



Photometric Test Report



SMARTBATPLUS

Wireless battery operated portable uplighter

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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:

905 lm

Peak candela output:

18990 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Narrow Beam

Target:

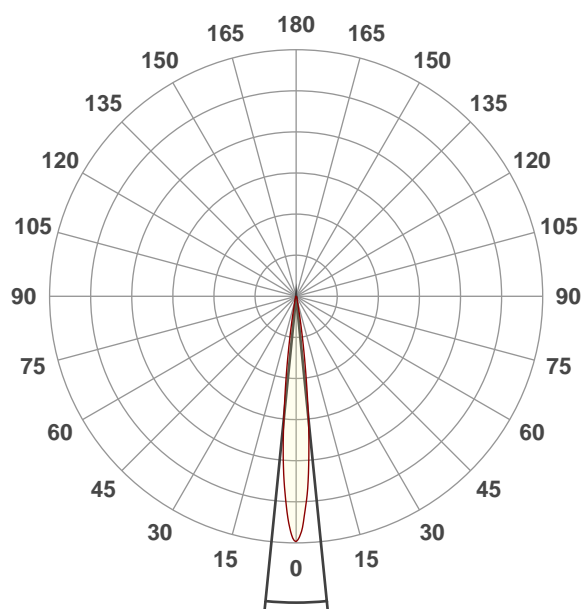
Full On

Operator:

Paolo Carvone

Date and time:

25/06/2020 09:57:41

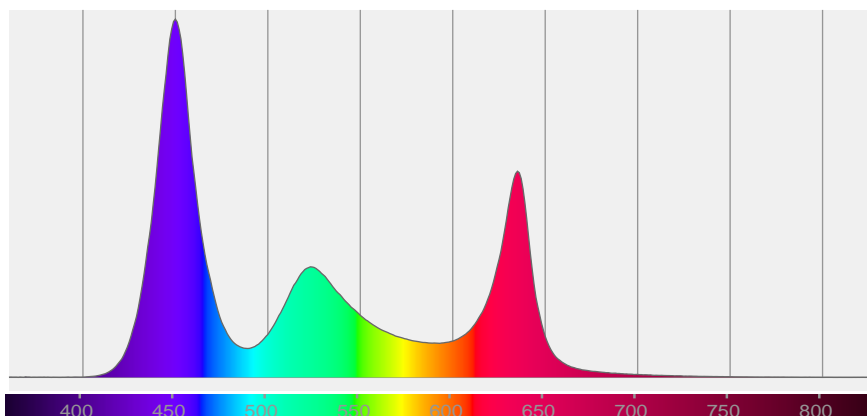


Beam angle 50%: 11,5°

Field angle 10%: 19,6°

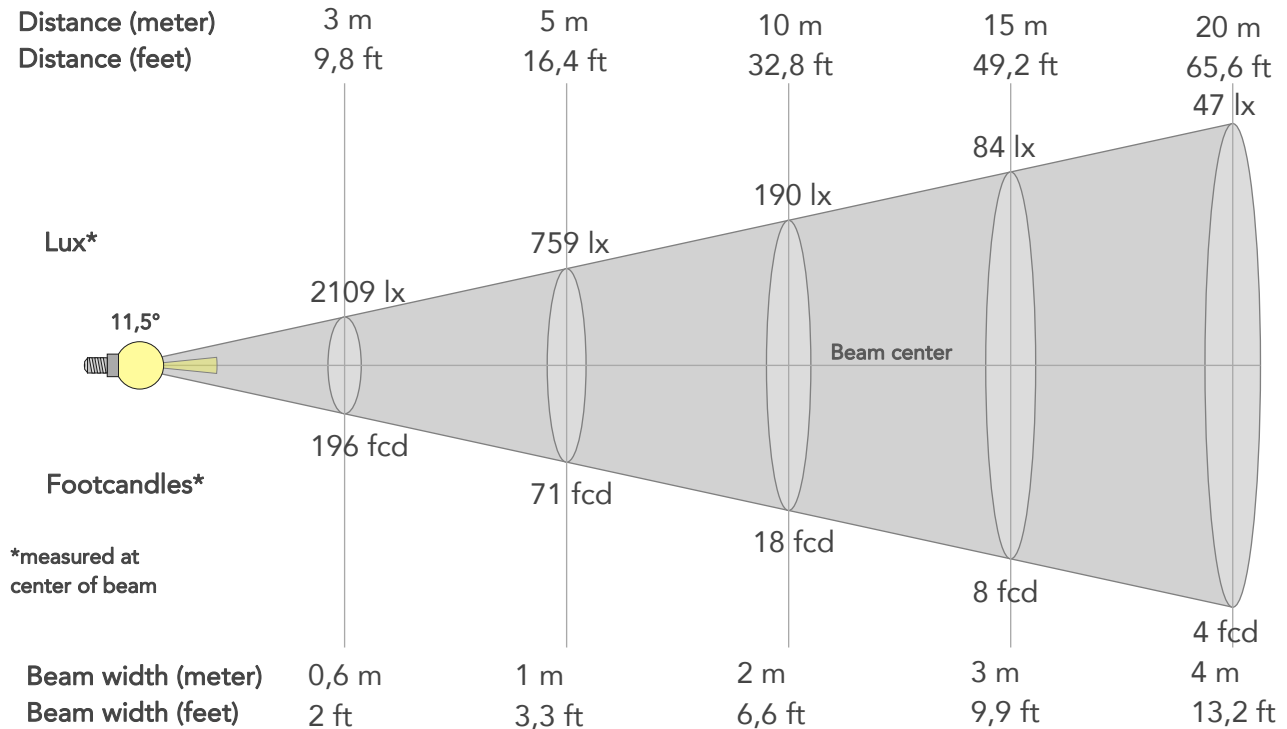
Cut off angle 2.5%: 27,7°

Spectra



BEAM DETAILS

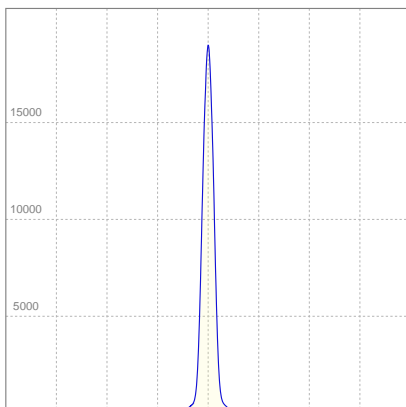
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,5°	19,6°	27,7°	100,0%	99,9%



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	18985lx	4746lx	2109lx	1187lx	759lx	338lx	190lx	84lx	47lx	30lx	21lx	12lx	8lx
Footcand.	1764fcd	441fcd	196fcd	110fcd	71fcd	31fcd	18fcd	8fcd	4fcd	3fcd	2fcd	1fcd	1fcd
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

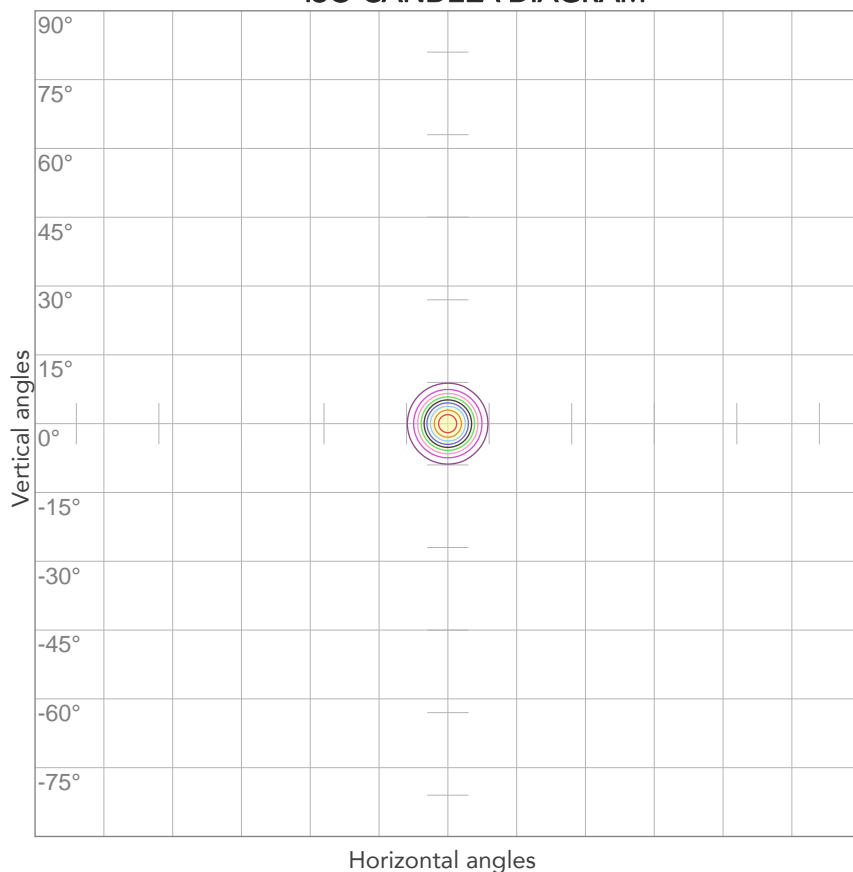


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,000A	-W	+InfinitoIm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



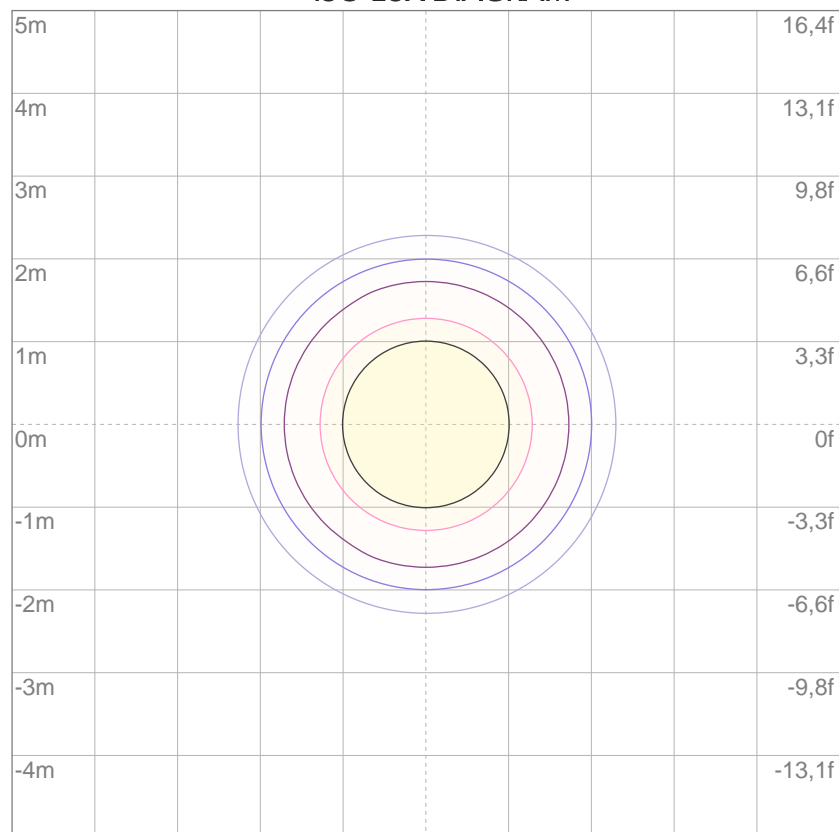
10%	1899 cd
20%	3797 cd
30%	5696 cd
40%	7594 cd
50%	9493 cd
60%	11391 cd
70%	13290 cd
80%	15188 cd

Conditions:

Number of c-planes: 2

Candela at center: 18985 cd

ISO LUX DIAGRAM



3%	5,70 lx
5%	9,49 lx
10%	19,0 lx
30%	57,0 lx
50%	94,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 190 lx

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



Total lumen output:

831 lm

Peak candela output:

5432 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Medium Beam

Target:

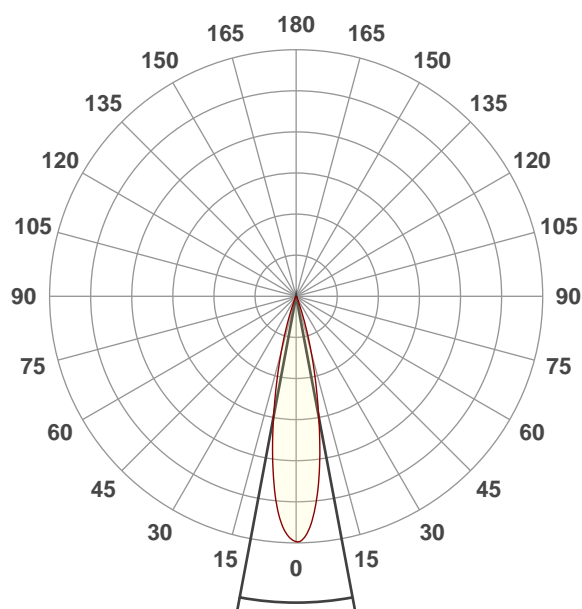
Full On

Operator:

Paolo Carvone

Date and time:

01/07/2020 09:21:02

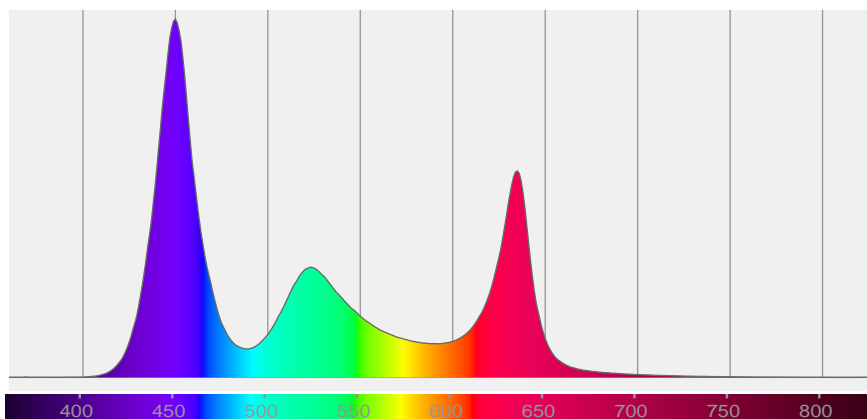


Beam angle 50%: 21,2°

Field angle 10%: 36,8°

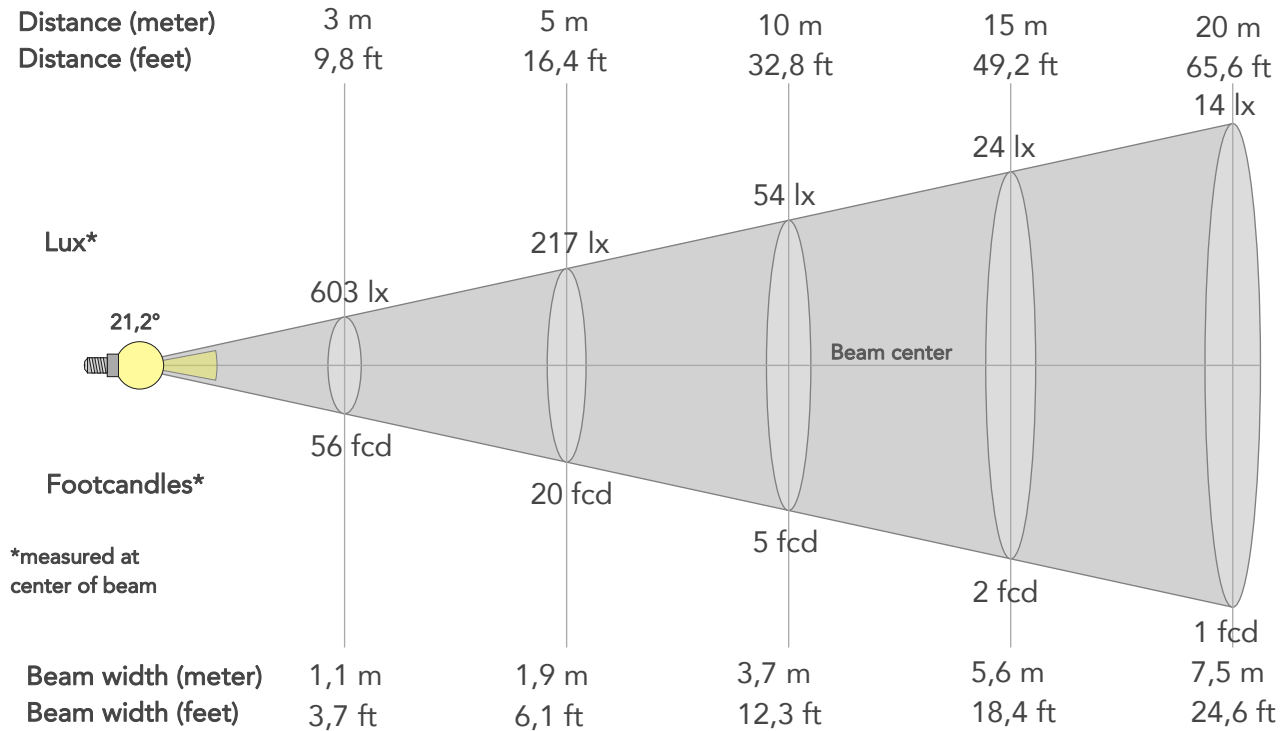
Cut off angle 2.5%: 46,1°

Spectra



BEAM DETAILS

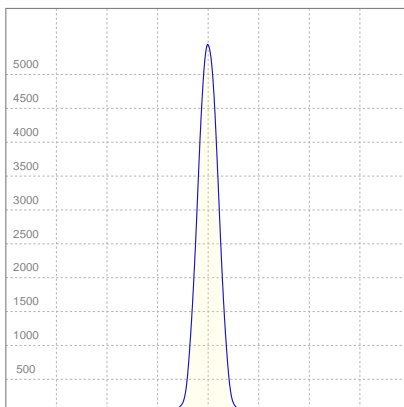
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21,2°	36,8°	46,1°	99,9%	99,1%



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	5426lx	1357lx	603lx	339lx	217lx	96lx	54lx	24lx	14lx	9lx	6lx	3lx	2lx
Footcand.	504fcd	126fcd	56fcd	32fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,9m	2,8m	3,7m	5,6m	7,5m	9,4m	11,2m	15m	18,7m
Beam wid.	1,2ft	2,5ft	3,7ft	4,9ft	6,1ft	9,2ft	12,3ft	18,4ft	24,6ft	30,7ft	36,9ft	49,2ft	61,5ft

LINEAR DISTRIBUTION DIAGRAM

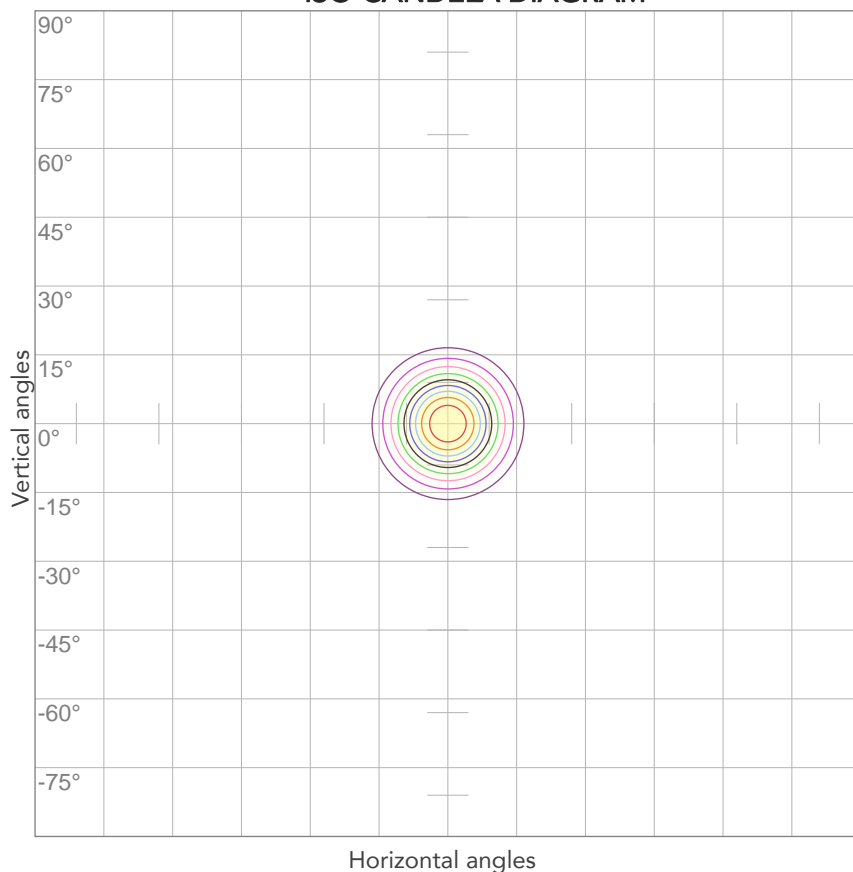


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,000A	-W	+Infinitolm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



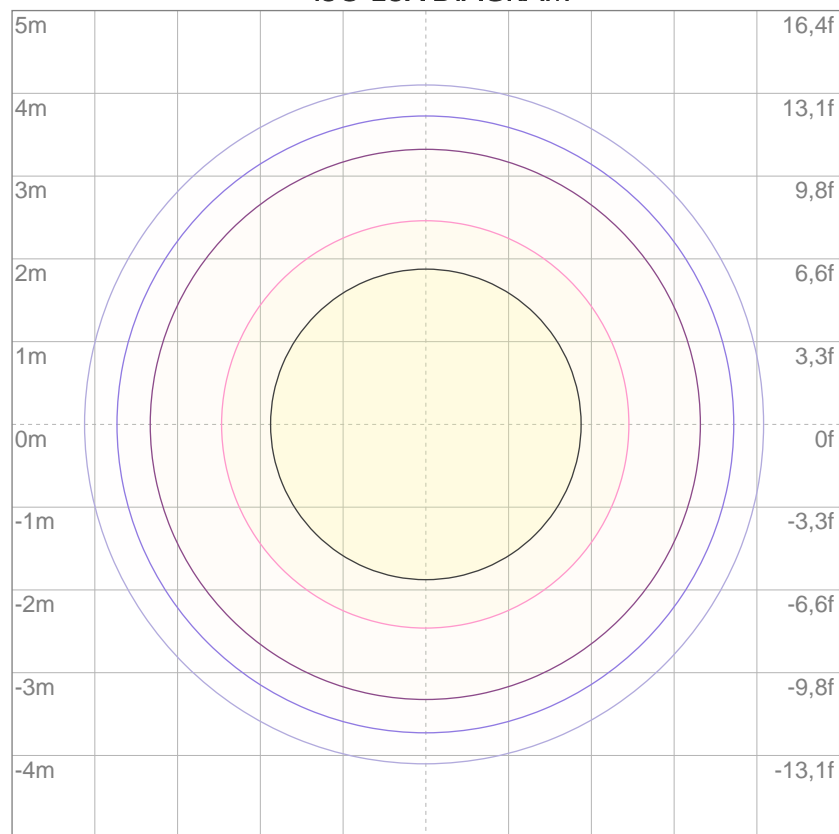
10%	543 cd
20%	1085 cd
30%	1628 cd
40%	2171 cd
50%	2713 cd
60%	3256 cd
70%	3799 cd
80%	4341 cd

Conditions:

Number of c-planes: 2

Candela at center: 5426 cd

ISO LUX DIAGRAM



3%	1,63 lx
5%	2,71 lx
10%	5,43 lx
30%	16,3 lx
50%	27,1 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:

832 lm

Peak candela output:

1826 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Wide Beam

Target:

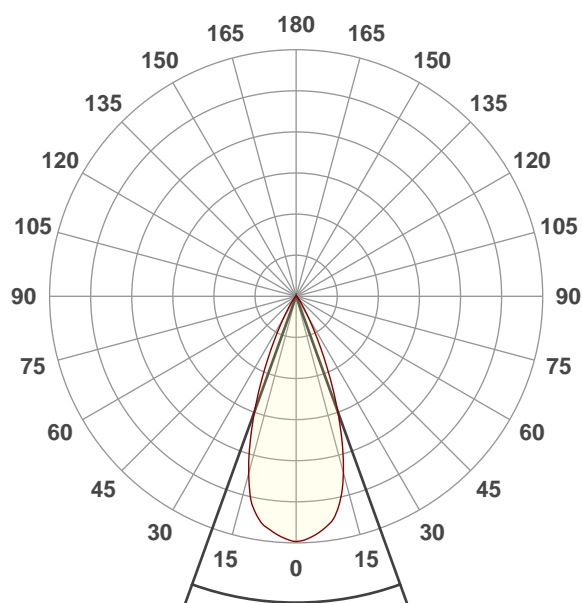
Full On

Operator:

Paolo Carvone

Date and time:

30/06/2020 12:37:43

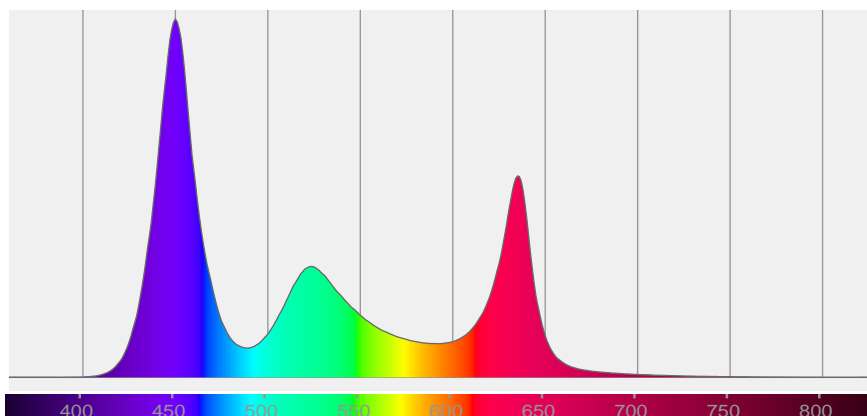


Beam angle 50%: 39,7°

Field angle 10%: 60,3°

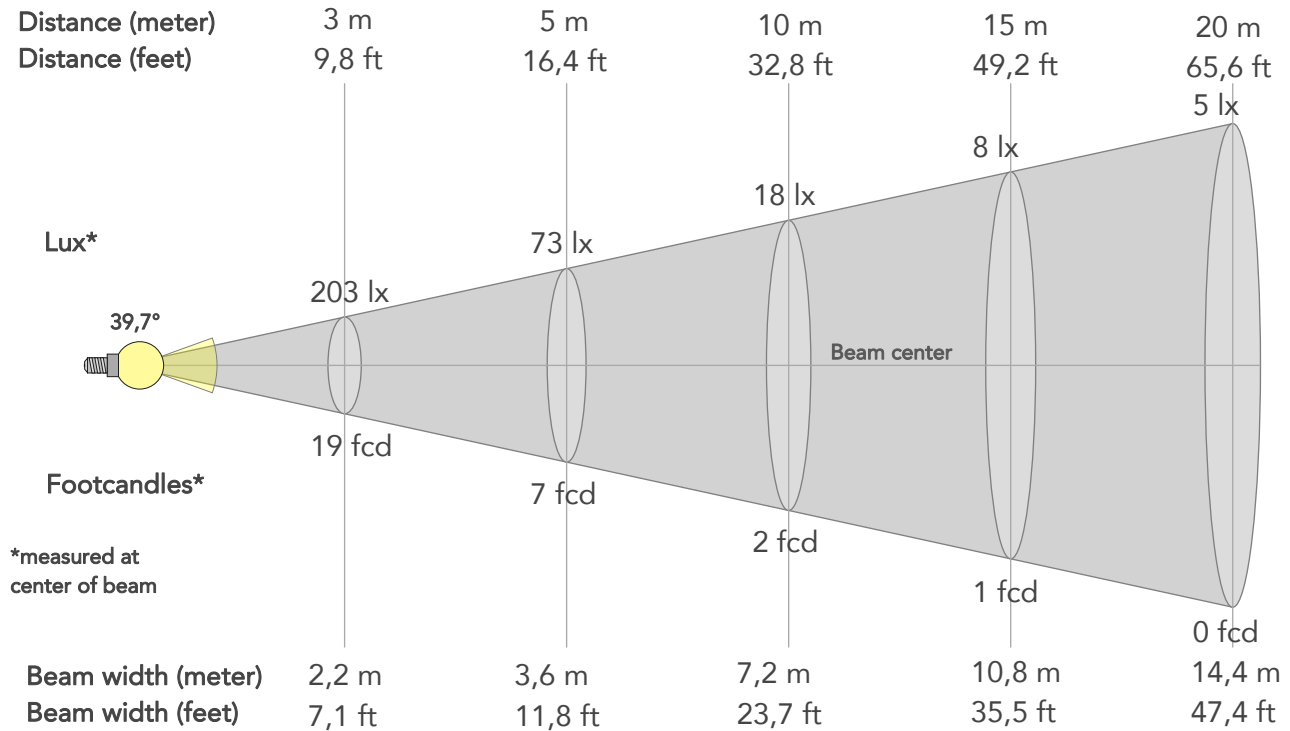
Cut off angle 2.5%: 76,9°

Spectra



BEAM DETAILS

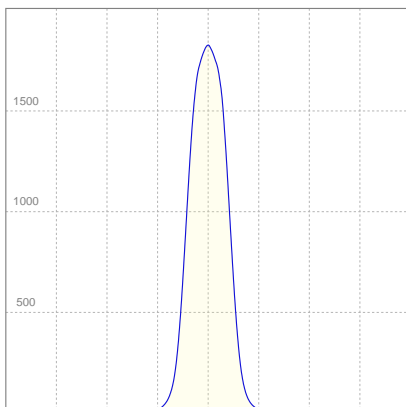
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,7°	60,3°	76,9°	99,3%	97,6%



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	1825lx	456lx	203lx	114lx	73lx	32lx	18lx	8lx	5lx	3lx	2lx	1lx	1lx
Footcand.	170fcd	42fcd	19fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,2m	2,9m	3,6m	5,4m	7,2m	10,8m	14,4m	18,1m	21,7m	28,9m	36,1m
Beam wid.	2,4ft	4,8ft	7,1ft	9,5ft	11,8ft	17,8ft	23,7ft	35,5ft	47,4ft	59,2ft	71,1ft	94,8ft	118,5ft

LINEAR DISTRIBUTION DIAGRAM

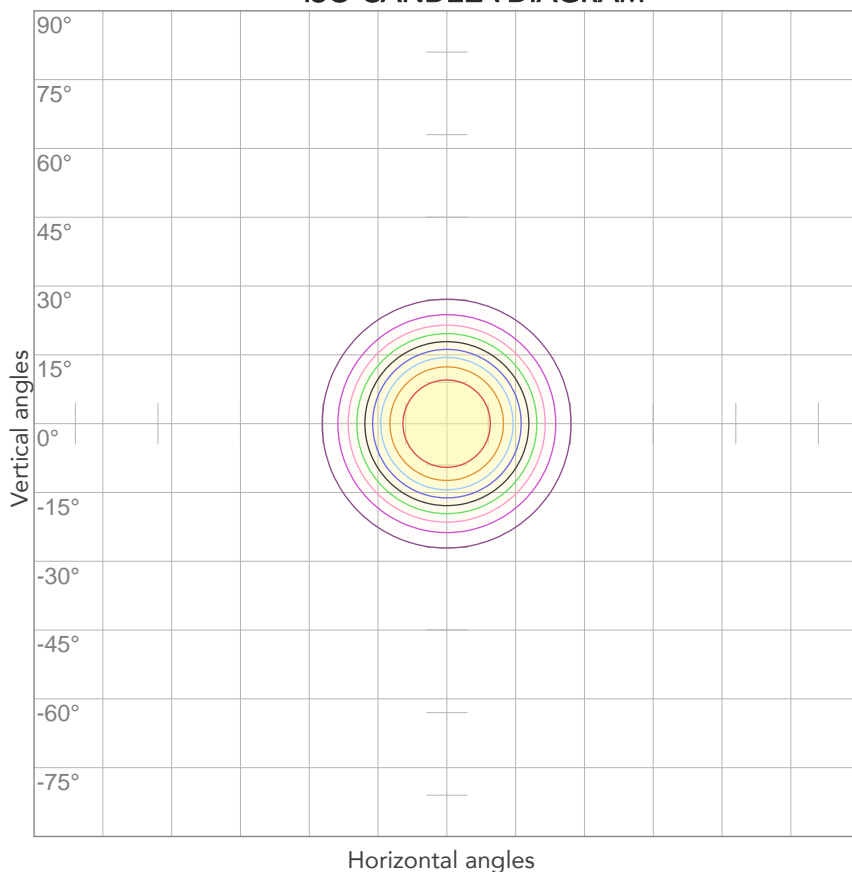


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,000A	-W	+InfinitoIm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



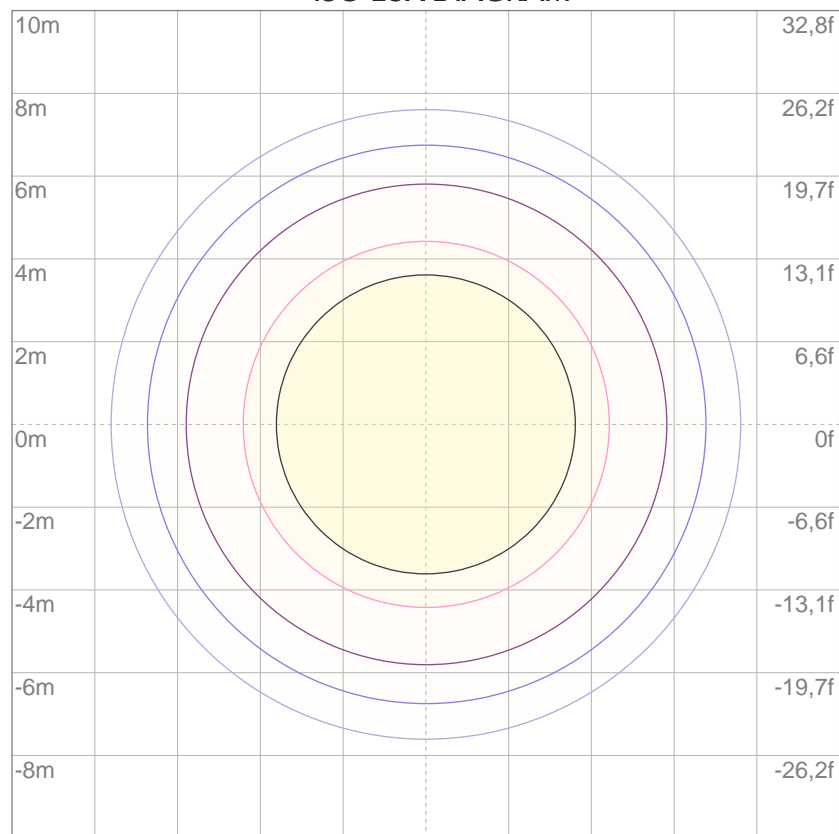
10%	182 cd
20%	365 cd
30%	547 cd
40%	730 cd
50%	912 cd
60%	1095 cd
70%	1277 cd
80%	1460 cd

Conditions:

Number of c-planes: 2

Candela at center: 1825 cd

ISO LUX DIAGRAM



3%	0,547 lx
5%	0,912 lx
10%	1,82 lx
30%	5,47 lx
50%	9,12 lx

Conditions:

Number of c-planes: 2

Lux at center: 18,2 lx

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



Total lumen output:

293 lm

Peak candela output:

5466 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Narrow Beam

Target:

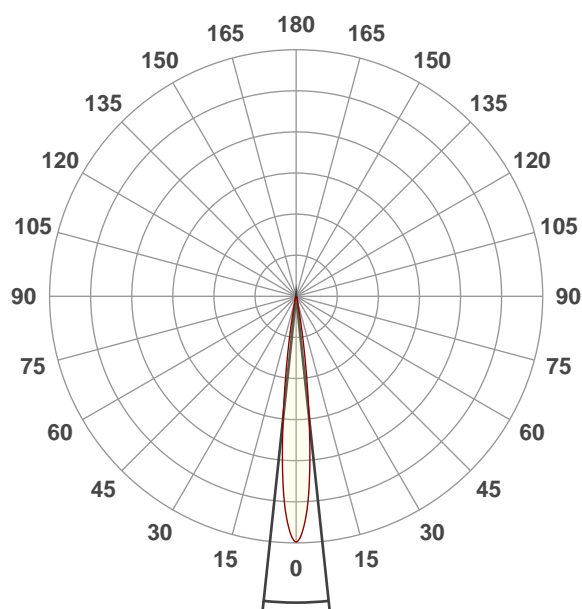
Red

Operator:

Paolo Carvone

Date and time:

25/06/2020 10:04:02

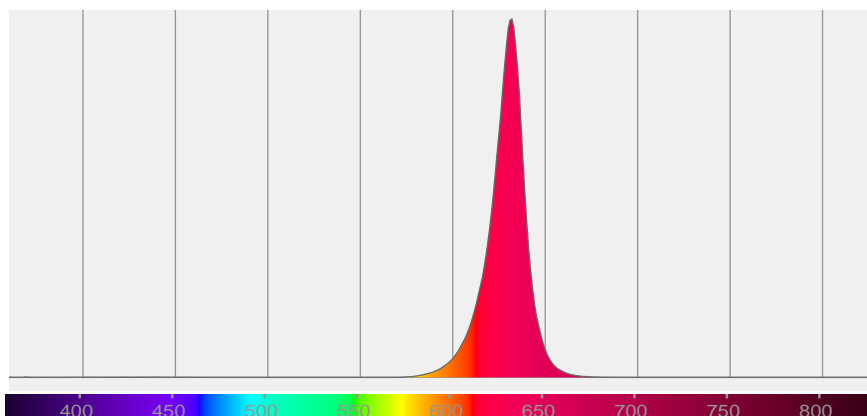


Beam angle 50%: 12,2°

Field angle 10%: 20,5°

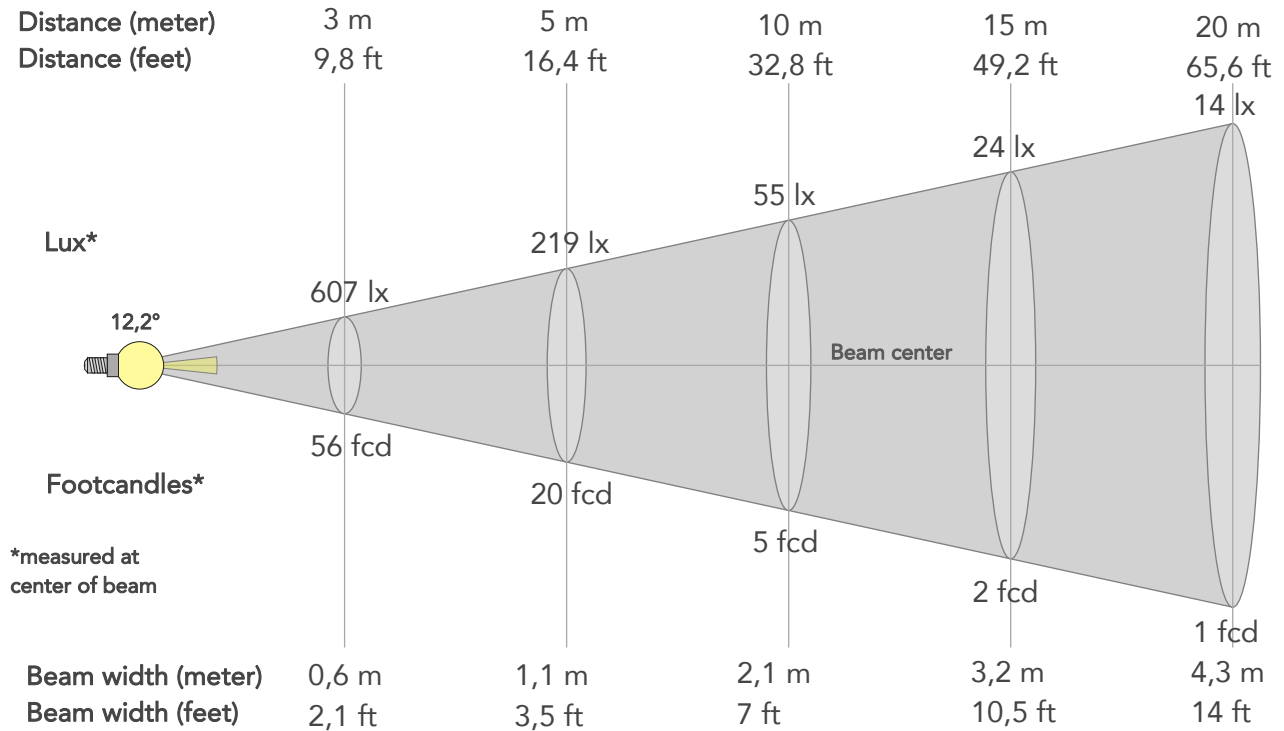
Cut off angle 2.5%: 29,2°

Spectra



BEAM DETAILS

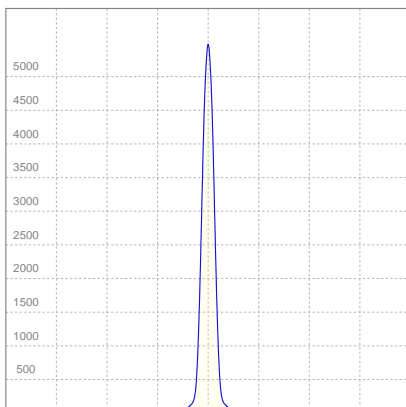
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
12,2°	20,5°	29,2°	99,8%	99,3%



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	5466lx	1367lx	607lx	342lx	219lx	97lx	55lx	24lx	14lx	9lx	6lx	3lx	2lx
Footcand.	508fcd	127fcd	56fcd	32fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,2m	0,4m	0,6m	0,9m	1,1m	1,6m	2,1m	3,2m	4,3m	5,3m	6,4m	8,5m	10,7m
Beam wid.	0,7ft	1,4ft	2,1ft	2,8ft	3,5ft	5,2ft	7ft	10,5ft	14ft	17,5ft	21ft	28ft	35ft

LINEAR DISTRIBUTION DIAGRAM

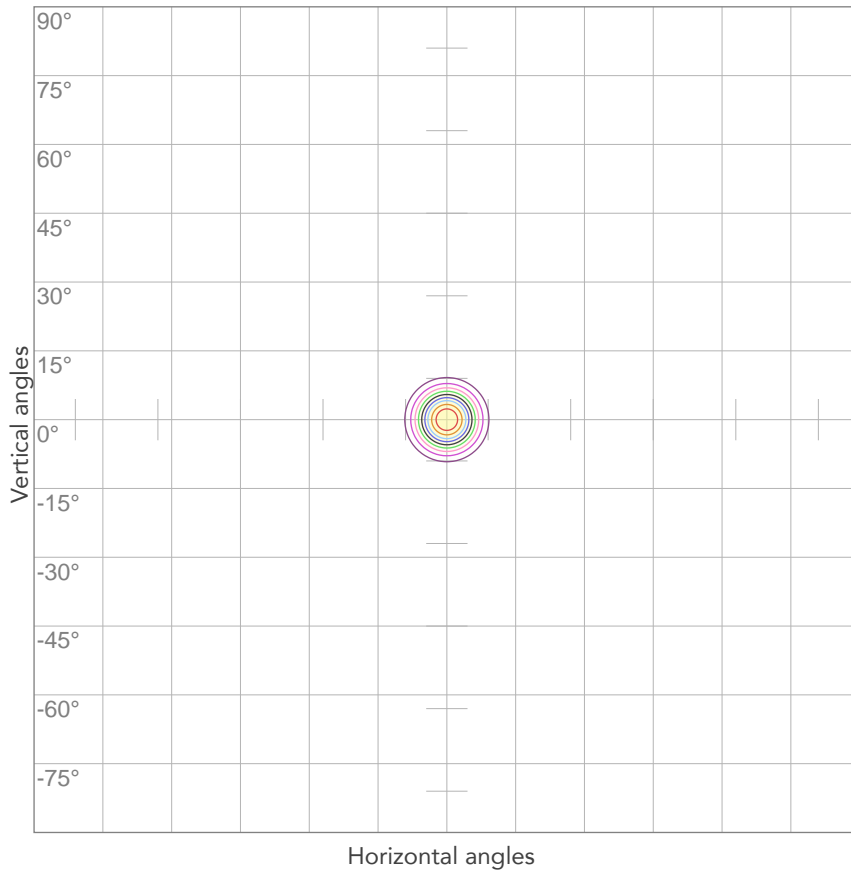


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,000A	-W	+Infinitolm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



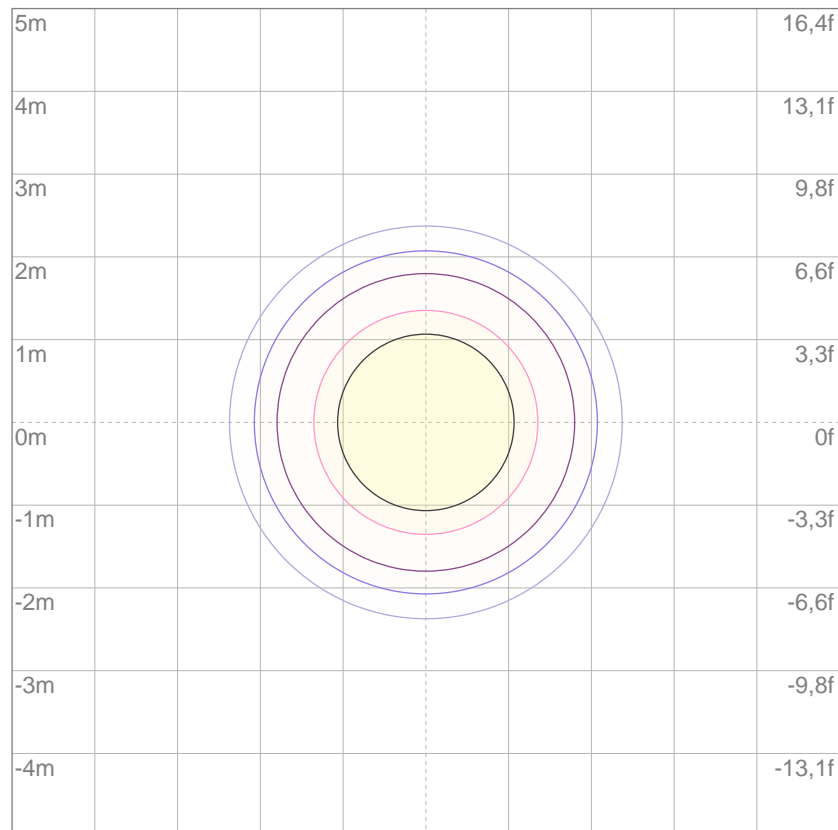
10%	547 cd
20%	1093 cd
30%	1640 cd
40%	2186 cd
50%	2733 cd
60%	3280 cd
70%	3826 cd
80%	4373 cd

Conditions:

Number of c-planes: 2

Candela at center: 5466 cd

ISO LUX DIAGRAM



3%	1,64 lx
5%	2,73 lx
10%	5,47 lx
30%	16,4 lx
50%	27,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 54,7 lx

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



Total lumen output:

283 lm

Peak candela output:

1841 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Medium Beam

Target:

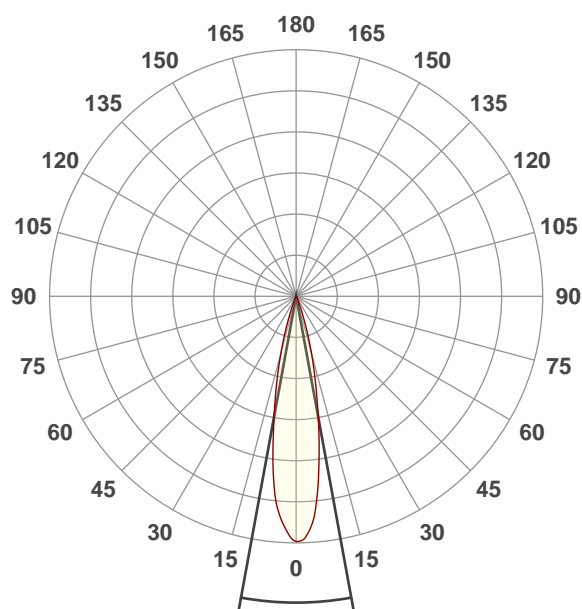
Red

Operator:

Paolo Carvone

Date and time:

01/07/2020 09:22:46

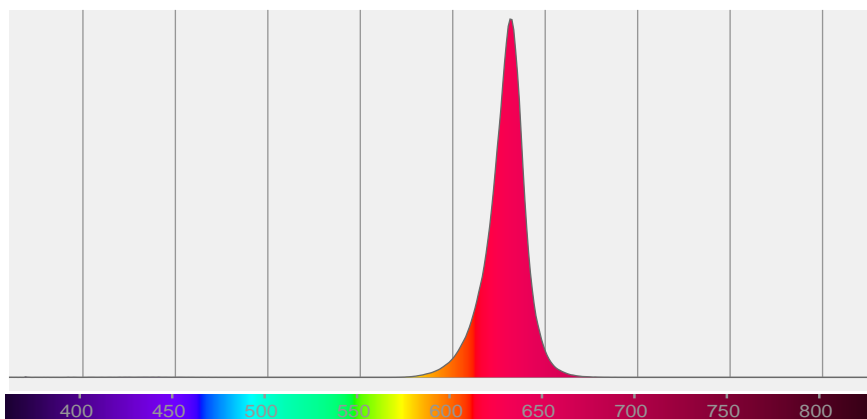


Beam angle 50%: 20,7°

Field angle 10%: 37,2°

Cut off angle 2.5%: 46,2°

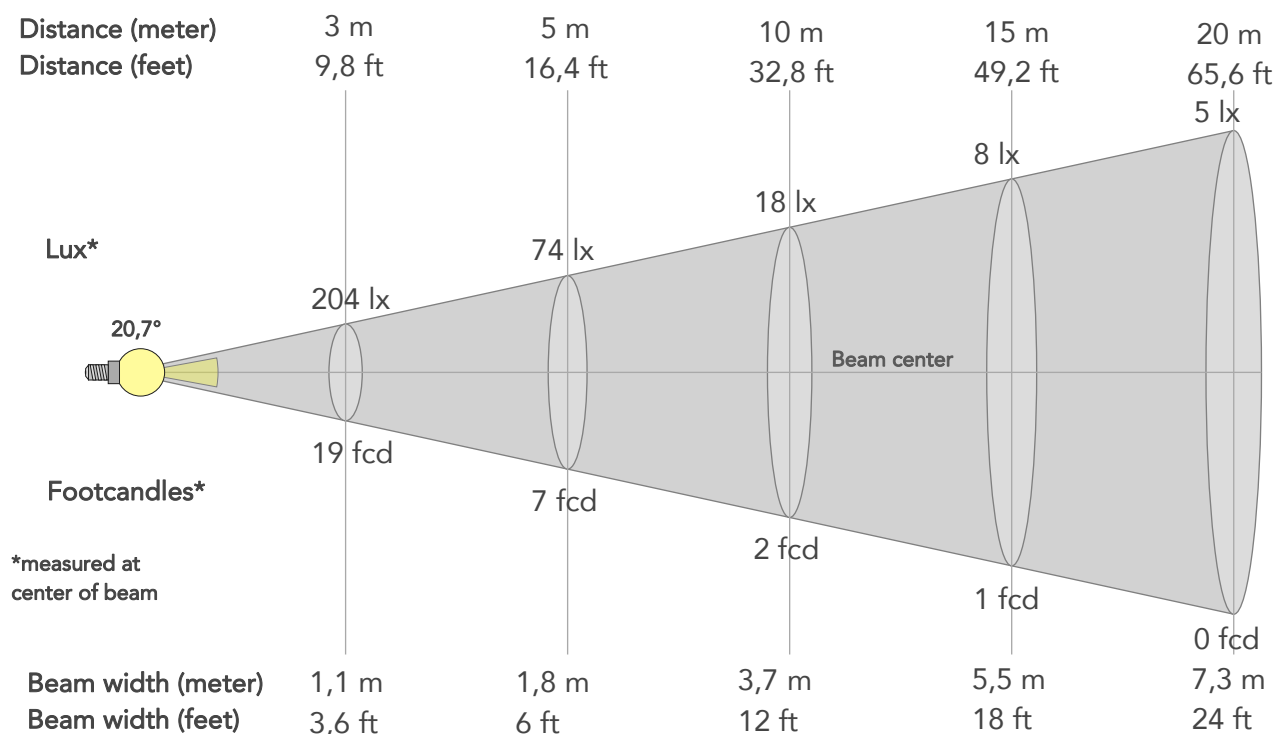
Spectra



BEAM DETAILS



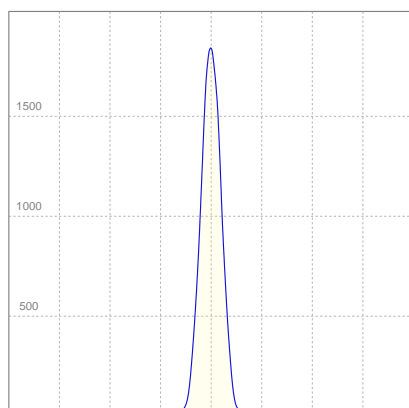
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,7°	37,2°	46,2°	99,7%	98,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1840lx	460lx	204lx	115lx	74lx	33lx	18lx	8lx	5lx	3lx	2lx	1lx	1lx
Footcand.	171fcd	43fcd	19fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,7m	3,7m	5,5m	7,3m	9,1m	11m	14,6m	18,3m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9ft	12ft	18ft	24ft	30ft	36ft	48ft	60ft

LINEAR DISTRIBUTION DIAGRAM

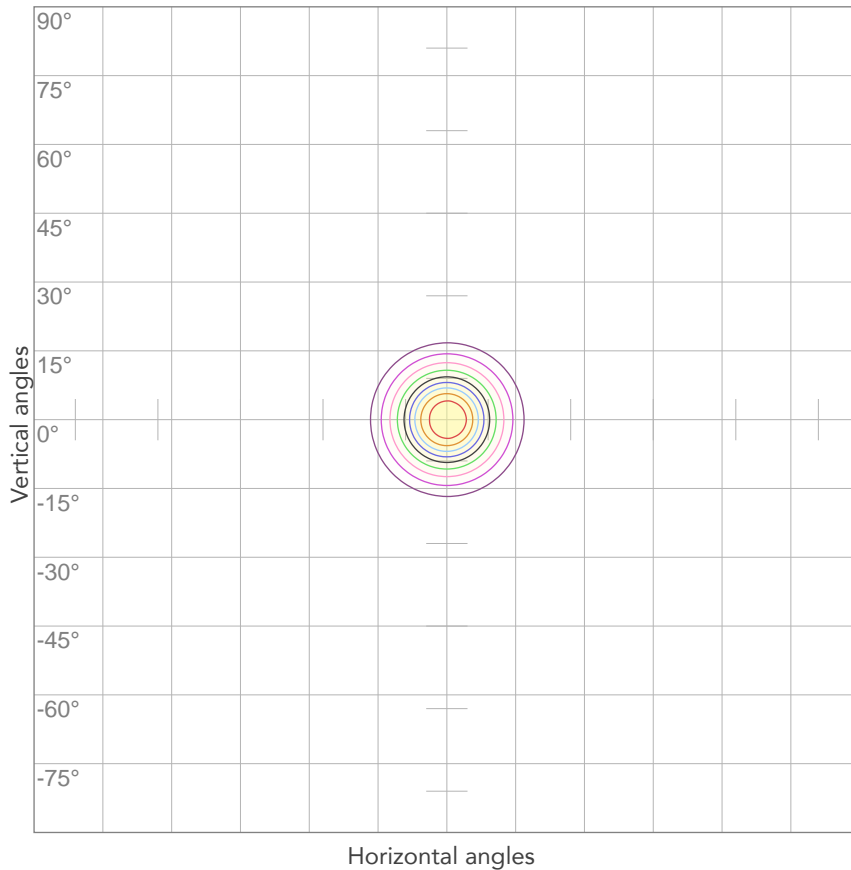


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,000A	-W	+Infinitolm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



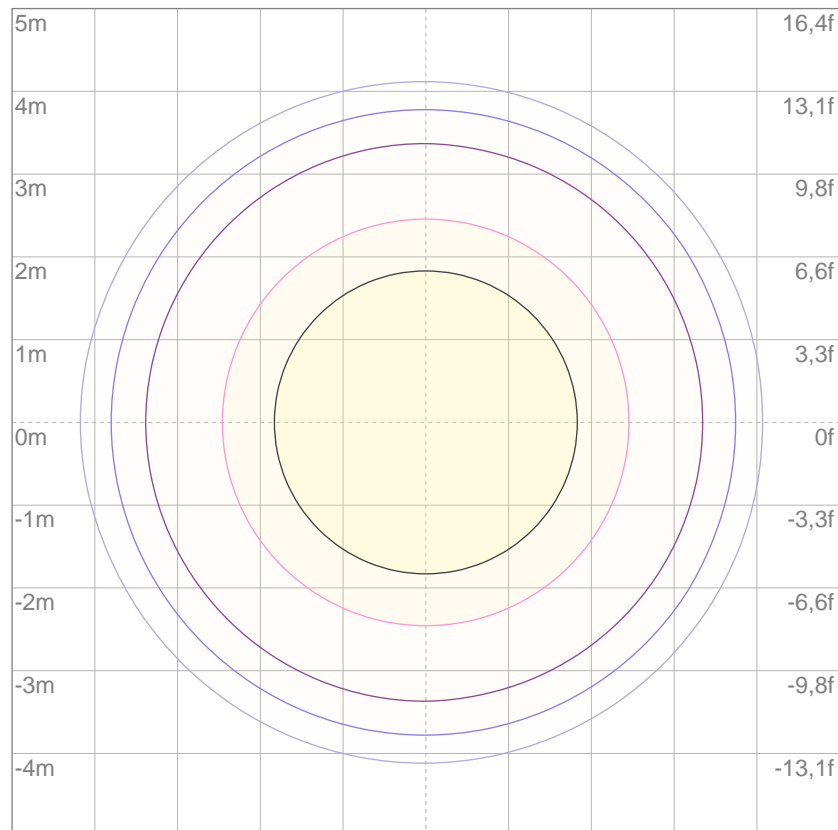
10%	184 cd
20%	368 cd
30%	552 cd
40%	736 cd
50%	920 cd
60%	1104 cd
70%	1288 cd
80%	1472 cd

Conditions:

Number of c-planes: 2

Candela at center: 1840 cd

ISO LUX DIAGRAM



3%	0,552 lx
5%	0,920 lx
10%	1,84 lx
30%	5,52 lx
50%	9,20 lx

Conditions:

Number of c-planes: 2

Lux at center: 18,4 lx

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



Total lumen output:

269 lm

Peak candela output:

597 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Wide Beam

Target:

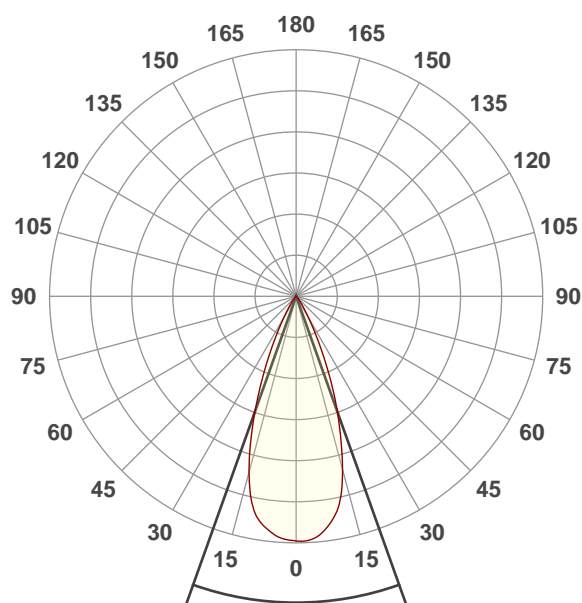
Red

Operator:

Paolo Carvone

Date and time:

30/06/2020 12:40:08

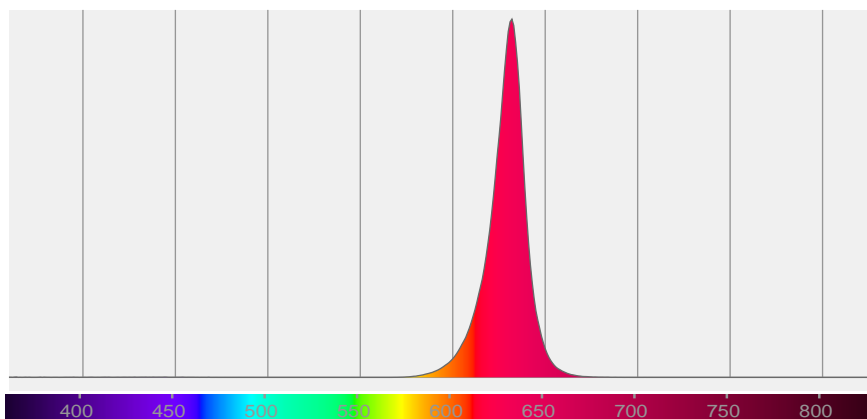


Beam angle 50%: 39,3°

Field angle 10%: 60,2°

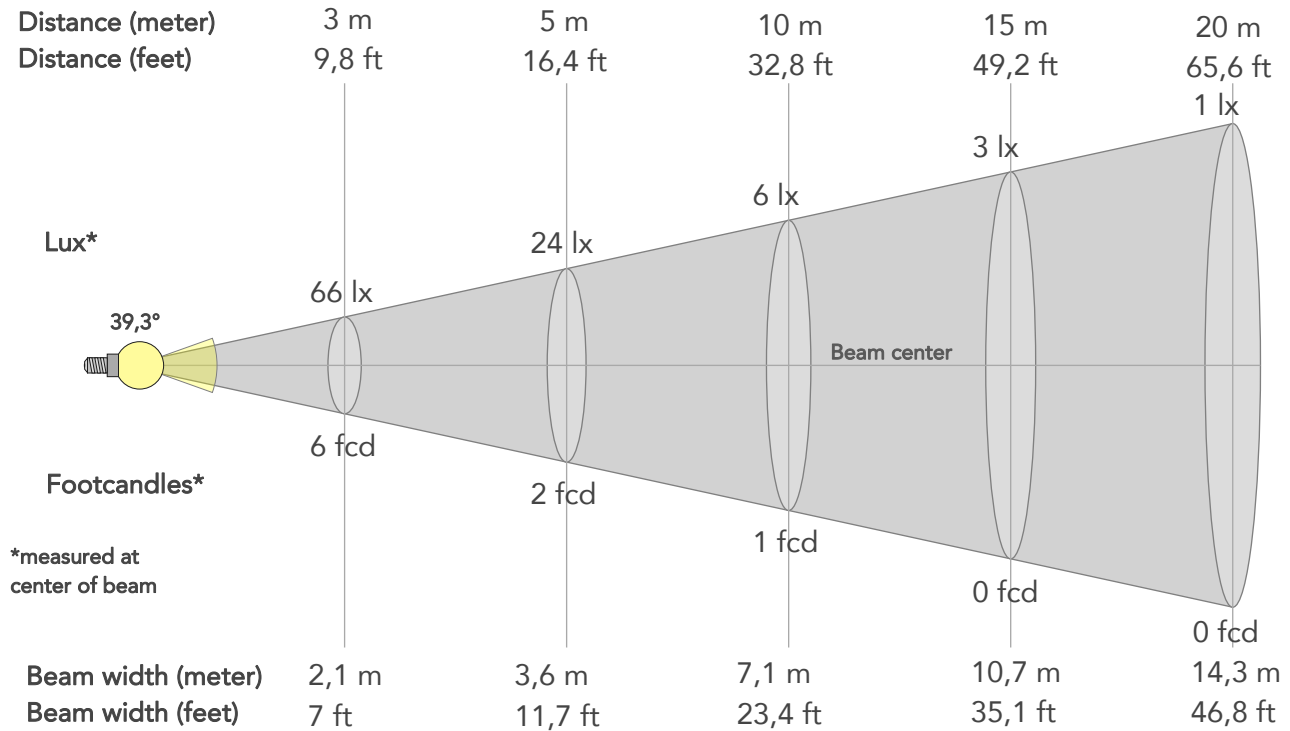
Cut off angle 2.5%: 76,2°

Spectra



BEAM DETAILS

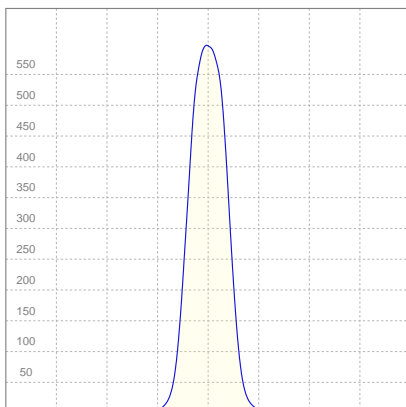
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,3°	60,2°	76,2°	99,2%	97,5%



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	596lx	149lx	66lx	37lx	24lx	11lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	55fcd	14fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,9m	3,6m	5,4m	7,1m	10,7m	14,3m	17,9m	21,4m	28,6m	35,7m
Beam wid.	2,4ft	4,7ft	7ft	9,4ft	11,7ft	17,6ft	23,4ft	35,1ft	46,8ft	58,6ft	70,3ft	93,7ft	117,1ft

LINEAR DISTRIBUTION DIAGRAM

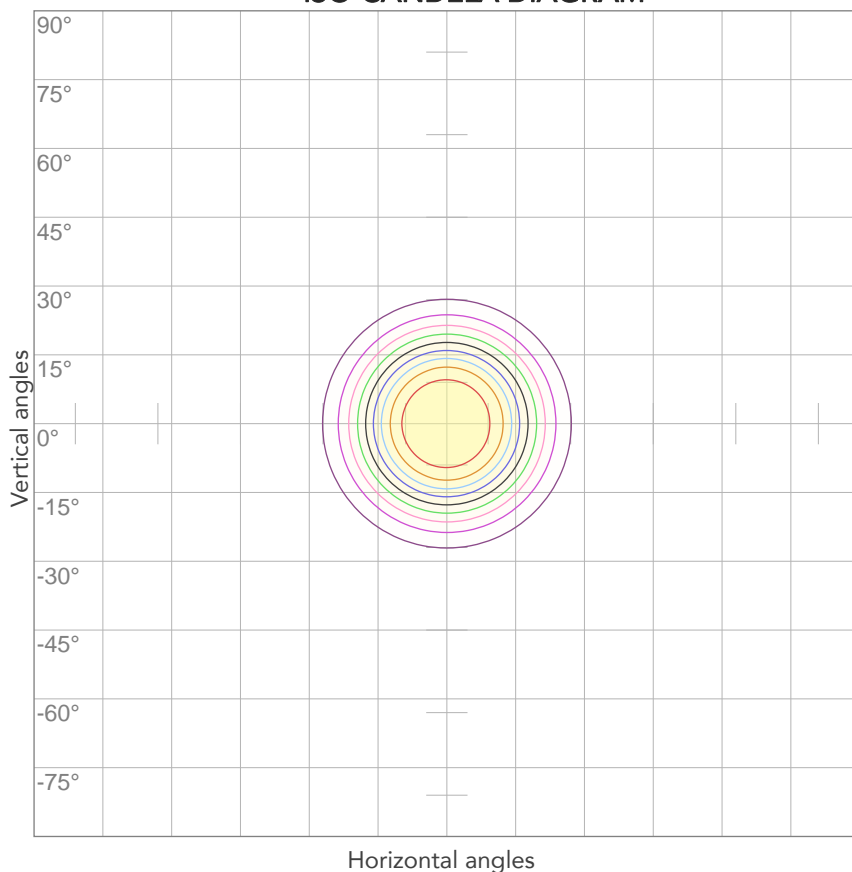


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,000A	-W	+InfinitoIm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



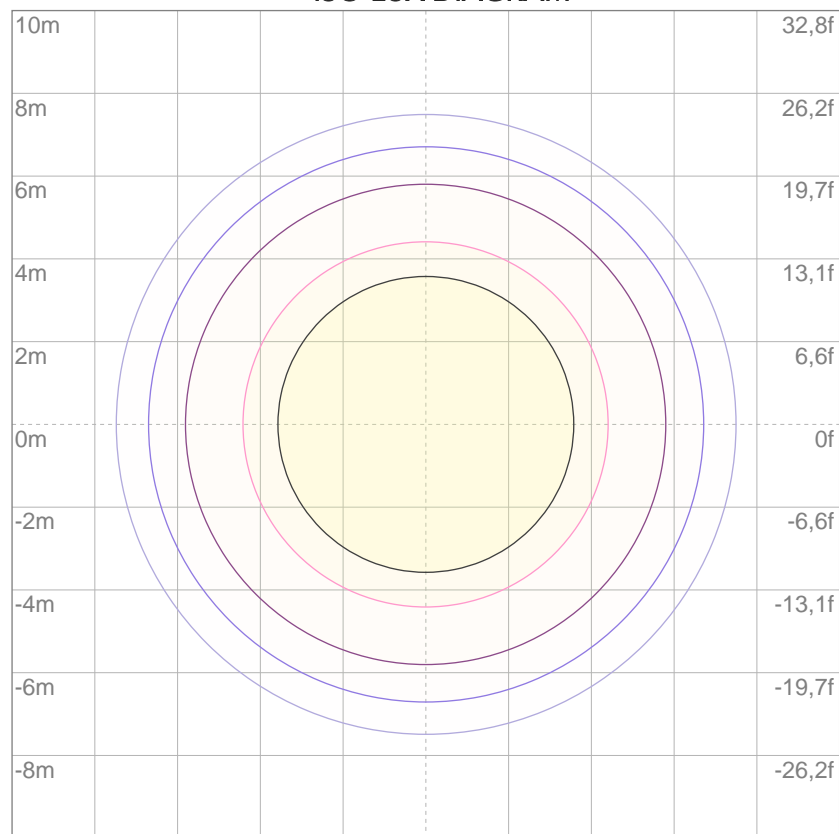
10%	60 cd
20%	119 cd
30%	179 cd
40%	238 cd
50%	298 cd
60%	358 cd
70%	417 cd
80%	477 cd

Conditions:

Number of c-planes: 2

Candela at center: 596 cd

ISO LUX DIAGRAM



3%	0,179 lx
5%	0,298 lx
10%	0,596 lx
30%	1,79 lx
50%	2,98 lx

Conditions:

Number of c-planes: 2

Lux at center: 5,96 lx

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



Total lumen output:

513 lm

Peak candela output:

9041 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Narrow Beam

Target:

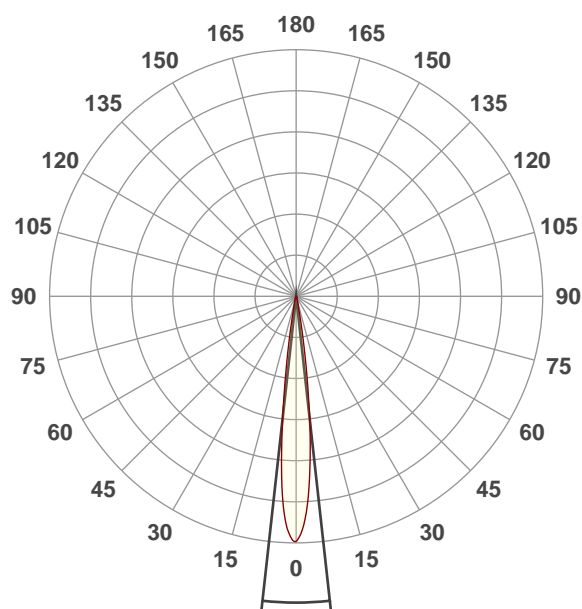
Green

Operator:

Paolo Carvone

Date and time:

25/06/2020 10:06:37

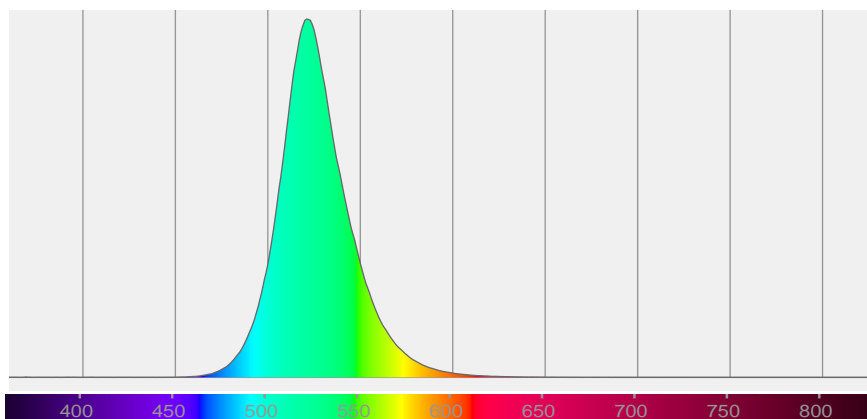


Beam angle 50%: 12,6°

Field angle 10%: 20,8°

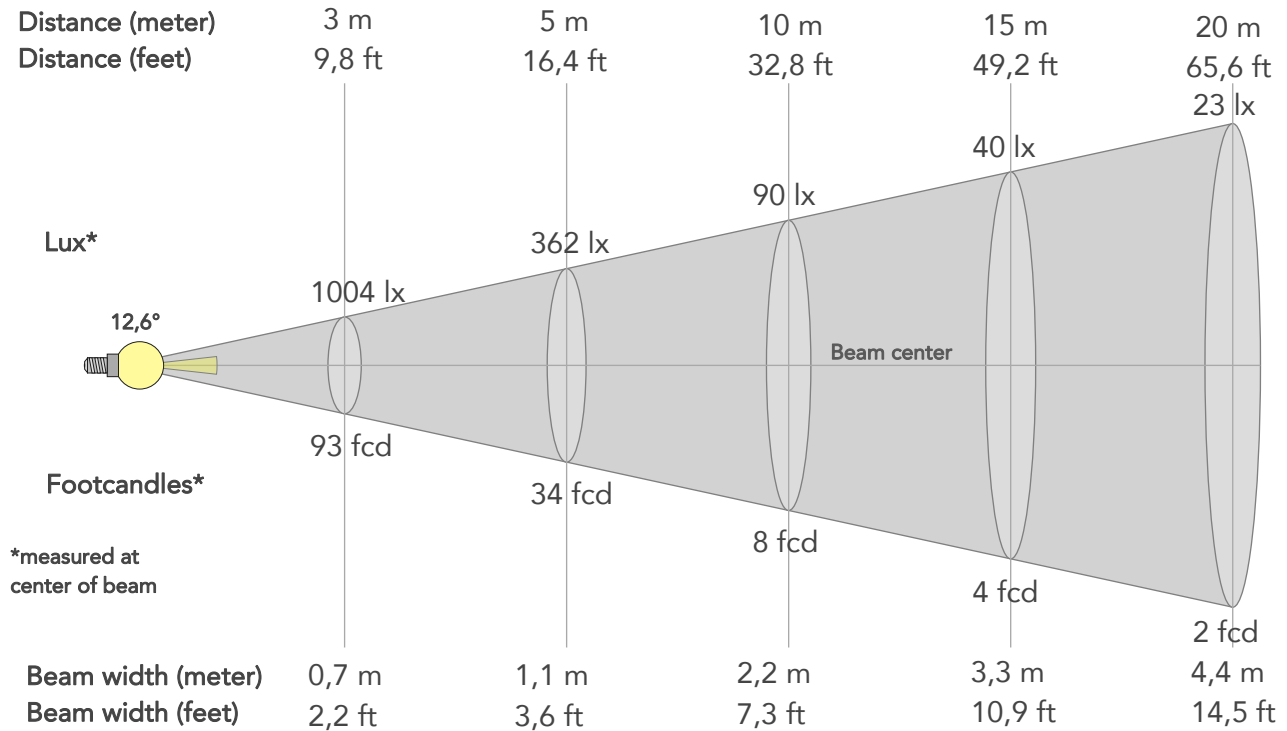
Cut off angle 2.5%: 30,6°

Spectra



BEAM DETAILS

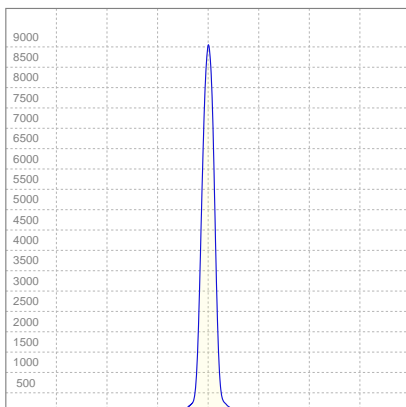
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
12,6°	20,8°	30,6°	99,8%	99,2%



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	9038lx	2259lx	1004lx	565lx	362lx	161lx	90lx	40lx	23lx	14lx	10lx	6lx	4lx
Footcand.	840fcd	210fcd	93fcd	52fcd	34fcd	15fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,2m	0,4m	0,7m	0,9m	1,1m	1,7m	2,2m	3,3m	4,4m	5,5m	6,6m	8,8m	11,1m
Beam wid.	0,7ft	1,5ft	2,2ft	2,9ft	3,6ft	5,4ft	7,3ft	10,9ft	14,5ft	18,1ft	21,8ft	29ft	36,3ft

LINEAR DISTRIBUTION DIAGRAM

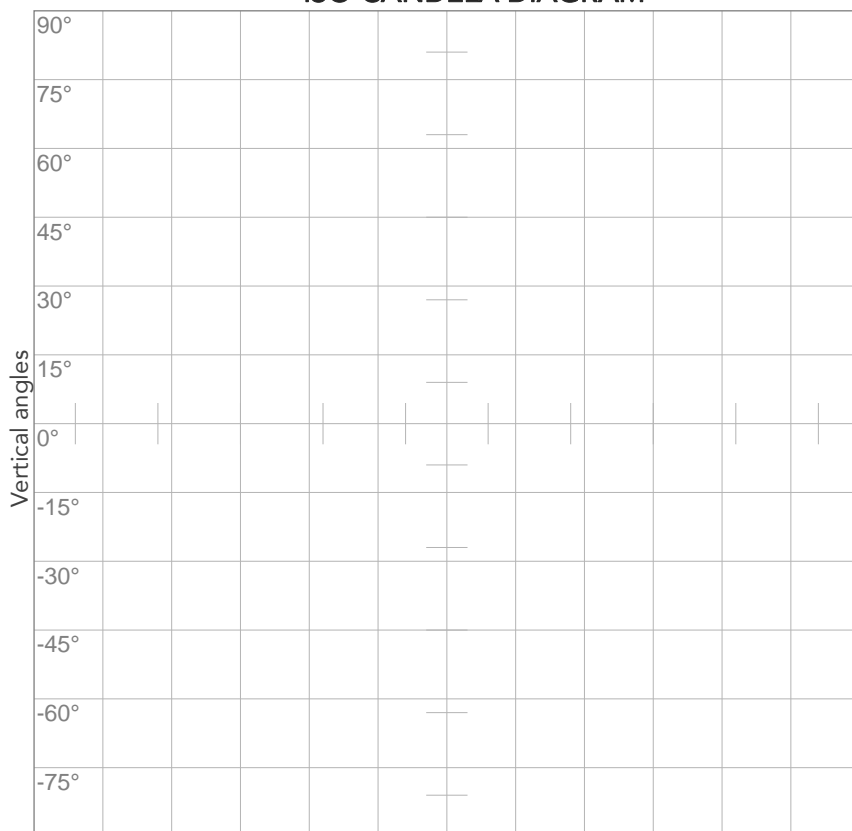


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,000A	-W	+Infinitolm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



Horizontal angles

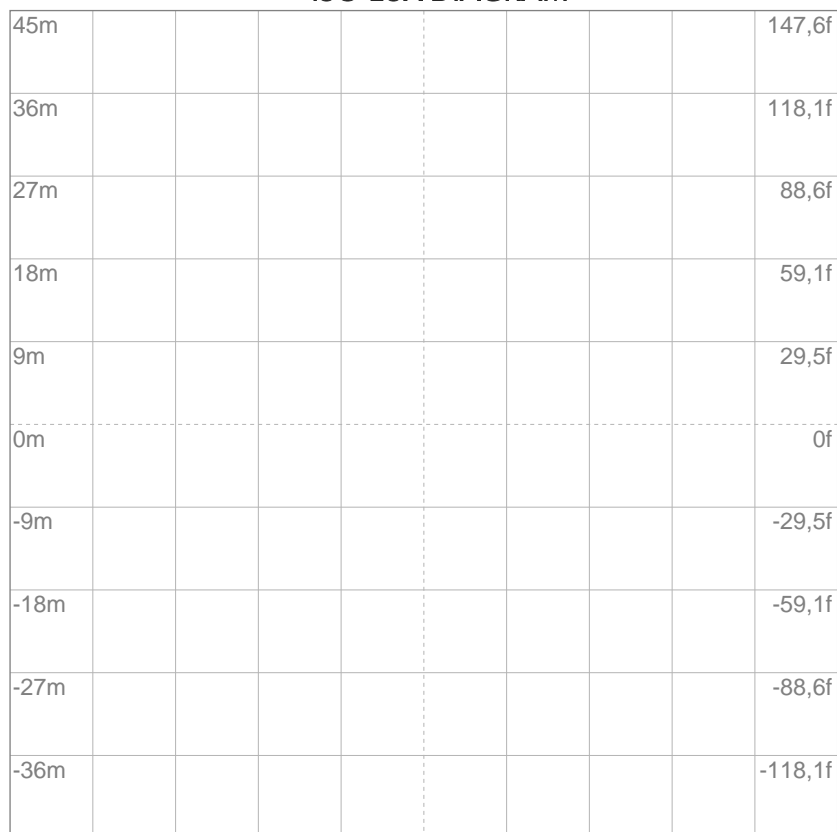
10%	904 cd
20%	1808 cd
30%	2711 cd
40%	3615 cd
50%	4519 cd
60%	5423 cd
70%	6326 cd
80%	7230 cd

Conditions:

Number of c-planes: 2

Candela at center: 9038 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,71 lx
5%	4,52 lx
10%	9,04 lx
30%	27,1 lx
50%	45,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 90,4 lx

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



Total lumen output:

491 lm

Peak candela output:

3162 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Medium Beam

Target:

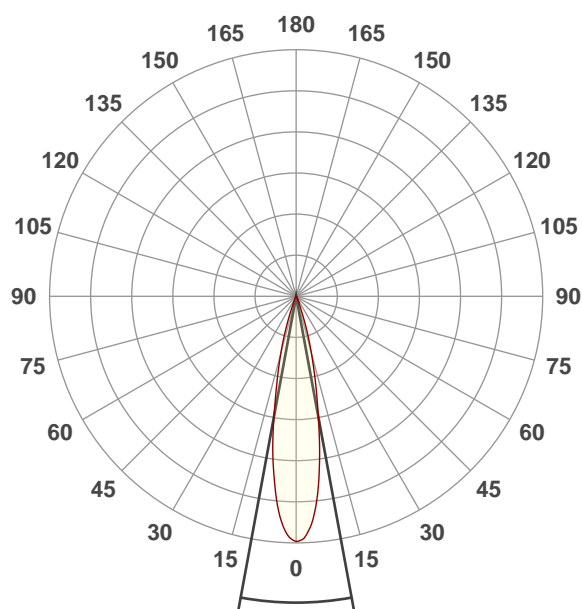
Green

Operator:

Paolo Carvone

Date and time:

01/07/2020 09:25:18

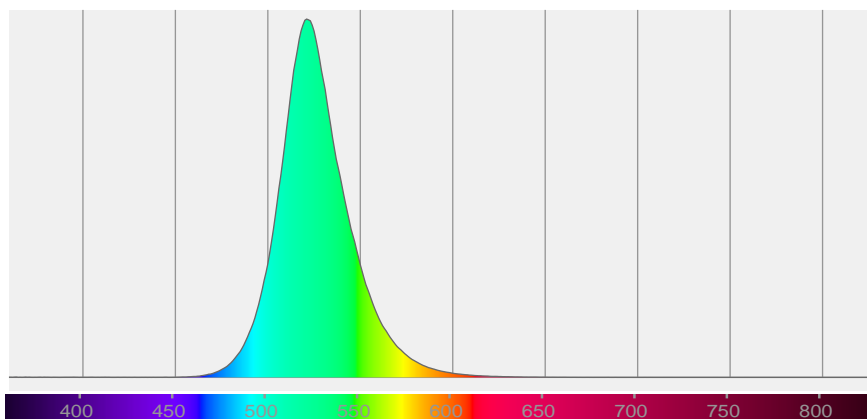


Beam angle 50%: 20,9°

Field angle 10%: 37,3°

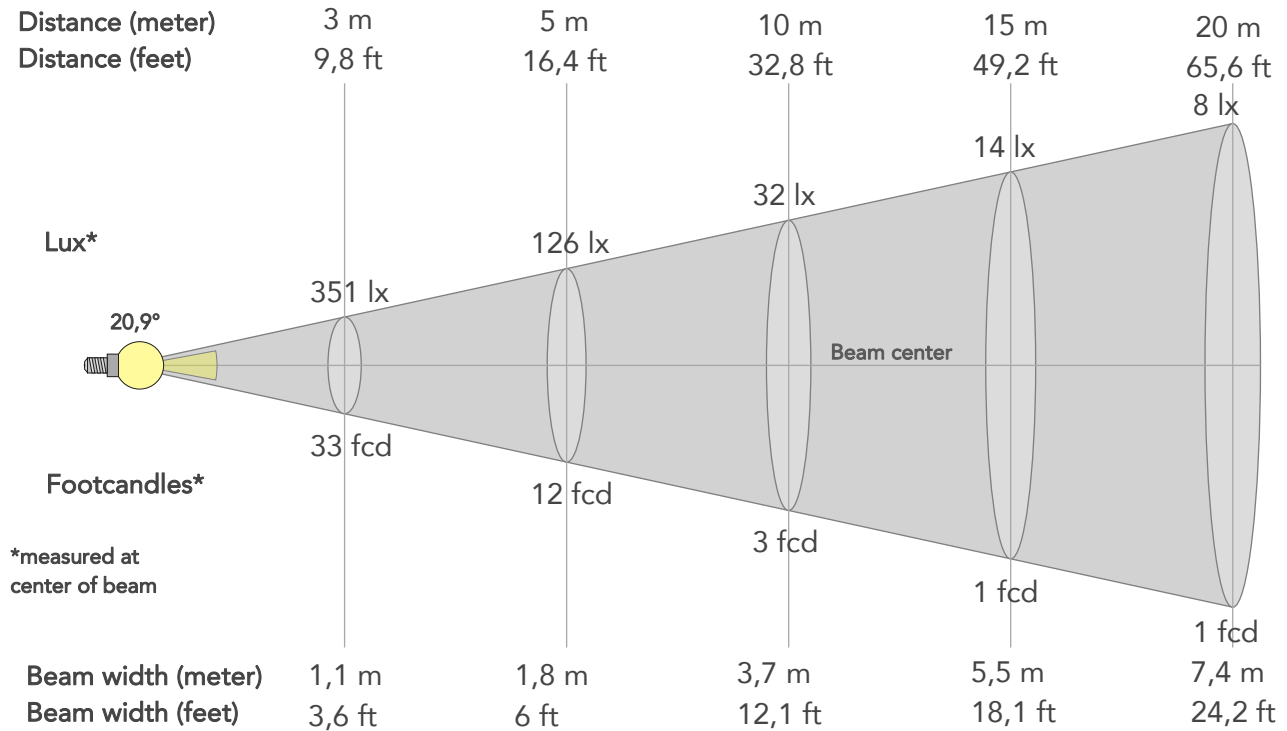
Cut off angle 2.5%: 46,7°

Spectra



BEAM DETAILS

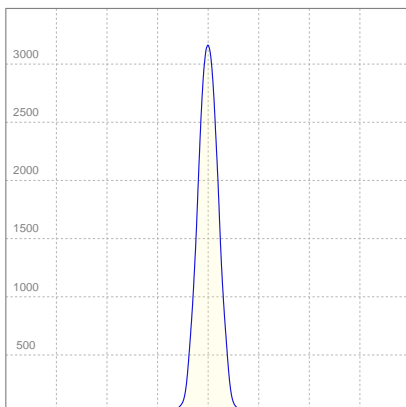
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	37,3°	46,7°	99,6%	98,4%



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	3160lx	790lx	351lx	198lx	126lx	56lx	32lx	14lx	8lx	5lx	4lx	2lx	1lx
Footcand.	294fcd	73fcd	33fcd	18fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,2ft	30,2ft	36,2ft	48,3ft	60,4ft

LINEAR DISTRIBUTION DIAGRAM

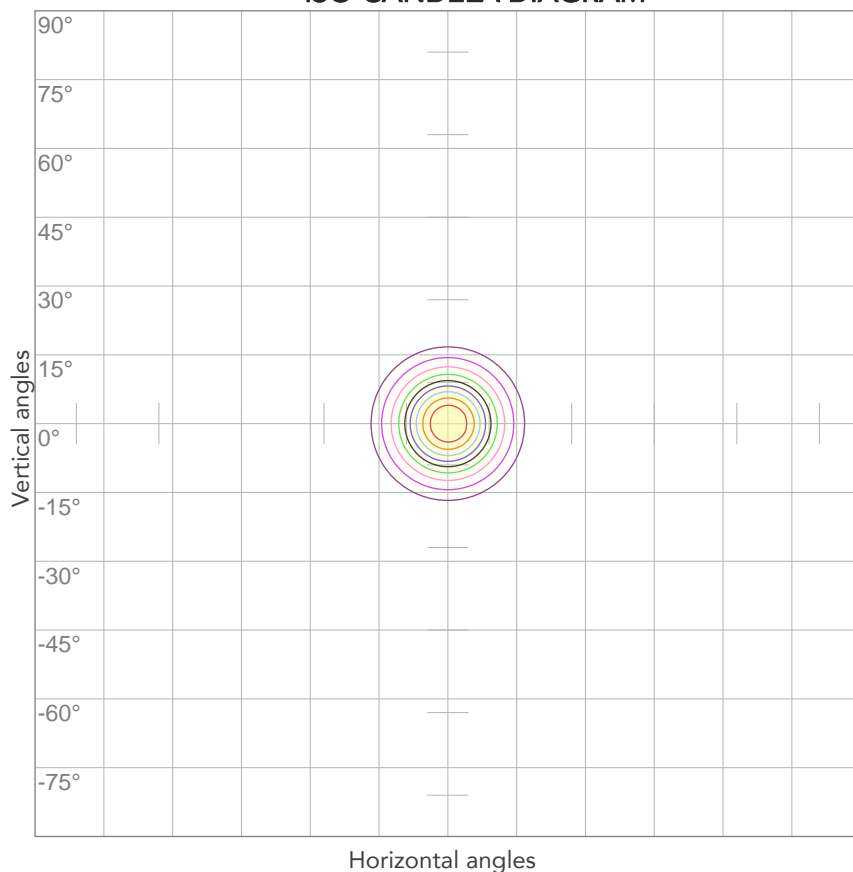


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,000A	-W	+Infinitolm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



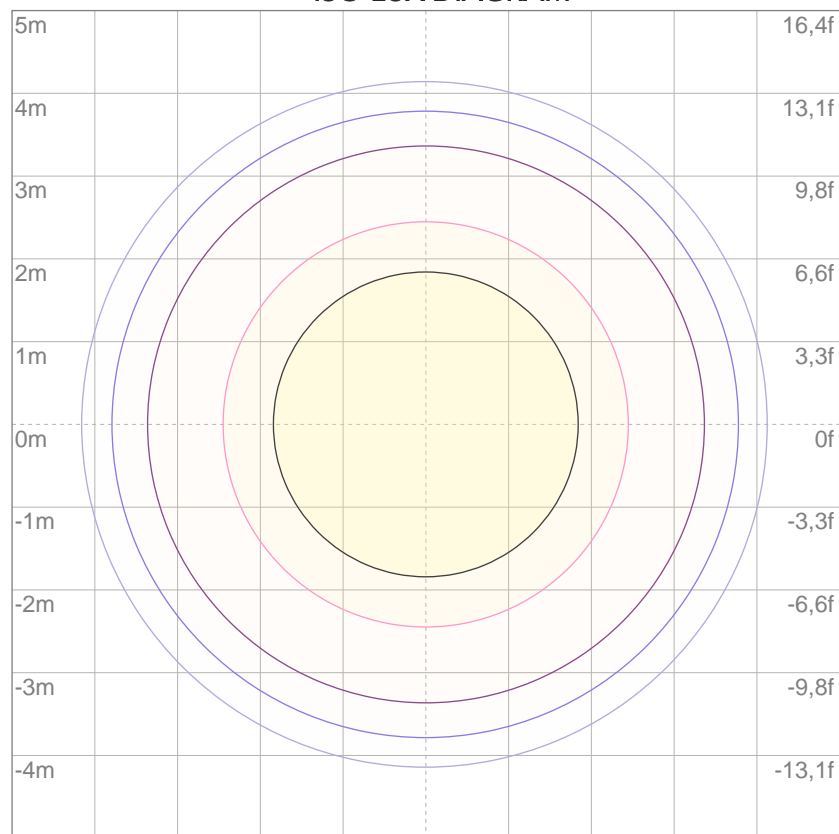
10%	316 cd
20%	632 cd
30%	948 cd
40%	1264 cd
50%	1580 cd
60%	1896 cd
70%	2212 cd
80%	2528 cd

Conditions:

Number of c-planes: 2

Candela at center: 3160 cd

ISO LUX DIAGRAM



3%	0,948 lx
5%	1,58 lx
10%	3,16 lx
30%	9,48 lx
50%	15,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 31,6 lx

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



Total lumen output:

479 lm

Peak candela output:

1049 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Wide Beam

Target:

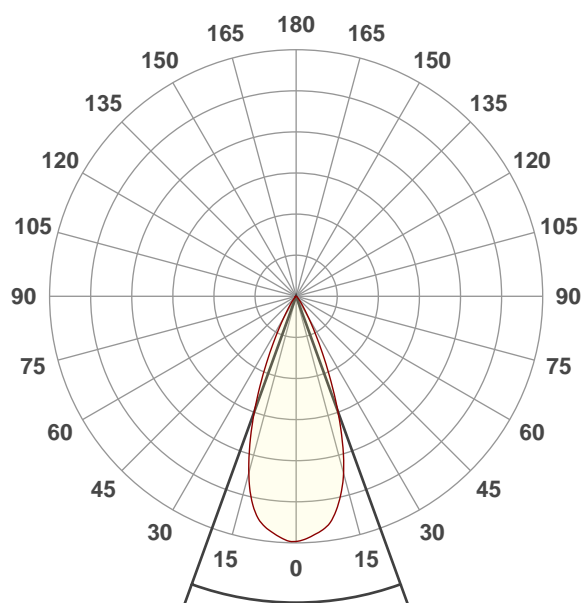
Green

Operator:

Paolo Carvone

Date and time:

30/06/2020 12:42:29

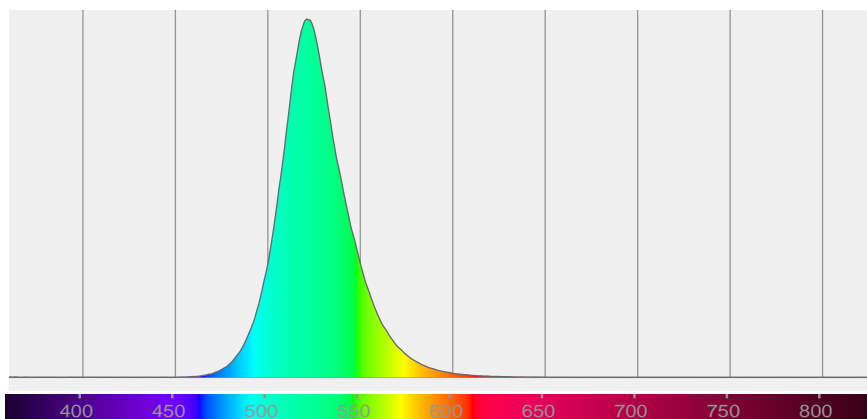


Beam angle 50%: 39,9°

Field angle 10%: 60,3°

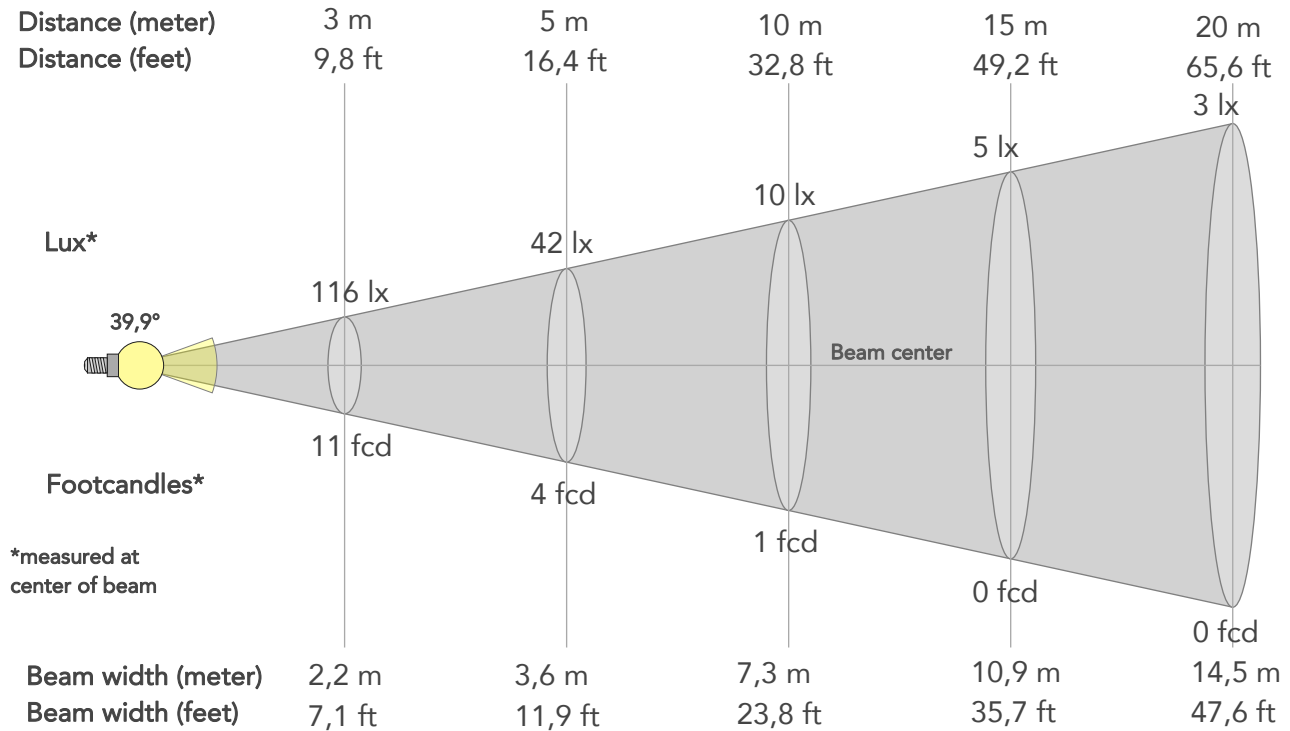
Cut off angle 2.5%: 77,2°

Spectra



BEAM DETAILS

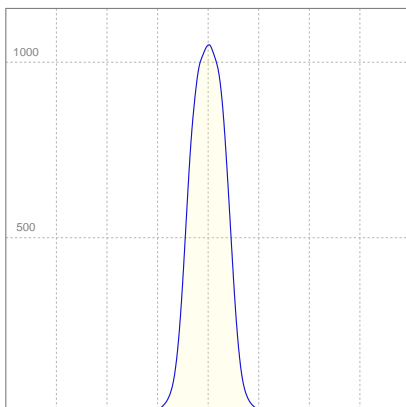
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,9°	60,3°	77,2°	99,3%	97,5%



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	1048lx	262lx	116lx	65lx	42lx	19lx	10lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	97fcd	24fcd	11fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,5m	2,2m	2,9m	3,6m	5,4m	7,3m	10,9m	14,5m	18,1m	21,8m	29m	36,3m
Beam wid.	2,4ft	4,8ft	7,1ft	9,5ft	11,9ft	17,8ft	23,8ft	35,7ft	47,6ft	59,5ft	71,4ft	95,1ft	118,9ft

LINEAR DISTRIBUTION DIAGRAM

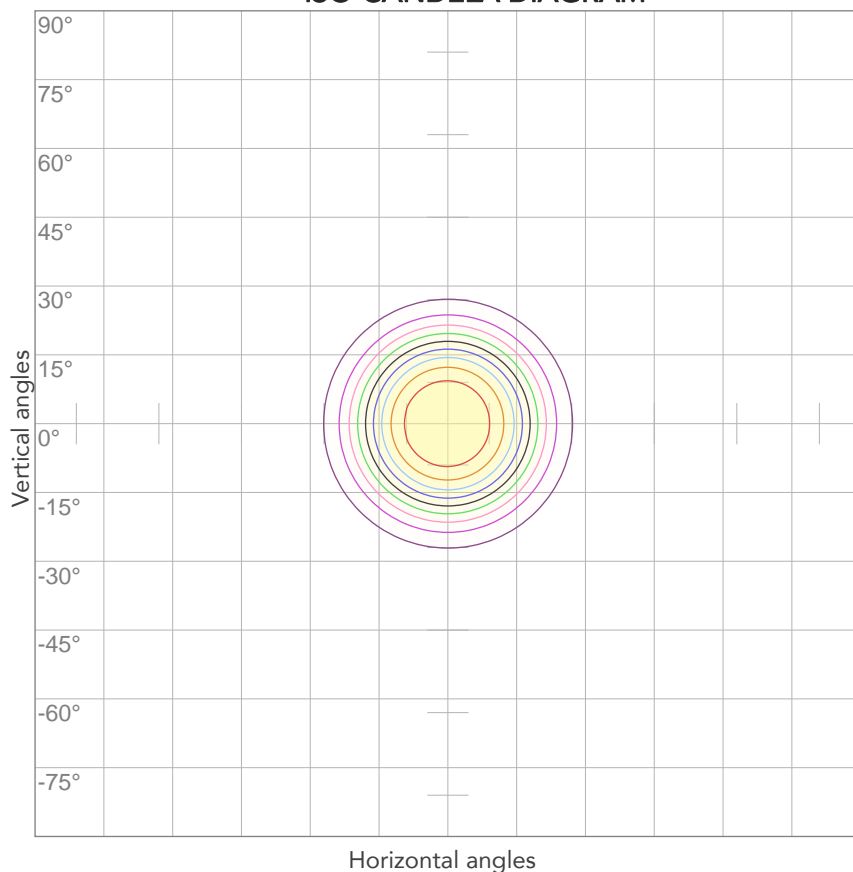


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,000A	-W	+InfinitoIm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



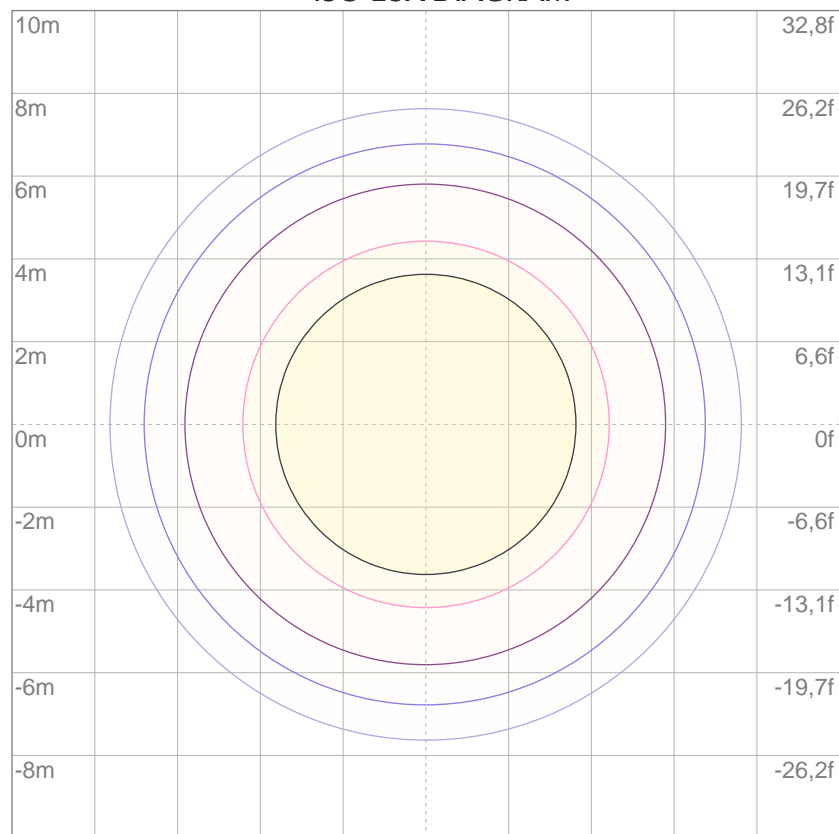
10%	105 cd
20%	210 cd
30%	314 cd
40%	419 cd
50%	524 cd
60%	629 cd
70%	734 cd
80%	838 cd

Conditions:

Number of c-planes: 2

Candela at center: 1048 cd

ISO LUX DIAGRAM



3%	0,314 lx
5%	0,524 lx
10%	1,05 lx
30%	3,14 lx
50%	5,24 lx

Conditions:

Number of c-planes: 2

Lux at center: 10,5 lx

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



Total lumen output:

93,3 lm

Peak candela output:

2145 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Narrow Beam

Target:

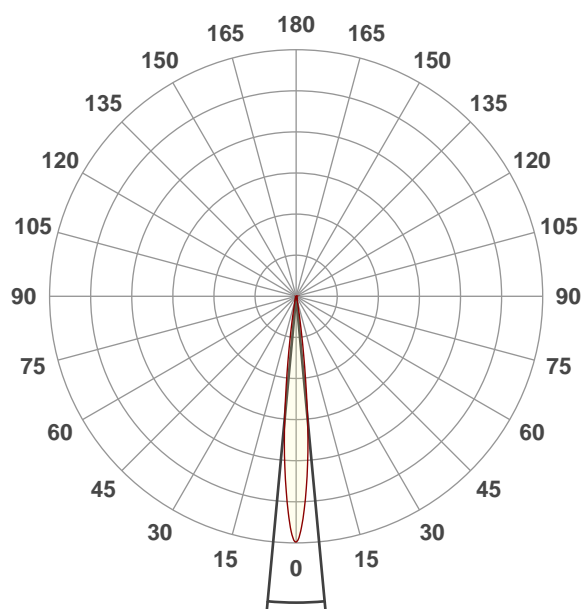
Blue

Operator:

Paolo Carvone

Date and time:

25/06/2020 10:08:22

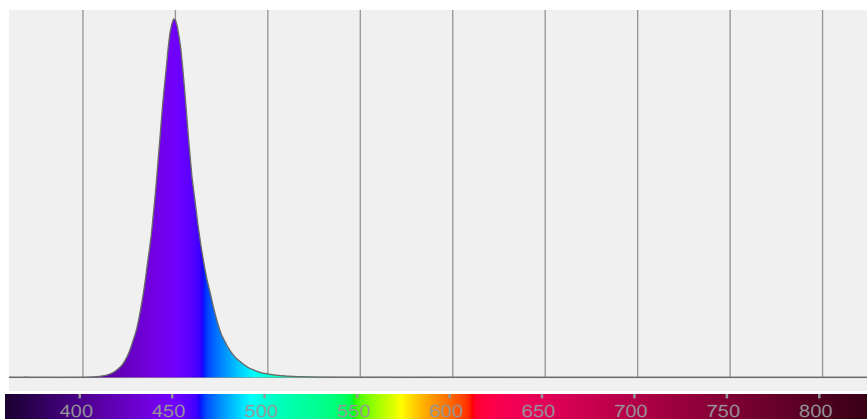


Beam angle 50%: 10,7°

Field angle 10%: 18,5°

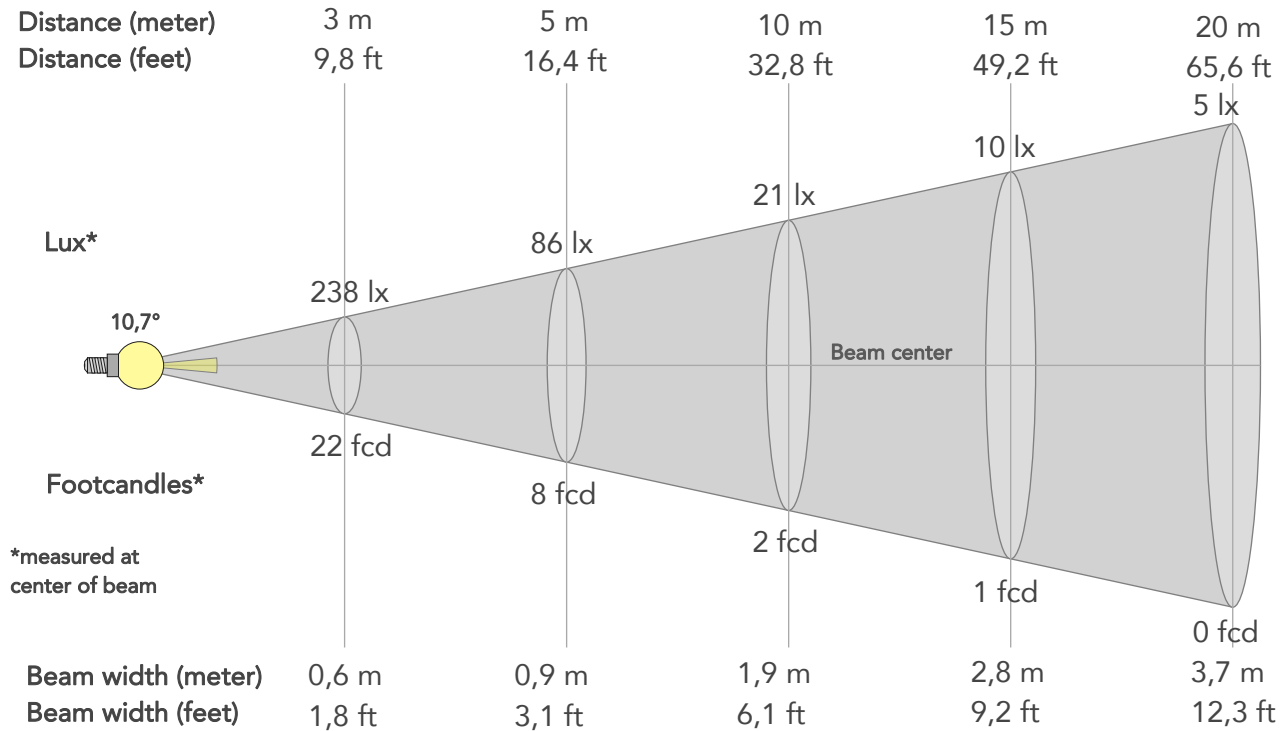
Cut off angle 2.5%: 26,6°

Spectra



BEAM DETAILS

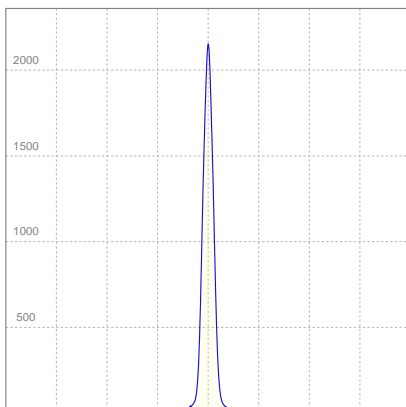
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,7°	18,5°	26,6°	99,7%	99,1%



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	2138lx	535lx	238lx	134lx	86lx	38lx	21lx	10lx	5lx	3lx	2lx	1lx	1lx
Footcand.	199fcd	50fcd	22fcd	12fcd	8fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,2m	0,4m	0,6m	0,7m	0,9m	1,4m	1,9m	2,8m	3,7m	4,7m	5,6m	7,5m	9,3m
Beam wid.	0,6ft	1,2ft	1,8ft	2,4ft	3,1ft	4,6ft	6,1ft	9,2ft	12,3ft	15,3ft	18,4ft	24,5ft	30,6ft

LINEAR DISTRIBUTION DIAGRAM

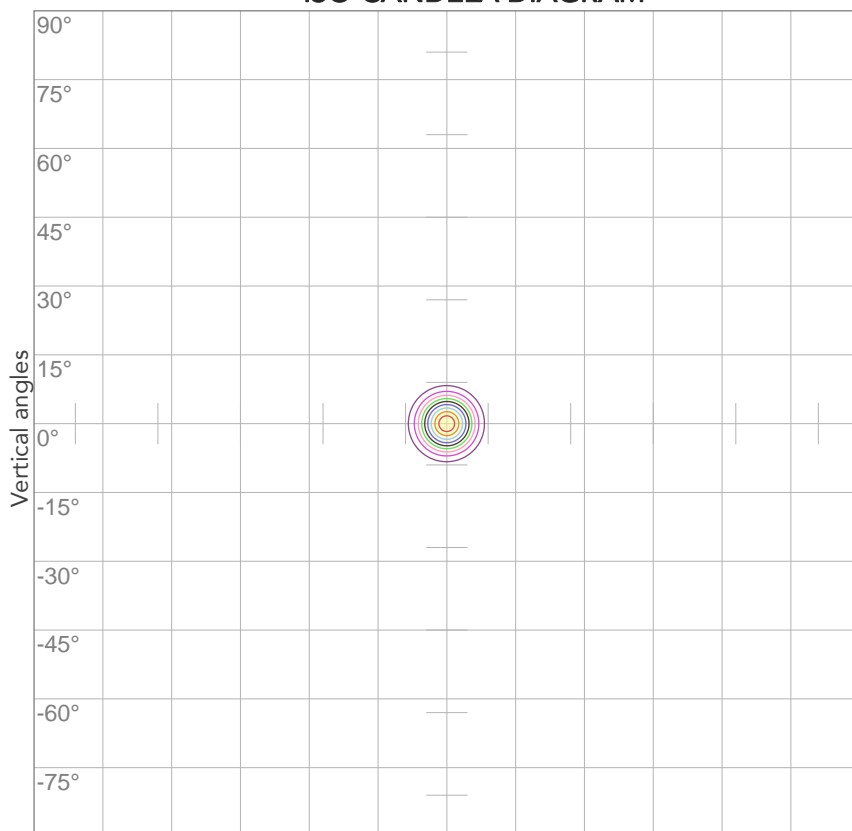


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
229V	0,000A	-W	+Infinitolm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



Horizontal angles

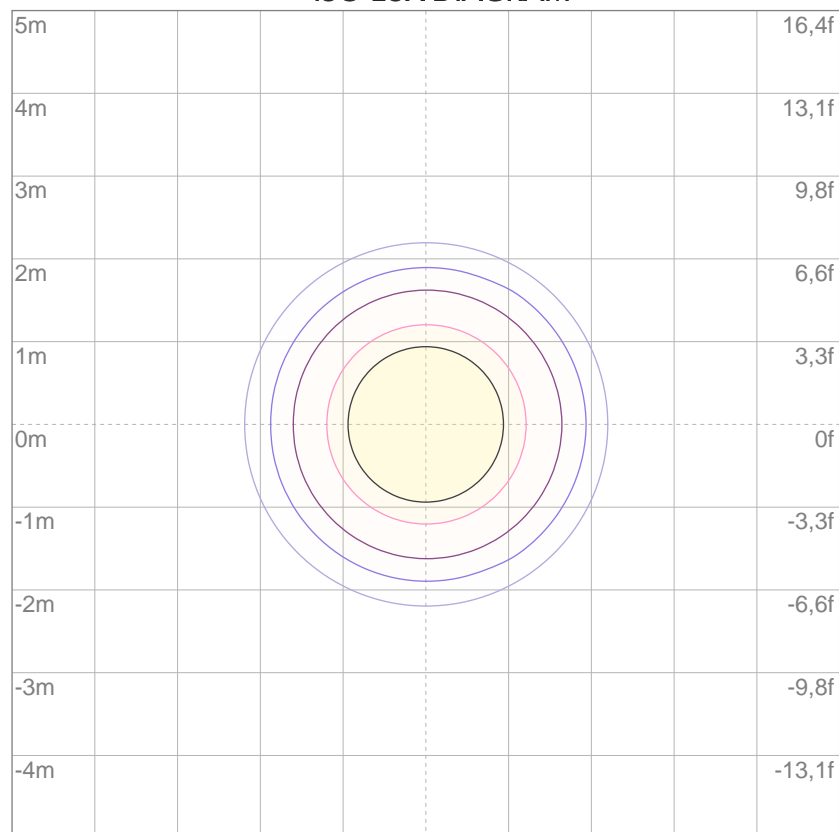
10%	214 cd
20%	428 cd
30%	642 cd
40%	855 cd
50%	1069 cd
60%	1283 cd
70%	1497 cd
80%	1711 cd

Conditions:

Number of c-planes: 2

Candela at center: 2138 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

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

Conditions:

Number of c-planes: 2

Lux at center: 21,4 lx

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



Total lumen output:

88,4 lm

Peak candela output:

578 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Medium Beam

Target:

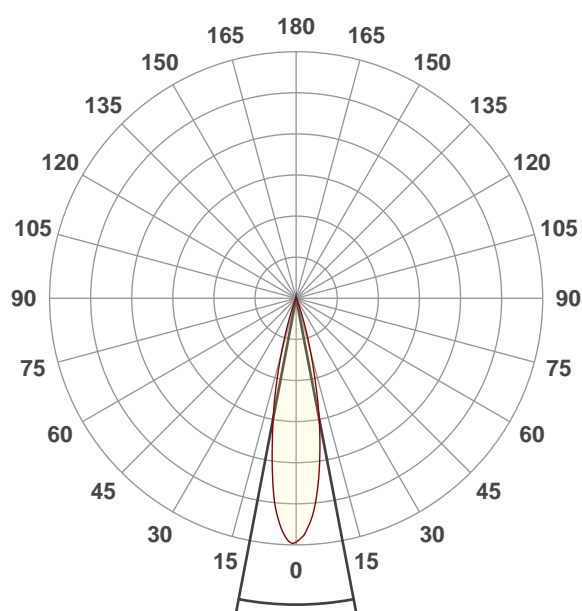
Blue

Operator:

Paolo Carvone

Date and time:

01/07/2020 09:27:12

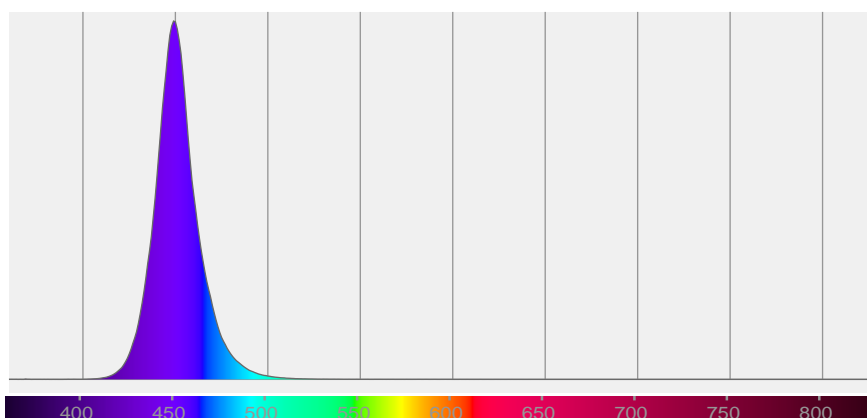


Beam angle 50%: 21,6°

Field angle 10%: 36,2°

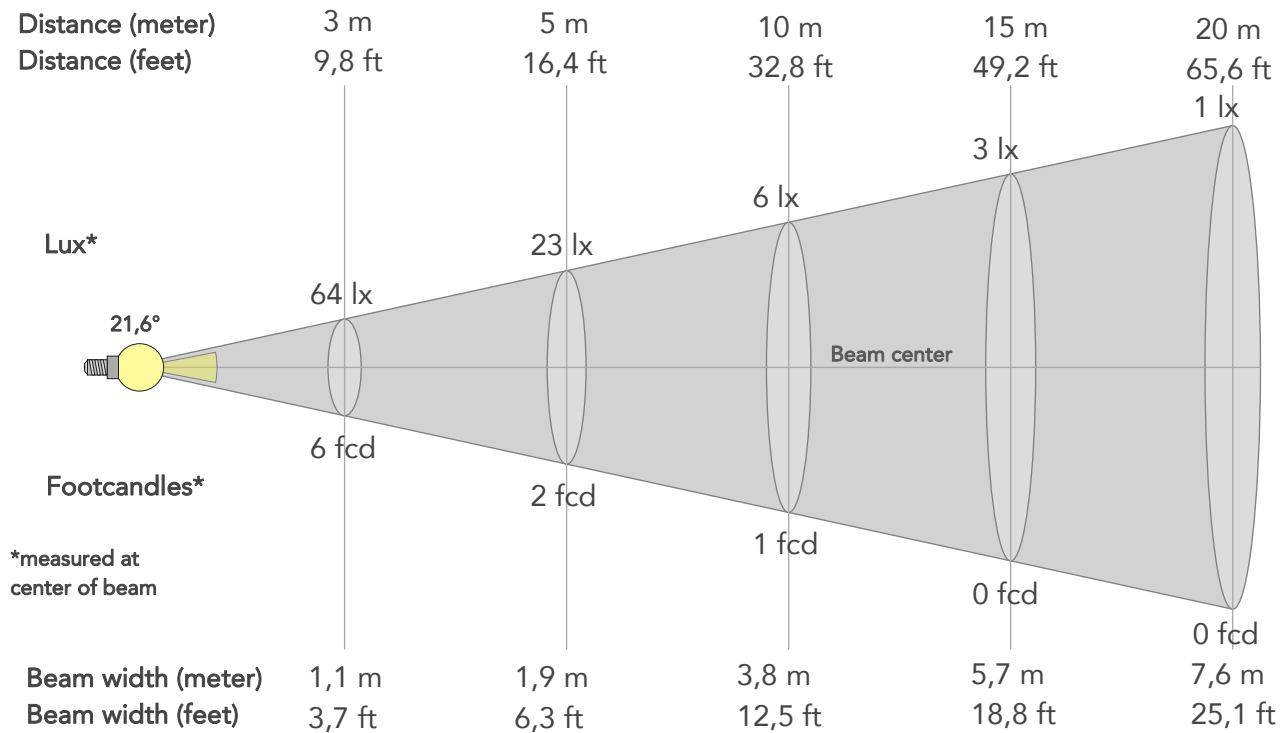
Cut off angle 2.5%: 45,2°

Spectra



BEAM DETAILS

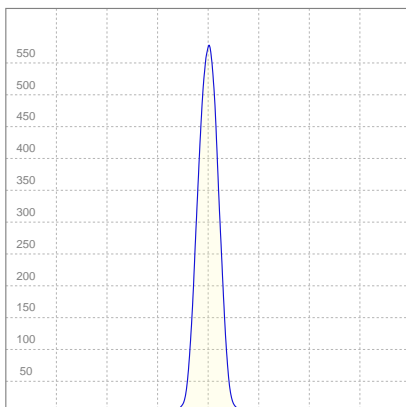
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21,6°	36,2°	45,2°	99,6%	98,4%



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	574lx	144lx	64lx	36lx	23lx	10lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	53fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,8m	1,1m	1,5m	1,9m	2,9m	3,8m	5,7m	7,6m	9,6m	11,5m	15,3m	19,1m
Beam wid.	1,3ft	2,5ft	3,7ft	5ft	6,3ft	9,4ft	12,5ft	18,8ft	25,1ft	31,3ft	37,6ft	50,1ft	62,7ft

LINEAR DISTRIBUTION DIAGRAM

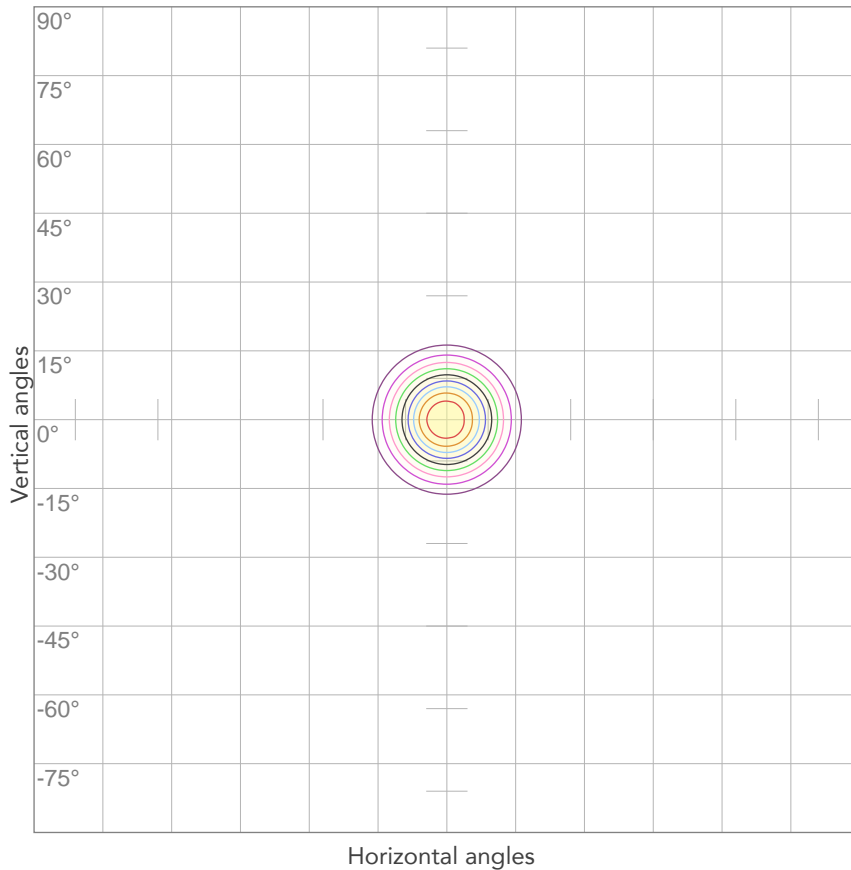


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,000A	-W	+Infinitolm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



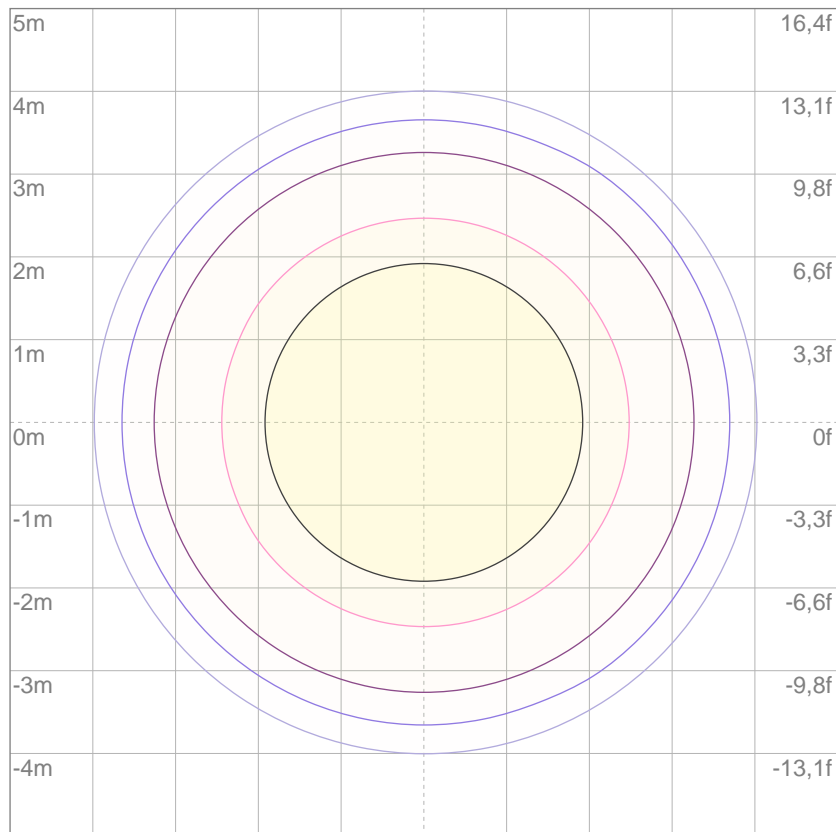
10%	57 cd
20%	115 cd
30%	172 cd
40%	230 cd
50%	287 cd
60%	345 cd
70%	402 cd
80%	460 cd

Conditions:

Number of c-planes: 2

Candela at center: 574 cd

ISO LUX DIAGRAM



3%	0,172 lx
5%	0,287 lx
10%	0,574 lx
30%	1,72 lx
50%	2,87 lx

Conditions:

Number of c-planes: 2

Lux at center: 5,74 lx

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



Total lumen output:

86,4 lm

Peak candela output:

192 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Wide Beam

Target:

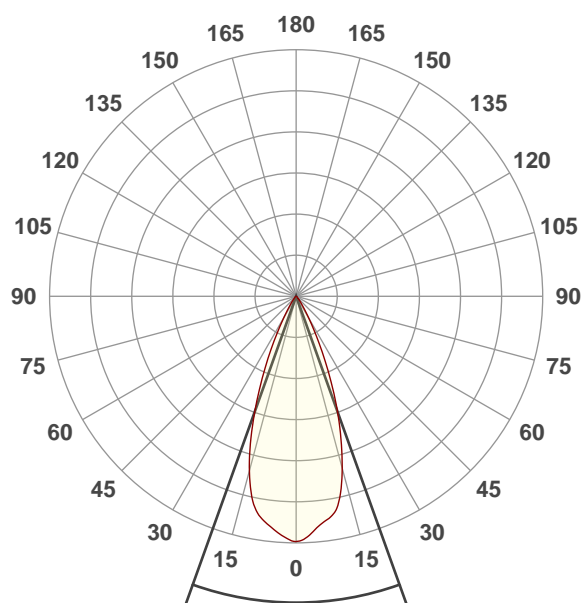
Blue

Operator:

Paolo Carvone

Date and time:

30/06/2020 12:44:18

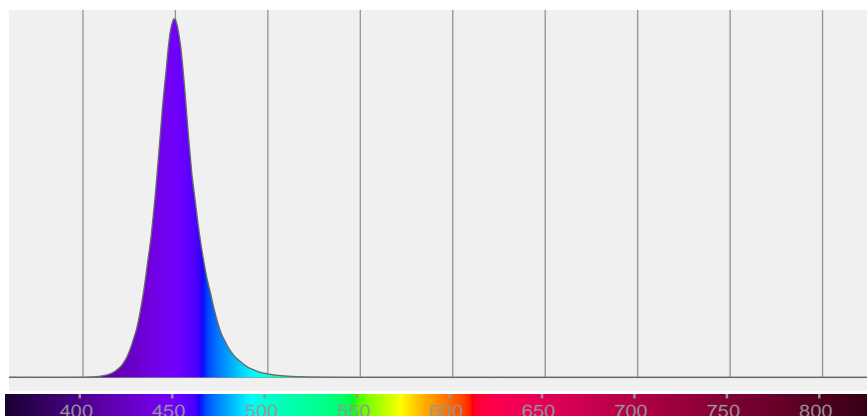


Beam angle 50%: 39,4°

Field angle 10%: 60,3°

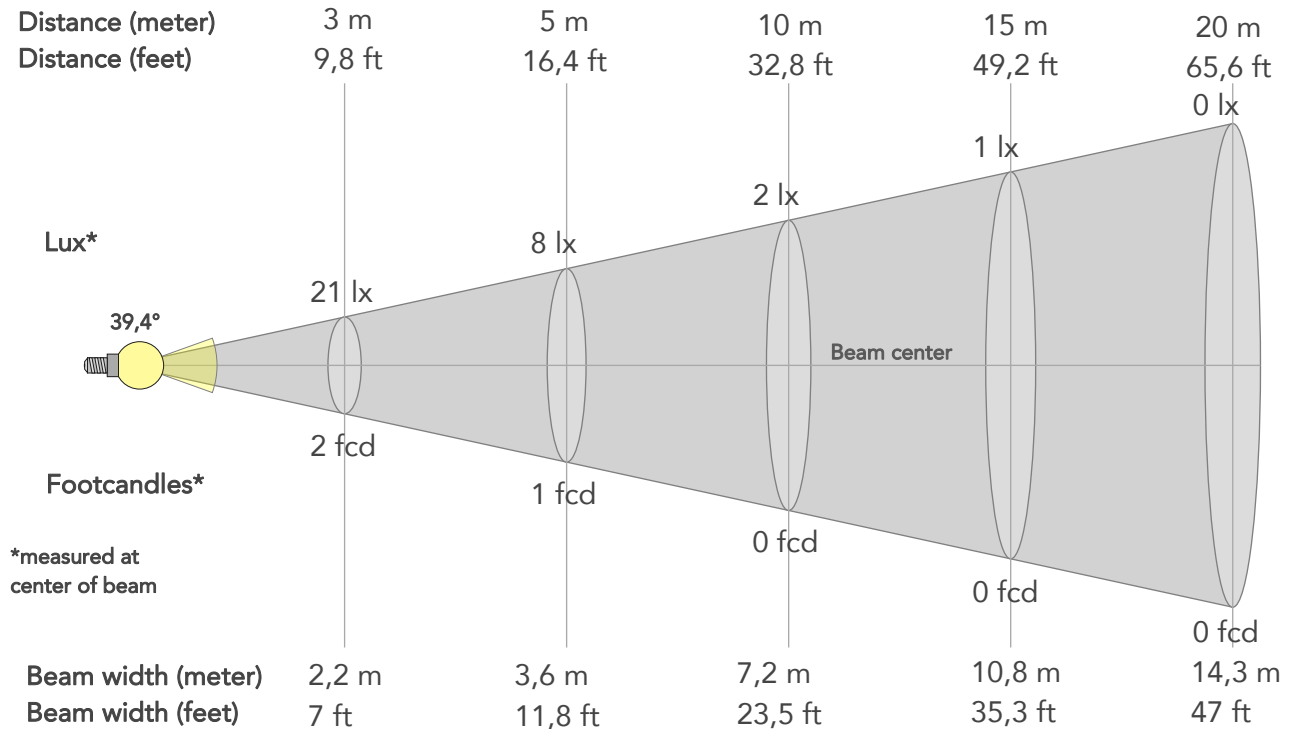
Cut off angle 2.5%: 76,3°

Spectra



BEAM DETAILS

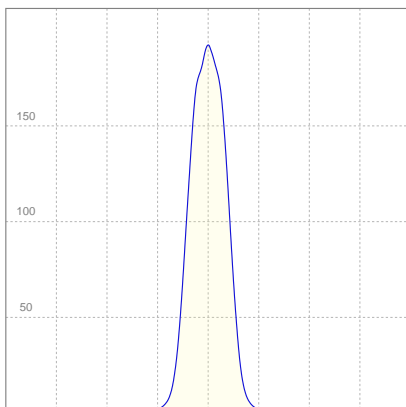
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,4°	60,3°	76,3°	99,2%	97,5%



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	192lx	48lx	21lx	12lx	8lx	3lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	18fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,2m	2,9m	3,6m	5,4m	7,2m	10,8m	14,3m	17,9m	21,5m	28,7m	35,9m
Beam wid.	2,4ft	4,7ft	7ft	9,4ft	11,8ft	17,6ft	23,5ft	35,3ft	47ft	58,8ft	70,6ft	94,1ft	117,6ft

LINEAR DISTRIBUTION DIAGRAM

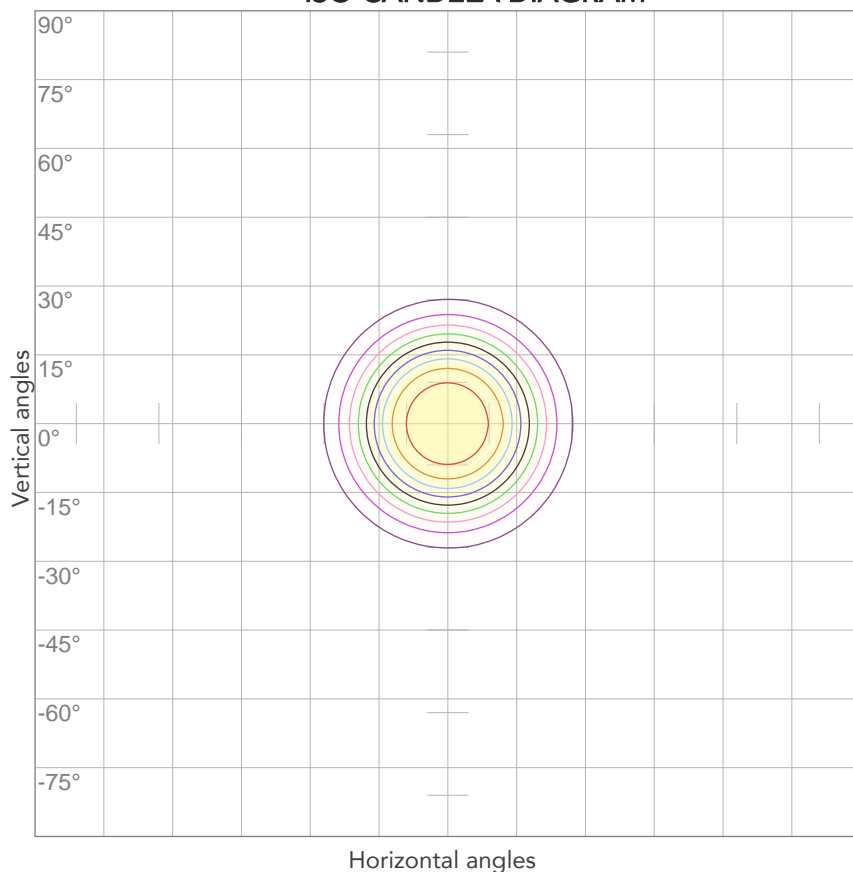


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,000A	-W	+InfinitoIm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



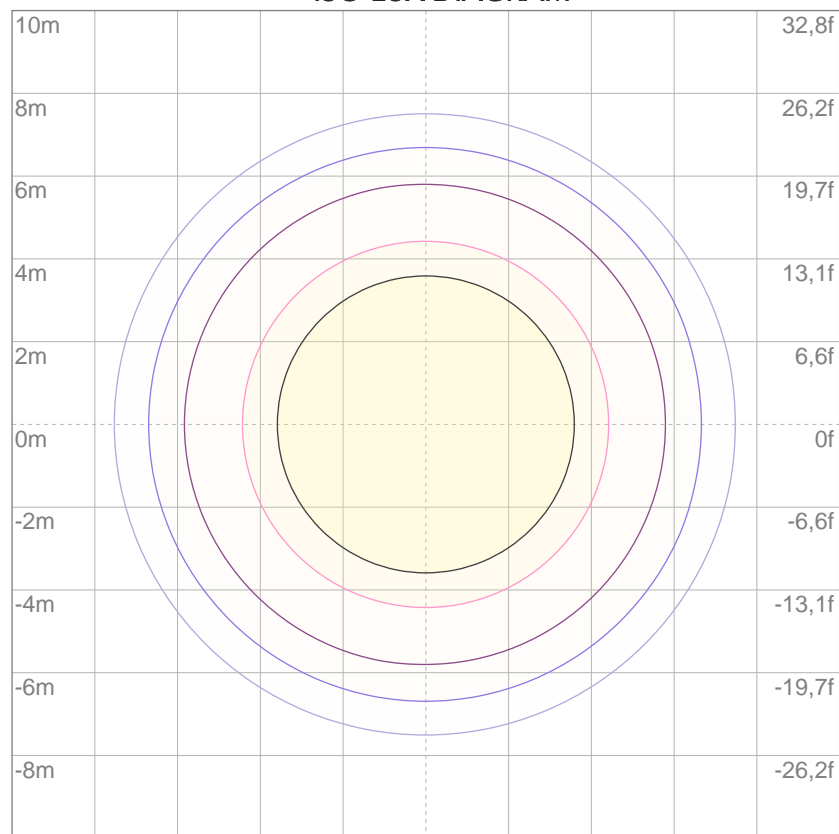
10%	19 cd
20%	38 cd
30%	58 cd
40%	77 cd
50%	96 cd
60%	115 cd
70%	134 cd
80%	153 cd

Conditions:

Number of c-planes: 2

Candela at center: 192 cd

ISO LUX DIAGRAM



3%	57,6m lx
5%	95,9m lx
10%	0,192 lx
30%	0,576 lx
50%	0,959 lx

Conditions:

Number of c-planes: 2

Lux at center: 1,92 lx

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



Total lumen output:

571 lm

Peak candela output:

11433 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Narrow Beam

Target:

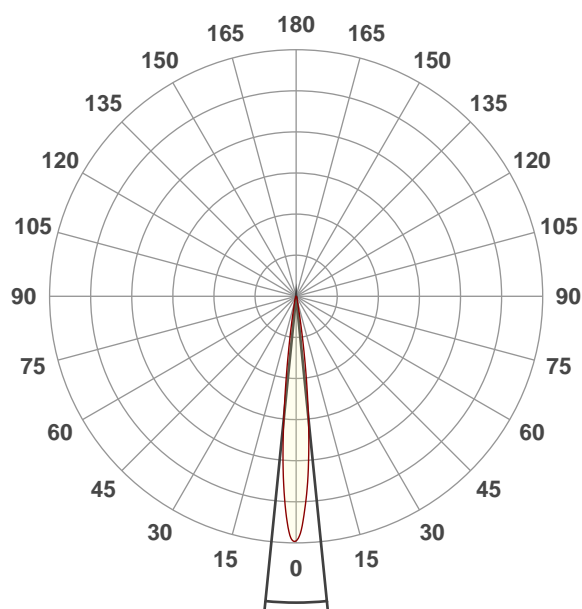
White

Operator:

Paolo Carvone

Date and time:

01/07/2020 09:47:03

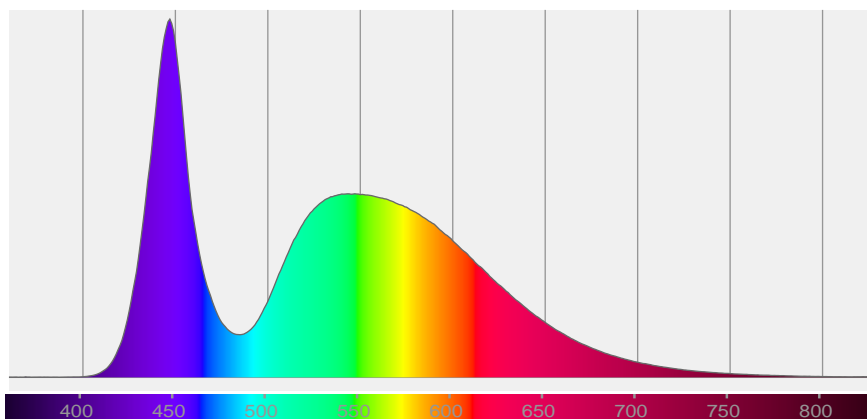


Beam angle 50%: 11,5°

Field angle 10%: 19,5°

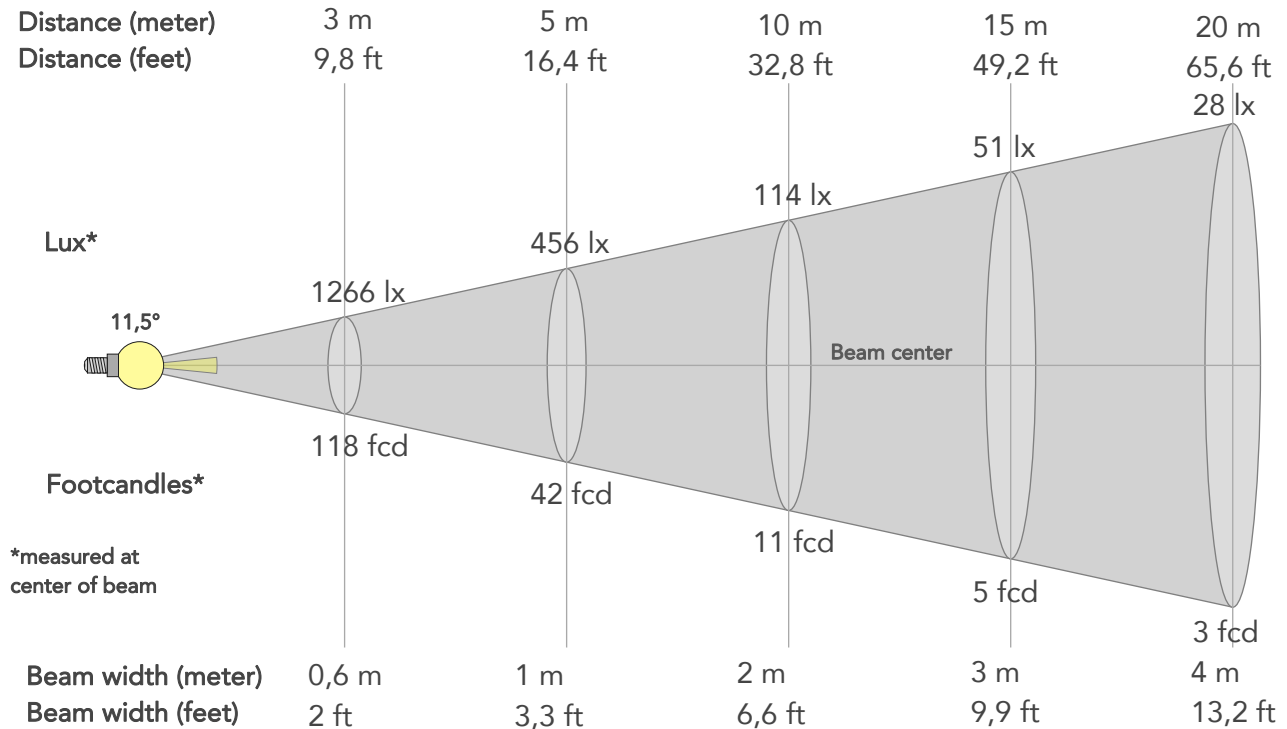
Cut off angle 2.5%: 29,6°

Spectra



BEAM DETAILS

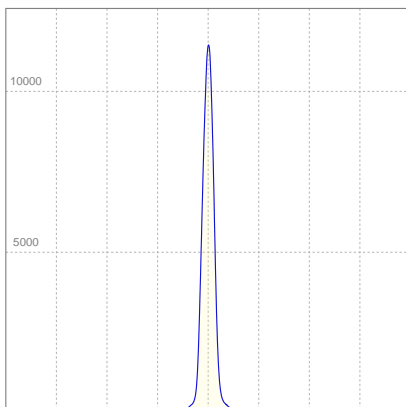
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,5°	19,5°	29,6°	100,0%	99,5%



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	11398lx	2849lx	1266lx	712lx	456lx	203lx	114lx	51lx	28lx	18lx	13lx	7lx	5lx
Footcand.	1059fcd	265fcd	118fcd	66fcd	42fcd	19fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,5m	2m	3m	4m	5m	6m	8,1m	10,1m
Beam wid.	0,7ft	1,3ft	2ft	2,6ft	3,3ft	5ft	6,6ft	9,9ft	13,2ft	16,5ft	19,8ft	26,4ft	33,1ft

LINEAR DISTRIBUTION DIAGRAM

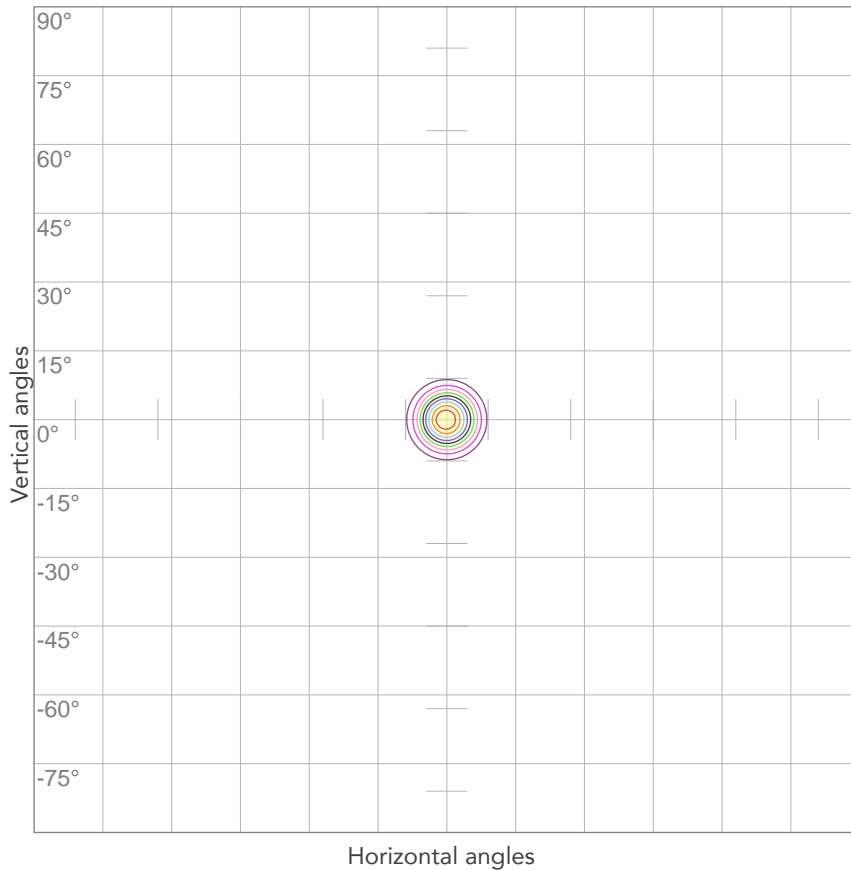


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,000A	-W	+InfinitoIm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



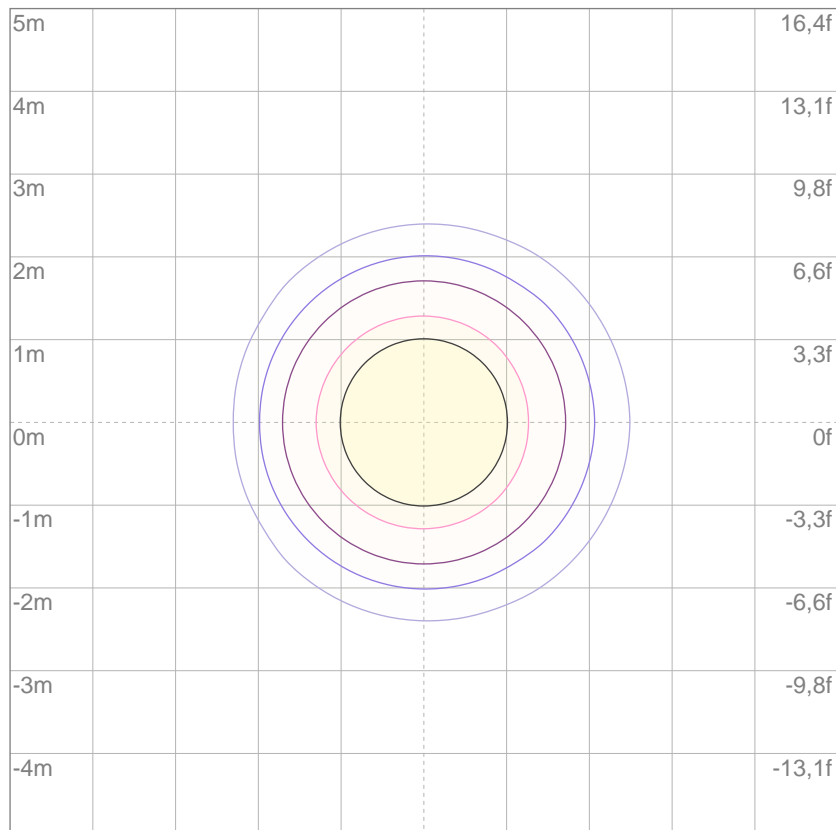
10%	1140 cd
20%	2280 cd
30%	3419 cd
40%	4559 cd
50%	5699 cd
60%	6839 cd
70%	7978 cd
80%	9118 cd

Conditions:

Number of c-planes: 2

Candela at center: 11398 cd

ISO LUX DIAGRAM



3%	3,42 lx
5%	5,70 lx
10%	11,4 lx
30%	34,2 lx
50%	57,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 114 lx

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



Total lumen output:

601 lm

Peak candela output:

3913 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Medium Beam

Target:

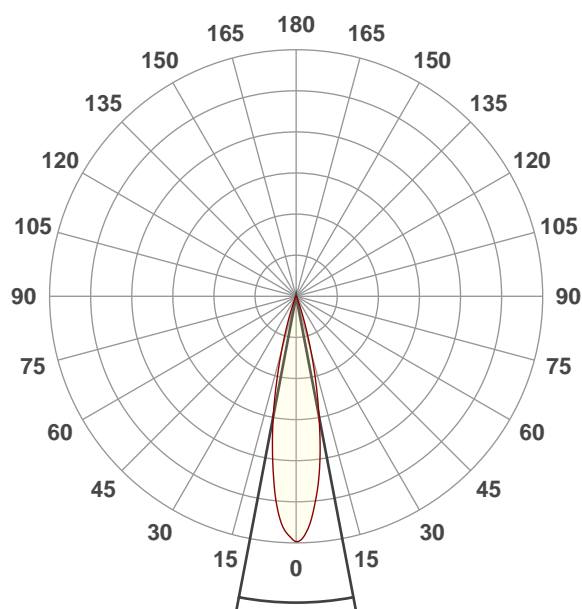
White

Operator:

Paolo Carvone

Date and time:

01/07/2020 09:29:06

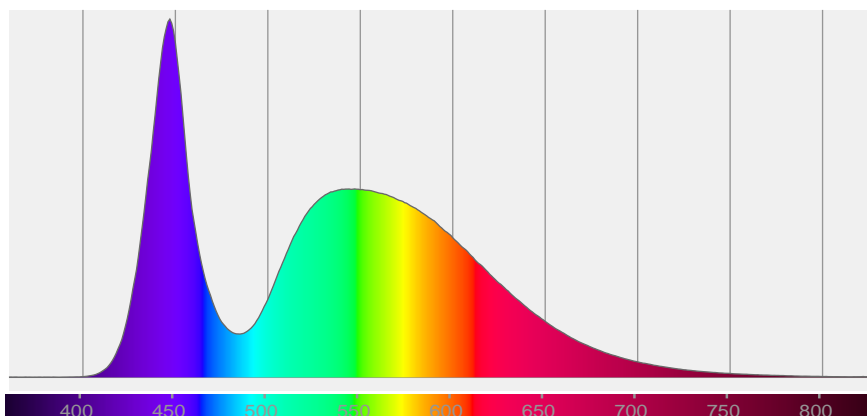


Beam angle 50%: 21,5°

Field angle 10%: 36,2°

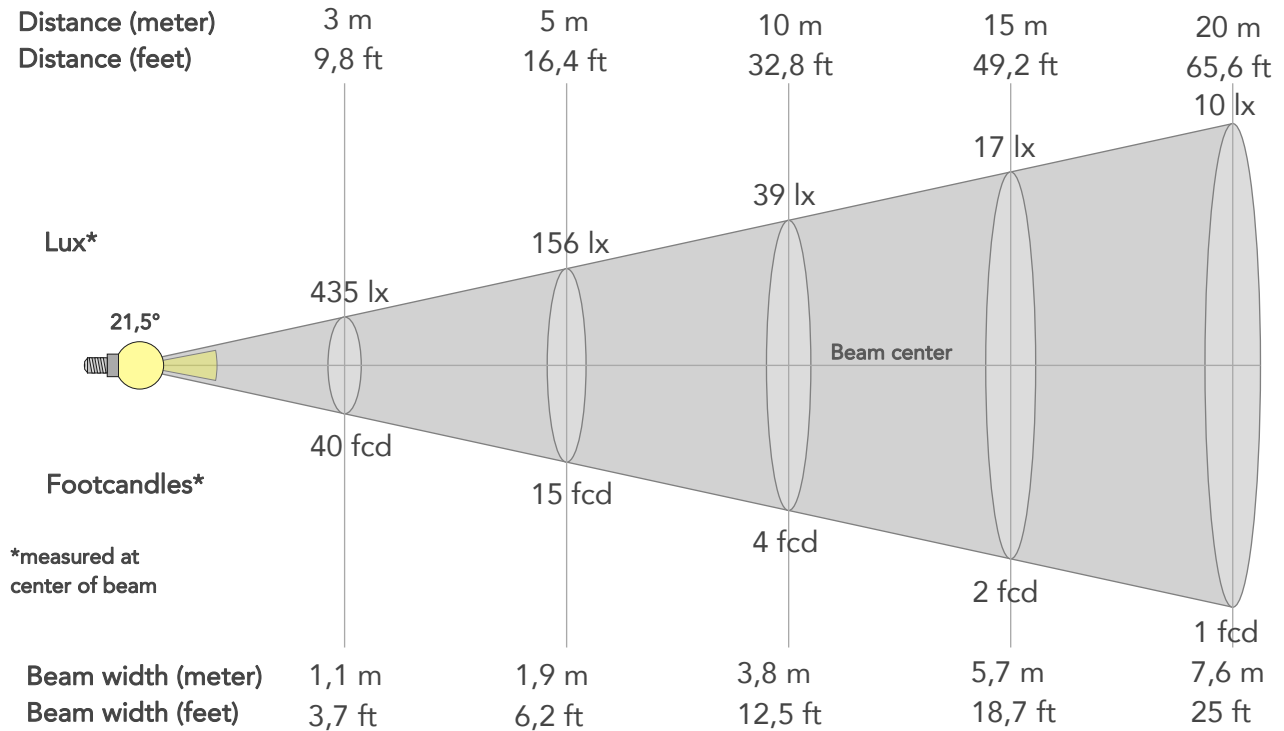
Cut off angle 2.5%: 45,8°

Spectra



BEAM DETAILS

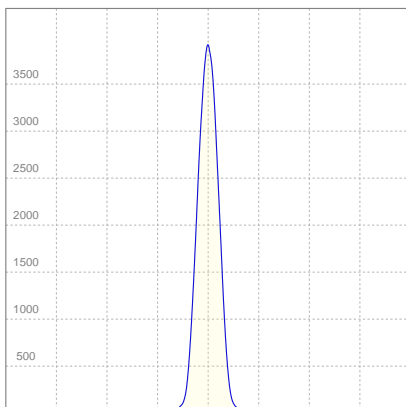
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21,5°	36,2°	45,8°	99,7%	98,3%



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	3911lx	978lx	435lx	244lx	156lx	70lx	39lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	363fcd	91fcd	40fcd	23fcd	15fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,8m	1,1m	1,5m	1,9m	2,9m	3,8m	5,7m	7,6m	9,5m	11,4m	15,2m	19m
Beam wid.	1,3ft	2,5ft	3,7ft	5ft	6,2ft	9,4ft	12,5ft	18,7ft	25ft	31,2ft	37,5ft	49,9ft	62,4ft

LINEAR DISTRIBUTION DIAGRAM

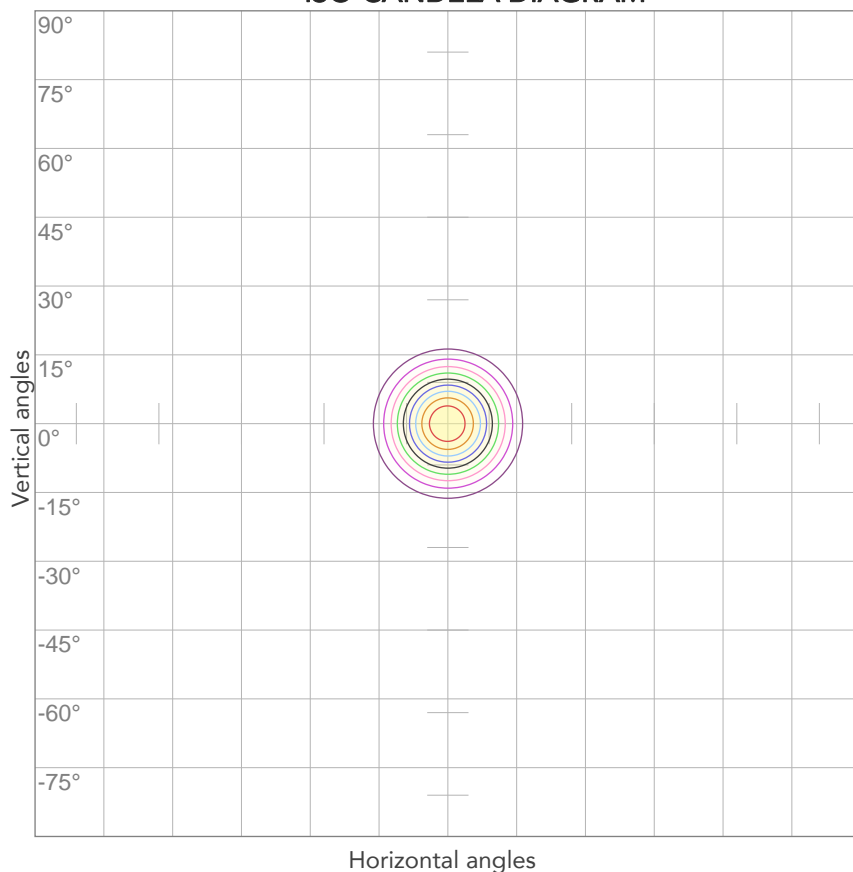


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,000A	-W	+Infinitolm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



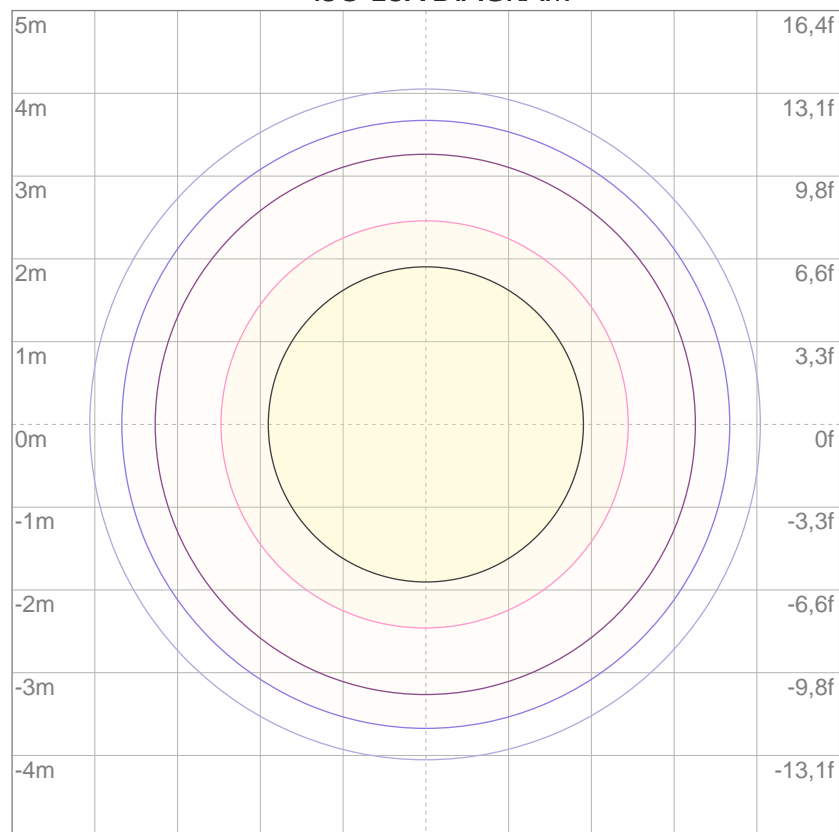
10%	391 cd
20%	782 cd
30%	1173 cd
40%	1564 cd
50%	1955 cd
60%	2346 cd
70%	2737 cd
80%	3129 cd

Conditions:

Number of c-planes: 2

Candela at center: 3911 cd

ISO LUX DIAGRAM



3%	1,17 lx
5%	1,96 lx
10%	3,91 lx
30%	11,7 lx
50%	19,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 39,1 lx

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



Total lumen output:

581 lm

Peak candela output:

1270 cd

PRODUCT NAME:

SMARTBATPLUS

MEASURAMENT CONDITIONS:

Beam angle:

Wide Beam

Target:

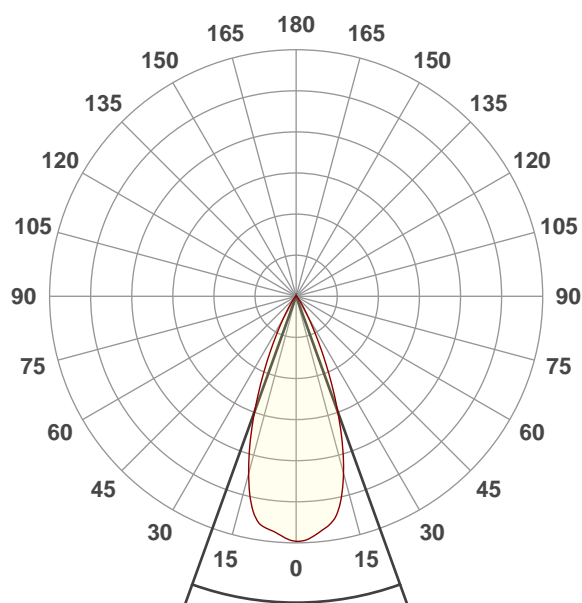
white

Operator:

Paolo Carvone

Date and time:

30/06/2020 12:48:01

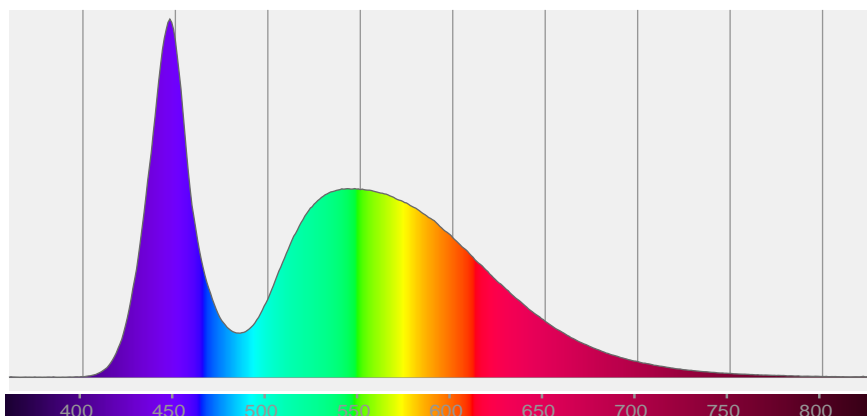


Beam angle 50%: 39,7°

Field angle 10%: 60,4°

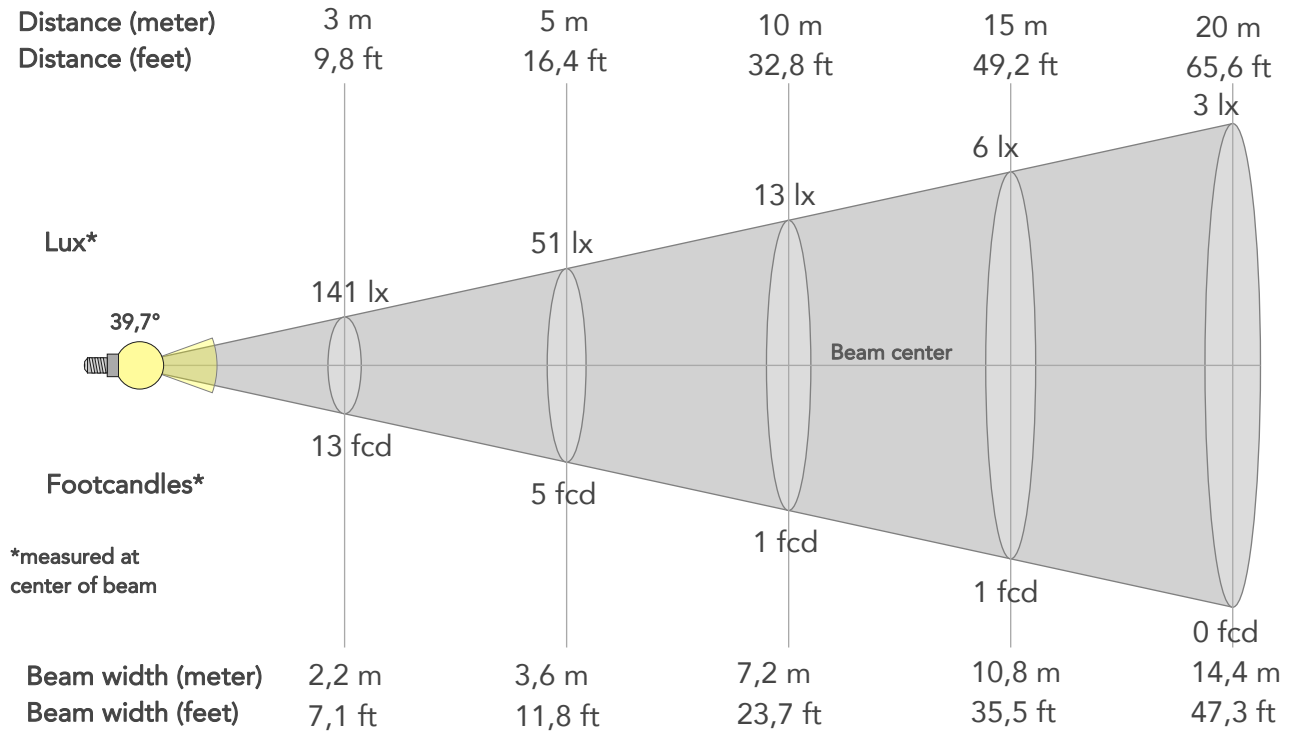
Cut off angle 2.5%: 77,1°

Spectra



BEAM DETAILS

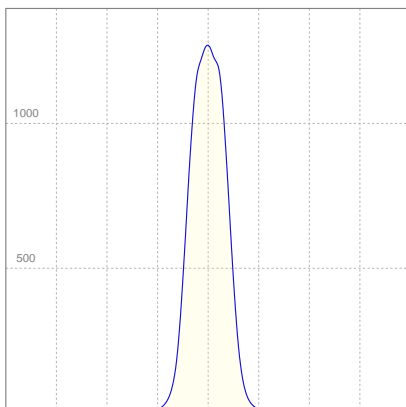
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,7°	60,4°	77,1°	99,2%	97,4%



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	1268lx	317lx	141lx	79lx	51lx	23lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	118fcd	29fcd	13fcd	7fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,2m	2,9m	3,6m	5,4m	7,2m	10,8m	14,4m	18m	21,6m	28,9m	36,1m
Beam wid.	2,4ft	4,8ft	7,1ft	9,4ft	11,8ft	17,7ft	23,7ft	35,5ft	47,3ft	59,1ft	71ft	94,6ft	118,3ft

LINEAR DISTRIBUTION DIAGRAM

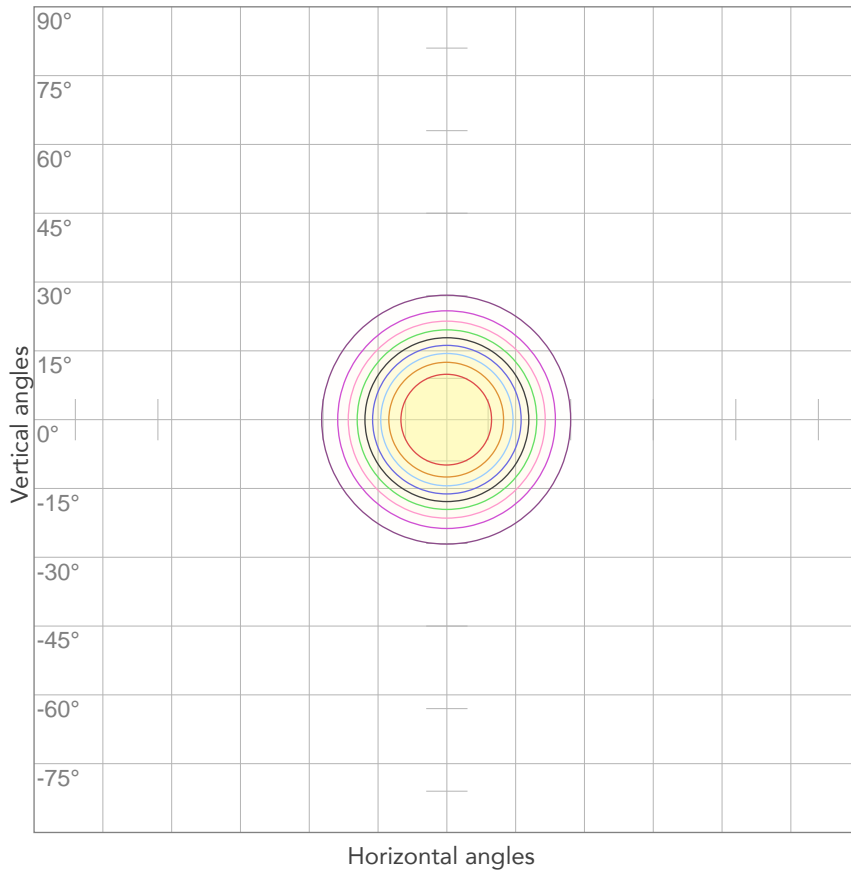


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,000A	-W	+InfinitoIm/W

Power FC
Non un numero reale

ISO CANDELA DIAGRAM



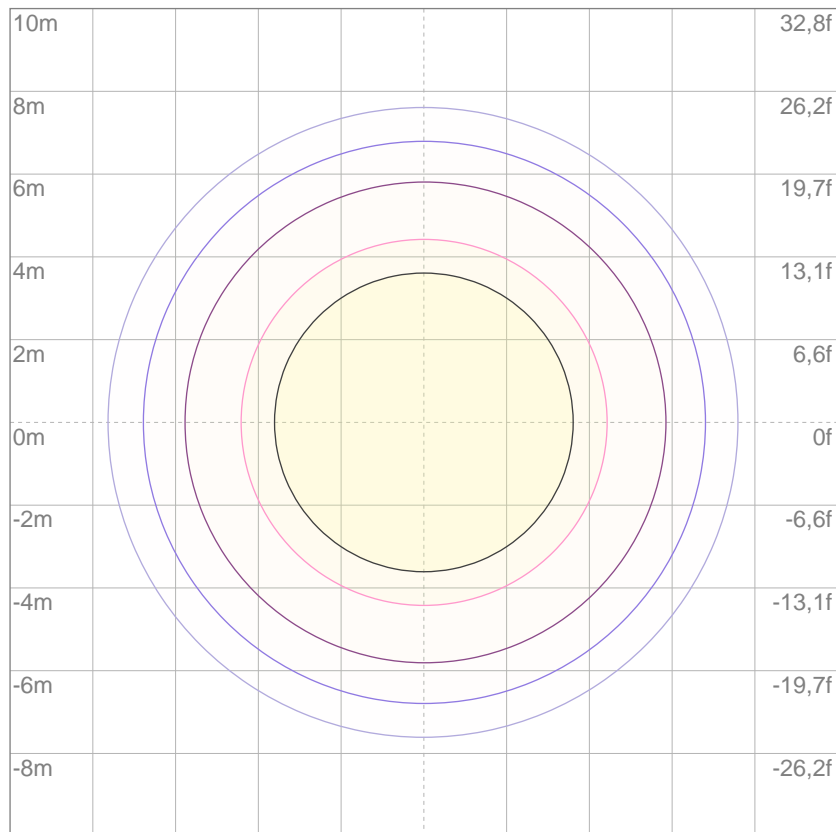
10%	127 cd
20%	254 cd
30%	380 cd
40%	507 cd
50%	634 cd
60%	761 cd
70%	888 cd
80%	1015 cd

Conditions:

Number of c-planes: 2

Candela at center: 1268 cd

ISO LUX DIAGRAM



3%	0,380 lx
5%	0,634 lx
10%	1,27 lx
30%	3,80 lx
50%	6,34 lx

Conditions:

Number of c-planes: 2

Lux at center: 12,7 lx

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