

Photometric Test Report



SMARTBATPLUSG2

4X20W hybrid battery uplighter/spot,
IP 65, with RGB + Warm White LED source,
wireless or wired

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Color temperature 3200K

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Color temperature 4000K

No Filter	130
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Filter 40°	140
Filter 60°	145
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Color temperature 5600K

No Filter	155
Filter 20°	160
Filter 40°	165
Filter 60°	170
Filter 10° - 60°	175

Color temperature 6000K

No Filter	180
Filter 20°	185
Filter 40°	190
Filter 60°	195
Filter 10° - 60°	200

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:

2051 lm

Peak candela output:

43077 cd

PRODUCT NAME:
SMARTBATPLUSG2

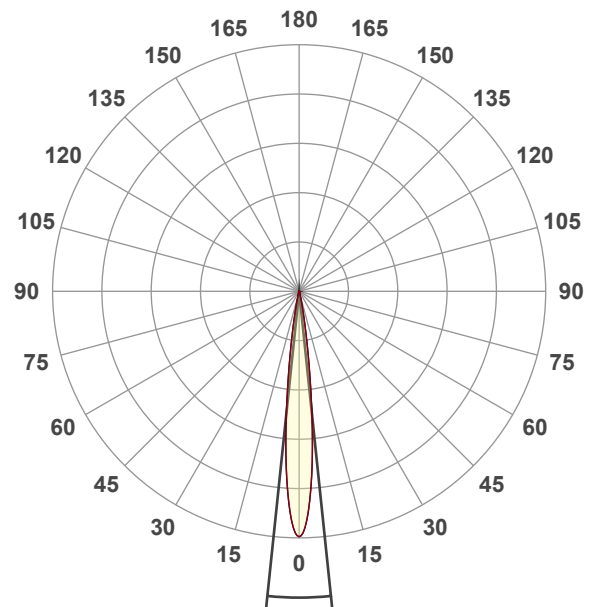
MEASUREMENT CONDITIONS:

Beam angle:
Native Optic (Without Filter)

Target:
Full On Cal.Off.

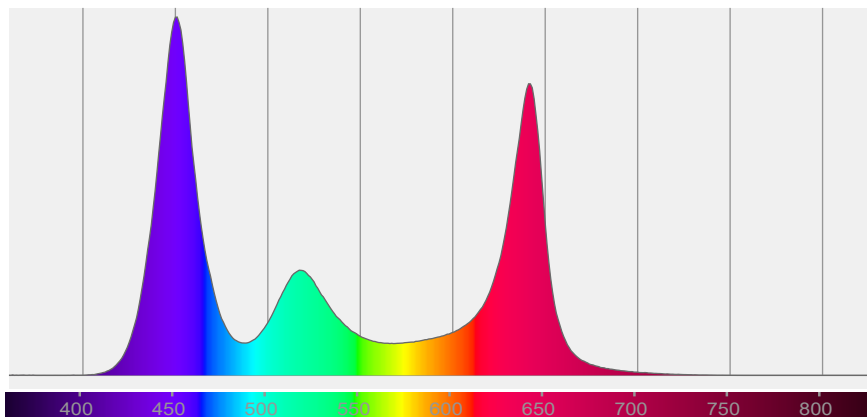
Operator:
Paolo Carvone

Date and time:
10/06/2022 12:39:27



Beam angle 50%: 11,9°
Field angle 10%: 21°
Cut off angle 2.5%: 26,8°

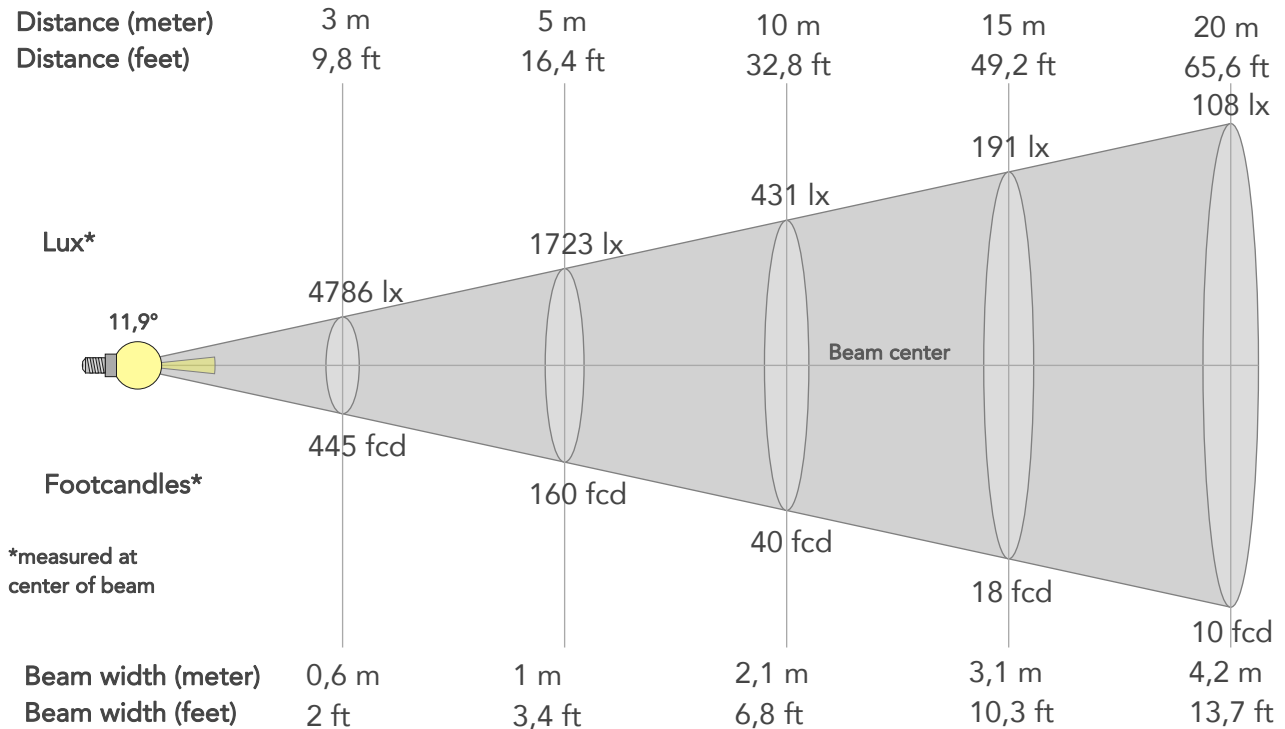
Spectra



BEAM DETAILS



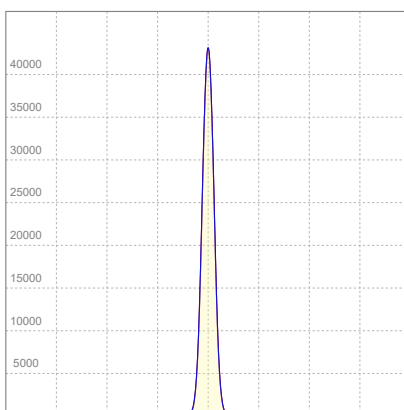
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,9°	21°	26,8°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	43077lx	10769lx	4786lx	2692lx	1723lx	766lx	431lx	191lx	108lx	69lx	48lx	27lx	17lx
Footcand.	4002fcd	1001fcd	445fcd	250fcd	160fcd	71fcd	40fcd	18fcd	10fcd	6fcd	4fcd	3fcd	2fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,6m	2,1m	3,1m	4,2m	5,2m	6,3m	8,3m	10,4m
Beam wid.	0,7ft	1,4ft	2ft	2,7ft	3,4ft	5,1ft	6,8ft	10,3ft	13,7ft	17,1ft	20,5ft	27,4ft	34,2ft

LINEAR DISTRIBUTION DIAGRAM

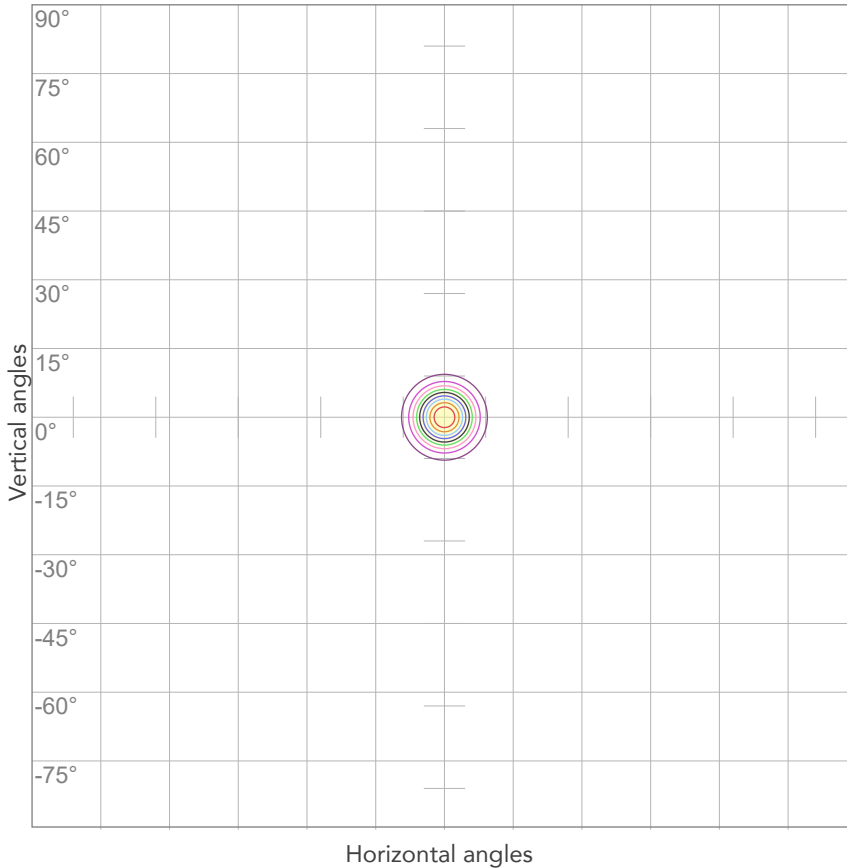


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,357A	77,8W	26lm/W

Power FC
0,98

ISO CANDELA DIAGRAM



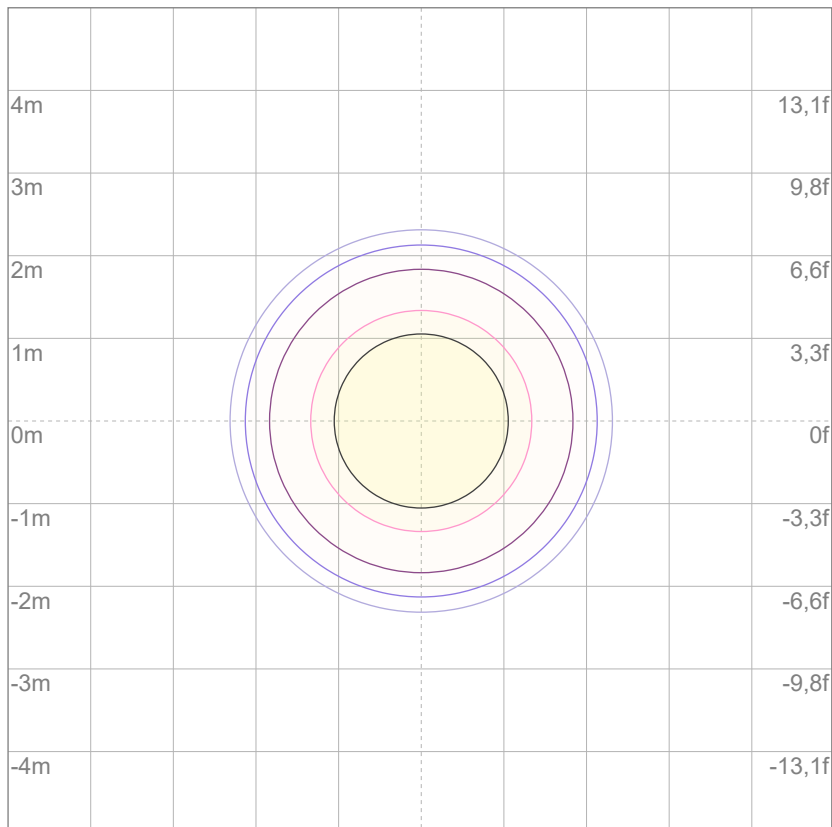
10%	4308 cd
20%	8615 cd
30%	12923 cd
40%	17231 cd
50%	21539 cd
60%	25846 cd
70%	30154 cd
80%	34462 cd

Conditions:

Number of c-planes: 4

Candela at center: 43077 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	12,9 lx
5%	21,5 lx
10%	43,1 lx
30%	129 lx
50%	215 lx

Conditions:

Number of c-planes: 4

Lux at center: 431 lx

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



Total lumen output:

1953 lm

Peak candela output:

8782 cd

PRODUCT NAME:
SMARTBATPLUSG2

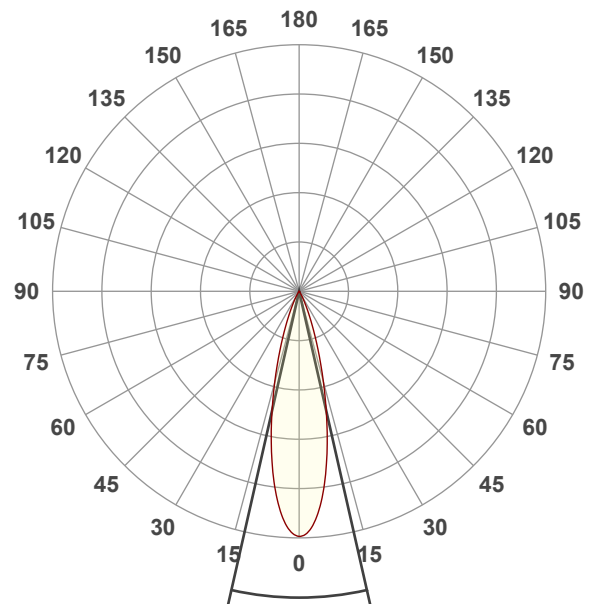
MEASUREMENT CONDITIONS:

Beam angle:
20° Filter

Target:
Full On Cal.Off.

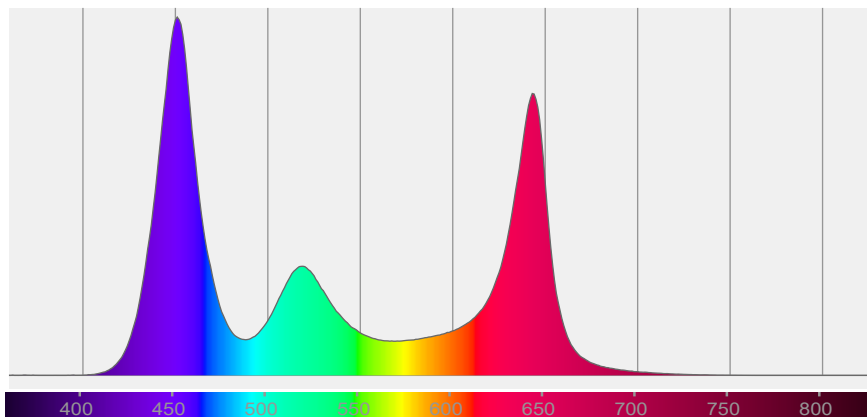
Operator:
Paolo Carvone

Date and time:
13/06/2022 15:01:30



Beam angle 50%: 25,6°
Field angle 10%: 46,6°
Cut off angle 2.5%: 59,2°

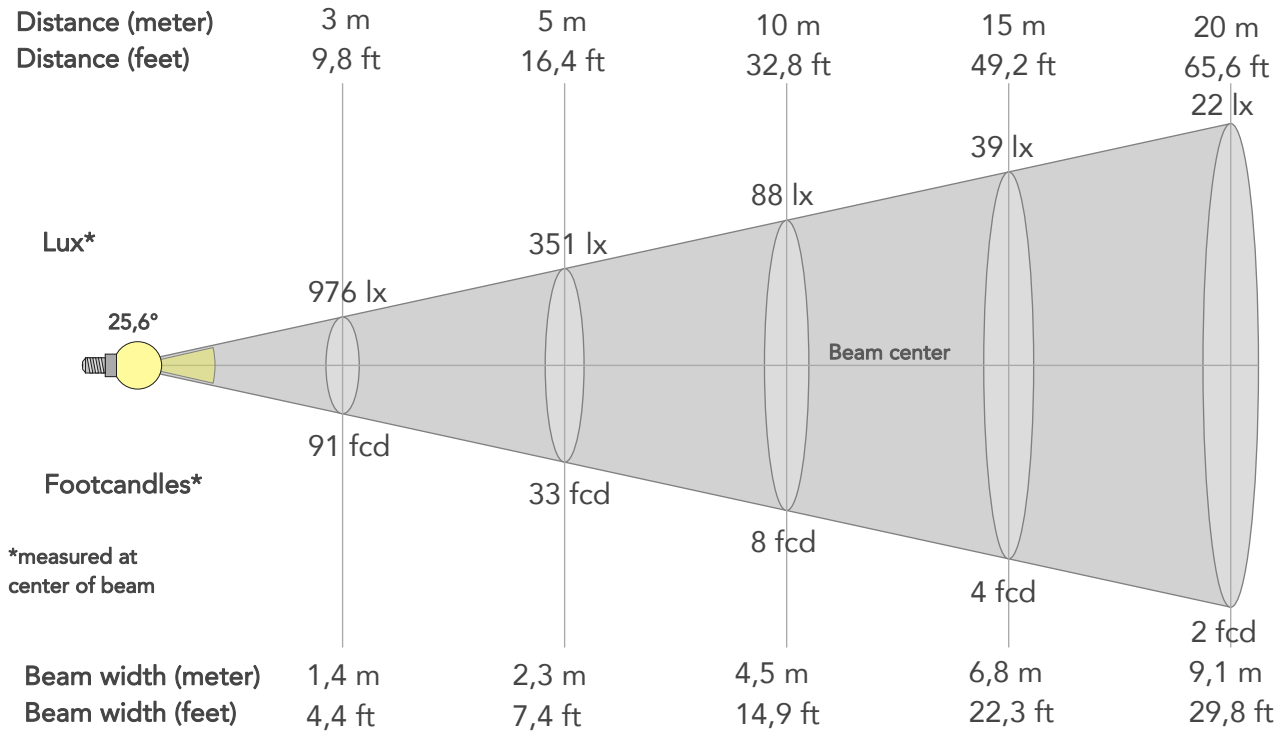
Spectra



BEAM DETAILS



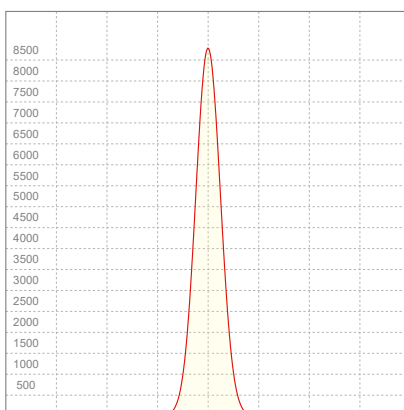
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,6°	46,6°	59,2°	100,0%	99,9%



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	8781lx	2195lx	976lx	549lx	351lx	156lx	88lx	39lx	22lx	14lx	10lx	5lx	4lx
Footcand.	816fcd	204fcd	91fcd	51fcd	33fcd	15fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,5m	6,8m	9,1m	11,3m	13,6m	18,1m	22,7m
Beam wid.	1,5ft	3ft	4,4ft	5,9ft	7,4ft	11,2ft	14,9ft	22,3ft	29,8ft	37,2ft	44,6ft	59,5ft	74,4ft

LINEAR DISTRIBUTION DIAGRAM

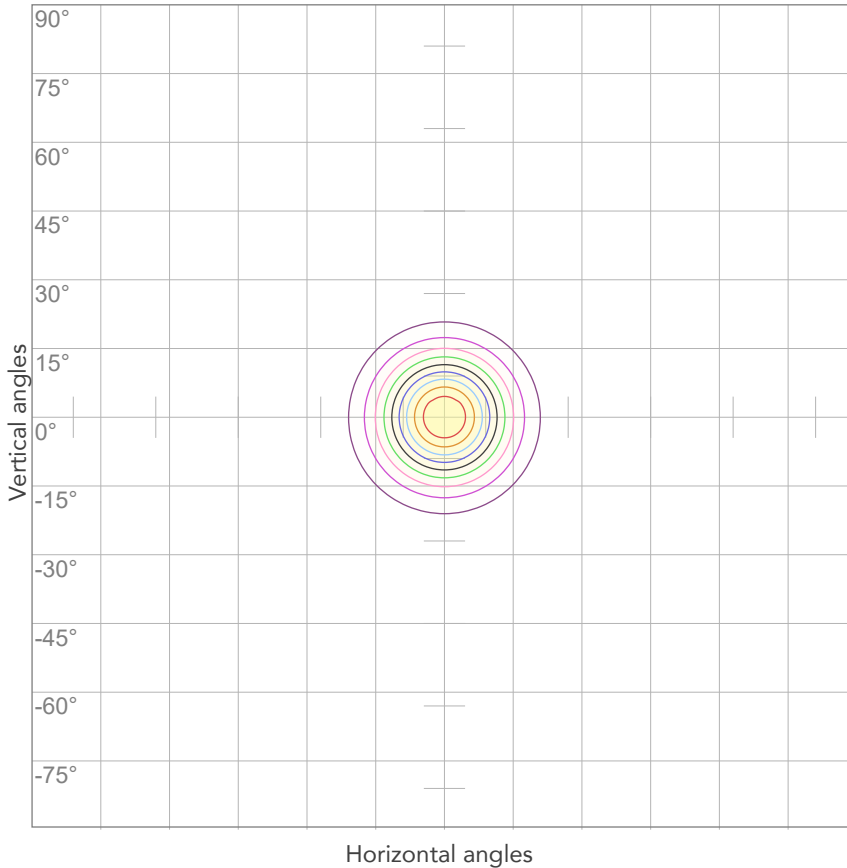


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,344A	76,0W	26lm/W

Power FC
0,97

ISO CANDELA DIAGRAM



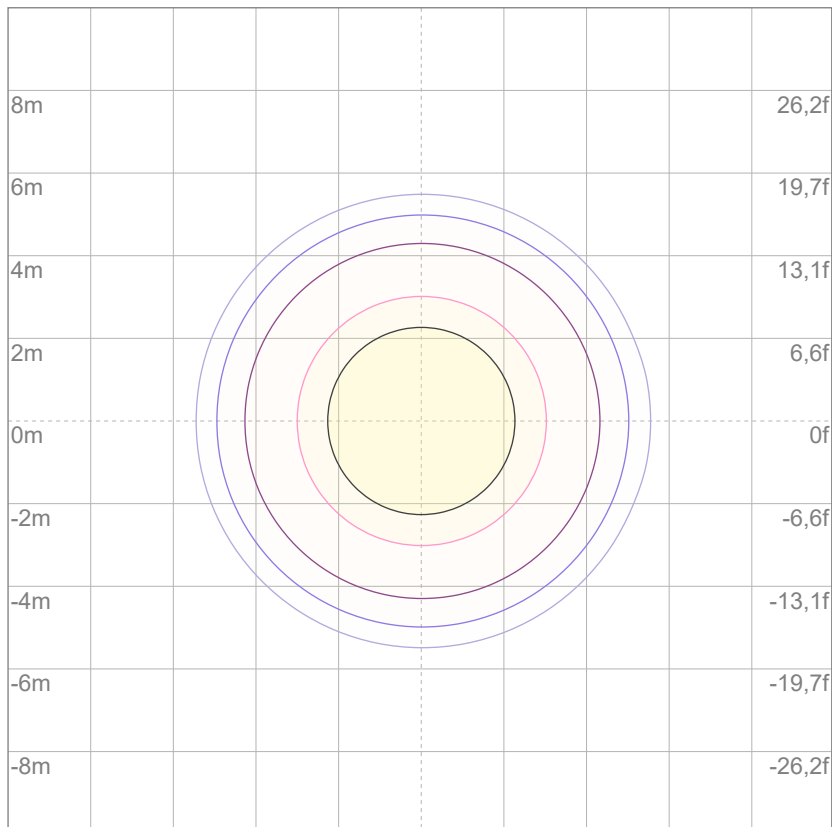
10%	878 cd
20%	1756 cd
30%	2634 cd
40%	3512 cd
50%	4390 cd
60%	5269 cd
70%	6147 cd
80%	7025 cd

Conditions:

Number of c-planes: 2

Candela at center: 8781 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,63 lx
5%	4,39 lx
10%	8,78 lx
30%	26,3 lx
50%	43,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 87,8 lx

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



Total lumen output:

2107 lm

Peak candela output:

3321 cd

PRODUCT NAME:
SMARTBATPLUSG2

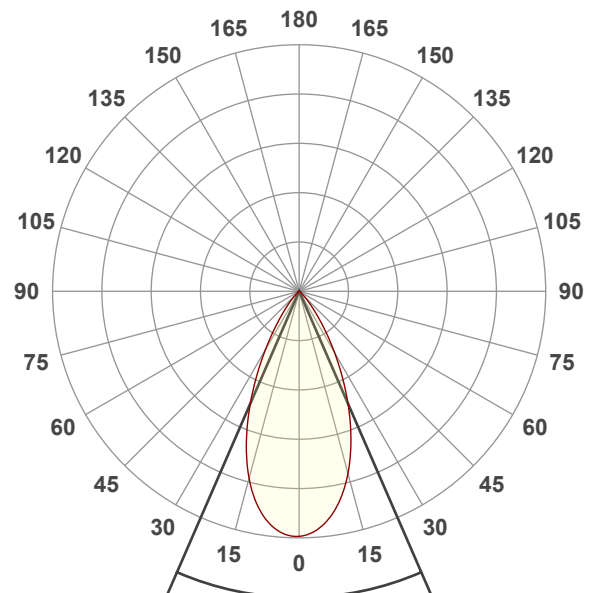
MEASUREMENT CONDITIONS:

Beam angle:
40° Filter

Target:
Full On Cal.Off.

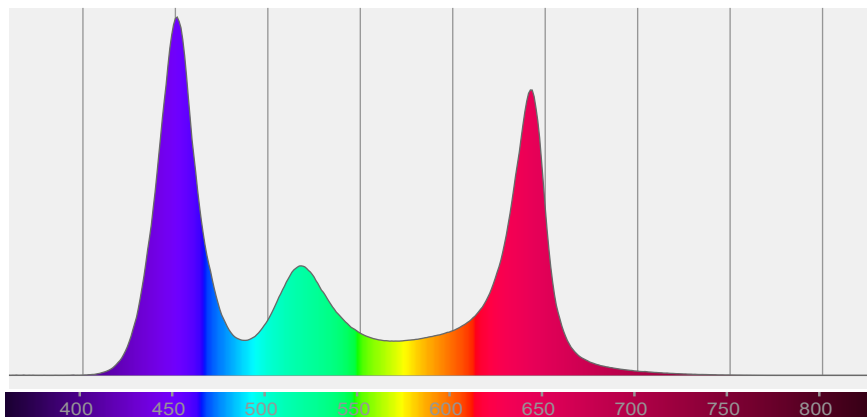
Operator:
Paolo Carvone

Date and time:
13/06/2022 14:39:27



Beam angle 50%: 47°
Field angle 10%: 75,7°
Cut off angle 2.5%: 91,4°

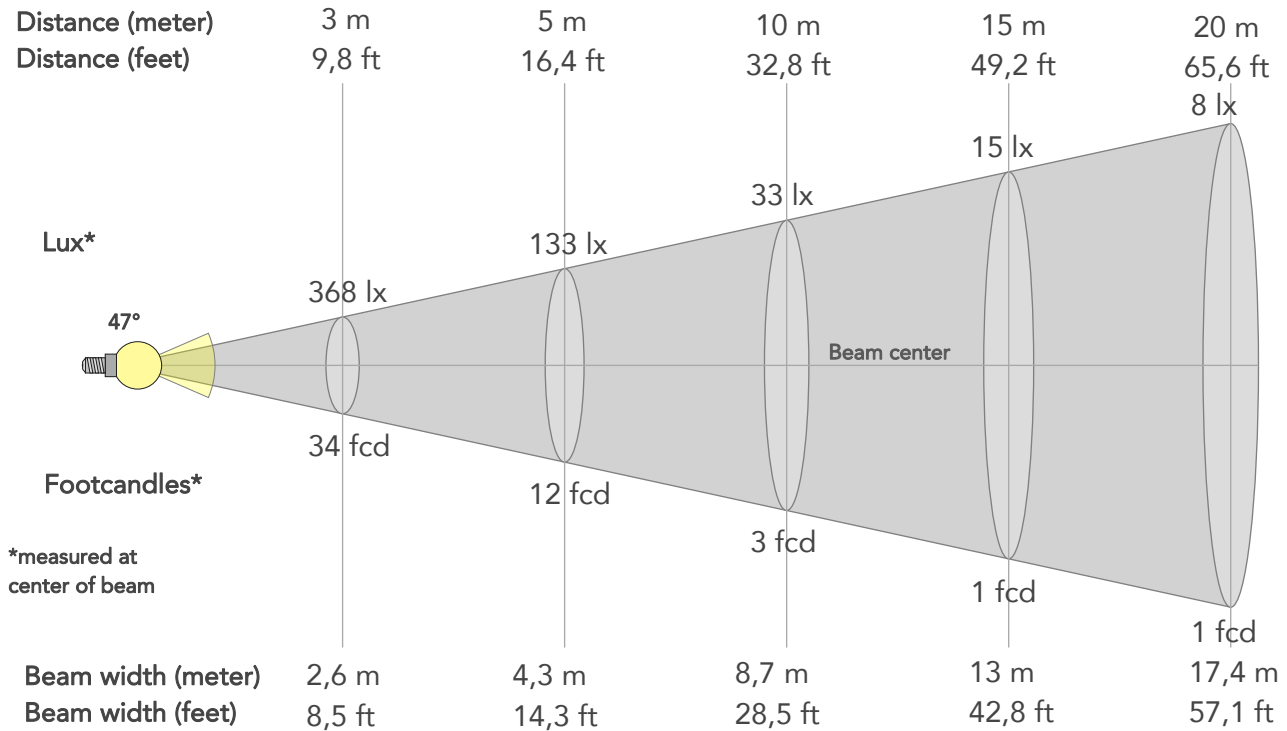
Spectra



BEAM DETAILS



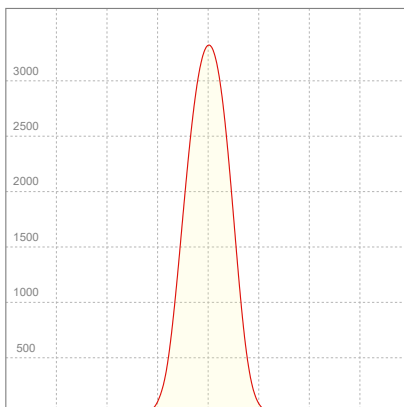
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47°	75,7°	91,4°	99,9%	98,4%



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	3316lx	829lx	368lx	207lx	133lx	59lx	33lx	15lx	8lx	5lx	4lx	2lx	1lx
Footcand.	308fcd	77fcd	34fcd	19fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,3m	6,5m	8,7m	13m	17,4m	21,7m	26,1m	34,8m	43,5m
Beam wid.	2,9ft	5,7ft	8,5ft	11,4ft	14,3ft	21,4ft	28,5ft	42,8ft	57,1ft	71,3ft	85,6ft	114,1ft	142,6ft

LINEAR DISTRIBUTION DIAGRAM

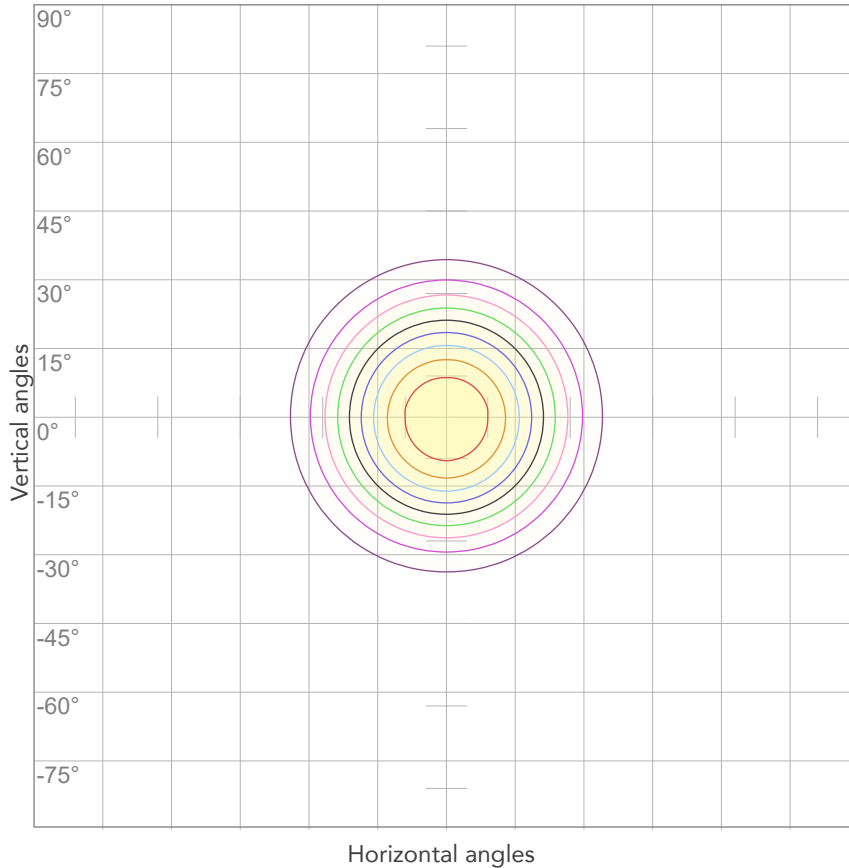


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,346A	76,5W	28lm/W

Power FC
0,97

ISO CANDELA DIAGRAM



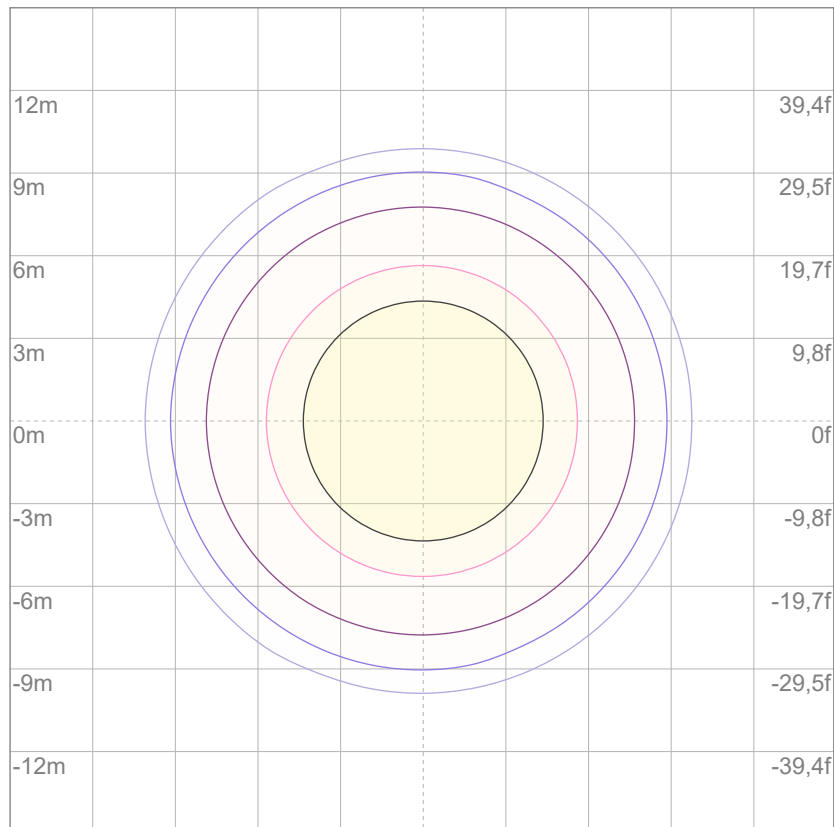
10%	332 cd
20%	663 cd
30%	995 cd
40%	1326 cd
50%	1658 cd
60%	1989 cd
70%	2321 cd
80%	2653 cd

Conditions:

Number of c-planes: 2

Candela at center: 3316 cd

ISO LUX DIAGRAM



3%	0,995 lx
5%	1,66 lx
10%	3,32 lx
30%	9,95 lx
50%	16,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 33,2 lx

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



Total lumen output:

2056 lm

Peak candela output:

2496 cd

PRODUCT NAME:
SMARTBATPLUSG2

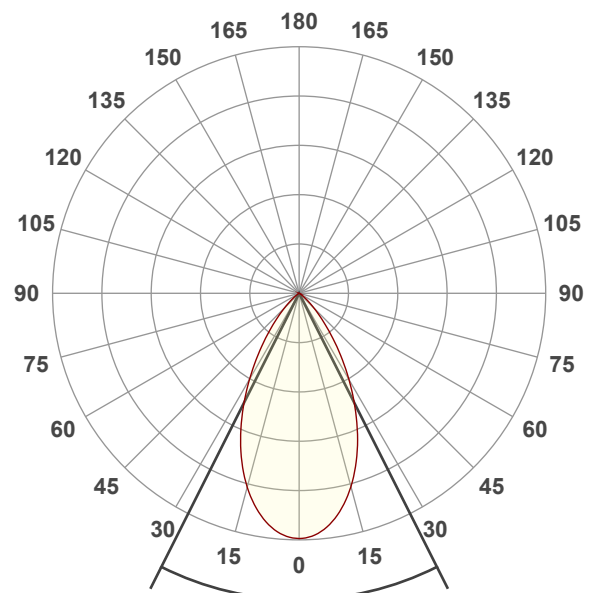
MEASUREMENT CONDITIONS:

Beam angle:
60° Filter

Target:
Full On Cal.Off.

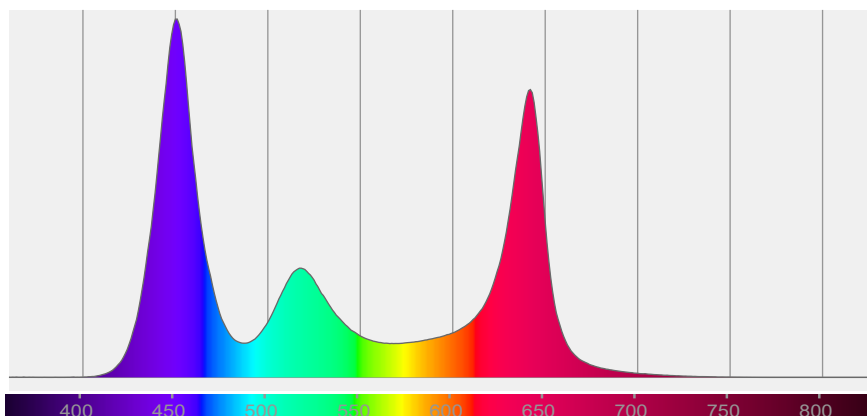
Operator:
Paolo Carvone

Date and time:
13/06/2022 14:13:59



Beam angle 50%: 53,5°
Field angle 10%: 87,9°
Cut off angle 2.5%: 104,7°

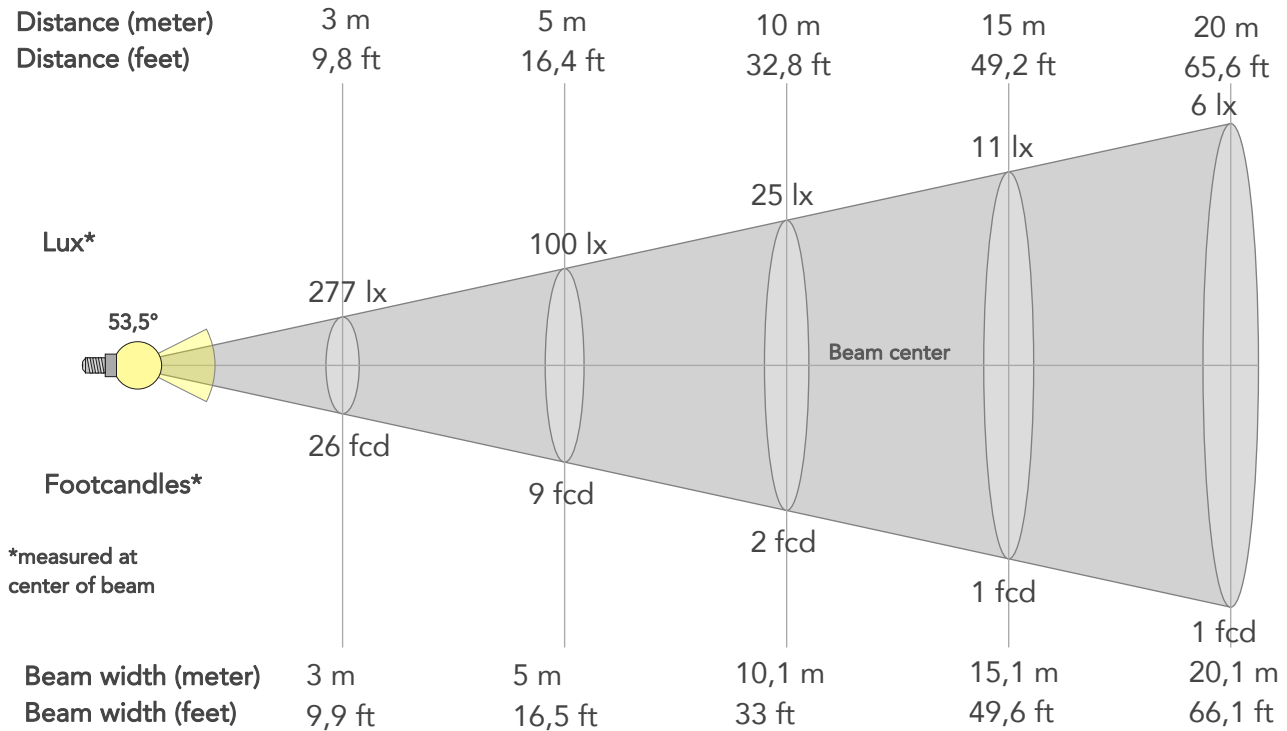
Spectra



BEAM DETAILS



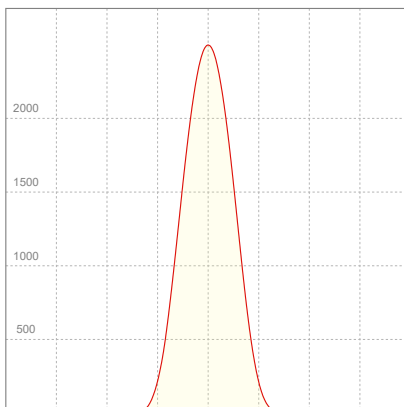
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,5°	87,9°	104,7°	99,8%	95,1%



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	2494lx	623lx	277lx	156lx	100lx	44lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	232fcd	58fcd	26fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,6m	10,1m	15,1m	20,1m	25,2m	30,2m	40,3m	50,4m
Beam wid.	3,3ft	6,6ft	9,9ft	13,2ft	16,5ft	24,8ft	33ft	49,6ft	66,1ft	82,6ft	99,1ft	132,1ft	165,2ft

LINEAR DISTRIBUTION DIAGRAM

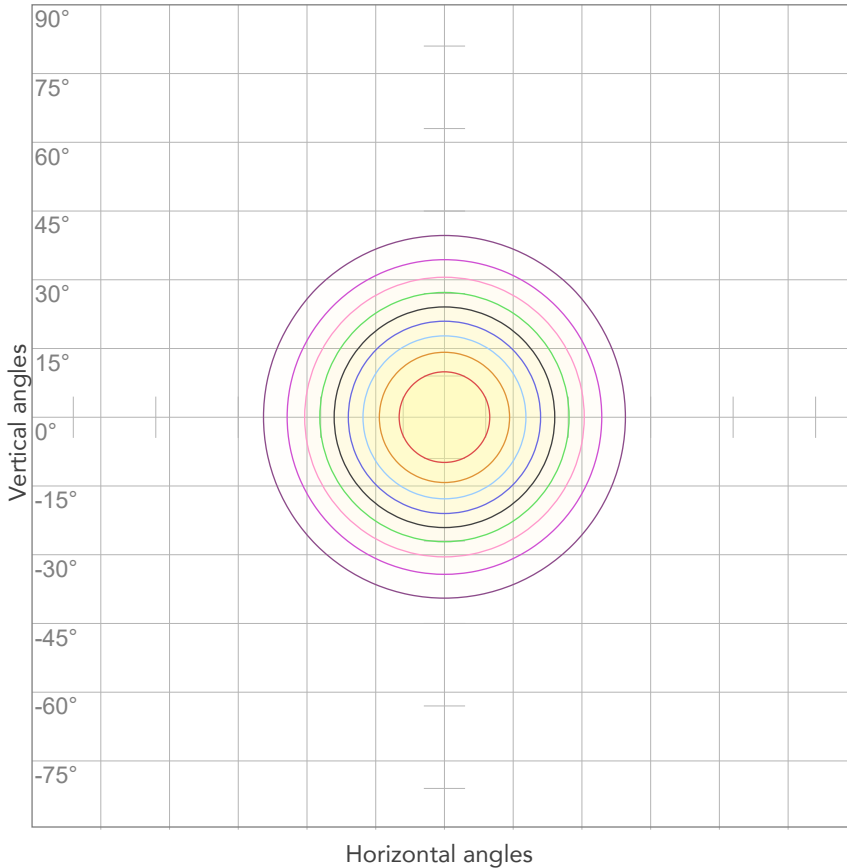


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,350A	77,1W	27lm/W

Power FC
0,97

ISO CANDELA DIAGRAM



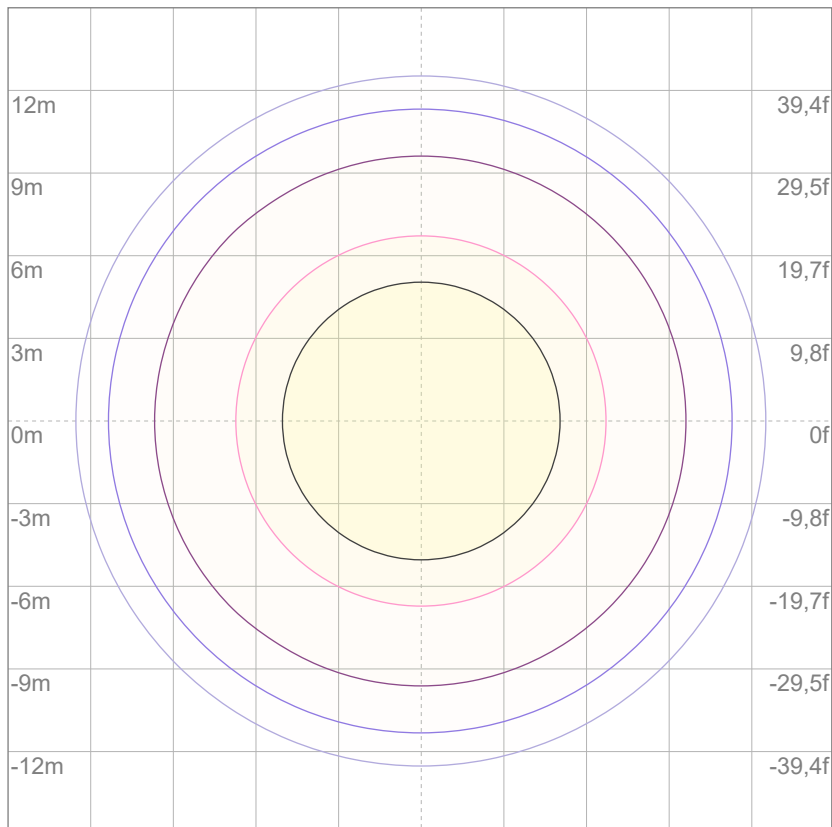
10%	249 cd
20%	499 cd
30%	748 cd
40%	998 cd
50%	1247 cd
60%	1496 cd
70%	1746 cd
80%	1995 cd

Conditions:

Number of c-planes: 2

Candela at center: 2494 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 24,9 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

3102 lm

Peak candela output:

5786 cd

PRODUCT NAME:
SMARTBATPLUSG2

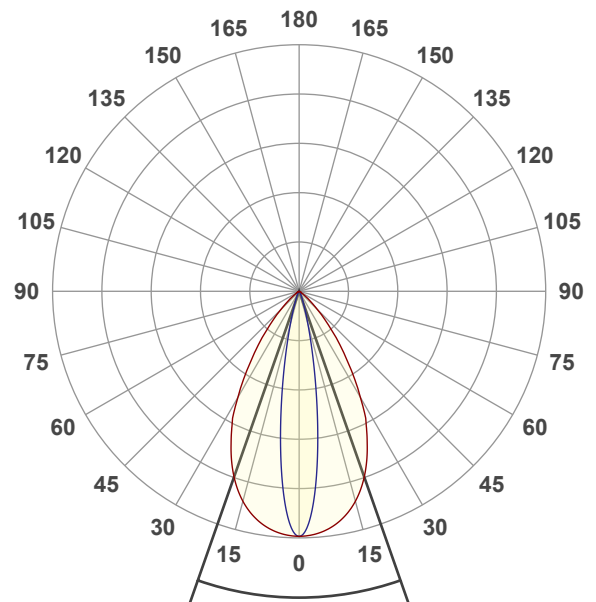
MEASUREMENT CONDITIONS:

Beam angle:
1060 Filter

Target:
Full On Cal.Off.

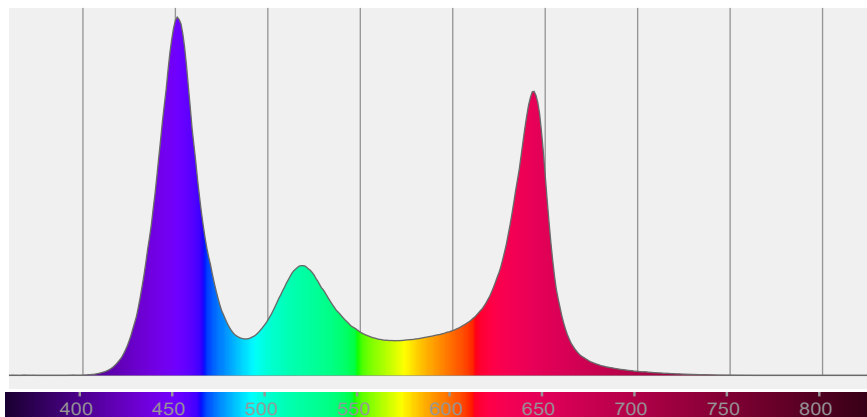
Operator:
Paolo Carvone

Date and time:
10/06/2022 13:15:27



Beam angle 50%: 38,6°
Field angle 10%: 62,1°
Cut off angle 2.5%: 76°

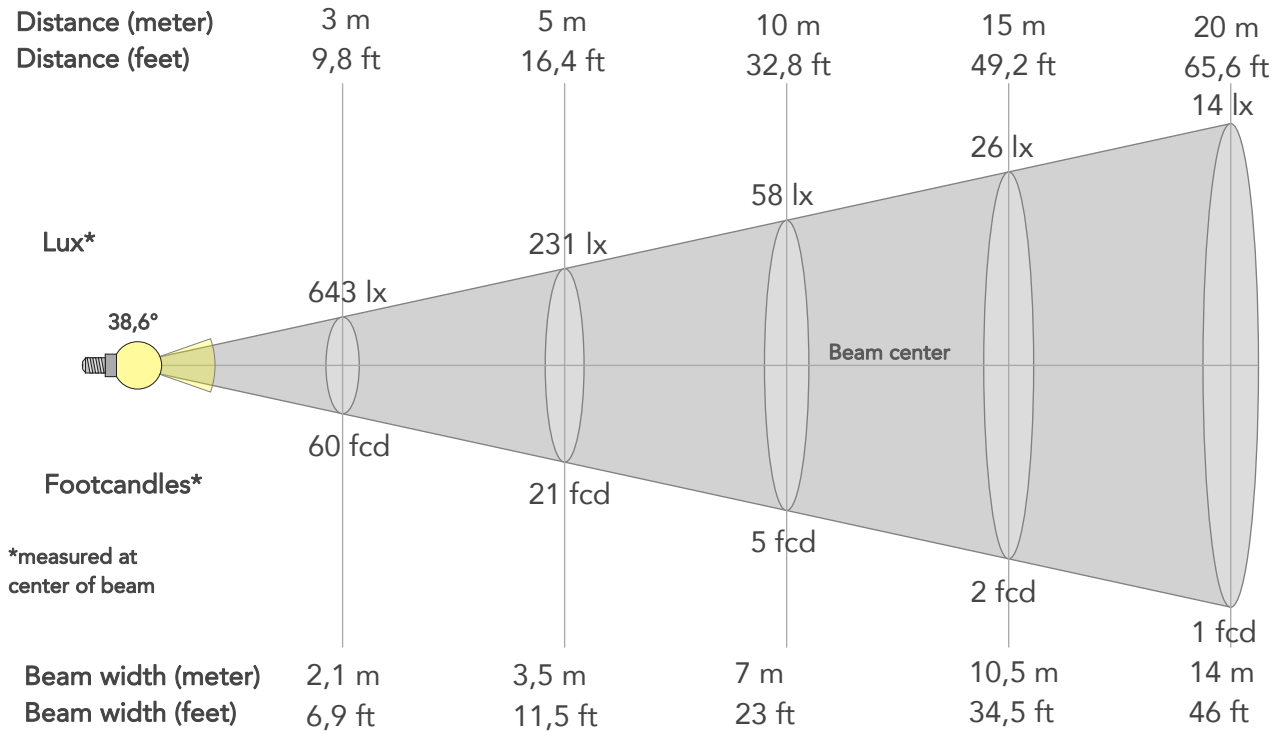
Spectra



BEAM DETAILS



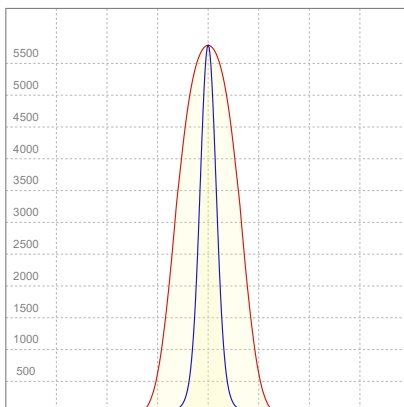
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38,6°	62,1°	76°	100,0%	95,8%



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	5784lx	1446lx	643lx	362lx	231lx	103lx	58lx	26lx	14lx	9lx	6lx	4lx	2lx
Footcand.	537fcd	134fcd	60fcd	34fcd	21fcd	10fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,3m	7m	10,5m	14m	17,5m	21m	28m	35,1m
Beam wid.	2,3ft	4,6ft	6,9ft	9,2ft	11,5ft	17,2ft	23ft	34,5ft	46ft	57,5ft	69ft	92ft	115ft

LINEAR DISTRIBUTION DIAGRAM

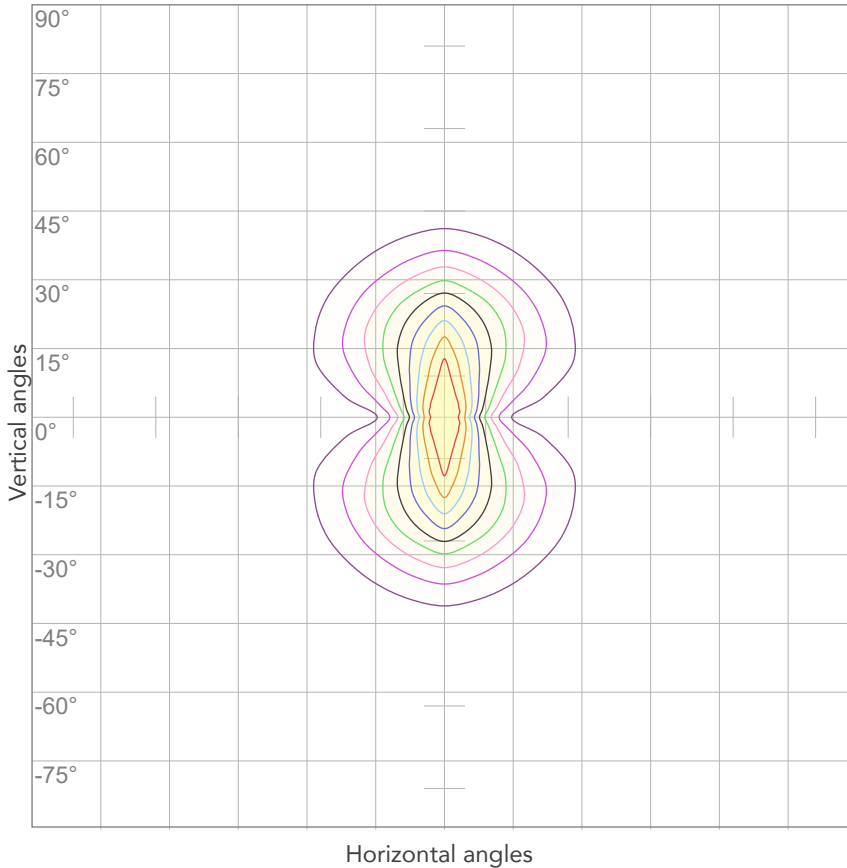


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,348A	76,4W	41lm/W

Power FC
0,97

ISO CANDELA DIAGRAM



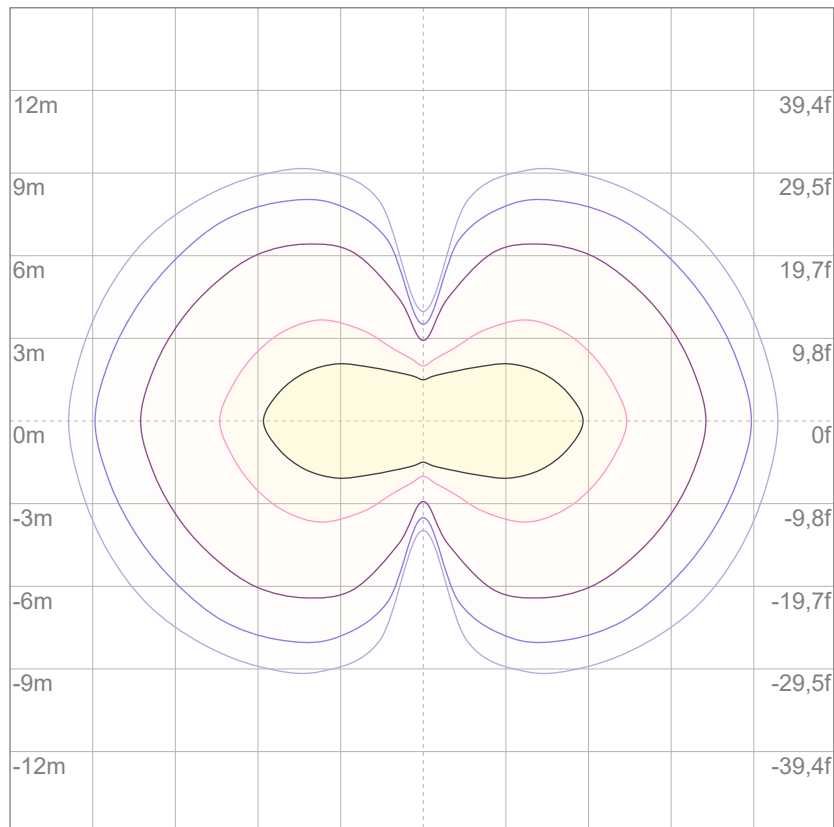
10%	578 cd
20%	1157 cd
30%	1735 cd
40%	2314 cd
50%	2892 cd
60%	3470 cd
70%	4049 cd
80%	4627 cd

Conditions:

Number of c-planes: 4

Candela at center: 5784 cd

ISO LUX DIAGRAM



3%	1,74 lx
5%	2,89 lx
10%	5,78 lx
30%	17,4 lx
50%	28,9 lx

Conditions:

Number of c-planes: 4

Lux at center: 57,8 lx

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



Total lumen output:

468 lm

Peak candela output:

9598 cd

PRODUCT NAME:
SMARTBATPLUSG2

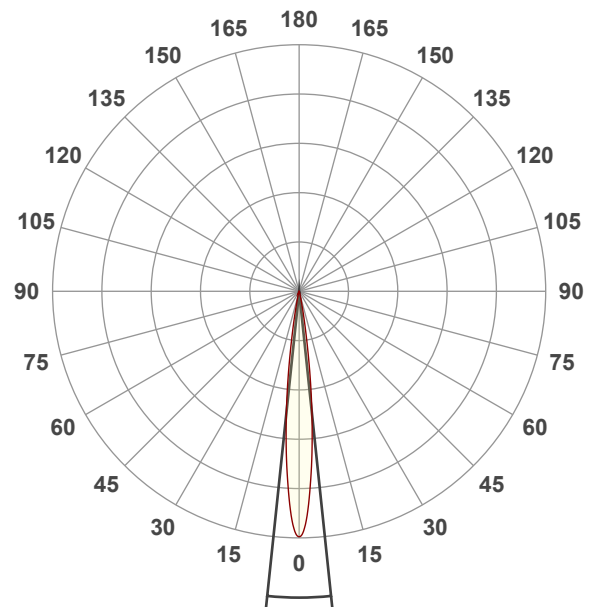
MEASUREMENT CONDITIONS:

Beam angle:
Native Optic (Without Filter)

Target:
Red Cal.Off.

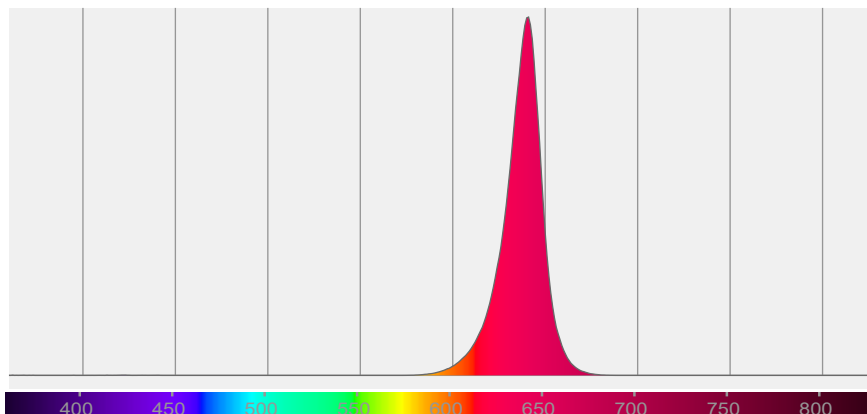
Operator:
Paolo Carvone

Date and time:
10/06/2022 12:42:29

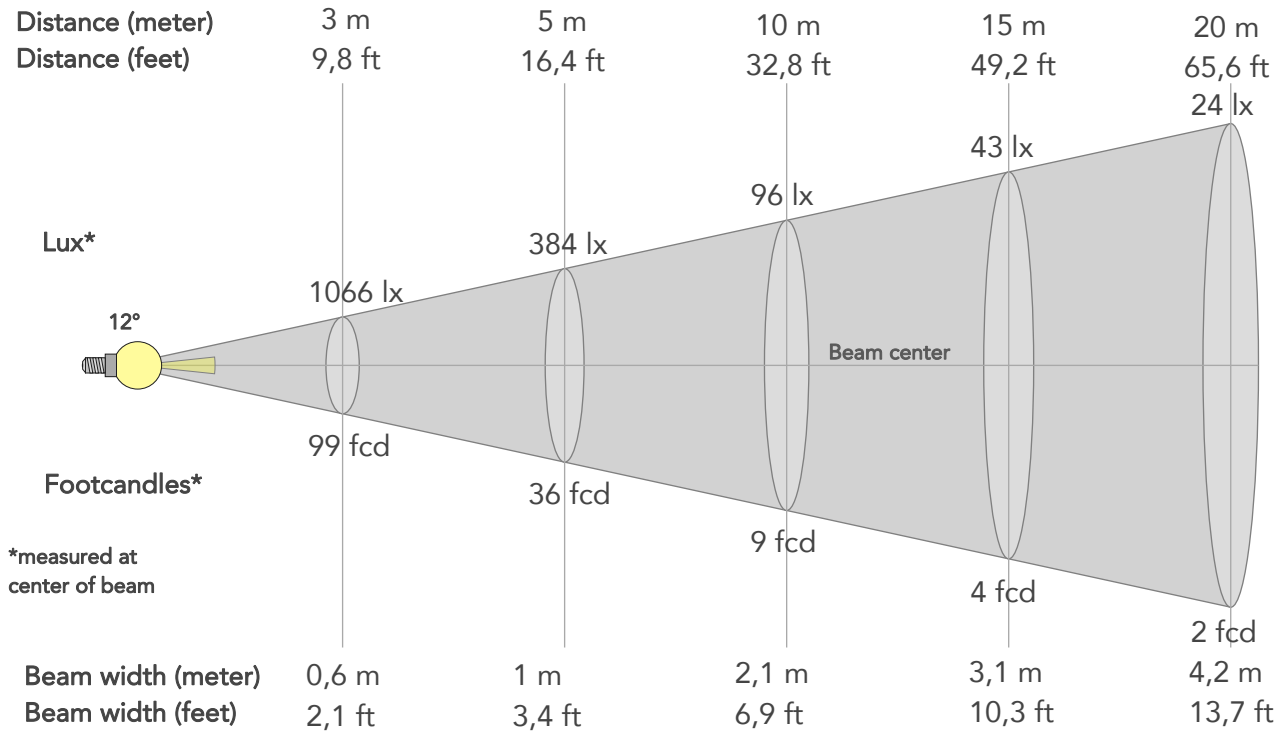


Beam angle 50%: 12°
Field angle 10%: 20,8°
Cut off angle 2.5%: 26,8°

Spectra



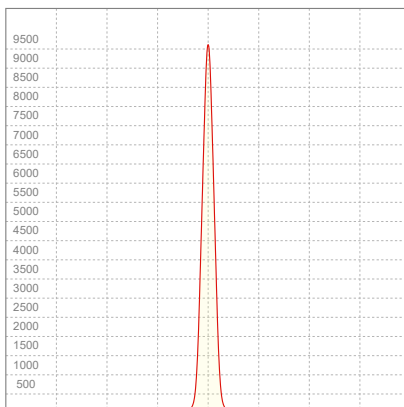
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
12°	20,8°	26,8°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	9598lx	2400lx	1066lx	600lx	384lx	171lx	96lx	43lx	24lx	15lx	11lx	6lx	4lx
Footcand.	892fcd	223fcd	99fcd	56fcd	36fcd	16fcd	9fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,6m	2,1m	3,1m	4,2m	5,2m	6,3m	8,4m	10,5m
Beam wid.	0,7ft	1,4ft	2,1ft	2,7ft	3,4ft	5,2ft	6,9ft	10,3ft	13,7ft	17,2ft	20,6ft	27,5ft	34,4ft

LINEAR DISTRIBUTION DIAGRAM

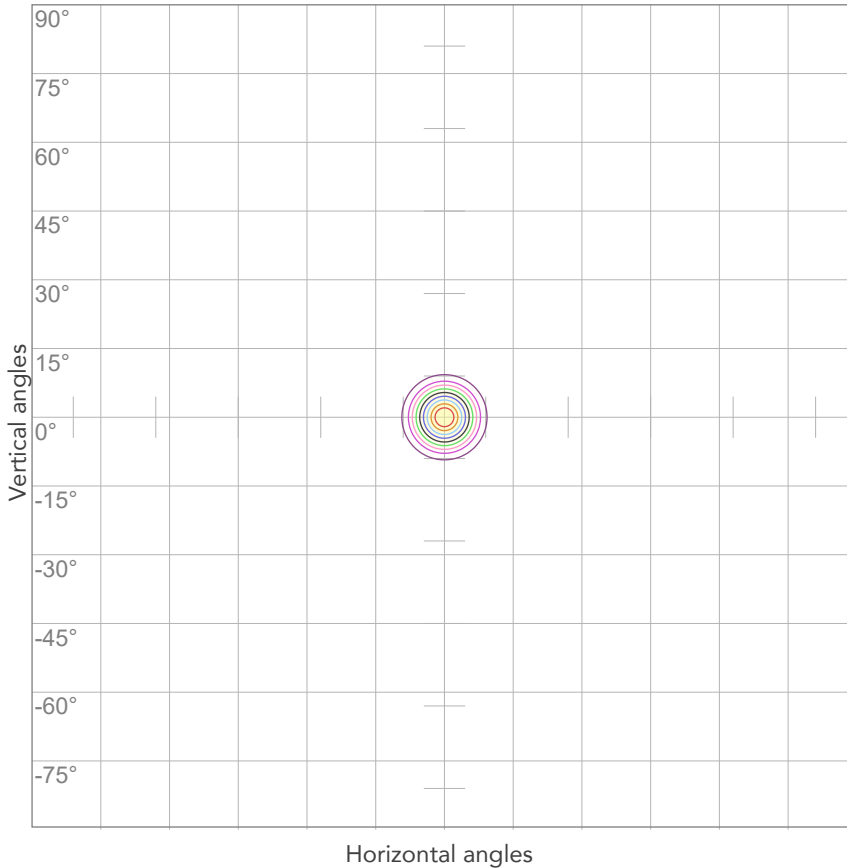


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,208A	18,5W	25lm/W

Power FC
0,39

ISO CANDELA DIAGRAM



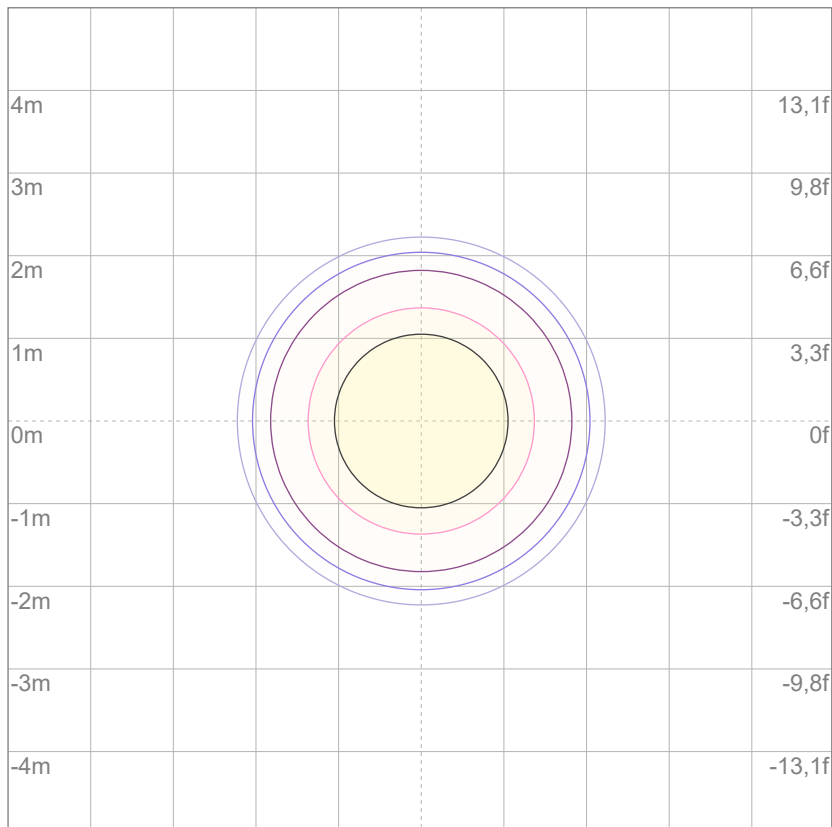
10%	960 cd
20%	1920 cd
30%	2880 cd
40%	3839 cd
50%	4799 cd
60%	5759 cd
70%	6719 cd
80%	7679 cd

Conditions:

Number of c-planes: 2

Candela at center: 9598 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,88 lx
5%	4,80 lx
10%	9,60 lx
30%	28,8 lx
50%	48,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 96,0 lx

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



Total lumen output:

418 lm

Peak candela output:

1895 cd

PRODUCT NAME:
SMARTBATPLUSG2

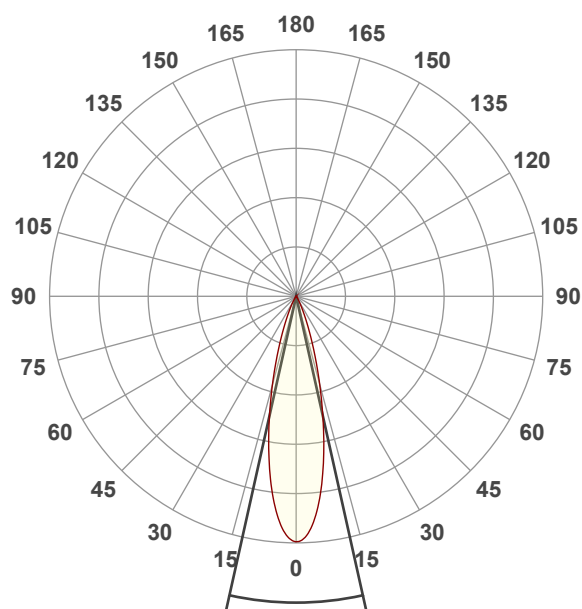
MEASUREMENT CONDITIONS:

Beam angle:
20° Filter

Target:
Red Cal.Off.

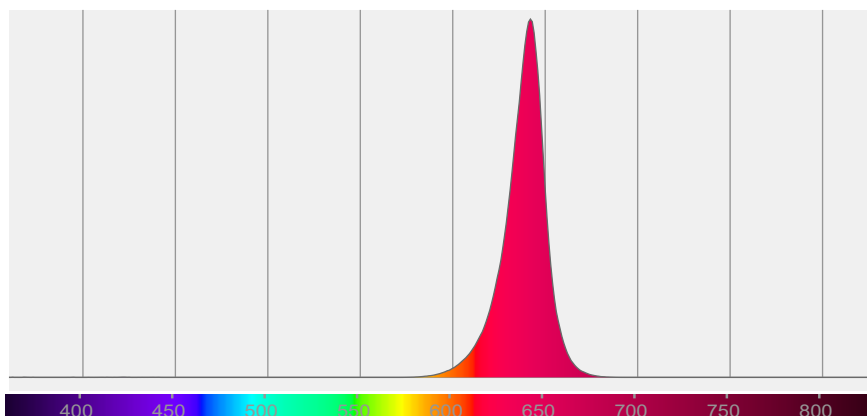
Operator:
Paolo Carvone

Date and time:
13/06/2022 15:03:10



Beam angle 50%: 25,2°
Field angle 10%: 46°
Cut off angle 2.5%: 59,6°

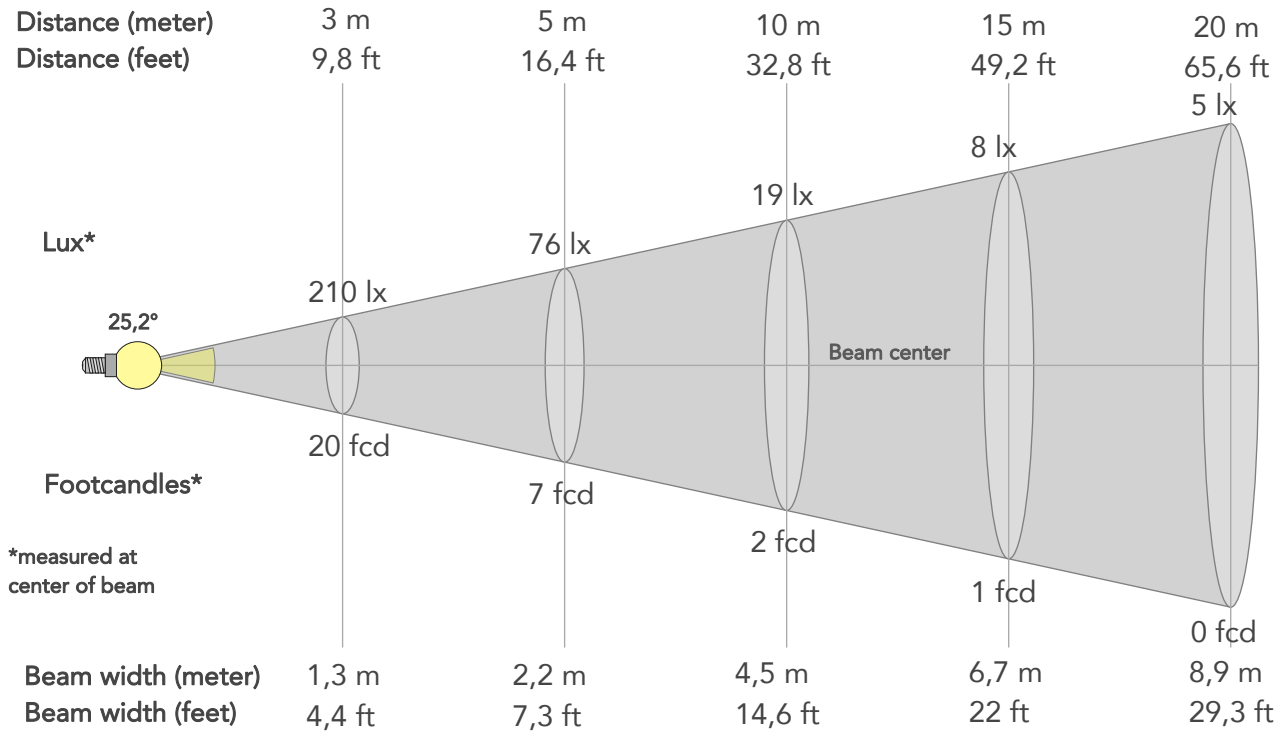
Spectra



BEAM DETAILS



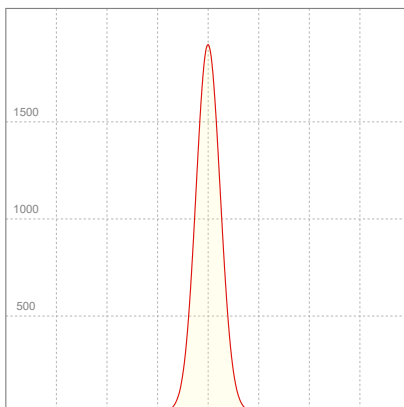
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,2°	46°	59,6°	100,0%	99,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1893lx	473lx	210lx	118lx	76lx	34lx	19lx	8lx	5lx	3lx	2lx	1lx	1lx
Footcand.	176fcd	44fcd	20fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,9m	1,3m	1,8m	2,2m	3,3m	4,5m	6,7m	8,9m	11,2m	13,4m	17,8m	22,3m
Beam wid.	1,5ft	2,9ft	4,4ft	5,8ft	7,3ft	11ft	14,6ft	22ft	29,3ft	36,6ft	43,9ft	58,5ft	73,2ft

LINEAR DISTRIBUTION DIAGRAM

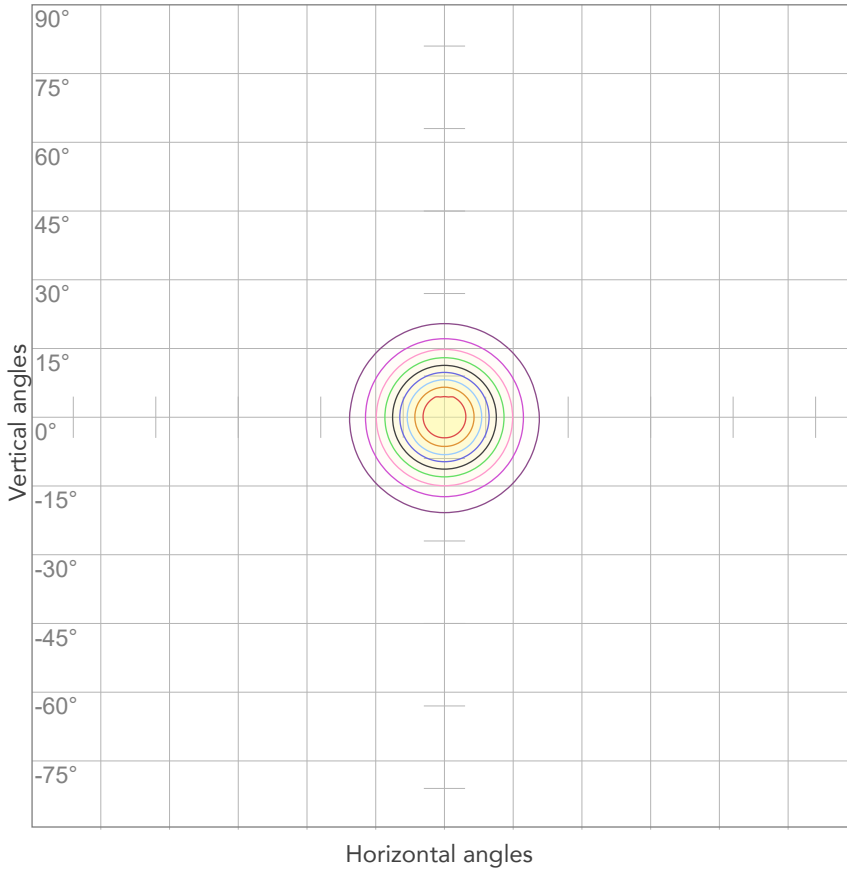


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,188A	18,2W	23lm/W

Power FC
0,43

ISO CANDELA DIAGRAM



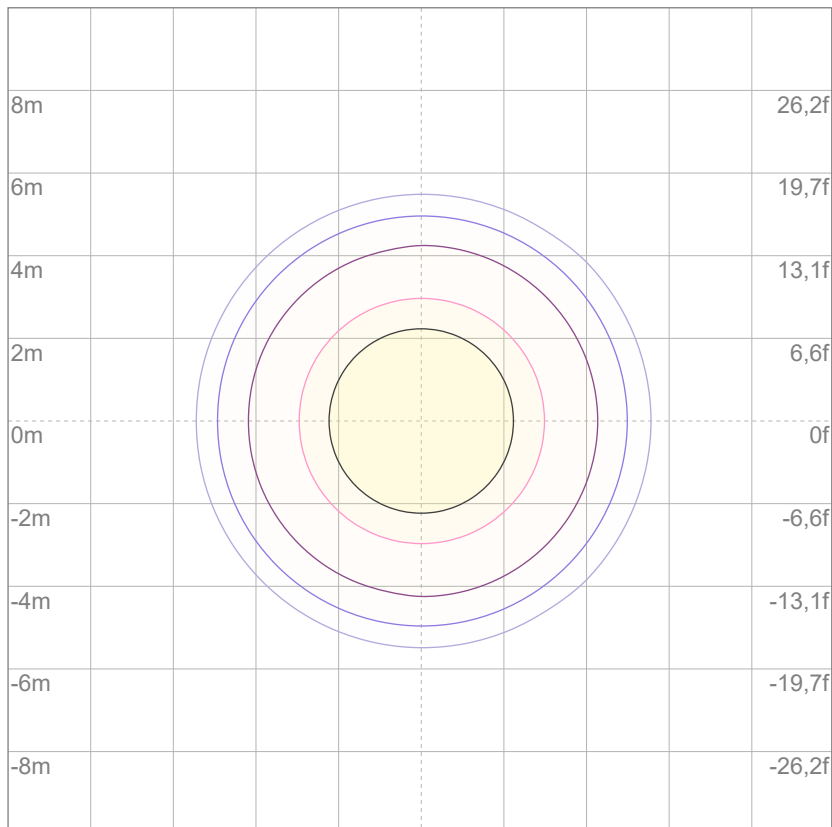
10%	189 cd
20%	379 cd
30%	568 cd
40%	757 cd
50%	947 cd
60%	1136 cd
70%	1325 cd
80%	1515 cd

Conditions:

Number of c-planes: 2

Candela at center: 1893 cd

ISO LUX DIAGRAM



3%	0,568 lx
5%	0,947 lx
10%	1,89 lx
30%	5,68 lx
50%	9,47 lx

Conditions:

Number of c-planes: 2

Lux at center: 18,9 lx

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



Total lumen output:

451 lm

Peak candela output:

733 cd

PRODUCT NAME:
SMARTBATPLUSG2

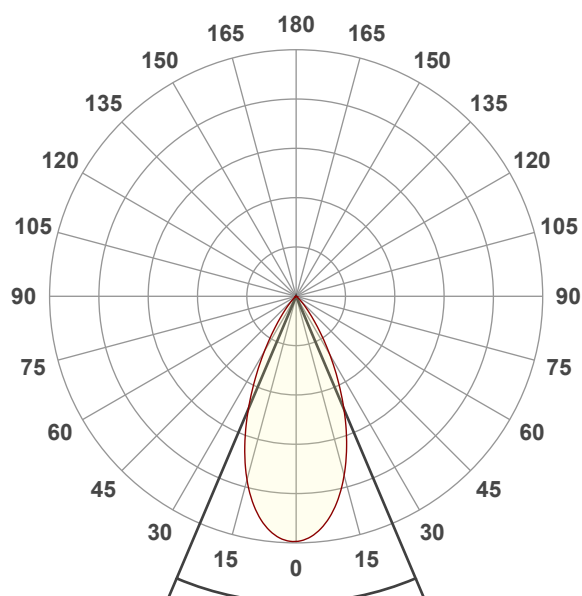
MEASUREMENT CONDITIONS:

Beam angle:
40° Filter

Target:
Red Cal.Off.

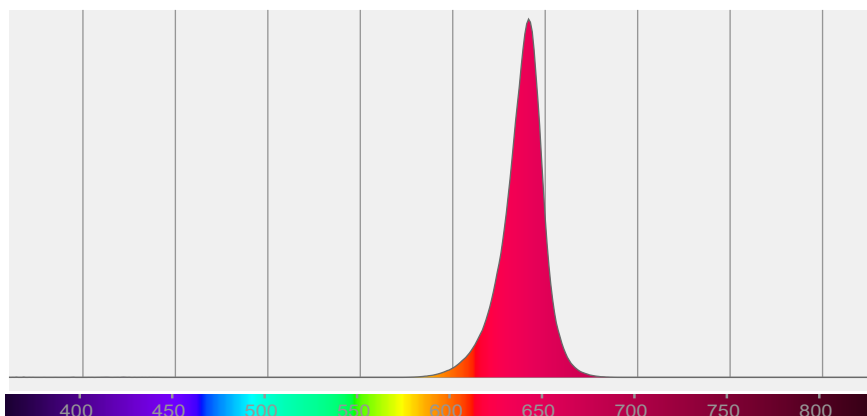
Operator:
Paolo Carvone

Date and time:
13/06/2022 14:41:06



Beam angle 50%: 45,9°
Field angle 10%: 74,7°
Cut off angle 2.5%: 90,7°

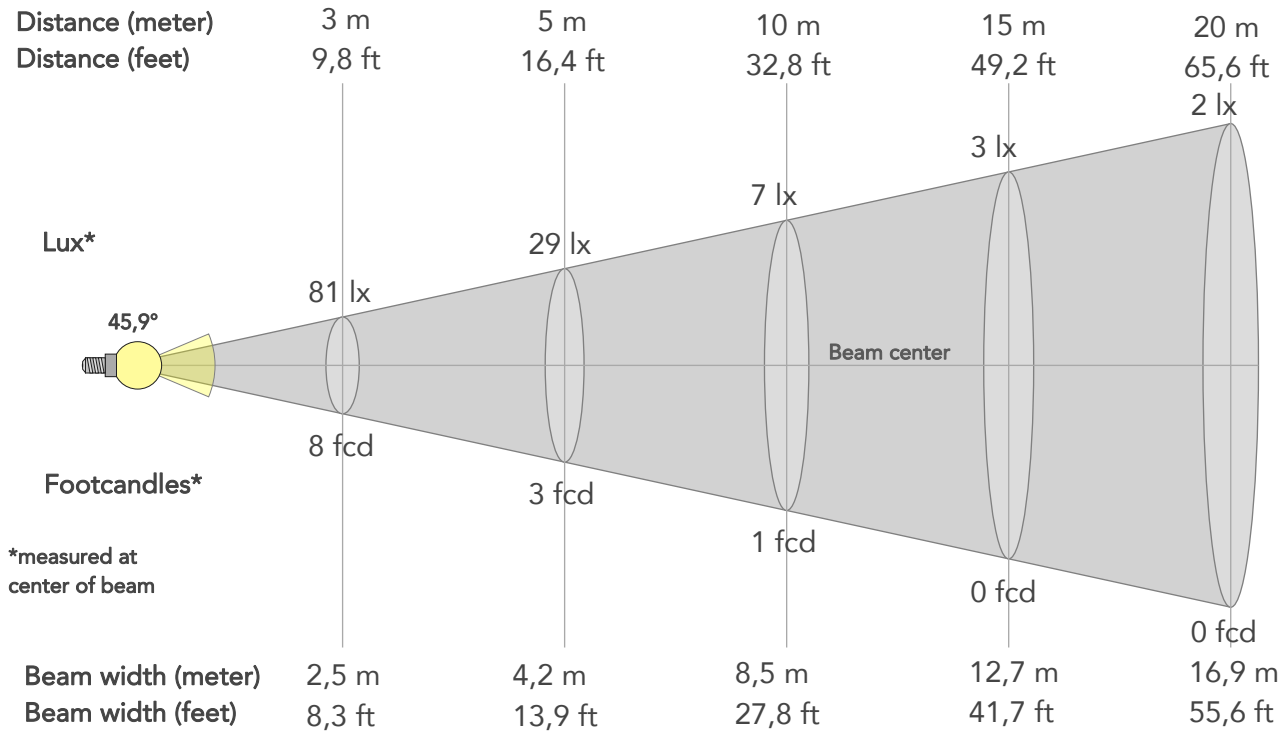
Spectra



BEAM DETAILS



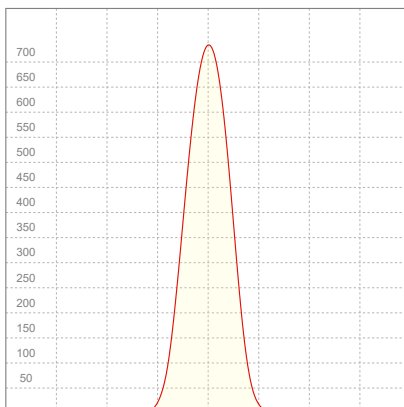
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45,9°	74,7°	90,7°	99,8%	98,1%



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	733lx	183lx	81lx	46lx	29lx	13lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	68fcd	17fcd	8fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,7m	2,5m	3,4m	4,2m	6,4m	8,5m	12,7m	16,9m	21,2m	25,4m	33,9m	42,4m
Beam wid.	2,8ft	5,6ft	8,3ft	11,1ft	13,9ft	20,8ft	27,8ft	41,7ft	55,6ft	69,5ft	83,4ft	111,2ft	139ft

LINEAR DISTRIBUTION DIAGRAM

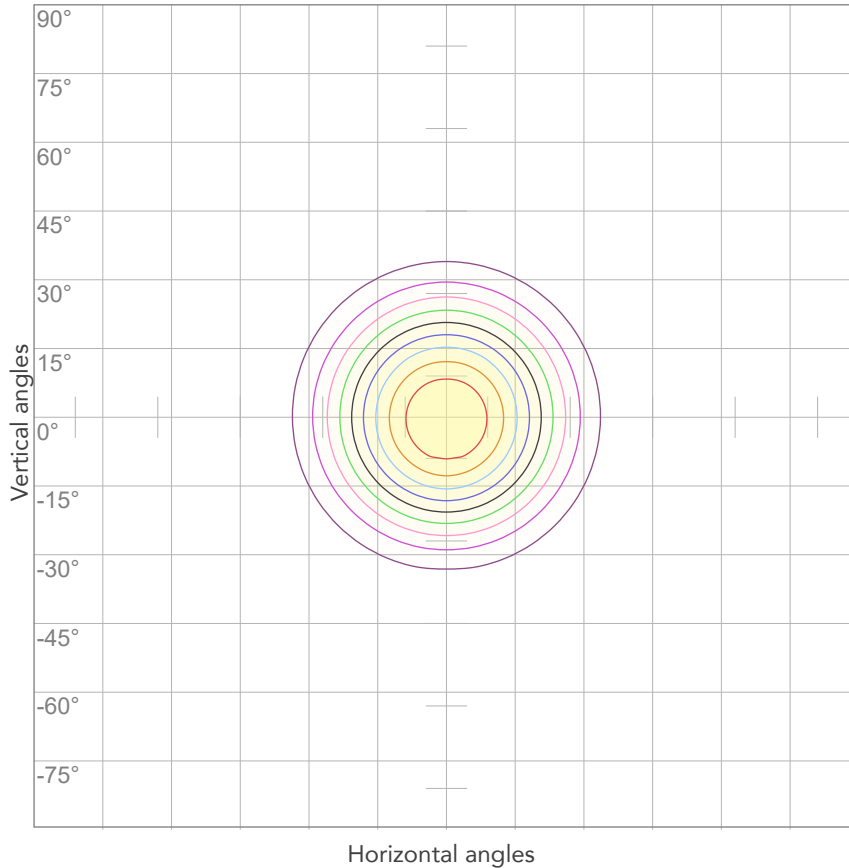


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,185A	18,3W	25lm/W

Power FC
0,44

ISO CANDELA DIAGRAM

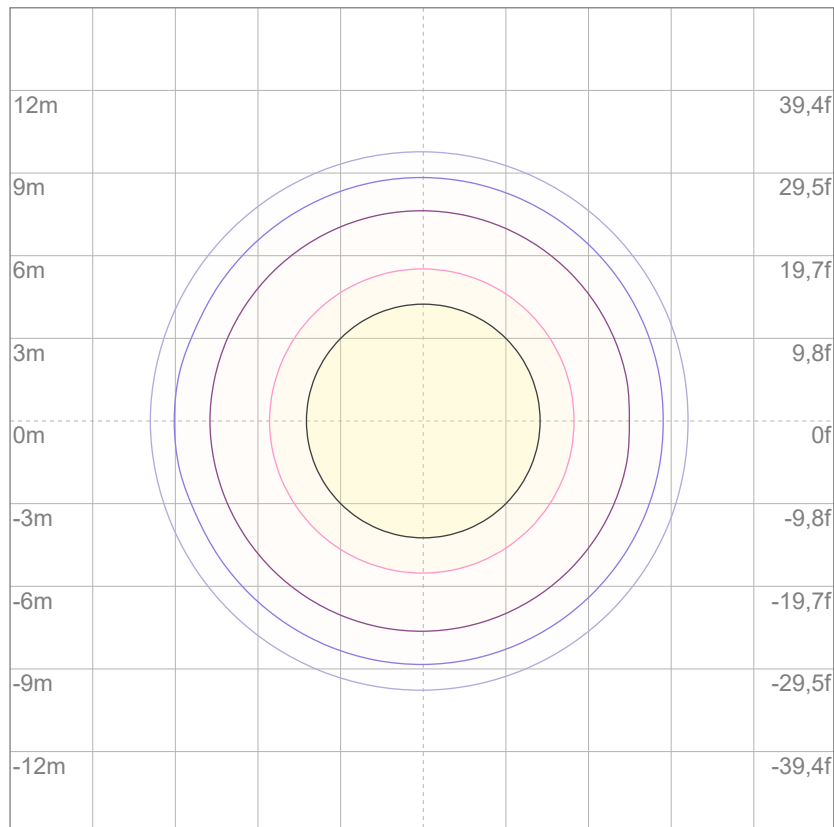


10%	73 cd
20%	147 cd
30%	220 cd
40%	293 cd
50%	366 cd
60%	440 cd
70%	513 cd
80%	586 cd

Conditions:

Number of c-planes: 2
Candela at center: 733 cd

ISO LUX DIAGRAM



3%	0,220 lx
5%	0,366 lx
10%	0,733 lx
30%	2,20 lx
50%	3,66 lx

Conditions:

Number of c-planes: 2
Lux at center: 7,33 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:

450 lm

Peak candela output:

561 cd

PRODUCT NAME:
SMARTBATPLUSG2

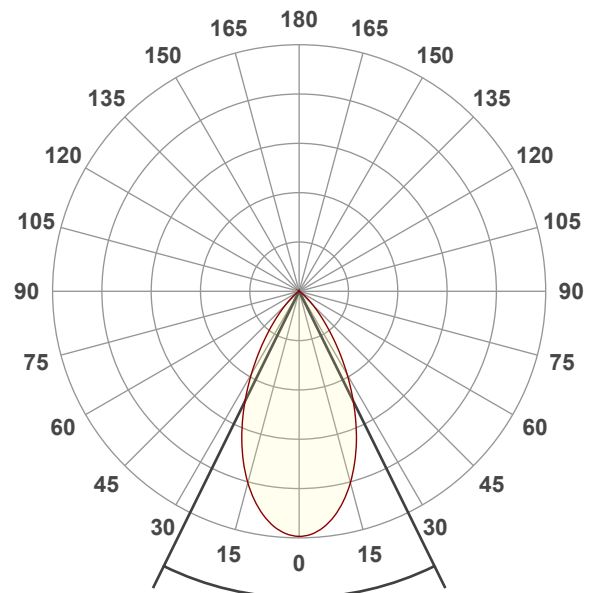
MEASUREMENT CONDITIONS:

Beam angle:
60° Filter

Target:
Red Cal.Off.

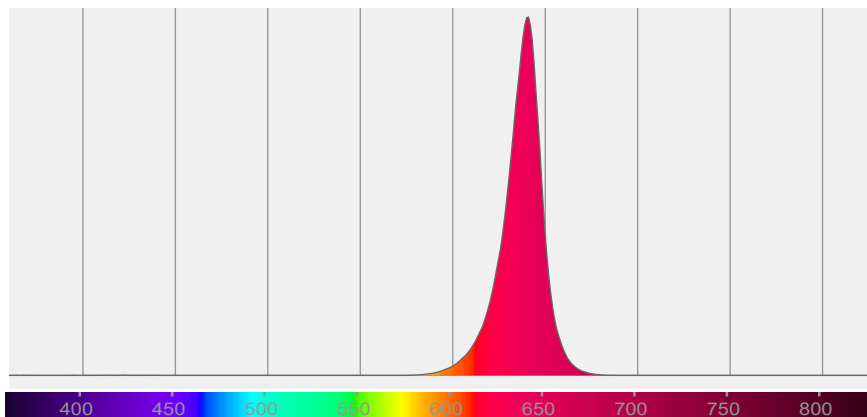
Operator:
Paolo Carvone

Date and time:
13/06/2022 14:16:16



Beam angle 50%: 52,4°
Field angle 10%: 86,9°
Cut off angle 2.5%: 103,6°

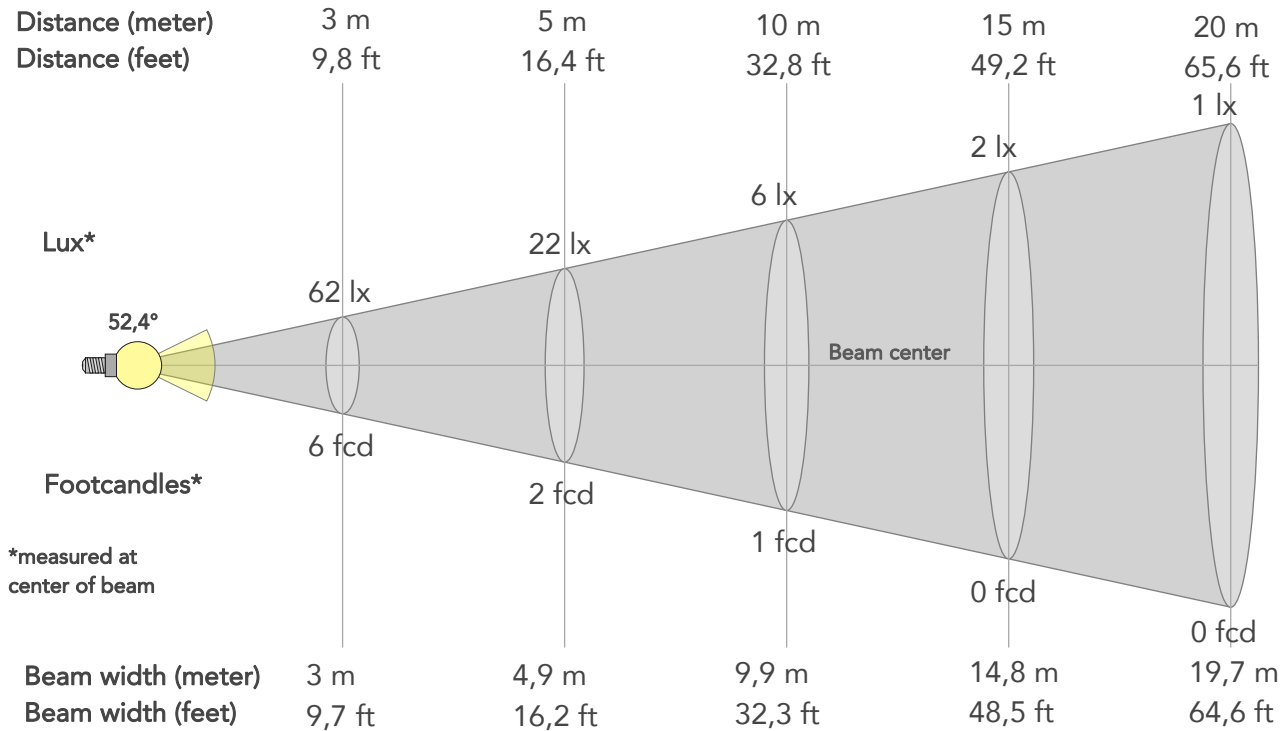
Spectra



BEAM DETAILS



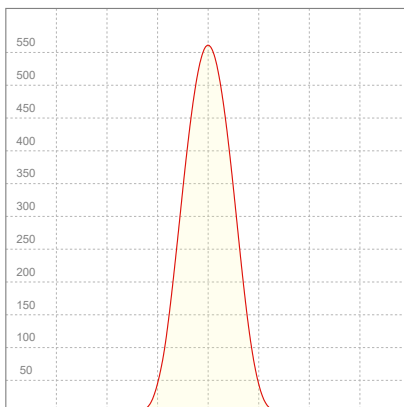
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,4°	86,9°	103,6°	99,6%	95,0%



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	561lx	140lx	62lx	35lx	22lx	10lx	6lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	52fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	3,9m	4,9m	7,4m	9,9m	14,8m	19,7m	24,6m	29,6m	39,4m	49,3m
Beam wid.	3,3ft	6,5ft	9,7ft	12,9ft	16,2ft	24,2ft	32,3ft	48,5ft	64,6ft	80,8ft	96,9ft	129,3ft	161,6ft

LINEAR DISTRIBUTION DIAGRAM

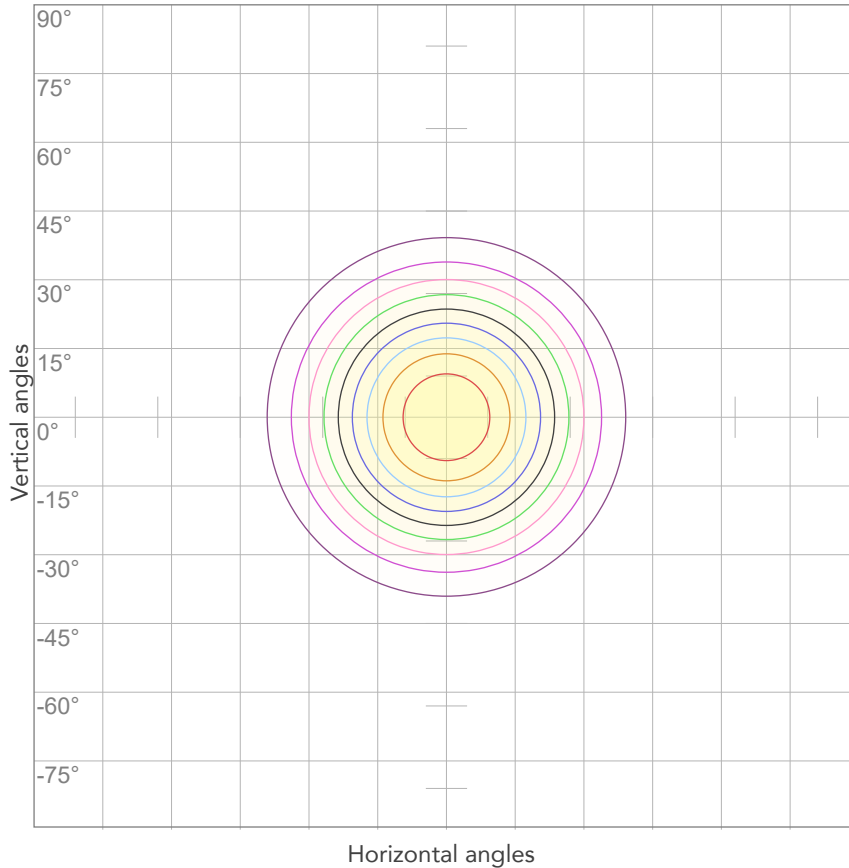


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,183A	18,4W	24lm/W

Power FC
0,44

ISO CANDELA DIAGRAM

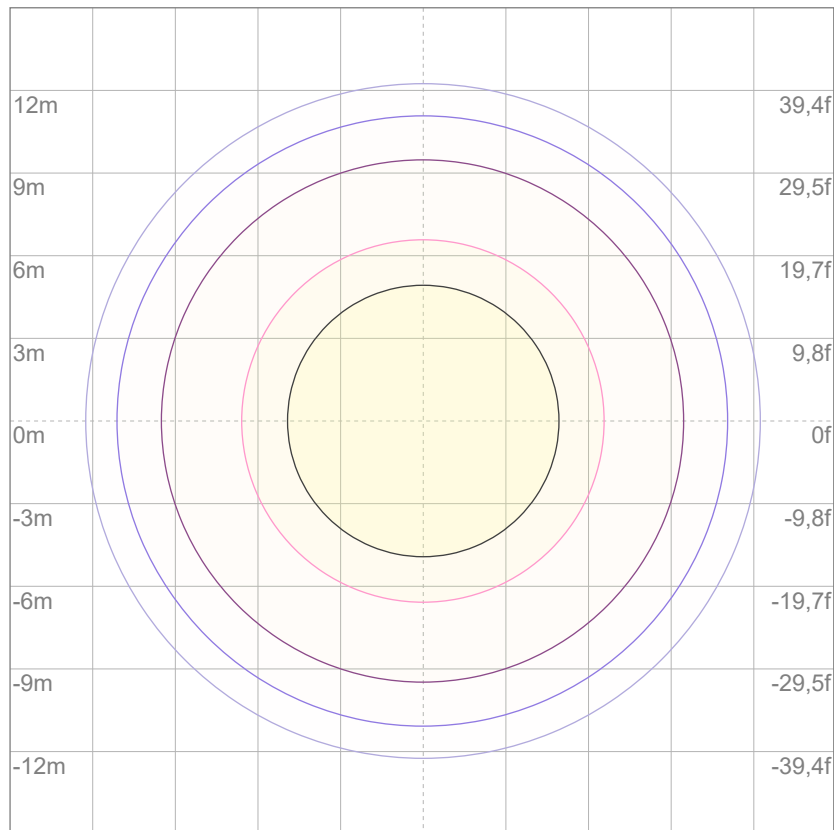


10%	56 cd
20%	112 cd
30%	168 cd
40%	224 cd
50%	280 cd
60%	337 cd
70%	393 cd
80%	449 cd

Conditions:

Number of c-planes: 2
Candela at center: 561 cd

ISO LUX DIAGRAM



3%	0,168 lx
5%	0,280 lx
10%	0,561 lx
30%	1,68 lx
50%	2,80 lx

Conditions:

Number of c-planes: 2
Lux at center: 5,61 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:

661 lm

Peak candela output:

1255 cd

PRODUCT NAME:

SMARTBATPLUSG2

MEASUREMENT CONDITIONS:

Beam angle:

1060 Filter

Target:

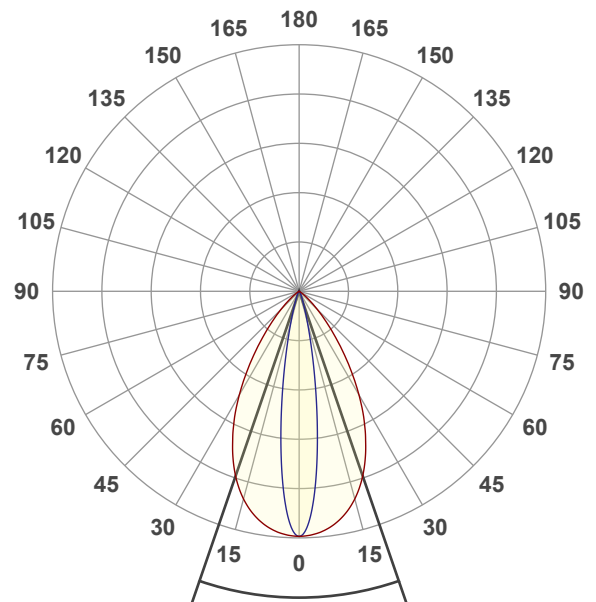
Red On Cal.Off.

Operator:

Paolo Carvone

Date and time:

10/06/2022 13:18:27

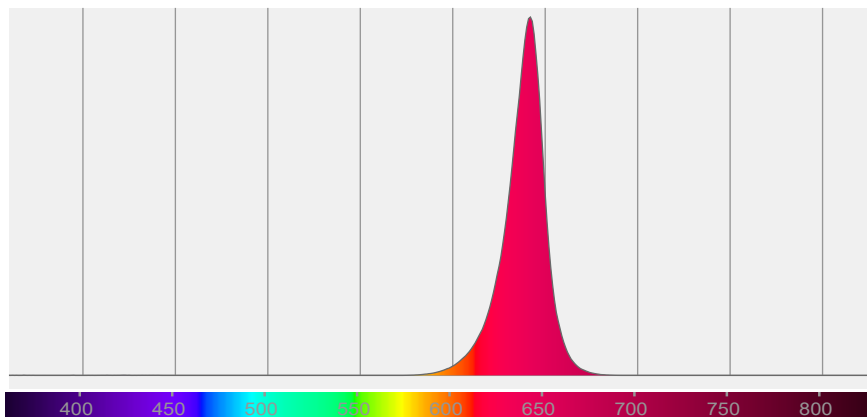


Beam angle 50%: 38°

Field angle 10%: 61,5°

Cut off angle 2.5%: 76°

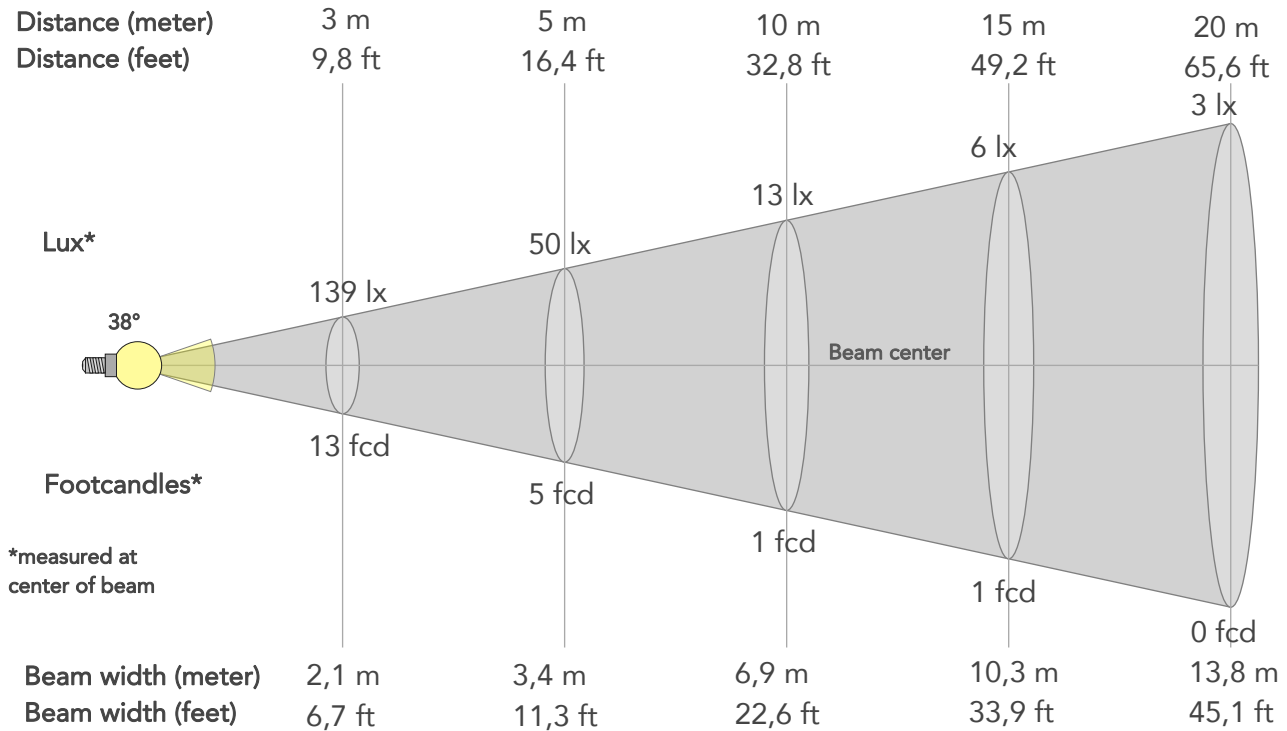
Spectra



BEAM DETAILS



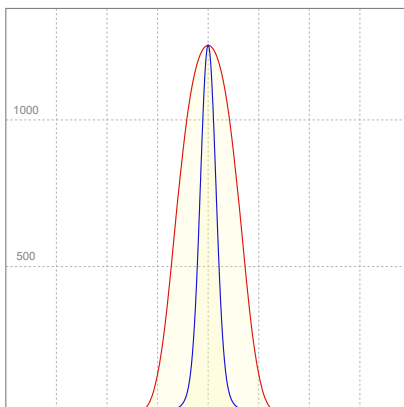
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38°	61,5°	76°	99,8%	95,3%



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	1254lx	314lx	139lx	78lx	50lx	22lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	117fcd	29fcd	13fcd	7fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,4m	5,2m	6,9m	10,3m	13,8m	17,2m	20,6m	27,5m	34,4m
Beam wid.	2,3ft	4,5ft	6,7ft	9ft	11,3ft	16,9ft	22,6ft	33,9ft	45,1ft	56,4ft	67,7ft	90,3ft	112,9ft

LINEAR DISTRIBUTION DIAGRAM

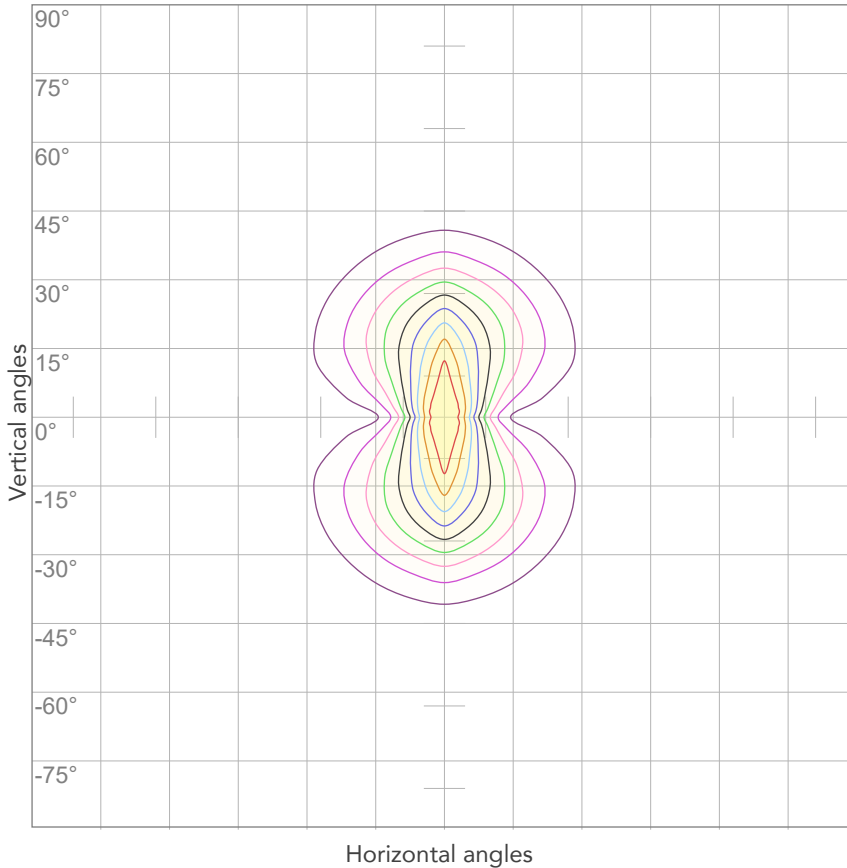


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,209A	18,3W	36lm/W

Power FC
0,39

ISO CANDELA DIAGRAM



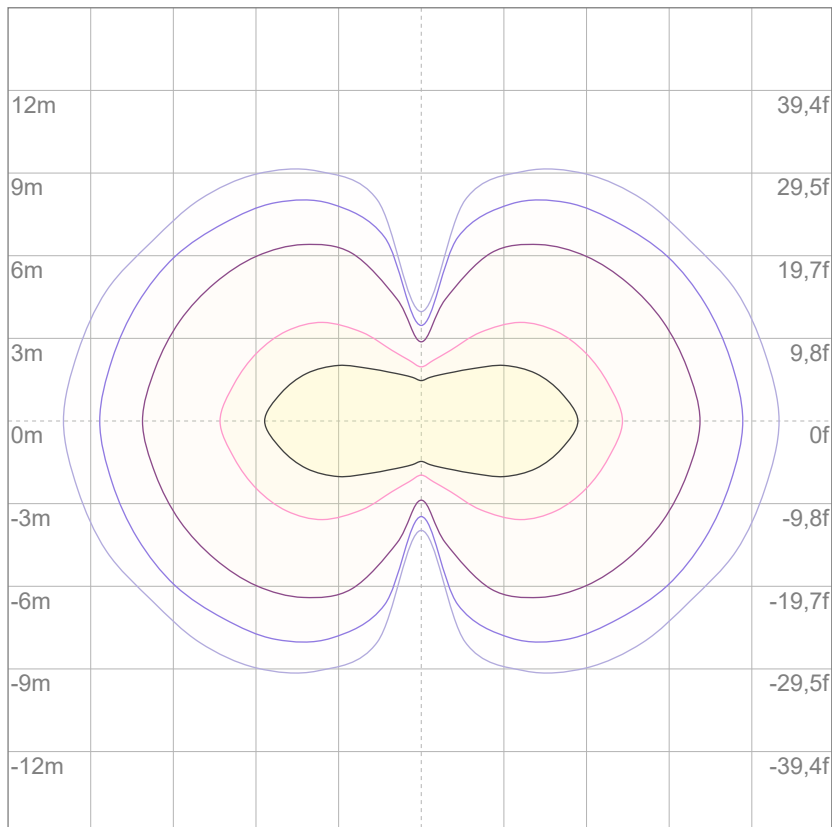
10%	125 cd
20%	251 cd
30%	376 cd
40%	502 cd
50%	627 cd
60%	753 cd
70%	878 cd
80%	1003 cd

Conditions:

Number of c-planes: 4

Candela at center: 1254 cd

ISO LUX DIAGRAM



3%	0,376 lx
5%	0,627 lx
10%	1,25 lx
30%	3,76 lx
50%	6,27 lx

Conditions:

Number of c-planes: 4

Lux at center: 12,5 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

814 lm

Peak candela output:

15866 cd

PRODUCT NAME:
SMARTBATPLUSG2

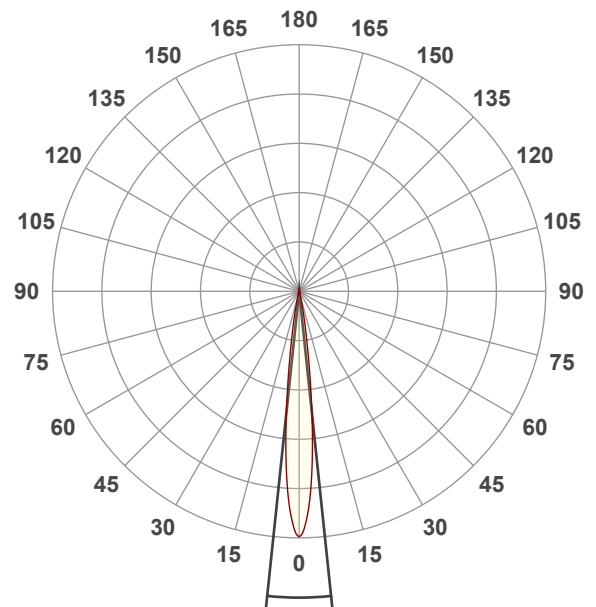
MEASUREMENT CONDITIONS:

Beam angle:
Native Optic (Without Filter)

Target:
Green Cal.Off.

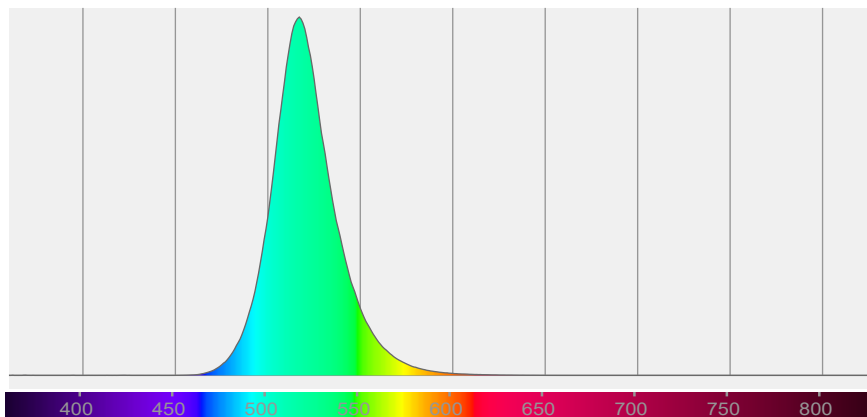
Operator:
Paolo Carvone

Date and time:
10/06/2022 12:45:29

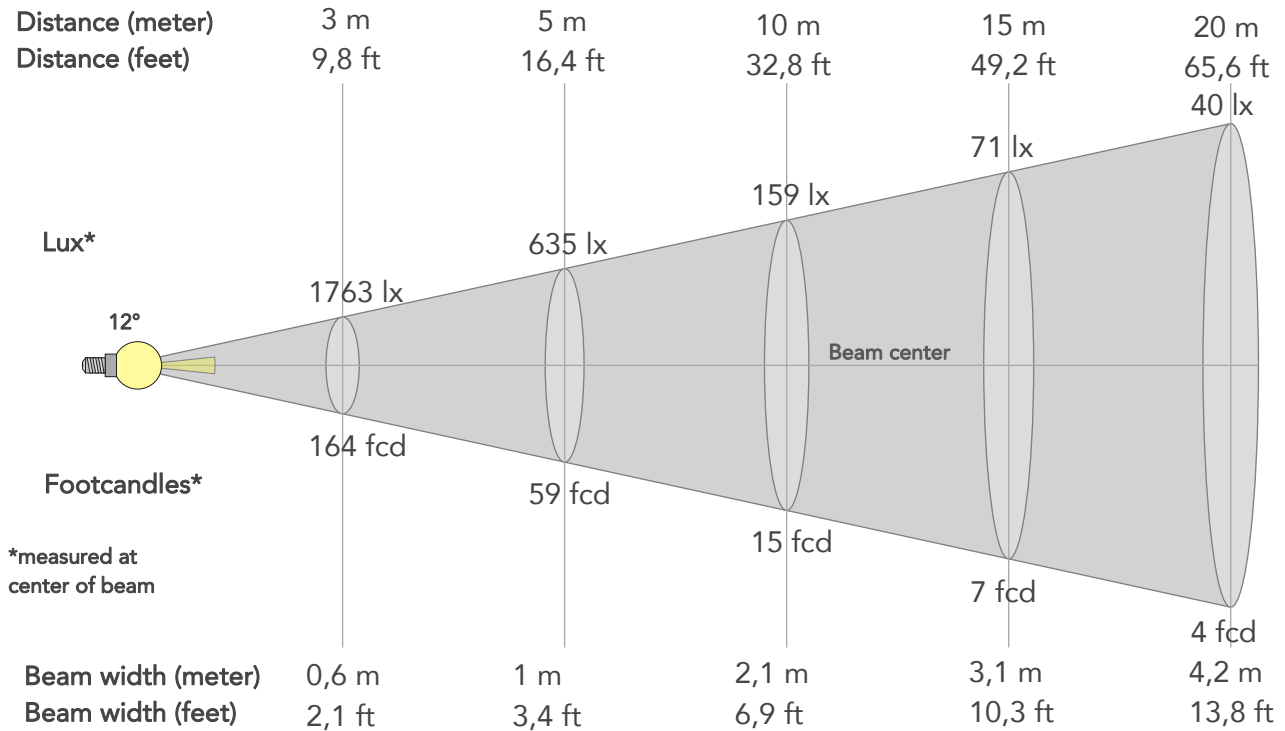


Beam angle 50%: 12°
Field angle 10%: 21,5°
Cut off angle 2.5%: 28,5°

Spectra



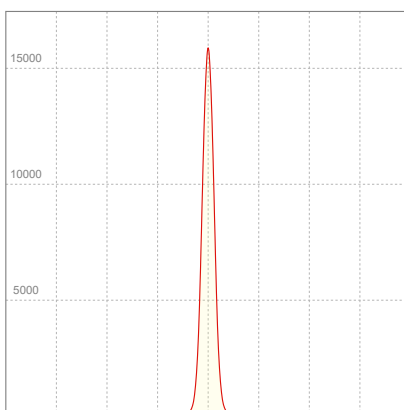
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
12°	21,5°	28,5°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	15866lx	3967lx	1763lx	992lx	635lx	282lx	159lx	71lx	40lx	25lx	18lx	10lx	6lx
Footcand.	1474fcd	369fcd	164fcd	92fcd	59fcd	26fcd	15fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,6m	2,1m	3,1m	4,2m	5,2m	6,3m	8,4m	10,5m
Beam wid.	0,7ft	1,4ft	2,1ft	2,7ft	3,4ft	5,2ft	6,9ft	10,3ft	13,8ft	17,2ft	20,6ft	27,5ft	34,4ft

LINEAR DISTRIBUTION DIAGRAM

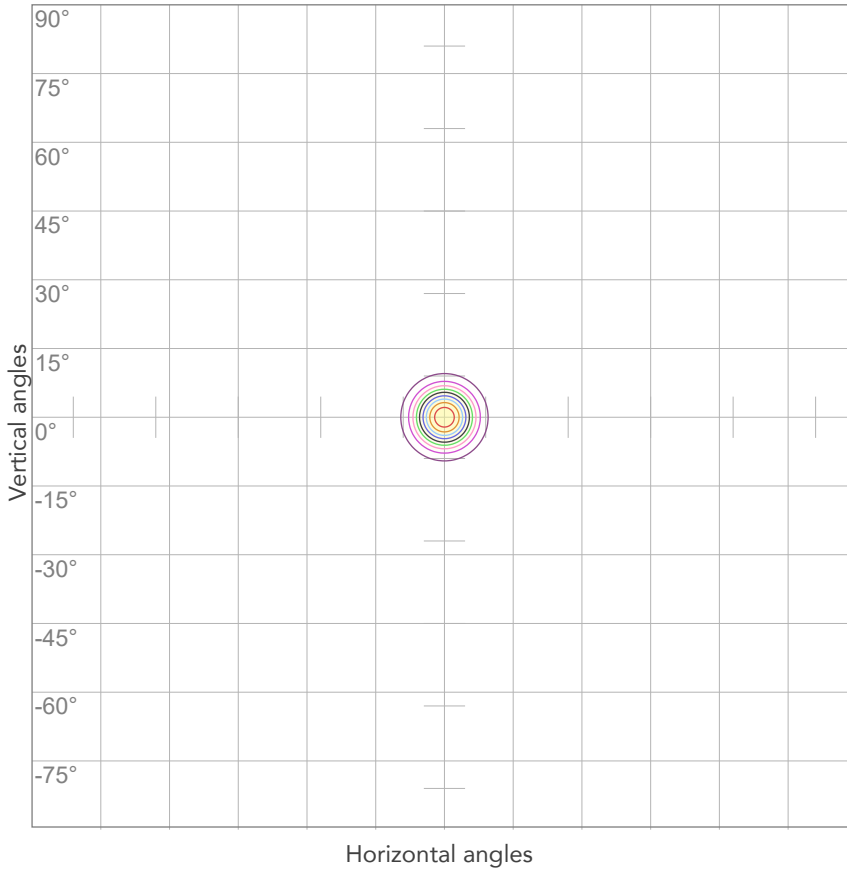


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,249A	22,3W	37lm/W

Power FC
0,4

ISO CANDELA DIAGRAM



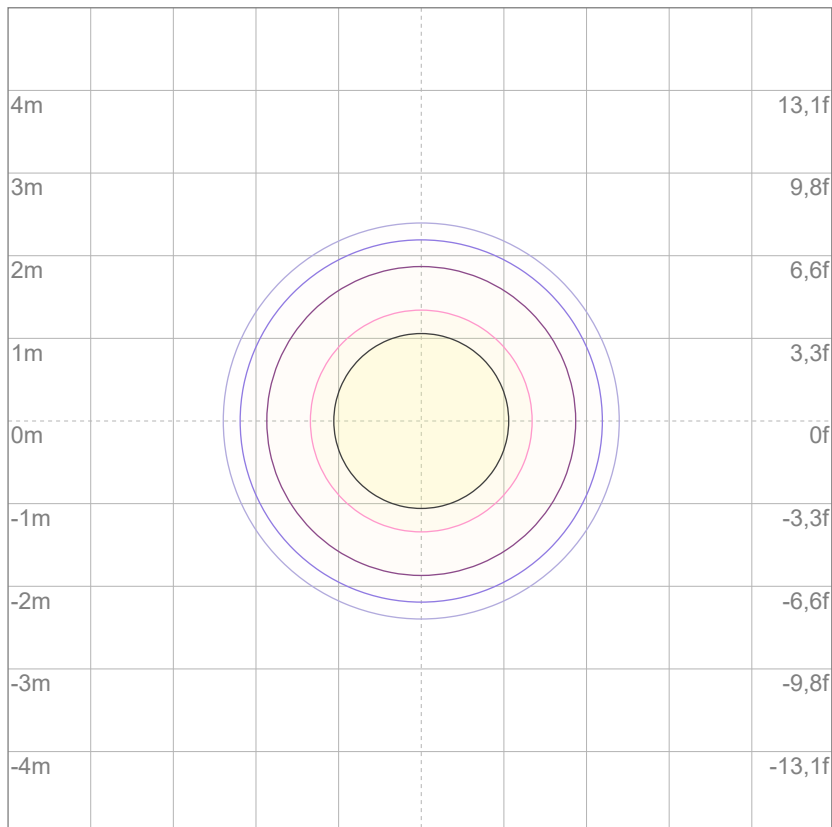
10%	1587 cd
20%	3173 cd
30%	4760 cd
40%	6346 cd
50%	7933 cd
60%	9520 cd
70%	11106 cd
80%	12693 cd

Conditions:

Number of c-planes: 2

Candela at center: 15866 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,76 lx
5%	7,93 lx
10%	15,9 lx
30%	47,6 lx
50%	79,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 159 lx

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



Total lumen output:

793 lm

Peak candela output:

3387 cd

PRODUCT NAME:
SMARTBATPLUSG2

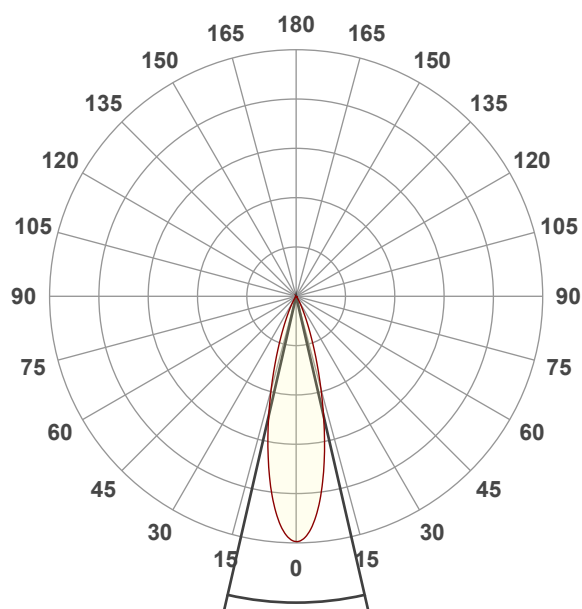
MEASUREMENT CONDITIONS:

Beam angle:
20° Filter

Target:
Green Cal.Off.

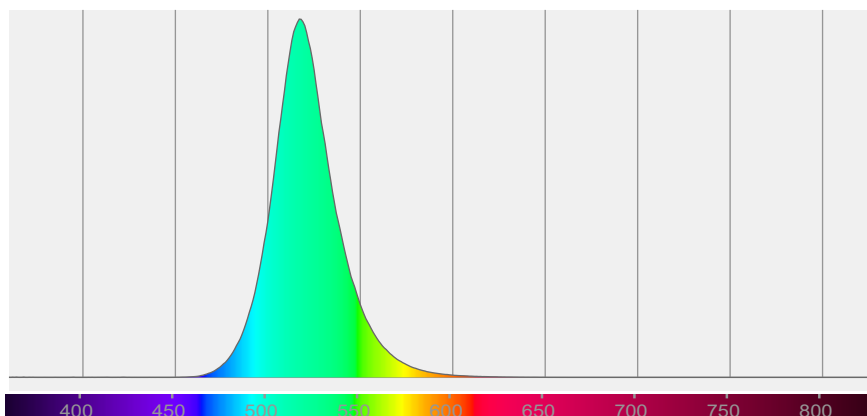
Operator:
Paolo Carvone

Date and time:
13/06/2022 15:04:49



Beam angle 50%: 25,8°
Field angle 10%: 47,4°
Cut off angle 2.5%: 61,7°

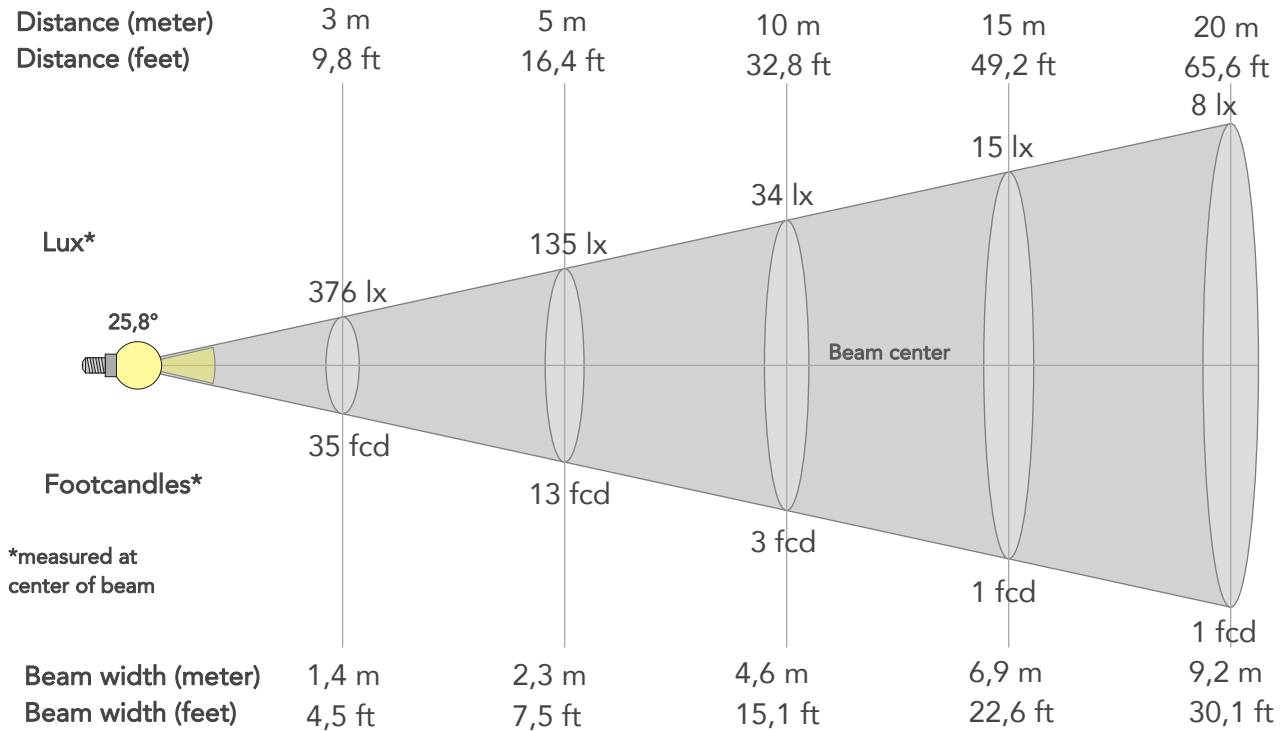
Spectra



BEAM DETAILS



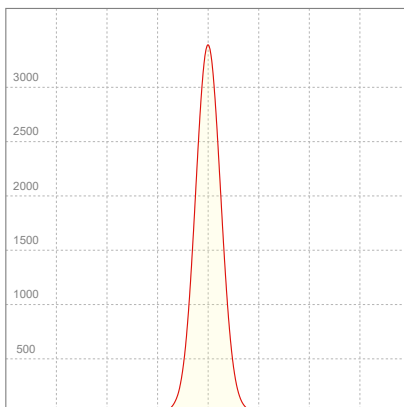
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,8°	47,4°	61,7°	100,0%	99,7%



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	3383lx	846lx	376lx	211lx	135lx	60lx	34lx	15lx	8lx	5lx	4lx	2lx	1lx
Footcand.	314fcd	79fcd	35fcd	20fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,6m	6,9m	9,2m	11,5m	13,8m	18,4m	22,9m
Beam wid.	1,5ft	3ft	4,5ft	6ft	7,5ft	11,3ft	15,1ft	22,6ft	30,1ft	37,6ft	45,2ft	60,2ft	75,3ft

LINEAR DISTRIBUTION DIAGRAM

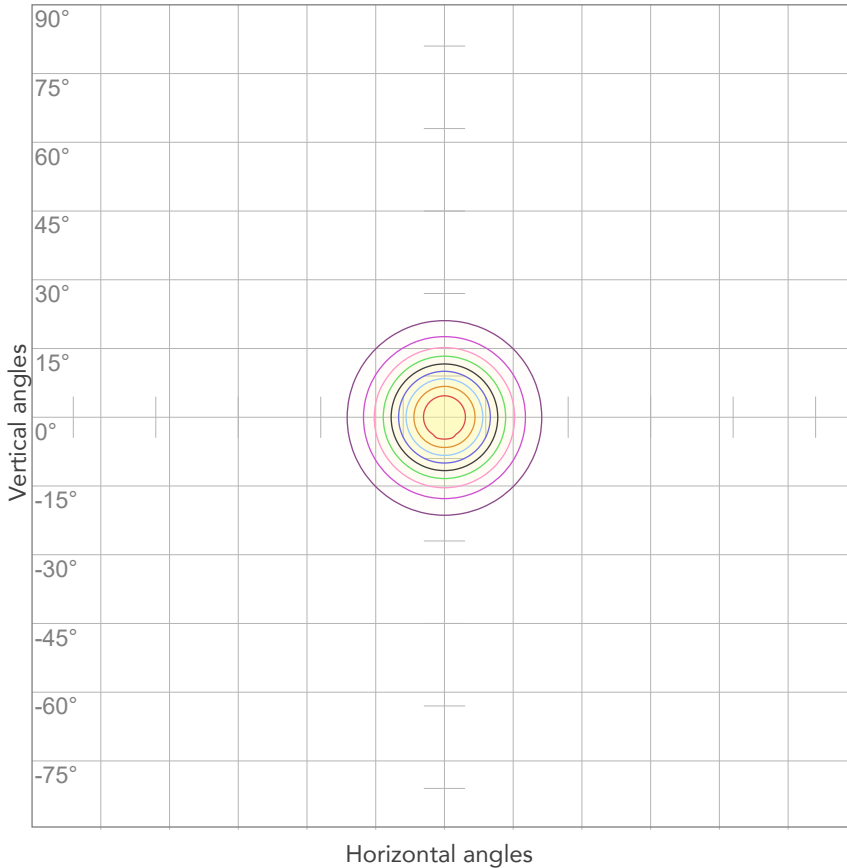


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,227A	21,8W	36lm/W

Power FC
0,43

ISO CANDELA DIAGRAM



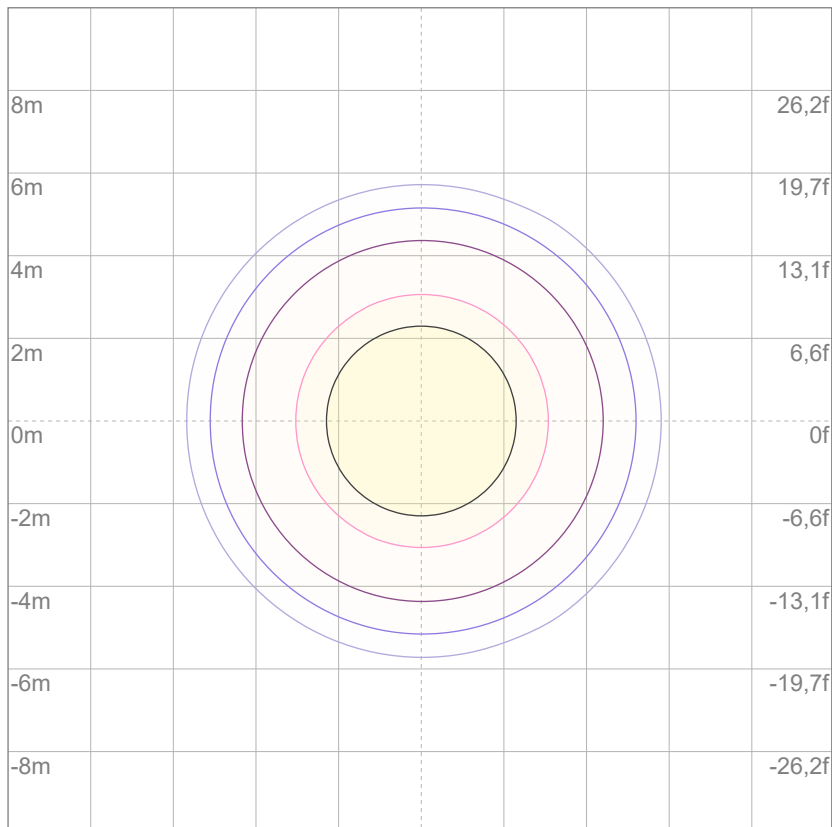
10%	338 cd
20%	677 cd
30%	1015 cd
40%	1353 cd
50%	1692 cd
60%	2030 cd
70%	2368 cd
80%	2707 cd

Conditions:

Number of c-planes: 2

Candela at center: 3383 cd

ISO LUX DIAGRAM



3%	1,01 lx
5%	1,69 lx
10%	3,38 lx
30%	10,1 lx
50%	16,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 33,8 lx

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



Total lumen output:

807 lm

Peak candela output:

1251 cd

PRODUCT NAME:
SMARTBATPLUSG2

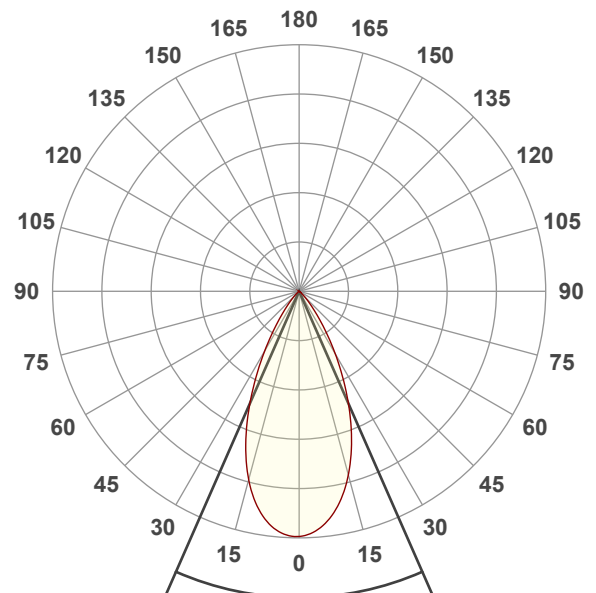
MEASUREMENT CONDITIONS:

Beam angle:
40° Filter

Target:
Green Cal.Off.

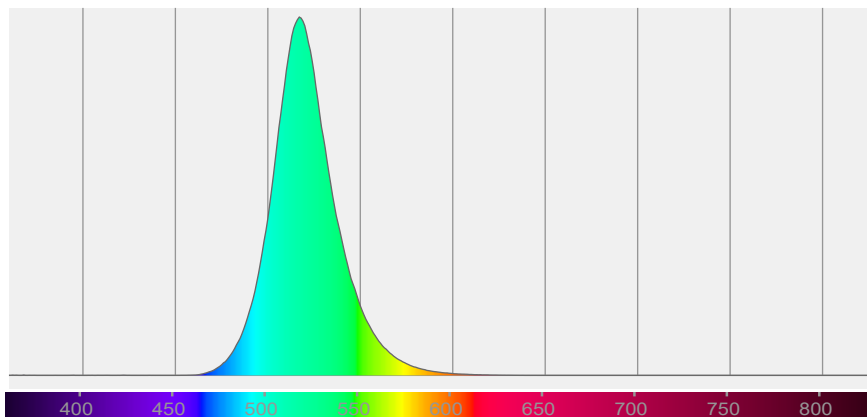
Operator:
Paolo Carvone

Date and time:
13/06/2022 14:42:46



Beam angle 50%: 47,4°
Field angle 10%: 76°
Cut off angle 2.5%: 92,1°

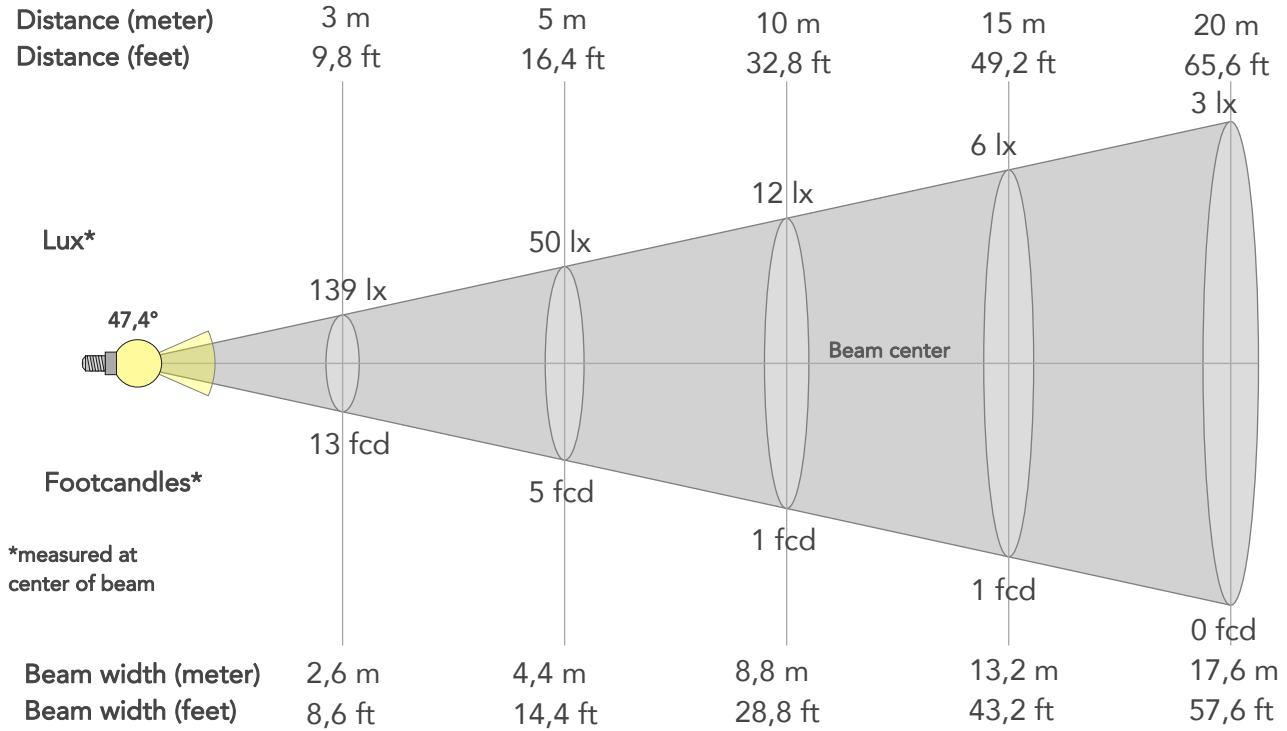
Spectra



BEAM DETAILS



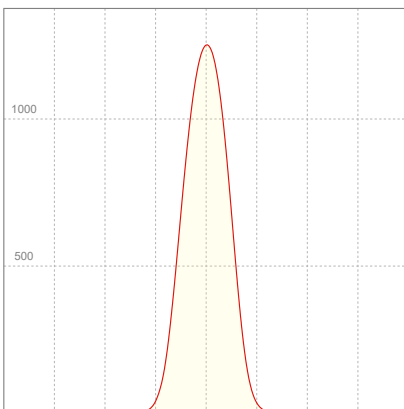
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47,4°	76°	92,1°	99,9%	98,0%



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	1250lx	312lx	139lx	78lx	50lx	22lx	12lx	6lx	3lx	2lx	1lx	1lx	0lx
Footcand.	116fcd	29fcd	13fcd	7fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,6m	3,5m	4,4m	6,6m	8,8m	13,2m	17,6m	22m	26,3m	35,1m	43,9m
Beam wid.	2,9ft	5,8ft	8,6ft	11,5ft	14,4ft	21,6ft	28,8ft	43,2ft	57,6ft	72ft	86,4ft	115,2ft	144ft

LINEAR DISTRIBUTION DIAGRAM

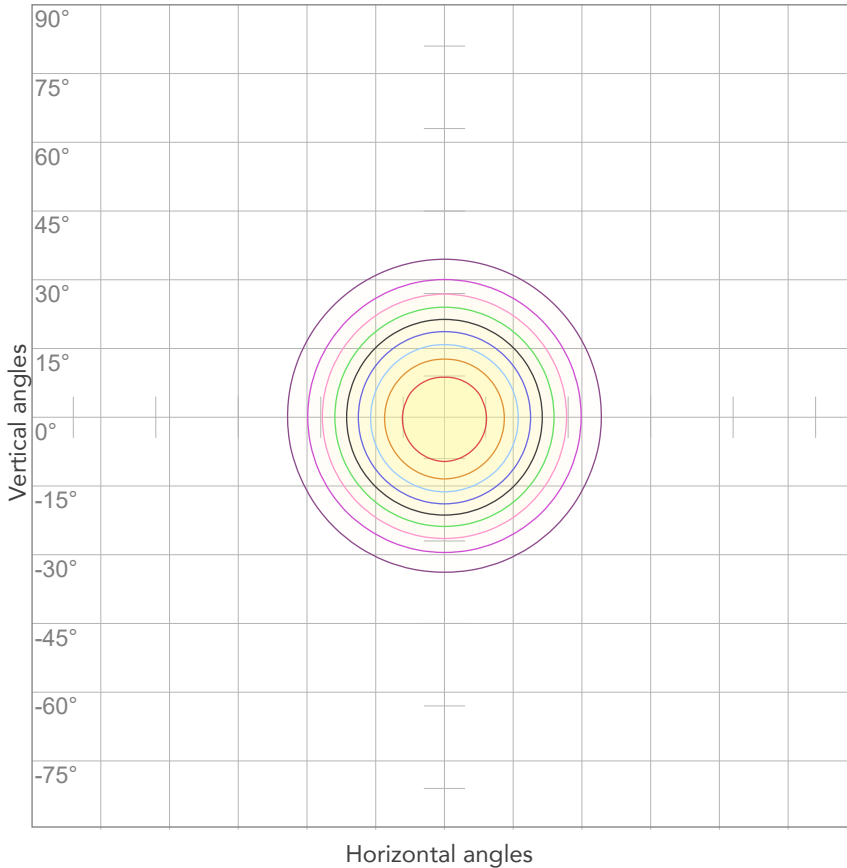


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,227A	21,9W	37lm/W

Power FC
0,42

ISO CANDELA DIAGRAM



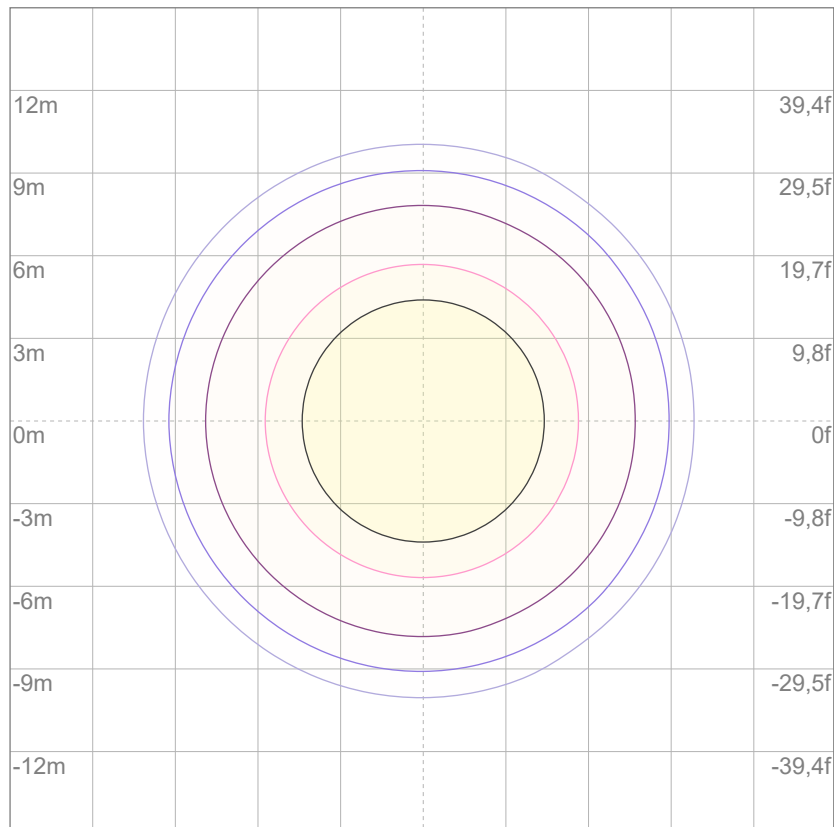
10%	125 cd
20%	250 cd
30%	375 cd
40%	500 cd
50%	625 cd
60%	750 cd
70%	875 cd
80%	1000 cd

Conditions:

Number of c-planes: 2

Candela at center: 1250 cd

ISO LUX DIAGRAM



3%	0,375 lx
5%	0,625 lx
10%	1,25 lx
30%	3,75 lx
50%	6,25 lx

Conditions:

Number of c-planes: 2

Lux at center: 12,5 lx

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



Total lumen output:

794 lm

Peak candela output:

943 cd

PRODUCT NAME:
SMARTBATPLUSG2

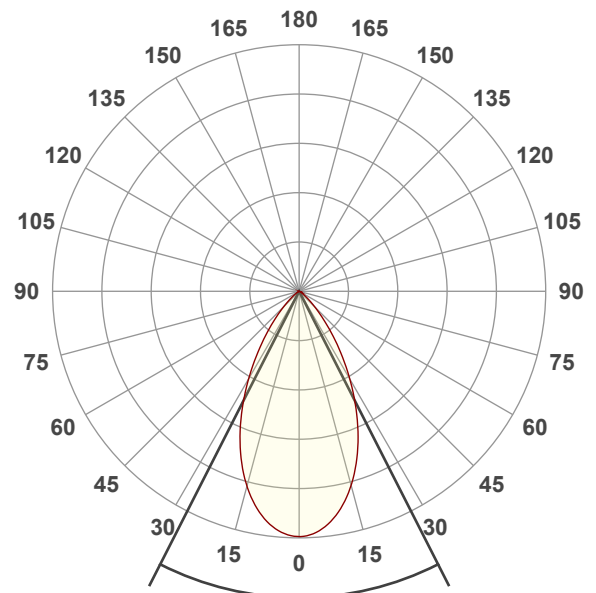
MEASUREMENT CONDITIONS:

Beam angle:
60° Filter

Target:
Green Cal.Off.

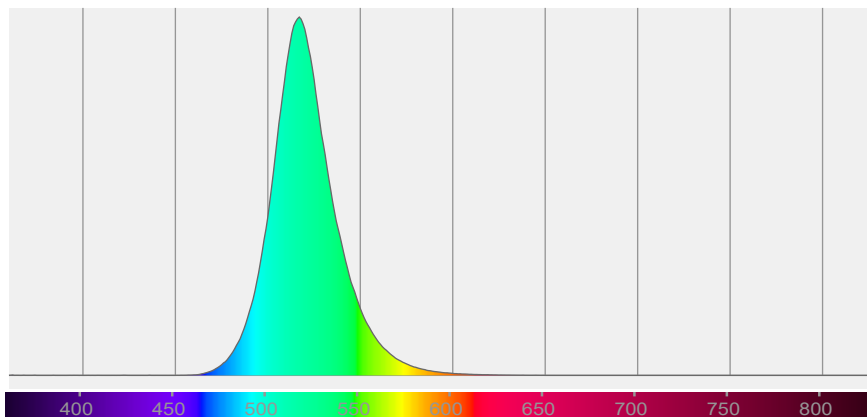
Operator:
Paolo Carvone

Date and time:
13/06/2022 14:19:48



Beam angle 50%: 53,9°
Field angle 10%: 88,6°
Cut off angle 2.5%: 106,6°

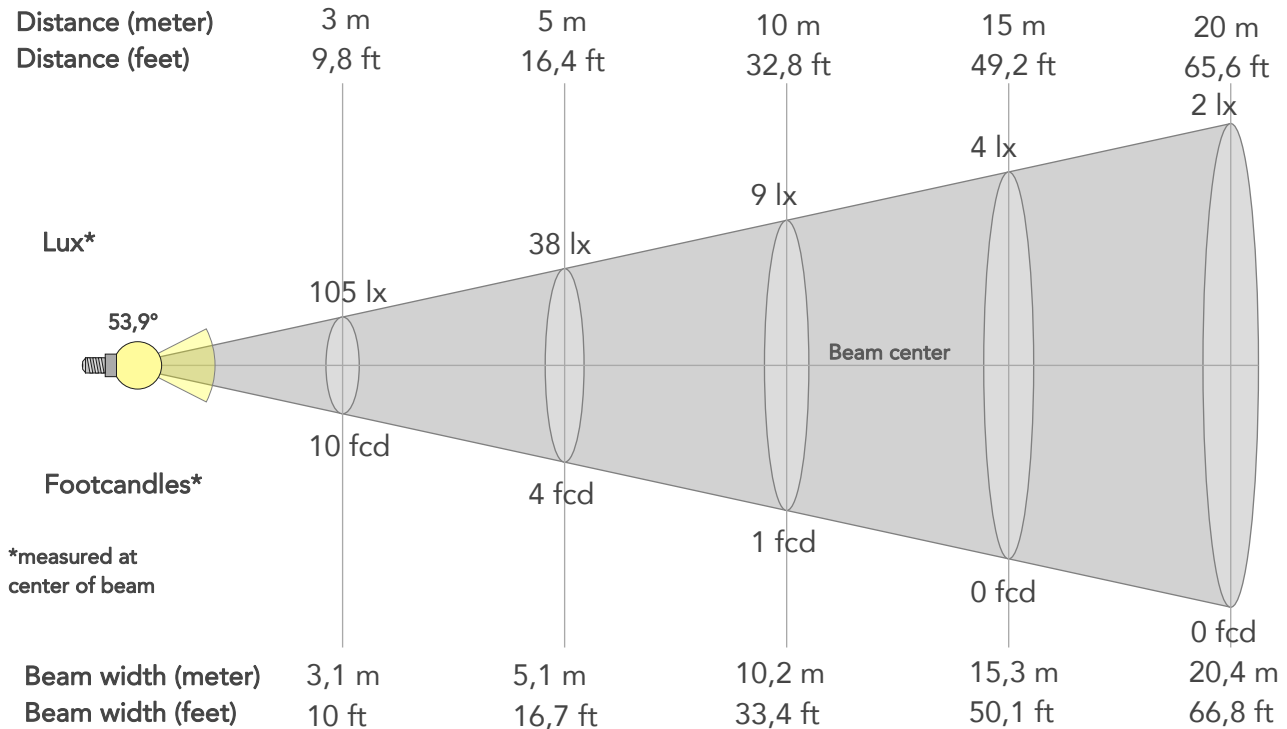
Spectra



BEAM DETAILS



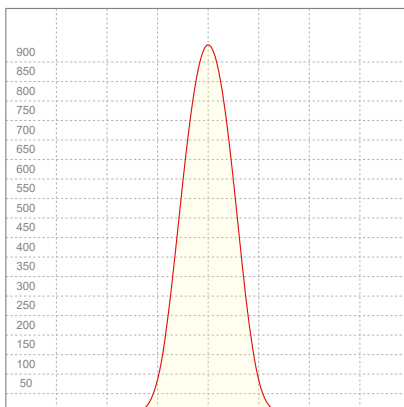
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,9°	88,6°	106,6°	99,5%	94,3%



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	942lx	236lx	105lx	59lx	38lx	17lx	9lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	88fcd	22fcd	10fcd	5fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3,1m	4,1m	5,1m	7,6m	10,2m	15,3m	20,4m	25,4m	30,5m	40,7m	50,9m
Beam wid.	3,4ft	6,7ft	10ft	13,3ft	16,7ft	25ft	33,4ft	50,1ft	66,8ft	83,5ft	100,1ft	133,5ft	166,9ft

LINEAR DISTRIBUTION DIAGRAM

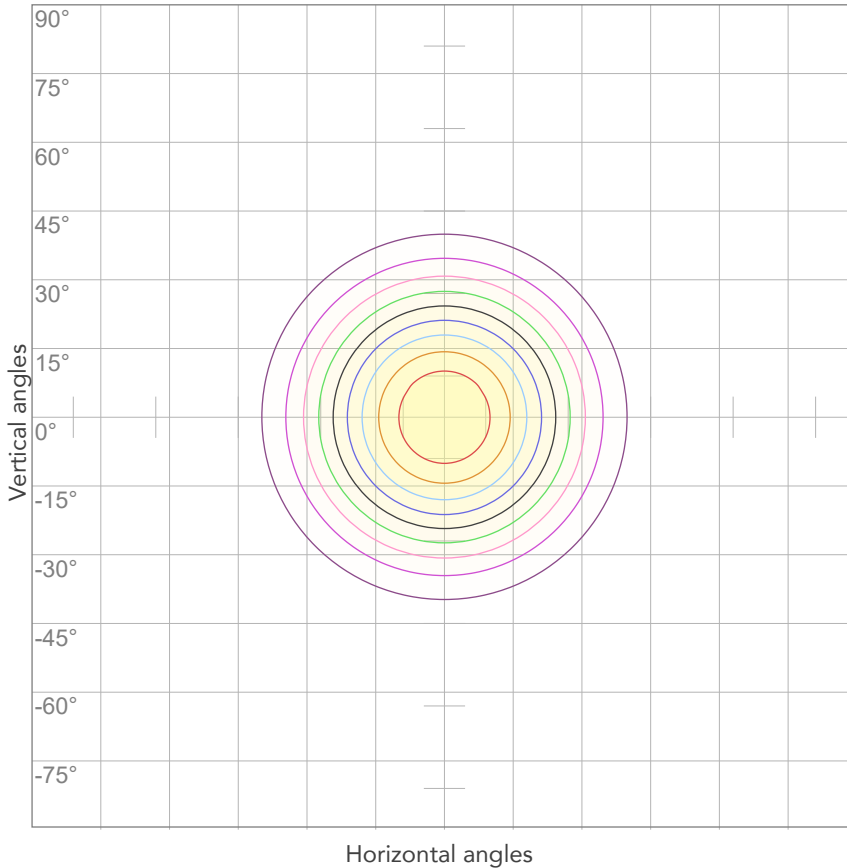


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,223A	22,2W	36lm/W

Power FC
0,44

ISO CANDELA DIAGRAM

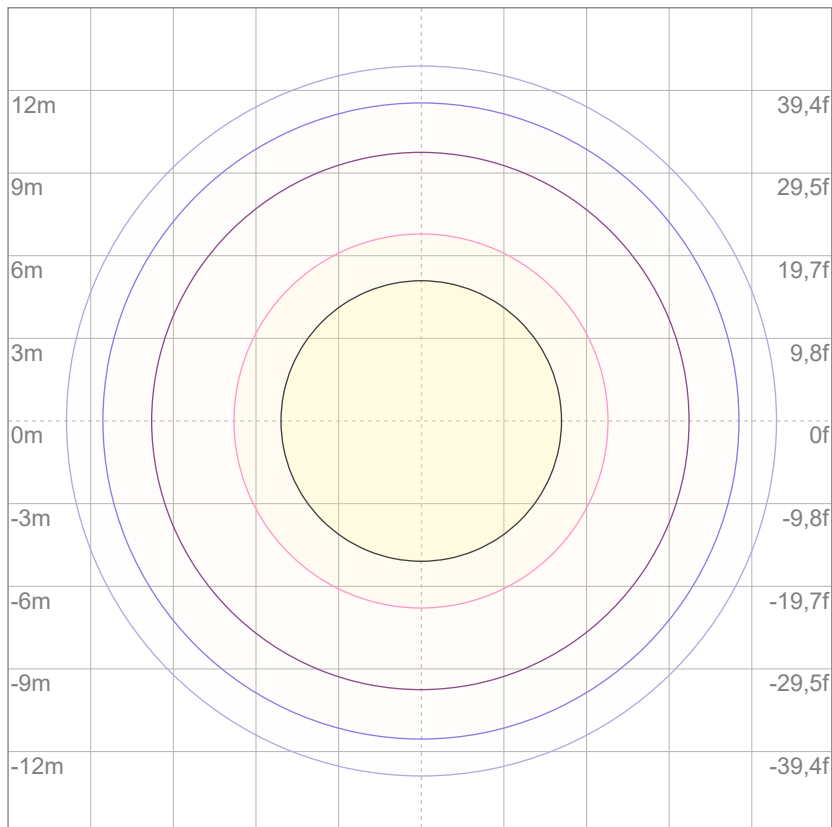


10%	94 cd
20%	188 cd
30%	283 cd
40%	377 cd
50%	471 cd
60%	565 cd
70%	659 cd
80%	754 cd

Conditions:

Number of c-planes: 2
Candela at center: 942 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,283 lx
5%	0,471 lx
10%	0,942 lx
30%	2,83 lx
50%	4,71 lx

Conditions:

Number of c-planes: 2
Lux at center: 9,42 lx

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



Total lumen output:

1226 lm

Peak candela output:

2219 cd

PRODUCT NAME:
SMARTBATPLUSG2

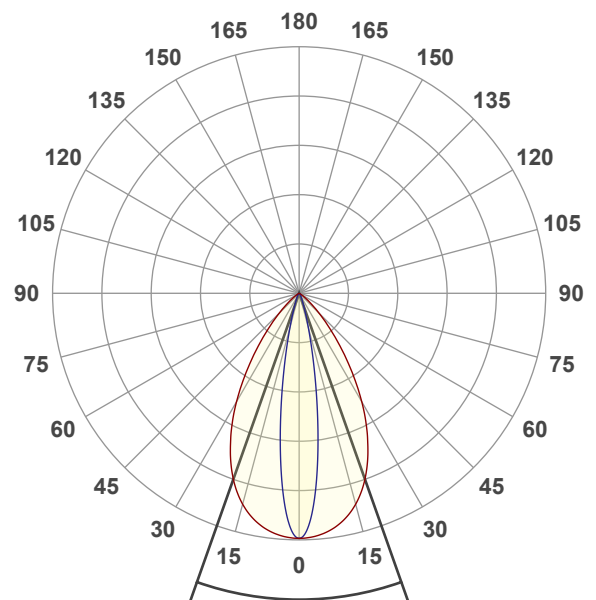
MEASUREMENT CONDITIONS:

Beam angle:
1060 Filter

Target:
Green On Cal.Off.

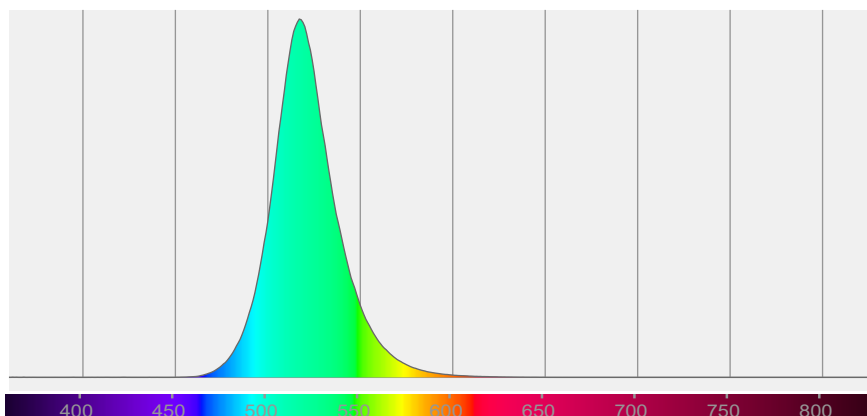
Operator:
Paolo Carvone

Date and time:
10/06/2022 13:21:12



Beam angle 50%: 39°
Field angle 10%: 63°
Cut off angle 2.5%: 78,9°

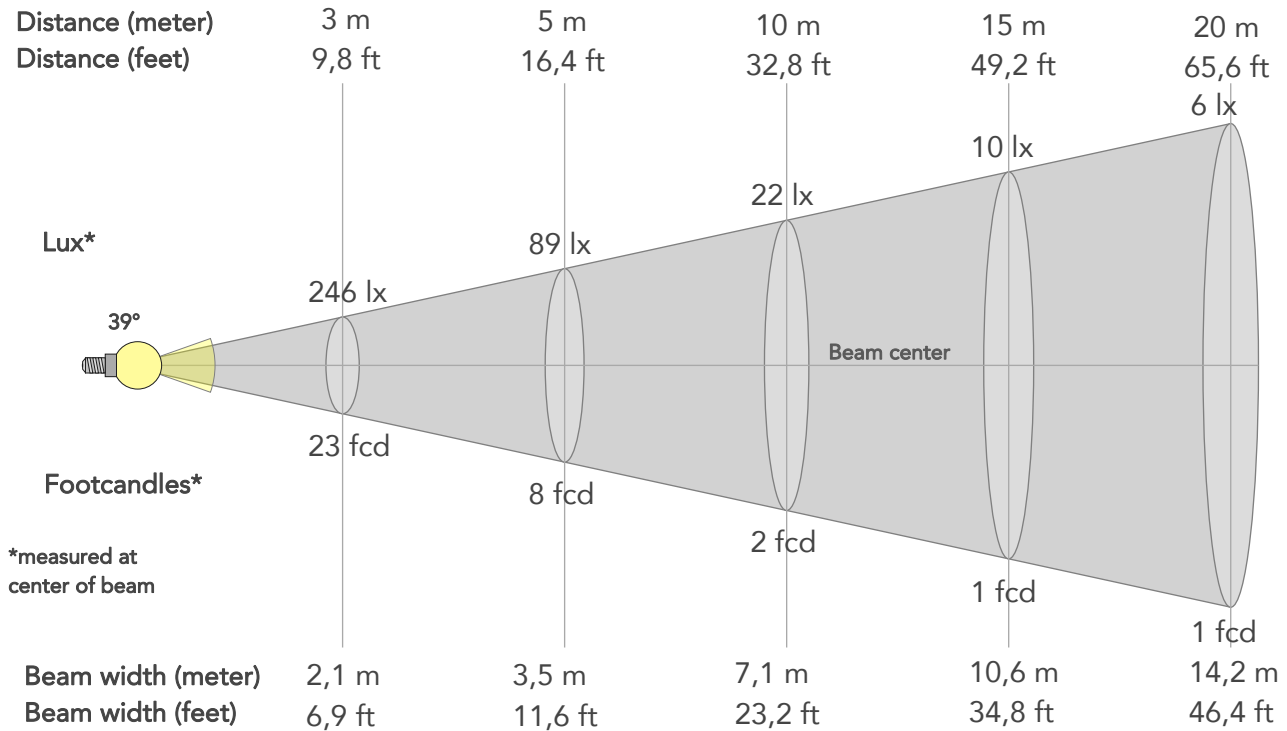
Spectra



BEAM DETAILS



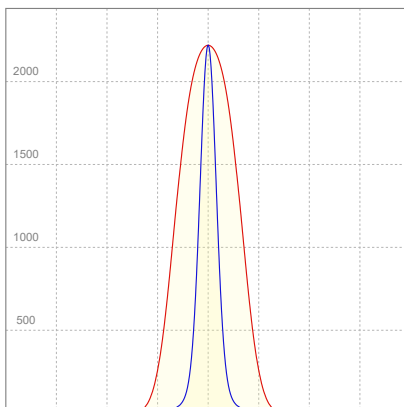
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39°	63°	78,9°	99,8%	94,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2218lx	555lx	246lx	139lx	89lx	39lx	22lx	10lx	6lx	4lx	2lx	1lx	1lx
Footcand.	206fcd	52fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,3m	7,1m	10,6m	14,2m	17,7m	21,2m	28,3m	35,4m
Beam wid.	2,3ft	4,7ft	6,9ft	9,3ft	11,6ft	17,4ft	23,2ft	34,8ft	46,4ft	58ft	69,6ft	92,8ft	116,1ft

LINEAR DISTRIBUTION DIAGRAM

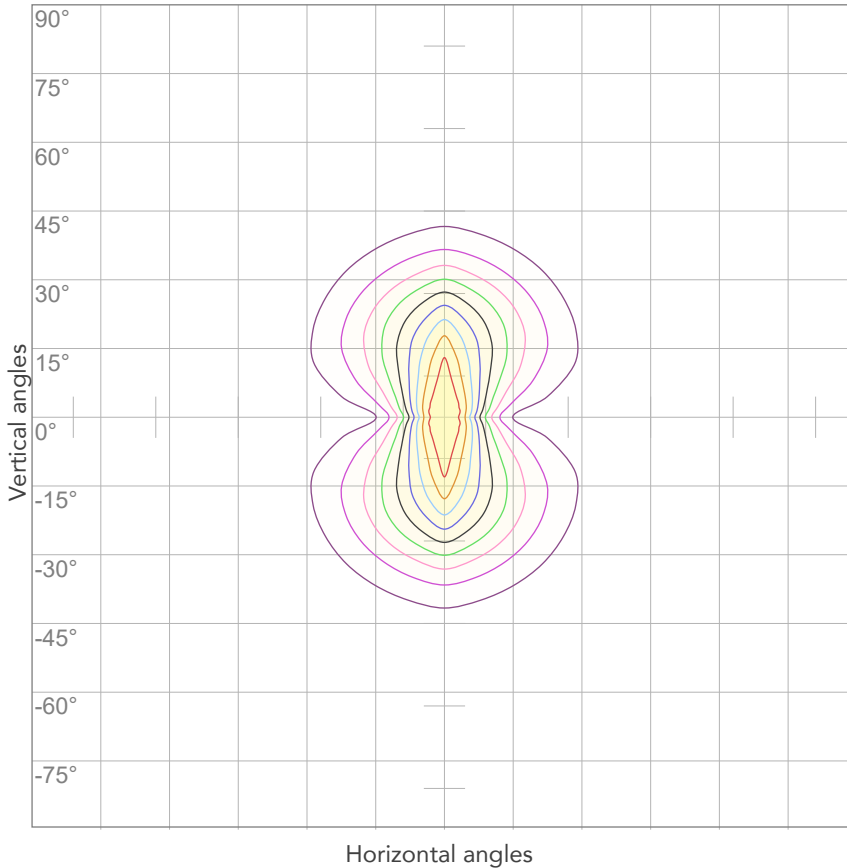


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,250A	21,9W	56lm/W

Power FC
0,39

ISO CANDELA DIAGRAM



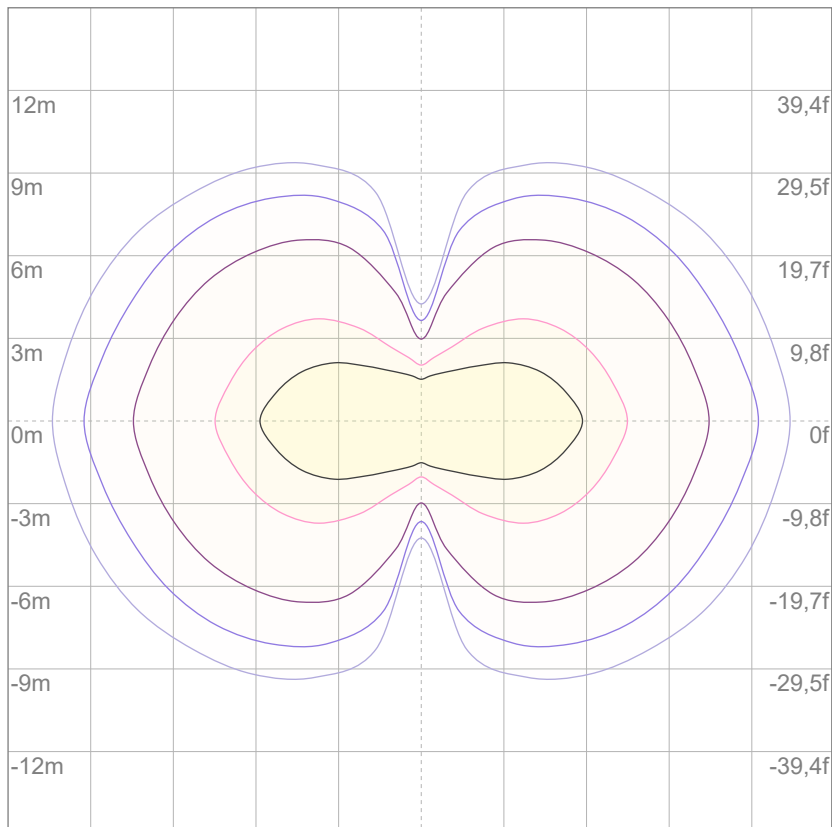
10%	222 cd
20%	444 cd
30%	666 cd
40%	887 cd
50%	1109 cd
60%	1331 cd
70%	1553 cd
80%	1775 cd

Conditions:

Number of c-planes: 4

Candela at center: 2218 cd

ISO LUX DIAGRAM



3%	0,666 lx
5%	1,11 lx
10%	2,22 lx
30%	6,66 lx
50%	11,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 22,2 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

181 lm

Peak candela output:

3549 cd

PRODUCT NAME:
SMARTBATPLUSG2

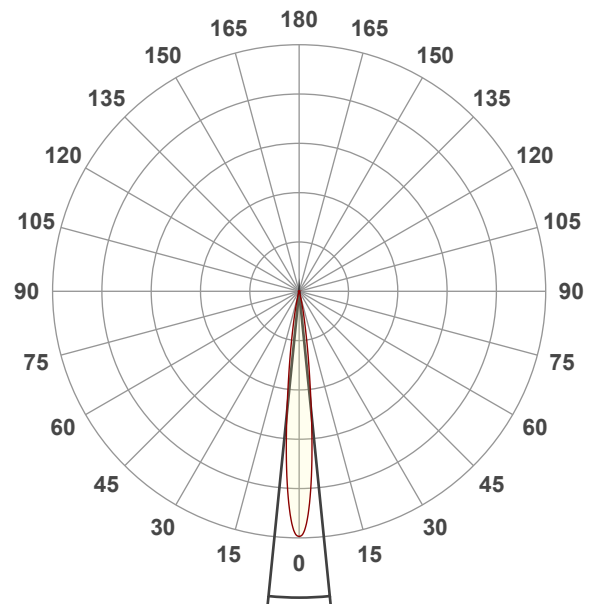
MEASUREMENT CONDITIONS:

Beam angle:
Native Optic (Without Filter)

Target:
Blue Cal.Off.

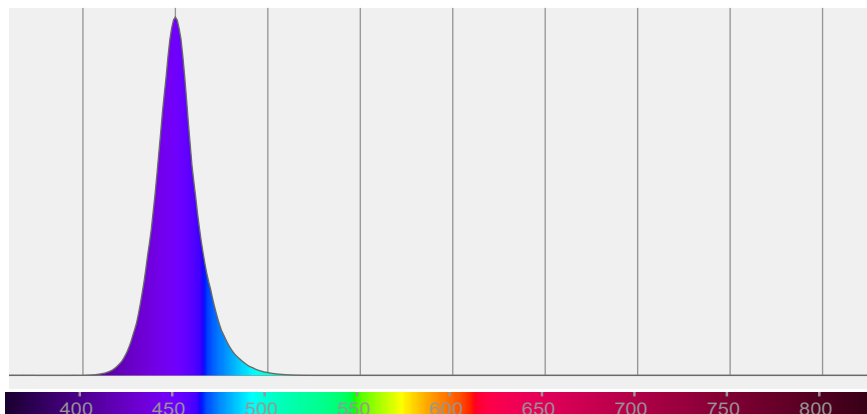
Operator:
Paolo Carvone

Date and time:
10/06/2022 12:48:53



Beam angle 50%: 11,5°
Field angle 10%: 21,7°
Cut off angle 2.5%: 29,1°

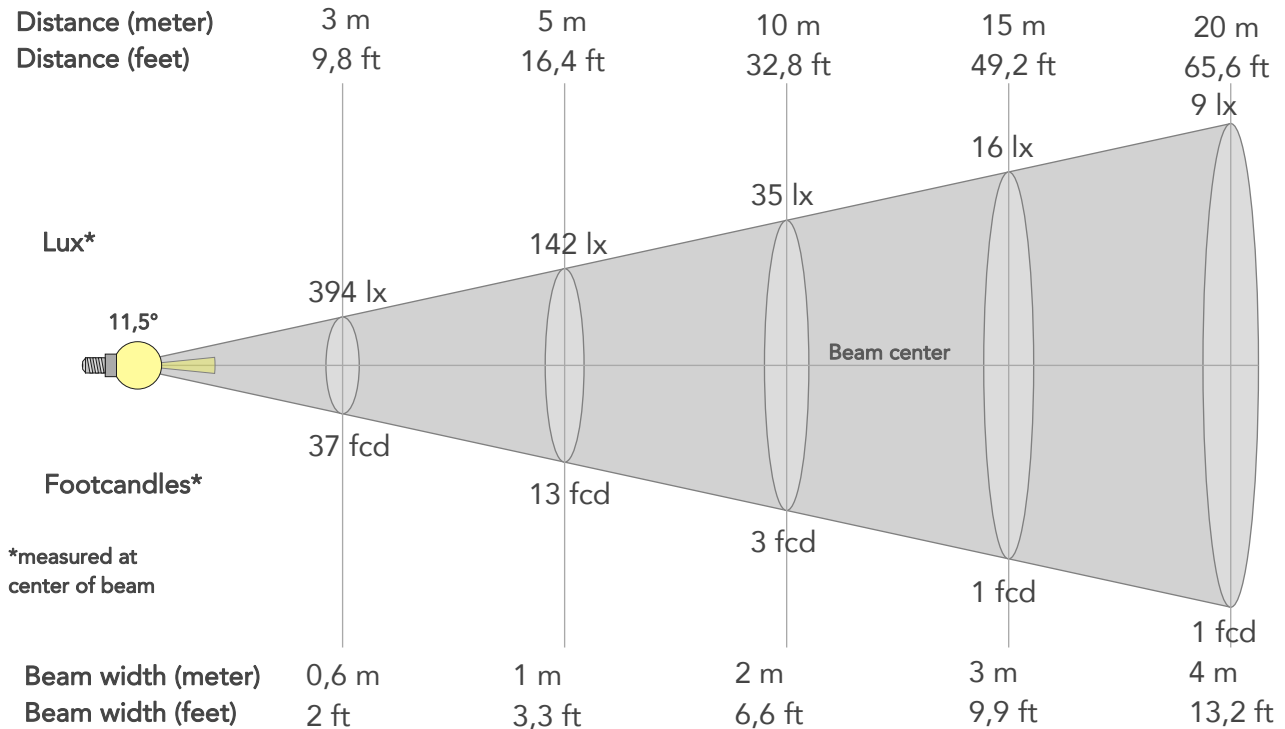
Spectra



BEAM DETAILS



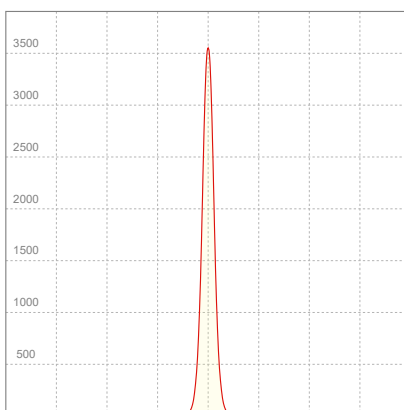
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,5°	21,7°	29,1°	100,0%	99,9%



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	3549lx	887lx	394lx	222lx	142lx	63lx	35lx	16lx	9lx	6lx	4lx	2lx	1lx
Footcand.	330fcd	82fcd	37fcd	21fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,5m	2m	3m	4m	5m	6m	8m	10,1m
Beam wid.	0,7ft	1,3ft	2ft	2,6ft	3,3ft	4,9ft	6,6ft	9,9ft	13,2ft	16,5ft	19,8ft	26,4ft	33ft

LINEAR DISTRIBUTION DIAGRAM

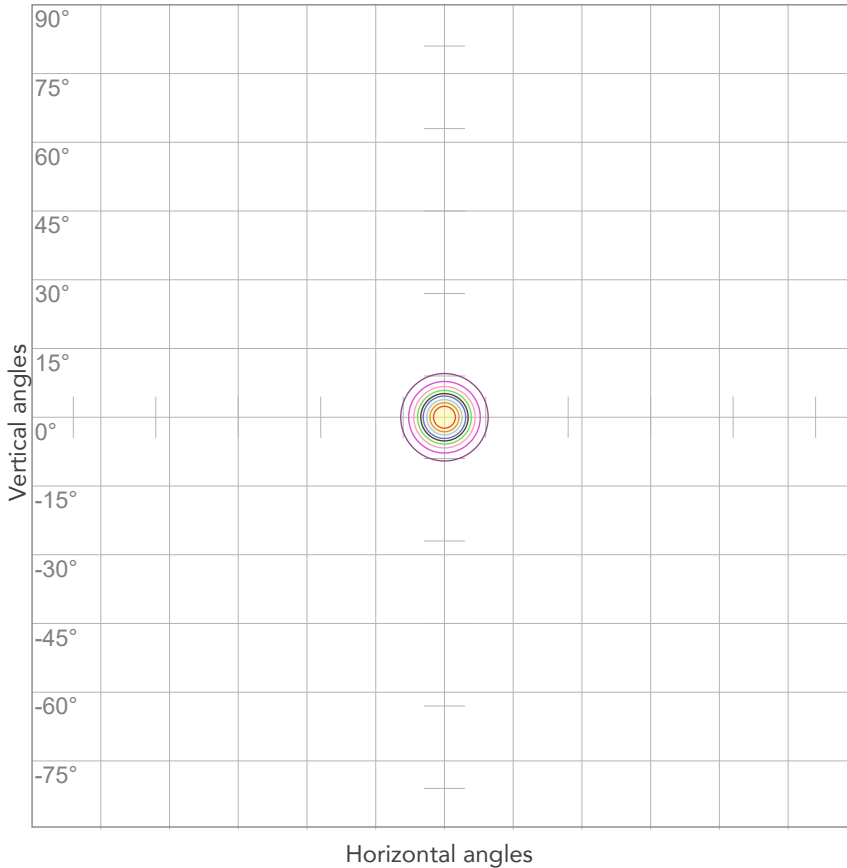


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,226A	20,4W	9lm/W

Power FC
0,4

ISO CANDELA DIAGRAM



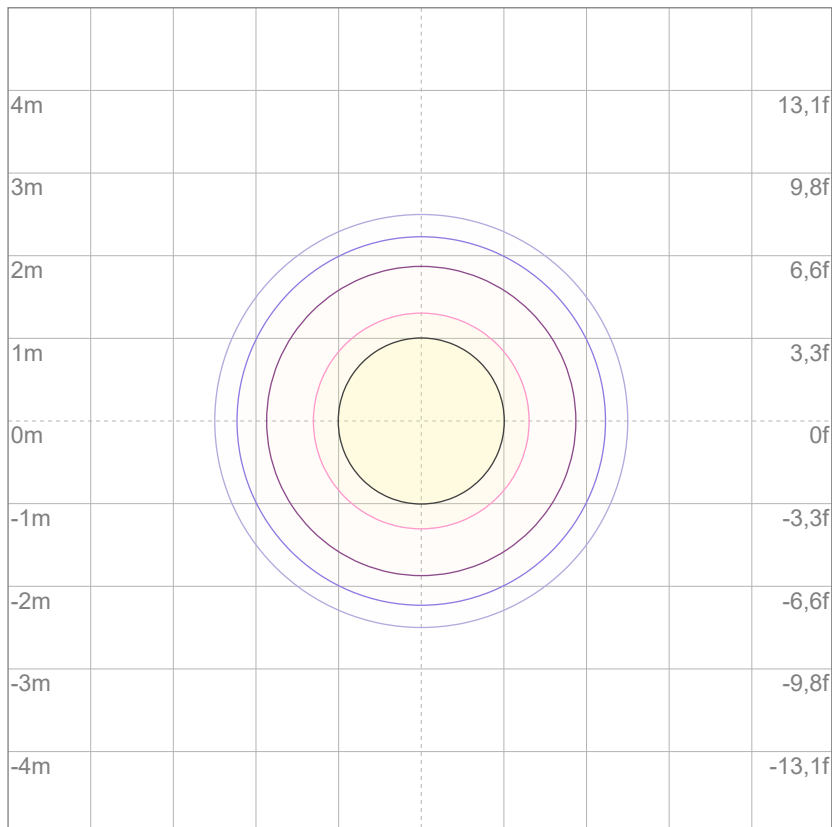
10%	355 cd
20%	710 cd
30%	1065 cd
40%	1420 cd
50%	1774 cd
60%	2129 cd
70%	2484 cd
80%	2839 cd

Conditions:

Number of c-planes: 2

Candela at center: 3549 cd

ISO LUX DIAGRAM



3%	1,06 lx
5%	1,77 lx
10%	3,55 lx
30%	10,6 lx
50%	17,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 35,5 lx

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



Total lumen output:

173 lm

Peak candela output:

724 cd

PRODUCT NAME:

SMARTBATPLUSG2

MEASUREMENT CONDITIONS:

Beam angle:

20° Filter

Target:

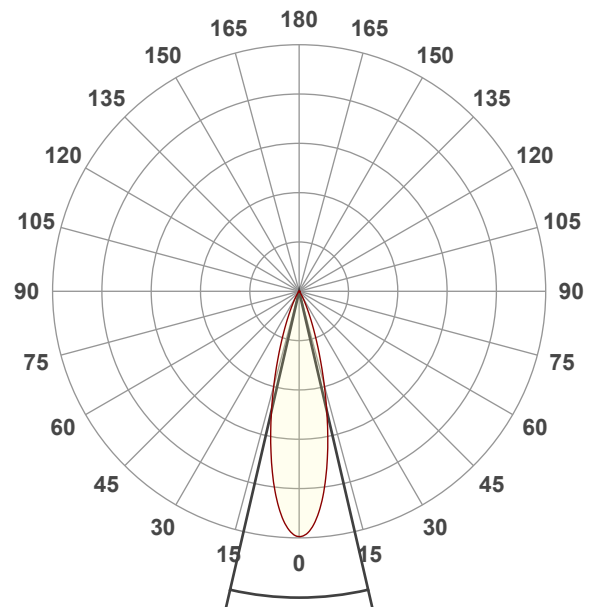
Blue Cal.Off.

Operator:

Paolo Carvone

Date and time:

13/06/2022 15:06:21

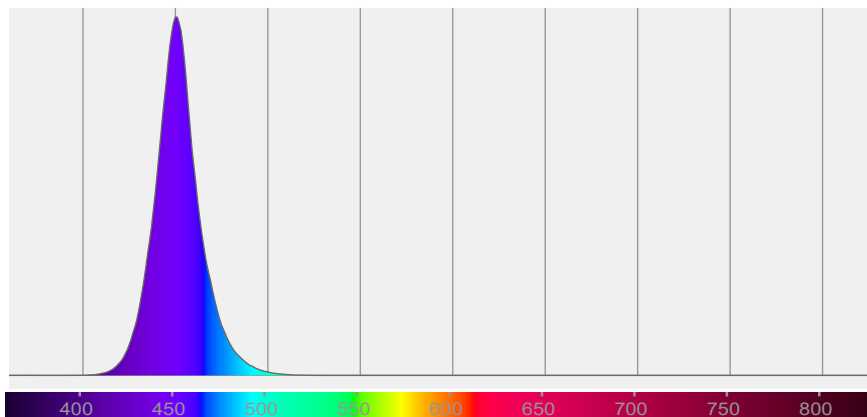


Beam angle 50%: 26°

Field angle 10%: 47,7°

Cut off angle 2.5%: 62,2°

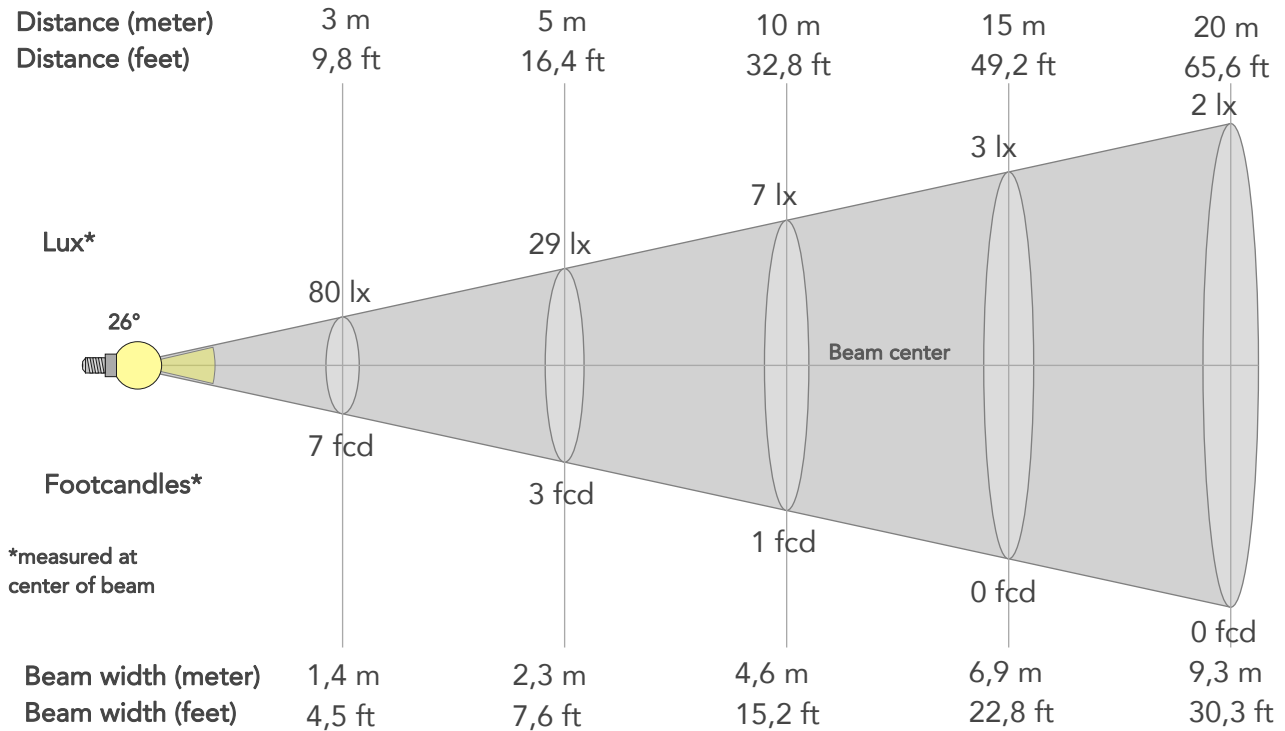
Spectra



BEAM DETAILS



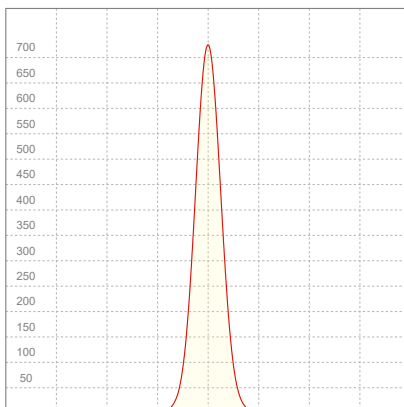
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26°	47,7°	62,2°	100,0%	99,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	723lx	181lx	80lx	45lx	29lx	13lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	67fcd	17fcd	7fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,9m	2,3m	3,5m	4,6m	6,9m	9,3m	11,6m	13,9m	18,5m	23,1m
Beam wid.	1,5ft	3,1ft	4,5ft	6,1ft	7,6ft	11,4ft	15,2ft	22,8ft	30,3ft	37,9ft	45,5ft	60,7ft	75,9ft

LINEAR DISTRIBUTION DIAGRAM

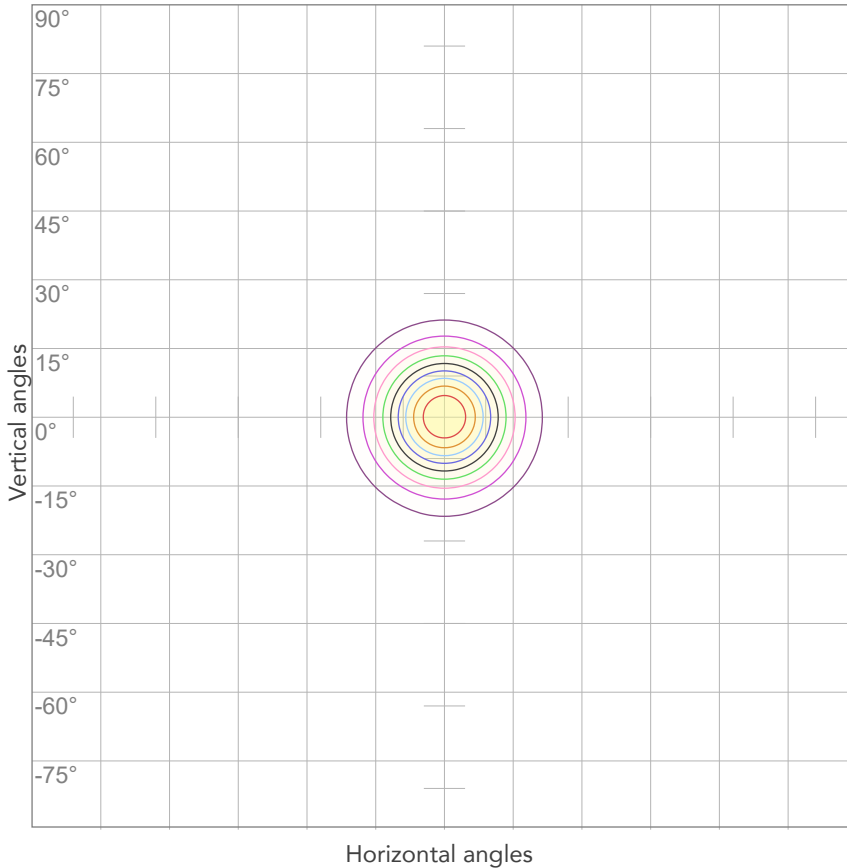


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,208A	20,0W	9lm/W

Power FC
0,43

ISO CANDELA DIAGRAM



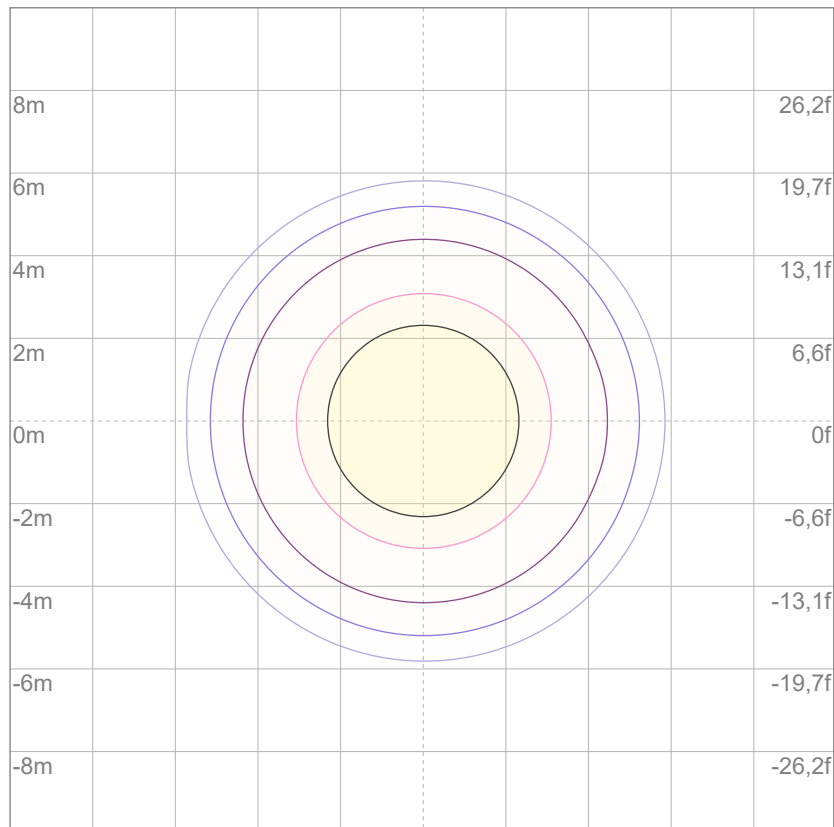
10%	72 cd
20%	145 cd
30%	217 cd
40%	289 cd
50%	362 cd
60%	434 cd
70%	506 cd
80%	579 cd

Conditions:

Number of c-planes: 2

Candela at center: 723 cd

ISO LUX DIAGRAM



3%	0,217 lx
5%	0,362 lx
10%	0,723 lx
30%	2,17 lx
50%	3,62 lx

Conditions:

Number of c-planes: 2

Lux at center: 7,23 lx

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



Total lumen output:

177 lm

Peak candela output:

265 cd

PRODUCT NAME:

SMARTBATPLUSG2

MEASUREMENT CONDITIONS:

Beam angle:

40° Filter

Target:

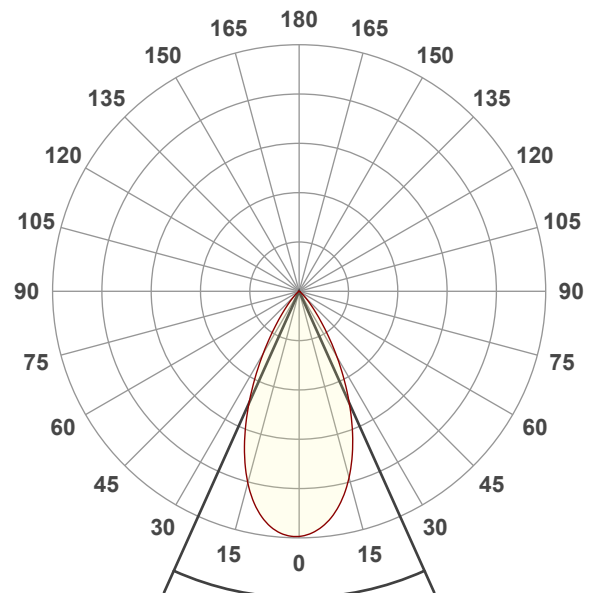
Blue Cal.Off.

Operator:

Paolo Carvone

Date and time:

13/06/2022 14:44:31

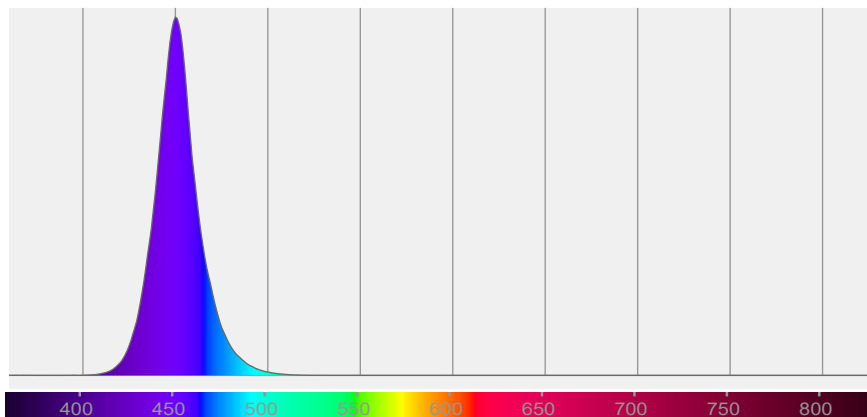


Beam angle 50%: 48,3°

Field angle 10%: 77°

Cut off angle 2.5%: 94°

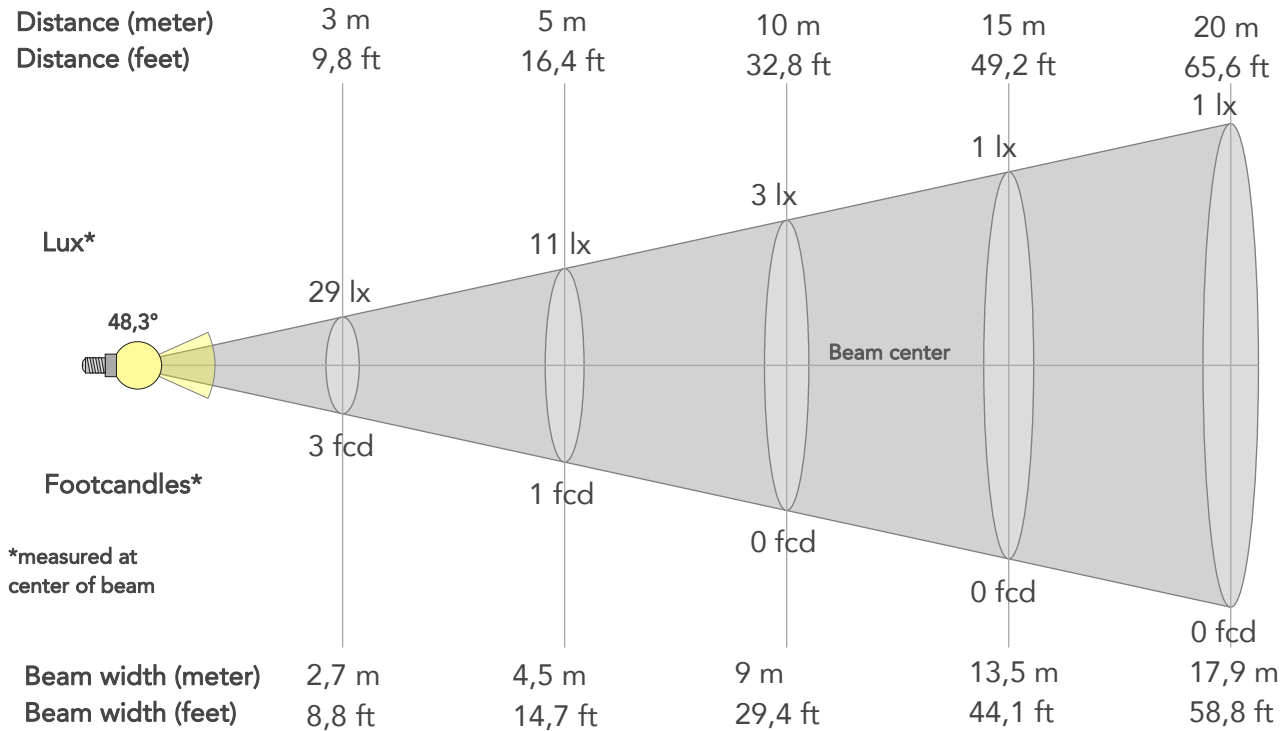
Spectra



BEAM DETAILS



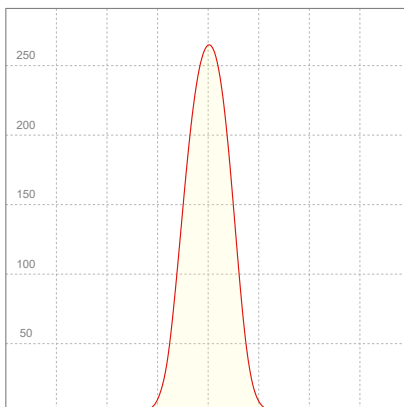
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,3°	77°	94°	99,7%	97,2%



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	264lx	66lx	29lx	17lx	11lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	25fcd	6fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,7m	9m	13,5m	17,9m	22,4m	26,9m	35,9m	44,8m
Beam wid.	3ft	5,9ft	8,8ft	11,8ft	14,7ft	22,1ft	29,4ft	44,1ft	58,8ft	73,6ft	88,3ft	117,7ft	147,1ft

LINEAR DISTRIBUTION DIAGRAM

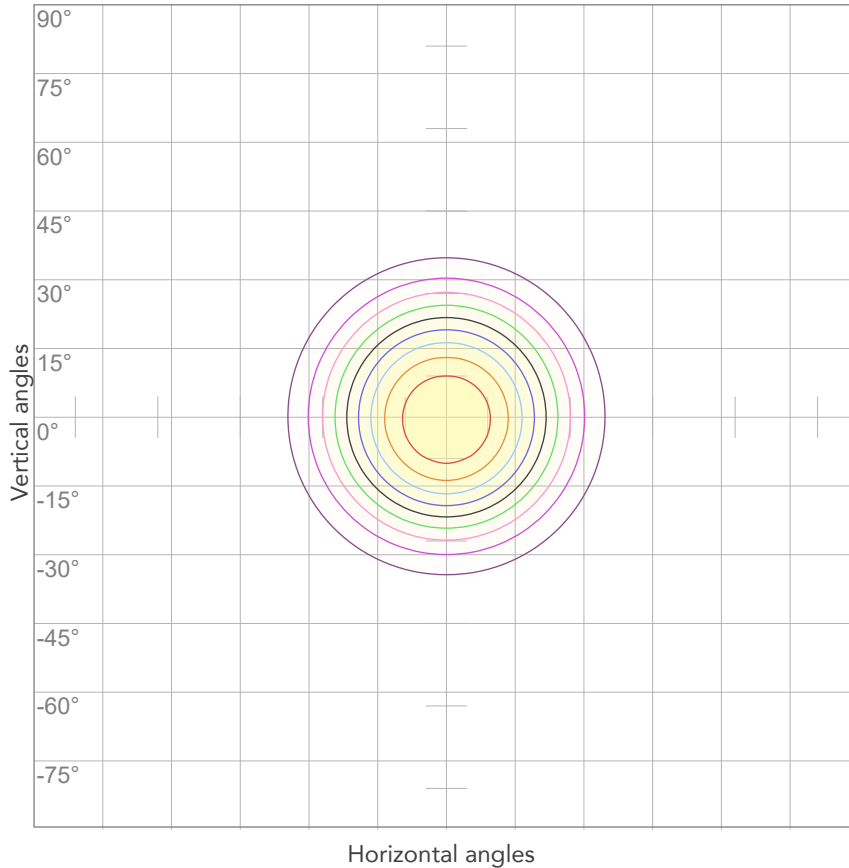


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,204A	20,2W	9lm/W

Power FC
0,44

ISO CANDELA DIAGRAM

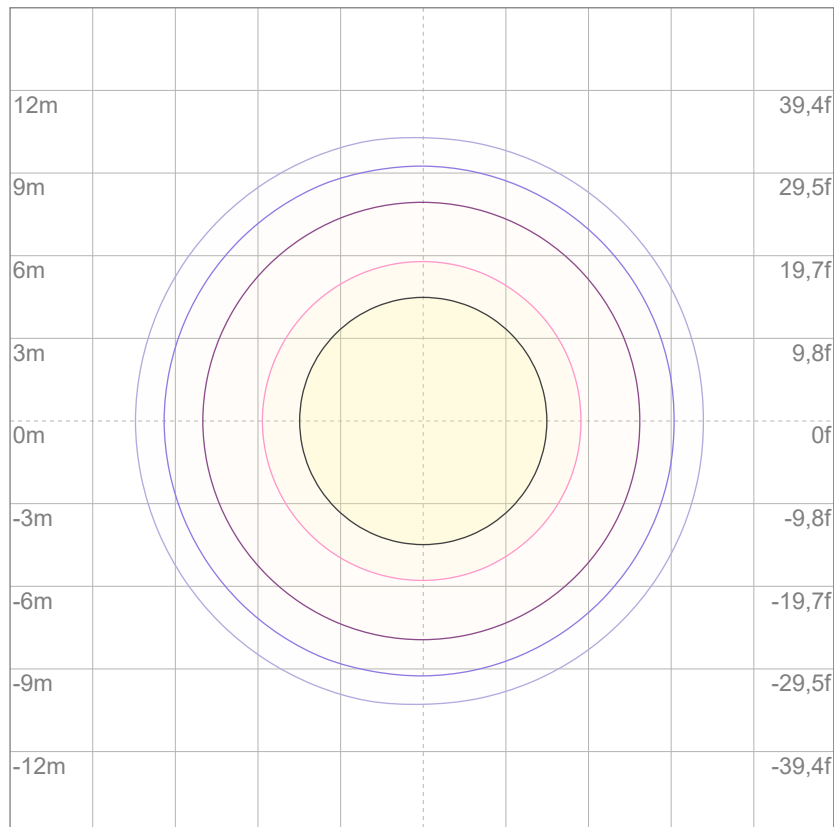


10%	26 cd
20%	53 cd
30%	79 cd
40%	106 cd
50%	132 cd
60%	159 cd
70%	185 cd
80%	212 cd

Conditions:

Number of c-planes: 2
Candela at center: 264 cd

ISO LUX DIAGRAM



3%	79,3m lx
5%	0,132 lx
10%	0,264 lx
30%	0,793 lx
50%	1,32 lx

Conditions:

Number of c-planes: 2
Lux at center: 2,64 lx

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



Total lumen output:

172 lm

Peak candela output:

199 cd

PRODUCT NAME:
SMARTBATPLUSG2

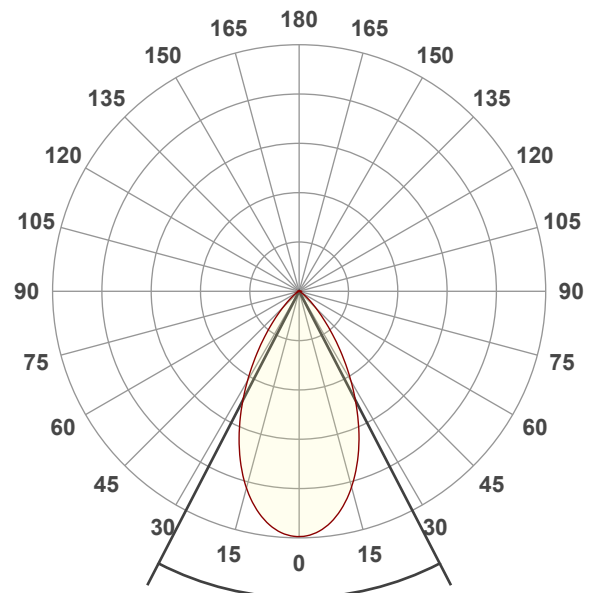
MEASUREMENT CONDITIONS:

Beam angle:
60° Filter

Target:
Blue Cal.Off.

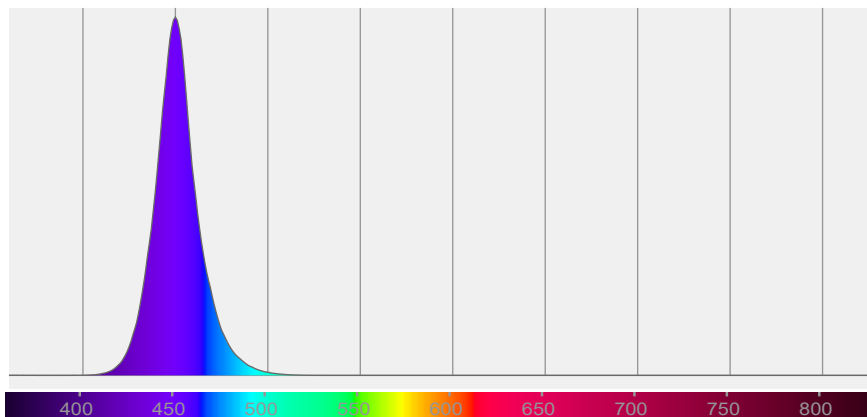
Operator:
Paolo Carvone

Date and time:
13/06/2022 14:21:19



Beam angle 50%: 54,6°
Field angle 10%: 89,5°
Cut off angle 2.5%: 108,7°

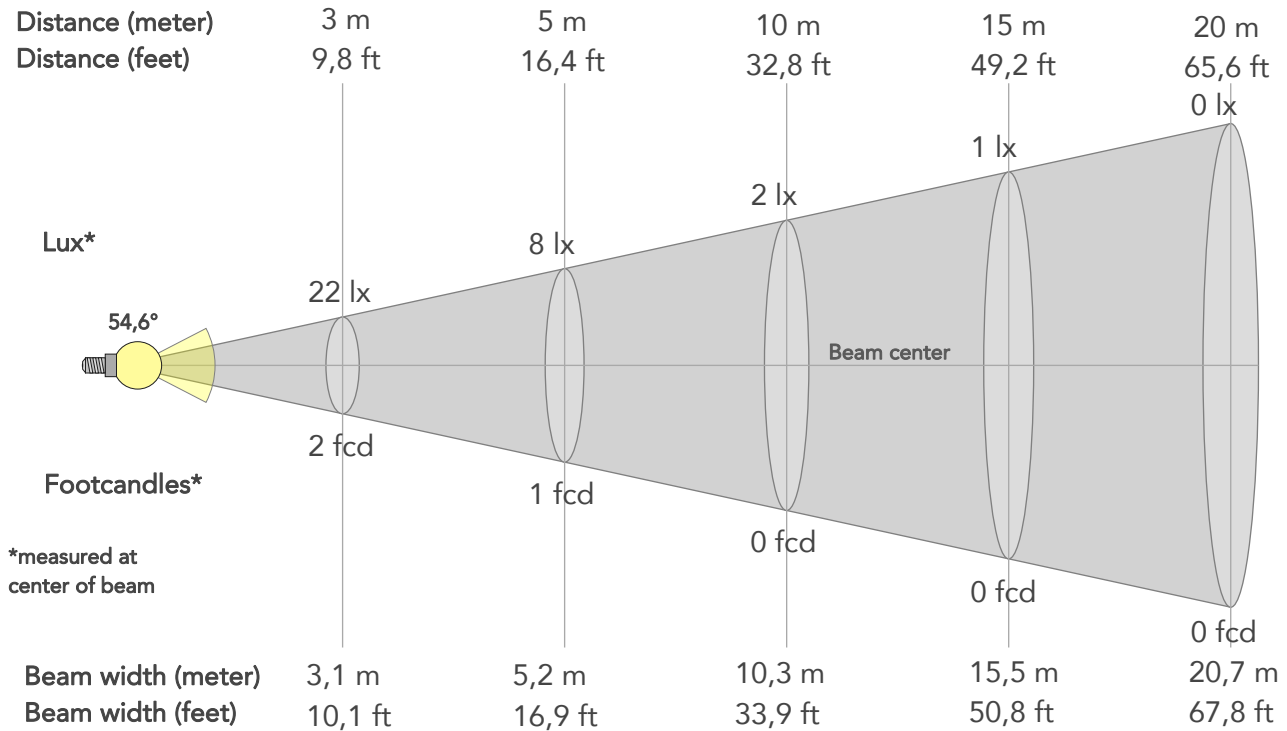
Spectra



BEAM DETAILS



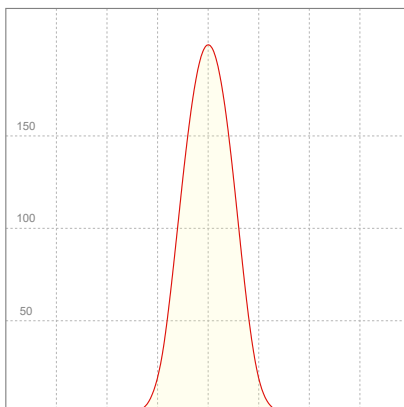
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
54,6°	89,5°	108,7°	99,4%	93,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	199lx	50lx	22lx	12lx	8lx	4lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	18fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2,1m	3,1m	4,1m	5,2m	7,7m	10,3m	15,5m	20,7m	25,8m	31m	41,3m	51,7m
Beam wid.	3,4ft	6,8ft	10,1ft	13,5ft	16,9ft	25,4ft	33,9ft	50,8ft	67,8ft	84,7ft	101,7ft	135,6ft	169,4ft

LINEAR DISTRIBUTION DIAGRAM

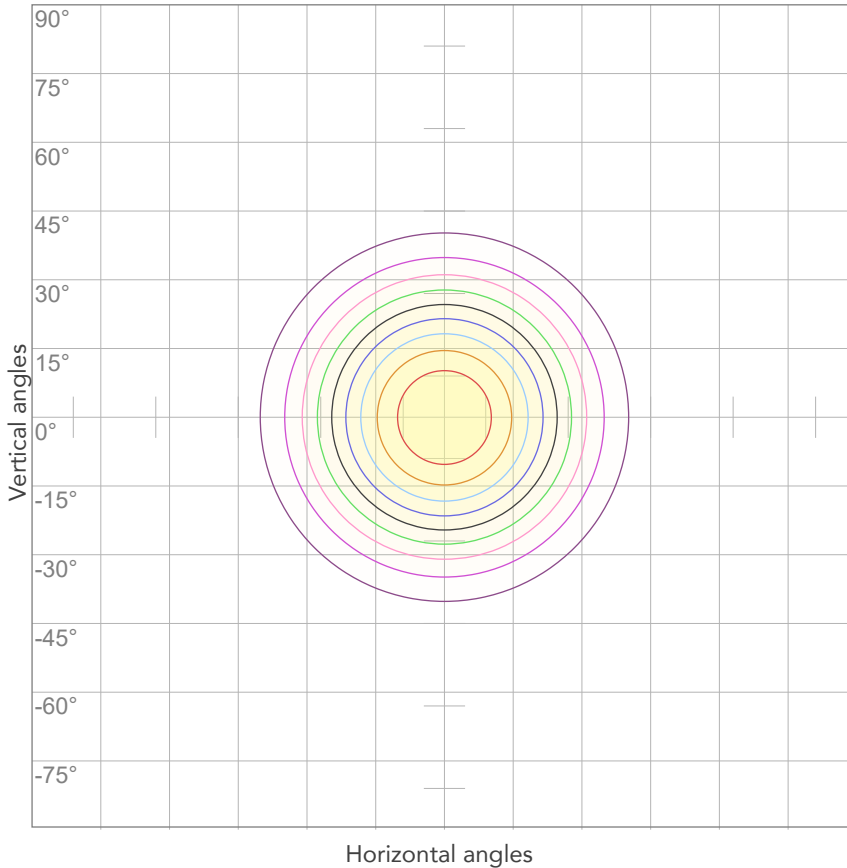


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,116A	21,8W	8lm/W

Power FC
0,82

ISO CANDELA DIAGRAM

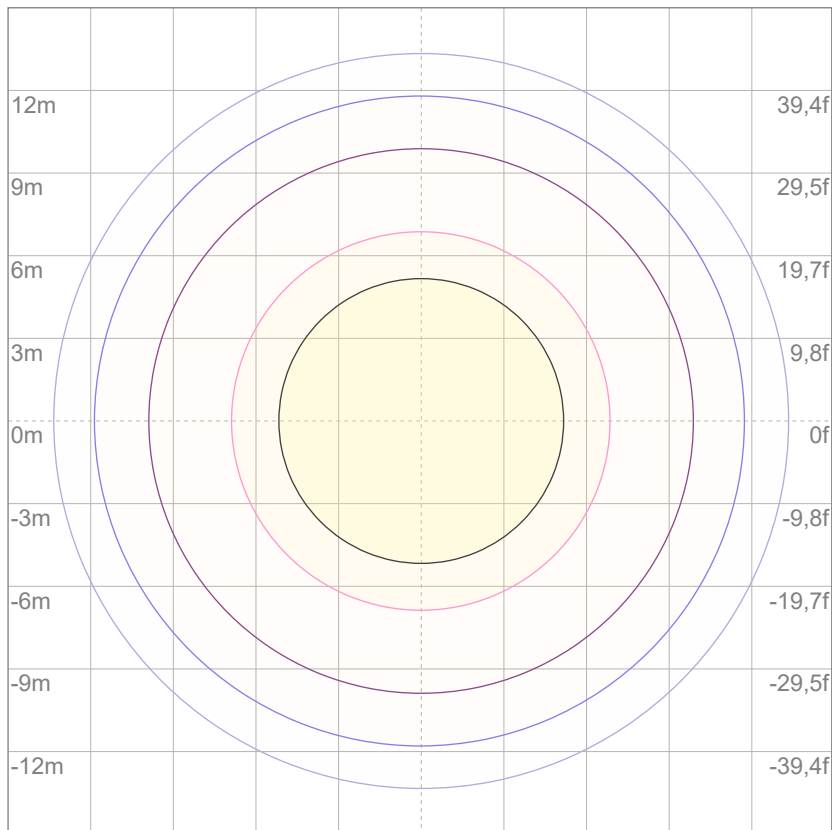


10%	20 cd
20%	40 cd
30%	60 cd
40%	80 cd
50%	99 cd
60%	119 cd
70%	139 cd
80%	159 cd

Conditions:

Number of c-planes: 2
Candela at center: 199 cd

ISO LUX DIAGRAM



3%	59,7m lx
5%	99,5m lx
10%	0,199 lx
30%	0,597 lx
50%	0,995 lx

Conditions:

Number of c-planes: 2
Lux at center: 1,99 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:

267 lm

Peak candela output:

473 cd

PRODUCT NAME:

SMARTBATPLUSG2

MEASUREMENT CONDITIONS:

Beam angle:

1060 Filter

Target:

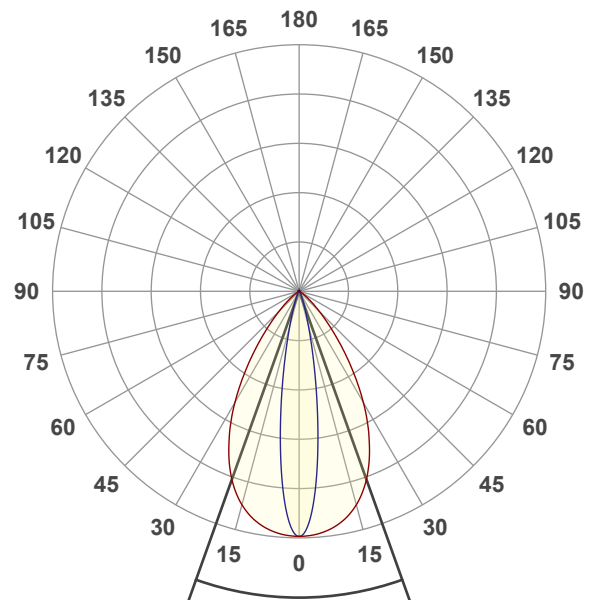
Blue On Cal.Off.

Operator:

Paolo Carvone

Date and time:

10/06/2022 13:23:51

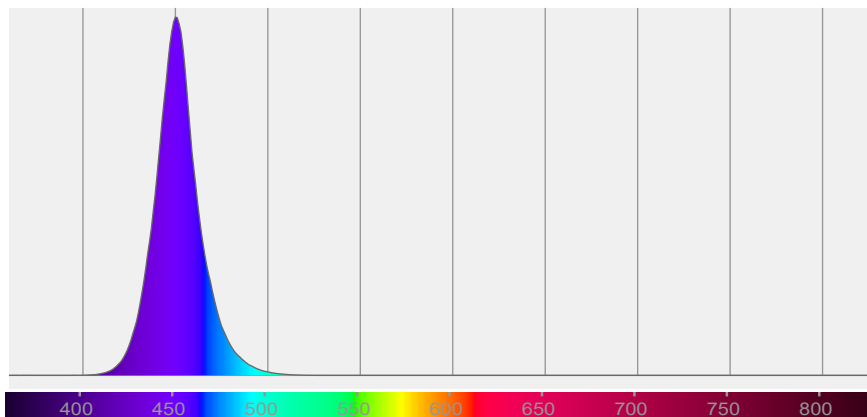


Beam angle 50%: 39,3°

Field angle 10%: 63,1°

Cut off angle 2.5%: 79,7°

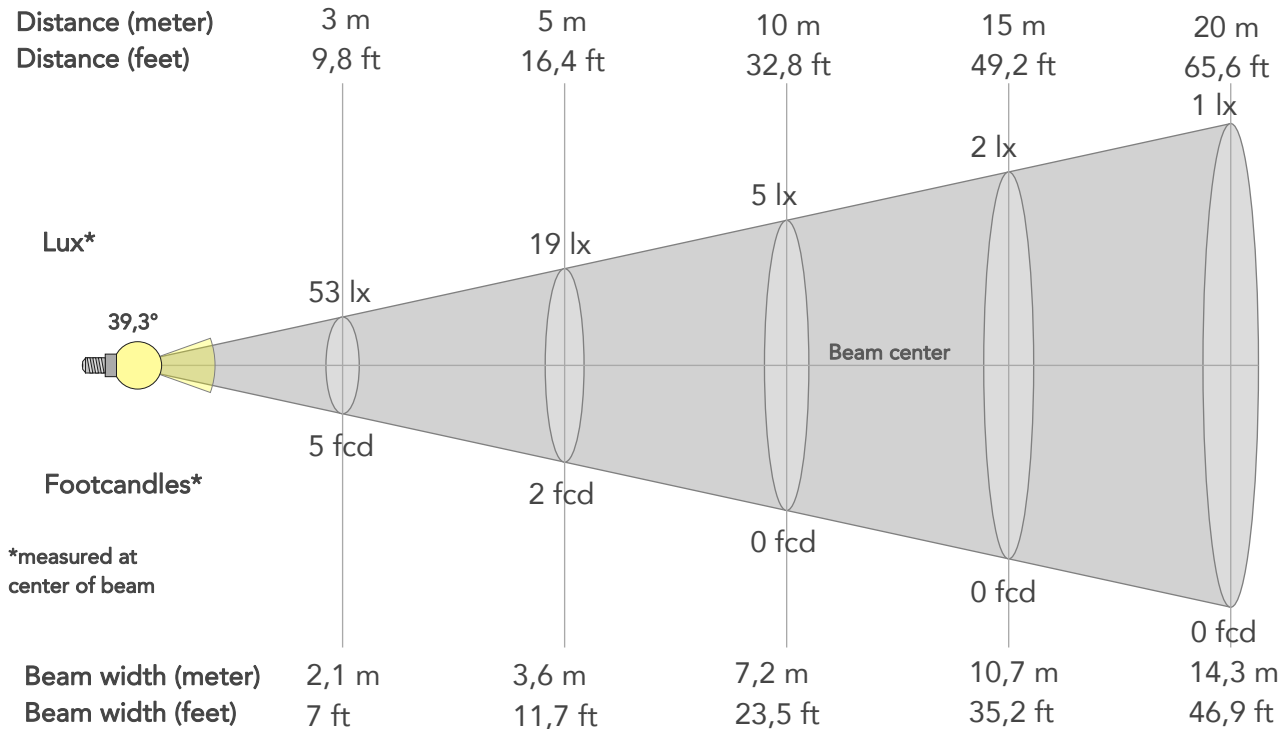
Spectra



BEAM DETAILS



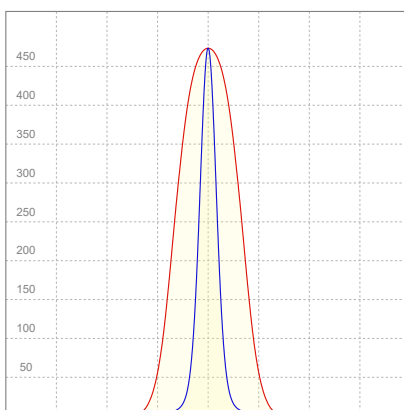
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,3°	63,1°	79,7°	99,6%	94,3%



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	473lx	118lx	53lx	30lx	19lx	8lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	44fcd	11fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,9m	3,6m	5,4m	7,2m	10,7m	14,3m	17,9m	21,5m	28,6m	35,8m
Beam wid.	2,4ft	4,7ft	7ft	9,4ft	11,7ft	17,6ft	23,5ft	35,2ft	46,9ft	58,6ft	70,4ft	93,8ft	117,3ft

LINEAR DISTRIBUTION DIAGRAM

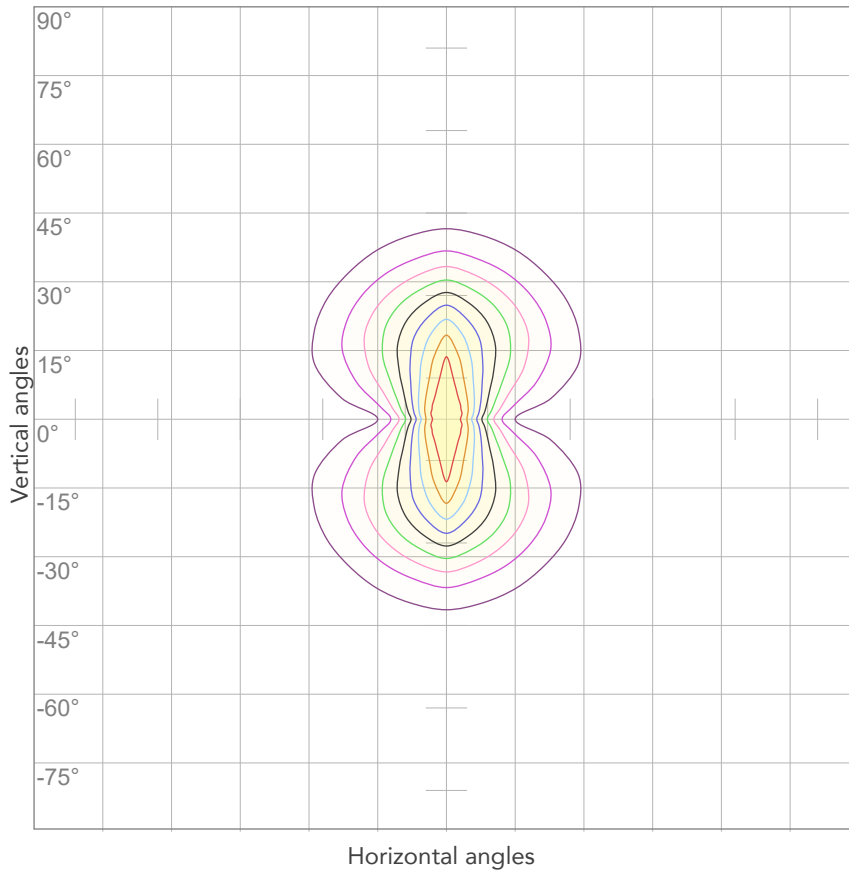


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,232A	20,1W	13lm/W

Power FC
0,38

ISO CANDELA DIAGRAM



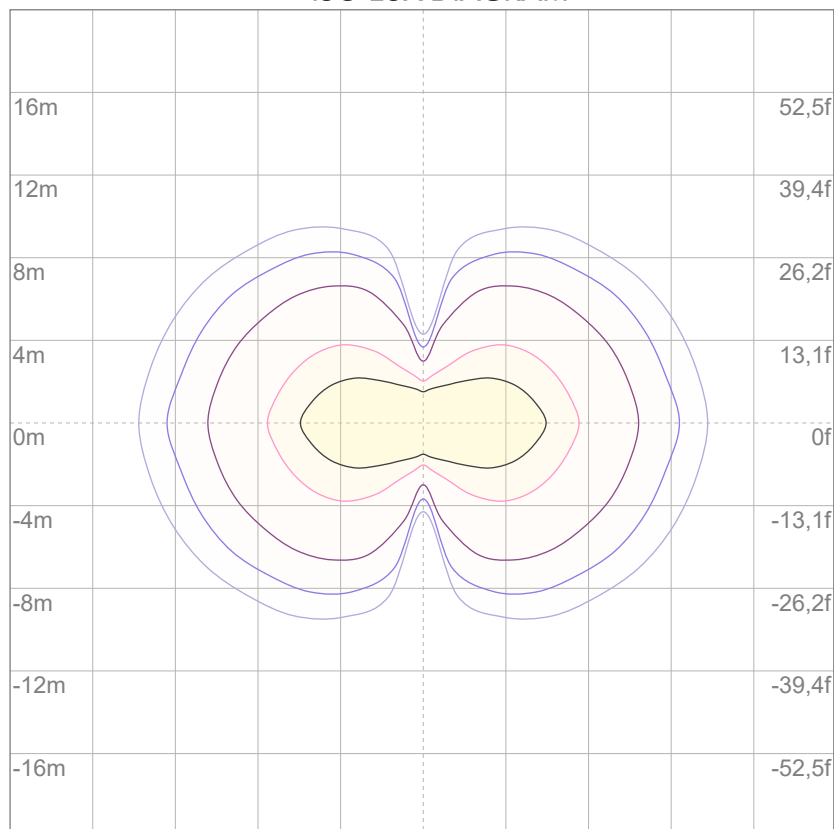
10%	47 cd
20%	95 cd
30%	142 cd
40%	189 cd
50%	237 cd
60%	284 cd
70%	331 cd
80%	379 cd

Conditions:

Number of c-planes: 4

Candela at center: 473 cd

ISO LUX DIAGRAM



3%	0,142 lx
5%	0,237 lx
10%	0,473 lx
30%	1,42 lx
50%	2,37 lx

Conditions:

Number of c-planes: 4

Lux at center: 4,73 lx

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



Total lumen output:

925 lm

Peak candela output:

18019 cd

PRODUCT NAME:
SMARTBATPLUSG2

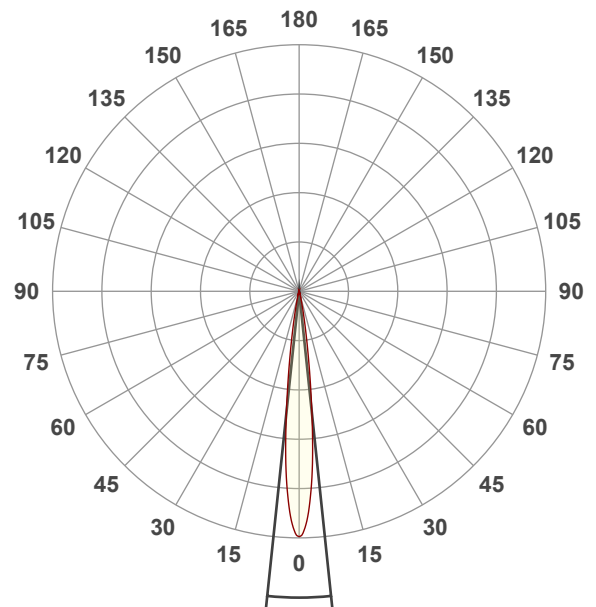
MEASUREMENT CONDITIONS:

Beam angle:
Native Optic (Without Filter)

Target:
White Cal.Off.

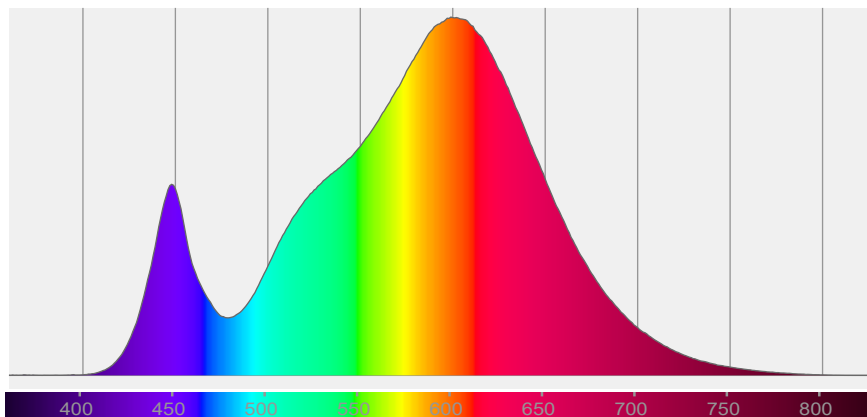
Operator:
Paolo Carvone

Date and time:
10/06/2022 12:50:29



Beam angle 50%: 12°
Field angle 10%: 21,3°
Cut off angle 2.5%: 28,6°

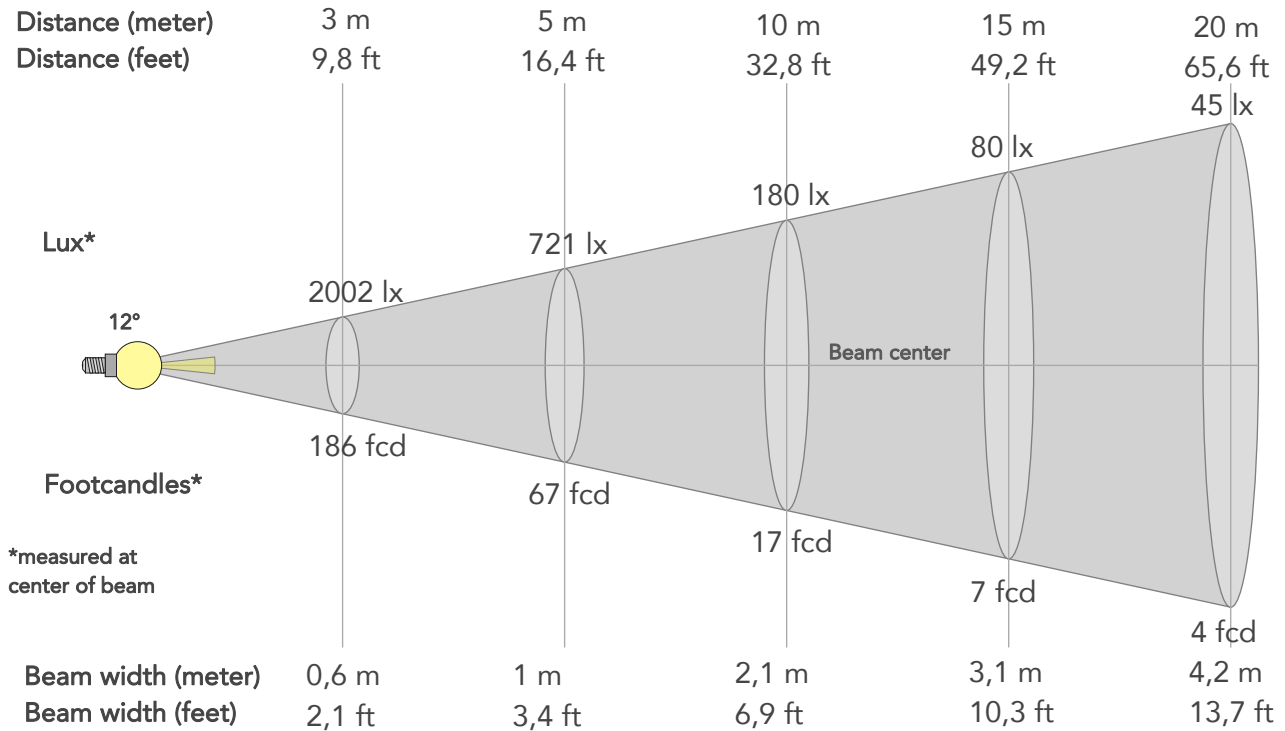
Spectra



BEAM DETAILS



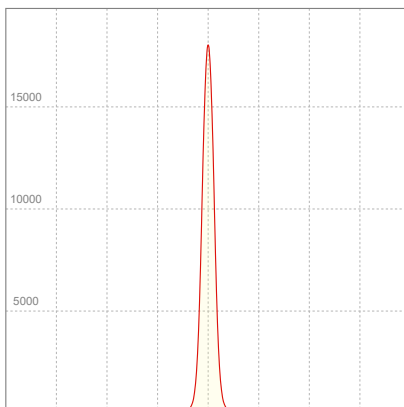
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
12°	21,3°	28,6°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	18019lx	4505lx	2002lx	1126lx	721lx	320lx	180lx	80lx	45lx	29lx	20lx	11lx	7lx
Footcand.	1674fcd	419fcd	186fcd	105fcd	67fcd	30fcd	17fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,6m	2,1m	3,1m	4,2m	5,2m	6,3m	8,4m	10,5m
Beam wid.	0,7ft	1,4ft	2,1ft	2,7ft	3,4ft	5,2ft	6,9ft	10,3ft	13,7ft	17,2ft	20,6ft	27,5ft	34,3ft

LINEAR DISTRIBUTION DIAGRAM

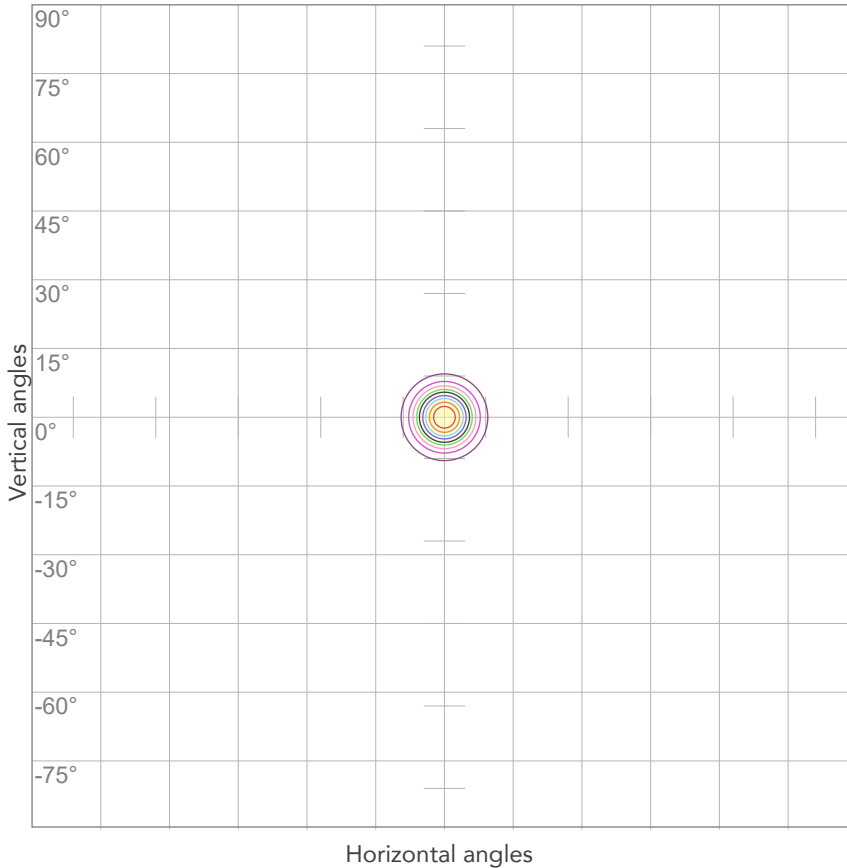


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,144A	28,8W	32lm/W

Power FC
0,88

ISO CANDELA DIAGRAM



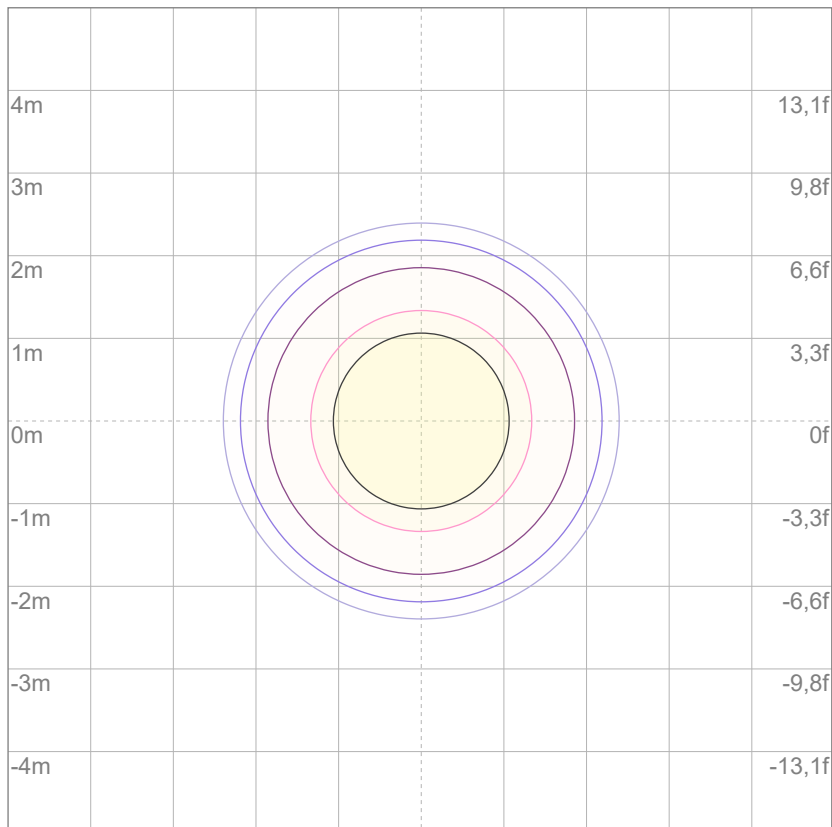
10%	1802 cd
20%	3604 cd
30%	5406 cd
40%	7208 cd
50%	9010 cd
60%	10812 cd
70%	12614 cd
80%	14416 cd

Conditions:

Number of c-planes: 2

Candela at center: 18019 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,41 lx
5%	9,01 lx
10%	18,0 lx
30%	54,1 lx
50%	90,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 180 lx

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



Total lumen output:

884 lm

Peak candela output:

3813 cd

PRODUCT NAME:
SMARTBATPLUSG2

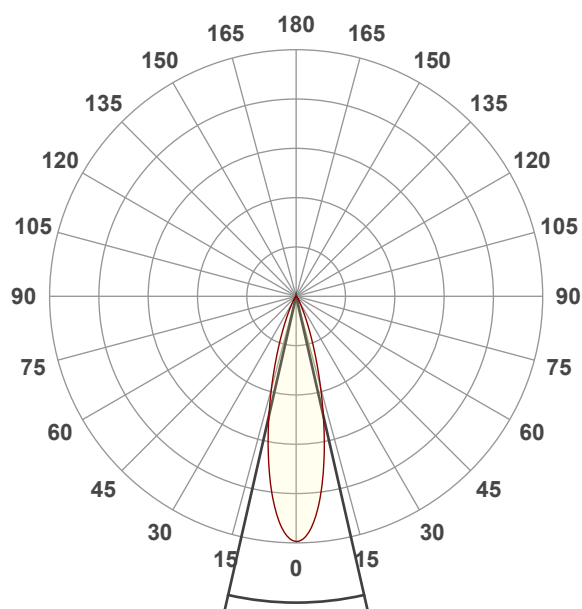
MEASUREMENT CONDITIONS:

Beam angle:
20° Filter

Target:
White Cal.Off.

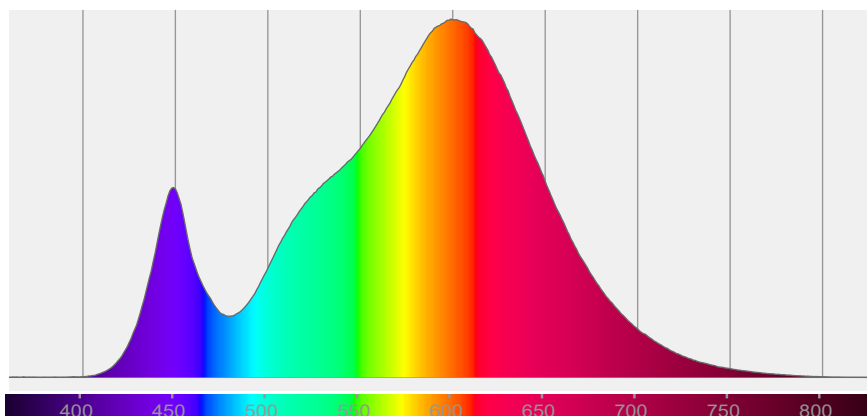
Operator:
Paolo Carvone

Date and time:
13/06/2022 15:08:01



Beam angle 50%: 25,6°
Field angle 10%: 47,2°
Cut off angle 2.5%: 61,7°

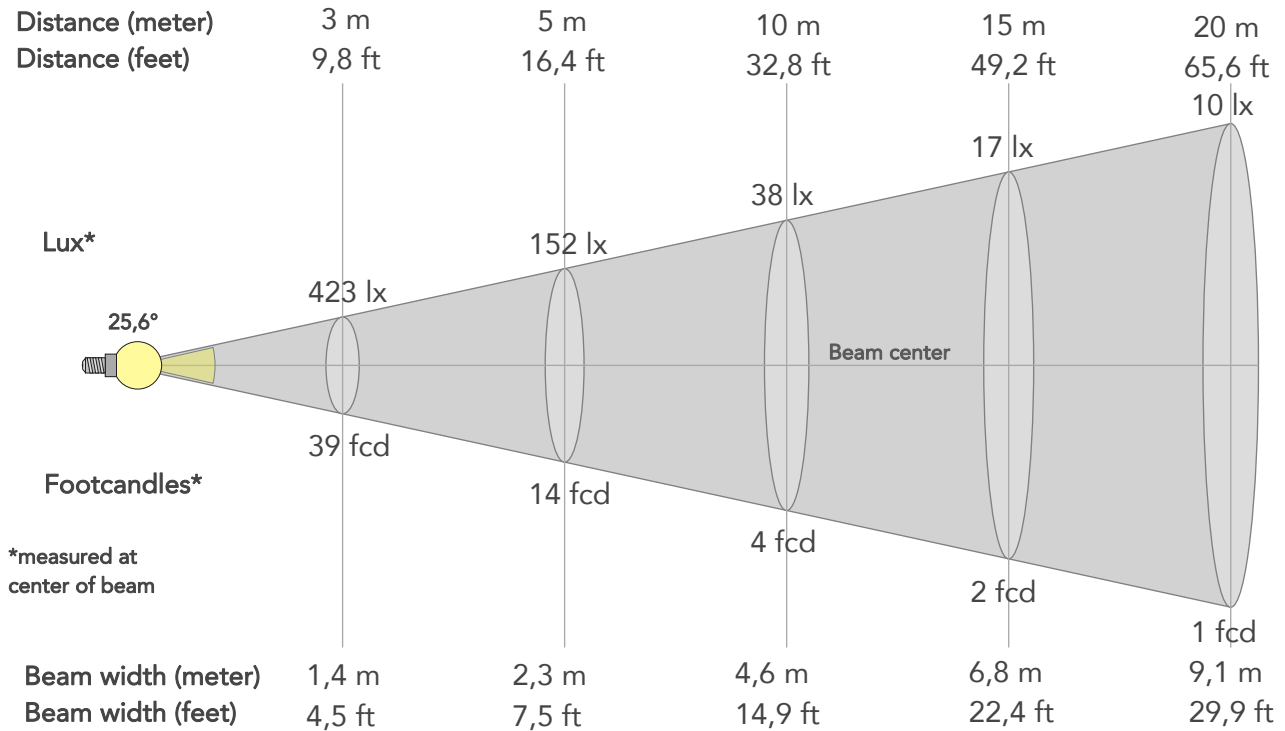
Spectra



BEAM DETAILS



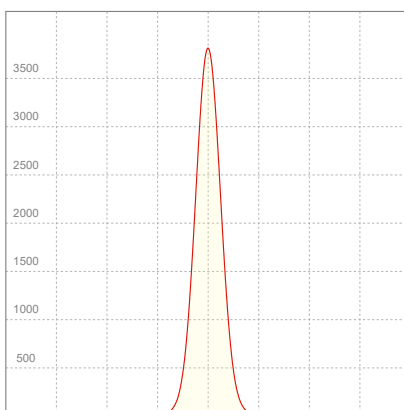
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,6°	47,2°	61,7°	100,0%	99,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3807lx	952lx	423lx	238lx	152lx	68lx	38lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	354fcd	88fcd	39fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,6m	6,8m	9,1m	11,4m	13,7m	18,2m	22,8m
Beam wid.	1,5ft	3ft	4,5ft	6ft	7,5ft	11,2ft	14,9ft	22,4ft	29,9ft	37,3ft	44,8ft	59,7ft	74,7ft

LINEAR DISTRIBUTION DIAGRAM

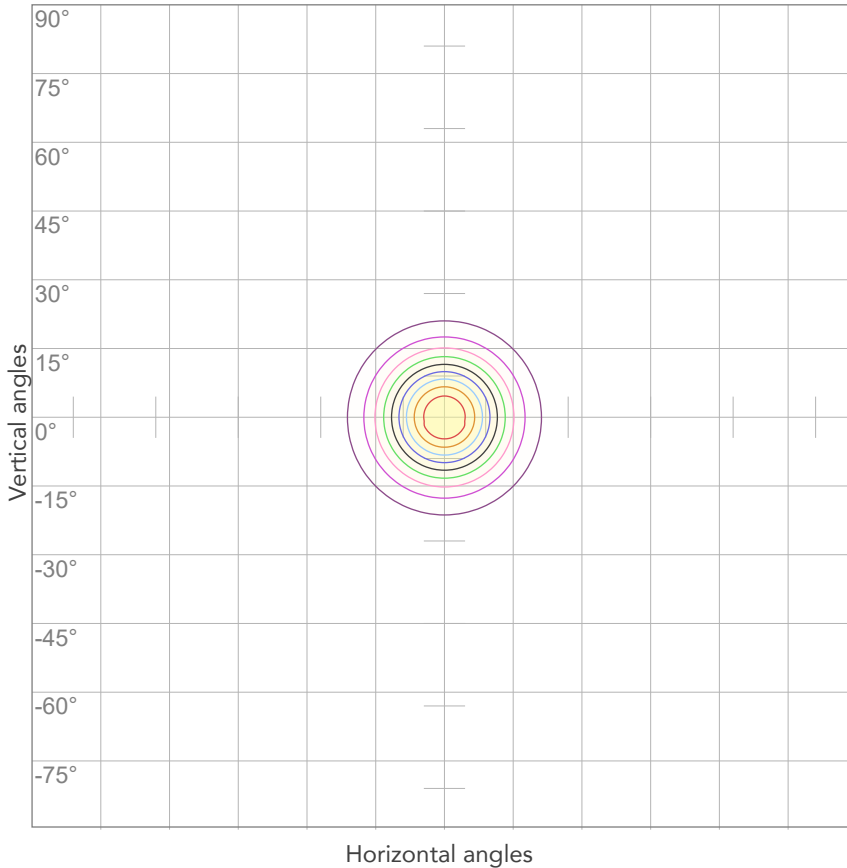


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,277A	26,6W	33lm/W

Power FC
0,43

ISO CANDELA DIAGRAM



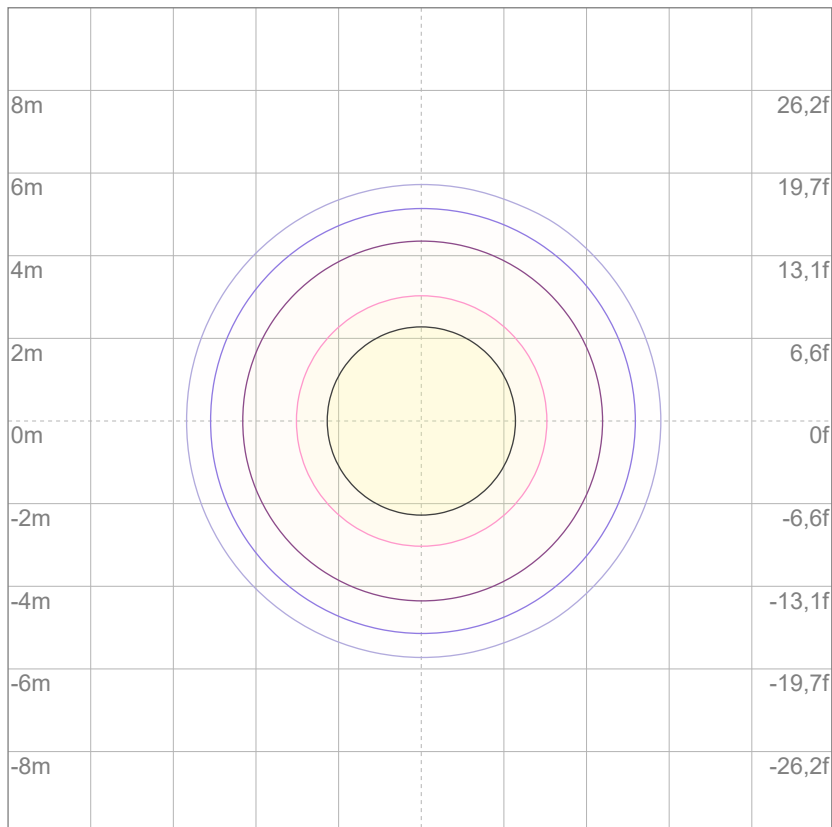
10%	381 cd
20%	761 cd
30%	1142 cd
40%	1523 cd
50%	1904 cd
60%	2284 cd
70%	2665 cd
80%	3046 cd

Conditions:

Number of c-planes: 2

Candela at center: 3807 cd

ISO LUX DIAGRAM



3%	1,14 lx
5%	1,90 lx
10%	3,81 lx
30%	11,4 lx
50%	19,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 38,1 lx

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



Total lumen output:

911 lm

Peak candela output:

1426 cd

PRODUCT NAME:
SMARTBATPLUSG2

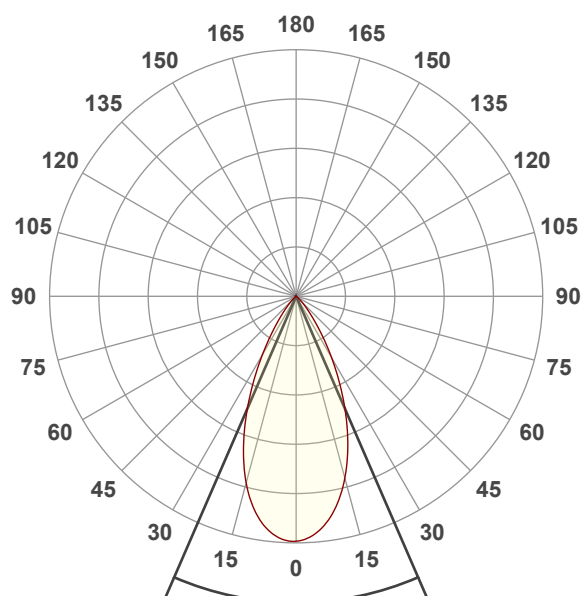
MEASUREMENT CONDITIONS:

Beam angle:
40° Filter

Target:
White Cal.Off.

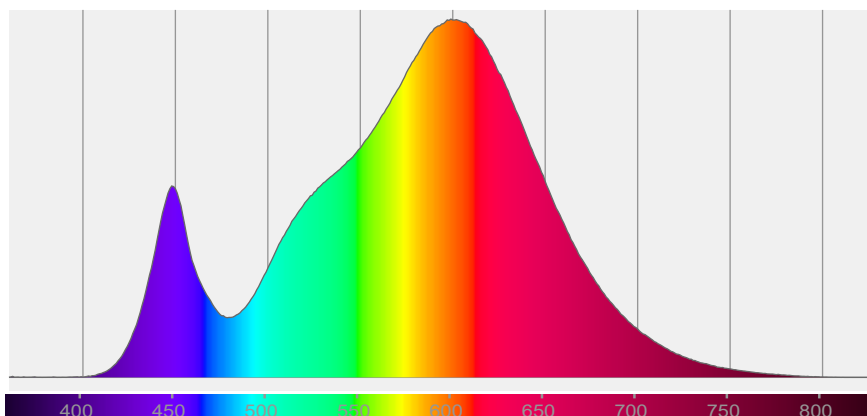
Operator:
Paolo Carvone

Date and time:
13/06/2022 14:46:02



Beam angle 50%: 46,9°
Field angle 10%: 76°
Cut off angle 2.5%: 92,5°

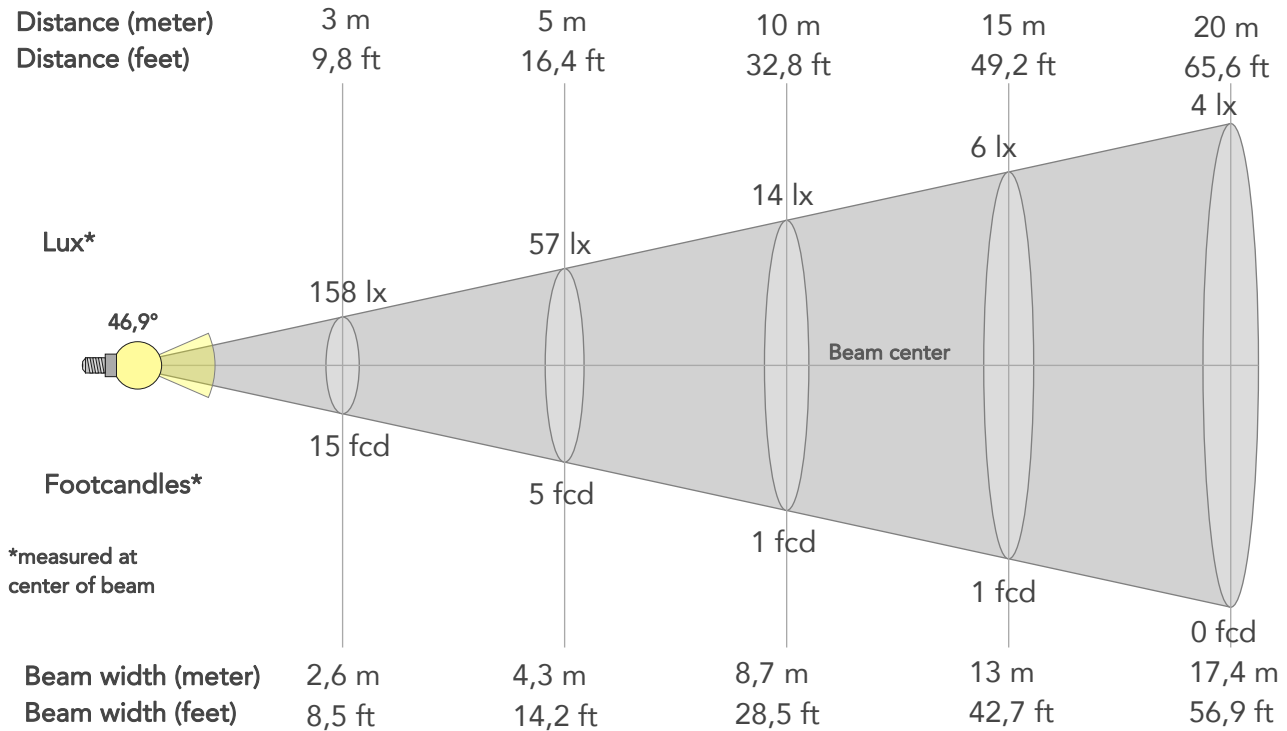
Spectra



BEAM DETAILS



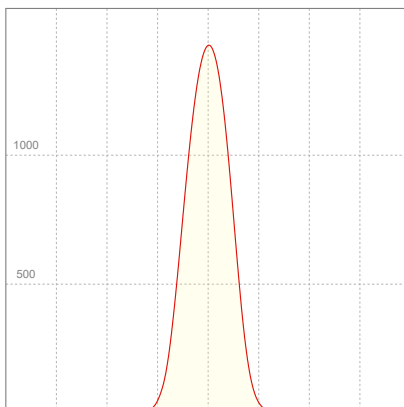
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46,9°	76°	92,5°	99,9%	97,8%



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	1424lx	356lx	158lx	89lx	57lx	25lx	14lx	6lx	4lx	2lx	2lx	1lx	1lx
Footcand.	132fcd	33fcd	15fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,3m	6,5m	8,7m	13m	17,4m	21,7m	26m	34,7m	43,4m
Beam wid.	2,9ft	5,7ft	8,5ft	11,4ft	14,2ft	21,4ft	28,5ft	42,7ft	56,9ft	71,2ft	85,4ft	113,9ft	142,4ft

LINEAR DISTRIBUTION DIAGRAM

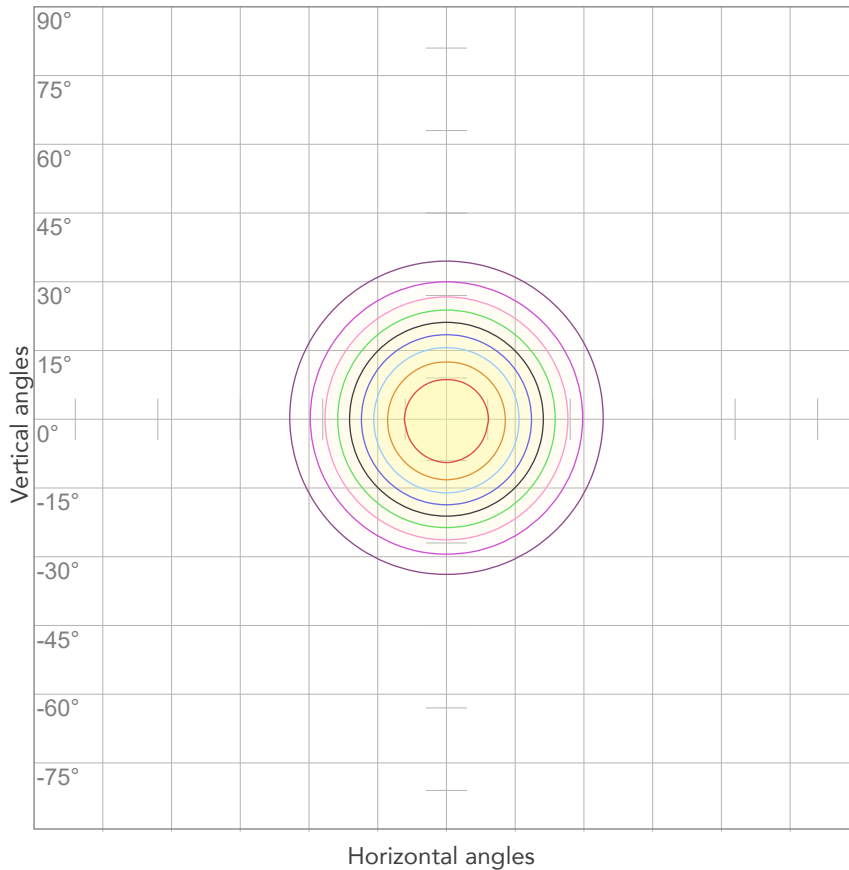


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,275A	26,7W	34lm/W

Power FC
0,43

ISO CANDELA DIAGRAM



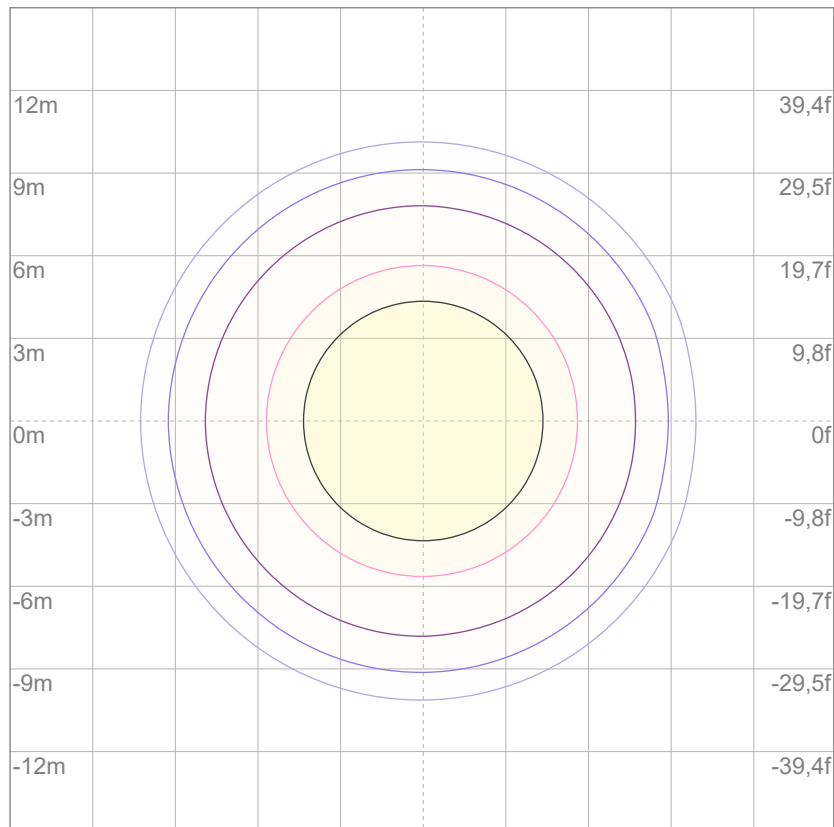
10%	142 cd
20%	285 cd
30%	427 cd
40%	569 cd
50%	712 cd
60%	854 cd
70%	996 cd
80%	1139 cd

Conditions:

Number of c-planes: 2

Candela at center: 1424 cd

ISO LUX DIAGRAM



3%	0,427 lx
5%	0,712 lx
10%	1,42 lx
30%	4,27 lx
50%	7,12 lx

Conditions:

Number of c-planes: 2

Lux at center: 14,2 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

899 lm

Peak candela output:

1079 cd

PRODUCT NAME:
SMARTBATPLUSG2

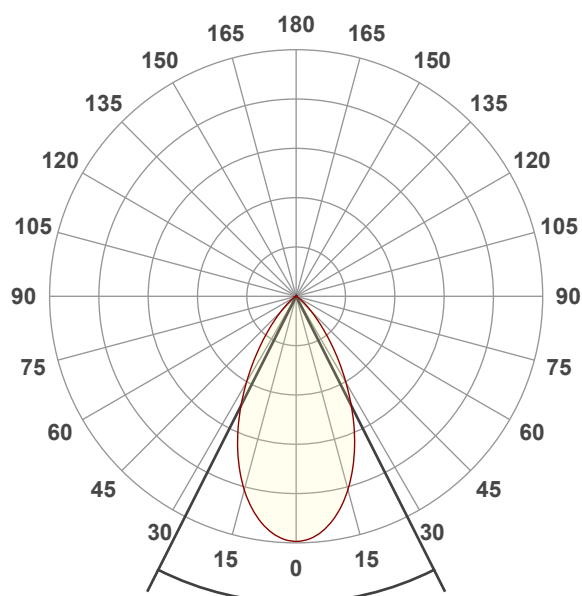
MEASUREMENT CONDITIONS:

Beam angle:
60° Filter

Target:
White Cal.Off.

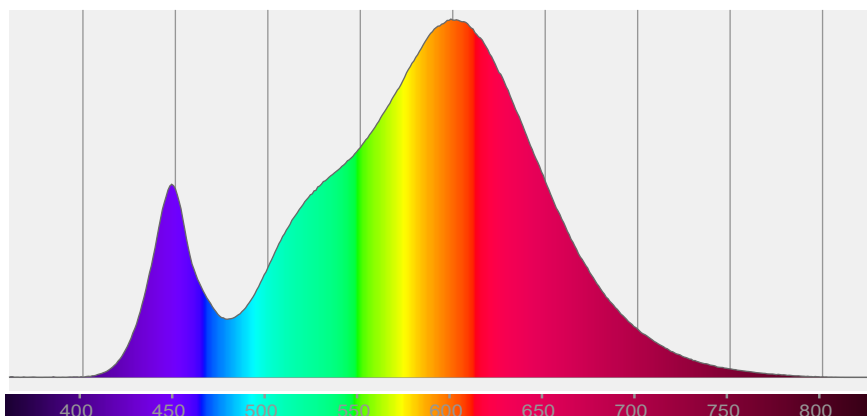
Operator:
Paolo Carvone

Date and time:
13/06/2022 14:22:57



Beam angle 50%: 53,5°
Field angle 10%: 88,3°
Cut off angle 2.5%: 106,6°

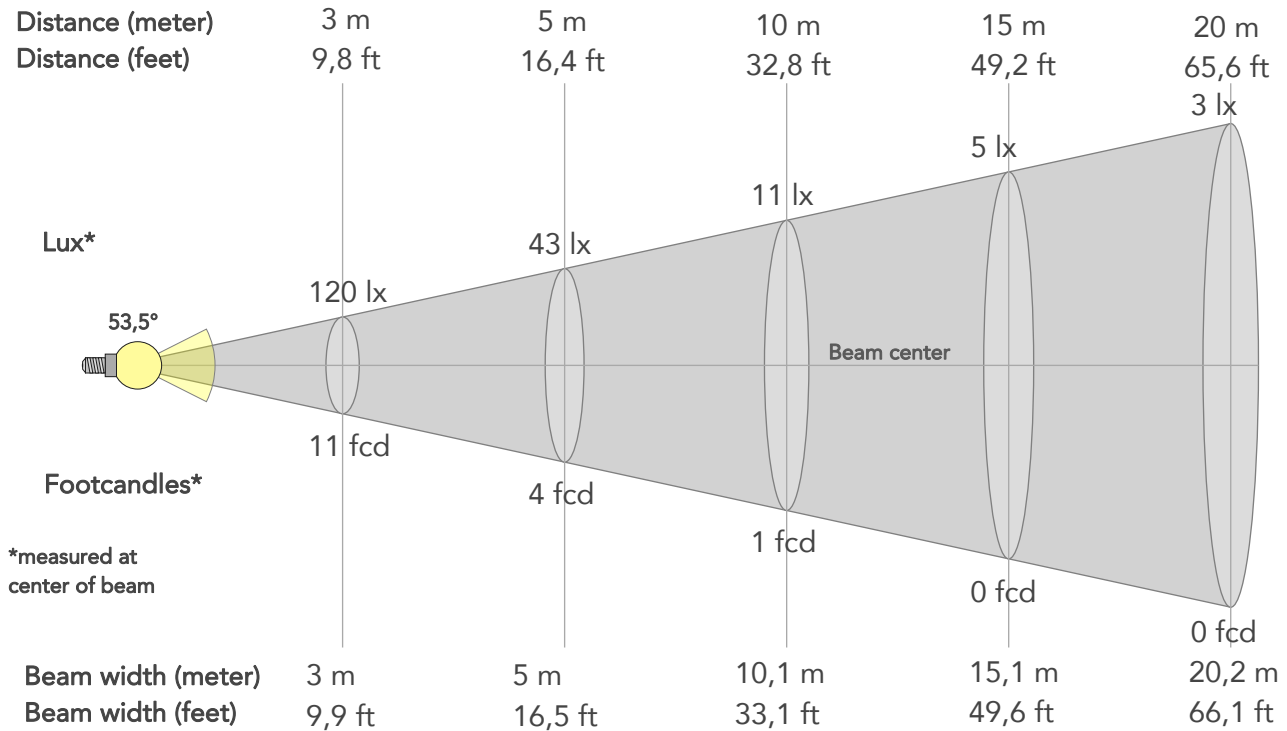
Spectra



BEAM DETAILS



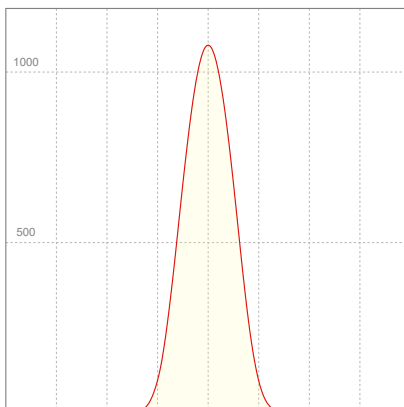
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,5°	88,3°	106,6°	99,6%	94,3%



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	1078lx	269lx	120lx	67lx	43lx	19lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	100fcd	25fcd	11fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,6m	10,1m	15,1m	20,2m	25,2m	30,3m	40,3m	50,4m
Beam wid.	3,3ft	6,7ft	9,9ft	13,2ft	16,5ft	24,8ft	33,1ft	49,6ft	66,1ft	82,7ft	99,2ft	132,3ft	165,4ft

LINEAR DISTRIBUTION DIAGRAM

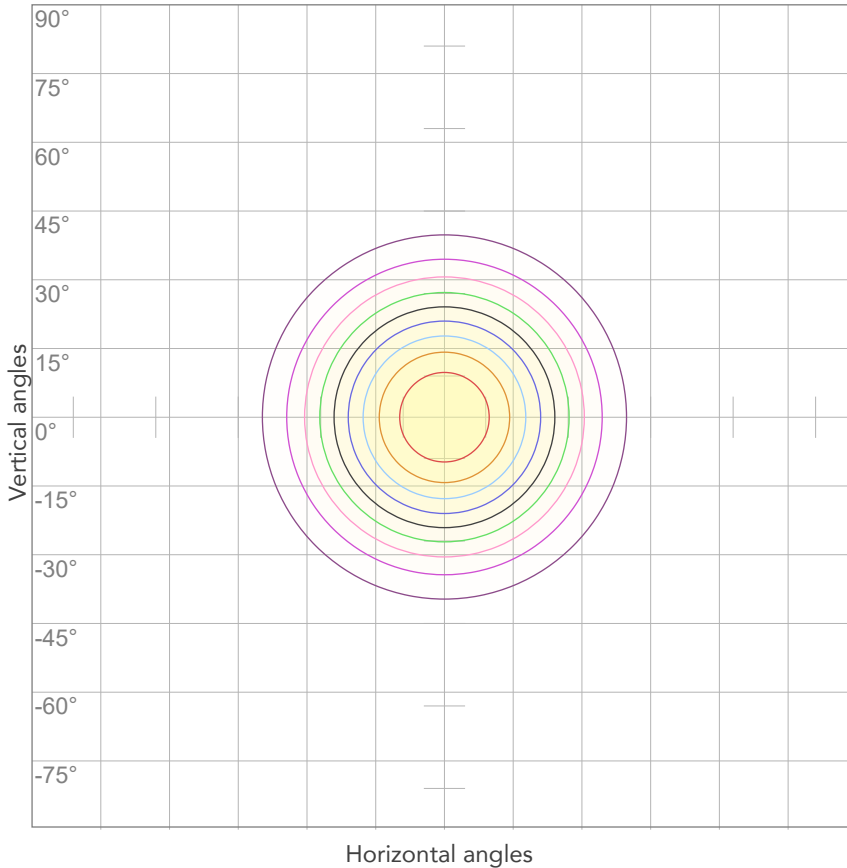


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,144A	28,4W	32lm/W

Power FC
0,87

ISO CANDELA DIAGRAM



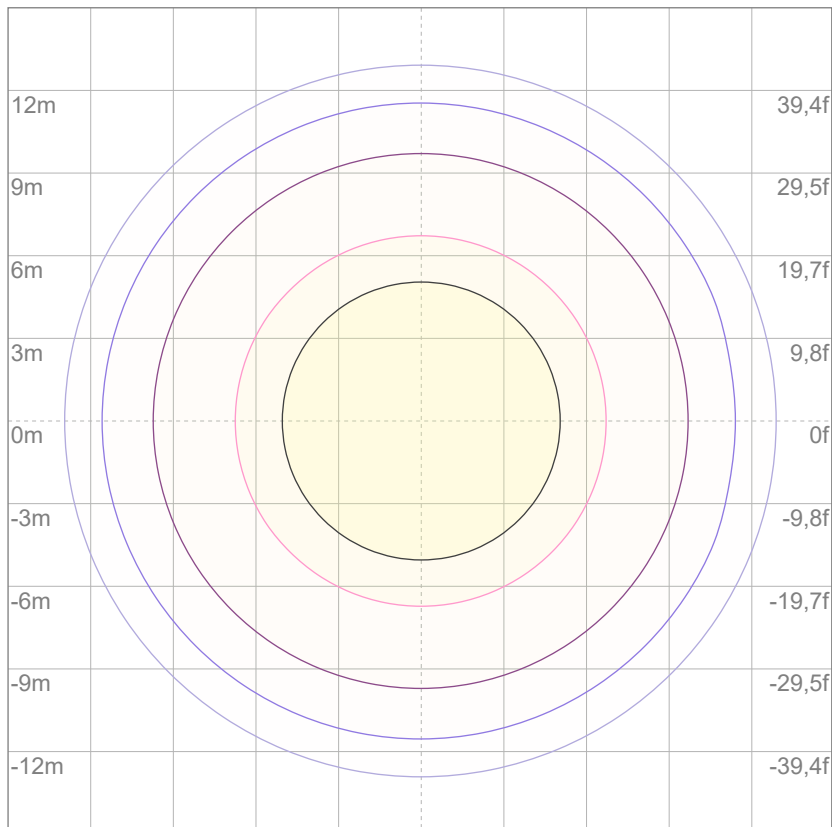
10%	108 cd
20%	216 cd
30%	323 cd
40%	431 cd
50%	539 cd
60%	647 cd
70%	755 cd
80%	862 cd

Conditions:

Number of c-planes: 2

Candela at center: 1078 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,323 lx
5%	0,539 lx
10%	1,08 lx
30%	3,23 lx
50%	5,39 lx

Conditions:

Number of c-planes: 2

Lux at center: 10,8 lx

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



Total lumen output:

1360 lm

Peak candela output:

2510 cd

PRODUCT NAME:
SMARTBATPLUSG2

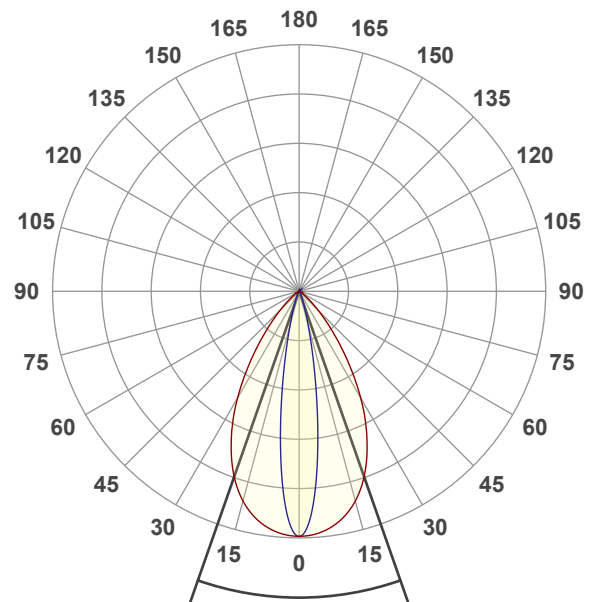
MEASUREMENT CONDITIONS:

Beam angle:
1060 Filter

Target:
White On Cal.Off.

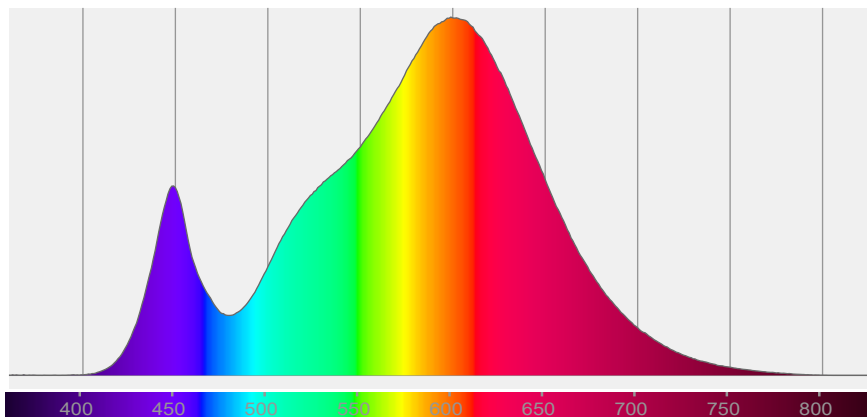
Operator:
Paolo Carvone

Date and time:
10/06/2022 13:26:39



Beam angle 50%: 38,6°
Field angle 10%: 62,4°
Cut off angle 2.5%: 78,3°

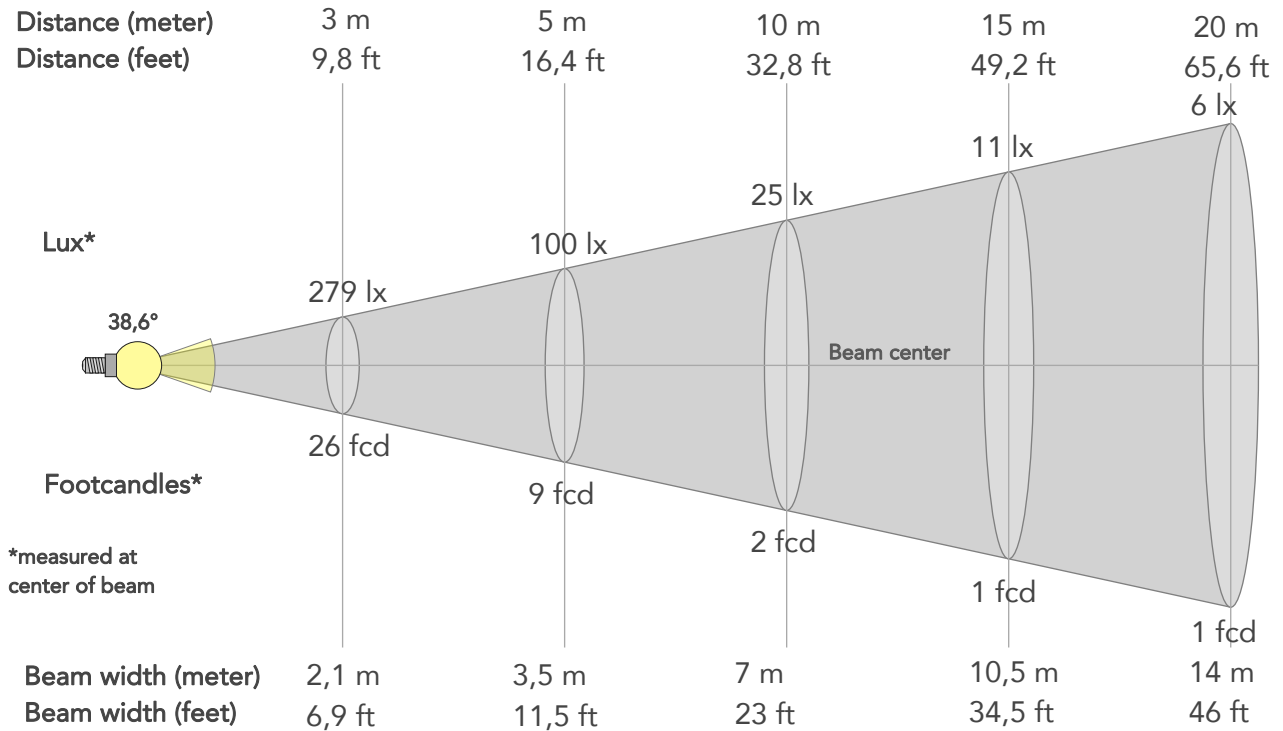
Spectra



BEAM DETAILS



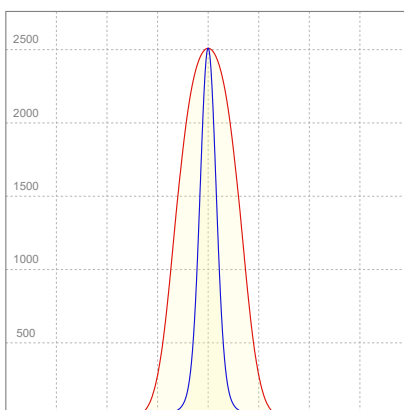
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38,6°	62,4°	78,3°	99,8%	95,1%



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	2509lx	627lx	279lx	157lx	100lx	45lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	233fcd	58fcd	26fcd	15fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,3m	7m	10,5m	14m	17,5m	21m	28m	35m
Beam wid.	2,3ft	4,6ft	6,9ft	9,2ft	11,5ft	17,2ft	23ft	34,5ft	46ft	57,4ft	68,9ft	91,9ft	114,9ft

LINEAR DISTRIBUTION DIAGRAM

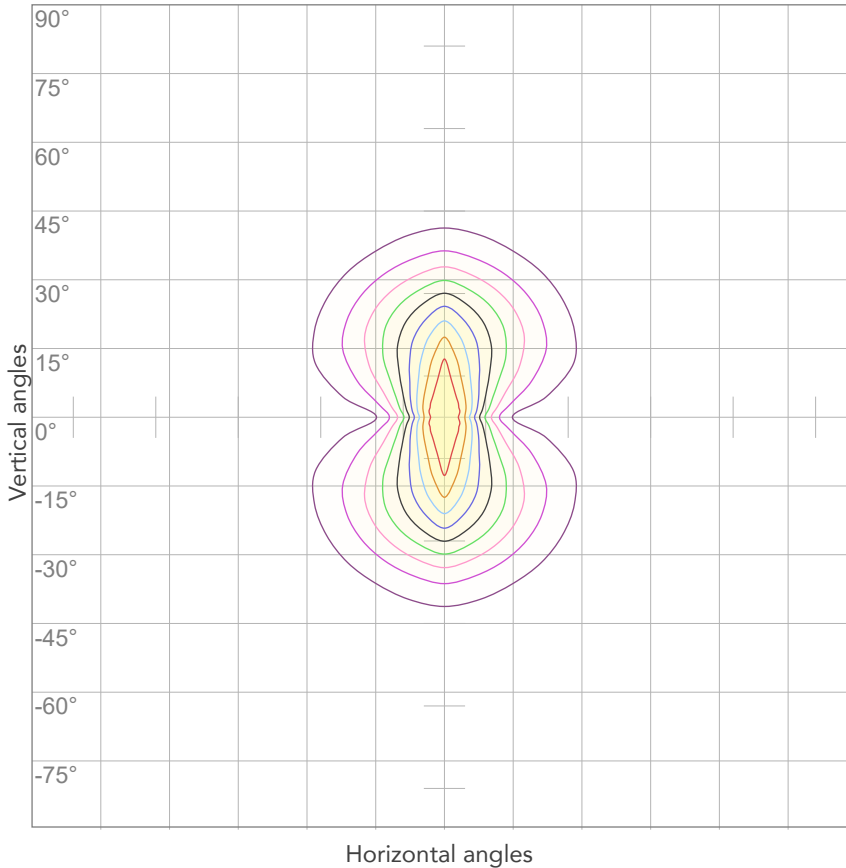


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,313A	26,7W	51lm/W

Power FC
0,37

ISO CANDELA DIAGRAM



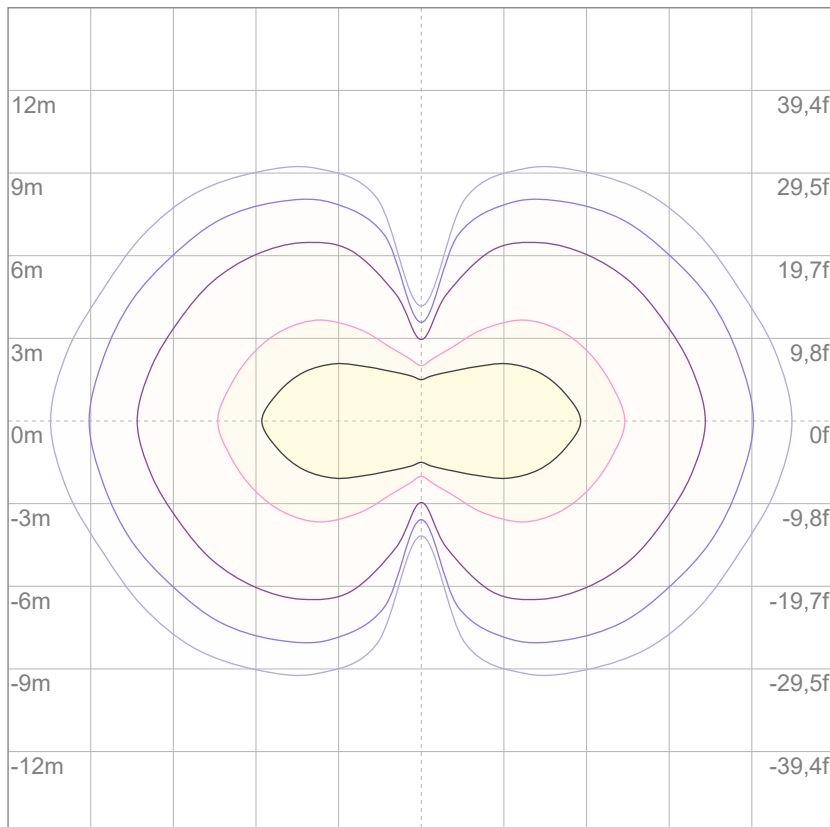
10%	251 cd
20%	502 cd
30%	753 cd
40%	1004 cd
50%	1255 cd
60%	1505 cd
70%	1756 cd
80%	2007 cd

Conditions:

Number of c-planes: 4

Candela at center: 2509 cd

ISO LUX DIAGRAM



3%	0,753 lx
5%	1,25 lx
10%	2,51 lx
30%	7,53 lx
50%	12,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 25,1 lx

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



Total lumen output:

1127 lm

Peak candela output:

24236 cd

Light quality:

CRI: 83,4

Color temperature:

2755 K

PRODUCT NAME:
SMARTBATPLUSG2

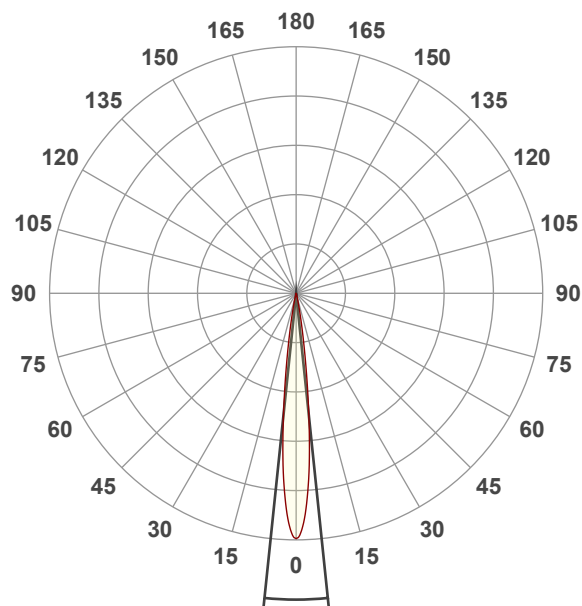
MEASUREMENT CONDITIONS:

Beam angle:
Native Optic (Without Filter)

Target:
2800K Cal.On.

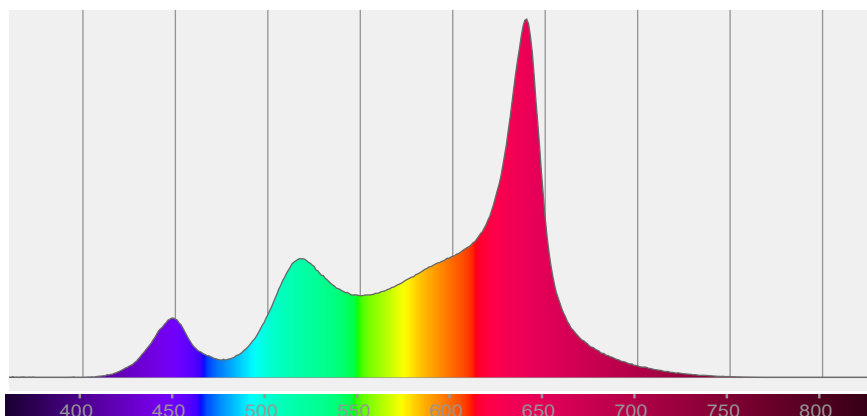
Operator:
Paolo Carvone

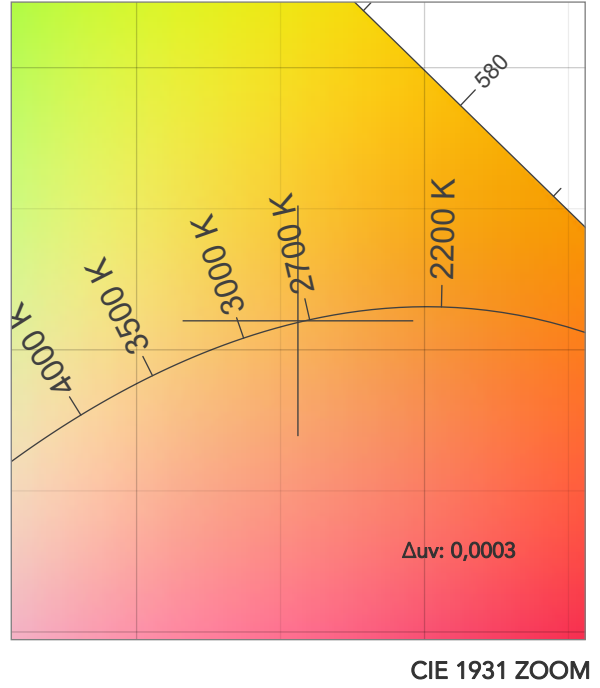
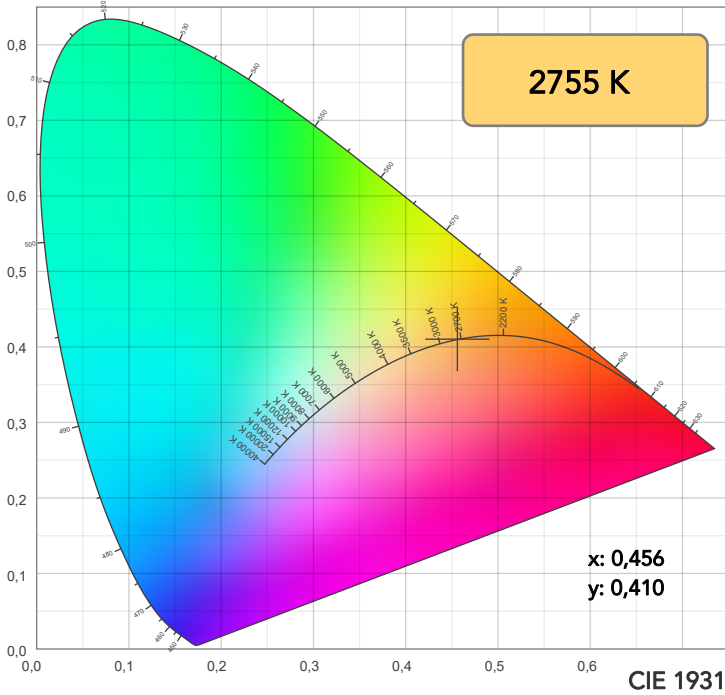
Date and time:
10/06/2022 12:54:28



Beam angle 50%: 11,9°
Field angle 10%: 20,8°
Cut off angle 2.5%: 26,4°

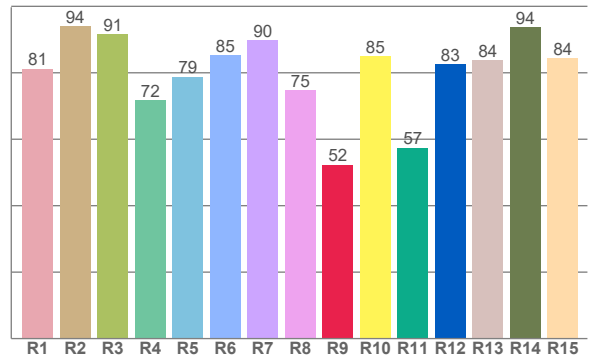
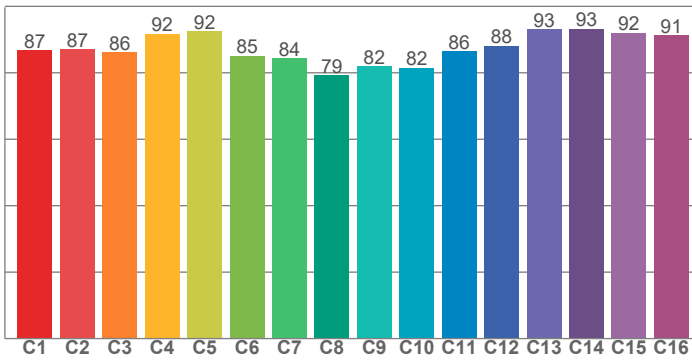
Spectra





TM30: 87,6

CRI: 83,4 (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
81,2	94,1	91,5	71,7	78,8	85,3	89,9	74,7	52,3	84,9	57,4	82,5	83,8	93,6	84,3

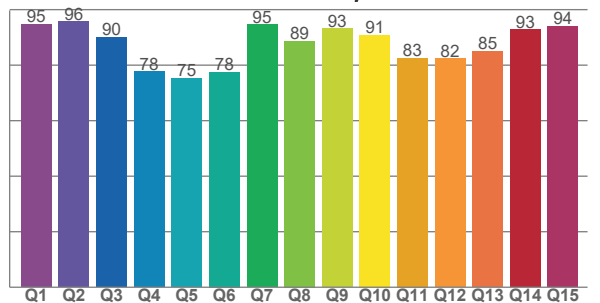
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
86,7	87,1	86,1	91,8	92,5	85,1	84,3	79,2	81,9	81,5	86,5	88,0	93,1	93,2	92,0	91,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,7	95,7	90,1	77,7	75,3	77,5	94,6	88,7	93,2	90,8	82,6	82,4	85,0	92,8	94,0

CQS: 85,6



COLOR PARAMETERS

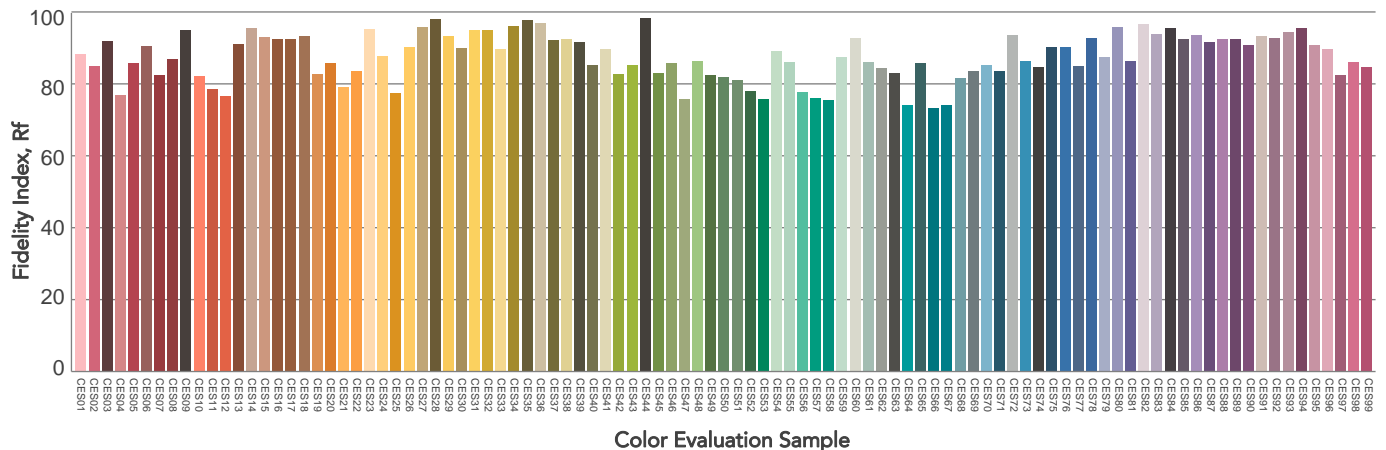
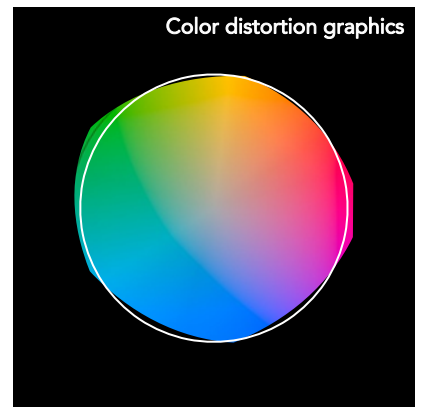
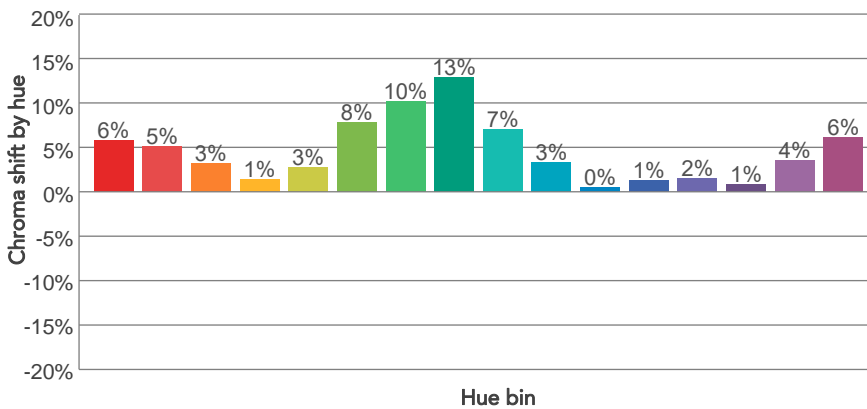
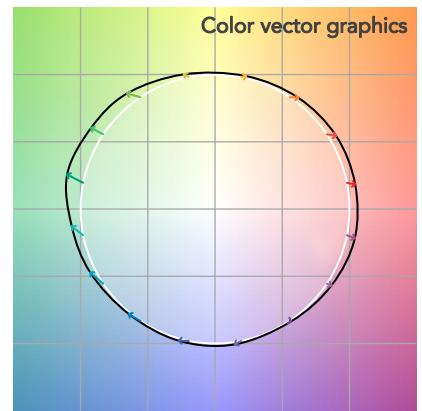
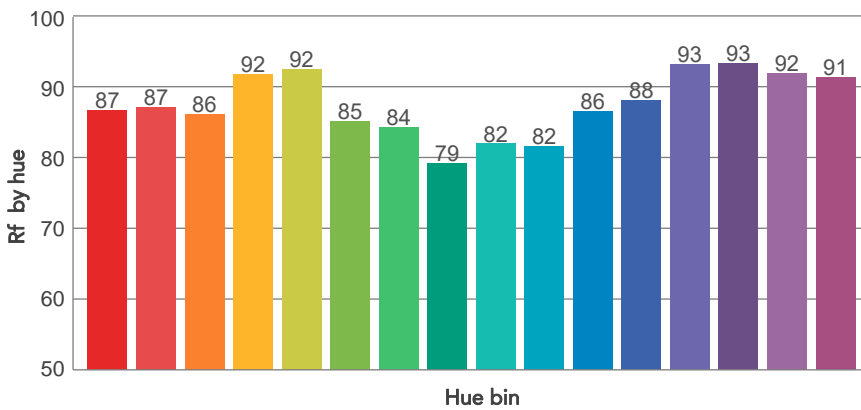
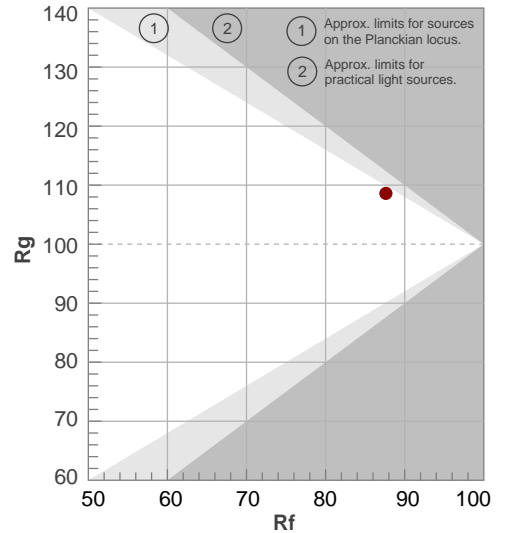
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2755 K	83,4	52,3	87,6	108,6	85,6	65	0,456	0,410	0,0003

TM30 DETAILS

Rf 87,6
Fidelity index Rf

Rg 108,6
Gammut index

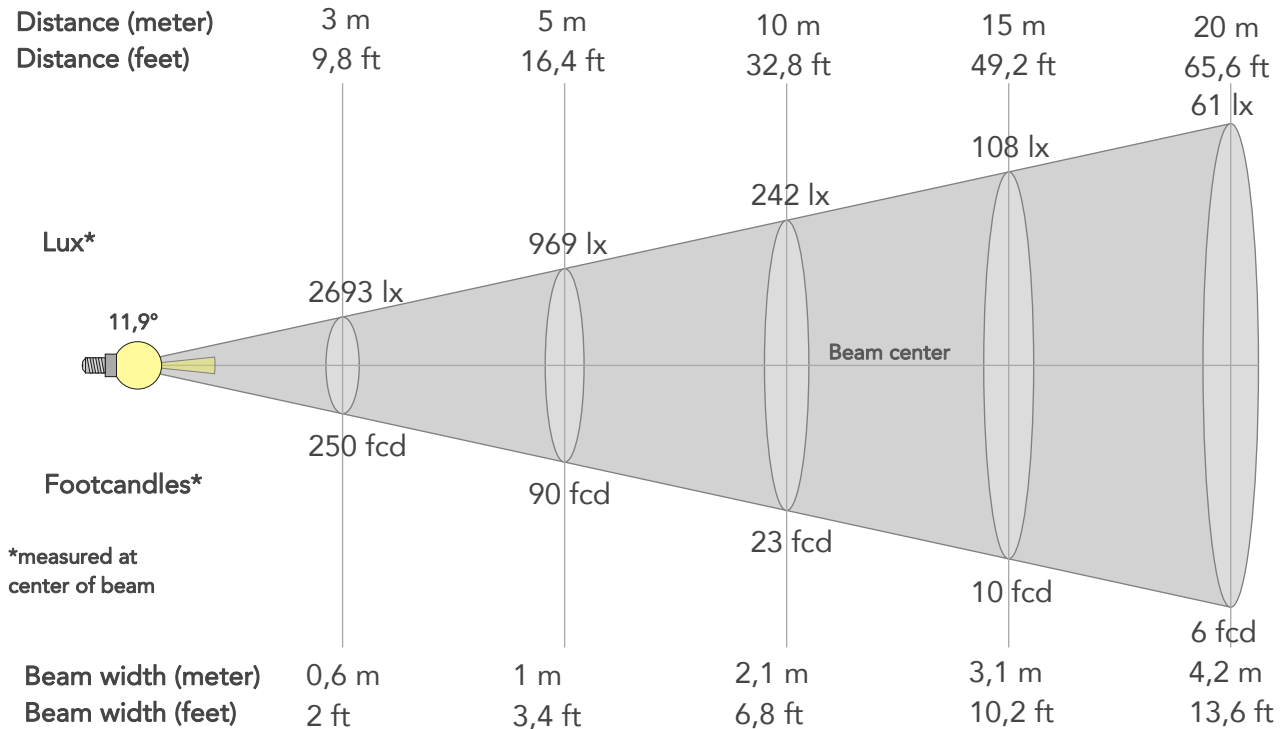
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	87	6%	-2%
2	87	5%	-5%
3	86	3%	-5%
4	92	1%	-3%
5	92	3%	3%
6	85	8%	7%
7	84	10%	1%
8	79	13%	-4%
9	82	7%	-8%
10	82	3%	-12%
11	86	0%	-10%
12	88	1%	-7%
13	93	2%	-5%
14	93	1%	1%
15	92	4%	1%
16	91	6%	-1%



BEAM DETAILS



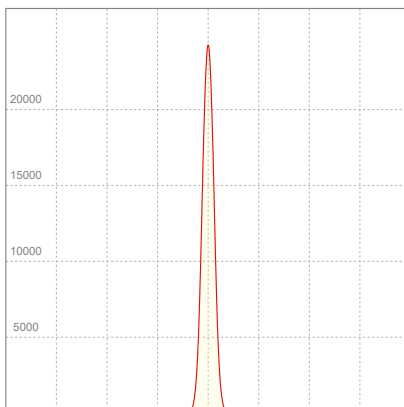
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,9°	20,8°	26,4°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	24236lx	6059lx	2693lx	1515lx	969lx	431lx	242lx	108lx	61lx	39lx	27lx	15lx	10lx
Footcand.	2252fcd	563fcd	250fcd	141fcd	90fcd	40fcd	23fcd	10fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,6m	2,1m	3,1m	4,2m	5,2m	6,2m	8,3m	10,4m
Beam wid.	0,7ft	1,4ft	2ft	2,7ft	3,4ft	5,1ft	6,8ft	10,2ft	13,6ft	17ft	20,5ft	27,3ft	34,1ft

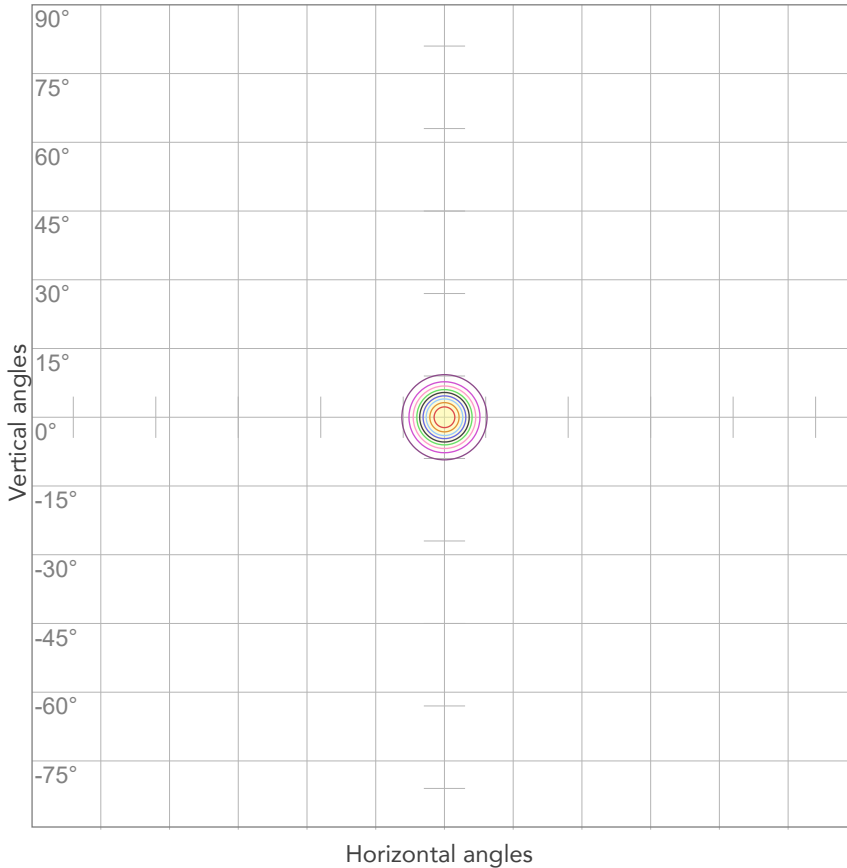
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,182A	37,7W	30lm/W

ISO CANDELA DIAGRAM



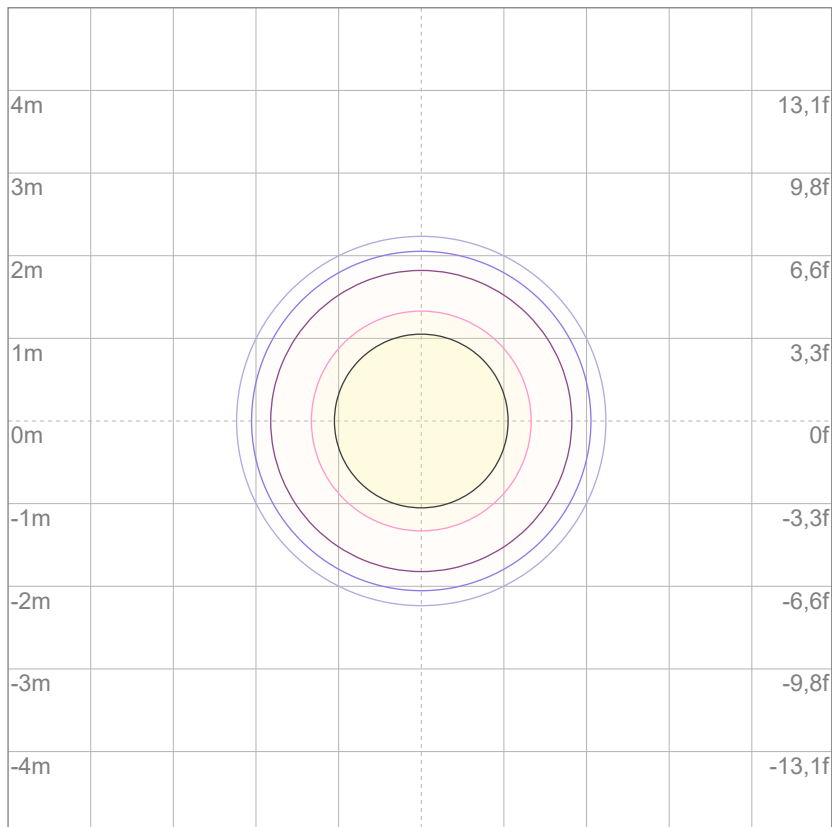
10%	2424 cd
20%	4847 cd
30%	7271 cd
40%	9695 cd
50%	12118 cd
60%	14542 cd
70%	16966 cd
80%	19389 cd

Conditions:

Number of c-planes: 2

Candela at center: 24236 cd

ISO LUX DIAGRAM



3%	7,27 lx
5%	12,1 lx
10%	24,2 lx
30%	72,7 lx
50%	121 lx

Conditions:

Number of c-planes: 2

Lux at center: 242 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

1163 lm

Peak candela output:

5147 cd

Light quality:

CRI: 84,8

Color temperature:

2871 K

PRODUCT NAME:
SMARTBATPLUSG2

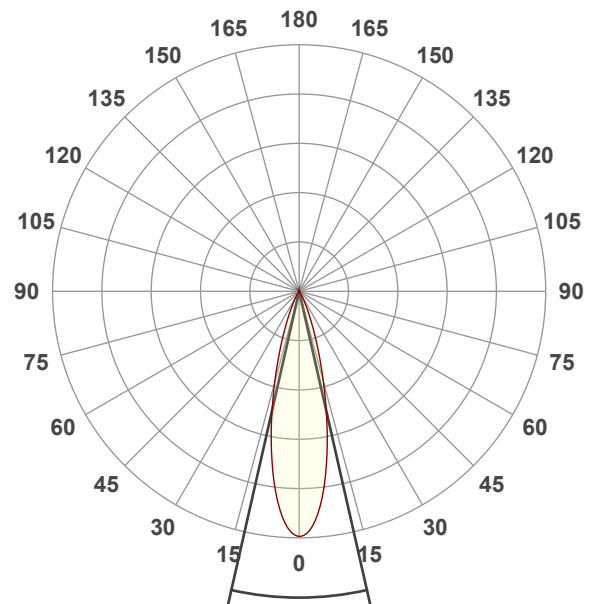
MEASUREMENT CONDITIONS:

Beam angle:
20° Filter

Target:
2800K Cal.On.

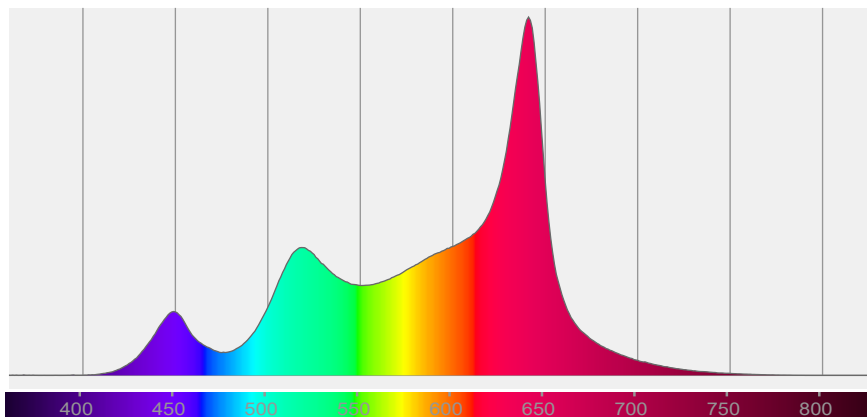
Operator:
Paolo Carvone

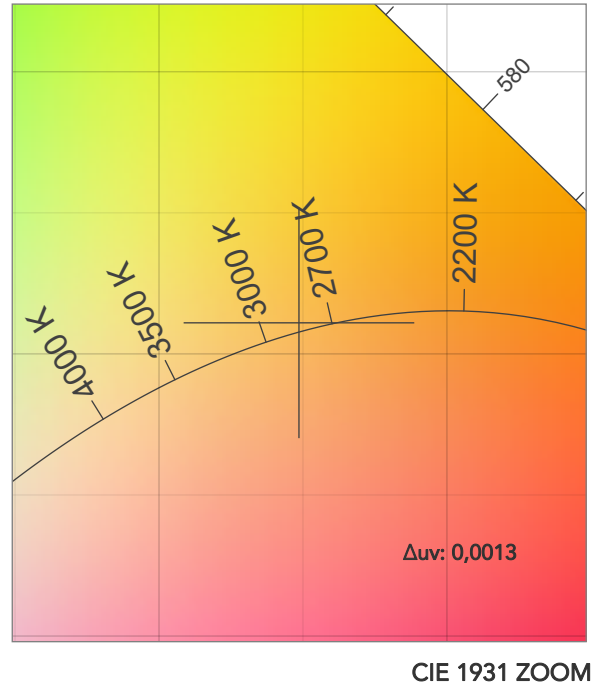
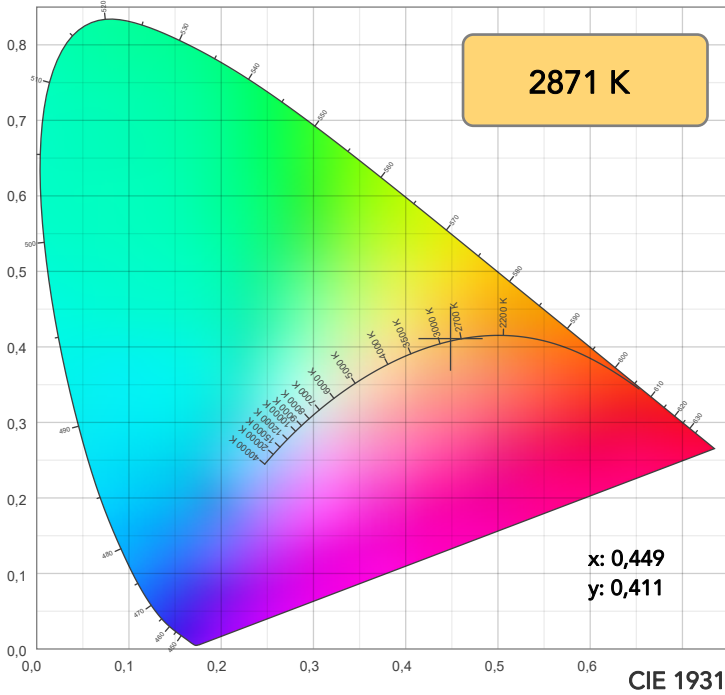
Date and time:
13/06/2022 15:10:25



Beam angle 50%: 25,6°
Field angle 10%: 46,8°
Cut off angle 2.5%: 60,3°

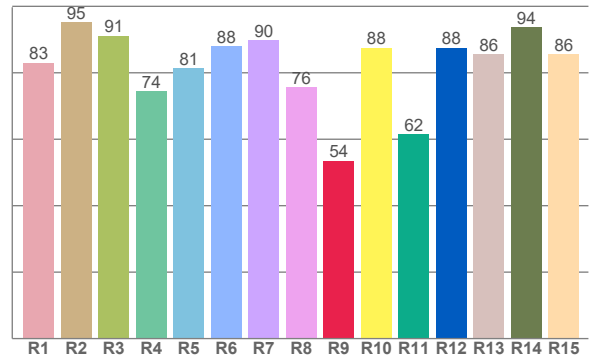
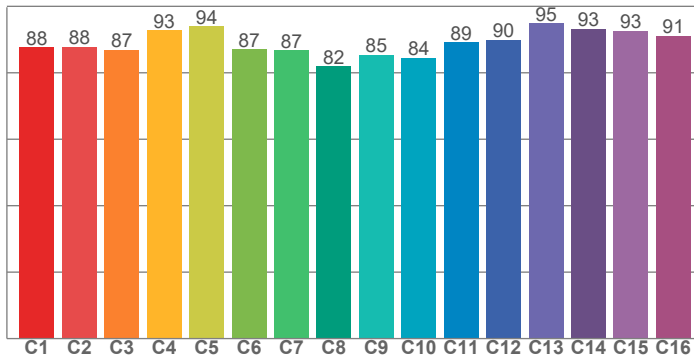
Spectra





TM30: 89,2

CRI: 84,8 (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
83,0	95,2	91,2	74,3	81,3	88,0	89,8	75,6	53,5	87,6	61,6	87,6	85,6	93,6	85,6

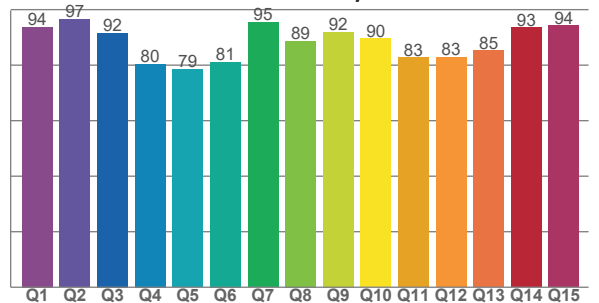
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,7	87,8	86,8	92,7	94,0	87,1	86,8	82,0	85,4	84,4	89,2	90,0	94,9	93,2	92,7	91,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,7	96,5	91,5	80,4	78,5	81,1	95,4	88,7	91,9	89,5	82,7	82,8	85,3	93,5	94,2

CQS: 86,8



COLOR PARAMETERS

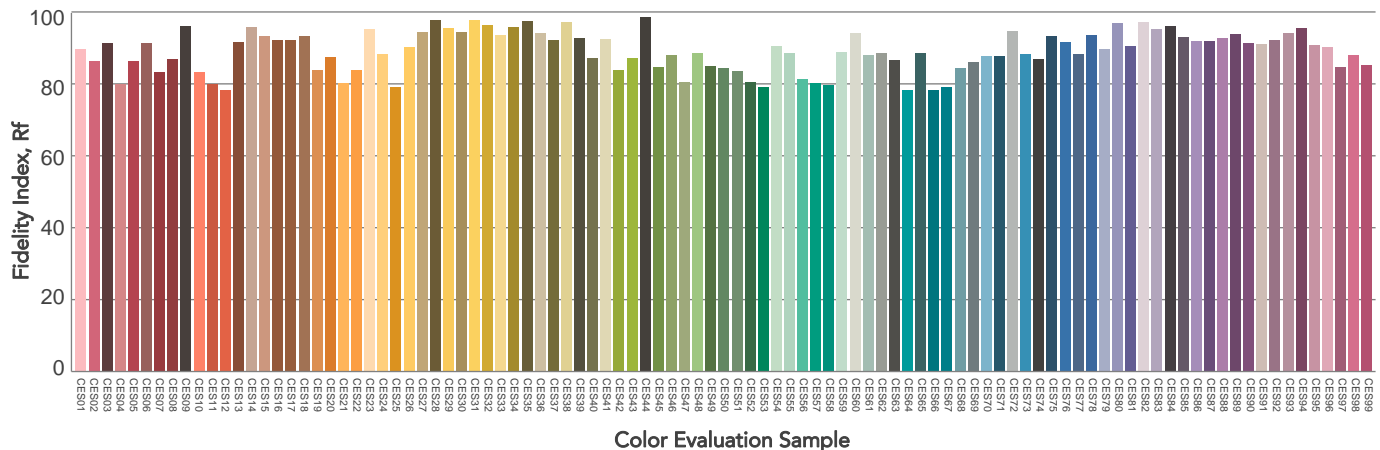
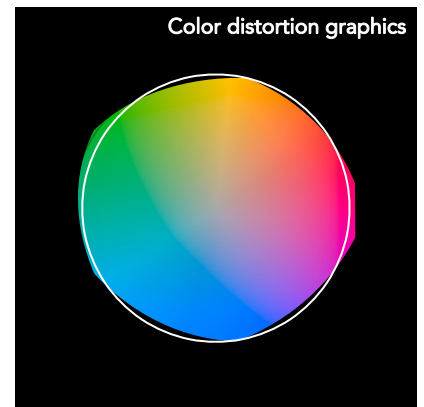
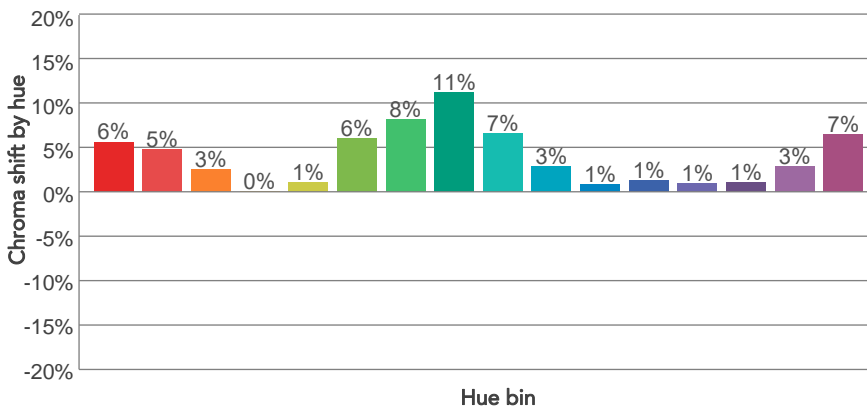
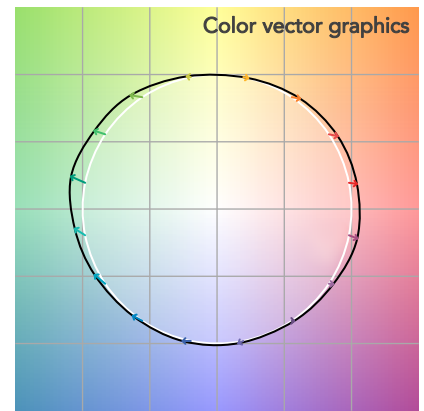
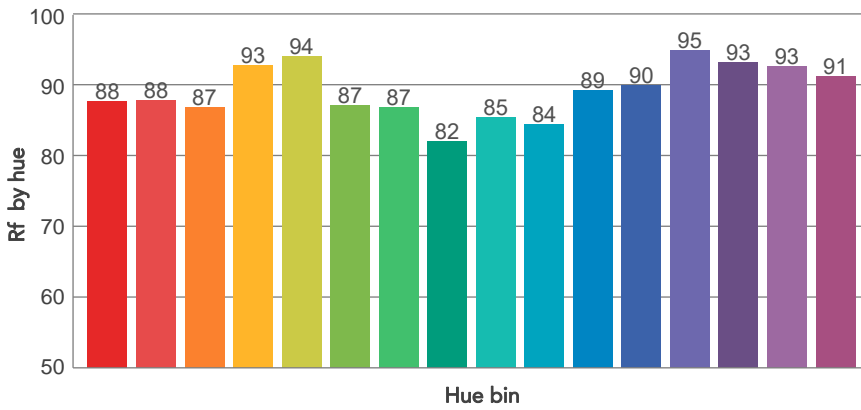
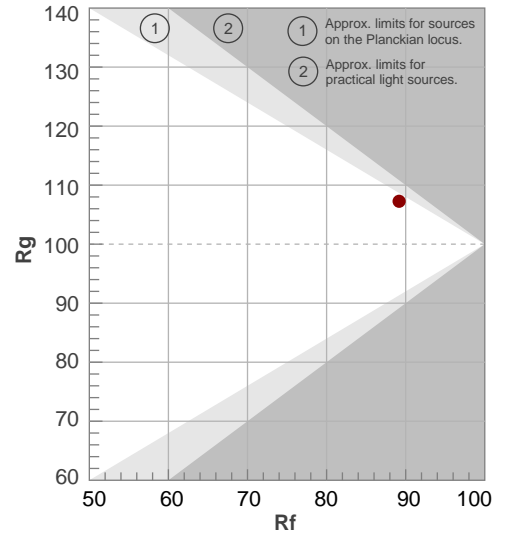
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2871 K	84,8	53,5	89,2	107,3	86,8	72	0,449	0,411	0,0013

TM30 DETAILS

Rf 89,2
Fidelity index Rf

Rg 107,3
Gammut index

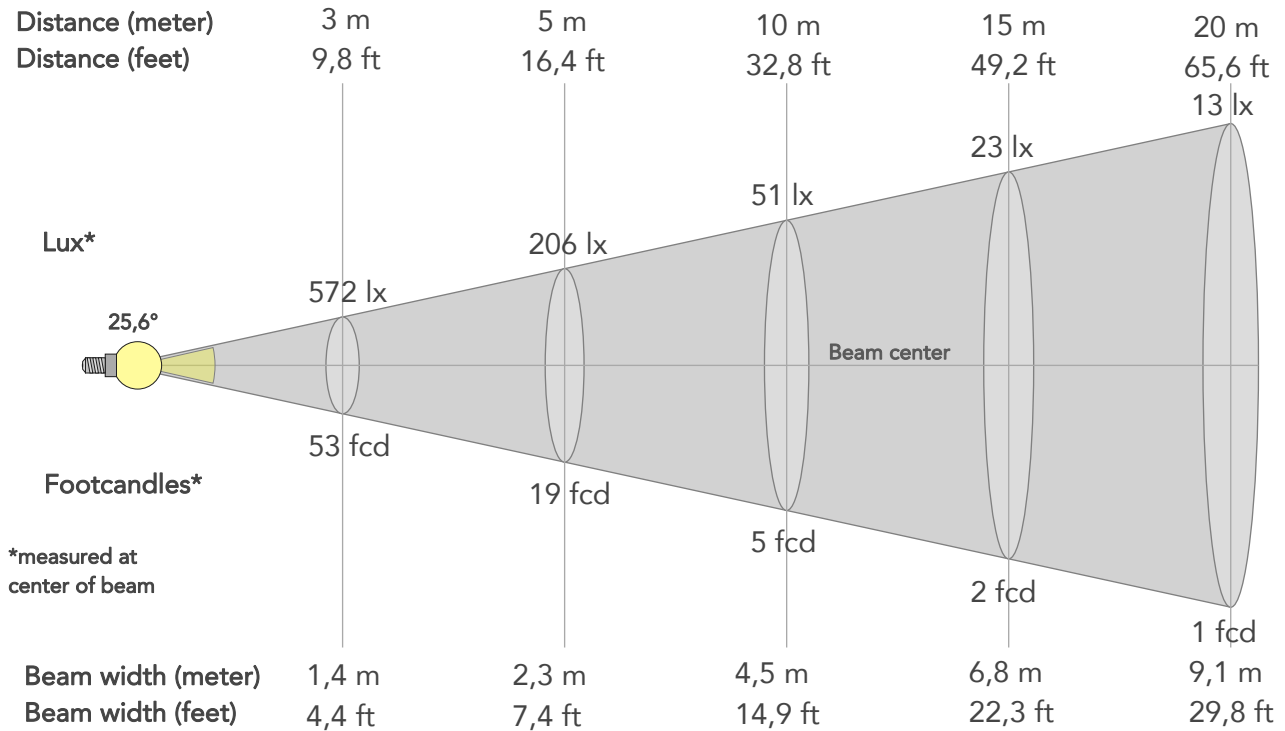
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	6%	-2%
2	88	5%	-5%
3	87	3%	-6%
4	93	0%	-4%
5	94	1%	3%
6	87	6%	6%
7	87	8%	2%
8	82	11%	-3%
9	85	7%	-6%
10	84	3%	-10%
11	89	1%	-8%
12	90	1%	-6%
13	95	1%	-4%
14	93	1%	1%
15	93	3%	2%
16	91	7%	-1%



BEAM DETAILS



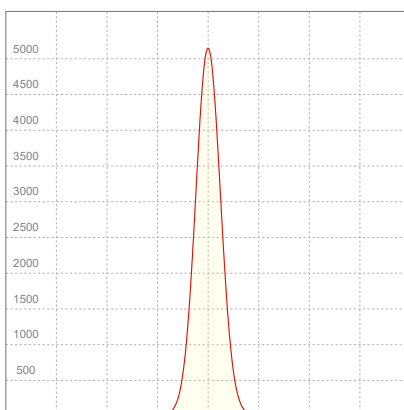
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,6°	46,8°	60,3°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	5146lx	1287lx	572lx	322lx	206lx	91lx	51lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	478fcd	120fcd	53fcd	30fcd	19fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,5m	6,8m	9,1m	11,3m	13,6m	18,2m	22,7m
Beam wid.	1,5ft	3ft	4,4ft	5,9ft	7,4ft	11,2ft	14,9ft	22,3ft	29,8ft	37,2ft	44,7ft	59,5ft	74,4ft

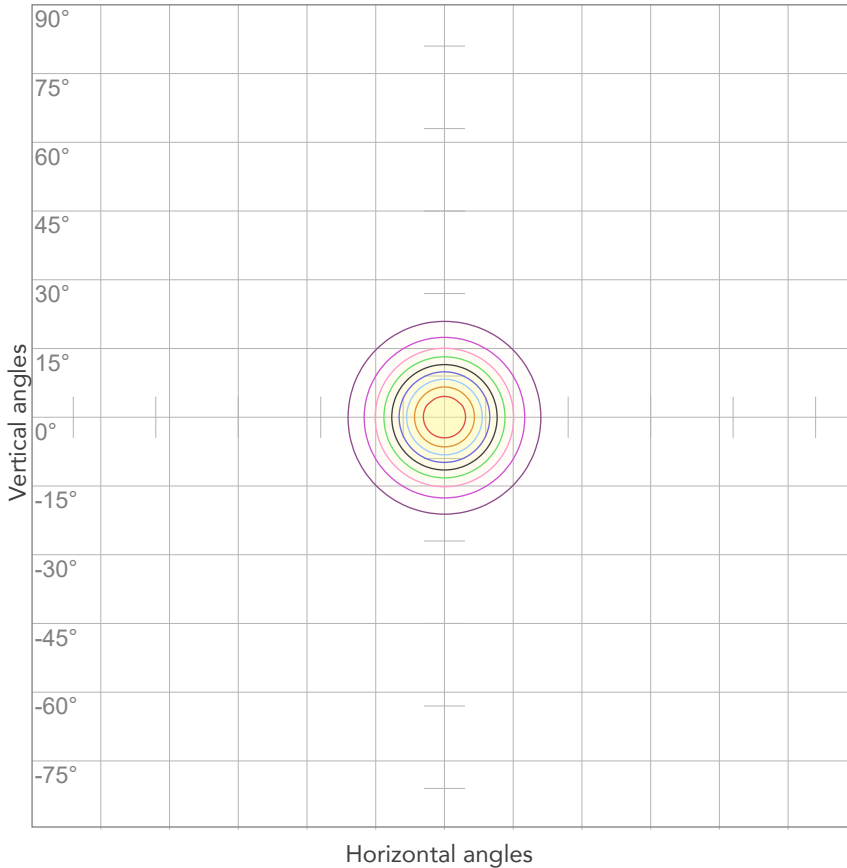
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,180A	37,2W	31lm/W

ISO CANDELA DIAGRAM



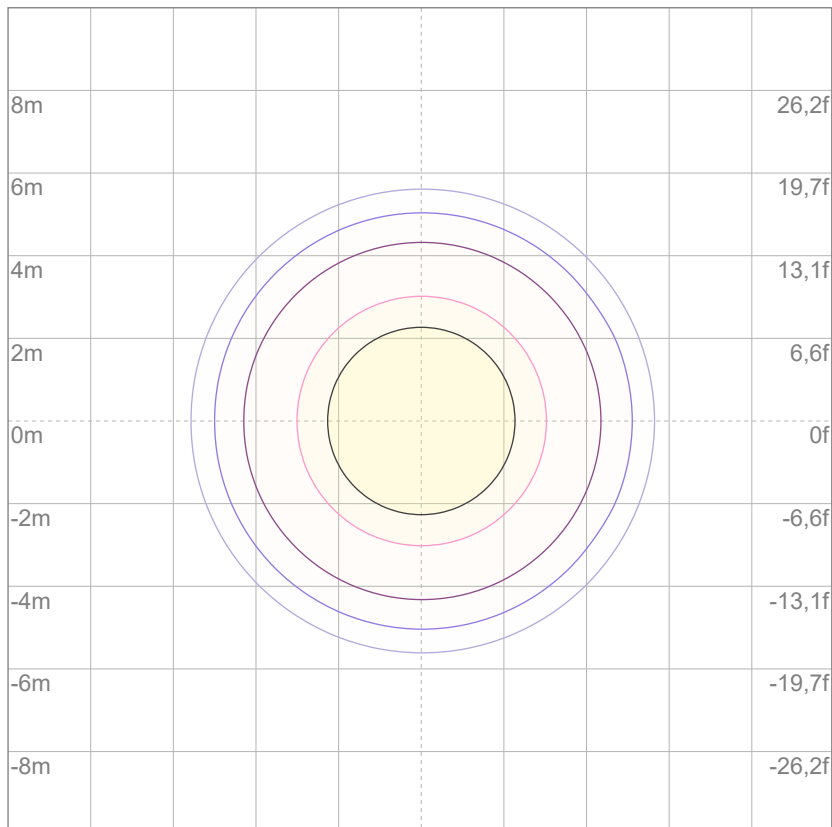
10%	515 cd
20%	1029 cd
30%	1544 cd
40%	2058 cd
50%	2573 cd
60%	3088 cd
70%	3602 cd
80%	4117 cd

Conditions:

Number of c-planes: 2

Candela at center: 5146 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 51,5 lx

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



Total lumen output:

1220 lm

Peak candela output:

1924 cd

Light quality:

CRI: 84,5

Color temperature:

2871 K

PRODUCT NAME:
SMARTBATPLUSG2

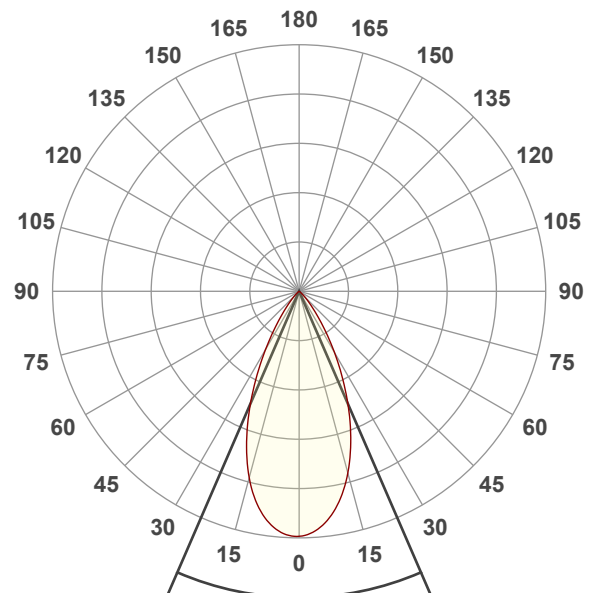
MEASUREMENT CONDITIONS:

Beam angle:
40° Filter

Target:
2800K Cal.On.

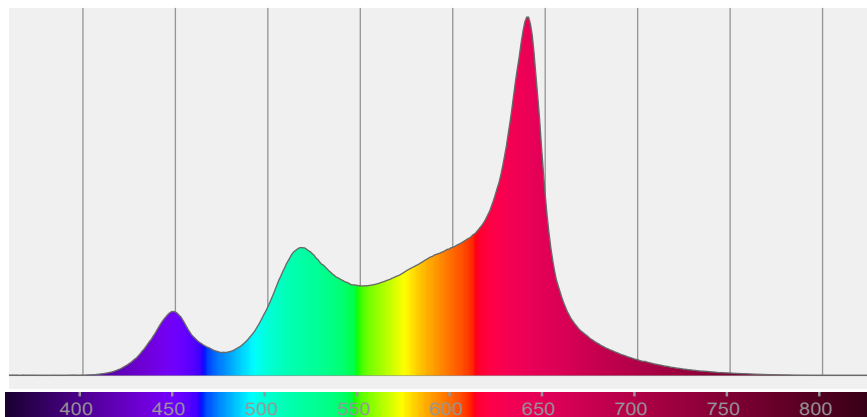
Operator:
Paolo Carvone

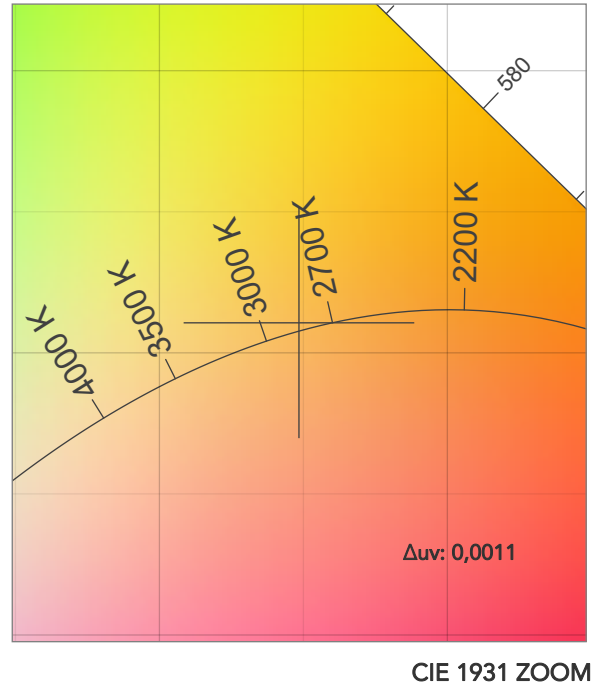
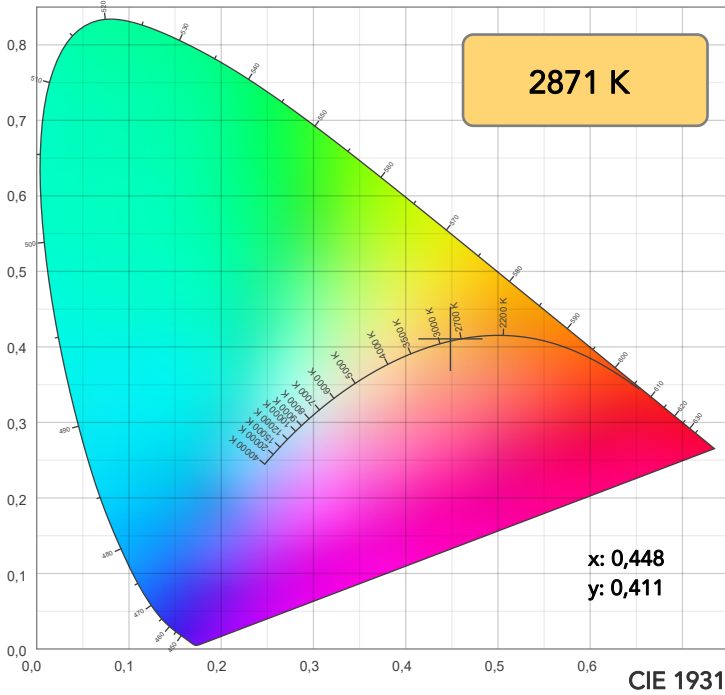
Date and time:
13/06/2022 14:48:30



Beam angle 50%: 46,9°
Field angle 10%: 75,8°
Cut off angle 2.5%: 91,9°

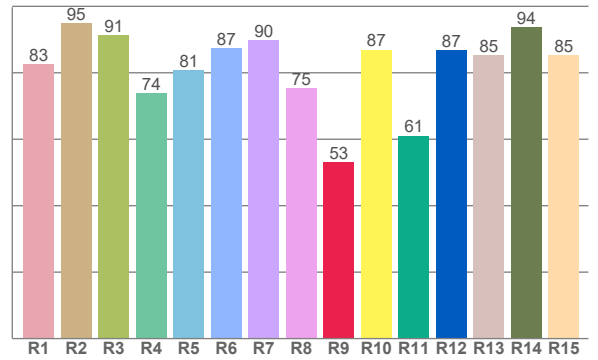
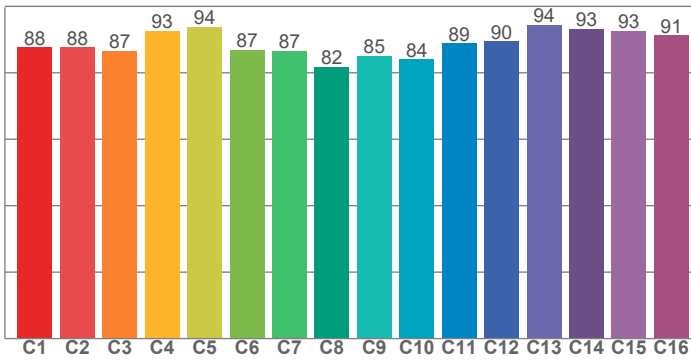
Spectra





TM30: 89,0

CRI: 84,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82,6	94,9	91,3	73,9	80,8	87,4	89,9	75,4	53,1	87,0	61,0	86,8	85,2	93,7	85,3

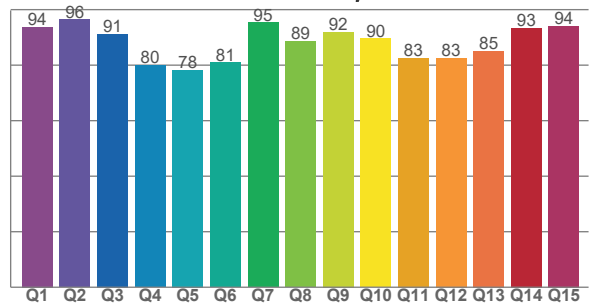
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,6	87,6	86,6	92,6	93,9	87,0	86,6	81,7	85,1	84,1	88,8	89,5	94,4	93,2	92,6	91,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,8	96,4	91,2	80,0	78,2	80,9	95,4	88,6	92,0	89,5	82,5	82,6	85,2	93,4	94,1

CQS: 86,6



COLOR PARAMETERS

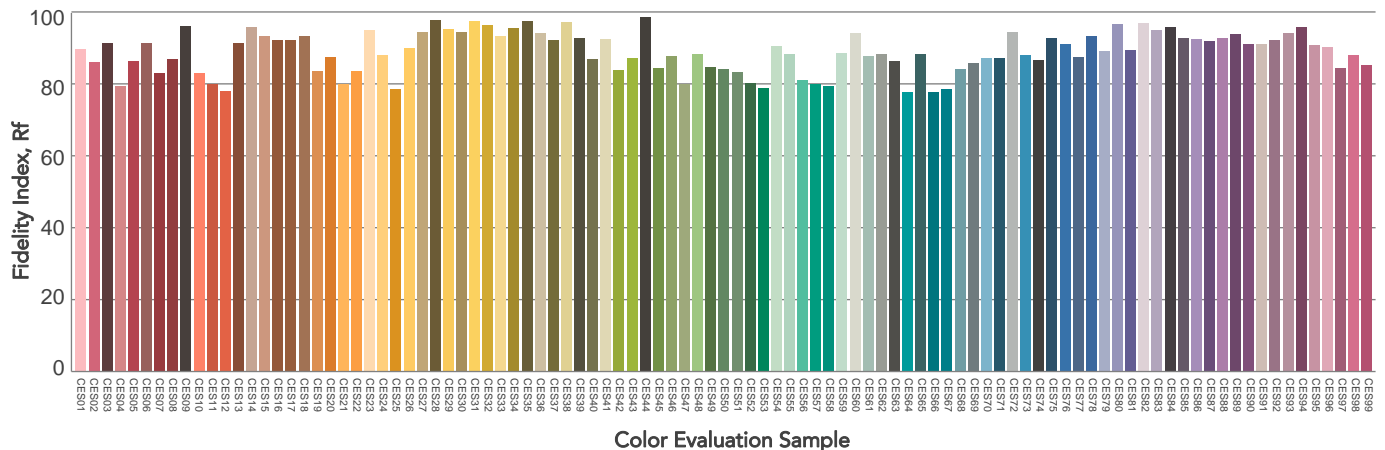
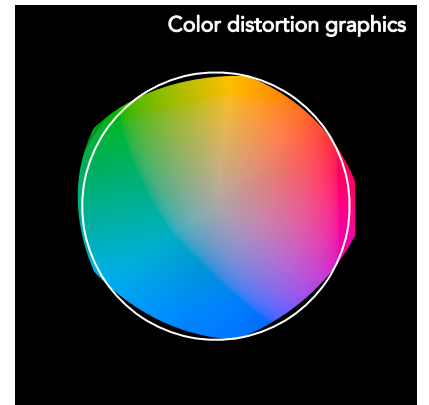
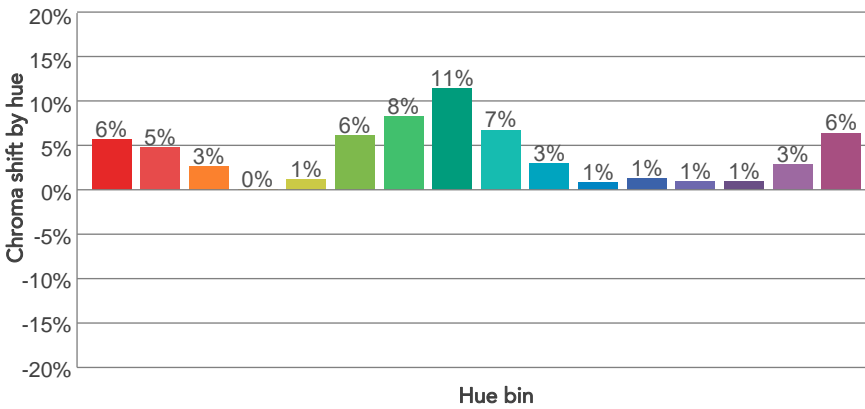
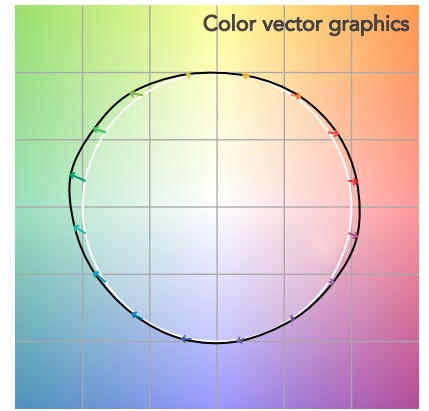
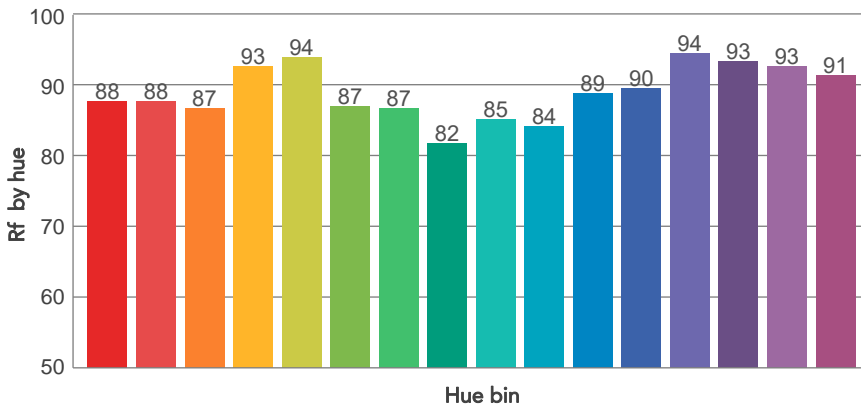
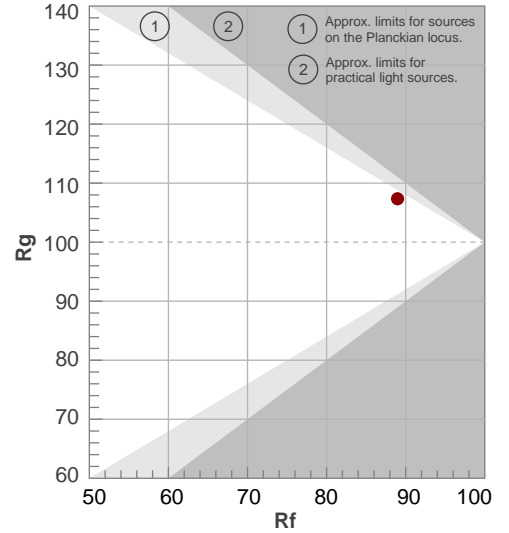
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2871 K	84,5	53,1	89,0	107,4	86,6	71	0,448	0,411	0,0011

TM30 DETAILS

Rf 89,0
Fidelity index Rf

Rg 107,4
Gammut index

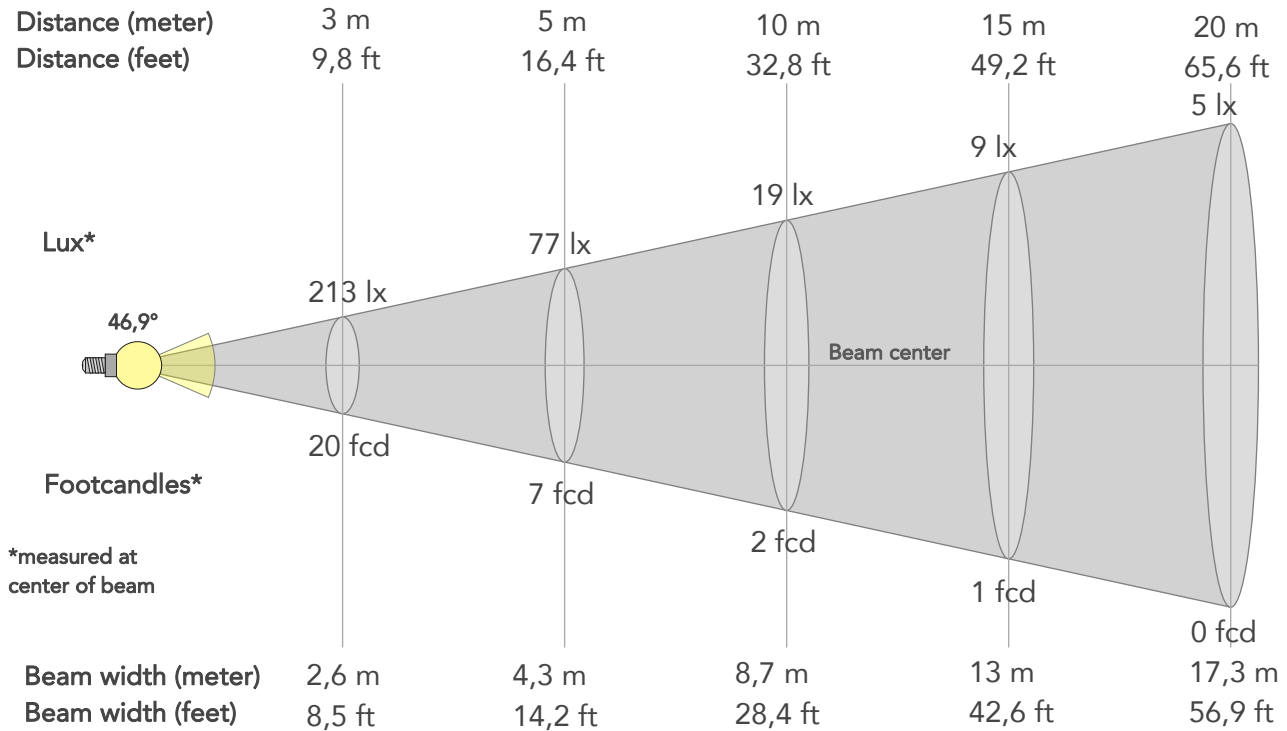
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	6%	-2%
2	88	5%	-5%
3	87	3%	-6%
4	93	0%	-4%
5	94	1%	3%
6	87	6%	7%
7	87	8%	2%
8	82	11%	-2%
9	85	7%	-6%
10	84	3%	-10%
11	89	1%	-8%
12	90	1%	-6%
13	94	1%	-4%
14	93	1%	1%
15	93	3%	2%
16	91	6%	-1%



BEAM DETAILS



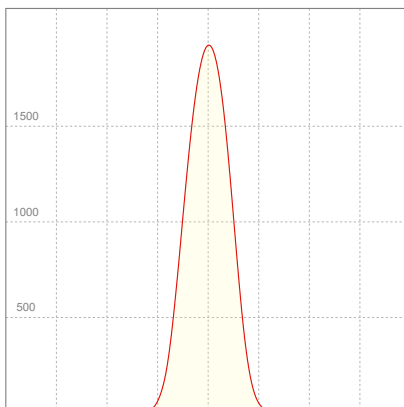
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46,9°	75,8°	91,9°	99,9%	98,1%



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	1920lx	480lx	213lx	120lx	77lx	34lx	19lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	178fcd	45fcd	20fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,3m	6,5m	8,7m	13m	17,3m	21,7m	26m	34,7m	43,3m
Beam wid.	2,9ft	5,7ft	8,5ft	11,4ft	14,2ft	21,3ft	28,4ft	42,6ft	56,9ft	71,1ft	85,3ft	113,7ft	142,1ft

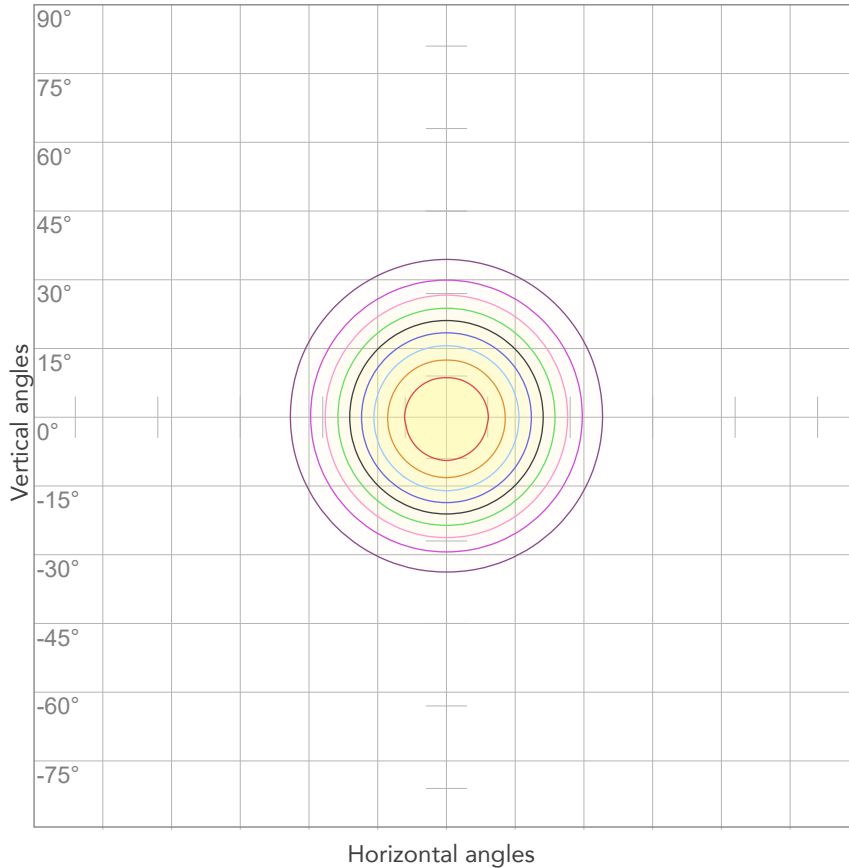
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,180A	37,4W	33lm/W

ISO CANDELA DIAGRAM



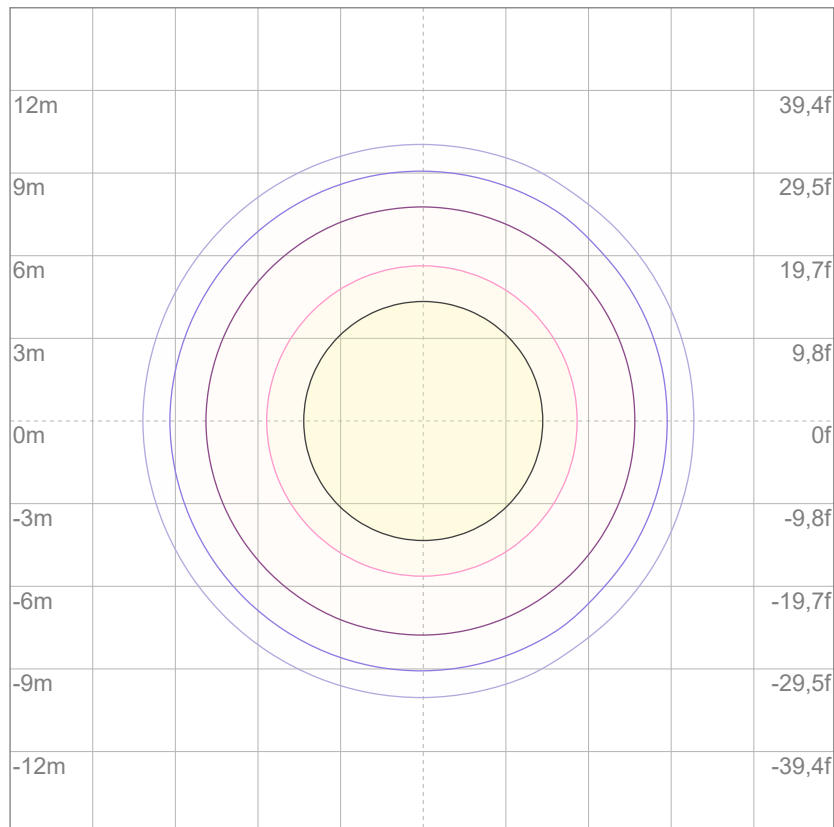
10%	192 cd
20%	384 cd
30%	576 cd
40%	768 cd
50%	960 cd
60%	1152 cd
70%	1344 cd
80%	1536 cd

Conditions:

Number of c-planes: 2

Candela at center: 1920 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,576 lx
5%	0,960 lx
10%	1,92 lx
30%	5,76 lx
50%	9,60 lx

Conditions:

Number of c-planes: 2

Lux at center: 19,2 lx

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



Total lumen output:

1202 lm

Peak candela output:

1454 cd

Light quality:

CRI: 84,3

Color temperature:

2852 K

PRODUCT NAME:
SMARTBATPLUSG2

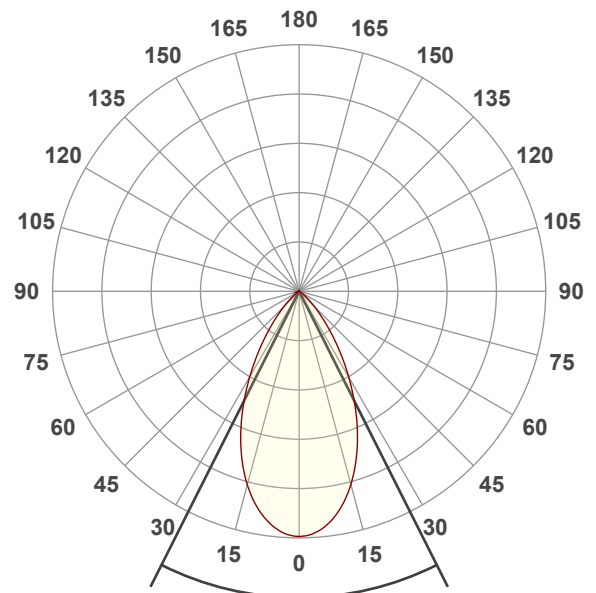
MEASUREMENT CONDITIONS:

Beam angle:
60° Filter

Target:
2800K Cal.On.

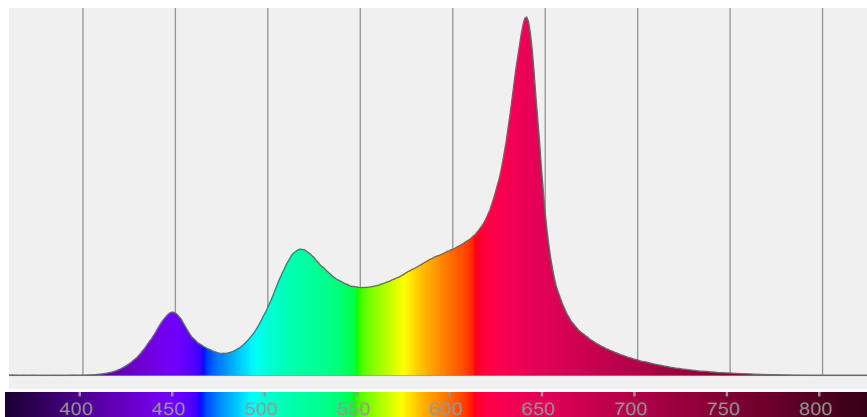
Operator:
Paolo Carvone

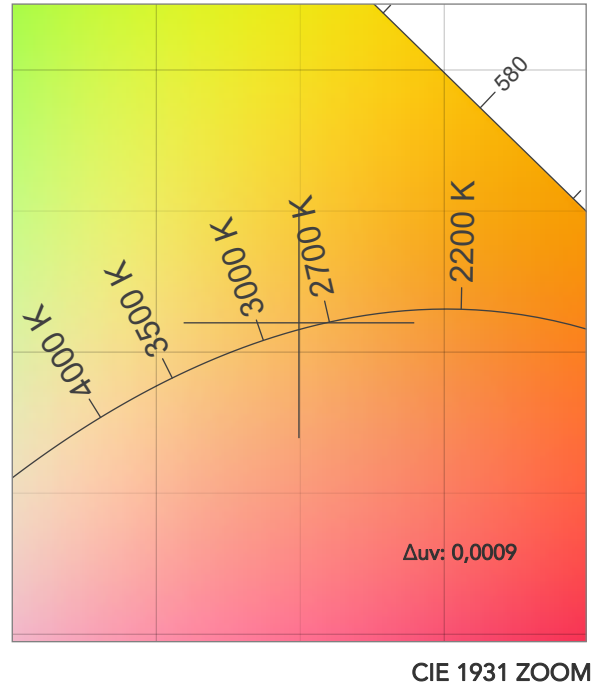
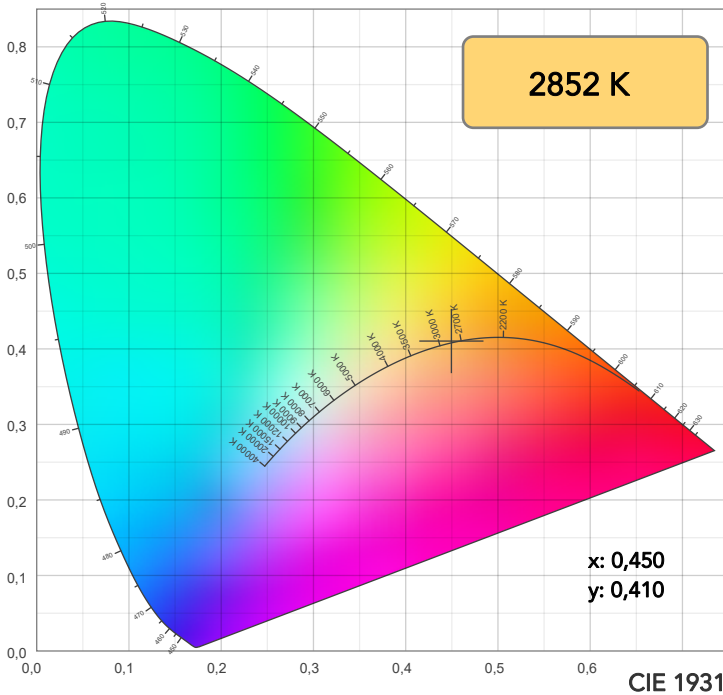
Date and time:
13/06/2022 14:26:08



Beam angle 50%: 53,4°
Field angle 10%: 88,1°
Cut off angle 2.5%: 105,7°

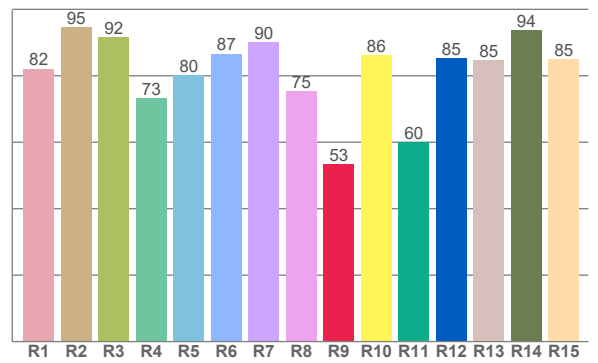
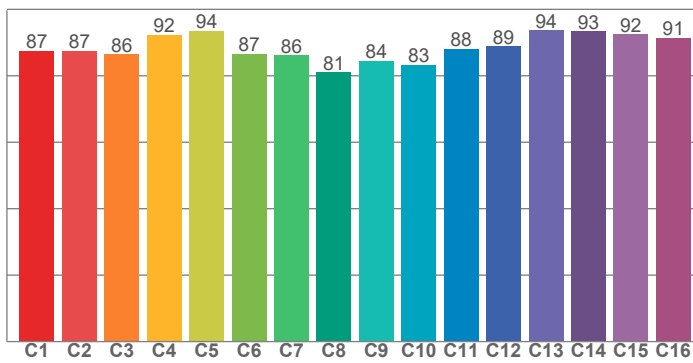
Spectra





TM30: 88,6

CRI: 84,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82,1	94,6	91,6	73,3	80,2	86,6	90,1	75,4	53,3	86,2	60,0	85,4	84,8	93,8	85,1

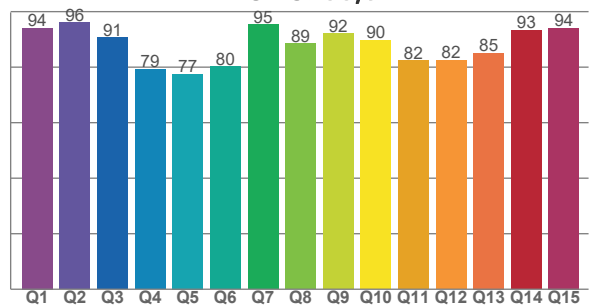
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,4	87,5	86,4	92,3	93,5	86,6	86,2	81,1	84,5	83,2	88,1	88,8	93,7	93,4	92,4	91,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,1	96,1	90,7	79,2	77,5	80,3	95,3	88,5	92,2	89,7	82,4	82,5	85,1	93,3	94,1

CQS: 86,3



COLOR PARAMETERS

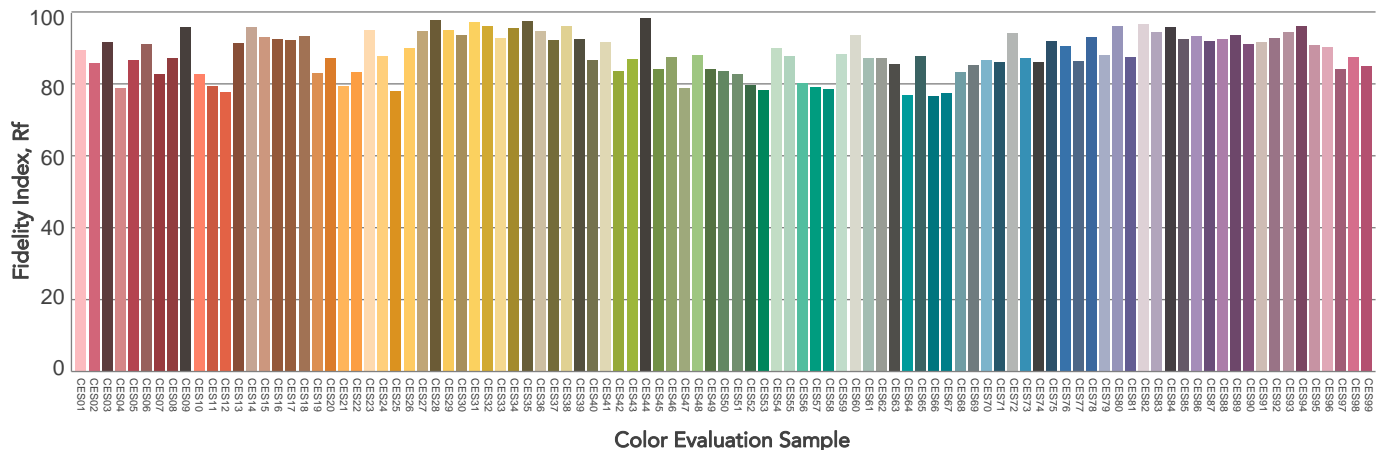
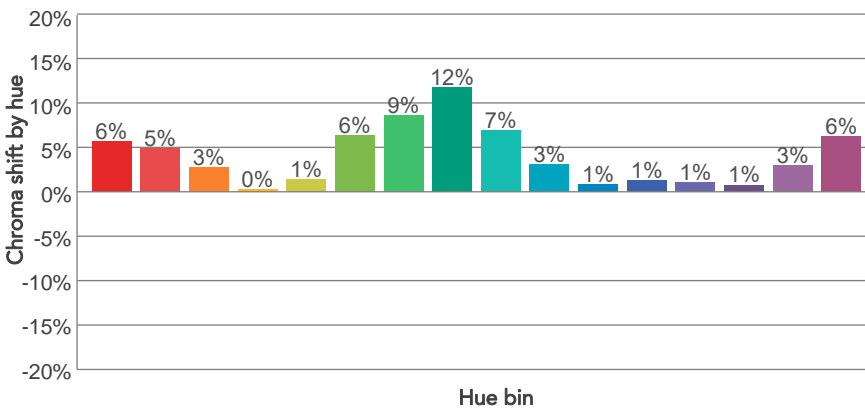
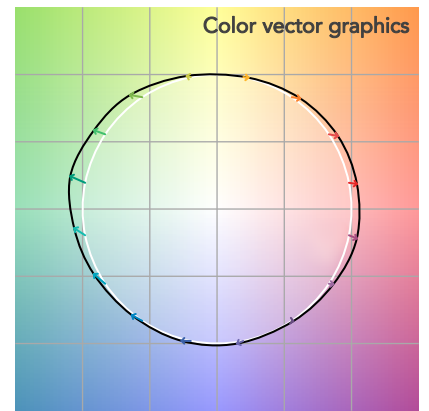
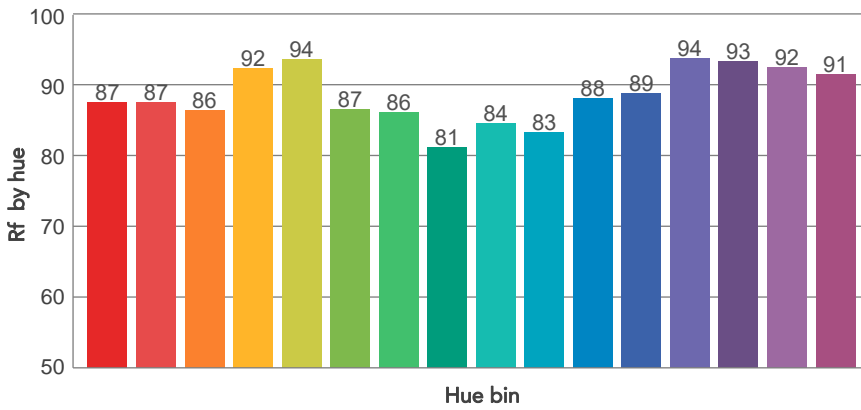
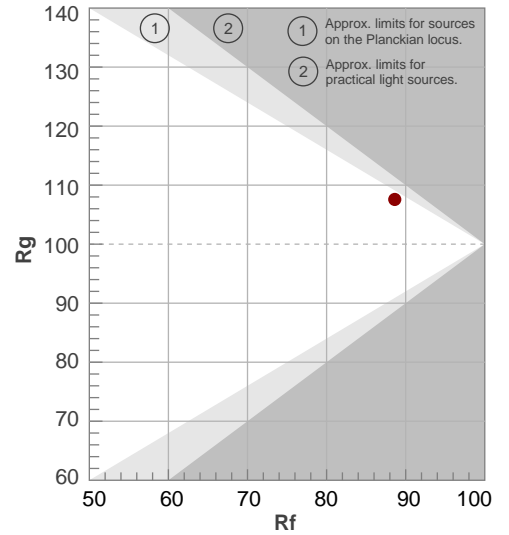
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2852 K	84,3	53,3	88,6	107,6	86,3	70	0,450	0,410	0,0009

TM30 DETAILS

Rf 88,6
Fidelity index Rf

Rg 107,6
Gammut index

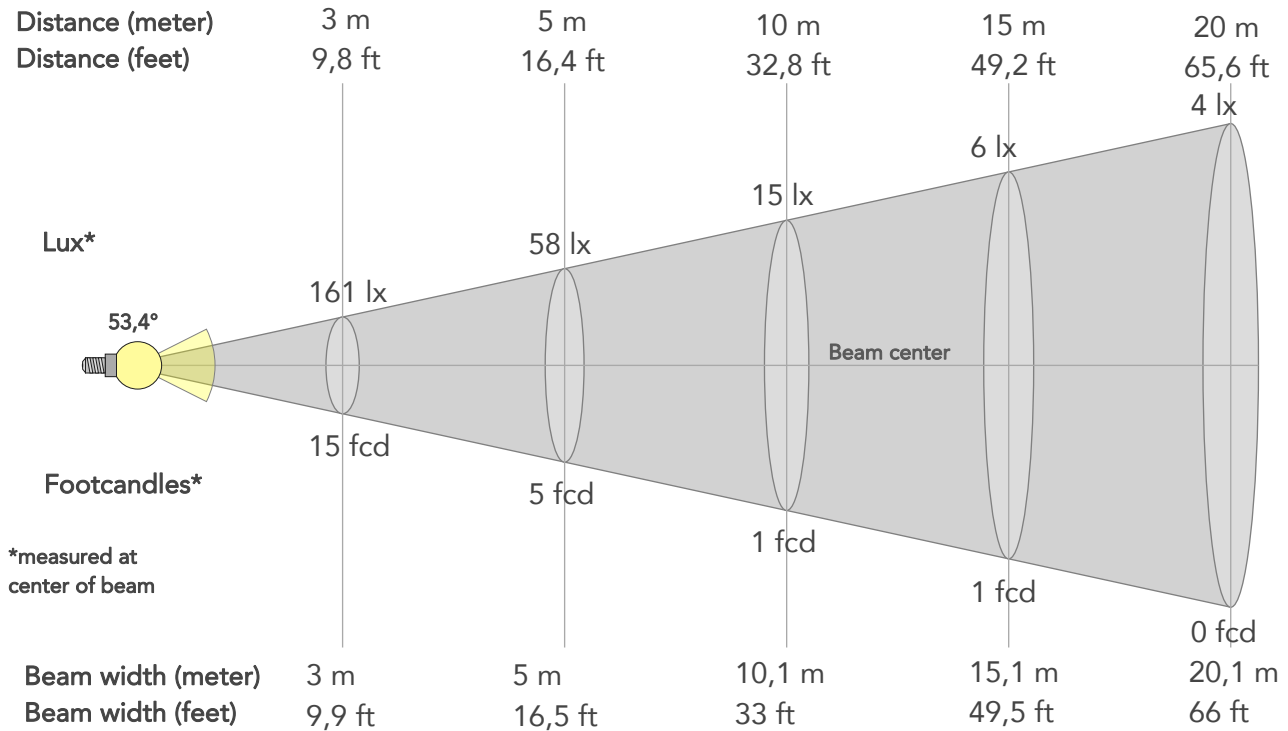
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	87	6%	-2%
2	87	5%	-5%
3	86	3%	-6%
4	92	0%	-4%
5	94	1%	3%
6	87	6%	7%
7	86	9%	2%
8	81	12%	-3%
9	84	7%	-7%
10	83	3%	-11%
11	88	1%	-9%
12	89	1%	-7%
13	94	1%	-5%
14	93	1%	1%
15	92	3%	2%
16	91	6%	-1%



BEAM DETAILS



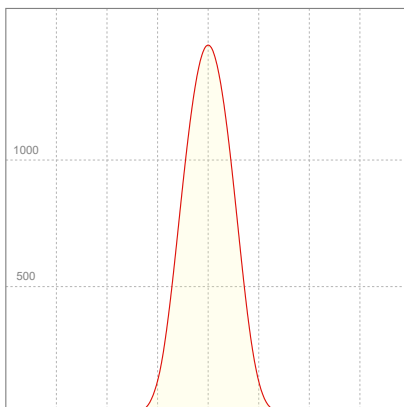
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,4°	88,1°	105,7°	99,7%	94,7%



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	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.	1m	2m	3m	4m	5m	7,5m	10,1m	15,1m	20,1m	25,2m	30,2m	40,2m	50,3m
Beam wid.	3,3ft	6,6ft	9,9ft	13,2ft	16,5ft	24,7ft	33ft	49,5ft	66ft	82,5ft	99ft	132ft	165ft

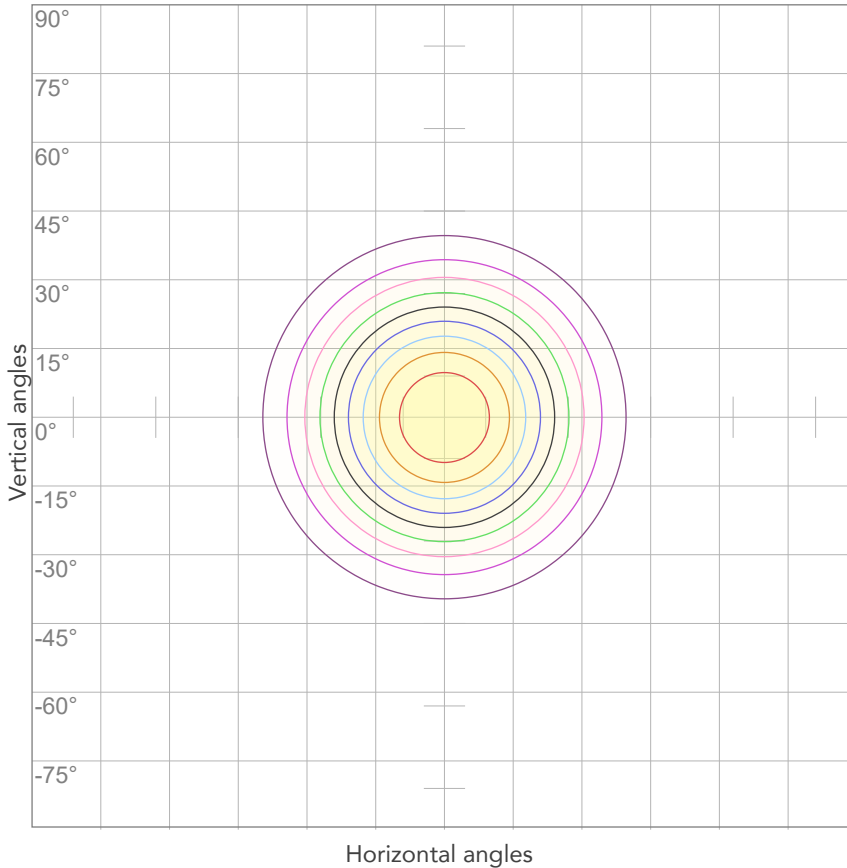
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,182A	37,7W	32lm/W

ISO CANDELA DIAGRAM



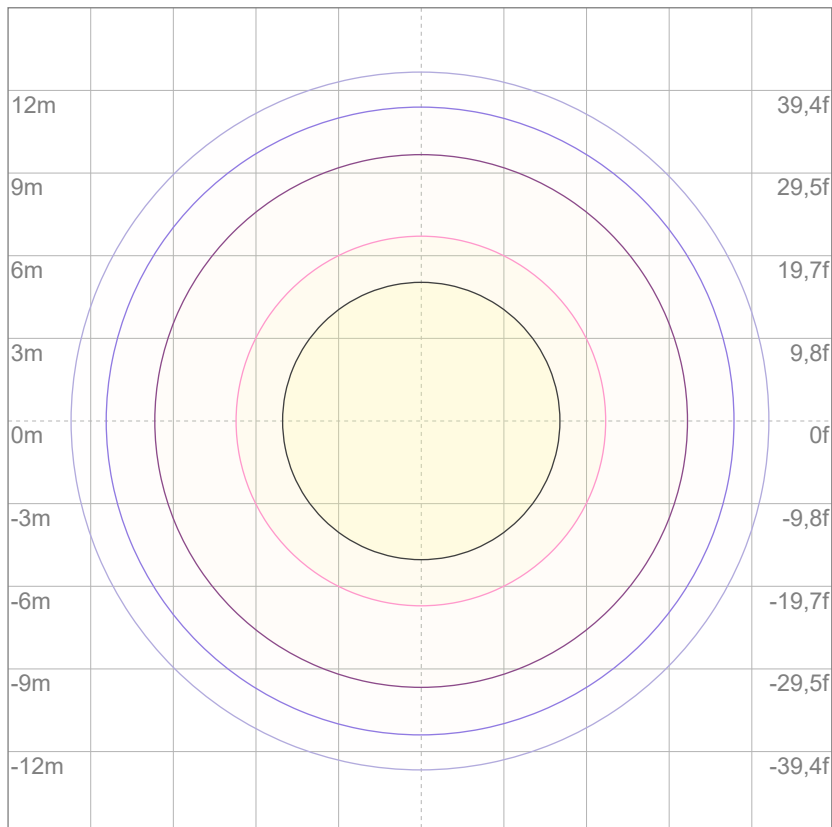
10%	145 cd
20%	290 cd
30%	436 cd
40%	581 cd
50%	726 cd
60%	871 cd
70%	1017 cd
80%	1162 cd

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:

1814 lm

Peak candela output:

3367 cd

Light quality:

CRI: 84,6

Color temperature:

2873 K

PRODUCT NAME:
SMARTBATPLUSG2

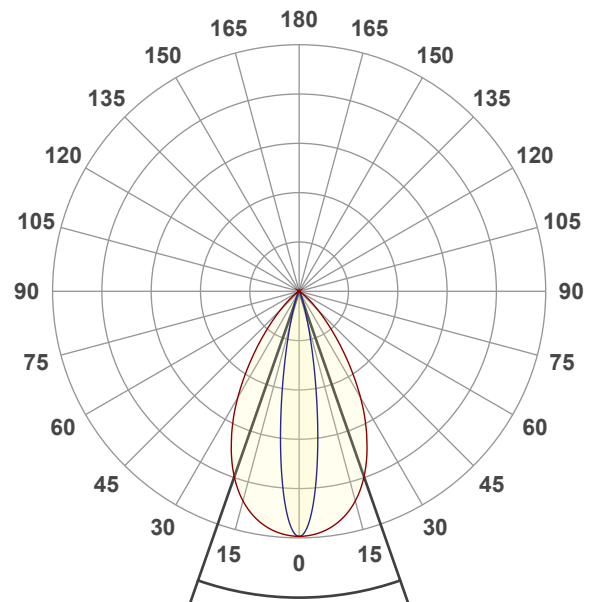
MEASUREMENT CONDITIONS:

Beam angle:
1060 Filter

Target:
2800K On Cal.On.

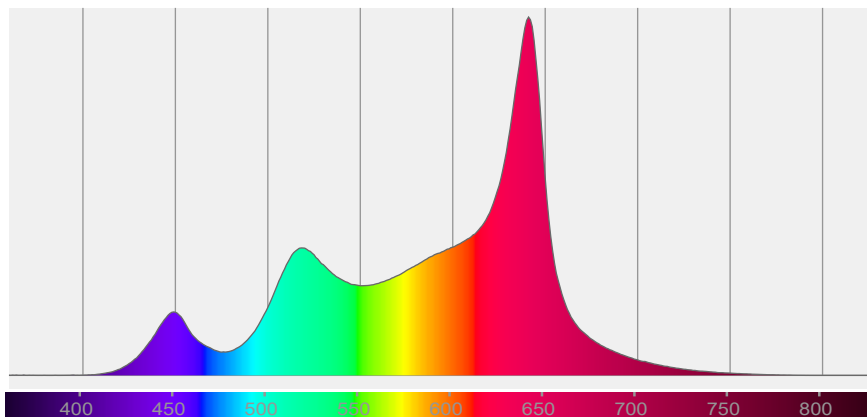
Operator:
Paolo Carvone

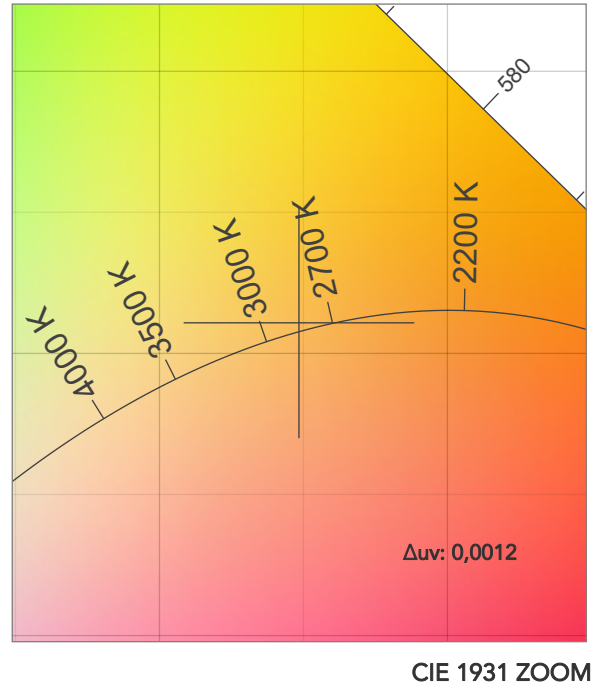
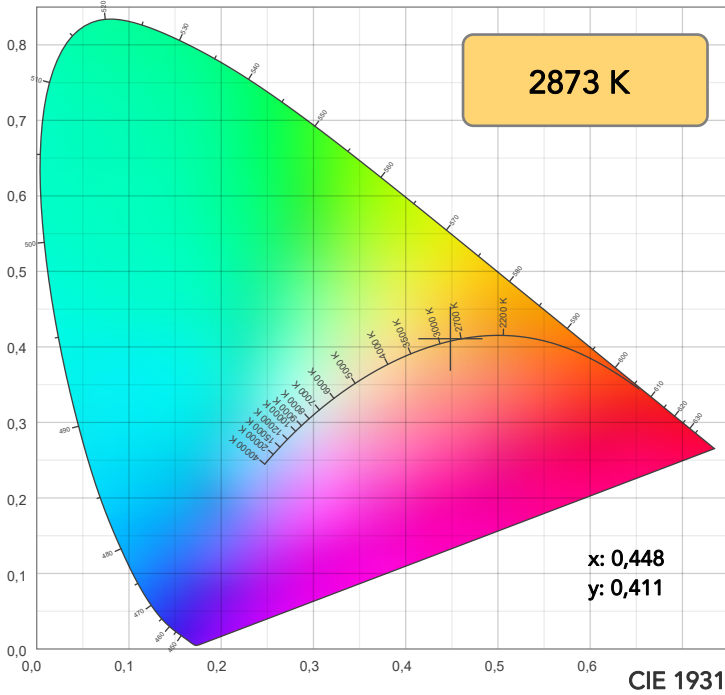
Date and time:
10/06/2022 13:34:14



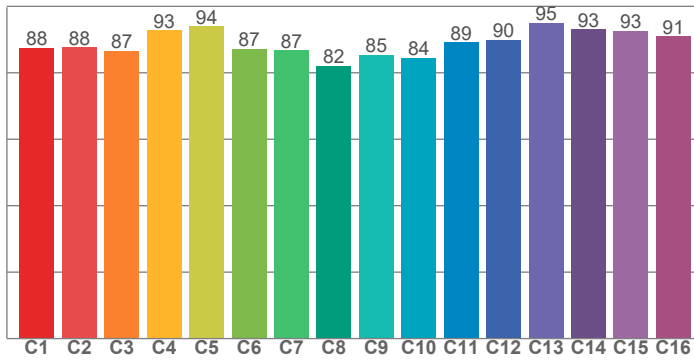
Beam angle 50%: 38,5°
Field angle 10%: 62,2°
Cut off angle 2.5%: 77,2°

Spectra

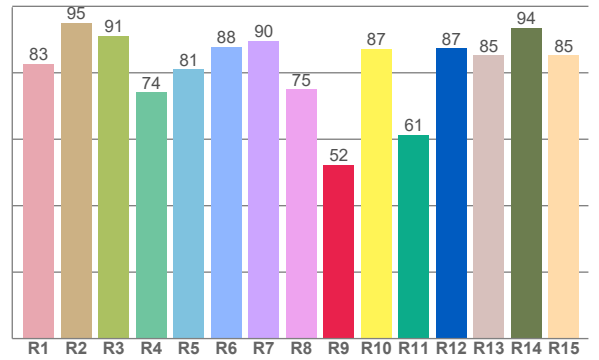




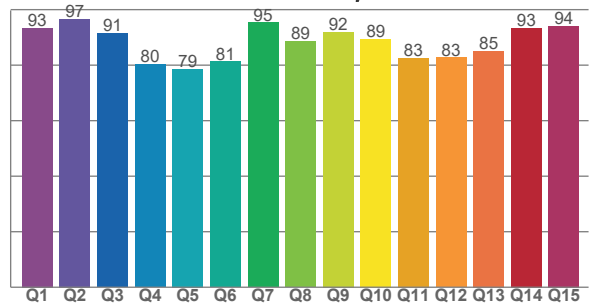
TM30: 89,1



CRI: 84,6 (R1-R8)



CQS: 86,7



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82,8	95,1	91,1	74,1	81,1	87,9	89,6	75,0	52,3	87,3	61,4	87,4	85,4	93,6	85,2

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,5	87,6	86,6	92,7	94,0	87,1	86,7	82,0	85,4	84,5	89,1	89,9	95,0	93,1	92,6	91,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,4	96,6	91,4	80,3	78,6	81,2	95,4	88,6	91,9	89,5	82,6	82,7	85,1	93,4	94,1

COLOR PARAMETERS

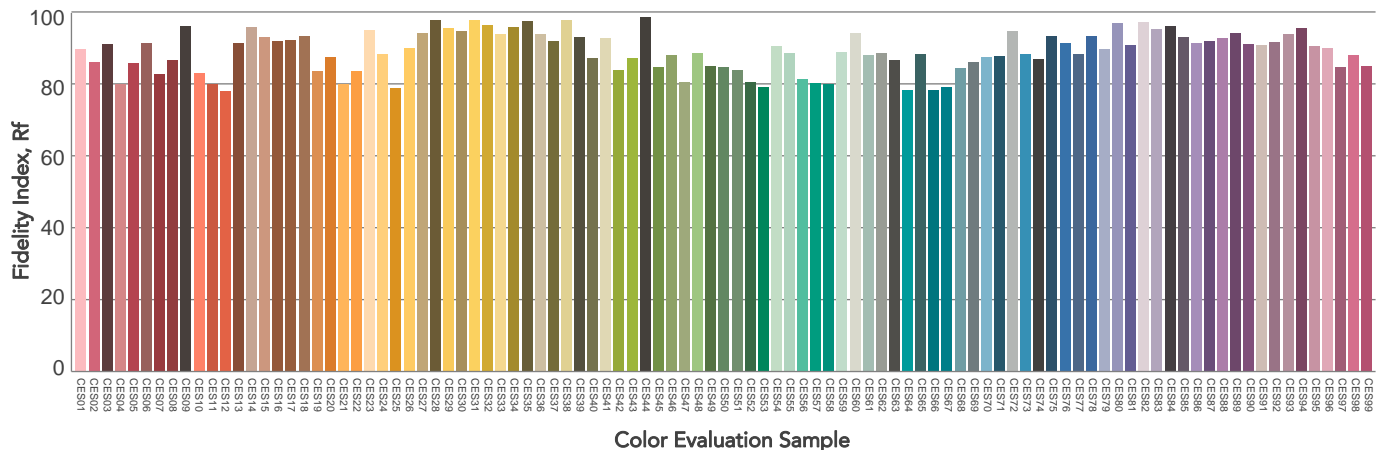
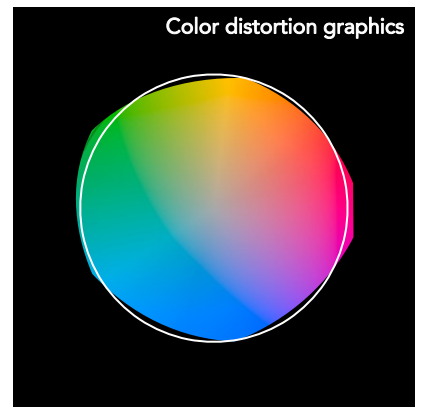
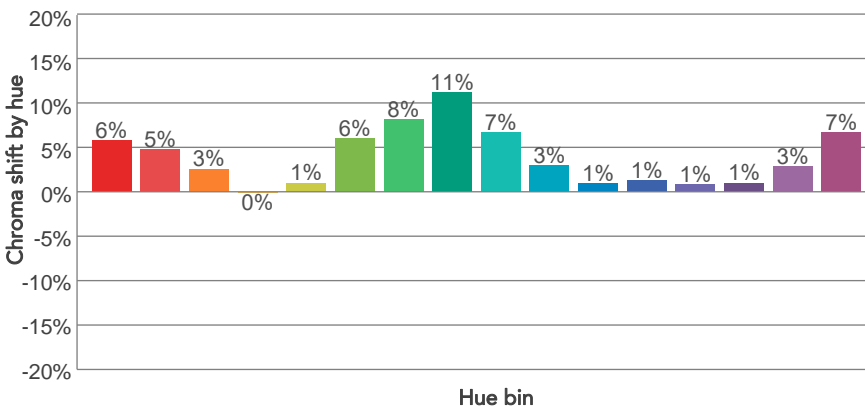
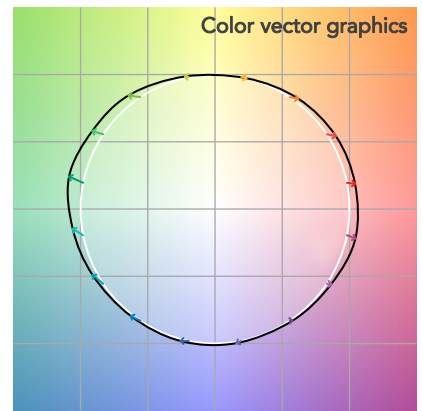
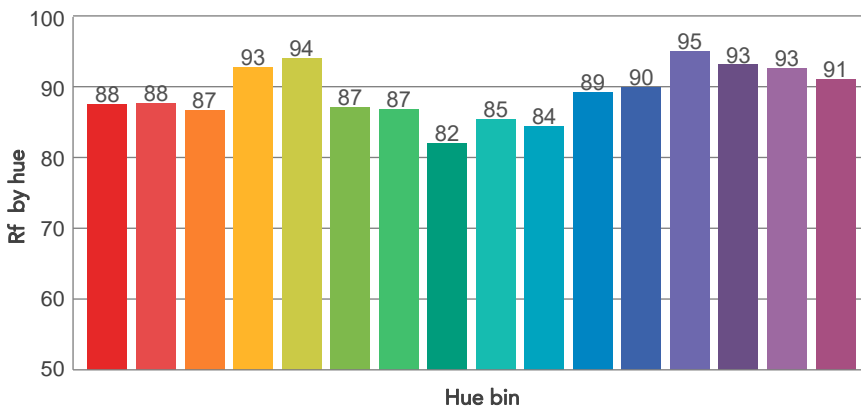
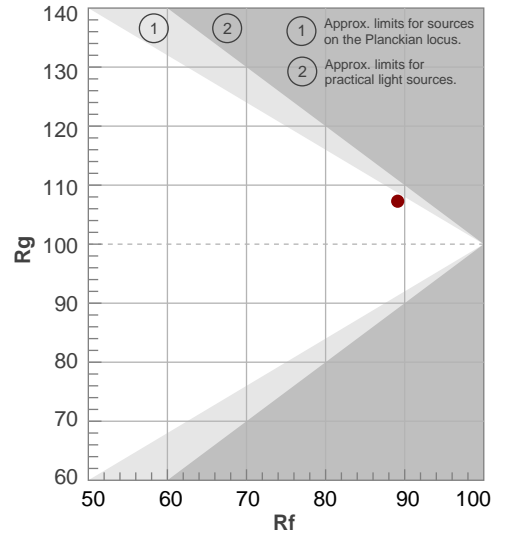
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2873 K	84,6	52,3	89,1	107,3	86,7	72	0,448	0,411	0,0012

TM30 DETAILS

Rf 89,1
Fidelity index Rf

Rg 107,3
Gammut index

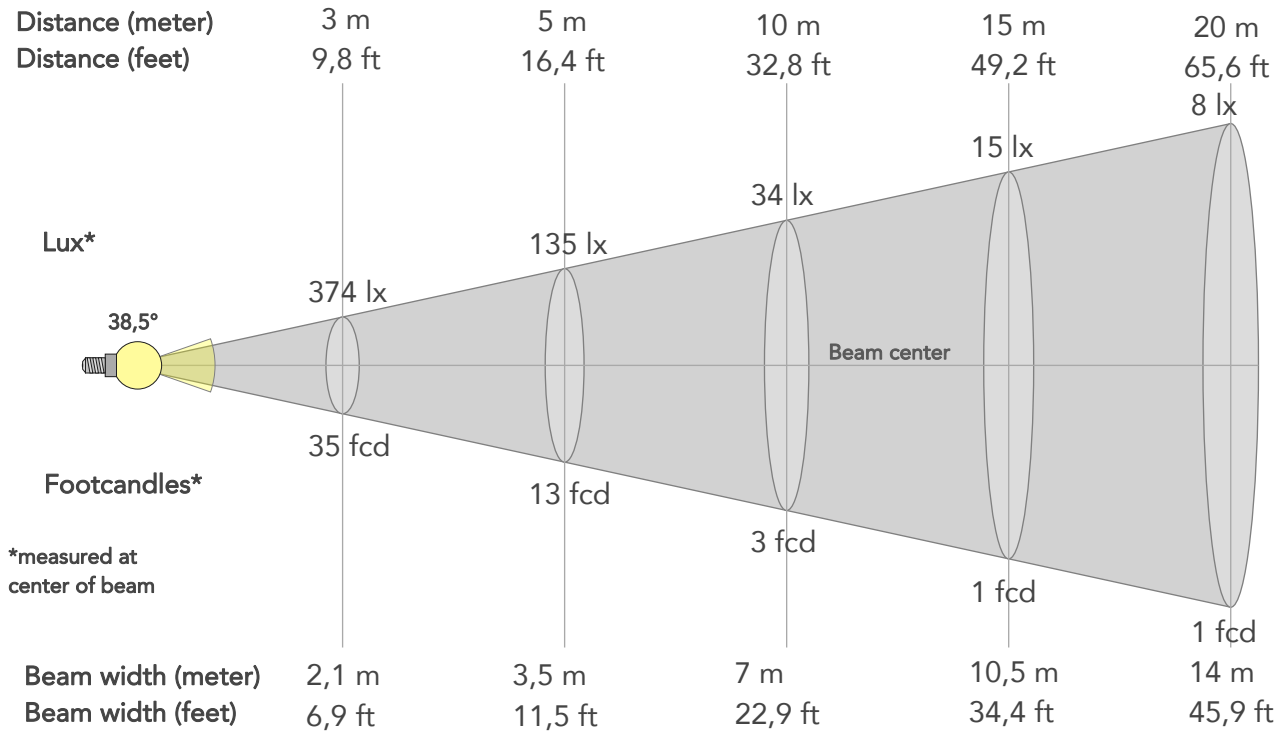
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	6%	-2%
2	88	5%	-5%
3	87	3%	-6%
4	93	0%	-4%
5	94	1%	3%
6	87	6%	6%
7	87	8%	2%
8	82	11%	-2%
9	85	7%	-6%
10	84	3%	-10%
11	89	1%	-8%
12	90	1%	-6%
13	95	1%	-4%
14	93	1%	2%
15	93	3%	2%
16	91	7%	-1%



BEAM DETAILS



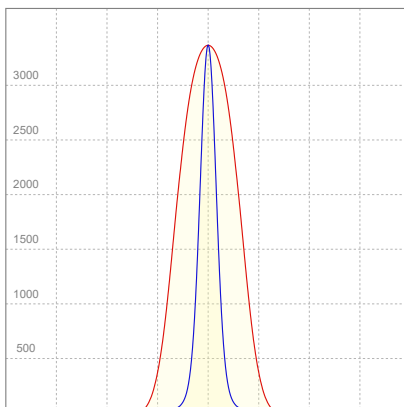
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38,5°	62,2°	77,2°	99,9%	95,2%



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	3366lx	841lx	374lx	210lx	135lx	60lx	34lx	15lx	8lx	5lx	4lx	2lx	1lx
Footcand.	313fcd	78fcd	35fcd	20fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,2m	7m	10,5m	14m	17,5m	21m	28m	35m
Beam wid.	2,3ft	4,6ft	6,9ft	9,2ft	11,5ft	17,2ft	22,9ft	34,4ft	45,9ft	57,3ft	68,8ft	91,8ft	114,7ft

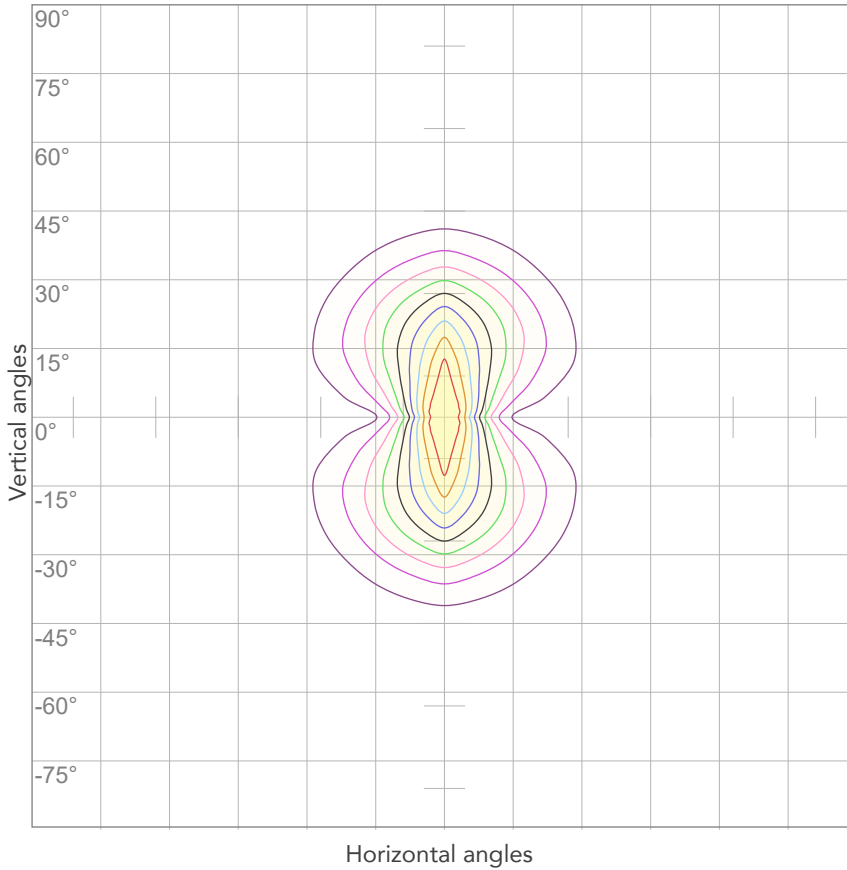
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,179A	37,2W	49lm/W

ISO CANDELA DIAGRAM



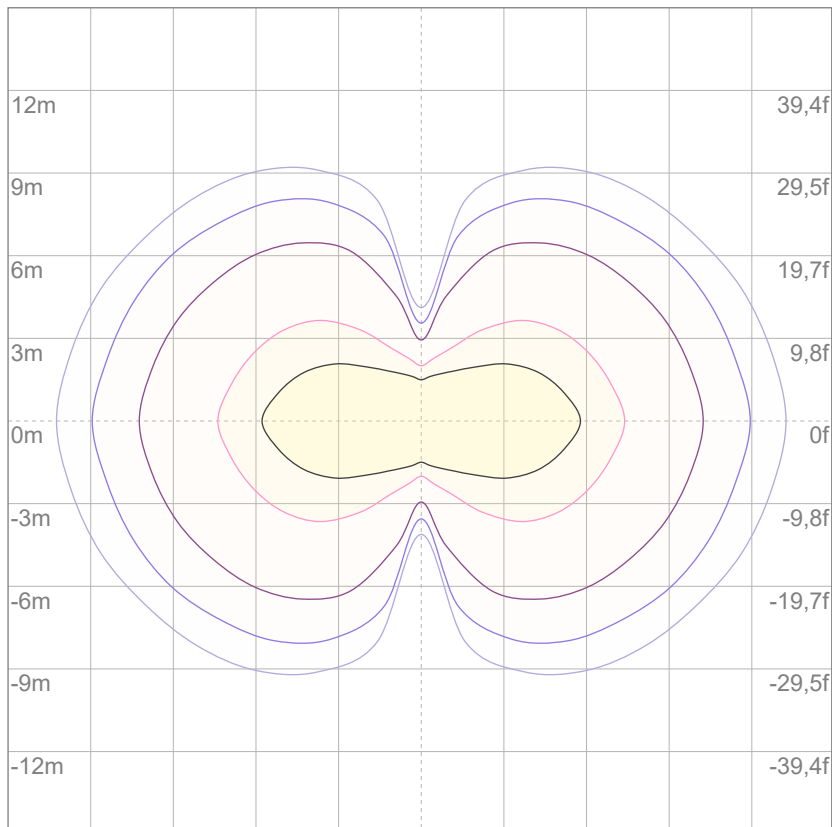
10%	337 cd
20%	673 cd
30%	1010 cd
40%	1346 cd
50%	1683 cd
60%	2020 cd
70%	2356 cd
80%	2693 cd

Conditions:

Number of c-planes: 4

Candela at center: 3366 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,01 lx
5%	1,68 lx
10%	3,37 lx
30%	10,1 lx
50%	16,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 33,7 lx

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



Total lumen output:

1054 lm

Peak candela output:

21953 cd

Light quality:

CRI: 93,9

Color temperature:

3163 K

PRODUCT NAME:
SMARTBATPLUSG2

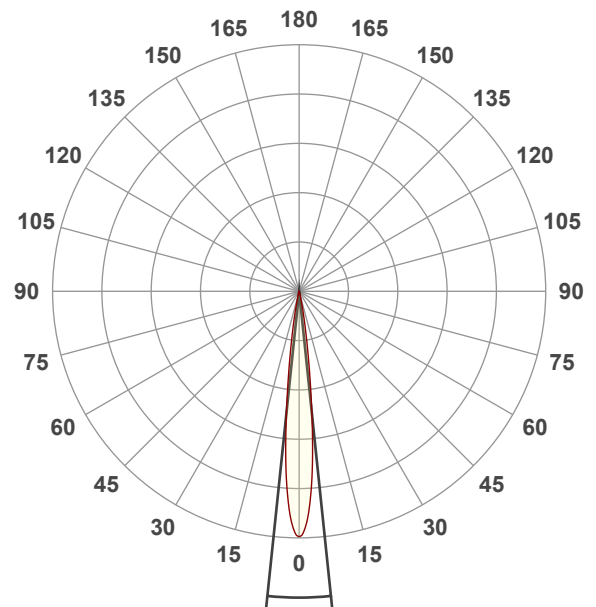
MEASUREMENT CONDITIONS:

Beam angle:
Native Optic (Without Filter)

Target:
3200K Cal.On.

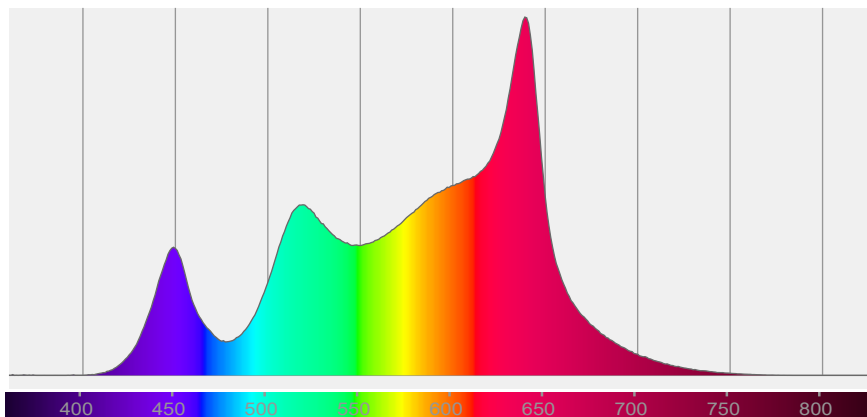
Operator:
Paolo Carvone

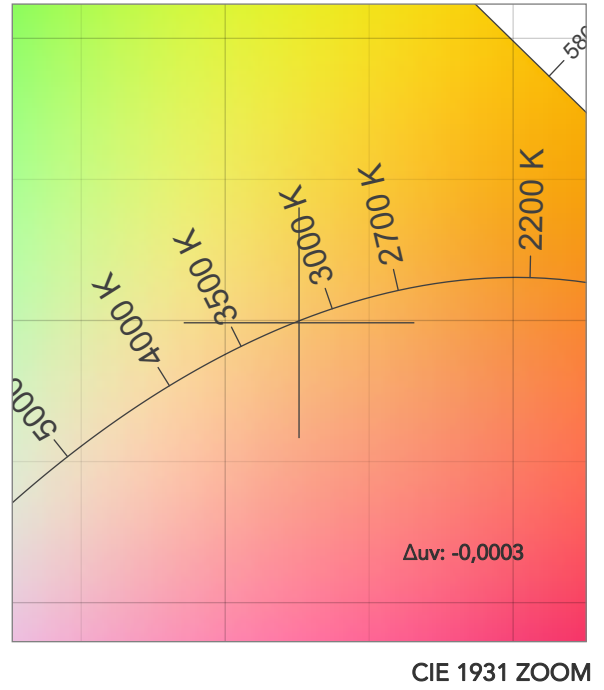
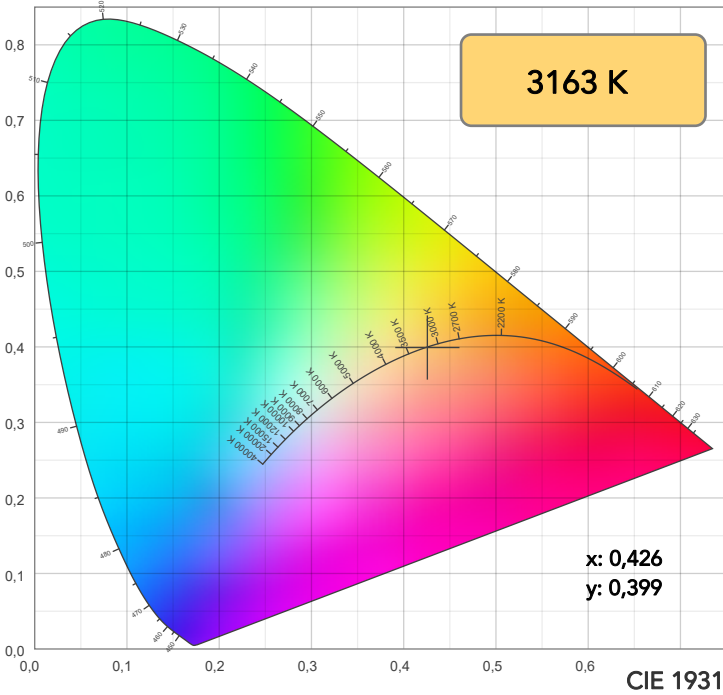
Date and time:
10/06/2022 12:57:26



Beam angle 50%: 11,9°
Field angle 10%: 21,1°
Cut off angle 2.5%: 27,1°

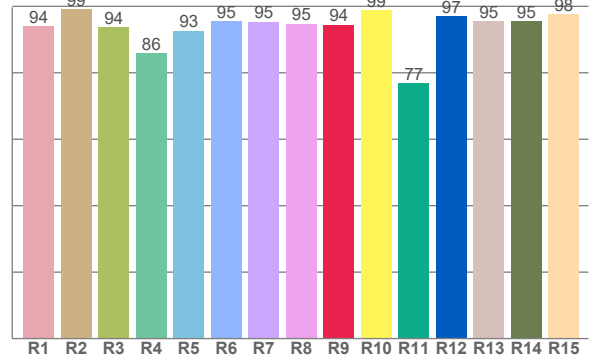
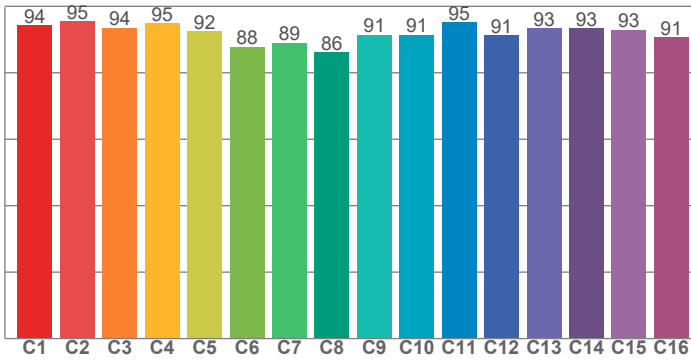
Spectra





TM30: 92,6

CRI: 93,9 (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
94,0	99,2	93,8	85,9	92,7	95,5	95,4	94,8	94,5	98,8	76,9	96,9	95,4	95,4	97,7

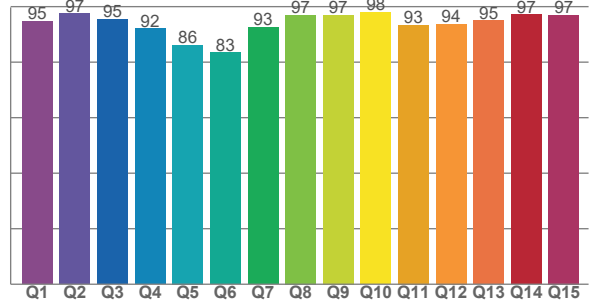
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	95,5	93,6	94,9	92,5	87,7	89,0	86,2	91,4	91,4	95,2	91,3	93,4	93,4	92,9	90,7

CQS Q values

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

CQS: 92,5



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3163 K	93,9	94,5	92,6	106,2	92,5	81	0,426	0,399	-0,0003

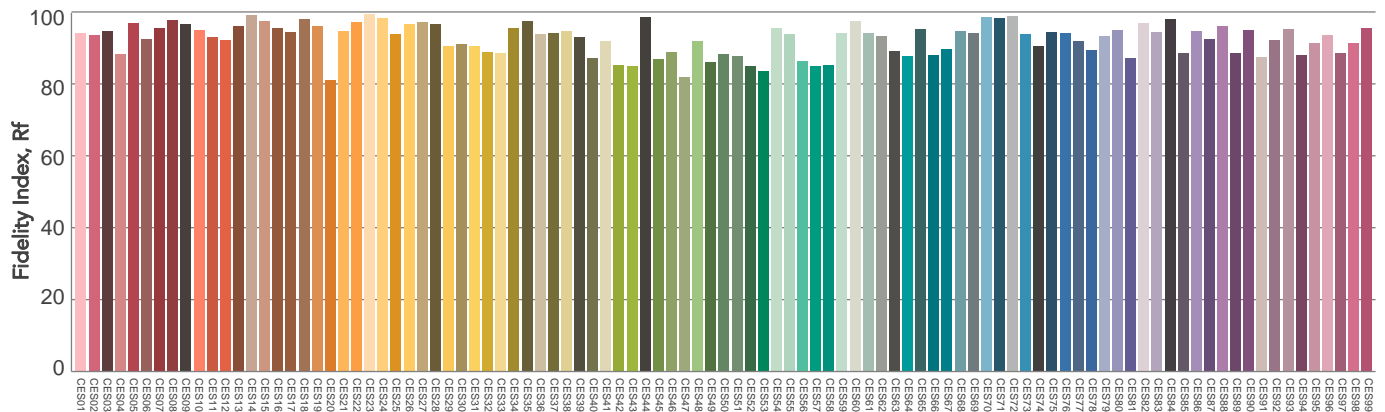
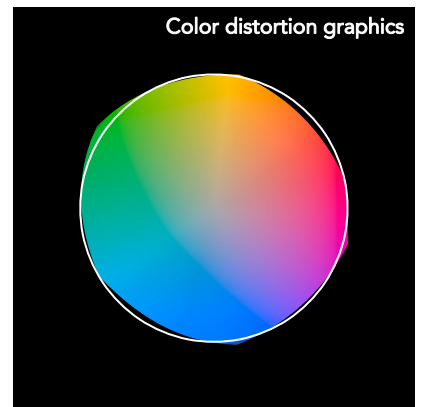
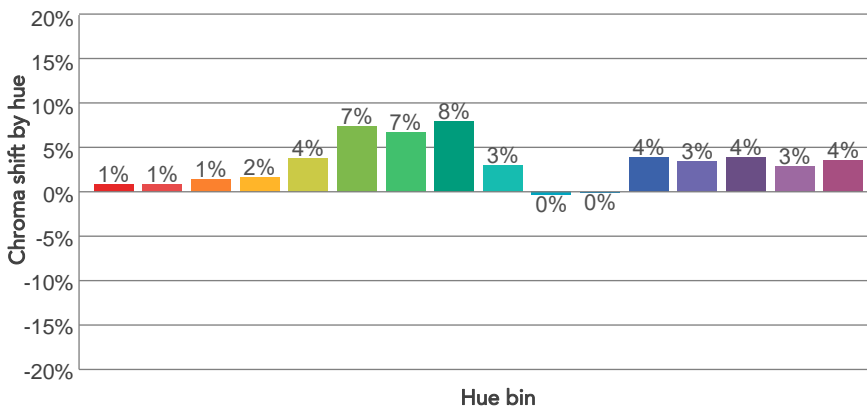
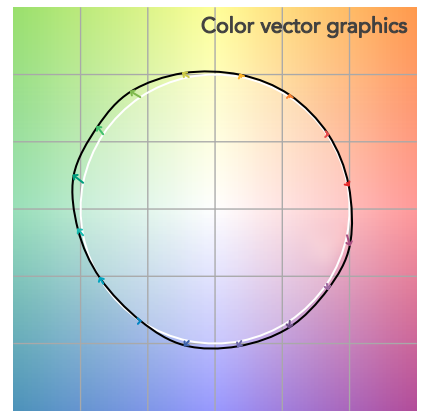
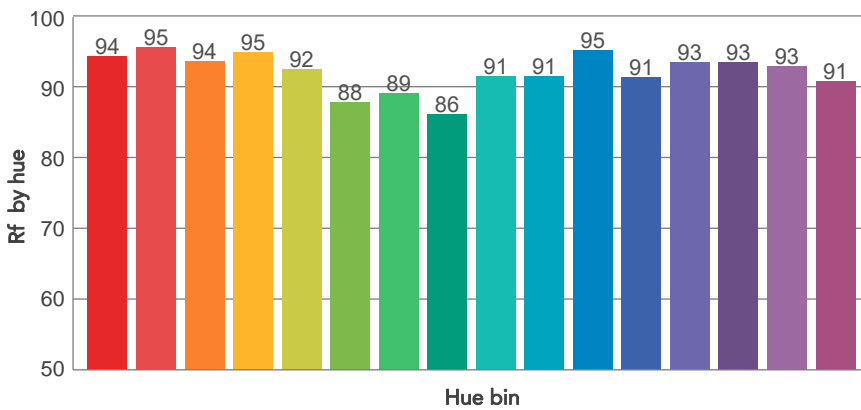
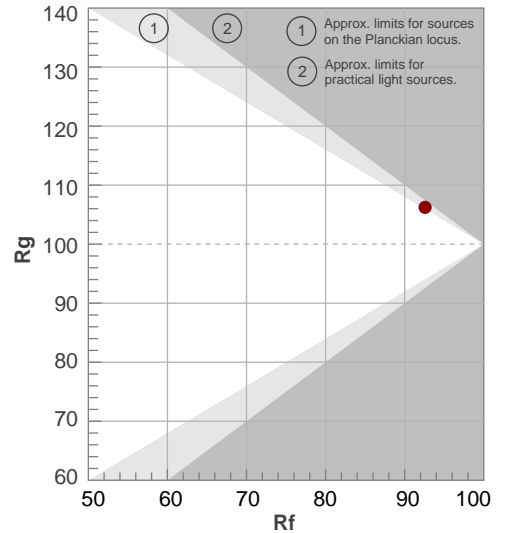
TM30 DETAILS



Rf 92,6
Fidelity index Rf

Rg 106,2
Gammut index

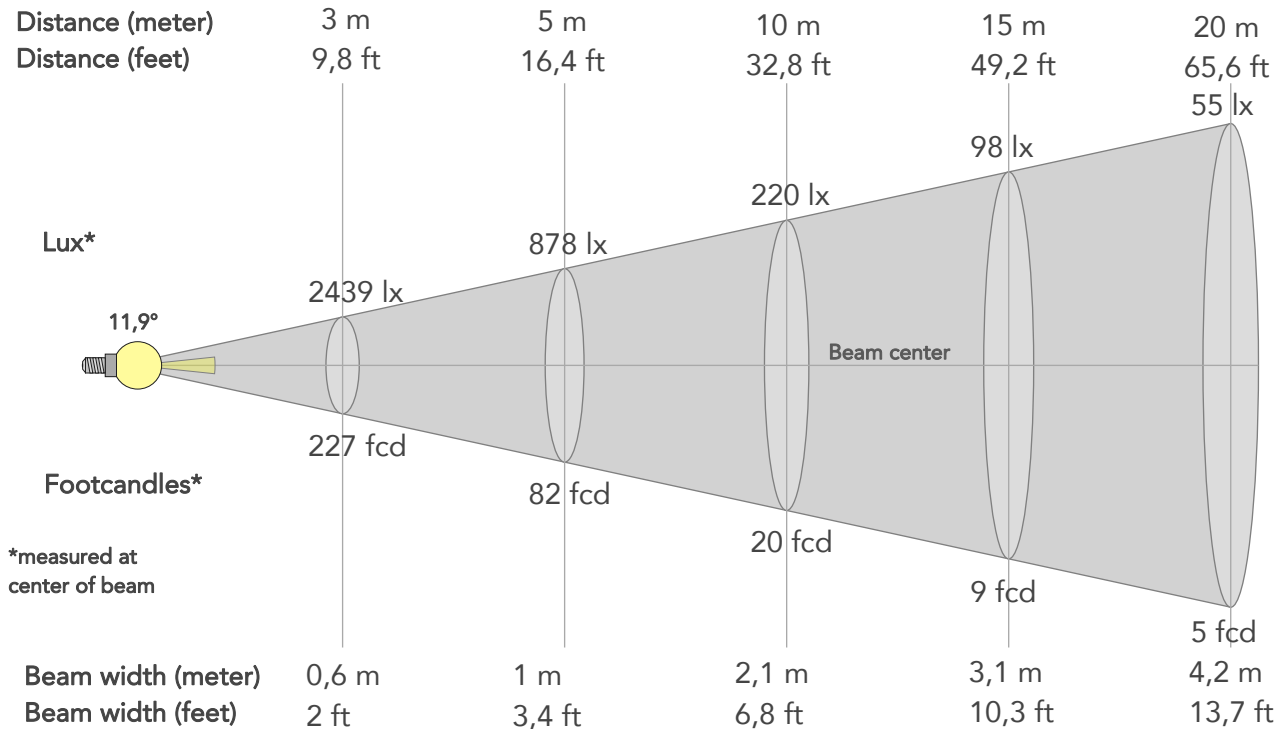
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-2%
2	95	1%	-1%
3	94	1%	1%
4	95	2%	1%
5	92	4%	4%
6	88	7%	4%
7	89	7%	-2%
8	86	8%	-4%
9	91	3%	-5%
10	91	0%	-5%
11	95	0%	0%
12	91	4%	-2%
13	93	3%	-3%
14	93	4%	-3%
15	93	3%	-3%
16	91	4%	-7%



BEAM DETAILS



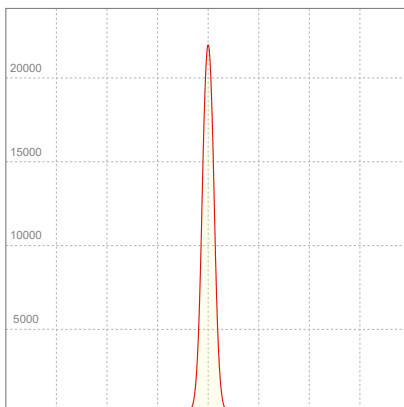
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,9°	21,1°	27,1°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	21953lx	5488lx	2439lx	1372lx	878lx	390lx	220lx	98lx	55lx	35lx	24lx	14lx	9lx
Footcand.	2040fcd	510fcd	227fcd	127fcd	82fcd	36fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,6m	2,1m	3,1m	4,2m	5,2m	6,3m	8,3m	10,4m
Beam wid.	0,7ft	1,4ft	2ft	2,7ft	3,4ft	5,1ft	6,8ft	10,3ft	13,7ft	17,1ft	20,5ft	27,4ft	34,2ft

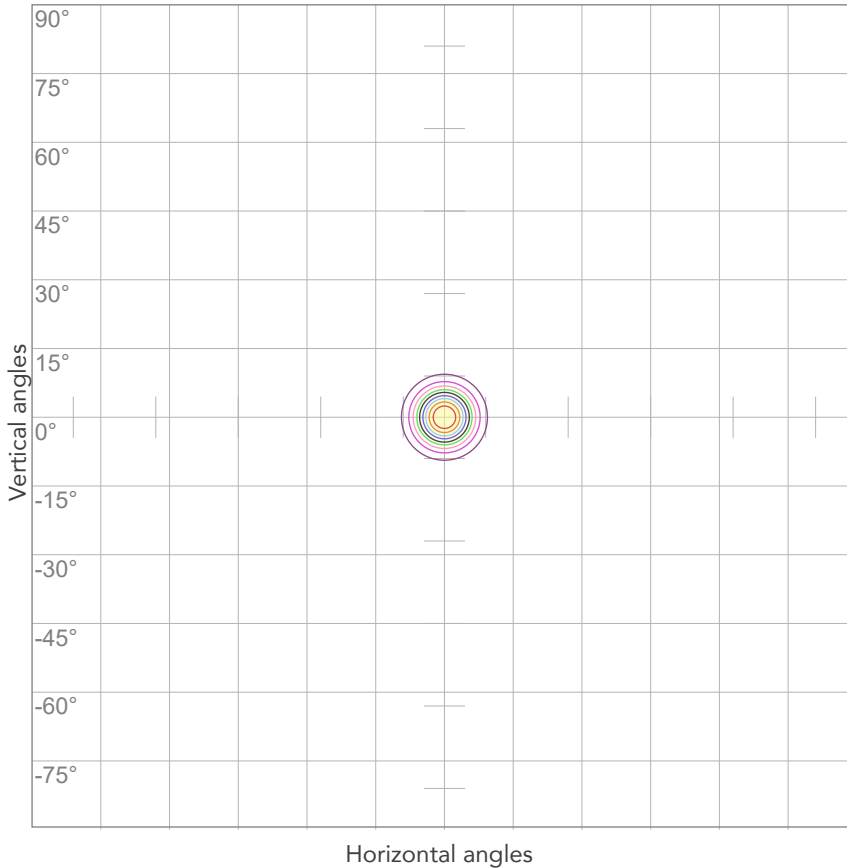
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,170A	34,7W	30lm/W

ISO CANDELA DIAGRAM



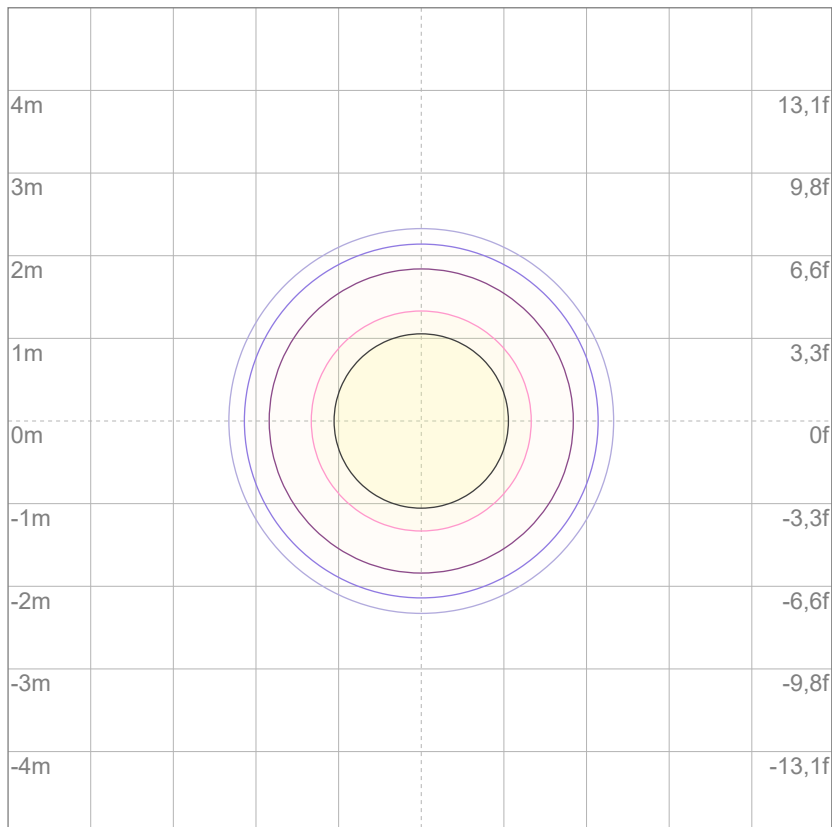
10%	2195 cd
20%	4391 cd
30%	6586 cd
40%	8781 cd
50%	10977 cd
60%	13172 cd
70%	15367 cd
80%	17563 cd

Conditions:

Number of c-planes: 2

Candela at center: 21953 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.

Mounting height: 10 meters (33 feet)



Total lumen output:

1081 lm

Peak candela output:

4707 cd

Light quality:

CRI: 94,8

Color temperature:

3251 K

PRODUCT NAME:
SMARTBATPLUSG2

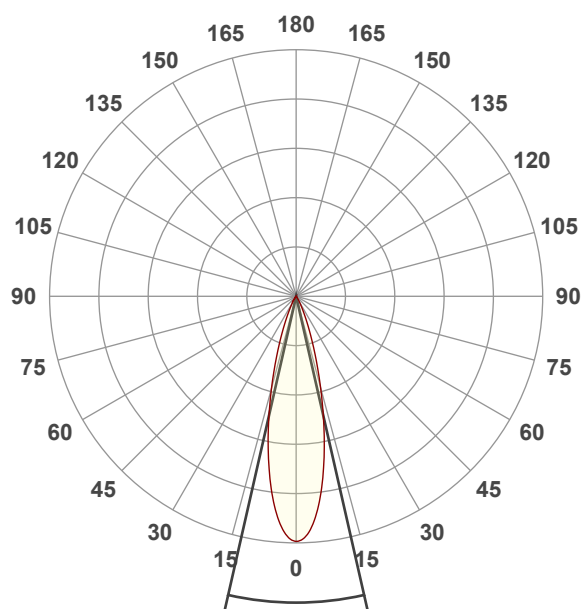
MEASUREMENT CONDITIONS:

Beam angle:
20° Filter

Target:
3200K Cal.On.

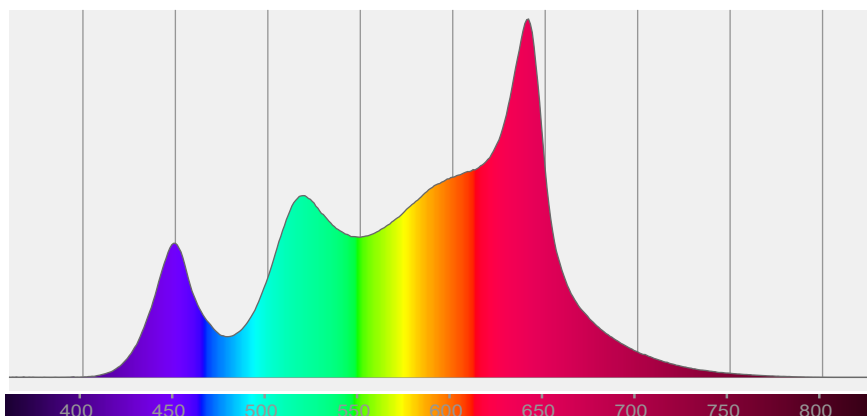
Operator:
Paolo Carvone

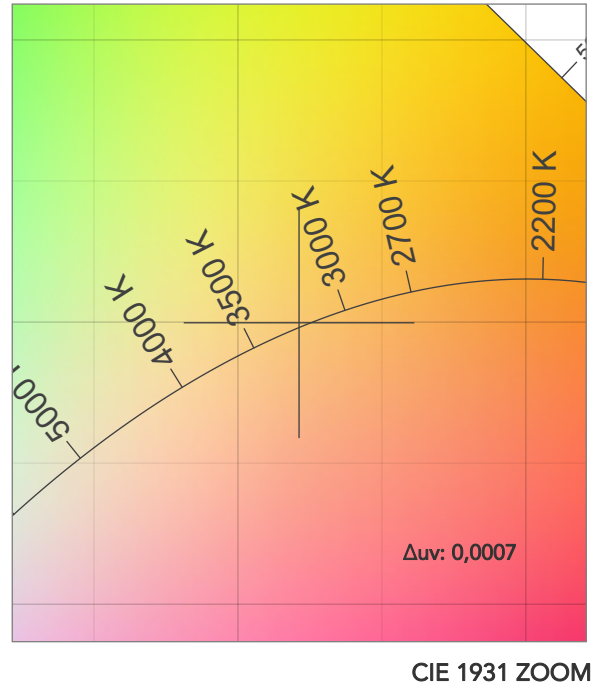
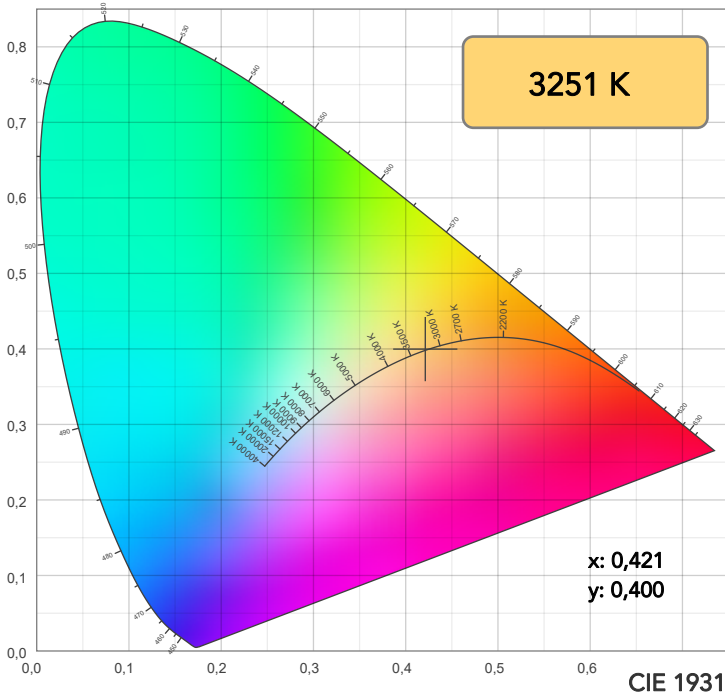
Date and time:
13/06/2022 15:12:09



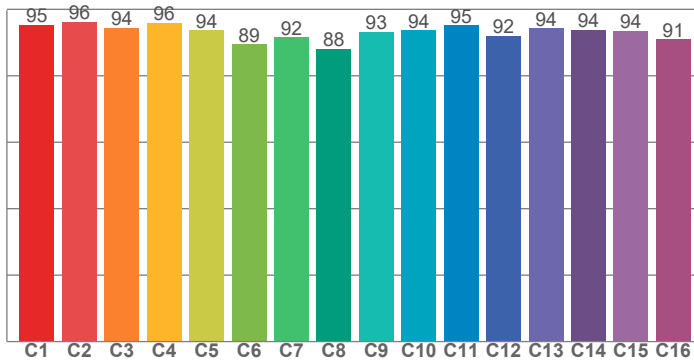
Beam angle 50%: 25,6°
Field angle 10%: 47,1°
Cut off angle 2.5%: 61,3°

Spectra

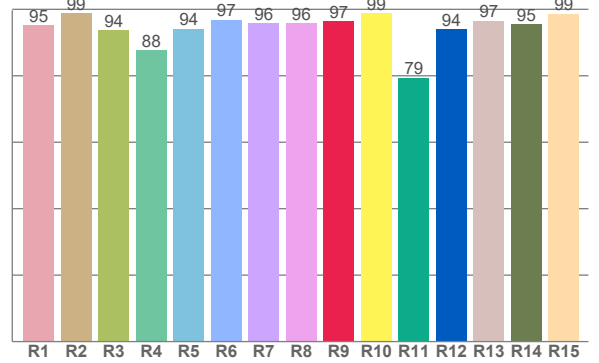




TM30: 93,6



CRI: 94,8 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,2	98,9	93,7	87,7	94,2	96,9	95,9	95,7	96,5	98,8	79,4	93,9	96,5	95,5	98,7

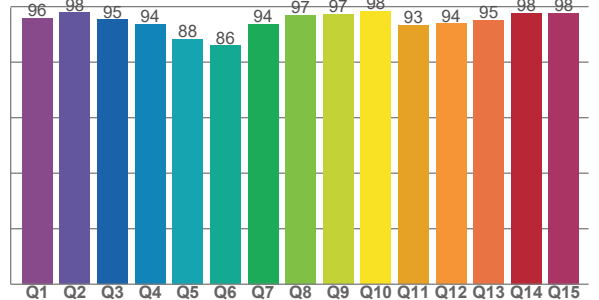
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,4	96,2	94,4	96,0	93,7	89,5	91,6	88,1	93,1	93,7	95,2	92,0	94,2	93,8	93,6	91,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,9	97,8	95,4	93,7	88,4	85,9	93,7	97,0	97,2	98,3	93,3	93,9	95,1	97,7	97,7

CQS: 93,5



COLOR PARAMETERS

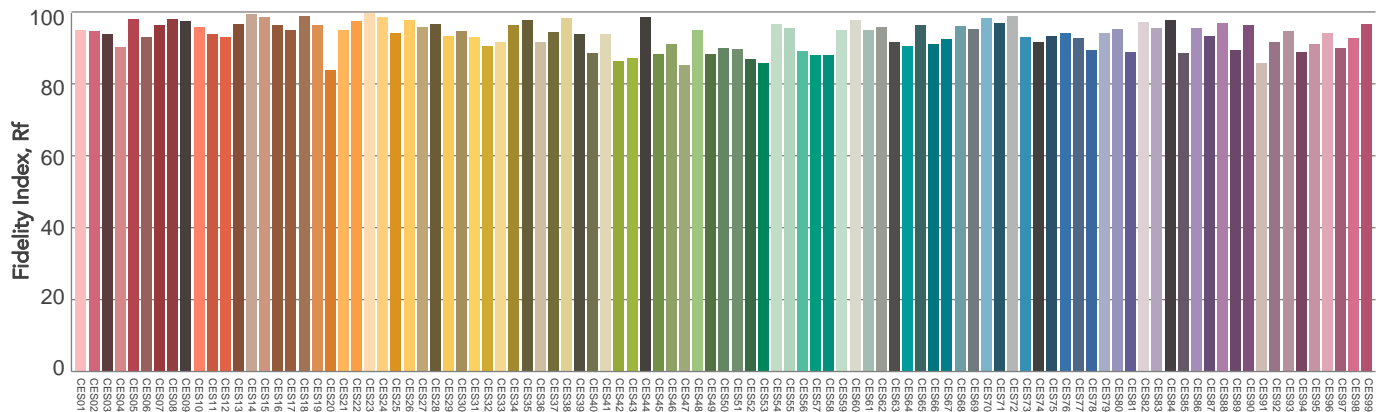
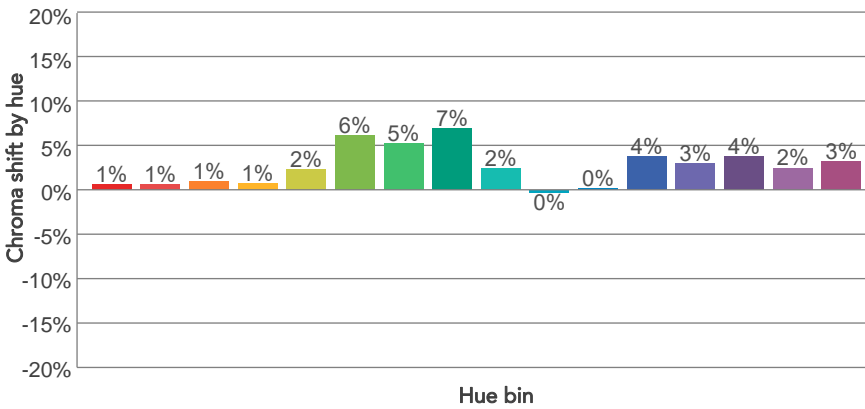
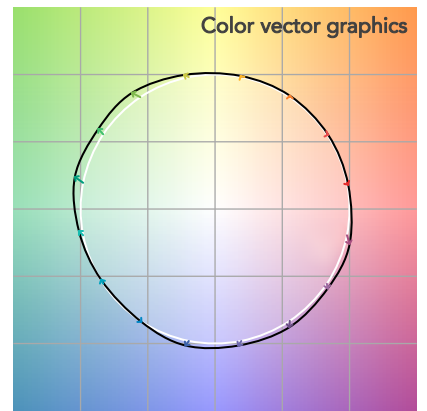
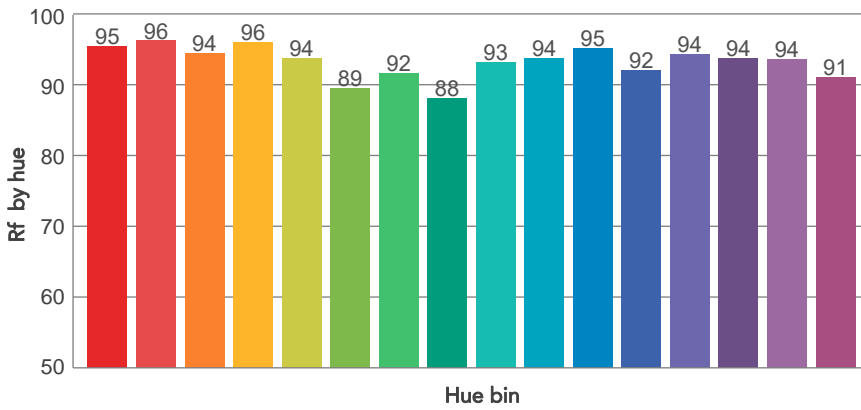
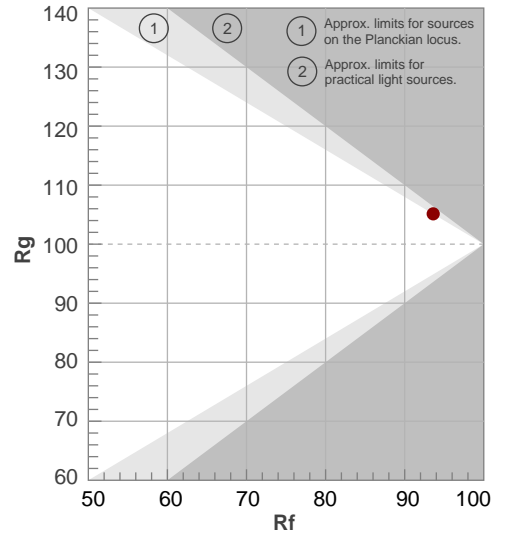
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3251 K	94,8	96,5	93,6	105,1	93,5	86	0,421	0,400	0,0007

TM30 DETAILS

Rf 93,6
Fidelity index Rf

Rg 105,1
Gammut index

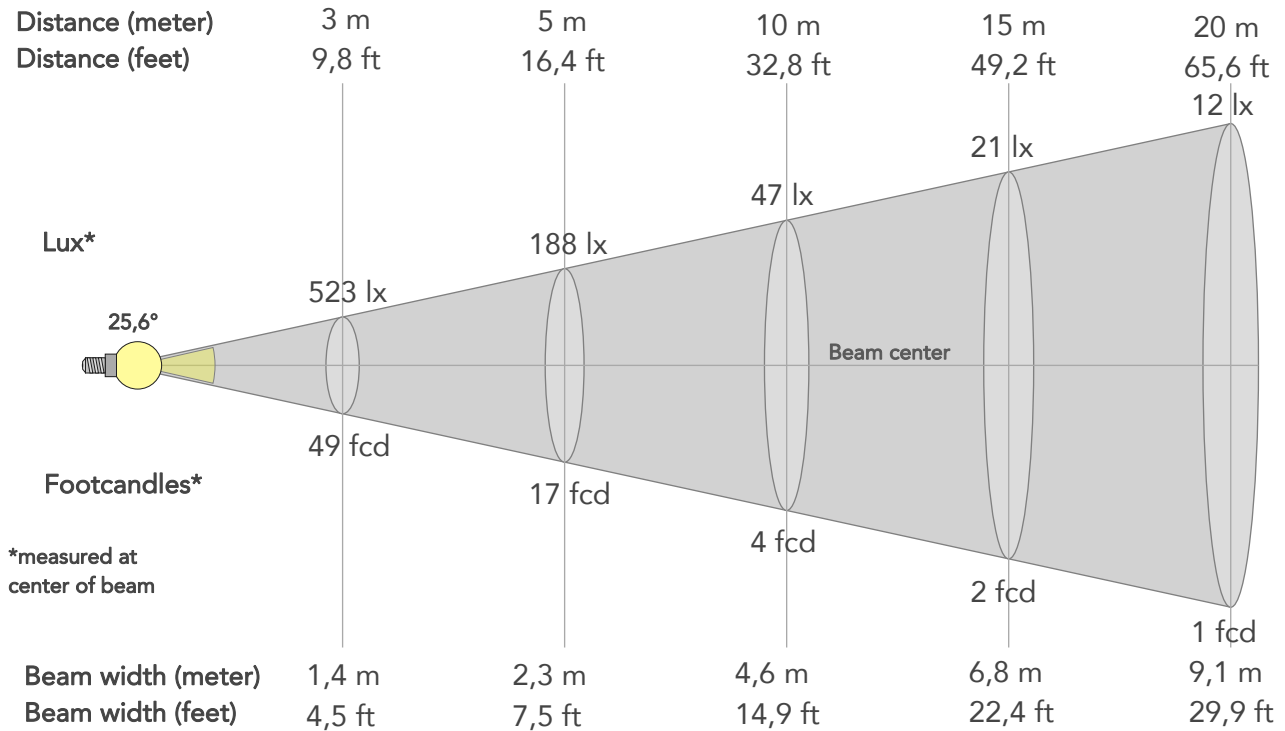
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	94	1%	1%
4	96	1%	1%
5	94	2%	3%
6	89	6%	3%
7	92	5%	-1%
8	88	7%	-3%
9	93	2%	-4%
10	94	0%	-3%
11	95	0%	1%
12	92	4%	-2%
13	94	3%	-3%
14	94	4%	-3%
15	94	2%	-3%
16	91	3%	-6%



BEAM DETAILS



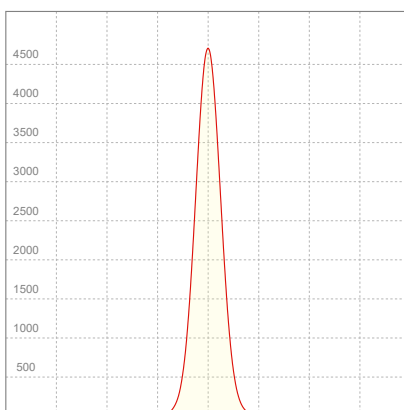
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,6°	47,1°	61,3°	100,0%	99,9%



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	4704lx	1176lx	523lx	294lx	188lx	84lx	47lx	21lx	12lx	8lx	5lx	3lx	2lx
Footcand.	437fcd	109fcd	49fcd	27fcd	17fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,6m	6,8m	9,1m	11,4m	13,7m	18,2m	22,8m
Beam wid.	1,5ft	3ft	4,5ft	6ft	7,5ft	11,2ft	14,9ft	22,4ft	29,9ft	37,3ft	44,8ft	59,7ft	74,6ft

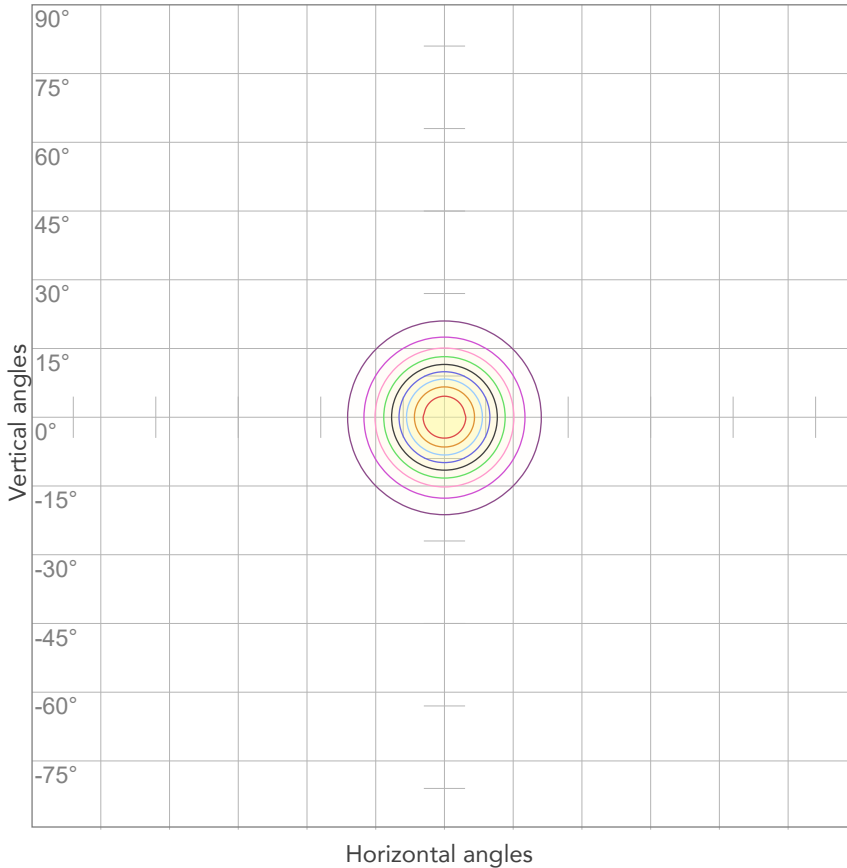
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,168A	34,2W	32lm/W

ISO CANDELA DIAGRAM



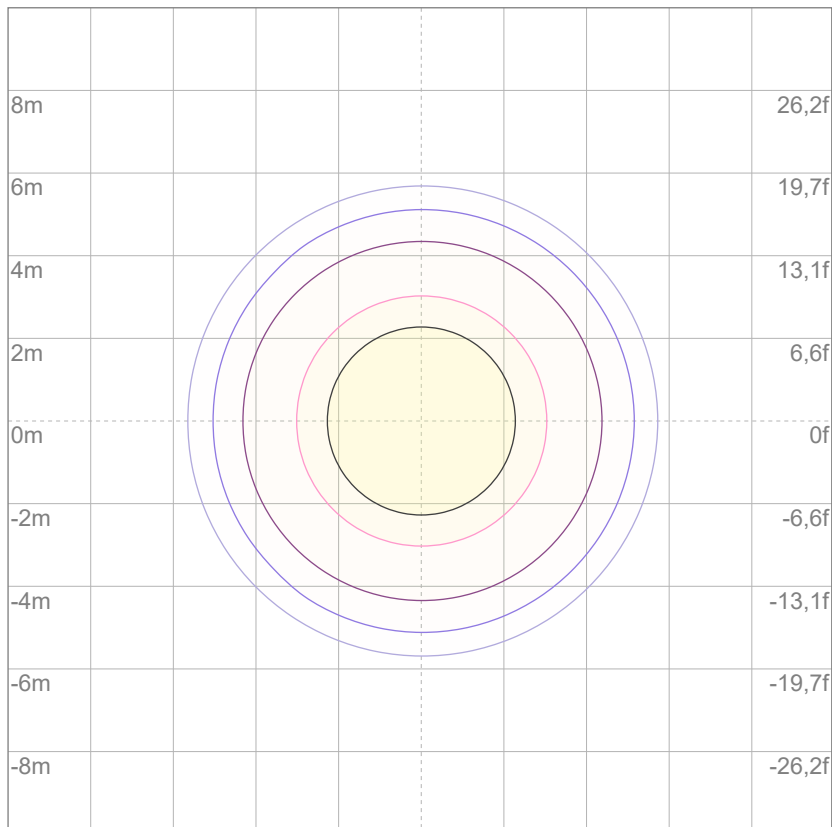
10%	470 cd
20%	941 cd
30%	1411 cd
40%	1882 cd
50%	2352 cd
60%	2822 cd
70%	3293 cd
80%	3763 cd

Conditions:

Number of c-planes: 2

Candela at center: 4704 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,41 lx
5%	2,35 lx
10%	4,70 lx
30%	14,1 lx
50%	23,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 47,0 lx

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



Total lumen output:

1123 lm

Peak candela output:

1755 cd

Light quality:

CRI: 94,6

Color temperature:

3249 K

PRODUCT NAME:
SMARTBATPLUSG2

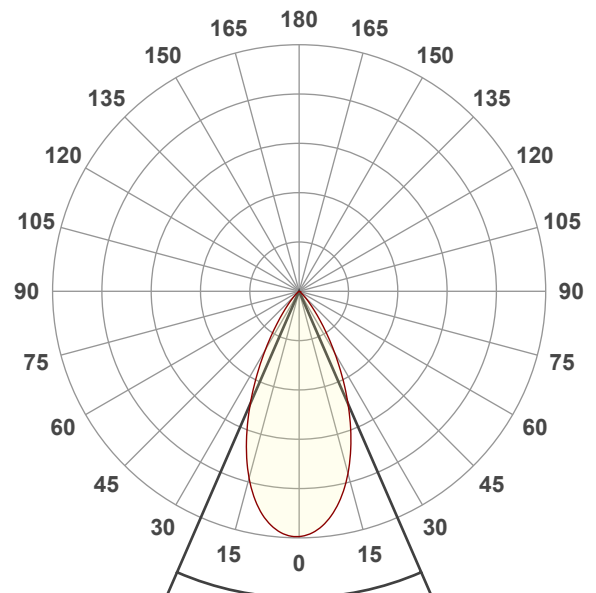
MEASUREMENT CONDITIONS:

Beam angle:
40° Filter

Target:
3200K Cal.On.

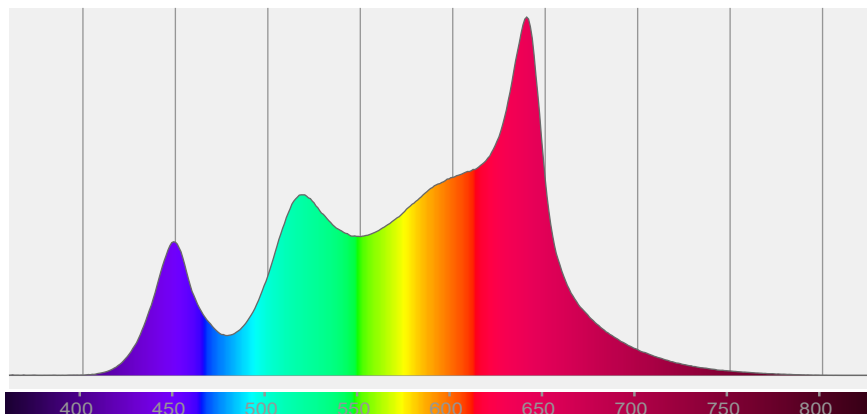
Operator:
Paolo Carvone

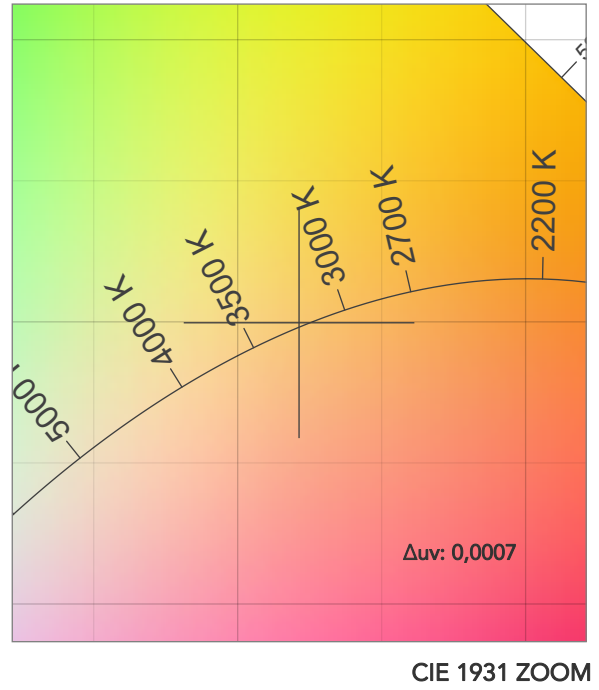
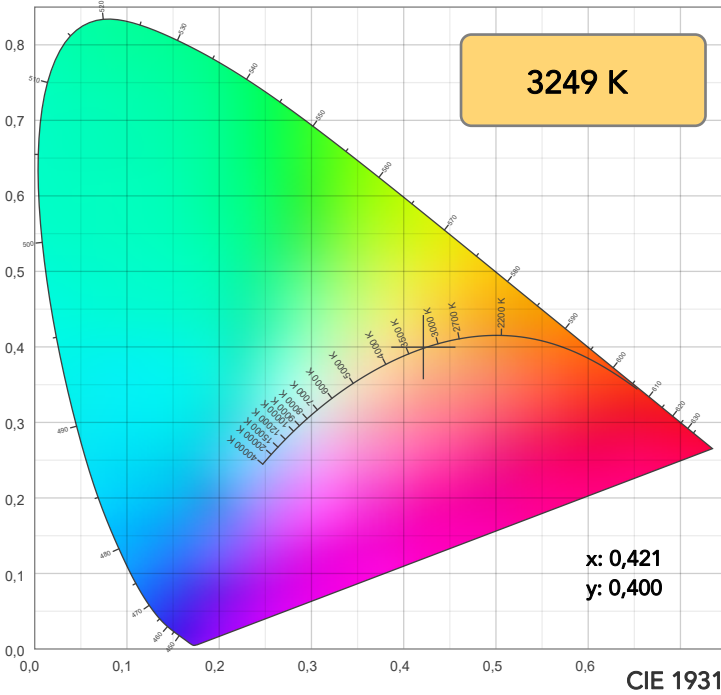
Date and time:
13/06/2022 14:50:15



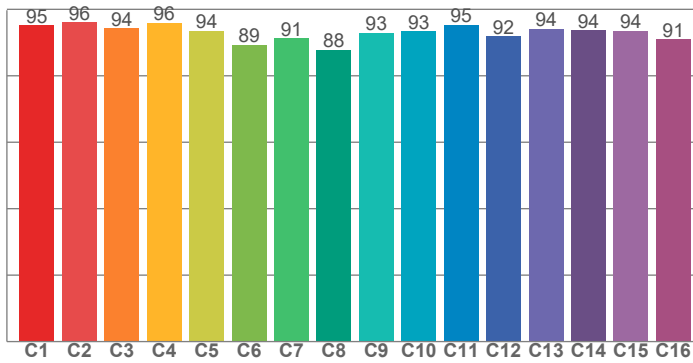
Beam angle 50%: 47°
Field angle 10%: 75,9°
Cut off angle 2.5%: 92,8°

Spectra

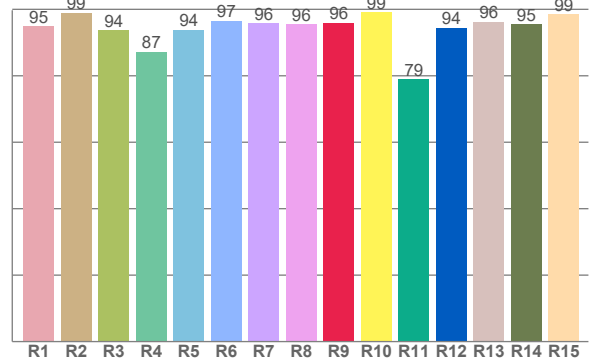




TM30: 93,5



CRI: 94,6 (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
94,9	99,0	93,8	87,3	93,8	96,6	95,8	95,5	96,0	99,0	78,9	94,5	96,3	95,5	98,5

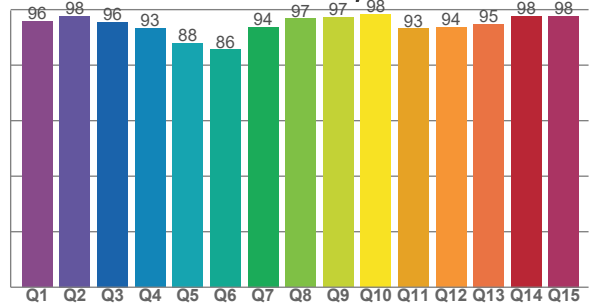
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	96,0	94,3	95,9	93,6	89,3	91,3	87,8	92,9	93,3	95,3	91,9	94,1	93,7	93,5	91,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,8	97,7	95,6	93,3	88,0	85,6	93,8	96,8	97,2	98,4	93,1	93,7	94,9	97,6	97,7

CQS: 93,3



COLOR PARAMETERS

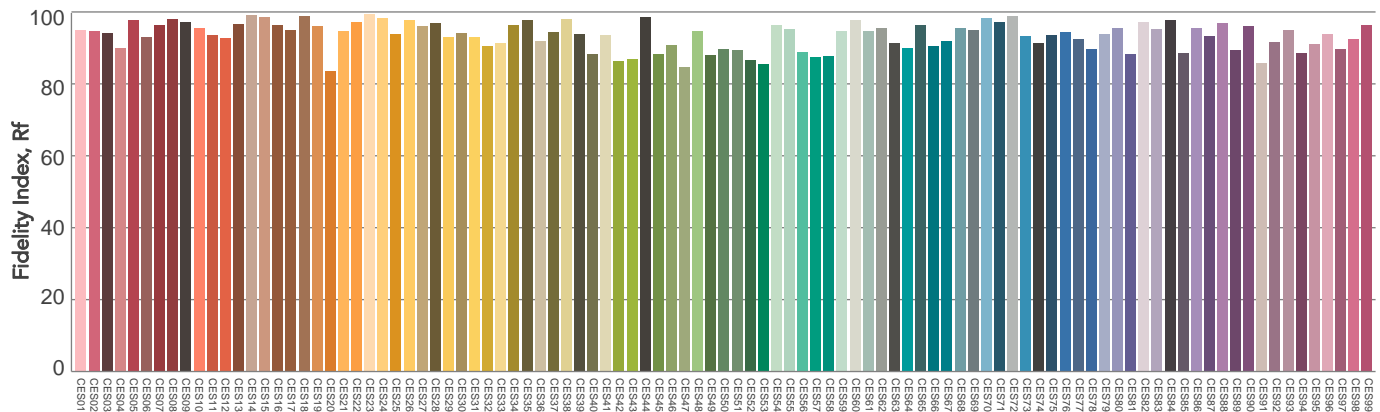
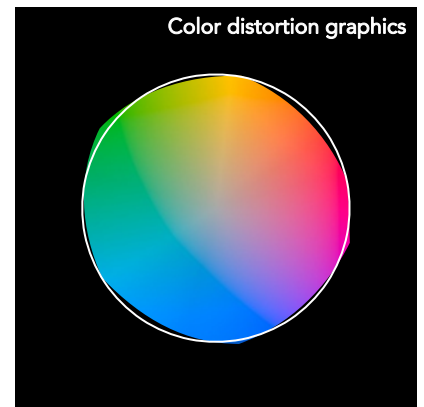
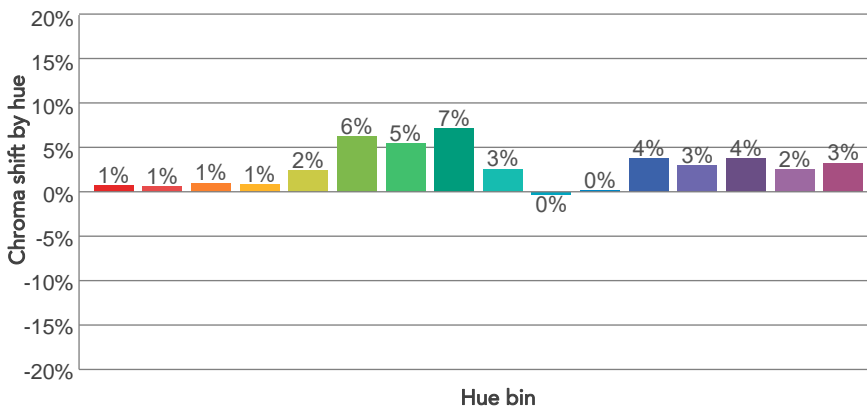
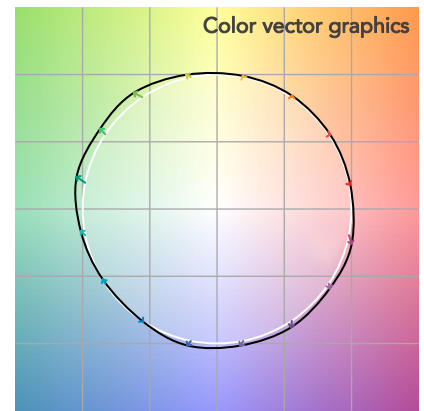
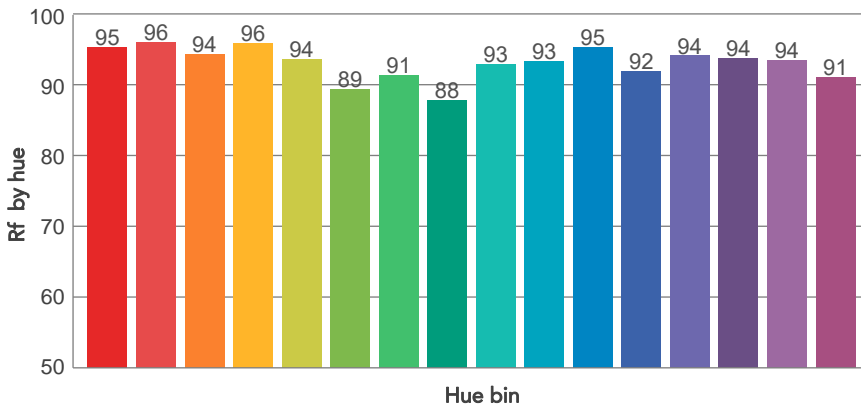
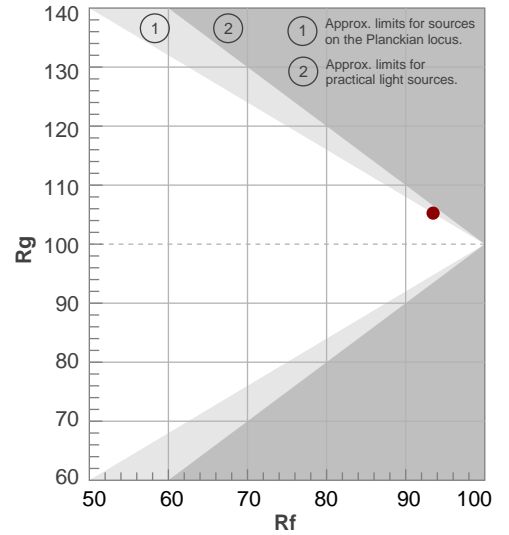
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3249 K	94,6	96,0	93,5	105,3	93,3	85	0,421	0,400	0,0007

TM30 DETAILS

Rf 93,5
Fidelity index Rf

Rg 105,3
Gammut index

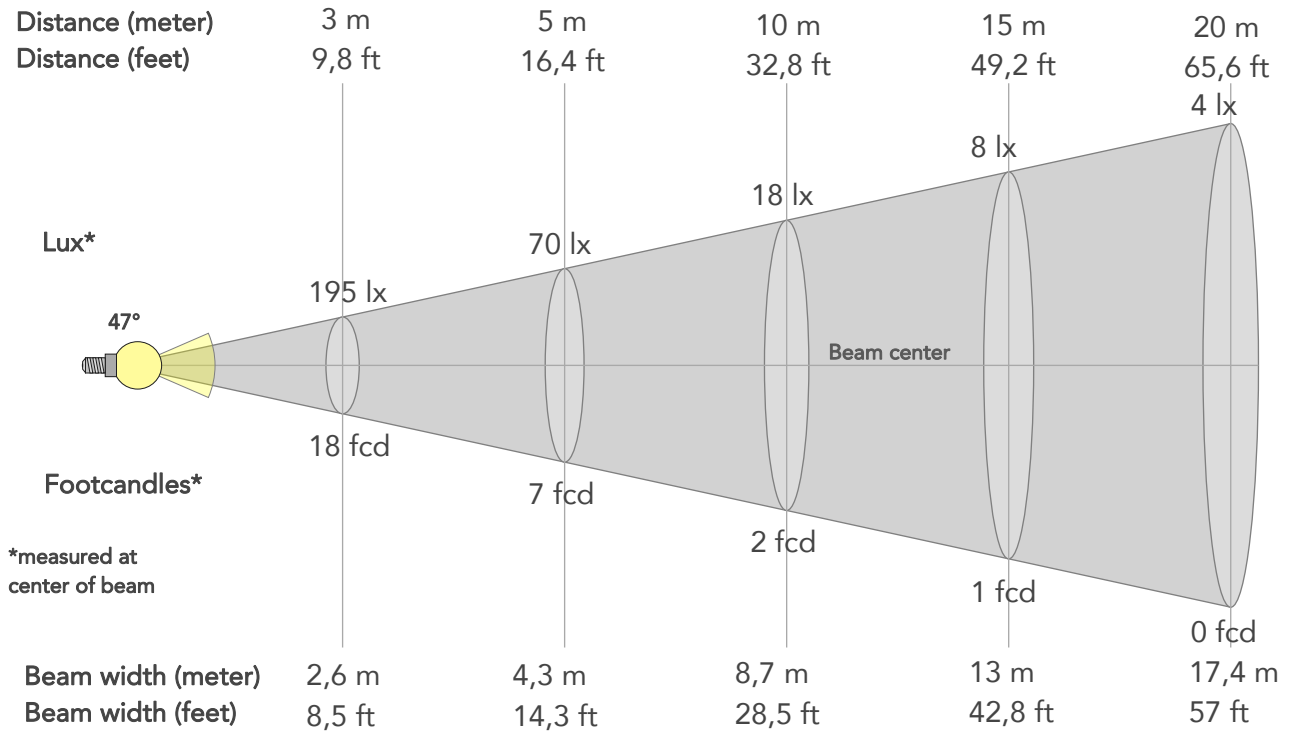
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	94	1%	1%
4	96	1%	1%
5	94	2%	3%
6	89	6%	3%
7	91	5%	-1%
8	88	7%	-3%
9	93	3%	-4%
10	93	0%	-4%
11	95	0%	1%
12	92	4%	-2%
13	94	3%	-3%
14	94	4%	-3%
15	94	2%	-3%
16	91	3%	-6%



BEAM DETAILS



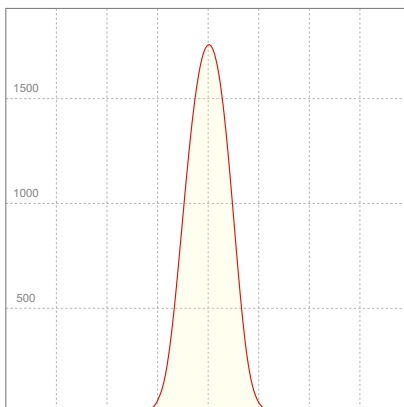
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47°	75,9°	92,8°	99,9%	97,7%



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	1754lx	438lx	195lx	110lx	70lx	31lx	18lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	163fcd	41fcd	18fcd	10fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,3m	6,5m	8,7m	13m	17,4m	21,7m	26,1m	34,8m	43,5m
Beam wid.	2,9ft	5,7ft	8,5ft	11,4ft	14,3ft	21,4ft	28,5ft	42,8ft	57ft	71,3ft	85,5ft	114ft	142,5ft

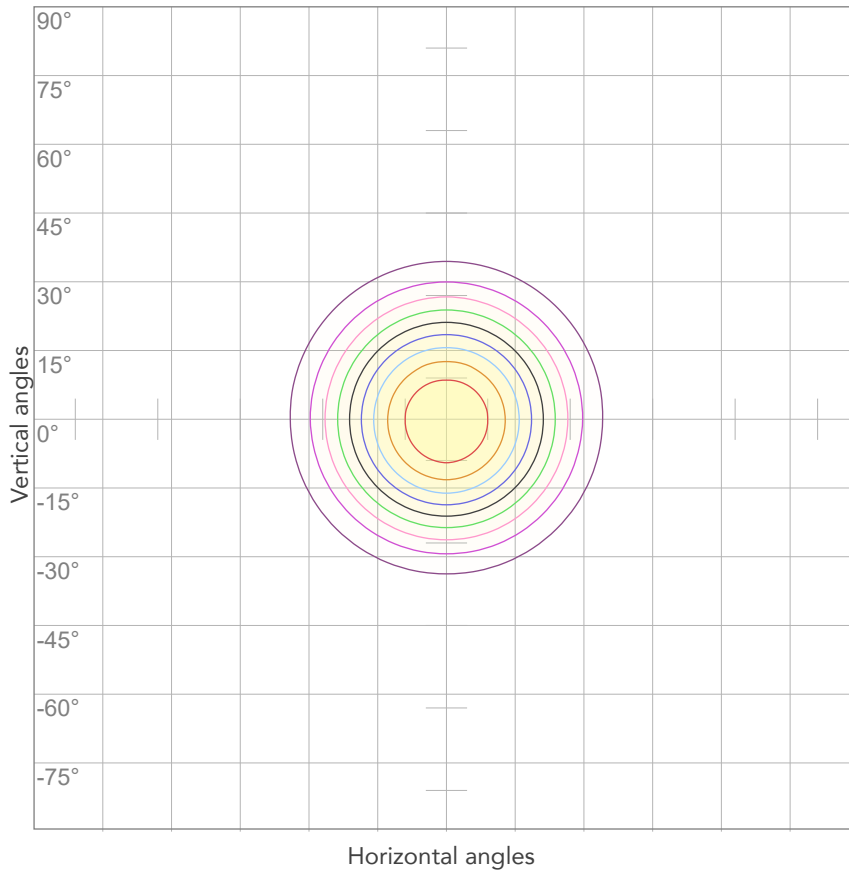
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,168A	34,4W	33lm/W

ISO CANDELA DIAGRAM



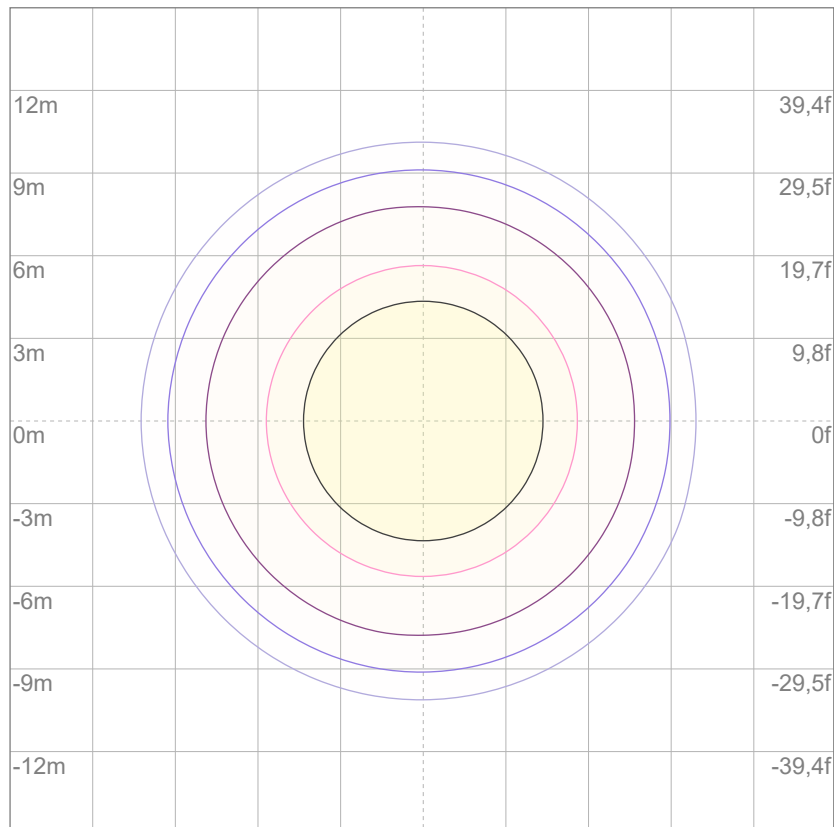
10%	175 cd
20%	351 cd
30%	526 cd
40%	702 cd
50%	877 cd
60%	1052 cd
70%	1228 cd
80%	1403 cd

Conditions:

Number of c-planes: 2

Candela at center: 1754 cd

ISO LUX DIAGRAM



3%	0,526 lx
5%	0,877 lx
10%	1,75 lx
30%	5,26 lx
50%	8,77 lx

Conditions:

Number of c-planes: 2

Lux at center: 17,5 lx

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



Total lumen output:

1100 lm

Peak candela output:

1323 cd

Light quality:

CRI: 94,4

Color temperature:

3233 K

PRODUCT NAME:
SMARTBATPLUSG2

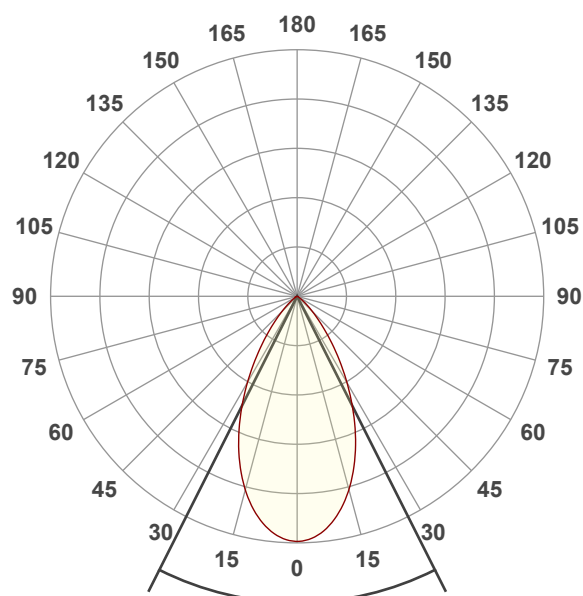
MEASURAMENT CONDITIONS:

Beam angle:
60° Filter

Target:
3200K Cal.On.

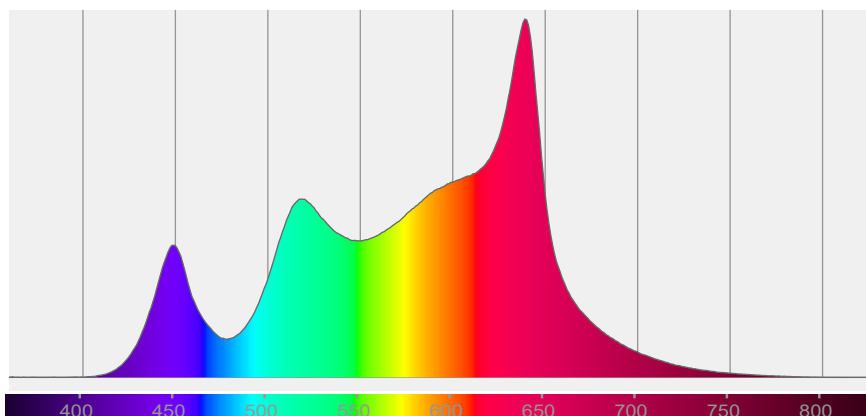
Operator:
Paolo Carvone

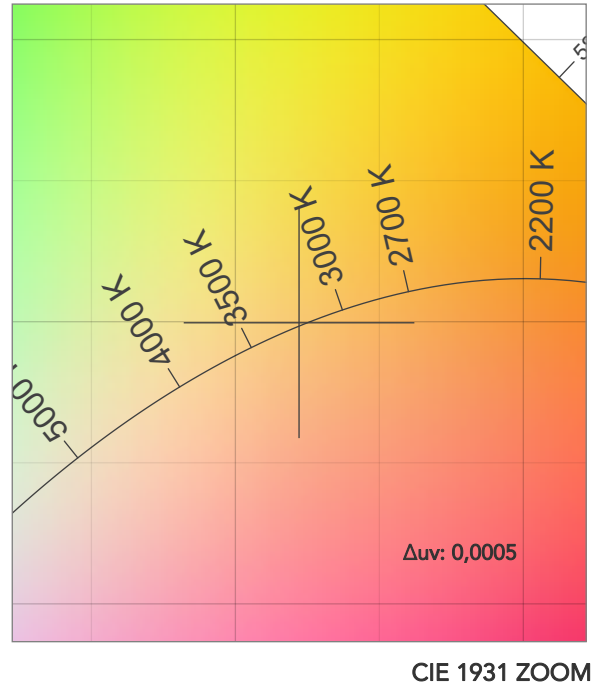
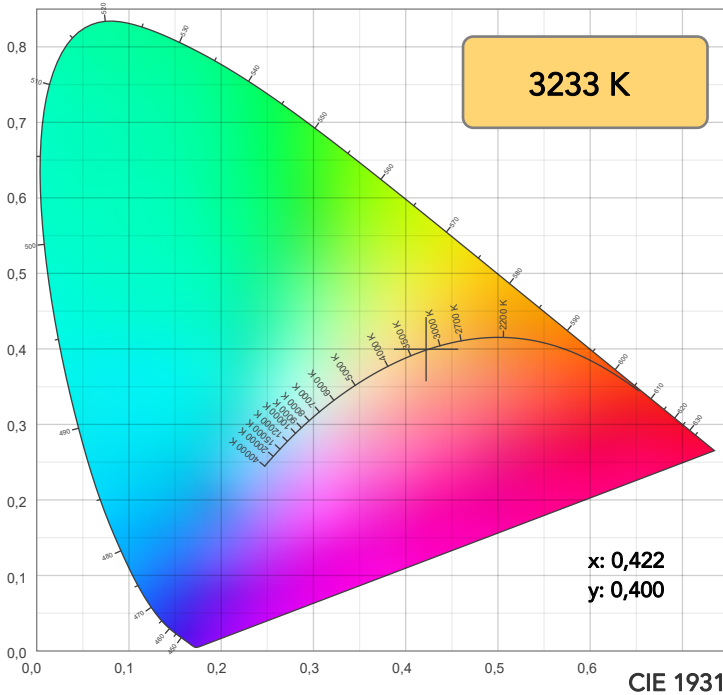
Date and time:
13/06/2022 14:28:40



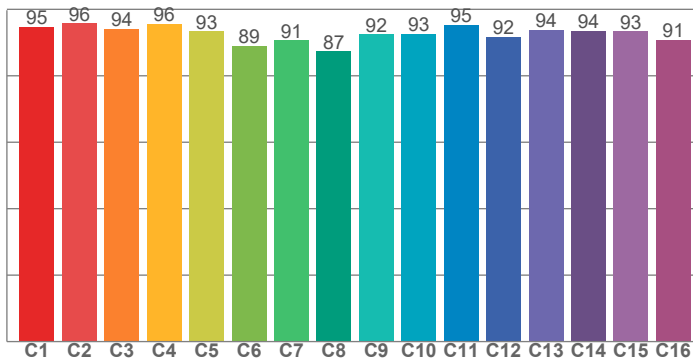
Beam angle 50%: 53,5°
Field angle 10%: 88,3°
Cut off angle 2.5%: 106,4°

Spectra

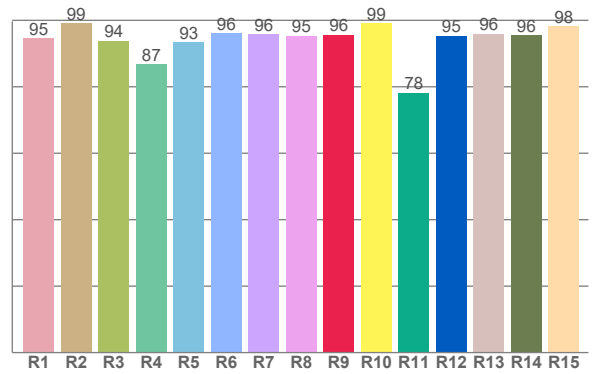




TM30: 93,2



CRI: 94,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,6	99,1	93,8	86,8	93,4	96,2	95,7	95,3	95,7	99,2	78,2	95,4	96,0	95,5	98,3

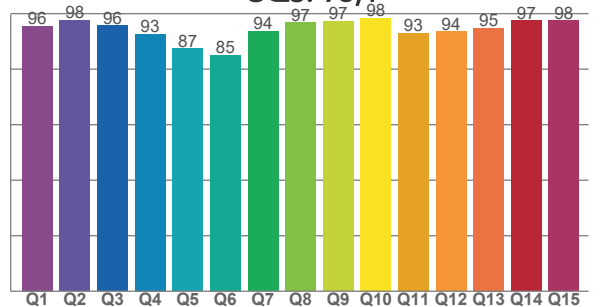
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,8	95,8	94,0	95,6	93,4	88,9	90,7	87,3	92,4	92,7	95,3	91,7	93,8	93,6	93,4	90,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,5	97,6	95,7	92,7	87,4	85,1	93,7	96,7	97,2	98,4	93,0	93,6	94,8	97,5	97,6

CQS: 93,1



COLOR PARAMETERS

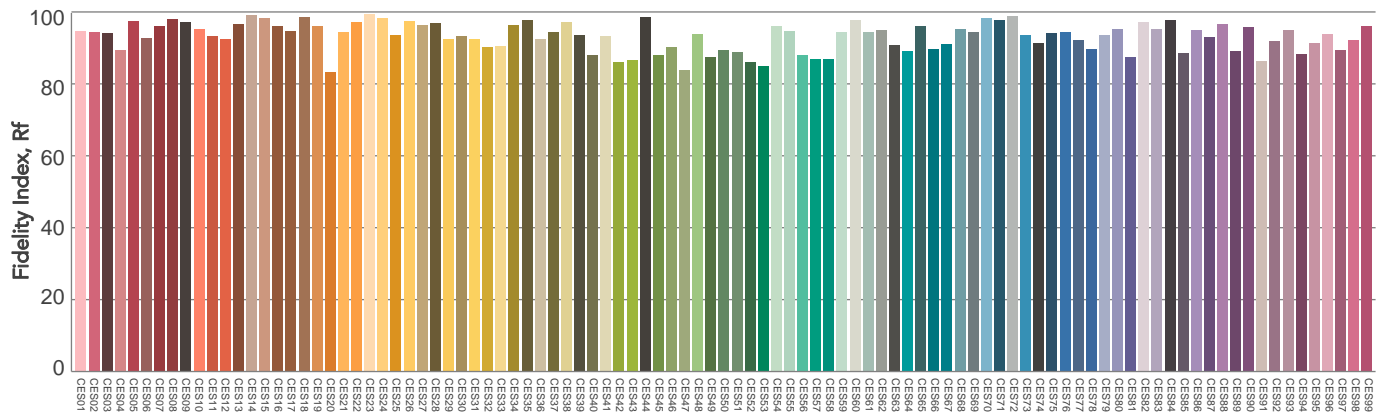
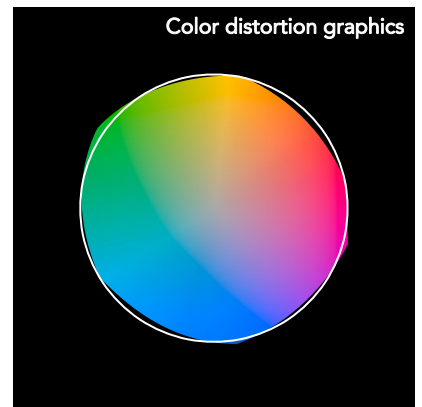
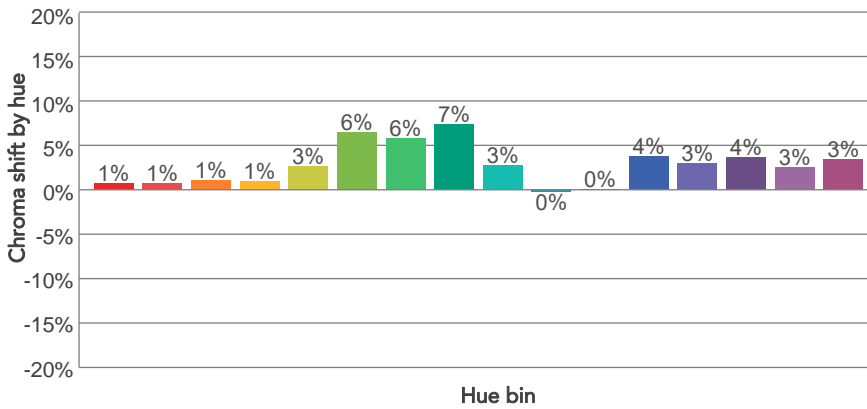
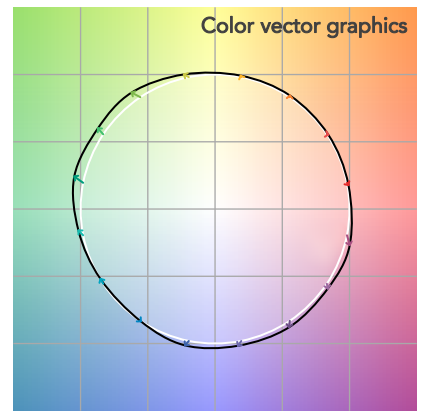
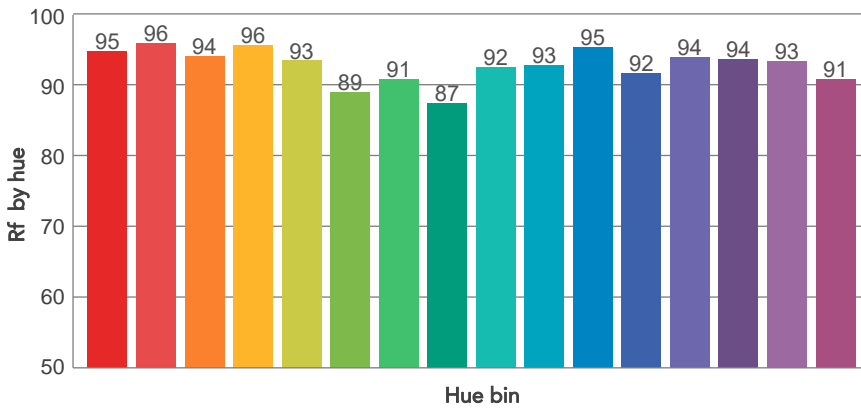
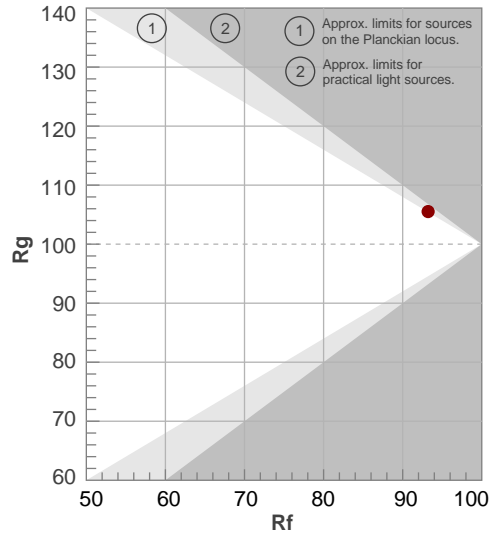
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3233 K	94,4	95,7	93,2	105,5	93,1	84	0,422	0,400	0,0005

TM30 DETAILS

Rf 93,2
Fidelity index Rf

Rg 105,5
Gammut index

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

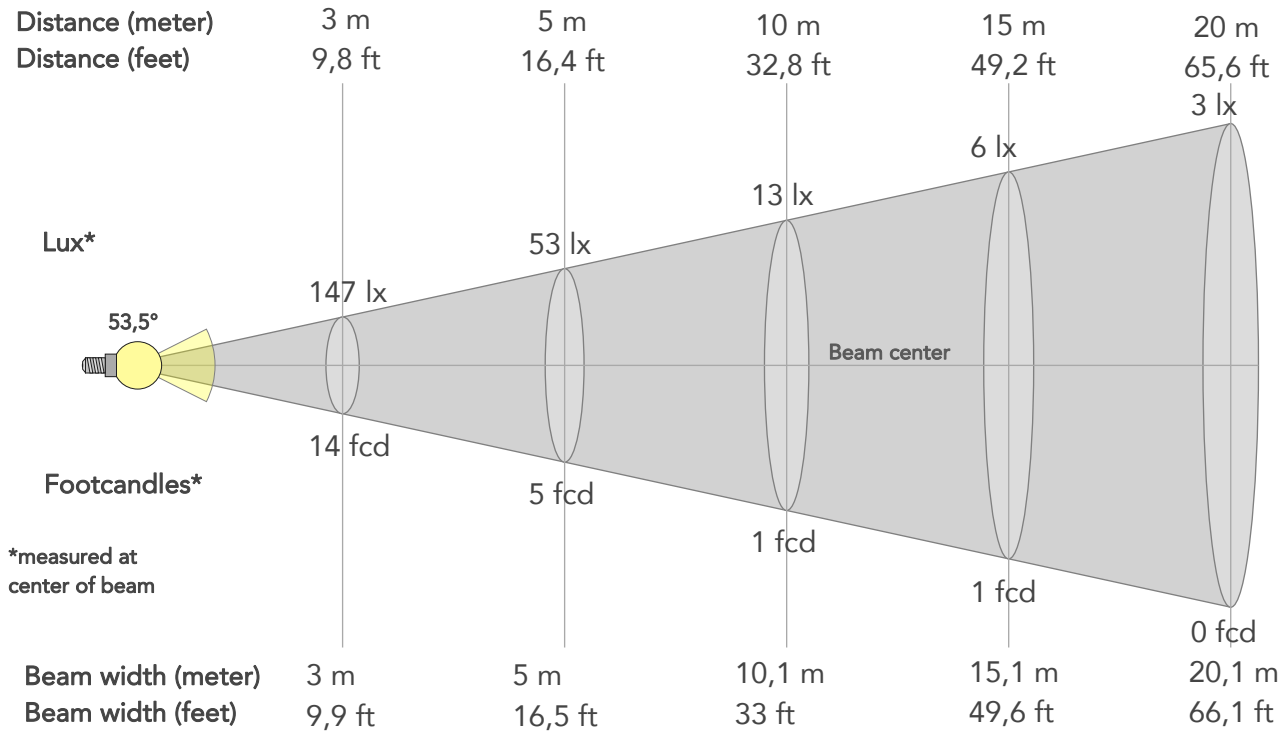


Color Evaluation Sample

BEAM DETAILS



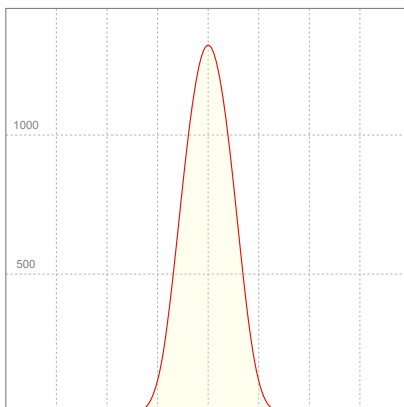
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,5°	88,3°	106,4°	99,6%	94,4%



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	1322lx	330lx	147lx	83lx	53lx	23lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	123fcd	31fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,6m	10,1m	15,1m	20,1m	25,2m	30,2m	40,3m	50,4m
Beam wid.	3,3ft	6,6ft	9,9ft	13,2ft	16,5ft	24,8ft	33ft	49,6ft	66,1ft	82,6ft	99,1ft	132,2ft	165,2ft

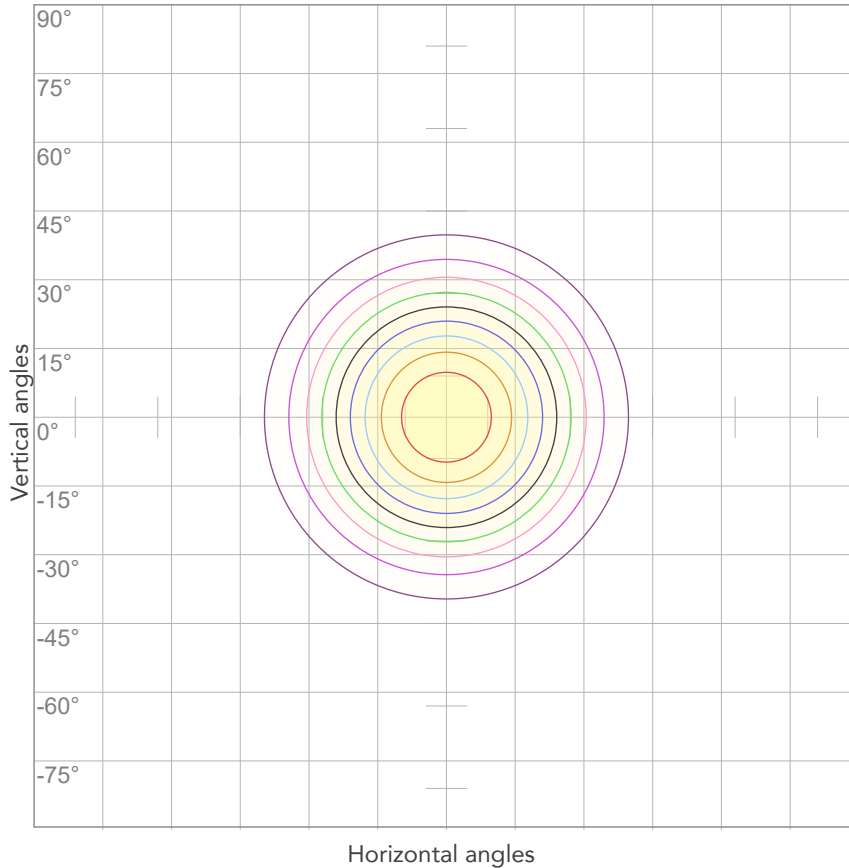
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,169A	34,6W	32lm/W

ISO CANDELA DIAGRAM



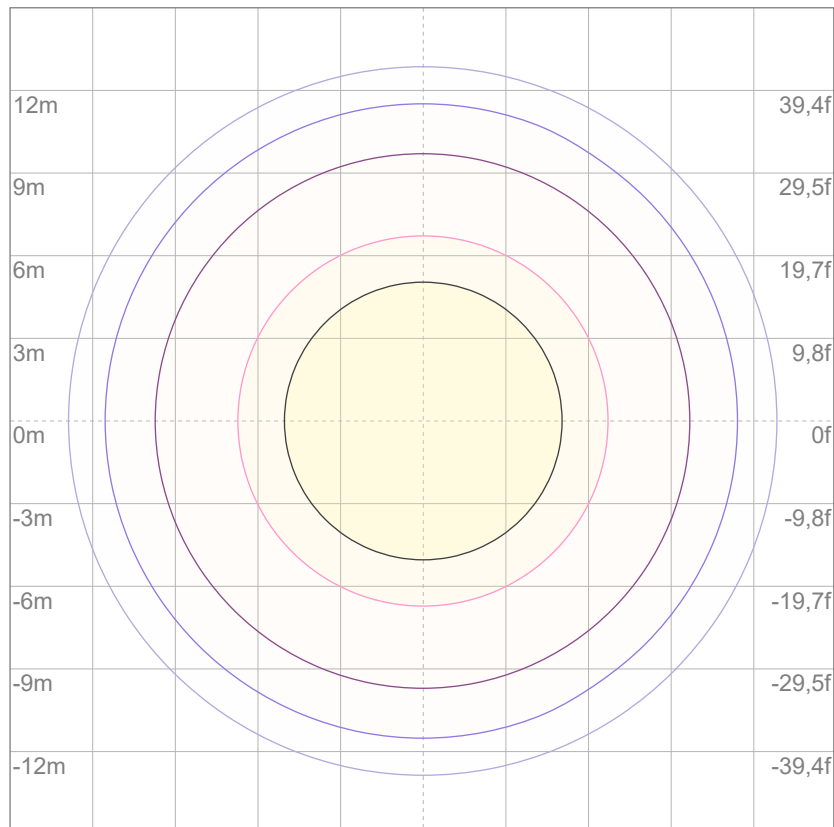
10%	132 cd
20%	264 cd
30%	397 cd
40%	529 cd
50%	661 cd
60%	793 cd
70%	925 cd
80%	1057 cd

Conditions:

Number of c-planes: 2

Candela at center: 1322 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,397 lx
5%	0,661 lx
10%	1,32 lx
30%	3,97 lx
50%	6,61 lx

Conditions:

Number of c-planes: 2

Lux at center: 13,2 lx

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



Total lumen output:

1633 lm

Peak candela output:

3071 cd

Light quality:

CRI: 94,5

Color temperature:

3211 K

PRODUCT NAME:
SMARTBATPLUSG2

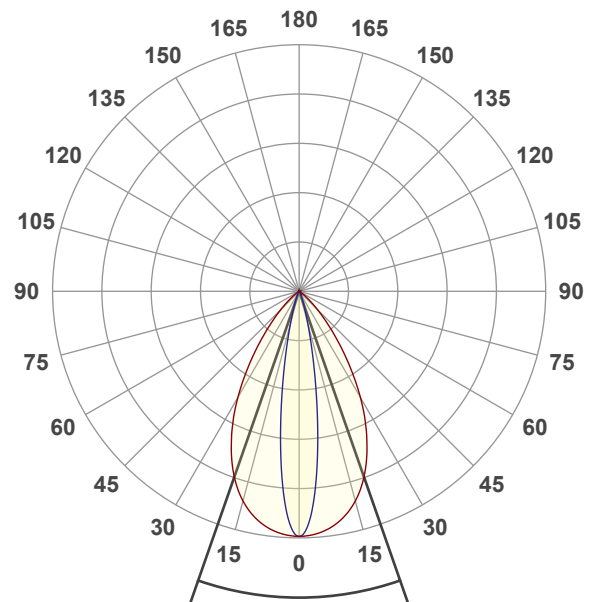
MEASUREMENT CONDITIONS:

Beam angle:
1060 Filter

Target:
3200K On Cal.On.

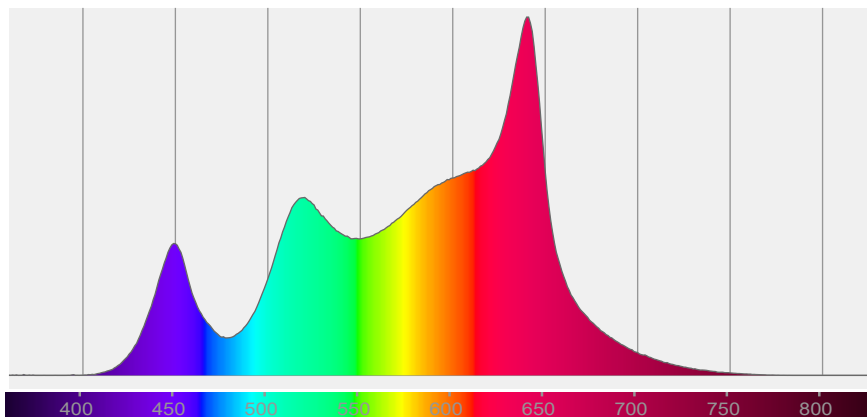
Operator:
Paolo Carvone

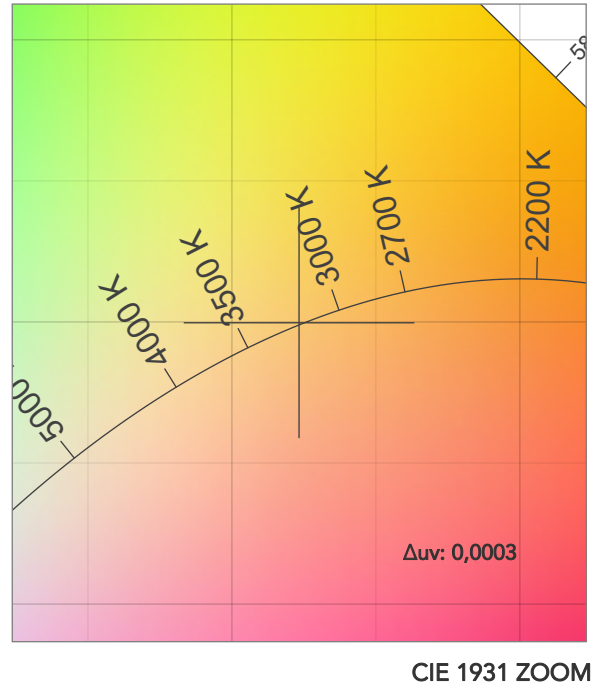
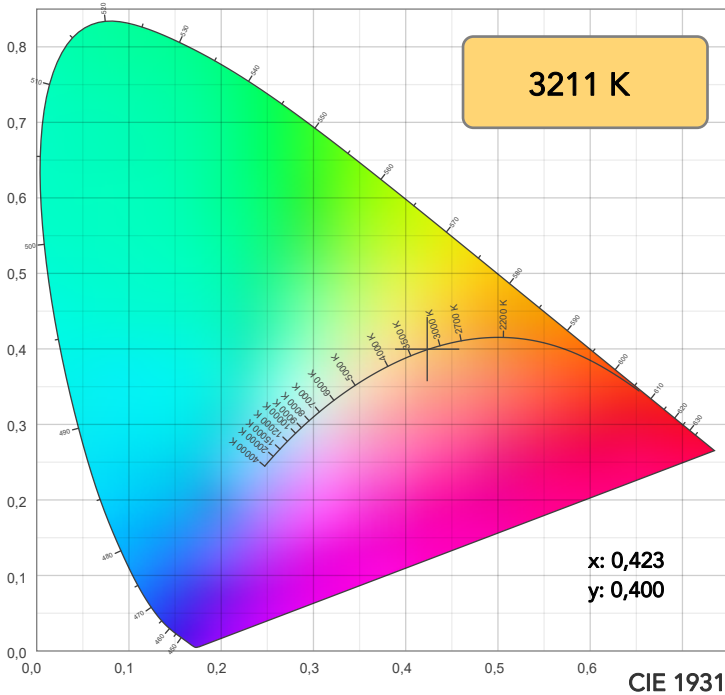
Date and time:
10/06/2022 14:42:02



Beam angle 50%: 38,5°
Field angle 10%: 61,8°
Cut off angle 2.5%: 75,6°

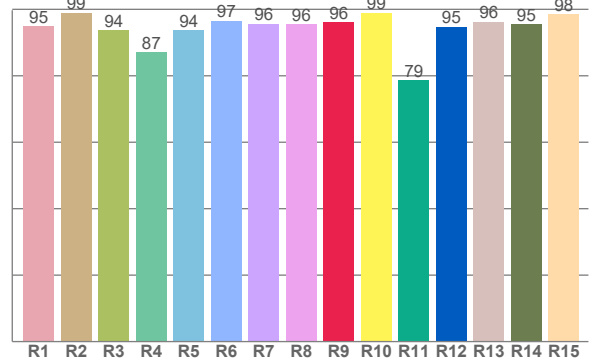
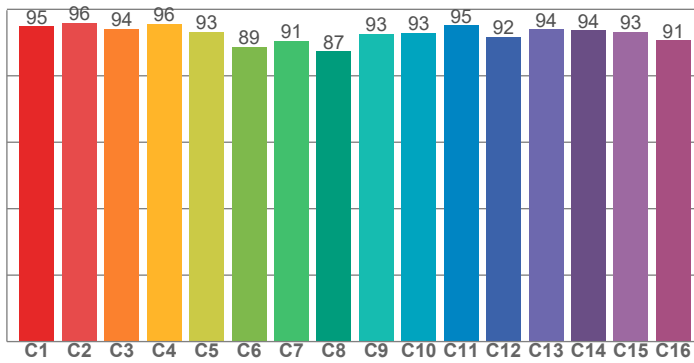
Spectra





TM30: 93,2

CRI: 94,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,0	98,9	93,7	87,1	93,8	96,5	95,6	95,5	96,2	98,9	78,7	94,8	96,3	95,4	98,5

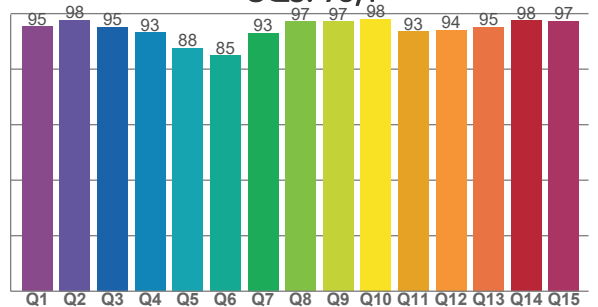
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,9	96,0	94,2	95,5	93,1	88,8	90,5	87,4	92,5	93,0	95,1	91,8	94,0	93,6	93,3	90,7

CQS Q values

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

CQS: 93,1



COLOR PARAMETERS

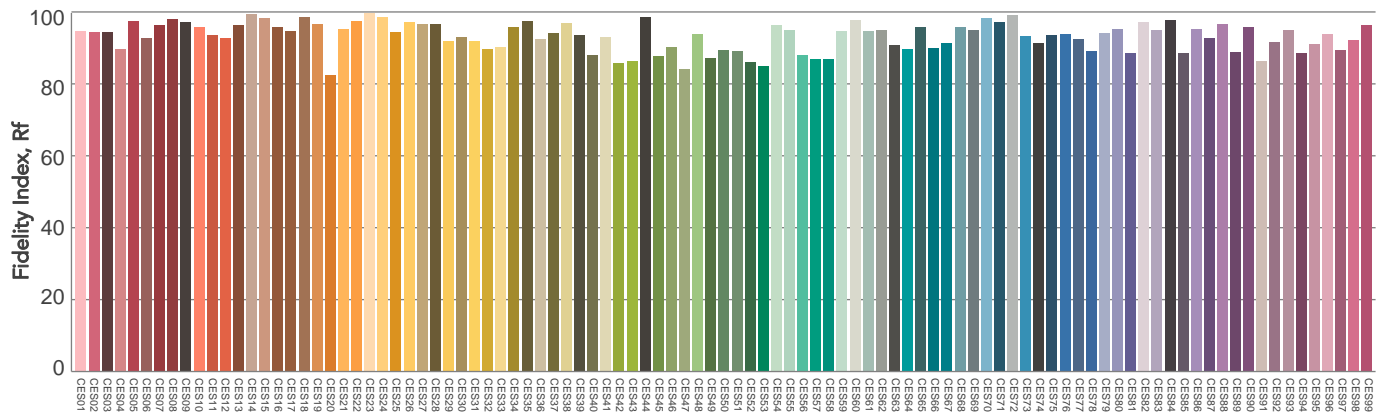
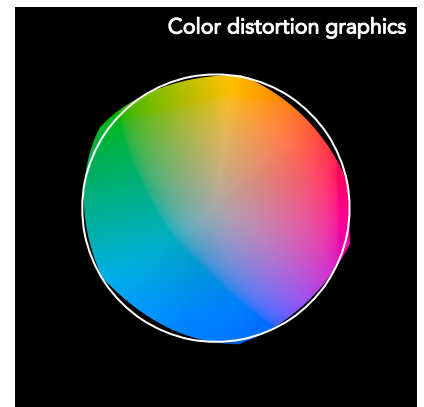
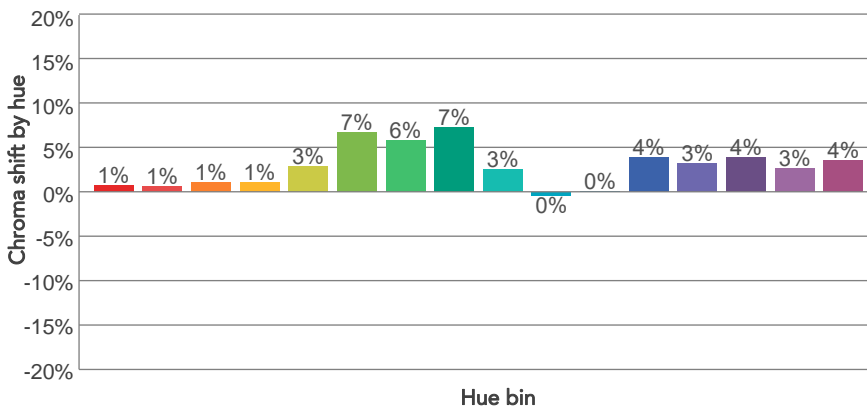
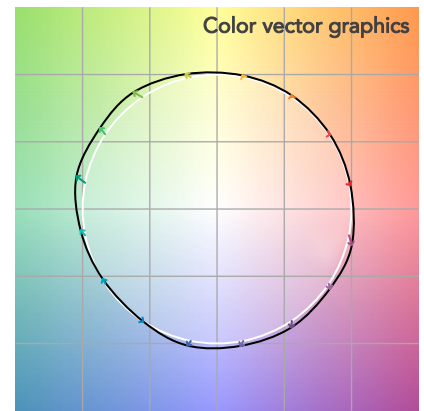
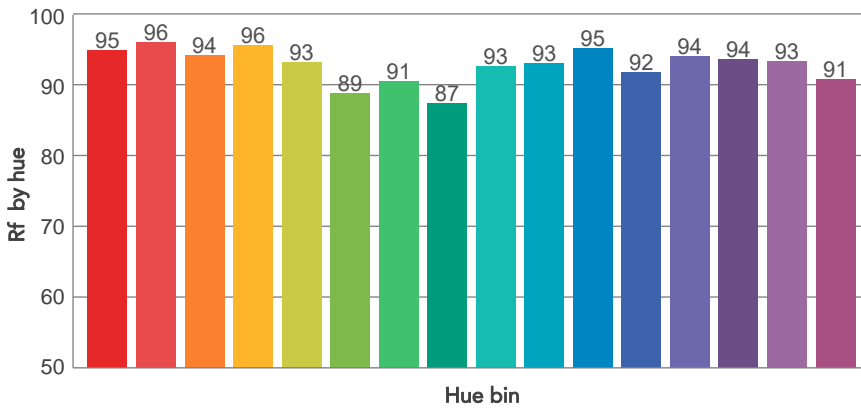
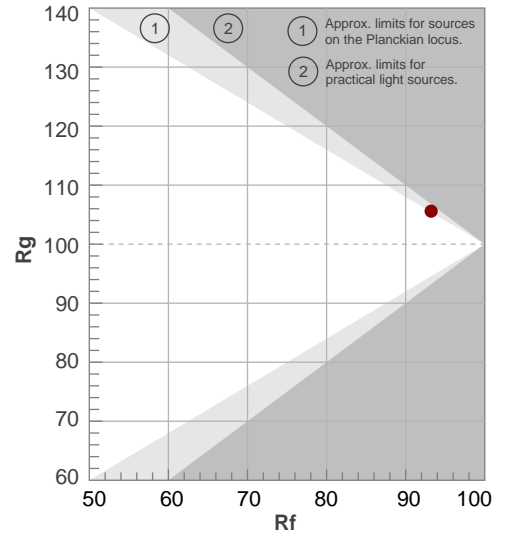
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3211 K	94,5	96,2	93,2	105,6	93,1	84	0,423	0,400	0,0003

TM30 DETAILS

Rf 93,2
Fidelity index Rf

Rg 105,6
Gammut index

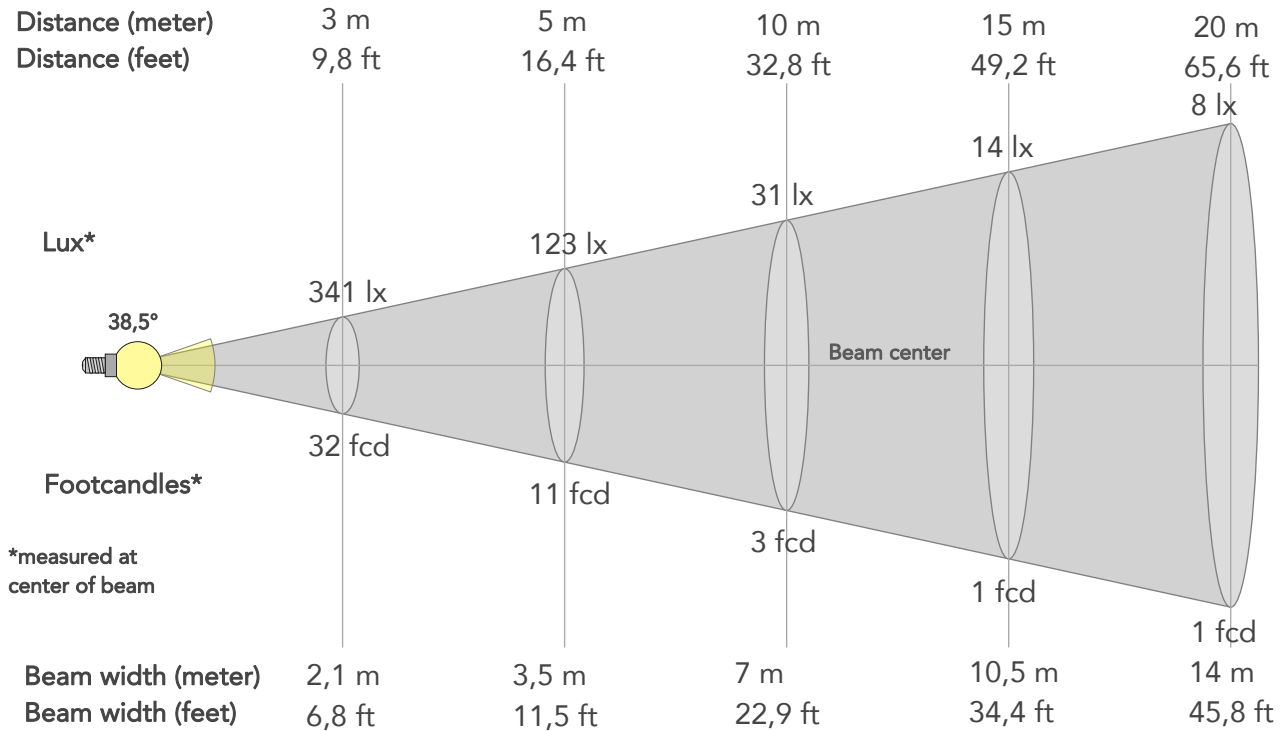
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	94	1%	1%
4	96	1%	1%
5	93	3%	3%
6	89	7%	3%
7	91	6%	-2%
8	87	7%	-3%
9	93	3%	-4%
10	93	0%	-4%
11	95	0%	1%
12	92	4%	-2%
13	94	3%	-3%
14	94	4%	-3%
15	93	3%	-3%
16	91	4%	-7%



BEAM DETAILS



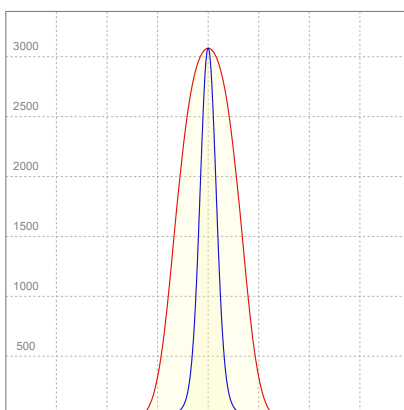
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38,5°	61,8°	75,6°	100,0%	95,6%



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	3070lx	768lx	341lx	192lx	123lx	55lx	31lx	14lx	8lx	5lx	3lx	2lx	1lx
Footcand.	285fcd	71fcd	32fcd	18fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,2m	7m	10,5m	14m	17,5m	20,9m	27,9m	34,9m
Beam wid.	2,3ft	4,6ft	6,8ft	9,1ft	11,5ft	17,2ft	22,9ft	34,4ft	45,8ft	57,3ft	68,7ft	91,6ft	114,5ft

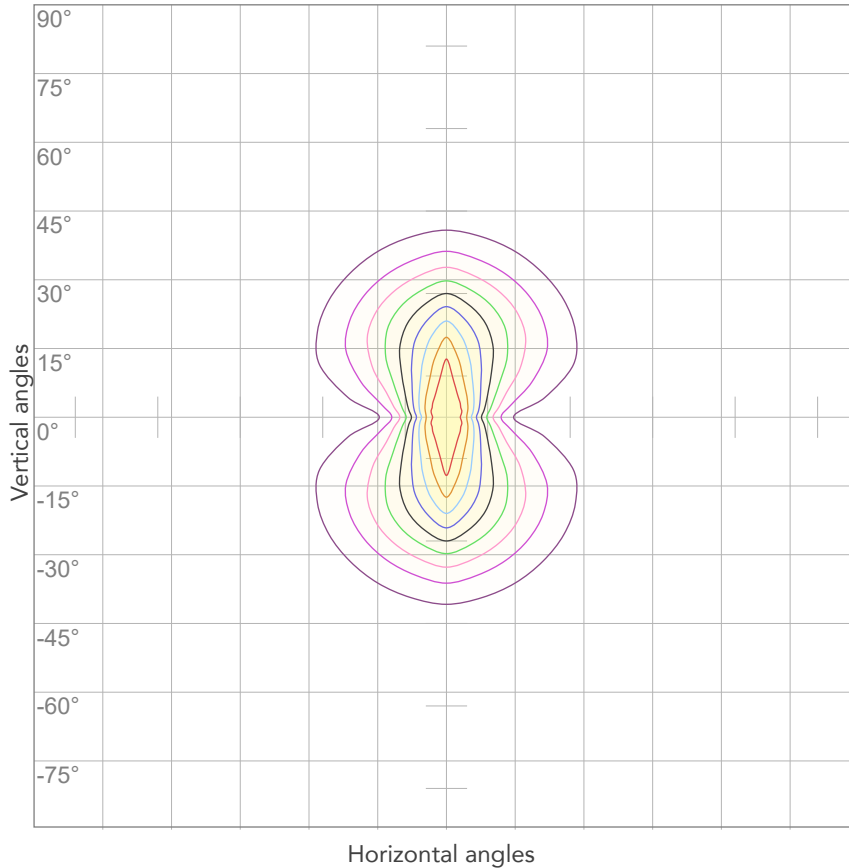
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,166A	34,2W	48lm/W

ISO CANDELA DIAGRAM



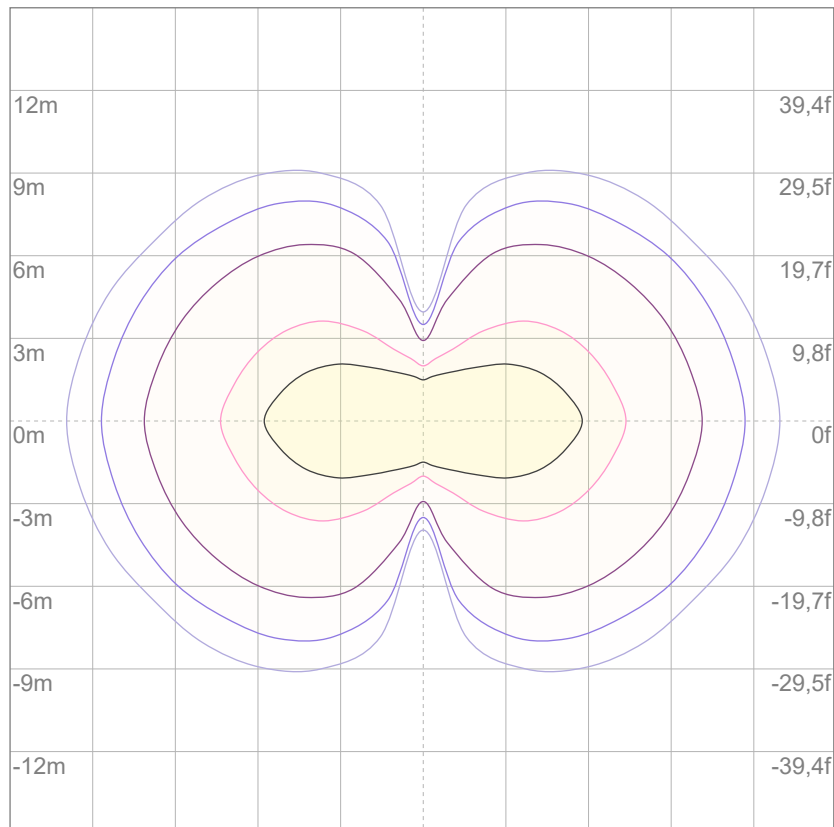
10%	307 cd
20%	614 cd
30%	921 cd
40%	1228 cd
50%	1535 cd
60%	1842 cd
70%	2149 cd
80%	2456 cd

Conditions:

Number of c-planes: 4

Candela at center: 3070 cd

ISO LUX DIAGRAM



3%	0,921 lx
5%	1,54 lx
10%	3,07 lx
30%	9,21 lx
50%	15,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 30,7 lx

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



Total lumen output:

1153 lm

Peak candela output:

23288 cd

Light quality:

CRI: 93,3

Color temperature:

4028 K

PRODUCT NAME:
SMARTBATPLUSG2

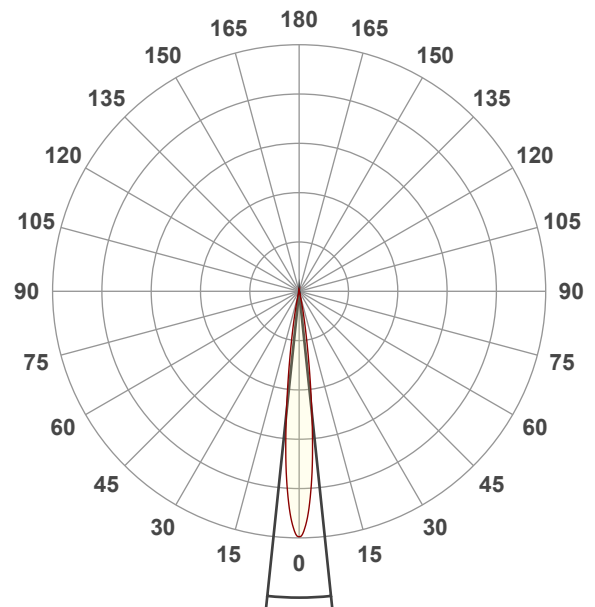
MEASURAMENT CONDITIONS:

Beam angle:
Native Optic (Without Filter)

Target:
4000K Cal.On.

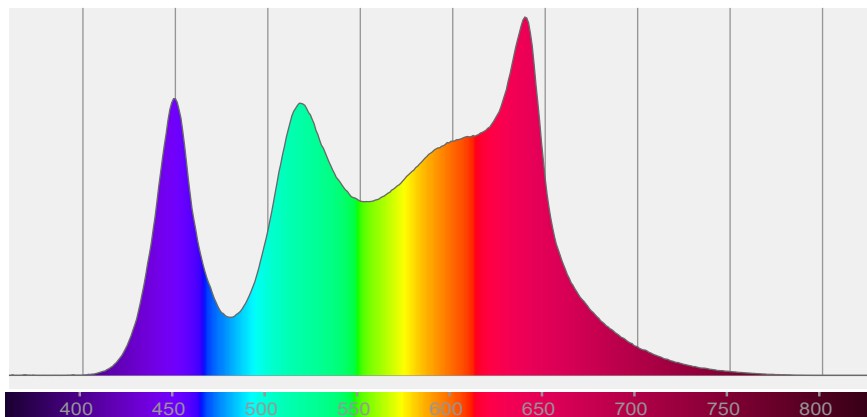
Operator:
Paolo Carvone

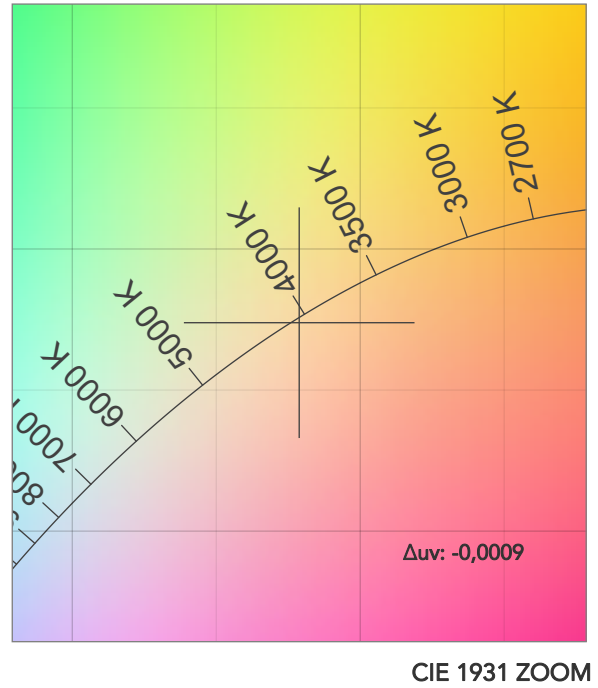
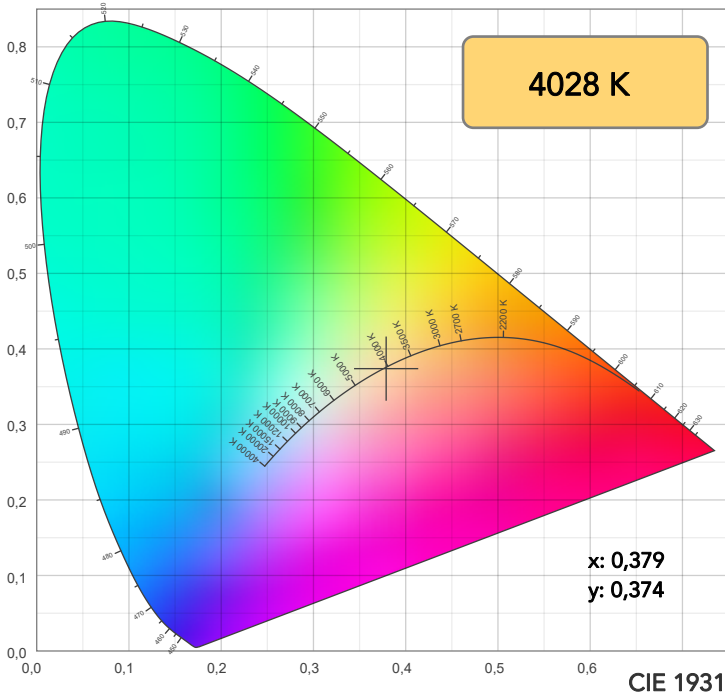
Date and time:
10/06/2022 13:01:30



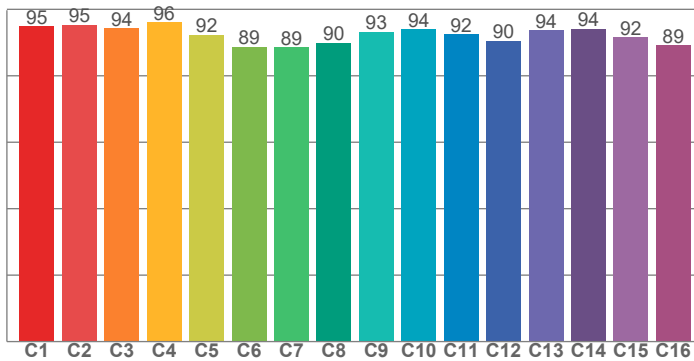
Beam angle 50%: 11,9°
Field angle 10%: 21,2°
Cut off angle 2.5%: 28°

Spectra

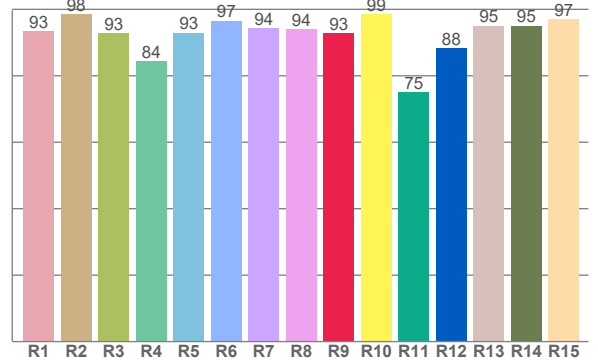




TM30: 92,7



CRI: 93,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,4	98,5	92,7	84,3	92,9	96,6	94,4	94,0	92,9	98,6	75,0	88,3	95,1	95,1	97,1

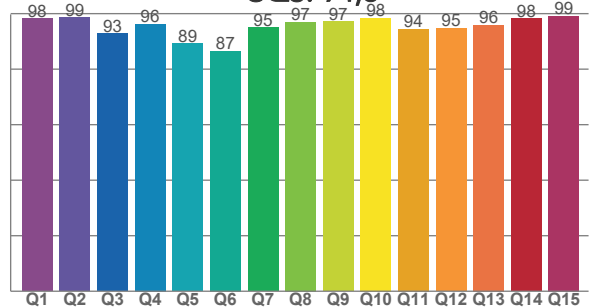
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,9	95,4	94,3	96,0	92,4	88,6	88,5	89,9	93,2	94,0	92,4	90,5	93,6	94,1	91,6	89,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,2	98,6	92,9	96,2	89,2	86,6	95,0	97,0	97,1	98,4	94,5	94,7	95,9	98,2	99,1

CQS: 94,3



COLOR PARAMETERS

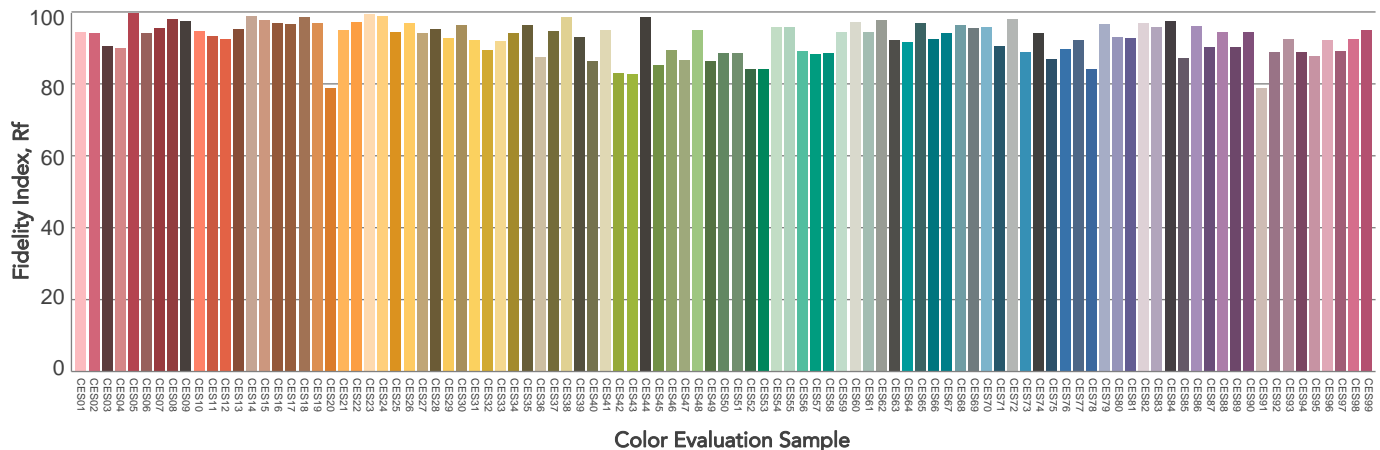
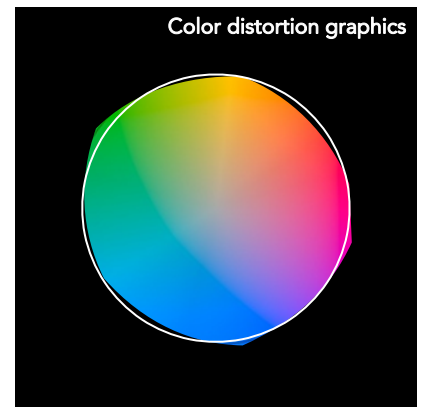
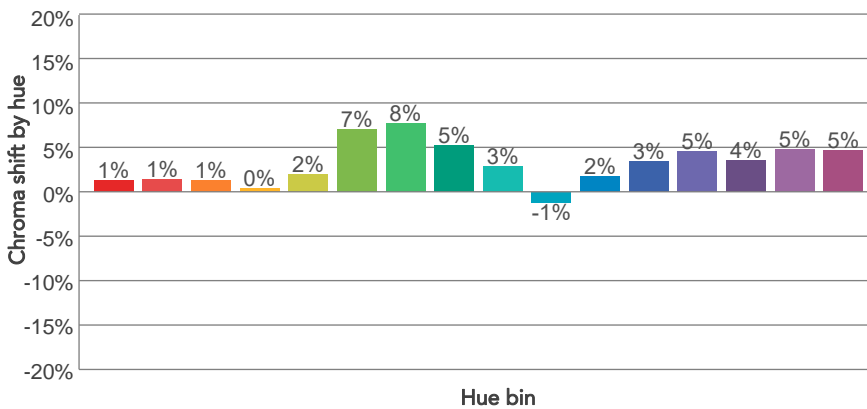
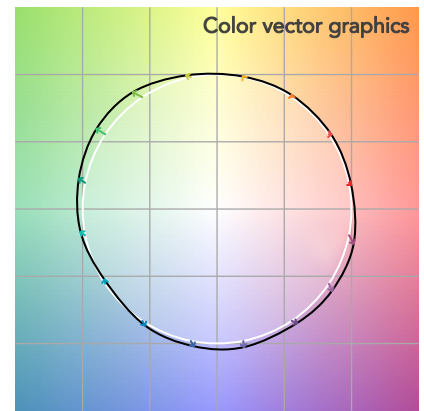
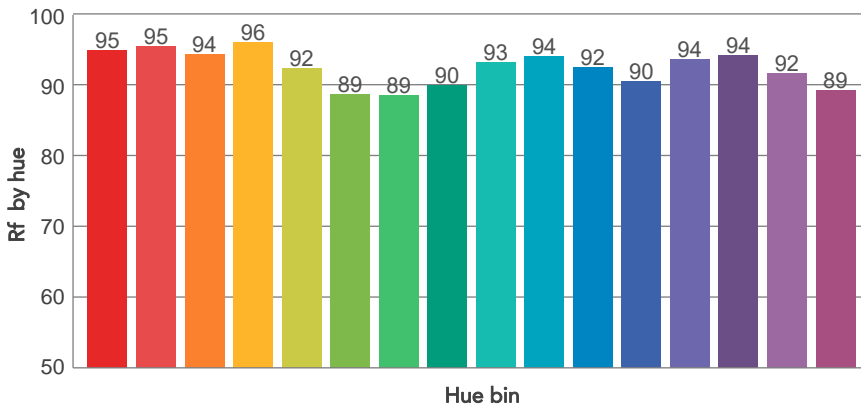
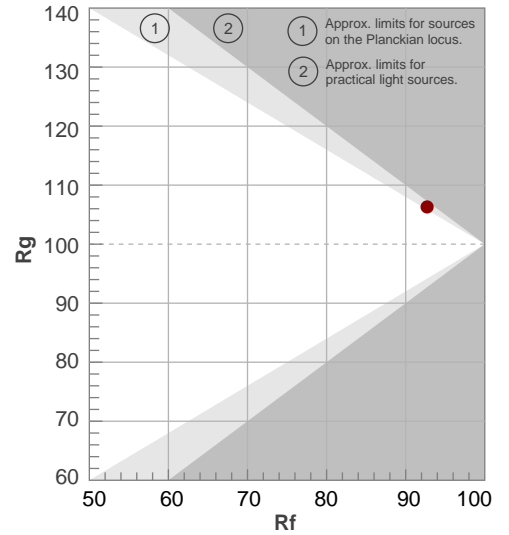
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4028 K	93,3	92,9	92,7	106,3	94,3	81	0,379	0,374	-0,0009

TM30 DETAILS

Rf 92,7
Fidelity index Rf

Rg 106,3
Gammut index

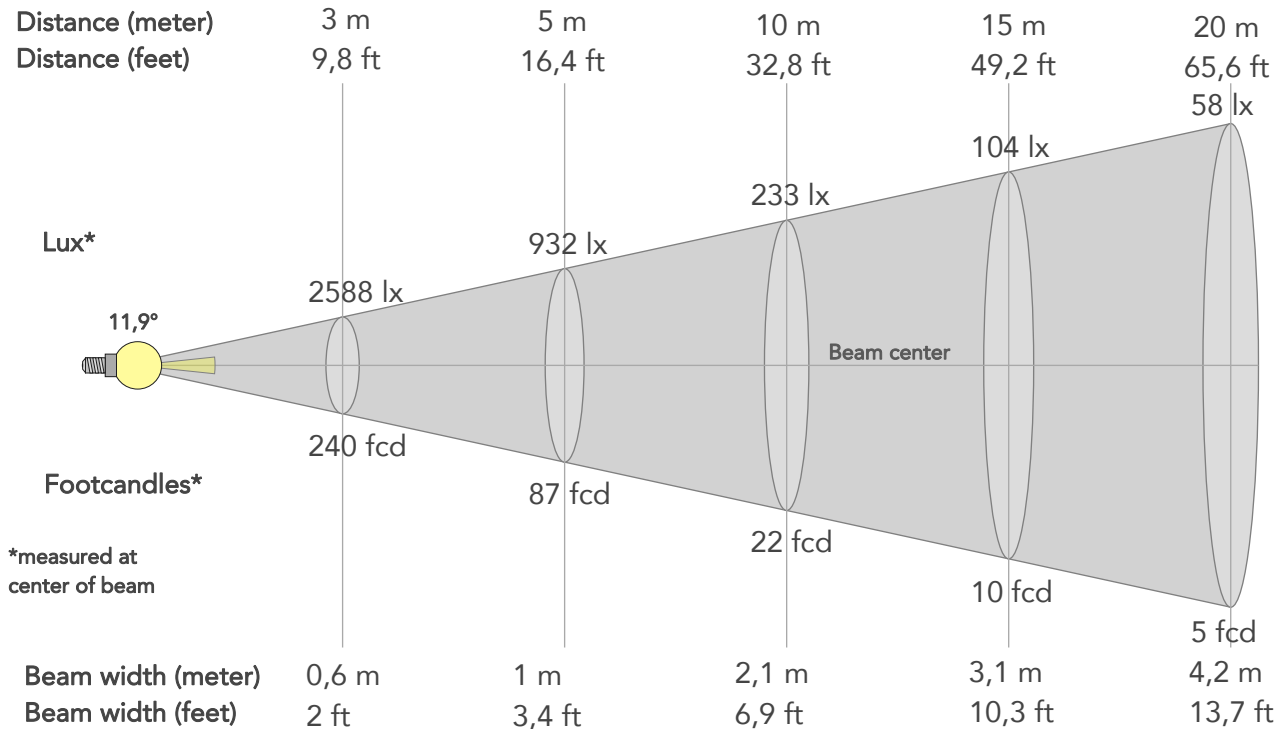
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	95	1%	-1%
3	94	1%	1%
4	96	0%	0%
5	92	2%	3%
6	89	7%	4%
7	89	8%	0%
8	90	5%	-2%
9	93	3%	-3%
10	94	-1%	-3%
11	92	2%	4%
12	90	3%	3%
13	94	5%	0%
14	94	4%	2%
15	92	5%	-3%
16	89	5%	-5%



BEAM DETAILS



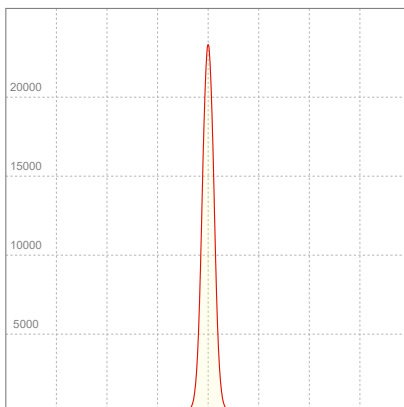
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,9°	21,2°	28°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	23288lx	5822lx	2588lx	1456lx	932lx	414lx	233lx	104lx	58lx	37lx	26lx	15lx	9lx
Footcand.	2164fcd	541fcd	240fcd	135fcd	87fcd	38fcd	22fcd	10fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,6m	2,1m	3,1m	4,2m	5,2m	6,3m	8,4m	10,4m
Beam wid.	0,7ft	1,4ft	2ft	2,7ft	3,4ft	5,1ft	6,9ft	10,3ft	13,7ft	17,1ft	20,6ft	27,4ft	34,3ft

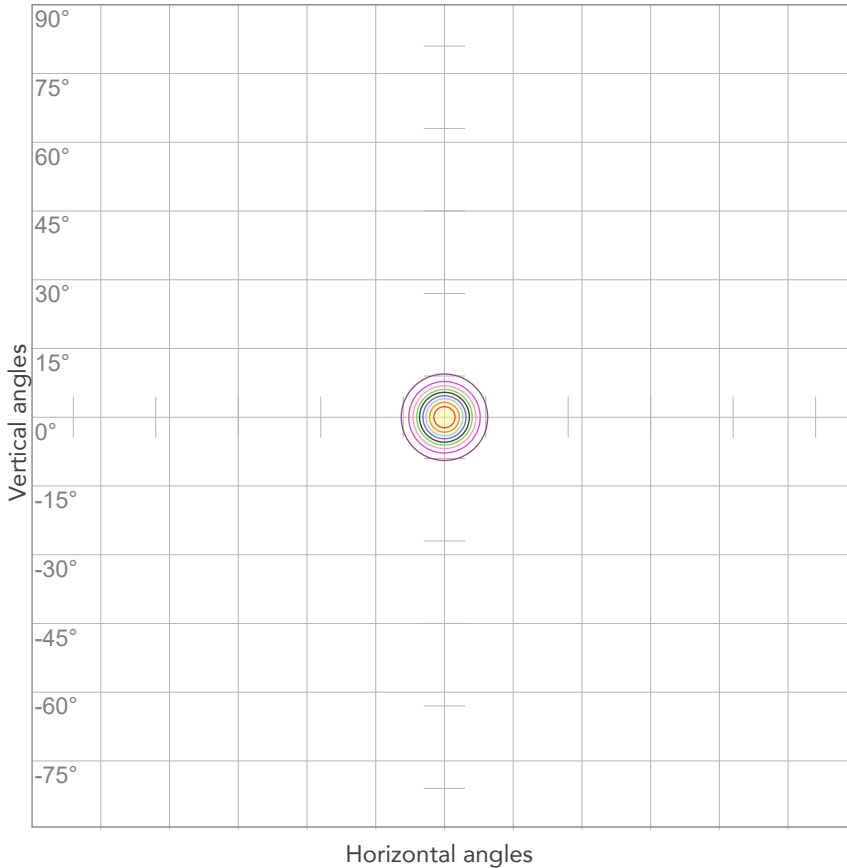
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,178A	36,7W	31lm/W

ISO CANDELA DIAGRAM



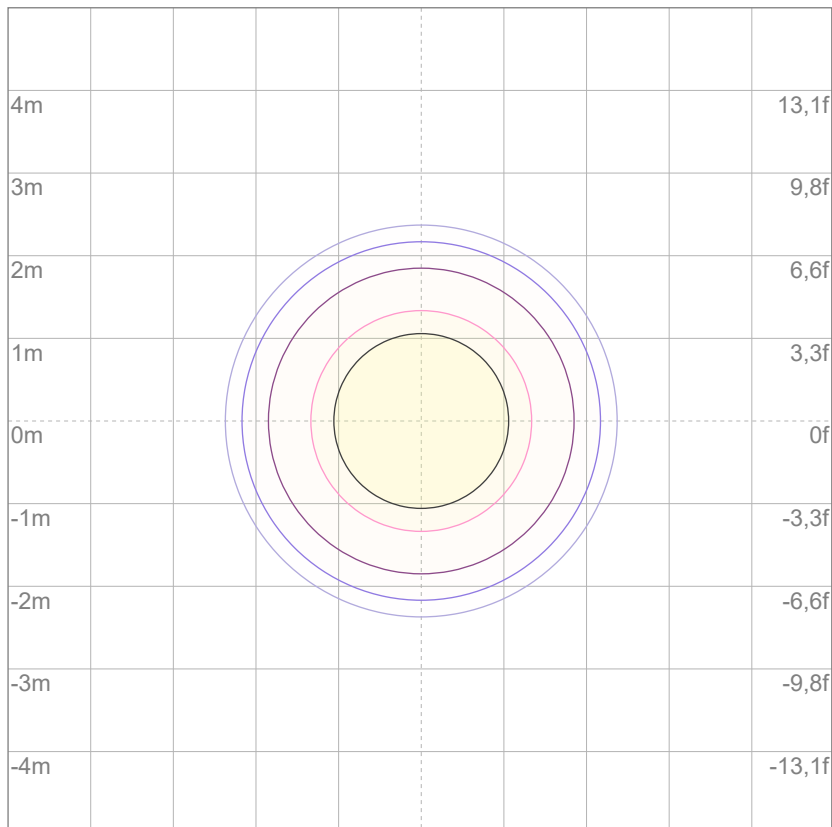
10%	2329 cd
20%	4658 cd
30%	6987 cd
40%	9315 cd
50%	11644 cd
60%	13973 cd
70%	16302 cd
80%	18631 cd

Conditions:

Number of c-planes: 2

Candela at center: 23288 cd

ISO LUX DIAGRAM



3%	6,99 lx
5%	11,6 lx
10%	23,3 lx
30%	69,9 lx
50%	116 lx

Conditions:

Number of c-planes: 2

Lux at center: 233 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:

1147 lm

Peak candela output:

4974 cd

Light quality:

CRI: 94,1

Color temperature:

4088 K

PRODUCT NAME:
SMARTBATPLUSG2

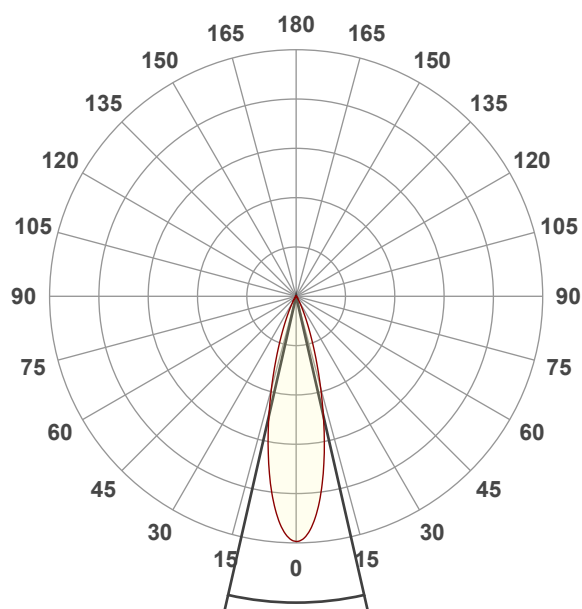
MEASUREMENT CONDITIONS:

Beam angle:
20° Filter

Target:
4000K Cal.On.

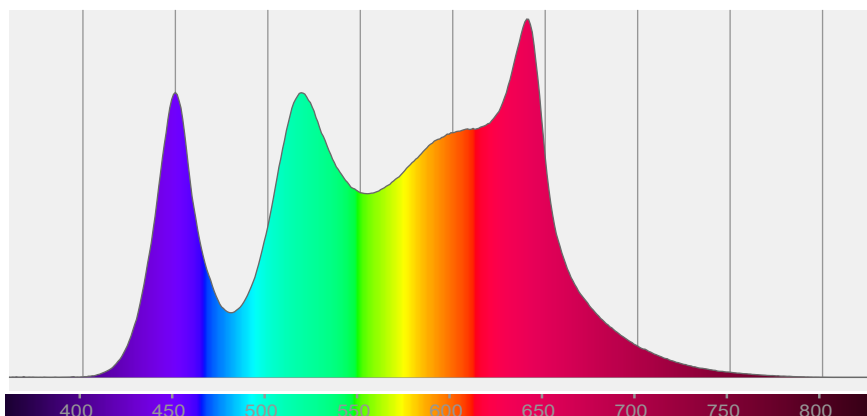
Operator:
Paolo Carvone

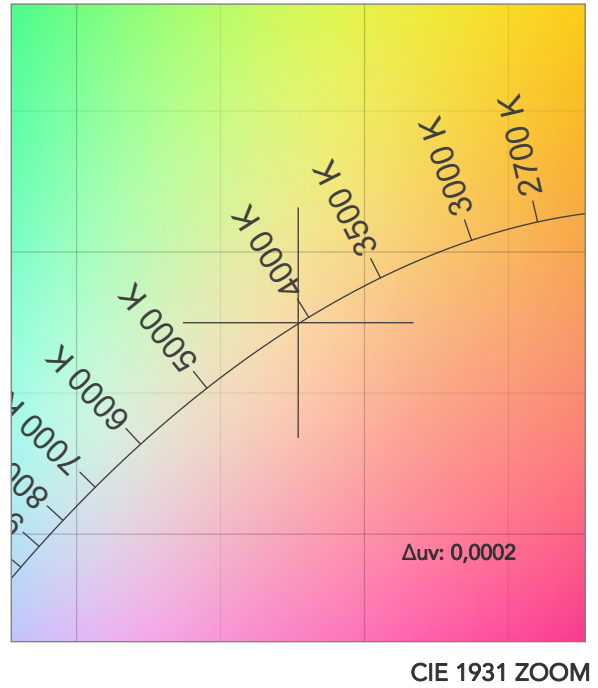
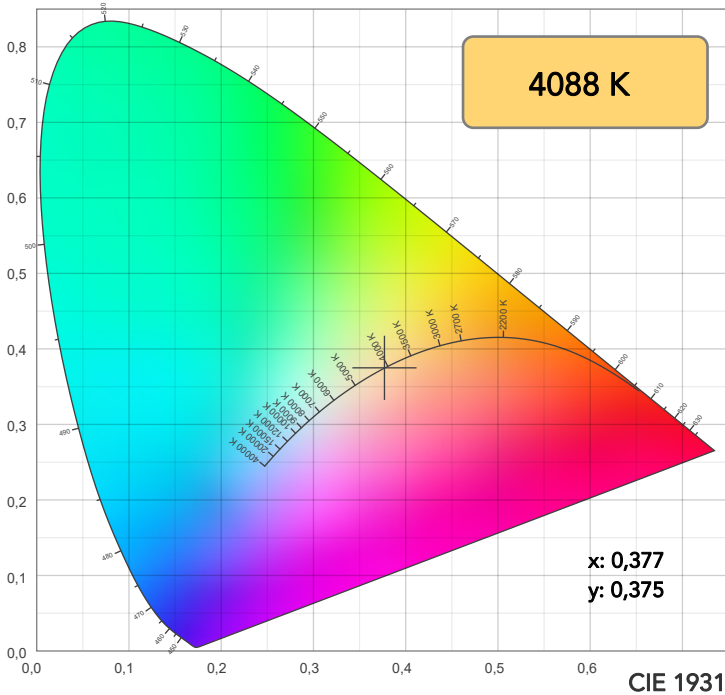
Date and time:
13/06/2022 15:13:58



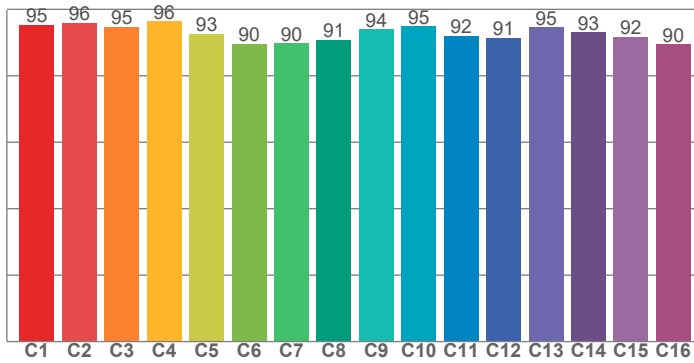
Beam angle 50%: 25,7°
Field angle 10%: 47,1°
Cut off angle 2.5%: 61,4°

Spectra

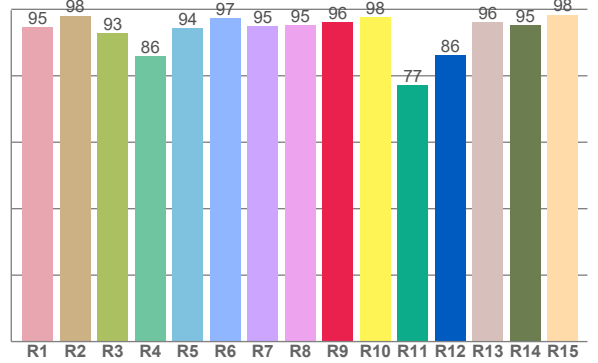




TM30: 93,2



CRI: 94,1 (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
94,6	98,1	92,7	85,9	94,3	97,4	94,8	95,2	96,1	97,6	77,1	86,1	96,2	95,1	98,4

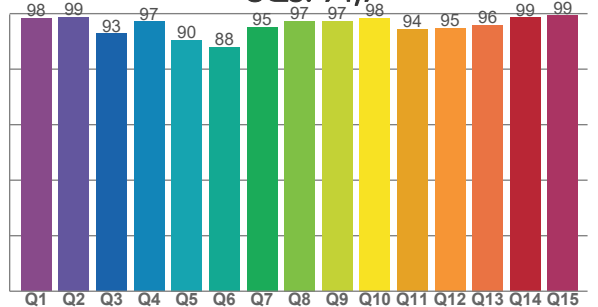
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,3	96,0	94,7	96,4	92,6	89,6	89,7	90,9	93,9	94,8	92,1	91,5	94,5	93,0	91,7	89,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,3	98,8	92,8	97,2	90,5	87,8	95,2	97,3	97,2	98,4	94,5	94,8	96,0	98,6	99,4

CQS: 94,7



COLOR PARAMETERS

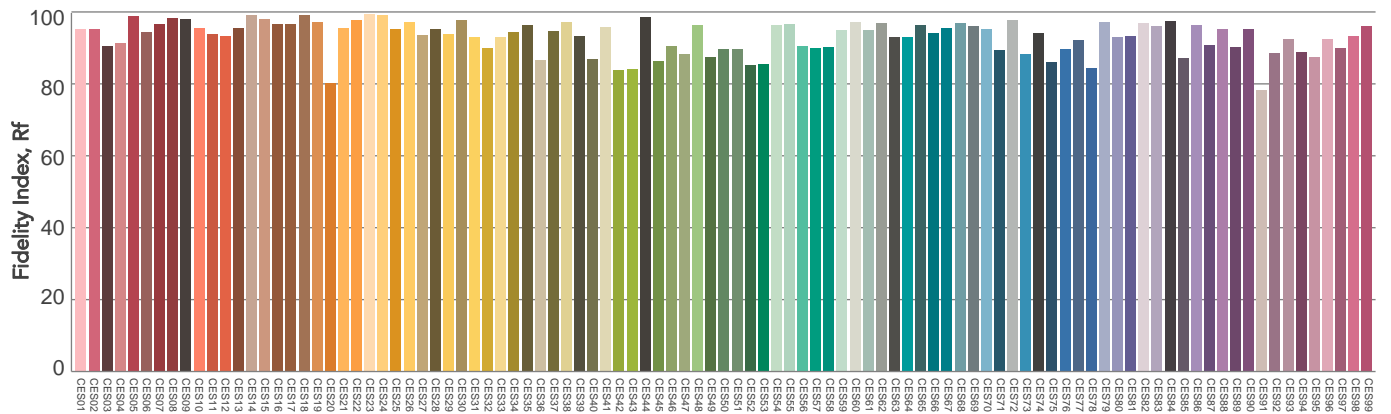
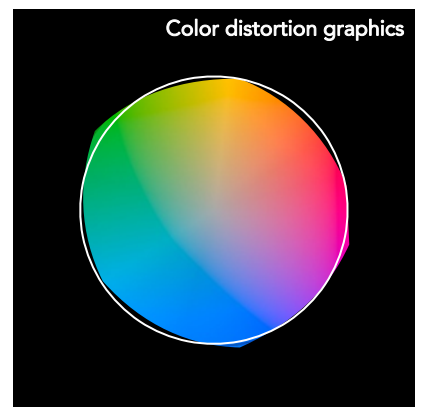
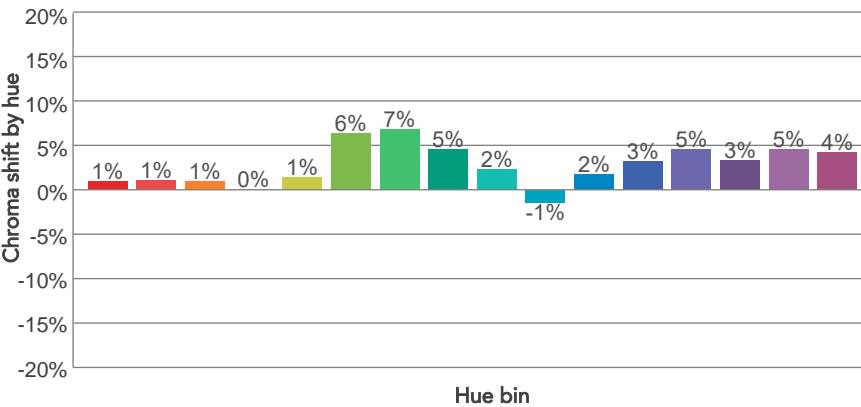
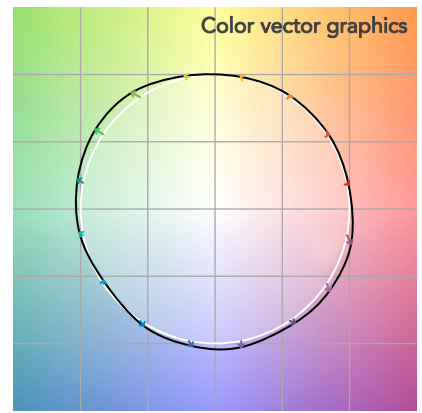
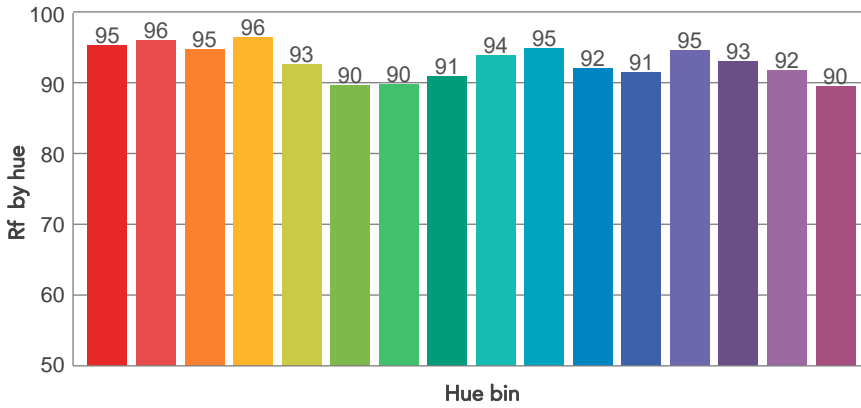
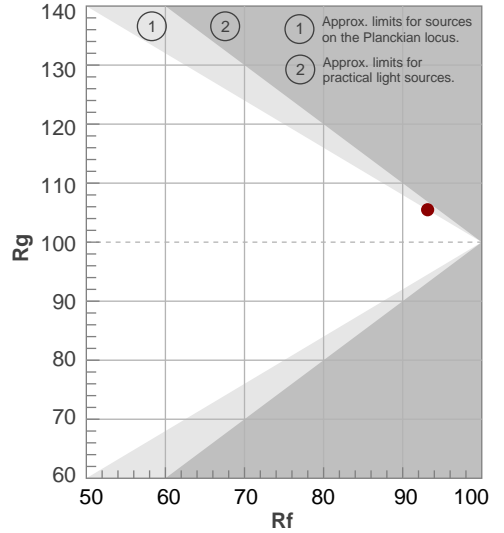
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4088 K	94,1	96,1	93,2	105,5	94,7	84	0,377	0,375	0,0002

TM30 DETAILS

Rf 93,2
Fidelity index Rf

Rg 105,5
Gammut index

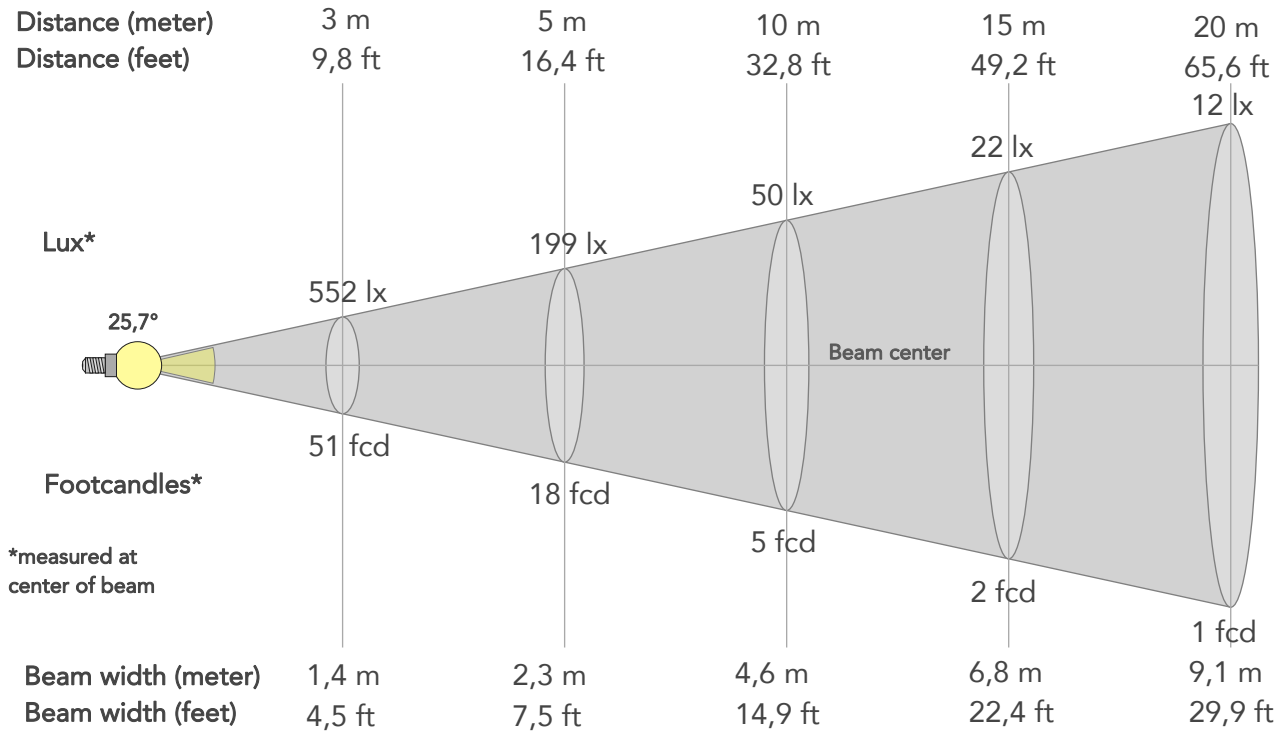
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	95	1%	1%
4	96	0%	0%
5	93	1%	3%
6	90	6%	4%
7	90	7%	0%
8	91	5%	-2%
9	94	2%	-2%
10	95	-1%	-2%
11	92	2%	4%
12	91	3%	3%
13	95	5%	-1%
14	93	3%	2%
15	92	5%	-3%
16	90	4%	-5%



BEAM DETAILS



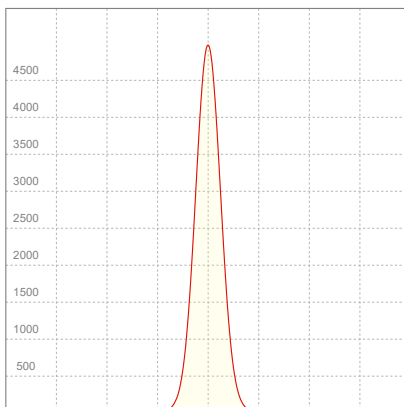
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,7°	47,1°	61,4°	100,0%	99,9%



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	4967lx	1242lx	552lx	310lx	199lx	88lx	50lx	22lx	12lx	8lx	6lx	3lx	2lx
Footcand.	461fcd	115fcd	51fcd	29fcd	18fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,6m	6,8m	9,1m	11,4m	13,7m	18,2m	22,8m
Beam wid.	1,5ft	3ft	4,5ft	6ft	7,5ft	11,2ft	14,9ft	22,4ft	29,9ft	37,4ft	44,8ft	59,8ft	74,7ft

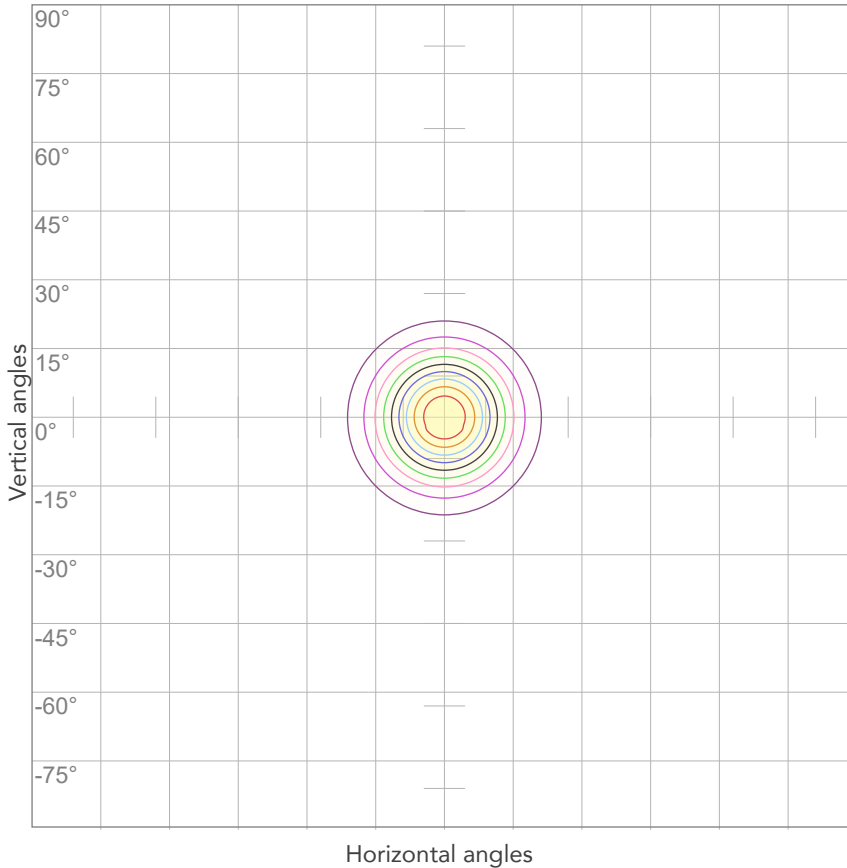
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,177A	36,3W	32lm/W

ISO CANDELA DIAGRAM



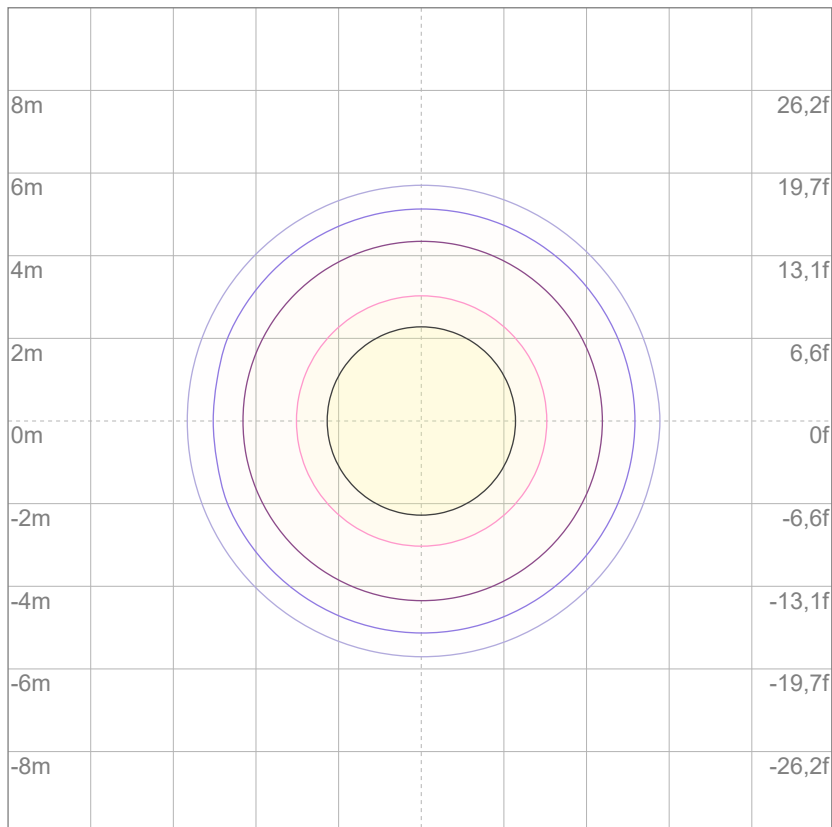
10%	497 cd
20%	993 cd
30%	1490 cd
40%	1987 cd
50%	2484 cd
60%	2980 cd
70%	3477 cd
80%	3974 cd

Conditions:

Number of c-planes: 2

Candela at center: 4967 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,49 lx
5%	2,48 lx
10%	4,97 lx
30%	14,9 lx
50%	24,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 49,7 lx

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



Total lumen output:

1192 lm

Peak candela output:

1855 cd

Light quality:

CRI: 94,0

Color temperature:

4084 K

PRODUCT NAME:
SMARTBATPLUSG2

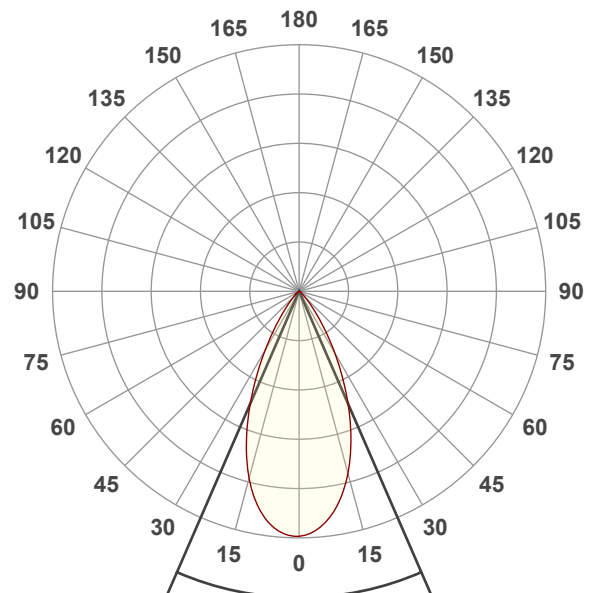
MEASUREMENT CONDITIONS:

Beam angle:
40° Filter

Target:
4000K Cal.On.

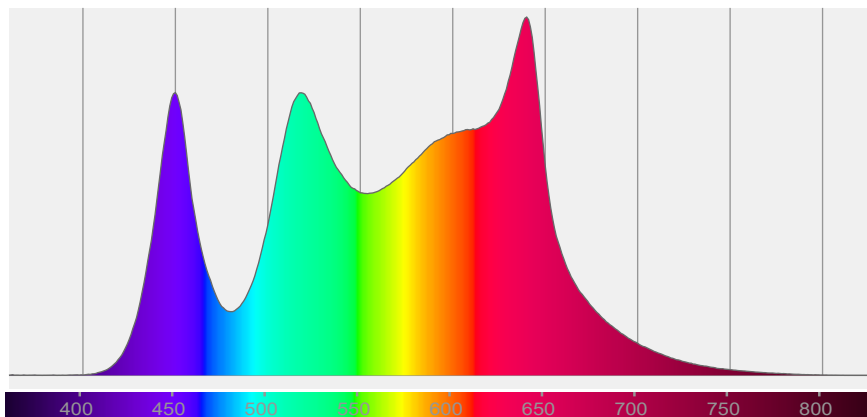
Operator:
Paolo Carvone

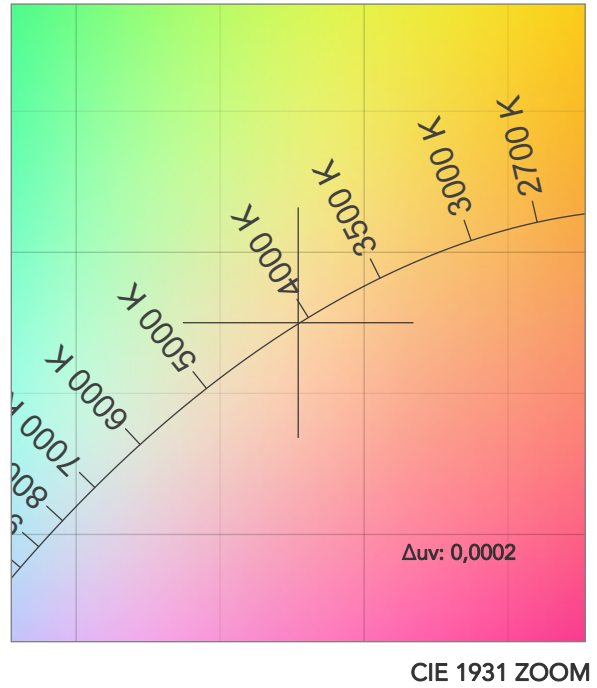
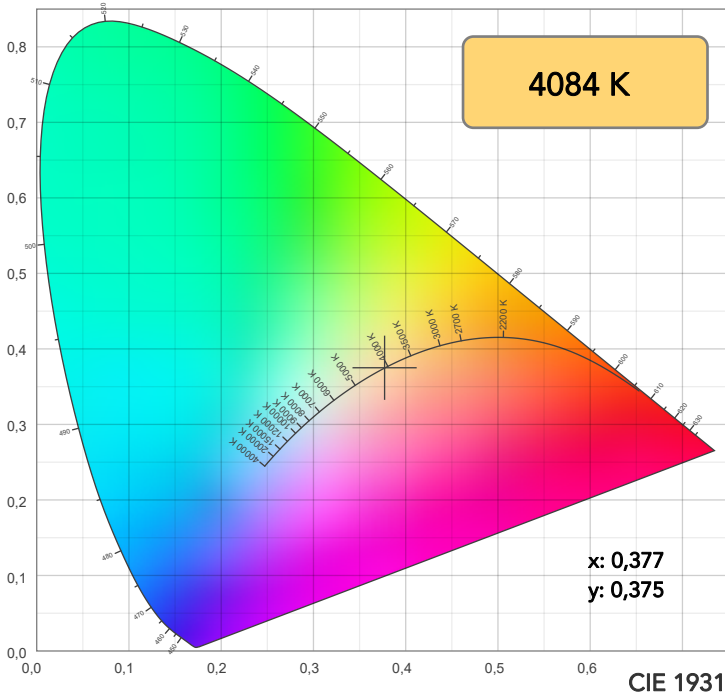
Date and time:
13/06/2022 14:52:07



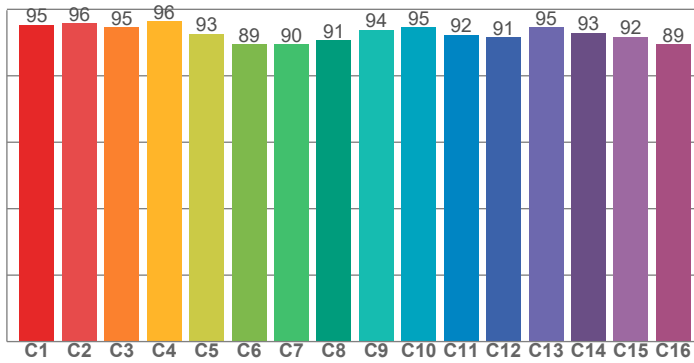
Beam angle 50%: 47°
Field angle 10%: 76,1°
Cut off angle 2.5%: 93,1°

Spectra

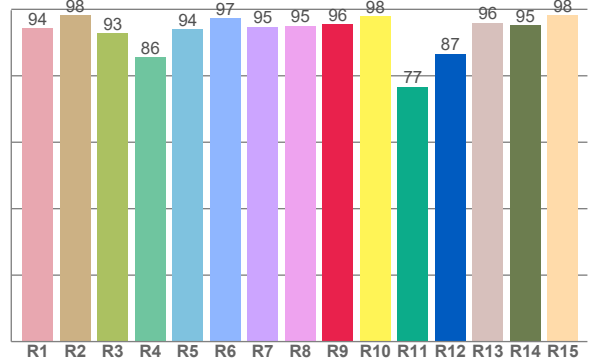




TM30: 93,1



CRI: 94,0 (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
94,4	98,2	92,8	85,6	94,0	97,3	94,8	95,0	95,6	97,9	76,7	86,6	96,0	95,2	98,2

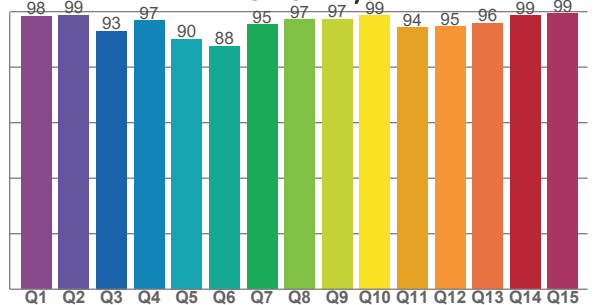
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	95,8	94,6	96,3	92,6	89,5	89,5	90,7	93,8	94,6	92,3	91,5	94,5	93,0	91,7	89,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,3	98,8	93,0	96,8	90,1	87,6	95,3	97,1	97,3	98,5	94,2	94,6	95,8	98,6	99,3

CQS: 94,6



COLOR PARAMETERS

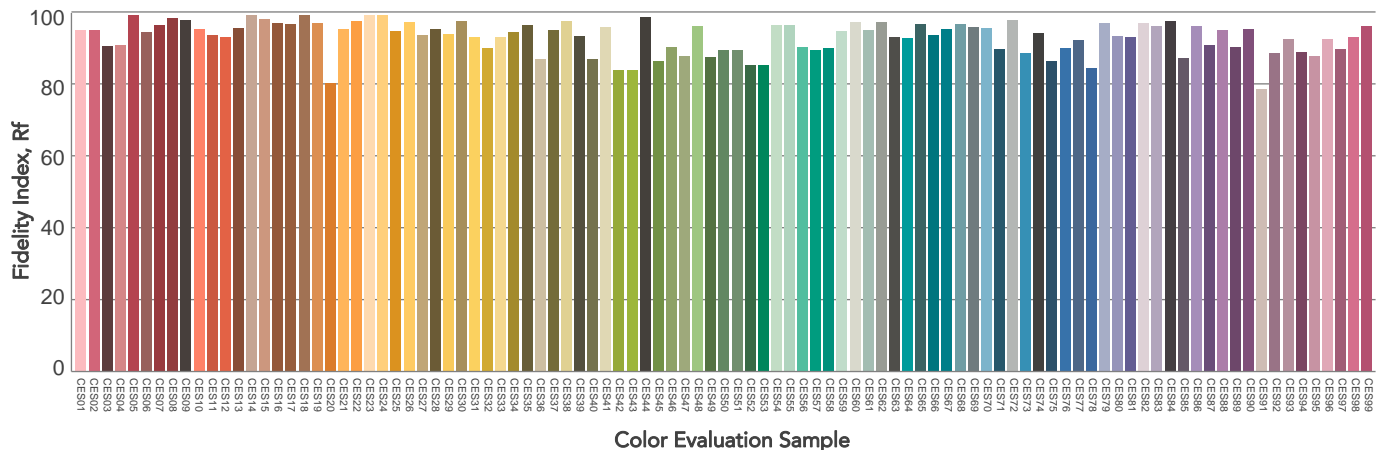
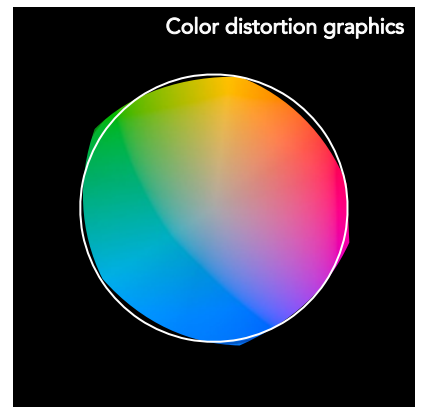
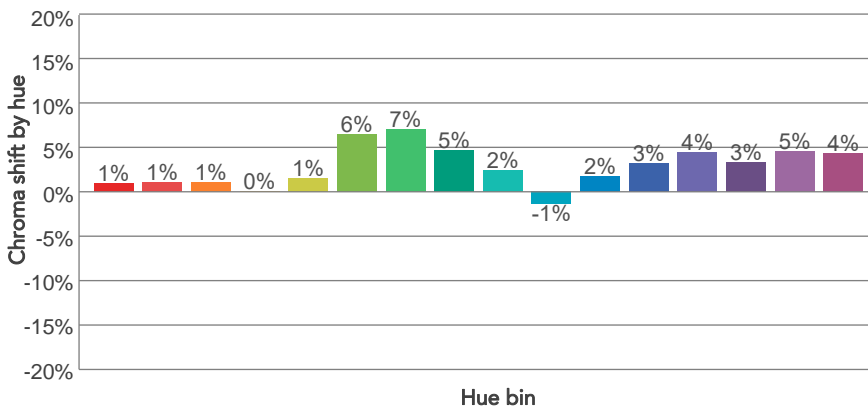
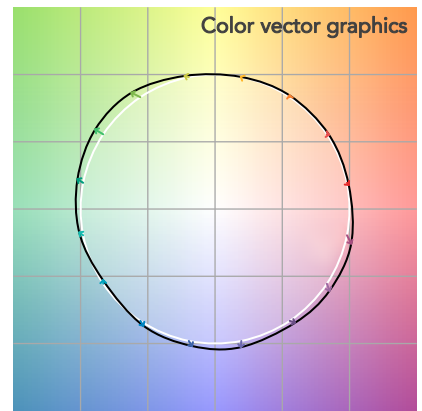
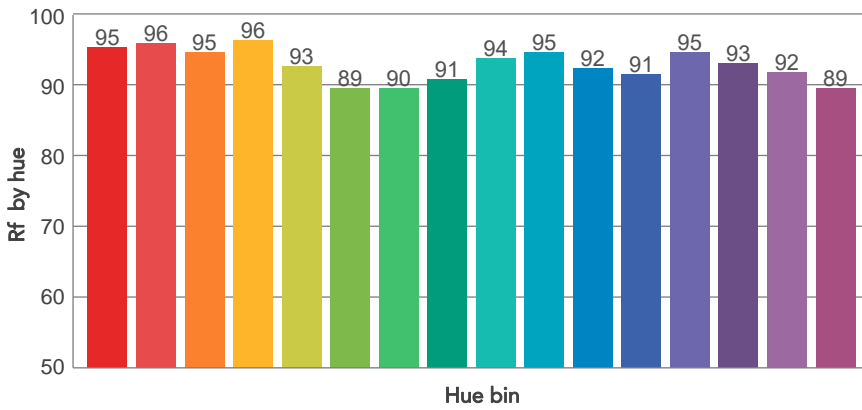
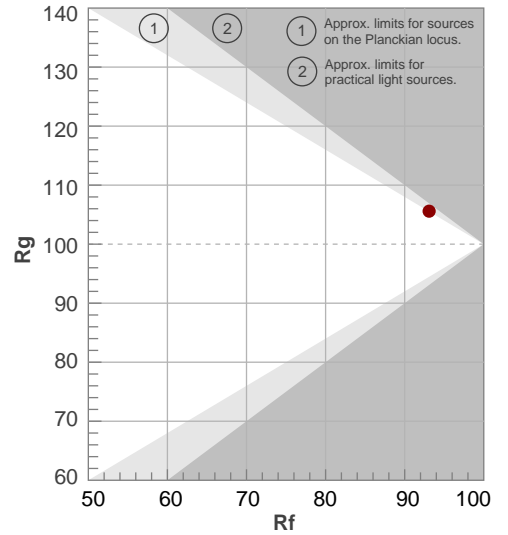
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4084 K	94,0	95,6	93,1	105,6	94,6	83	0,377	0,375	0,0002

TM30 DETAILS

Rf 93,1
Fidelity index Rf

Rg 105,6
Gammut index

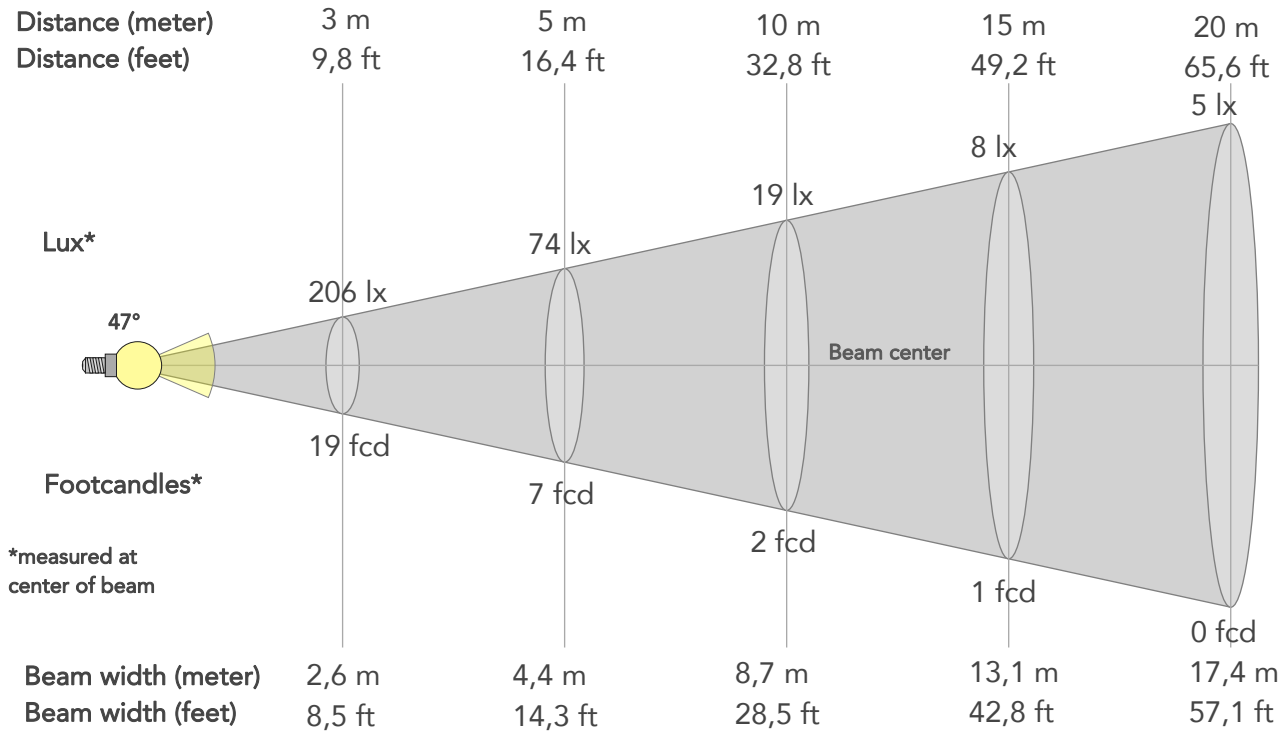
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	95	1%	1%
4	96	0%	0%
5	93	1%	3%
6	89	6%	4%
7	90	7%	0%
8	91	5%	-2%
9	94	2%	-3%
10	95	-1%	-2%
11	92	2%	4%
12	91	3%	3%
13	95	4%	-1%
14	93	3%	2%
15	92	5%	-3%
16	89	4%	-5%



BEAM DETAILS



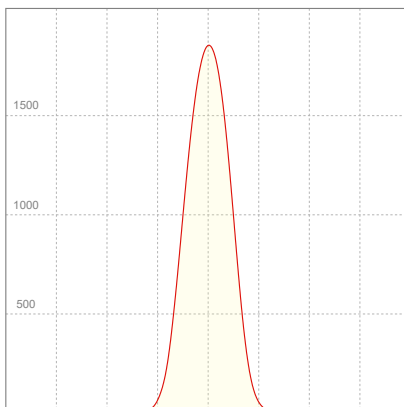
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47°	76,1°	93,1°	99,8%	97,5%



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	1852lx	463lx	206lx	116lx	74lx	33lx	19lx	8lx	5lx	3lx	2lx	1lx	1lx
Footcand.	172fcd	43fcd	19fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,4m	6,5m	8,7m	13,1m	17,4m	21,8m	26,1m	34,8m	43,5m
Beam wid.	2,9ft	5,7ft	8,5ft	11,4ft	14,3ft	21,4ft	28,5ft	42,8ft	57,1ft	71,3ft	85,6ft	114,1ft	142,7ft

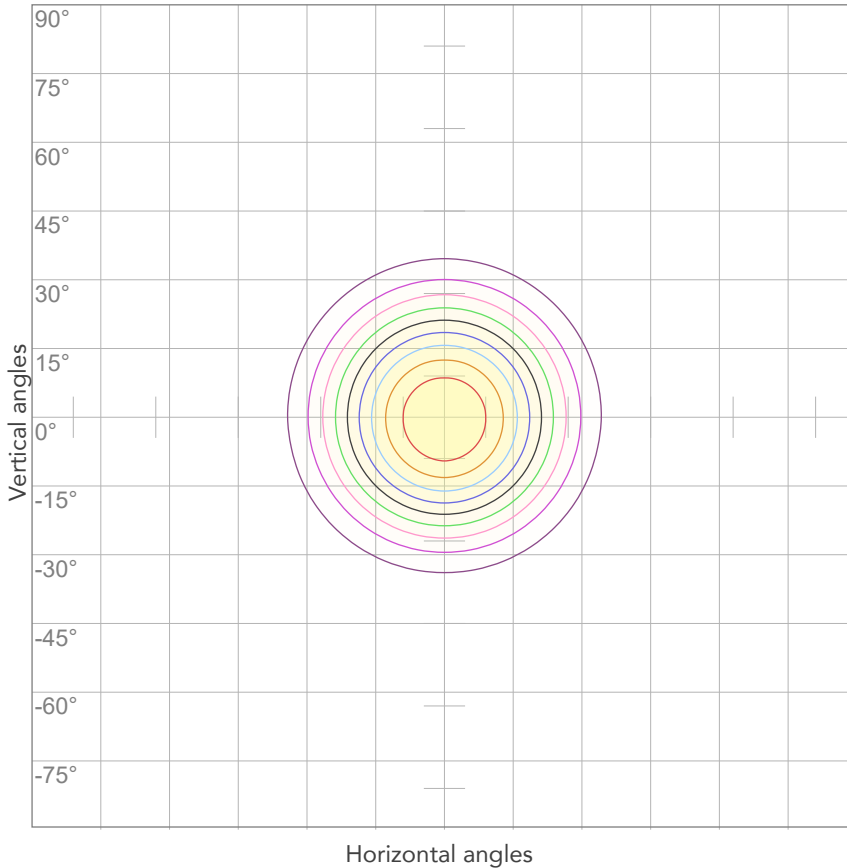
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,176A	36,5W	33lm/W

ISO CANDELA DIAGRAM



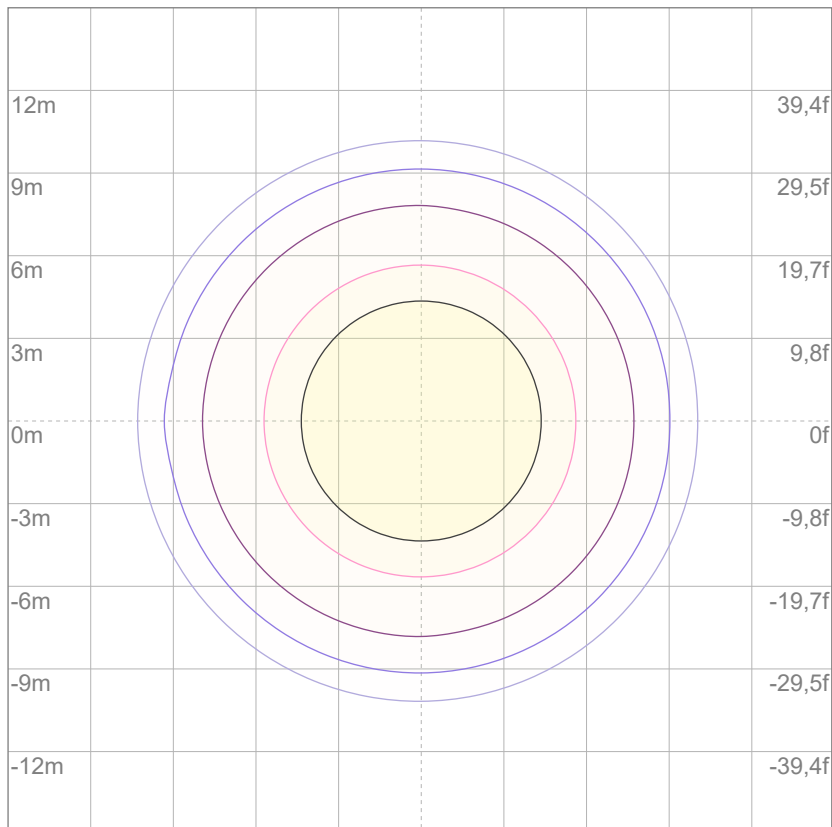
10%	185 cd
20%	370 cd
30%	556 cd
40%	741 cd
50%	926 cd
60%	1111 cd
70%	1296 cd
80%	1482 cd

Conditions:

Number of c-planes: 2

Candela at center: 1852 cd

ISO LUX DIAGRAM



3%	0,556 lx
5%	0,926 lx
10%	1,85 lx
30%	5,56 lx
50%	9,26 lx

Conditions:

Number of c-planes: 2

Lux at center: 18,5 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

1165 lm

Peak candela output:

1392 cd

Light quality:

CRI: 93,8

Color temperature:

4068 K

PRODUCT NAME:
SMARTBATPLUSG2

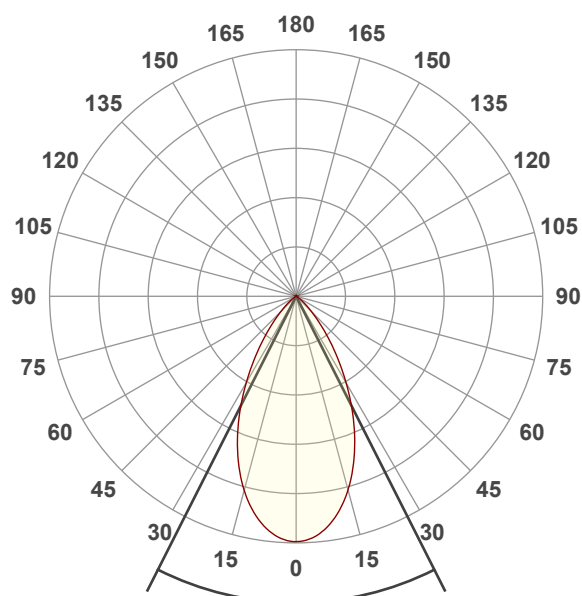
MEASURAMENT CONDITIONS:

Beam angle:
60° Filter

Target:
4000K Cal.On.

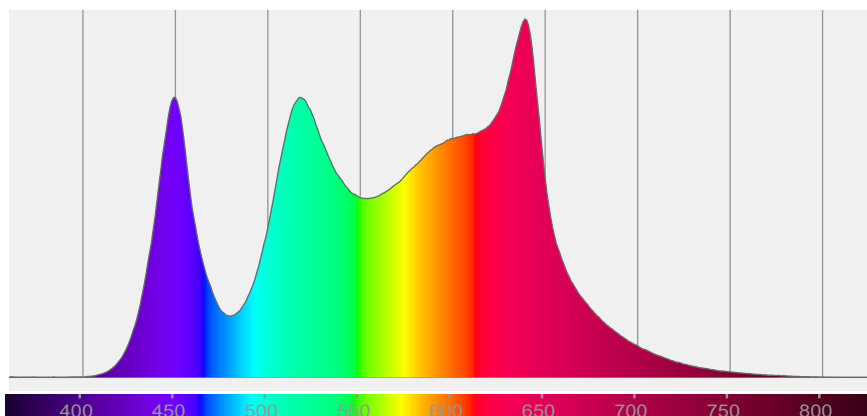
Operator:
Paolo Carvone

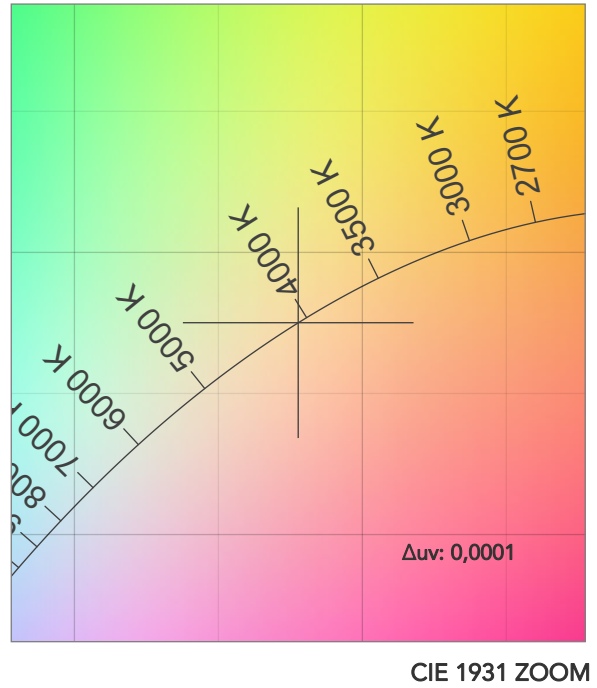
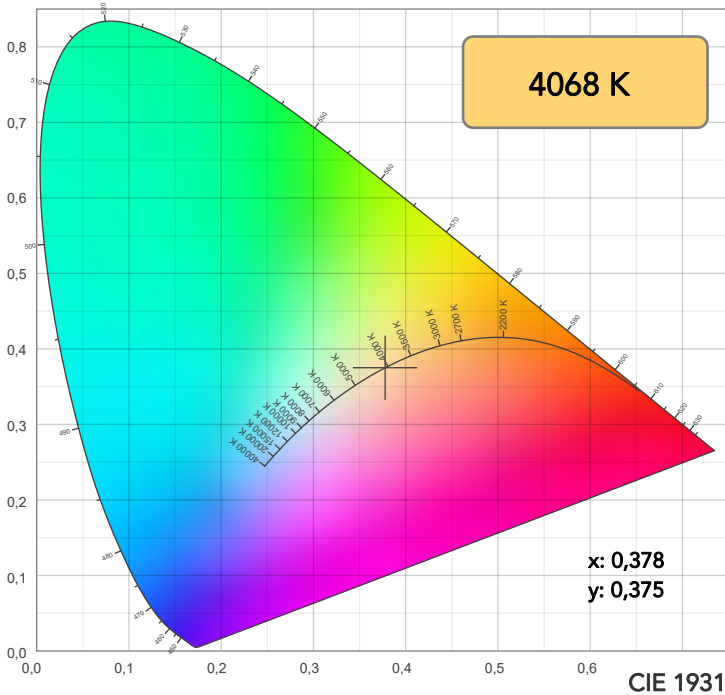
Date and time:
13/06/2022 14:30:49



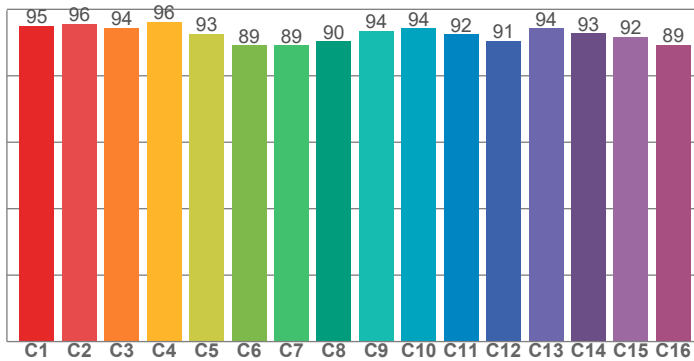
Beam angle 50%: 53,6°
Field angle 10%: 88,4°
Cut off angle 2.5%: 106,9°

Spectra

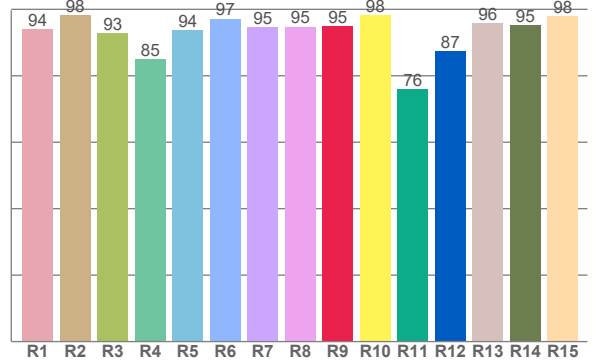




TM30: 92,9



CRI: 93,8 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,0	98,3	92,8	85,1	93,6	97,1	94,6	94,7	95,0	98,2	75,9	87,4	95,7	95,2	98,0

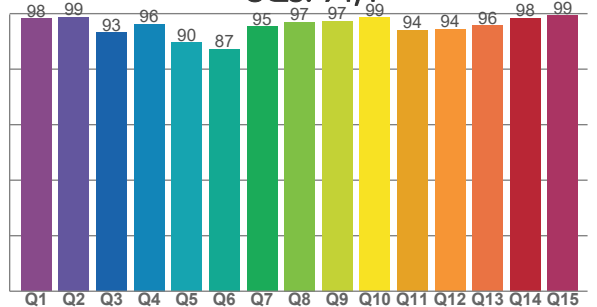
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,1	95,6	94,5	96,2	92,6	89,2	89,1	90,4	93,5	94,2	92,5	90,6	94,2	92,8	91,7	89,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,2	98,8	93,2	96,3	89,6	87,2	95,3	97,0	97,3	98,6	94,1	94,5	95,7	98,5	99,3

CQS: 94,4



COLOR PARAMETERS

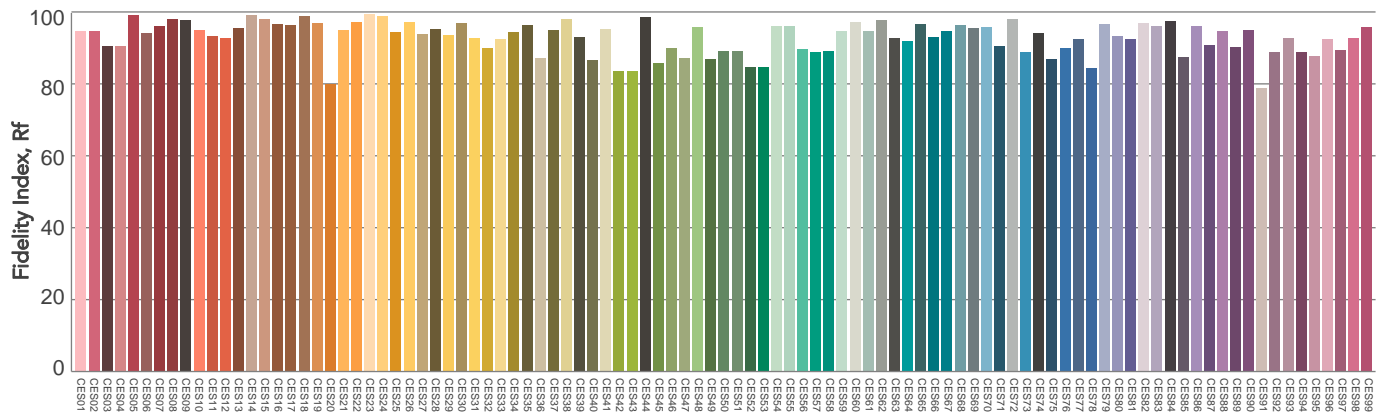
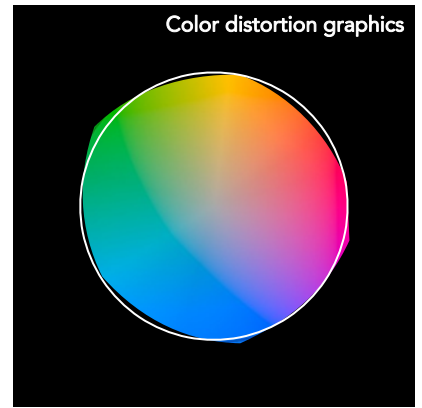
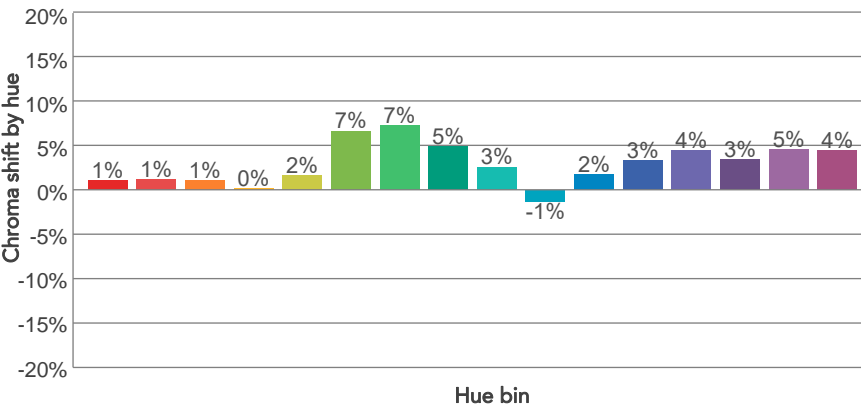
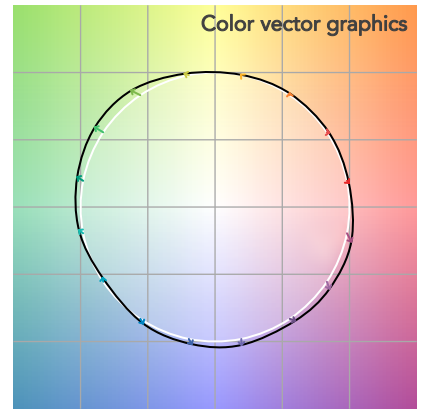
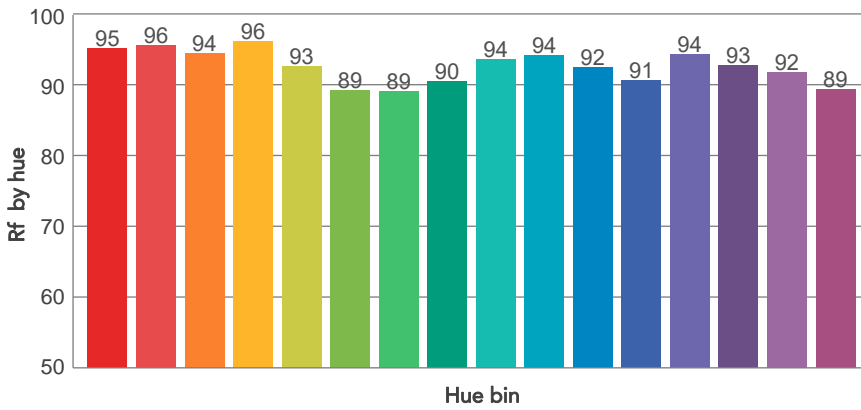
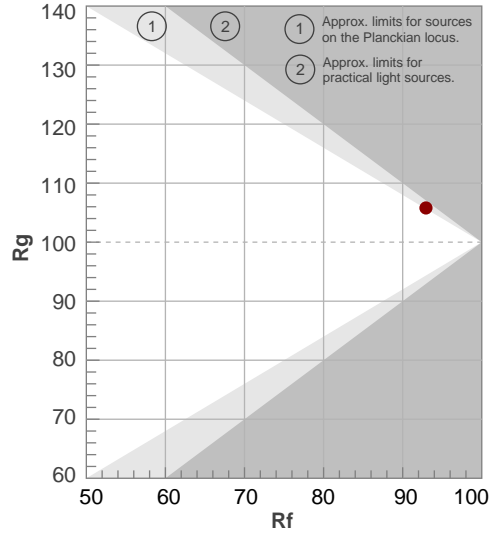
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4068 K	93,8	95,0	92,9	105,8	94,4	82	0,378	0,375	0,0001

TM30 DETAILS

Rf 92,9
Fidelity index Rf

Rg 105,8
Gammut index

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

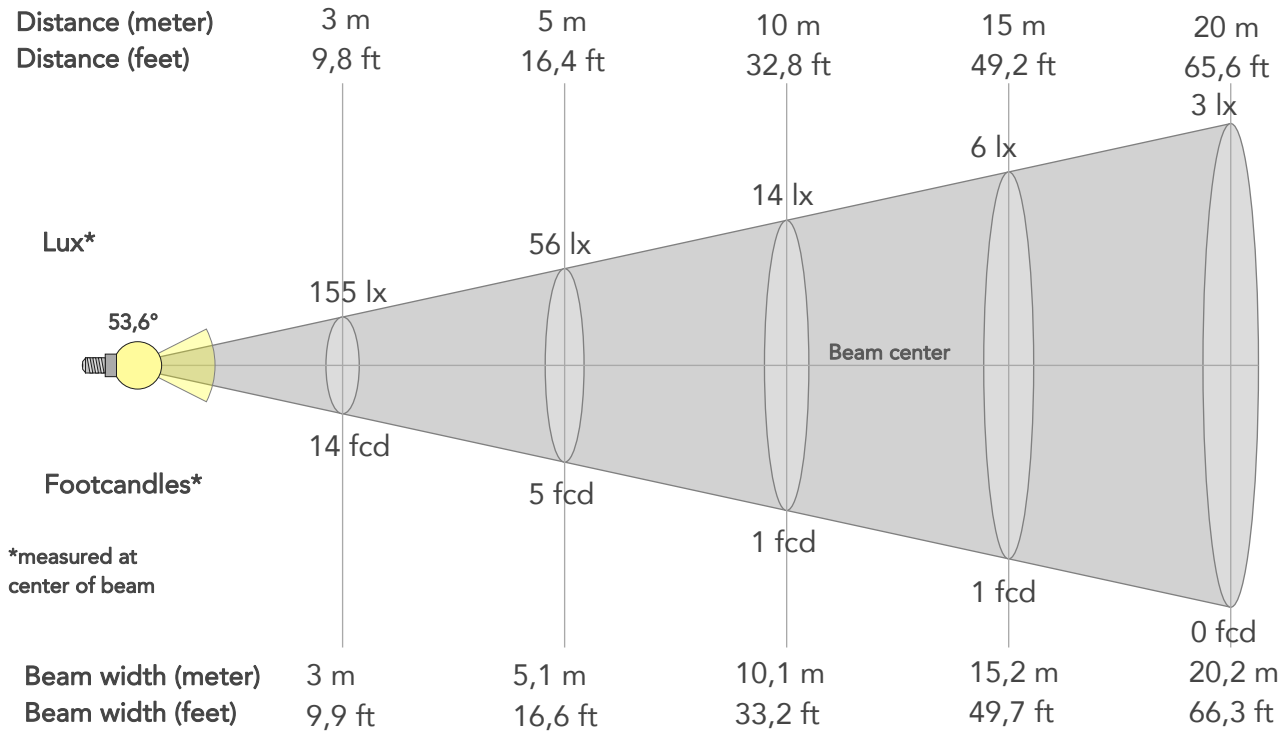


Color Evaluation Sample

BEAM DETAILS



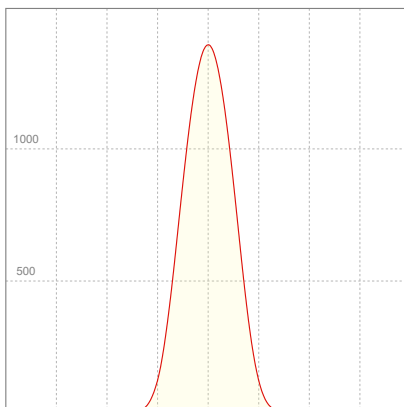
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,6°	88,4°	106,9°	99,5%	94,2%



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	1391lx	348lx	155lx	87lx	56lx	25lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	129fcd	32fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5,1m	7,6m	10,1m	15,2m	20,2m	25,3m	30,3m	40,4m	50,5m
Beam wid.	3,3ft	6,7ft	9,9ft	13,2ft	16,6ft	24,9ft	33,2ft	49,7ft	66,3ft	82,9ft	99,5ft	132,6ft	165,8ft

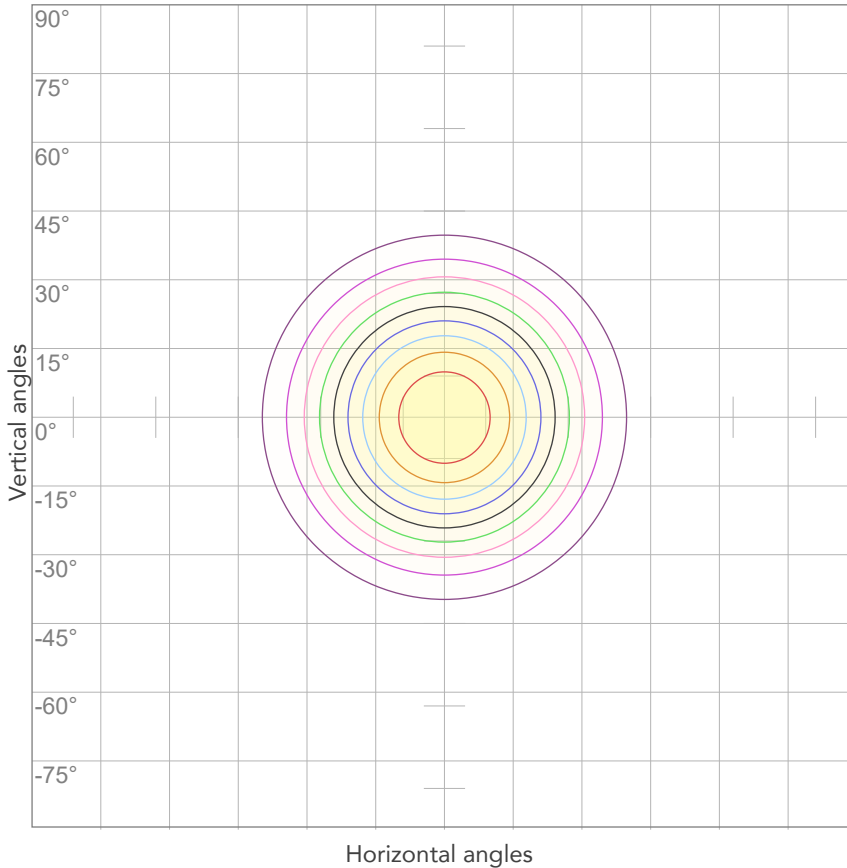
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,178A	36,7W	32lm/W

ISO CANDELA DIAGRAM



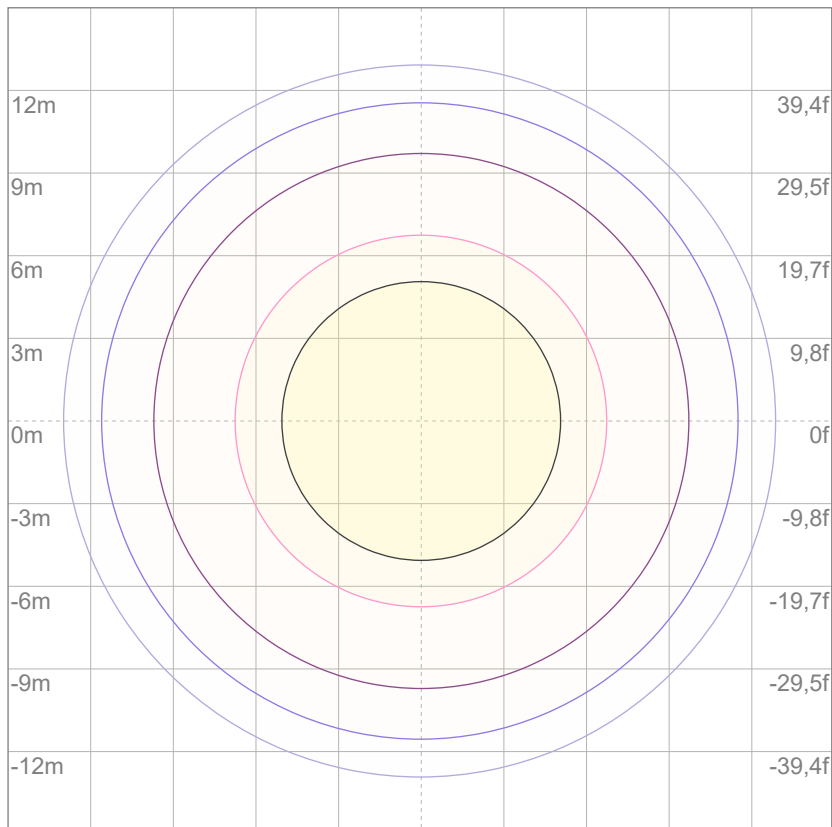
10%	139 cd
20%	278 cd
30%	417 cd
40%	556 cd
50%	696 cd
60%	835 cd
70%	974 cd
80%	1113 cd

Conditions:

Number of c-planes: 2

Candela at center: 1391 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,417 lx
5%	0,696 lx
10%	1,39 lx
30%	4,17 lx
50%	6,96 lx

Conditions:

Number of c-planes: 2

Lux at center: 13,9 lx

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



Total lumen output:

1751 lm

Peak candela output:

3233 cd

Light quality:

CRI: 94,1

Color temperature:

4082 K

PRODUCT NAME:
SMARTBATPLUSG2

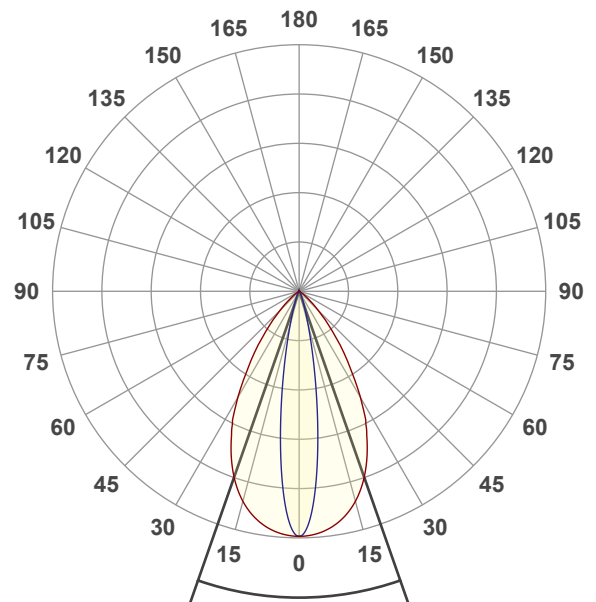
MEASUREMENT CONDITIONS:

Beam angle:
1060 Filter

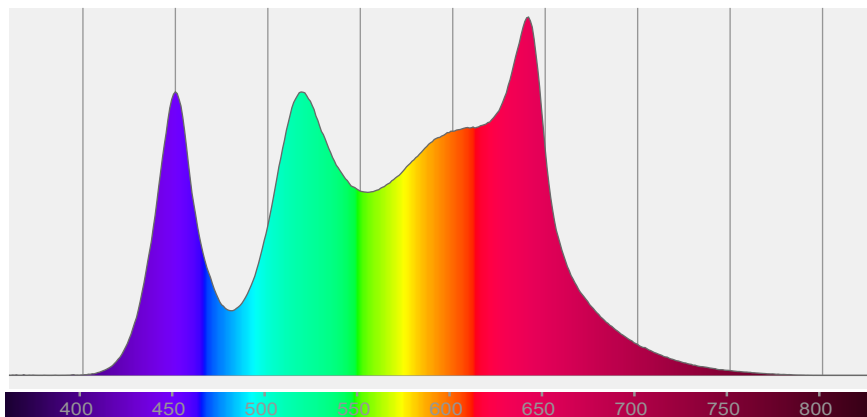
Target:
4000K On Cal.On.

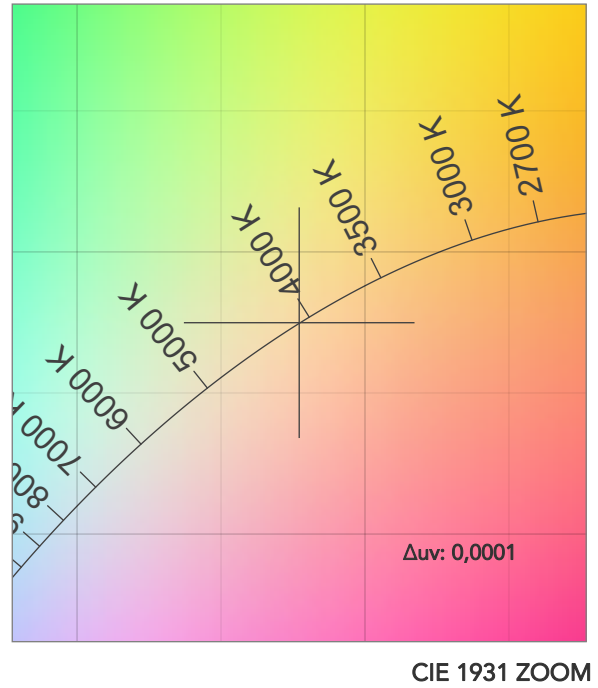
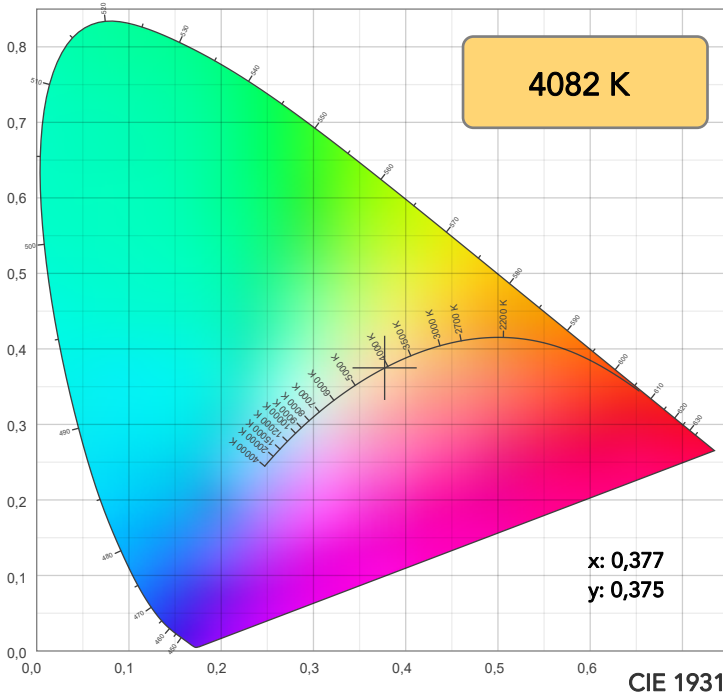
Operator:
Paolo Carvone

Date and time:
10/06/2022 14:49:04

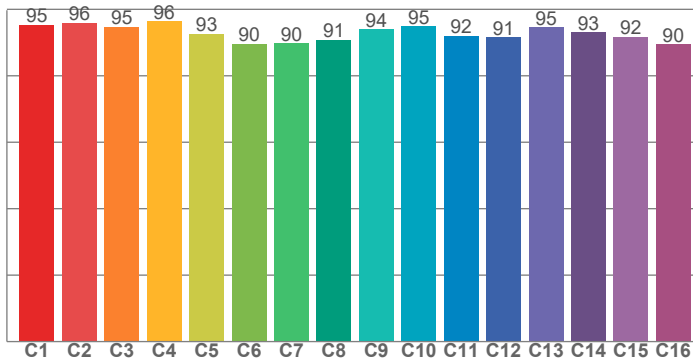


Spectra

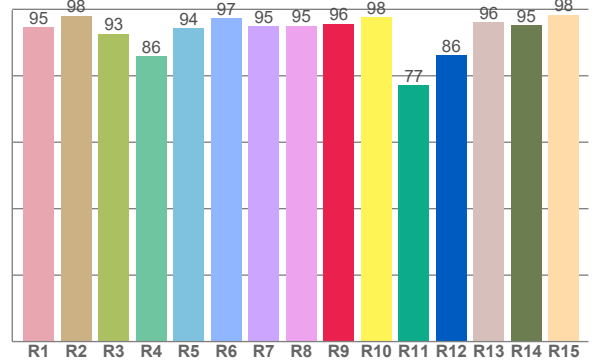




TM30: 93,2



CRI: 94,1 (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
94,5	98,1	92,7	85,9	94,3	97,4	94,8	95,1	95,6	97,6	77,1	86,1	96,1	95,1	98,3

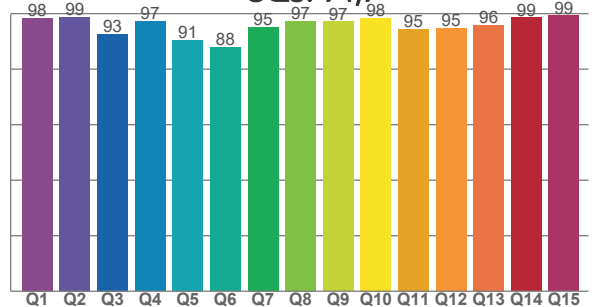
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,4	95,9	94,8	96,4	92,6	89,6	89,7	90,9	93,9	94,9	92,0	91,5	94,6	93,0	91,7	89,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,4	98,7	92,7	97,3	90,6	87,9	95,2	97,3	97,2	98,3	94,5	94,8	95,9	98,6	99,4

CQS: 94,7



COLOR PARAMETERS

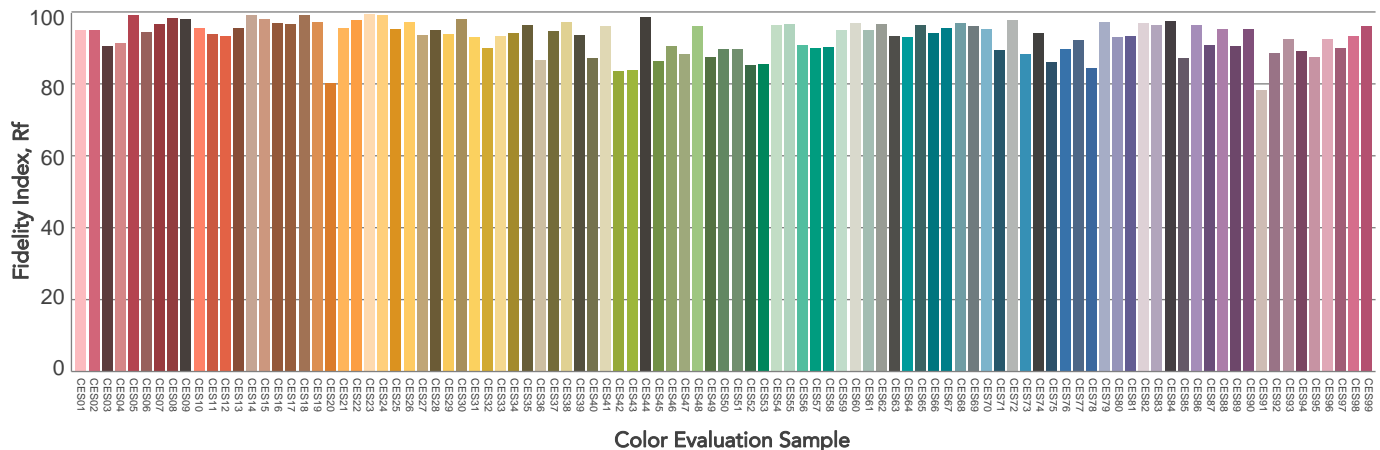
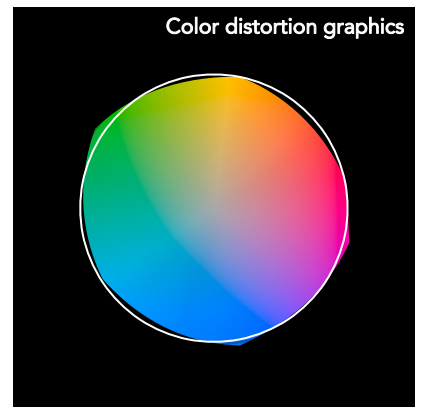
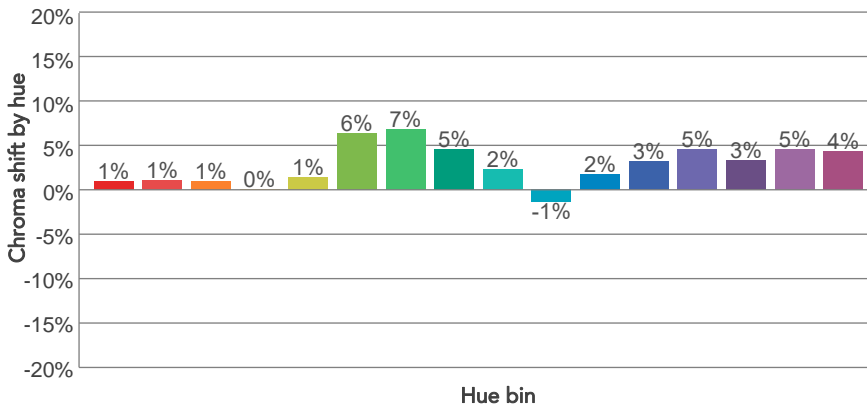
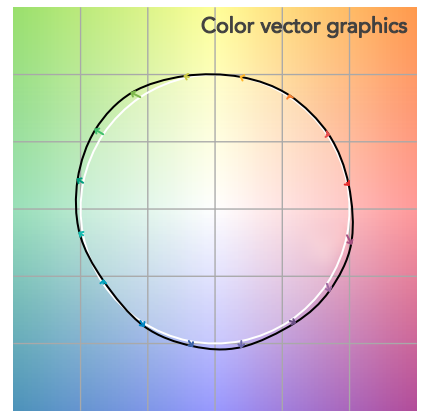
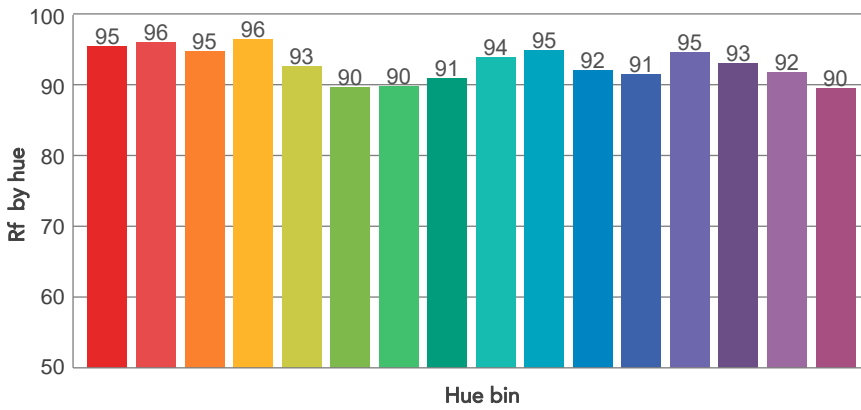
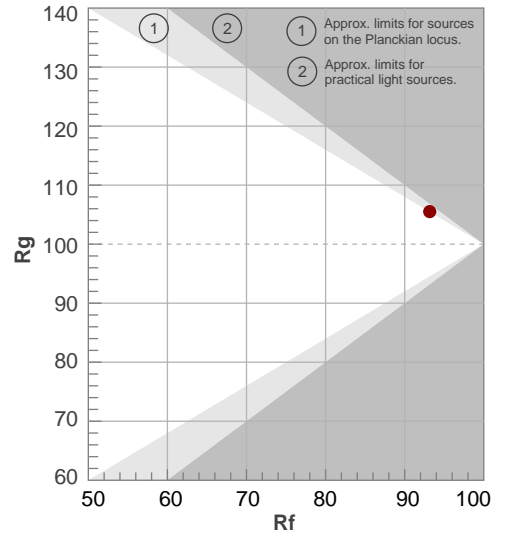
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4082 K	94,1	95,6	93,2	105,5	94,7	84	0,377	0,375	0,0001

TM30 DETAILS

Rf 93,2
Fidelity index Rf

Rg 105,5
Gammut index

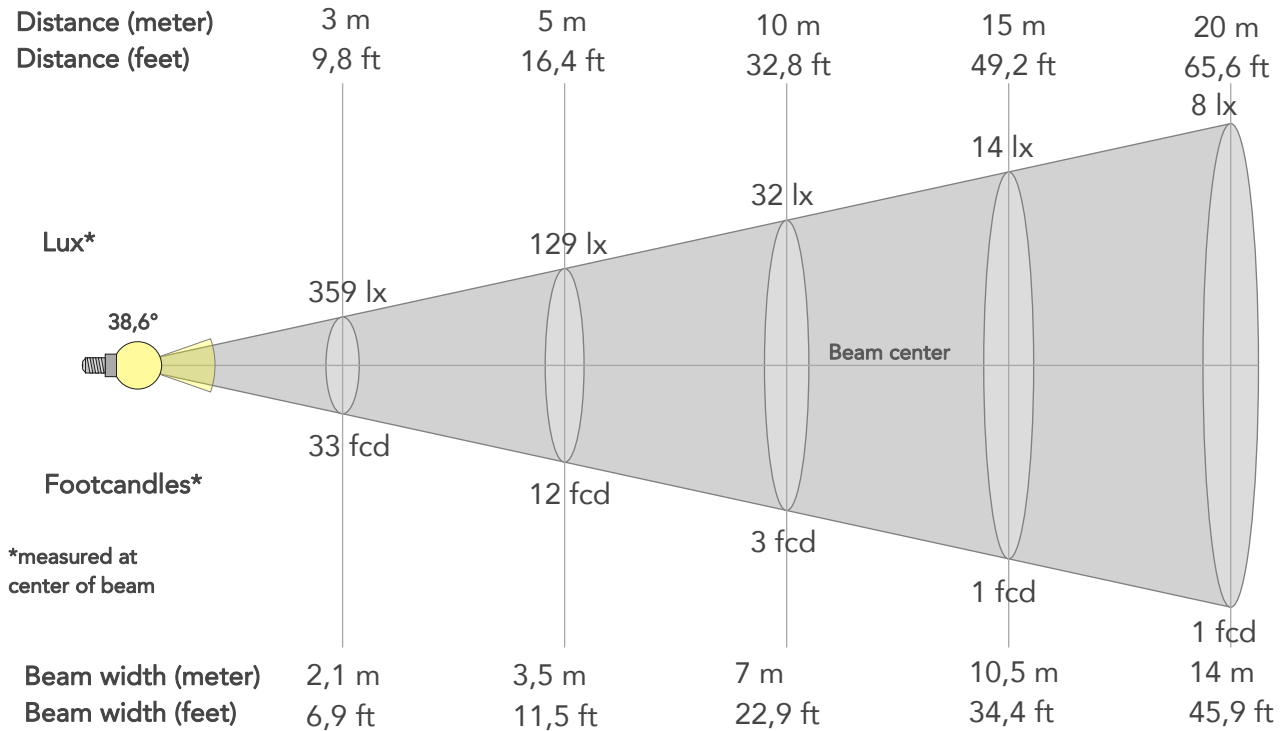
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	95	1%	1%
4	96	0%	0%
5	93	1%	3%
6	90	6%	4%
7	90	7%	0%
8	91	5%	-2%
9	94	2%	-2%
10	95	-1%	-2%
11	92	2%	4%
12	91	3%	3%
13	95	5%	-1%
14	93	3%	2%
15	92	5%	-3%
16	90	4%	-5%



BEAM DETAILS



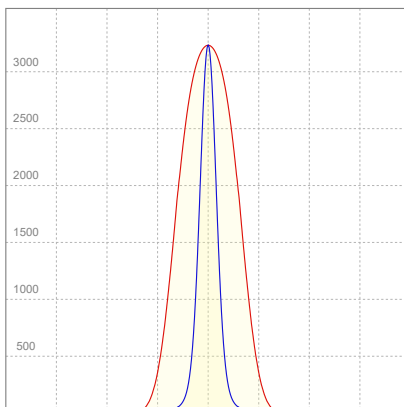
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38,6°	62,3°	78°	99,9%	95,1%



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	3231lx	808lx	359lx	202lx	129lx	57lx	32lx	14lx	8lx	5lx	4lx	2lx	1lx
Footcand.	300fcd	75fcd	33fcd	19fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,2m	7m	10,5m	14m	17,5m	21m	28m	35m
Beam wid.	2,3ft	4,6ft	6,9ft	9,2ft	11,5ft	17,2ft	22,9ft	34,4ft	45,9ft	57,4ft	68,8ft	91,8ft	114,7ft

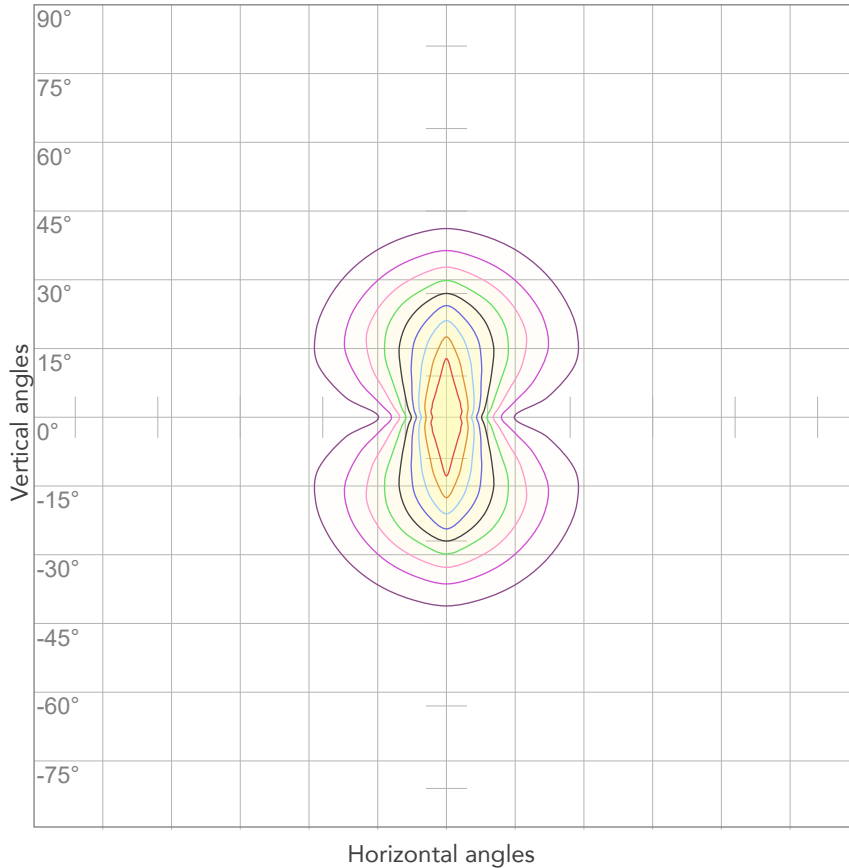
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
229V	0,174A	36,2W	48lm/W

ISO CANDELA DIAGRAM



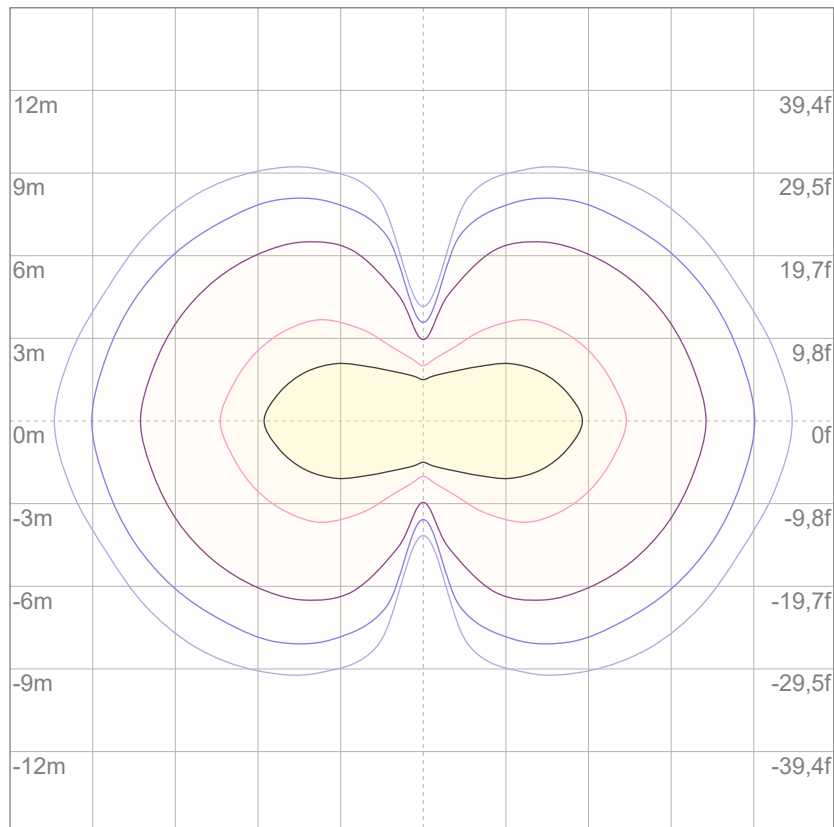
10%	323 cd
20%	646 cd
30%	969 cd
40%	1292 cd
50%	1615 cd
60%	1939 cd
70%	2262 cd
80%	2585 cd

Conditions:

Number of c-planes: 4

Candela at center: 3231 cd

ISO LUX DIAGRAM



3%	0,969 lx
5%	1,62 lx
10%	3,23 lx
30%	9,69 lx
50%	16,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 32,3 lx

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



Total lumen output:

1246 lm

Peak candela output:

25117 cd

Light quality:

CRI: 91,6

Color temperature:

5787 K

PRODUCT NAME:
SMARTBATPLUSG2

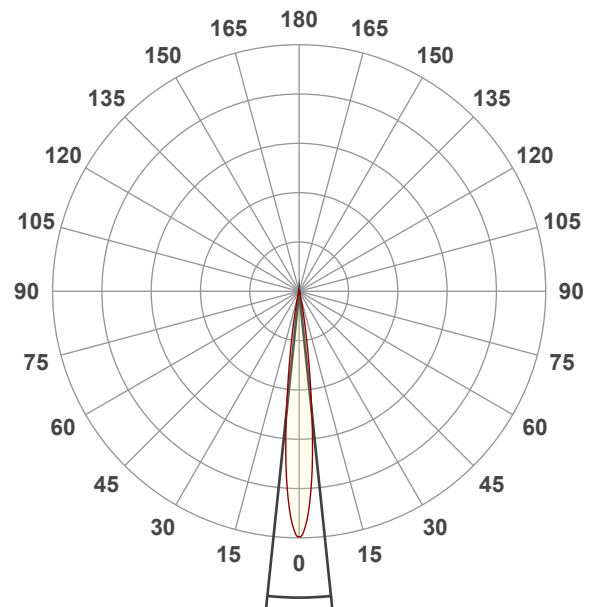
MEASUREMENT CONDITIONS:

Beam angle:
Native Optic (Without Filter)

Target:
5600K Cal.On.

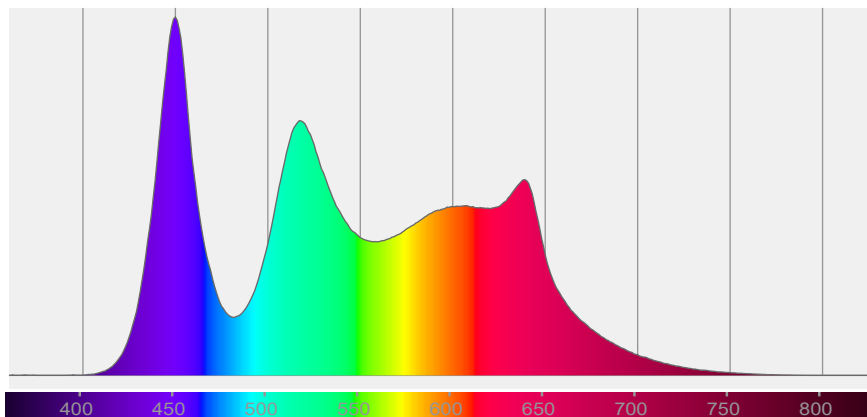
Operator:
Paolo Carvone

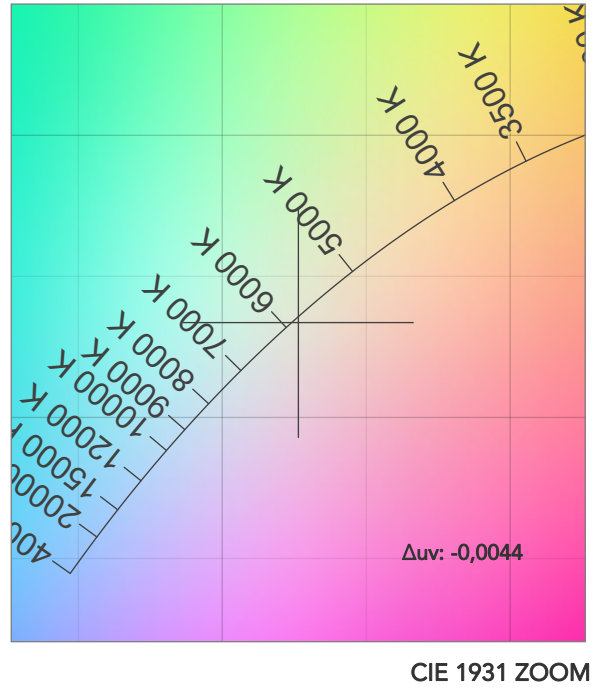
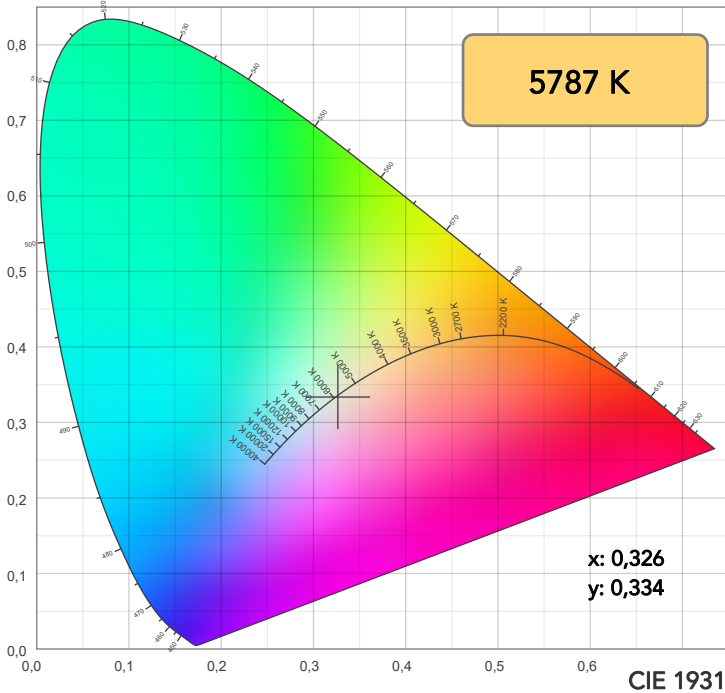
Date and time:
10/06/2022 13:03:34



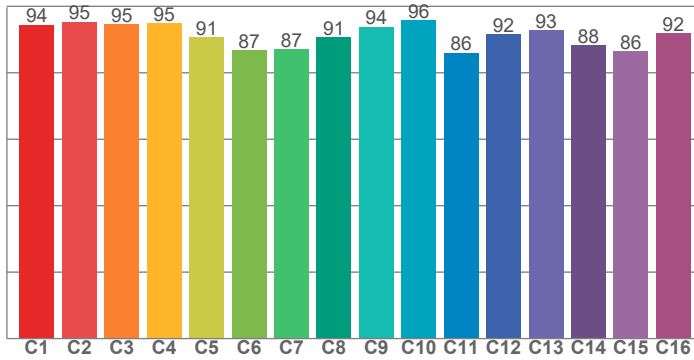
Beam angle 50%: 11,9°
Field angle 10%: 21,3°
Cut off angle 2.5%: 28°

Spectra

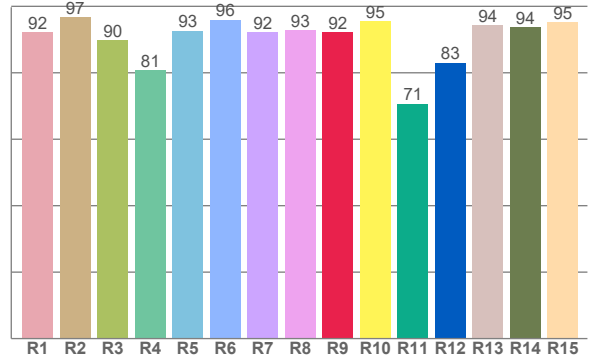




TM30: 91,2



CRI: 91,6 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,2	96,6	89,8	80,7	92,7	96,0	92,2	92,9	92,1	95,5	70,7	83,0	94,2	93,6	95,3

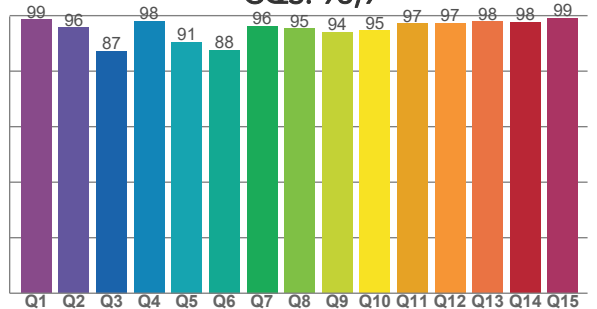
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,5	95,7	87,3	98,0	90,5	87,6	96,2	95,3	94,0	94,6	97,1	97,3	97,9	97,6	99,1

CQS: 93,9



COLOR PARAMETERS

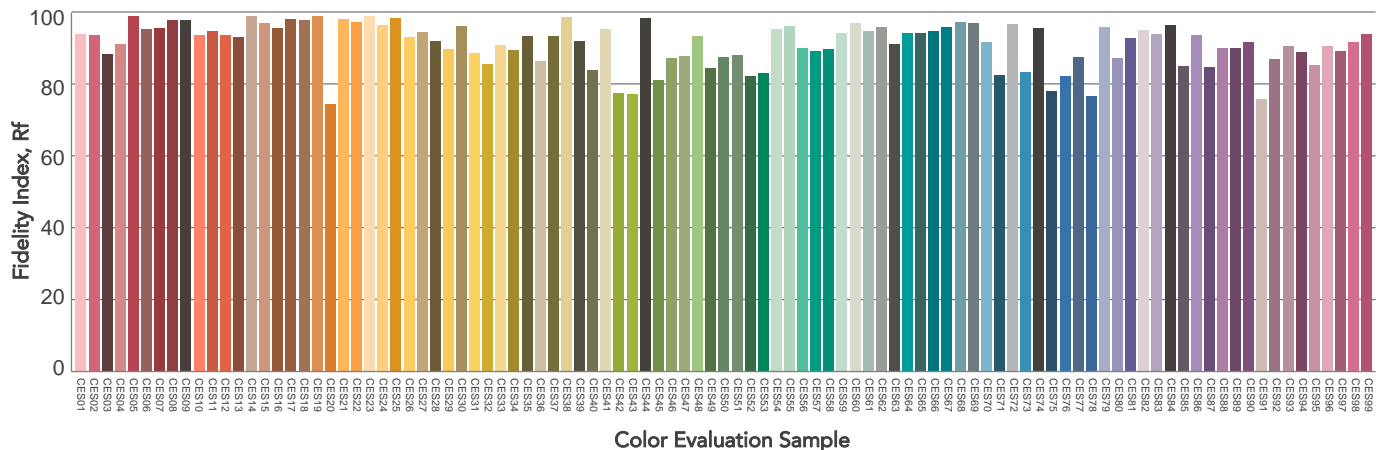
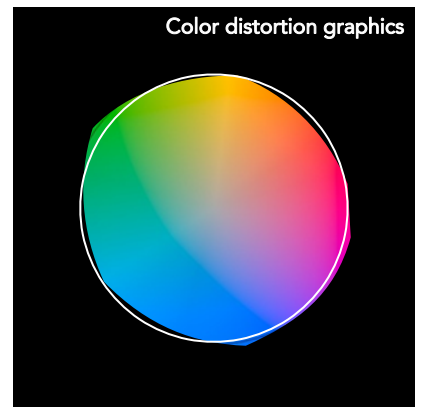
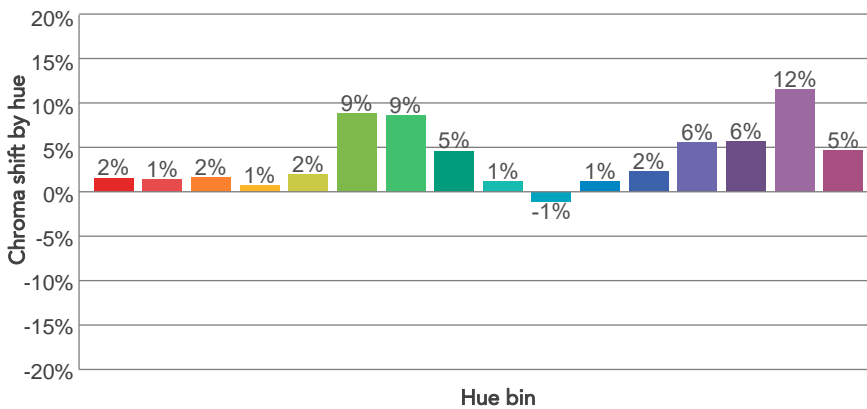
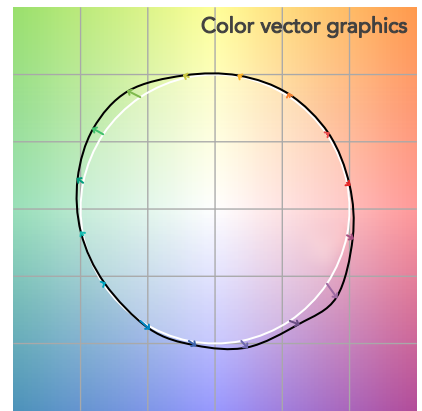
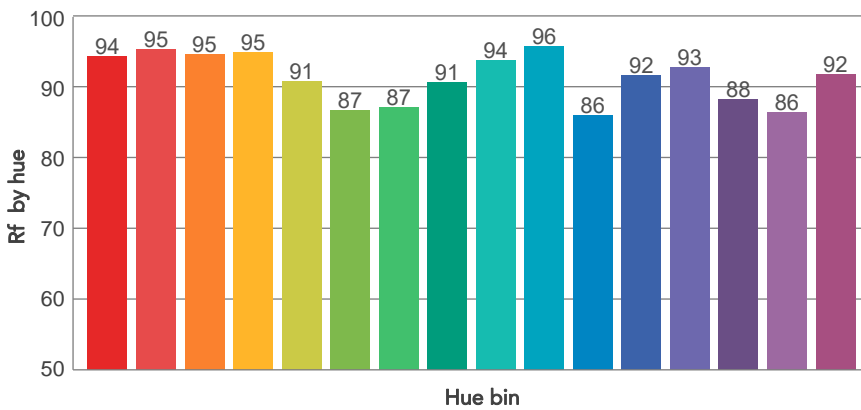
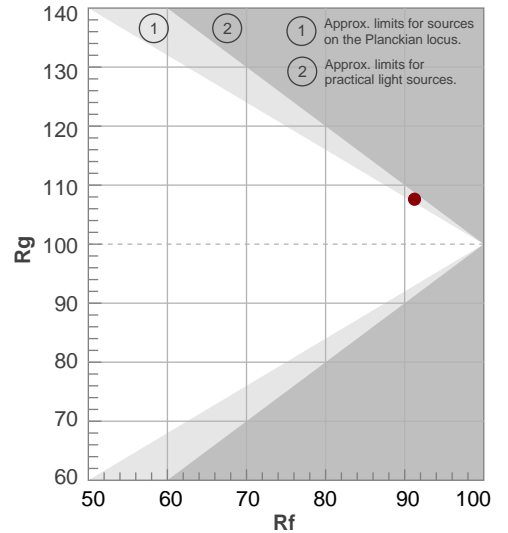
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5787 K	91,6	92,1	91,2	107,6	93,9	84	0,326	0,334	-0,0044

TM30 DETAILS

Rf 91,2
Fidelity index Rf

Rg 107,6
Gammut index

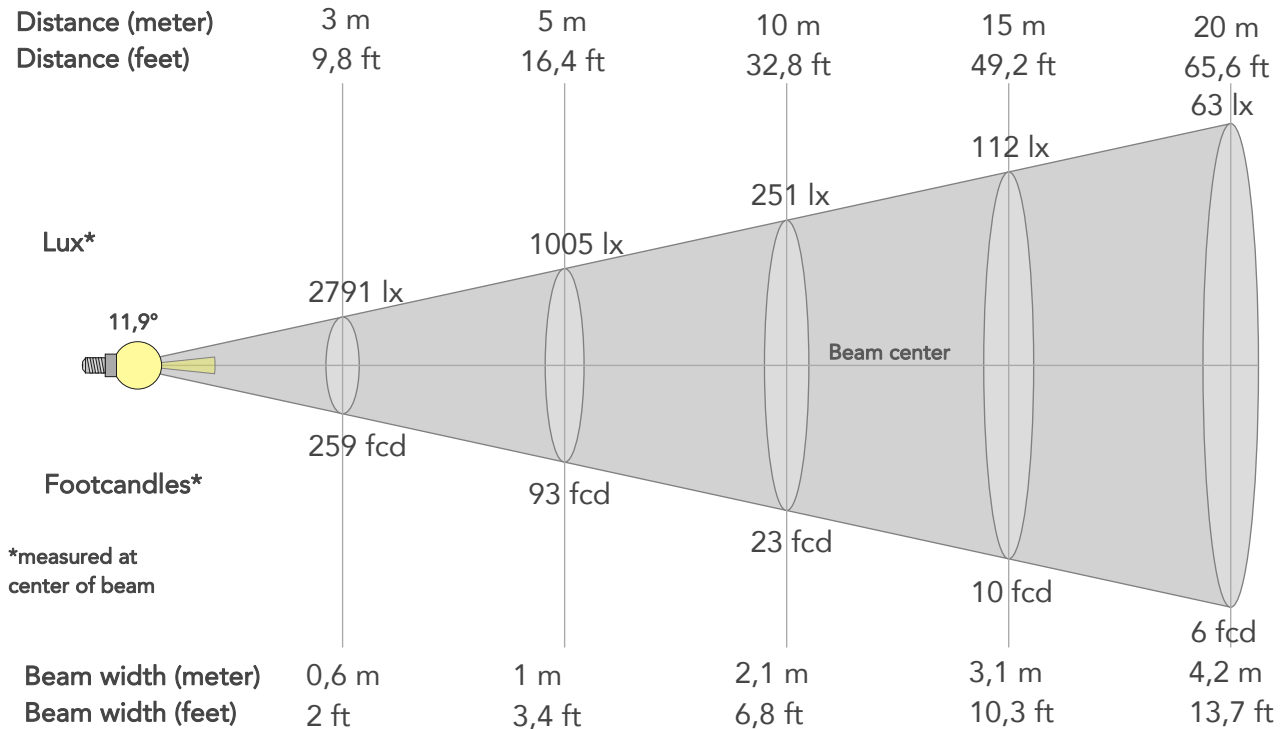
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	2%	-2%
2	95	1%	0%
3	95	2%	2%
4	95	1%	2%
5	91	2%	3%
6	87	9%	5%
7	87	9%	1%
8	91	5%	-2%
9	94	1%	-2%
10	96	-1%	0%
11	86	1%	9%
12	92	2%	5%
13	93	6%	3%
14	88	6%	4%
15	86	12%	-4%
16	92	5%	-1%



BEAM DETAILS



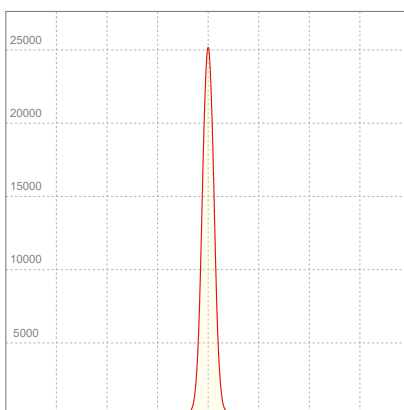
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,9°	21,3°	28°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	25117lx	6279lx	2791lx	1570lx	1005lx	447lx	251lx	112lx	63lx	40lx	28lx	16lx	10lx
Footcand.	2333fcd	583fcd	259fcd	146fcd	93fcd	41fcd	23fcd	10fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,6m	2,1m	3,1m	4,2m	5,2m	6,3m	8,3m	10,4m
Beam wid.	0,7ft	1,4ft	2ft	2,7ft	3,4ft	5,1ft	6,8ft	10,3ft	13,7ft	17,1ft	20,5ft	27,4ft	34,2ft

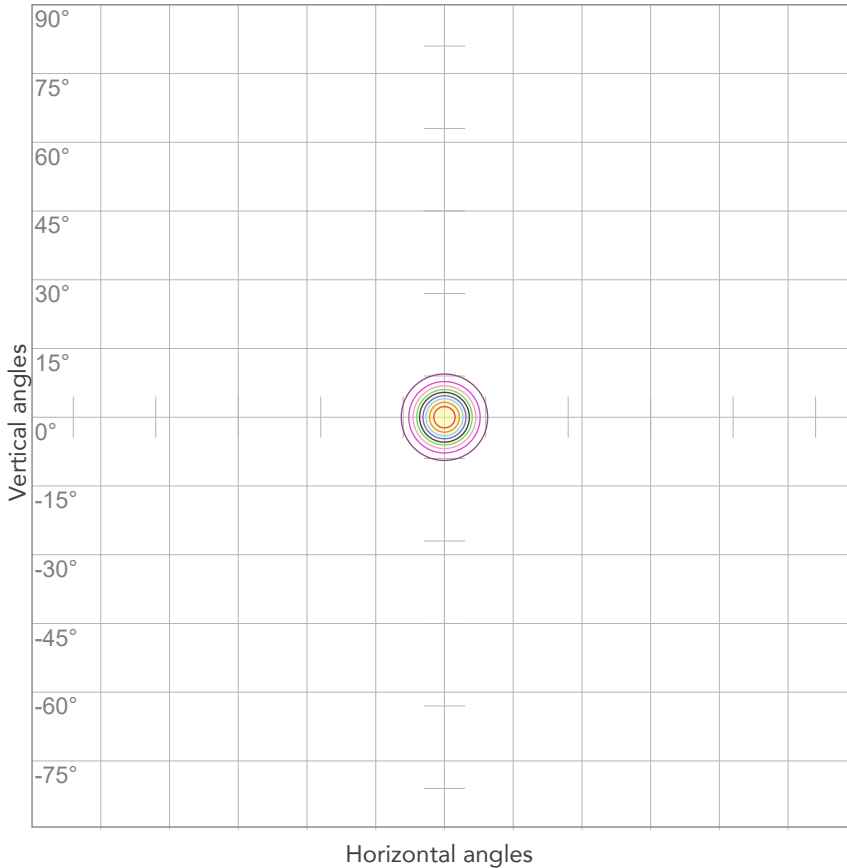
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,191A	40,2W	31lm/W

ISO CANDELA DIAGRAM



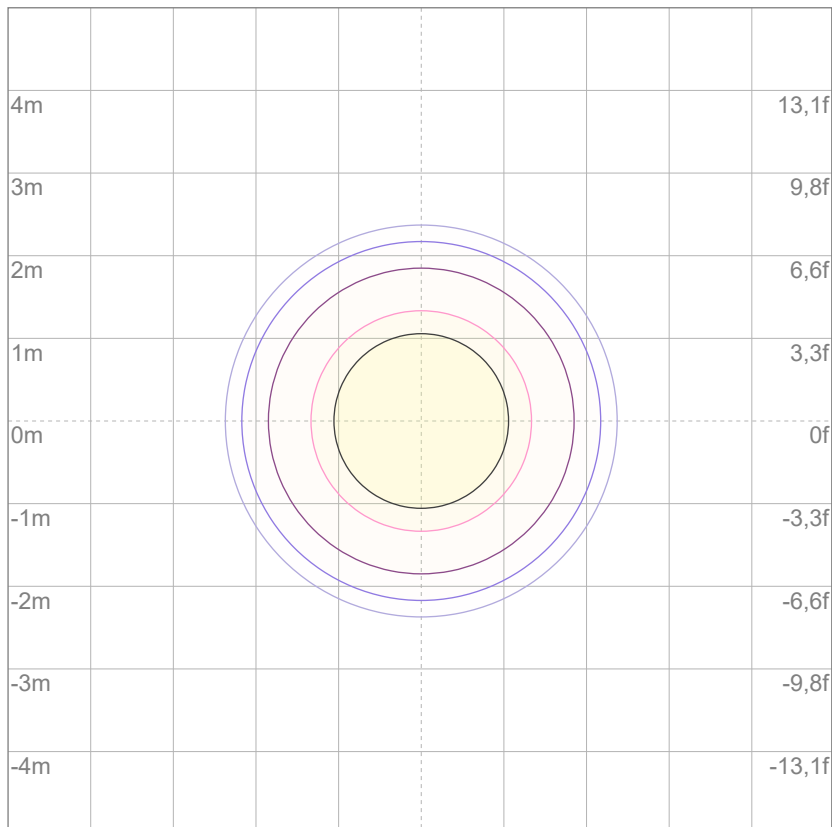
10%	2512 cd
20%	5023 cd
30%	7535 cd
40%	10047 cd
50%	12558 cd
60%	15070 cd
70%	17582 cd
80%	20093 cd

Conditions:

Number of c-planes: 2

Candela at center: 25117 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	7,53 lx
5%	12,6 lx
10%	25,1 lx
30%	75,3 lx
50%	126 lx

Conditions:

Number of c-planes: 2

Lux at center: 251 lx

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



Total lumen output:

1256 lm

Peak candela output:

5382 cd

Light quality:

CRI: 92,5

Color temperature:

5799 K

PRODUCT NAME:

SMARTBATPLUSG2

MEASURAMENT CONDITIONS:

Beam angle:

20° Filter

Target:

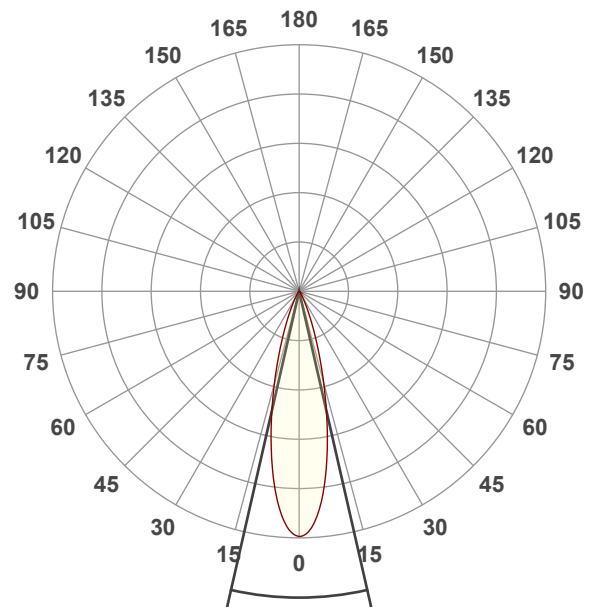
5600K Cal.On.

Operator:

Paolo Carvone

Date and time:

13/06/2022 15:16:13

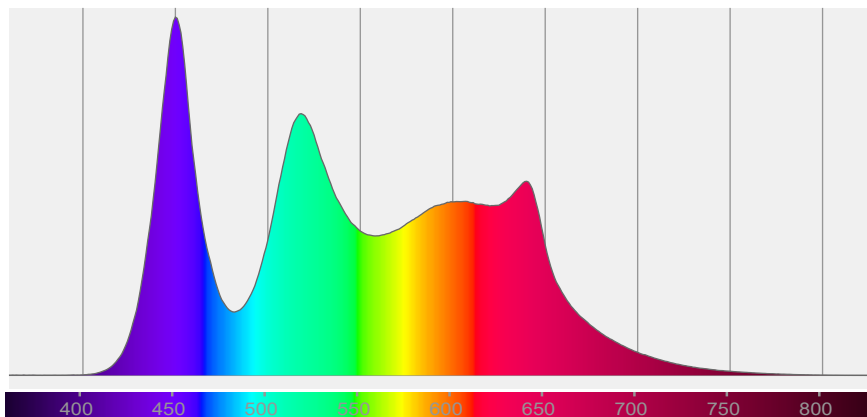


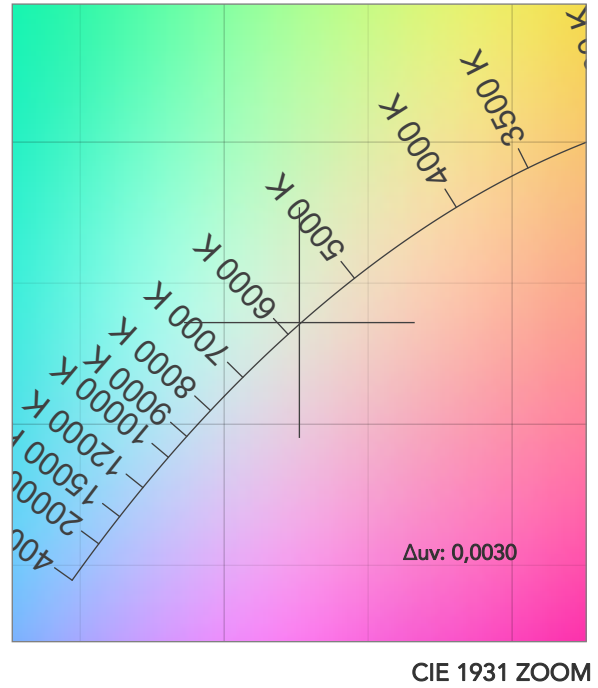
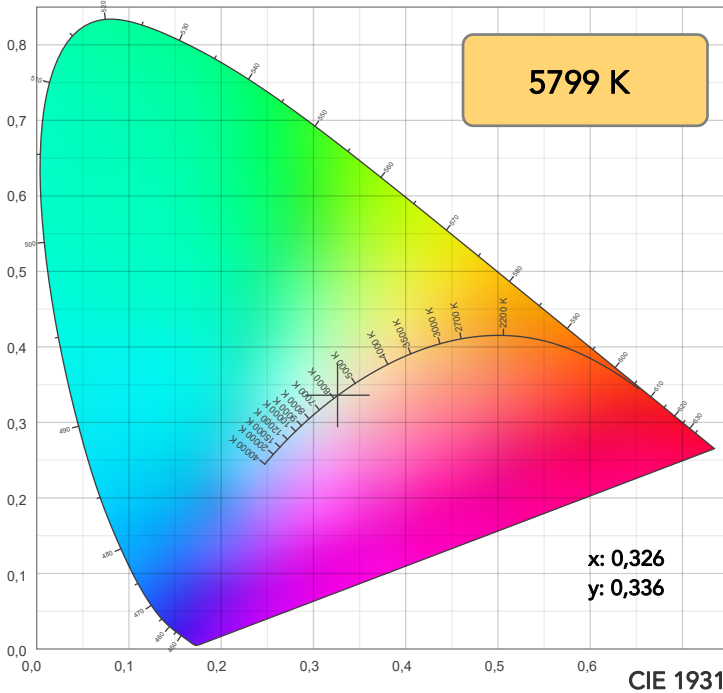
Beam angle 50%: 25,7°

Field angle 10%: 47,3°

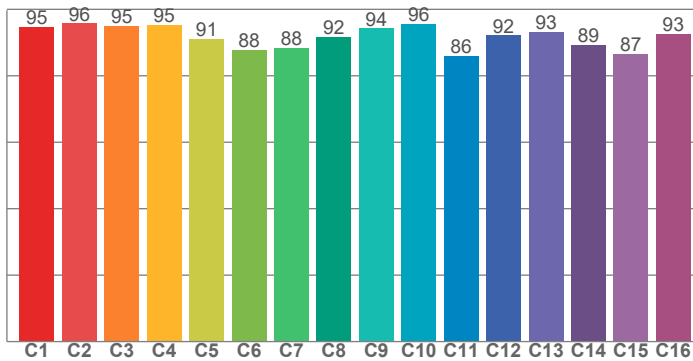
Cut off angle 2.5%: 62°

Spectra

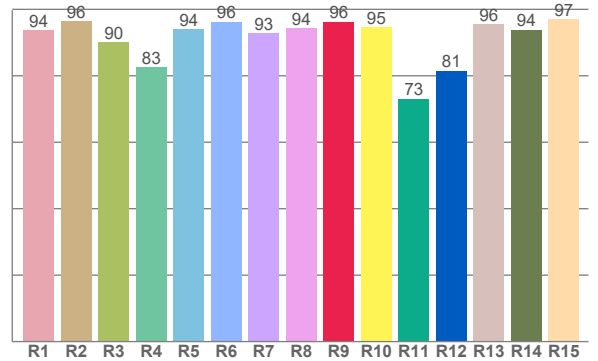




TM30: 91,8



CRI: 92,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,6	96,4	90,1	82,6	94,1	96,2	92,8	94,3	96,3	94,6	73,1	81,5	95,5	93,9	96,9

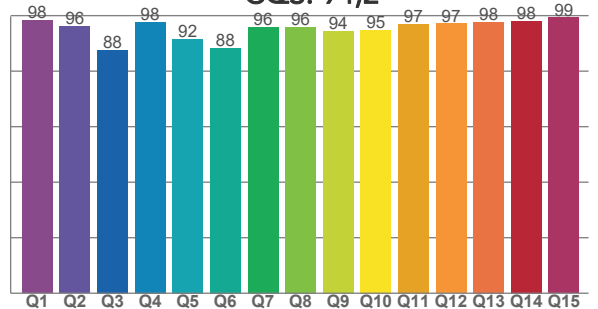
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,3	96,2	87,6	97,7	91,5	88,3	95,9	95,9	94,5	94,9	97,0	97,1	97,7	98,1	99,3

CQS: 94,2



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5799 K	92,5	96,3	91,8	106,7	94,2	86	0,326	0,336	0,0030

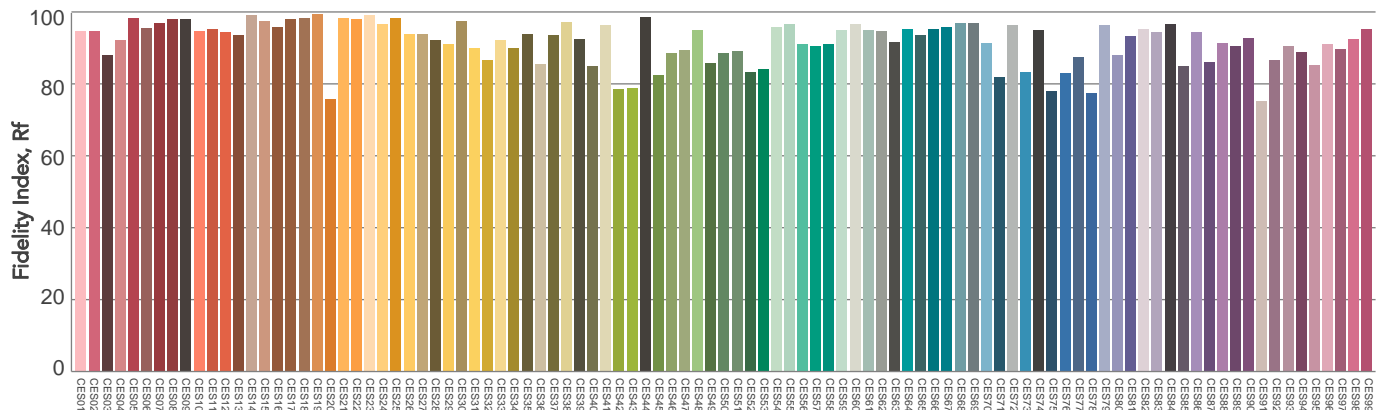
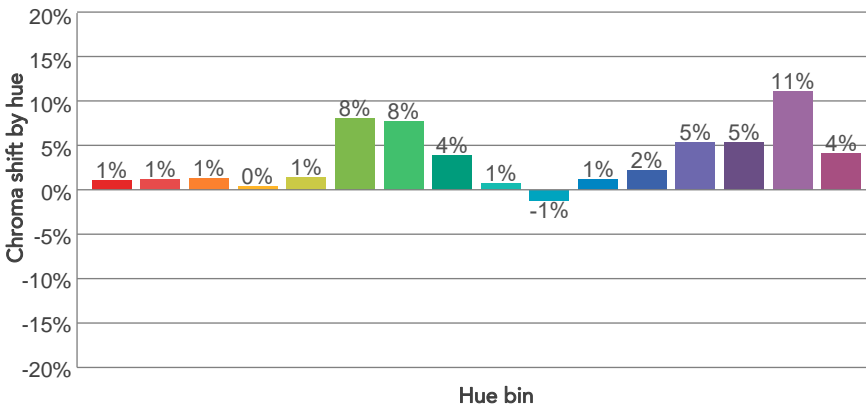
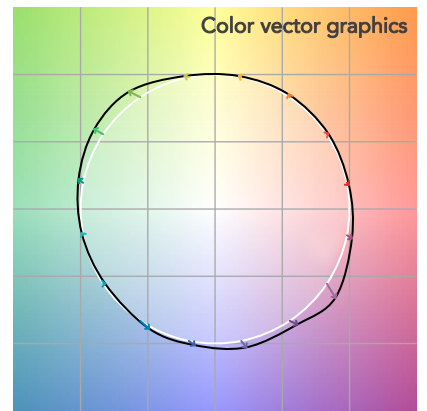
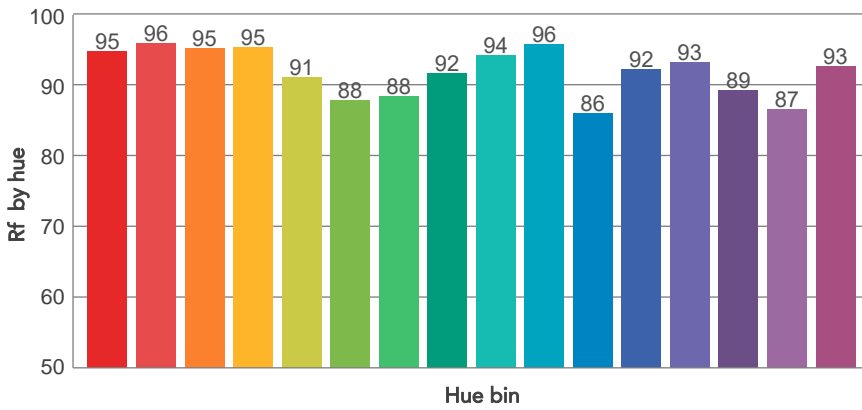
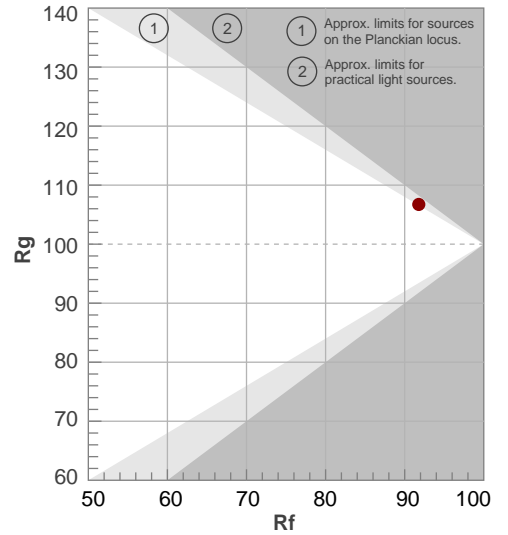
TM30 DETAILS



Rf 91,8
Fidelity index Rf

Rg 106,7
Gammut index

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

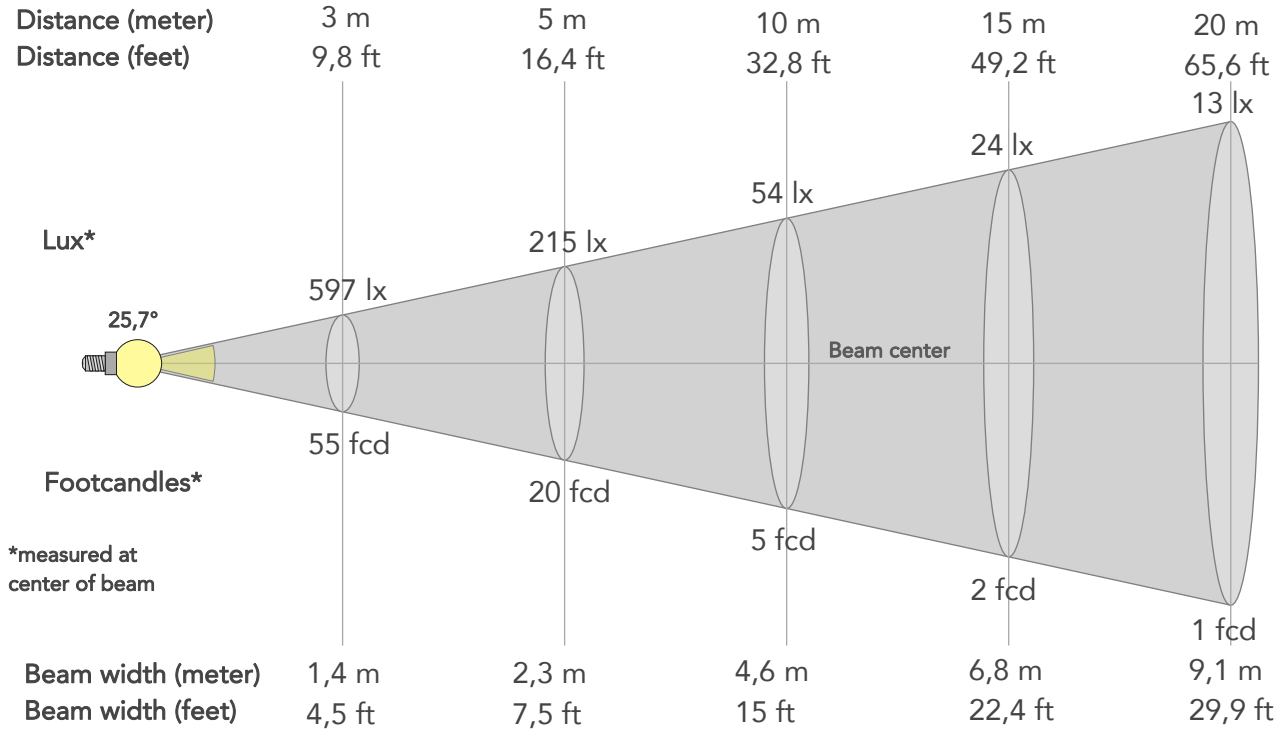


Color Evaluation Sample

BEAM DETAILS



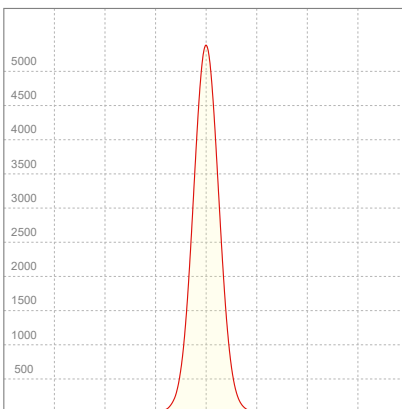
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,7°	47,3°	62°	100,0%	99,7%



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	5374lx	1343lx	597lx	336lx	215lx	96lx	54lx	24lx	13lx	9lx	6lx	3lx	2lx
Footcand.	499fcd	125fcd	55fcd	31fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,6m	6,8m	9,1m	11,4m	13,7m	18,3m	22,8m
Beam wid.	1,5ft	3ft	4,5ft	6ft	7,5ft	11,2ft	15ft	22,4ft	29,9ft	37,4ft	44,9ft	59,9ft	74,8ft

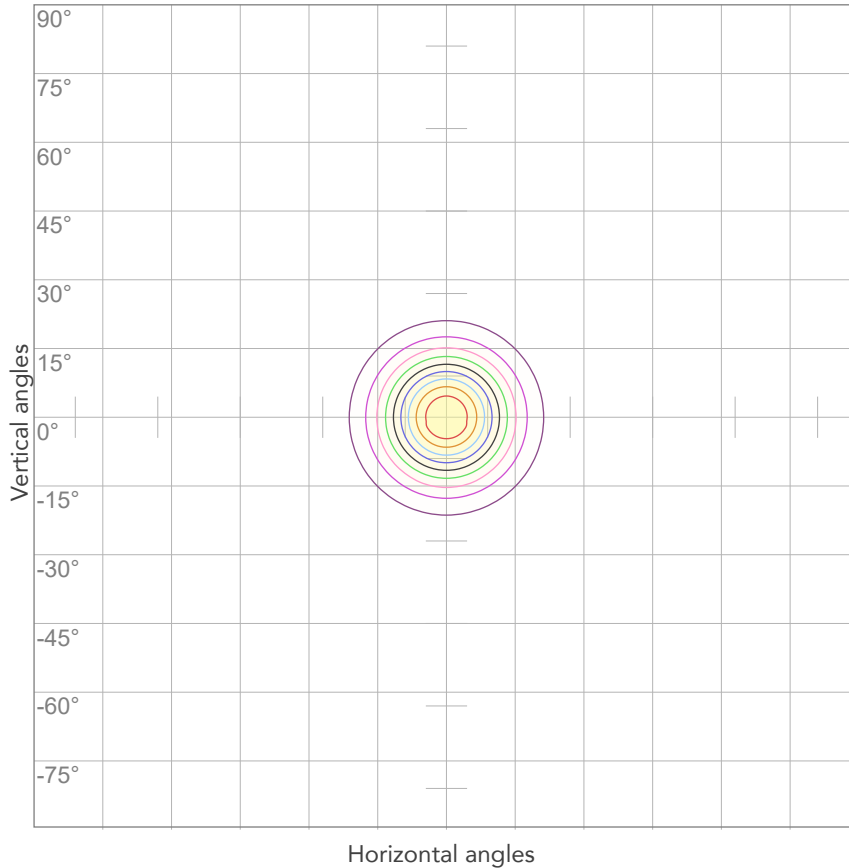
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,191A	39,7W	32lm/W

ISO CANDELA DIAGRAM



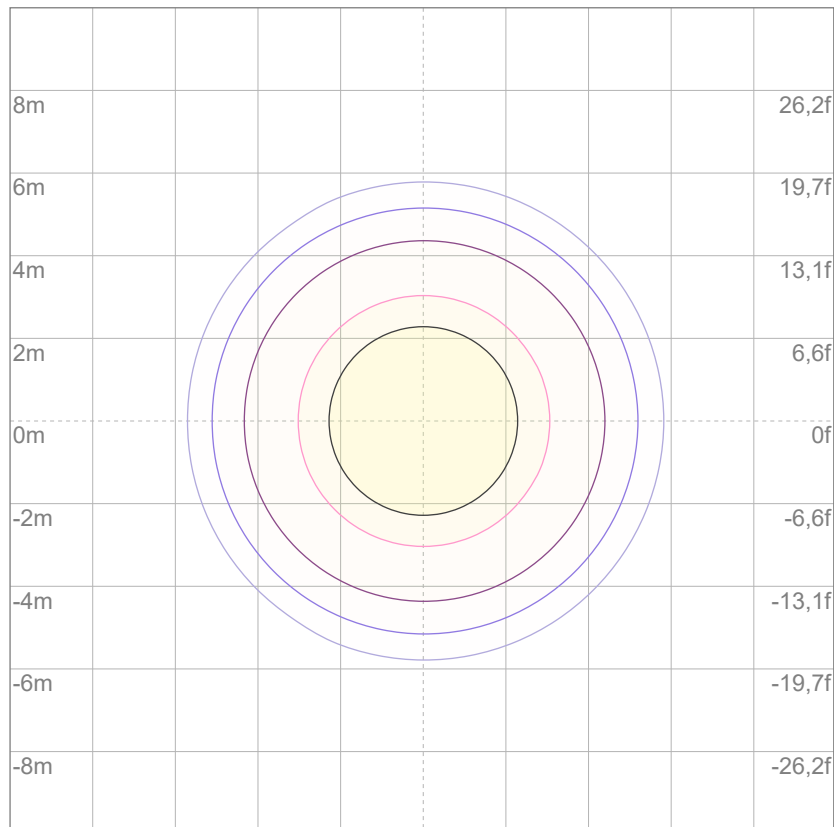
10%	537 cd
20%	1075 cd
30%	1612 cd
40%	2149 cd
50%	2687 cd
60%	3224 cd
70%	3762 cd
80%	4299 cd

Conditions:

Number of c-planes: 2

Candela at center: 5374 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,61 lx
5%	2,69 lx
10%	5,37 lx
30%	16,1 lx
50%	26,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 53,7 lx

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



Total lumen output:

1270 lm

Peak candela output:

2000 cd

Light quality:

CRI: 92,2

Color temperature:

5791 K

PRODUCT NAME:
SMARTBATPLUSG2

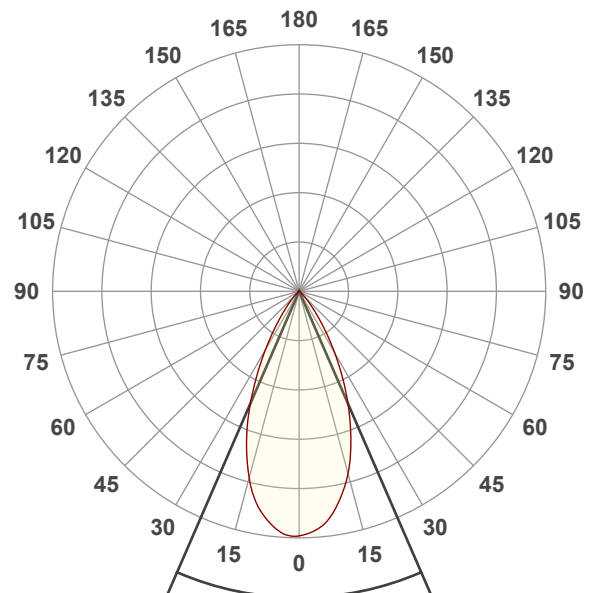
MEASUREMENT CONDITIONS:

Beam angle:
40° Filter

Target:
5600K Cal.On.

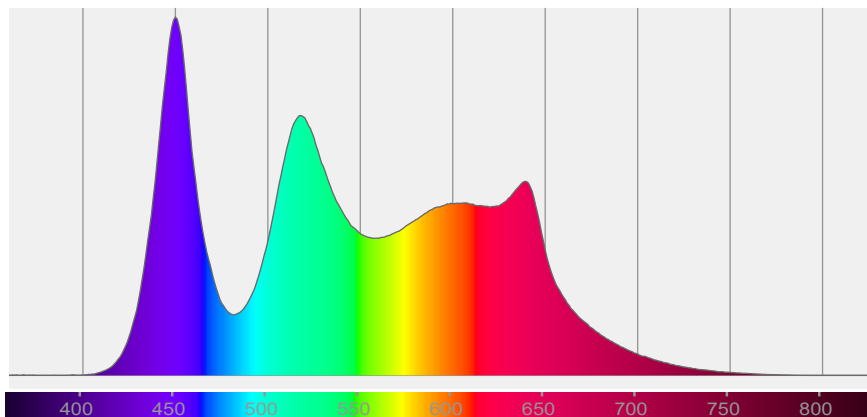
Operator:
Paolo Carvone

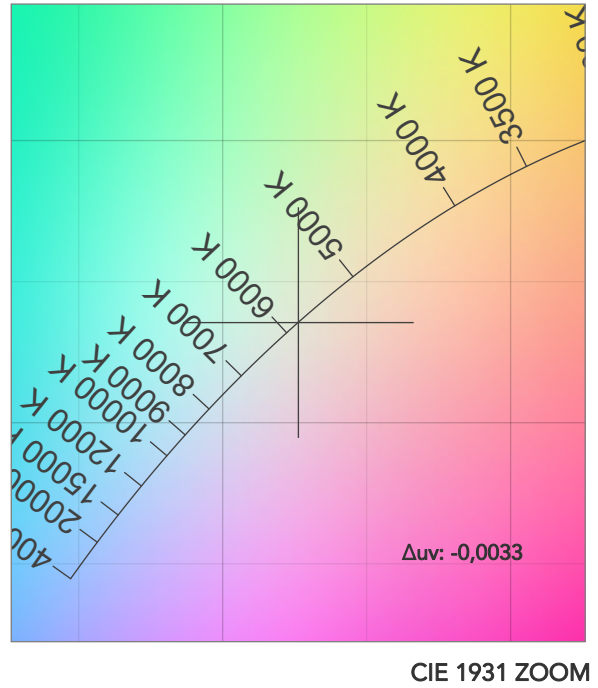
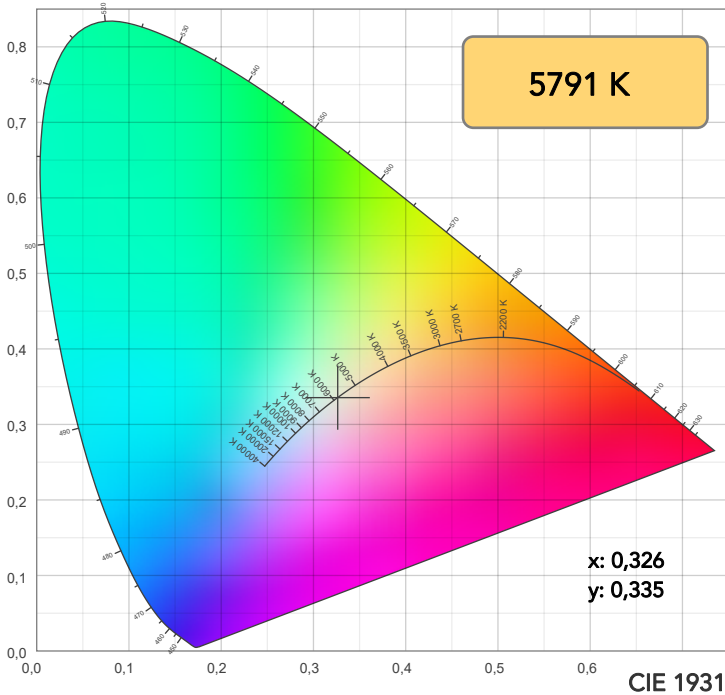
Date and time:
13/06/2022 14:54:11



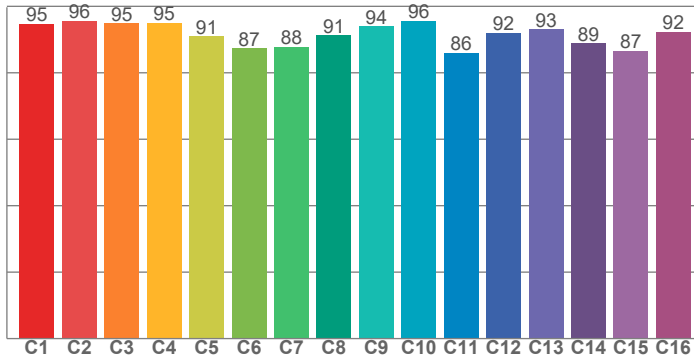
Beam angle 50%: 47°
Field angle 10%: 75,8°
Cut off angle 2.5%: 91,7°

Spectra

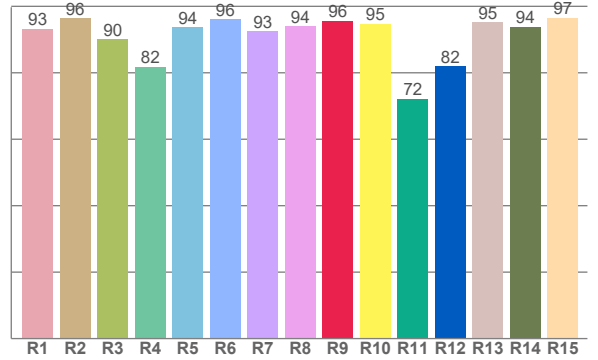




TM30: 91,6



CRI: 92,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,3	96,4	90,0	81,9	93,7	96,2	92,5	93,9	95,6	94,8	72,2	82,0	95,2	93,8	96,6

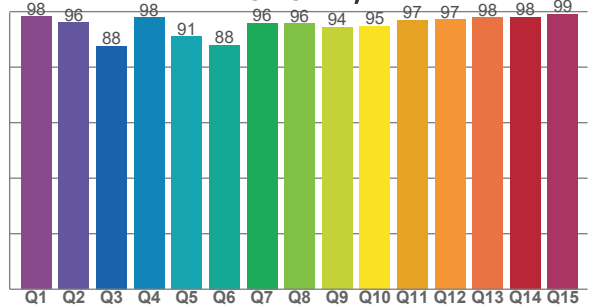
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	95,6	94,9	95,1	91,0	87,3	87,8	91,2	94,0	95,7	86,0	91,9	93,0	88,9	86,5	92,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,2	96,0	87,5	97,8	91,0	87,9	96,0	95,7	94,4	94,8	97,0	97,2	97,8	98,0	99,2

CQS: 94,1



COLOR PARAMETERS

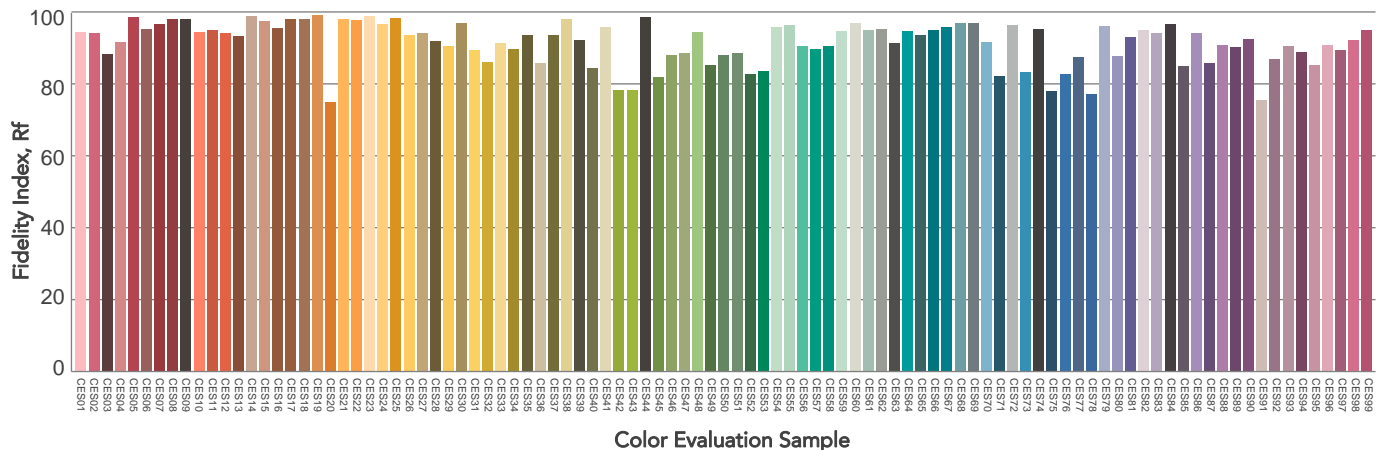
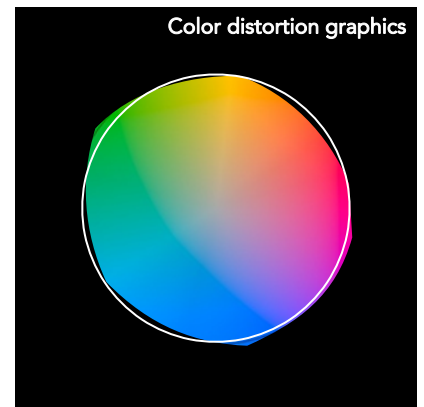
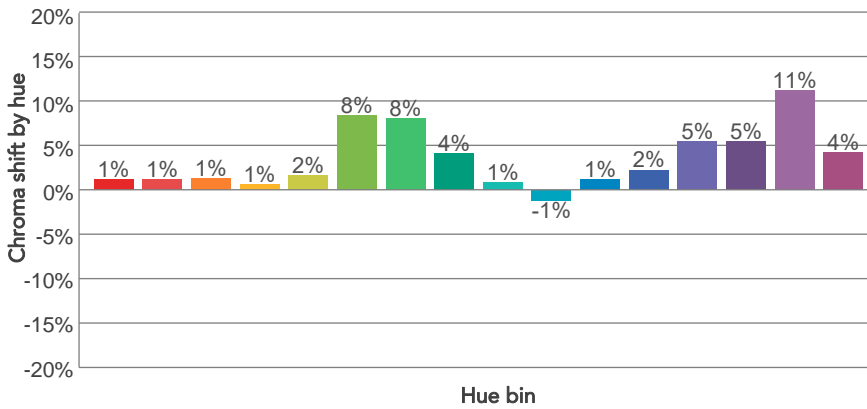
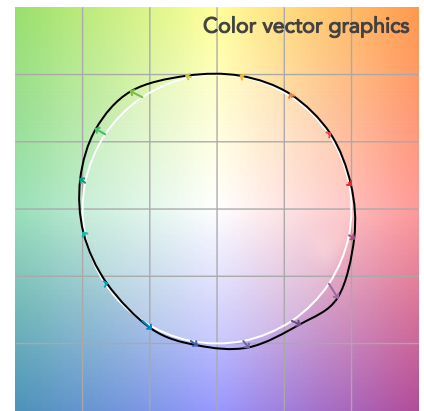
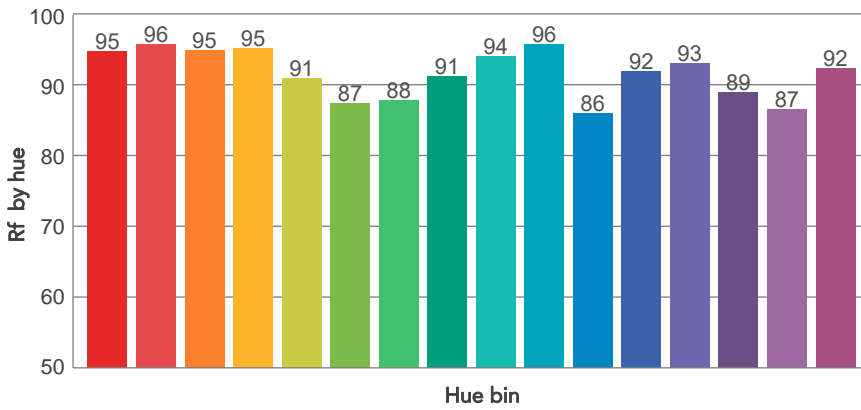
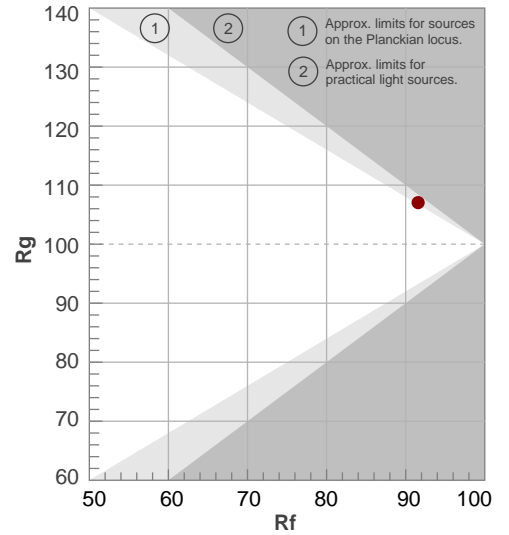
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5791 K	92,2	95,6	91,6	107,0	94,1	85	0,326	0,335	-0,0033

TM30 DETAILS

Rf 91,6
Fidelity index Rf

Rg 107,0
Gammut index

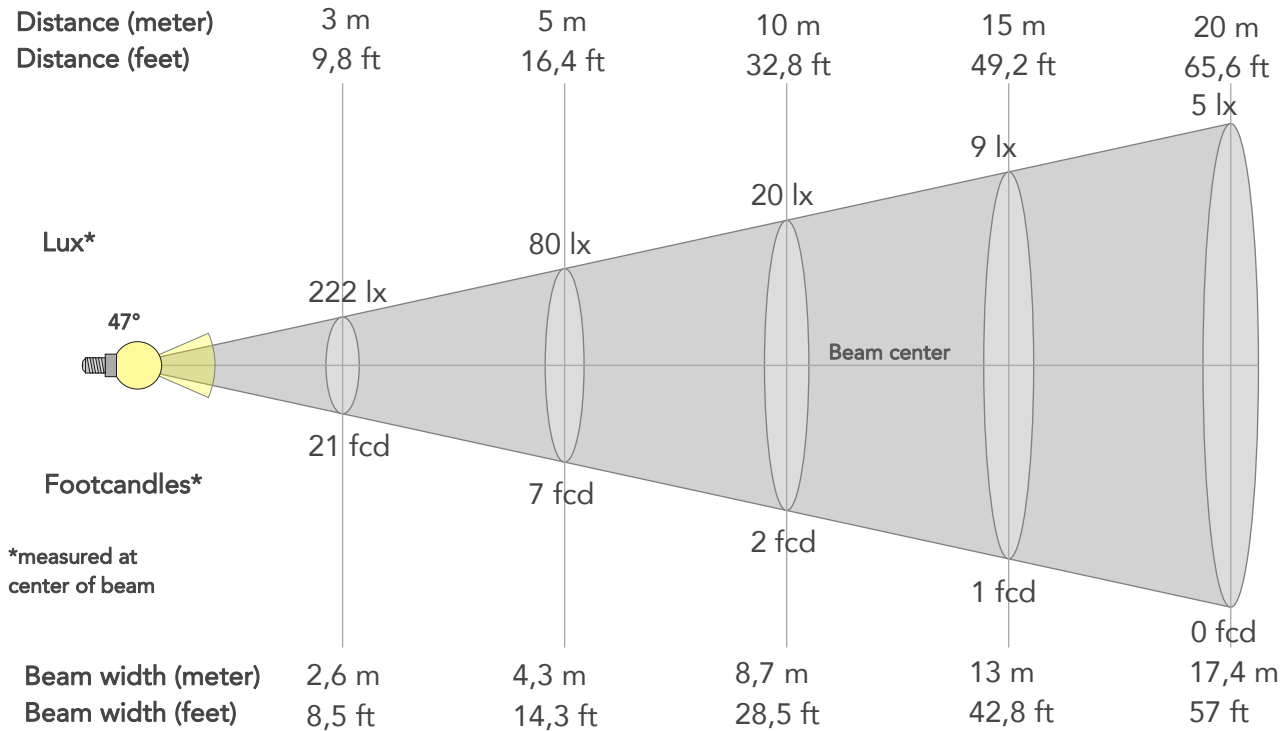
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	0%
3	95	1%	2%
4	95	1%	2%
5	91	2%	3%
6	87	8%	5%
7	88	8%	1%
8	91	4%	-2%
9	94	1%	-2%
10	96	-1%	0%
11	86	1%	9%
12	92	2%	5%
13	93	5%	3%
14	89	5%	3%
15	87	11%	-5%
16	92	4%	-2%



BEAM DETAILS



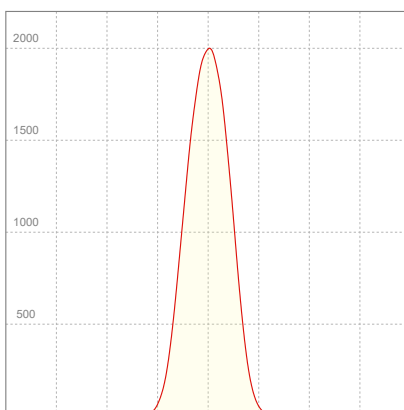
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47°	75,8°	91,7°	100,0%	98,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1994lx	498lx	222lx	125lx	80lx	35lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	185fcd	46fcd	21fcd	12fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,3m	6,5m	8,7m	13m	17,4m	21,7m	26,1m	34,8m	43,5m
Beam wid.	2,9ft	5,7ft	8,5ft	11,4ft	14,3ft	21,4ft	28,5ft	42,8ft	57ft	71,3ft	85,5ft	114ft	142,5ft

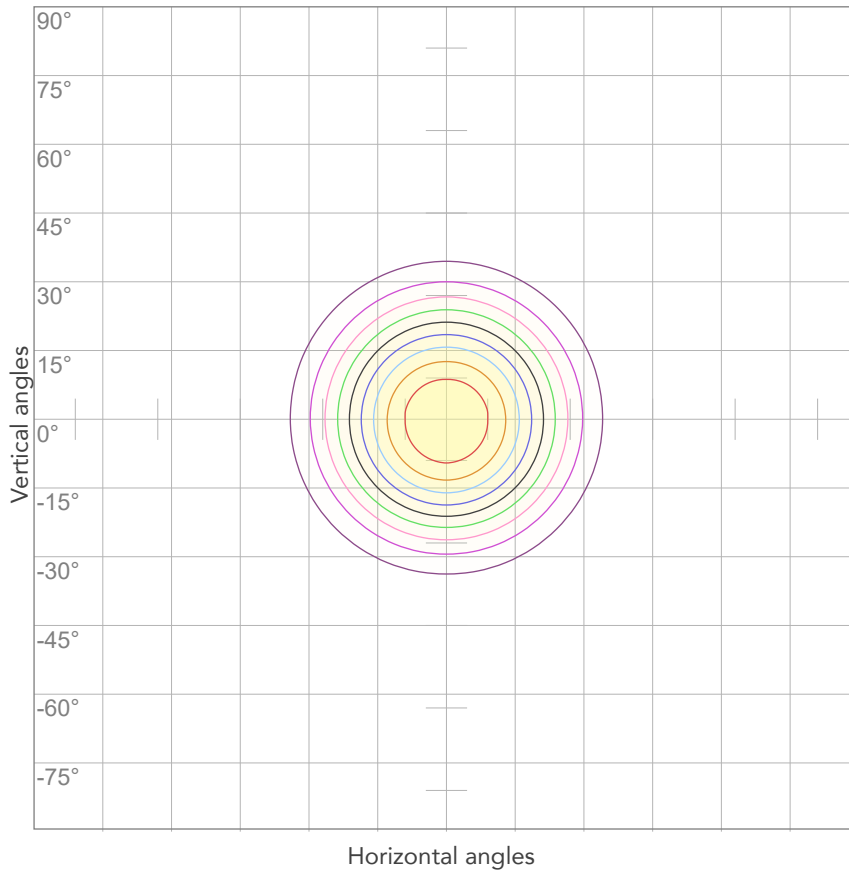
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,191A	39,9W	32lm/W

ISO CANDELA DIAGRAM



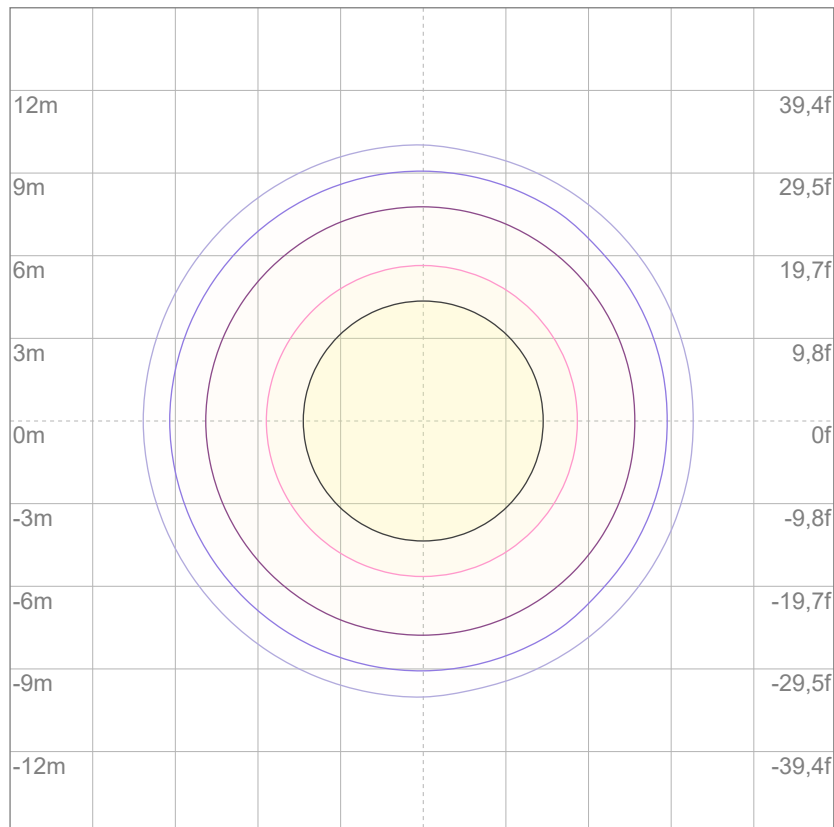
10%	199 cd
20%	399 cd
30%	598 cd
40%	797 cd
50%	997 cd
60%	1196 cd
70%	1396 cd
80%	1595 cd

Conditions:

Number of c-planes: 2

Candela at center: 1994 cd

ISO LUX DIAGRAM



3%	0,598 lx
5%	0,997 lx
10%	1,99 lx
30%	5,98 lx
50%	9,97 lx

Conditions:

Number of c-planes: 2

Lux at center: 19,9 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

1261 lm

Peak candela output:

1501 cd

Light quality:

CRI: 92,2

Color temperature:

5773 K

PRODUCT NAME:
SMARTBATPLUSG2

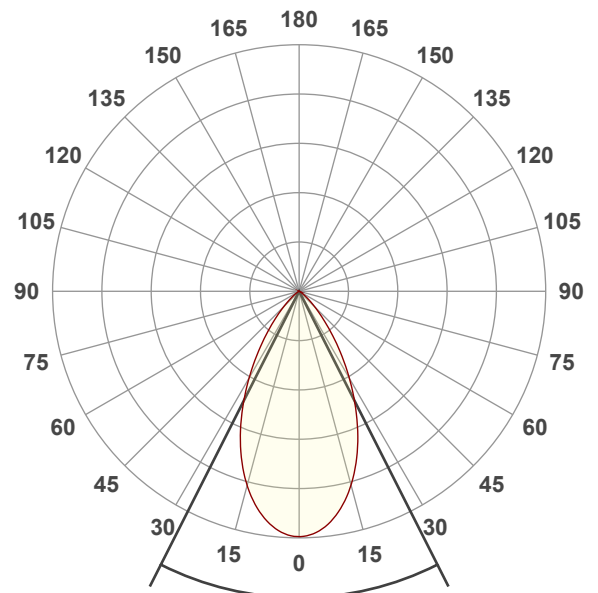
MEASUREMENT CONDITIONS:

Beam angle:
60° Filter

Target:
5600K Cal.On.

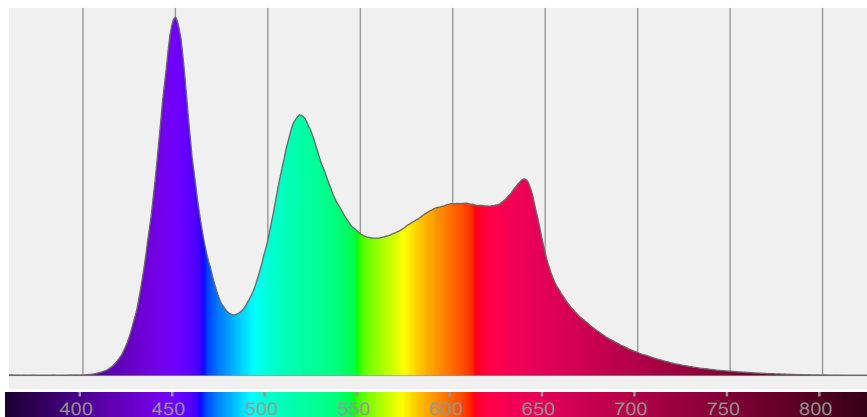
Operator:
Paolo Carvone

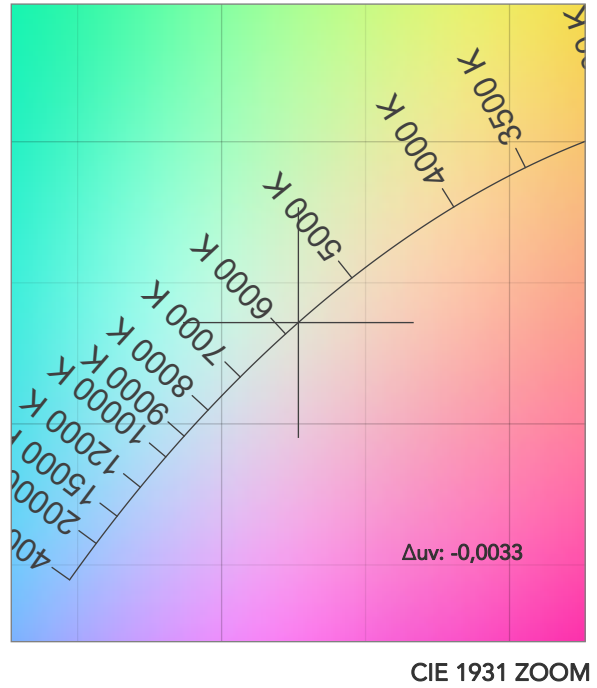
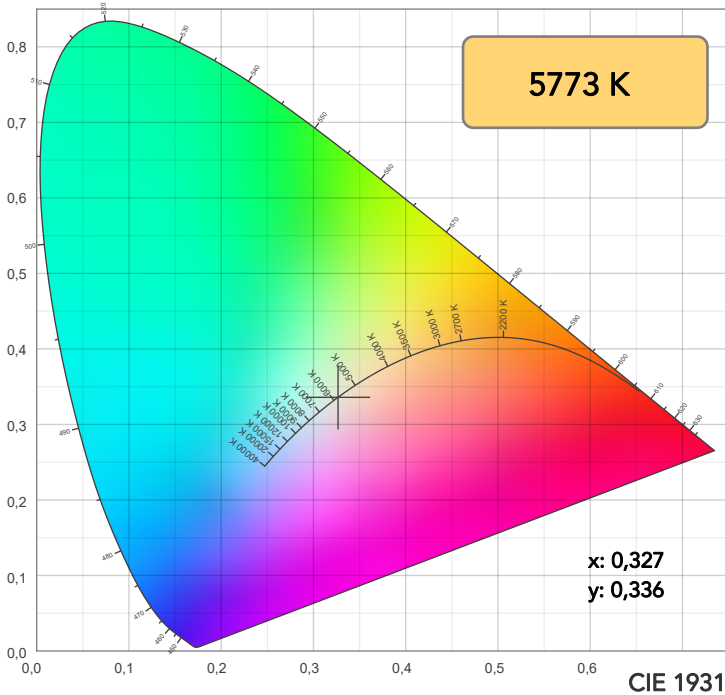
Date and time:
13/06/2022 14:33:03



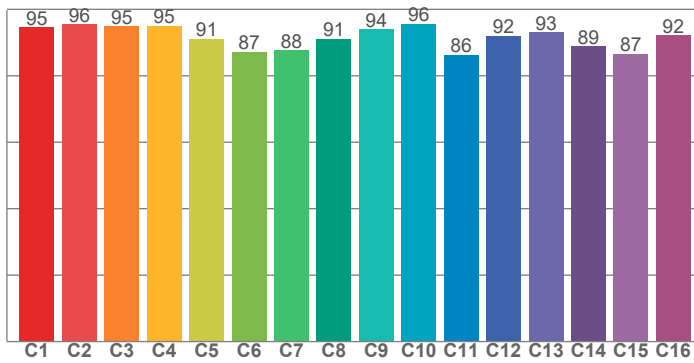
Beam angle 50%: 53,7°
Field angle 10%: 88,6°
Cut off angle 2.5%: 107,2°

Spectra

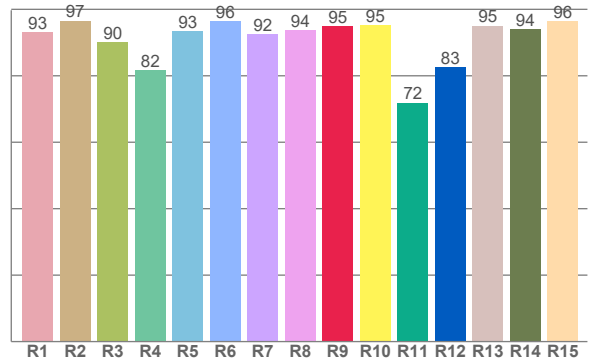




TM30: 91,6



CRI: 92,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,1	96,5	90,1	81,6	93,4	96,3	92,4	93,7	95,0	95,1	71,8	82,6	95,1	93,9	96,4

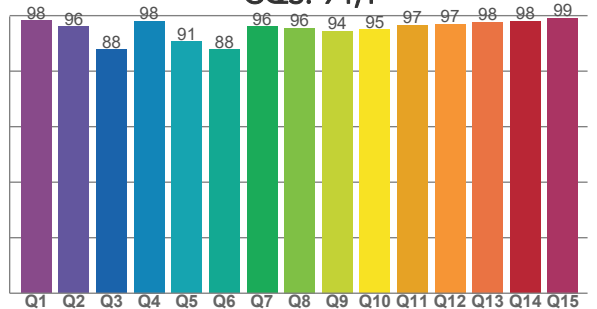
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	95,5	94,9	95,1	91,1	87,2	87,6	91,0	93,9	95,7	86,3	92,1	93,1	88,9	86,6	92,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,2	96,0	87,8	98,0	90,6	87,7	96,1	95,6	94,5	95,0	96,7	96,9	97,6	98,0	99,1

CQS: 94,1



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
5773 K	92,2	95,0	91,6	107,1	94,1	85	0,327	0,336	-0,0033

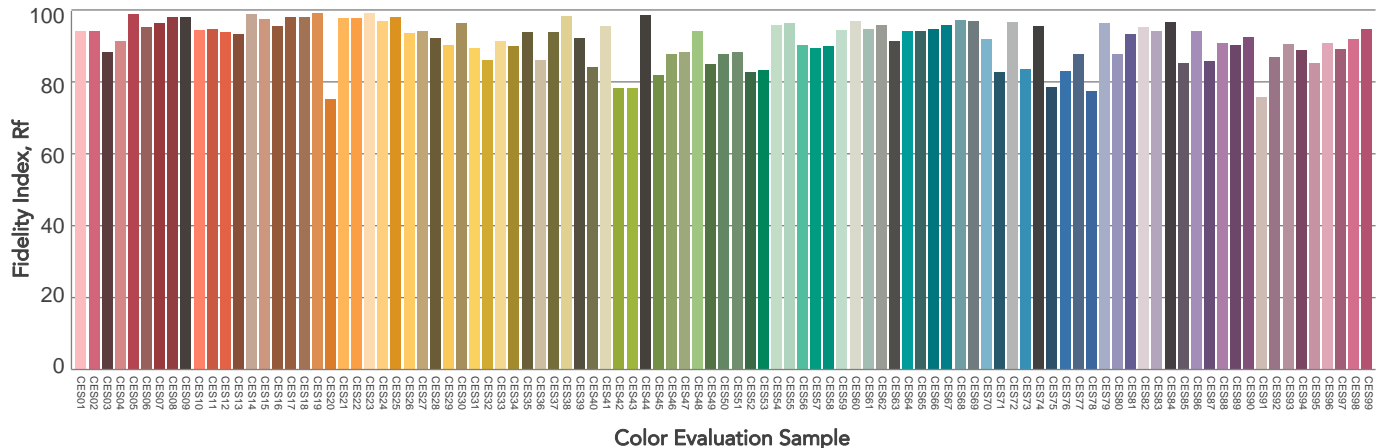
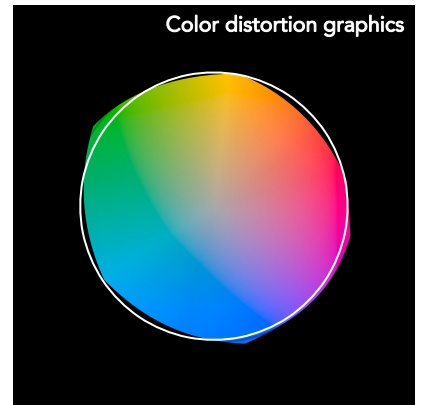
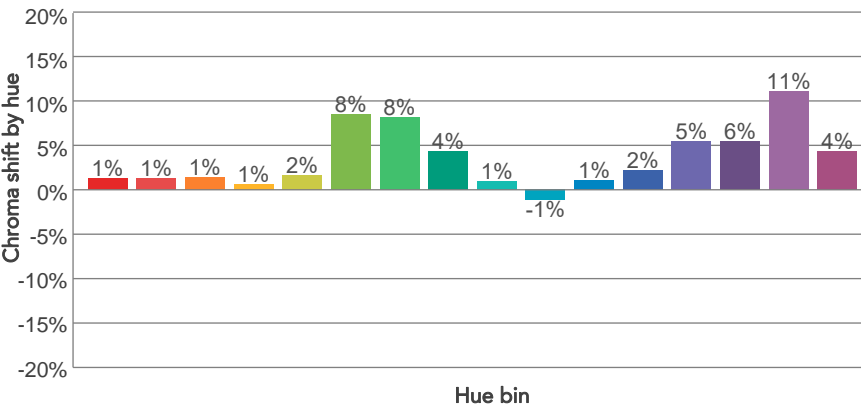
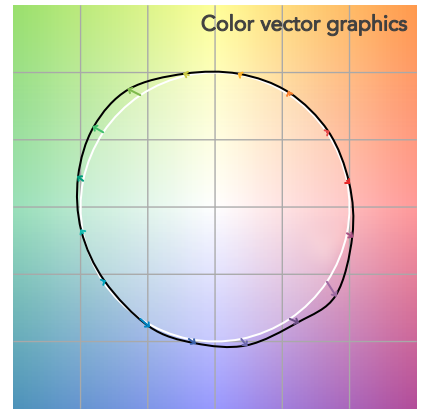
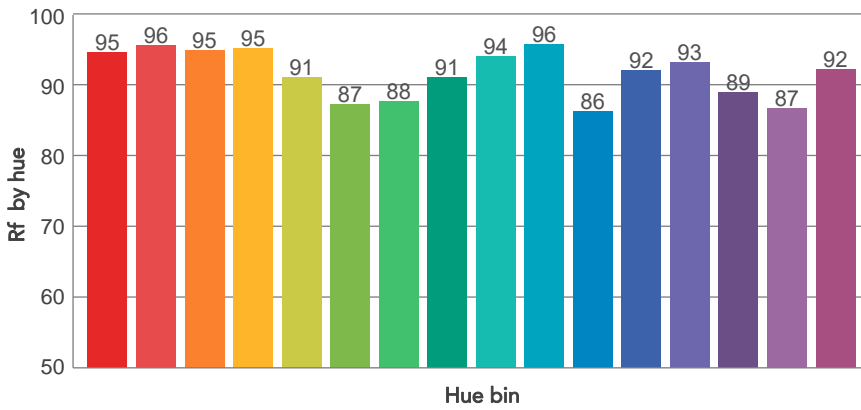
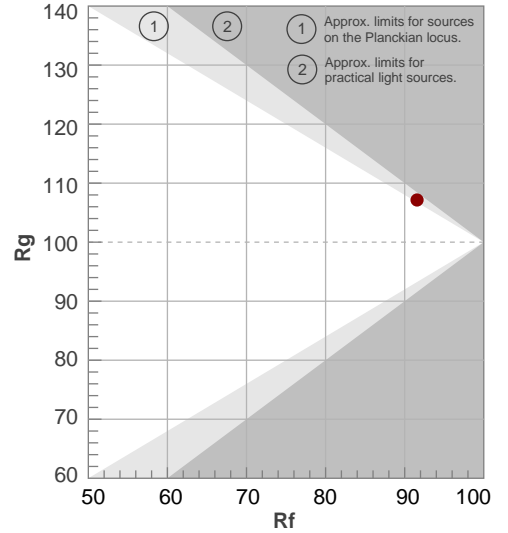
TM30 DETAILS



Rf 91,6
Fidelity index Rf

Rg 107,1
Gammut index

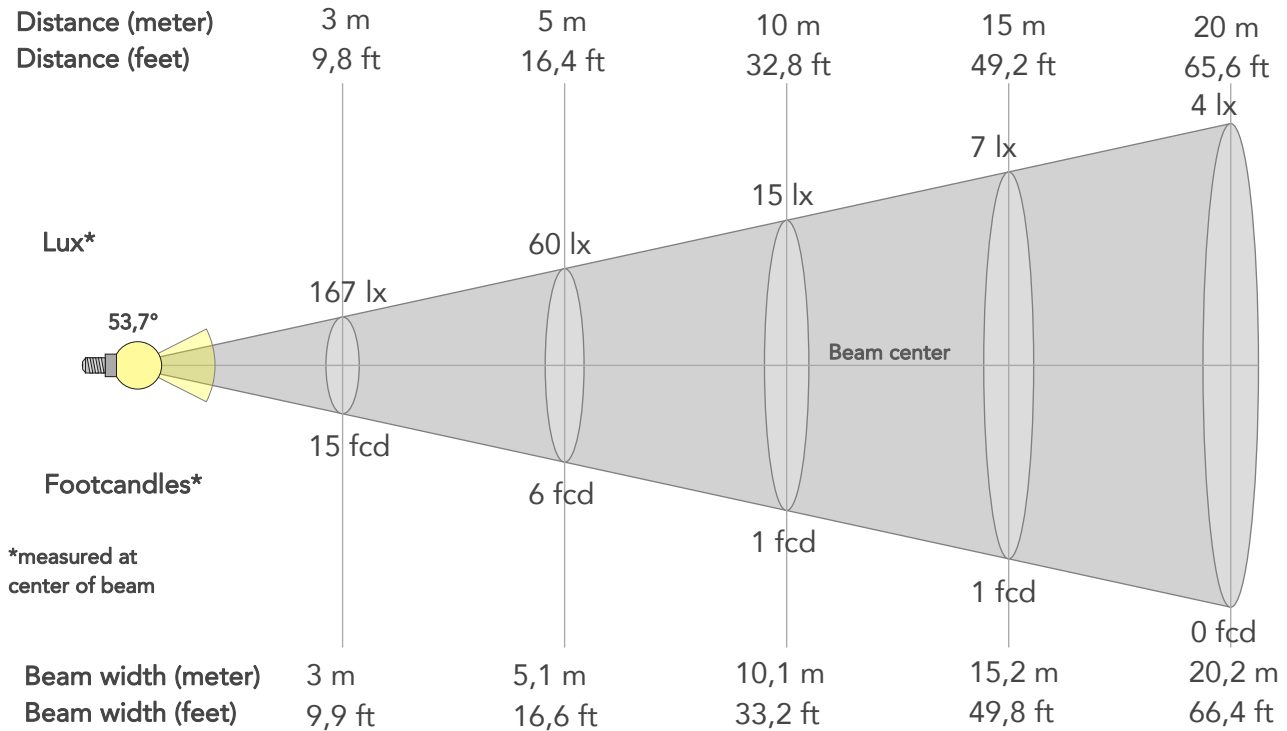
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	0%
3	95	1%	2%
4	95	1%	2%
5	91	2%	3%
6	87	8%	5%
7	88	8%	1%
8	91	4%	-2%
9	94	1%	-2%
10	96	-1%	0%
11	86	1%	8%
12	92	2%	5%
13	93	5%	3%
14	89	6%	4%
15	87	11%	-5%
16	92	4%	-2%



BEAM DETAILS



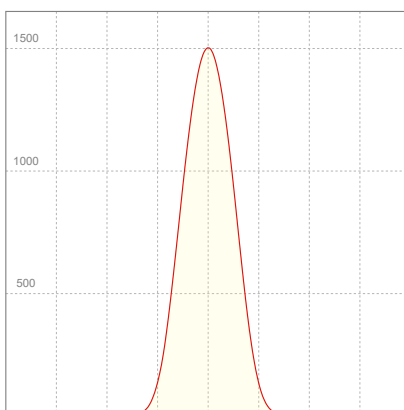
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,7°	88,6°	107,2°	99,4%	94,0%



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	1500lx	375lx	167lx	94lx	60lx	27lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	139fcd	35fcd	15fcd	9fcd	6fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5,1m	7,6m	10,1m	15,2m	20,2m	25,3m	30,4m	40,5m	50,6m
Beam wid.	3,3ft	6,7ft	9,9ft	13,3ft	16,6ft	24,9ft	33,2ft	49,8ft	66,4ft	83ft	99,6ft	132,7ft	165,9ft

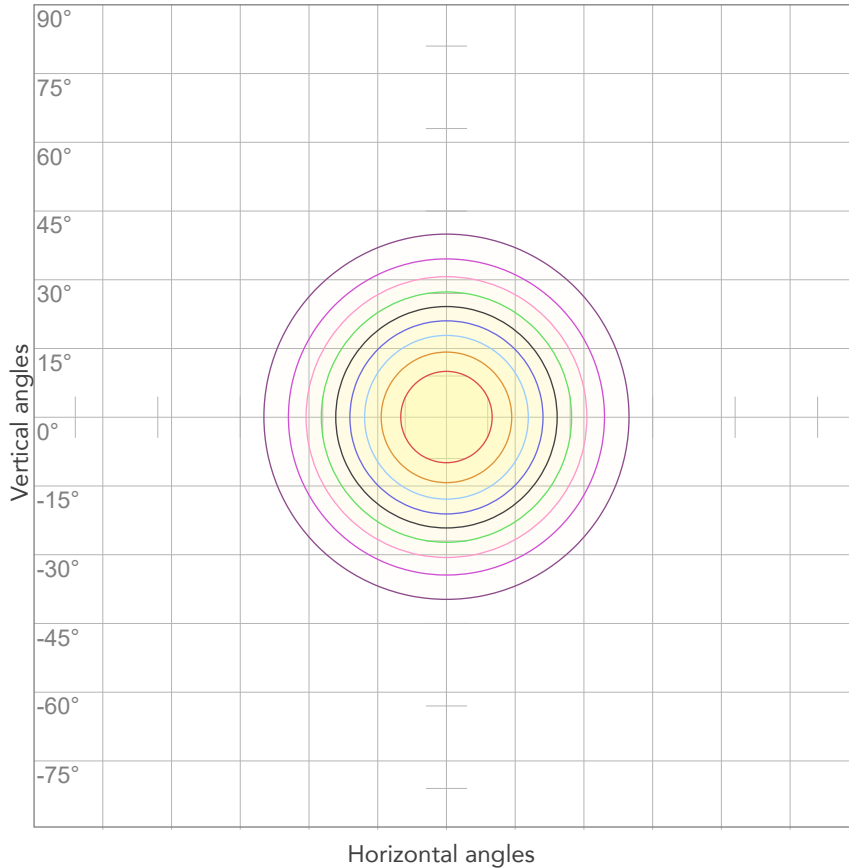
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,191A	40,2W	31lm/W

ISO CANDELA DIAGRAM



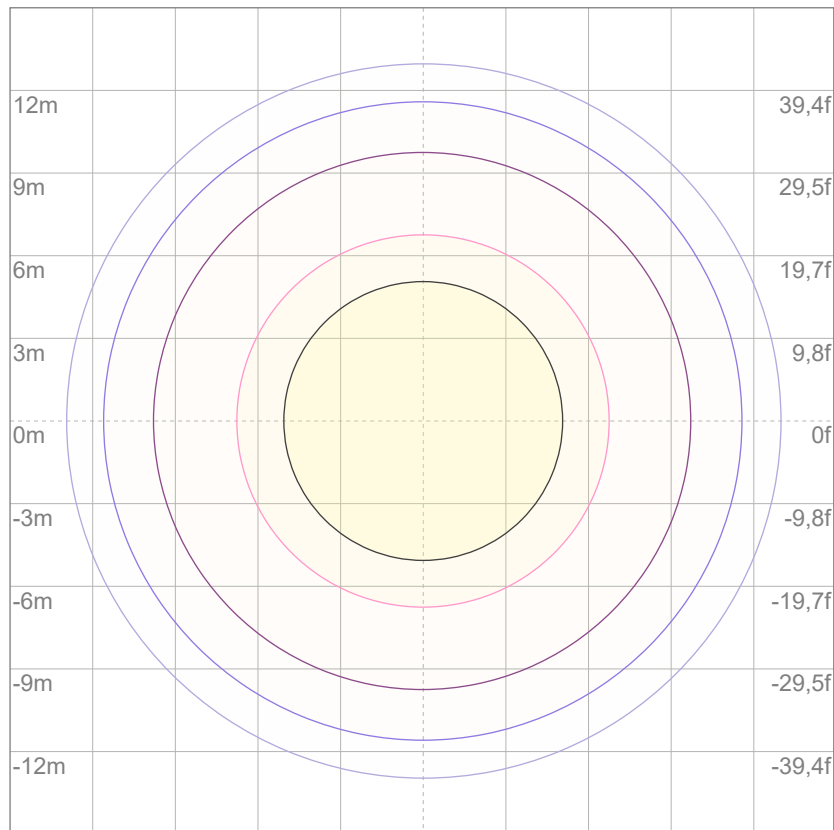
10%	150 cd
20%	300 cd
30%	450 cd
40%	600 cd
50%	750 cd
60%	900 cd
70%	1050 cd
80%	1200 cd

Conditions:

Number of c-planes: 2

Candela at center: 1500 cd

ISO LUX DIAGRAM



3%	0,450 lx
5%	0,750 lx
10%	1,50 lx
30%	4,50 lx
50%	7,50 lx

Conditions:

Number of c-planes: 2

Lux at center: 15,0 lx

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



Total lumen output:

1916 lm

Peak candela output:

3485 cd

Light quality:

CRI: 92,6

Color temperature:

5803 K

PRODUCT NAME:
SMARTBATPLUSG2

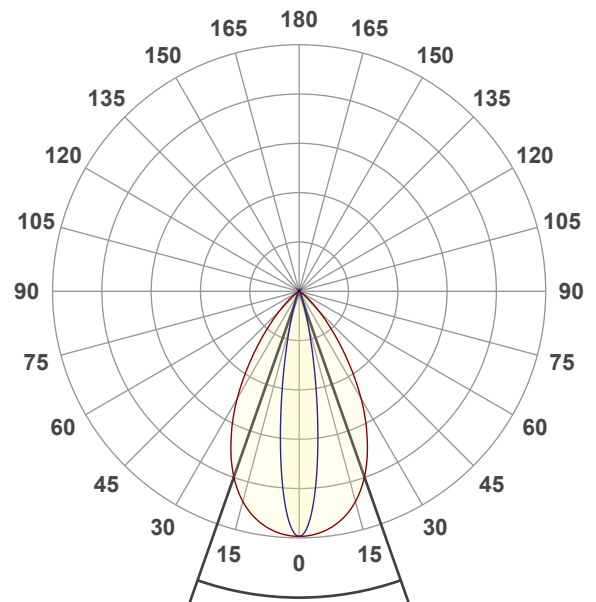
MEASUREMENT CONDITIONS:

Beam angle:
1060 Filter

Target:
5600K On Cal.On.

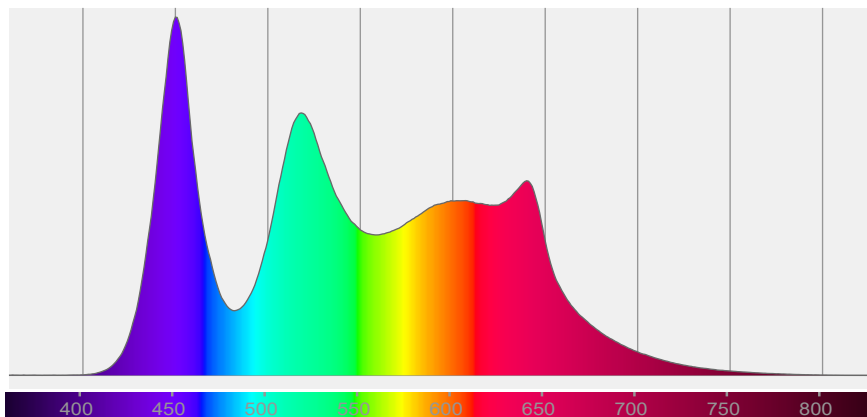
Operator:
Paolo Carvone

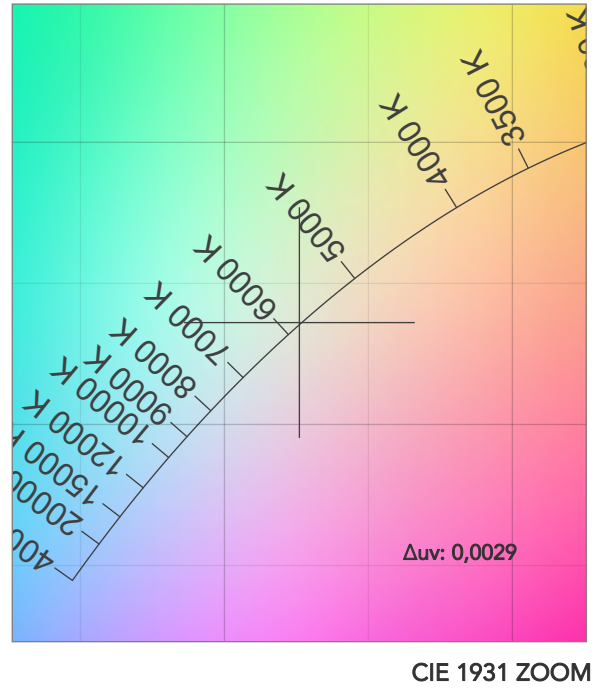
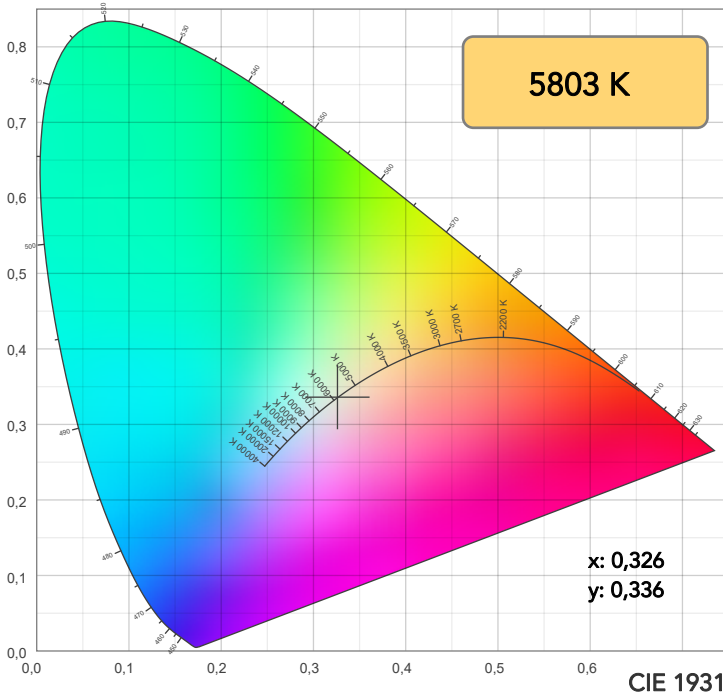
Date and time:
10/06/2022 14:52:25



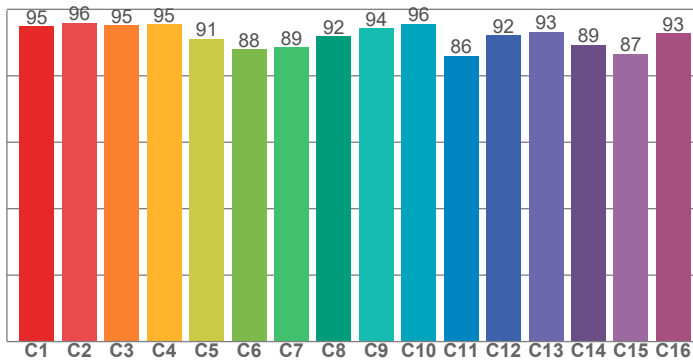
Beam angle 50%: 38,7°
Field angle 10%: 62,8°
Cut off angle 2.5%: 79,6°

Spectra

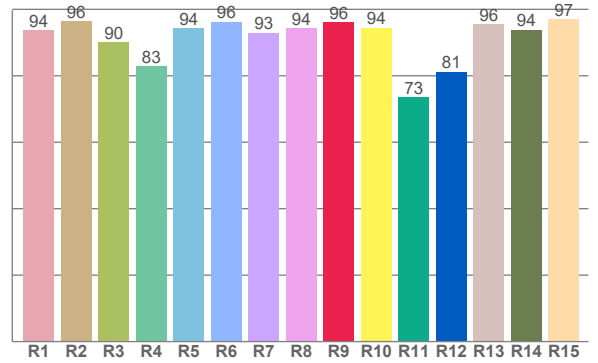




TM30: 91,9



CRI: 92,6 (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
93,7	96,5	90,1	82,9	94,3	96,2	92,9	94,3	96,2	94,5	73,5	81,2	95,6	93,9	97,0

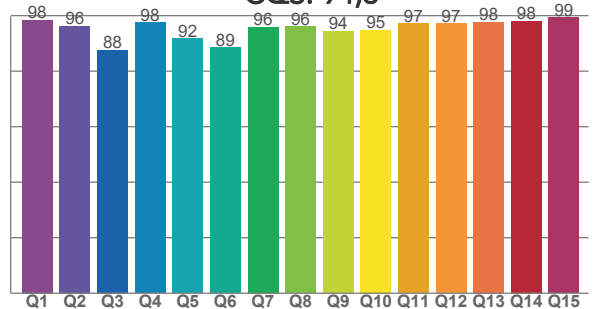
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,8	95,9	95,2	95,4	91,1	88,0	88,6	91,9	94,3	95,6	85,9	92,1	93,2	89,4	86,6	92,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,4	96,2	87,6	97,5	91,8	88,6	95,9	96,0	94,4	94,8	97,1	97,1	97,7	98,1	99,3

CQS: 94,3



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
5803 K	92,6	96,2	91,9	106,6	94,3	87	0,326	0,336	0,0029

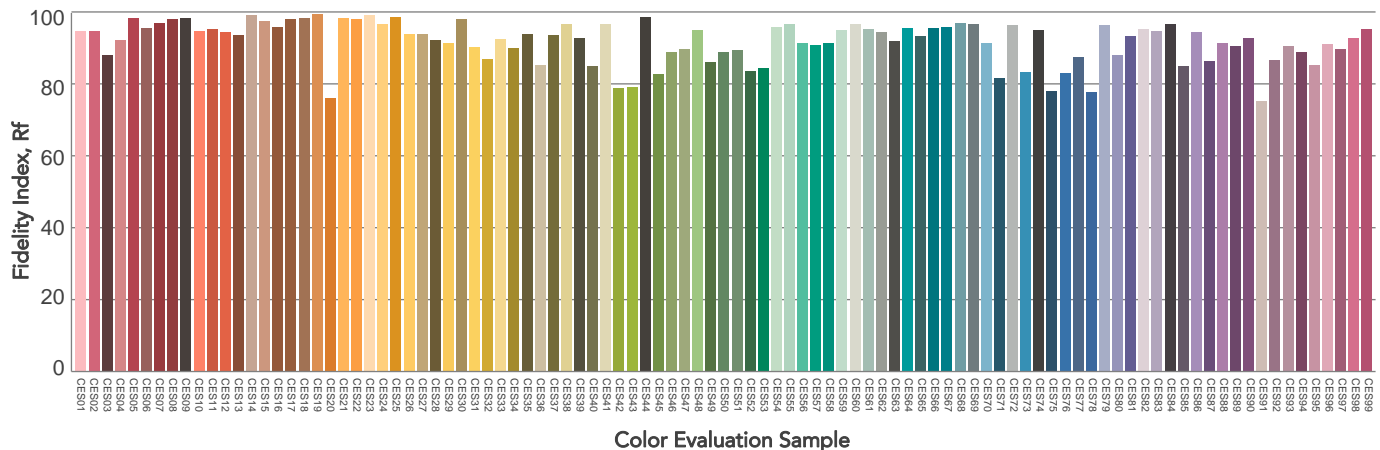
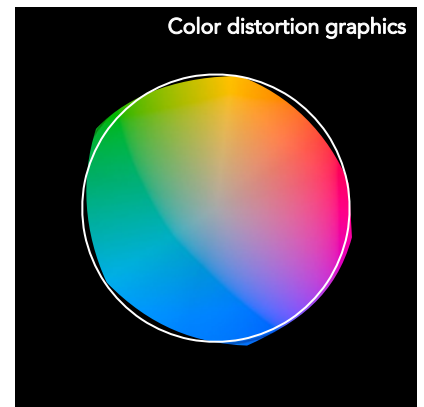
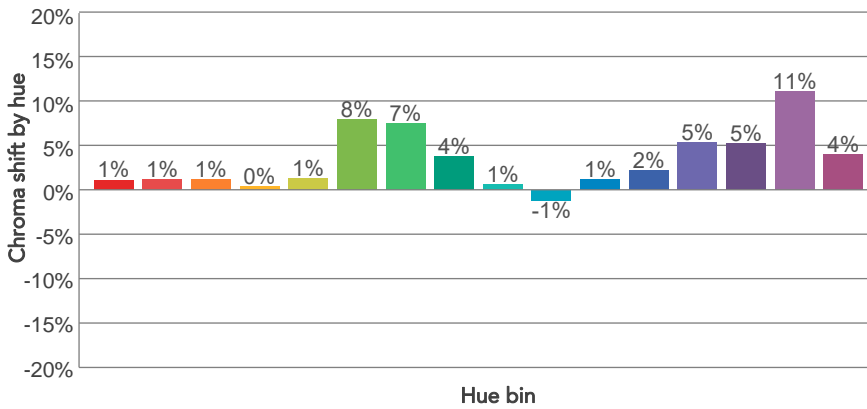
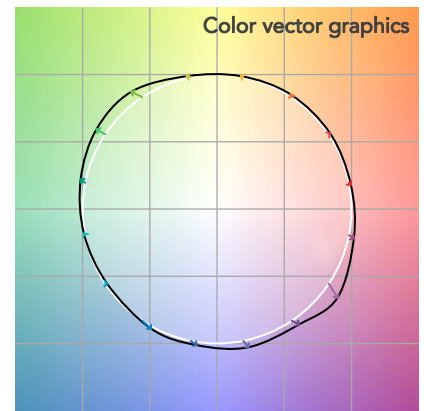
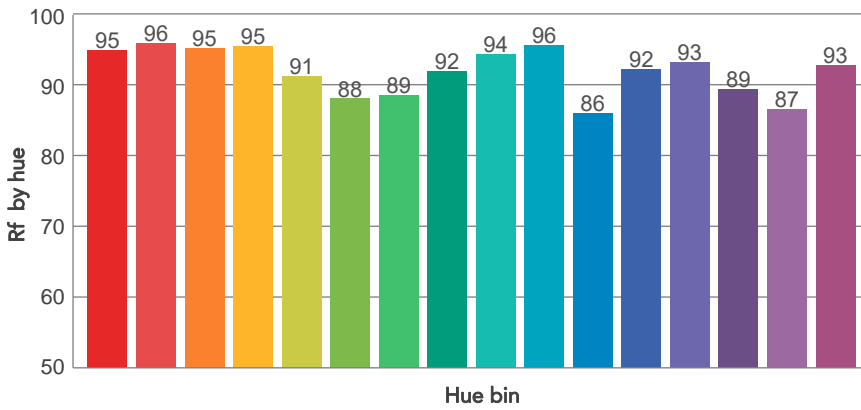
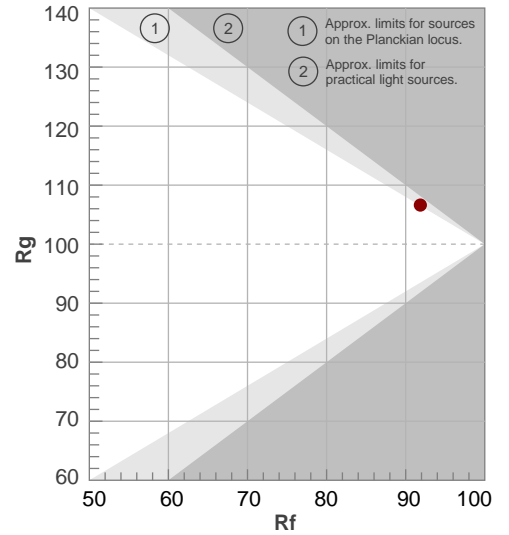
TM30 DETAILS



Rf 91,9
Fidelity index Rf

Rg 106,6
Gammut index

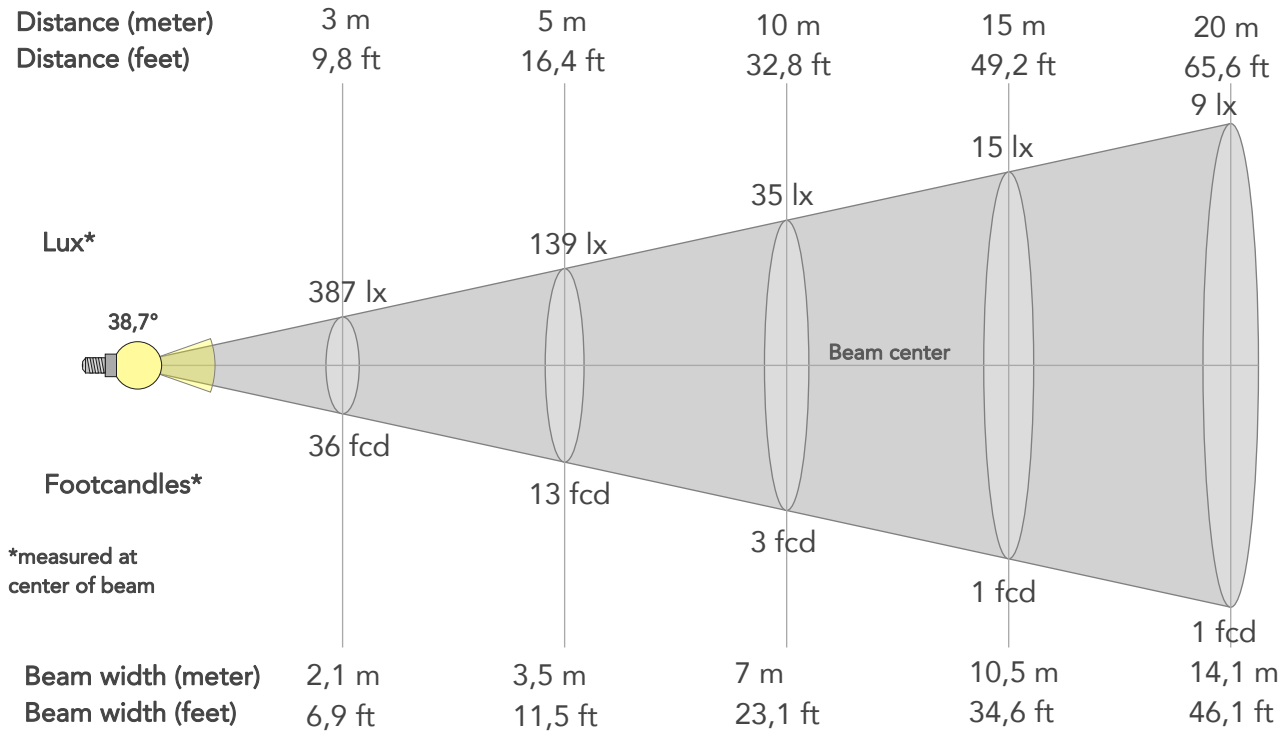
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	0%
3	95	1%	2%
4	95	0%	2%
5	91	1%	3%
6	88	8%	5%
7	89	7%	1%
8	92	4%	-2%
9	94	1%	-1%
10	96	-1%	1%
11	86	1%	9%
12	92	2%	5%
13	93	5%	3%
14	89	5%	3%
15	87	11%	-5%
16	93	4%	-2%



BEAM DETAILS



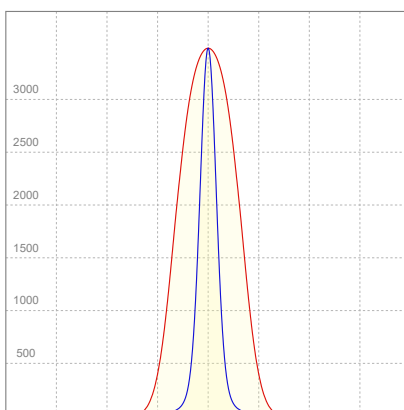
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38,7°	62,8°	79,6°	99,8%	94,5%



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	3484lx	871lx	387lx	218lx	139lx	62lx	35lx	15lx	9lx	6lx	4lx	2lx	1lx
Footcand.	324fcd	81fcd	36fcd	20fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,3m	7m	10,5m	14,1m	17,6m	21,1m	28,1m	35,2m
Beam wid.	2,3ft	4,6ft	6,9ft	9,2ft	11,5ft	17,3ft	23,1ft	34,6ft	46,1ft	57,7ft	69,2ft	92,3ft	115,3ft

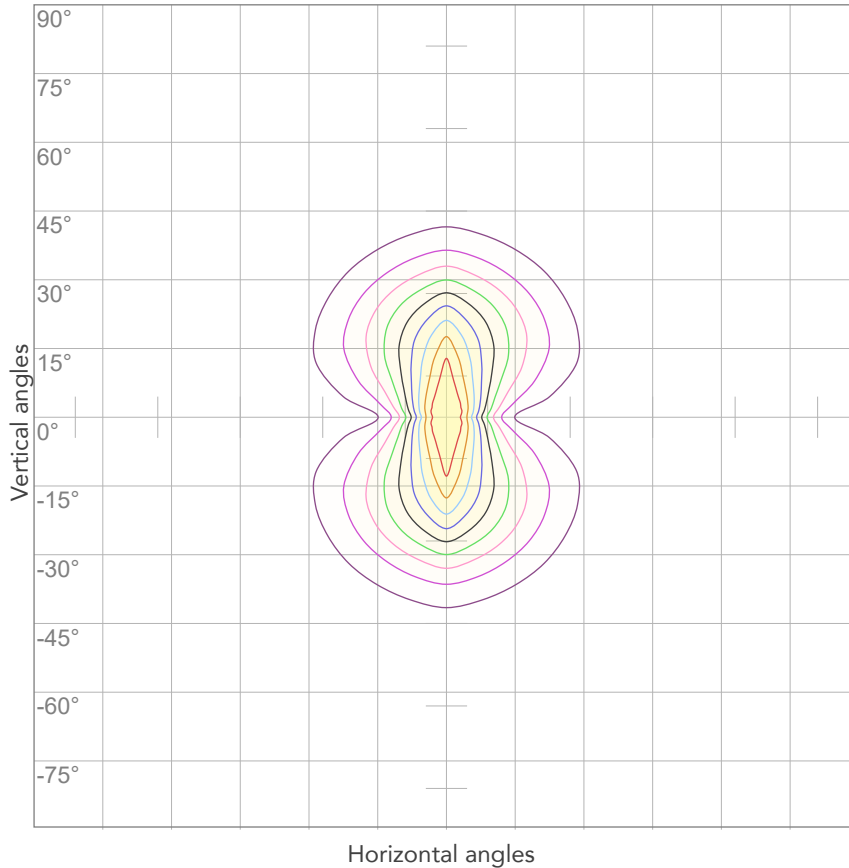
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,188A	39,5W	48lm/W

ISO CANDELA DIAGRAM



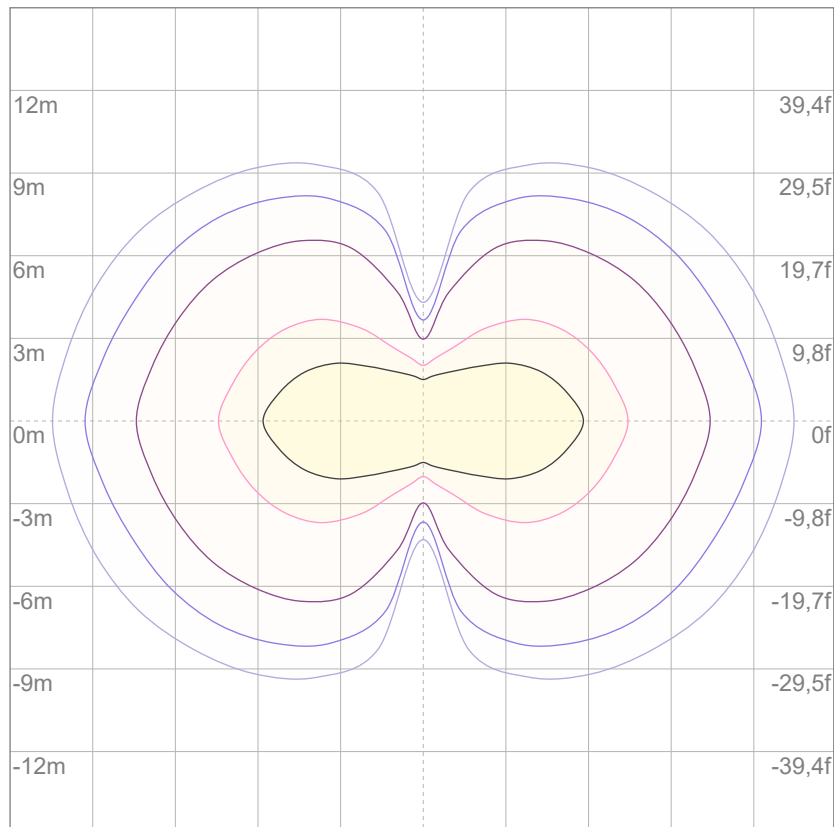
10%	348 cd
20%	697 cd
30%	1045 cd
40%	1393 cd
50%	1742 cd
60%	2090 cd
70%	2438 cd
80%	2787 cd

Conditions:

Number of c-planes: 4

Candela at center: 3484 cd

ISO LUX DIAGRAM



3%	1,05 lx
5%	1,74 lx
10%	3,48 lx
30%	10,5 lx
50%	17,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 34,8 lx

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



Total lumen output:

1258 lm

Peak candela output:

25422 cd

Light quality:

CRI: 91,6

Color temperature:

6245 K

PRODUCT NAME:
SMARTBATPLUSG2

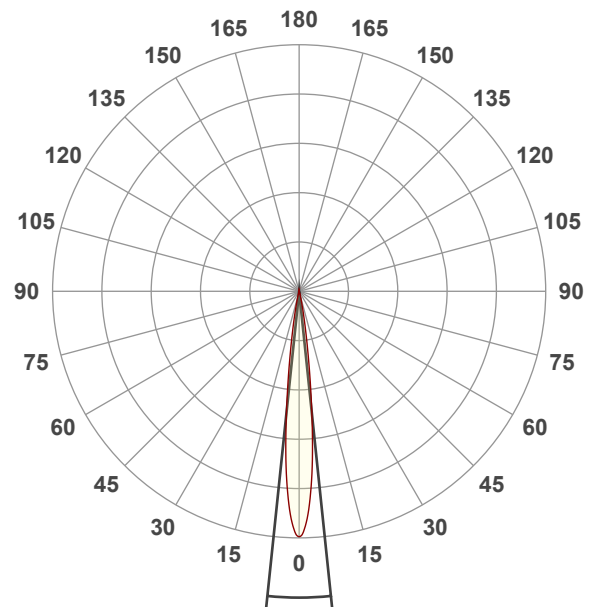
MEASUREMENT CONDITIONS:

Beam angle:
Native Optic (Without Filter)

Target:
6000K Cal.On.

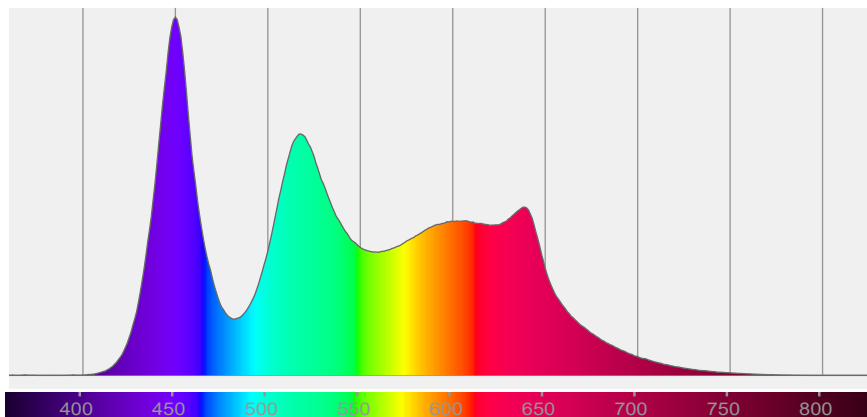
Operator:
Paolo Carvone

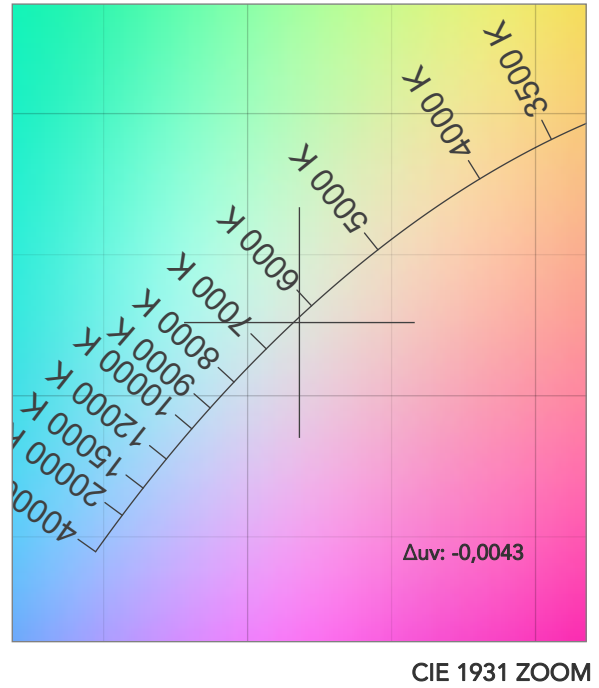
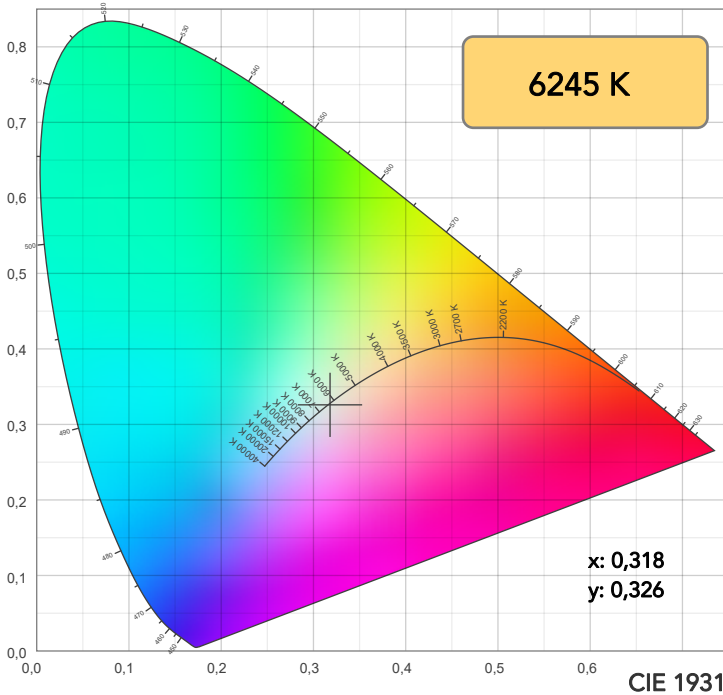
Date and time:
10/06/2022 13:05:46



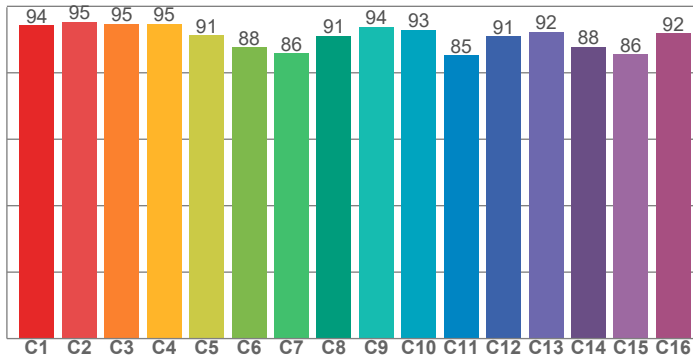
Beam angle 50%: 11,9°
Field angle 10%: 21,2°
Cut off angle 2.5%: 28°

Spectra

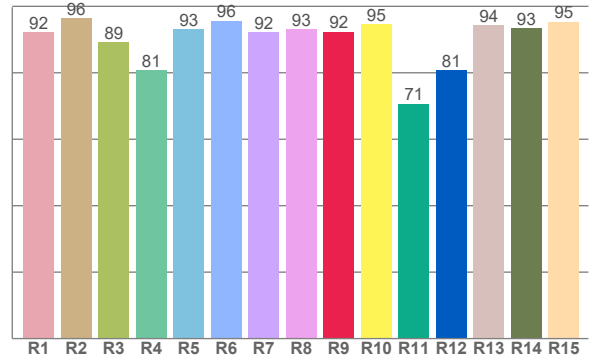




TM30: 91,1



CRI: 91,6 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,2	96,3	89,2	80,8	93,1	95,7	92,2	93,0	92,3	94,7	70,7	80,7	94,3	93,3	95,3

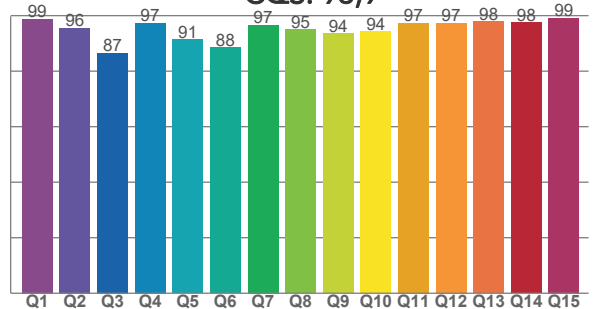
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,8	95,6	86,6	97,3	91,4	88,4	96,6	95,0	93,5	94,2	97,4	97,4	97,9	97,6	99,1

CQS: 93,9



COLOR PARAMETERS

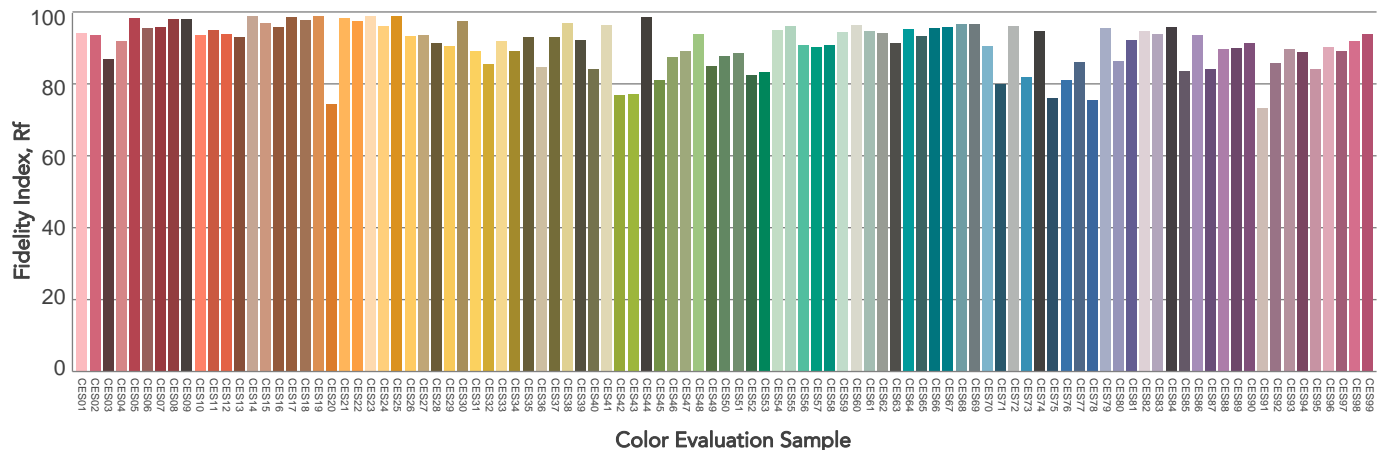
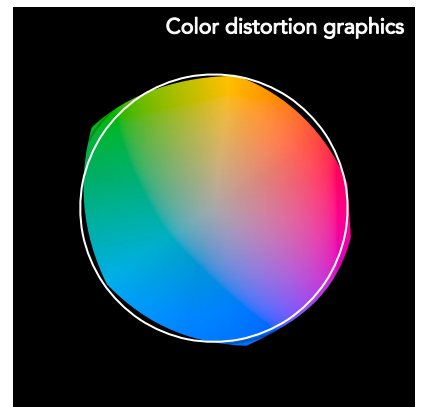
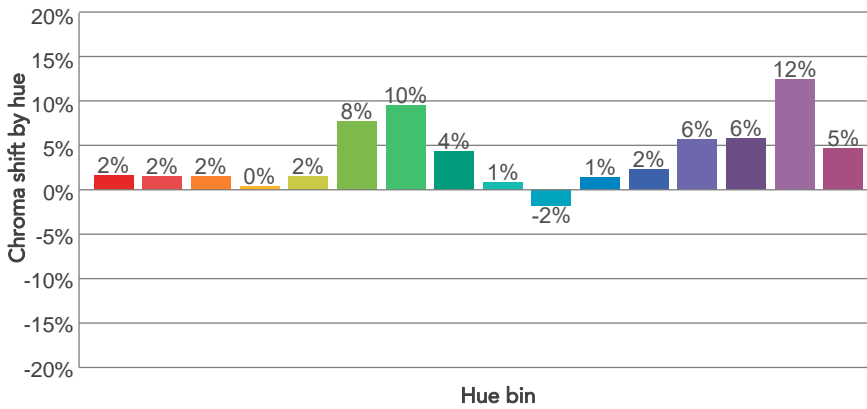
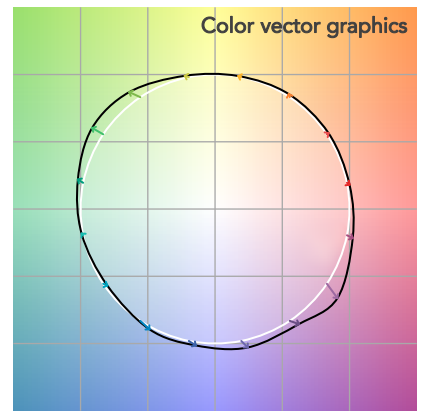
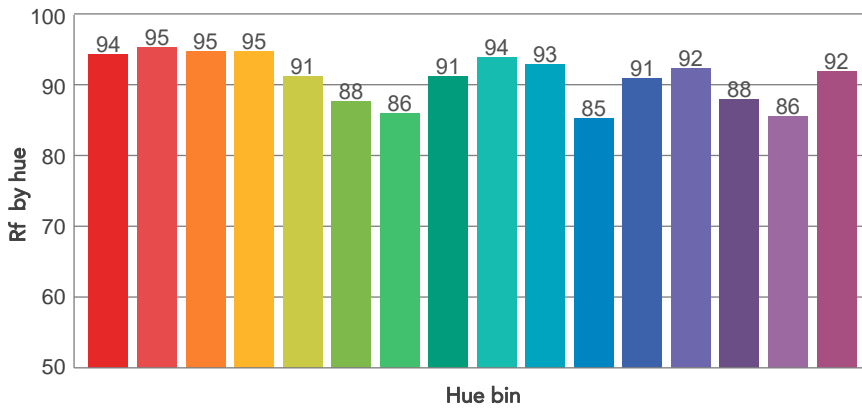
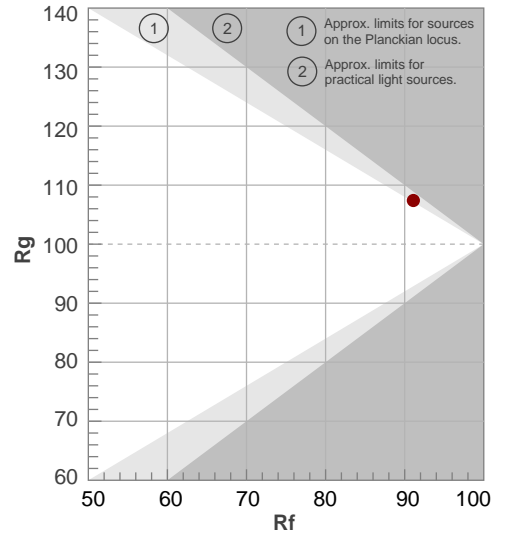
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6245 K	91,6	92,3	91,1	107,4	93,9	85	0,318	0,326	-0,0043

TM30 DETAILS

Rf 91,1
Fidelity index Rf

Rg 107,4
Gammut index

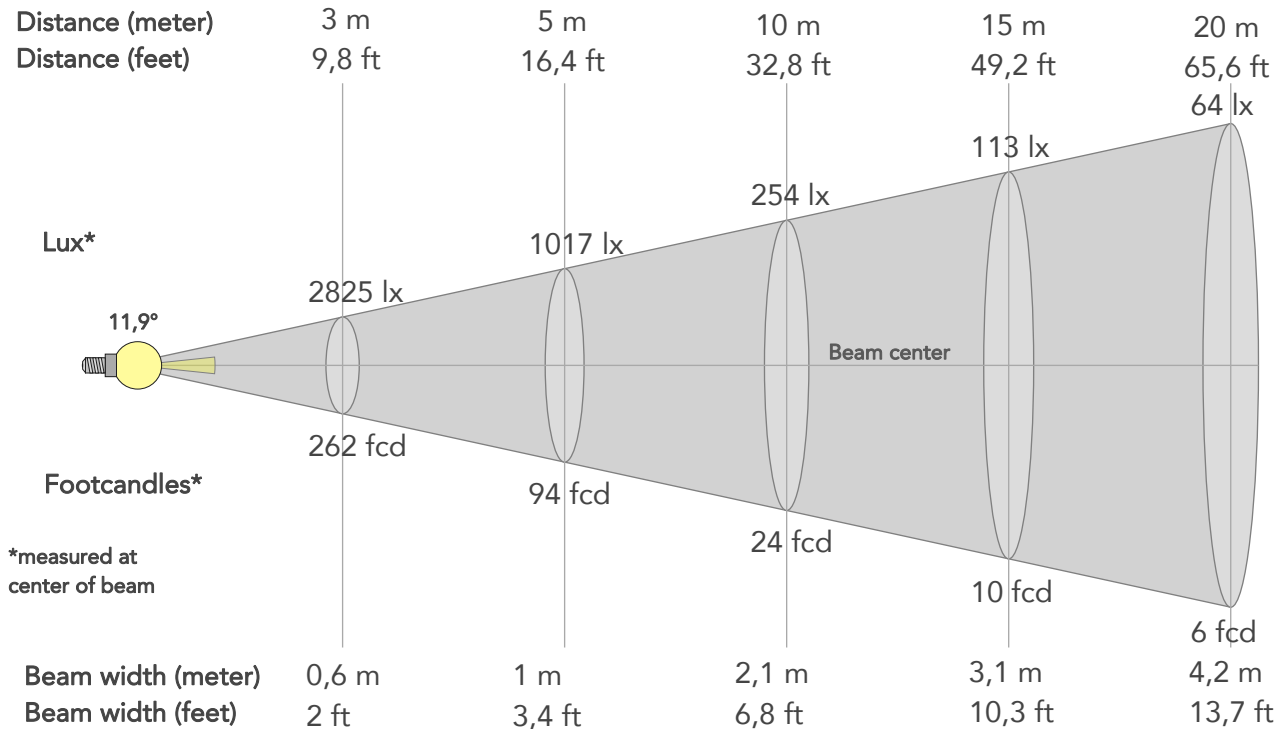
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	2%	-2%
2	95	2%	0%
3	95	2%	2%
4	95	0%	2%
5	91	2%	3%
6	88	8%	5%
7	86	10%	1%
8	91	4%	-2%
9	94	1%	-1%
10	93	-2%	3%
11	85	1%	9%
12	91	2%	6%
13	92	6%	4%
14	88	6%	4%
15	86	12%	-5%
16	92	5%	-1%



BEAM DETAILS



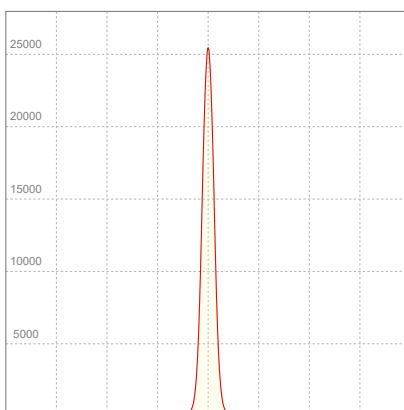
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,9°	21,2°	28°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	25422lx	6355lx	2825lx	1589lx	1017lx	452lx	254lx	113lx	64lx	41lx	28lx	16lx	10lx
Footcand.	2362fcd	590fcd	262fcd	148fcd	94fcd	42fcd	24fcd	10fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,6m	2,1m	3,1m	4,2m	5,2m	6,3m	8,3m	10,4m
Beam wid.	0,7ft	1,4ft	2ft	2,7ft	3,4ft	5,1ft	6,8ft	10,3ft	13,7ft	17,1ft	20,5ft	27,3ft	34,2ft

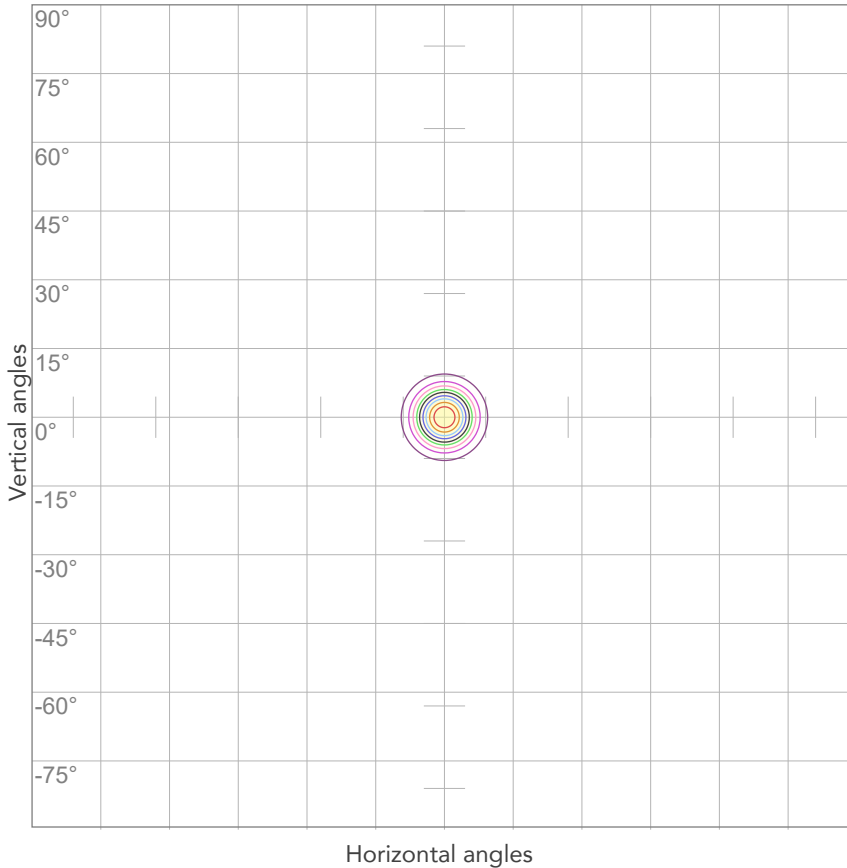
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,195A	40,8W	31lm/W

ISO CANDELA DIAGRAM



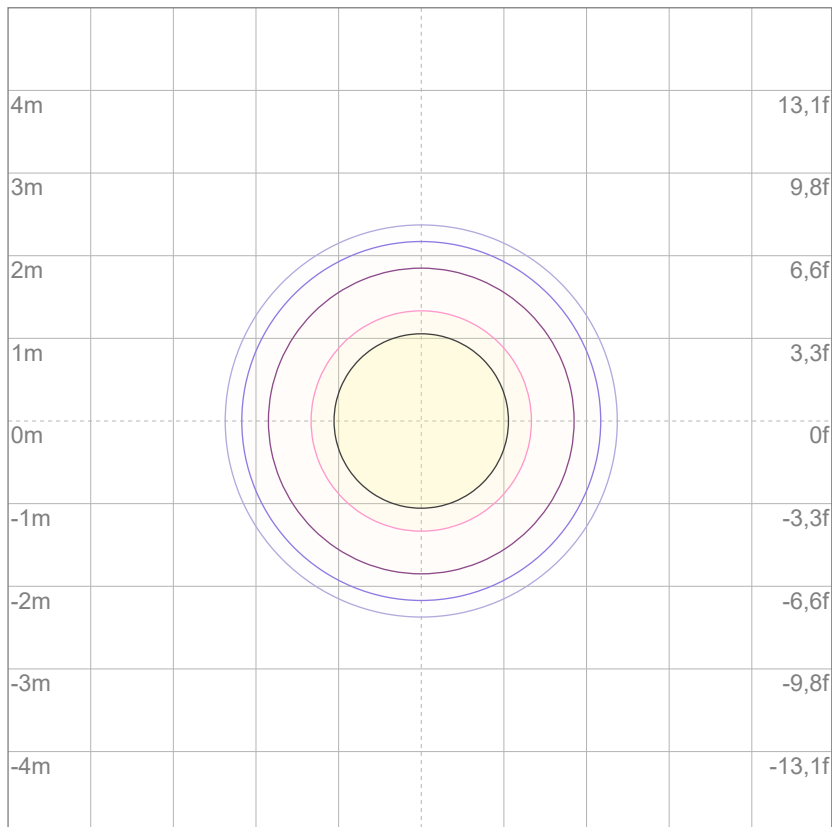
10%	2542 cd
20%	5084 cd
30%	7627 cd
40%	10169 cd
50%	12711 cd
60%	15253 cd
70%	17795 cd
80%	20337 cd

Conditions:

Number of c-planes: 2

Candela at center: 25422 cd

ISO LUX DIAGRAM



3%	7,63 lx
5%	12,7 lx
10%	25,4 lx
30%	76,3 lx
50%	127 lx

Conditions:

Number of c-planes: 2

Lux at center: 254 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:

1265 lm

Peak candela output:

5439 cd

Light quality:

CRI: 92,4

Color temperature:

6240 K

PRODUCT NAME:
SMARTBATPLUSG2

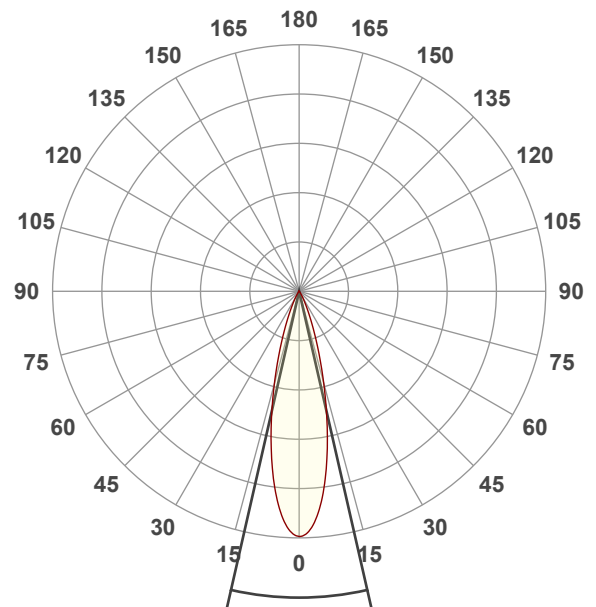
MEASUREMENT CONDITIONS:

Beam angle:
20° Filter

Target:
6000K Cal.On.

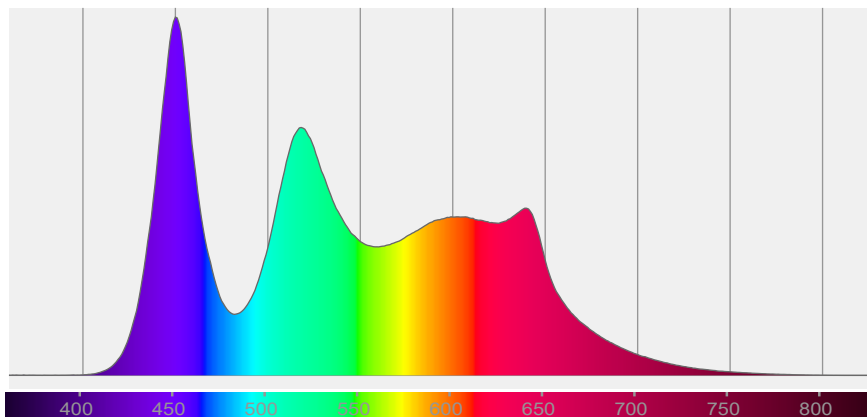
Operator:
Paolo Carvone

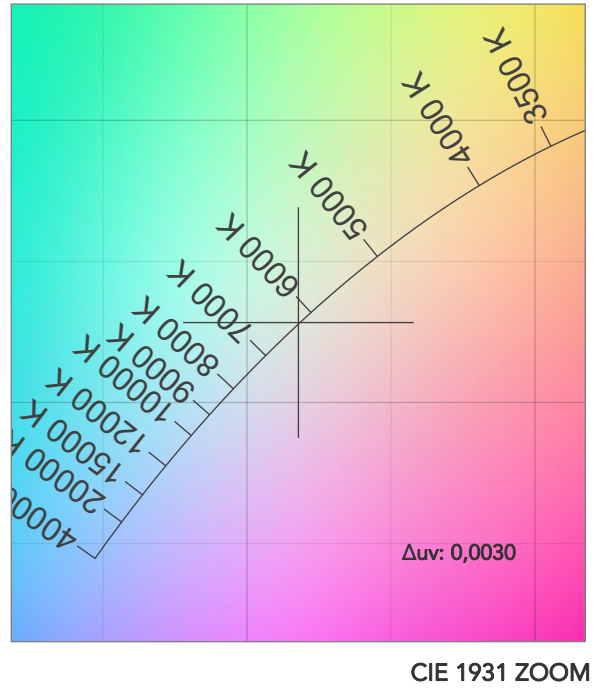
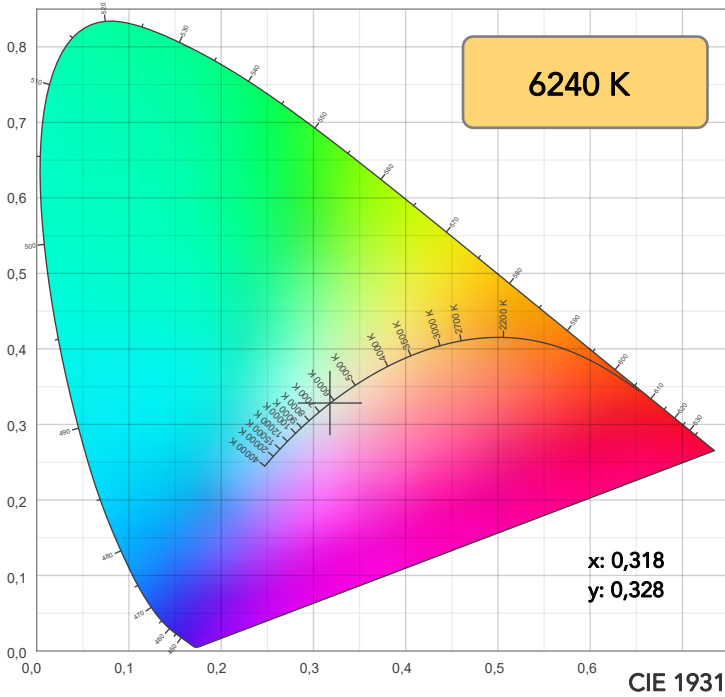
Date and time:
13/06/2022 15:18:19



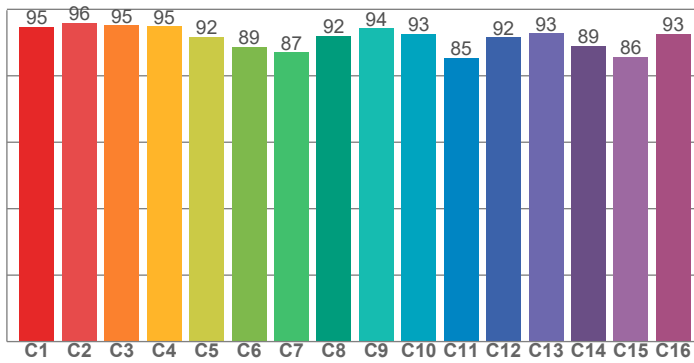
Beam angle 50%: 25,7°
Field angle 10%: 47,2°
Cut off angle 2.5%: 61,8°

Spectra

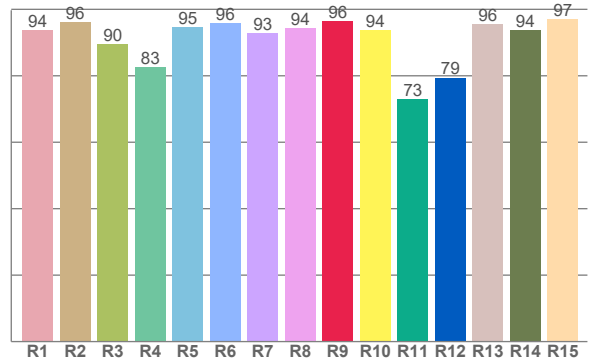




TM30: 91,6



CRI: 92,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,7	96,1	89,6	82,6	94,5	95,8	92,8	94,4	96,5	93,7	73,0	79,4	95,6	93,6	97,0

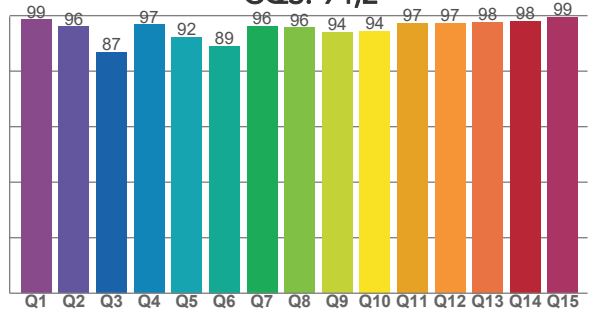
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	95,9	95,2	94,9	91,7	88,7	87,0	92,1	94,3	92,6	85,4	91,5	92,8	88,9	85,8	92,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,5	96,0	86,9	96,8	92,3	89,1	96,2	95,7	94,0	94,4	97,3	97,2	97,7	98,0	99,4

CQS: 94,2



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6240 K	92,4	96,5	91,6	106,6	94,2	87	0,318	0,328	0,0030

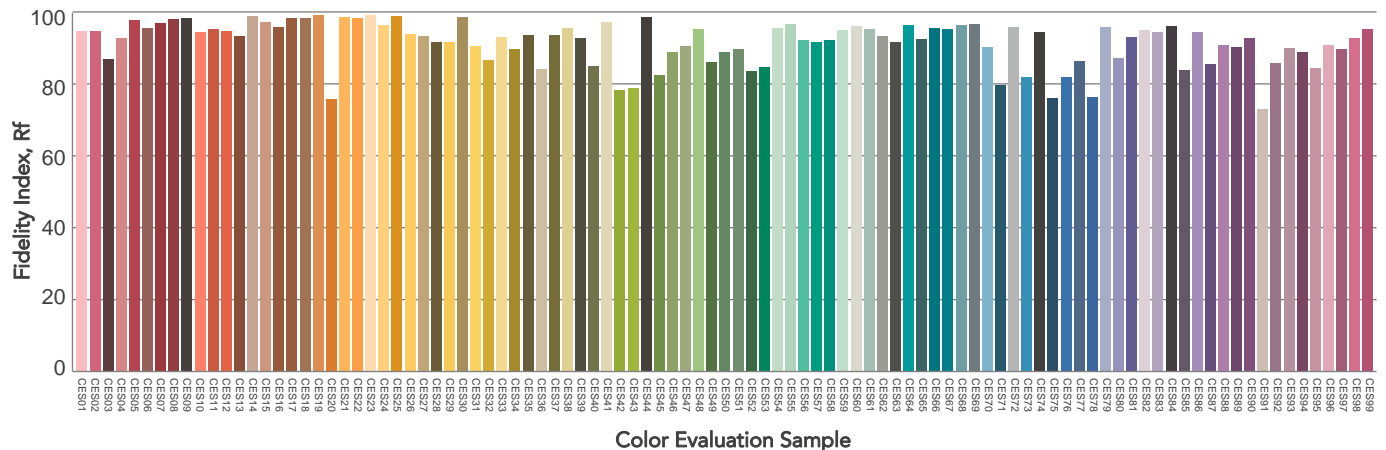
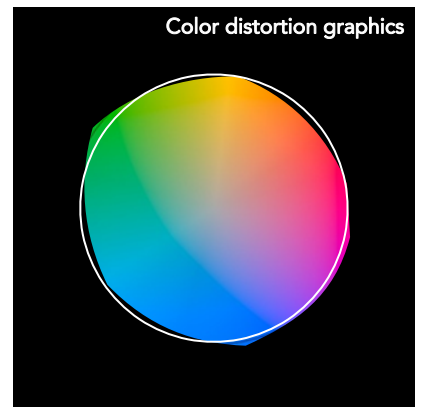
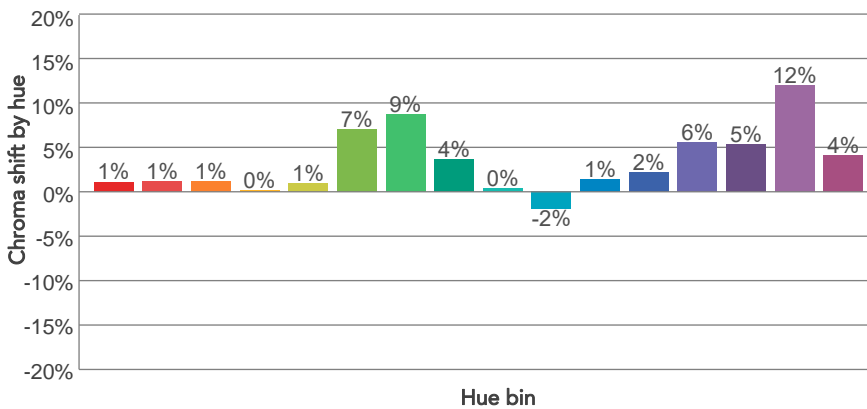
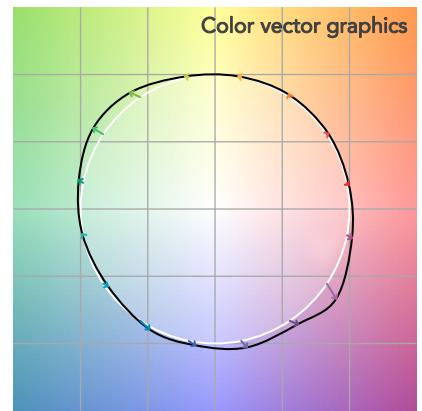
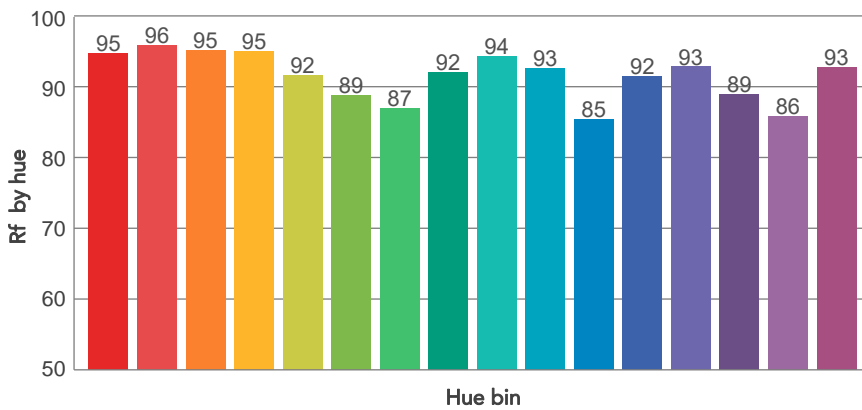
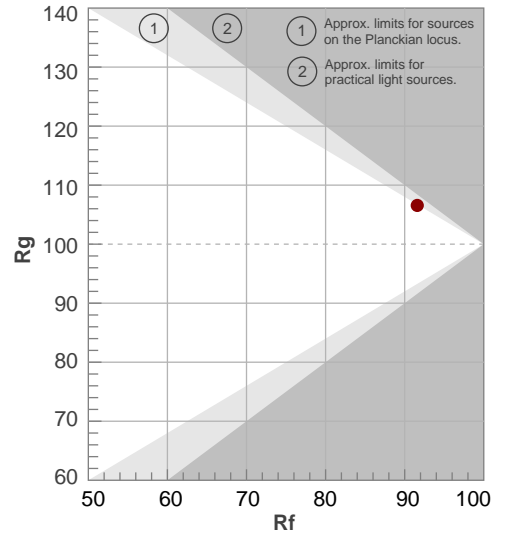
TM30 DETAILS



Rf 91,6
Fidelity index Rf

Rg 106,6
Gammut index

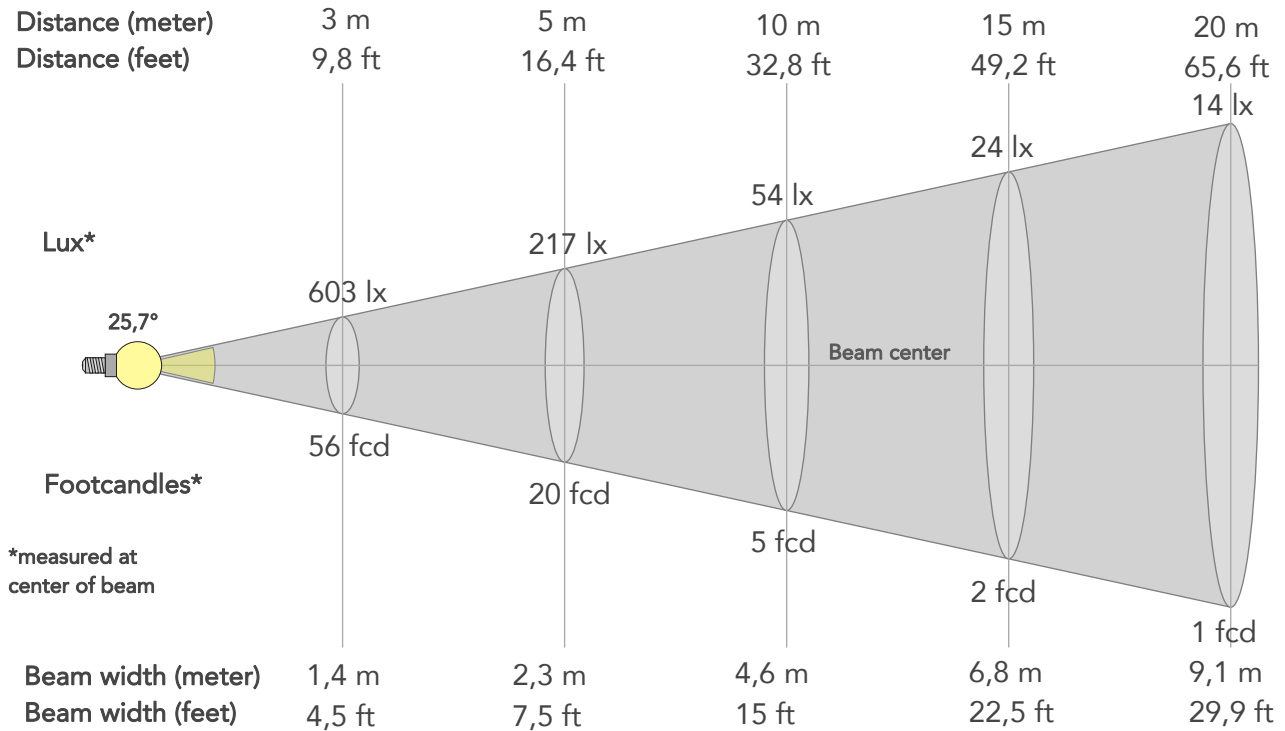
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	0%
3	95	1%	2%
4	95	0%	2%
5	92	1%	3%
6	89	7%	4%
7	87	9%	0%
8	92	4%	-1%
9	94	0%	-1%
10	93	-2%	3%
11	85	1%	9%
12	92	2%	5%
13	93	6%	3%
14	89	5%	4%
15	86	12%	-5%
16	93	4%	-1%



BEAM DETAILS



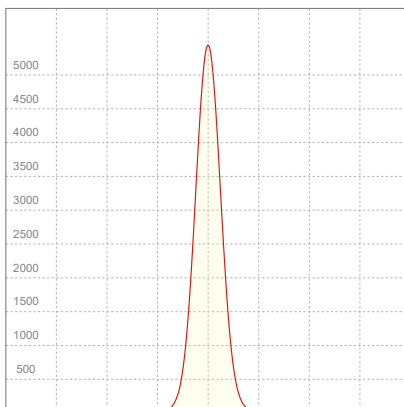
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,7°	47,2°	61,8°	100,0%	99,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	5430lx	1358lx	603lx	339lx	217lx	97lx	54lx	24lx	14lx	9lx	6lx	3lx	2lx
Footcand.	504fcd	126fcd	56fcd	32fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,6m	6,8m	9,1m	11,4m	13,7m	18,3m	22,8m
Beam wid.	1,5ft	3ft	4,5ft	6ft	7,5ft	11,2ft	15ft	22,5ft	29,9ft	37,4ft	44,9ft	59,9ft	74,8ft

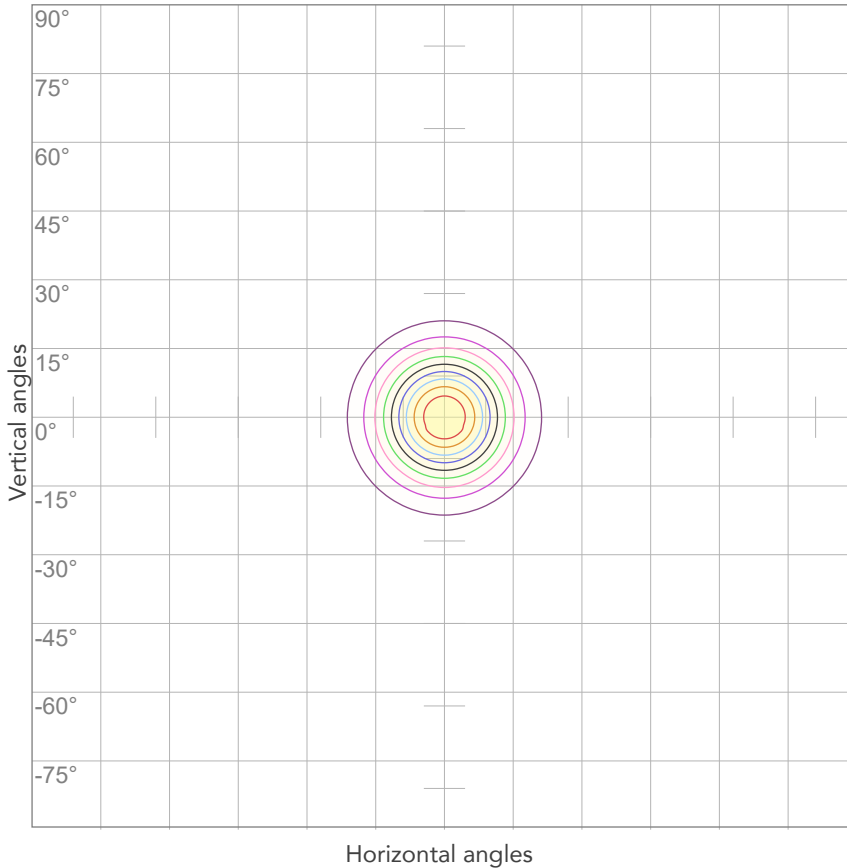
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,194A	40,4W	31lm/W

ISO CANDELA DIAGRAM



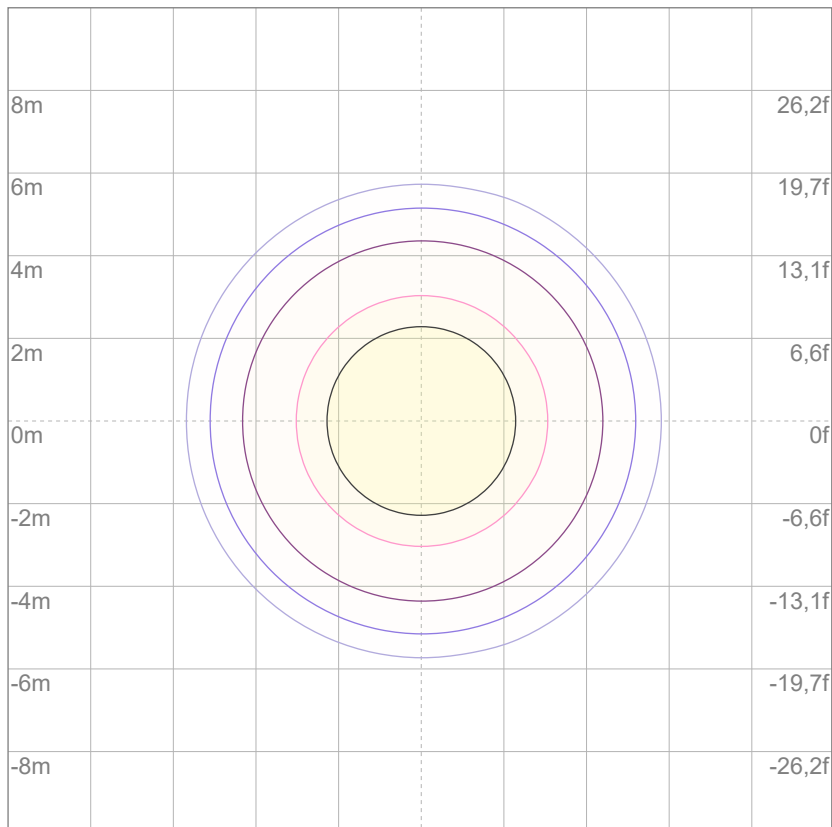
10%	543 cd
20%	1086 cd
30%	1629 cd
40%	2172 cd
50%	2715 cd
60%	3258 cd
70%	3801 cd
80%	4344 cd

Conditions:

Number of c-planes: 2

Candela at center: 5430 cd

ISO LUX DIAGRAM



3%	1,63 lx
5%	2,72 lx
10%	5,43 lx
30%	16,3 lx
50%	27,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 54,3 lx

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



Total lumen output:

1287 lm

Peak candela output:

2019 cd

Light quality:

CRI: 92,2

Color temperature:

6237 K

PRODUCT NAME:
SMARTBATPLUSG2

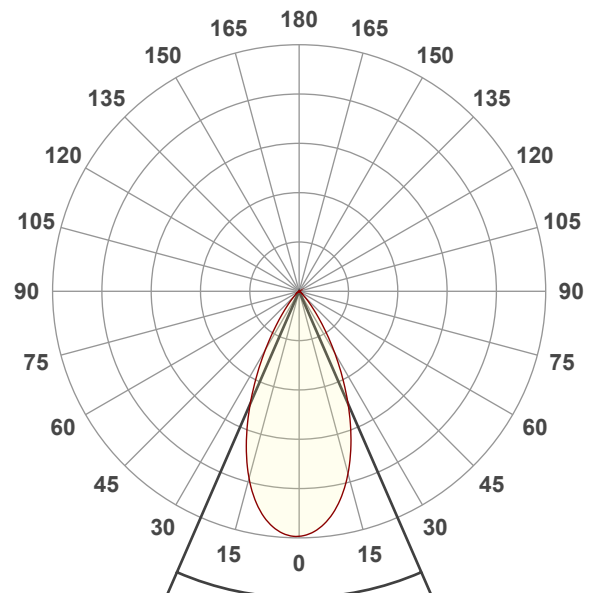
MEASURAMENT CONDITIONS:

Beam angle:
40° Filter

Target:
6000K Cal.On.

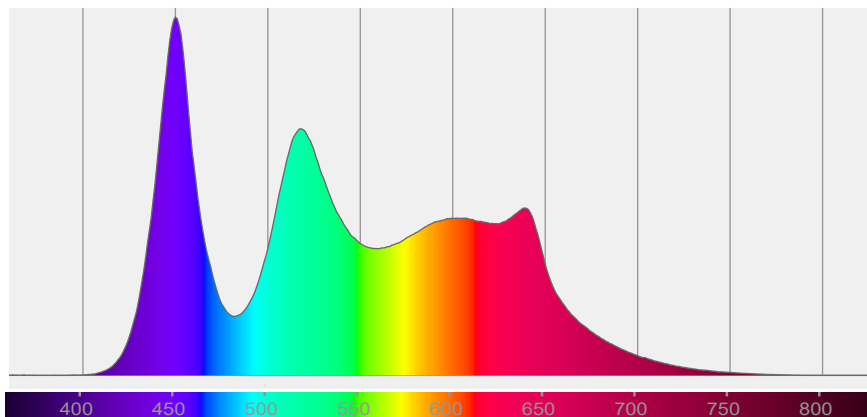
Operator:
Paolo Carvone

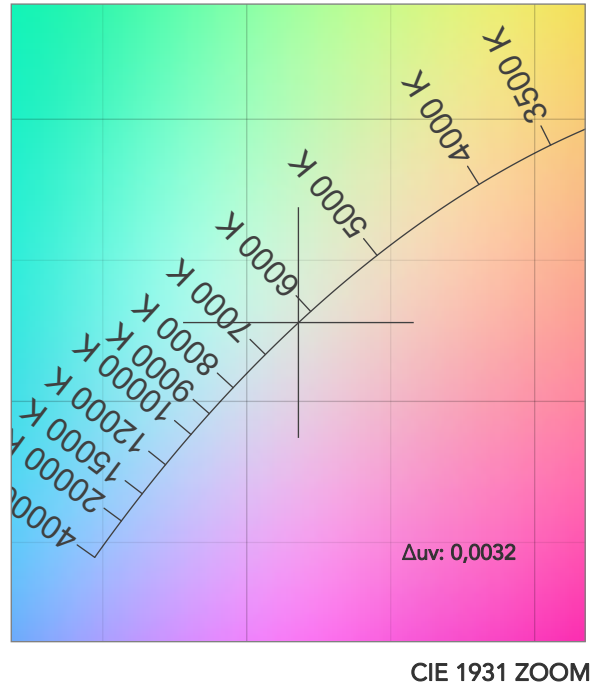
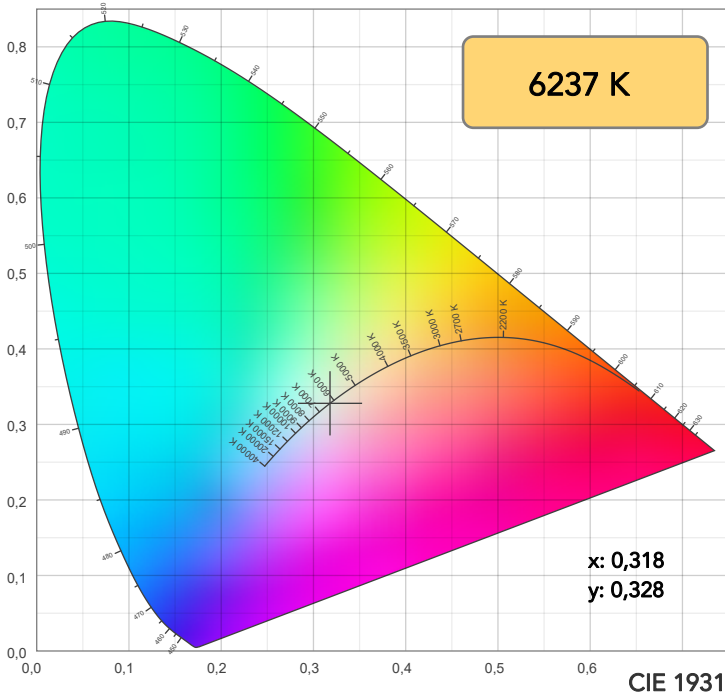
Date and time:
13/06/2022 14:56:17



Beam angle 50%: 47°
Field angle 10%: 75,9°
Cut off angle 2.5%: 92,1°

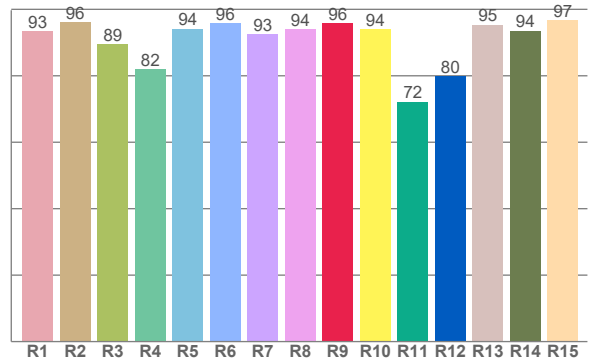
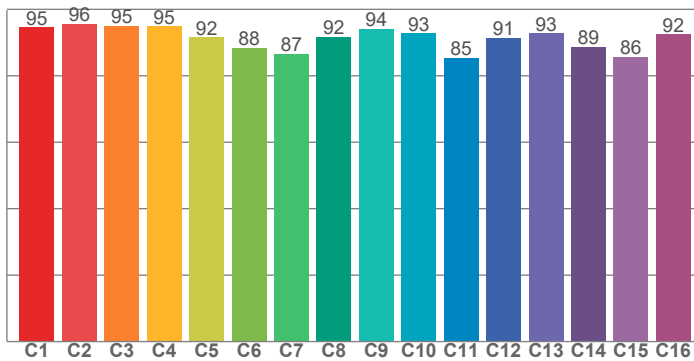
Spectra





TM30: 91,4

CRI: 92,2 (R1-R8)



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

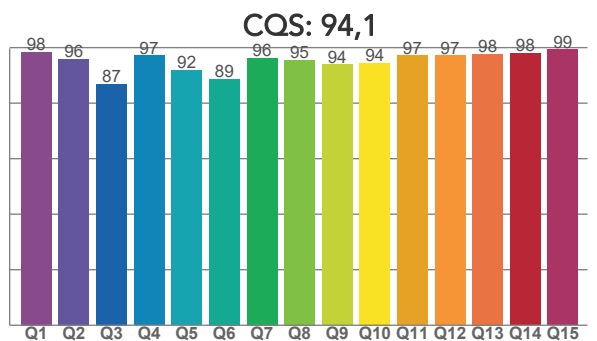
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,3	96,2	89,5	82,0	94,1	95,8	92,6	94,1	95,9	94,0	72,2	79,8	95,3	93,6	96,7

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

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,5	95,9	86,9	97,1	91,9	88,7	96,3	95,5	94,0	94,4	97,2	97,2	97,7	98,0	99,3



COLOR PARAMETERS

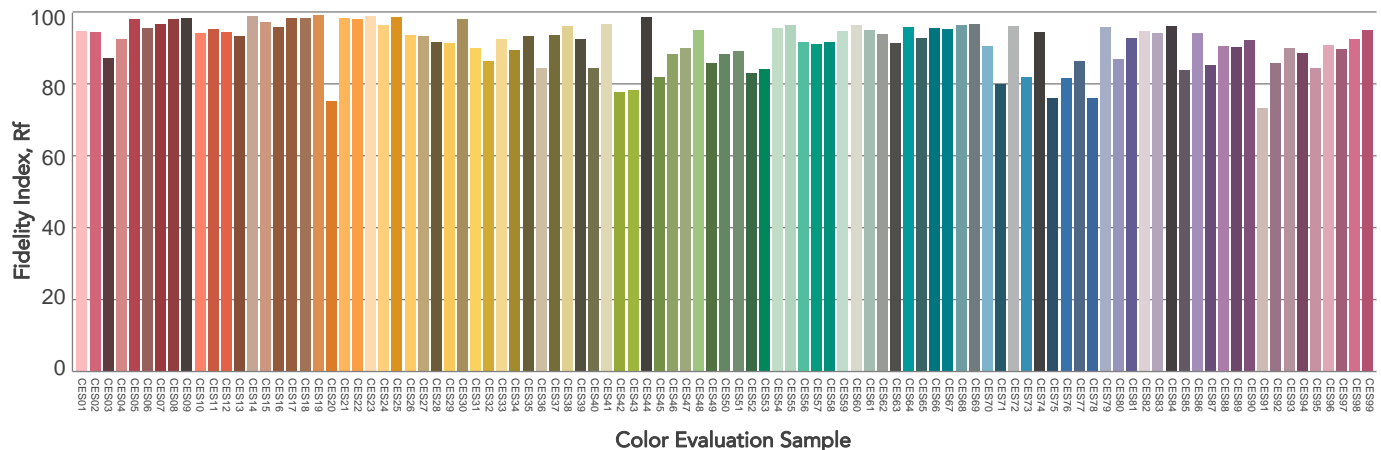
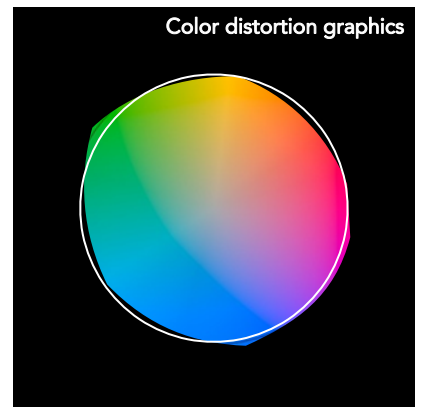
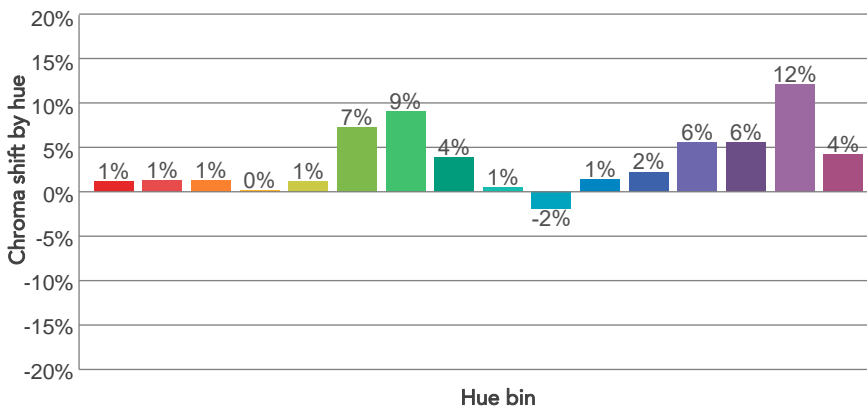
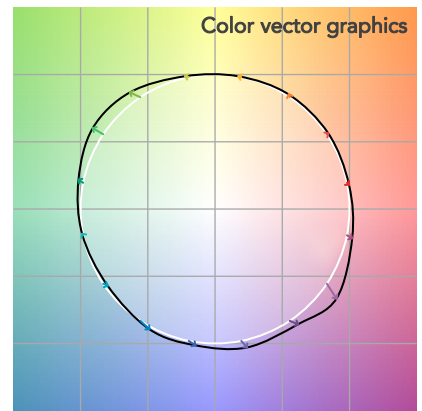
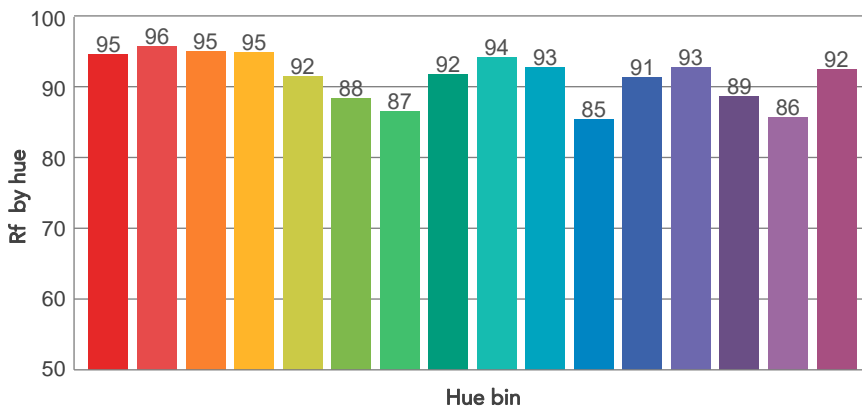
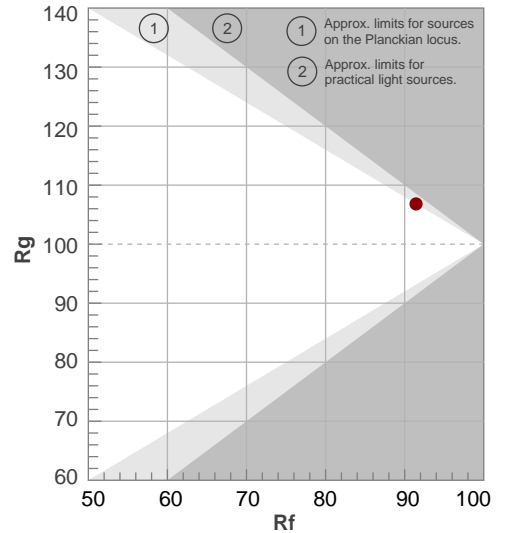
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6237 K	92,2	95,9	91,4	106,8	94,1	86	0,318	0,328	0,0032

TM30 DETAILS

Rf 91,4
Fidelity index Rf

Rg 106,8
Gammut index

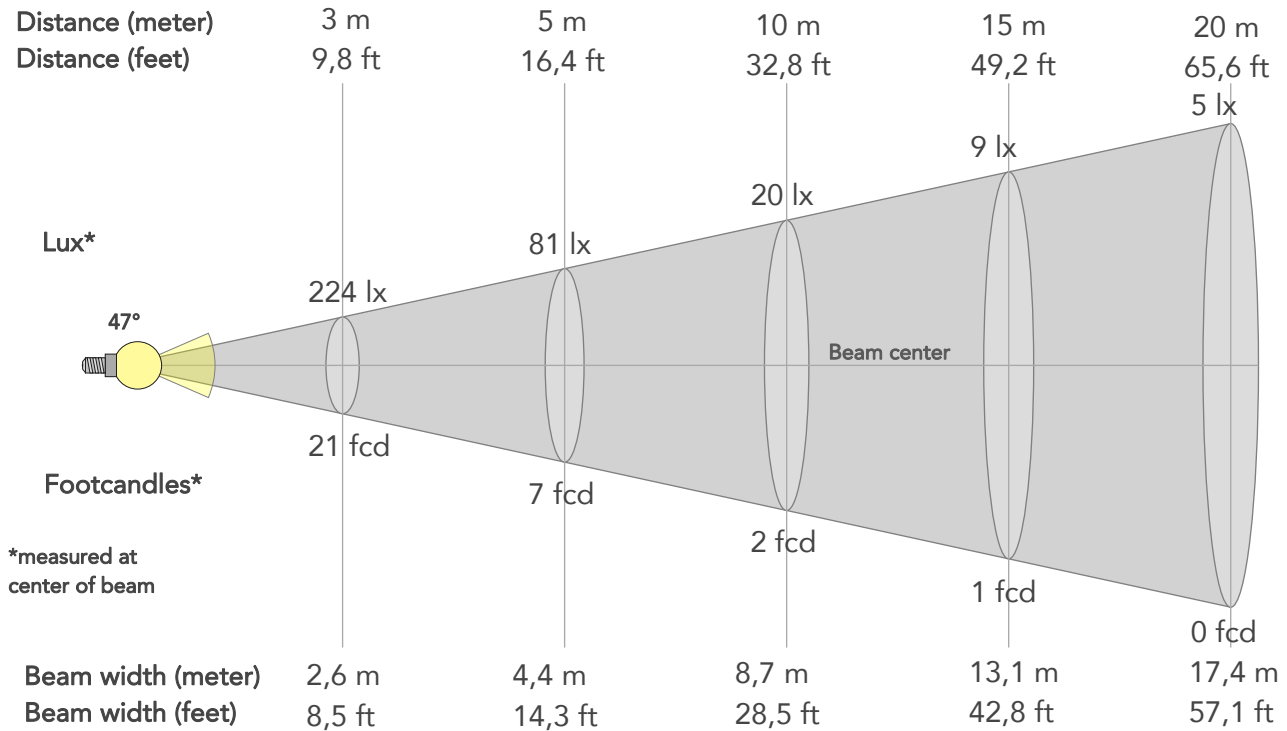
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	0%
3	95	1%	2%
4	95	0%	2%
5	92	1%	3%
6	88	7%	4%
7	87	9%	0%
8	92	4%	-2%
9	94	1%	-1%
10	93	-2%	3%
11	85	1%	9%
12	91	2%	5%
13	93	6%	3%
14	89	6%	4%
15	86	12%	-5%
16	92	4%	-1%



BEAM DETAILS



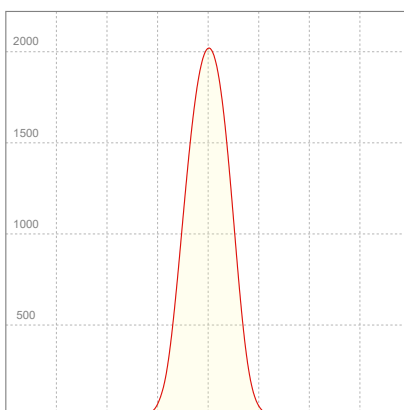
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47°	75,9°	92,1°	100,0%	98,1%



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	2016lx	504lx	224lx	126lx	81lx	36lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	187fcd	47fcd	21fcd	12fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,4m	6,5m	8,7m	13,1m	17,4m	21,8m	26,1m	34,8m	43,5m
Beam wid.	2,9ft	5,7ft	8,5ft	11,4ft	14,3ft	21,4ft	28,5ft	42,8ft	57,1ft	71,3ft	85,6ft	114,1ft	142,7ft

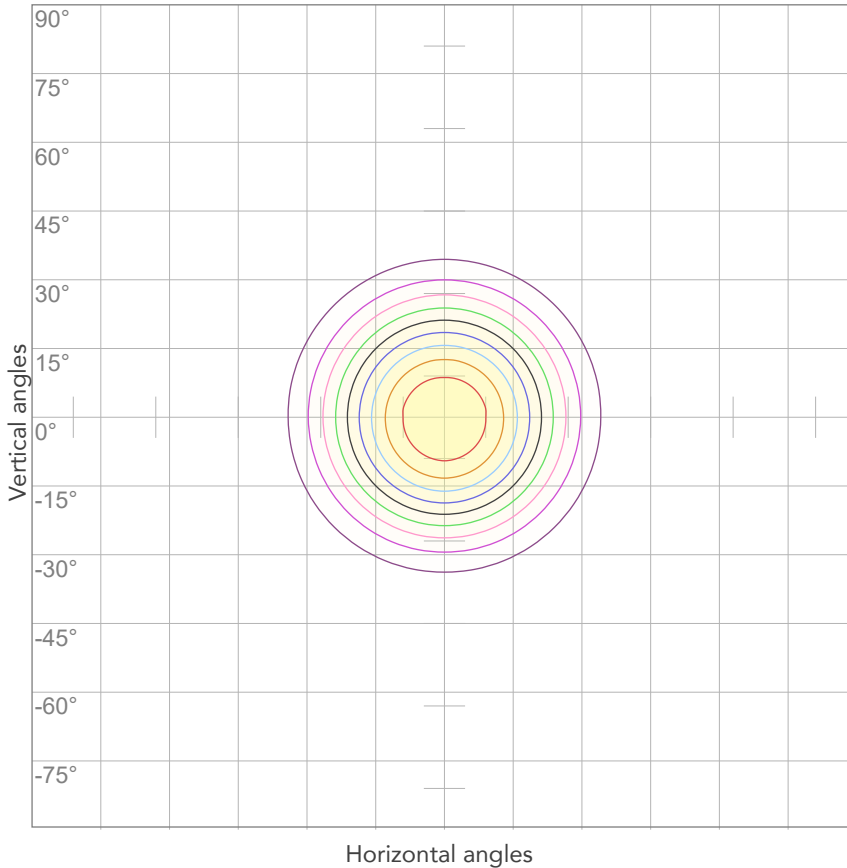
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,194A	40,5W	32lm/W

ISO CANDELA DIAGRAM



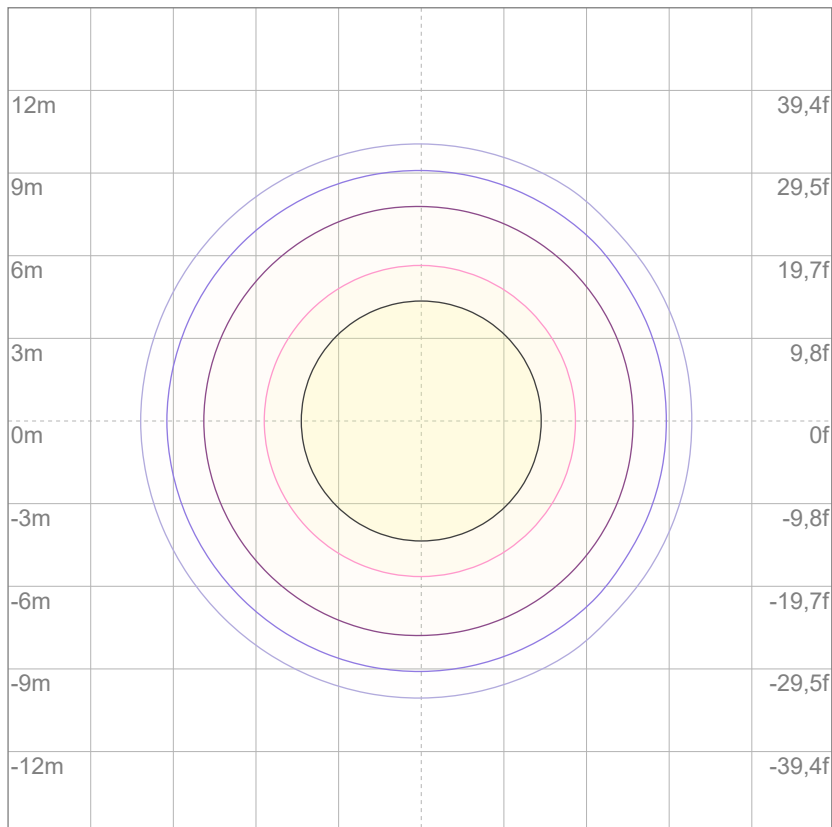
10%	202 cd
20%	403 cd
30%	605 cd
40%	806 cd
50%	1008 cd
60%	1209 cd
70%	1411 cd
80%	1613 cd

Conditions:

Number of c-planes: 2

Candela at center: 2016 cd

ISO LUX DIAGRAM



3%	0,605 lx
5%	1,01 lx
10%	2,02 lx
30%	6,05 lx
50%	10,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 20,2 lx

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



Total lumen output:

1273 lm

Peak candela output:

1517 cd

Light quality:

CRI: 92,1

Color temperature:

6210 K

PRODUCT NAME:

SMARTBATPLUSG2

MEASURAMENT CONDITIONS:

Beam angle:

60° Filter

Target:

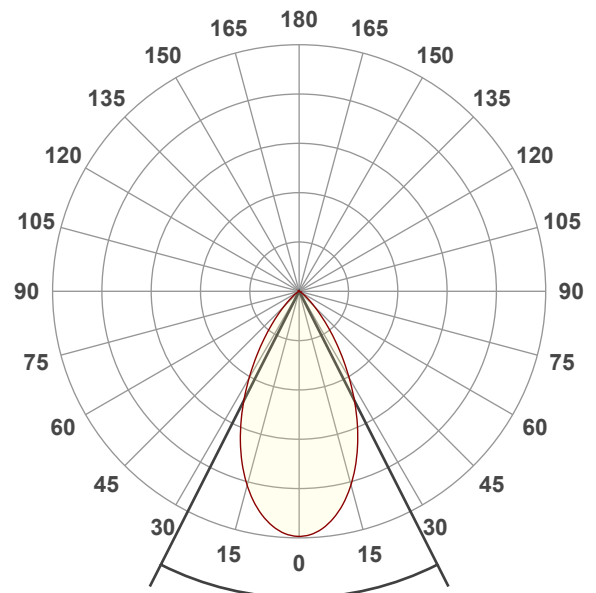
6000K Cal.On.

Operator:

Paolo Carvone

Date and time:

13/06/2022 14:34:56

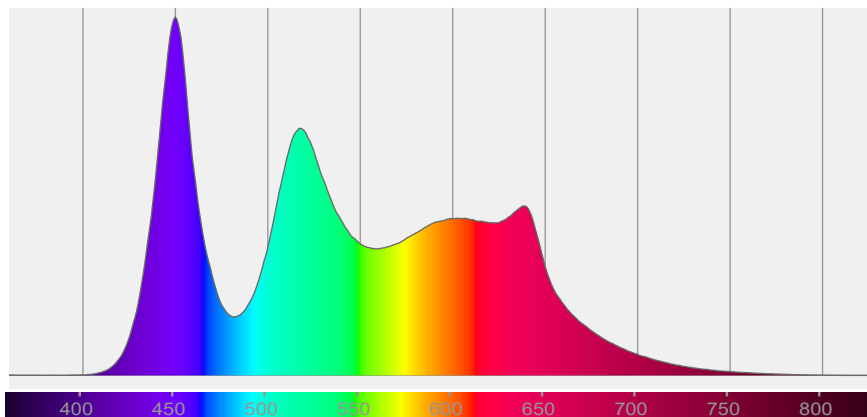


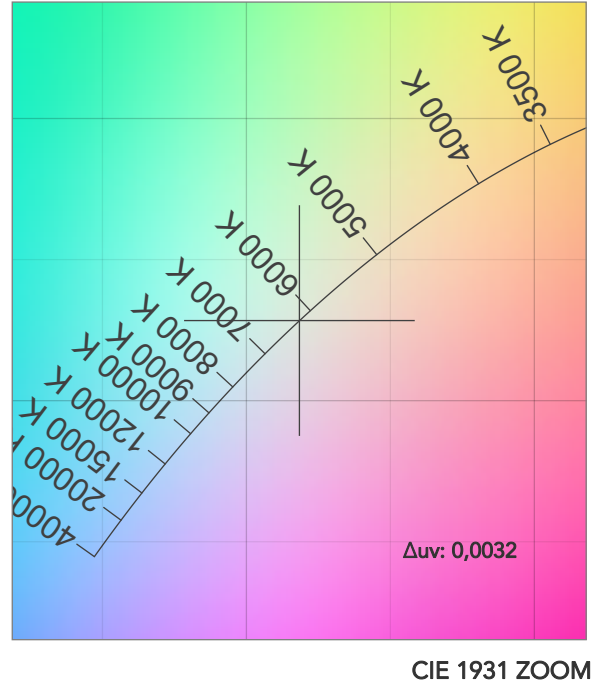
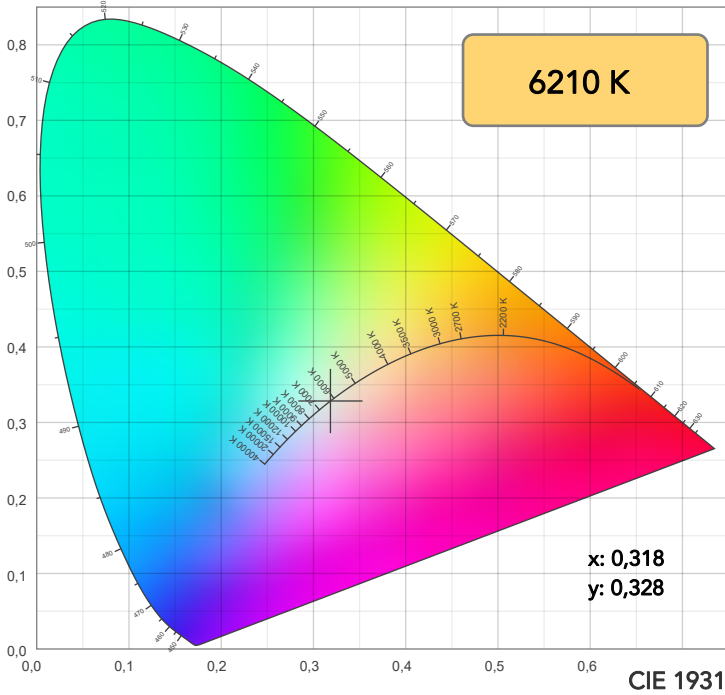
Beam angle 50%: 53,7°

Field angle 10%: 88,5°

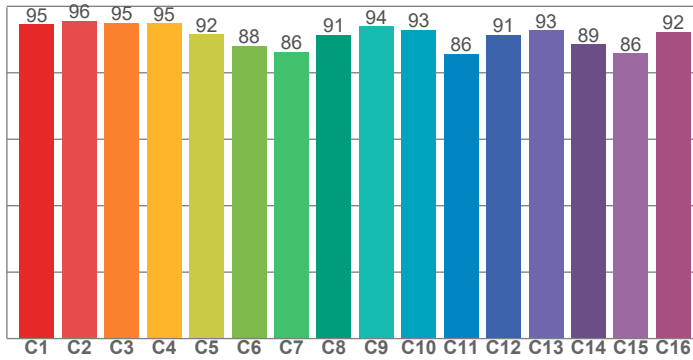
Cut off angle 2.5%: 107,1°

Spectra

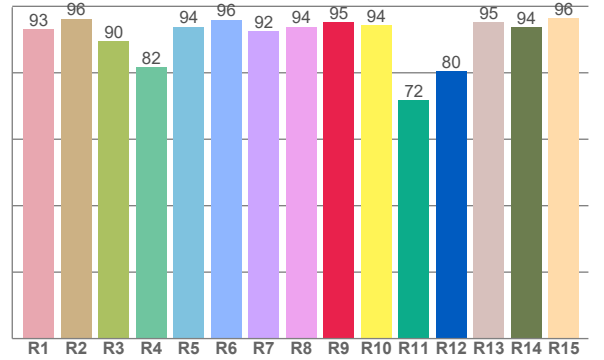




TM30: 91,4



CRI: 92,1 (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
93,2	96,2	89,6	81,6	93,8	96,0	92,5	93,8	95,2	94,3	71,7	80,4	95,2	93,6	96,5

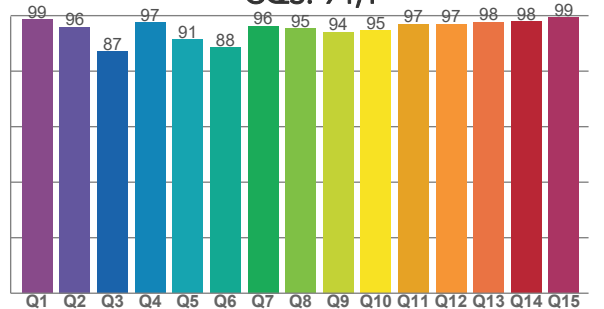
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,5	95,6	95,0	94,9	91,6	88,2	86,3	91,5	94,0	93,0	85,6	91,5	92,7	88,5	85,8	92,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,5	95,9	87,1	97,5	91,4	88,5	96,3	95,4	94,1	94,6	96,9	97,0	97,6	97,9	99,3

CQS: 94,1



COLOR PARAMETERS

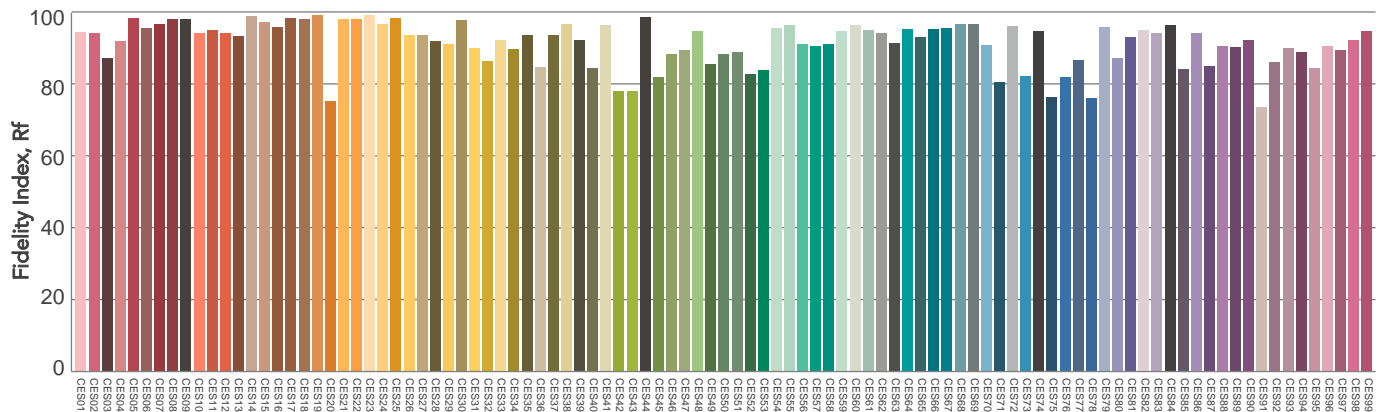
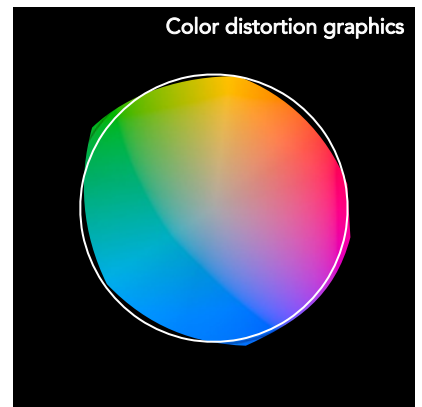
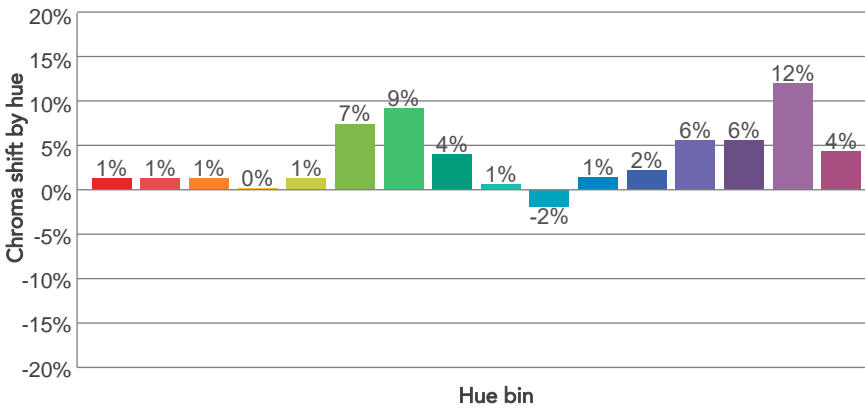
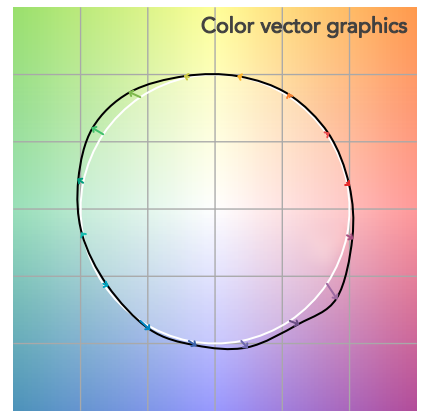
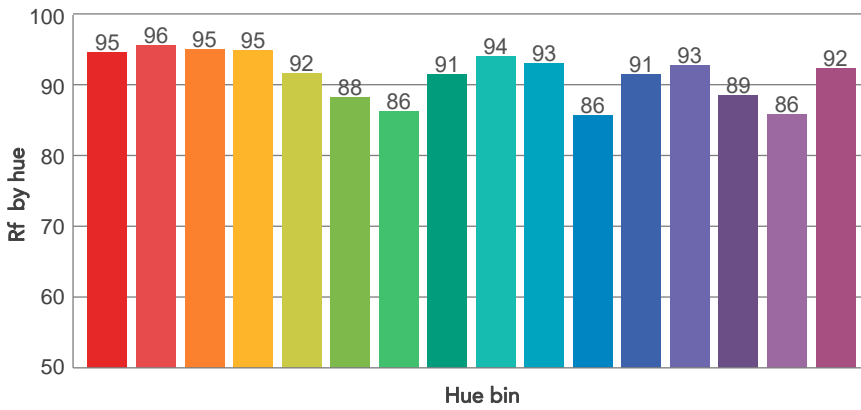
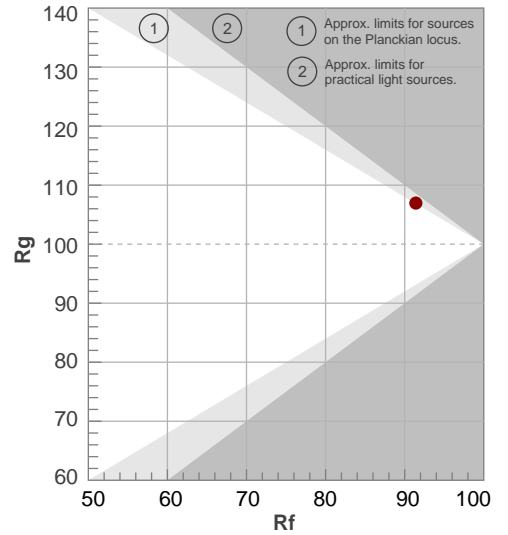
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6210 K	92,1	95,2	91,4	107,0	94,1	85	0,318	0,328	0,0032

TM30 DETAILS

Rf 91,4
Fidelity index Rf

Rg 107,0
Gammut index

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

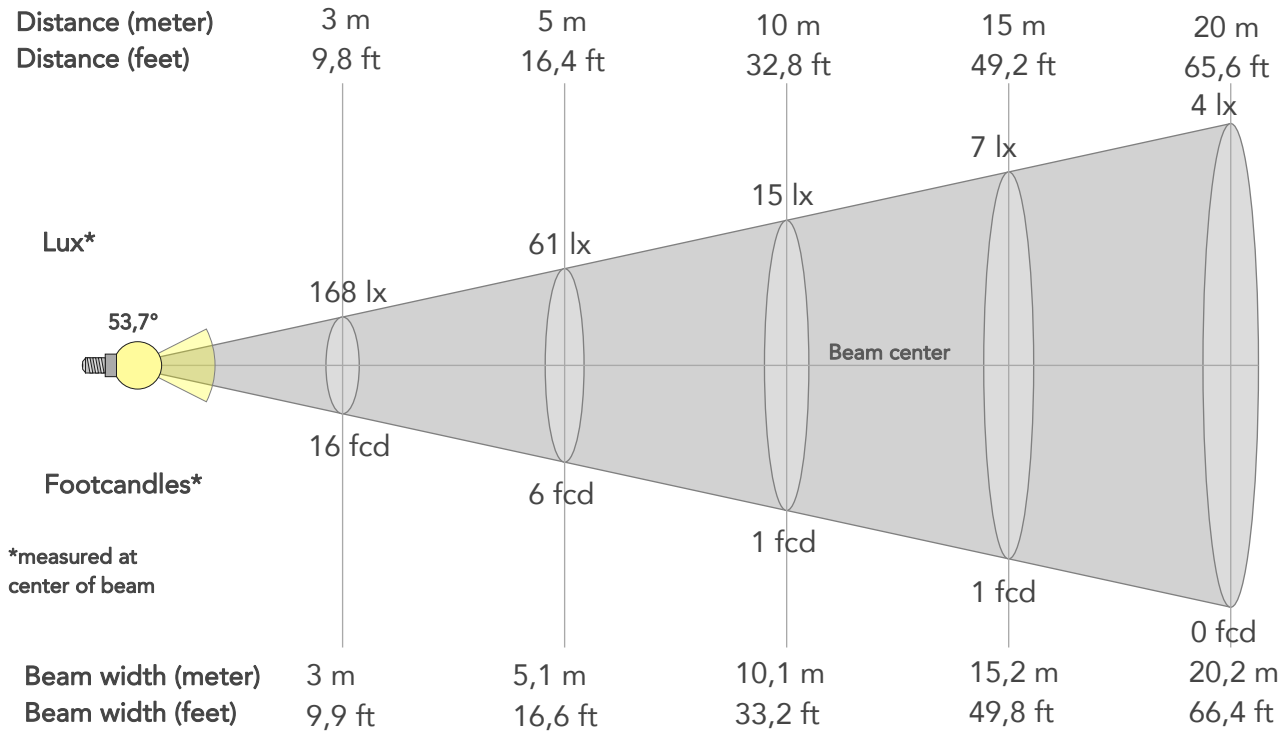


Color Evaluation Sample

BEAM DETAILS



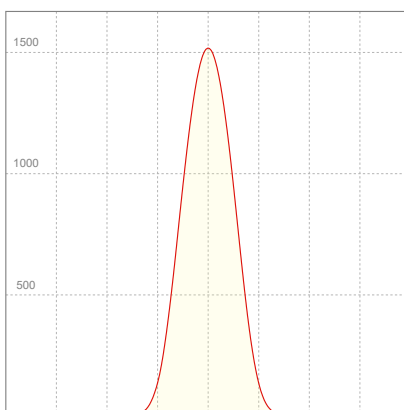
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,7°	88,5°	107,1°	99,4%	94,0%



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	1516lx	379lx	168lx	95lx	61lx	27lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	141fcd	35fcd	16fcd	9fcd	6fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5,1m	7,6m	10,1m	15,2m	20,2m	25,3m	30,4m	40,5m	50,6m
Beam wid.	3,3ft	6,7ft	9,9ft	13,3ft	16,6ft	24,9ft	33,2ft	49,8ft	66,4ft	83ft	99,6ft	132,7ft	165,9ft

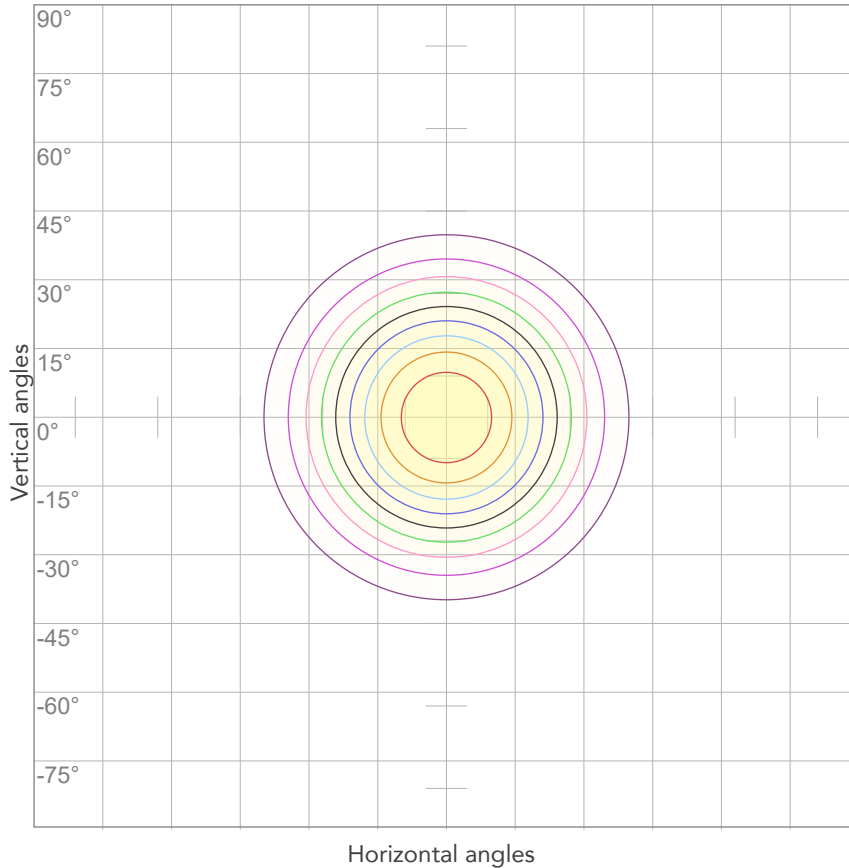
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,194A	40,8W	31lm/W

ISO CANDELA DIAGRAM



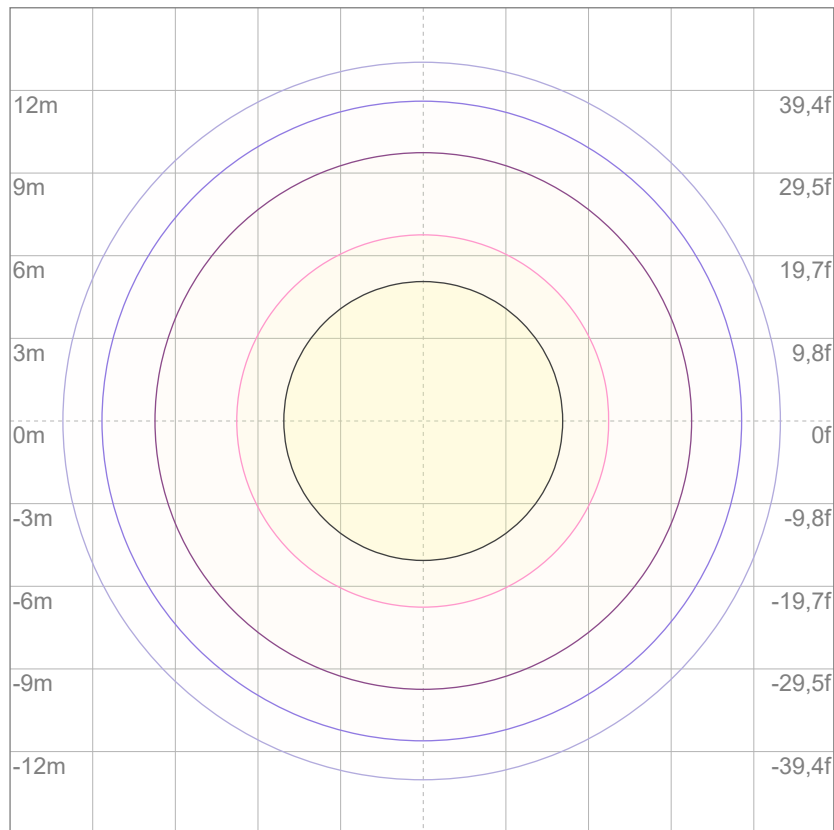
10%	152 cd
20%	303 cd
30%	455 cd
40%	606 cd
50%	758 cd
60%	910 cd
70%	1061 cd
80%	1213 cd

Conditions:

Number of c-planes: 2

Candela at center: 1516 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,455 lx
5%	0,758 lx
10%	1,52 lx
30%	4,55 lx
50%	7,58 lx

Conditions:

Number of c-planes: 2

Lux at center: 15,2 lx

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



Total lumen output:

1926 lm

Peak candela output:

3521 cd

Light quality:

CRI: 92,5

Color temperature:

6247 K

PRODUCT NAME:
SMARTBATPLUSG2

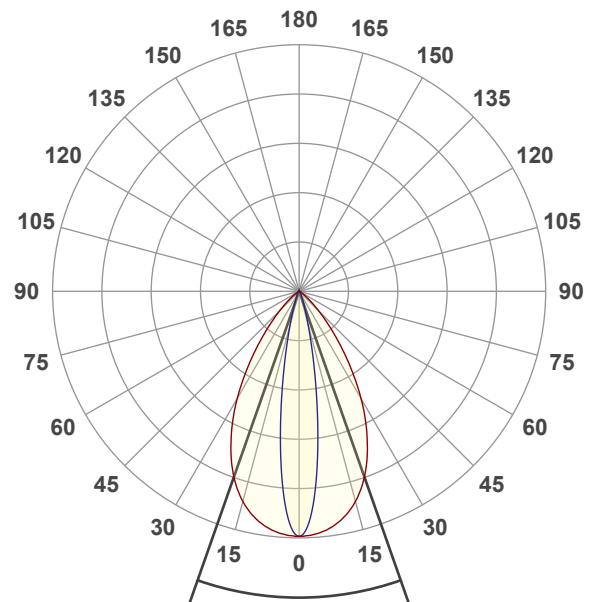
MEASUREMENT CONDITIONS:

Beam angle:
1060 Filter

Target:
6000K On Cal.On.

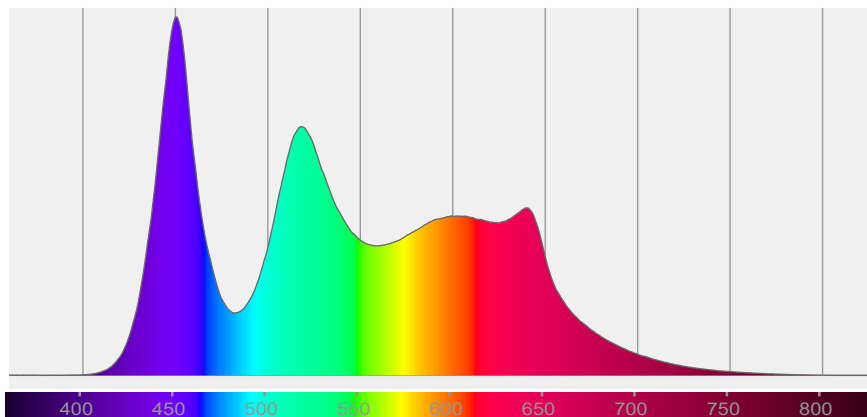
Operator:
Paolo Carvone

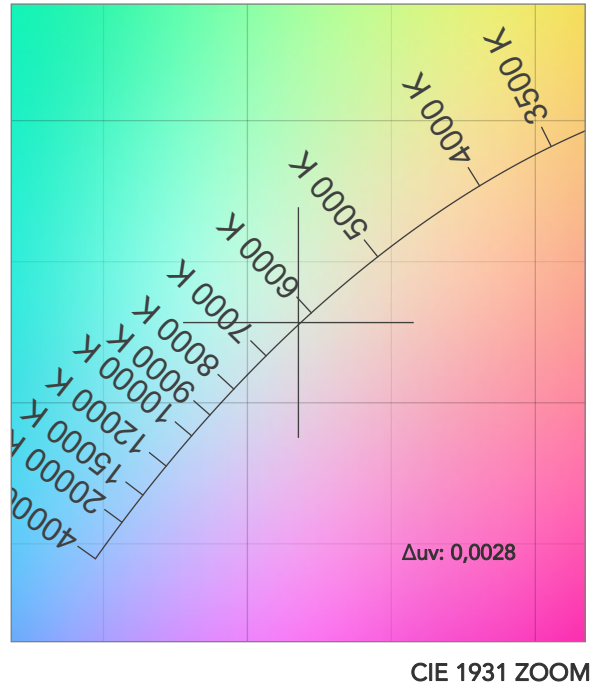
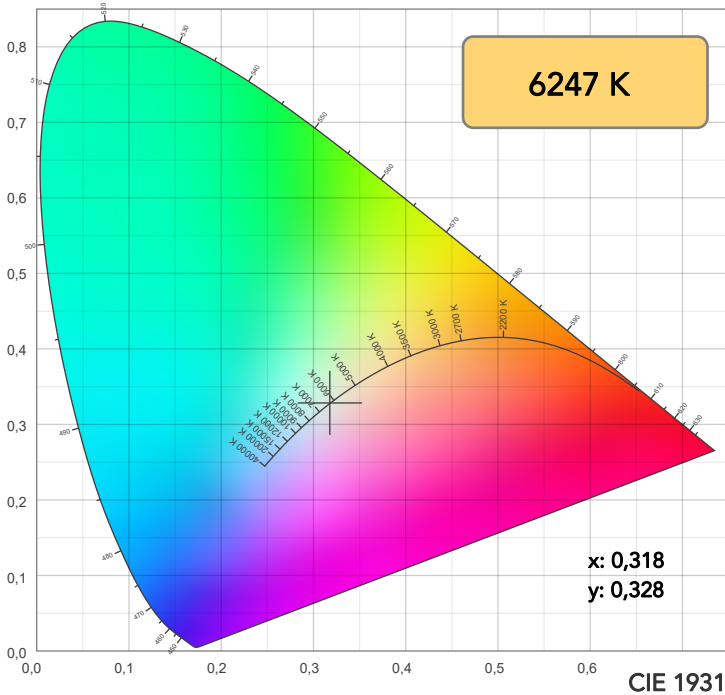
Date and time:
10/06/2022 14:55:27



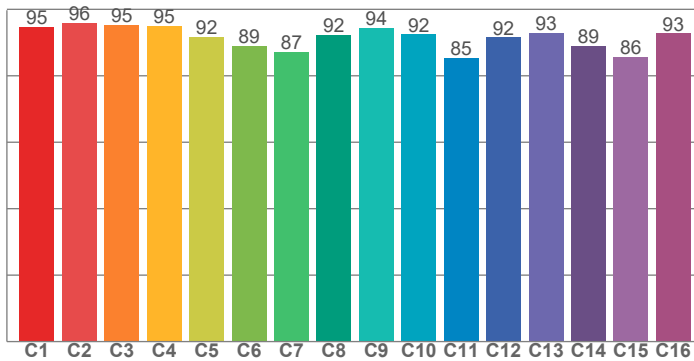
Beam angle 50%: 38,7°
Field angle 10%: 62,6°
Cut off angle 2.5%: 78,9°

Spectra

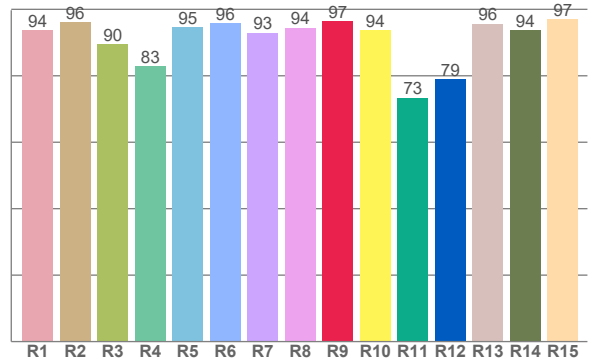




TM30: 91,7



CRI: 92,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,8	96,2	89,5	82,9	94,7	95,8	93,0	94,5	96,5	93,6	73,4	79,0	95,7	93,6	97,1

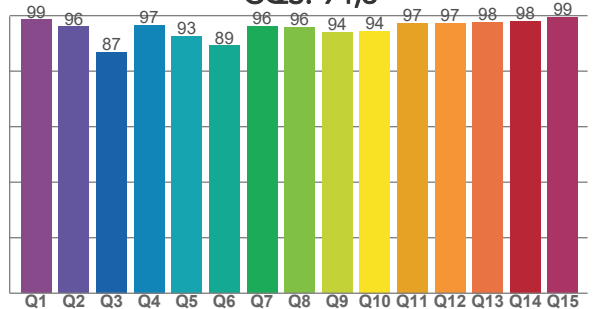
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	95,9	95,3	95,0	91,7	88,9	87,3	92,2	94,3	92,5	85,3	91,5	92,8	89,1	85,8	92,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,6	96,1	86,9	96,6	92,6	89,3	96,2	95,8	94,0	94,4	97,3	97,2	97,7	98,1	99,4

CQS: 94,3



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
6247 K	92,5	96,5	91,7	106,4	94,3	87	0,318	0,328	0,0028

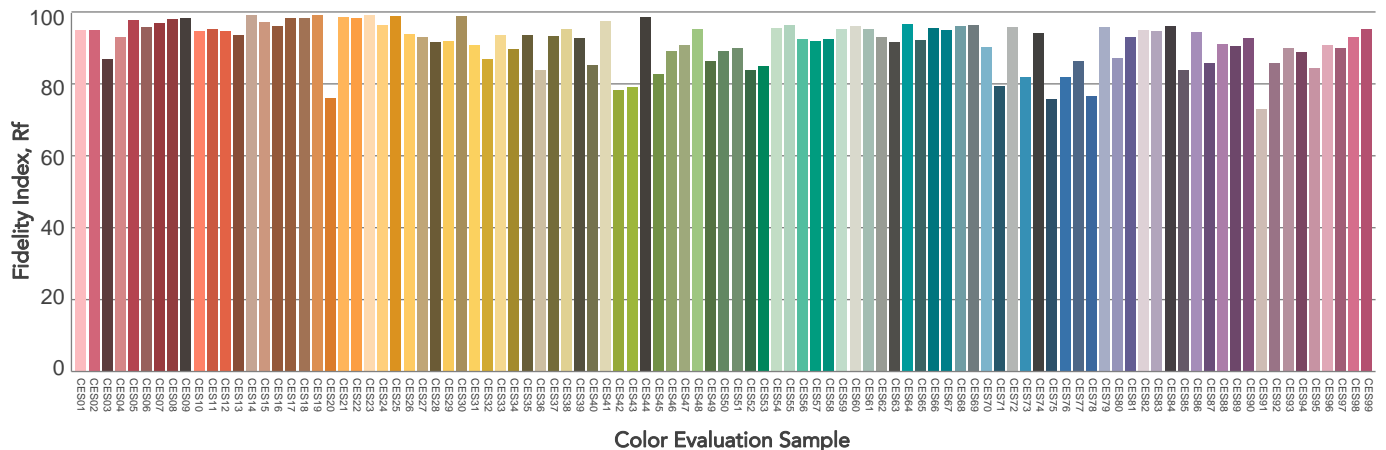
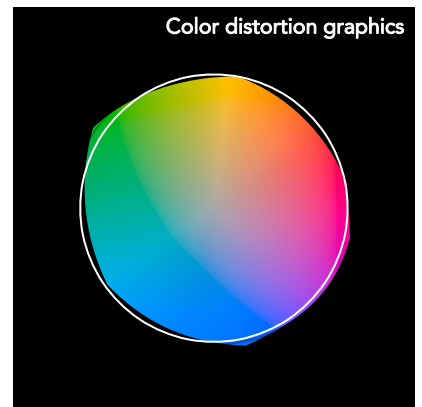
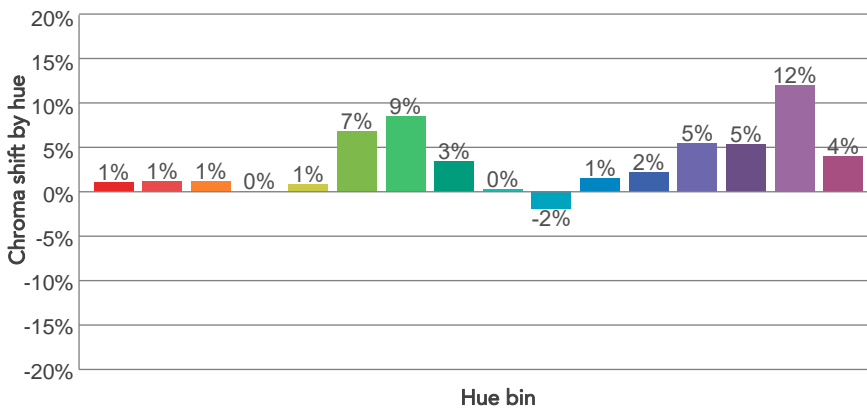
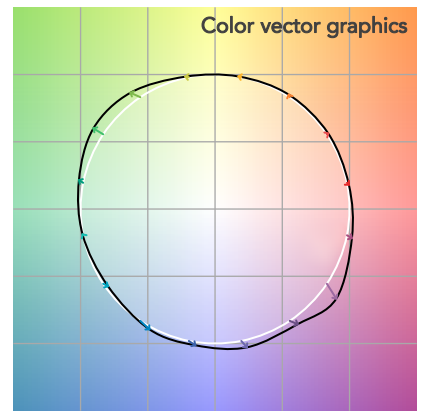
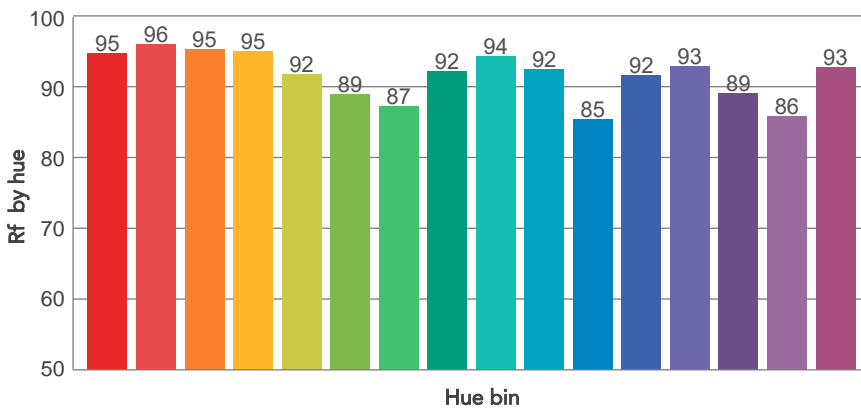
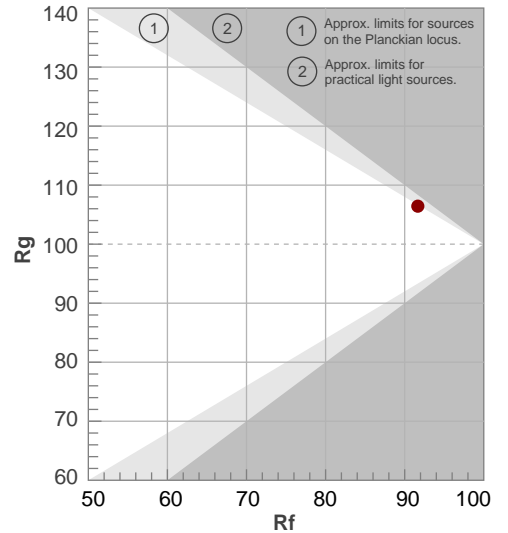
TM30 DETAILS



Rf 91,7
Fidelity index Rf

Rg 106,4
Gammut index

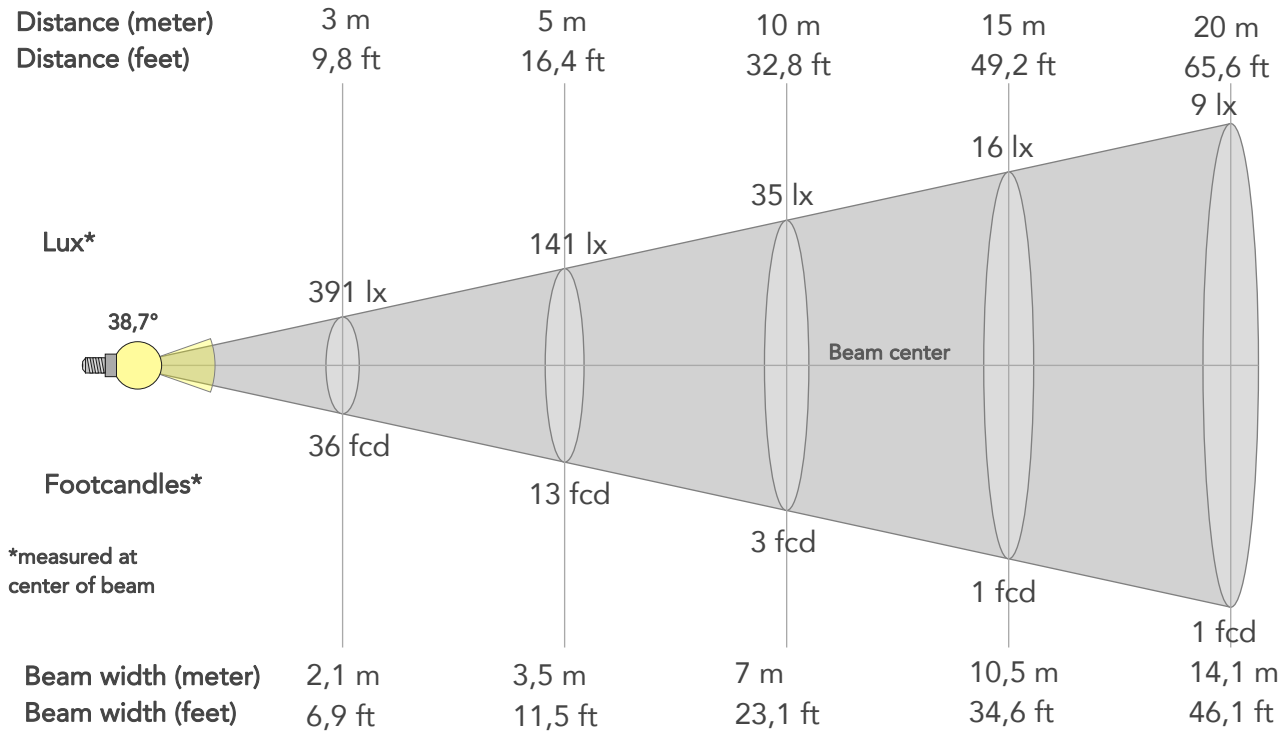
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	0%
3	95	1%	2%
4	95	0%	2%
5	92	1%	2%
6	89	7%	4%
7	87	9%	0%
8	92	3%	-1%
9	94	0%	-1%
10	92	-2%	3%
11	85	1%	9%
12	92	2%	5%
13	93	5%	3%
14	89	5%	4%
15	86	12%	-5%
16	93	4%	-1%



BEAM DETAILS



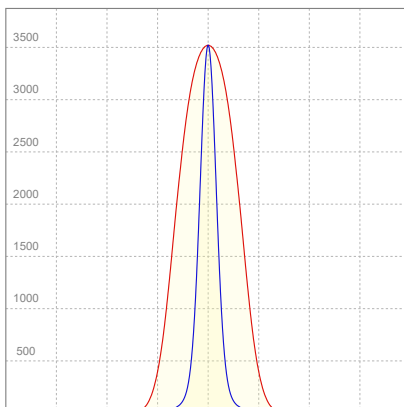
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38,7°	62,6°	78,9°	99,8%	94,7%



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	3519lx	880lx	391lx	220lx	141lx	63lx	35lx	16lx	9lx	6lx	4lx	2lx	1lx
Footcand.	327fcd	82fcd	36fcd	20fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,3m	7m	10,5m	14,1m	17,6m	21,1m	28,1m	35,1m
Beam wid.	2,3ft	4,6ft	6,9ft	9,2ft	11,5ft	17,3ft	23,1ft	34,6ft	46,1ft	57,6ft	69,2ft	92,2ft	115,3ft

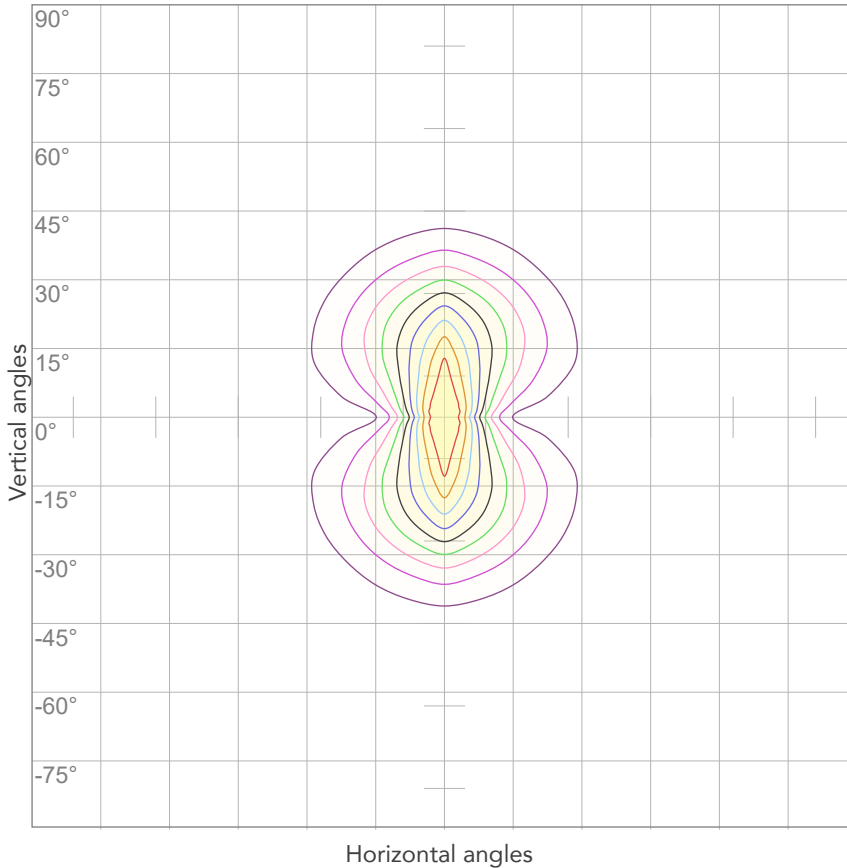
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,191A	40,2W	48lm/W

ISO CANDELA DIAGRAM



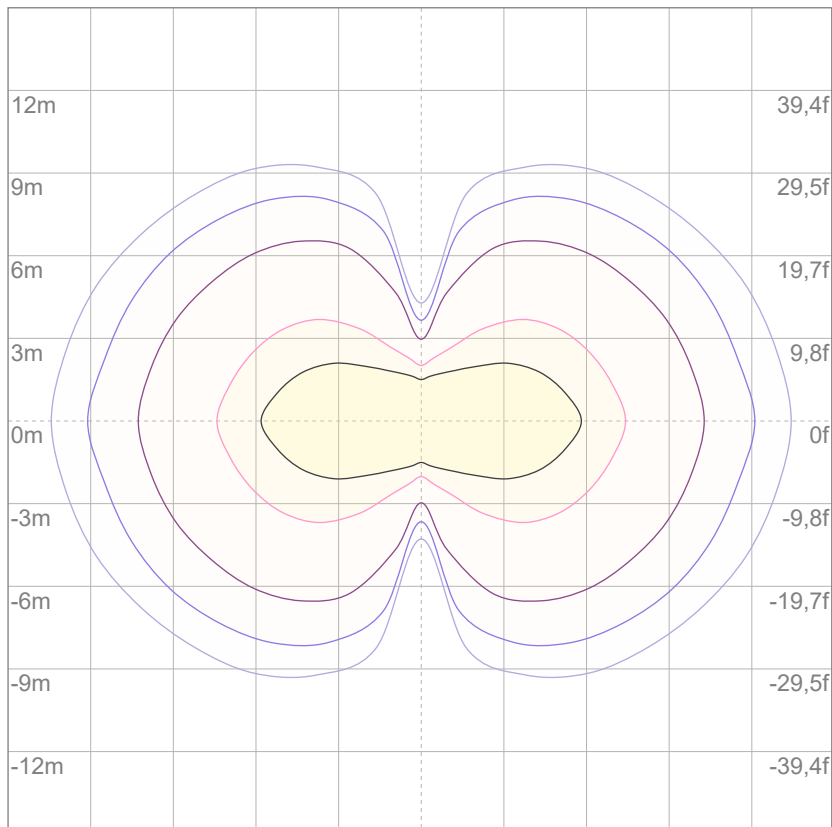
10%	352 cd
20%	704 cd
30%	1056 cd
40%	1407 cd
50%	1759 cd
60%	2111 cd
70%	2463 cd
80%	2815 cd

Conditions:

Number of c-planes: 4

Candela at center: 3519 cd

ISO LUX DIAGRAM



3%	1,06 lx
5%	1,76 lx
10%	3,52 lx
30%	10,6 lx
50%	17,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 35,2 lx

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