

# Photometric Test Report



## ARCPOINT1FC

10 W RGBW / FC outdoor IP66 accent light  
with ground spike (included)

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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:

353 lm

Peak candela output:

8318 cd

**PRODUCT NAME:**

ARCPOINT1 FC

**MEASUREMENT CONDITIONS:**

Beam angle:

Narrow

Target:

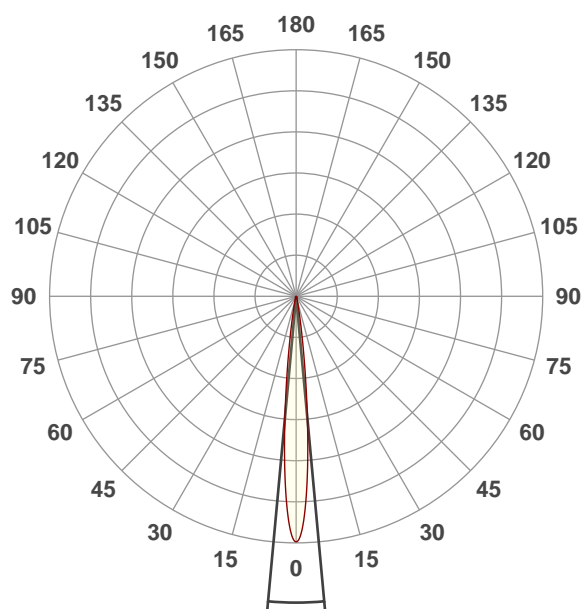
Full on

Operator:

Paolo Carvone

Date and time:

09/10/2020 11:31:33

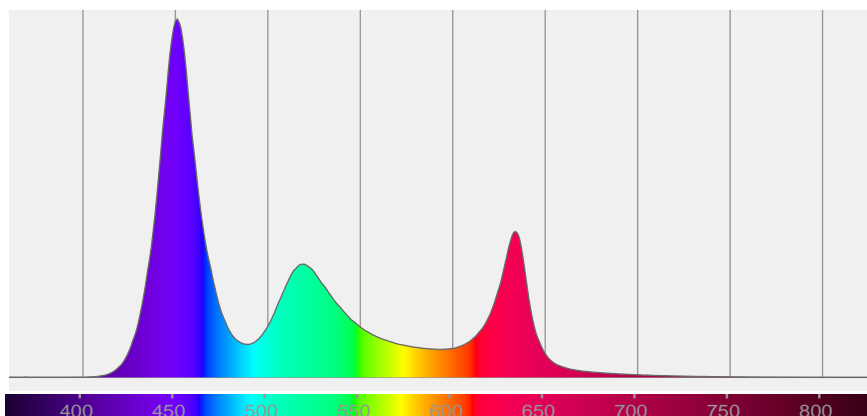


Beam angle 50%: 10,5°

Field angle 10%: 19,3°

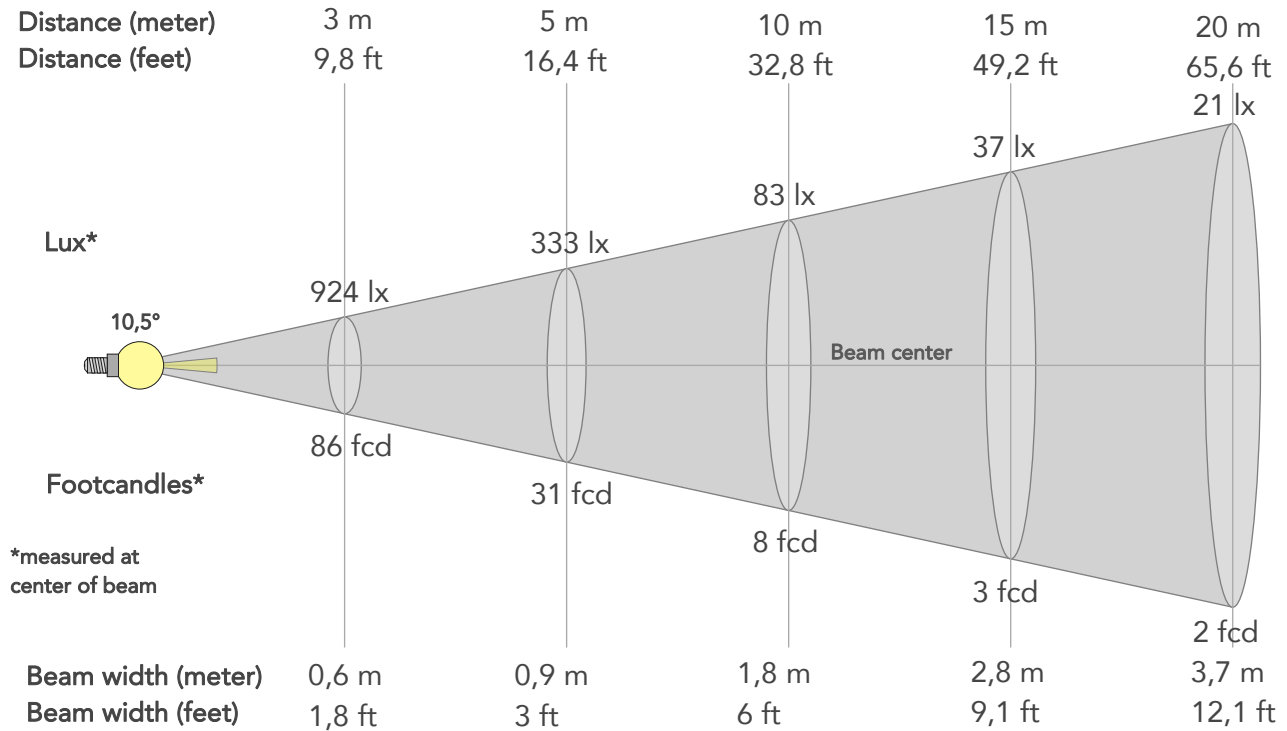
Cut off angle 2.5%: 27,4°

**Spectra**



## BEAM DETAILS

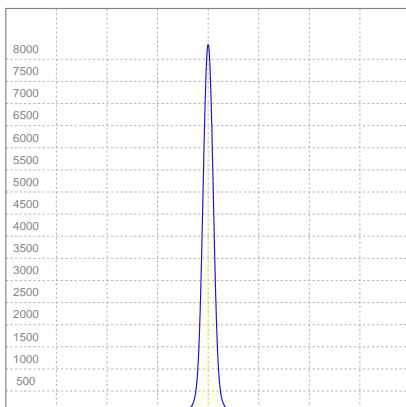
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,5°	19,3°	27,4°	100,0%	100,0%



### 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	8318lx	2079lx	924lx	520lx	333lx	148lx	83lx	37lx	21lx	13lx	9lx	5lx	3lx
Footcand.	773fcd	193fcd	86fcd	48fcd	31fcd	14fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,2m	0,4m	0,6m	0,7m	0,9m	1,4m	1,8m	2,8m	3,7m	4,6m	5,5m	7,4m	9,2m
Beam wid.	0,6ft	1,2ft	1,8ft	2,4ft	3ft	4,5ft	6ft	9,1ft	12,1ft	15,1ft	18,1ft	24,2ft	30,2ft

### LINEAR DISTRIBUTION DIAGRAM

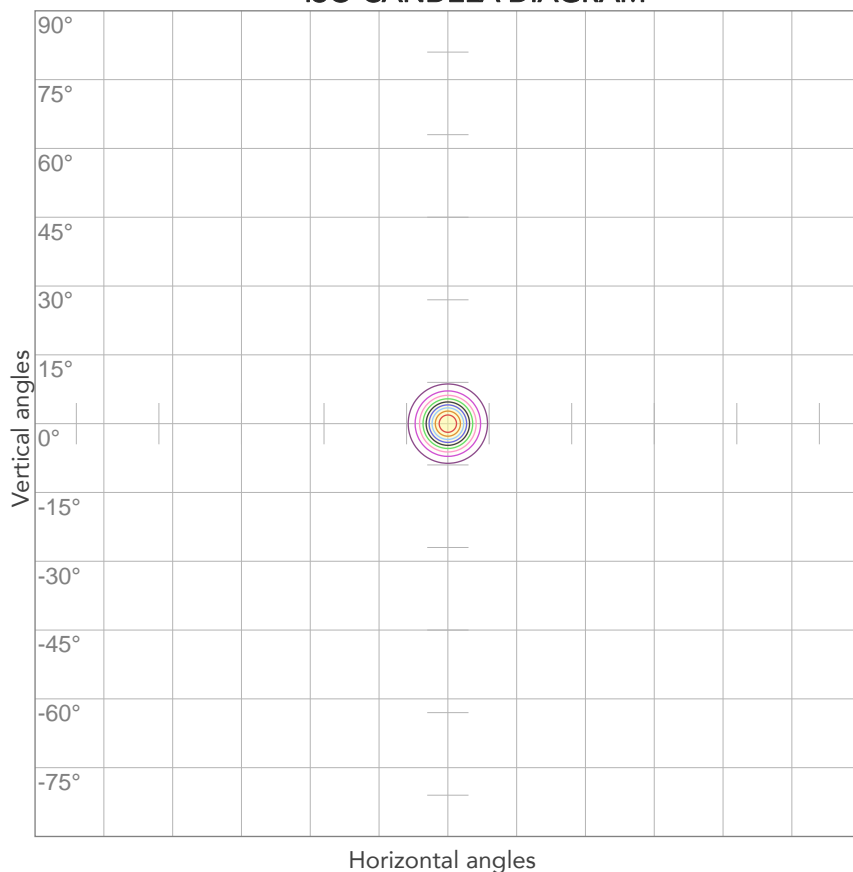


### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Efficiency
230V	0,115A	12,6W	28lm/W
Power FC			
0,48			

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



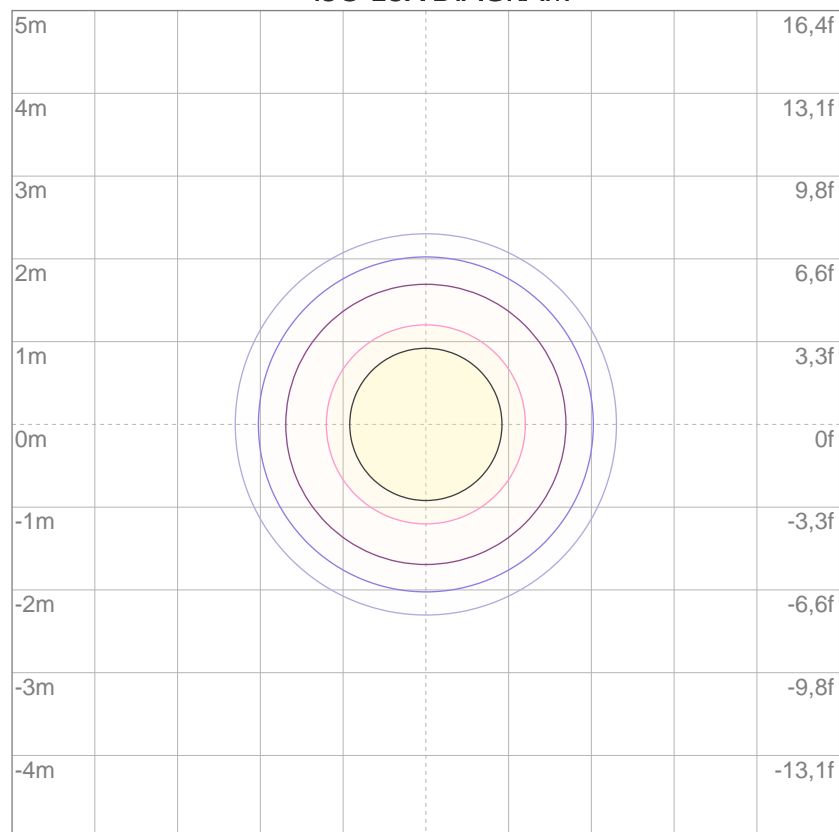
10%	832 cd
20%	1664 cd
30%	2495 cd
40%	3327 cd
50%	4159 cd
60%	4991 cd
70%	5822 cd
80%	6654 cd

### Conditions:

Number of c-planes: 2

Candela at center: 8318 cd

## ISO LUX DIAGRAM



3%	2,50 lx
5%	4,16 lx
10%	8,32 lx
30%	25,0 lx
50%	41,6 lx

### Conditions:

Number of c-planes: 2

Lux at center: 83,2 lx

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



Total lumen output:

50,6 lm

Peak candela output:

1356 cd

**PRODUCT NAME:**

ARCPOINT1 FC

**MEASUREMENT CONDITIONS:**

Beam angle:

Narrow

Target:

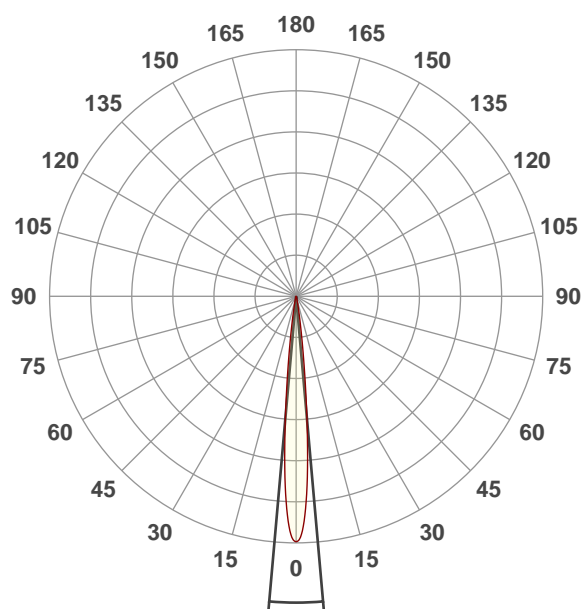
Red

Operator:

Paolo Carvone

Date and time:

09/10/2020 11:33:51

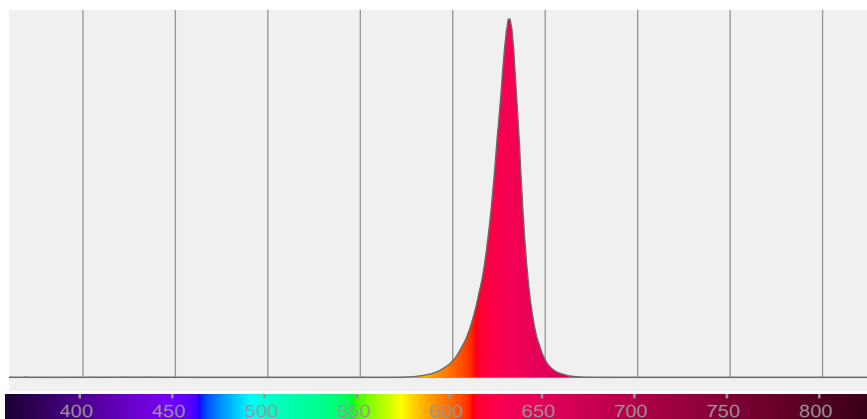


Beam angle 50%: 10,1°

Field angle 10%: 17,9°

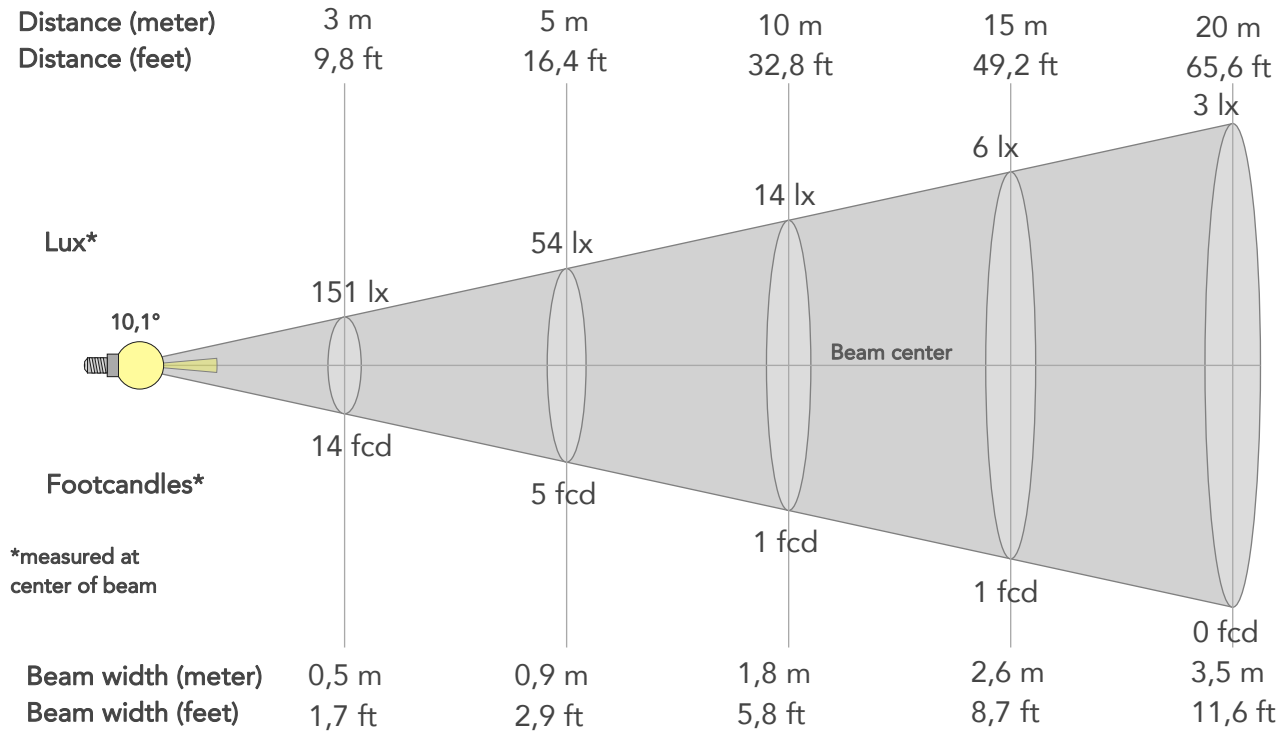
Cut off angle 2.5%: 24,5°

**Spectra**



## BEAM DETAILS

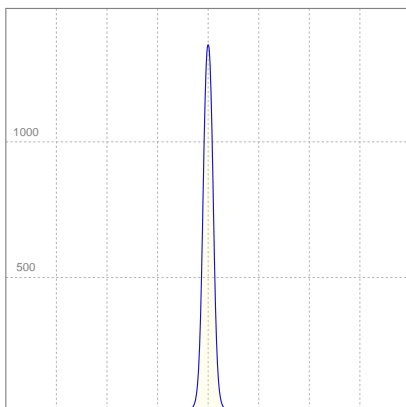
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,1°	17,9°	24,5°	100,0%	100,0%



### 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	1356lx	339lx	151lx	85lx	54lx	24lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	126fcd	31fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,2m	0,4m	0,5m	0,7m	0,9m	1,3m	1,8m	2,6m	3,5m	4,4m	5,3m	7,1m	8,8m
Beam wid.	0,6ft	1,2ft	1,7ft	2,3ft	2,9ft	4,3ft	5,8ft	8,7ft	11,6ft	14,5ft	17,4ft	23,1ft	28,9ft

### LINEAR DISTRIBUTION DIAGRAM



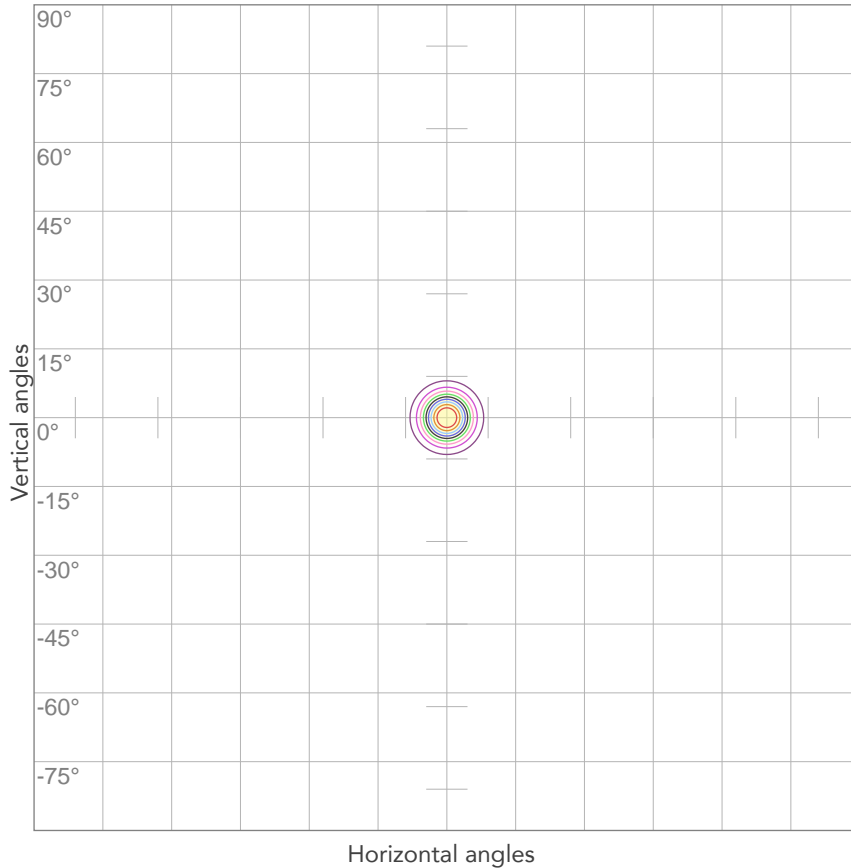
### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
230V	0,029A	2,6W	19lm/W
Power FC			
0,39			



# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



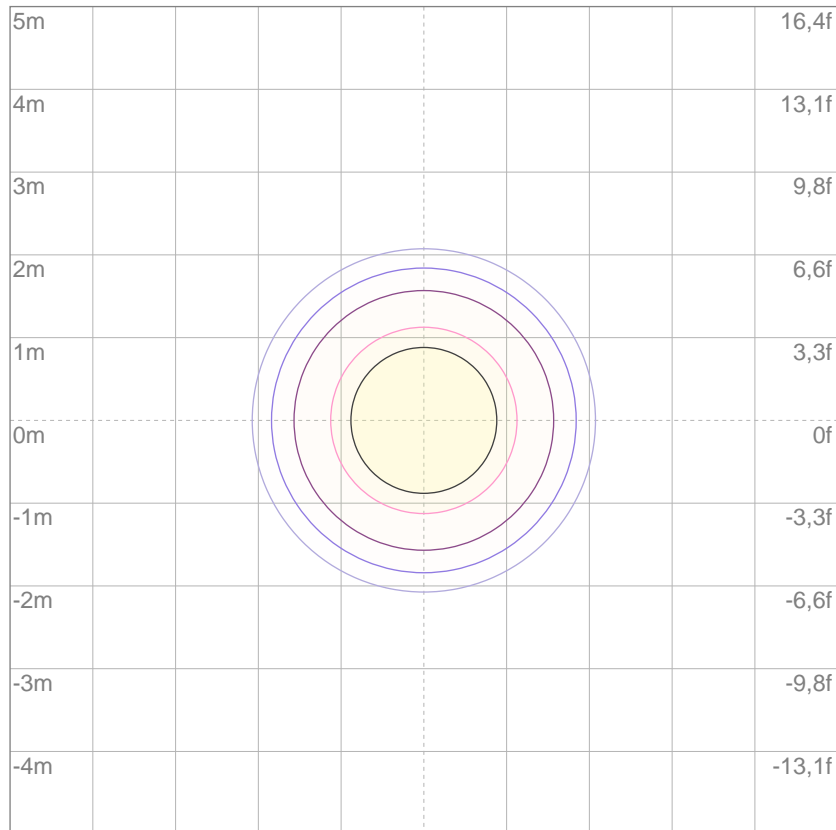
10%	136 cd
20%	271 cd
30%	407 cd
40%	542 cd
50%	678 cd
60%	814 cd
70%	949 cd
80%	1085 cd

### Conditions:

Number of c-planes: 2

Candela at center: 1356 cd

## ISO LUX DIAGRAM



3%	0,407 lx
5%	0,678 lx
10%	1,36 lx
30%	4,07 lx
50%	6,78 lx

### Conditions:

Number of c-planes: 2

Lux at center: 13,6 lx

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



Total lumen output:

151 lm

Peak candela output:

2264 cd

**PRODUCT NAME:**

ARCPOINT1 FC

**MEASUREMENT CONDITIONS:**

Beam angle:

Narrow

Target:

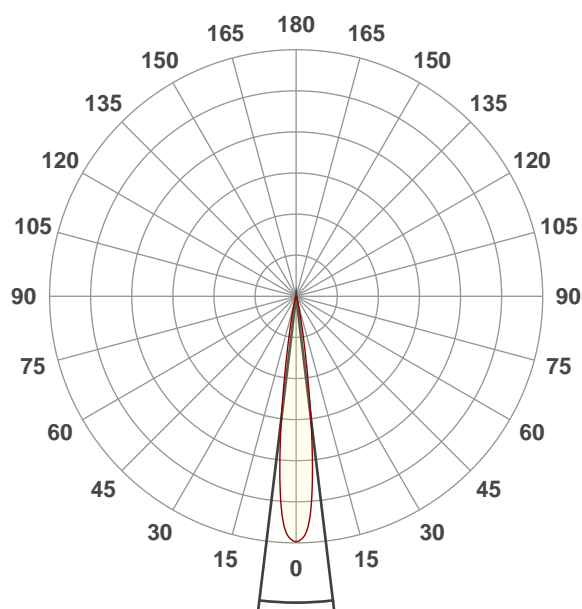
Green

Operator:

Paolo Carvone

Date and time:

09/10/2020 11:36:54

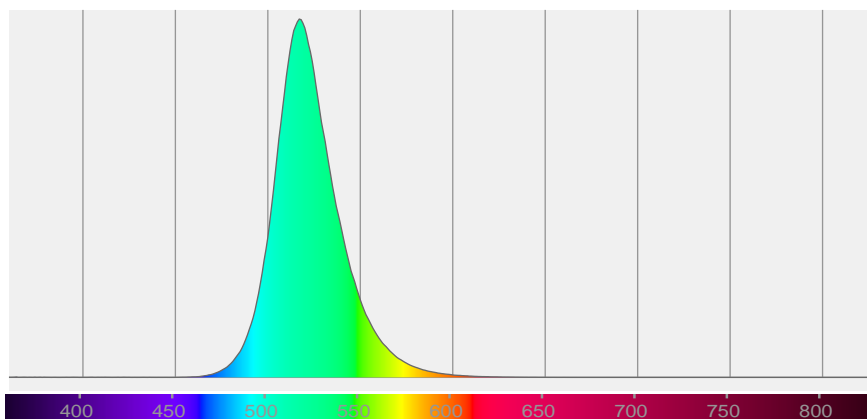


Beam angle 50%: 13,8°

Field angle 10%: 23,1°

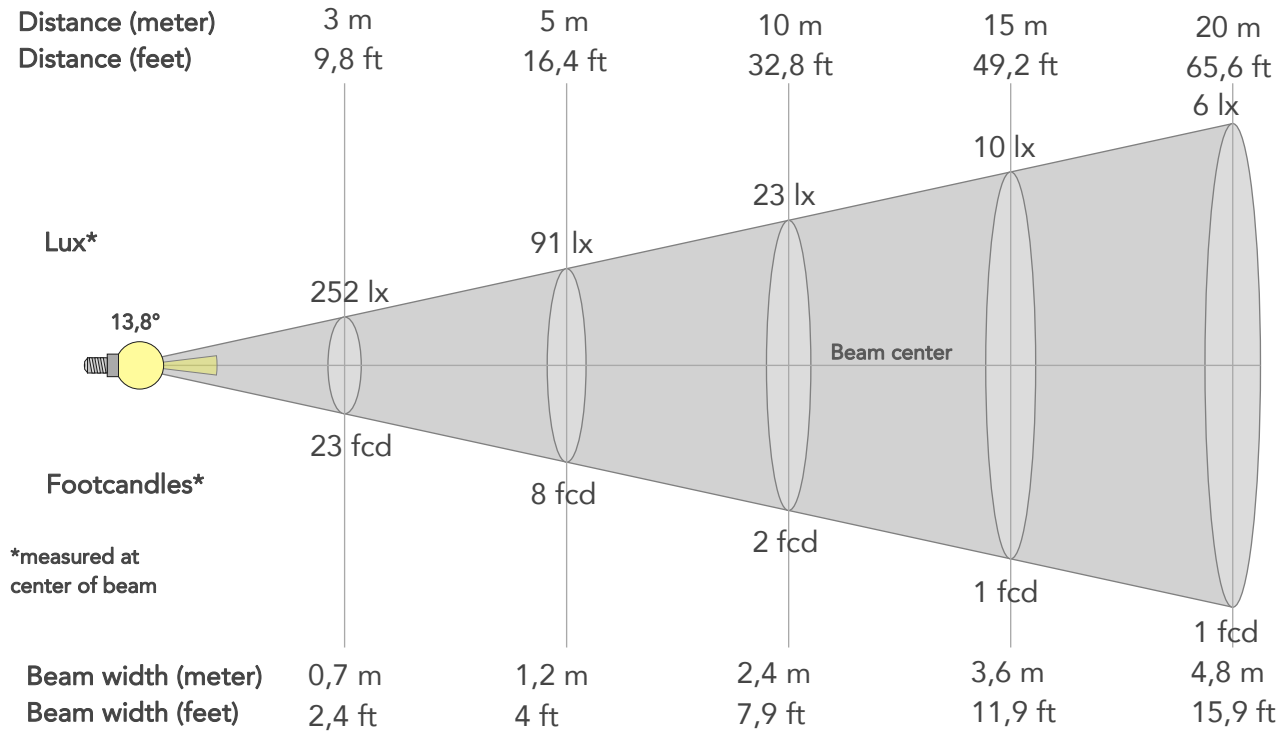
Cut off angle 2.5%: 32,9°

**Spectra**



## BEAM DETAILS

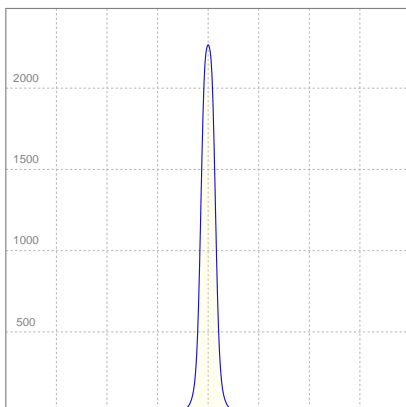
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
13,8°	23,1°	32,9°	99,9%	99,3%



### 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	2264lx	566lx	252lx	142lx	91lx	40lx	23lx	10lx	6lx	4lx	3lx	1lx	1lx
Footcand.	210fcd	53fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,2m	0,5m	0,7m	1m	1,2m	1,8m	2,4m	3,6m	4,8m	6m	7,3m	9,7m	12,1m
Beam wid.	0,8ft	1,6ft	2,4ft	3,2ft	4ft	6ft	7,9ft	11,9ft	15,9ft	19,8ft	23,8ft	31,7ft	39,7ft

### LINEAR DISTRIBUTION DIAGRAM

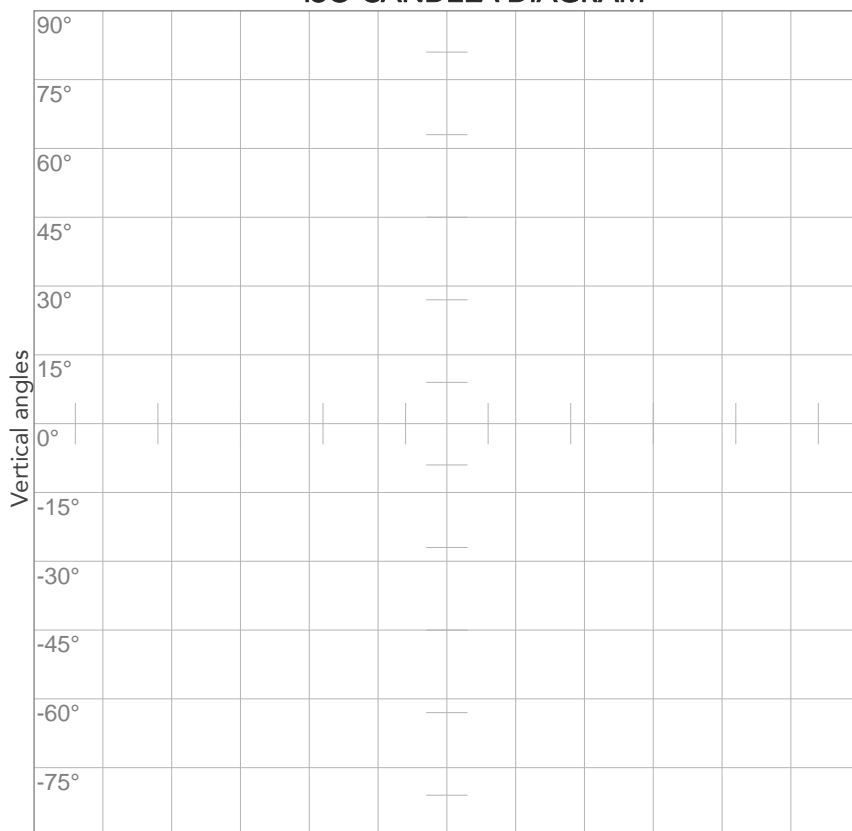


### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
230V	0,045A	4,5W	33lm/W
Power FC			
0,44			

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



10%	226 cd
20%	453 cd
30%	679 cd
40%	906 cd
50%	1132 cd
60%	1358 cd
70%	1585 cd
80%	1811 cd

### Conditions:

Number of c-planes: 2

Candela at center: 2264 cd

## ISO LUX DIAGRAM



3%	0,679 lx
5%	1,13 lx
10%	2,26 lx
30%	6,79 lx
50%	11,3 lx

### Conditions:

Number of c-planes: 2

Lux at center: 22,6 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

27,4 lm

Peak candela output:

568 cd

**PRODUCT NAME:**

ARCPOINT1 FC

**MEASURAMENT CONDITIONS:**

Beam angle:

Narrow

Target:

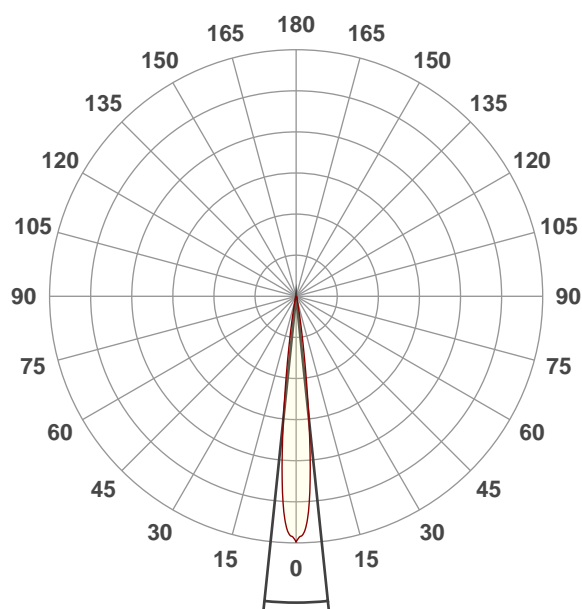
>Blue

Operator:

Paolo Carvone

Date and time:

09/10/2020 11:39:59

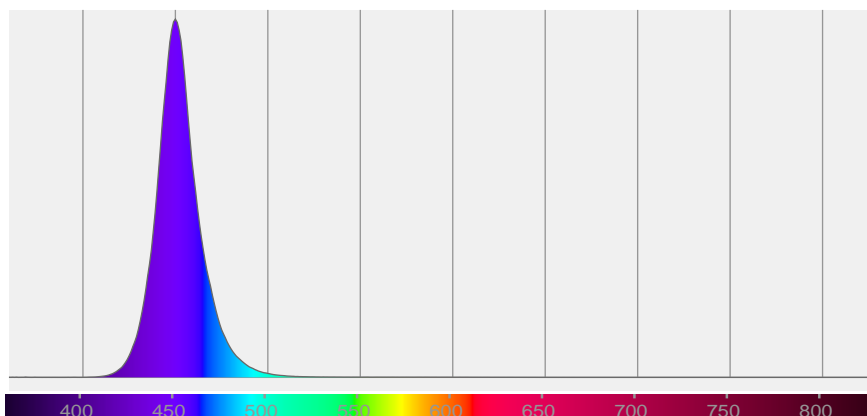


Beam angle 50%: 11,9°

Field angle 10%: 19,6°

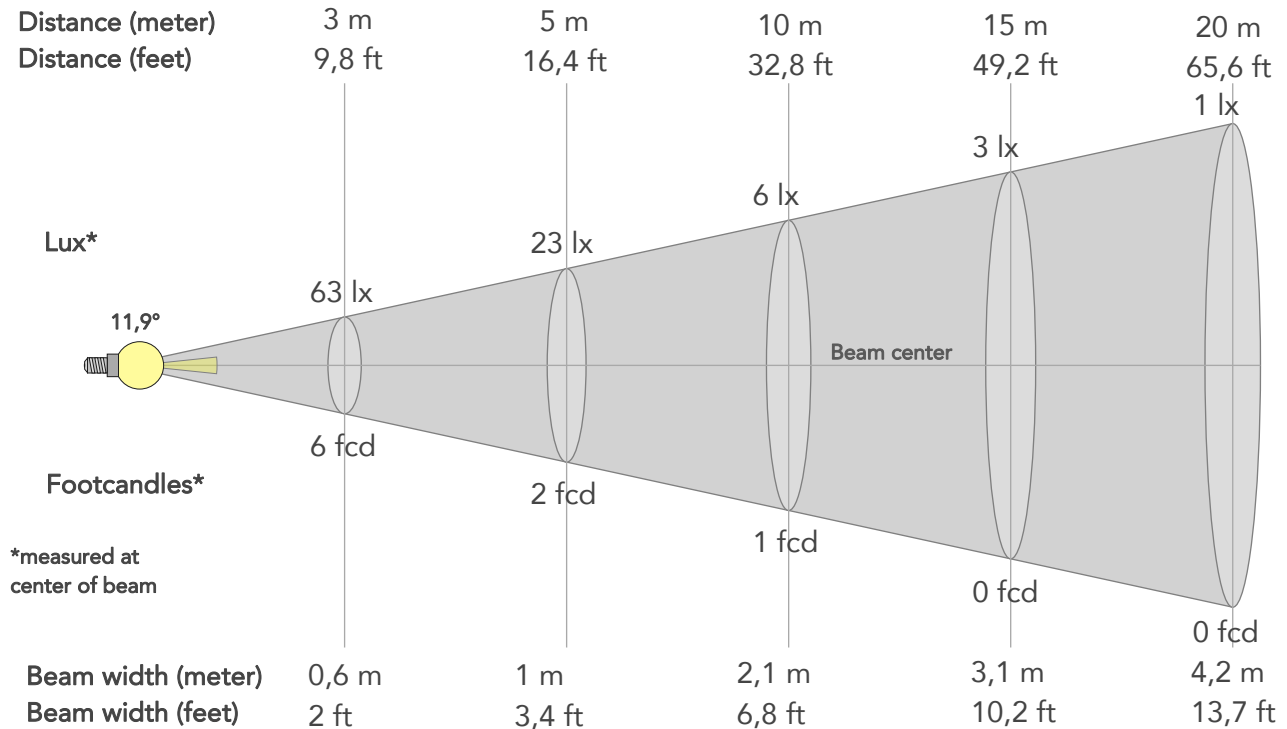
Cut off angle 2.5%: 26,8°

**Spectra**



## BEAM DETAILS

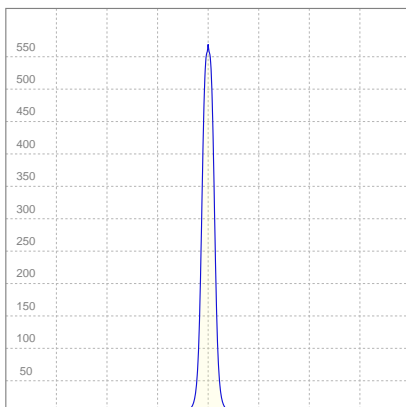
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,9°	19,6°	26,8°	99,9%	99,5%



### 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	568lx	142lx	63lx	35lx	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.	0,2m	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	13,7ft	17,1ft	20,5ft	27,3ft	34,1ft

### LINEAR DISTRIBUTION DIAGRAM

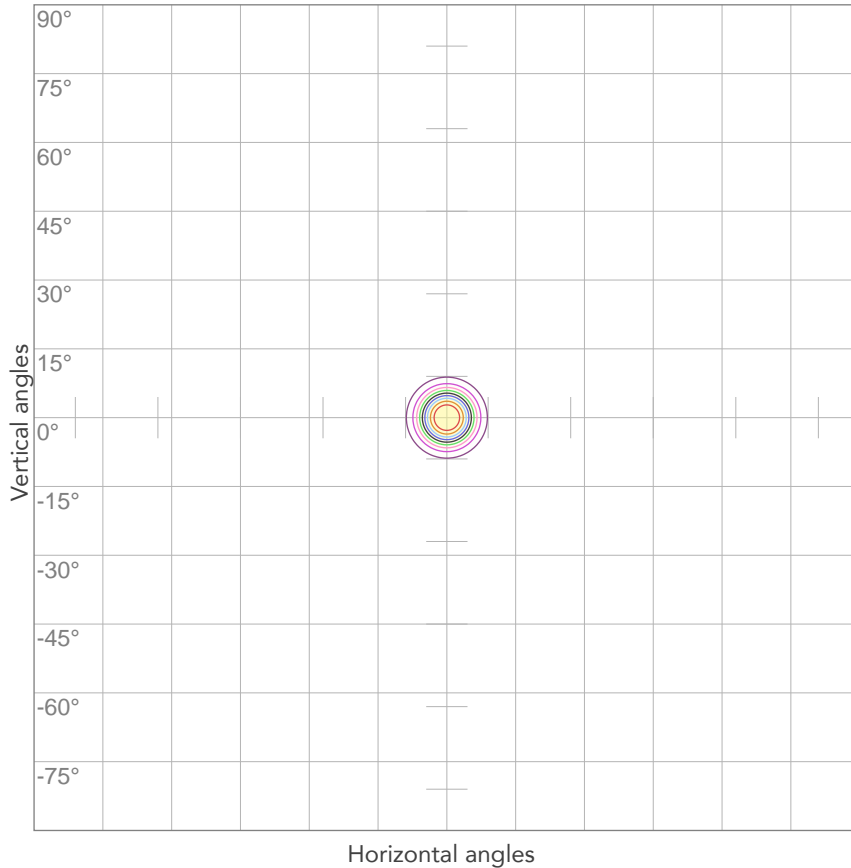


### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
229V	0,044A	4,4W	6lm/W
Power FC			
0,44			

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



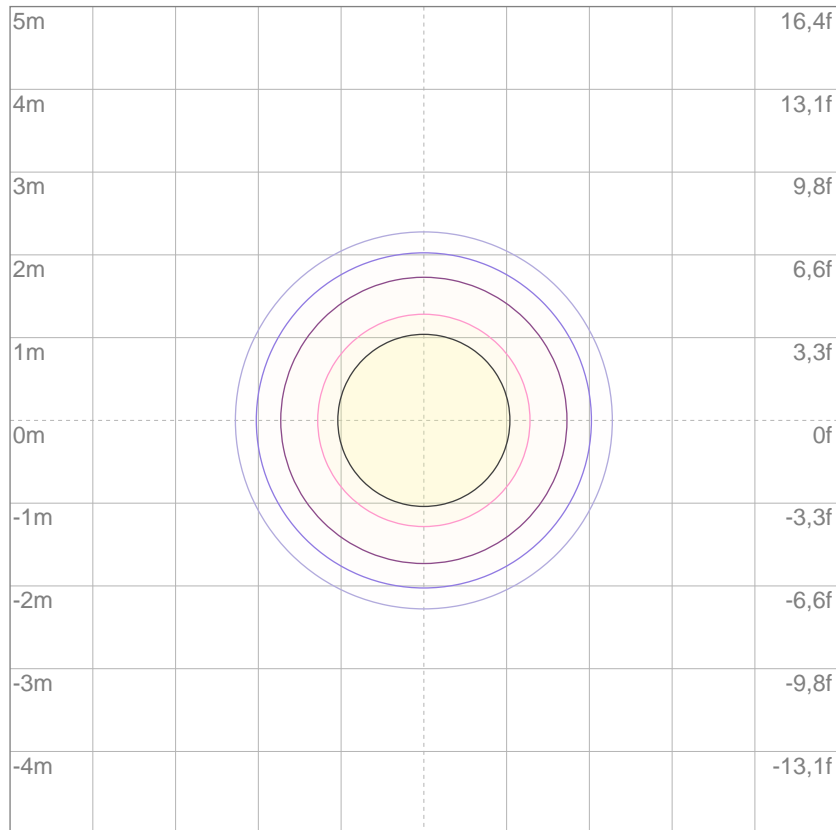
10%	57 cd
20%	114 cd
30%	170 cd
40%	227 cd
50%	284 cd
60%	341 cd
70%	397 cd
80%	454 cd

### Conditions:

Number of c-planes: 2

Candela at center: 568 cd

## ISO LUX DIAGRAM



3%	0,170 lx
5%	0,284 lx
10%	0,568 lx
30%	1,70 lx
50%	2,84 lx

### Conditions:

Number of c-planes: 2

Lux at center: 5,68 lx

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



Total lumen output:

149 lm

Peak candela output:

4521 cd

**PRODUCT NAME:**

ARCPOINT1 FC

**MEASUREMENT CONDITIONS:**

Beam angle:

Narrow

Target:

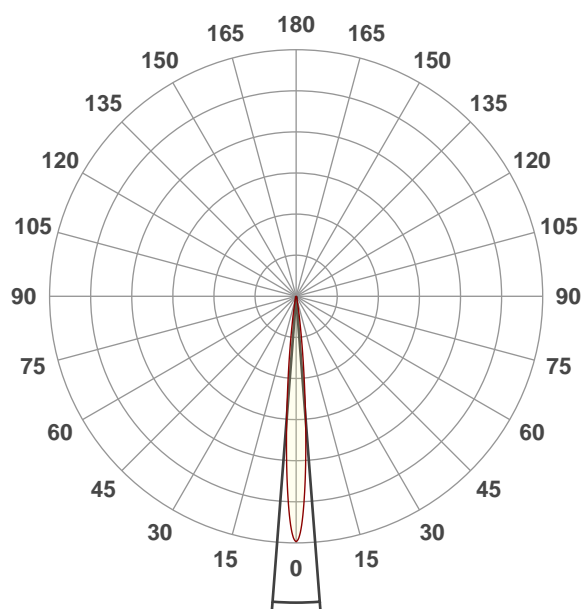
White

Operator:

Paolo Carvone

Date and time:

09/10/2020 11:42:20

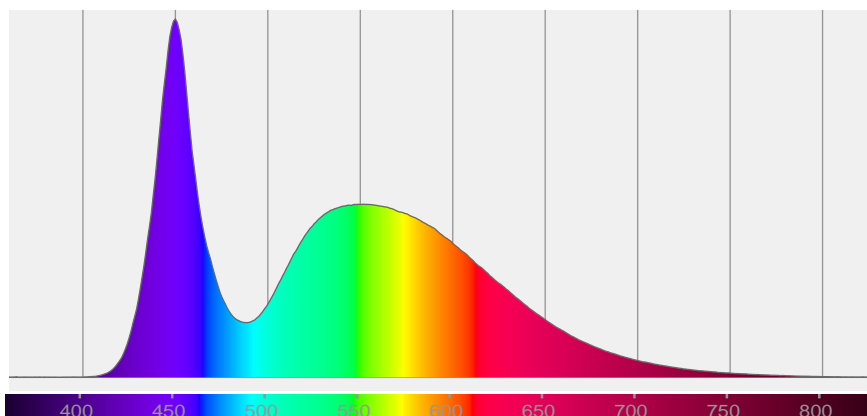


Beam angle 50%: 8,8°

Field angle 10%: 16,9°

Cut off angle 2.5%: 24,3°

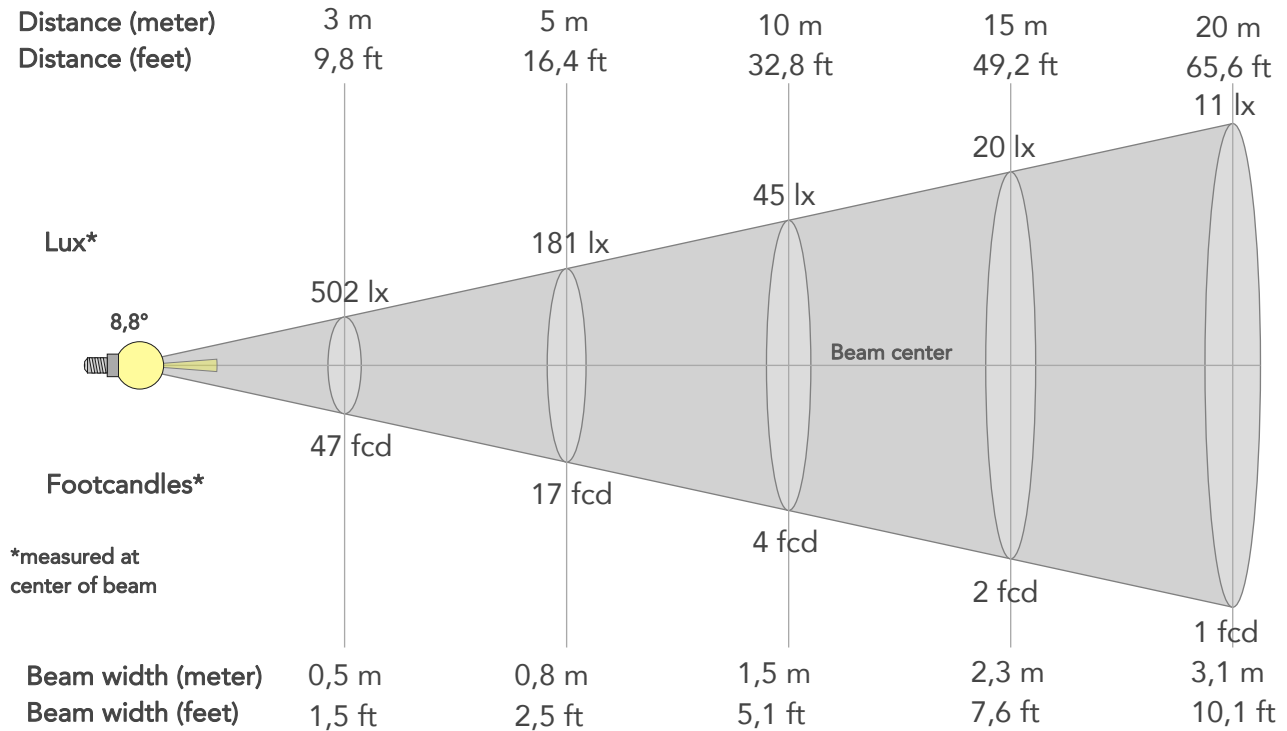
**Spectra**





## BEAM DETAILS

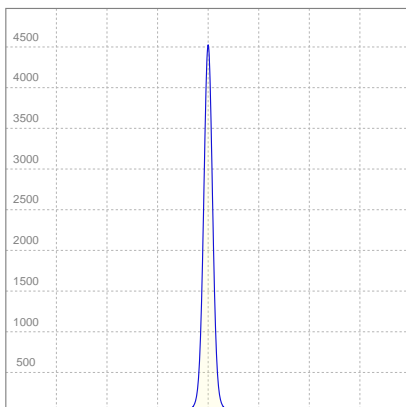
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
8,8°	16,9°	24,3°	100,0%	100,0%



### 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	4521lx	1130lx	502lx	283lx	181lx	80lx	45lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	420fcd	105fcd	47fcd	26fcd	17fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,2m	0,3m	0,5m	0,6m	0,8m	1,2m	1,5m	2,3m	3,1m	3,9m	4,6m	6,2m	7,7m
Beam wid.	0,5ft	1ft	1,5ft	2ft	2,5ft	3,8ft	5,1ft	7,6ft	10,1ft	12,7ft	15,2ft	20,3ft	25,3ft

### LINEAR DISTRIBUTION DIAGRAM



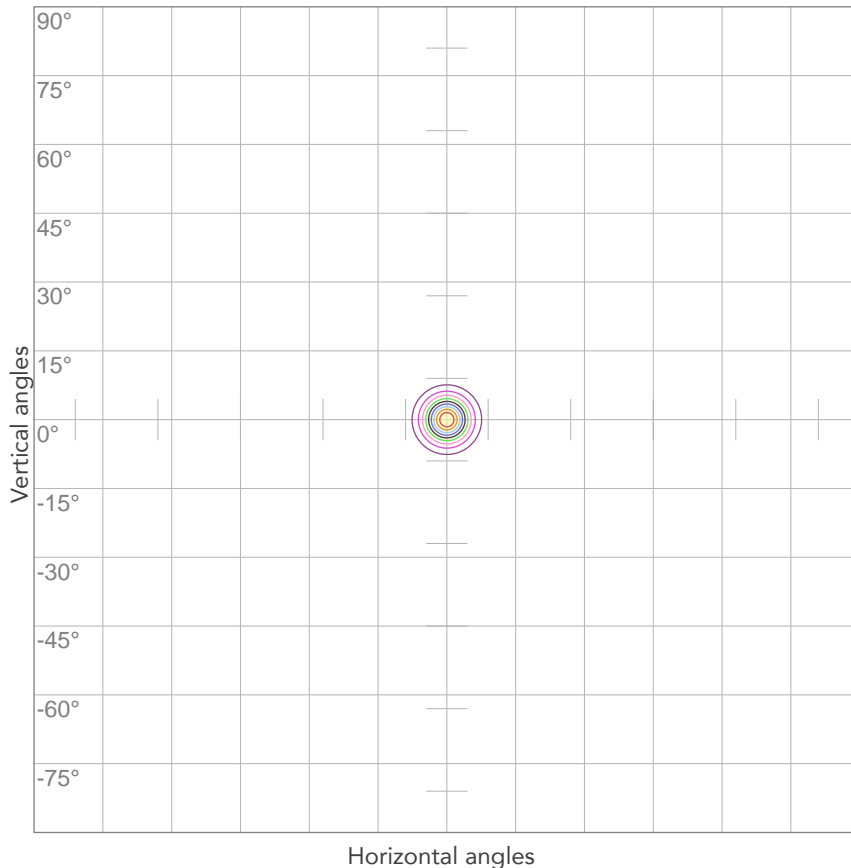
### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
229V	0,045A	4,5W	33lm/W

Power FC
0,44

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



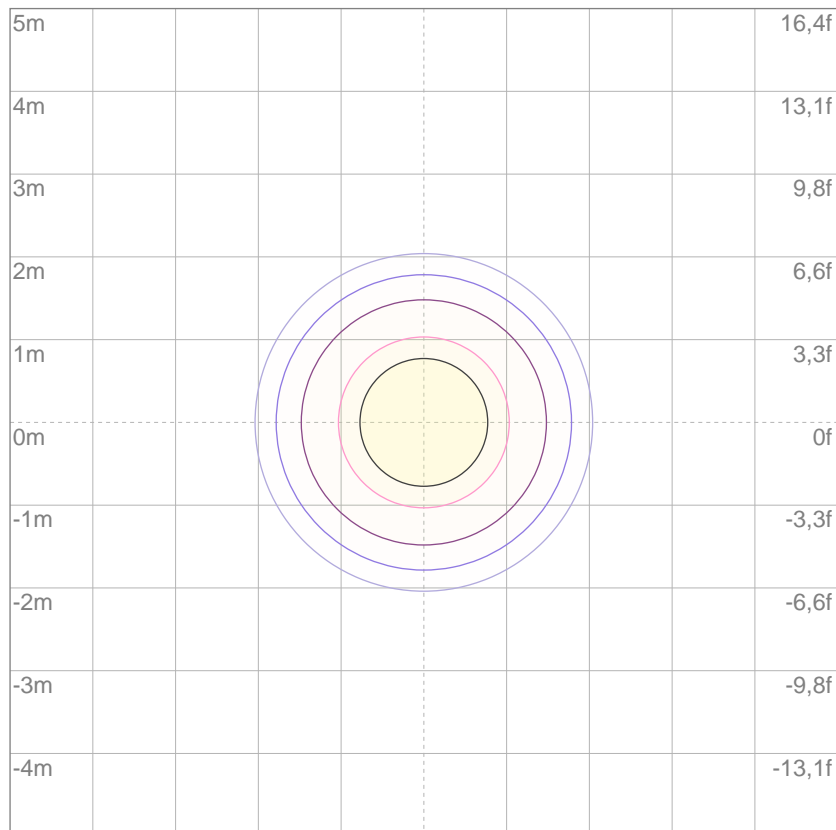
10%	452 cd
20%	904 cd
30%	1356 cd
40%	1808 cd
50%	2261 cd
60%	2713 cd
70%	3165 cd
80%	3617 cd

### Conditions:

Number of c-planes: 2

Candela at center: 4521 cd

## ISO LUX DIAGRAM



3%	1,36 lx
5%	2,26 lx
10%	4,52 lx
30%	13,6 lx
50%	22,6 lx

### Conditions:

Number of c-planes: 2

Lux at center: 45,2 lx

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