



Photometric Test Report



STUDIOCOBPLUSFC

150W rated full colour COB LED Par

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Color preset 6000K

Narrow Optic	95
Medium Optic	100
Wide Optic	105

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:

3530 lm

Peak candela output:

23048 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow

Target:

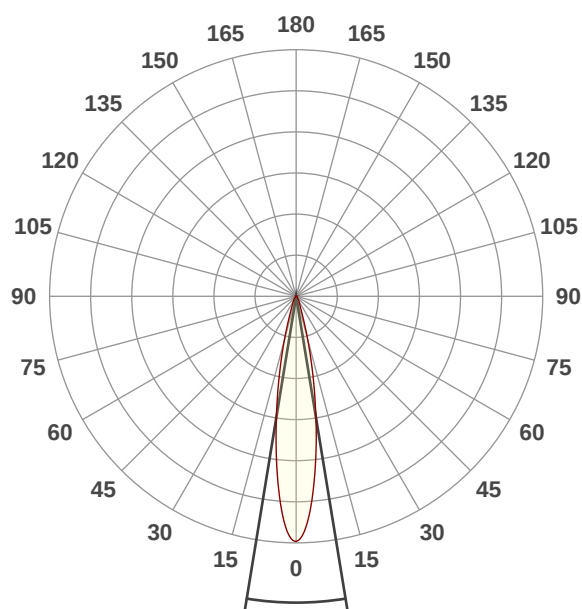
Full On

Operator:

Paolo Carvone

Date and time:

05/02/2021 09:58:40

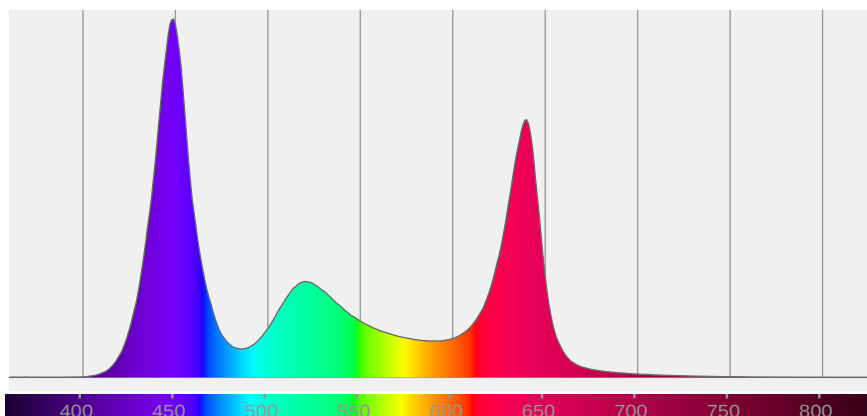


Beam angle 50%: 18,6°

Field angle 10%: 35,3°

Cut off angle 2.5%: 56,7°

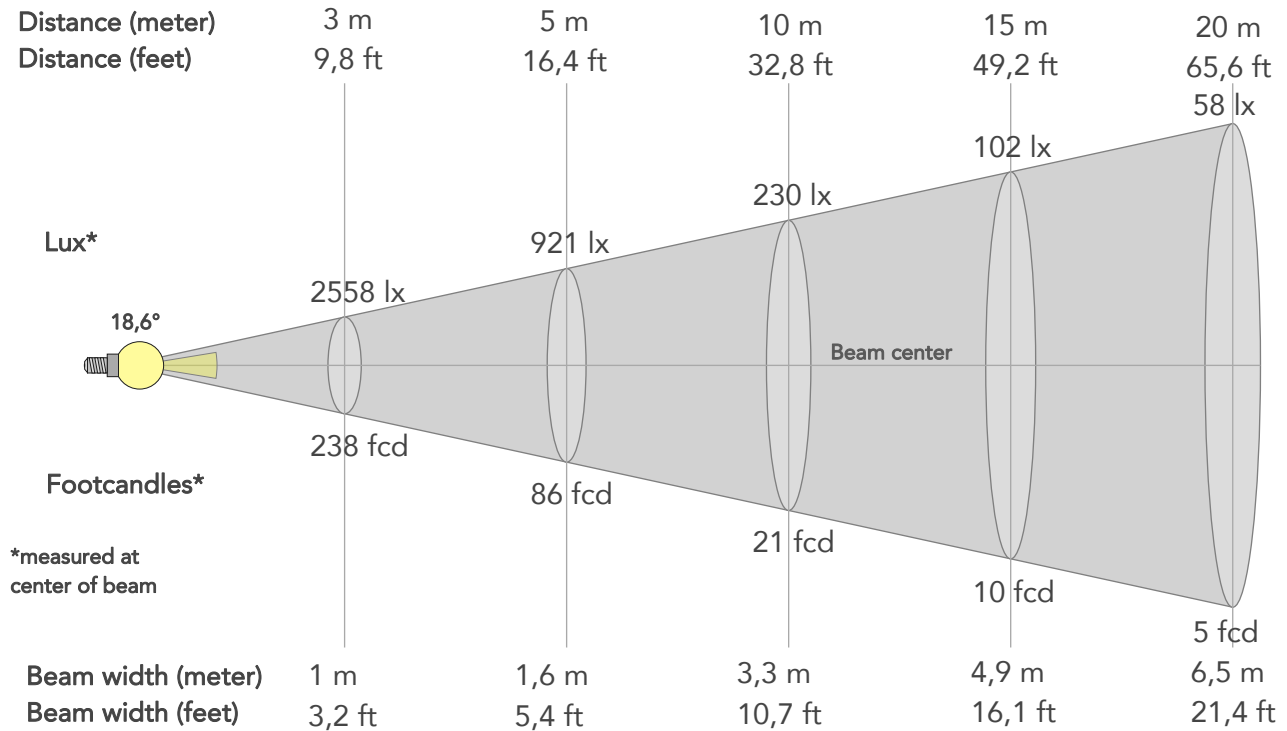
Spectra



BEAM DETAILS



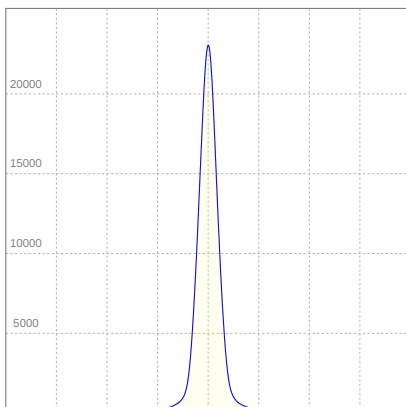
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,6°	35,3°	56,7°	99,4%	95,9%



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	23024lx	5756lx	2558lx	1439lx	921lx	409lx	230lx	102lx	58lx	37lx	26lx	14lx	9lx
Footcand.	2139fcd	535fcd	238fcd	134fcd	86fcd	38fcd	21fcd	10fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,6m	2,5m	3,3m	4,9m	6,5m	8,2m	9,8m	13,1m	16,3m
Beam wid.	1,1ft	2,2ft	3,2ft	4,3ft	5,4ft	8ft	10,7ft	16,1ft	21,4ft	26,8ft	32,2ft	42,9ft	53,6ft

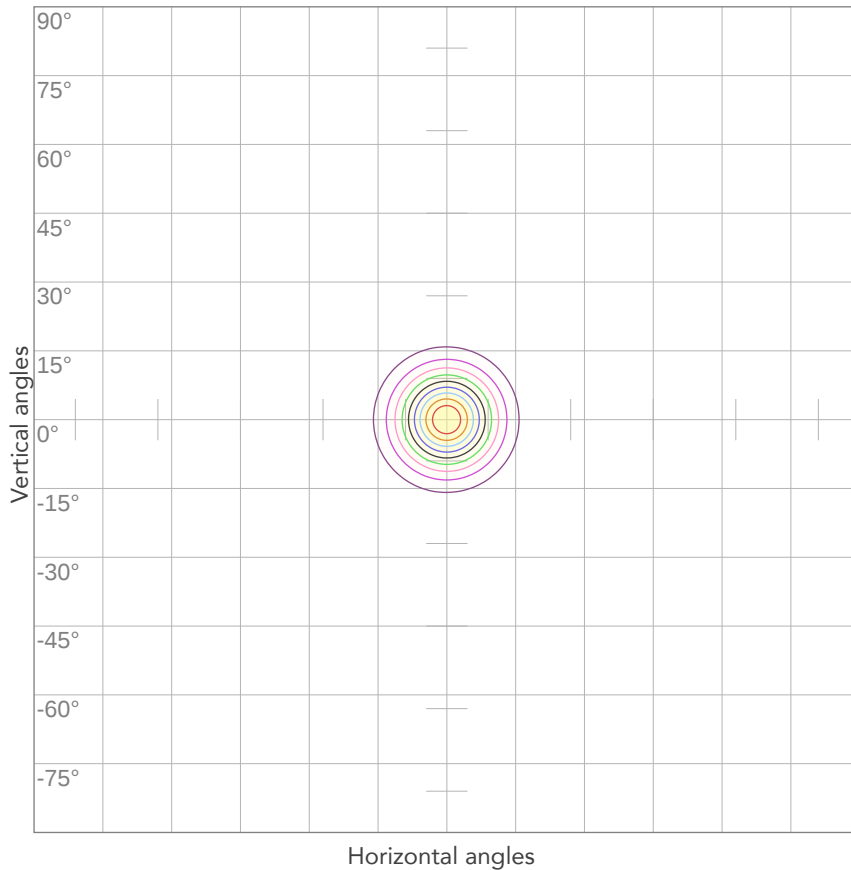
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,649A	140W	25lm/W
Power FC			
0,96			

ISO CANDELA DIAGRAM



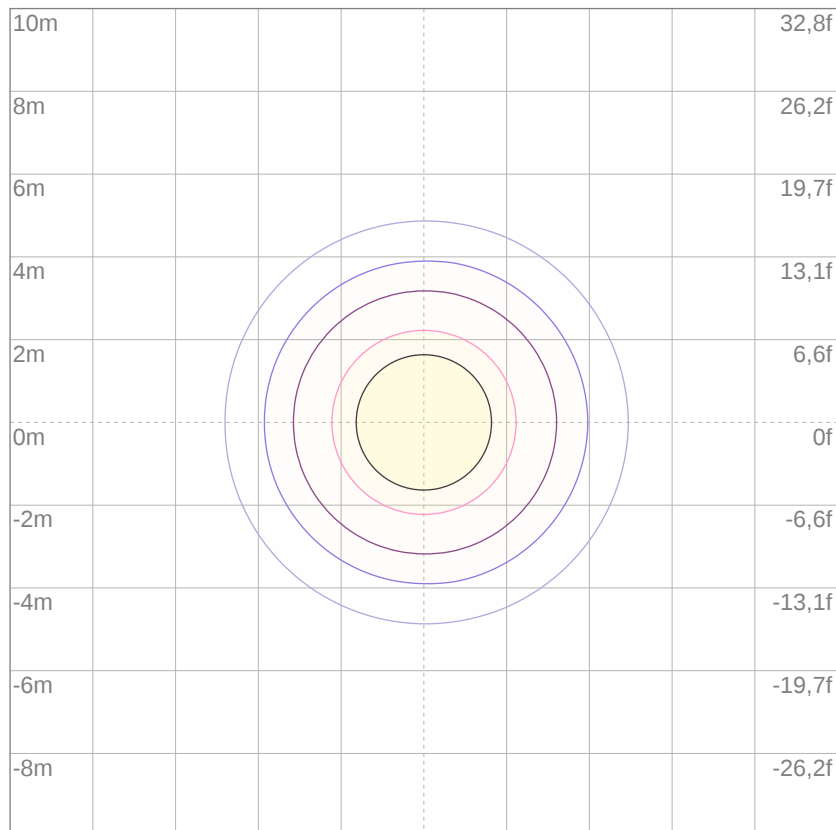
10%	2302 cd
20%	4605 cd
30%	6907 cd
40%	9210 cd
50%	11512 cd
60%	13814 cd
70%	16117 cd
80%	18419 cd

Conditions:

Number of c-planes: 2

Candela at center: 23024 cd

ISO LUX DIAGRAM



3%	6,91 lx
5%	11,5 lx
10%	23,0 lx
30%	69,1 lx
50%	115 lx

Conditions:

Number of c-planes: 2

Lux at center: 230 lx

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



Total lumen output:

3172 lm

Peak candela output:

5807 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Medium

Target:

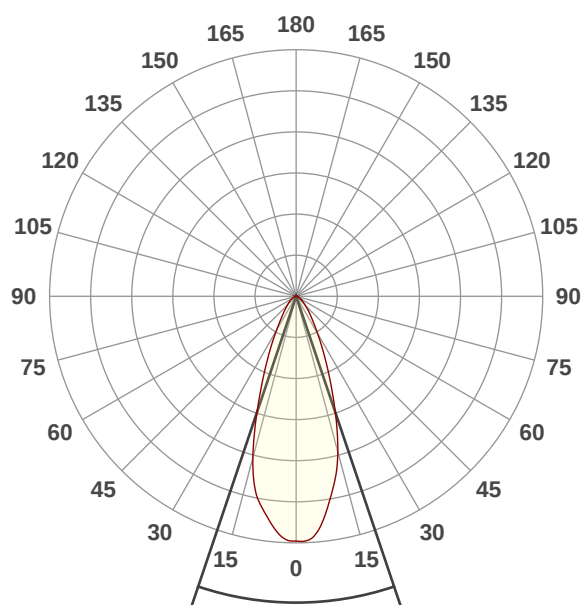
Full On

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:53:19

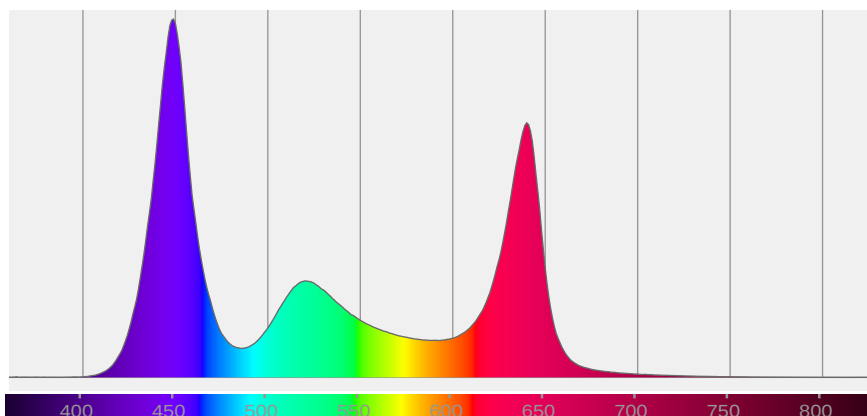


Beam angle 50%: 37,3°

Field angle 10%: 71,9°

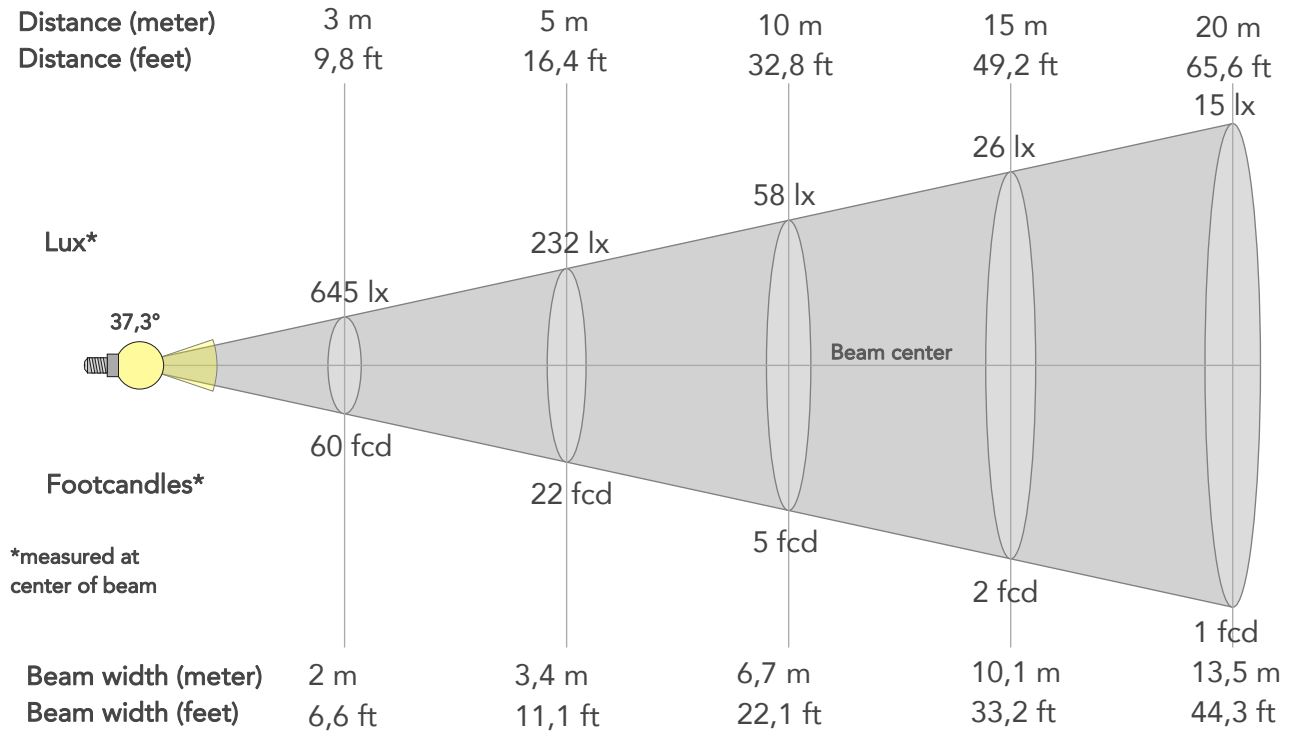
Cut off angle 2.5%: 113,7°

Spectra



BEAM DETAILS

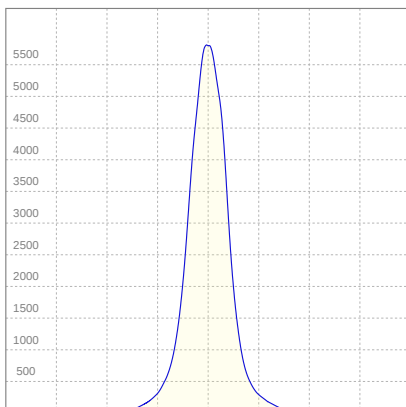
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,3°	71,9°	113,7°	97,3%	89,3%



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	5801lx	1450lx	645lx	363lx	232lx	103lx	58lx	26lx	15lx	9lx	6lx	4lx	2lx
Footcand.	539fcd	135fcd	60fcd	34fcd	22fcd	10fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,7m	3,4m	5,1m	6,7m	10,1m	13,5m	16,9m	20,2m	27m	33,7m
Beam wid.	2,2ft	4,5ft	6,6ft	8,8ft	11,1ft	16,6ft	22,1ft	33,2ft	44,3ft	55,3ft	66,4ft	88,6ft	110,7ft

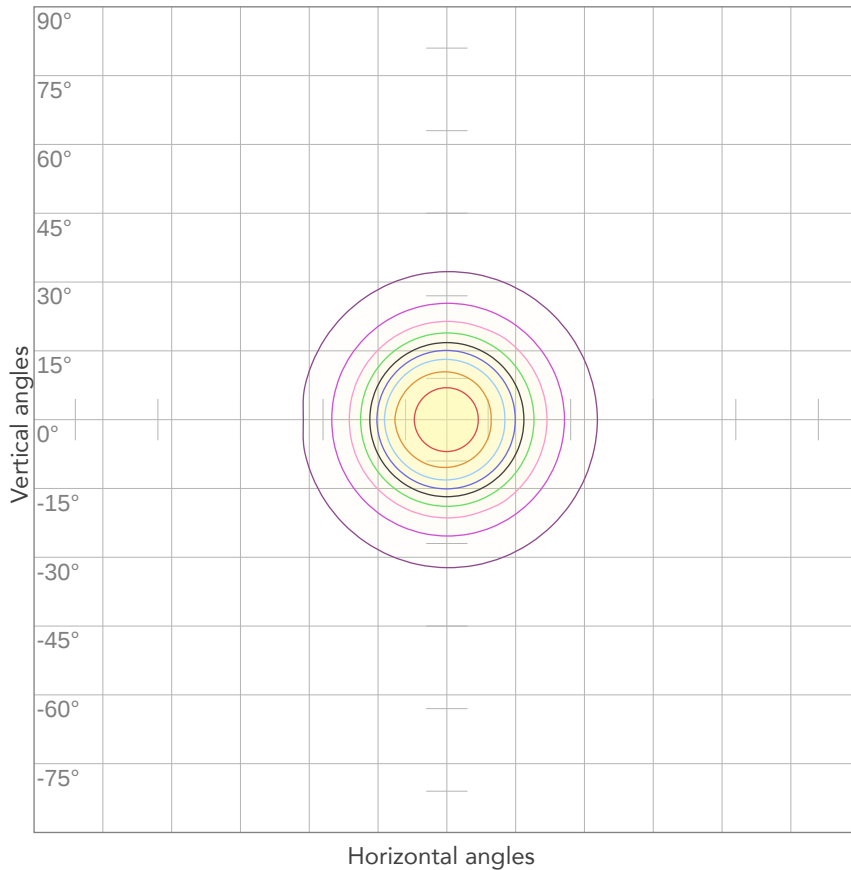
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,641A	139W	23lm/W
Power FC			
0,96			

ISO CANDELA DIAGRAM



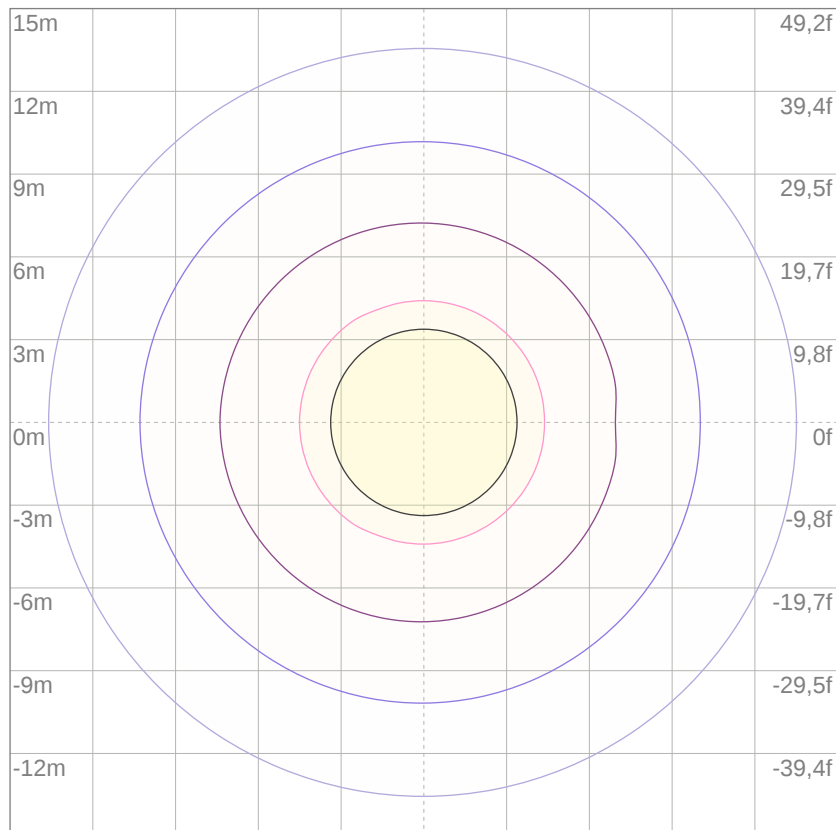
10%	580 cd
20%	1160 cd
30%	1740 cd
40%	2320 cd
50%	2900 cd
60%	3481 cd
70%	4061 cd
80%	4641 cd

Conditions:

Number of c-planes: 2

Candela at center: 5801 cd

ISO LUX DIAGRAM



3%	1,74 lx
5%	2,90 lx
10%	5,80 lx
30%	17,4 lx
50%	29,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 58,0 lx

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



Total lumen output:

3310 lm

Peak candela output:

4663 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide

Target:

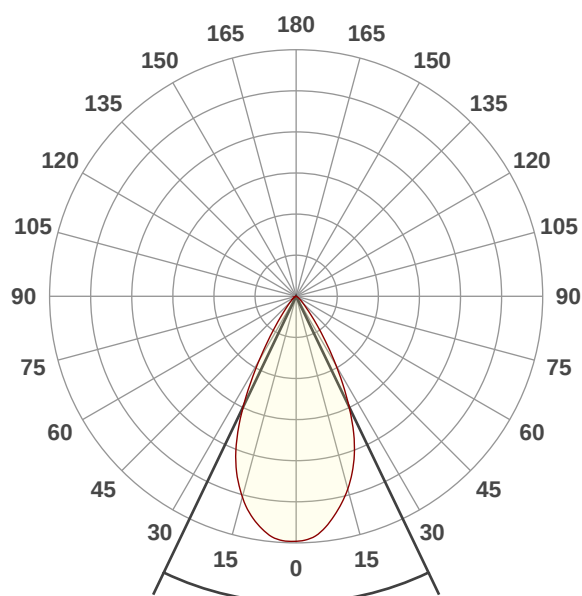
Full On

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:32:55

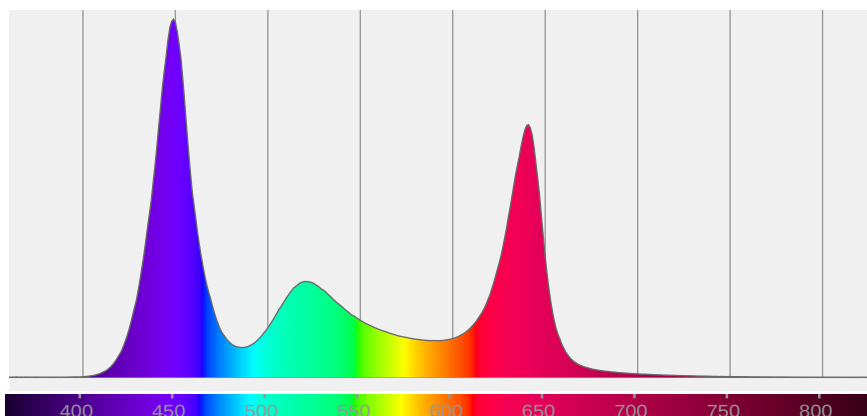


Beam angle 50%: 51,2°

Field angle 10%: 75,5°

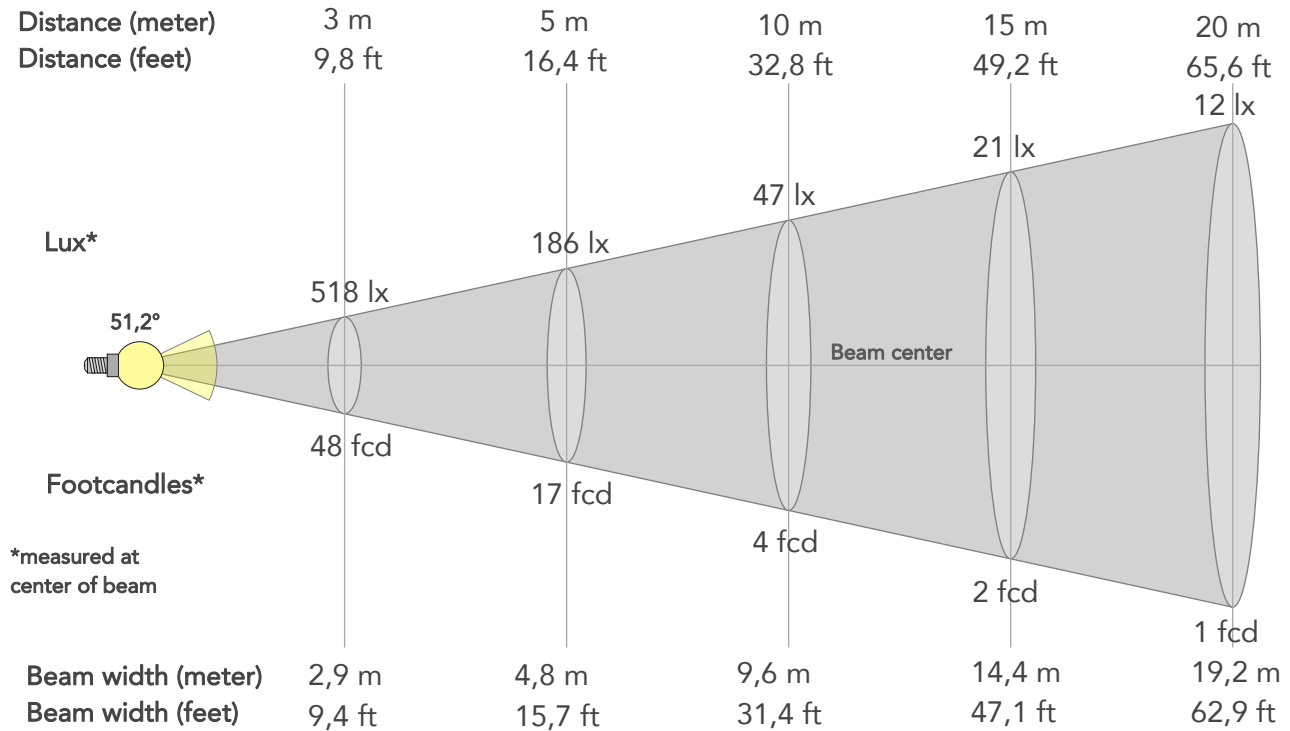
Cut off angle 2.5%: 98,2°

Spectra



BEAM DETAILS

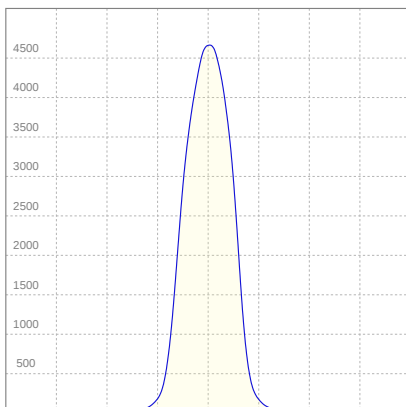
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,2°	75,5°	98,2°	99,2%	95,6%



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	4659lx	1165lx	518lx	291lx	186lx	83lx	47lx	21lx	12lx	7lx	5lx	3lx	2lx
Footcand.	433fcd	108fcd	48fcd	27fcd	17fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1m	1,9m	2,9m	3,8m	4,8m	7,2m	9,6m	14,4m	19,2m	24m	28,7m	38,3m	47,9m
Beam wid.	3,2ft	6,3ft	9,4ft	12,6ft	15,7ft	23,6ft	31,4ft	47,1ft	62,9ft	78,6ft	94,3ft	125,7ft	157,2ft

LINEAR DISTRIBUTION DIAGRAM

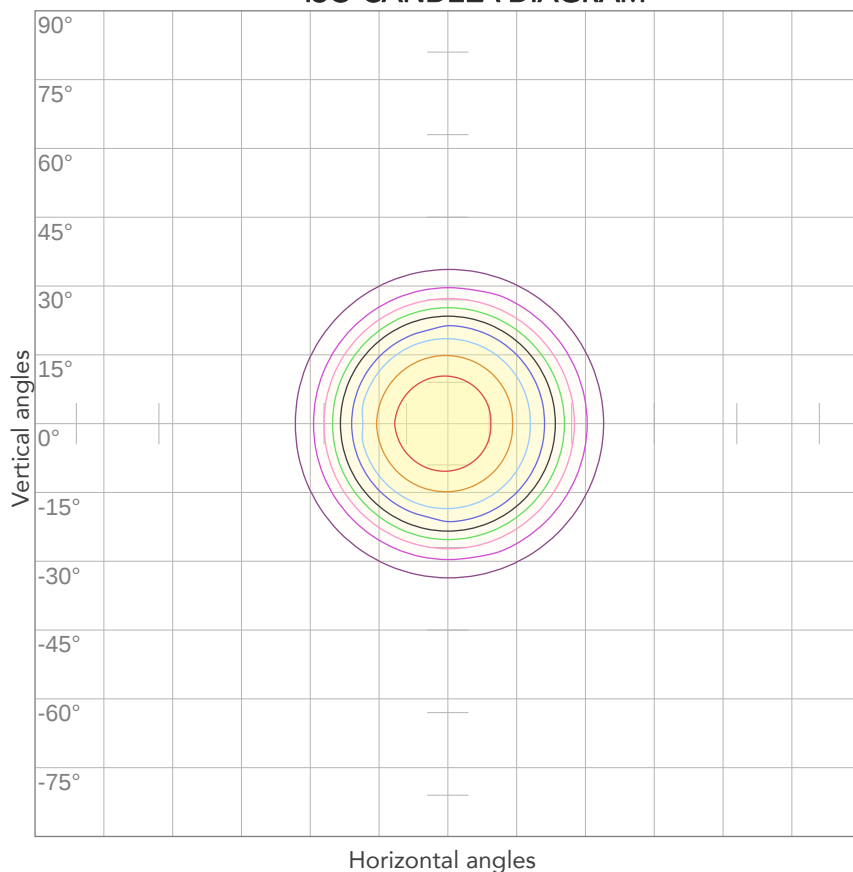


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,635A	138W	24lm/W

Power FC
0,96

ISO CANDELA DIAGRAM



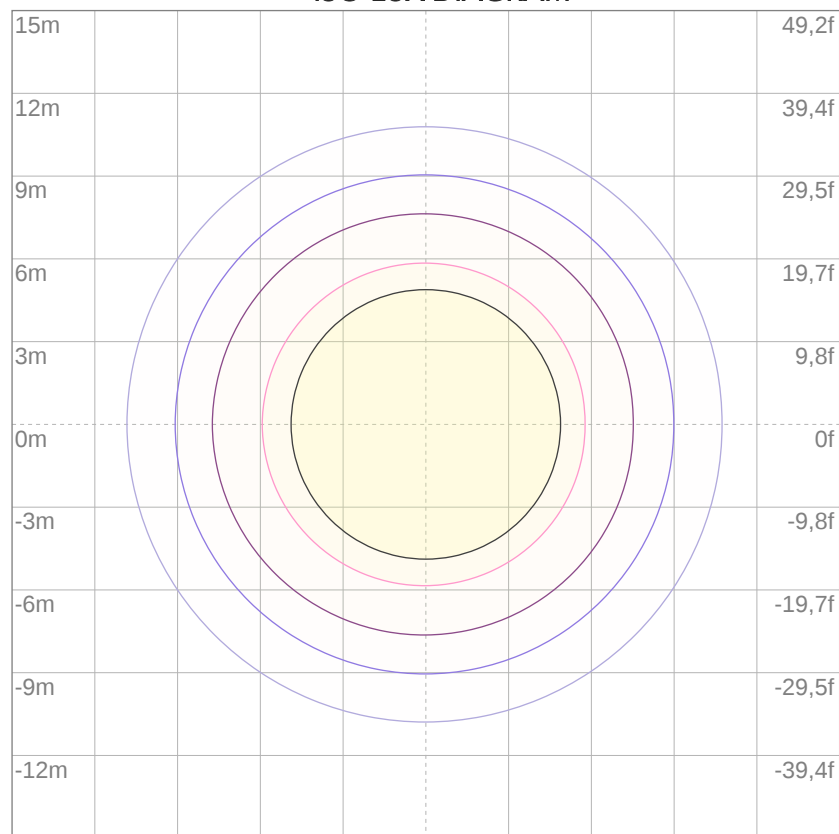
10%	466 cd
20%	932 cd
30%	1398 cd
40%	1863 cd
50%	2329 cd
60%	2795 cd
70%	3261 cd
80%	3727 cd

Conditions:

Number of c-planes: 2

Candela at center: 4659 cd

ISO LUX DIAGRAM



3%	1,40 lx
5%	2,33 lx
10%	4,66 lx
30%	14,0 lx
50%	23,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 46,6 lx

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



Total lumen output:

873 lm

Peak candela output:

5575 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow

Target:

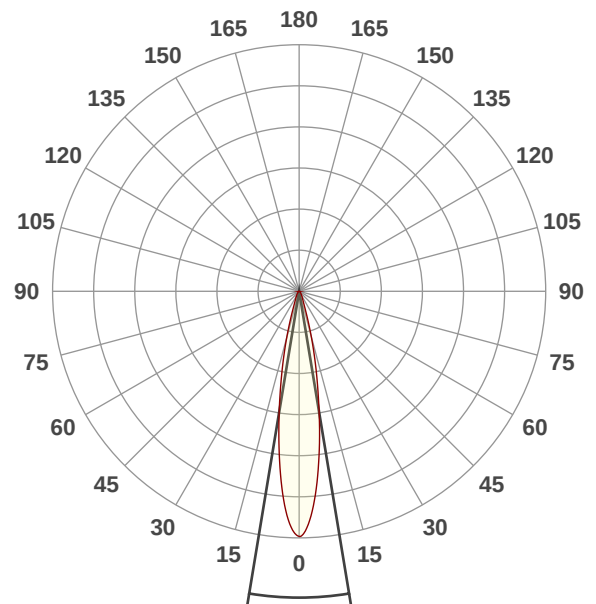
Red

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:00:17

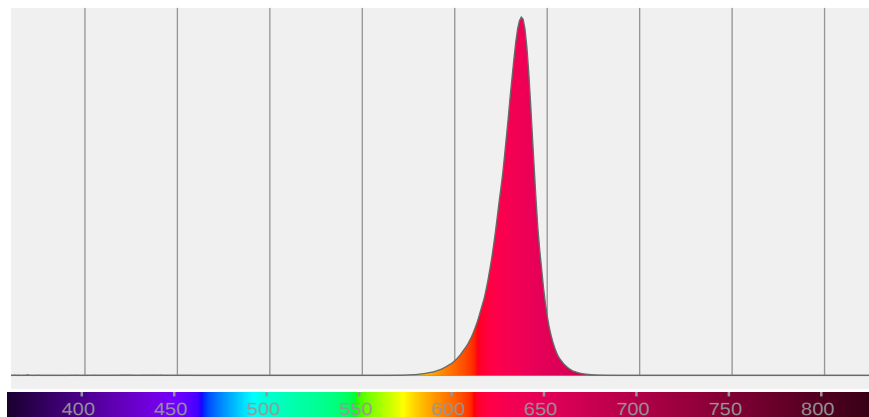


Beam angle 50%: 18,8°

Field angle 10%: 35,6°

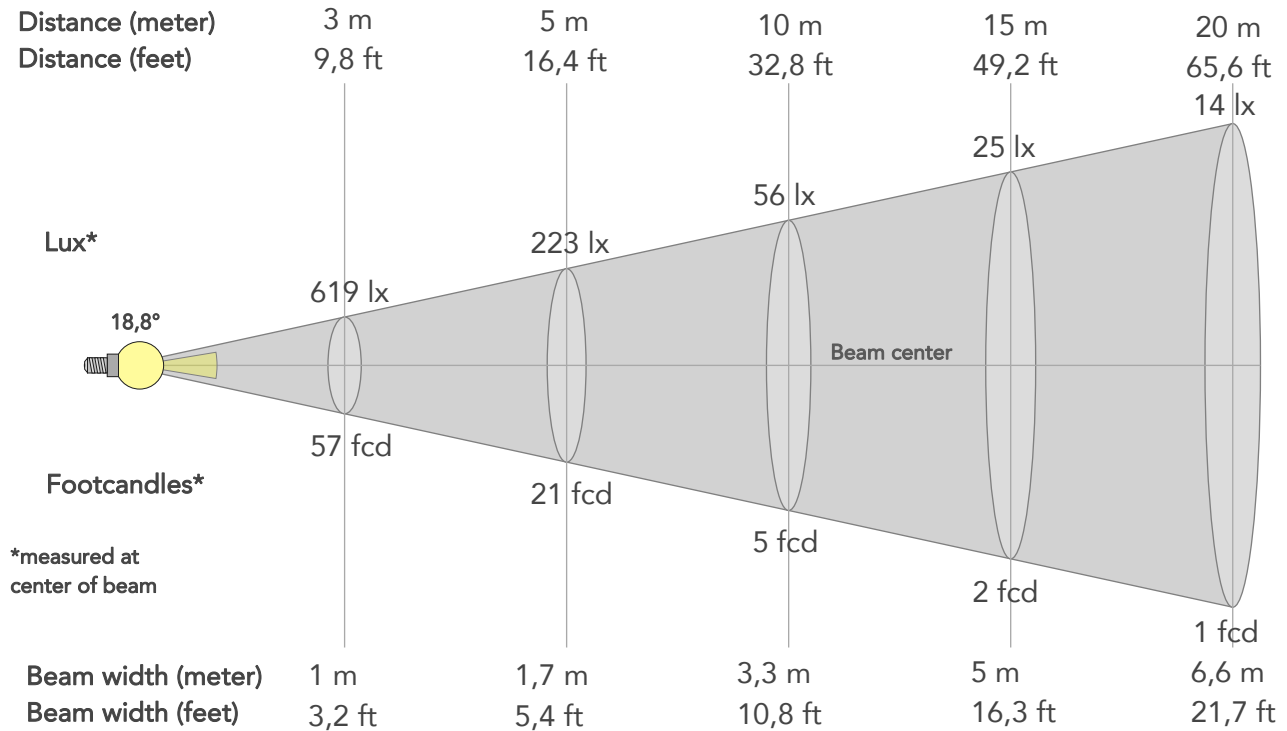
Cut off angle 2.5%: 56,4°

Spectra



BEAM DETAILS

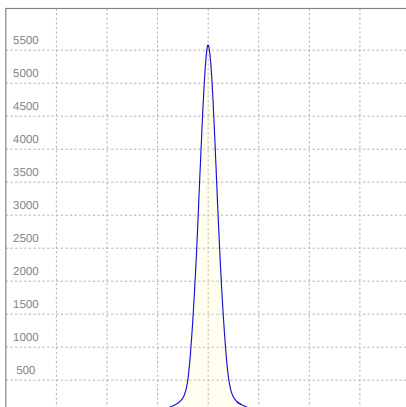
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,8°	35,6°	56,4°	99,0%	95,3%



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	5568lx	1392lx	619lx	348lx	223lx	99lx	56lx	25lx	14lx	9lx	6lx	3lx	2lx
Footcand.	517fcd	129fcd	57fcd	32fcd	21fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,6m	8,3m	9,9m	13,2m	16,5m
Beam wid.	1,1ft	2,2ft	3,2ft	4,3ft	5,4ft	8,1ft	10,8ft	16,3ft	21,7ft	27,1ft	32,5ft	43,4ft	54,2ft

LINEAR DISTRIBUTION DIAGRAM

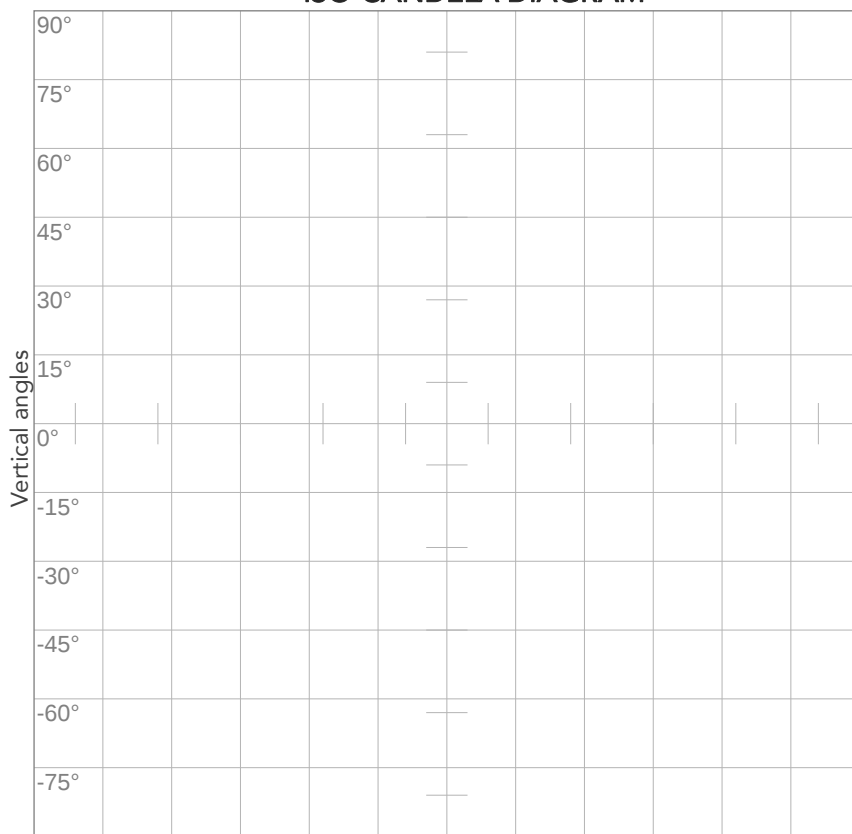


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Efficiency
225V	0,197A	40,1W	22lm/W

Power FC
0,91

ISO CANDELA DIAGRAM



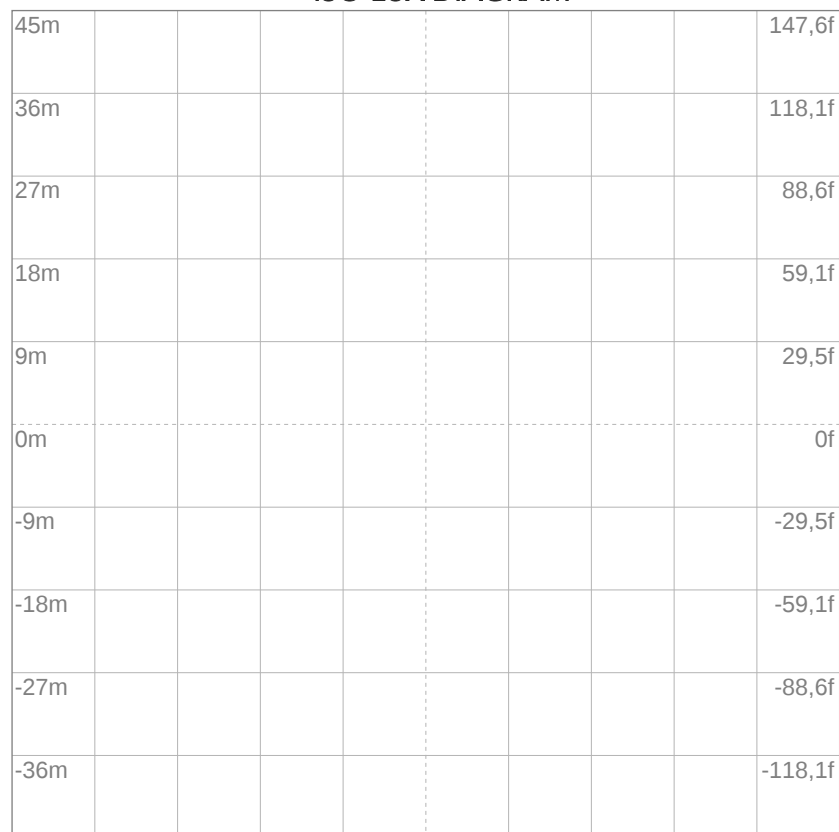
10%	557 cd
20%	1114 cd
30%	1670 cd
40%	2227 cd
50%	2784 cd
60%	3341 cd
70%	3897 cd
80%	4454 cd

Conditions:

Number of c-planes: 2

Candela at center: 5568 cd

ISO LUX DIAGRAM



3%	1,67 lx
5%	2,78 lx
10%	5,57 lx
30%	16,7 lx
50%	27,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 55,7 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:

769 lm

Peak candela output:

1453 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Medium

Target:

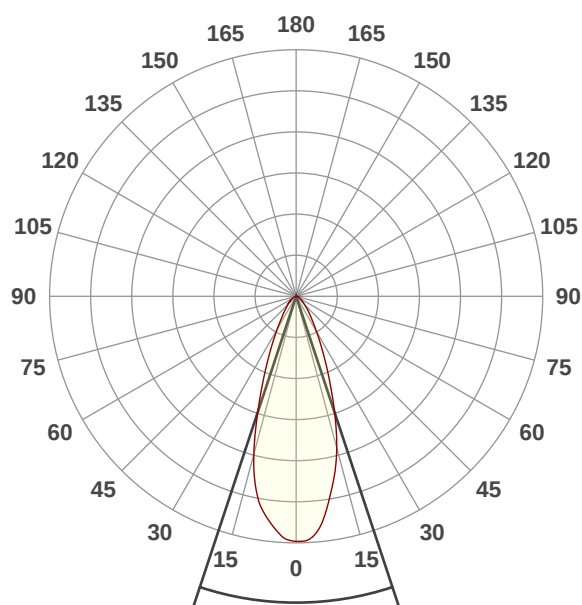
Red

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:54:55

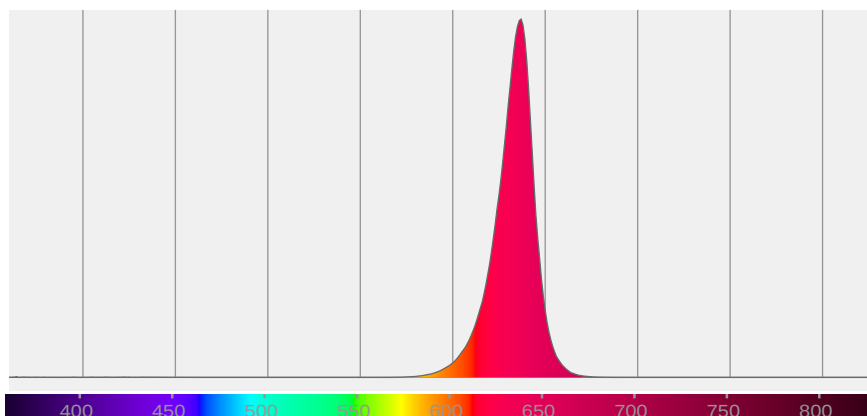


Beam angle 50%: 36,6°

Field angle 10%: 70,7°

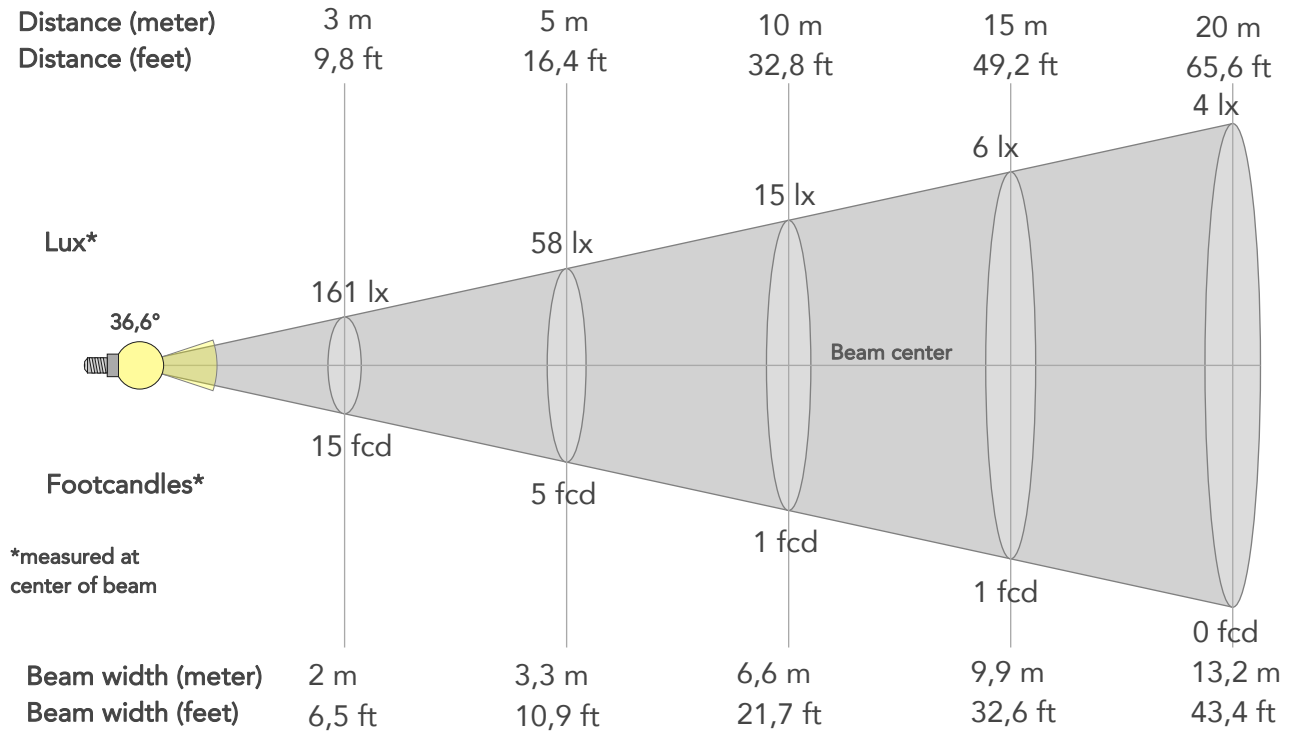
Cut off angle 2.5%: 111,6°

Spectra



BEAM DETAILS

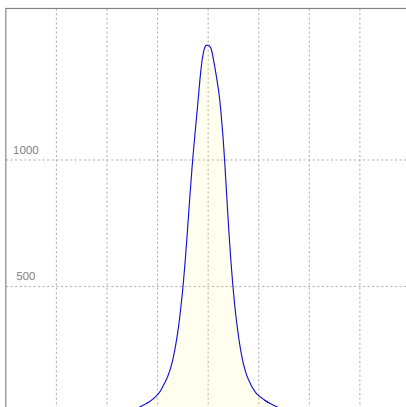
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36,6°	70,7°	111,6°	97,2%	89,5%



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	1452lx	363lx	161lx	91lx	58lx	26lx	15lx	6lx	4lx	2lx	2lx	1lx	1lx
Footcand.	135fcd	34fcd	15fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,6m	3,3m	5m	6,6m	9,9m	13,2m	16,6m	19,9m	26,5m	33,1m
Beam wid.	2,2ft	4,4ft	6,5ft	8,7ft	10,9ft	16,3ft	21,7ft	32,6ft	43,4ft	54,3ft	65,2ft	86,9ft	108,6ft

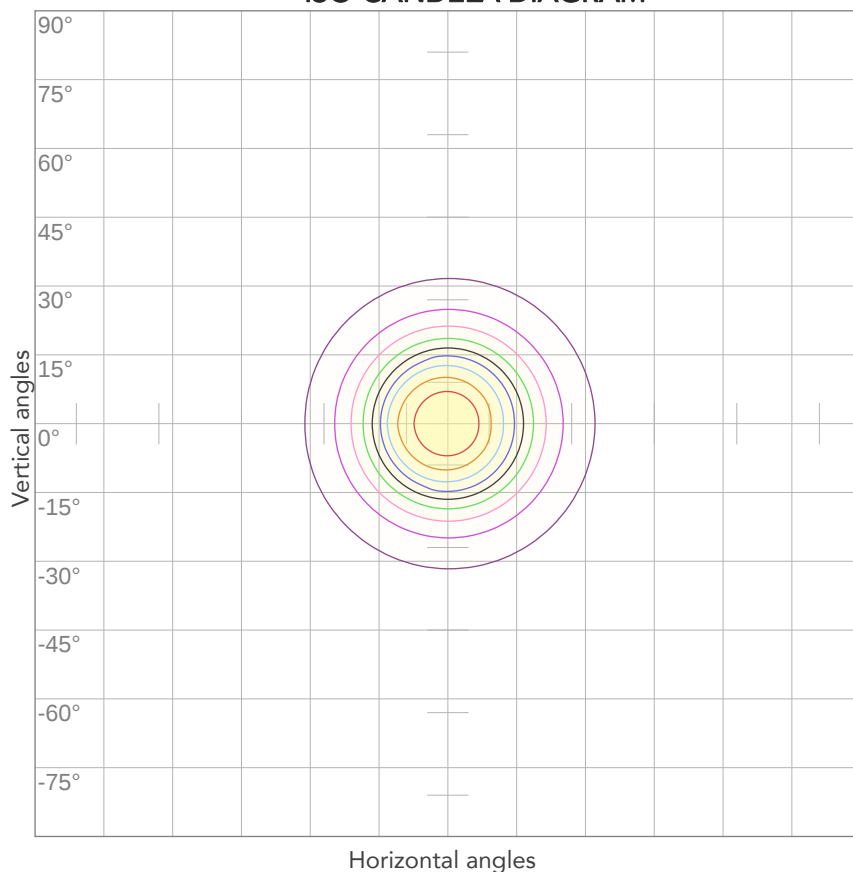
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,195A	40,0W	19lm/W
Power FC			
0,91			

ISO CANDELA DIAGRAM



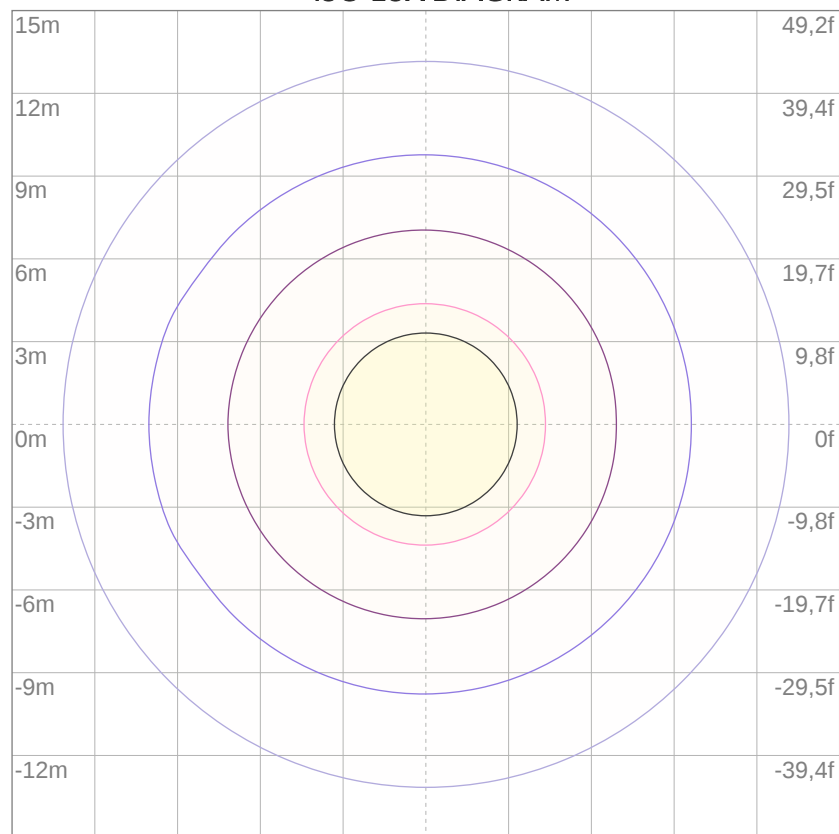
10%	145 cd
20%	290 cd
30%	436 cd
40%	581 cd
50%	726 cd
60%	871 cd
70%	1016 cd
80%	1162 cd

Conditions:

Number of c-planes: 2

Candela at center: 1452 cd

ISO LUX DIAGRAM



3%	0,436 lx
5%	0,726 lx
10%	1,45 lx
30%	4,36 lx
50%	7,26 lx

Conditions:

Number of c-planes: 2

Lux at center: 14,5 lx

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



Total lumen output:

811 lm

Peak candela output:

1192 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide

Target:

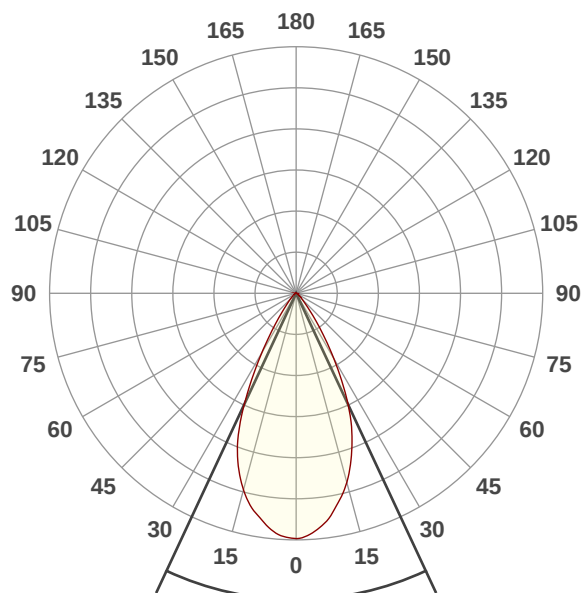
Red

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:35:02

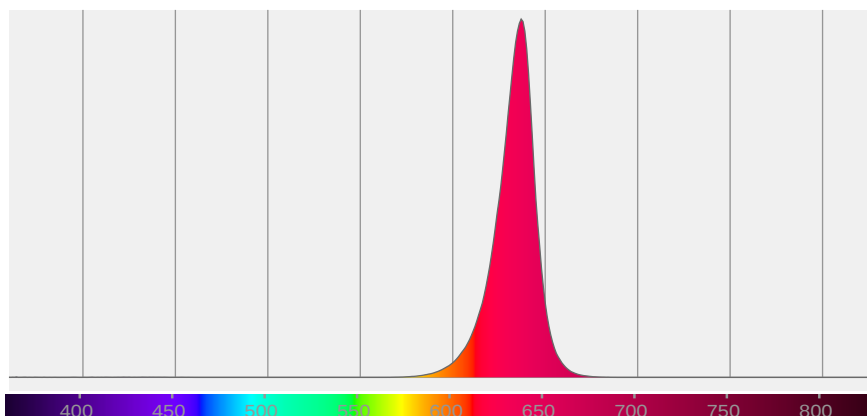


Beam angle 50%: 50,1°

Field angle 10%: 74,3°

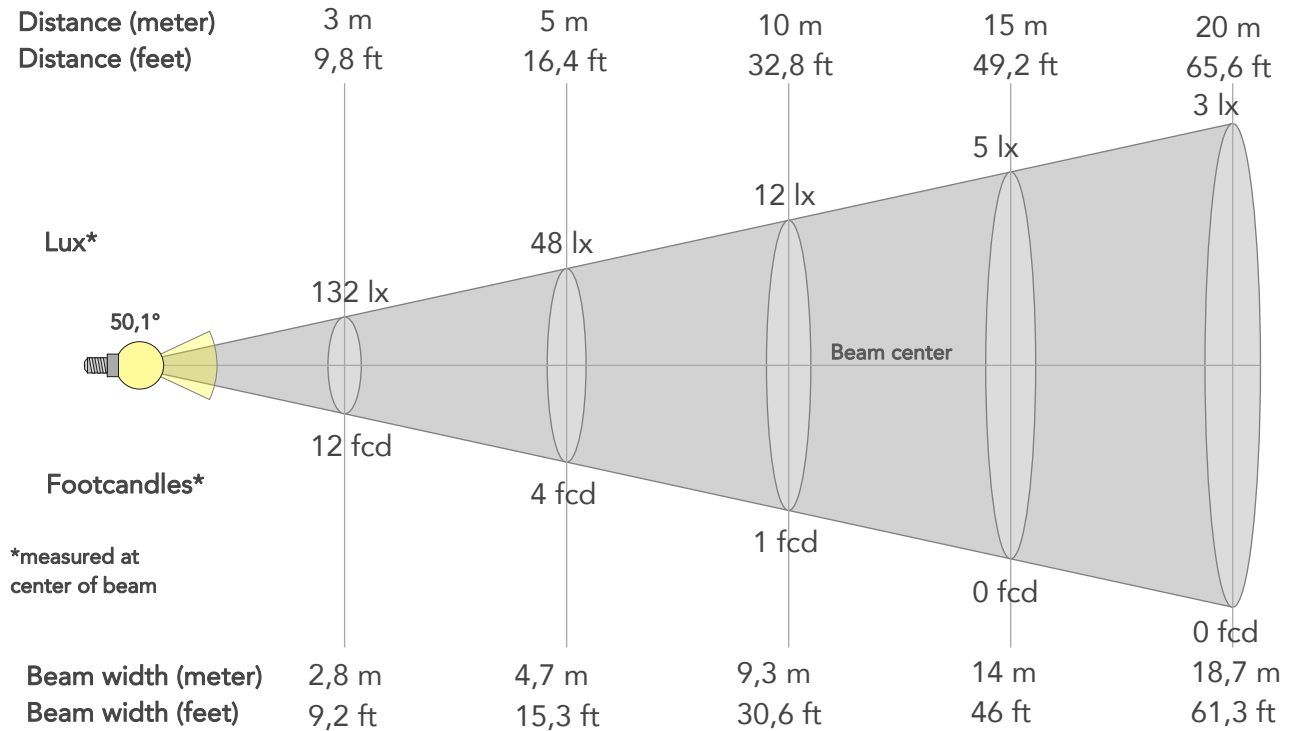
Cut off angle 2.5%: 96,2°

Spectra



BEAM DETAILS

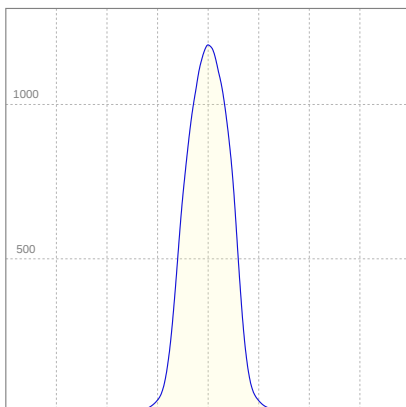
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50,1°	74,3°	96,2°	99,1%	95,8%



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	1191lx	298lx	132lx	74lx	48lx	21lx	12lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	111fcd	28fcd	12fcd	7fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,7m	4,7m	7m	9,3m	14m	18,7m	23,4m	28m	37,4m	46,7m
Beam wid.	3,1ft	6,2ft	9,2ft	12,2ft	15,3ft	23ft	30,6ft	46ft	61,3ft	76,6ft	91,9ft	122,6ft	153,2ft

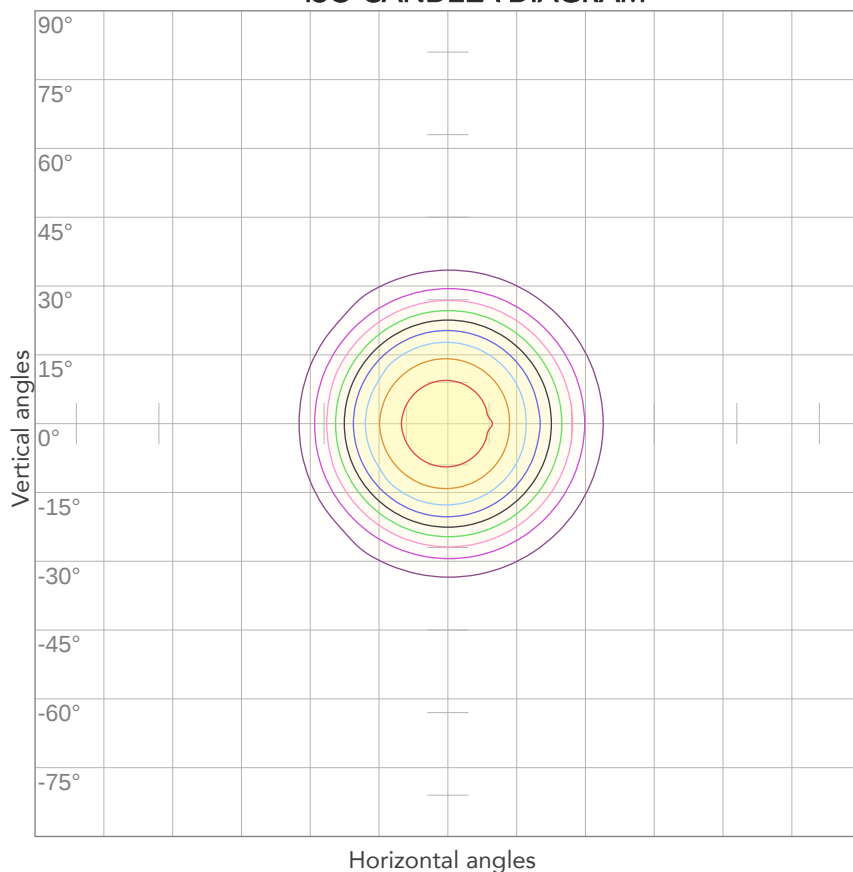
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,195A	40,1W	20lm/W
Power FC			
0,91			

ISO CANDELA DIAGRAM



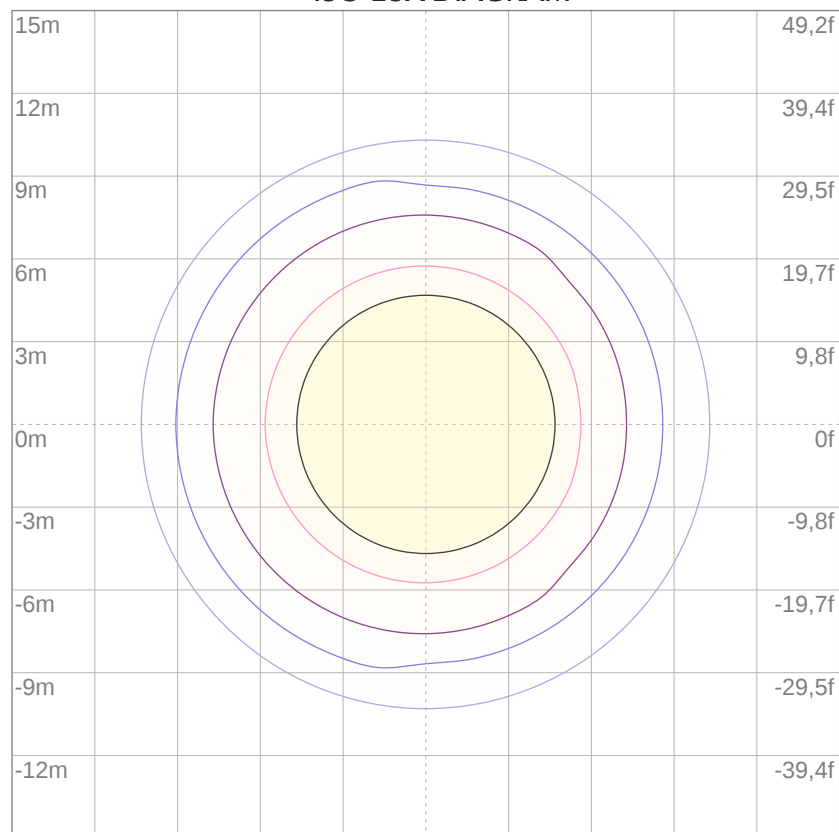
10%	119 cd
20%	238 cd
30%	357 cd
40%	476 cd
50%	596 cd
60%	715 cd
70%	834 cd
80%	953 cd

Conditions:

Number of c-planes: 2

Candela at center: 1191 cd

ISO LUX DIAGRAM



3%	0,357 lx
5%	0,596 lx
10%	1,19 lx
30%	3,57 lx
50%	5,96 lx

Conditions:

Number of c-planes: 2

Lux at center: 11,9 lx

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



Total lumen output:

1107 lm

Peak candela output:

6810 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow

Target:

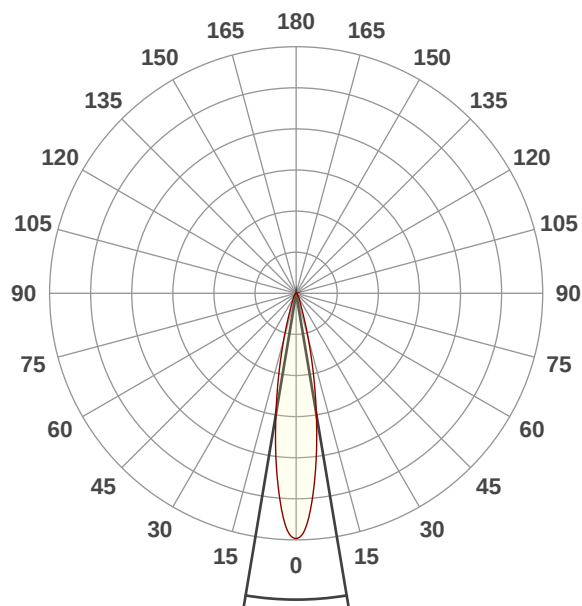
Green

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:01:48

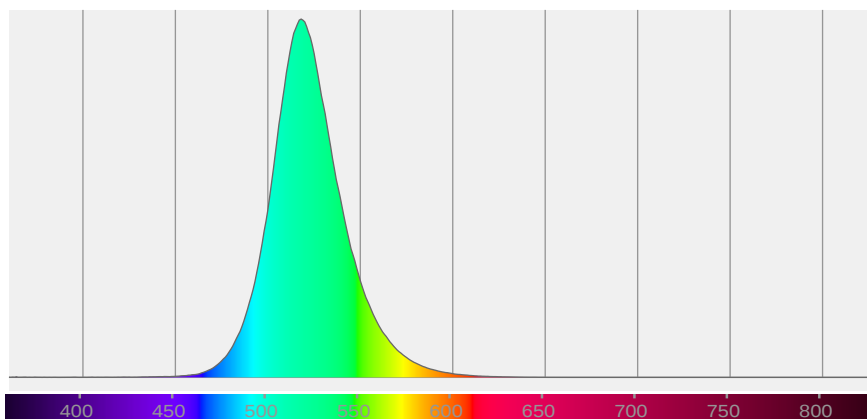


Beam angle 50%: 19°

Field angle 10%: 36°

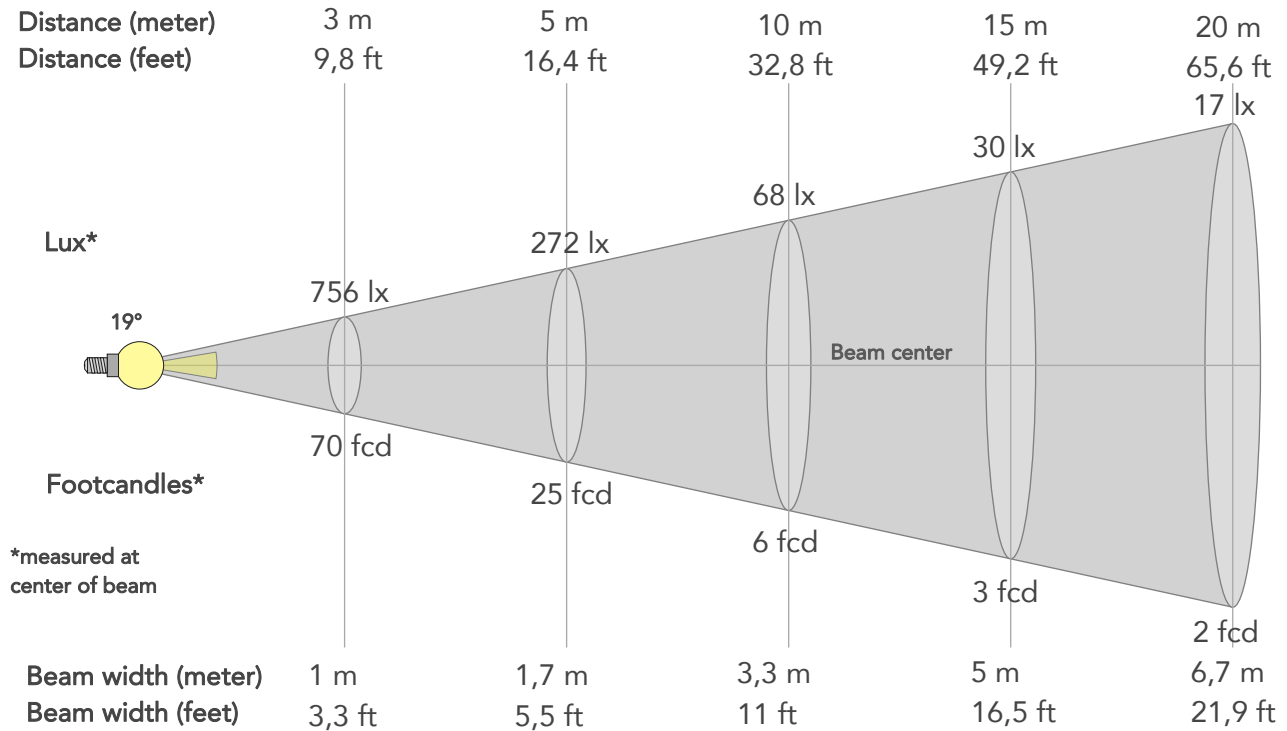
Cut off angle 2.5%: 58,7°

Spectra



BEAM DETAILS

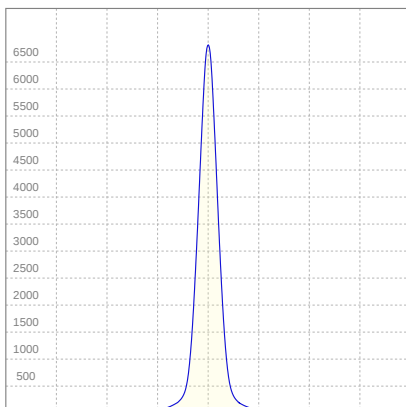
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19°	36°	58,7°	98,7%	94,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	6803lx	1701lx	756lx	425lx	272lx	121lx	68lx	30lx	17lx	11lx	8lx	4lx	3lx
Footcand.	632fcd	158fcd	70fcd	40fcd	25fcd	11fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,7m	8,4m	10m	13,4m	16,7m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,2ft	11ft	16,5ft	21,9ft	27,4ft	32,9ft	43,9ft	54,9ft

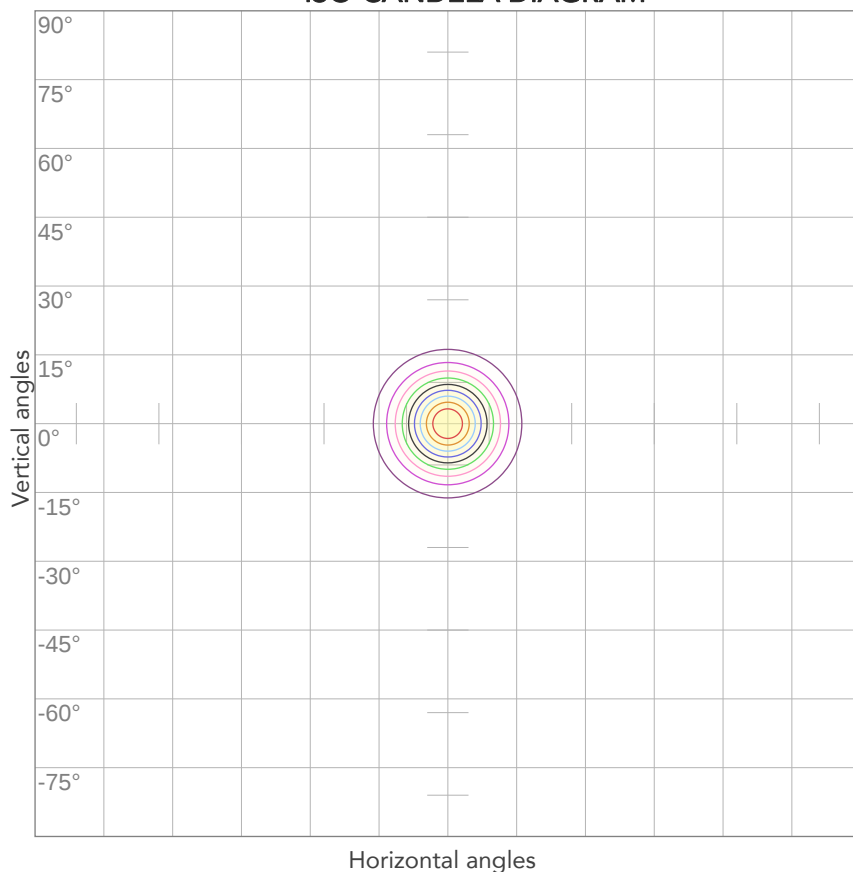
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,213A	44,0W	25lm/W
Power FC			
0,92			

ISO CANDELA DIAGRAM



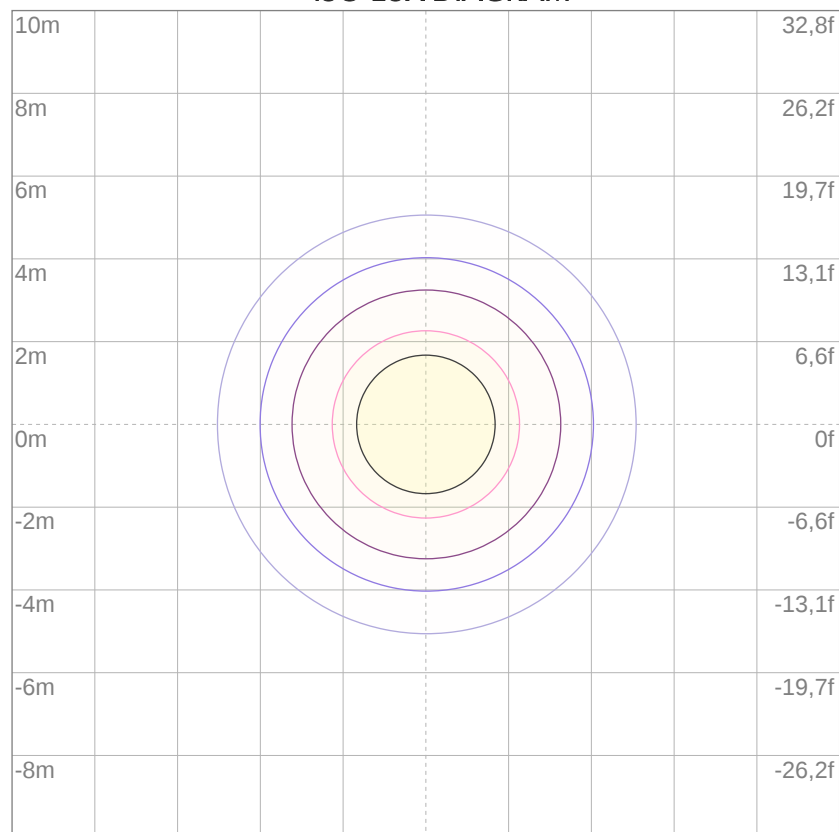
10%	680 cd
20%	1361 cd
30%	2041 cd
40%	2721 cd
50%	3401 cd
60%	4082 cd
70%	4762 cd
80%	5442 cd

Conditions:

Number of c-planes: 2

Candela at center: 6803 cd

ISO LUX DIAGRAM



3%	2,04 lx
5%	3,40 lx
10%	6,80 lx
30%	20,4 lx
50%	34,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 68,0 lx

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



Total lumen output:

971 lm

Peak candela output:

1769 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Medium

Target:

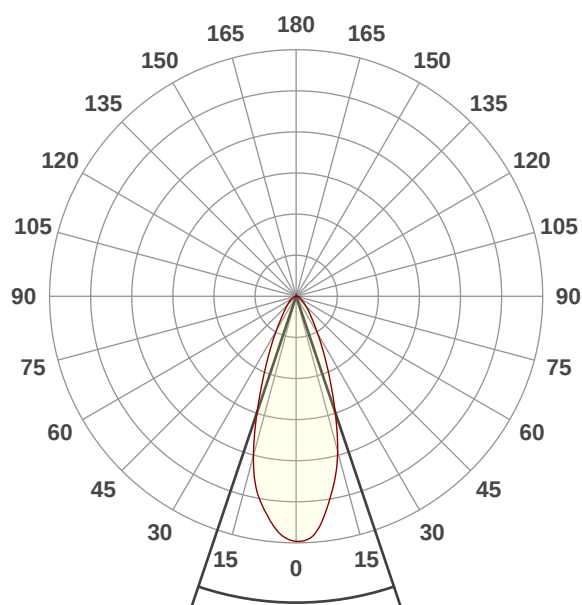
Green

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:56:23

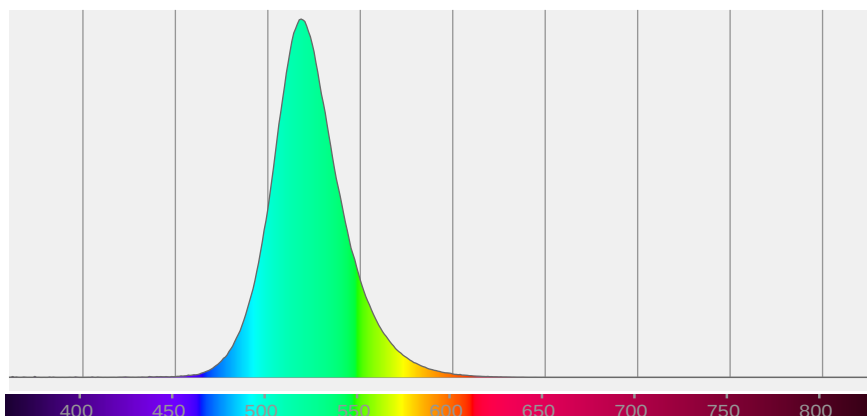


Beam angle 50%: 37,2°

Field angle 10%: 72°

Cut off angle 2.5%: 115,1°

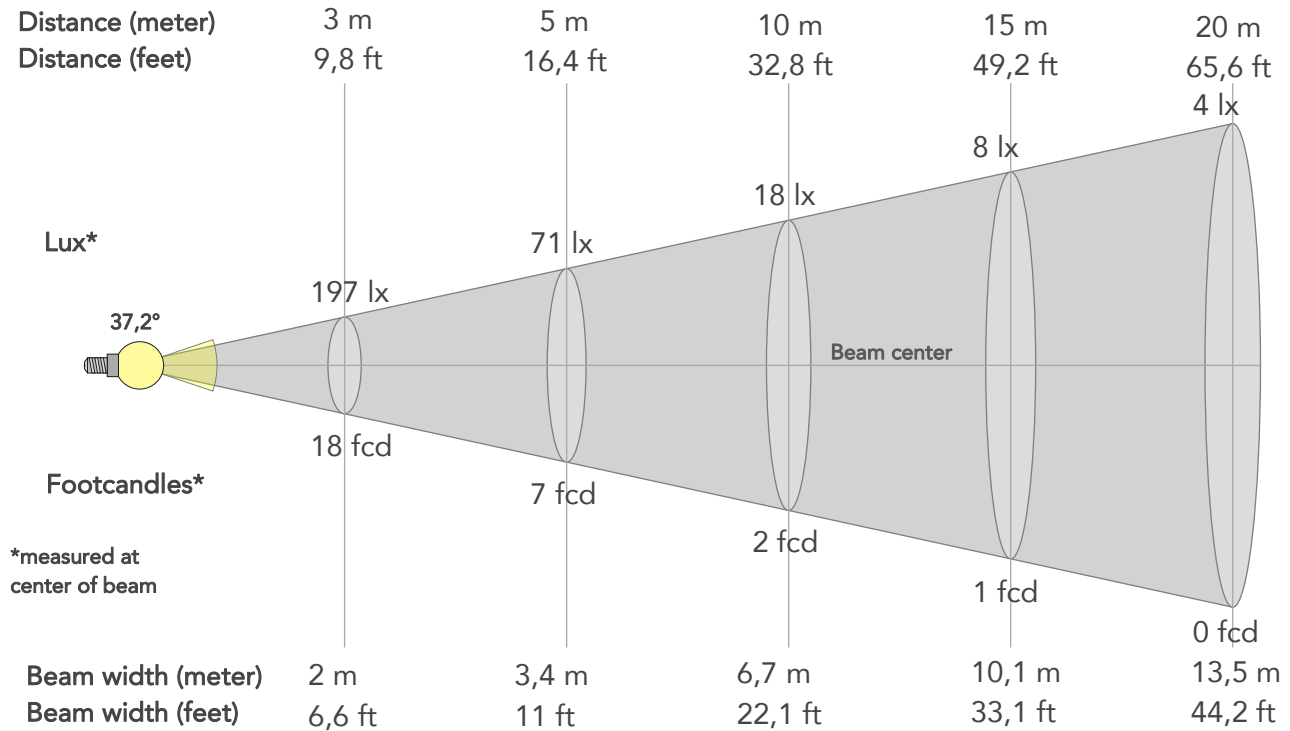
Spectra



BEAM DETAILS



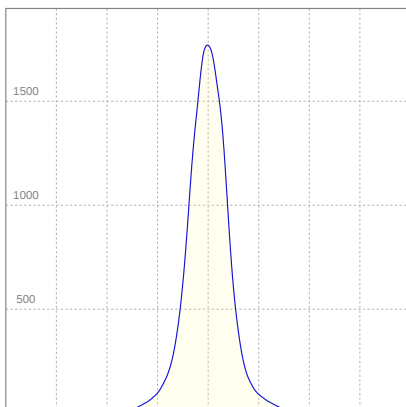
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,2°	72°	115,1°	96,9%	88,7%



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	1769lx	442lx	197lx	111lx	71lx	31lx	18lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	164fcd	41fcd	18fcd	10fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,7m	3,4m	5,1m	6,7m	10,1m	13,5m	16,8m	20,2m	27m	33,7m
Beam wid.	2,2ft	4,4ft	6,6ft	8,8ft	11ft	16,6ft	22,1ft	33,1ft	44,2ft	55,2ft	66,3ft	88,4ft	110,5ft

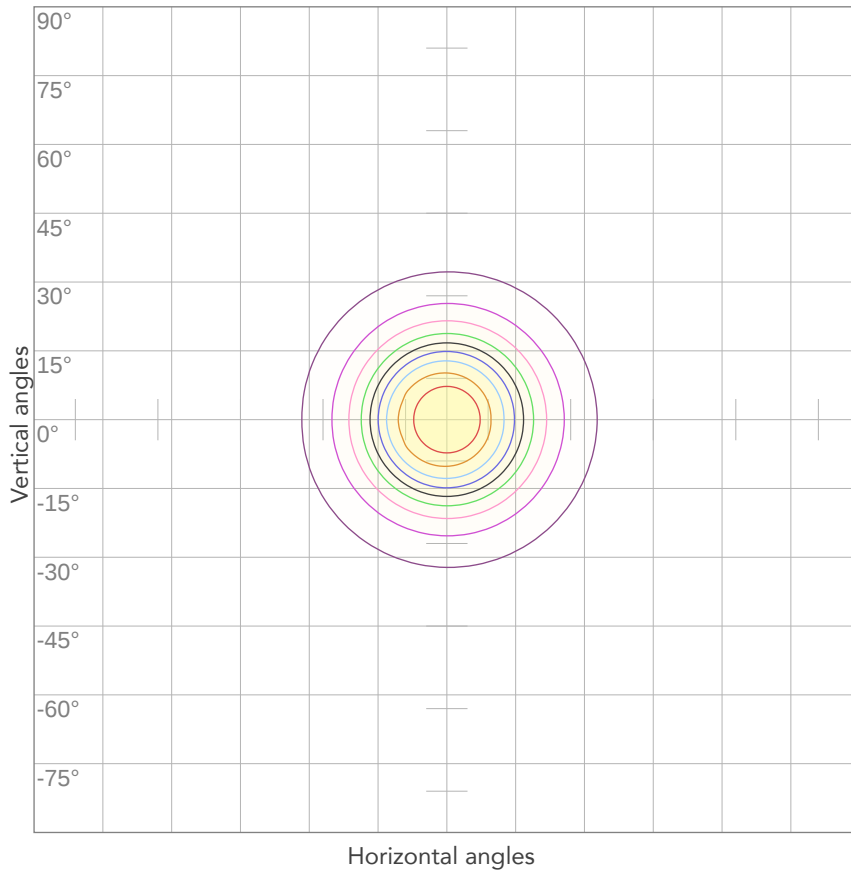
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,209A	43,3W	22lm/W
Power FC			
0,92			

ISO CANDELA DIAGRAM



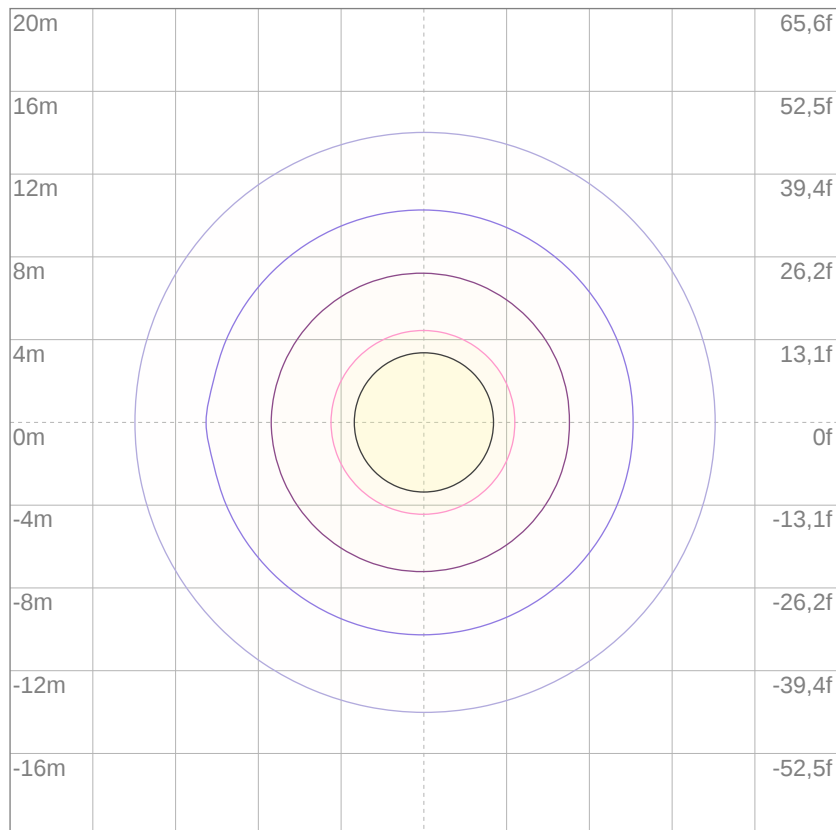
10%	177 cd
20%	354 cd
30%	531 cd
40%	707 cd
50%	884 cd
60%	1061 cd
70%	1238 cd
80%	1415 cd

Conditions:

Number of c-planes: 2

Candela at center: 1769 cd

ISO LUX DIAGRAM



3%	0,531 lx
5%	0,884 lx
10%	1,77 lx
30%	5,31 lx
50%	8,84 lx

Conditions:

Number of c-planes: 2

Lux at center: 17,7 lx

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



Total lumen output:

1029 lm

Peak candela output:

1401 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide

Target:

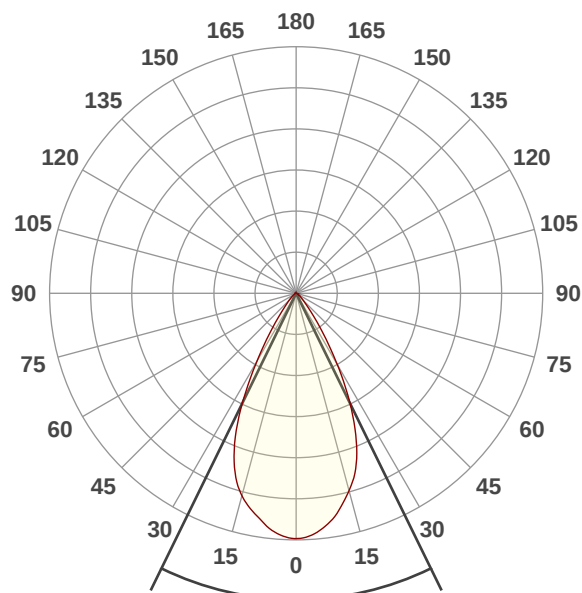
Green

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:38:31

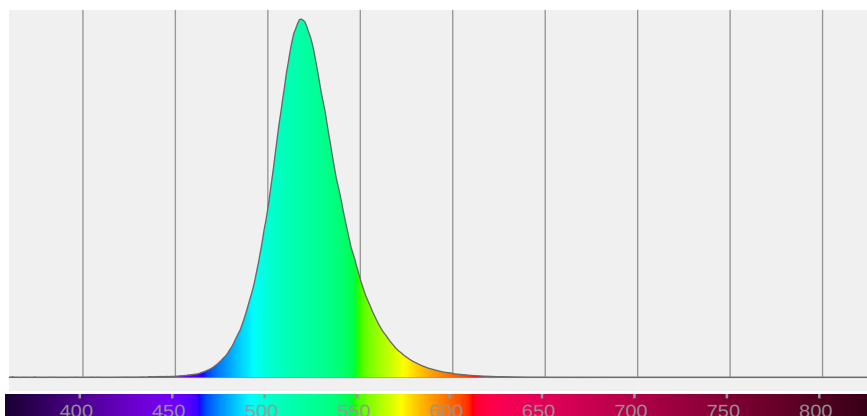


Beam angle 50%: 52,2°

Field angle 10%: 76,4°

Cut off angle 2.5%: 100,1°

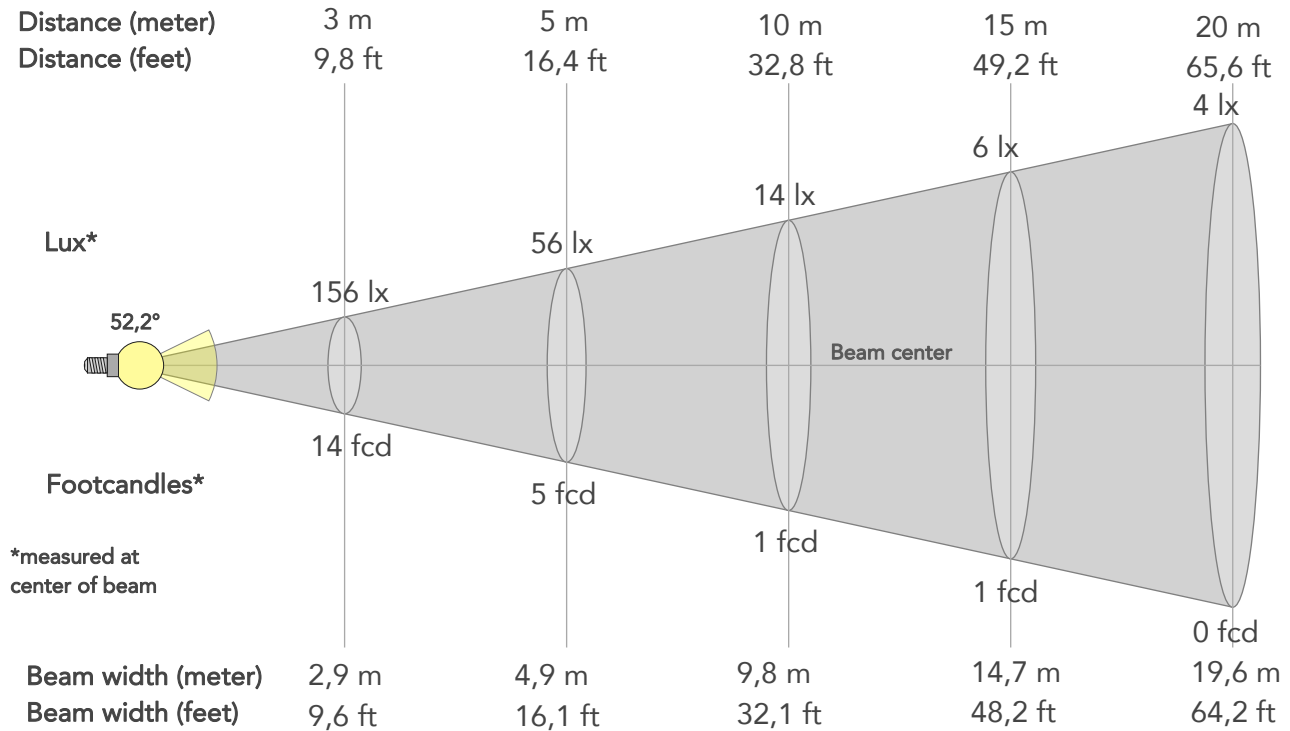
Spectra



BEAM DETAILS



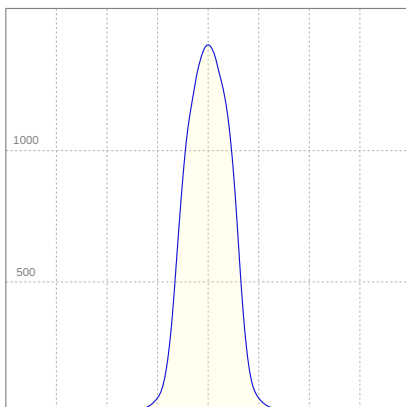
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,2°	76,4°	100,1°	98,9%	95,0%



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	1401lx	350lx	156lx	88lx	56lx	25lx	14lx	6lx	4lx	2lx	2lx	1lx	1lx
Footcand.	130fcd	33fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	2,9m	3,9m	4,9m	7,3m	9,8m	14,7m	19,6m	24,5m	29,4m	39,2m	49m
Beam wid.	3,2ft	6,5ft	9,6ft	12,8ft	16,1ft	24,1ft	32,1ft	48,2ft	64,2ft	80,3ft	96,4ft	128,5ft	160,6ft

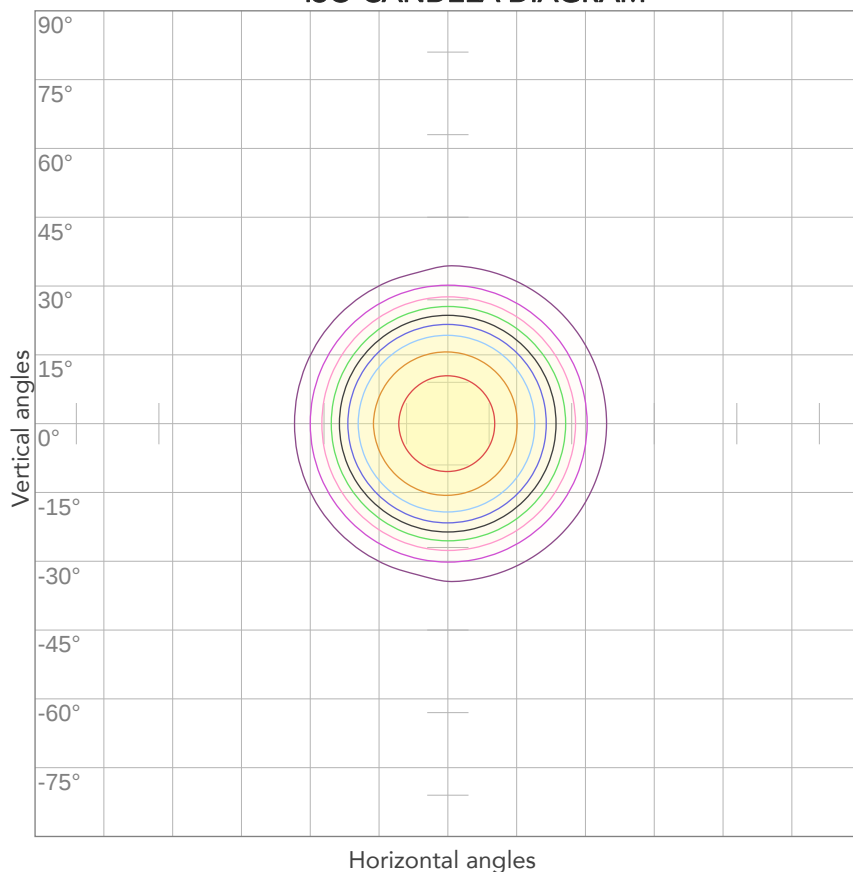
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,356A	38,7W	27lm/W
Power FC			
0,48			

ISO CANDELA DIAGRAM



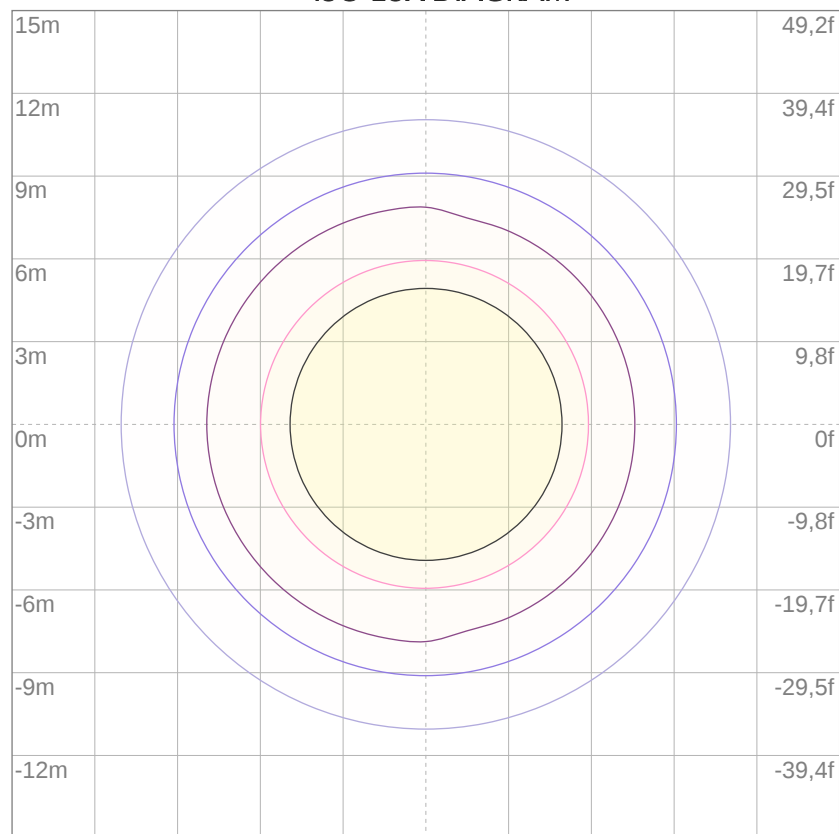
10%	140 cd
20%	280 cd
30%	420 cd
40%	560 cd
50%	700 cd
60%	840 cd
70%	980 cd
80%	1120 cd

Conditions:

Number of c-planes: 2

Candela at center: 1401 cd

ISO LUX DIAGRAM



3%	0,420 lx
5%	0,700 lx
10%	1,40 lx
30%	4,20 lx
50%	7,00 lx

Conditions:

Number of c-planes: 2

Lux at center: 14,0 lx

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



Total lumen output:

206 lm

Peak candela output:

1177 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow

Target:

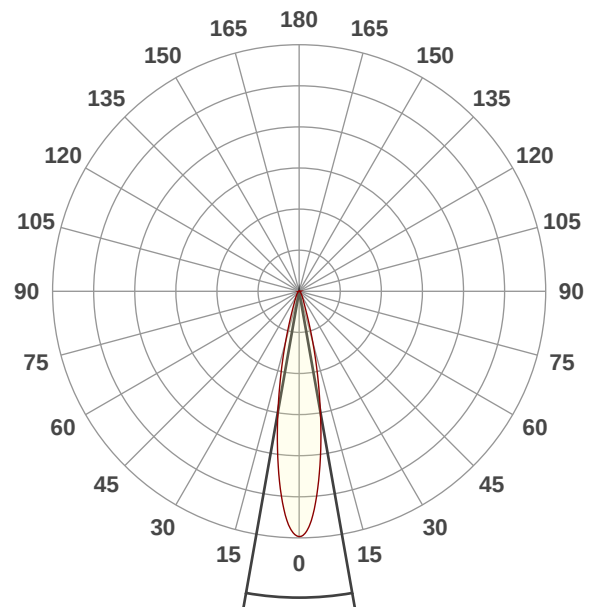
Blue

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:03:16

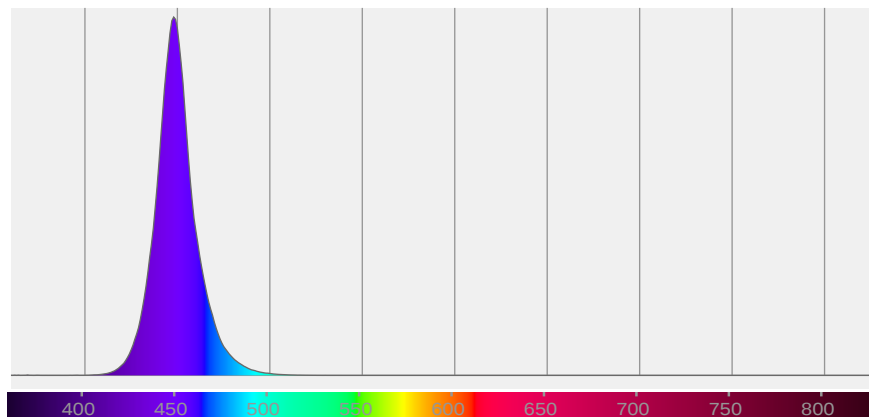


Beam angle 50%: 20°

Field angle 10%: 37,2°

Cut off angle 2.5%: 61°

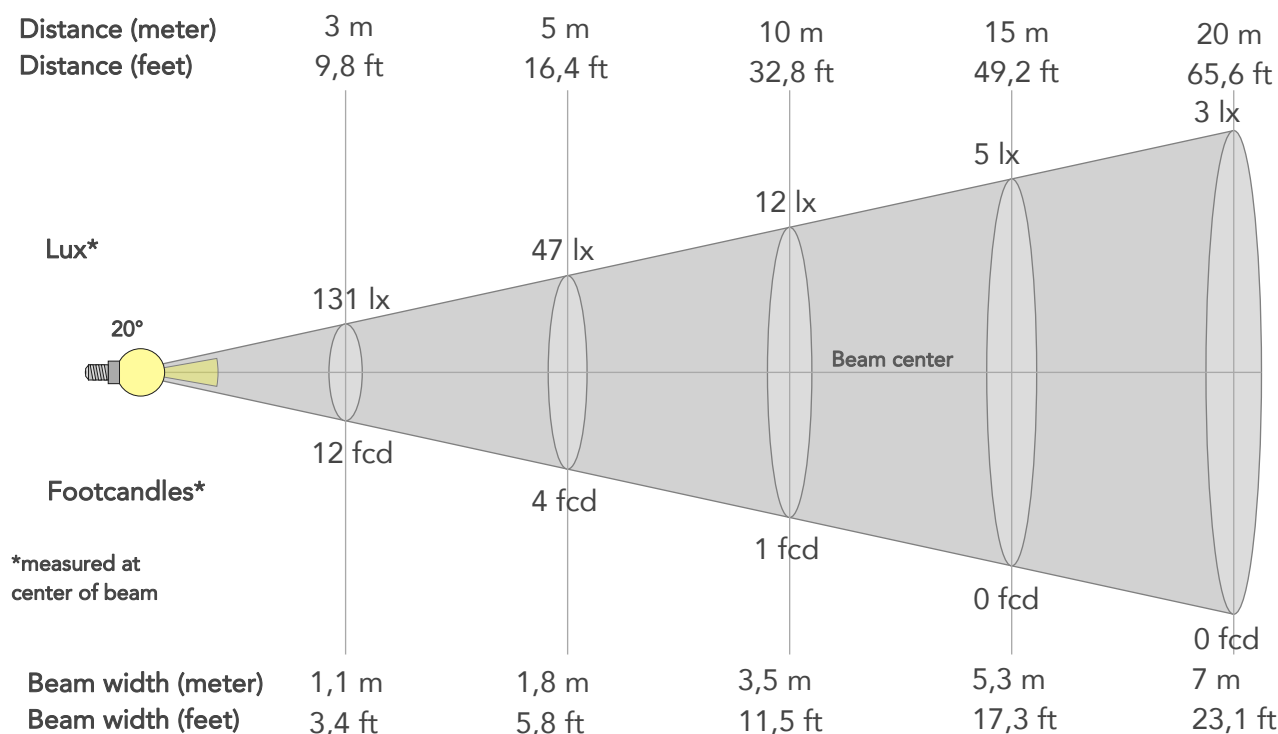
Spectra



BEAM DETAILS



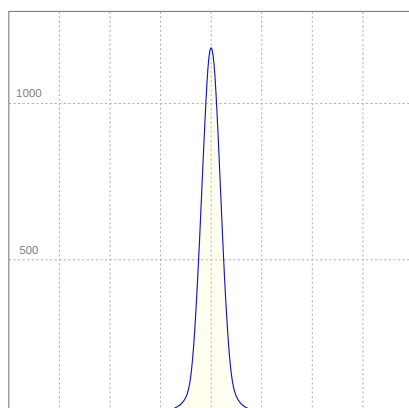
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20°	37,2°	61°	98,4%	94,0%



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	1176lx	294lx	131lx	74lx	47lx	21lx	12lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	109fcd	27fcd	12fcd	7fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,4m	1,8m	2,6m	3,5m	5,3m	7m	8,8m	10,6m	14,1m	17,6m
Beam wid.	1,2ft	2,3ft	3,4ft	4,6ft	5,8ft	8,7ft	11,5ft	17,3ft	23,1ft	28,9ft	34,6ft	46,2ft	57,7ft

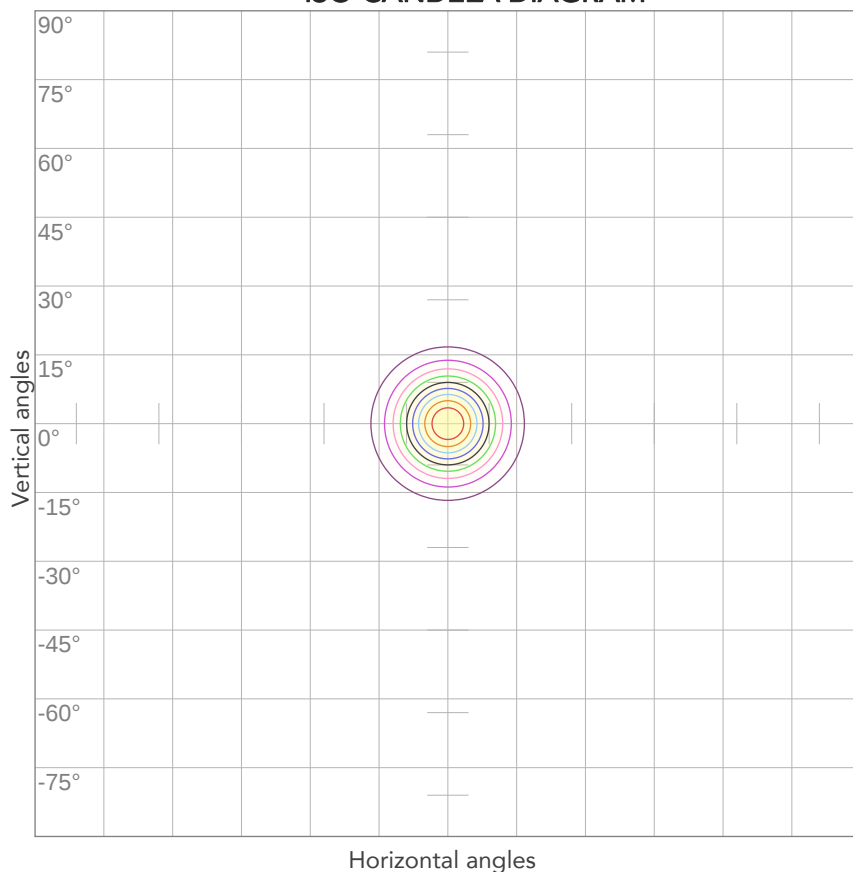
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,326A	33,5W	6lm/W
Power FC			
0,46			

ISO CANDELA DIAGRAM



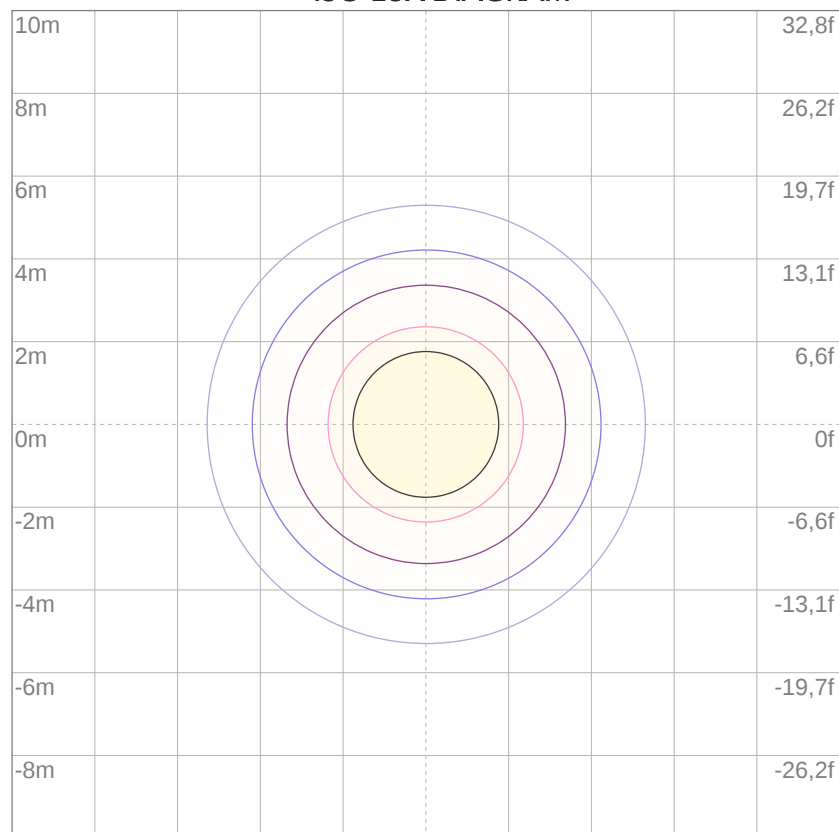
10%	118 cd
20%	235 cd
30%	353 cd
40%	470 cd
50%	588 cd
60%	706 cd
70%	823 cd
80%	941 cd

Conditions:

Number of c-planes: 2

Candela at center: 1176 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,353 lx
5%	0,588 lx
10%	1,18 lx
30%	3,53 lx
50%	5,88 lx

Conditions:

Number of c-planes: 2

Lux at center: 11,8 lx

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



Total lumen output:

181 lm

Peak candela output:

327 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Medium

Target:

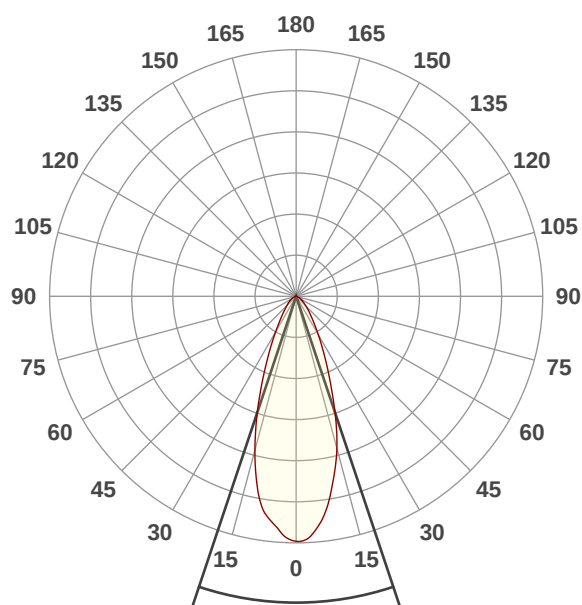
Blue

Operator:

Paolo Carvone

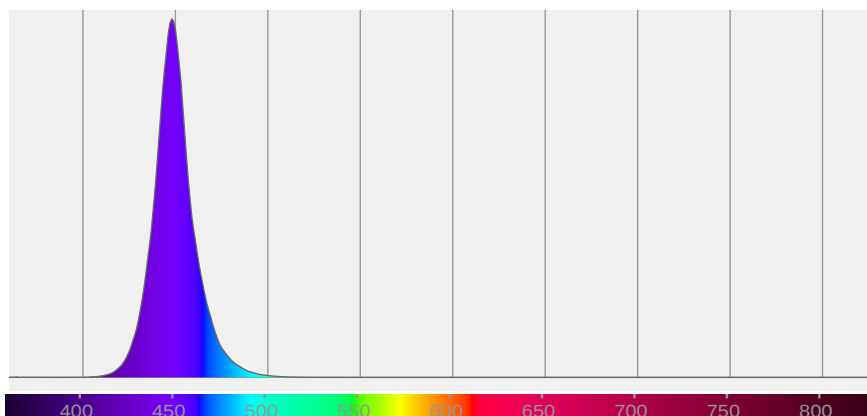
Date and time:

05/02/2021 10:57:53



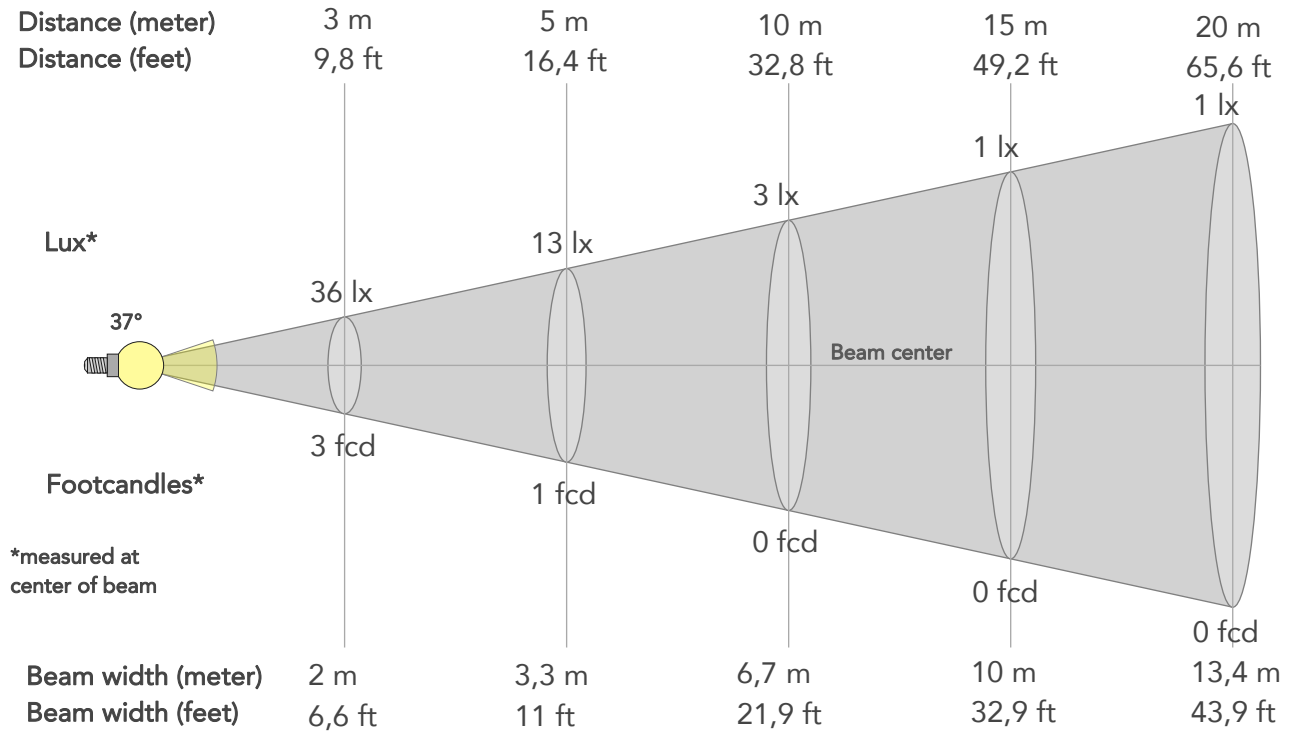
Beam angle 50%: 37°
Field angle 10%: 73,2°
Cut off angle 2.5%: 116°

Spectra



BEAM DETAILS

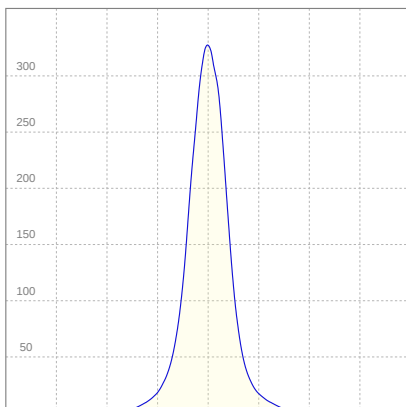
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37°	73,2°	116°	96,6%	88,3%



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	327lx	82lx	36lx	20lx	13lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx	0lx
Footcand.	30fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,7m	3,3m	5m	6,7m	10m	13,4m	16,7m	20,1m	26,8m	33,4m
Beam wid.	2,2ft	4,4ft	6,6ft	8,8ft	11ft	16,5ft	21,9ft	32,9ft	43,9ft	54,9ft	65,8ft	87,8ft	109,7ft

LINEAR DISTRIBUTION DIAGRAM

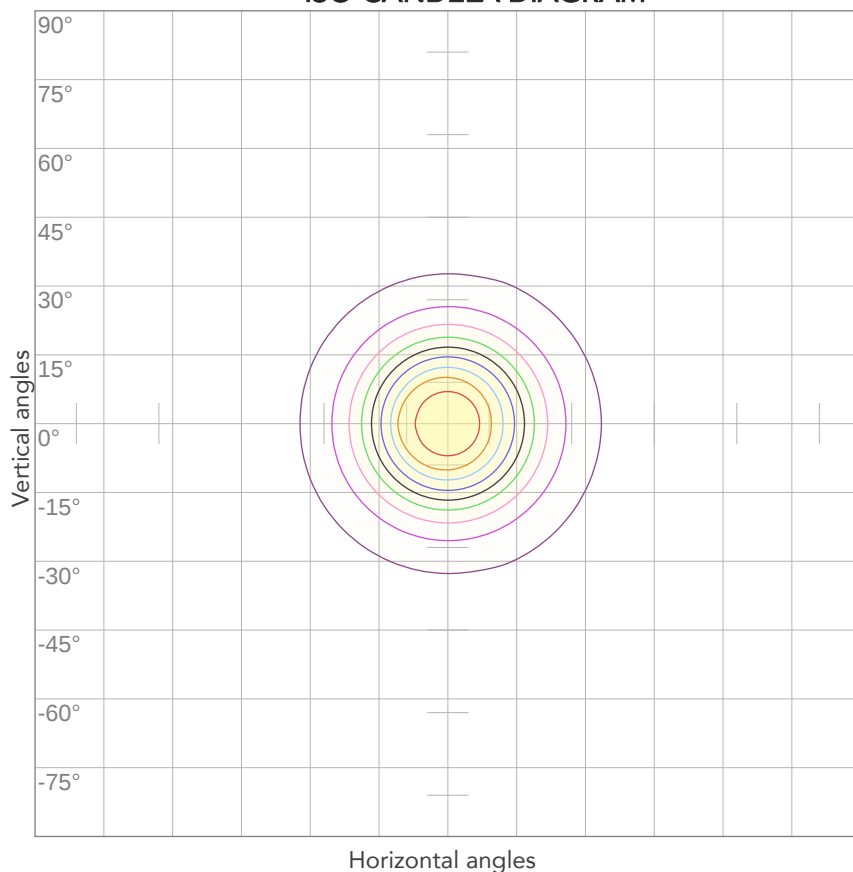


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,305A	33,1W	5lm/W

Power FC
0,48

ISO CANDELA DIAGRAM



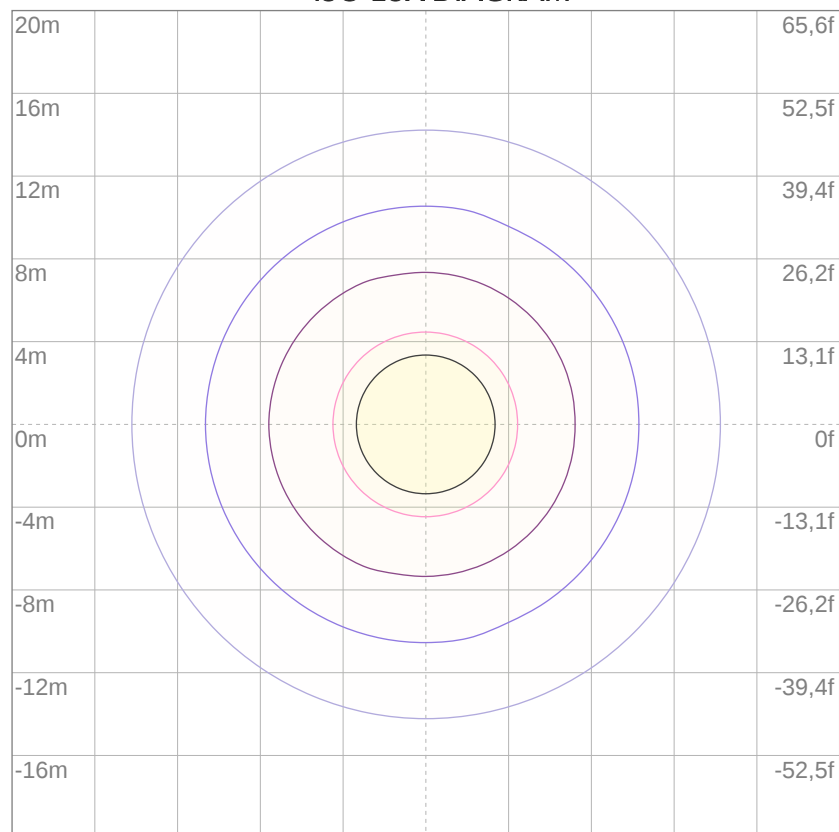
10%	33 cd
20%	65 cd
30%	98 cd
40%	131 cd
50%	163 cd
60%	196 cd
70%	229 cd
80%	261 cd

Conditions:

Number of c-planes: 2

Candela at center: 327 cd

ISO LUX DIAGRAM



3%	98,0m lx
5%	0,163 lx
10%	0,327 lx
30%	0,980 lx
50%	1,63 lx

Conditions:

Number of c-planes: 2

Lux at center: 3,27 lx

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



Total lumen output:

194 lm

Peak candela output:

237 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide

Target:

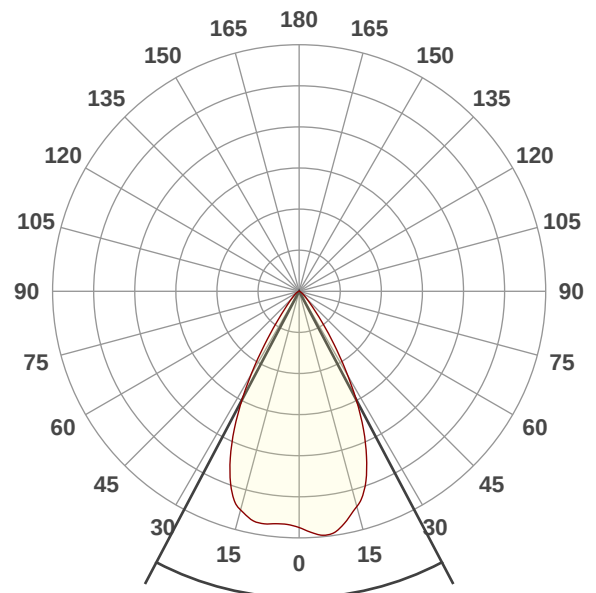
Blue

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:40:48

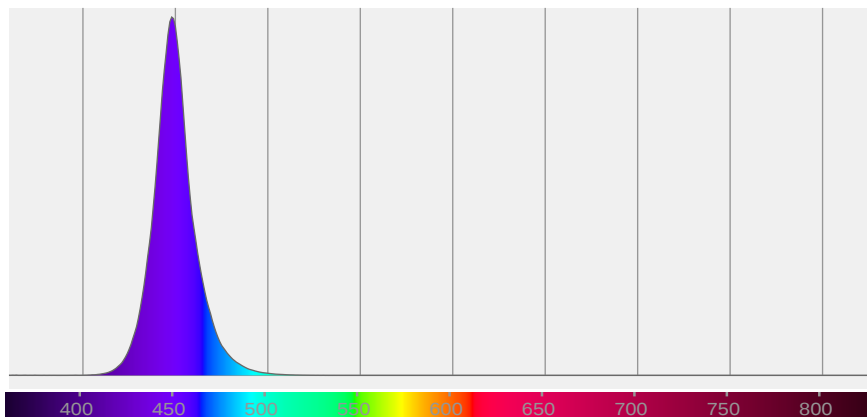


Beam angle 50%: 55,6°

Field angle 10%: 78,1°

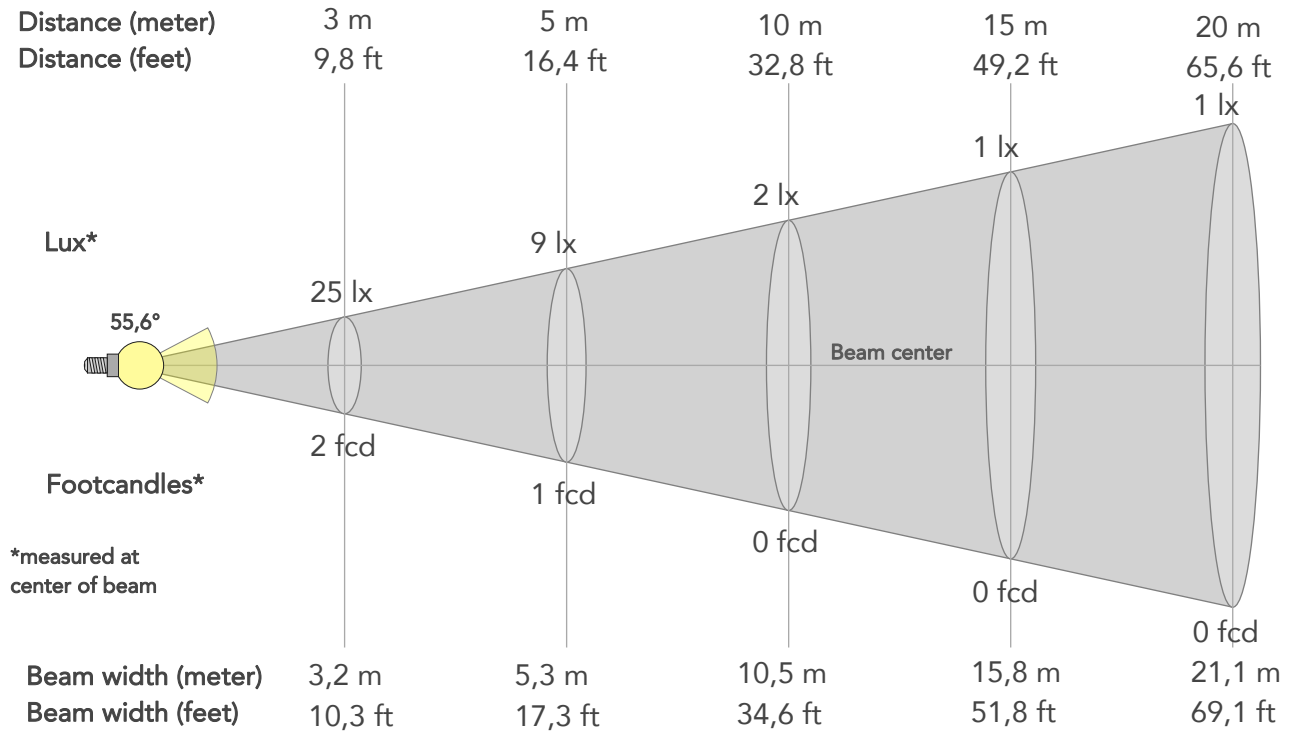
Cut off angle 2.5%: 102,7°

Spectra



BEAM DETAILS

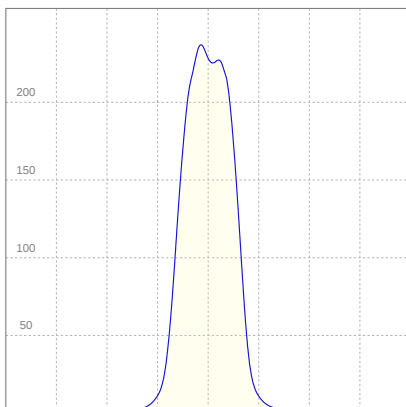
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55,6°	78,1°	102,7°	98,7%	94,9%



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	228lx	57lx	25lx	14lx	9lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	21fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,1m	3,2m	4,2m	5,3m	7,9m	10,5m	15,8m	21,1m	26,3m	31,6m	42,1m	52,7m
Beam wid.	3,5ft	7ft	10,3ft	13,8ft	17,3ft	25,9ft	34,6ft	51,8ft	69,1ft	86,4ft	103,7ft	138,2ft	172,8ft

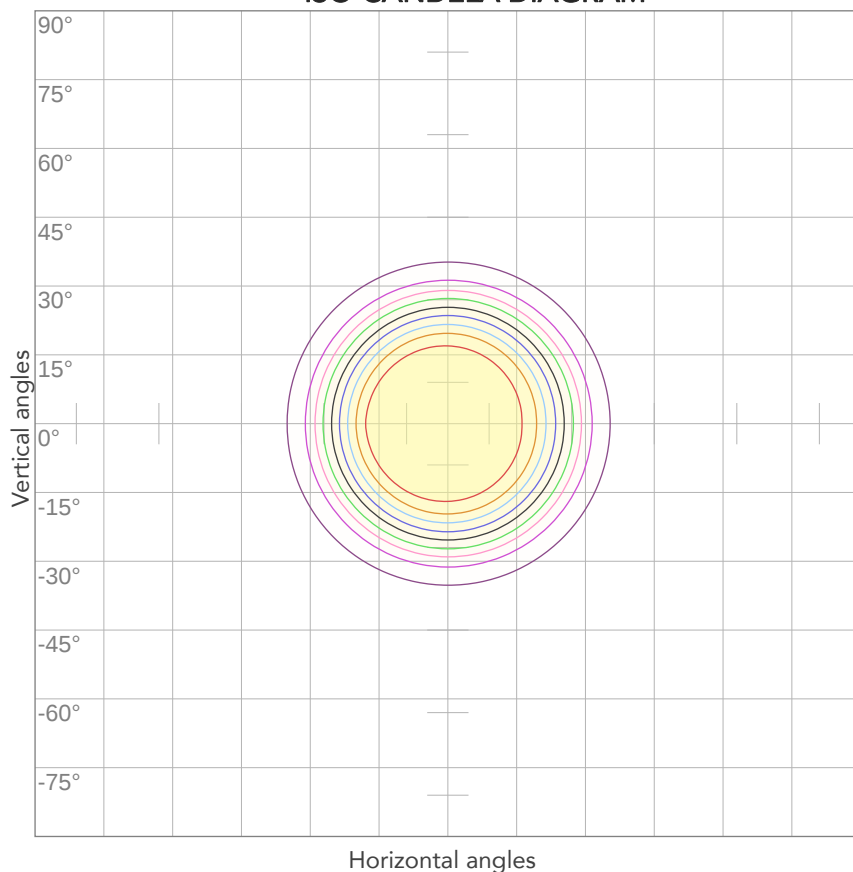
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,302A	32,9W	6lm/W
Power FC			
0,48			

ISO CANDELA DIAGRAM



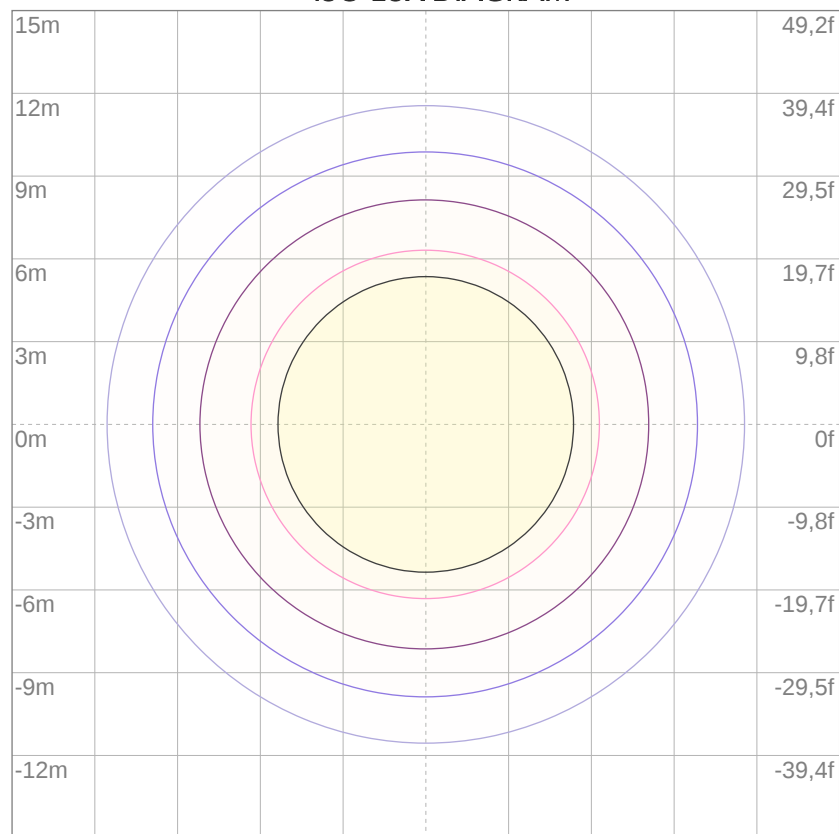
10%	23 cd
20%	46 cd
30%	68 cd
40%	91 cd
50%	114 cd
60%	137 cd
70%	160 cd
80%	183 cd

Conditions:

Number of c-planes: 2

Candela at center: 228 cd

ISO LUX DIAGRAM



3%	68,5m lx
5%	0,114 lx
10%	0,228 lx
30%	0,685 lx
50%	1,14 lx

Conditions:

Number of c-planes: 2

Lux at center: 2,28 lx

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



Total lumen output:

1751 lm

Peak candela output:

11636 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow

Target:

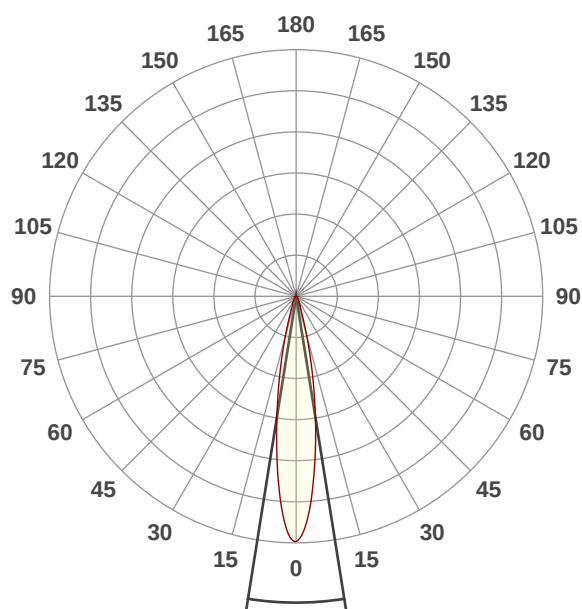
White

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:04:48

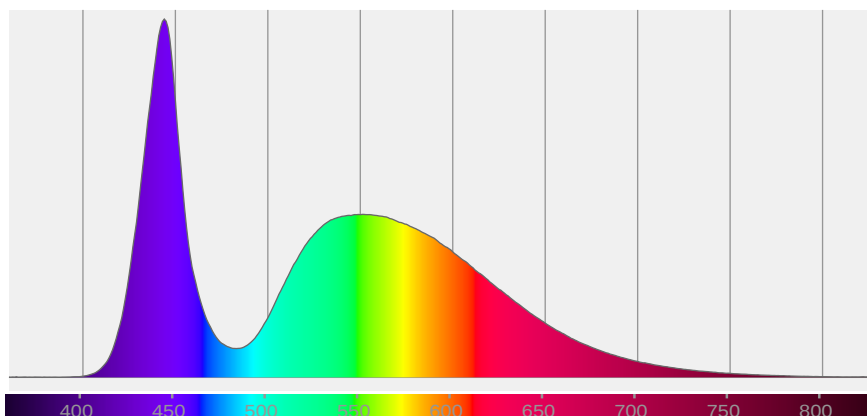


Beam angle 50%: 18,1°

Field angle 10%: 34,6°

Cut off angle 2.5%: 56,3°

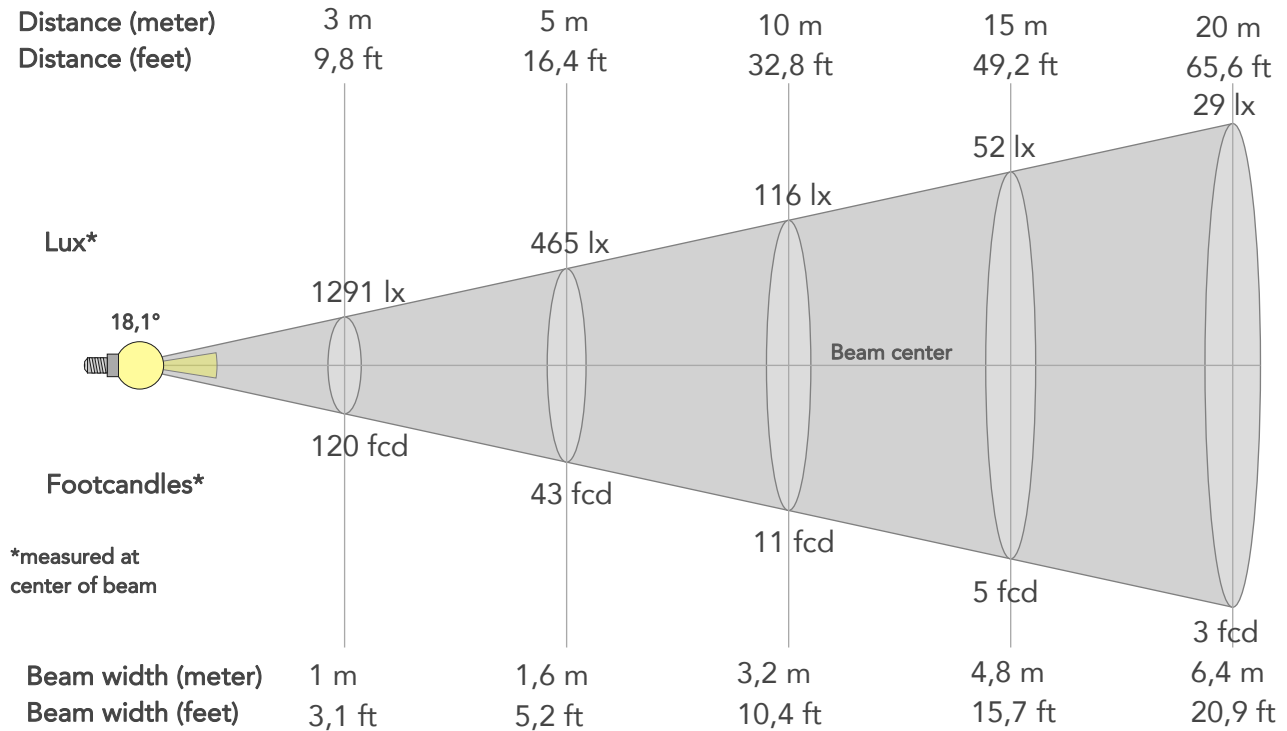
Spectra



BEAM DETAILS



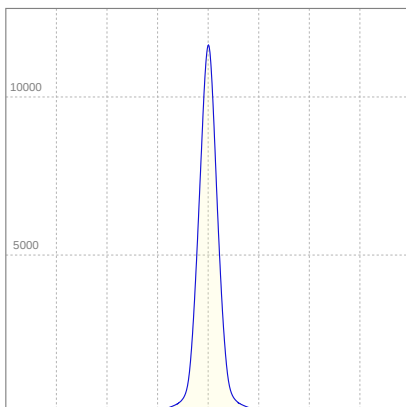
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,1°	34,6°	56,3°	98,9%	94,7%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	11617lx	2904lx	1291lx	726lx	465lx	207lx	116lx	52lx	29lx	19lx	13lx	7lx	5lx
Footcand.	1079fcd	270fcd	120fcd	67fcd	43fcd	19fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,6m	1m	1,3m	1,6m	2,4m	3,2m	4,8m	6,4m	8m	9,6m	12,7m	15,9m
Beam wid.	1,1ft	2,1ft	3,1ft	4,2ft	5,2ft	7,8ft	10,4ft	15,7ft	20,9ft	26,1ft	31,3ft	41,8ft	52,2ft

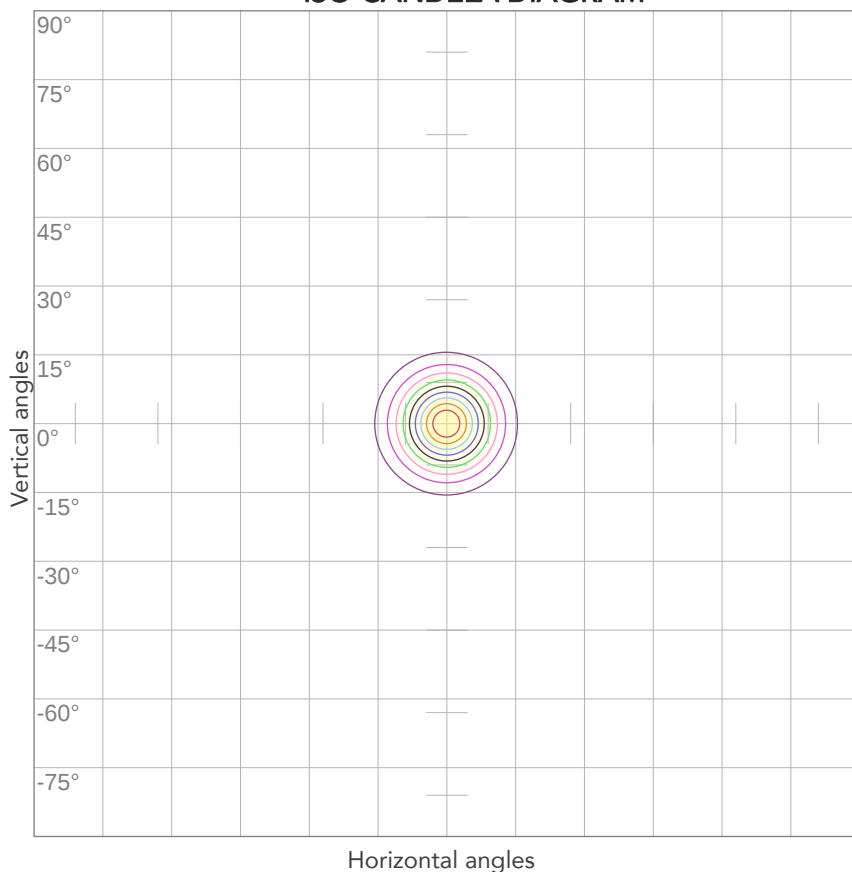
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,233A	48,2W	36lm/W
Power FC			
0,92			

ISO CANDELA DIAGRAM



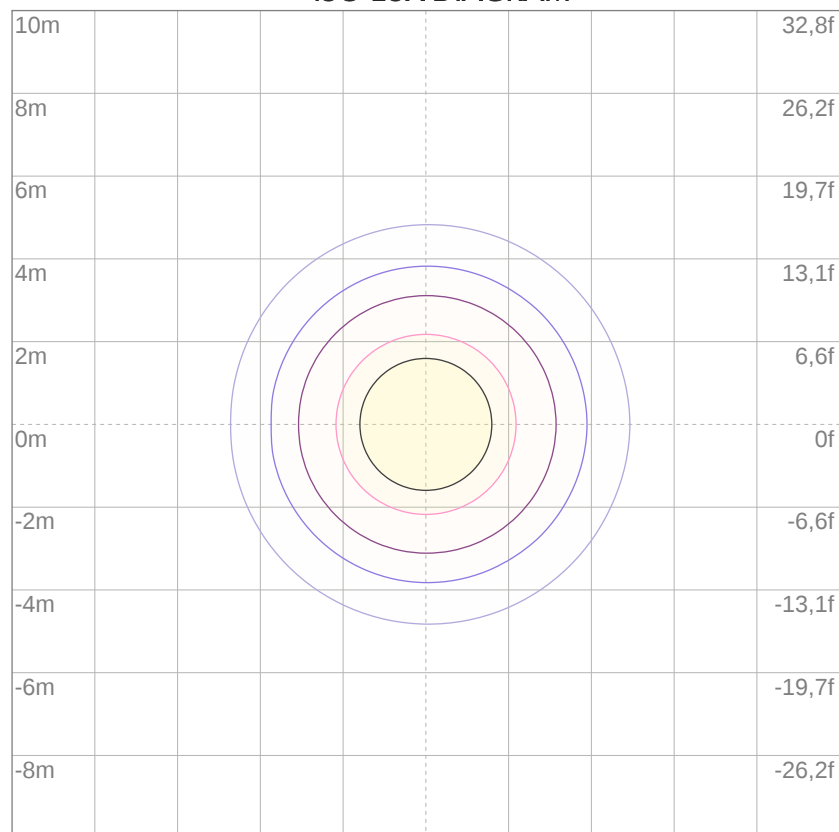
10%	1162 cd
20%	2323 cd
30%	3485 cd
40%	4647 cd
50%	5809 cd
60%	6970 cd
70%	8132 cd
80%	9294 cd

Conditions:

Number of c-planes: 2

Candela at center: 11617 cd

ISO LUX DIAGRAM



3%	3,49 lx
5%	5,81 lx
10%	11,6 lx
30%	34,9 lx
50%	58,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 116 lx

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



Total lumen output:

1571 lm

Peak candela output:

2833 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Medium

Target:

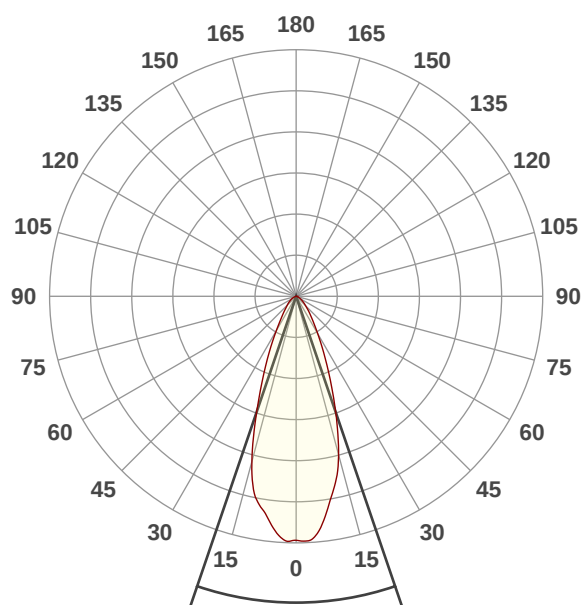
White

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:59:16

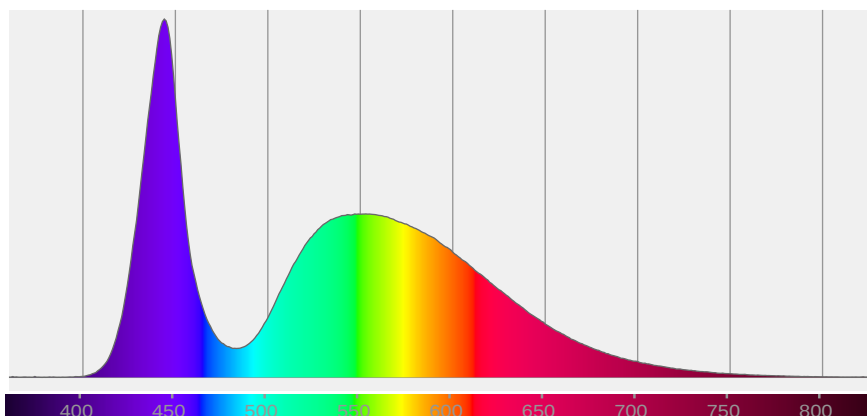


Beam angle 50%: 37,7°

Field angle 10%: 72°

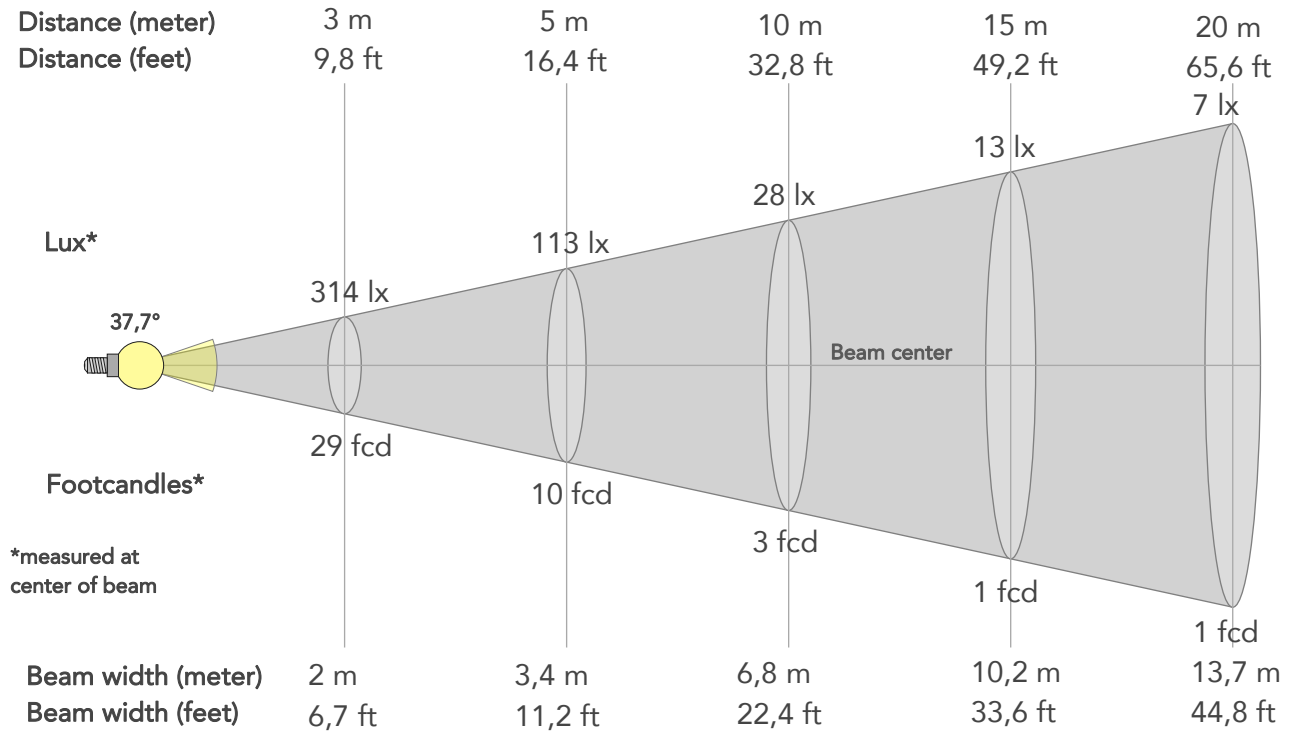
Cut off angle 2.5%: 114,2°

Spectra



BEAM DETAILS

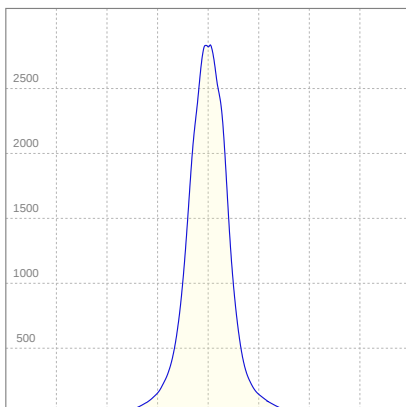
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,7°	72°	114,2°	97,1%	89,1%



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	2822lx	706lx	314lx	176lx	113lx	50lx	28lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	262fcd	66fcd	29fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2m	2,7m	3,4m	5,1m	6,8m	10,2m	13,7m	17,1m	20,5m	27,3m	34,1m
Beam wid.	2,3ft	4,5ft	6,7ft	8,9ft	11,2ft	16,8ft	22,4ft	33,6ft	44,8ft	56ft	67,2ft	89,6ft	112ft

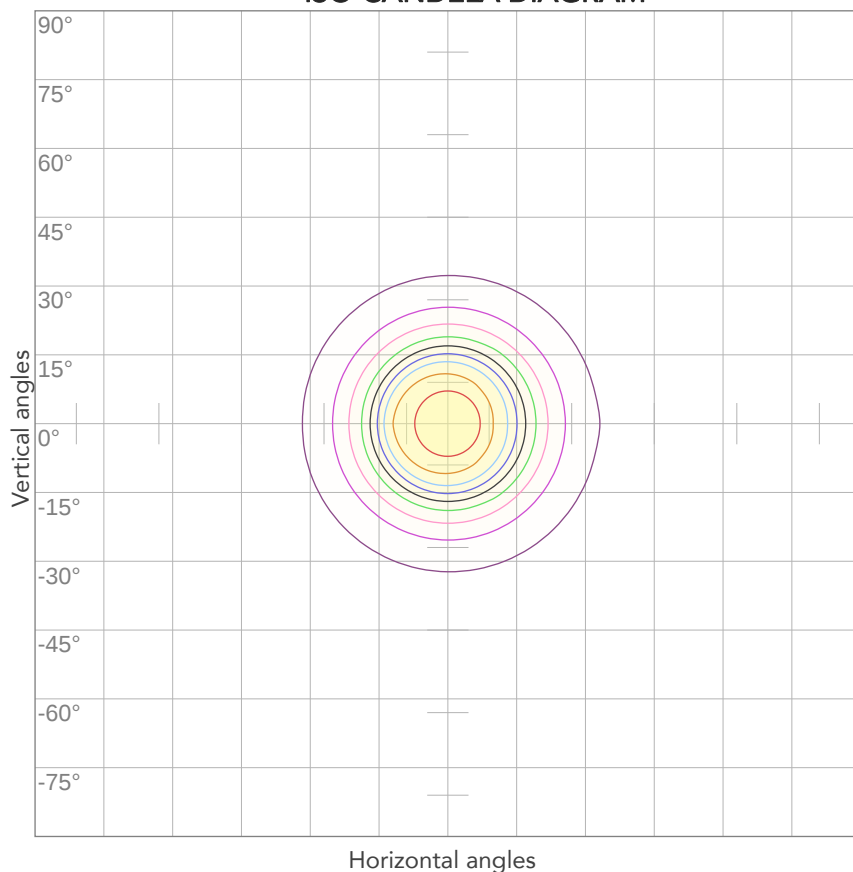
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,392A	43,5W	36lm/W
Power FC			
0,49			

ISO CANDELA DIAGRAM



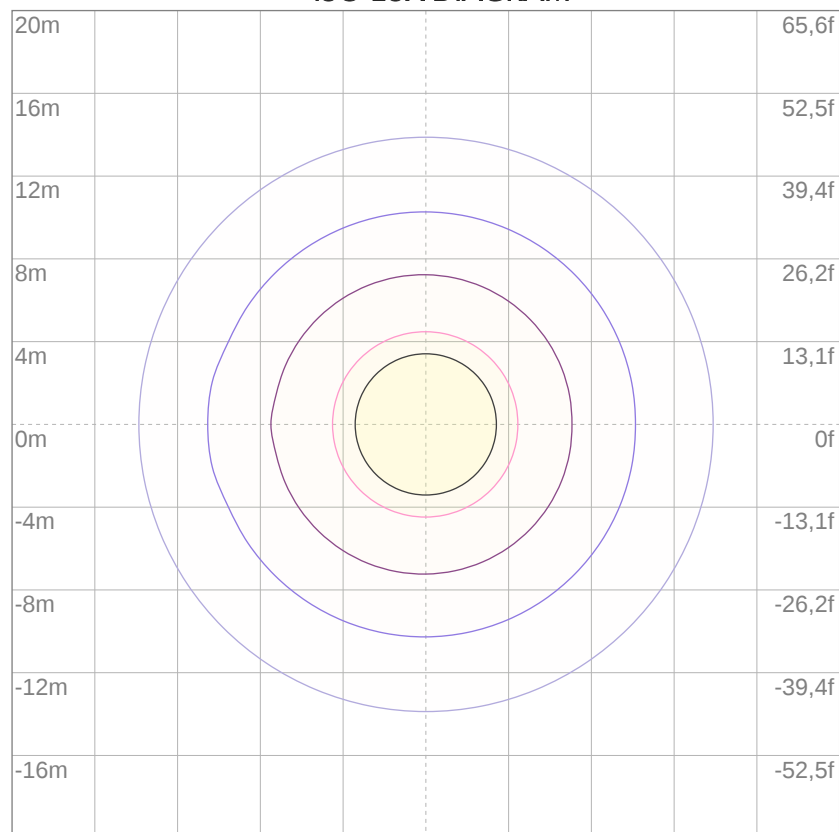
10%	282 cd
20%	564 cd
30%	847 cd
40%	1129 cd
50%	1411 cd
60%	1693 cd
70%	1975 cd
80%	2258 cd

Conditions:

Number of c-planes: 2

Candela at center: 2822 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 28,2 lx

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



Total lumen output:

1649 lm

Peak candela output:

2398 cd

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide

Target:

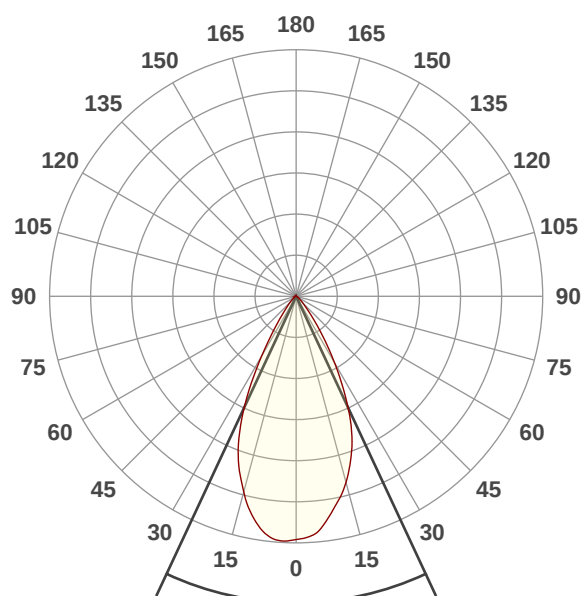
Blue

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:43:09

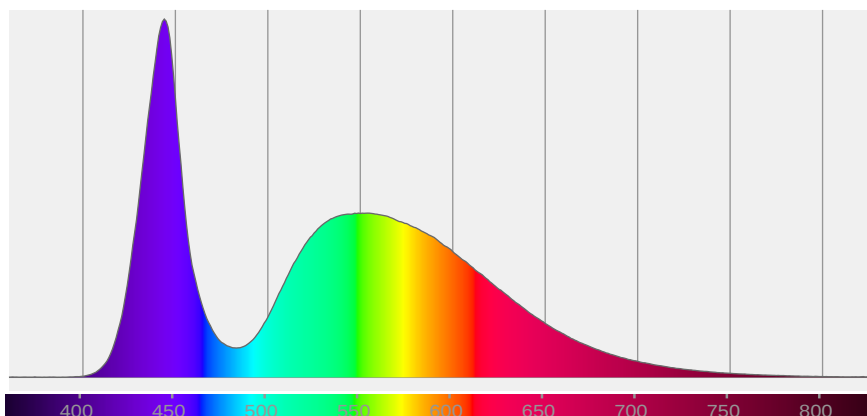


Beam angle 50%: 50°

Field angle 10%: 75,1°

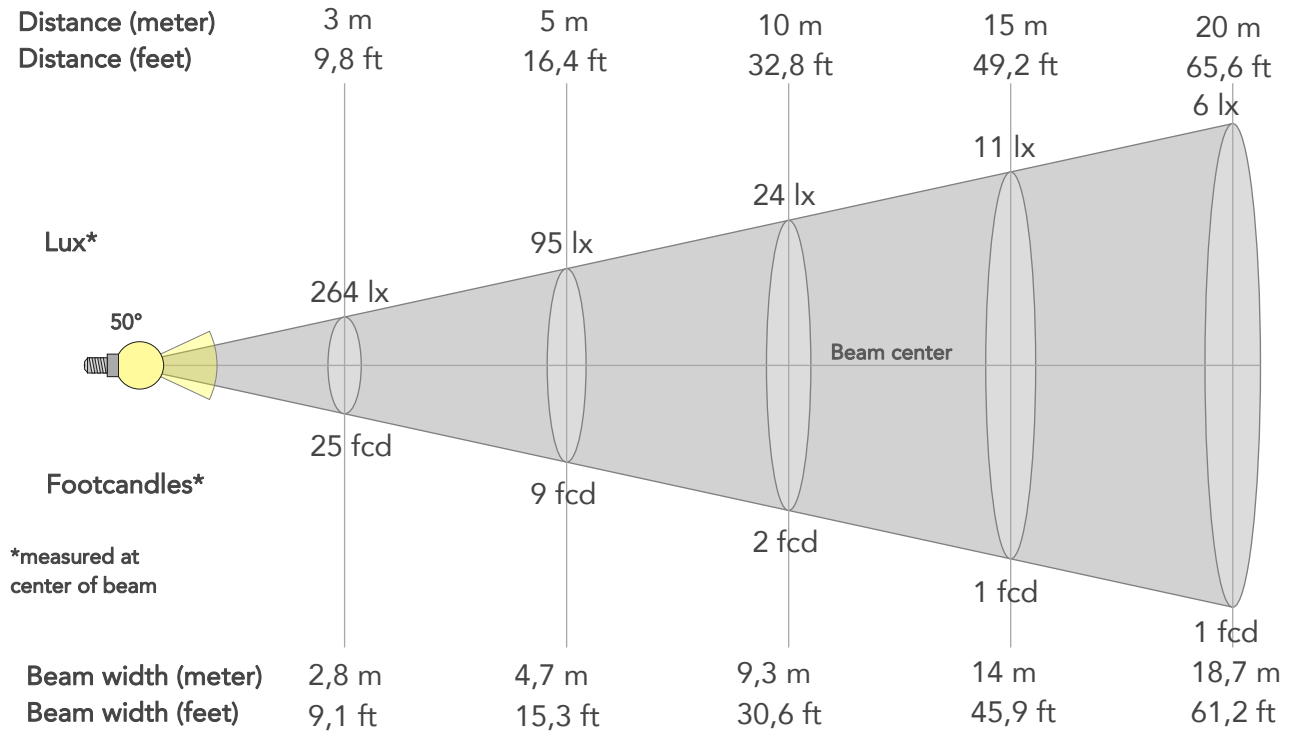
Cut off angle 2.5%: 97,9°

Spectra



BEAM DETAILS

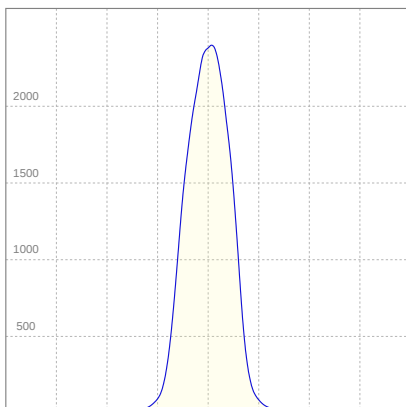
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50°	75,1°	97,9°	98,9%	95,3%



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	2380lx	595lx	264lx	149lx	95lx	42lx	24lx	11lx	6lx	4lx	3lx	1lx	1lx
Footcand.	221fcd	55fcd	25fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,7m	4,7m	7m	9,3m	14m	18,7m	23,3m	28m	37,3m	46,7m
Beam wid.	3,1ft	6,2ft	9,1ft	12,2ft	15,3ft	23ft	30,6ft	45,9ft	61,2ft	76,5ft	91,8ft	122,5ft	153,1ft

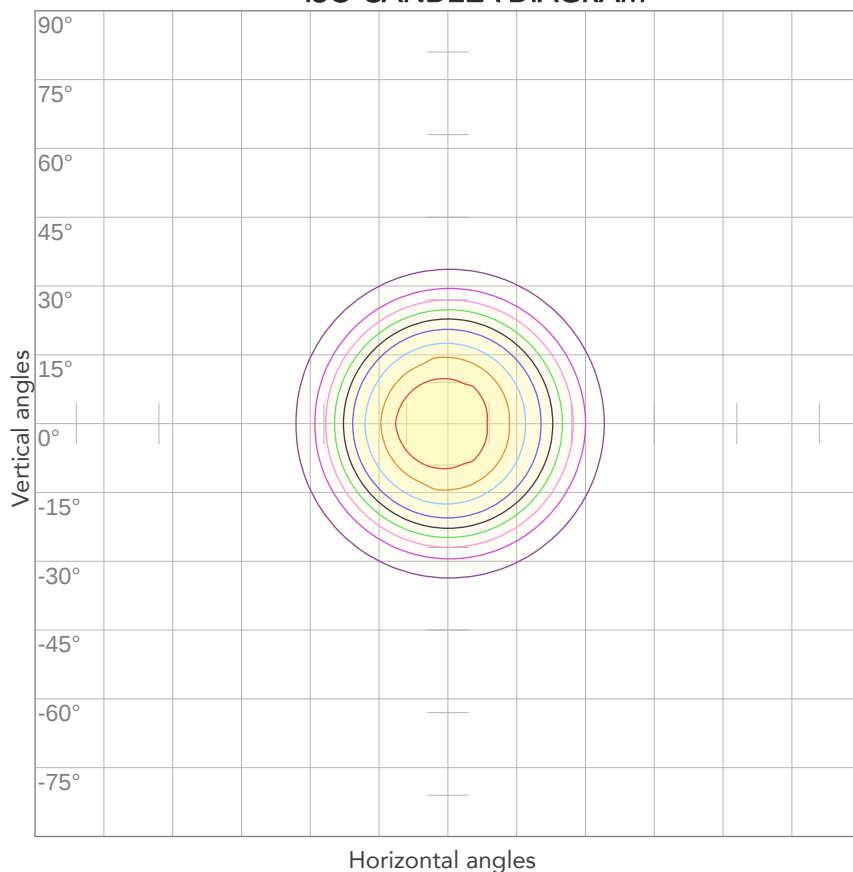
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,403A	43,5W	38lm/W
Power FC			
0,47			

ISO CANDELA DIAGRAM



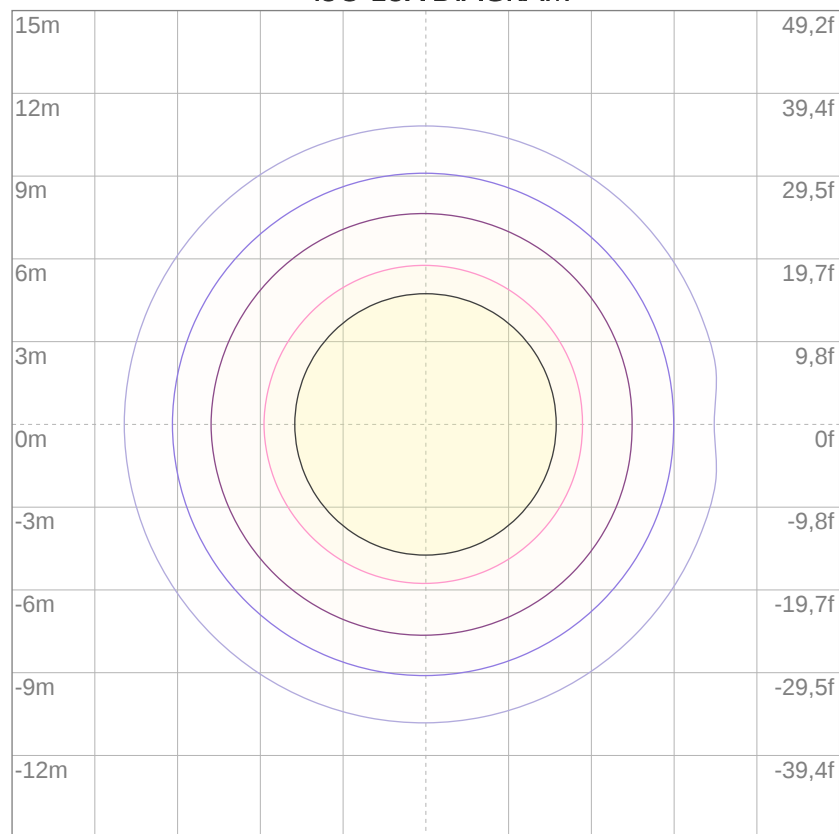
10%	238 cd
20%	476 cd
30%	714 cd
40%	952 cd
50%	1190 cd
60%	1428 cd
70%	1666 cd
80%	1904 cd

Conditions:

Number of c-planes: 2

Candela at center: 2380 cd

ISO LUX DIAGRAM



3%	0,714 lx
5%	1,19 lx
10%	2,38 lx
30%	7,14 lx
50%	11,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 23,8 lx

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



Total lumen output:

2417 lm

Peak candela output:

4467 cd

Light quality:

CRI: 46,1

Color temperature:

3011 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Medium

Target:

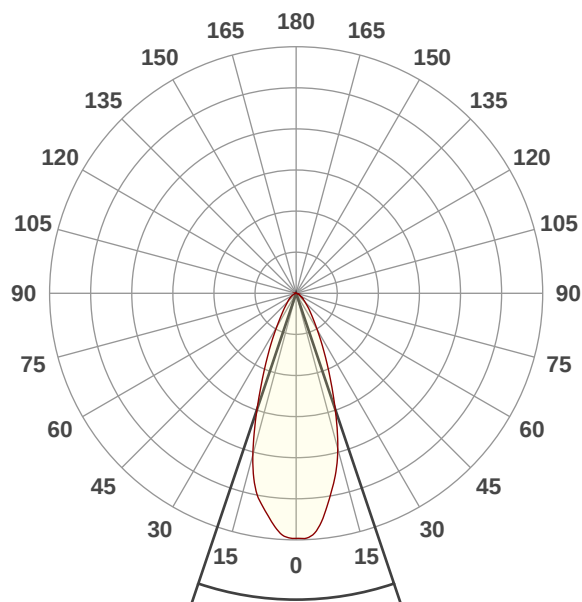
3000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:09:06

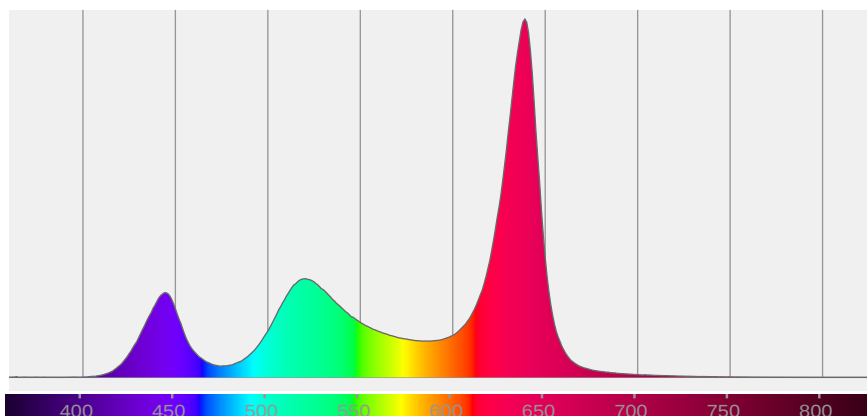


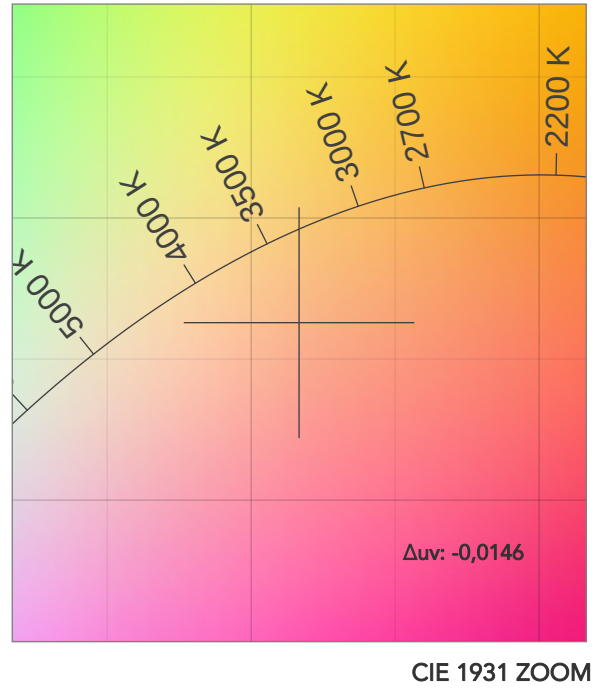
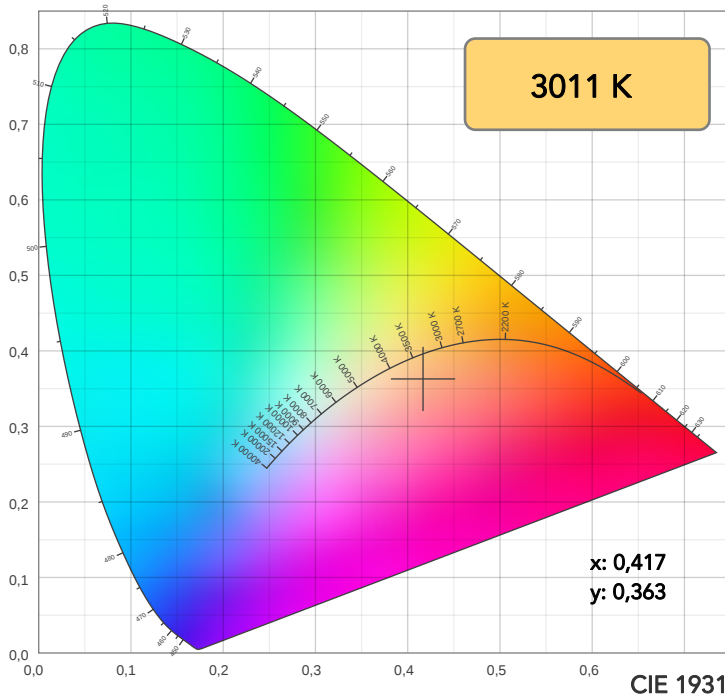
Beam angle 50%: 37,3°

Field angle 10%: 71,5°

Cut off angle 2.5%: 112,3°

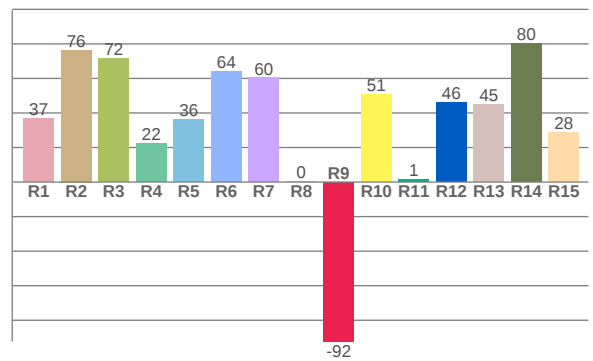
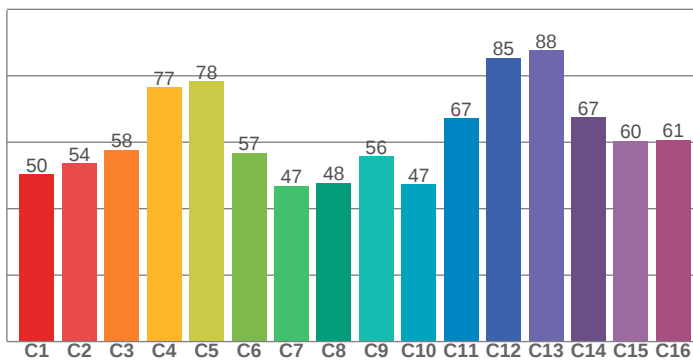
Spectra





TM30: 62,9

CRI: 46,1 (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
37,0	76,4	71,7	22,4	36,4	64,0	60,3	0,4	-92,4	50,9	1,3	45,9	45,0	80,3	28,5

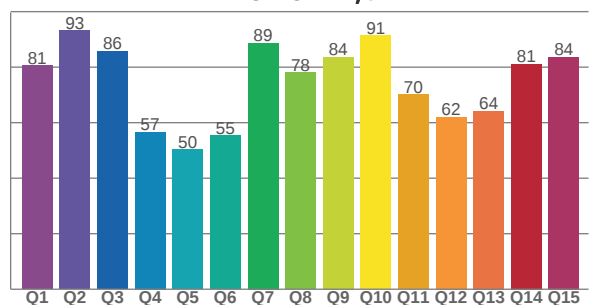
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
50,4	53,7	57,6	76,6	78,3	56,7	46,9	47,8	55,8	47,4	67,2	85,4	87,6	67,4	60,5	60,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80,5	93,2	85,7	56,7	50,2	55,3	88,7	78,0	83,7	91,4	70,1	62,0	64,1	81,1	83,7

CQS: 71,3



COLOR PARAMETERS

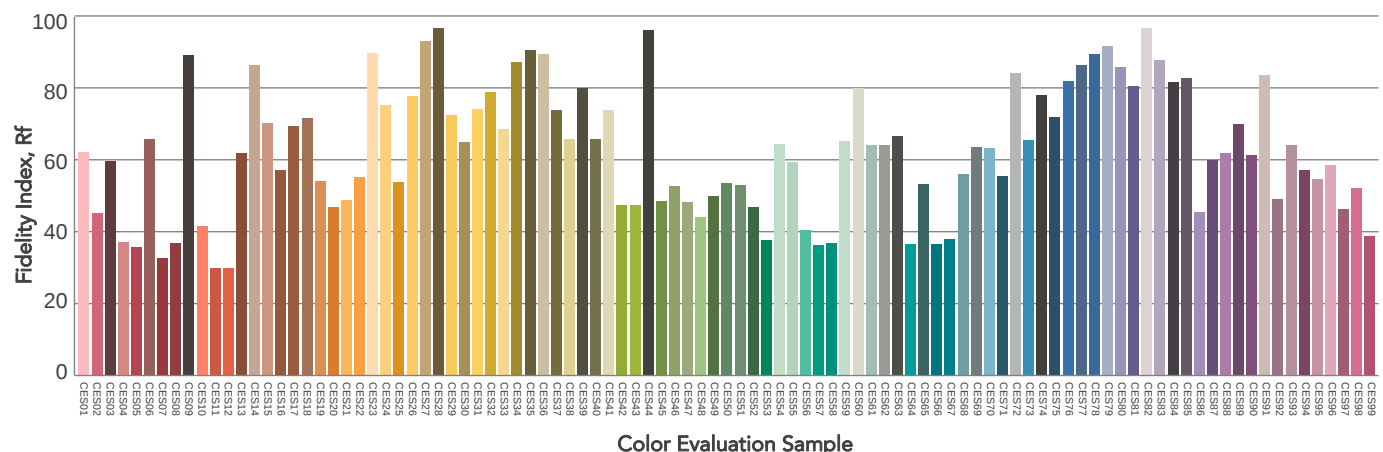
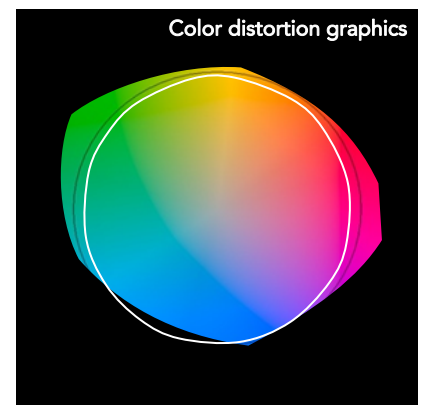
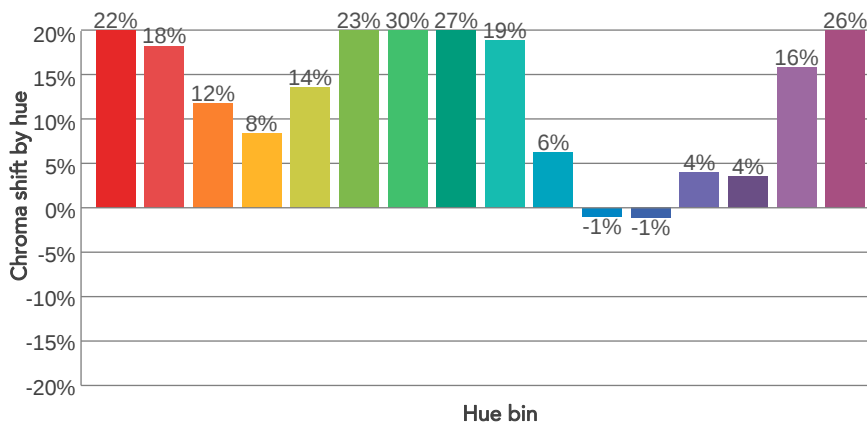
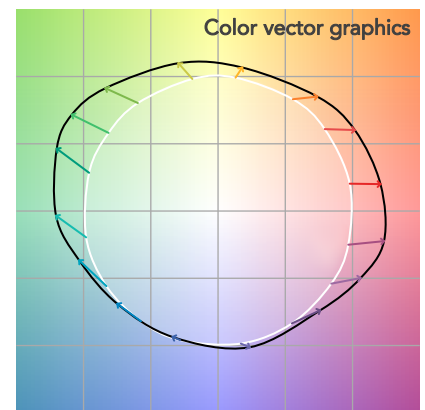
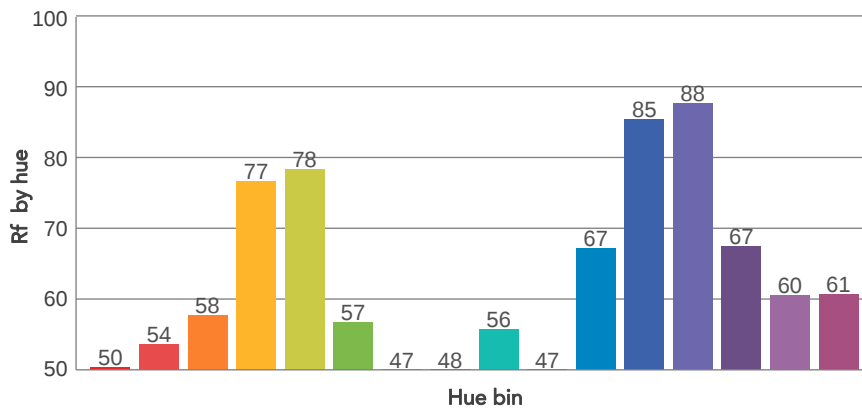
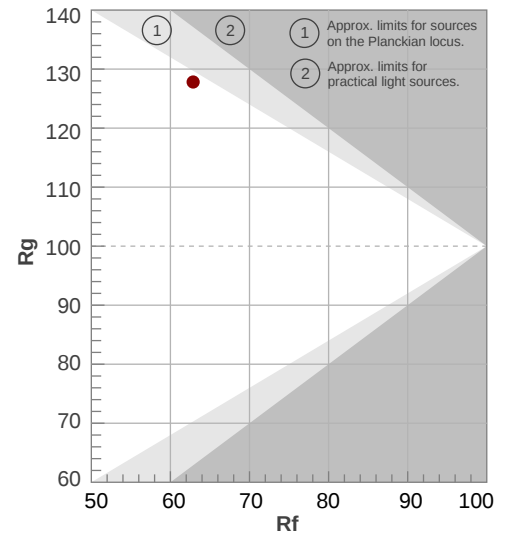
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3011 K	46,1	-92,4	62,9	127,8	71,3	30	0,417	0,363	-0,0146

TM30 DETAILS

Rf 62,9
Fidelity index Rf

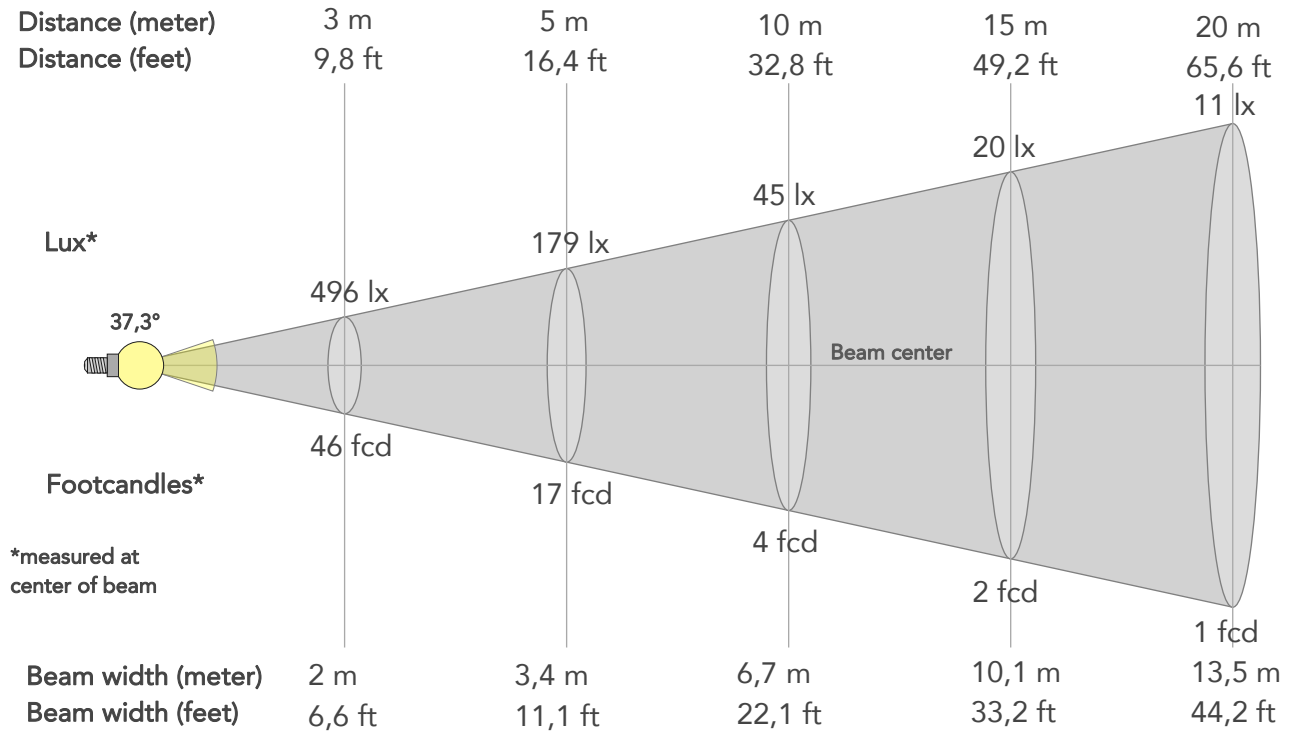
Rg 127,8
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	50	22%	-5%
2	54	18%	-13%
3	58	12%	-14%
4	77	8%	-3%
5	78	14%	8%
6	57	23%	14%
7	47	30%	4%
8	48	27%	-13%
9	56	19%	-20%
10	47	6%	-27%
11	67	-1%	-22%
12	85	-1%	-6%
13	88	4%	6%
14	67	4%	23%
15	60	16%	16%
16	61	26%	8%



BEAM DETAILS

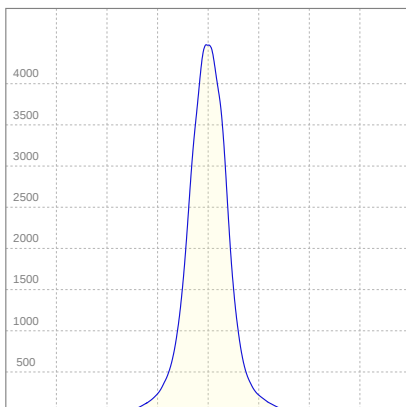
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,3°	71,5°	112,3°	97,5%	89,7%



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	4466lx	1116lx	496lx	279lx	179lx	79lx	45lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	415fcd	104fcd	46fcd	26fcd	17fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,7m	3,4m	5,1m	6,7m	10,1m	13,5m	16,9m	20,2m	27m	33,7m
Beam wid.	2,2ft	4,4ft	6,6ft	8,8ft	11,1ft	16,6ft	22,1ft	33,2ft	44,2ft	55,3ft	66,3ft	88,4ft	110,6ft

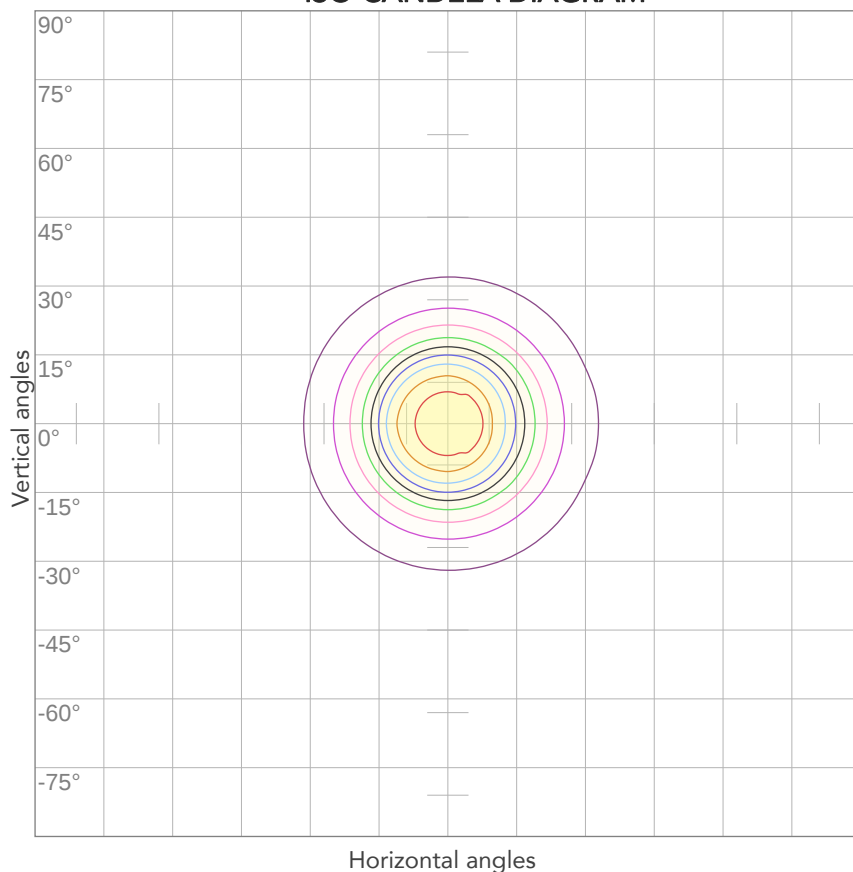
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,432A	91,7W	26lm/W

ISO CANDELA DIAGRAM



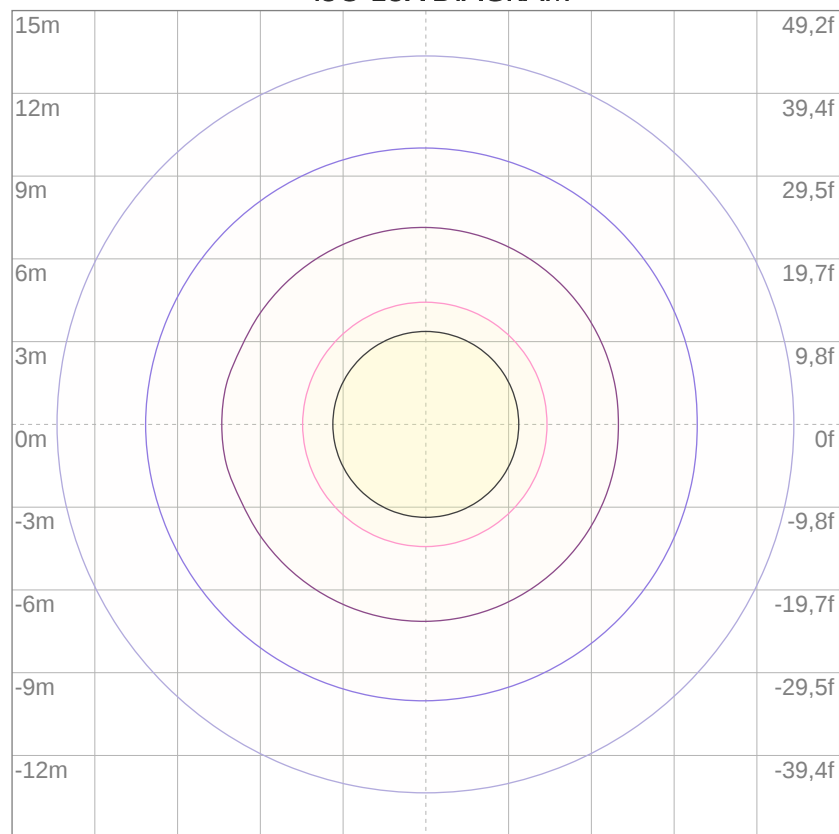
10%	447 cd
20%	893 cd
30%	1340 cd
40%	1786 cd
50%	2233 cd
60%	2680 cd
70%	3126 cd
80%	3573 cd

Conditions:

Number of c-planes: 2

Candela at center: 4466 cd

ISO LUX DIAGRAM



3%	1,34 lx
5%	2,23 lx
10%	4,47 lx
30%	13,4 lx
50%	22,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 44,7 lx

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



Total lumen output:

2663 lm

Peak candela output:

17727 cd

Light quality:

CRI: 45,6

Color temperature:

2992 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow

Target:

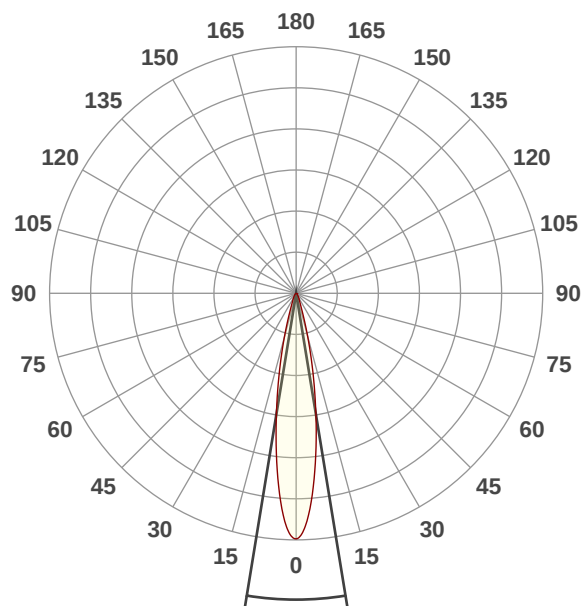
3000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:11:01

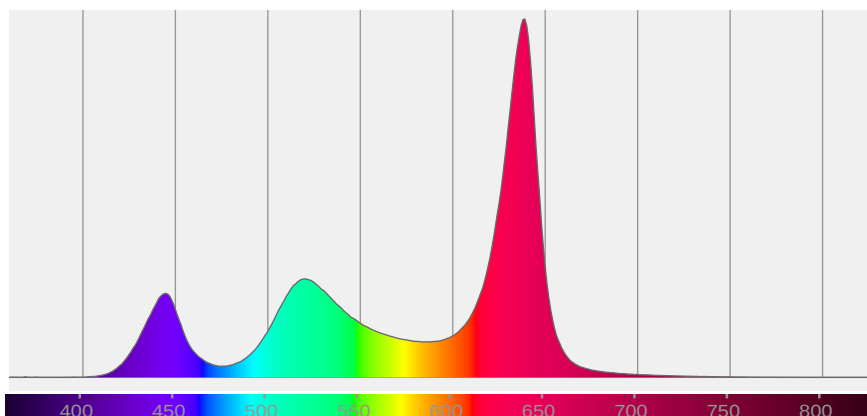


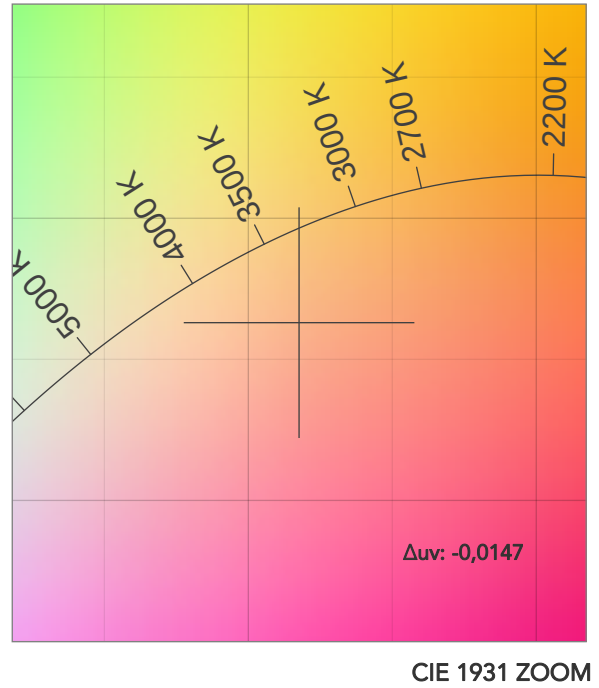
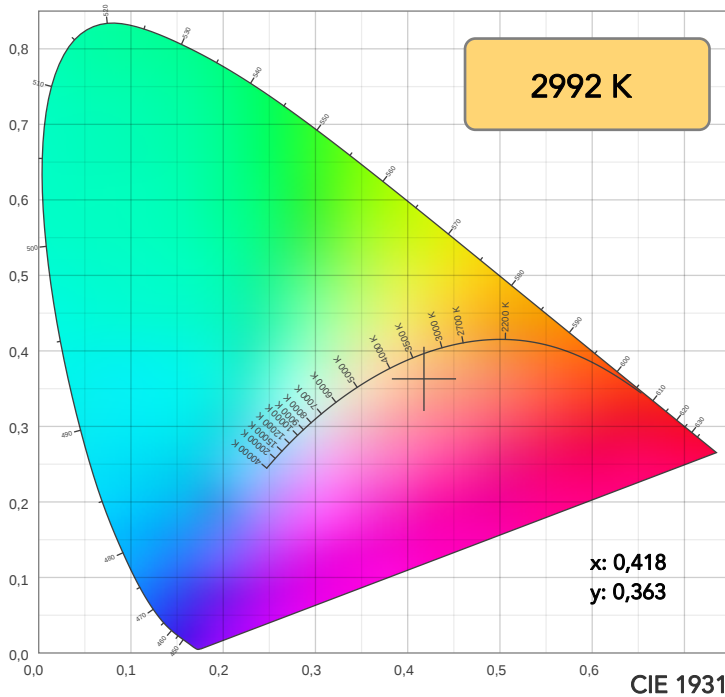
Beam angle 50%: 18,5°

Field angle 10%: 35,3°

Cut off angle 2.5%: 55,4°

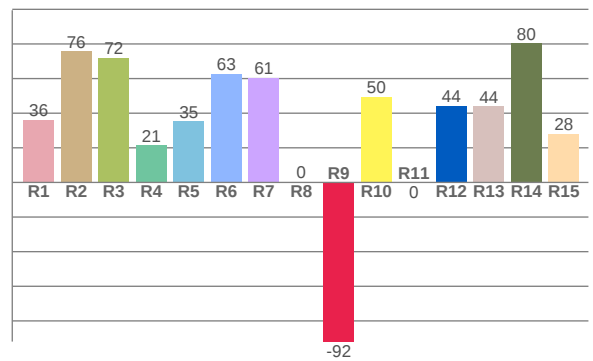
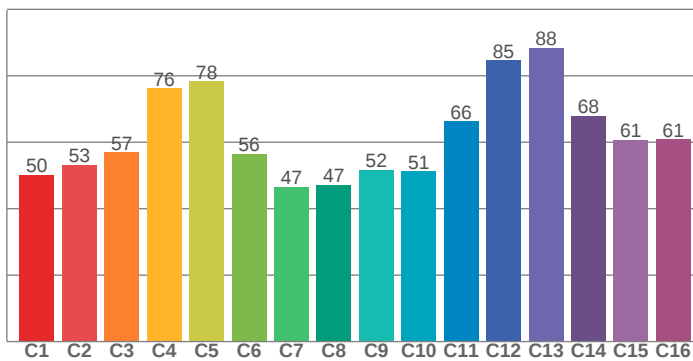
Spectra





TM30: 62,6

CRI: 45,6 (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
36,1	75,8	72,1	21,4	35,4	62,8	60,5	0,4	-91,9	49,6	-0,2	44,3	44,1	80,4	28,1

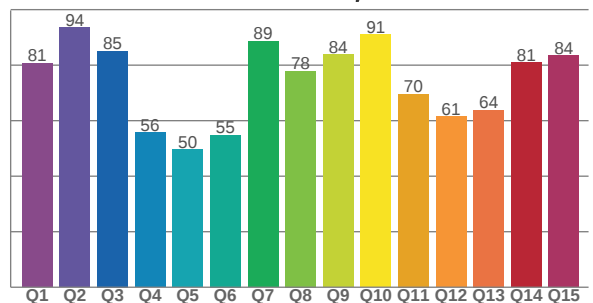
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
50,3	53,3	56,9	76,3	78,4	56,4	46,6	47,1	51,7	51,2	66,3	84,6	88,4	68,0	60,7	60,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80,7	93,5	85,1	55,8	49,6	54,9	88,6	77,8	83,8	91,0	69,5	61,5	63,8	80,9	83,5

CQS: 70,9



COLOR PARAMETERS

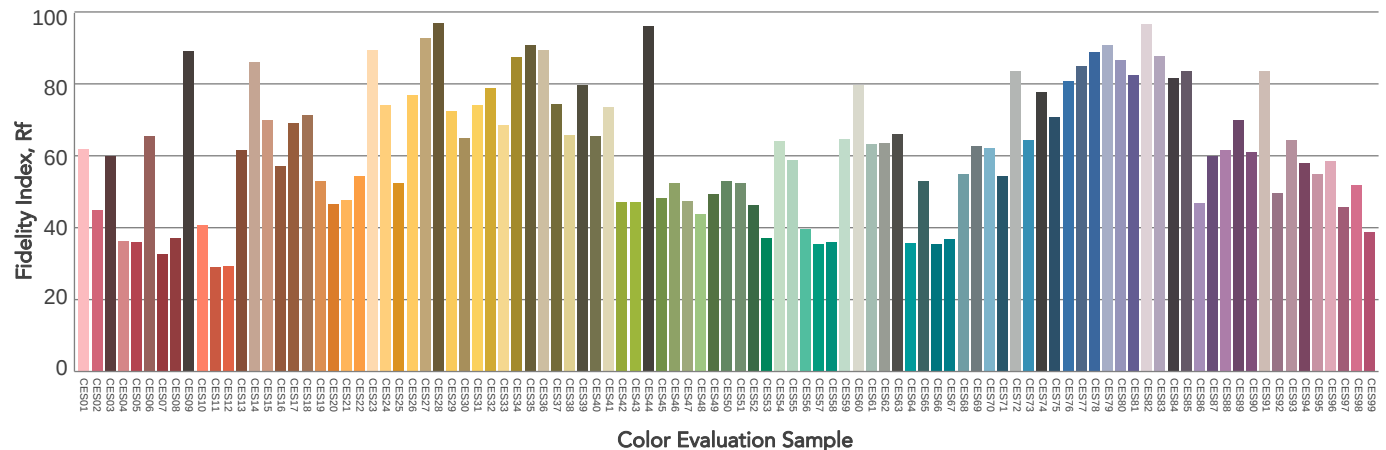
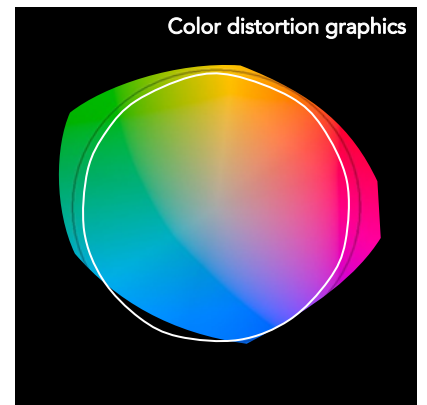
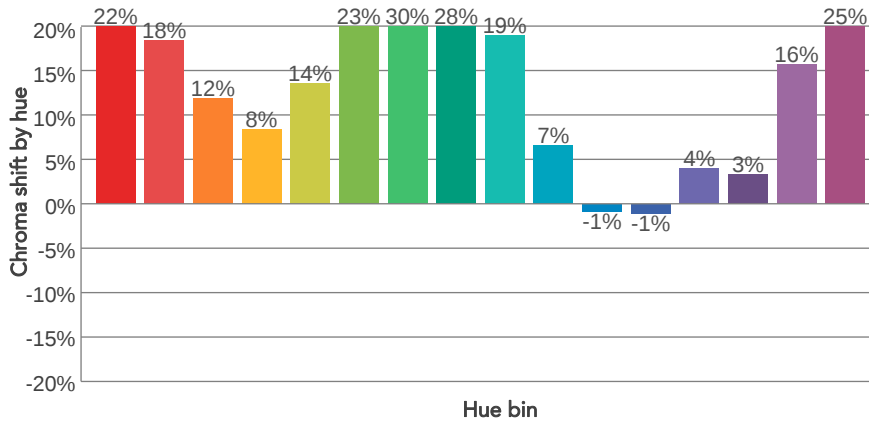
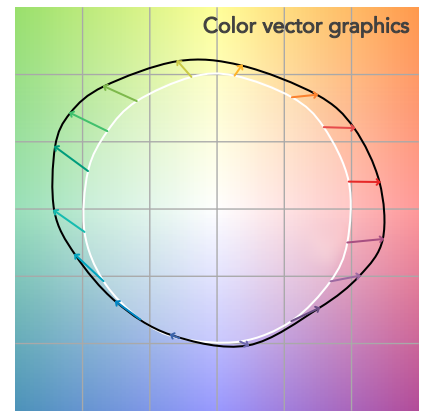
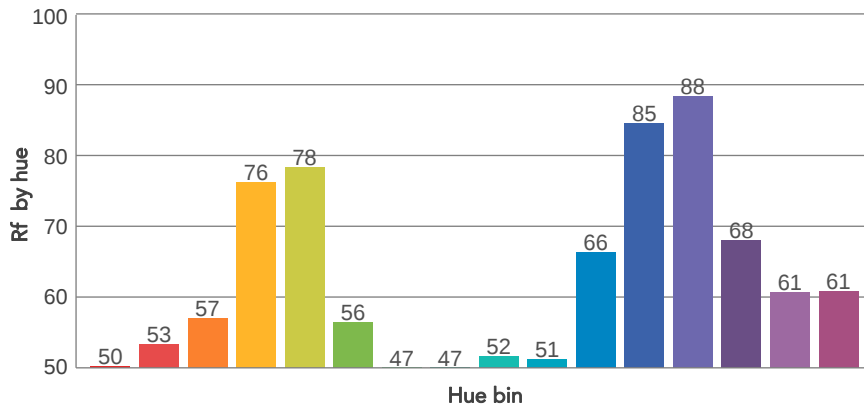
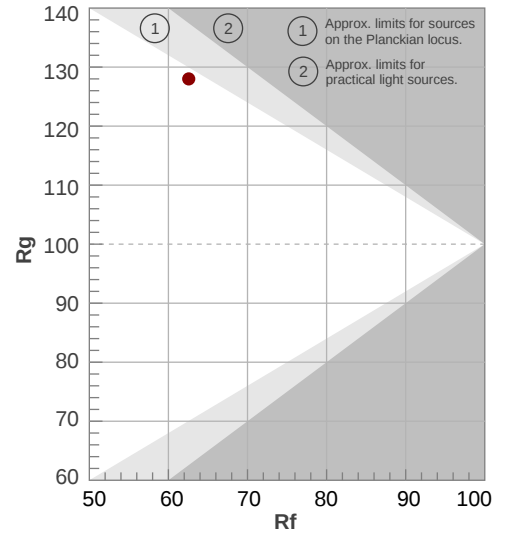
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2992 K	45,6	-91,9	62,6	128,0	70,9	30	0,418	0,363	-0,0147

TM30 DETAILS

Rf 62,6
Fidelity index Rf

Rg 128,0
Gammut index

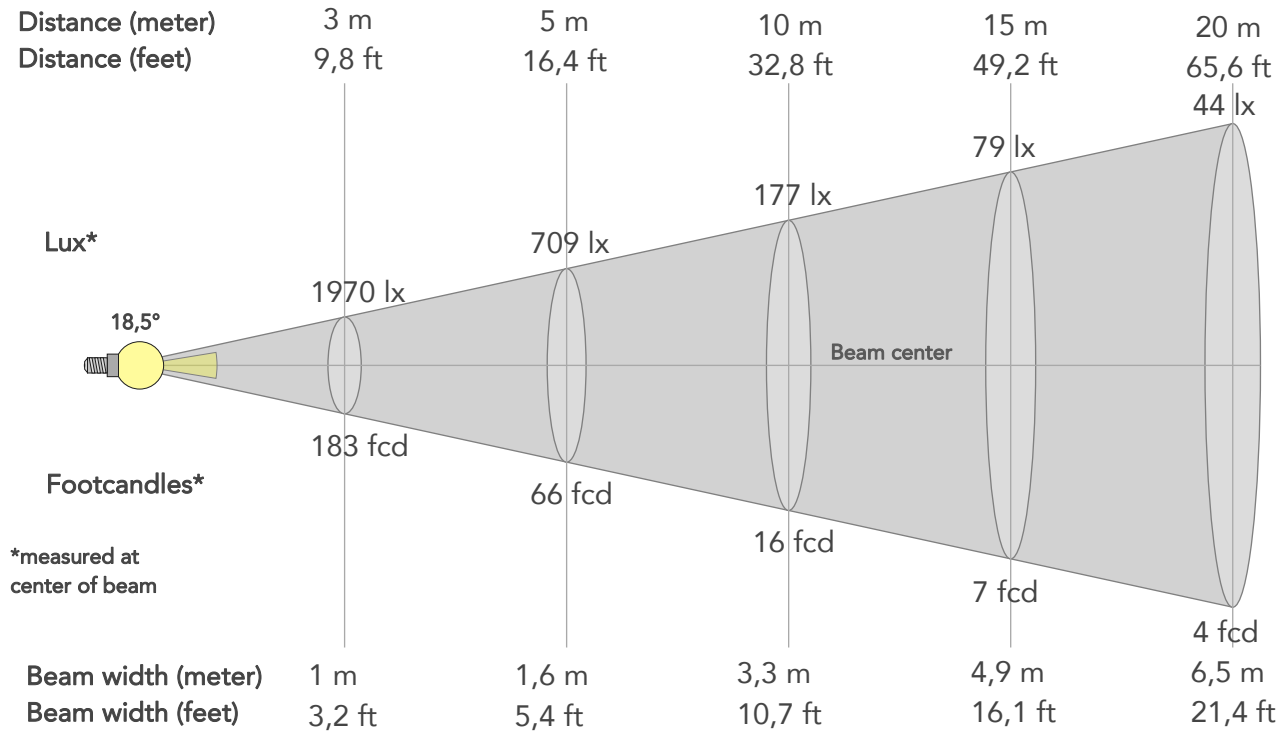
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	50	22%	-5%
2	53	18%	-13%
3	57	12%	-14%
4	76	8%	-4%
5	78	14%	8%
6	56	23%	14%
7	47	30%	4%
8	47	28%	-13%
9	52	19%	-20%
10	51	7%	-28%
11	66	-1%	-22%
12	85	-1%	-7%
13	88	4%	5%
14	68	3%	22%
15	61	16%	16%
16	61	25%	8%



BEAM DETAILS



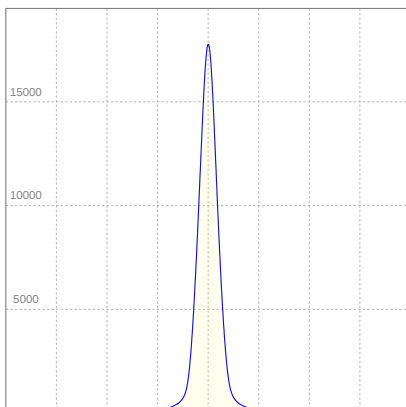
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,5°	35,3°	55,4°	99,6%	96,7%



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	17726lx	4431lx	1970lx	1108lx	709lx	315lx	177lx	79lx	44lx	28lx	20lx	11lx	7lx
Footcand.	1647fcd	412fcd	183fcd	103fcd	66fcd	29fcd	16fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,6m	2,4m	3,3m	4,9m	6,5m	8,2m	9,8m	13,1m	16,3m
Beam wid.	1,1ft	2,2ft	3,2ft	4,3ft	5,4ft	8ft	10,7ft	16,1ft	21,4ft	26,8ft	32,1ft	42,8ft	53,6ft

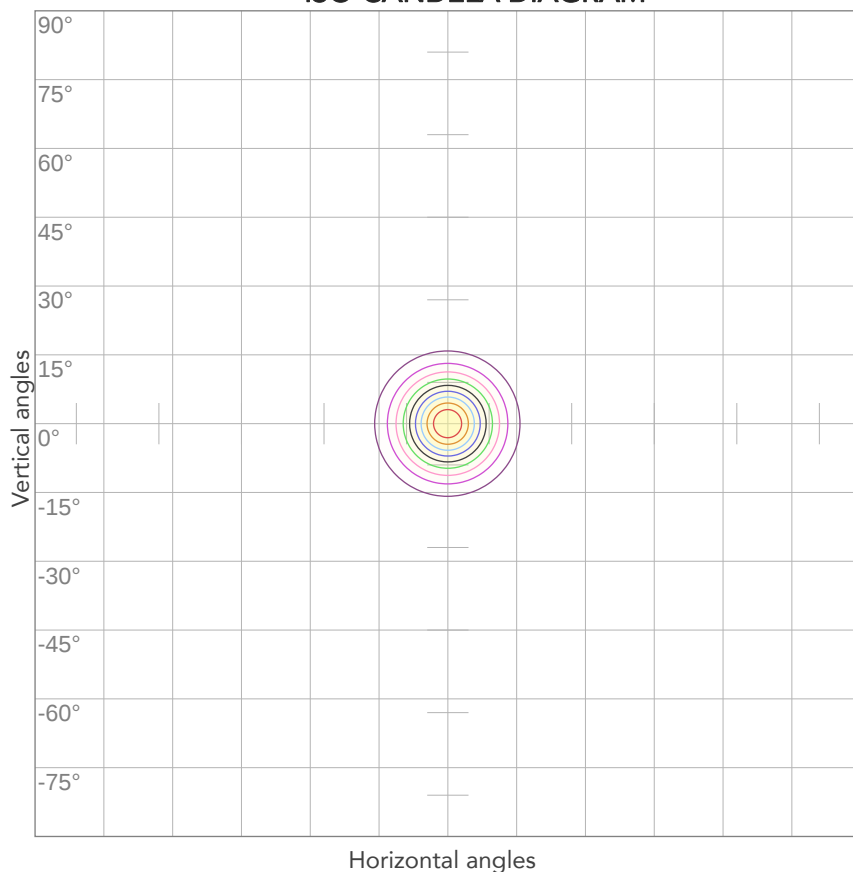
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,437A	92,2W	29lm/W

ISO CANDELA DIAGRAM



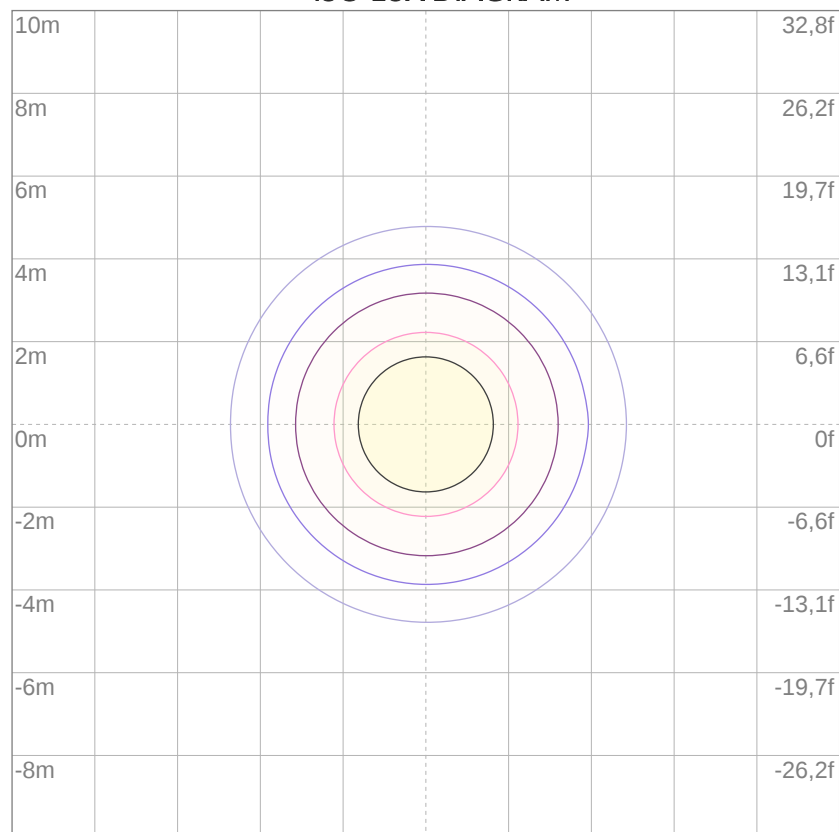
10%	1773 cd
20%	3545 cd
30%	5318 cd
40%	7090 cd
50%	8863 cd
60%	10635 cd
70%	12408 cd
80%	14181 cd

Conditions:

Number of c-planes: 2

Candela at center: 17726 cd

ISO LUX DIAGRAM



3%	5,32 lx
5%	8,86 lx
10%	17,7 lx
30%	53,2 lx
50%	88,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 177 lx

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



Total lumen output:

2563 lm

Peak candela output:

3681 cd

Light quality:

CRI: 45,8

Color temperature:

3031 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide

Target:

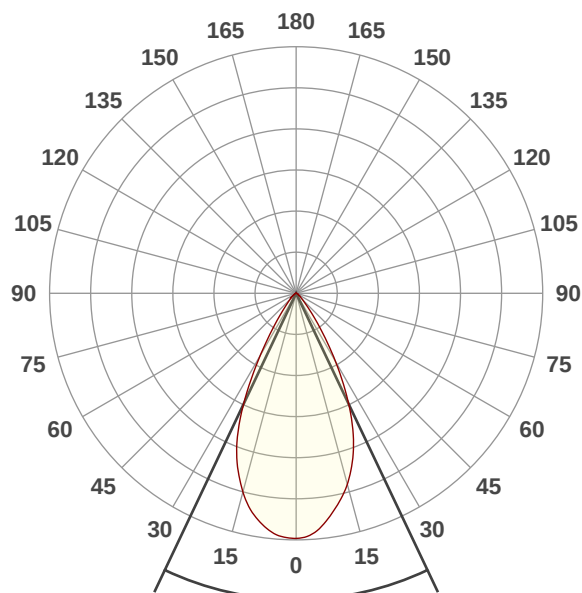
3000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:30:18

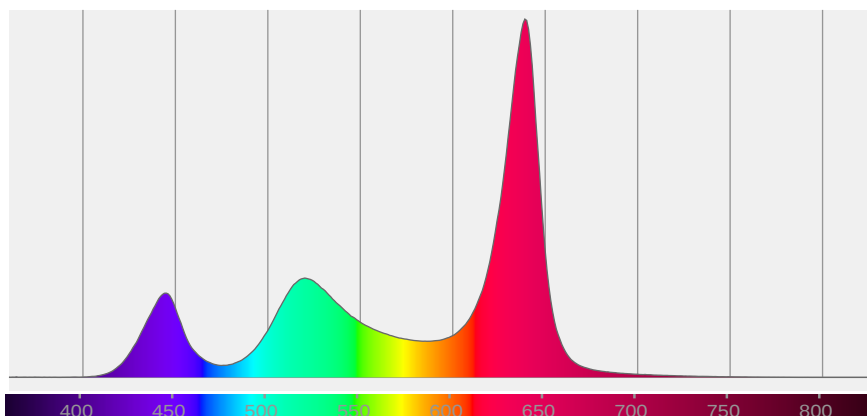


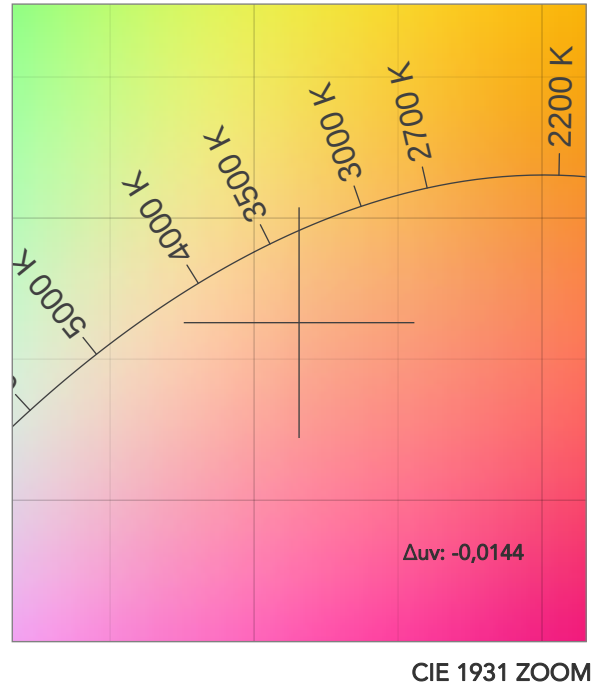
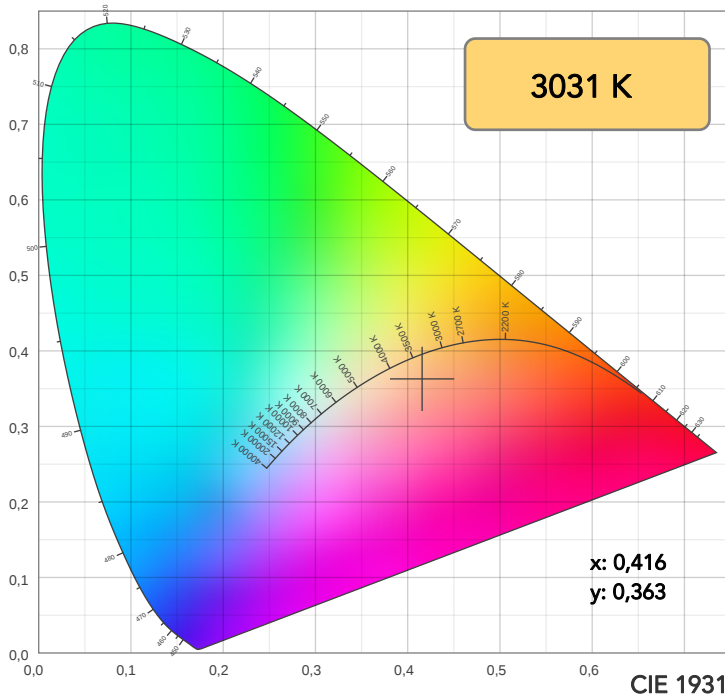
Beam angle 50%: 50,8°

Field angle 10%: 75,3°

Cut off angle 2.5%: 97,1°

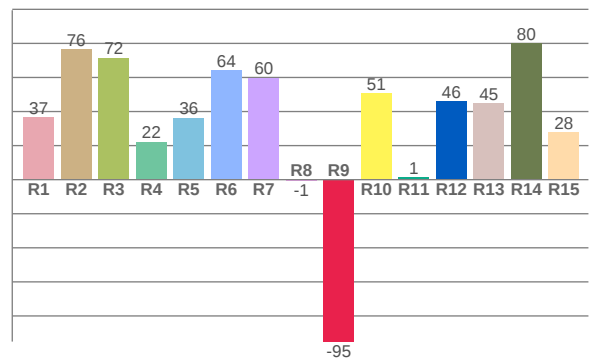
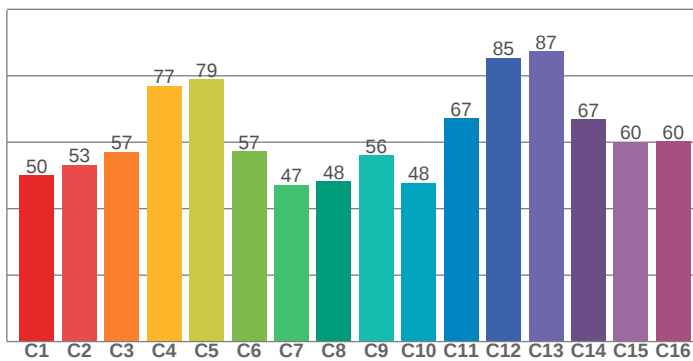
Spectra





TM30: 62,9

CRI: 45,8 (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
36,7	76,3	71,6	22,2	36,3	64,2	59,8	-0,7	-95,1	50,6	1,3	46,0	44,8	80,2	27,8

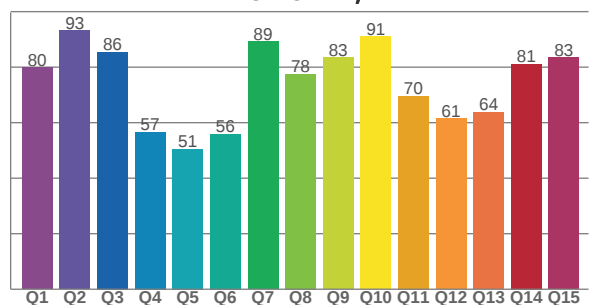
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
50,0	53,3	57,2	76,9	78,9	57,2	47,2	48,3	56,1	47,7	67,2	85,4	87,4	66,9	60,1	60,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,8	93,1	85,5	56,6	50,5	55,9	89,1	77,5	83,5	91,1	69,7	61,5	63,7	81,1	83,4

CQS: 71,2



COLOR PARAMETERS

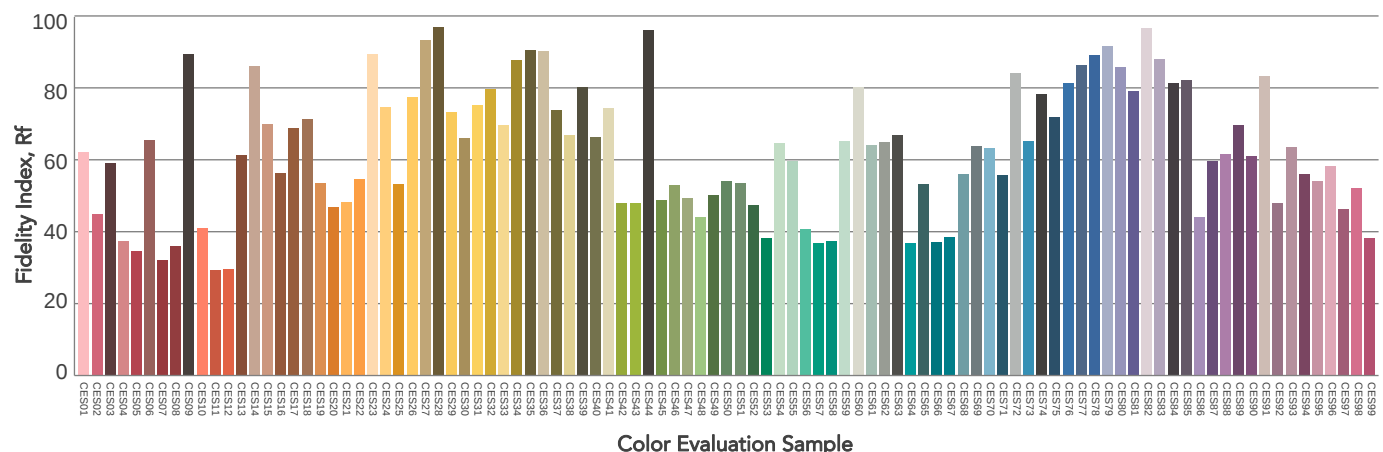
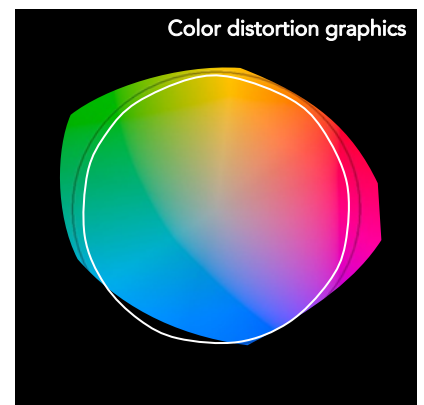
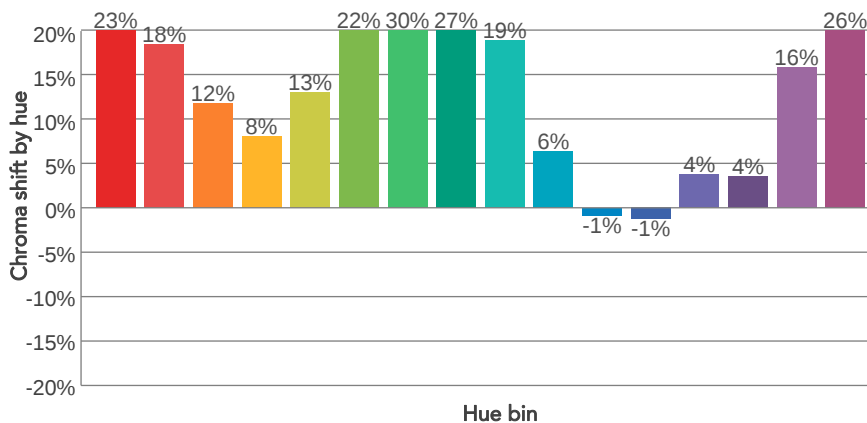
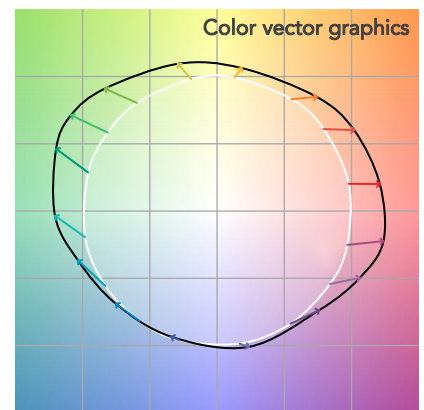
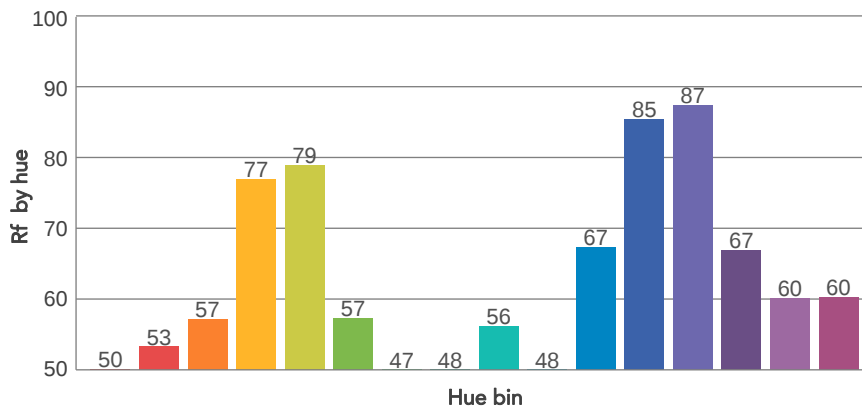
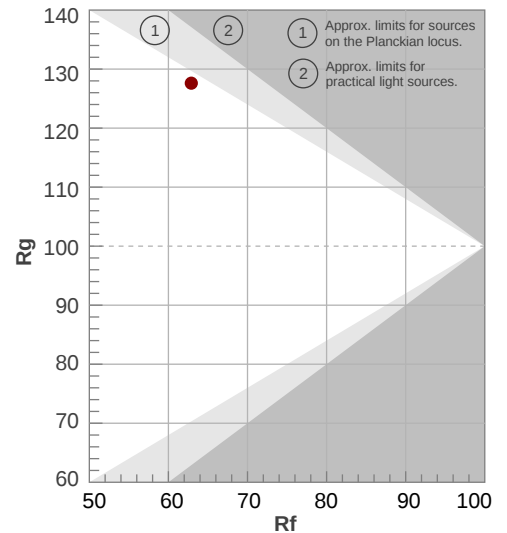
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3031 K	45,8	-95,1	62,9	127,6	71,2	31	0,416	0,363	-0,0144

TM30 DETAILS

Rf 62,9
Fidelity index Rf

Rg 127,6
Gammut index

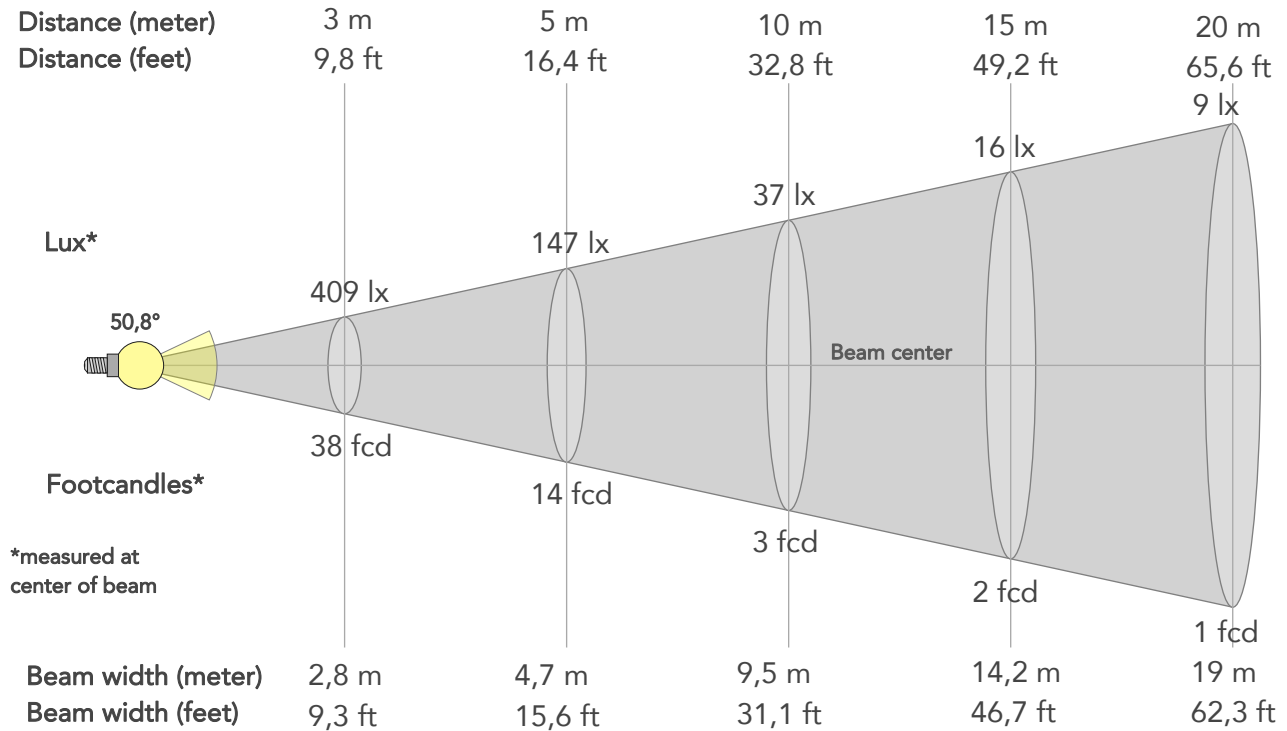
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	50	23%	-5%
2	53	18%	-13%
3	57	12%	-14%
4	77	8%	-4%
5	79	13%	8%
6	57	22%	14%
7	47	30%	4%
8	48	27%	-13%
9	56	19%	-20%
10	48	6%	-27%
11	67	-1%	-22%
12	85	-1%	-6%
13	87	4%	6%
14	67	4%	23%
15	60	16%	16%
16	60	26%	8%



BEAM DETAILS



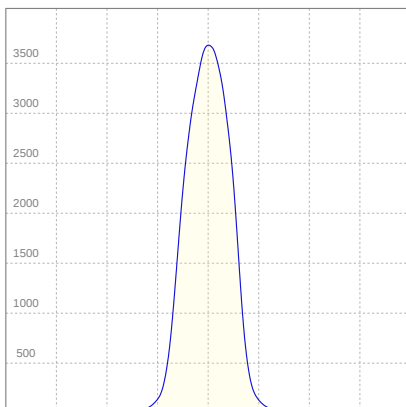
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50,8°	75,3°	97,1°	99,3%	95,9%



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	3680lx	920lx	409lx	230lx	147lx	65lx	37lx	16lx	9lx	6lx	4lx	2lx	1lx
Footcand.	342fcd	85fcd	38fcd	21fcd	14fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,8m	4,7m	7,1m	9,5m	14,2m	19m	23,7m	28,5m	38m	47,4m
Beam wid.	3,1ft	6,3ft	9,3ft	12,4ft	15,6ft	23,3ft	31,1ft	46,7ft	62,3ft	77,8ft	93,4ft	124,5ft	155,6ft

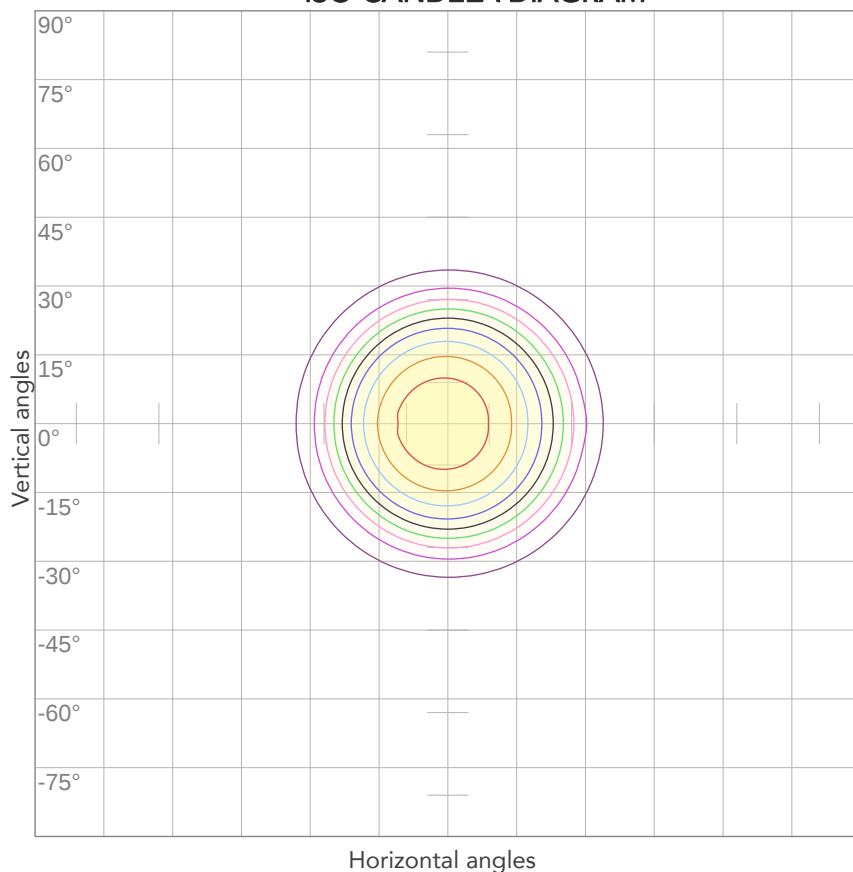
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,432A	92,0W	28lm/W

ISO CANDELA DIAGRAM



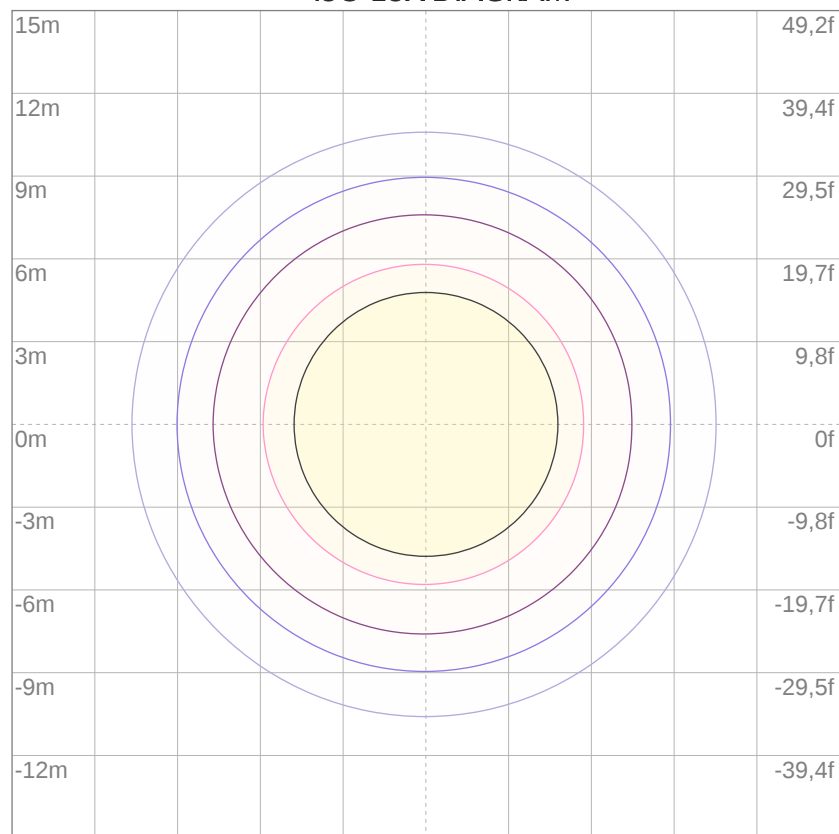
10%	368 cd
20%	736 cd
30%	1104 cd
40%	1472 cd
50%	1840 cd
60%	2208 cd
70%	2576 cd
80%	2944 cd

Conditions:

Number of c-planes: 2

Candela at center: 3680 cd

ISO LUX DIAGRAM



3%	1,10 lx
5%	1,84 lx
10%	3,68 lx
30%	11,0 lx
50%	18,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 36,8 lx

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



Total lumen output:

2794 lm

Peak candela output:

5138 cd

Light quality:

CRI: 47,6

Color temperature:

4091 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Medium

Target:

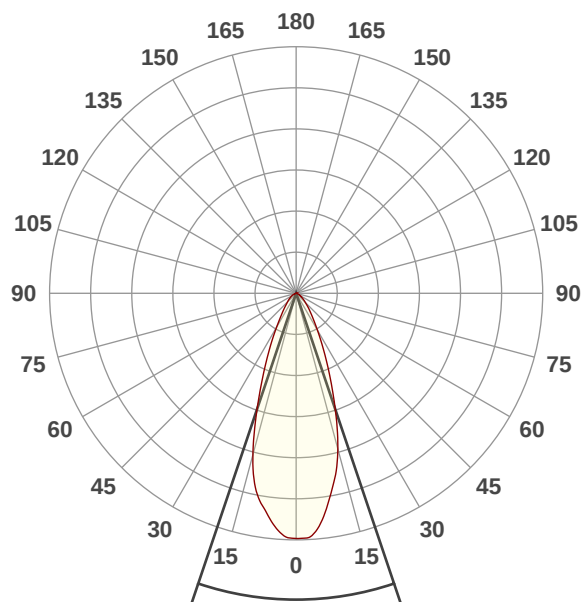
4000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:06:01

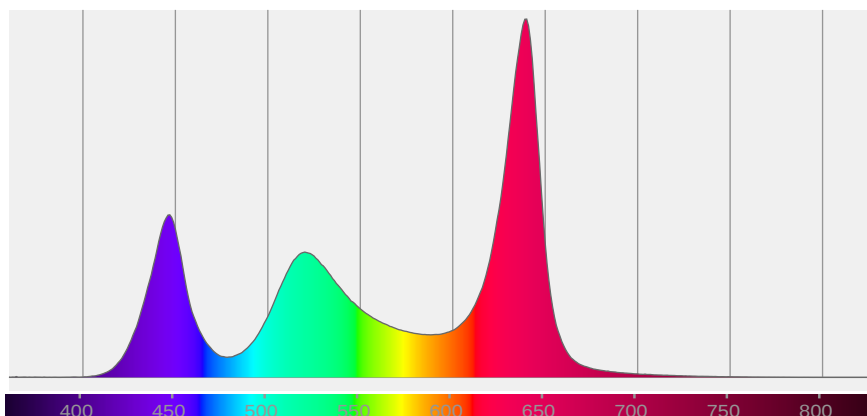


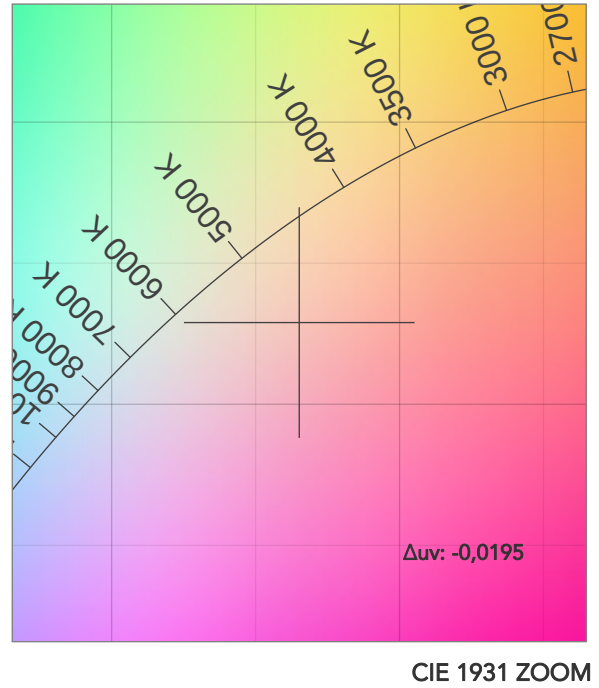
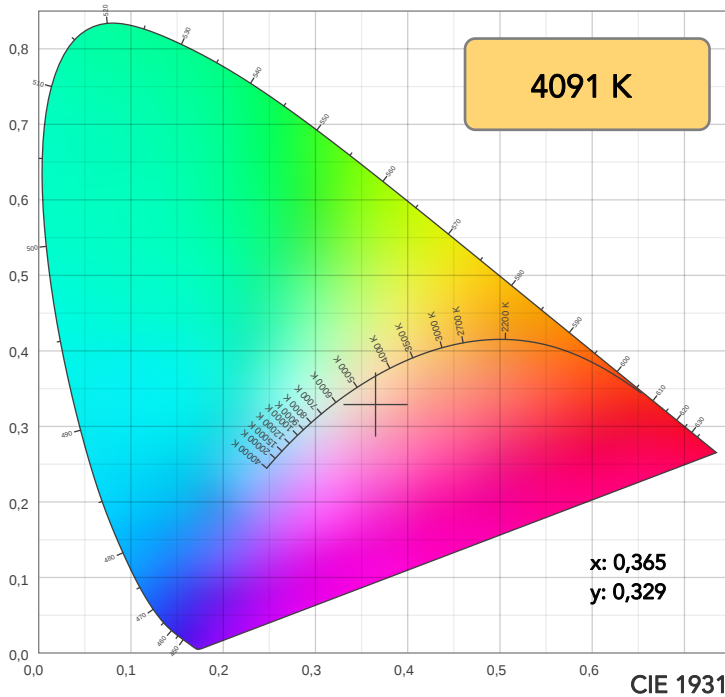
Beam angle 50%: 37,3°

Field angle 10%: 71,7°

Cut off angle 2.5%: 112,9°

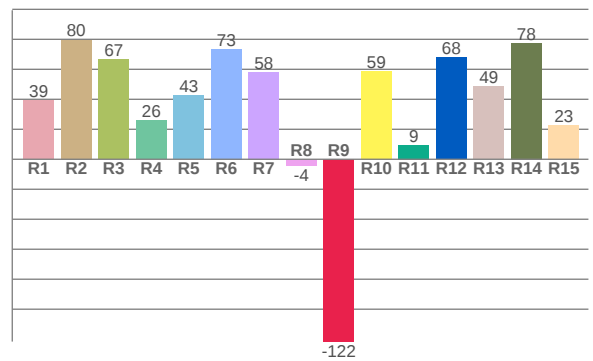
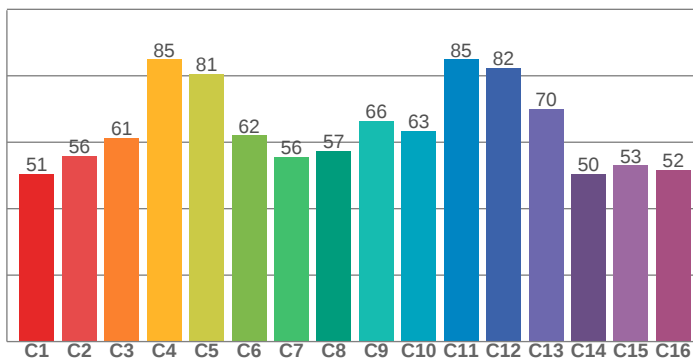
Spectra





TM30: 66,2

CRI: 47,6 (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
39,1	79,6	66,6	26,0	42,6	73,4	58,1	-4,5	-121,6	58,8	9,4	67,8	48,7	77,6	22,9

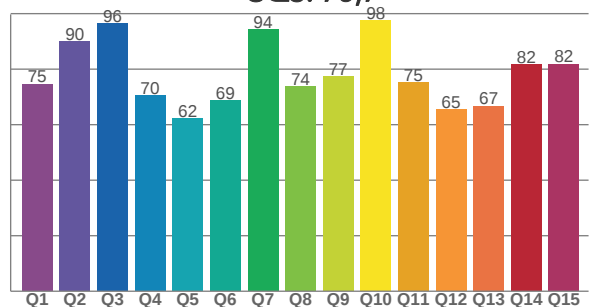
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
50,5	56,0	61,3	85,0	80,6	62,0	55,5	57,4	66,5	63,4	84,9	82,4	70,0	50,5	53,0	51,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,5	89,9	96,4	70,5	62,2	68,7	94,2	73,7	77,3	97,5	75,2	65,5	66,7	81,7	81,7

CQS: 75,7



COLOR PARAMETERS

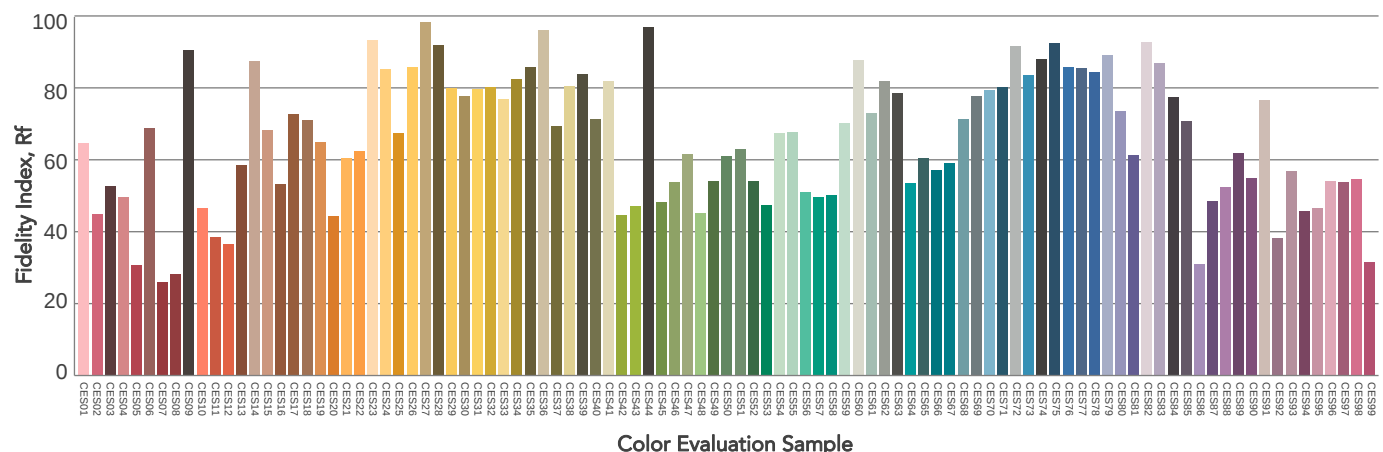
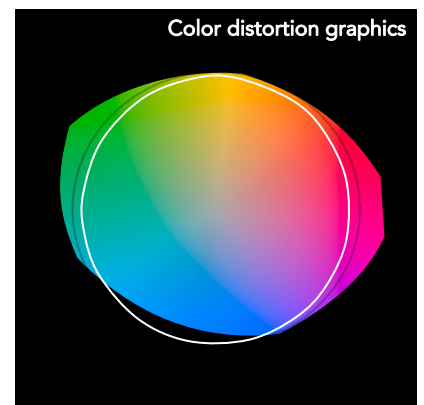
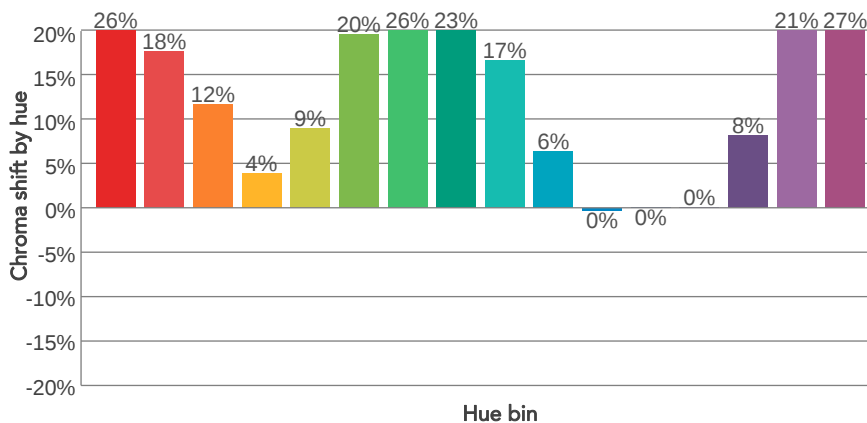
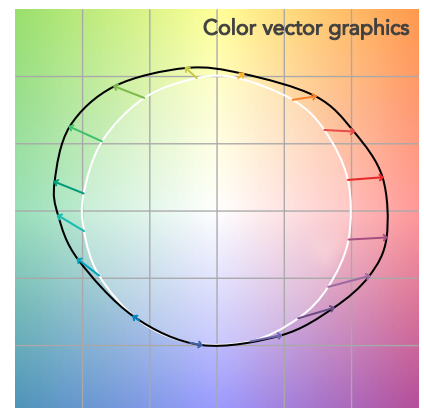
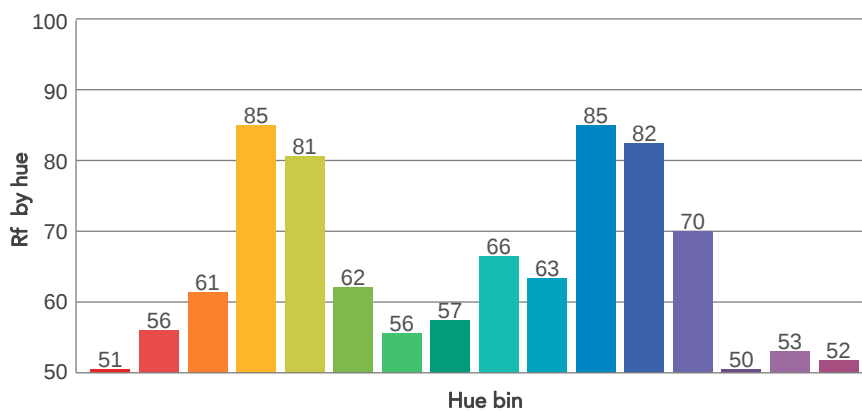
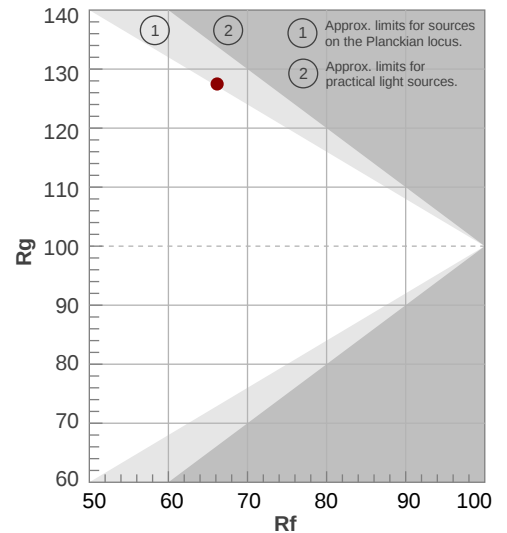
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4091 K	47,6	-121,6	66,2	127,5	75,7	38	0,365	0,329	-0,0195

TM30 DETAILS

Rf 66,2
Fidelity index Rf

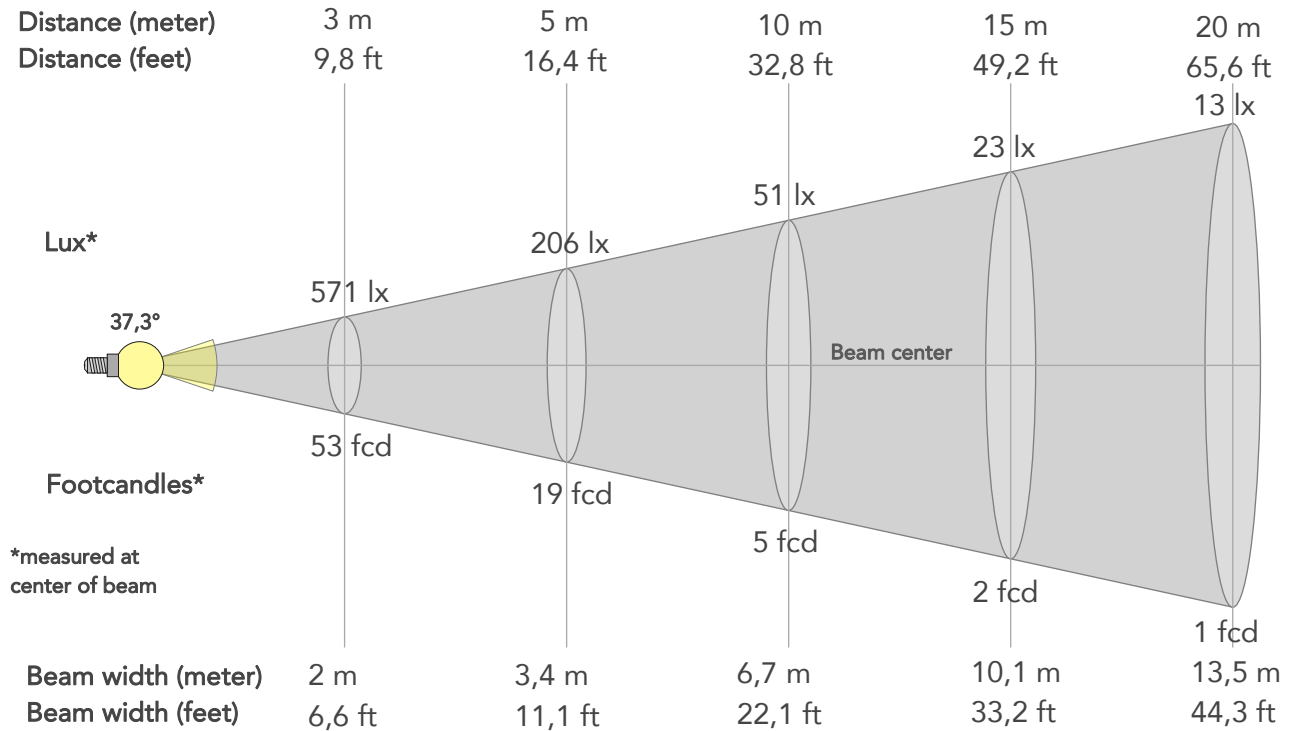
Rg 127,5
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	51	26%	-3%
2	56	18%	-13%
3	61	12%	-13%
4	85	4%	-3%
5	81	9%	7%
6	62	20%	14%
7	56	26%	4%
8	57	23%	-4%
9	66	17%	-15%
10	63	6%	-19%
11	85	0%	-5%
12	82	0%	8%
13	70	0%	23%
14	50	8%	26%
15	53	21%	24%
16	52	27%	7%



BEAM DETAILS

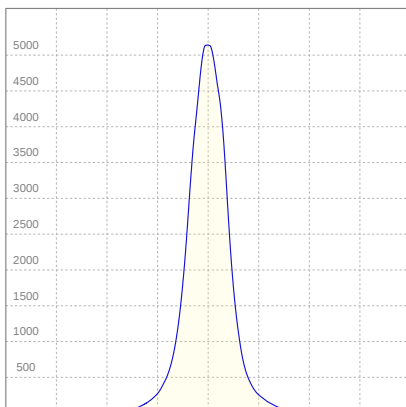
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,3°	71,7°	112,9°	97,3%	89,5%



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	5138lx	1285lx	571lx	321lx	206lx	91lx	51lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	477fcd	119fcd	53fcd	30fcd	19fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,7m	3,4m	5,1m	6,7m	10,1m	13,5m	16,9m	20,2m	27m	33,7m
Beam wid.	2,2ft	4,5ft	6,6ft	8,8ft	11,1ft	16,6ft	22,1ft	33,2ft	44,3ft	55,3ft	66,4ft	88,5ft	110,6ft

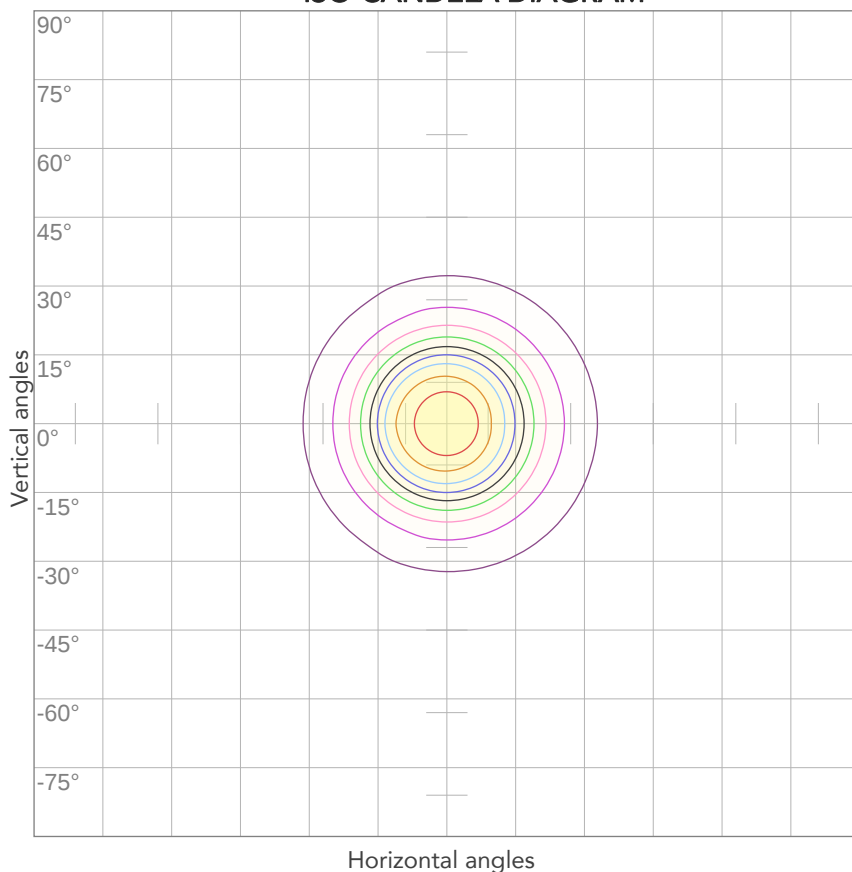
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,505A	108,3W	26lm/W

ISO CANDELA DIAGRAM



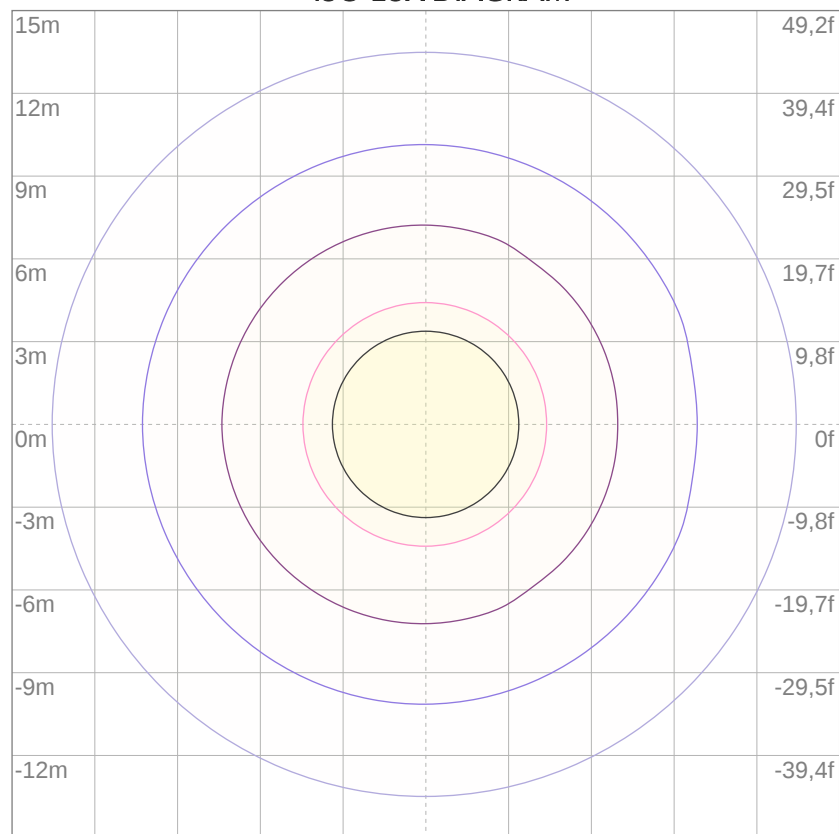
10%	514 cd
20%	1028 cd
30%	1541 cd
40%	2055 cd
50%	2569 cd
60%	3083 cd
70%	3597 cd
80%	4110 cd

Conditions:

Number of c-planes: 2

Candela at center: 5138 cd

ISO LUX DIAGRAM



3%	1,54 lx
5%	2,57 lx
10%	5,14 lx
30%	15,4 lx
50%	25,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 51,4 lx

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



Total lumen output:

2980 lm

Peak candela output:

19693 cd

Light quality:

CRI: 46,8

Color temperature:

3948 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow

Target:

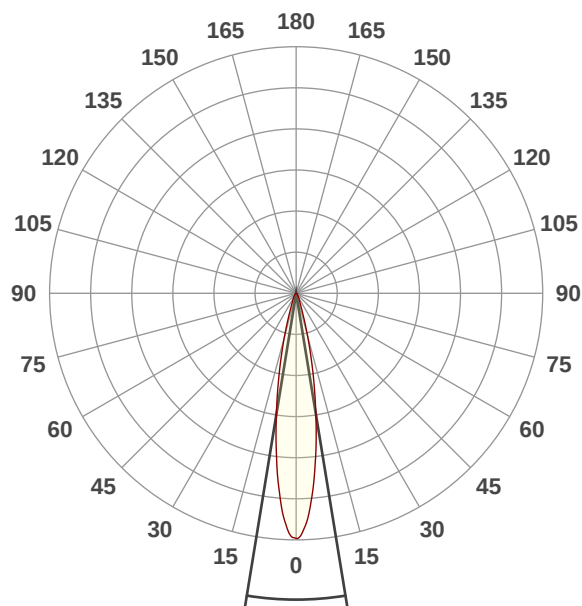
4000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:18:54

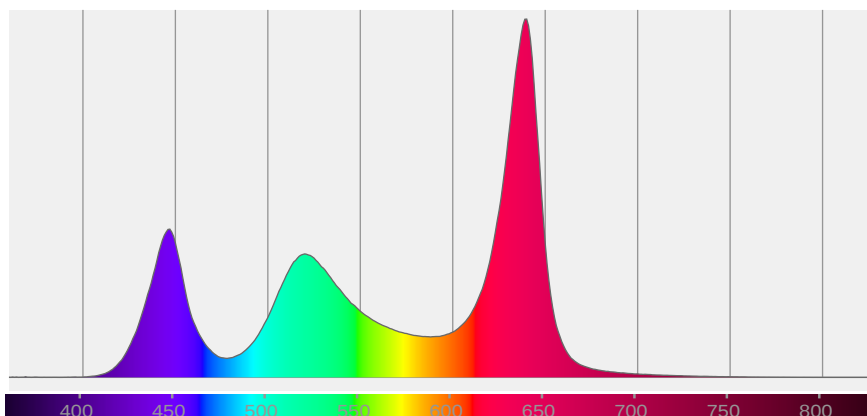


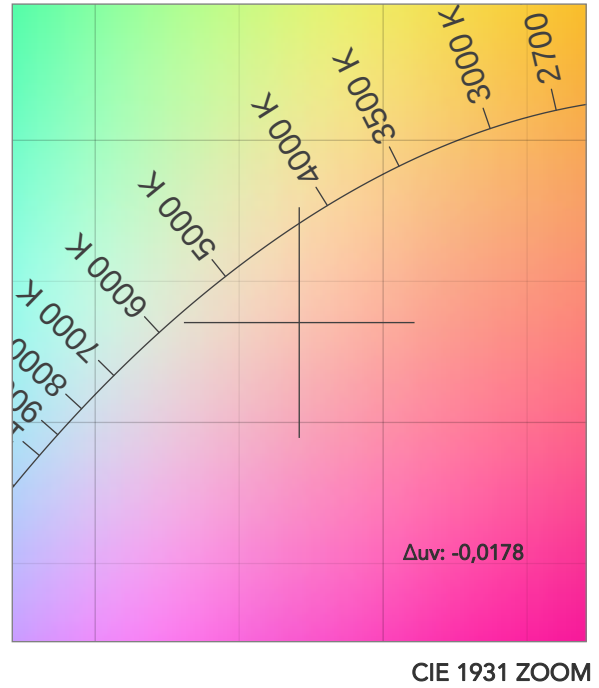
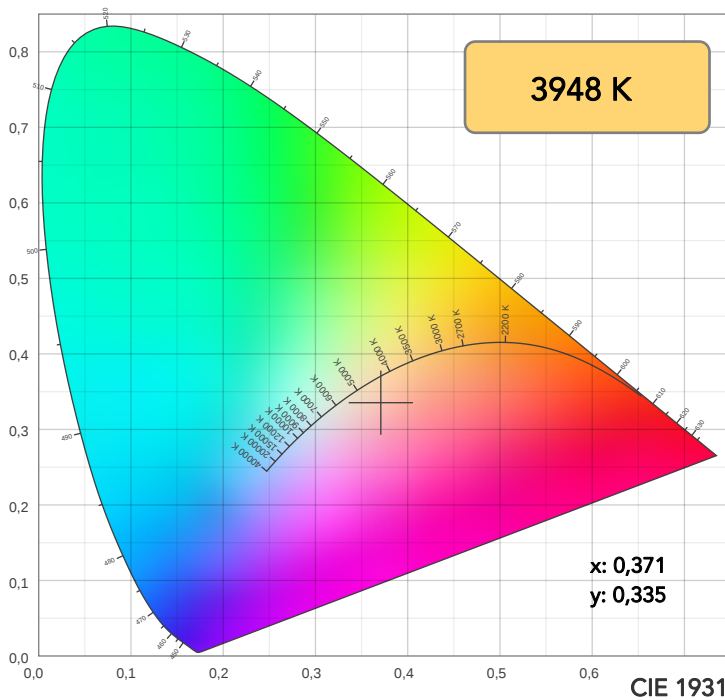
Beam angle 50%: 18,5°

Field angle 10%: 35,3°

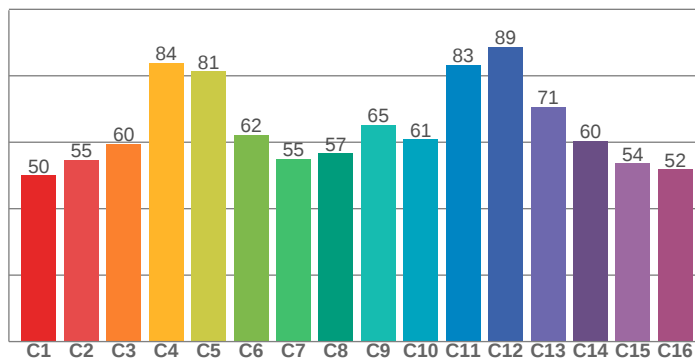
Cut off angle 2.5%: 55,7°

Spectra

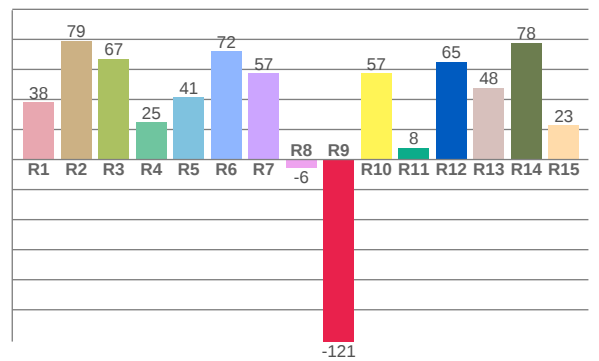




TM30: 65,6



CRI: 46,8 (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
38,2	79,2	67,1	24,9	41,4	72,2	57,4	-5,6	-121,2	57,3	7,8	65,2	47,8	77,9	22,9

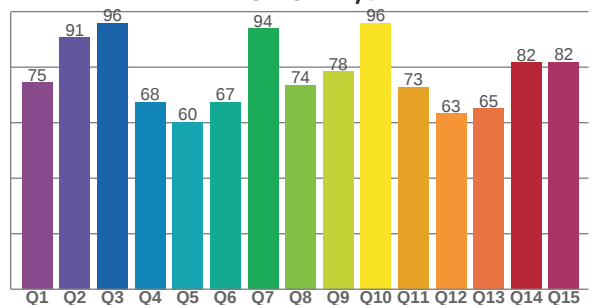
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
50,0	54,7	59,5	83,8	81,3	62,2	54,9	56,7	65,2	60,9	83,2	88,6	70,7	60,5	53,6	51,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,5	90,7	95,8	67,5	60,3	67,4	94,0	73,6	78,4	95,8	72,9	63,3	65,1	81,6	81,8

CQS: 74,6



COLOR PARAMETERS

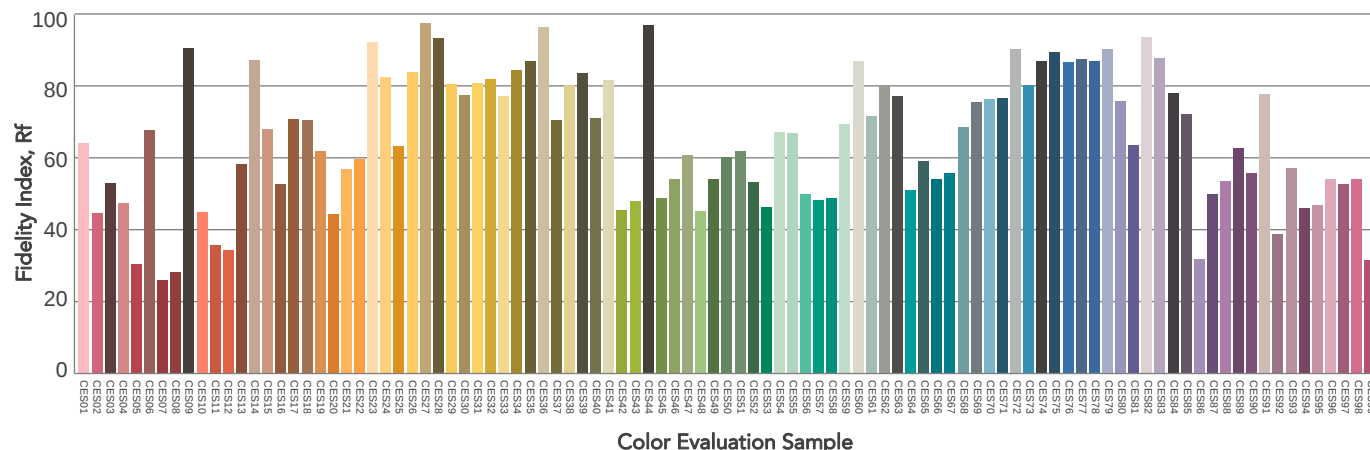
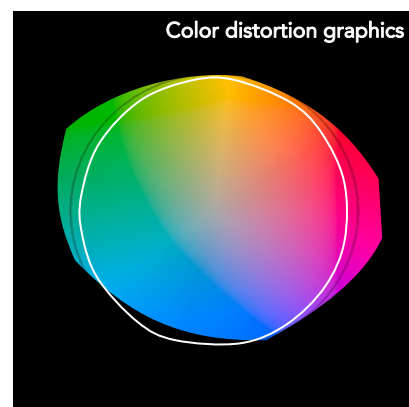
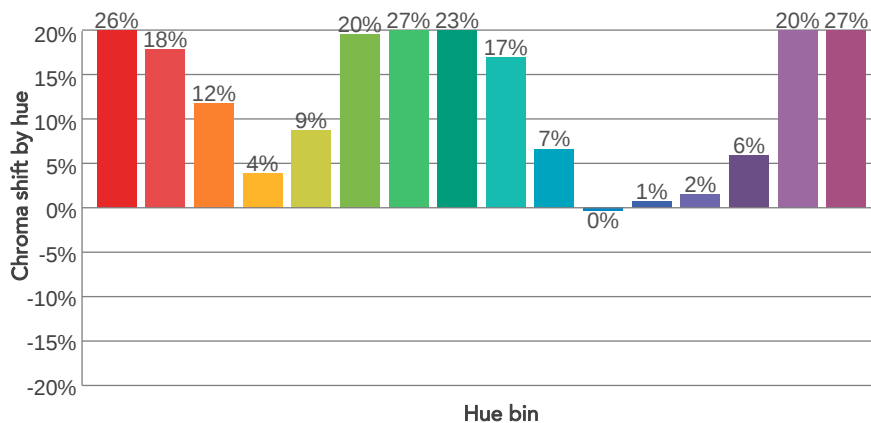
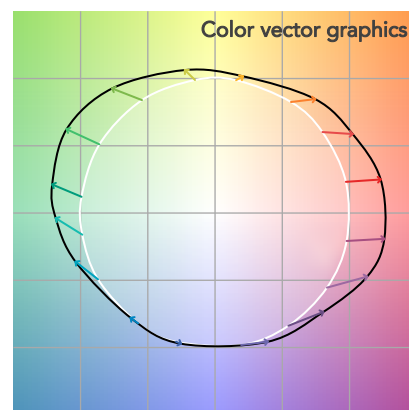
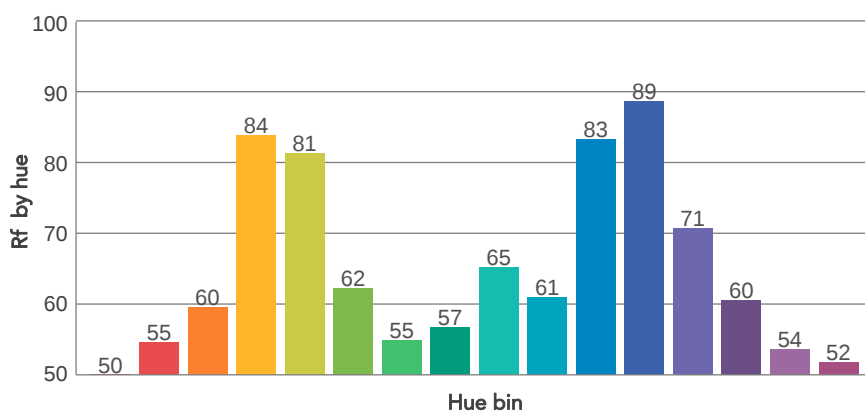
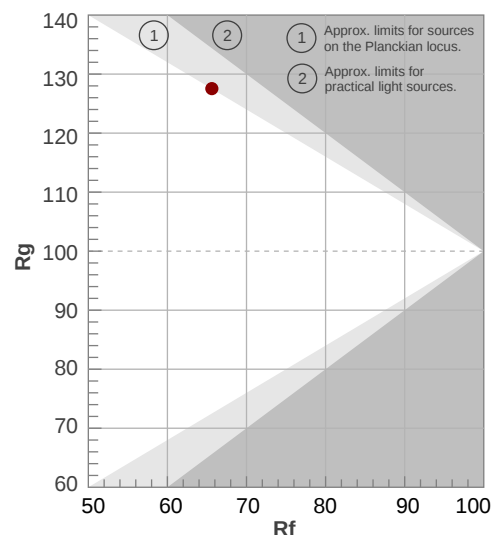
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3948 K	46,8	-121,2	65,6	127,5	74,6	36	0,371	0,335	-0,0178

TM30 DETAILS

Rf 65,6
Fidelity index Rf

Rg 127,5
Gammut index

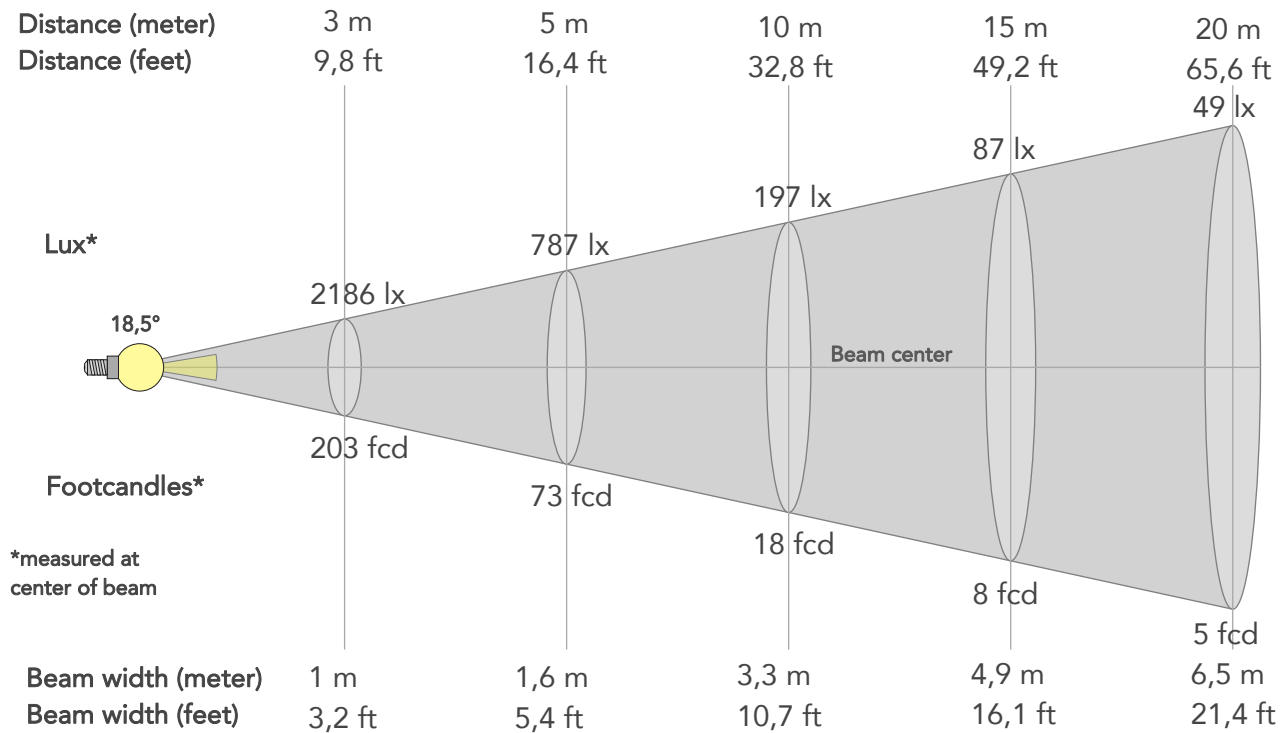
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	50	26%	-3%
2	55	18%	-14%
3	60	12%	-14%
4	84	4%	-4%
5	81	9%	6%
6	62	20%	14%
7	55	27%	4%
8	57	23%	-5%
9	65	17%	-16%
10	61	7%	-20%
11	83	0%	-7%
12	89	1%	4%
13	71	2%	20%
14	60	6%	27%
15	54	20%	23%
16	52	27%	7%



BEAM DETAILS



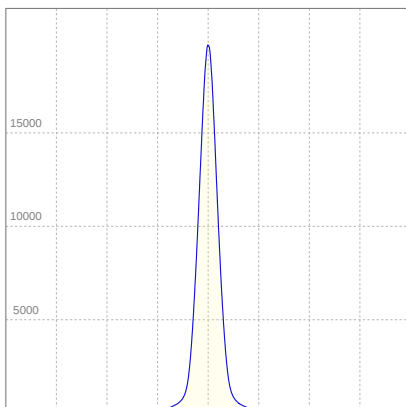
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,5°	35,3°	55,7°	99,5%	96,4%



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	19674lx	4918lx	2186lx	1230lx	787lx	350lx	197lx	87lx	49lx	31lx	22lx	12lx	8lx
Footcand.	1828fcd	457fcd	203fcd	114fcd	73fcd	32fcd	18fcd	8fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,6m	2,4m	3,3m	4,9m	6,5m	8,2m	9,8m	13,1m	16,3m
Beam wid.	1,1ft	2,2ft	3,2ft	4,3ft	5,4ft	8ft	10,7ft	16,1ft	21,4ft	26,8ft	32,1ft	42,8ft	53,5ft

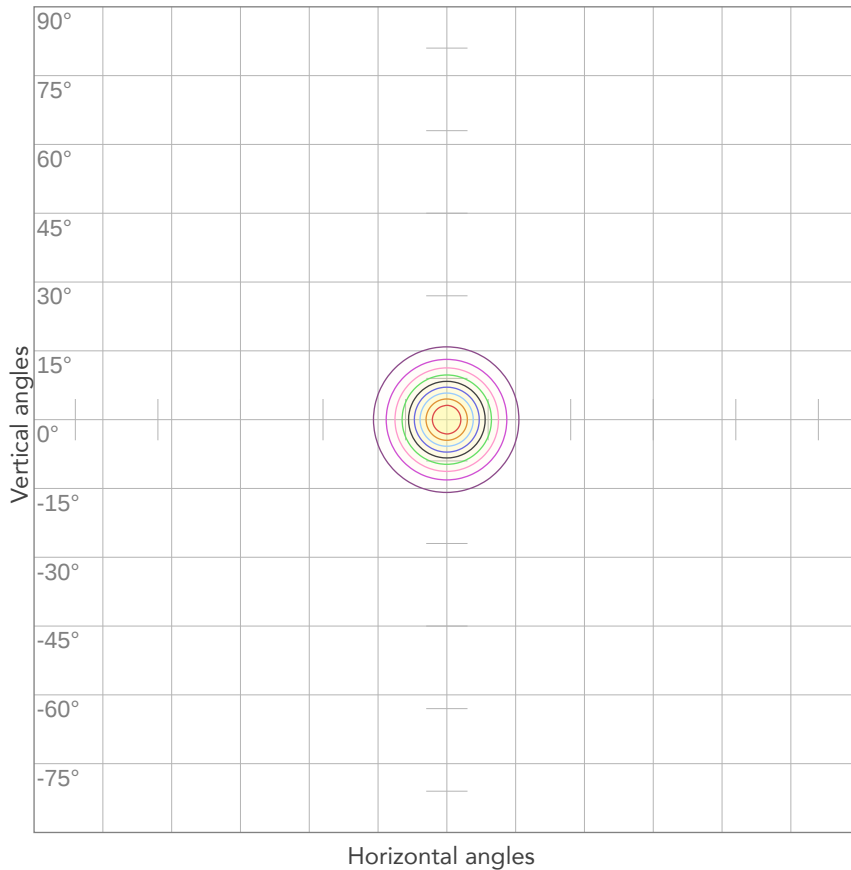
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,500A	106,4W	28lm/W

ISO CANDELA DIAGRAM



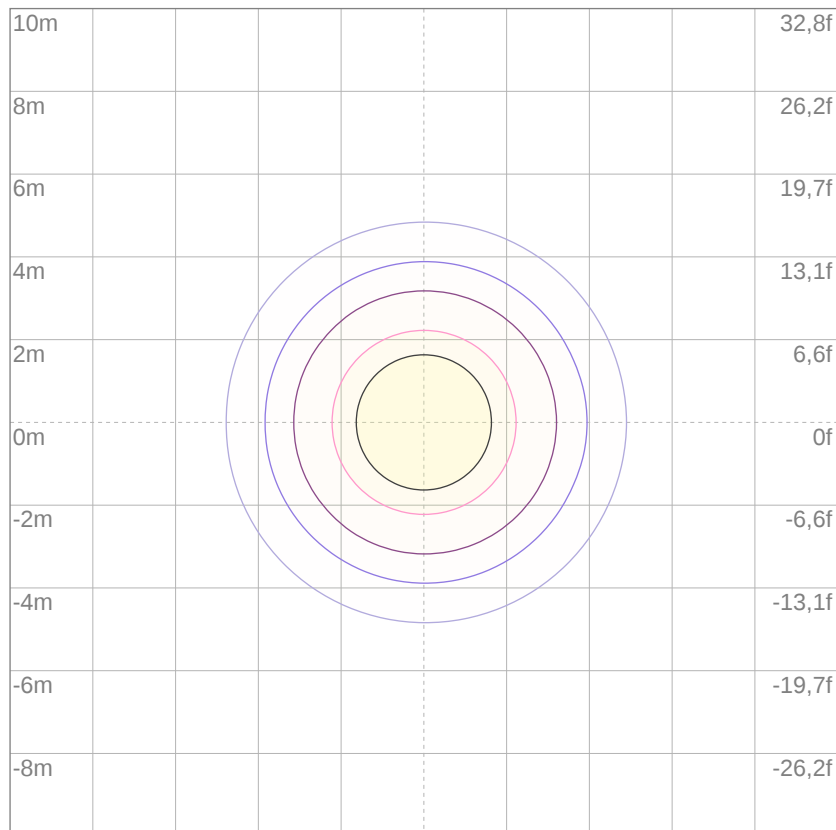
10%	1967 cd
20%	3935 cd
30%	5902 cd
40%	7870 cd
50%	9837 cd
60%	11804 cd
70%	13772 cd
80%	15739 cd

Conditions:

Number of c-planes: 2

Candela at center: 19674 cd

ISO LUX DIAGRAM



3%	5,90 lx
5%	9,84 lx
10%	19,7 lx
30%	59,0 lx
50%	98,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 197 lx

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



Total lumen output:

2923 lm

Peak candela output:

4162 cd

Light quality:

CRI: 47,2

Color temperature:

4058 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide

Target:

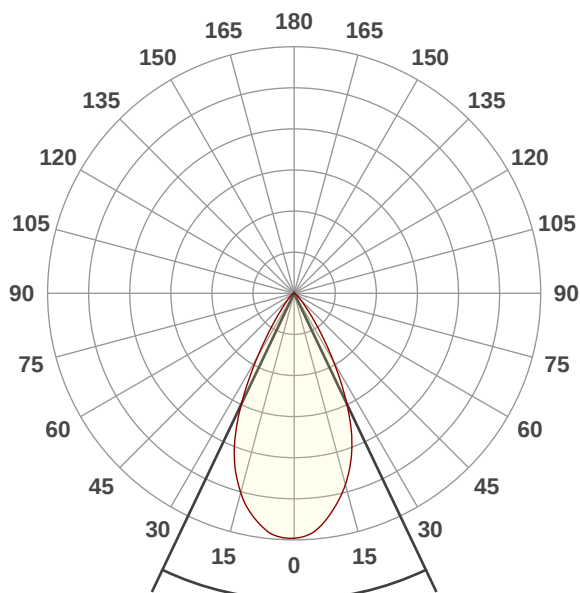
4000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:27:43

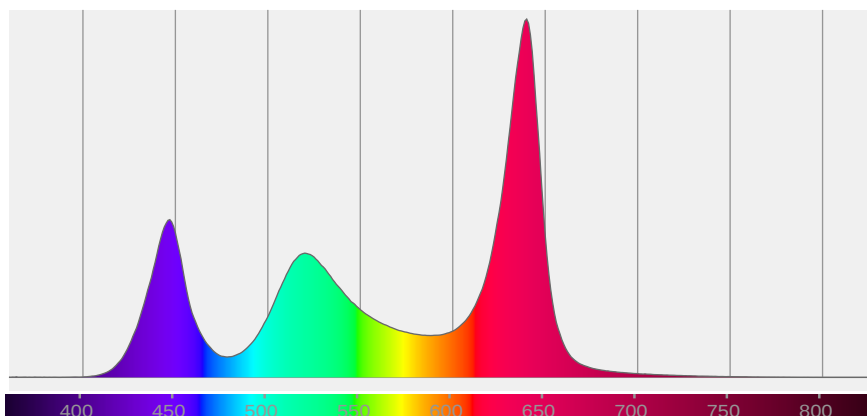


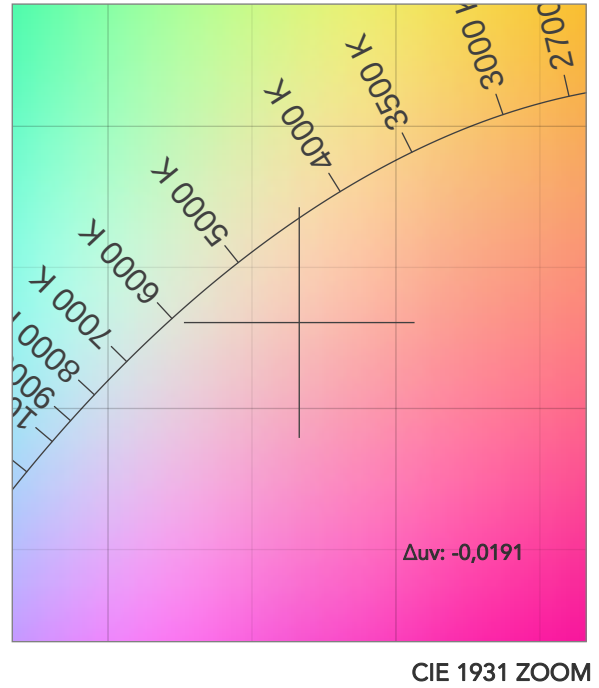
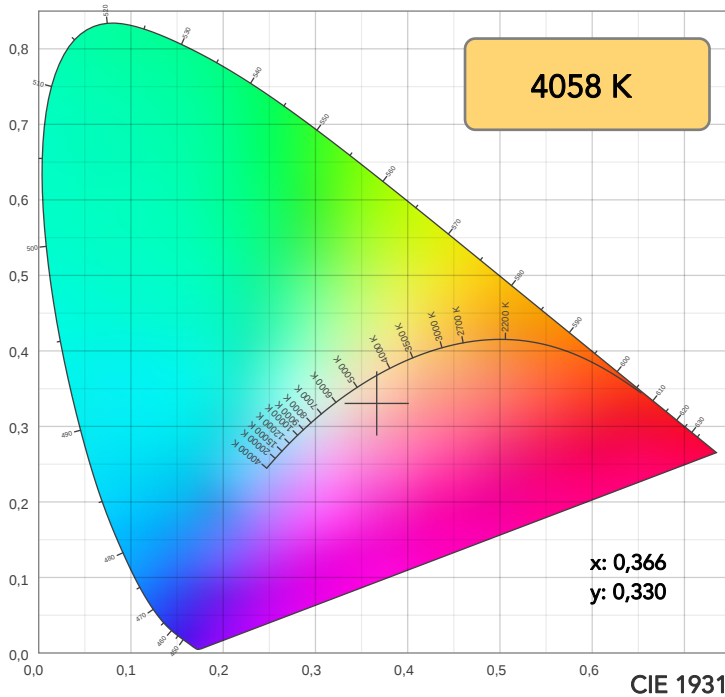
Beam angle 50%: 50,9°

Field angle 10%: 75,3°

Cut off angle 2.5%: 97,7°

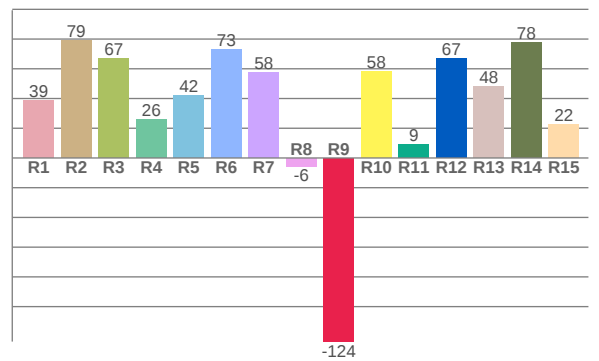
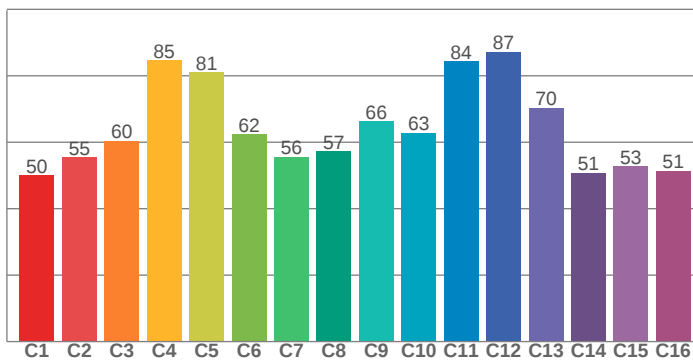
Spectra





TM30: 65,9

CRI: 47,2 (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
38,6	79,3	66,7	25,6	42,0	73,0	57,6	-5,6	-123,5	58,0	9,0	66,9	48,2	77,7	22,4

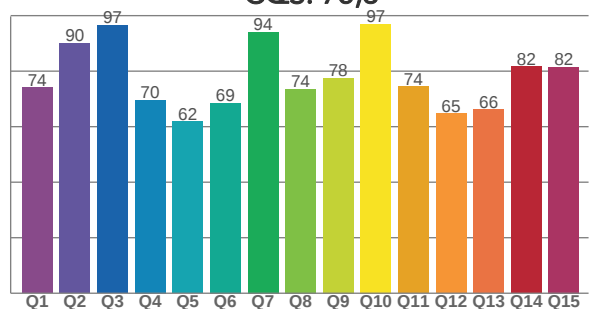
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
50,0	55,4	60,5	84,7	81,1	62,3	55,5	57,3	66,2	62,7	84,4	87,2	70,4	50,8	52,7	51,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,1	90,0	96,5	69,6	61,8	68,6	94,1	73,5	77,6	96,9	74,4	64,7	66,1	81,6	81,5

CQS: 75,3



COLOR PARAMETERS

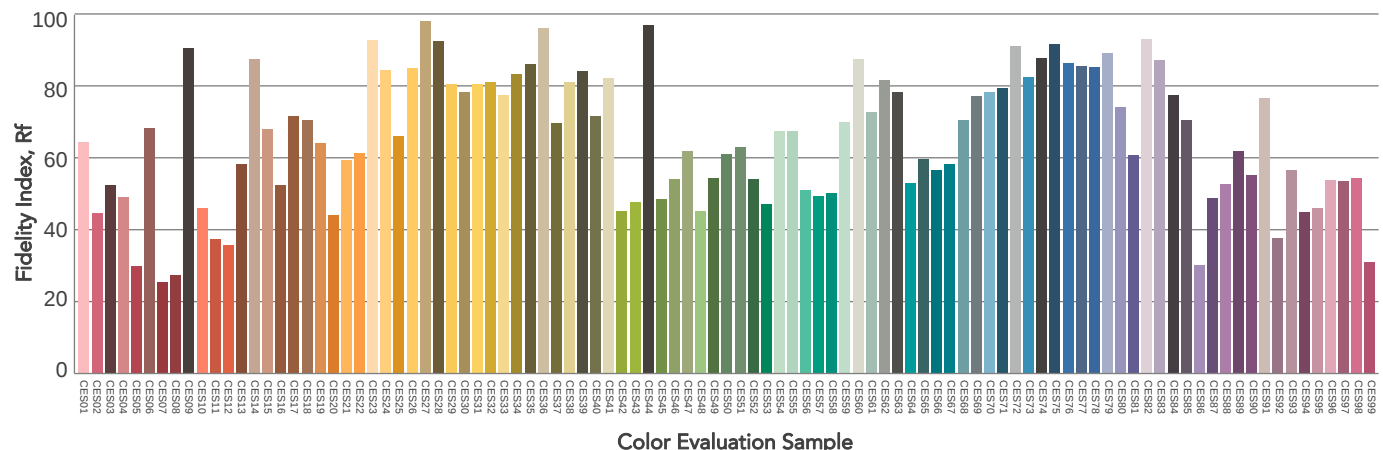
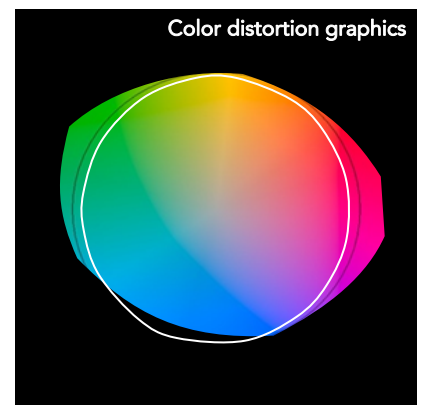
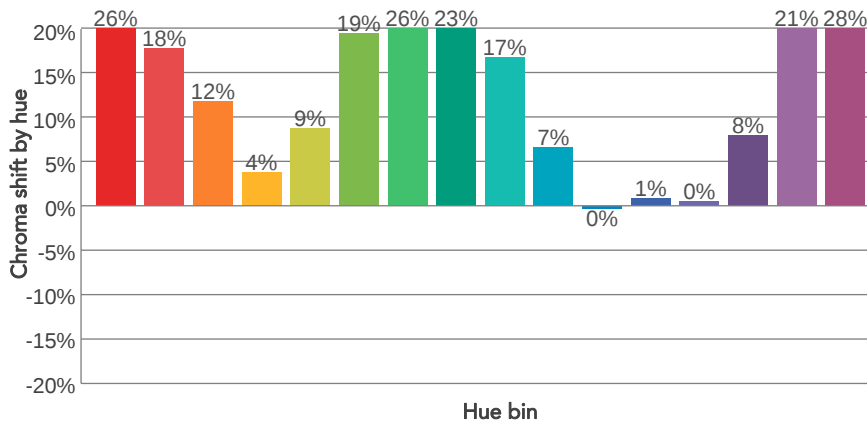
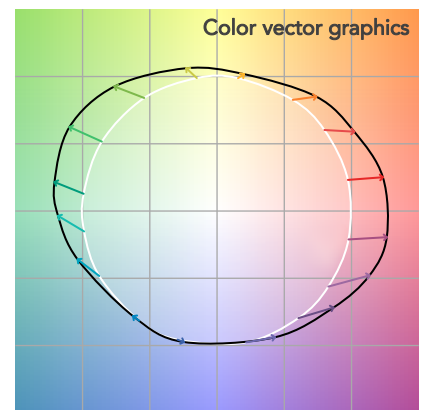
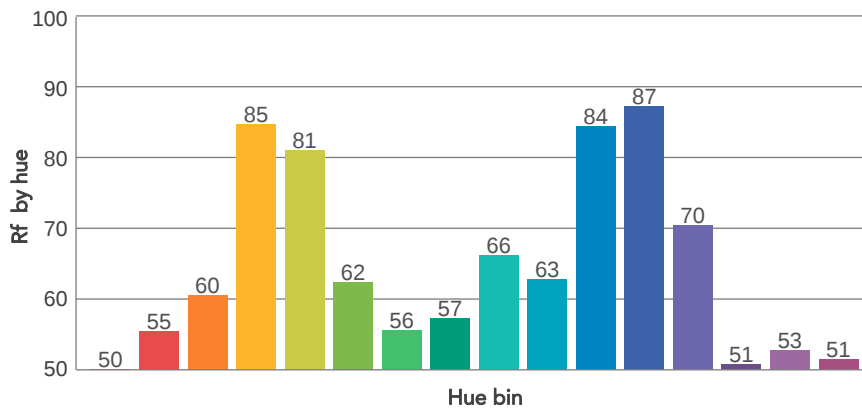
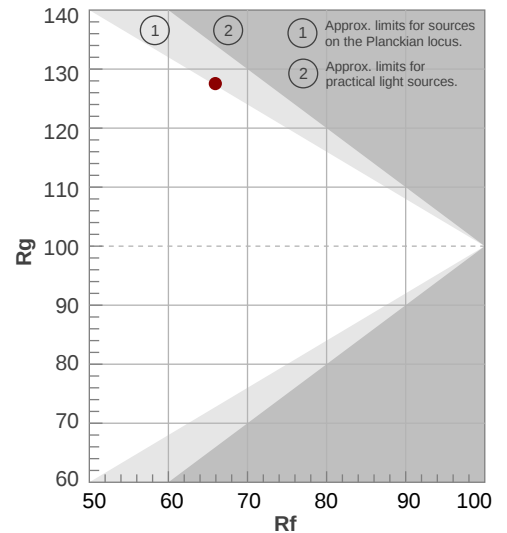
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4058 K	47,2	-123,5	65,9	127,5	75,3	38	0,366	0,330	-0,0191

TM30 DETAILS

Rf 65,9
Fidelity index Rf

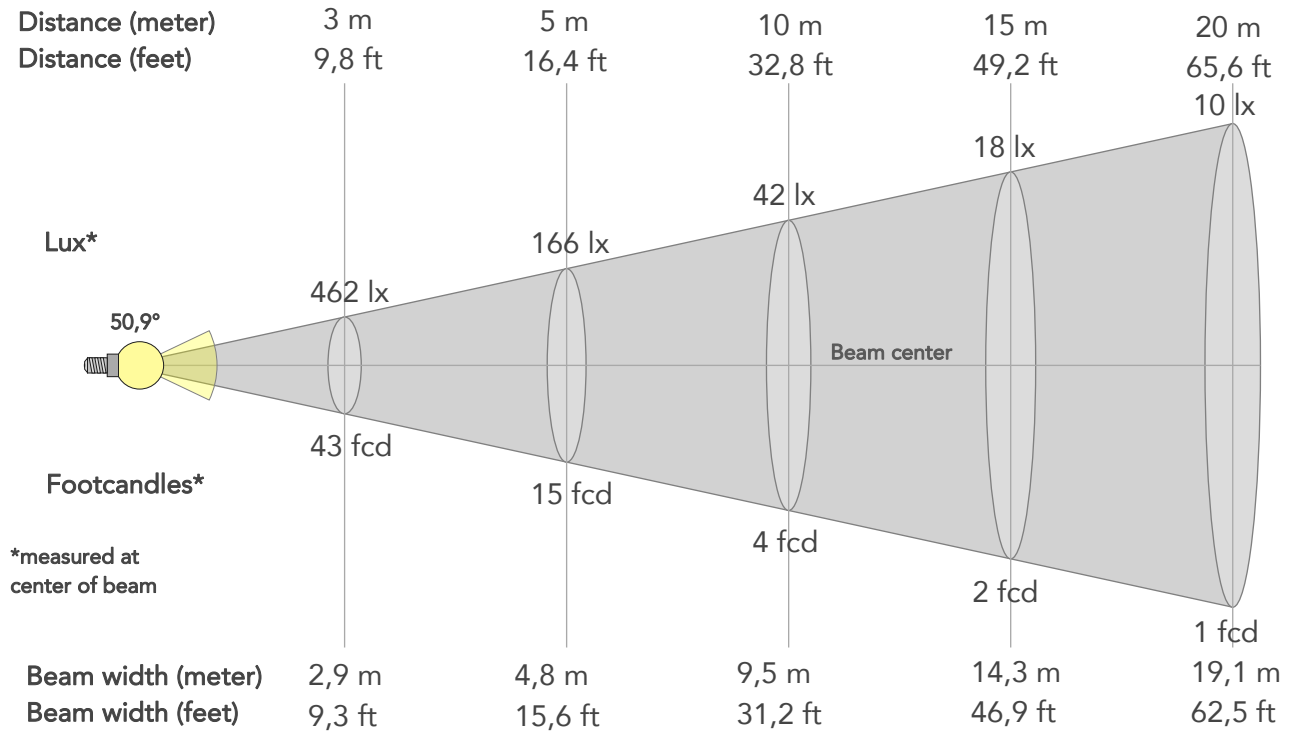
Rg 127,5
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	50	26%	-3%
2	55	18%	-13%
3	60	12%	-13%
4	85	4%	-4%
5	81	9%	6%
6	62	19%	14%
7	56	26%	4%
8	57	23%	-4%
9	66	17%	-15%
10	63	7%	-19%
11	84	0%	-6%
12	87	1%	5%
13	70	0%	22%
14	51	8%	26%
15	53	21%	24%
16	51	28%	7%



BEAM DETAILS

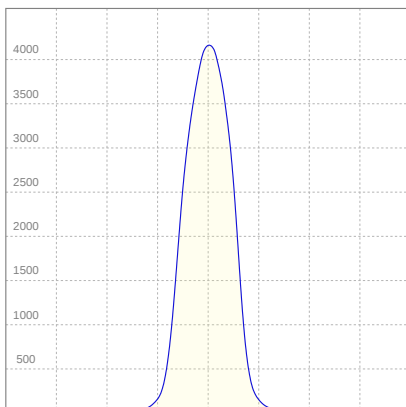
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50,9°	75,3°	97,7°	99,2%	95,8%



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	4157lx	1039lx	462lx	260lx	166lx	74lx	42lx	18lx	10lx	7lx	5lx	3lx	2lx
Footcand.	386fcd	97fcd	43fcd	24fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1m	1,9m	2,9m	3,8m	4,8m	7,1m	9,5m	14,3m	19,1m	23,8m	28,6m	38,1m	47,6m
Beam wid.	3,1ft	6,3ft	9,3ft	12,5ft	15,6ft	23,4ft	31,2ft	46,9ft	62,5ft	78,1ft	93,7ft	125ft	156,2ft

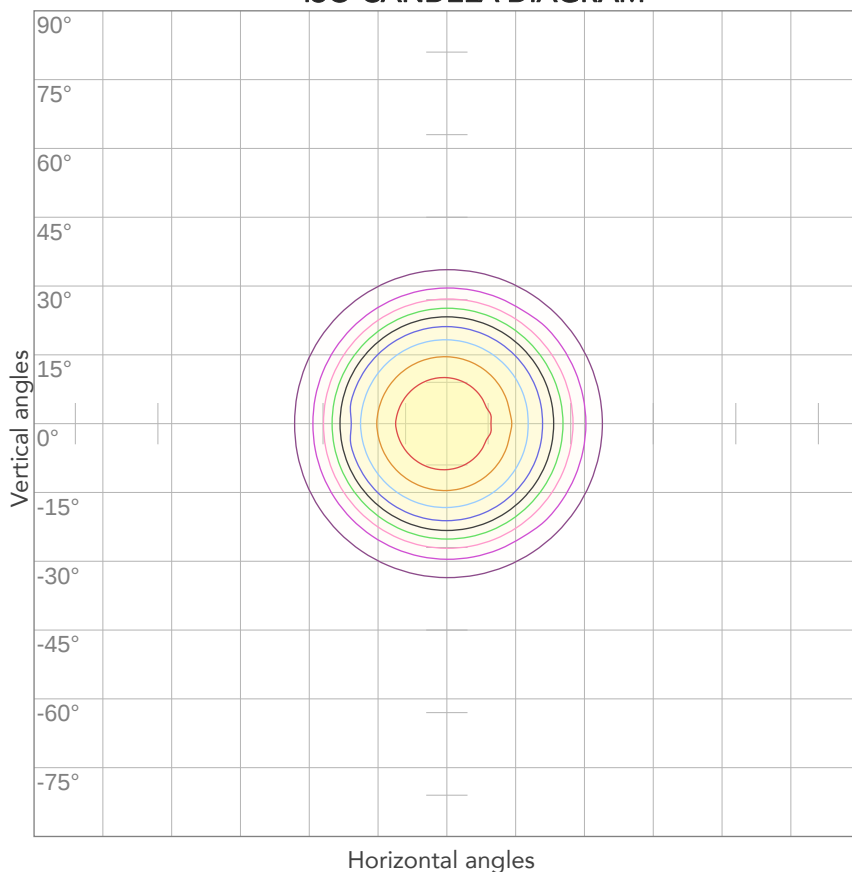
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,501A	107,4W	27lm/W

ISO CANDELA DIAGRAM



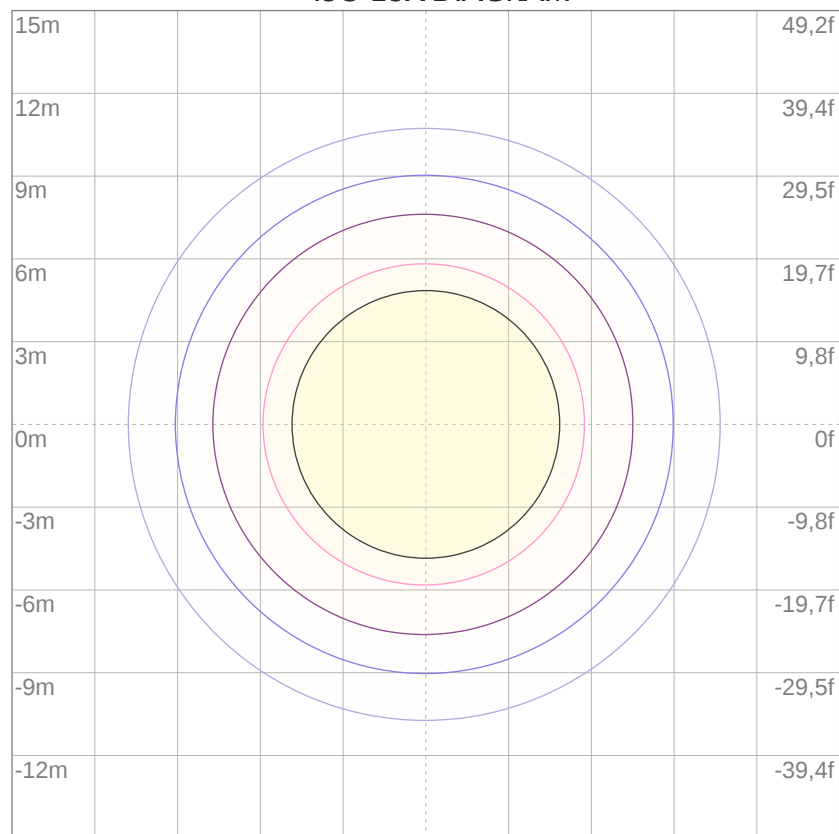
10%	416 cd
20%	831 cd
30%	1247 cd
40%	1663 cd
50%	2078 cd
60%	2494 cd
70%	2910 cd
80%	3325 cd

Conditions:

Number of c-planes: 2

Candela at center: 4157 cd

ISO LUX DIAGRAM



3%	1,25 lx
5%	2,08 lx
10%	4,16 lx
30%	12,5 lx
50%	20,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 41,6 lx

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



Total lumen output:

3048 lm

Peak candela output:

5595 cd

Light quality:

CRI: 48,7

Color temperature:

5119 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Medium

Target:

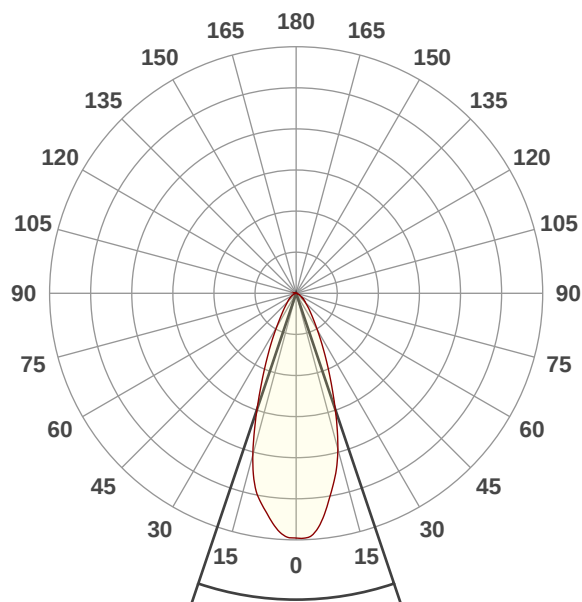
5000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:12:17

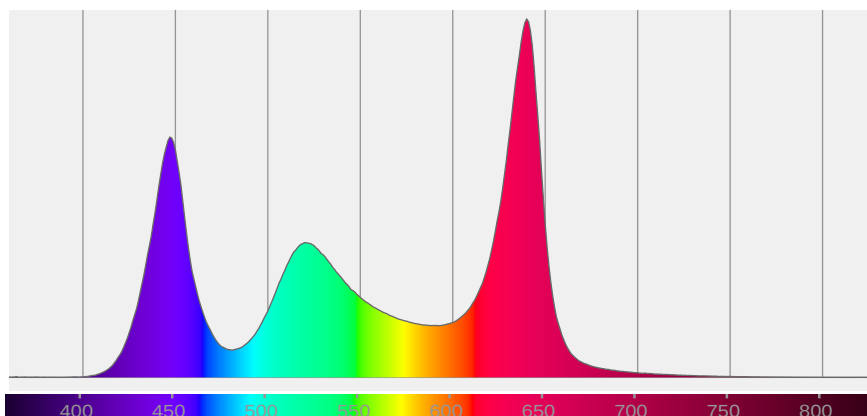


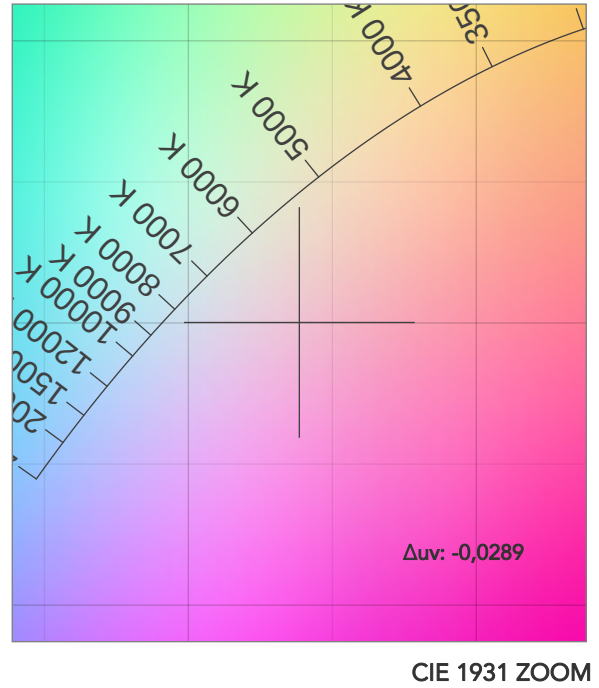
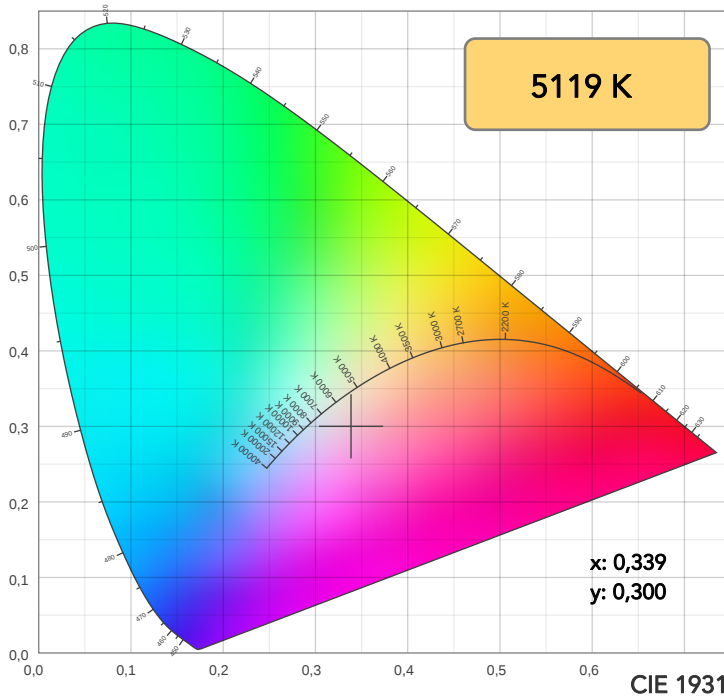
Beam angle 50%: 37,3°

Field angle 10%: 71,7°

Cut off angle 2.5%: 113,4°

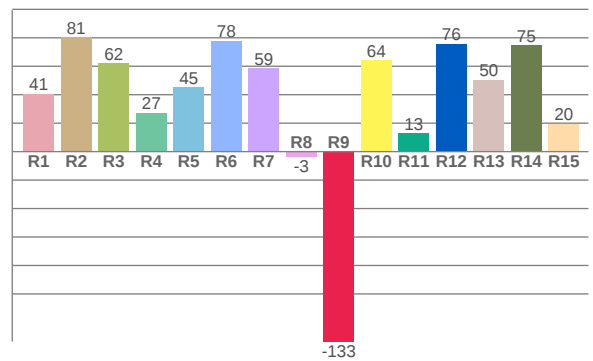
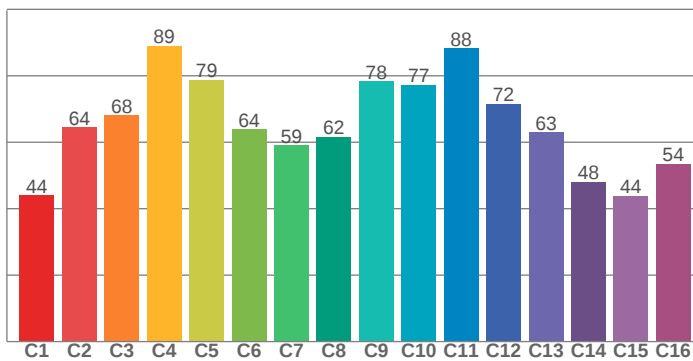
Spectra





TM30: 67,7

CRI: 48,7 (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
40,6	80,6	62,3	27,3	45,4	77,8	58,8	-3,5	-133,5	64,3	13,0	75,7	50,4	74,9	19,5

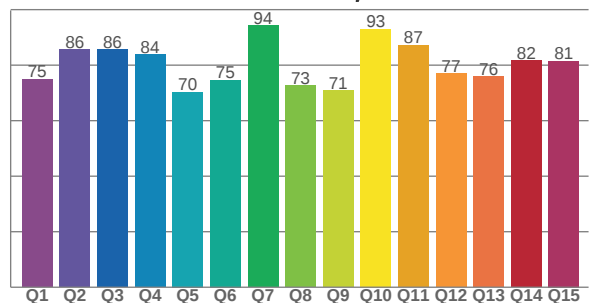
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
44,0	64,4	68,1	89,0	78,8	63,9	59,1	61,7	78,3	77,2	88,2	71,5	62,9	48,0	43,9	53,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,9	85,7	85,6	83,8	70,3	74,7	94,3	72,7	70,9	93,1	87,1	77,0	75,9	81,6	81,4

CQS: 79,3



COLOR PARAMETERS

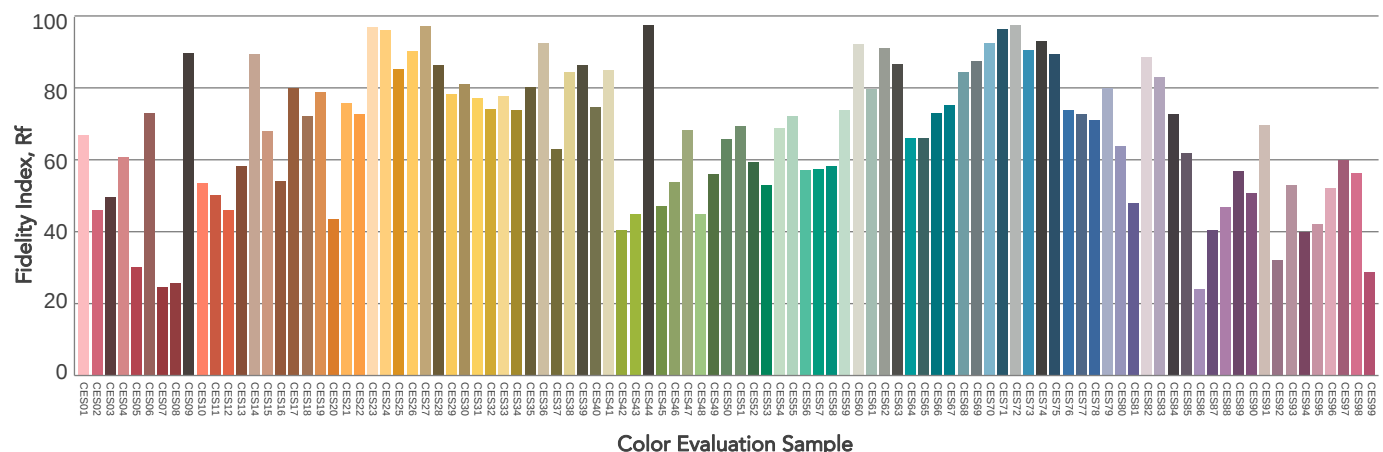
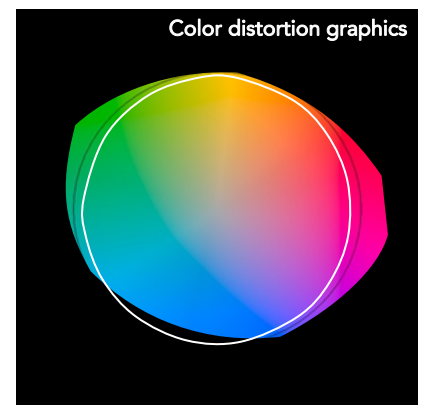
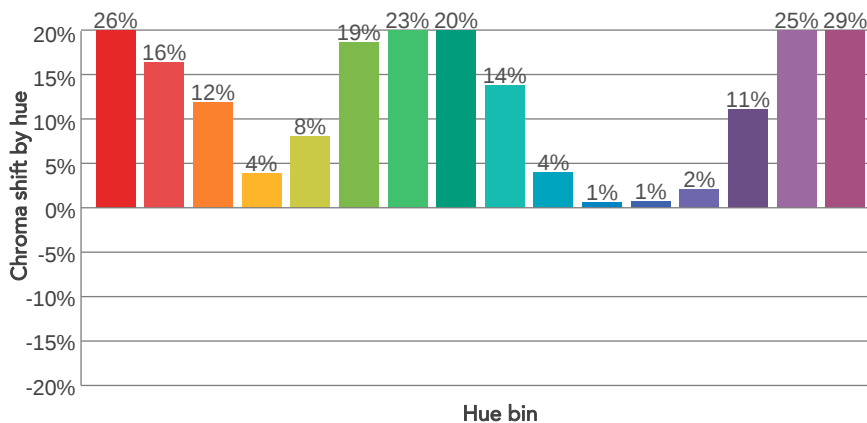
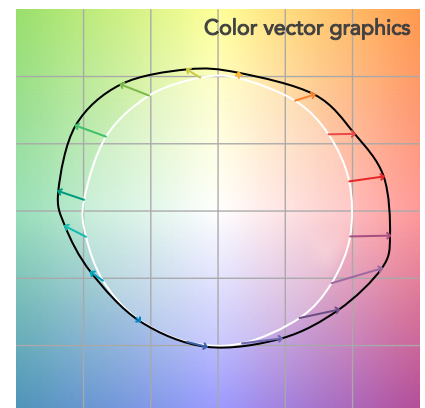
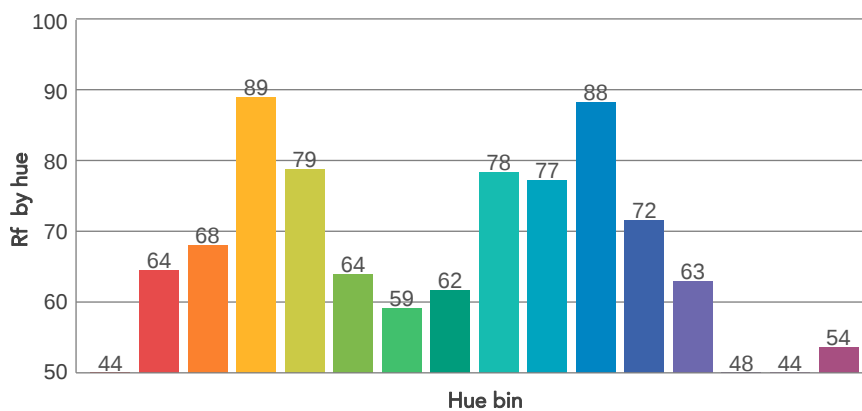
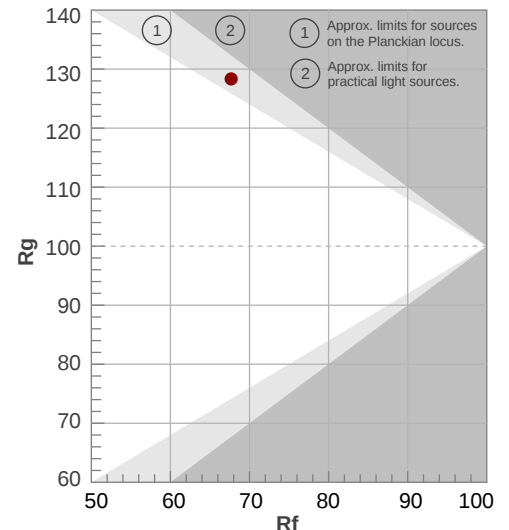
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5119 K	48,7	-133,5	67,7	128,3	79,3	45	0,339	0,300	-0,0289

TM30 DETAILS

Rf 67,7
Fidelity index Rf

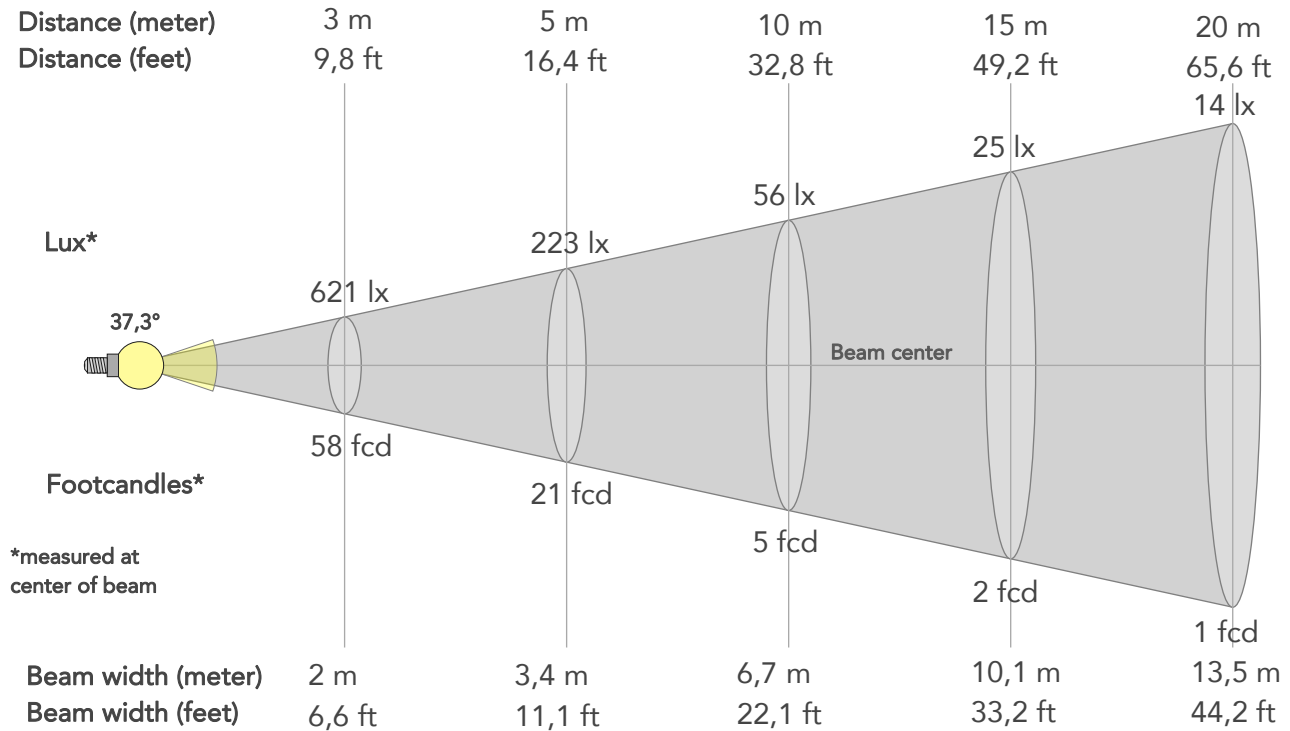
Rg 128,3
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	44	26%	-1%
2	64	16%	-11%
3	68	12%	-10%
4	89	4%	1%
5	79	8%	8%
6	64	19%	13%
7	59	23%	6%
8	62	20%	-3%
9	78	14%	-11%
10	77	4%	-10%
11	88	1%	4%
12	72	1%	15%
13	63	2%	30%
14	48	11%	28%
15	44	25%	30%
16	54	29%	6%



BEAM DETAILS

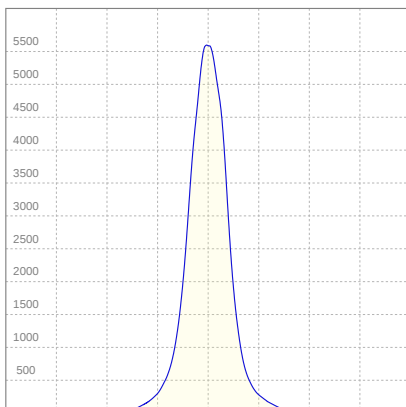
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,3°	71,7°	113,4°	97,3%	89,3%



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	5587lx	1397lx	621lx	349lx	223lx	99lx	56lx	25lx	14lx	9lx	6lx	3lx	2lx
Footcand.	519fcd	130fcd	58fcd	32fcd	21fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,7m	3,4m	5,1m	6,7m	10,1m	13,5m	16,9m	20,2m	27m	33,7m
Beam wid.	2,2ft	4,5ft	6,6ft	8,8ft	11,1ft	16,6ft	22,1ft	33,2ft	44,2ft	55,3ft	66,4ft	88,5ft	110,6ft

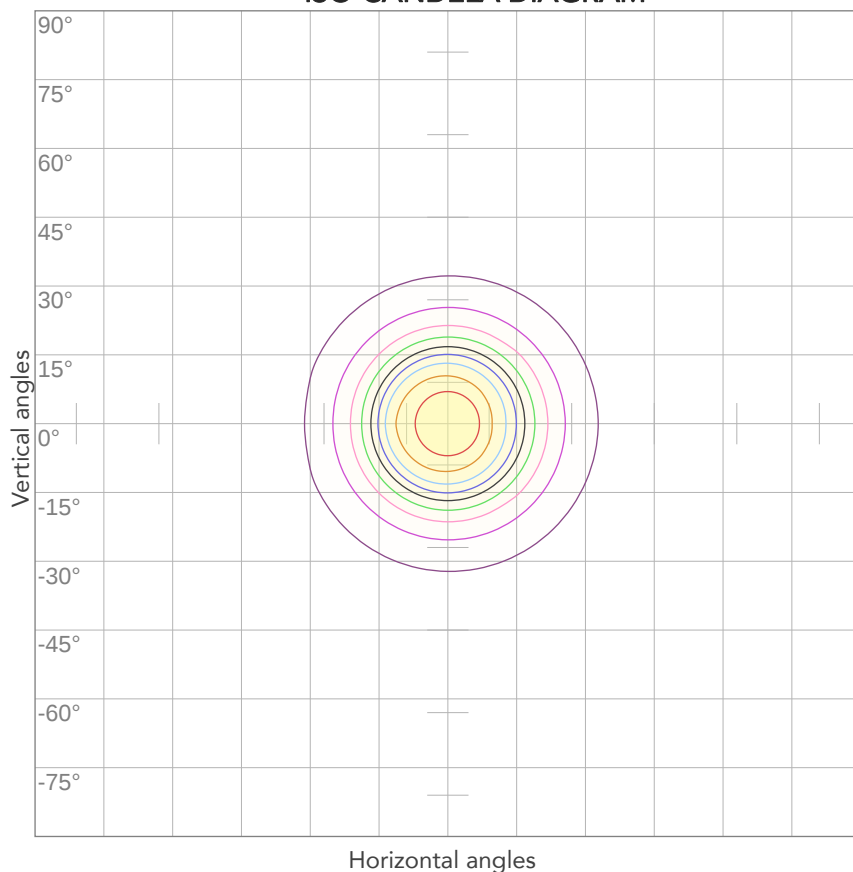
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Efficiency
226V	0,554A	119,1W	26lm/W

ISO CANDELA DIAGRAM



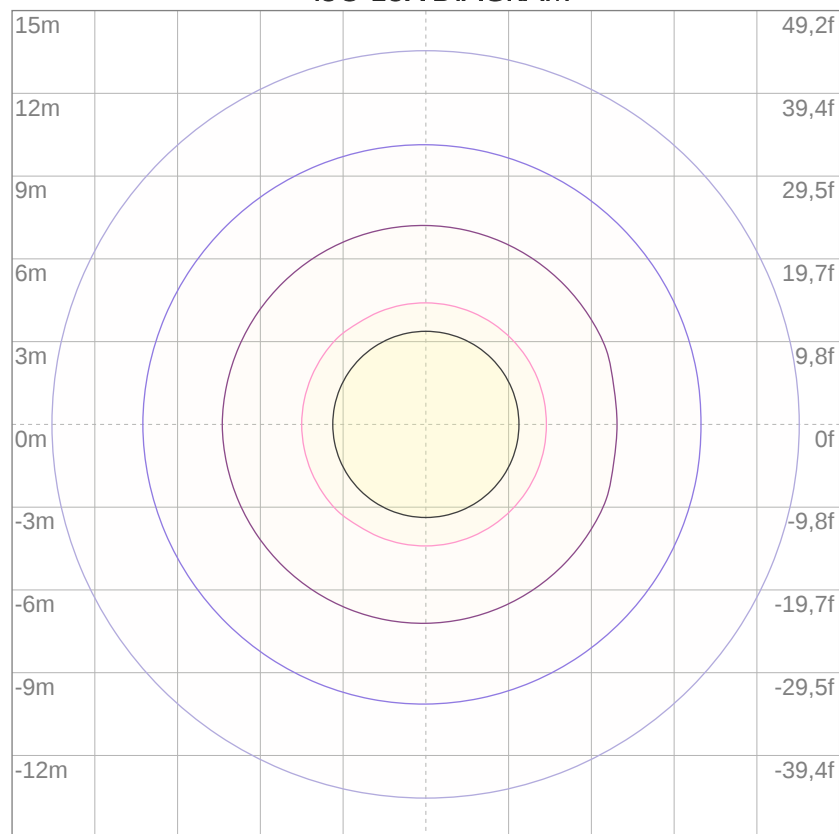
10%	559 cd
20%	1117 cd
30%	1676 cd
40%	2235 cd
50%	2794 cd
60%	3352 cd
70%	3911 cd
80%	4470 cd

Conditions:

Number of c-planes: 2

Candela at center: 5587 cd

ISO LUX DIAGRAM



3%	1,68 lx
5%	2,79 lx
10%	5,59 lx
30%	16,8 lx
50%	27,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 55,9 lx

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



Total lumen output:

3335 lm

Peak candela output:

21979 cd

Light quality:

CRI: 48,0

Color temperature:

5084 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow

Target:

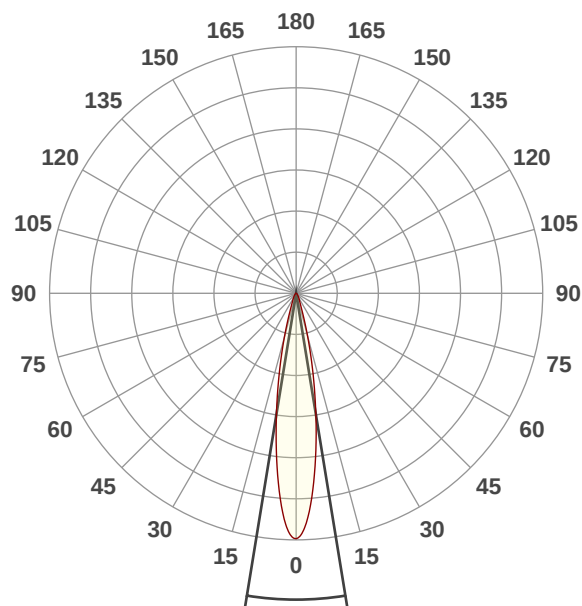
5000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:21:44

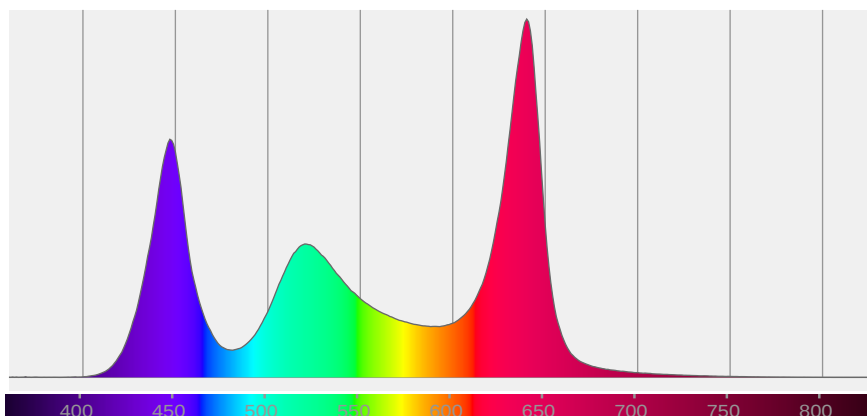


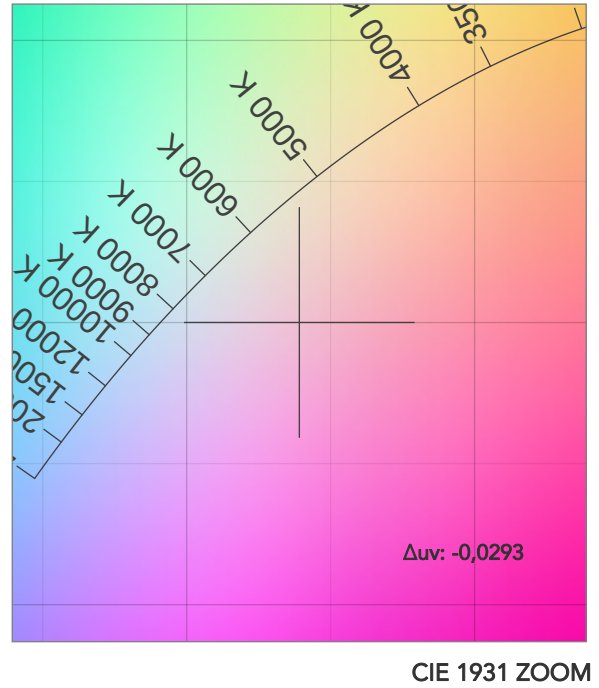
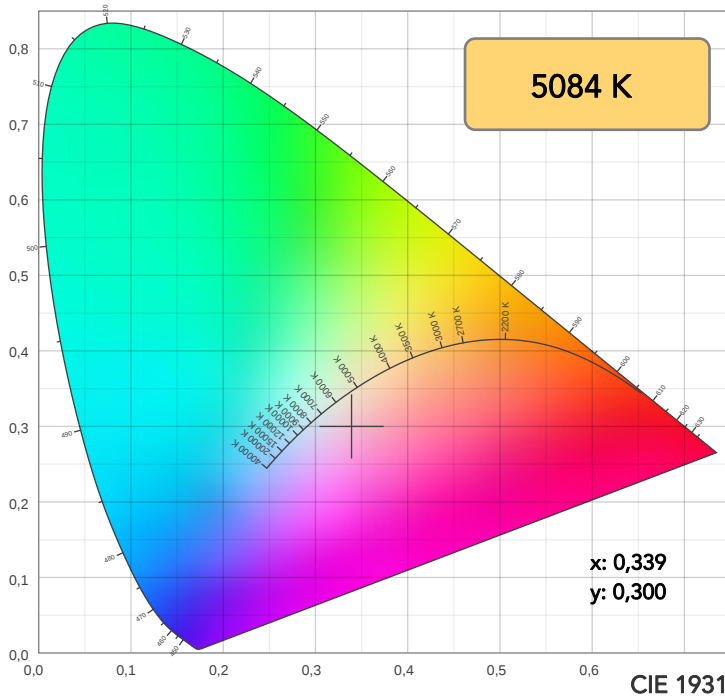
Beam angle 50%: 18,5°

Field angle 10%: 35,2°

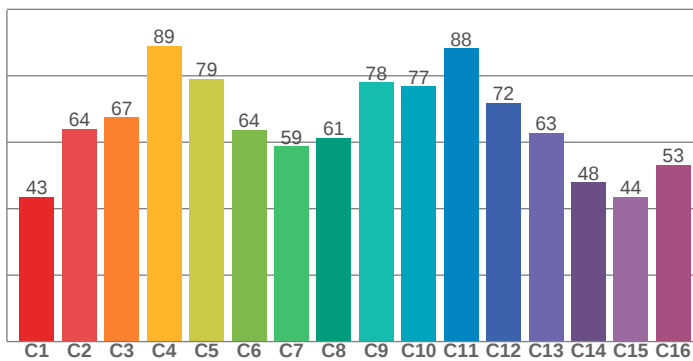
Cut off angle 2.5%: 56,1°

Spectra

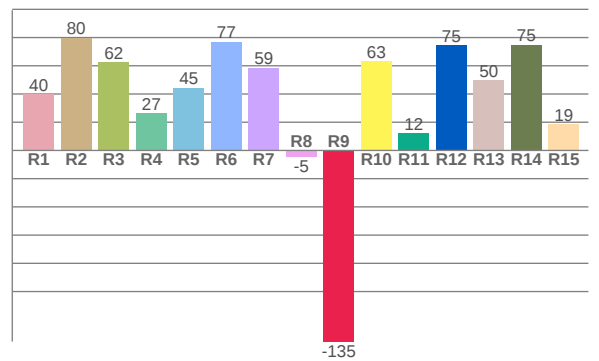




TM30: 67,5



CRI: 48,0 (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
39,7	80,0	62,5	26,6	44,5	77,1	58,6	-4,6	-135,5	63,1	12,0	74,5	49,6	75,0	18,5

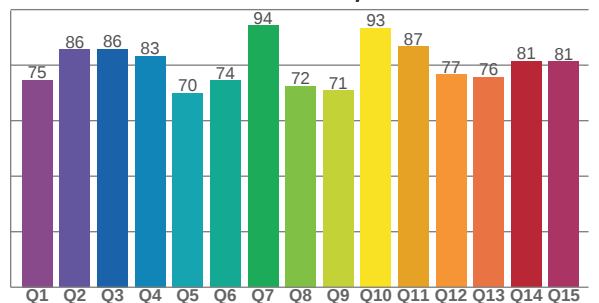
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
43,5	63,9	67,5	89,0	79,0	63,8	58,8	61,3	78,0	76,8	88,2	71,8	62,9	47,9	43,6	53,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,7	85,6	85,9	83,3	70,0	74,5	94,2	72,4	70,8	93,3	86,7	76,6	75,6	81,4	81,2

CQS: 79,1



COLOR PARAMETERS

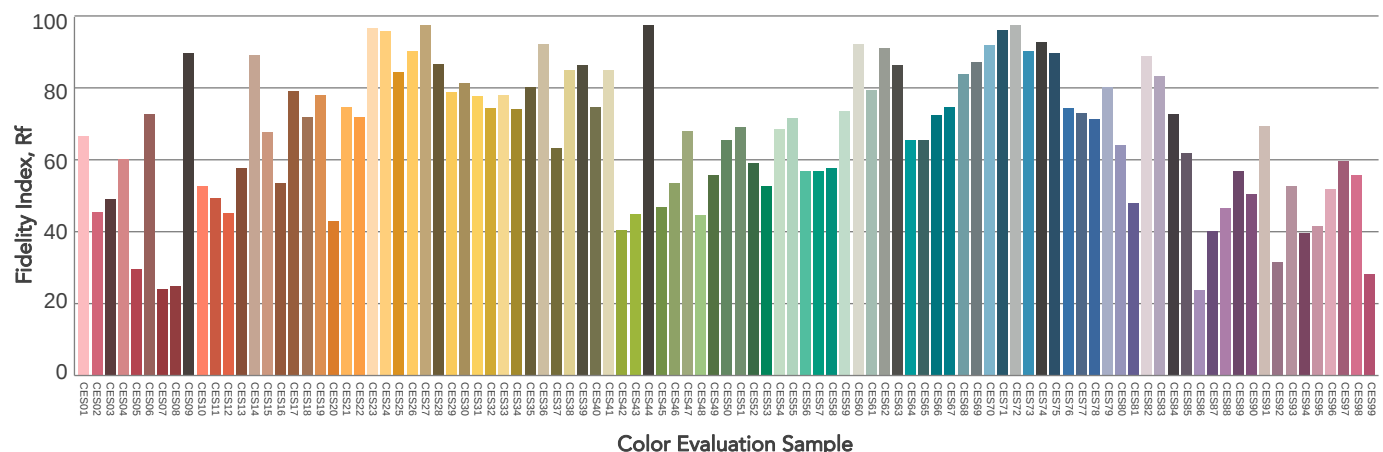
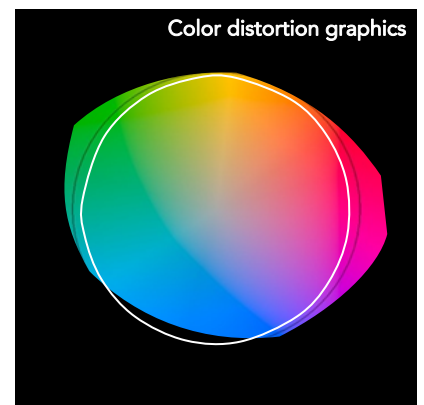
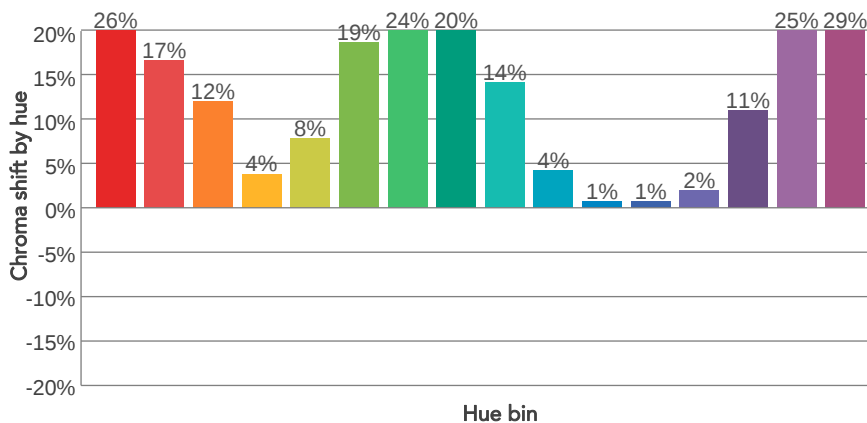
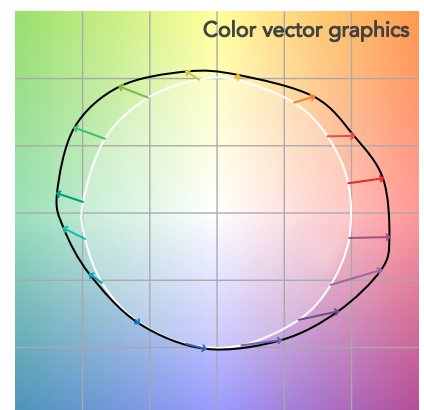
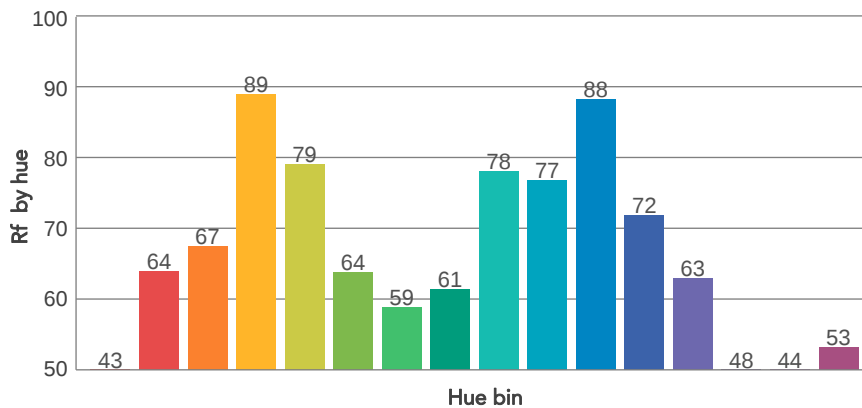
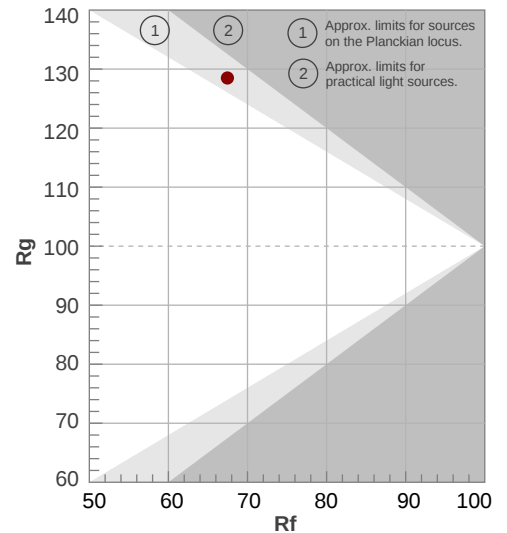
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5084 K	48,0	-135,5	67,5	128,5	79,1	45	0,339	0,300	-0,0293

TM30 DETAILS

Rf 67,5
Fidelity index Rf

Rg 128,5
Gammut index

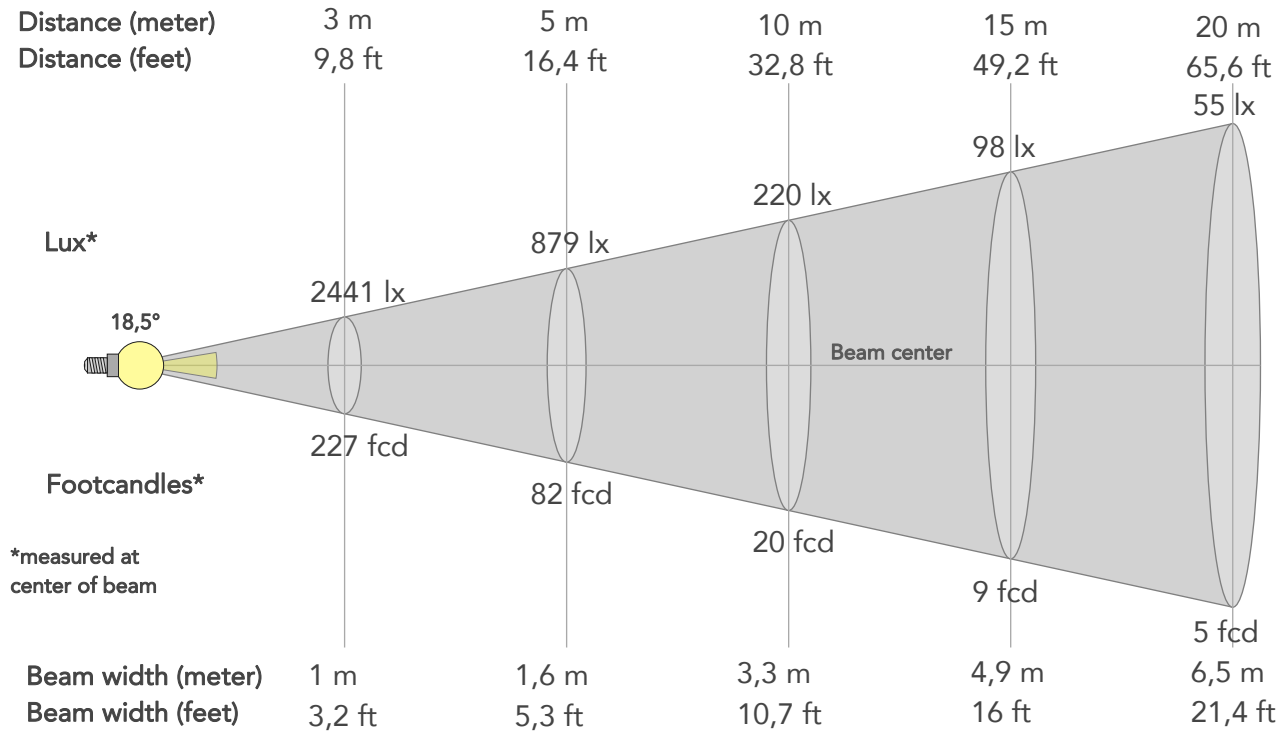
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	43	26%	-1%
2	64	17%	-11%
3	67	12%	-10%
4	89	4%	1%
5	79	8%	8%
6	64	19%	13%
7	59	24%	6%
8	61	20%	-3%
9	78	14%	-11%
10	77	4%	-10%
11	88	1%	3%
12	72	1%	15%
13	63	2%	30%
14	48	11%	28%
15	44	25%	30%
16	53	29%	7%



BEAM DETAILS



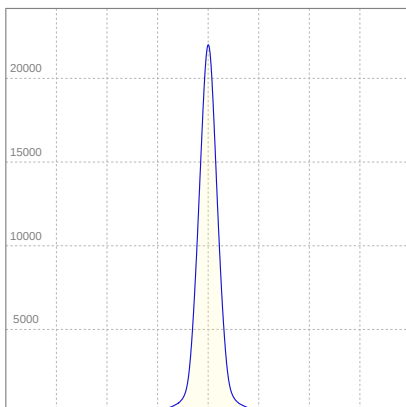
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,5°	35,2°	56,1°	99,5%	96,1%



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	21967lx	5492lx	2441lx	1373lx	879lx	391lx	220lx	98lx	55lx	35lx	24lx	14lx	9lx
Footcand.	2041fcd	510fcd	227fcd	128fcd	82fcd	36fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,6m	2,4m	3,3m	4,9m	6,5m	8,1m	9,8m	13m	16,3m
Beam wid.	1,1ft	2,2ft	3,2ft	4,3ft	5,3ft	8ft	10,7ft	16ft	21,4ft	26,7ft	32,1ft	42,7ft	53,4ft

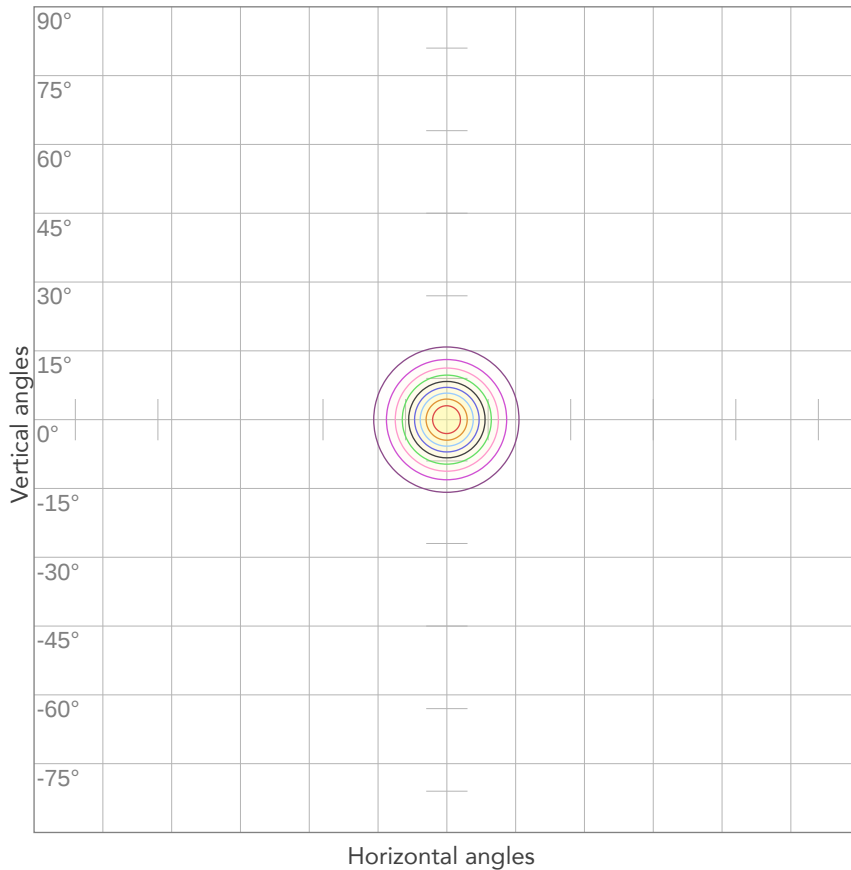
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,557A	119,3W	28lm/W

ISO CANDELA DIAGRAM



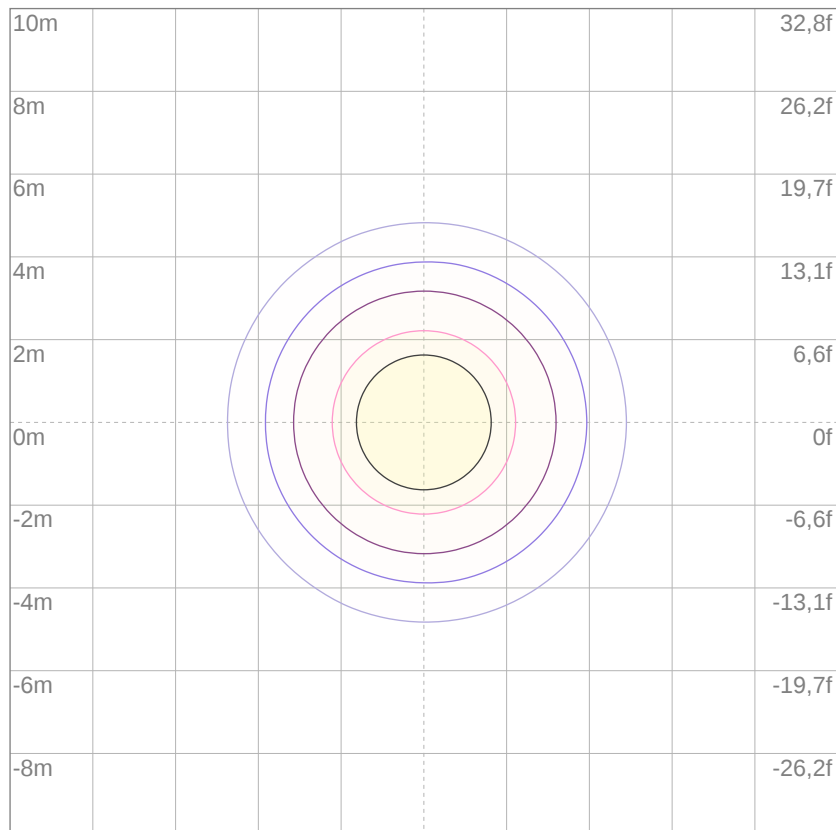
10%	2197 cd
20%	4393 cd
30%	6590 cd
40%	8787 cd
50%	10984 cd
60%	13180 cd
70%	15377 cd
80%	17574 cd

Conditions:

Number of c-planes: 2

Candela at center: 21967 cd

ISO LUX DIAGRAM



3%	6,59 lx
5%	11,0 lx
10%	22,0 lx
30%	65,9 lx
50%	110 lx

Conditions:

Number of c-planes: 2

Lux at center: 220 lx

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



Total lumen output:

3250 lm

Peak candela output:

4616 cd

Light quality:

CRI: 47,8

Color temperature:

5124 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide

Target:

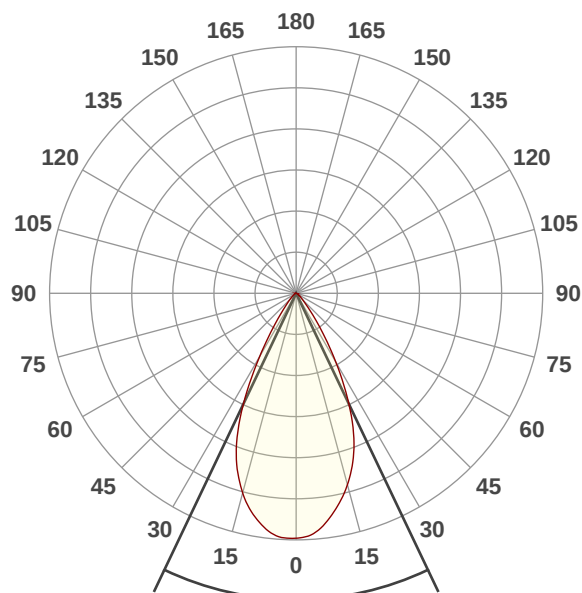
5000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:49:10

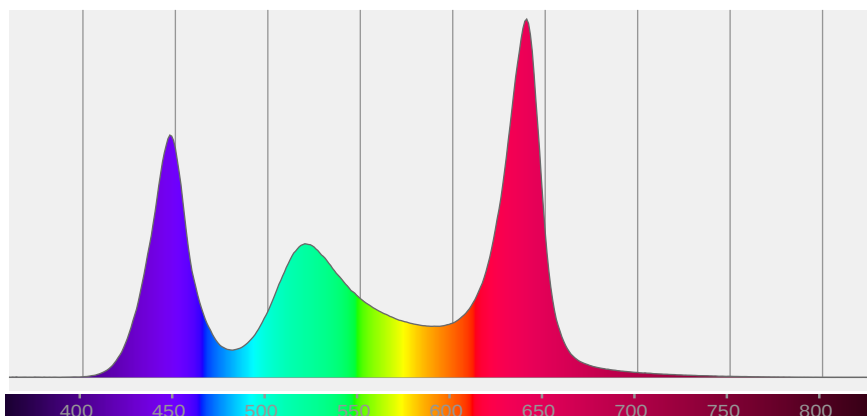


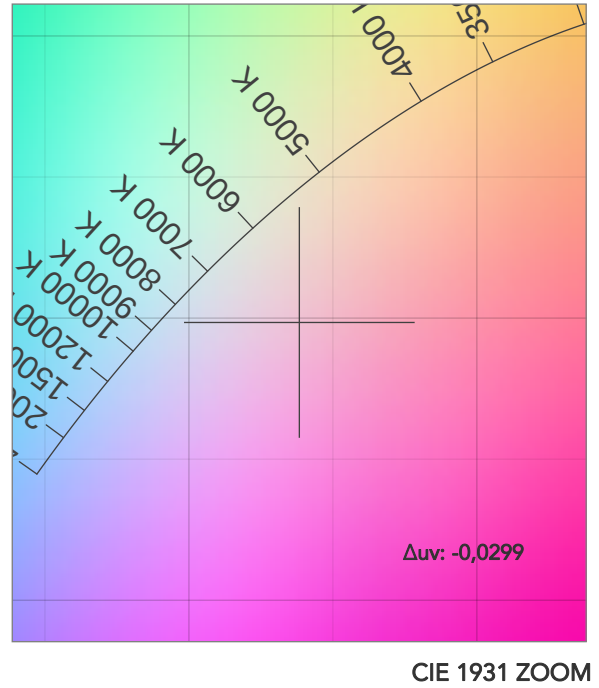
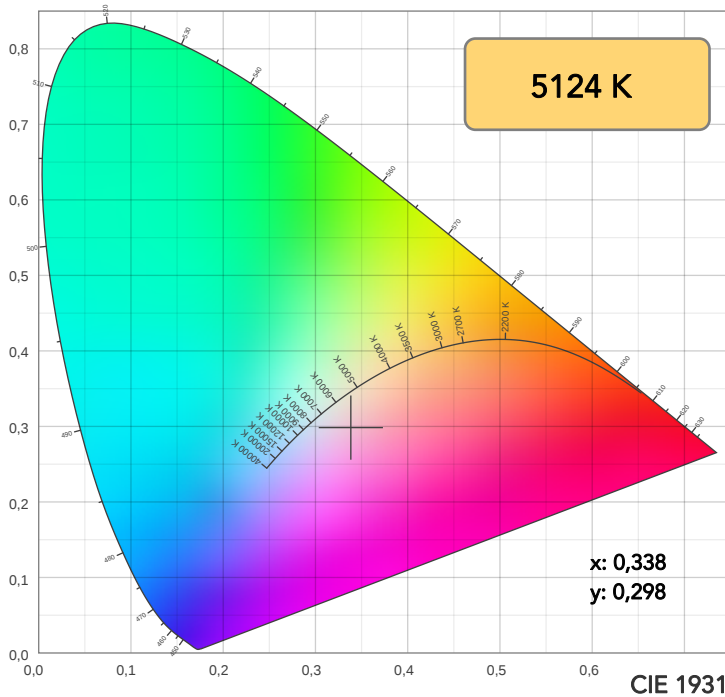
Beam angle 50%: 51°

Field angle 10%: 75,4°

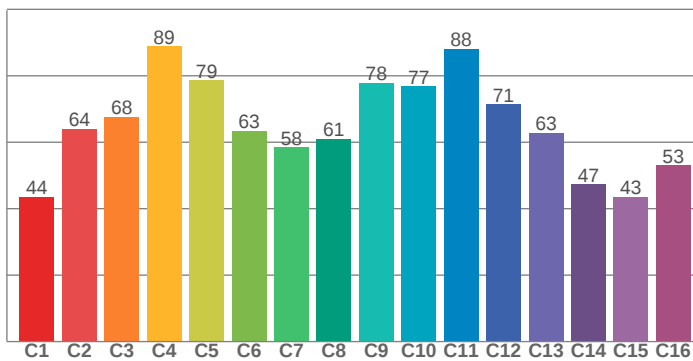
Cut off angle 2.5%: 97,9°

Spectra

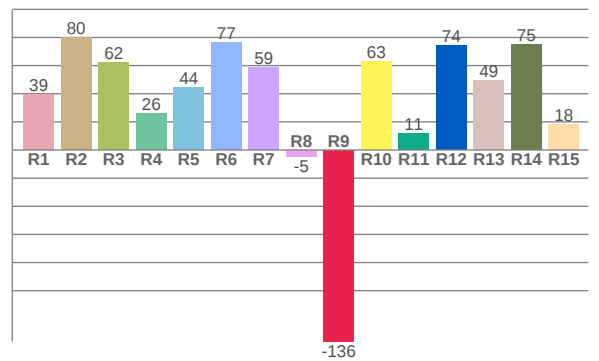




TM30: 67,3



CRI: 47,8 (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
39,3	79,7	62,3	26,1	44,2	76,7	58,6	-4,7	-136,2	62,8	11,5	74,3	49,2	74,8	18,0

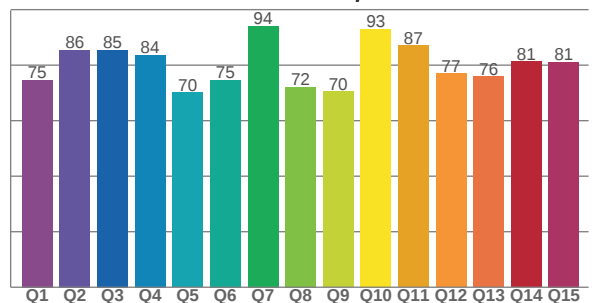
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
43,5	64,0	67,7	88,8	78,6	63,3	58,4	61,0	77,9	76,9	88,1	71,5	62,8	47,3	43,5	53,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,7	85,5	85,5	83,7	70,1	74,7	94,1	72,2	70,5	93,0	87,1	77,0	75,9	81,2	81,1

CQS: 79,1



COLOR PARAMETERS

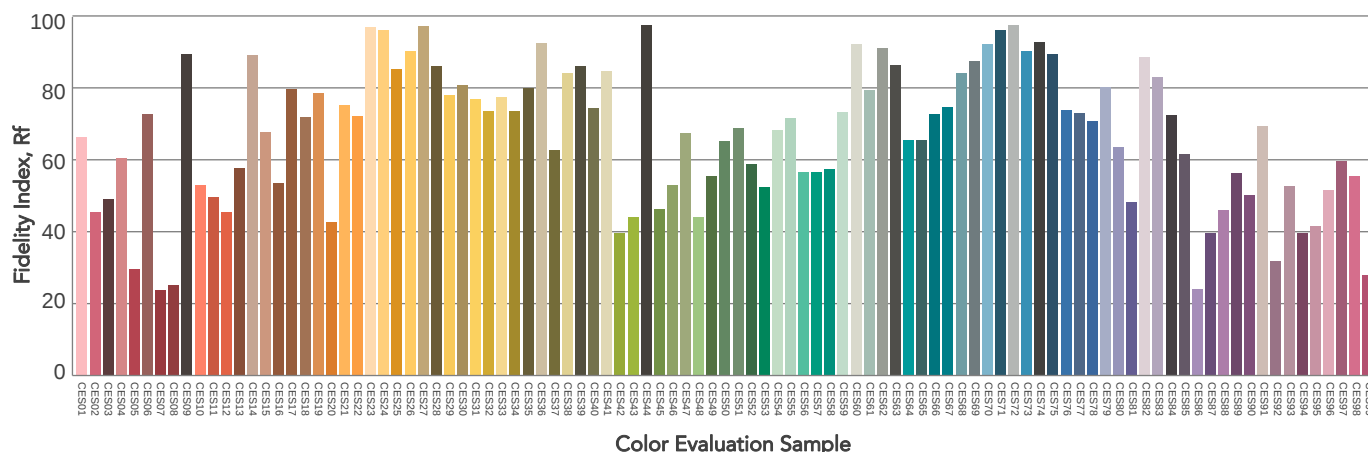
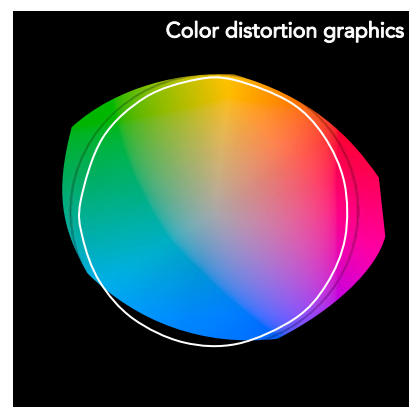
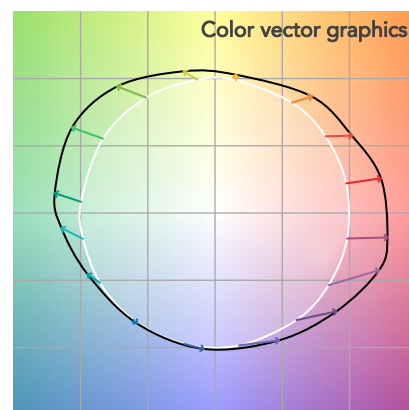
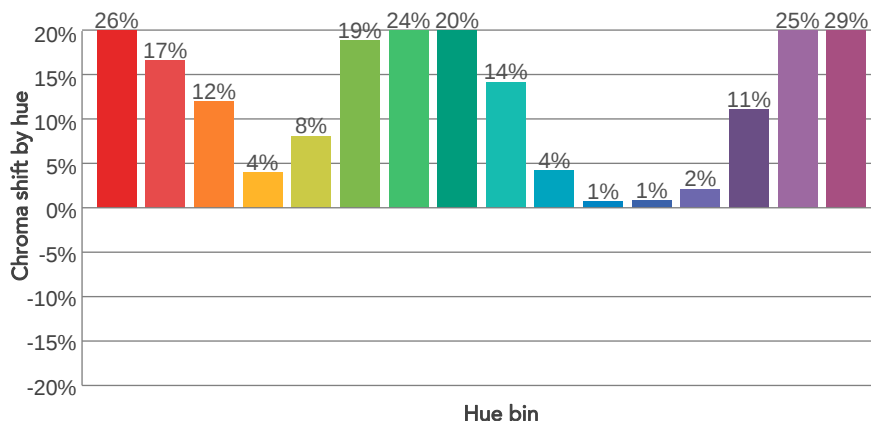
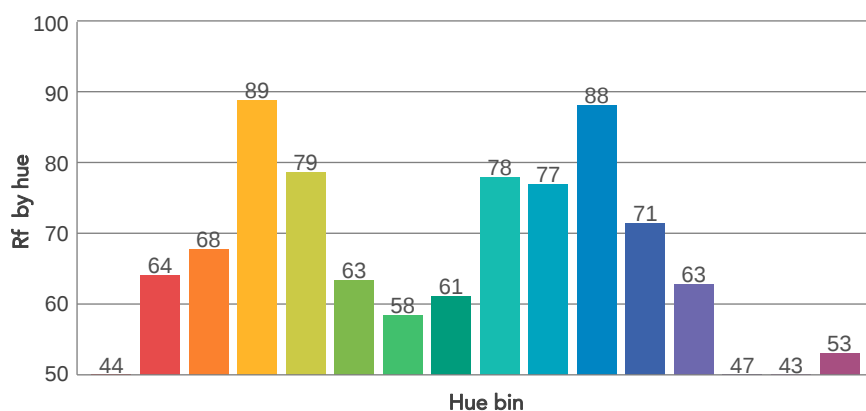
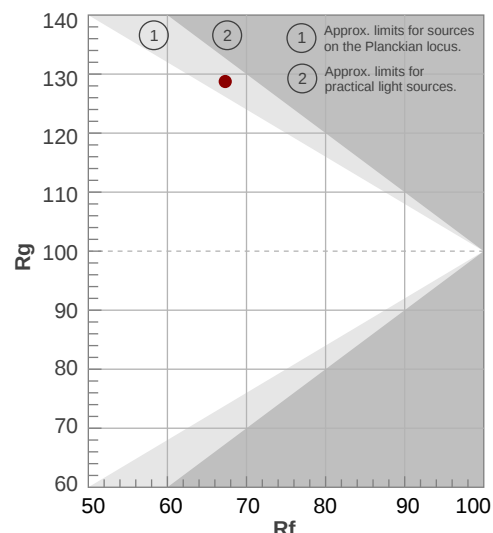
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5124 K	47,8	-136,2	67,3	128,7	79,1	45	0,338	0,298	-0,0299

TM30 DETAILS

Rf 67,3
Fidelity index Rf

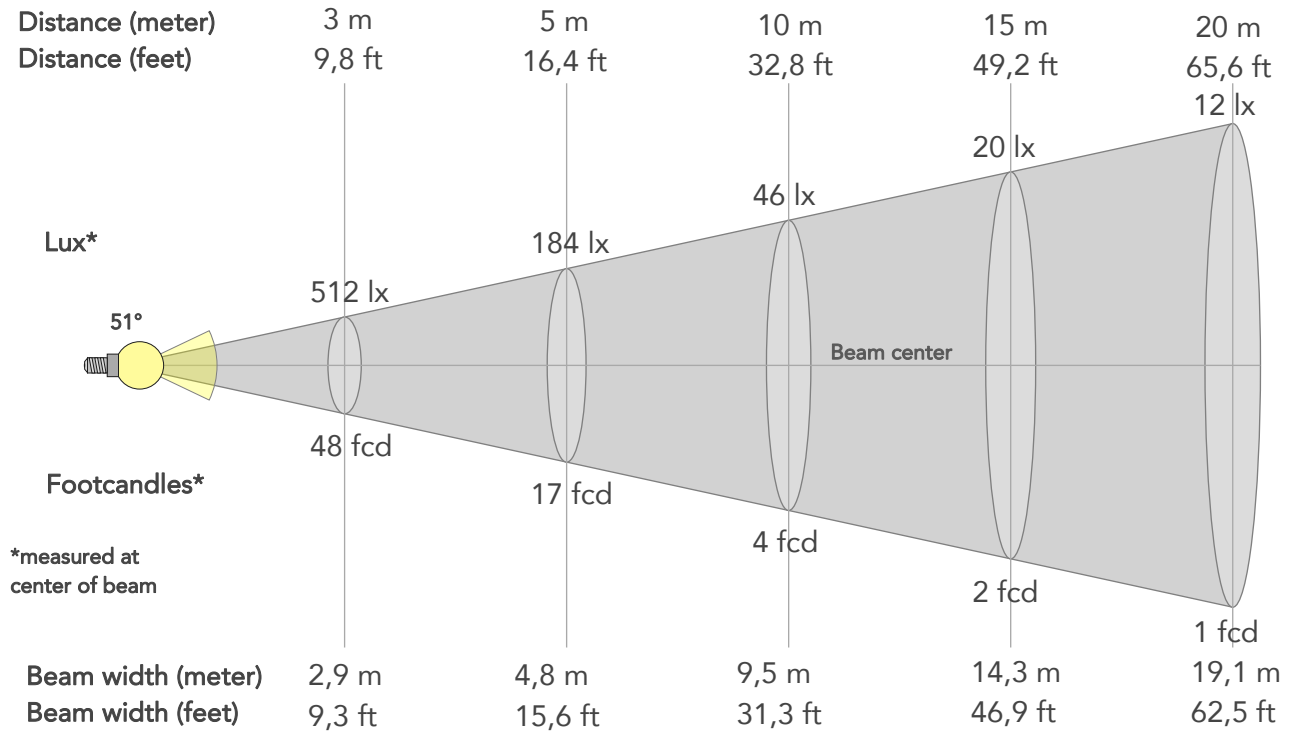
Rg 128,7
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	44	26%	-1%
2	64	17%	-11%
3	68	12%	-10%
4	89	4%	1%
5	79	8%	9%
6	63	19%	13%
7	58	24%	6%
8	61	20%	-2%
9	78	14%	-11%
10	77	4%	-10%
11	88	1%	4%
12	71	1%	15%
13	63	2%	30%
14	47	11%	28%
15	43	25%	30%
16	53	29%	7%



BEAM DETAILS

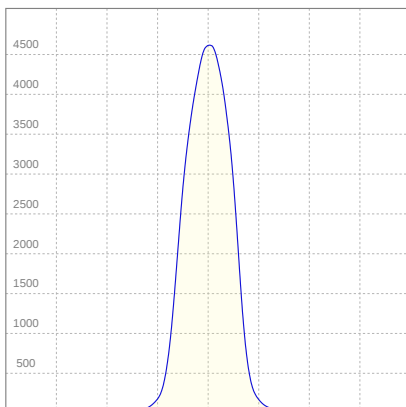
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51°	75,4°	97,9°	99,2%	95,7%



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	4610lx	1153lx	512lx	288lx	184lx	82lx	46lx	20lx	12lx	7lx	5lx	3lx	2lx
Footcand.	428fcd	107fcd	48fcd	27fcd	17fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1m	1,9m	2,9m	3,8m	4,8m	7,1m	9,5m	14,3m	19,1m	23,8m	28,6m	38,1m	47,6m
Beam wid.	3,1ft	6,3ft	9,3ft	12,5ft	15,6ft	23,4ft	31,3ft	46,9ft	62,5ft	78,1ft	93,8ft	125ft	156,3ft

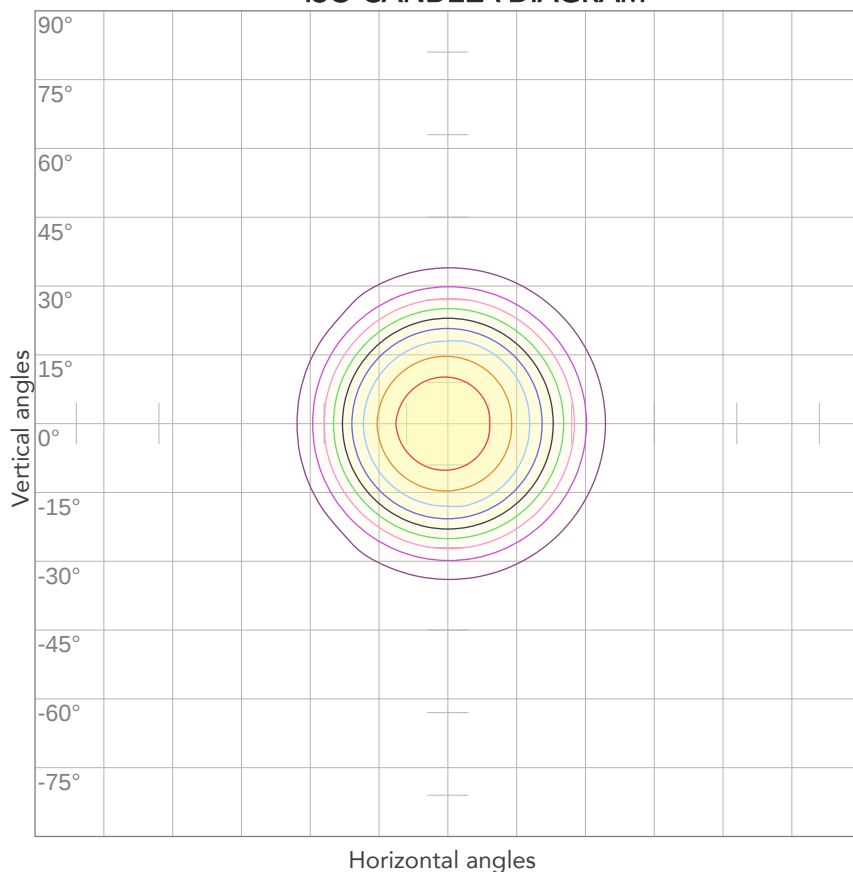
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,555A	119,2W	27lm/W

ISO CANDELA DIAGRAM



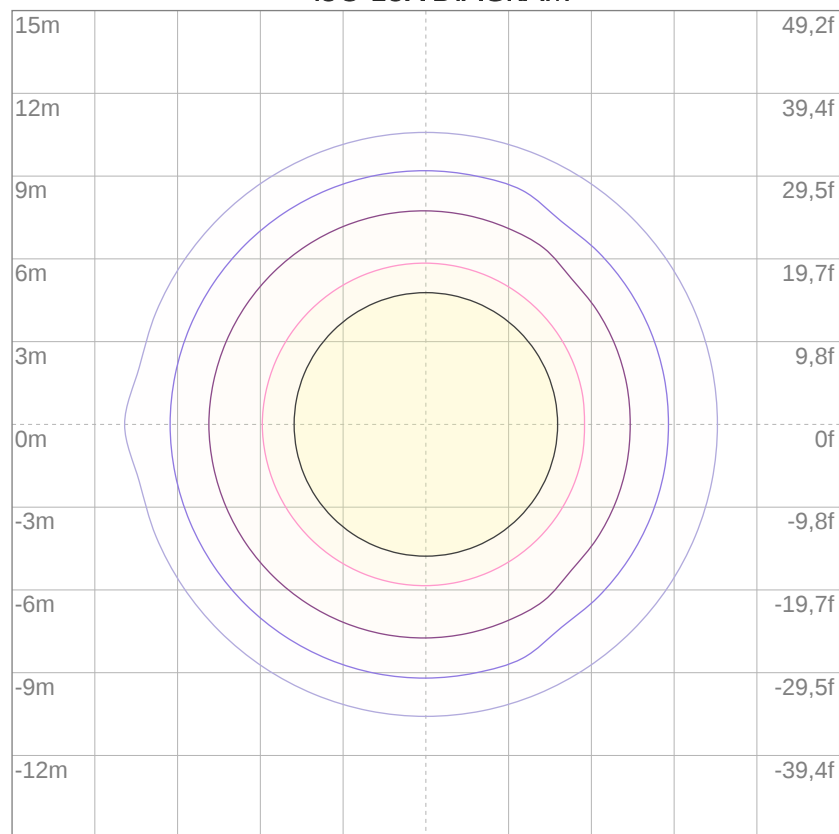
10%	461 cd
20%	922 cd
30%	1383 cd
40%	1844 cd
50%	2305 cd
60%	2766 cd
70%	3227 cd
80%	3688 cd

Conditions:

Number of c-planes: 2

Candela at center: 4610 cd

ISO LUX DIAGRAM



3%	1,38 lx
5%	2,31 lx
10%	4,61 lx
30%	13,8 lx
50%	23,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 46,1 lx

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



Total lumen output:

2996 lm

Peak candela output:

5502 cd

Light quality:

CRI: 50,4

Color temperature:

5969 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Medium

Target:

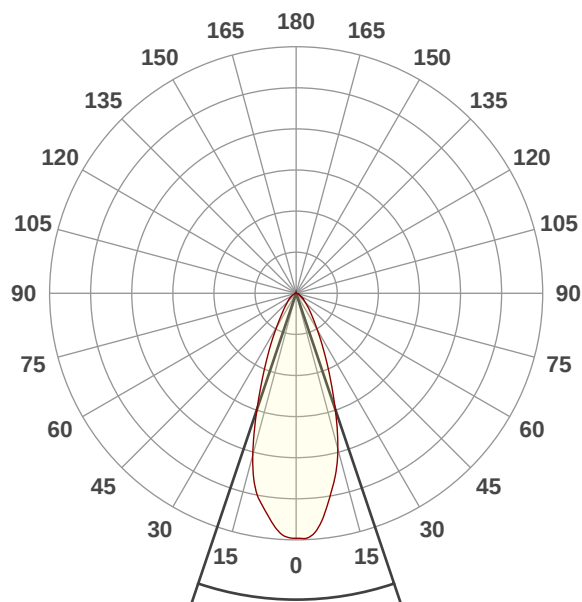
6000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:15:14

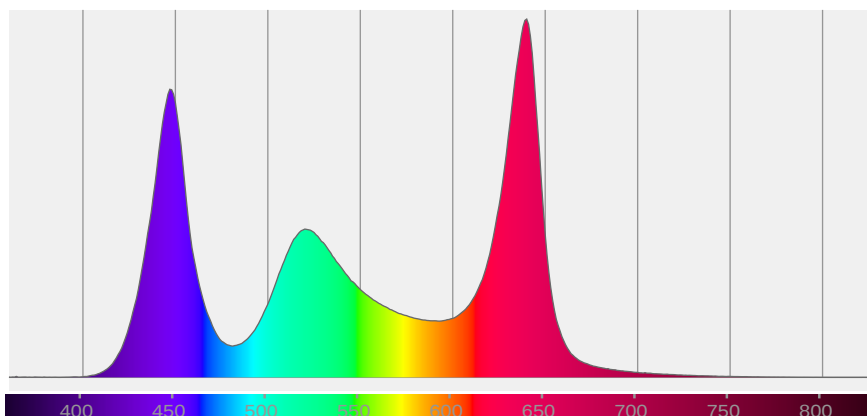


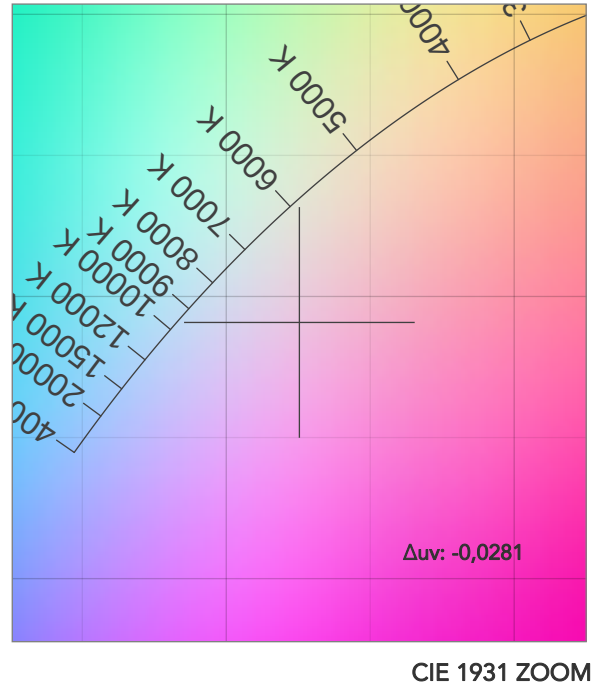
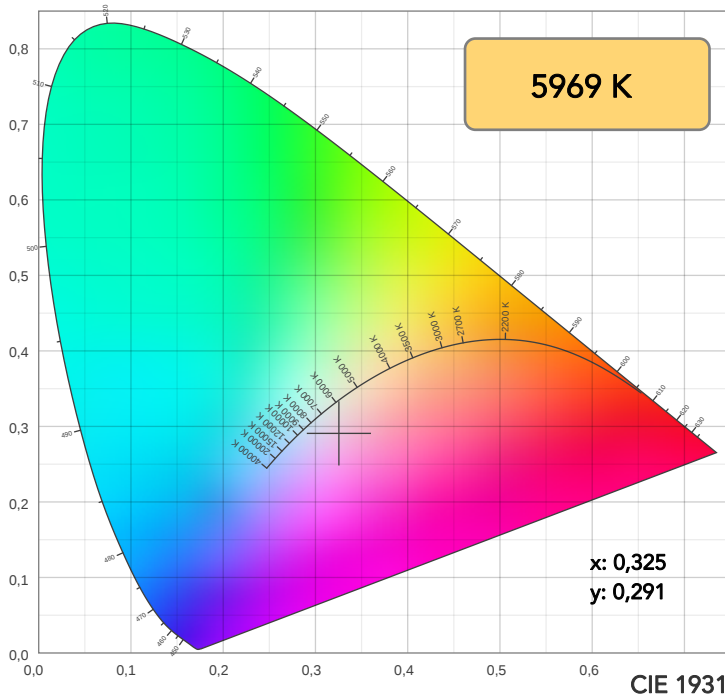
Beam angle 50%: 37,3°

Field angle 10%: 71,8°

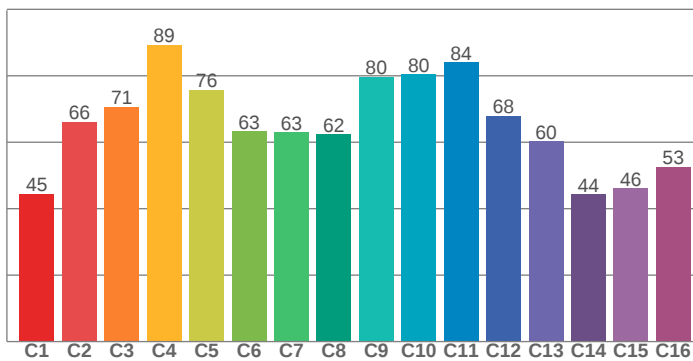
Cut off angle 2.5%: 113,1°

Spectra

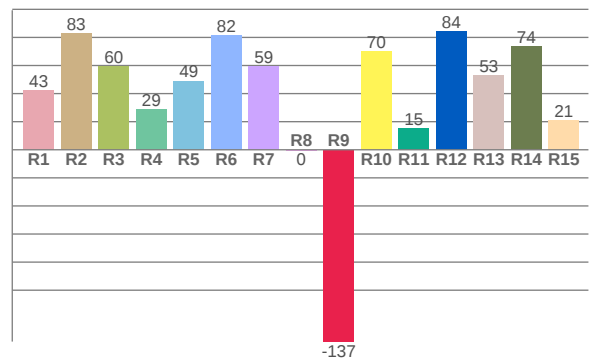




TM30: 67,3



CRI: 50,4 (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
42,6	82,7	59,7	28,9	49,1	81,6	59,4	-0,4	-136,6	69,9	15,5	84,0	52,9	73,6	21,0

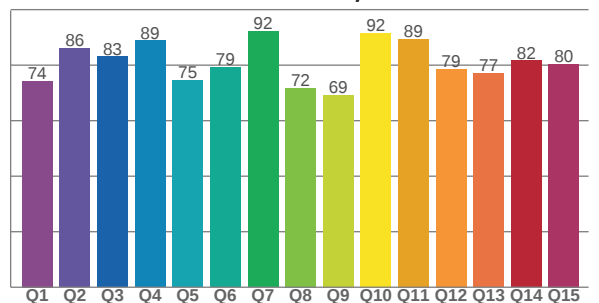
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
44,5	66,0	70,6	89,3	75,8	63,3	63,0	62,4	79,7	80,4	84,1	67,9	60,2	44,4	46,1	52,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,4	86,1	83,1	88,8	74,6	79,2	92,2	71,8	69,3	91,5	89,4	78,7	77,1	81,6	80,4

CQS: 79,9



COLOR PARAMETERS

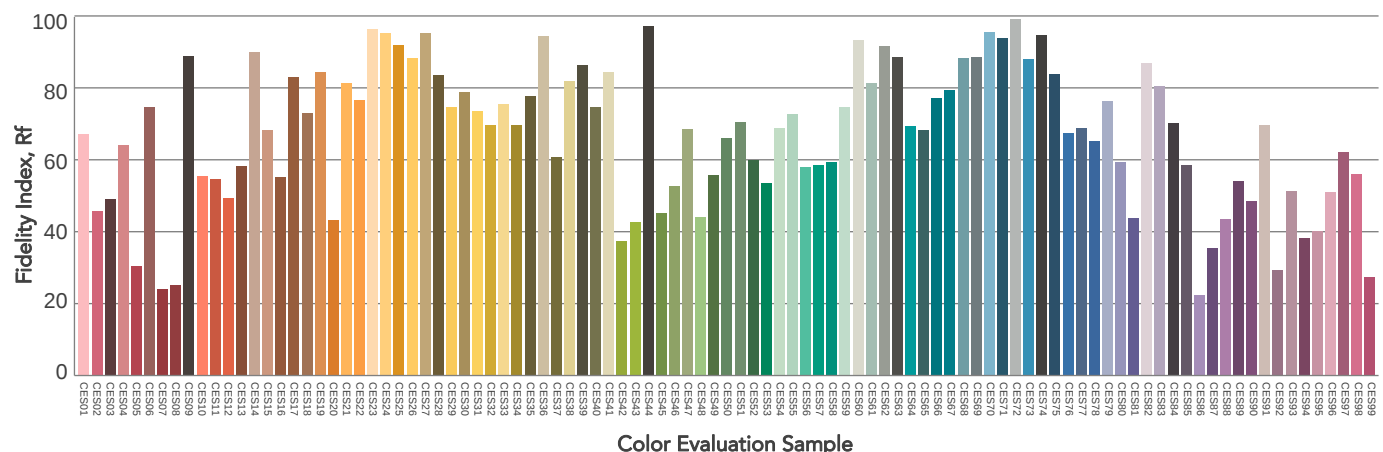
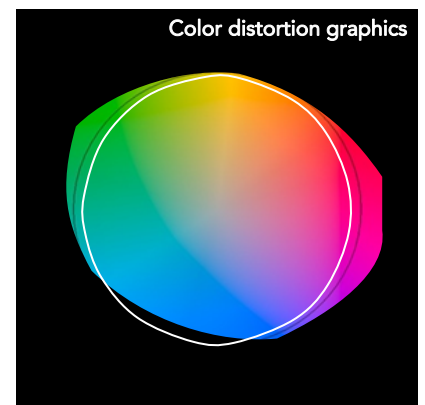
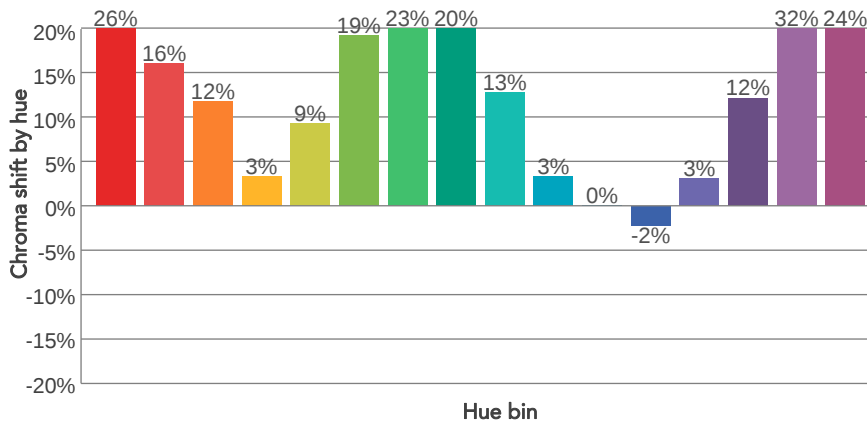
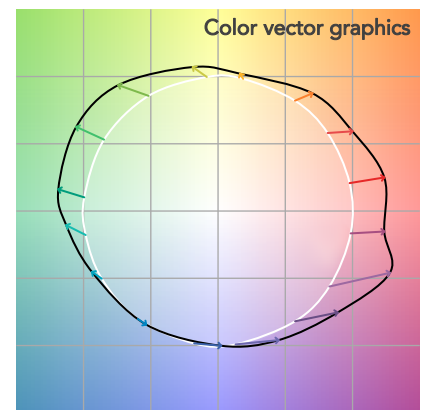
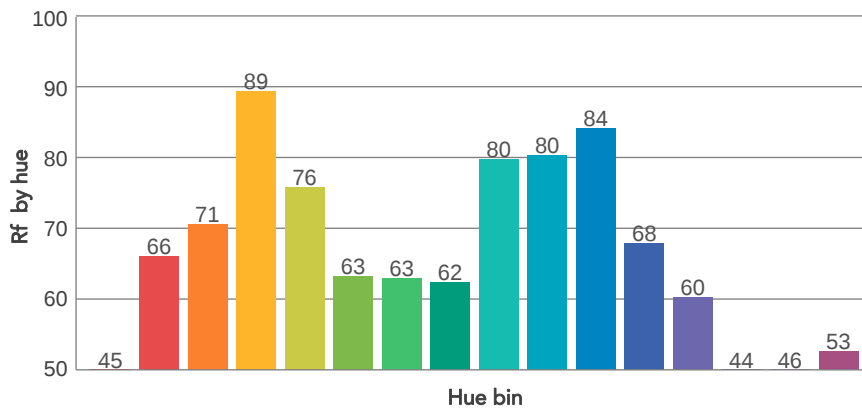
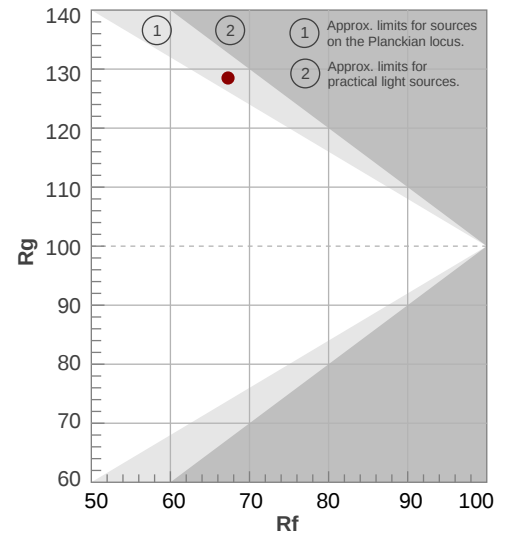
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5969 K	50,4	-136,6	67,3	128,5	79,9	47	0,325	0,291	-0,0281

TM30 DETAILS

Rf 67,3
Fidelity index Rf

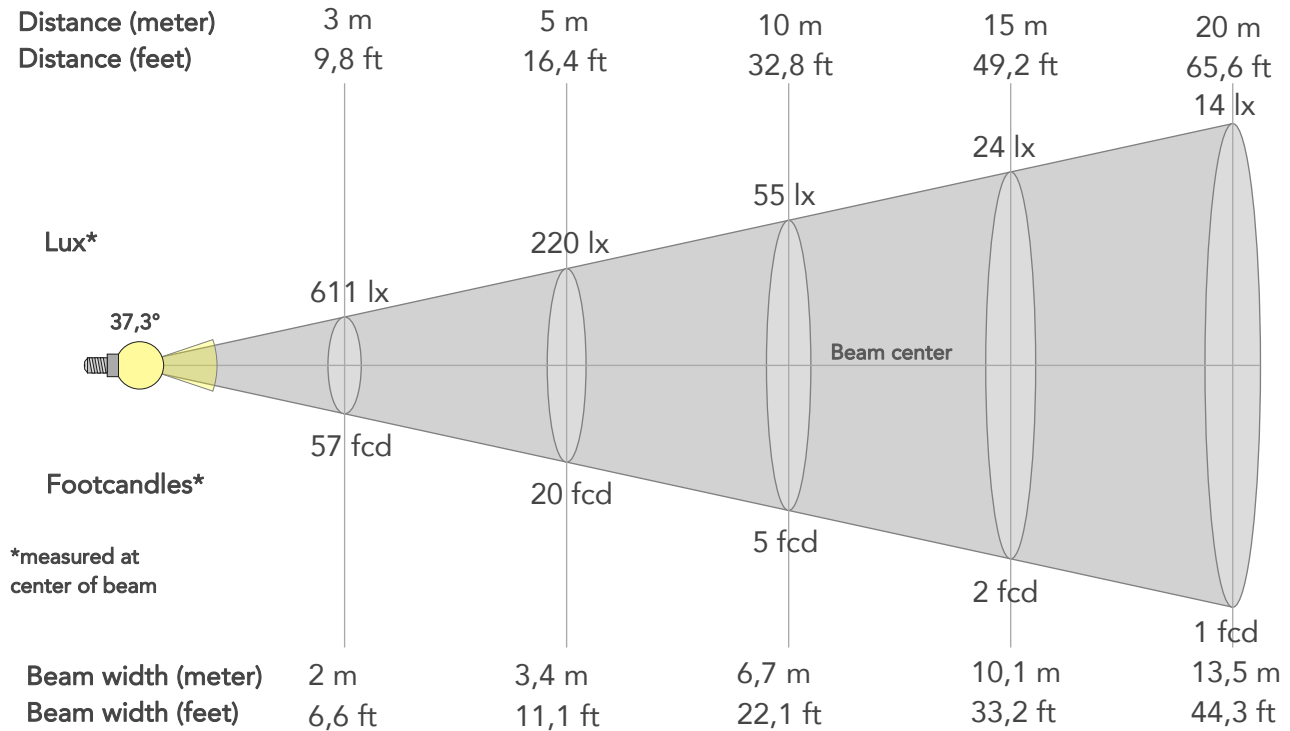
Rg 128,5
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	45	26%	-1%
2	66	16%	-9%
3	71	12%	-8%
4	89	3%	3%
5	76	9%	9%
6	63	19%	14%
7	63	23%	4%
8	62	20%	-2%
9	80	13%	-10%
10	80	3%	-8%
11	84	0%	7%
12	68	-2%	20%
13	60	3%	32%
14	44	12%	30%
15	46	32%	34%
16	53	24%	6%



BEAM DETAILS

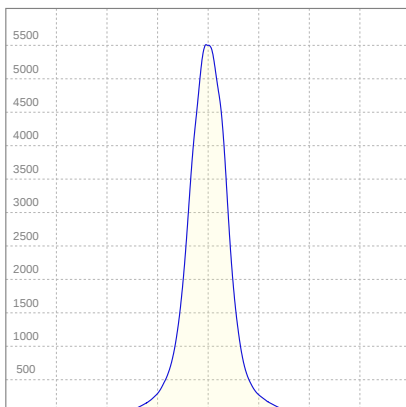
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,3°	71,8°	113,1°	97,3%	89,4%



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	5498lx	1375lx	611lx	344lx	220lx	98lx	55lx	24lx	14lx	9lx	6lx	3lx	2lx
Footcand.	511fcd	128fcd	57fcd	32fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,7m	3,4m	5,1m	6,7m	10,1m	13,5m	16,9m	20,2m	27m	33,7m
Beam wid.	2,2ft	4,5ft	6,6ft	8,8ft	11,1ft	16,6ft	22,1ft	33,2ft	44,3ft	55,3ft	66,4ft	88,5ft	110,7ft

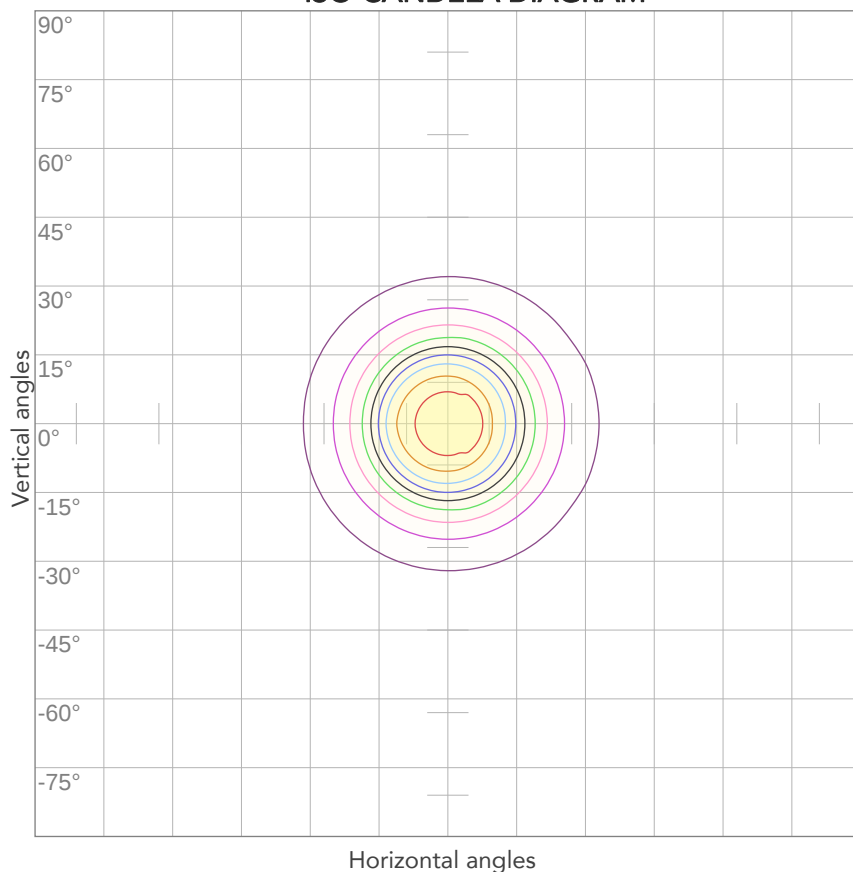
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,544A	116,8W	26lm/W

ISO CANDELA DIAGRAM



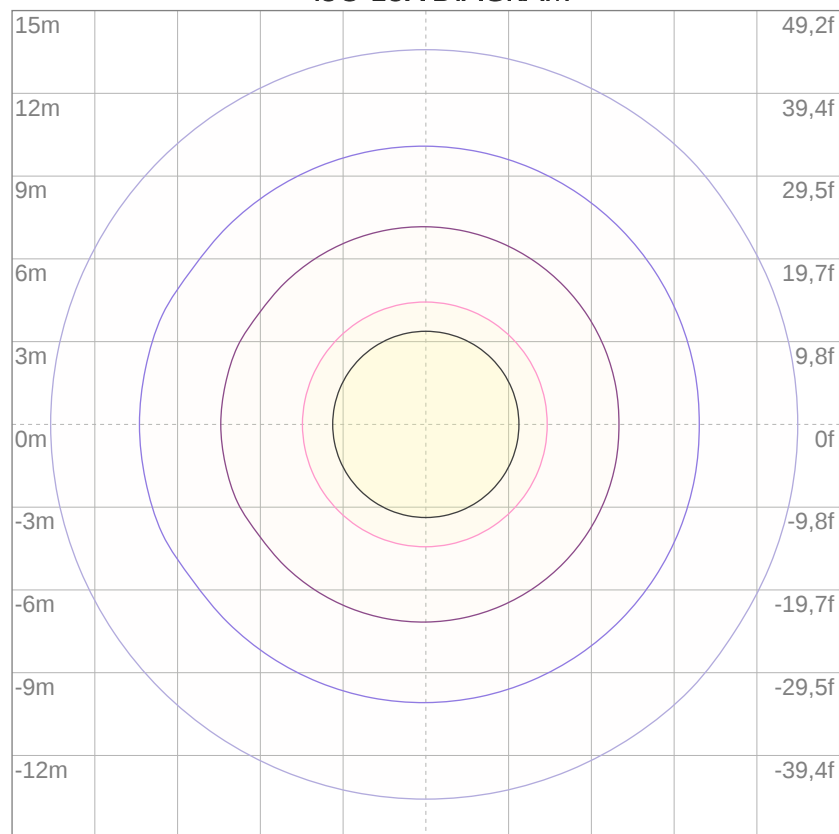
10%	550 cd
20%	1100 cd
30%	1649 cd
40%	2199 cd
50%	2749 cd
60%	3299 cd
70%	3849 cd
80%	4399 cd

Conditions:

Number of c-planes: 2

Candela at center: 5498 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 55,0 lx

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



Total lumen output:

3265 lm

Peak candela output:

21617 cd

Light quality:

CRI: 49,8

Color temperature:

5891 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Narrow

Target:

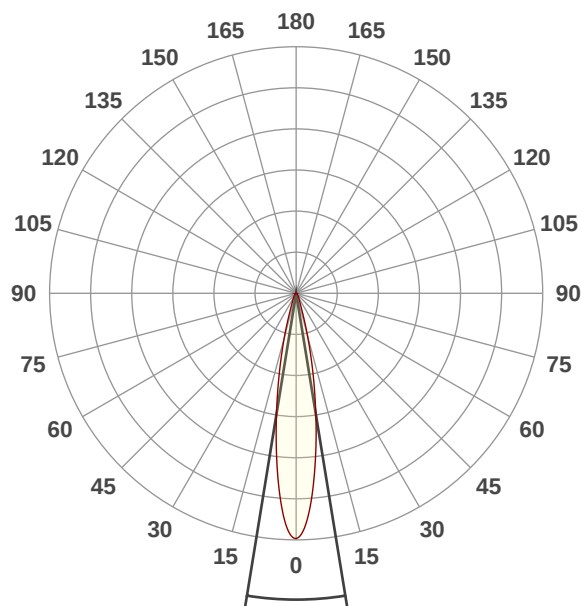
6000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 10:37:11

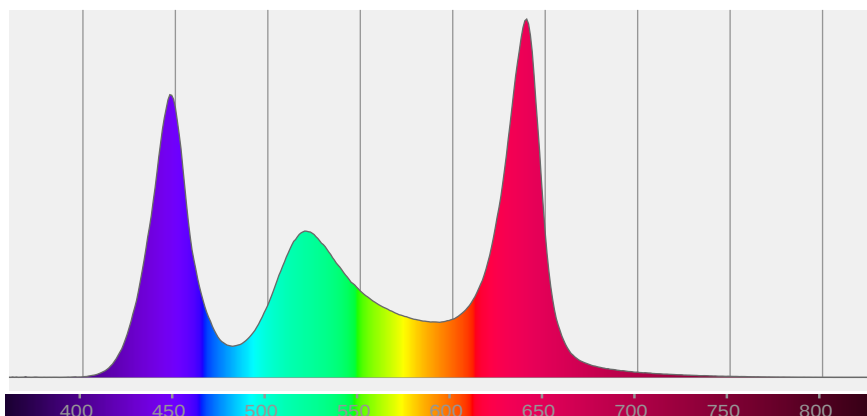


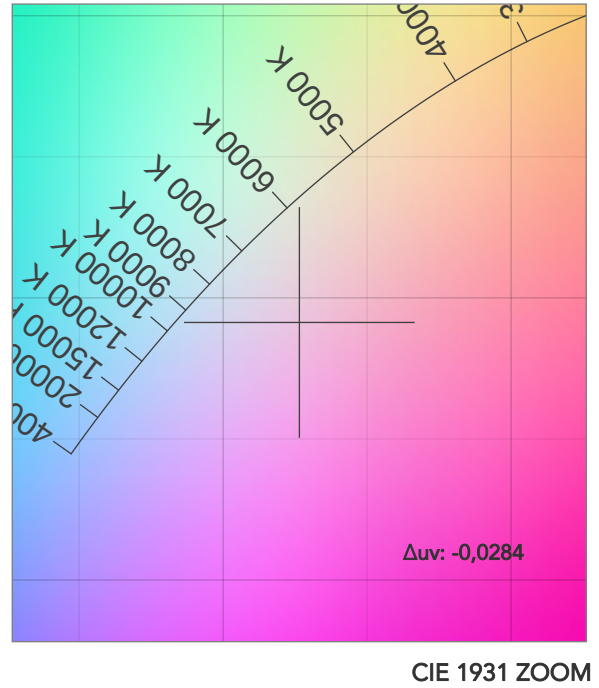
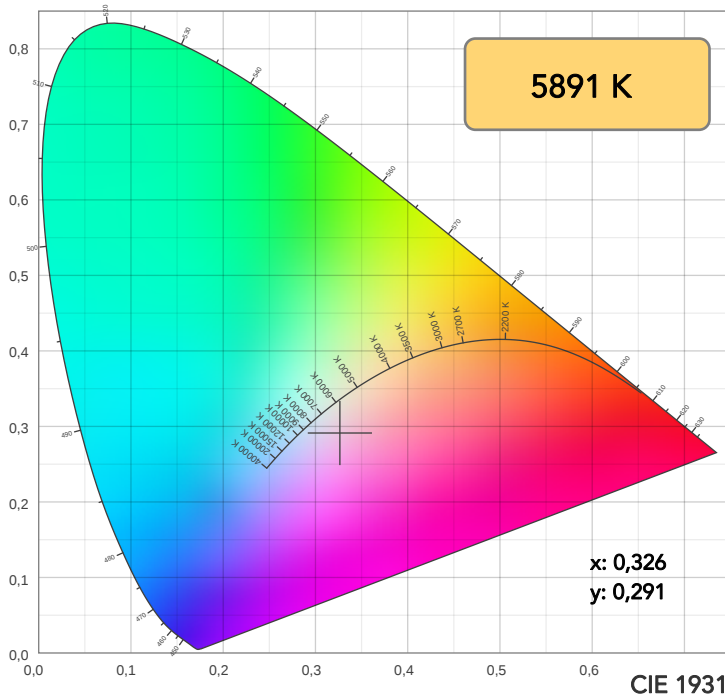
Beam angle 50%: 18,5°

Field angle 10%: 35,2°

Cut off angle 2.5%: 55,7°

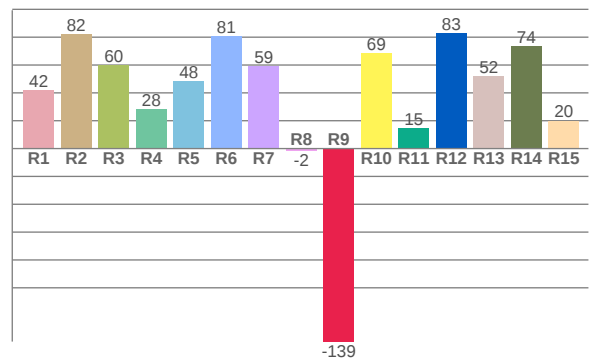
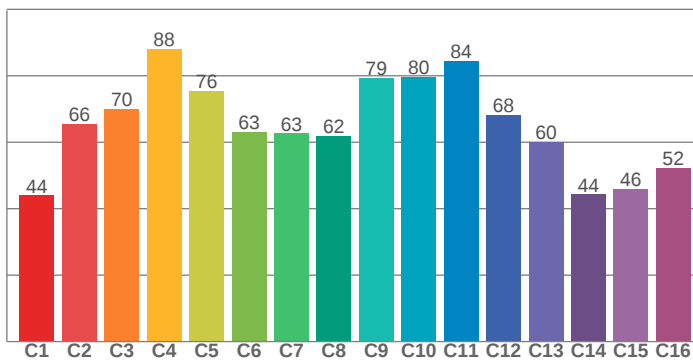
Spectra





TM30: 67,1

CRI: 49,8 (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
41,8	82,1	59,8	28,2	48,2	80,9	59,1	-1,7	-138,6	68,7	14,6	82,9	52,1	73,6	20,1

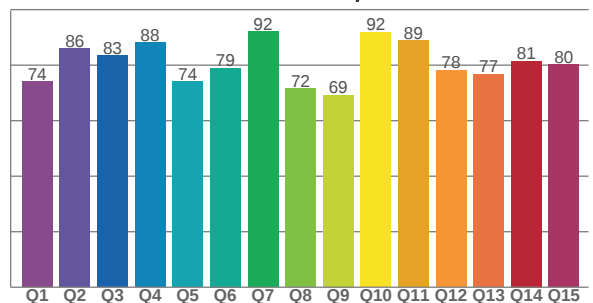
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
44,0	65,6	70,0	88,1	75,5	63,1	62,7	61,9	79,3	79,8	84,4	68,2	60,2	44,3	45,9	52,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,1	86,0	83,5	88,1	74,1	78,9	92,1	71,5	69,3	91,9	88,8	78,1	76,7	81,4	80,2

CQS: 79,7



COLOR PARAMETERS

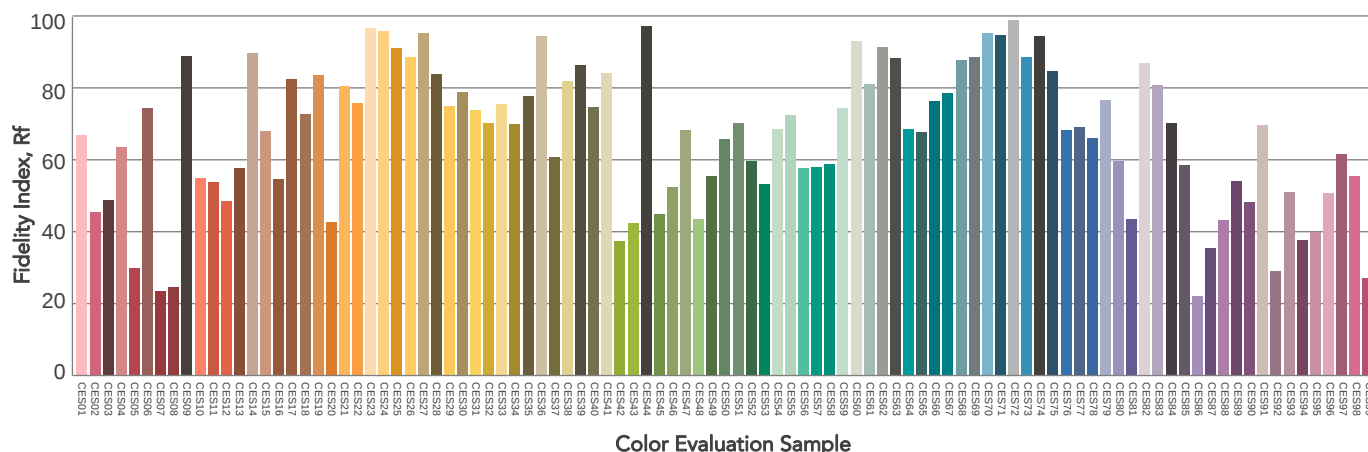
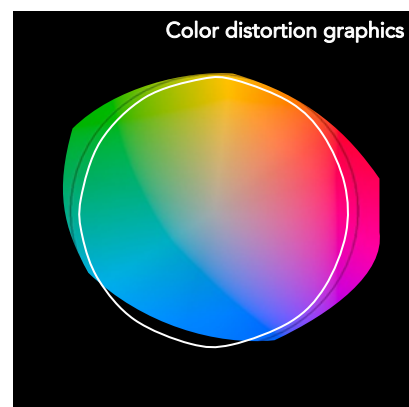
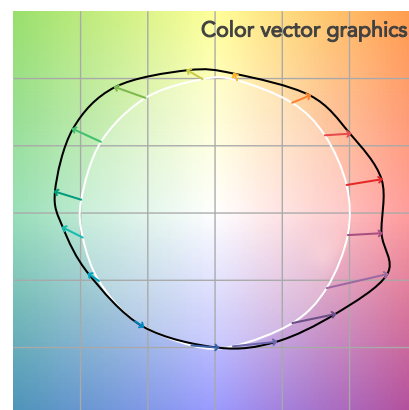
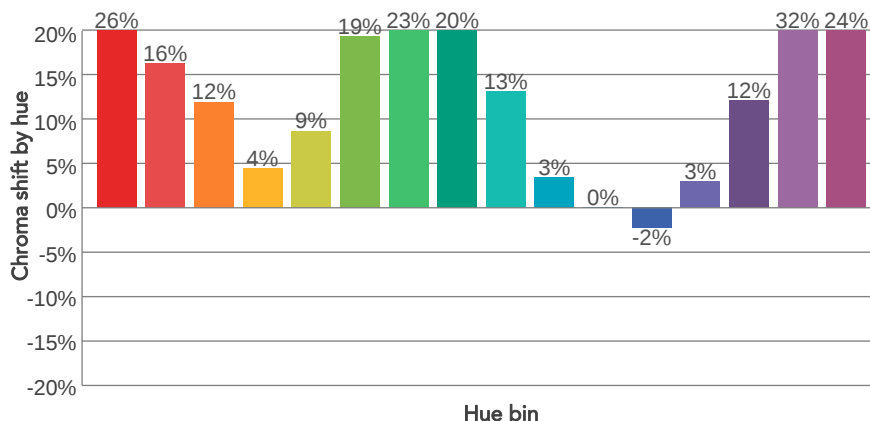
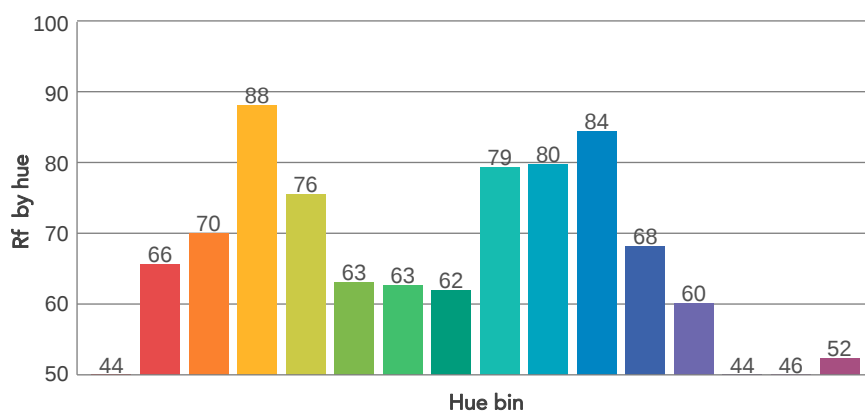
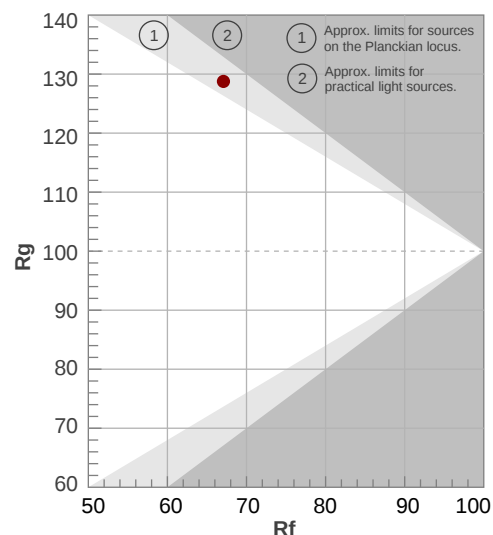
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5891 K	49,8	-138,6	67,1	128,8	79,7	46	0,326	0,291	-0,0284

TM30 DETAILS

Rf 67,1
Fidelity index Rf

Rg 128,8
Gammut index

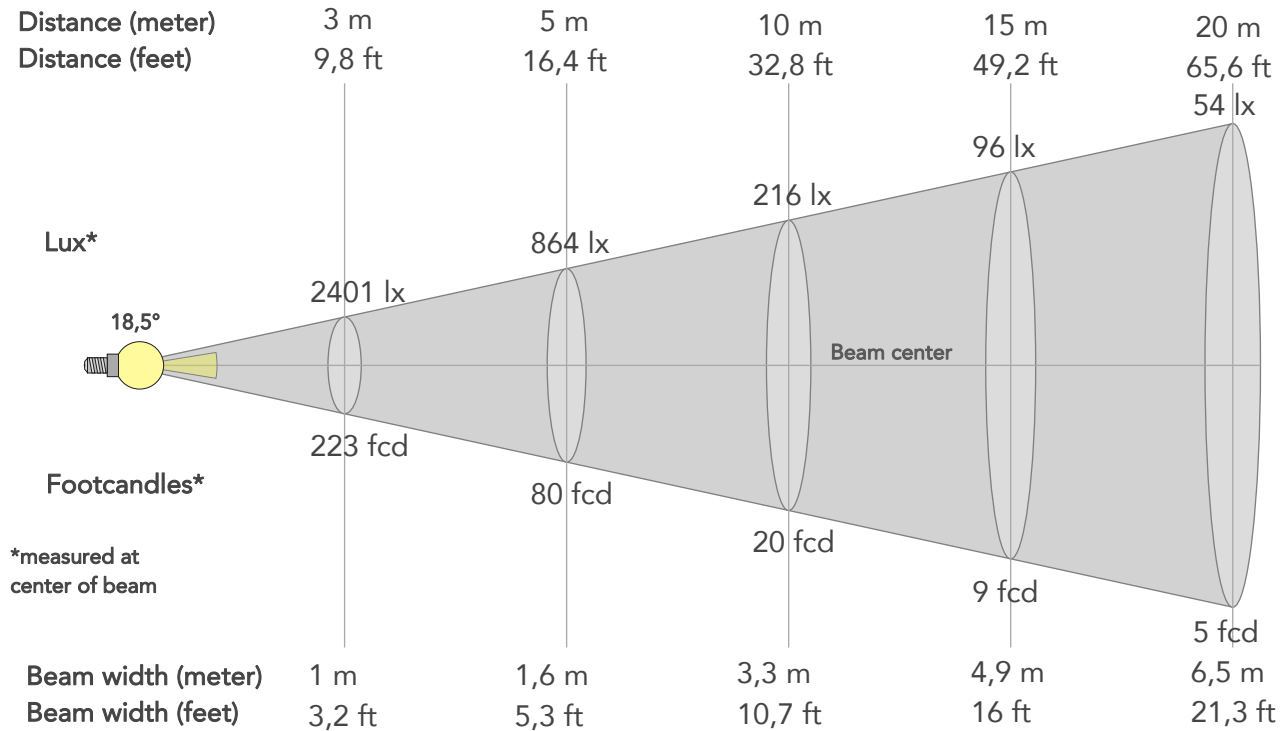
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	44	26%	-1%
2	66	16%	-9%
3	70	12%	-8%
4	88	4%	3%
5	76	9%	10%
6	63	19%	14%
7	63	23%	4%
8	62	20%	-2%
9	79	13%	-10%
10	80	3%	-9%
11	84	0%	7%
12	68	-2%	20%
13	60	3%	32%
14	44	12%	30%
15	46	32%	34%
16	52	24%	6%



BEAM DETAILS



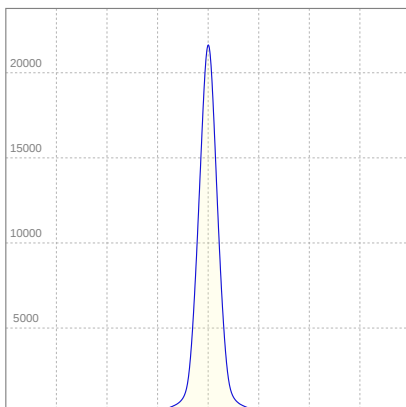
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,5°	35,2°	55,7°	99,5%	96,2%



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	21610lx	5403lx	2401lx	1351lx	864lx	384lx	216lx	96lx	54lx	35lx	24lx	14lx	9lx
Footcand.	2008fcd	502fcd	223fcd	125fcd	80fcd	36fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,6m	2,4m	3,3m	4,9m	6,5m	8,1m	9,8m	13m	16,3m
Beam wid.	1,1ft	2,1ft	3,2ft	4,3ft	5,3ft	8ft	10,7ft	16ft	21,3ft	26,7ft	32ft	42,7ft	53,4ft

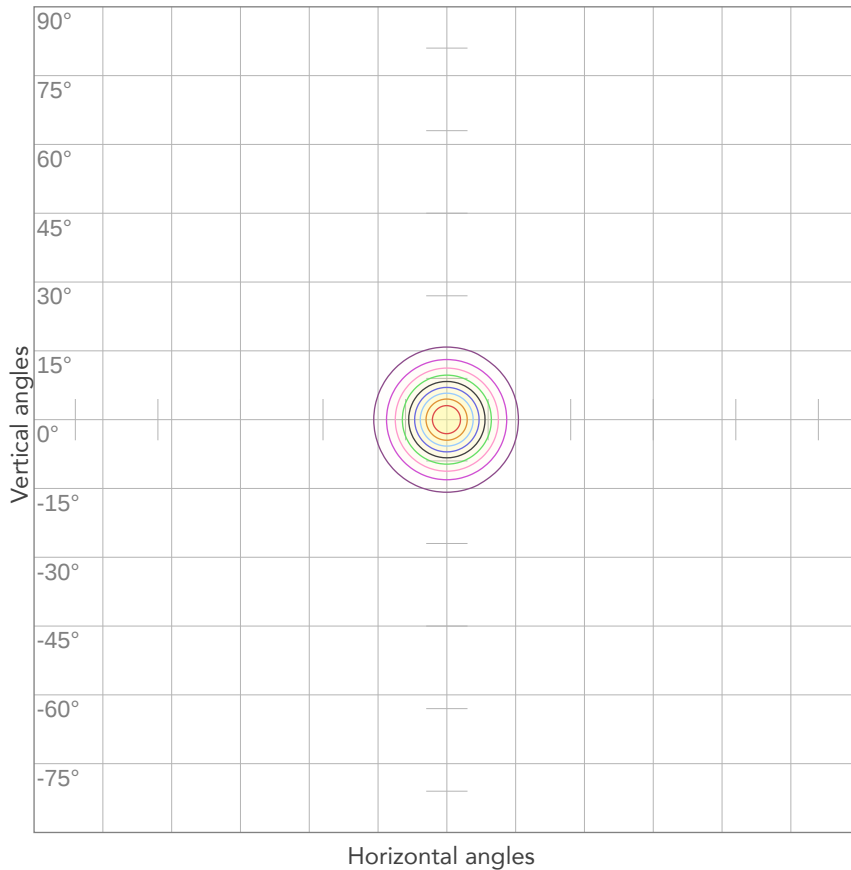
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,549A	116,9W	28lm/W

ISO CANDELA DIAGRAM



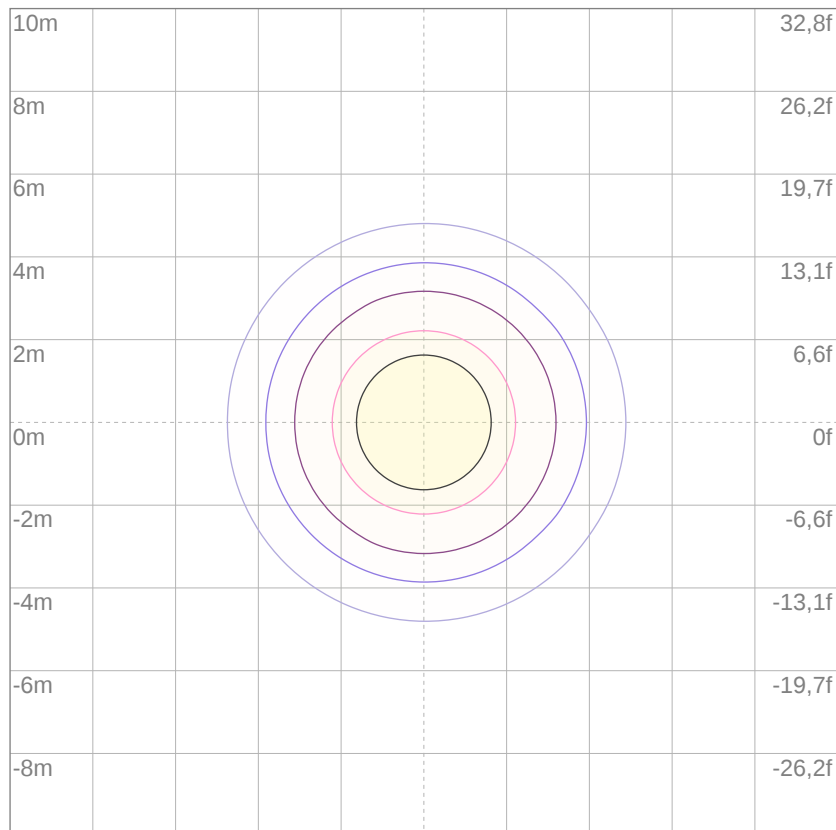
10%	2161 cd
20%	4322 cd
30%	6483 cd
40%	8644 cd
50%	10805 cd
60%	12966 cd
70%	15127 cd
80%	17288 cd

Conditions:

Number of c-planes: 2

Candela at center: 21610 cd

ISO LUX DIAGRAM



3%	6,48 lx
5%	10,8 lx
10%	21,6 lx
30%	64,8 lx
50%	108 lx

Conditions:

Number of c-planes: 2

Lux at center: 216 lx

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



Total lumen output:

3160 lm

Peak candela output:

4499 cd

Light quality:

CRI: 49,9

Color temperature:

6076 K

PRODUCT NAME:

STUDIOCOBPLUFC

MEASURAMENT CONDITIONS:

Beam angle:

Wide

Target:

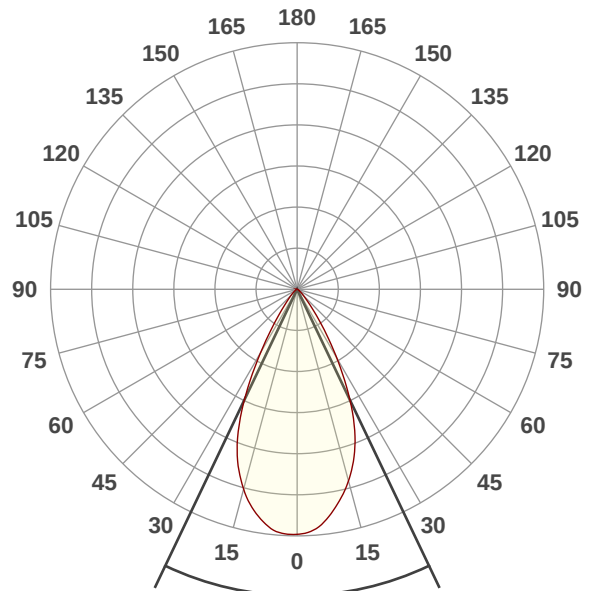
6000K

Operator:

Paolo Carvone

Date and time:

05/02/2021 11:54:57

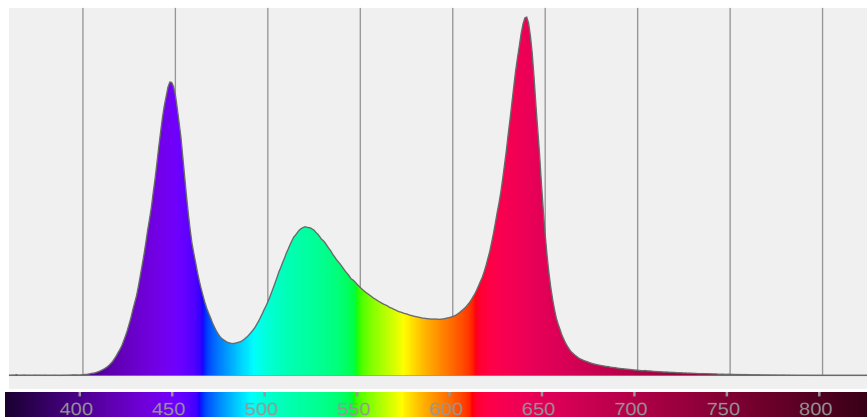


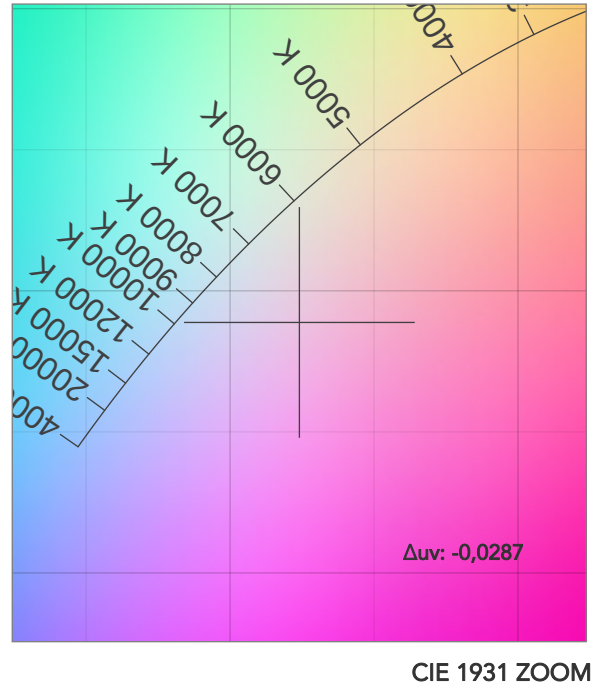
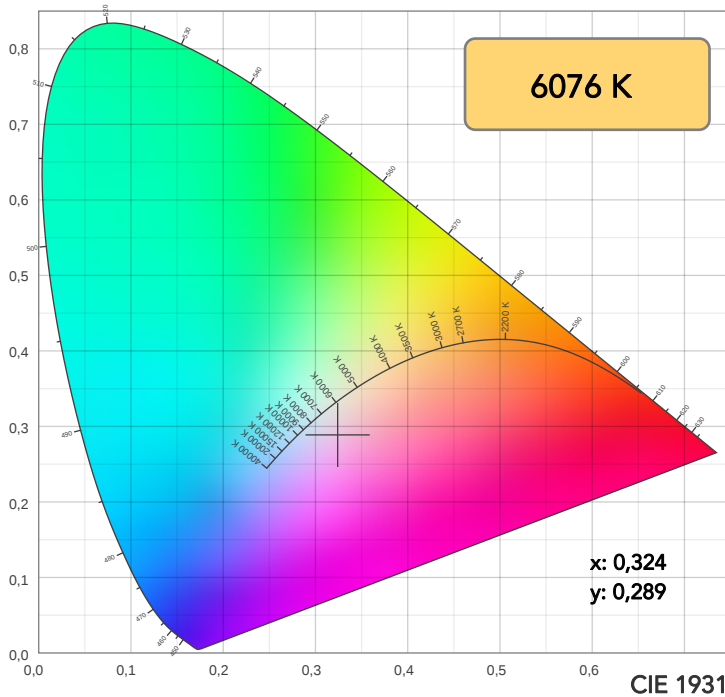
Beam angle 50%: 51°

Field angle 10%: 75,4°

Cut off angle 2.5%: 97,3°

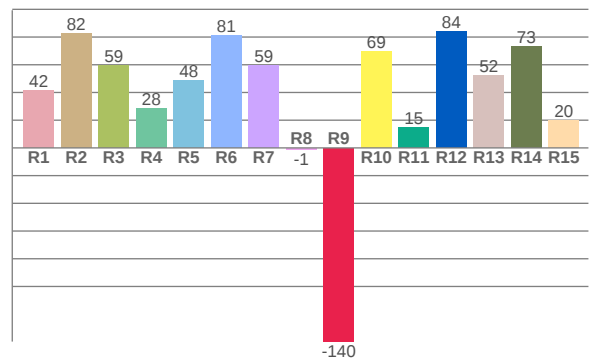
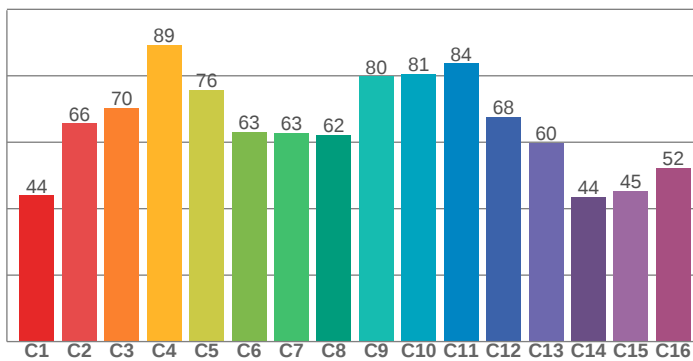
Spectra





TM30: 67,0

CRI: 49,9 (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
41,8	82,3	59,3	28,2	48,5	81,2	59,2	-1,3	-139,8	69,3	14,6	83,8	52,1	73,3	19,9

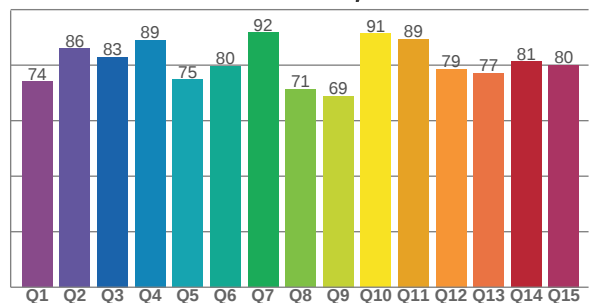
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
44,0	65,7	70,3	89,4	75,8	63,1	62,9	62,1	79,8	80,5	83,7	67,6	59,8	43,6	45,4	52,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,0	86,0	82,9	89,1	74,9	79,7	91,7	71,3	68,9	91,4	89,4	78,6	77,1	81,3	80,0

CQS: 79,8



COLOR PARAMETERS

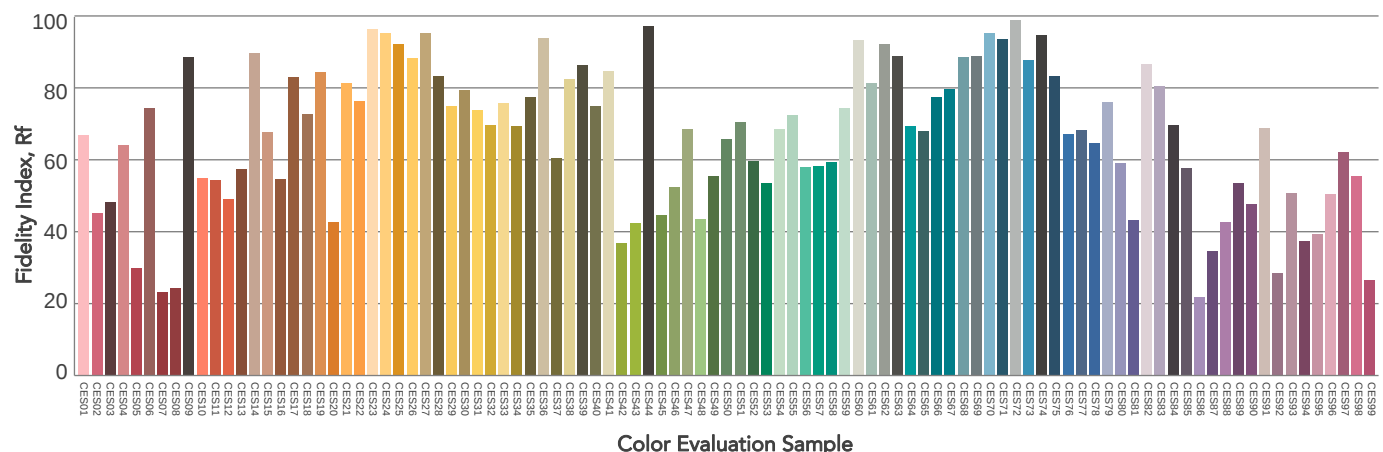
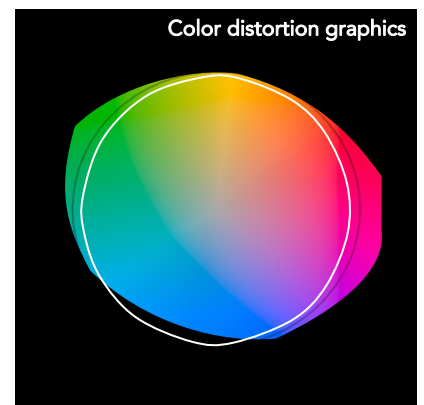
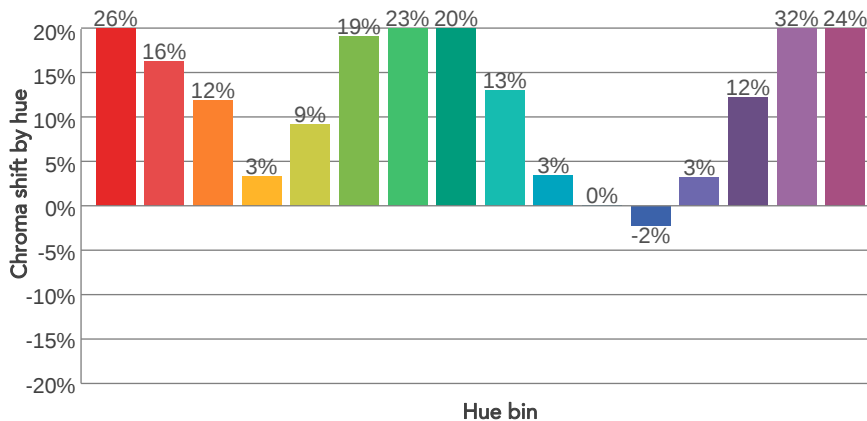
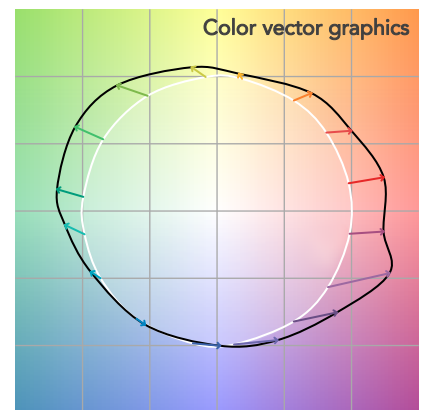
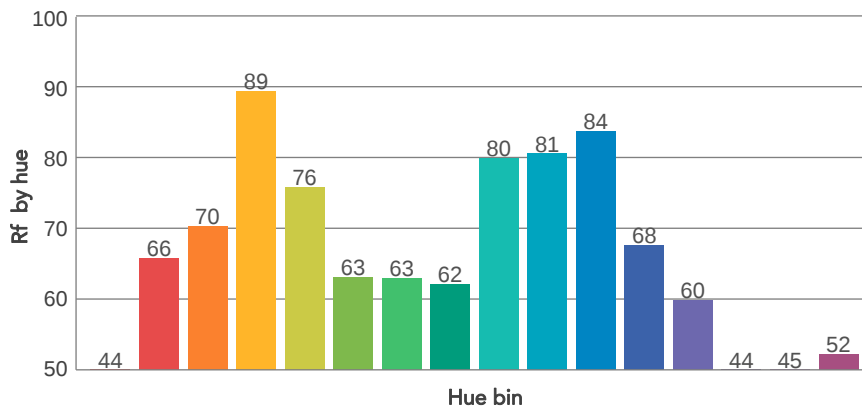
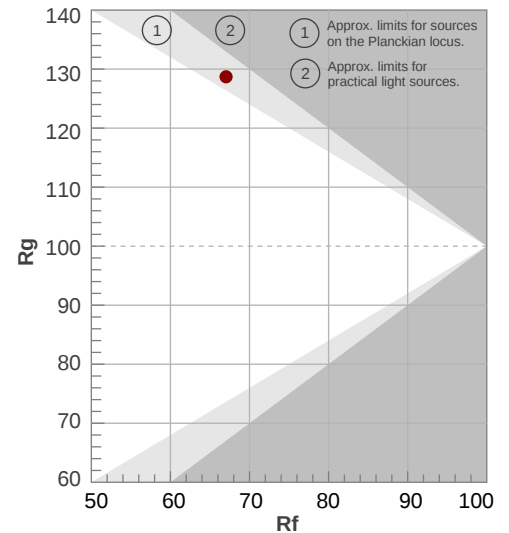
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6076 K	49,9	-139,8	67,0	128,7	79,8	46	0,324	0,289	-0,0287

TM30 DETAILS

Rf 67,0
Fidelity index Rf

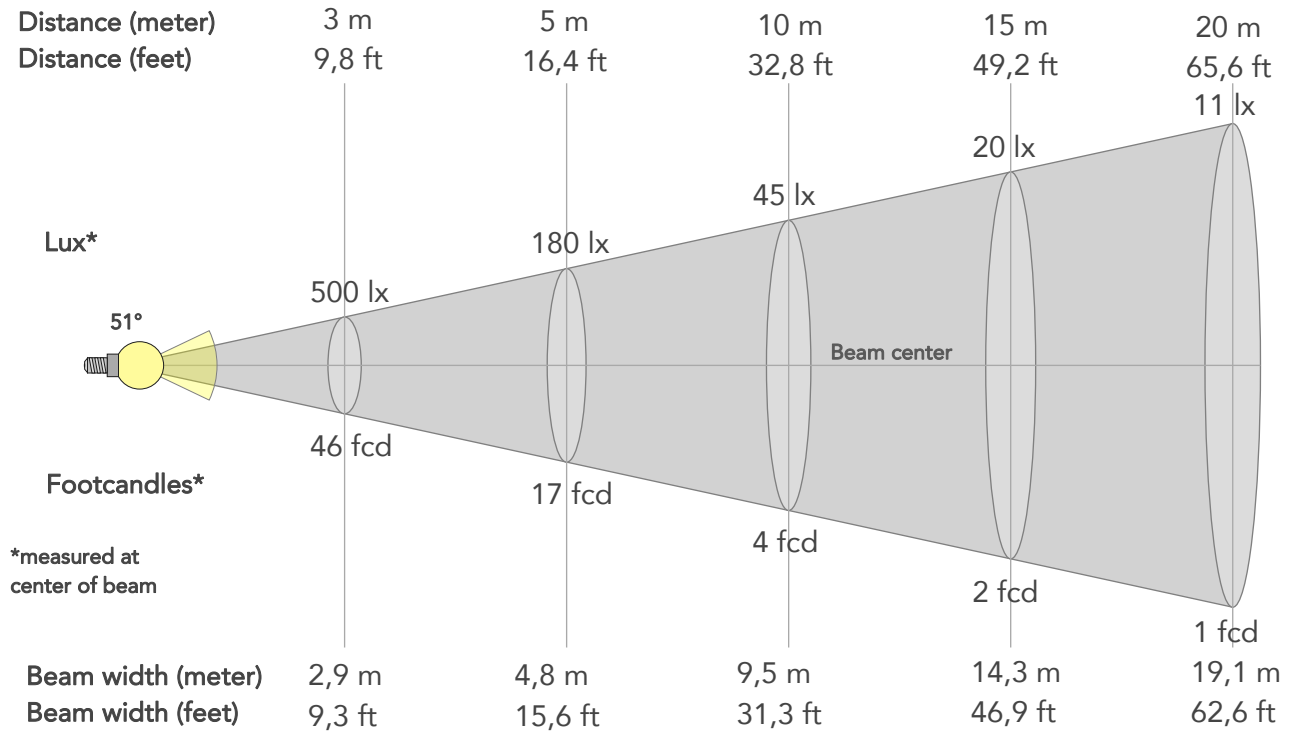
Rg 128,7
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	44	26%	-1%
2	66	16%	-9%
3	70	12%	-8%
4	89	3%	3%
5	76	9%	9%
6	63	19%	14%
7	63	23%	4%
8	62	20%	-2%
9	80	13%	-10%
10	81	3%	-8%
11	84	0%	8%
12	68	-2%	20%
13	60	3%	32%
14	44	12%	30%
15	45	32%	34%
16	52	24%	7%



BEAM DETAILS

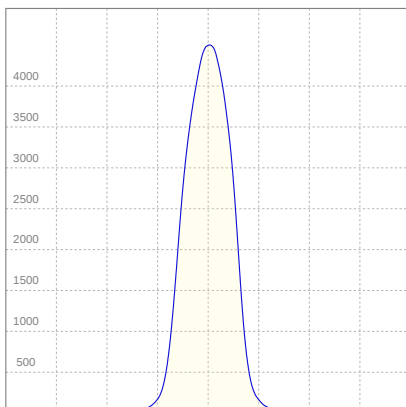
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51°	75,4°	97,3°	99,3%	96,0%



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	4497lx	1124lx	500lx	281lx	180lx	80lx	45lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	418fcd	104fcd	46fcd	26fcd	17fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1m	1,9m	2,9m	3,8m	4,8m	7,2m	9,5m	14,3m	19,1m	23,8m	28,6m	38,2m	47,7m
Beam wid.	3,1ft	6,3ft	9,3ft	12,5ft	15,6ft	23,5ft	31,3ft	46,9ft	62,6ft	78,2ft	93,9ft	125,2ft	156,4ft

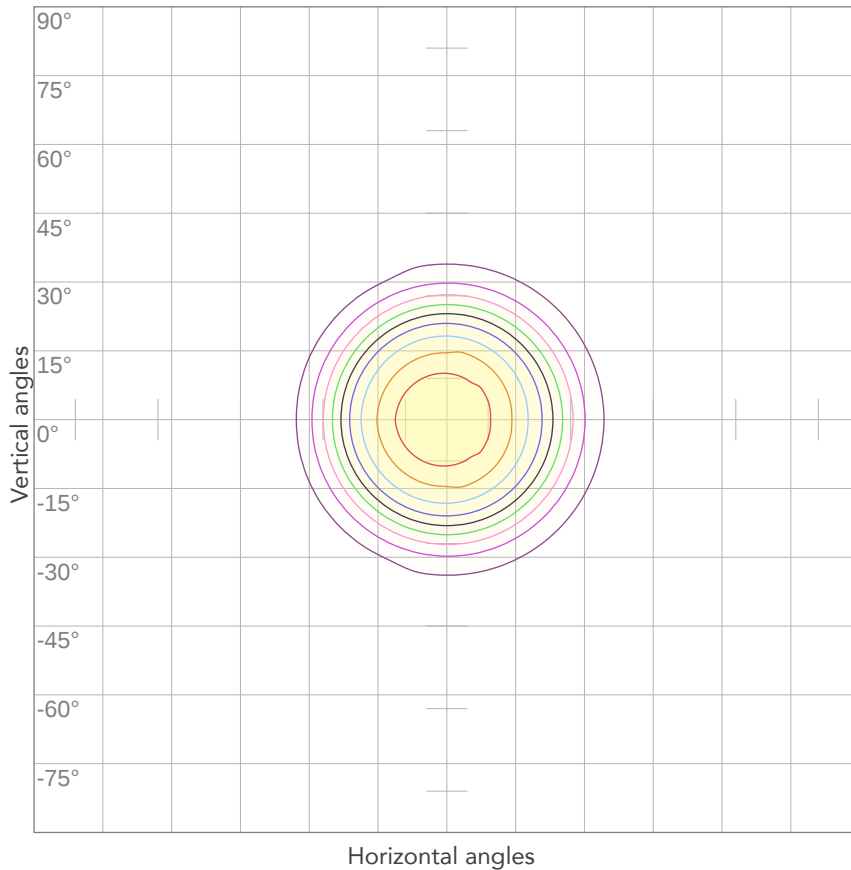
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,550A	116,5W	27lm/W

ISO CANDELA DIAGRAM



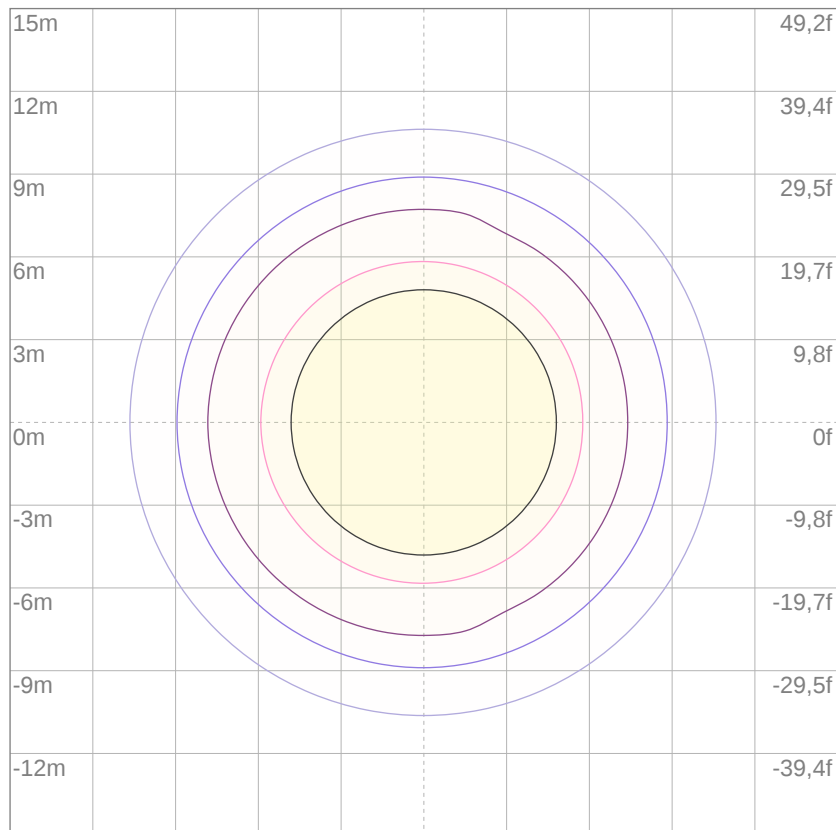
10%	450 cd
20%	899 cd
30%	1349 cd
40%	1799 cd
50%	2249 cd
60%	2698 cd
70%	3148 cd
80%	3598 cd

Conditions:

Number of c-planes: 2

Candela at center: 4497 cd

ISO LUX DIAGRAM



3%	1,35 lx
5%	2,25 lx
10%	4,50 lx
30%	13,5 lx
50%	22,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 45,0 lx

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