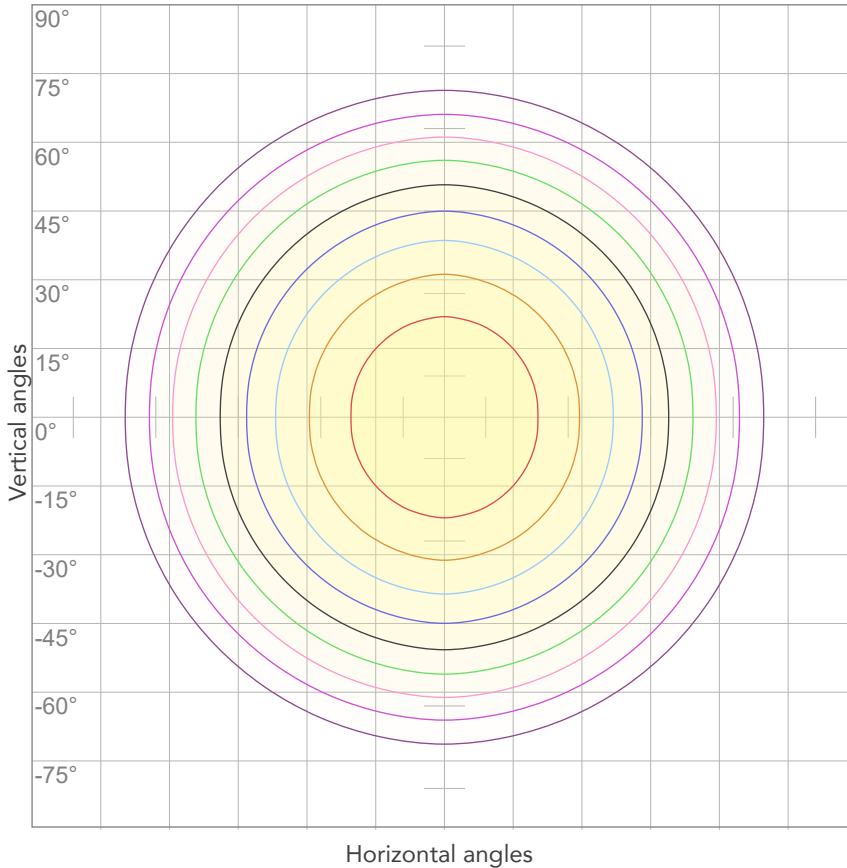
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,541A	112,9W	52lm/W

ISO CANDELA DIAGRAM



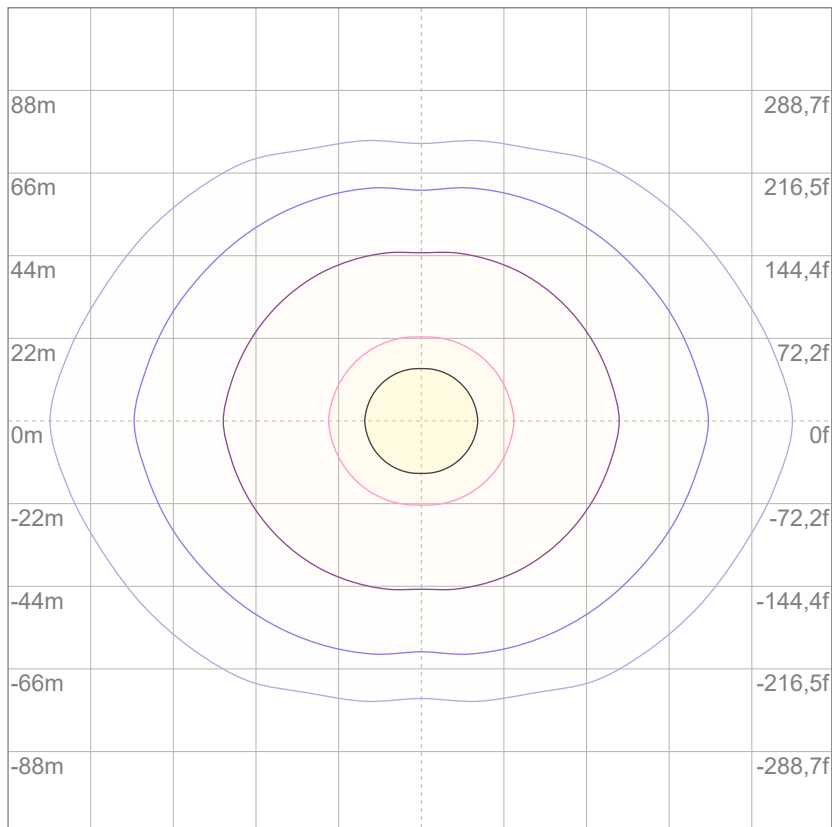
10%	214 cd
20%	428 cd
30%	642 cd
40%	856 cd
50%	1070 cd
60%	1284 cd
70%	1498 cd
80%	1712 cd

Conditions:

Number of c-planes: 4

Candela at center: 2140 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,642 lx
5%	1,07 lx
10%	2,14 lx
30%	6,42 lx
50%	10,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 21,4 lx

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



Total lumen output:

7028 lm

Peak candela output:

2847 cd

Light quality:

CRI: 94,4

Color temperature:

6205 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

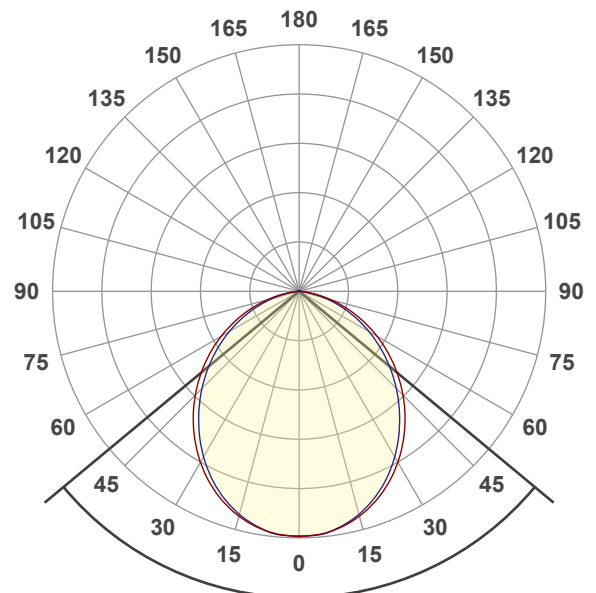
MEASURAMENT CONDITIONS:

Beam angle:
Filter MD

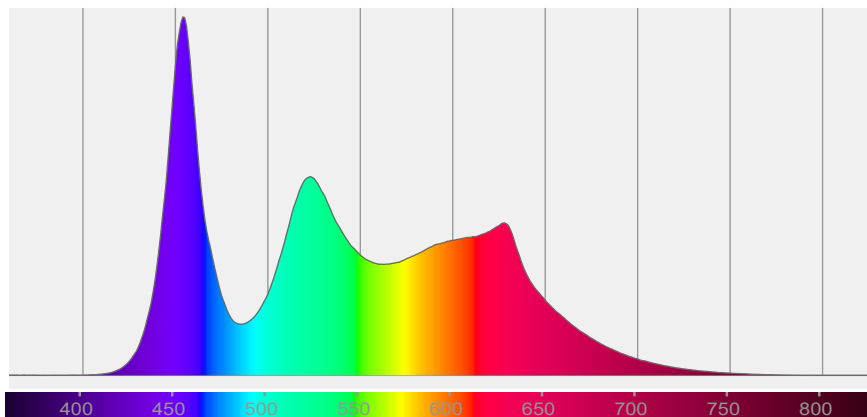
Target:
6000K HQ

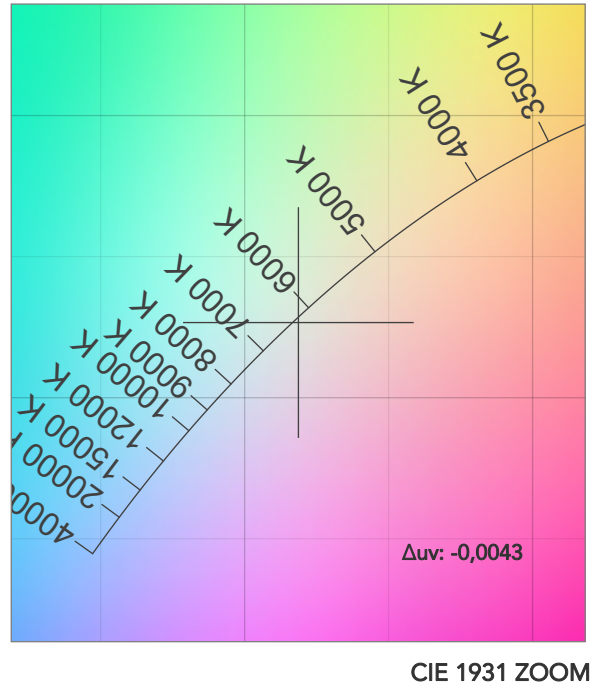
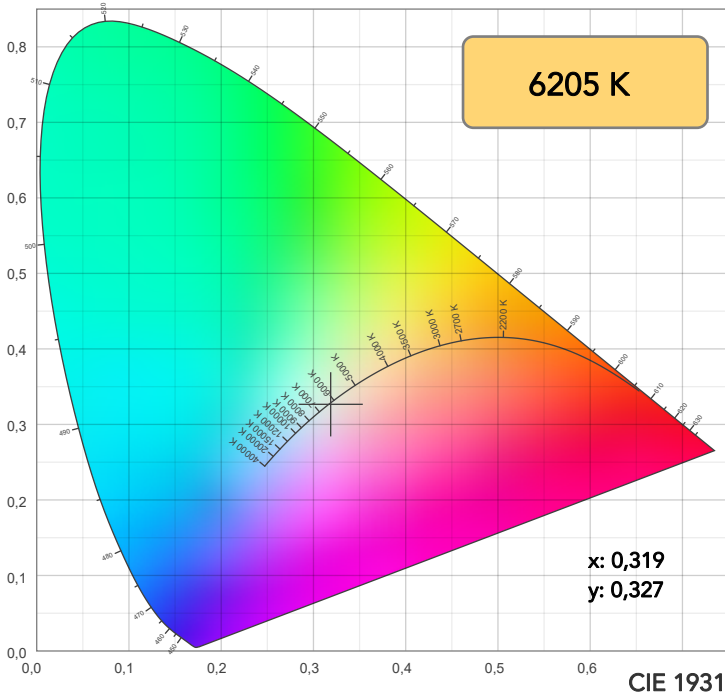
Operator:
Paolo Carvone

Date and time:
10/01/2022 13:17:13

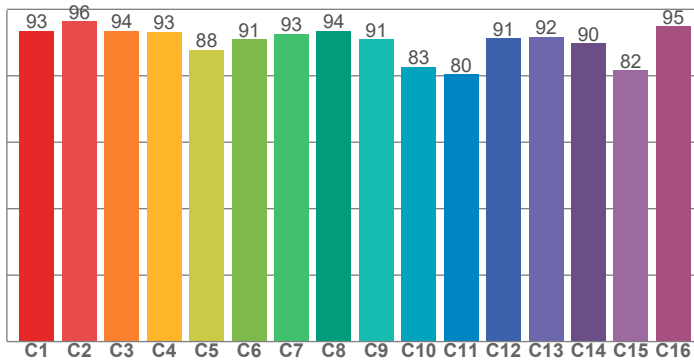


Spectra

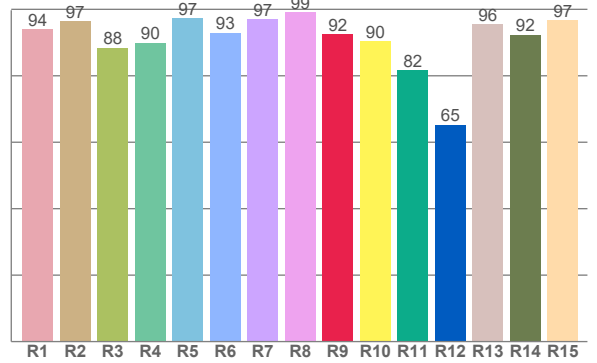




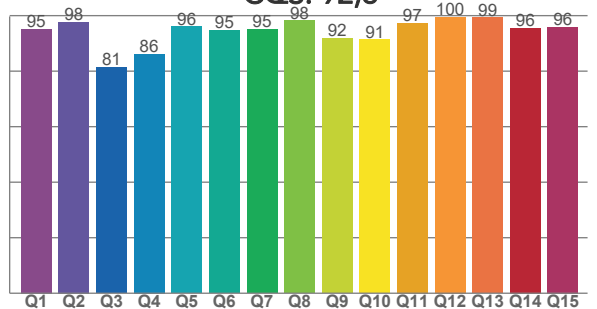
TM30: 90,0



CRI: 94,4 (R1-R8)



CQS: 92,6



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,0	96,5	88,4	89,9	97,4	93,0	97,0	99,1	92,5	90,5	81,6	65,2	95,5	92,3	96,7

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,5	96,4	93,5	93,1	87,8	91,0	92,6	93,6	90,9	82,7	80,5	91,2	91,7	89,8	81,7	94,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,1	97,7	81,4	86,1	96,1	94,7	95,1	98,2	91,8	91,4	97,4	99,5	99,2	95,5	95,9

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6205 K	94,4	92,5	90,0	103,8	92,6	92	0,319	0,327	-0,0043

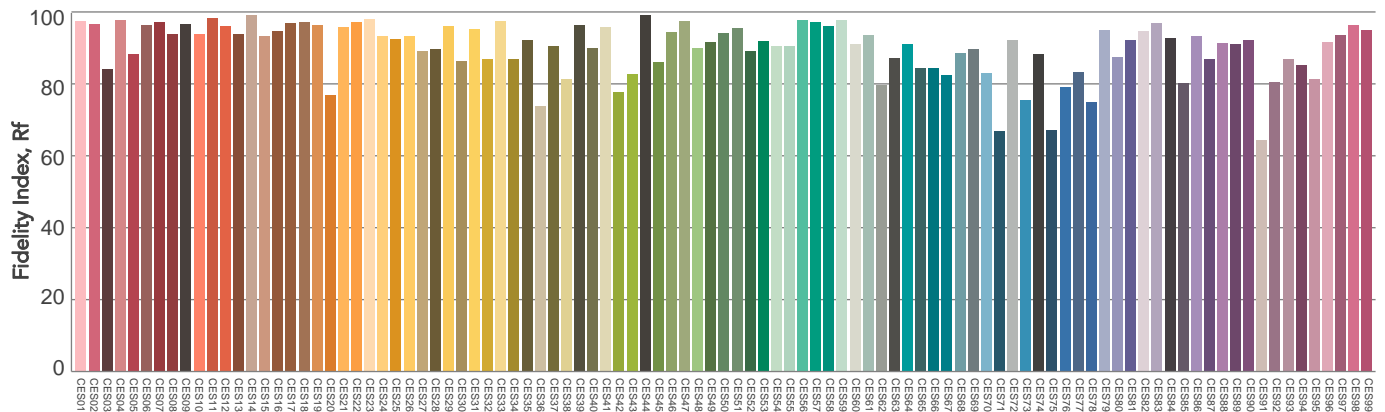
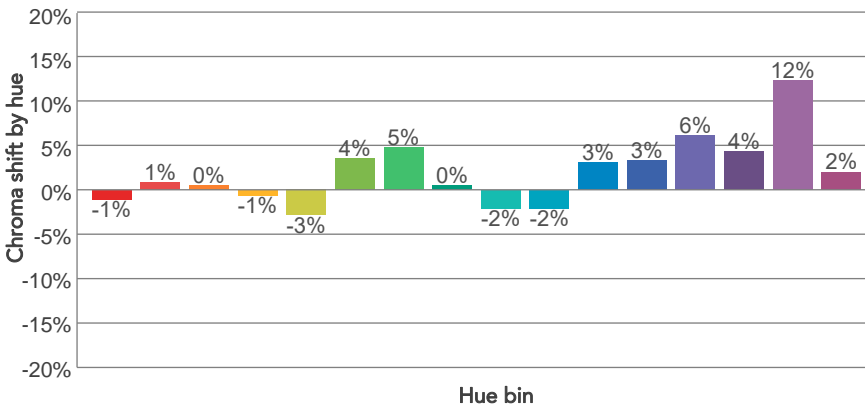
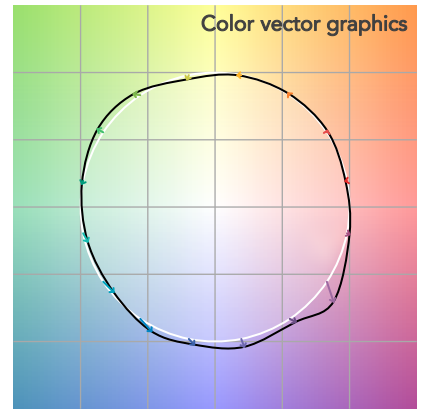
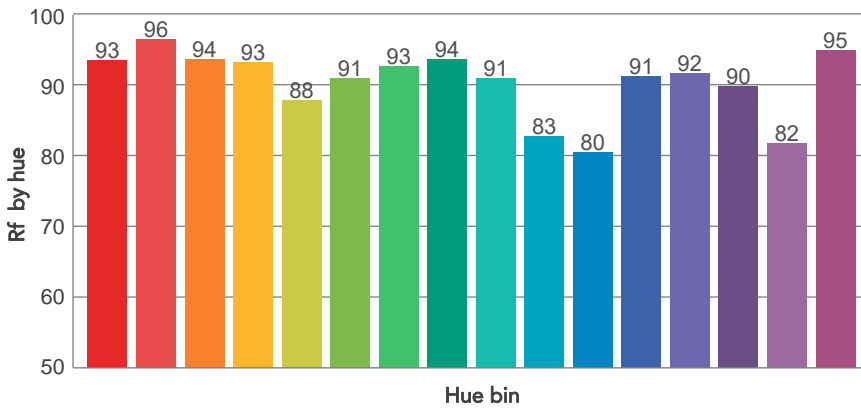
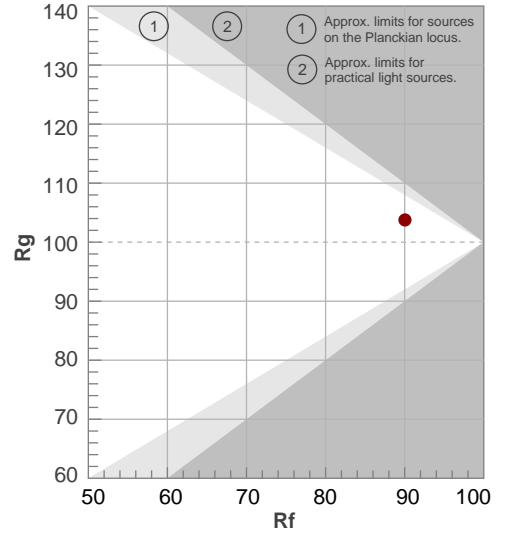
TM30 DETAILS



Rf 90,0
Fidelity index Rf

Rg 103,8
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-1%	0%
2	96	1%	1%
3	94	0%	2%
4	93	-1%	3%
5	88	-3%	2%
6	91	4%	4%
7	93	5%	0%
8	94	0%	2%
9	91	-2%	7%
10	83	-2%	11%
11	80	3%	12%
12	91	3%	5%
13	92	6%	1%
14	90	4%	2%
15	82	12%	-10%
16	95	2%	0%

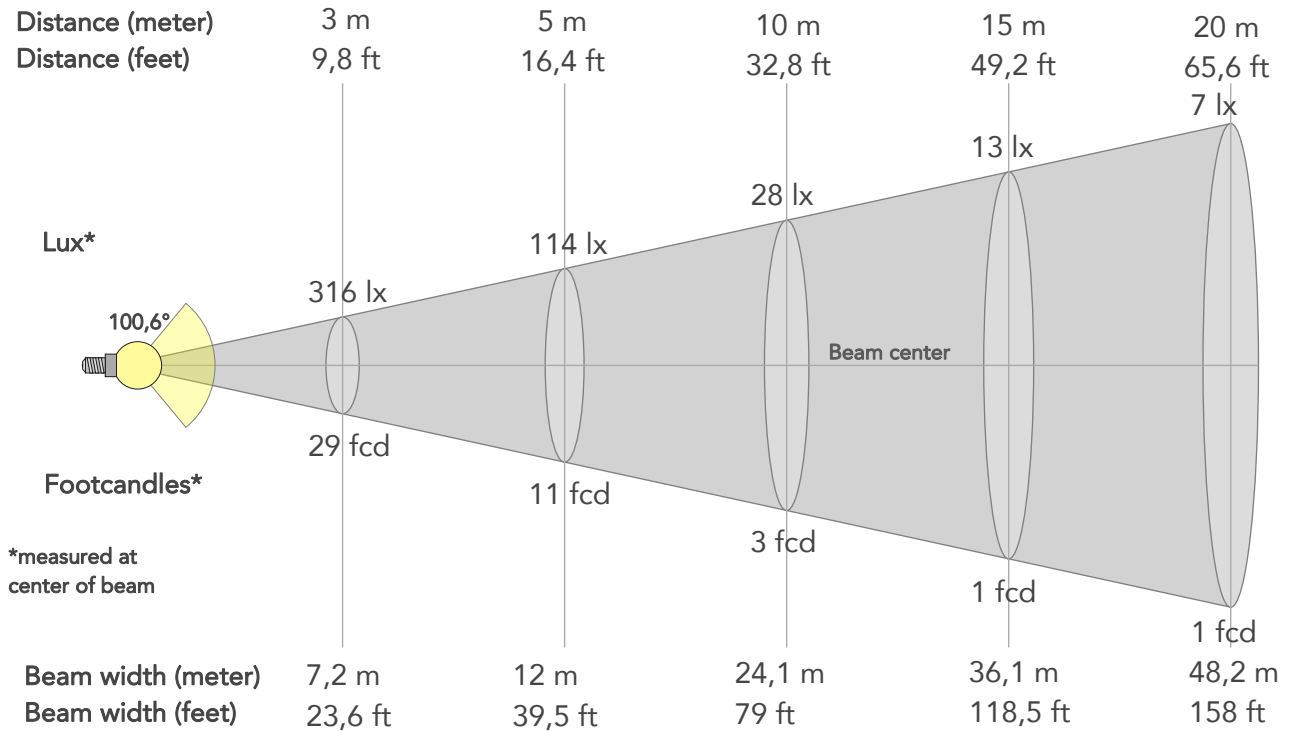


Color Evaluation Sample

BEAM DETAILS



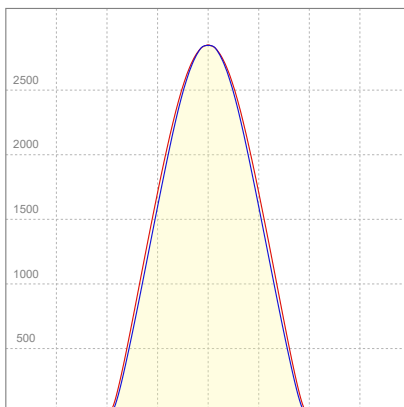
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
100,6°	153,5°	166,3°	82,4%	58,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2844lx	711lx	316lx	178lx	114lx	51lx	28lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	264fcd	66fcd	29fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,4m	4,8m	7,2m	9,6m	12m	18,1m	24,1m	36,1m	48,2m	60,2m	72,2m	96,3m	120,4m
Beam wid.	7,9ft	15,9ft	23,6ft	31,5ft	39,5ft	59,2ft	79ft	118,5ft	158ft	197,5ft	237ft	315,9ft	394,9ft

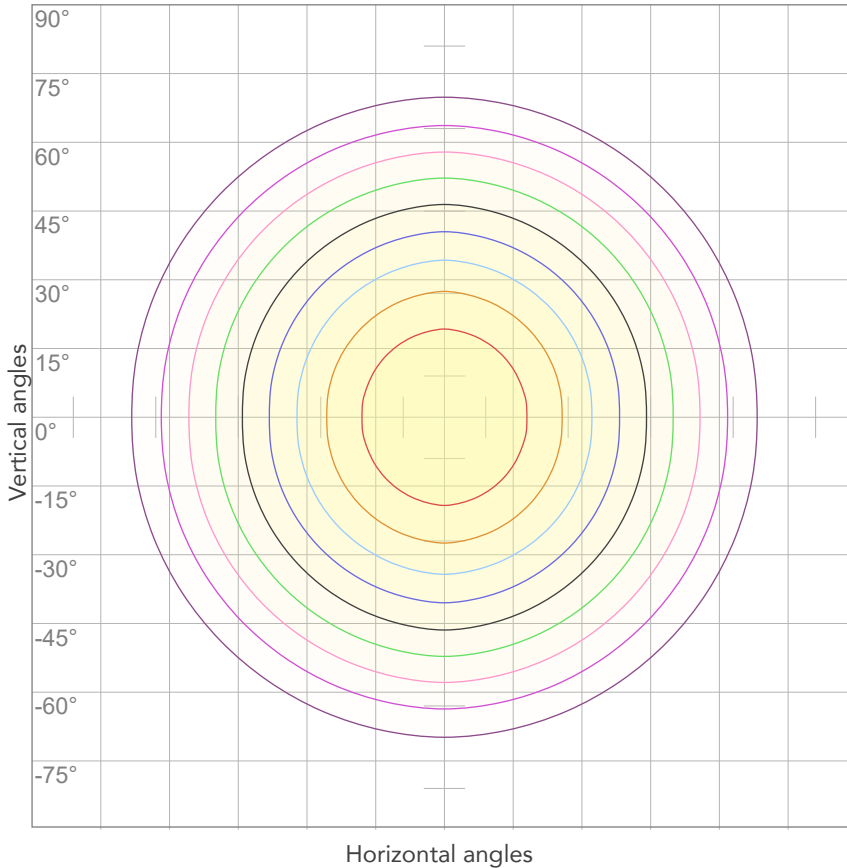
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,546A	114,3W	62lm/W

ISO CANDELA DIAGRAM



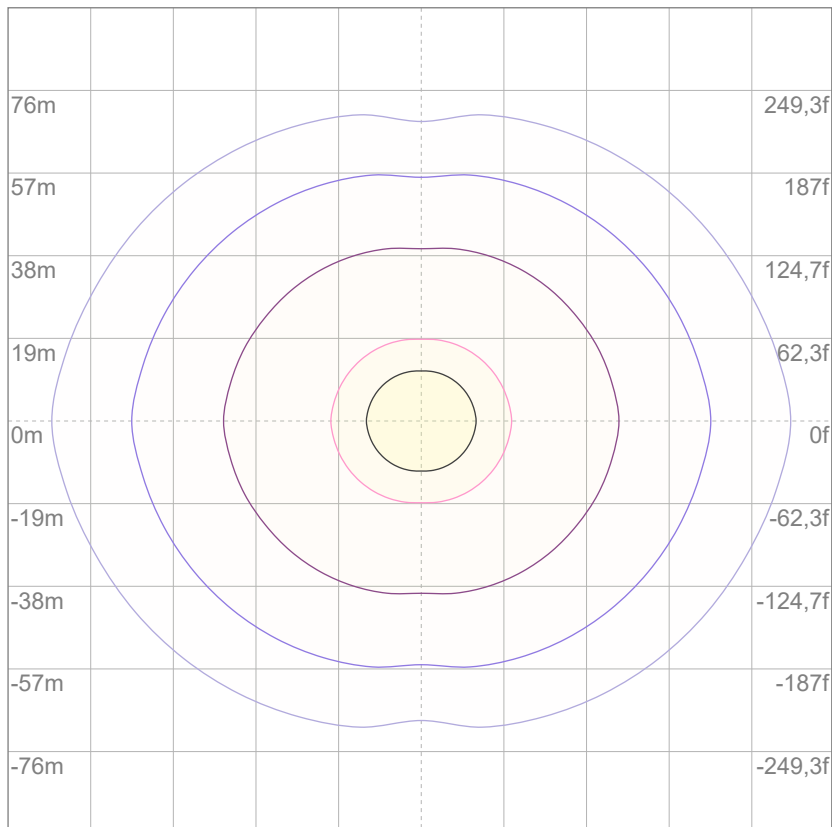
10%	284 cd
20%	569 cd
30%	853 cd
40%	1137 cd
50%	1422 cd
60%	1706 cd
70%	1990 cd
80%	2275 cd

Conditions:

Number of c-planes: 4

Candela at center: 2844 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,853 lx
5%	1,42 lx
10%	2,84 lx
30%	8,53 lx
50%	14,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 28,4 lx

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



Total lumen output:

7189 lm

Peak candela output:

2985 cd

Light quality:

CRI: 94,4

Color temperature:

6279 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

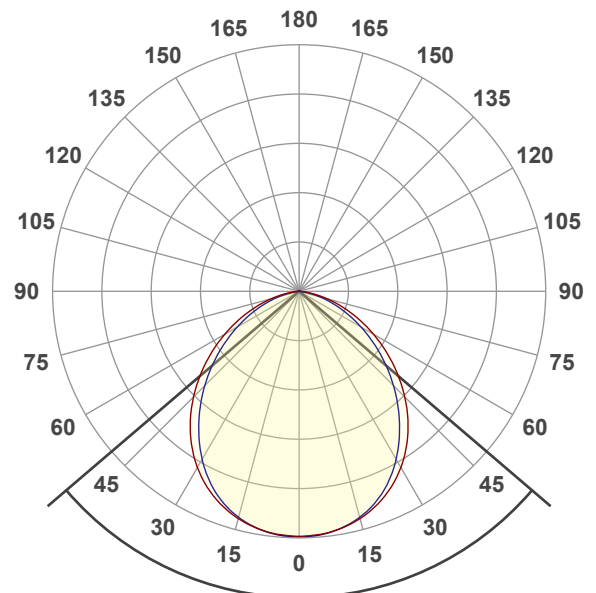
MEASURAMENT CONDITIONS:

Beam angle:
Filter LD

Target:
6000K HQ

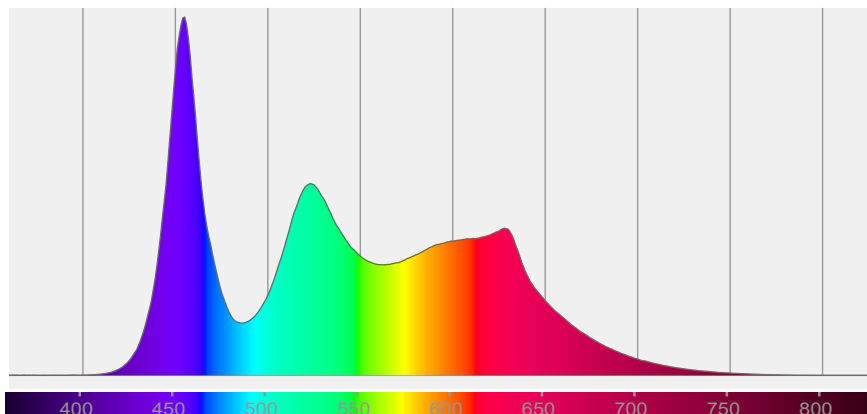
Operator:
Paolo Carvone

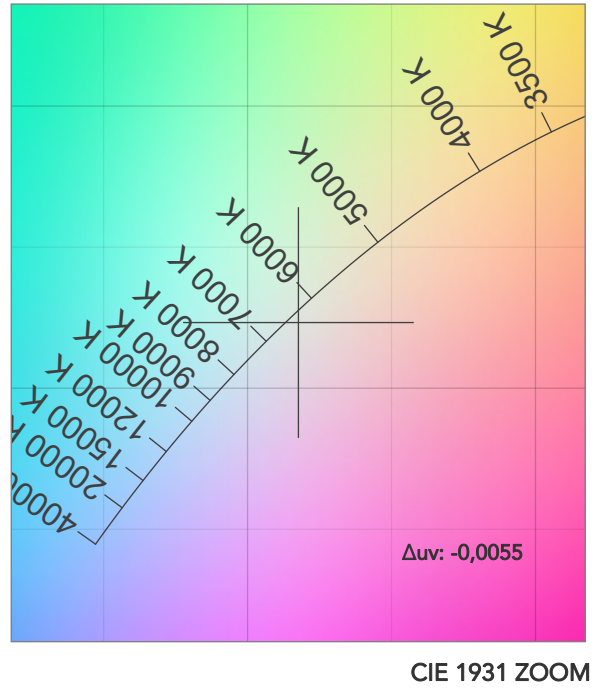
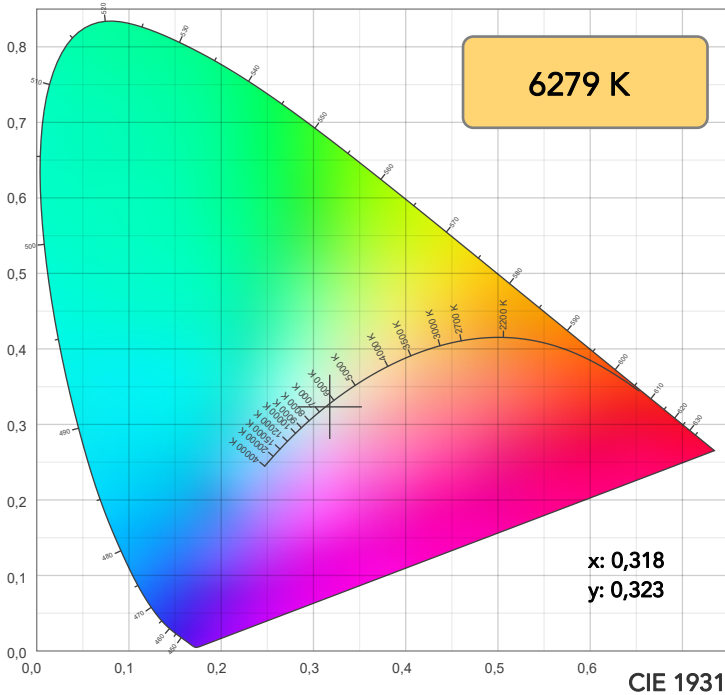
Date and time:
10/01/2022 14:24:16



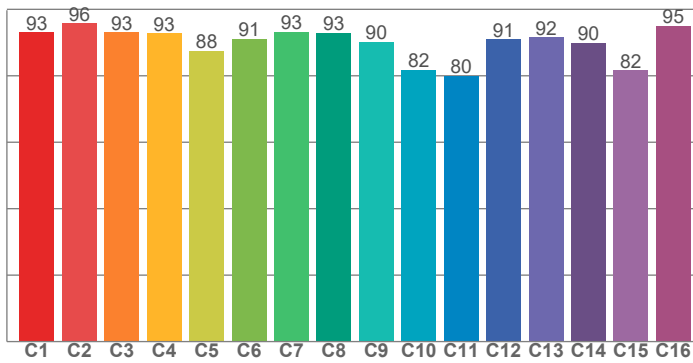
Beam angle 50%: 99°
Field angle 10%: 150,3°
Cut off angle 2.5%: 164,5°

Spectra

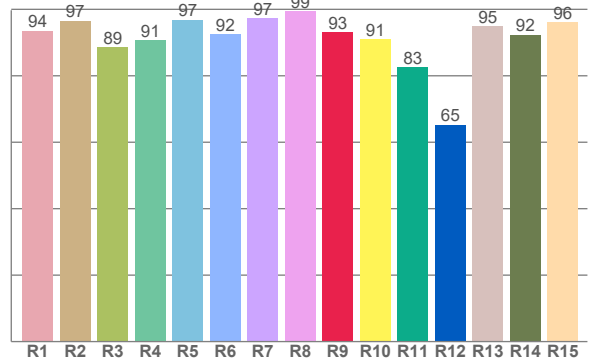




TM30: 89,8



CRI: 94,4 (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
93,6	96,6	88,6	90,6	96,8	92,5	97,2	99,4	93,0	91,0	82,6	65,3	95,0	92,4	96,1

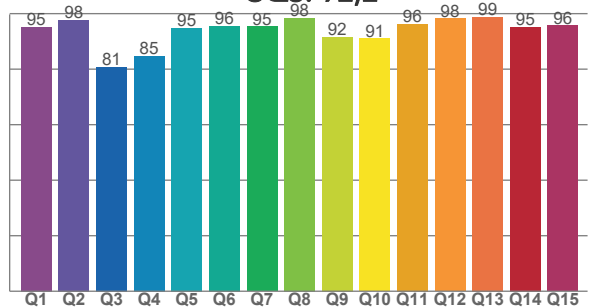
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,1	95,7	93,1	92,7	87,6	91,1	93,2	93,0	90,2	81,8	80,0	91,0	91,6	89,8	81,6	94,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,1	97,7	80,8	84,7	94,9	95,6	95,3	98,4	91,6	91,0	96,2	98,2	98,8	95,2	95,8

CQS: 92,2



COLOR PARAMETERS

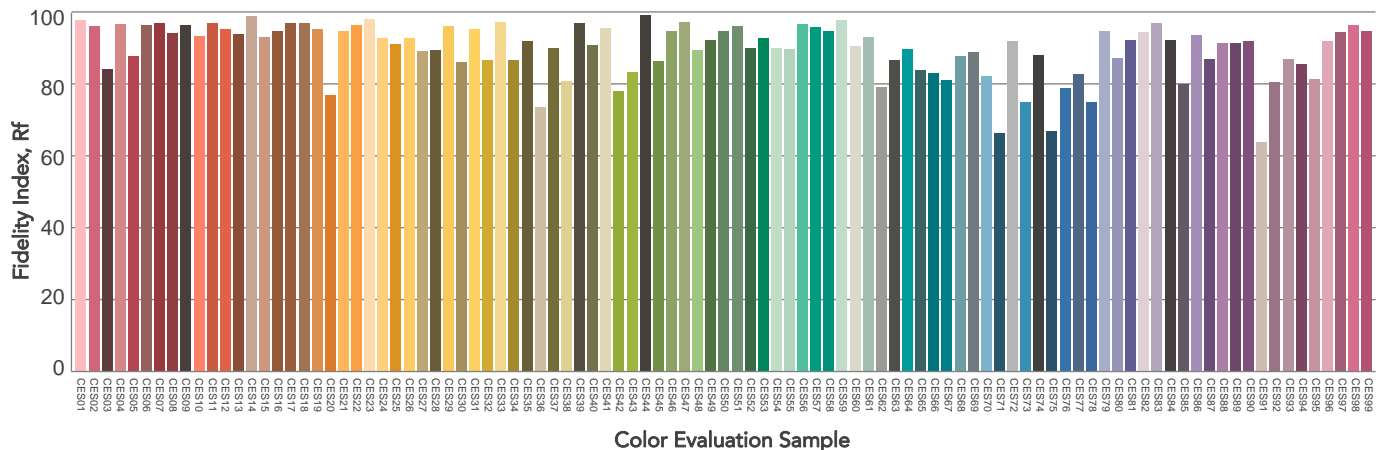
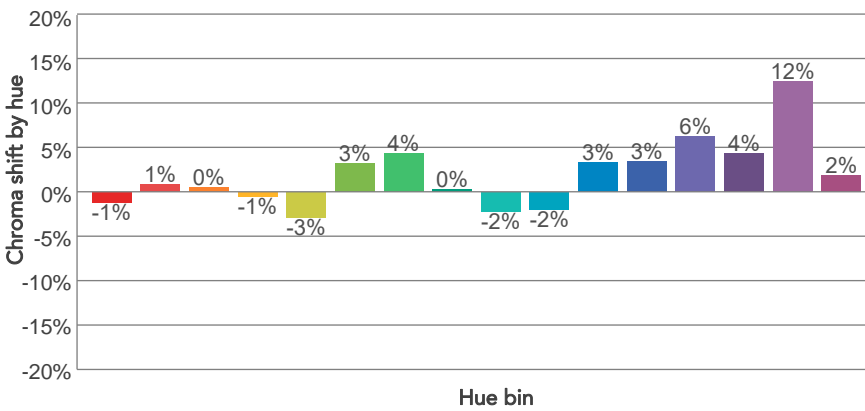
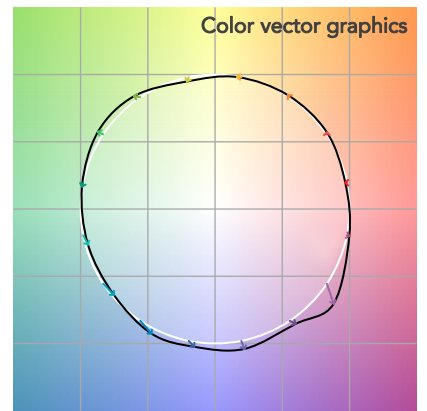
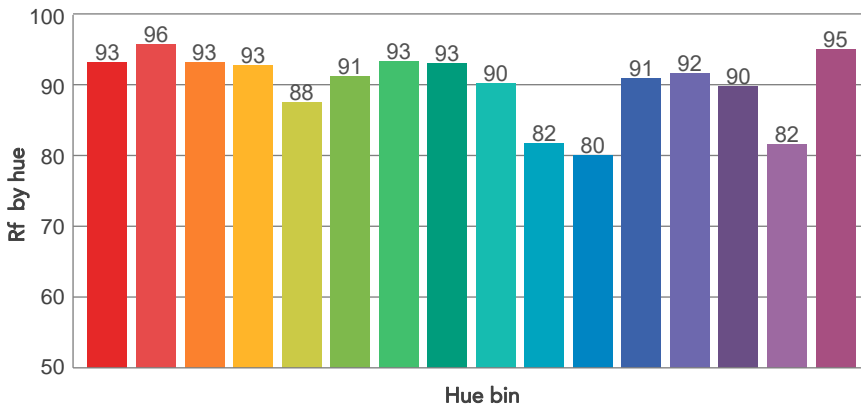
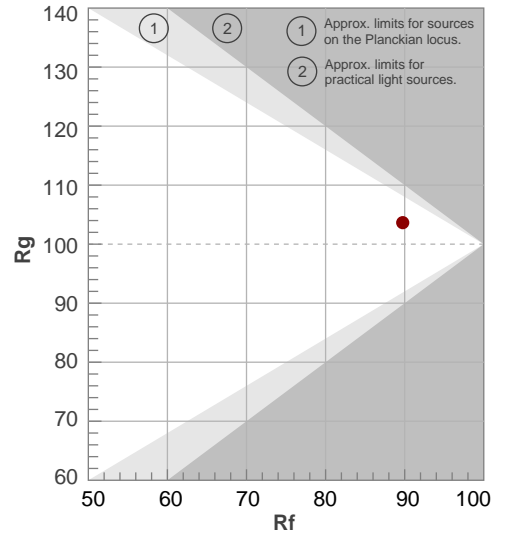
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6279 K	94,4	93,0	89,8	103,6	92,2	92	0,318	0,323	-0,0055

TM30 DETAILS

Rf 89,8
Fidelity index Rf

Rg 103,6
Gammut index

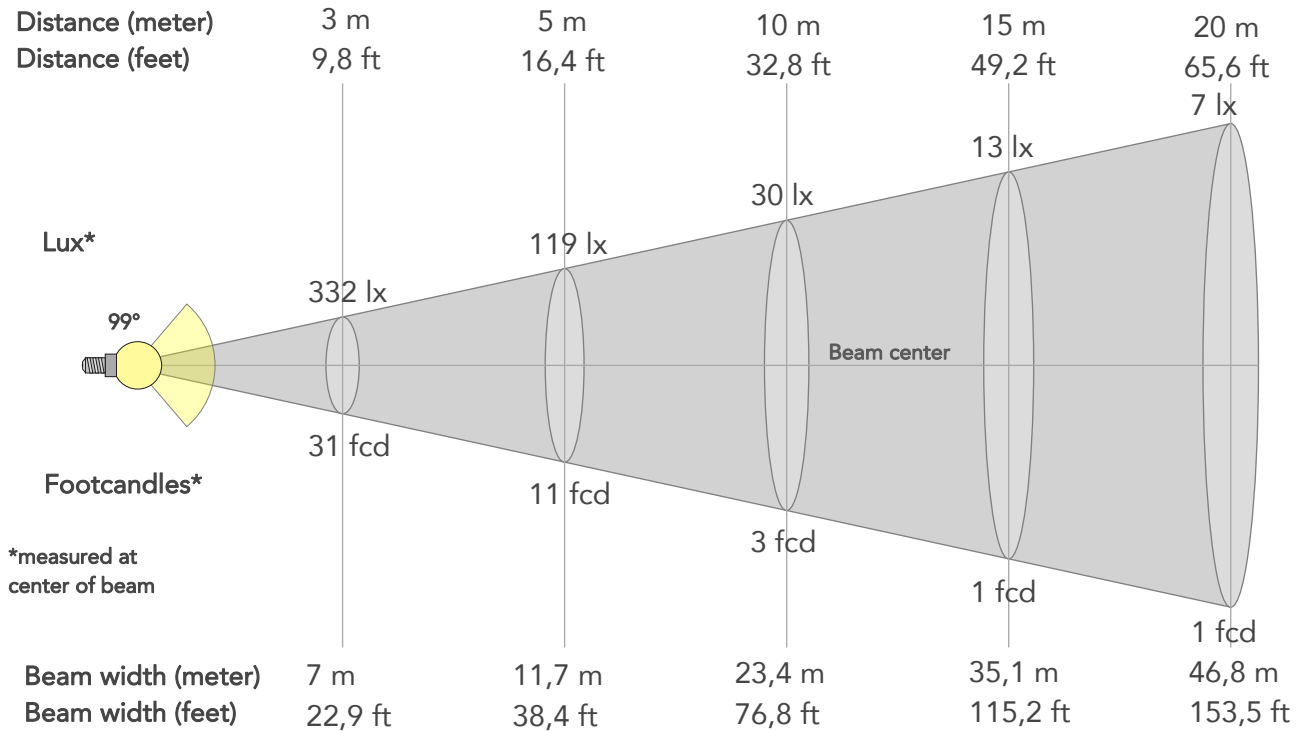
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-1%	0%
2	96	1%	1%
3	93	0%	2%
4	93	-1%	3%
5	88	-3%	2%
6	91	3%	4%
7	93	4%	1%
8	93	0%	3%
9	90	-2%	7%
10	82	-2%	11%
11	80	3%	12%
12	91	3%	5%
13	92	6%	1%
14	90	4%	2%
15	82	12%	-9%
16	95	2%	0%



BEAM DETAILS



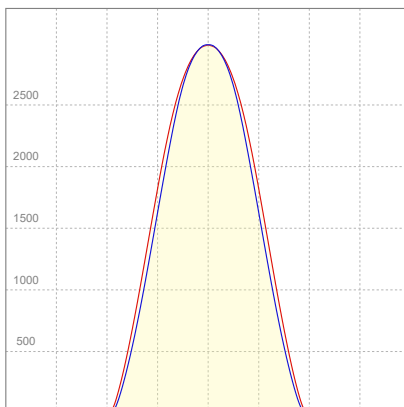
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
99°	150,3°	164,5°	84,4%	60,5%



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	2984lx	746lx	332lx	186lx	119lx	53lx	30lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	277fcd	69fcd	31fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	2,3m	4,7m	7m	9,4m	11,7m	17,6m	23,4m	35,1m	46,8m	58,5m	70,2m	93,6m	117m
Beam wid.	7,7ft	15,4ft	22,9ft	30,7ft	38,4ft	57,6ft	76,8ft	115,2ft	153,5ft	191,9ft	230,3ft	307,1ft	383,9ft

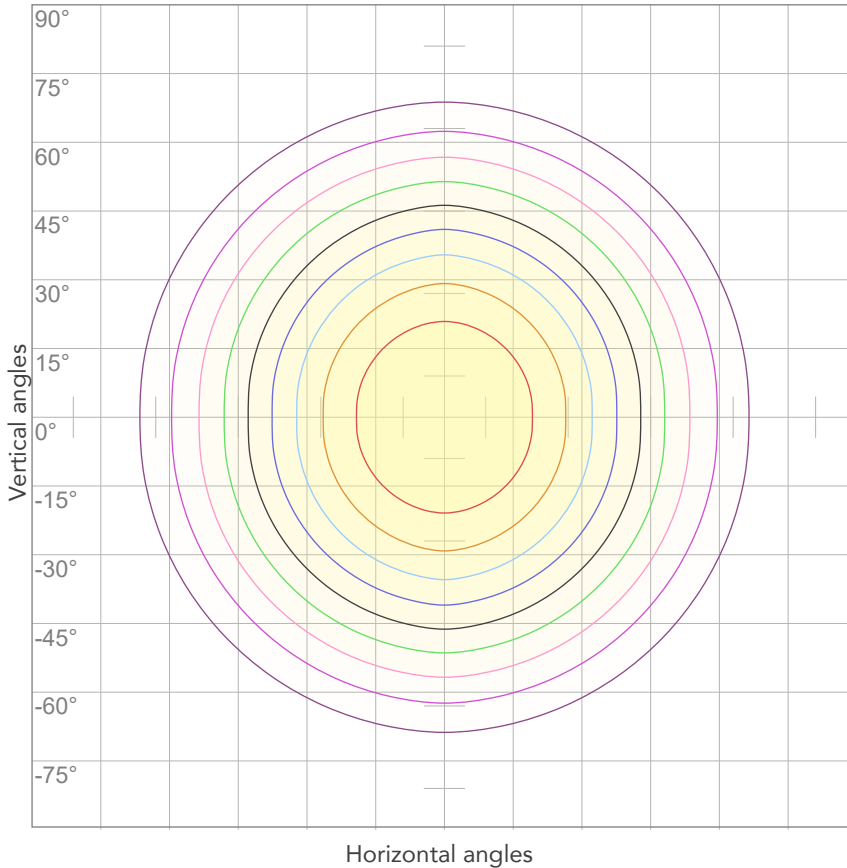
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,543A	113,5W	63lm/W

ISO CANDELA DIAGRAM



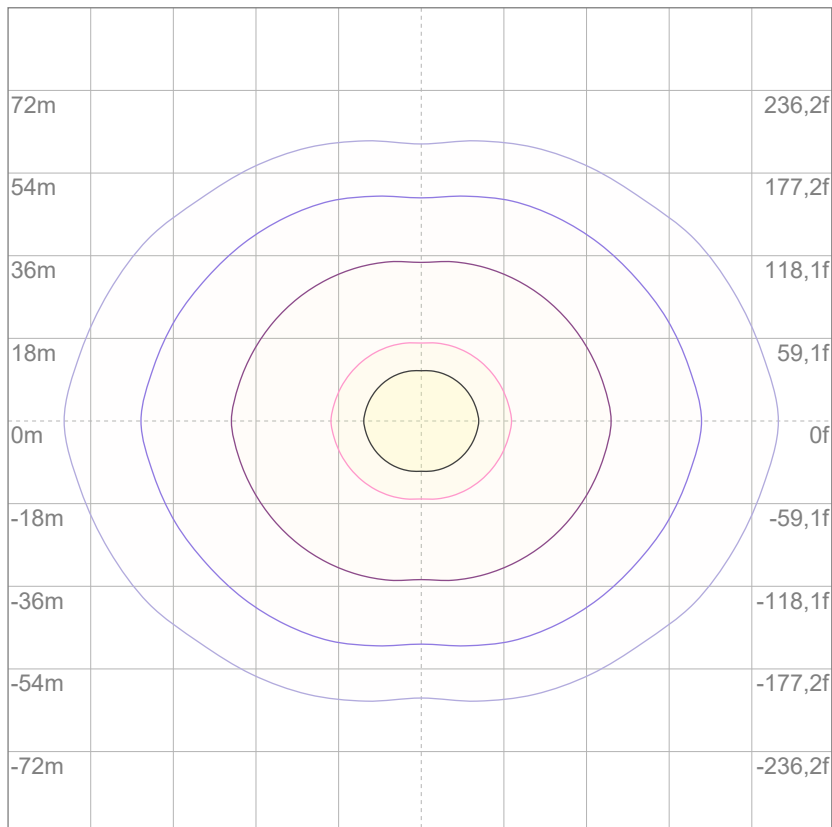
10%	298 cd
20%	597 cd
30%	895 cd
40%	1193 cd
50%	1492 cd
60%	1790 cd
70%	2089 cd
80%	2387 cd

Conditions:

Number of c-planes: 4

Candela at center: 2984 cd

ISO LUX DIAGRAM



3%	0,895 lx
5%	1,49 lx
10%	2,98 lx
30%	8,95 lx
50%	14,9 lx

Conditions:

Number of c-planes: 4

Lux at center: 29,8 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:

6183 lm

Peak candela output:

4000 cd

Light quality:

CRI: 94,5

Color temperature:

6210 K

PRODUCT NAME:
ECLPANELTWCMINI2X1

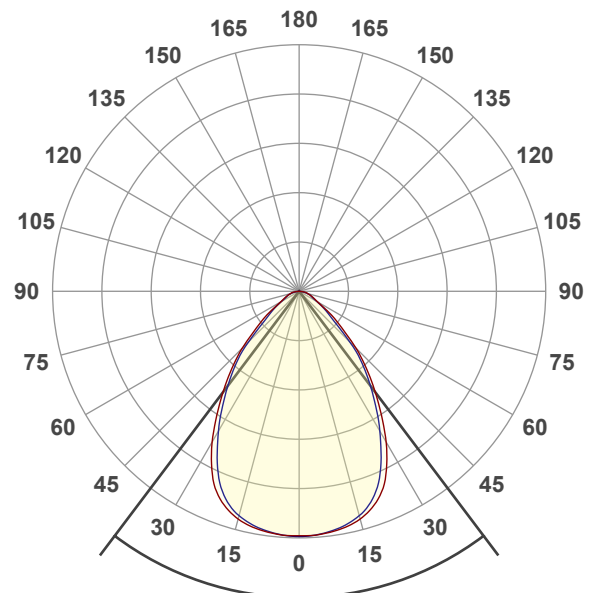
MEASURAMENT CONDITIONS:

Beam angle:
Filter INT

Target:
6000K HQ

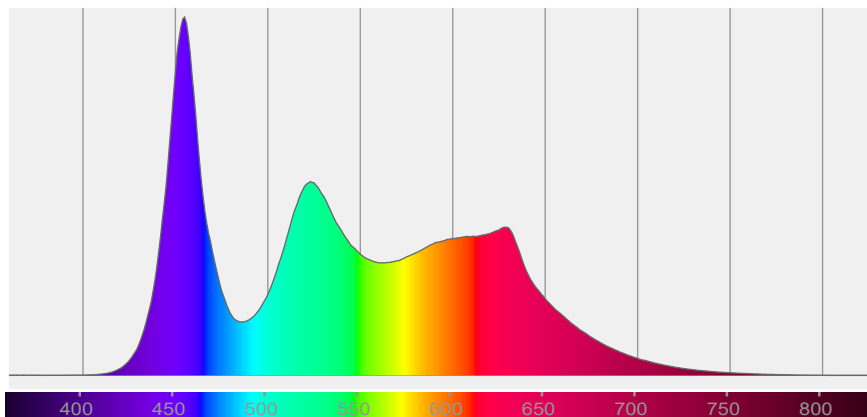
Operator:
Paolo Carvone

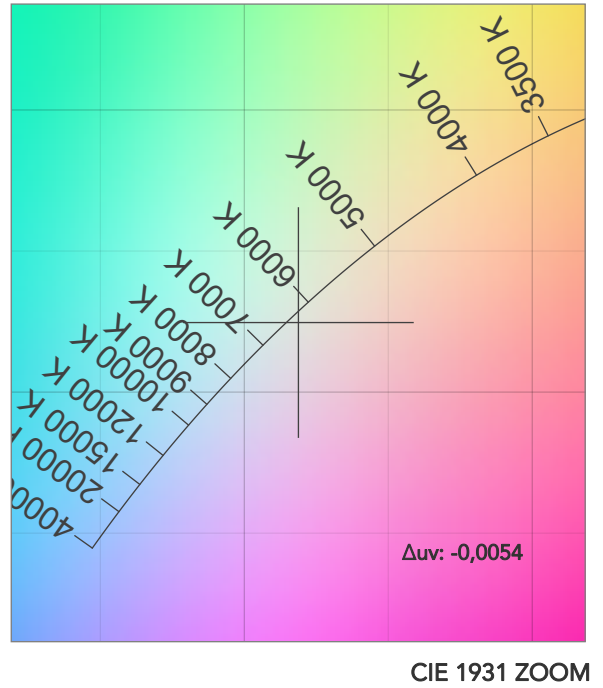
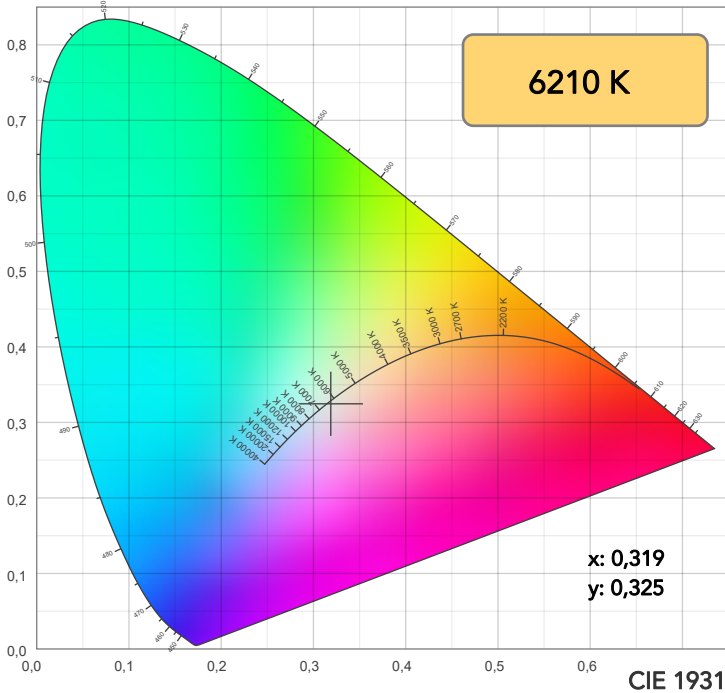
Date and time:
10/01/2022 14:56:52



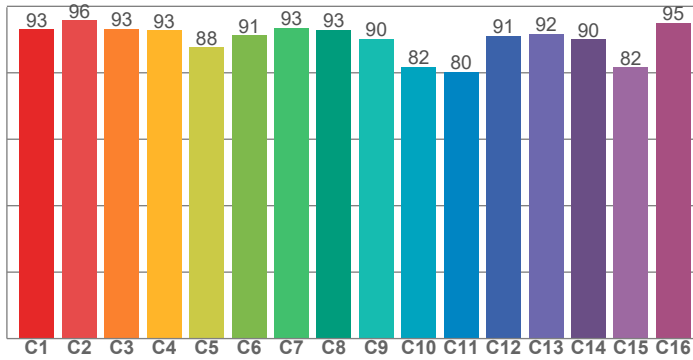
Beam angle 50%: 74,1°
Field angle 10%: 116,5°
Cut off angle 2.5%: 158,3°

Spectra

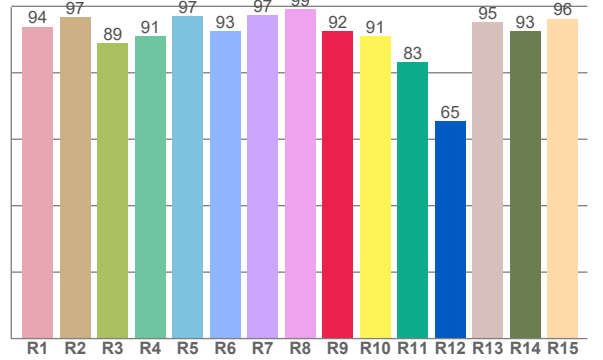




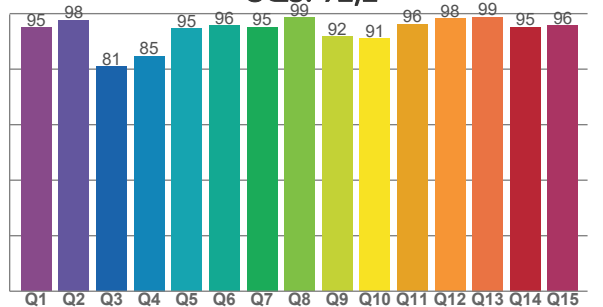
TM30: 89,8



CRI: 94,5 (R1-R8)



CQS: 92,2



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
93,8	96,7	88,8	91,0	96,9	92,6	97,4	99,1	92,4	91,0	83,1	65,4	95,2	92,5	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
93,1	95,8	93,1	92,8	87,6	91,3	93,5	93,0	90,2	81,8	80,2	91,1	91,7	90,1	81,7	95,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,9	97,8	81,0	84,7	94,7	95,8	95,3	98,5	91,7	91,1	96,2	98,2	98,8	95,1	95,6

COLOR PARAMETERS

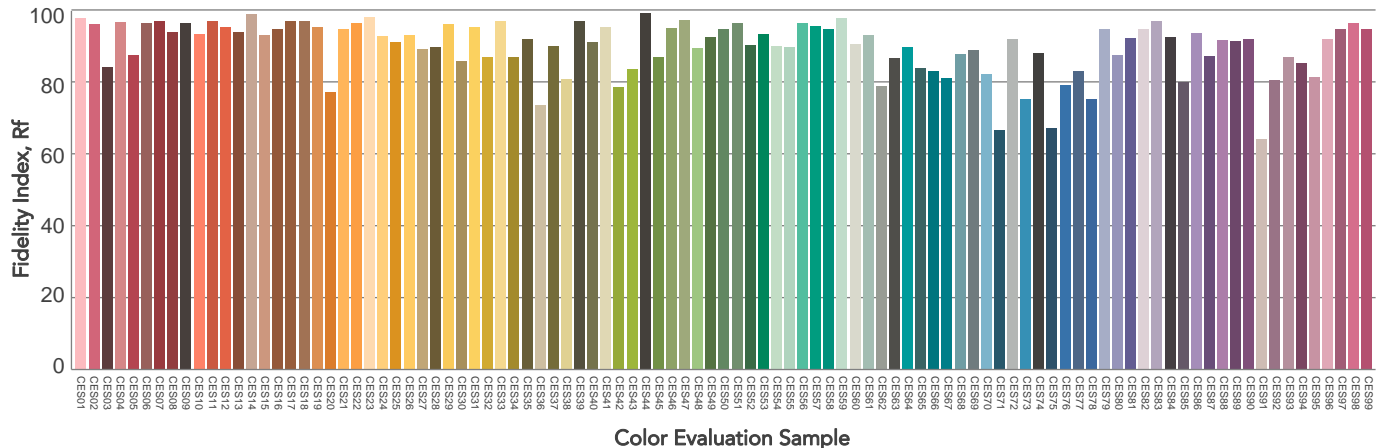
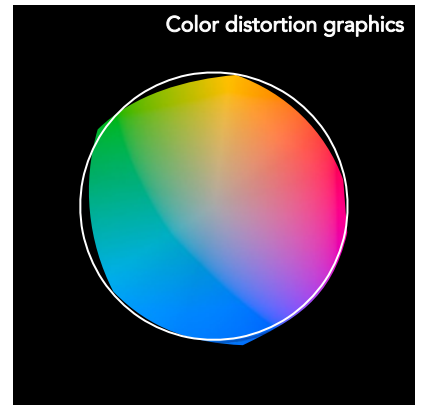
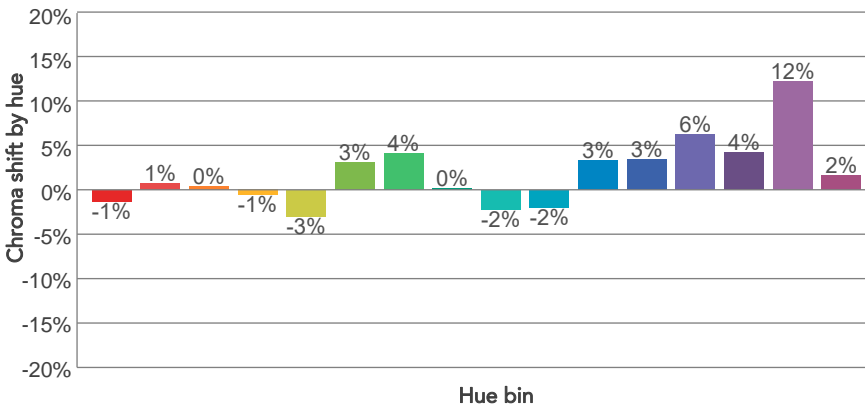
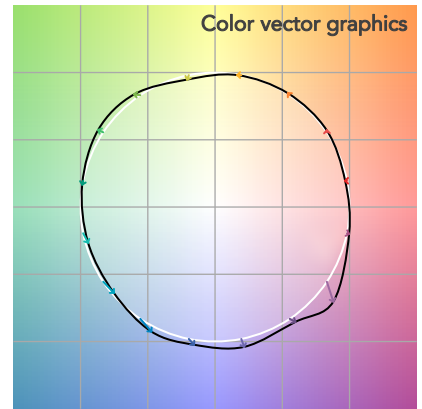
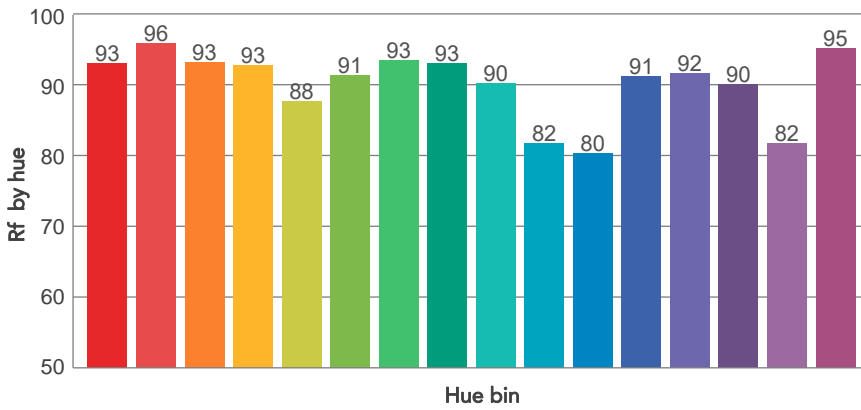
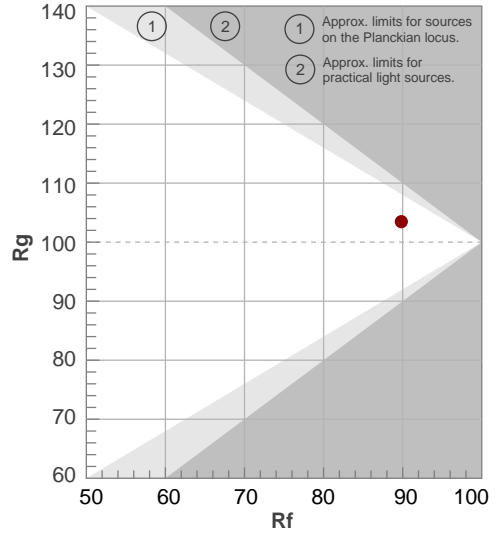
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6210 K	94,5	92,4	89,8	103,5	92,2	92	0,319	0,325	-0,0054

TM30 DETAILS

Rf 89,8
Fidelity index Rf

Rg 103,5
Gammut index

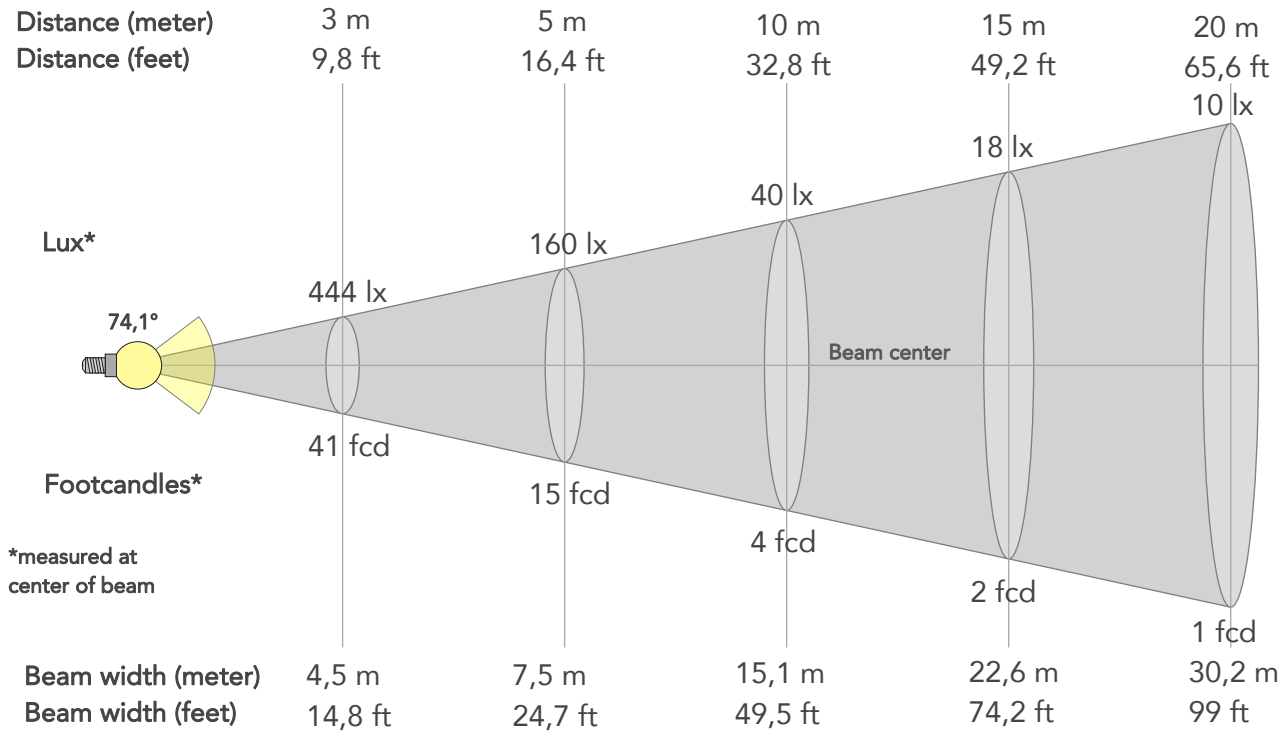
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-1%	0%
2	96	1%	1%
3	93	0%	2%
4	93	-1%	3%
5	88	-3%	2%
6	91	3%	3%
7	93	4%	1%
8	93	0%	3%
9	90	-2%	8%
10	82	-2%	11%
11	80	3%	12%
12	91	3%	5%
13	92	6%	1%
14	90	4%	2%
15	82	12%	-10%
16	95	2%	0%



BEAM DETAILS



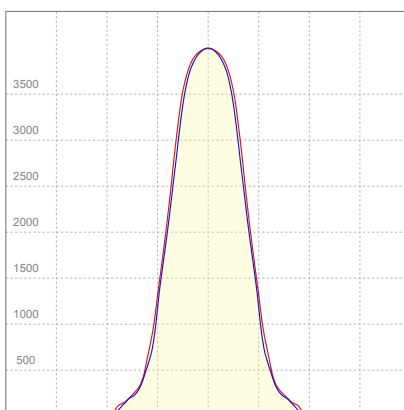
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,1°	116,5°	158,3°	92,9%	78,5%



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	3995lx	999lx	444lx	250lx	160lx	71lx	40lx	18lx	10lx	6lx	4lx	2lx	2lx
Footcand.	371fcd	93fcd	41fcd	23fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,5m	6m	7,5m	11,3m	15,1m	22,6m	30,2m	37,7m	45,3m	60,3m	75,4m
Beam wid.	5ft	10ft	14,8ft	19,8ft	24,7ft	37,1ft	49,5ft	74,2ft	99ft	123,7ft	148,4ft	197,9ft	247,4ft

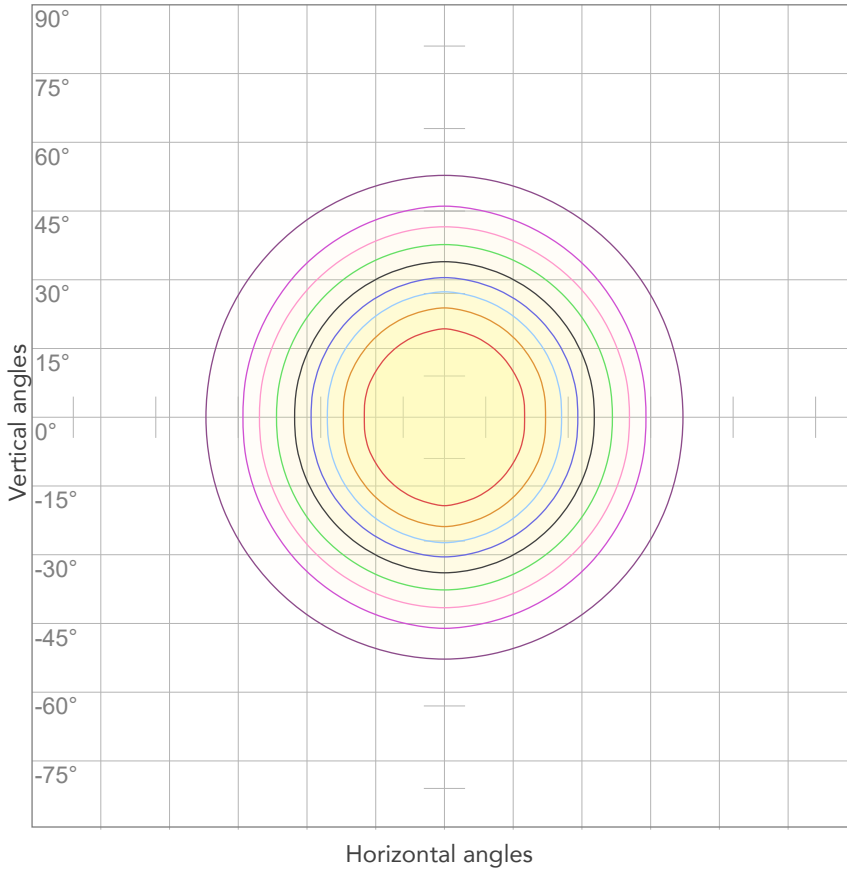
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,541A	113,2W	55lm/W

ISO CANDELA DIAGRAM



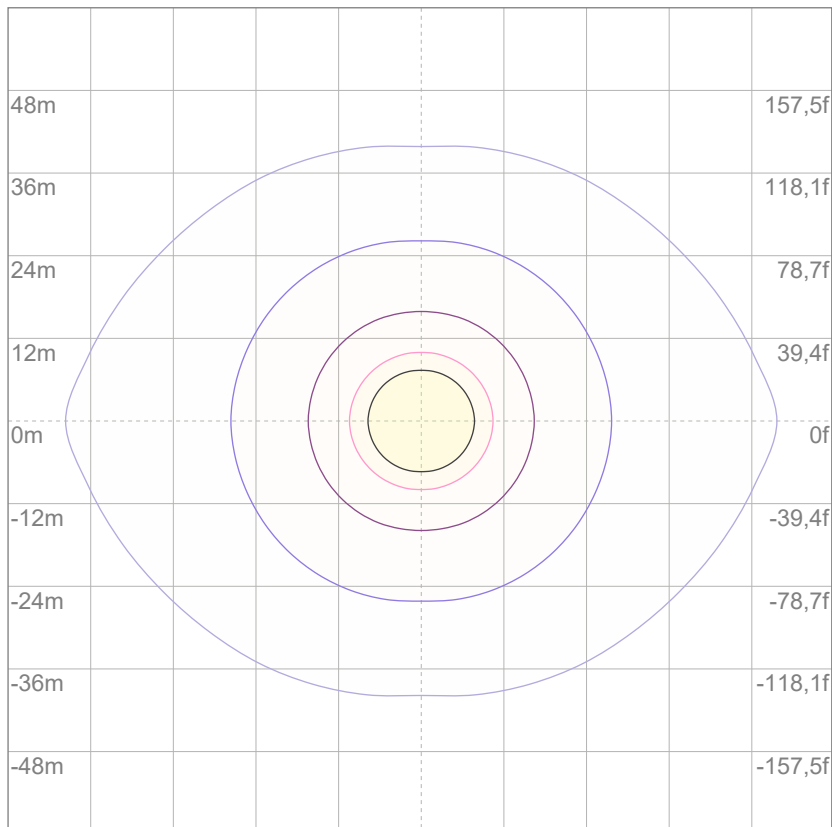
10%	400 cd
20%	799 cd
30%	1199 cd
40%	1598 cd
50%	1998 cd
60%	2397 cd
70%	2797 cd
80%	3196 cd

Conditions:

Number of c-planes: 4

Candela at center: 3995 cd

ISO LUX DIAGRAM



3%	1,20 lx
5%	2,00 lx
10%	4,00 lx
30%	12,0 lx
50%	20,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 40,0 lx

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

Mounting height: 10 meters (33 feet)