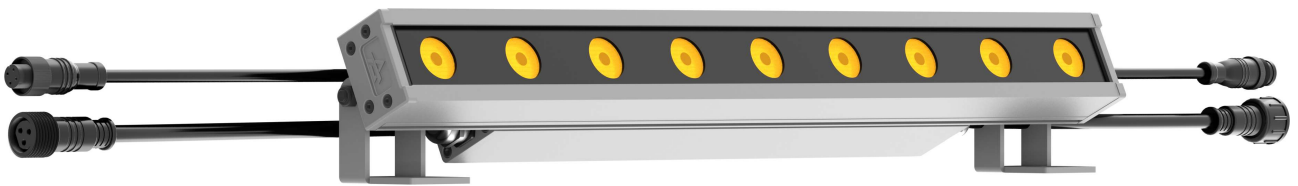


Photometric Test Report



ARCSHINES9FC

9 x 2 W IP66 RGB + Warm White
architectural linear bar, 50 cm

CONTENTS

Table of contents	2
Testing process	4
Color preset Full on	
Beam angle 15°	5
Beam angle 15°+20° Filter	8
Beam angle 15°+60° Filter	11
Beam angle 15°+10°x60° Filter	14
Beam angle 15°+30°x60° Filter	17
Color preset Red	
Beam angle 15°	20
Beam angle 15°+20° Filter	23
Beam angle 15°+60° Filter	26
Beam angle 15°+10°x60° Filter	29
Beam angle 15°+30°x60° Filter	32
Color preset Green	
Beam angle 15°	35
Beam angle 15°+20° Filter	38
Beam angle 15°+60° Filter	41
Beam angle 15°+10°x60° Filter	44
Beam angle 15°+30°x60° Filter	47
Color preset Blue	
Beam angle 15°	50
Beam angle 15°+20° Filter	53
Beam angle 15°+60° Filter	56
Beam angle 15°+10°x60° Filter	59
Beam angle 15°+30°x60° Filter	62

Color preset White

Beam angle 15°	65
Beam angle 15°+20° Filter	70
Beam angle 15°+60° Filter	75
Beam angle 15°+10°x60° Filter	80
Beam angle 15°+30°x60° Filter	85

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.

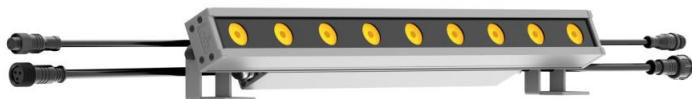
Additionally, the fixtures are rechecked using various hand-held instruments like Sekonic C-700 and Gossen Mavospec Base, this is done to ensure, that the data in the photometric report are as accurate as possible.

Total lumen output:

655 lm

Peak candela output:

3858 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15°

Target:

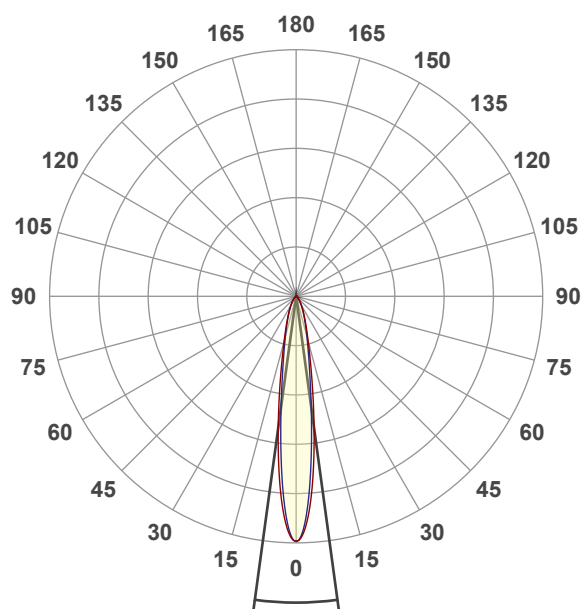
Full on

Operator:

Paolo Carvone

Date and time:

08/07/2022 15:51:54

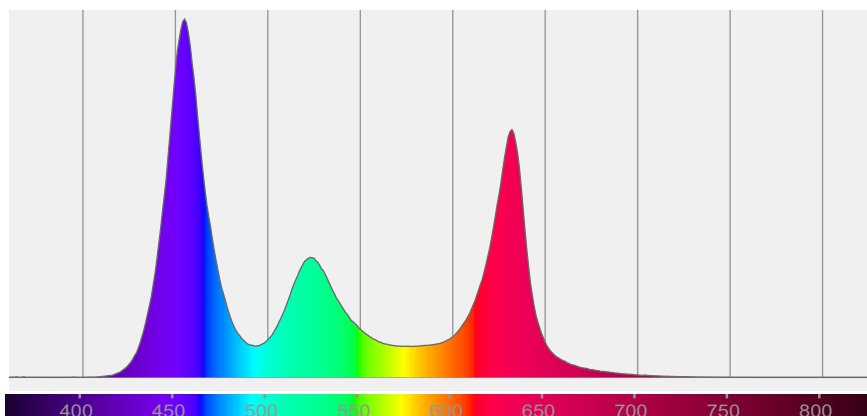


Beam angle 50%: 15,5°

Field angle 10%: 41,1°

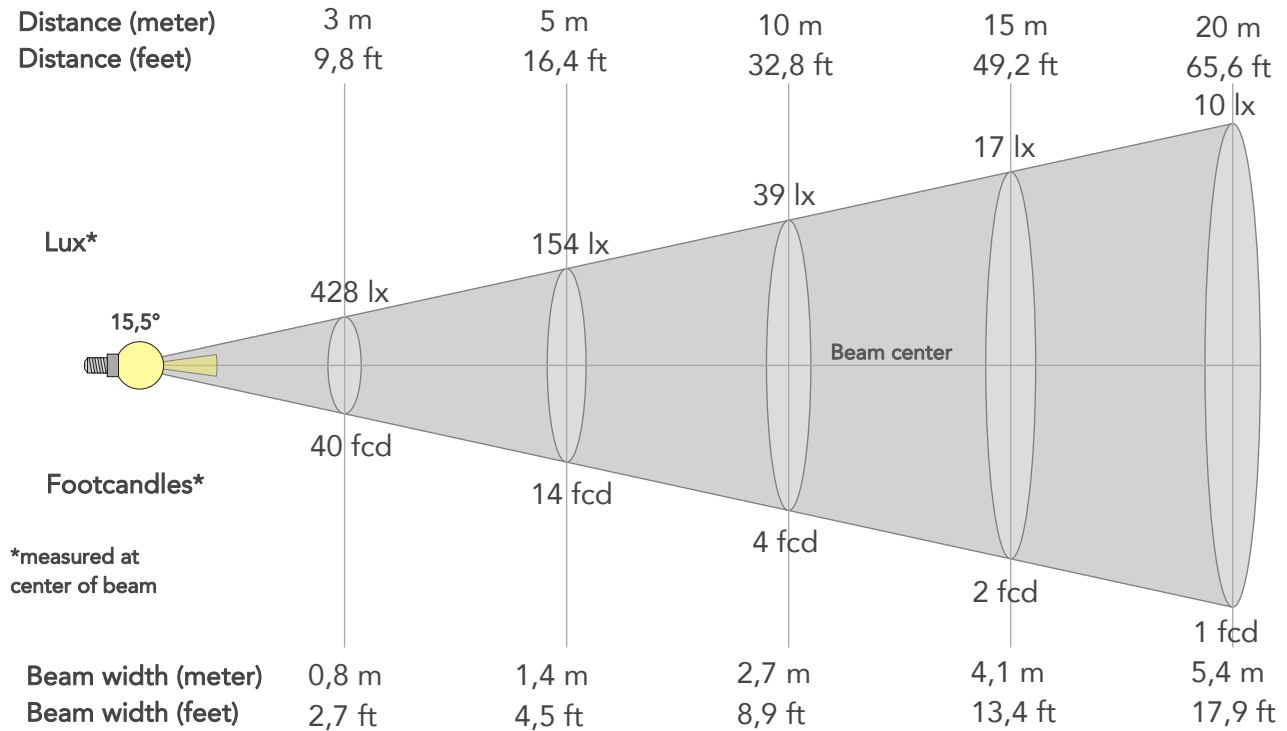
Cut off angle 2.5%: 72,3°

Spectra



BEAM DETAILS

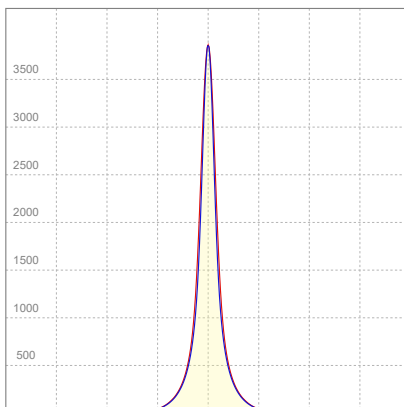
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,5°	41,1°	72,3°	99,6%	95,5%



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	3853lx	963lx	428lx	241lx	154lx	68lx	39lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	358fcd	89fcd	40fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,2m	10,9m	13,6m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	8,9ft	13,4ft	17,9ft	22,3ft	26,8ft	35,7ft	44,6ft

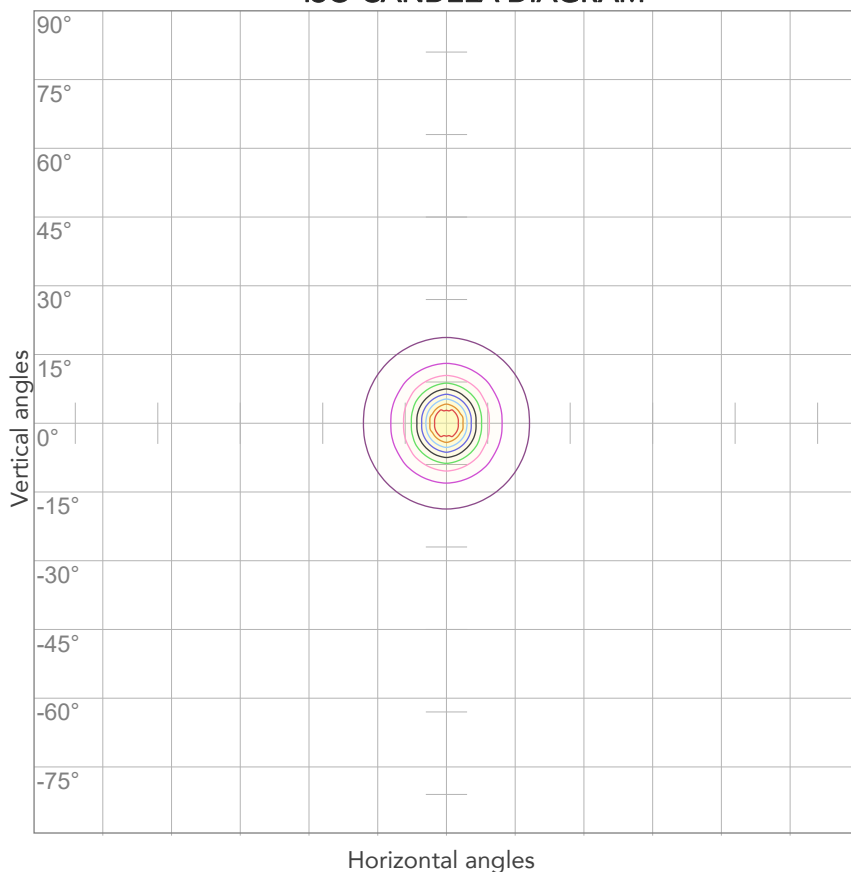
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,112A	21,8W	30lm/W
Power FC			
0,86			

ISO CANDELA DIAGRAM



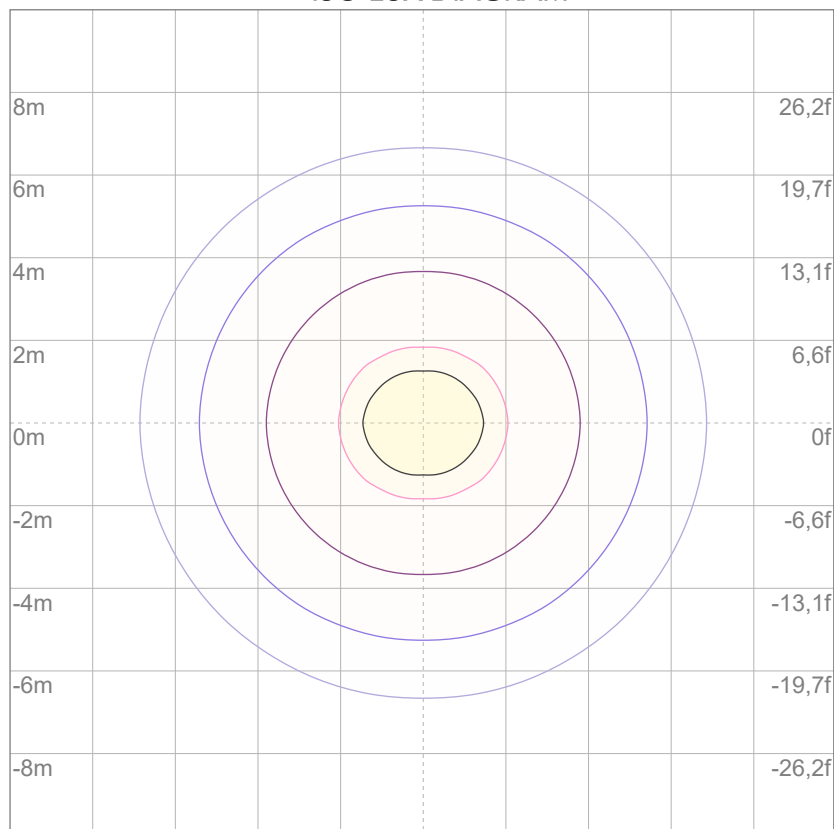
10%	385 cd
20%	771 cd
30%	1156 cd
40%	1541 cd
50%	1926 cd
60%	2312 cd
70%	2697 cd
80%	3082 cd

Conditions:

Number of c-planes: 4

Candela at center: 3853 cd

ISO LUX DIAGRAM



3%	1,16 lx
5%	1,93 lx
10%	3,85 lx
30%	11,6 lx
50%	19,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 38,5 lx

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

Total lumen output:

638 lm

Peak candela output:

1317 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 20°

Target:

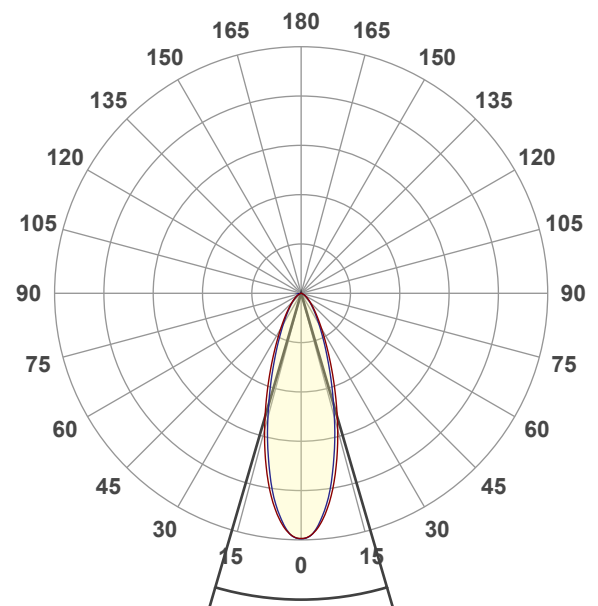
Full on

Operator:

Paolo Carvone

Date and time:

11/07/2022 09:39:33

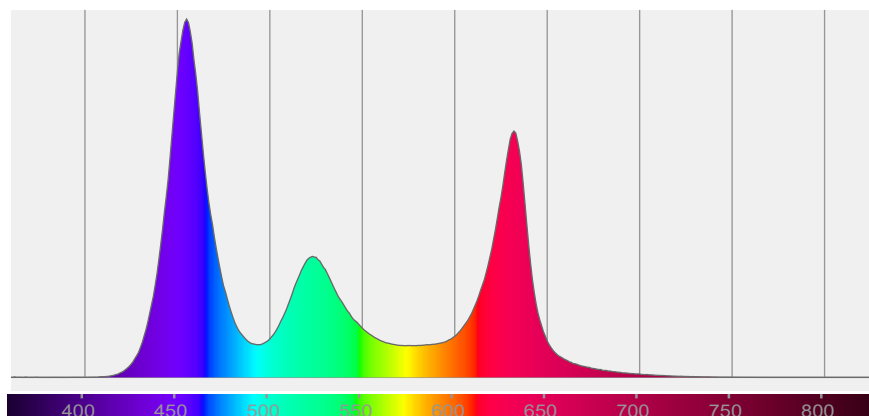


Beam angle 50%: 32,6°

Field angle 10%: 71,3°

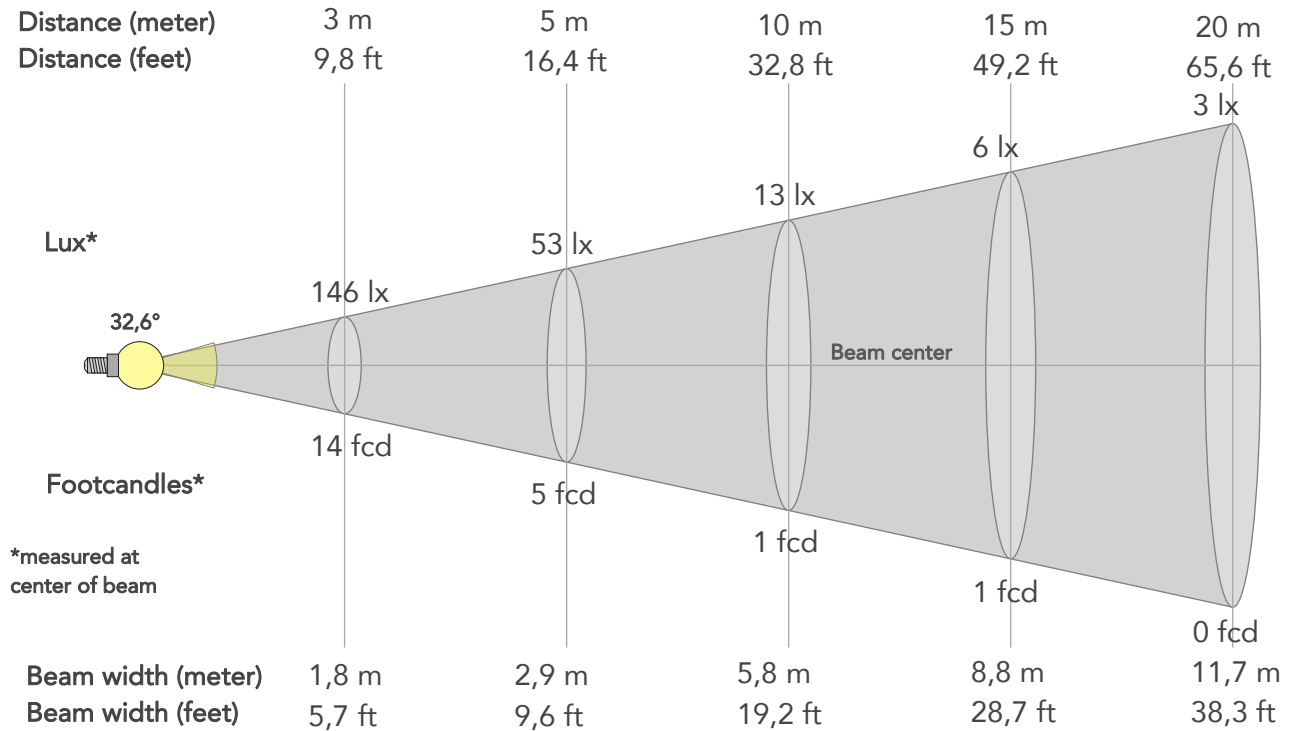
Cut off angle 2.5%: 109,3°

Spectra



BEAM DETAILS

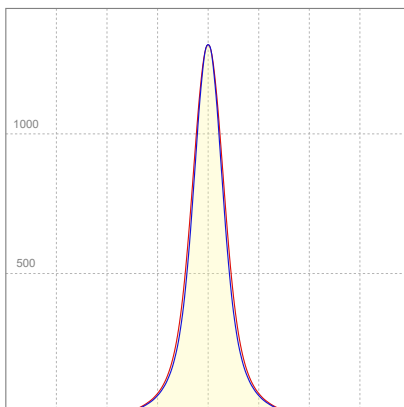
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,6°	71,3°	109,3°	97,9%	89,8%



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	1317lx	329lx	146lx	82lx	53lx	23lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	122fcd	31fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,3m	2,9m	4,4m	5,8m	8,8m	11,7m	14,6m	17,5m	23,4m	29,2m
Beam wid.	1,9ft	3,9ft	5,7ft	7,6ft	9,6ft	14,4ft	19,2ft	28,7ft	38,3ft	47,9ft	57,5ft	76,6ft	95,8ft

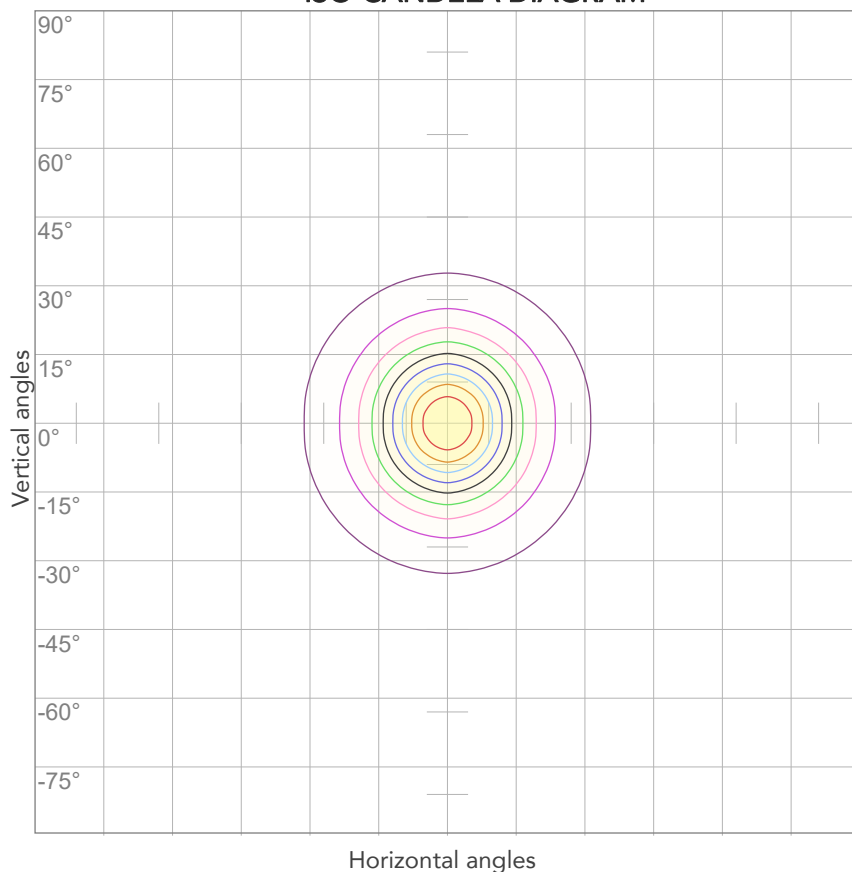
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,112A	21,7W	29lm/W
Power FC			
0,86			

ISO CANDELA DIAGRAM



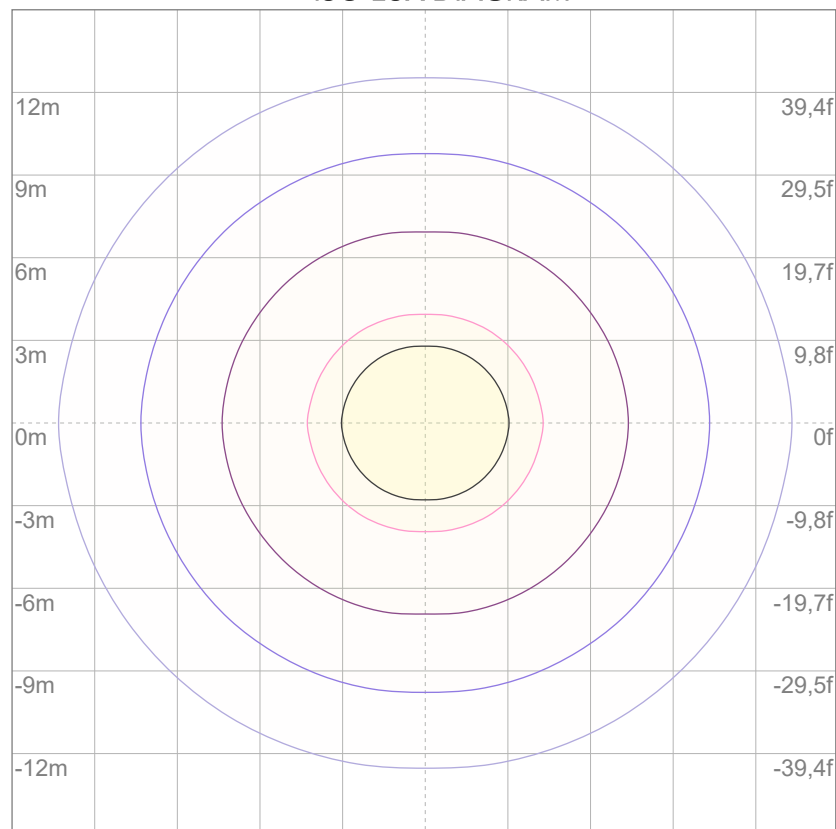
10%	132 cd
20%	263 cd
30%	395 cd
40%	527 cd
50%	658 cd
60%	790 cd
70%	922 cd
80%	1053 cd

Conditions:

Number of c-planes: 4

Candela at center: 1317 cd

ISO LUX DIAGRAM



3%	0,395 lx
5%	0,658 lx
10%	1,32 lx
30%	3,95 lx
50%	6,58 lx

Conditions:

Number of c-planes: 4

Lux at center: 13,2 lx

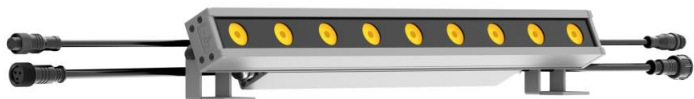
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

618 lm

Peak candela output:

460 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 60°

Target:

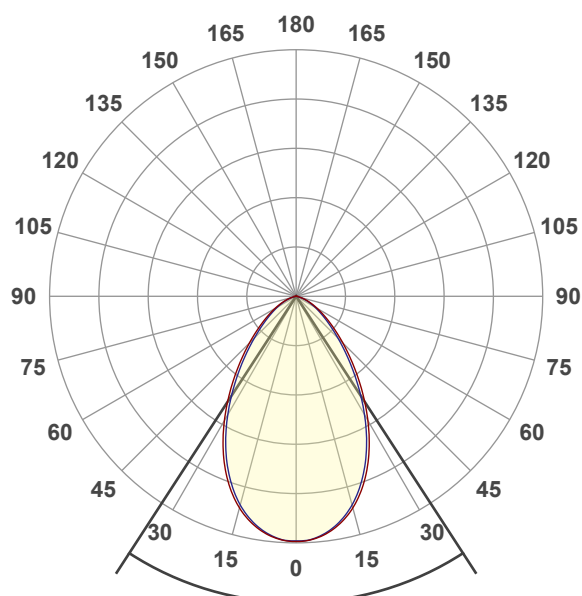
Full on

Operator:

Paolo Carvone

Date and time:

11/07/2022 10:24:57

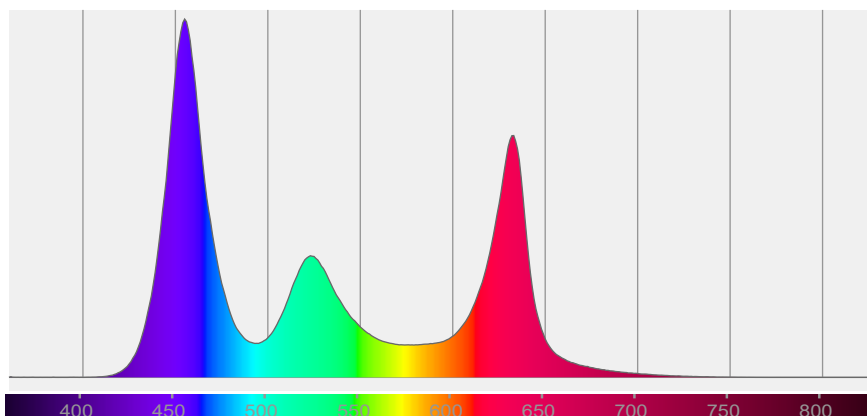


Beam angle 50%: 66°

Field angle 10%: 118,4°

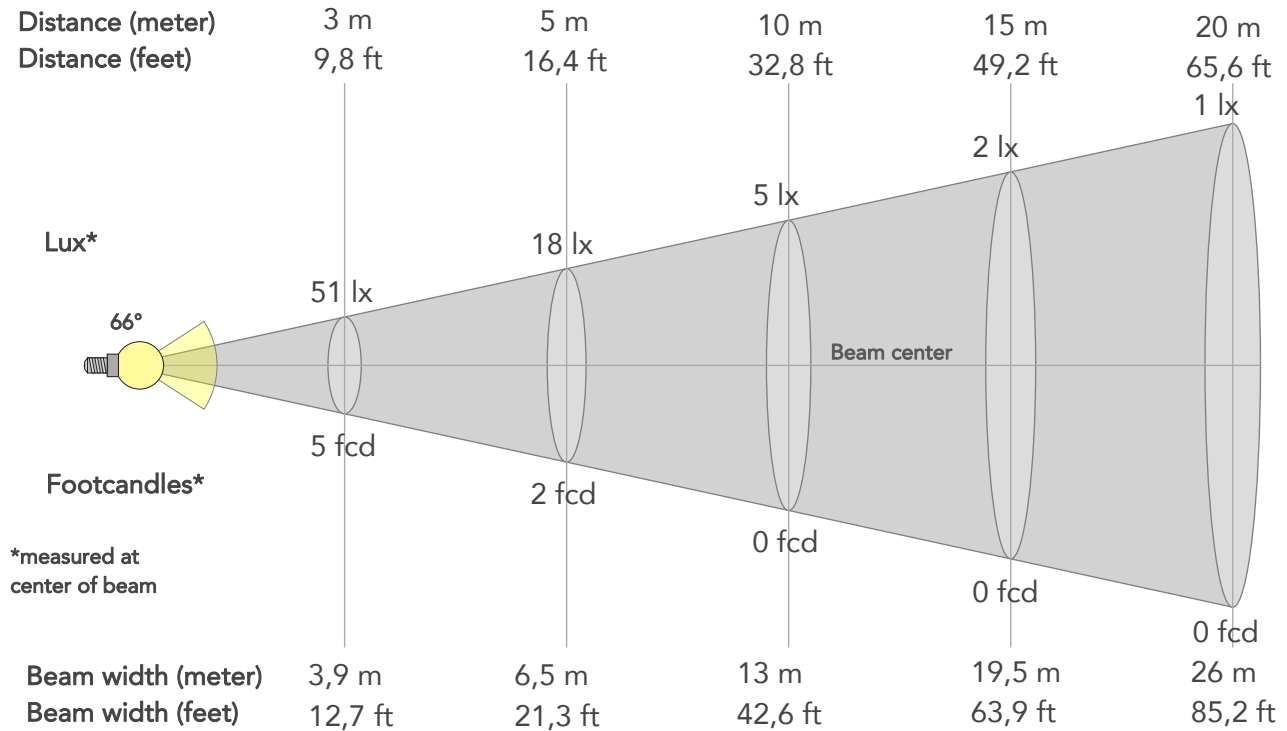
Cut off angle 2.5%: 145,3°

Spectra



BEAM DETAILS

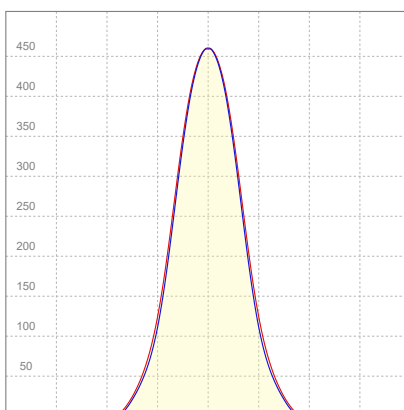
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
66°	118,4°	145,3°	93,9%	78,2%



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	460lx	115lx	51lx	29lx	18lx	8lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	43fcd	11fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,9m	5,2m	6,5m	9,7m	13m	19,5m	26m	32,5m	39m	52m	65m
Beam wid.	4,3ft	8,6ft	12,7ft	17ft	21,3ft	32ft	42,6ft	63,9ft	85,2ft	106,5ft	127,8ft	170,4ft	213ft

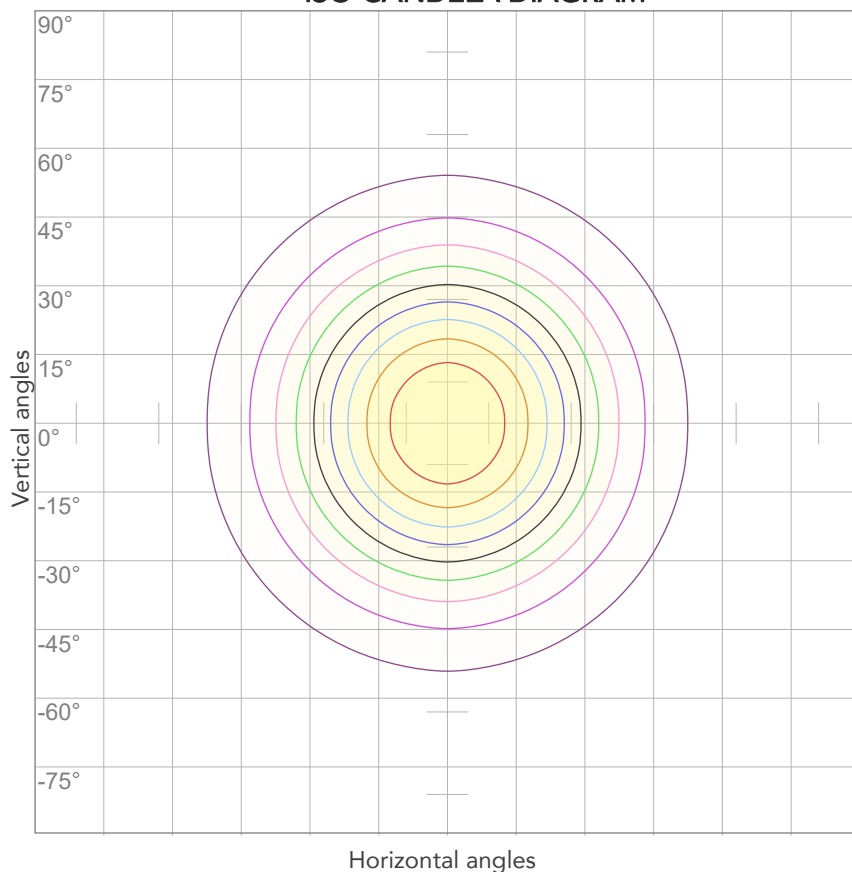
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,110A	21,6W	29lm/W
Power FC			
0,86			

ISO CANDELA DIAGRAM



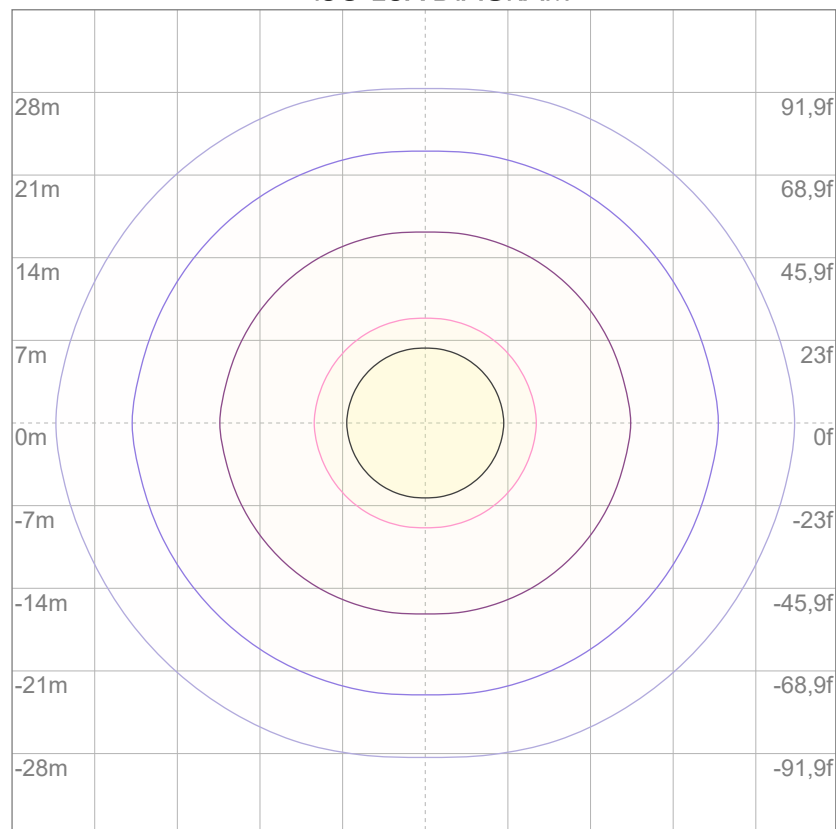
10%	46 cd
20%	92 cd
30%	138 cd
40%	184 cd
50%	230 cd
60%	276 cd
70%	322 cd
80%	368 cd

Conditions:

Number of c-planes: 4

Candela at center: 460 cd

ISO LUX DIAGRAM



3%	0,138 lx
5%	0,230 lx
10%	0,460 lx
30%	1,38 lx
50%	2,30 lx

Conditions:

Number of c-planes: 4

Lux at center: 4,60 lx

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

Total lumen output:

744 lm

Peak candela output:

919 cd



PRODUCT NAME:

ARCSHINES9FC

MEASUREMENT CONDITIONS:

Beam angle:

15° + Filter 10°x60°

Target:

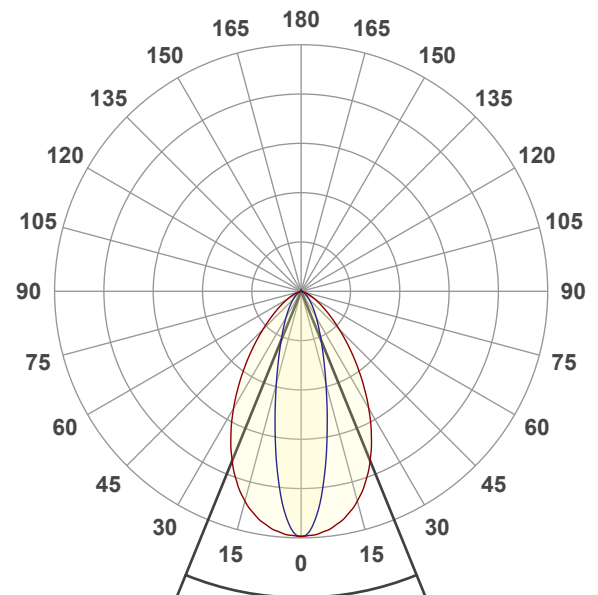
Full on

Operator:

Paolo Carvone

Date and time:

11/07/2022 10:47:41

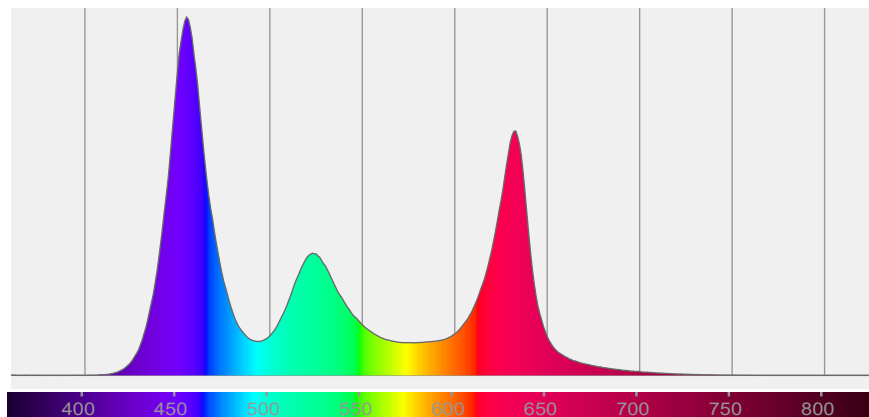


Beam angle 50%: 44,3°

Field angle 10%: 88,4°

Cut off angle 2.5%: 123°

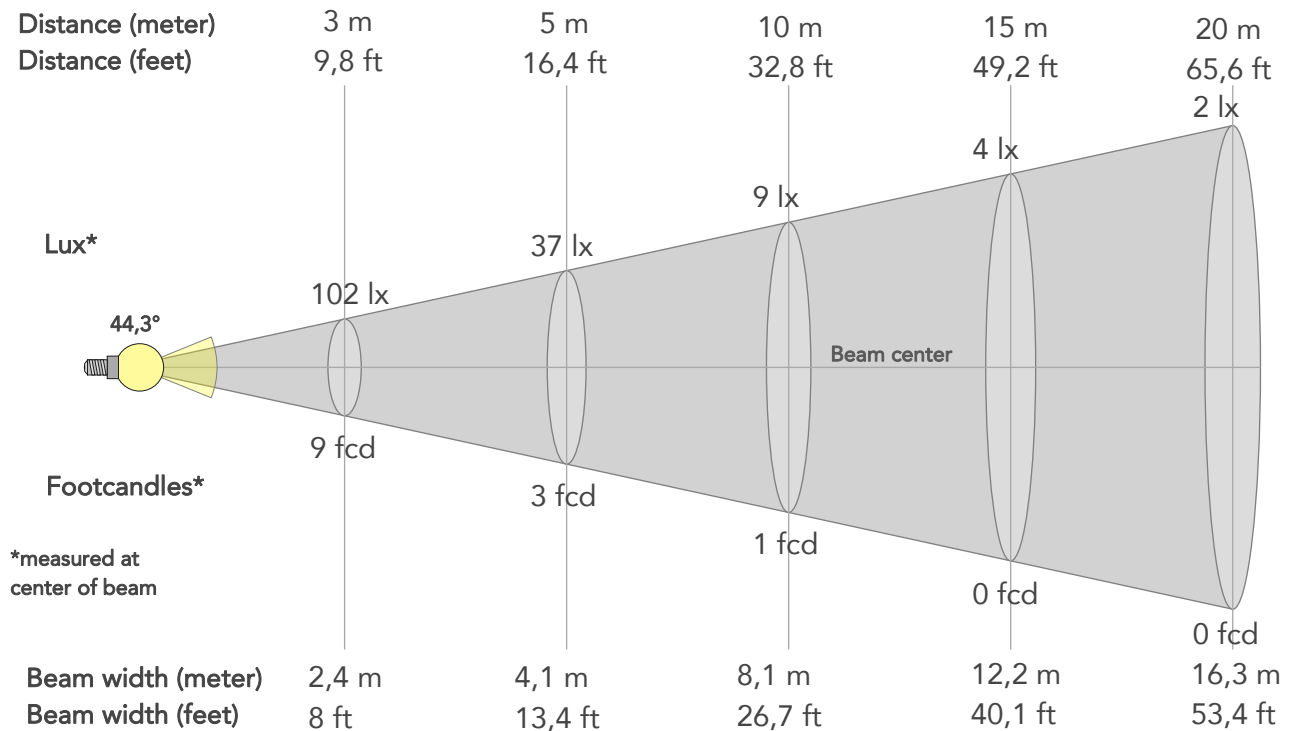
Spectra



BEAM DETAILS



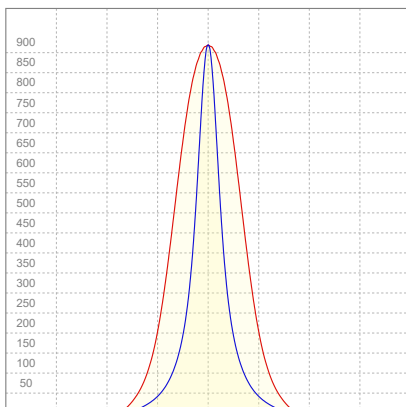
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
44,3°	88,4°	123°	96,2%	83,6%



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	918lx	230lx	102lx	57lx	37lx	16lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	85fcd	21fcd	9fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,6m	2,4m	3,3m	4,1m	6,1m	8,1m	12,2m	16,3m	20,4m	24,4m	32,6m	40,7m
Beam wid.	2,7ft	5,4ft	8ft	10,7ft	13,4ft	20ft	26,7ft	40,1ft	53,4ft	66,8ft	80,1ft	106,8ft	133,5ft

LINEAR DISTRIBUTION DIAGRAM

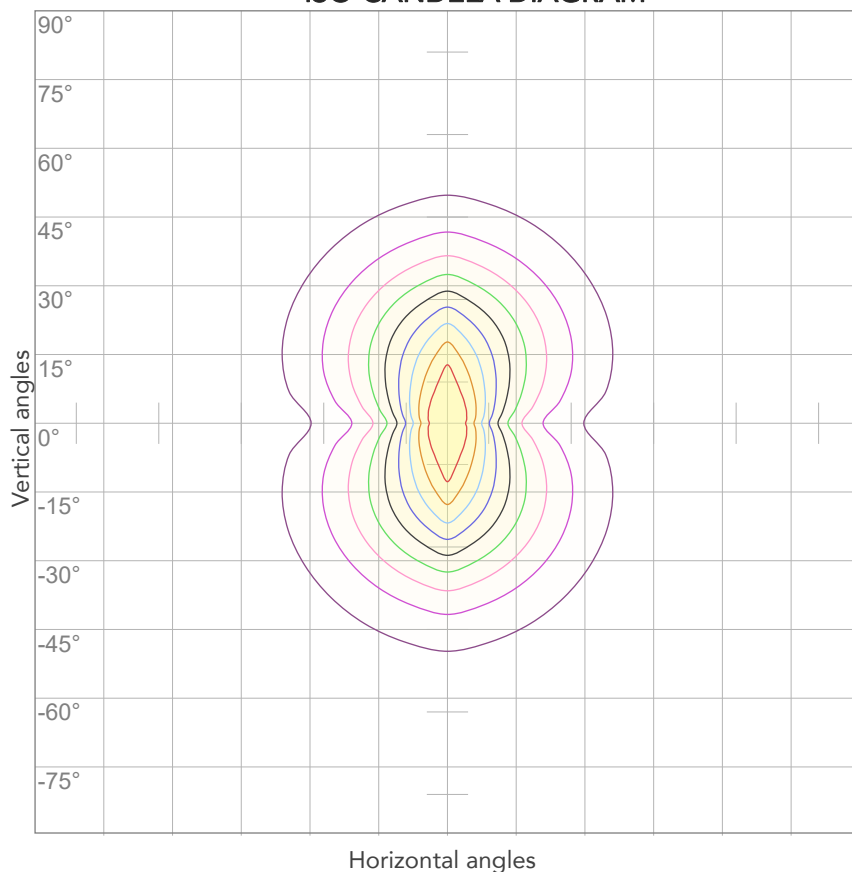


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,111A	21,6W	34lm/W

Power FC
0,86

ISO CANDELA DIAGRAM



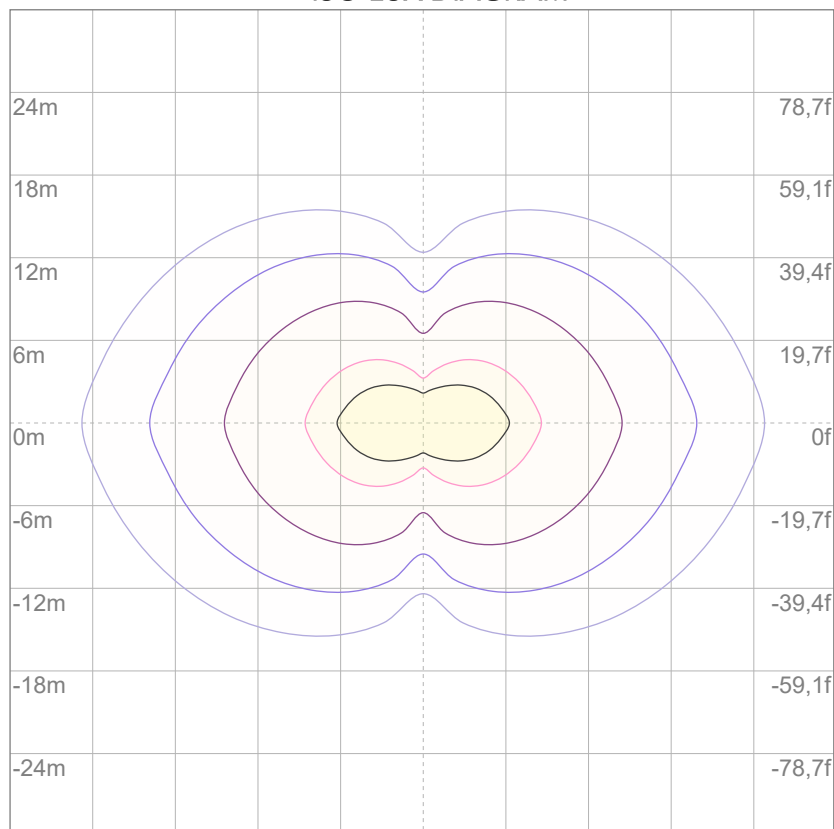
10%	92 cd
20%	184 cd
30%	275 cd
40%	367 cd
50%	459 cd
60%	551 cd
70%	643 cd
80%	735 cd

Conditions:

Number of c-planes: 4

Candela at center: 918 cd

ISO LUX DIAGRAM



3%	0,275 lx
5%	0,459 lx
10%	0,918 lx
30%	2,75 lx
50%	4,59 lx

Conditions:

Number of c-planes: 4

Lux at center: 9,18 lx

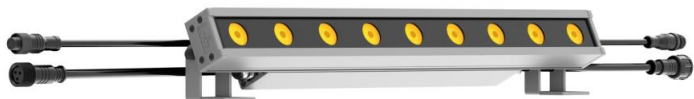
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

644 lm

Peak candela output:

579 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 30°x60°

Target:

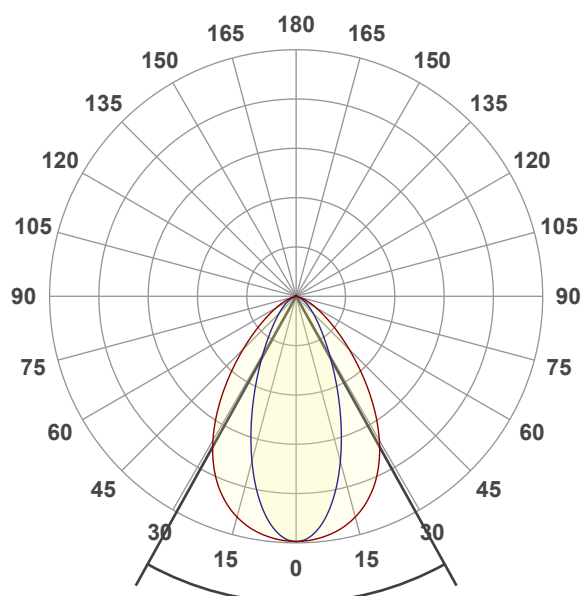
Full on

Operator:

Paolo Carvone

Date and time:

11/07/2022 11:09:59

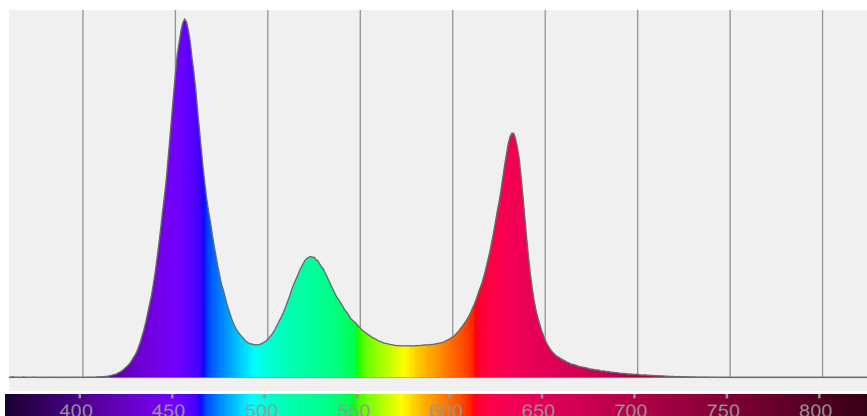


Beam angle 50%: 58°

Field angle 10%: 104,1°

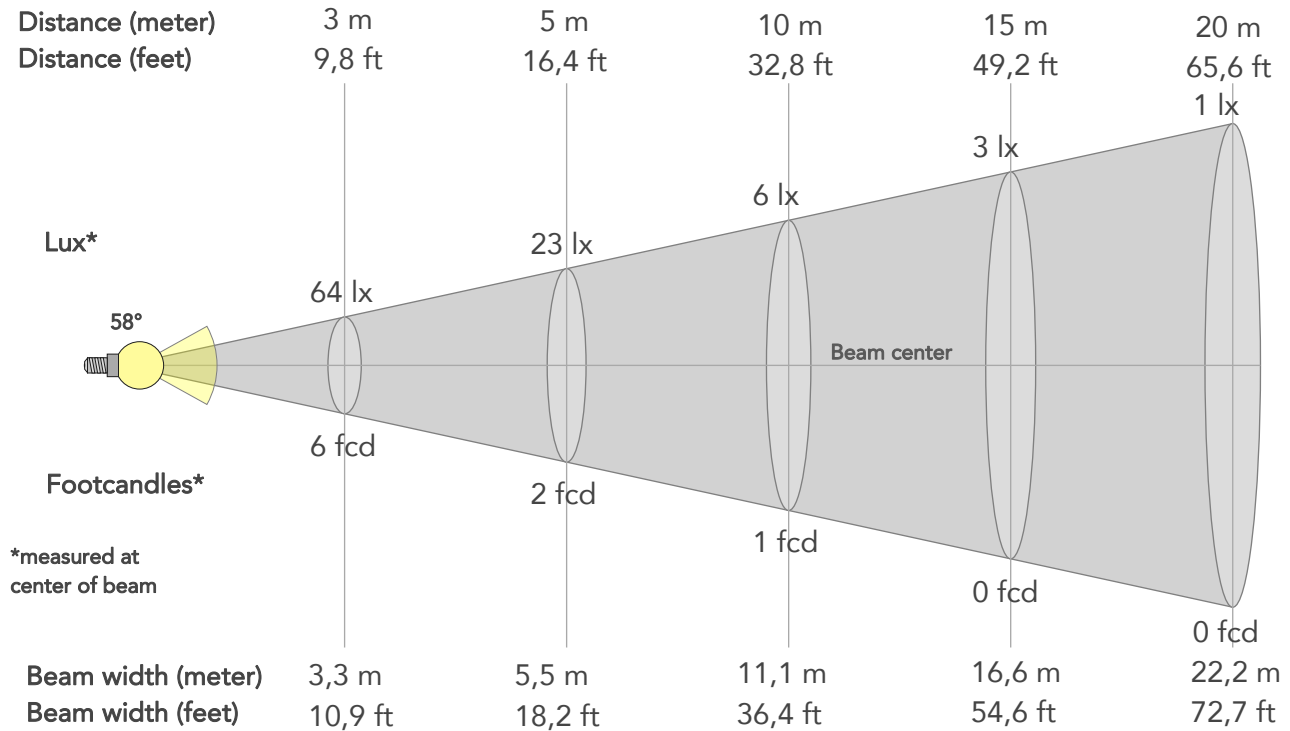
Cut off angle 2.5%: 134,7°

Spectra



BEAM DETAILS

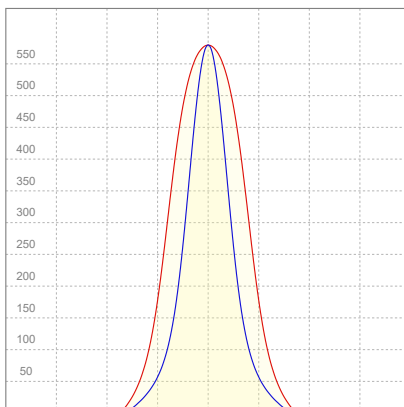
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58°	104,1°	134,7°	95,6%	81,5%



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	579lx	145lx	64lx	36lx	23lx	10lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	54fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,3m	4,4m	5,5m	8,3m	11,1m	16,6m	22,2m	27,7m	33,3m	44,4m	55,4m
Beam wid.	3,7ft	7,3ft	10,9ft	14,5ft	18,2ft	27,3ft	36,4ft	54,6ft	72,7ft	90,9ft	109,1ft	145,5ft	181,8ft

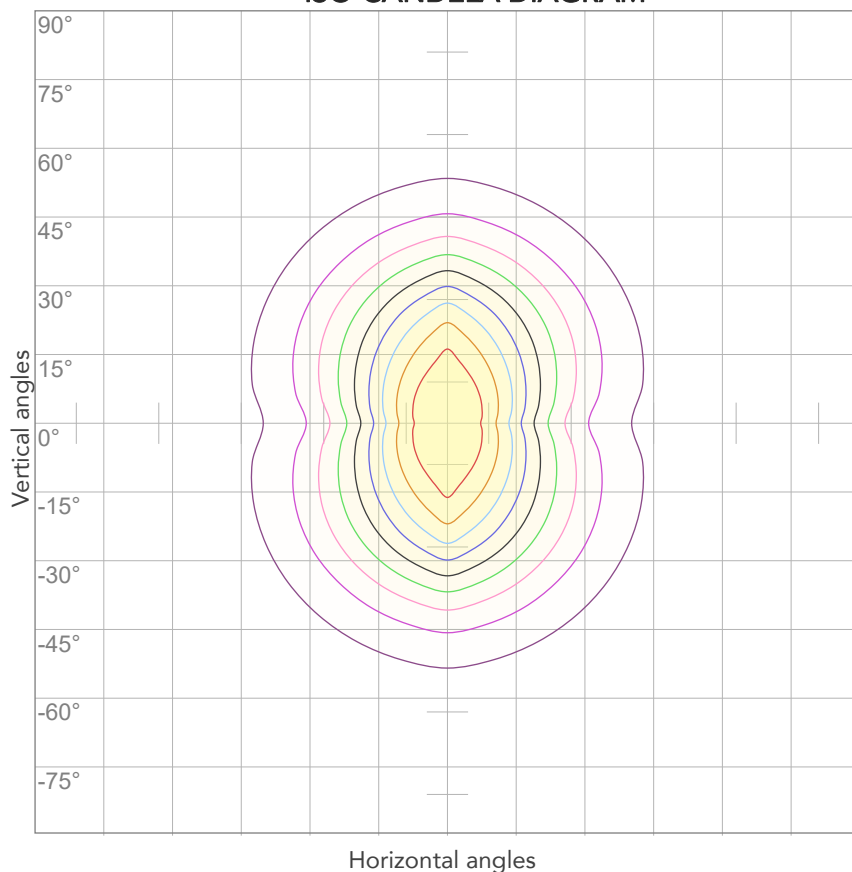
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,111A	21,6W	30lm/W
Power FC			
0,86			

ISO CANDELA DIAGRAM



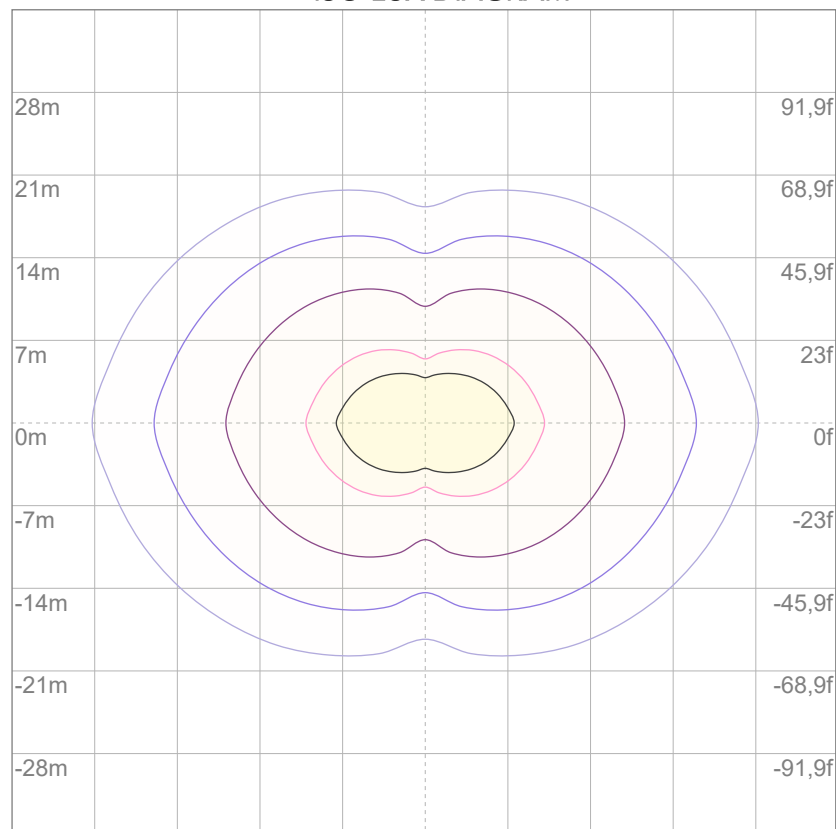
10%	58 cd
20%	116 cd
30%	174 cd
40%	232 cd
50%	290 cd
60%	348 cd
70%	405 cd
80%	463 cd

Conditions:

Number of c-planes: 4

Candela at center: 579 cd

ISO LUX DIAGRAM



3%	0,174 lx
5%	0,290 lx
10%	0,579 lx
30%	1,74 lx
50%	2,90 lx

Conditions:

Number of c-planes: 4

Lux at center: 5,79 lx

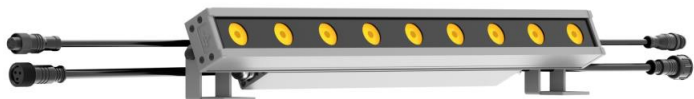
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

239 lm

Peak candela output:

1398 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15°

Target:

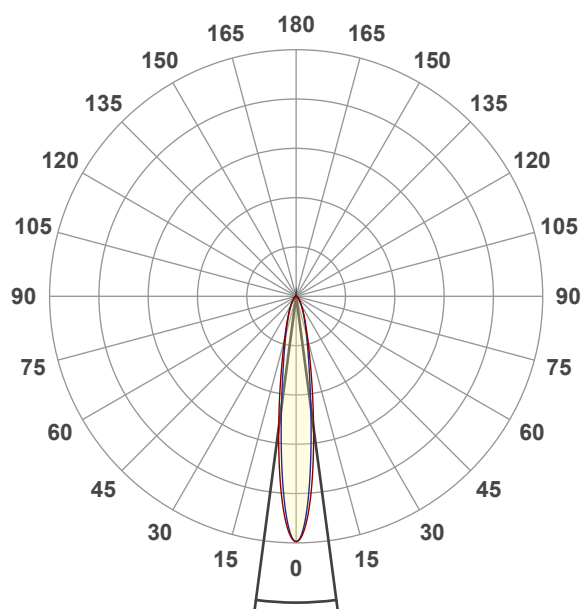
Red

Operator:

Paolo Carvone

Date and time:

08/07/2022 16:18:11

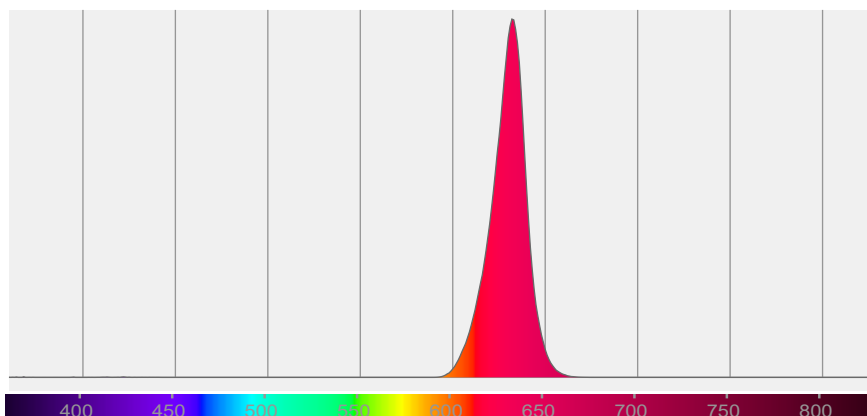


Beam angle 50%: 15,1°

Field angle 10%: 40,3°

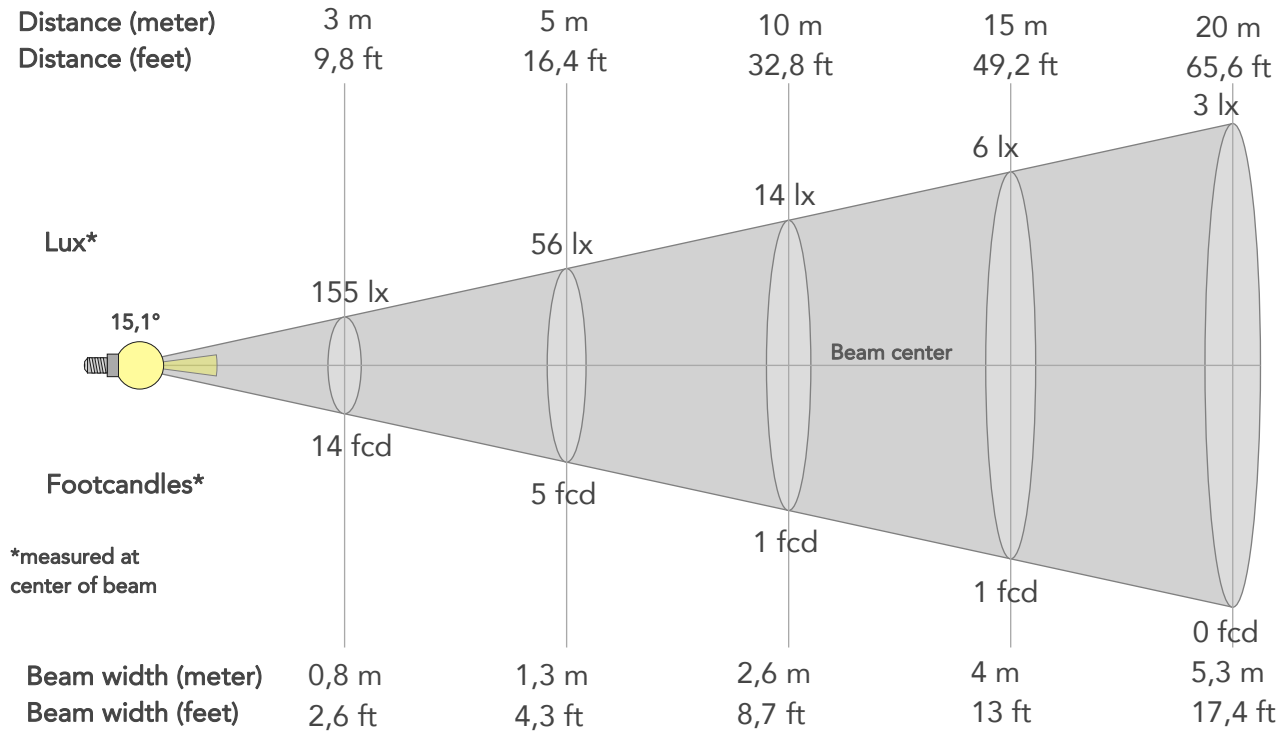
Cut off angle 2.5%: 73,2°

Spectra



BEAM DETAILS

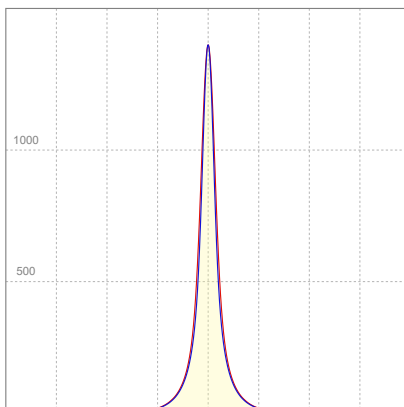
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	40,3°	73,2°	98,9%	93,1%



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	1398lx	350lx	155lx	87lx	56lx	25lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	130fcd	32fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,6m	4m	5,3m	6,6m	7,9m	10,6m	13,2m
Beam wid.	0,9ft	1,7ft	2,6ft	3,5ft	4,3ft	6,5ft	8,7ft	13ft	17,4ft	21,7ft	26,1ft	34,7ft	43,4ft

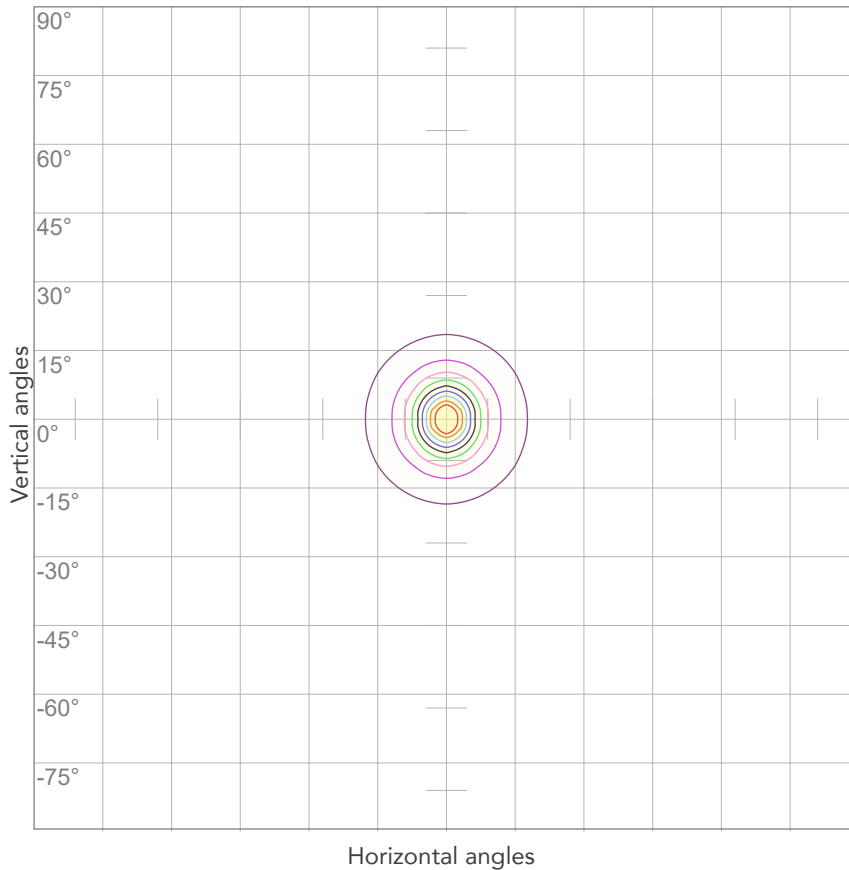
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,066A	9,8W	24lm/W
Power FC			
0,66			

ISO CANDELA DIAGRAM



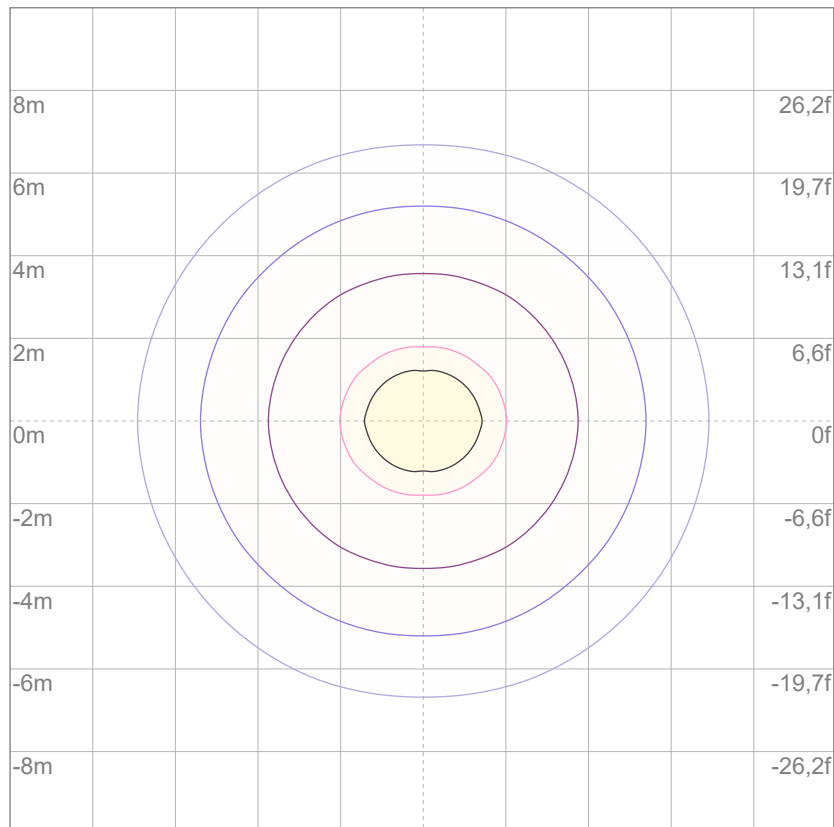
10%	140 cd
20%	280 cd
30%	419 cd
40%	559 cd
50%	699 cd
60%	839 cd
70%	979 cd
80%	1119 cd

Conditions:

Number of c-planes: 4

Candela at center: 1398 cd

ISO LUX DIAGRAM



3%	0,419 lx
5%	0,699 lx
10%	1,40 lx
30%	4,19 lx
50%	6,99 lx

Conditions:

Number of c-planes: 4

Lux at center: 14,0 lx

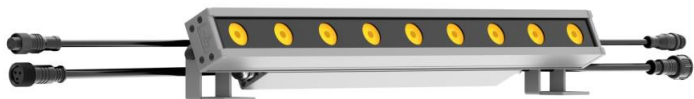
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

240 lm

Peak candela output:

503 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 20°

Target:

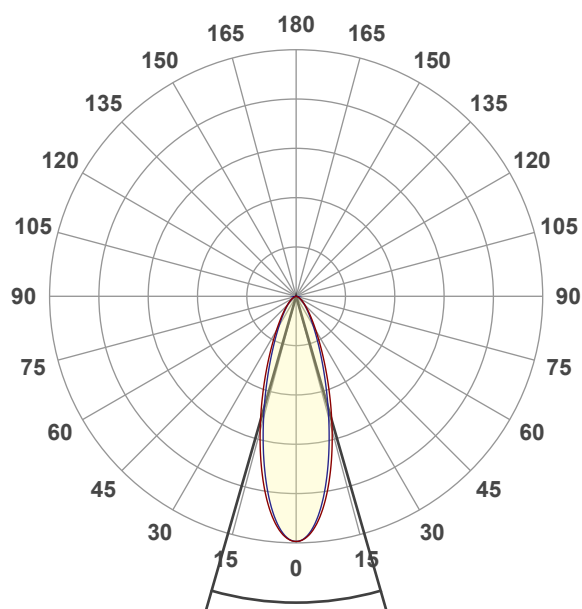
Red

Operator:

Paolo Carvone

Date and time:

11/07/2022 09:42:46

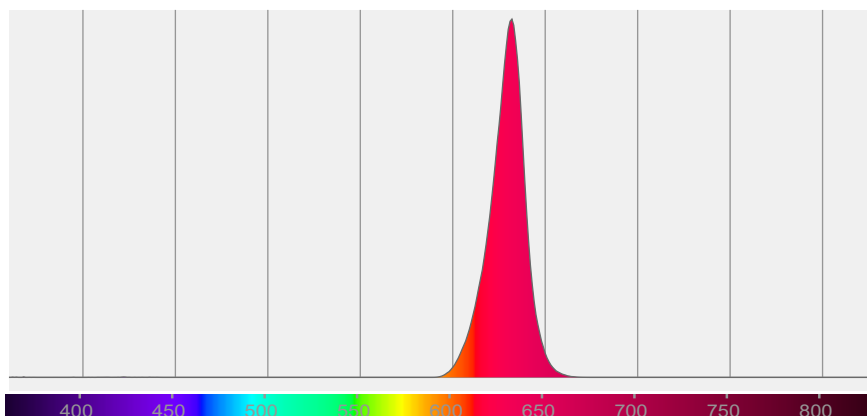


Beam angle 50%: 32°

Field angle 10%: 70,2°

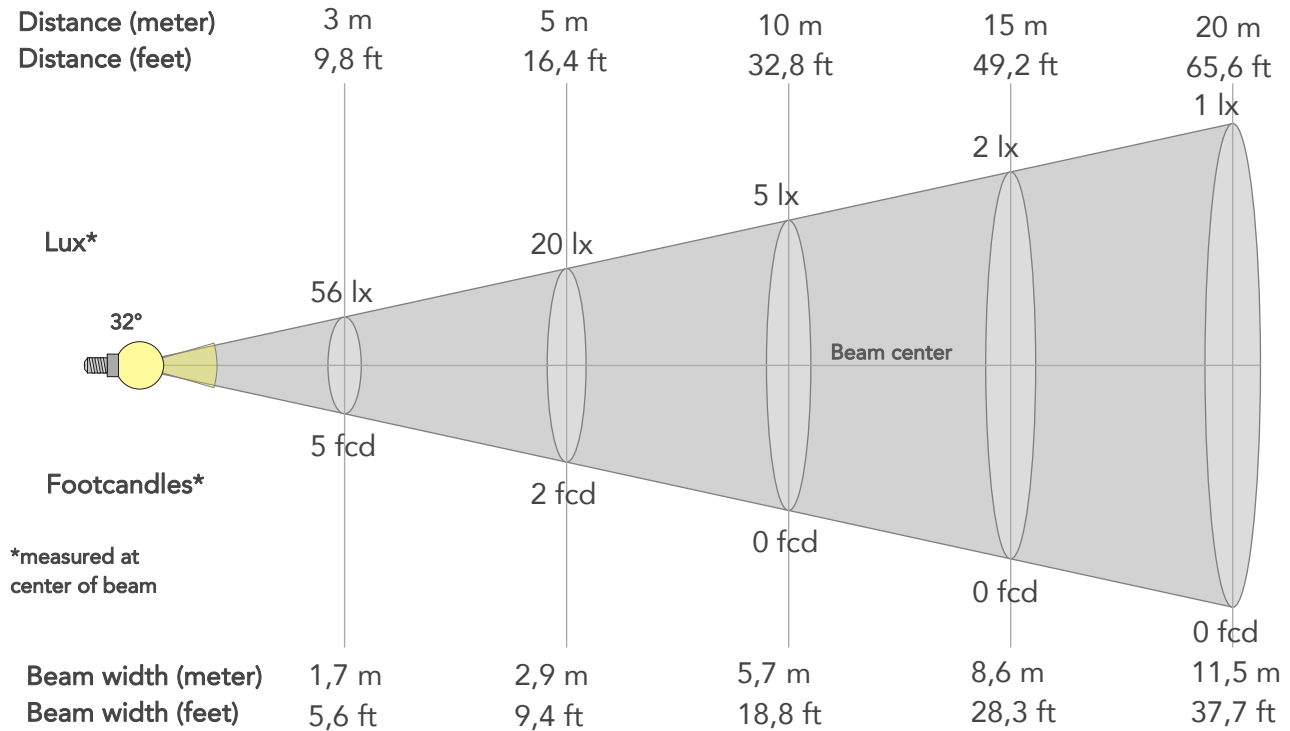
Cut off angle 2.5%: 109,5°

Spectra



BEAM DETAILS

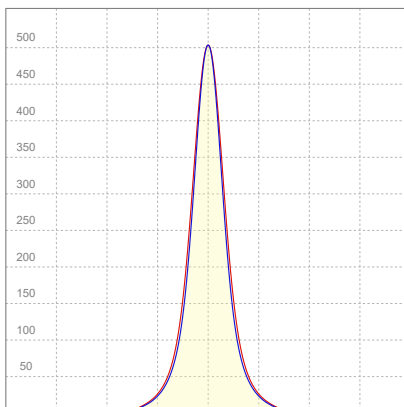
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32°	70,2°	109,5°	97,3%	89,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	503lx	126lx	56lx	31lx	20lx	9lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	47fcd	12fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,9m	4,3m	5,7m	8,6m	11,5m	14,4m	17,2m	23m	28,7m
Beam wid.	1,9ft	3,8ft	5,6ft	7,5ft	9,4ft	14,1ft	18,8ft	28,3ft	37,7ft	47,1ft	56,5ft	75,4ft	94,2ft

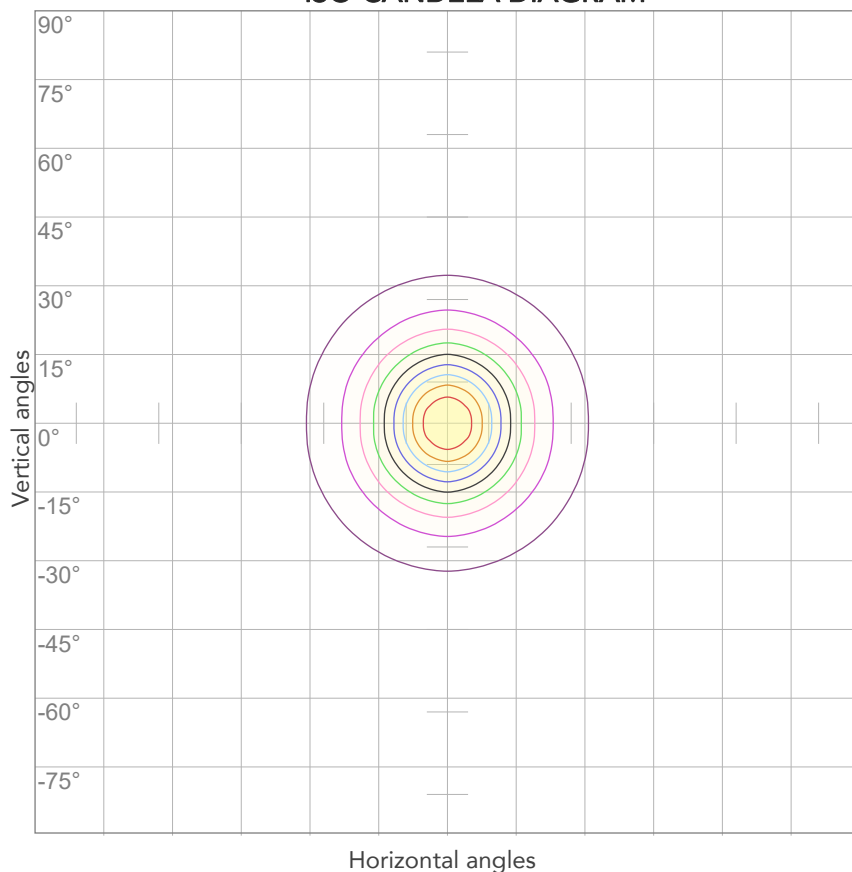
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,067A	9,9W	24lm/W
Power FC			
0,66			

ISO CANDELA DIAGRAM



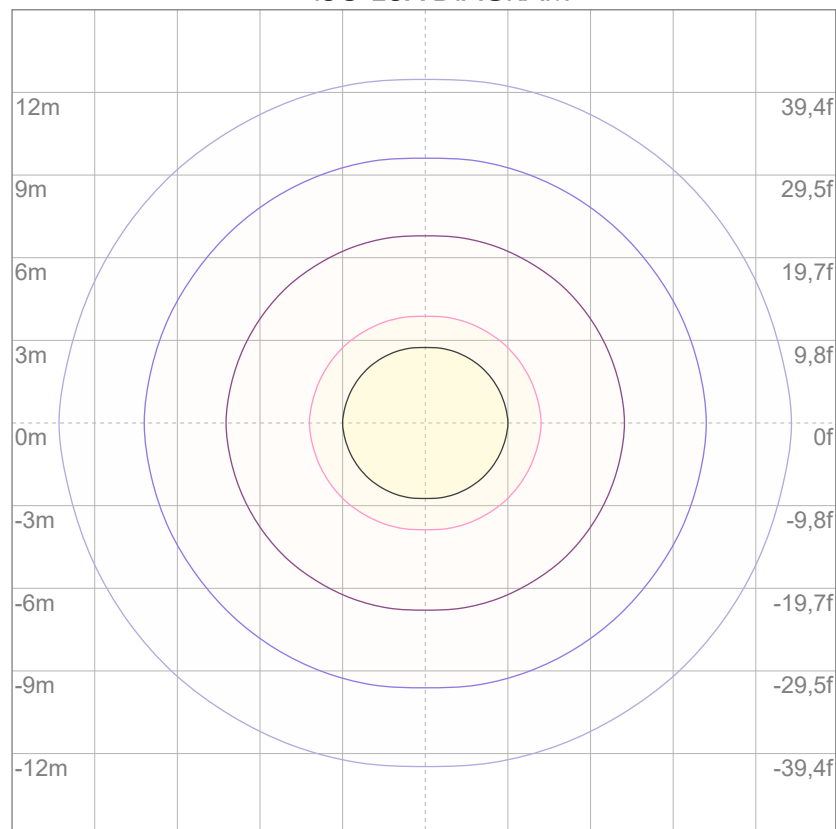
10%	50 cd
20%	101 cd
30%	151 cd
40%	201 cd
50%	252 cd
60%	302 cd
70%	352 cd
80%	403 cd

Conditions:

Number of c-planes: 4

Candela at center: 503 cd

ISO LUX DIAGRAM



3%	0,151 lx
5%	0,252 lx
10%	0,503 lx
30%	1,51 lx
50%	2,52 lx

Conditions:

Number of c-planes: 4

Lux at center: 5,03 lx

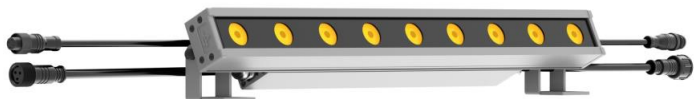
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

226 lm

Peak candela output:

172 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 60°

Target:

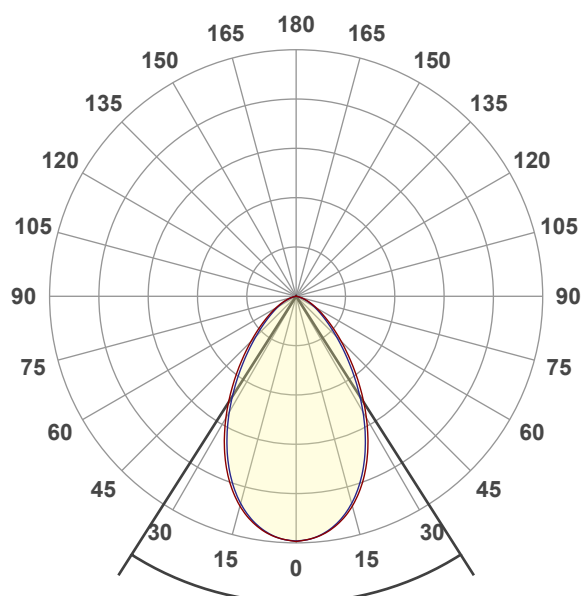
Red

Operator:

Paolo Carvone

Date and time:

11/07/2022 10:27:02

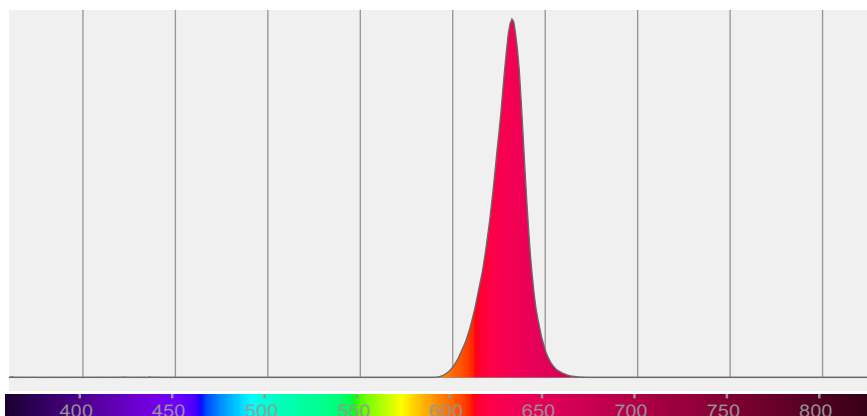


Beam angle 50%: 65°

Field angle 10%: 117,2°

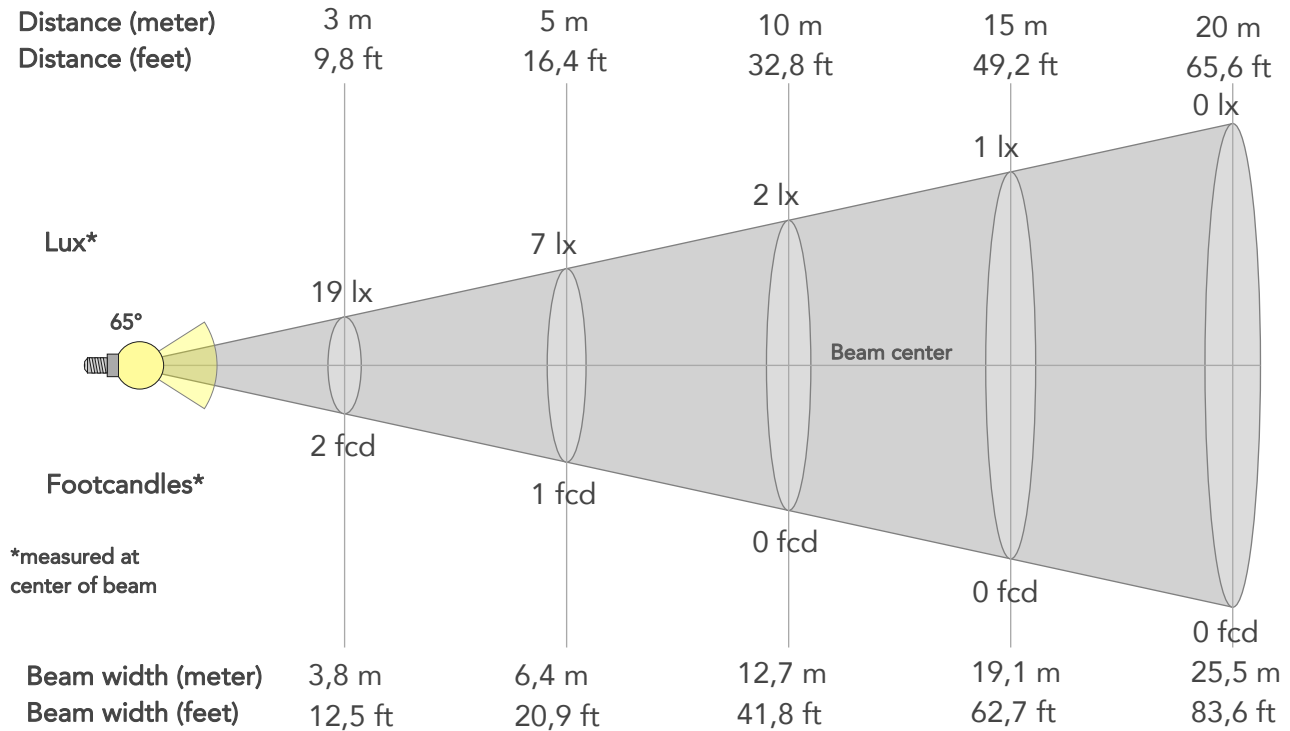
Cut off angle 2.5%: 145,5°

Spectra



BEAM DETAILS

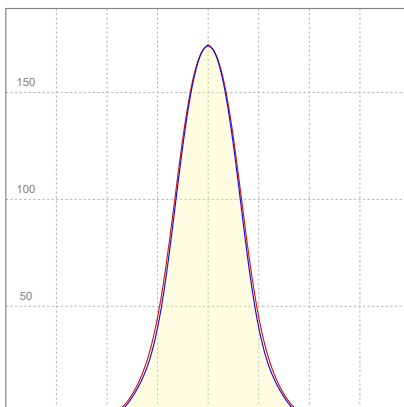
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65°	117,2°	145,5°	93,8%	78,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	172lx	43lx	19lx	11lx	7lx	3lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	16fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,5m	3,8m	5,1m	6,4m	9,6m	12,7m	19,1m	25,5m	31,9m	38,2m	51m	63,7m
Beam wid.	4,2ft	8,4ft	12,5ft	16,7ft	20,9ft	31,3ft	41,8ft	62,7ft	83,6ft	104,5ft	125,4ft	167,2ft	208,9ft

LINEAR DISTRIBUTION DIAGRAM

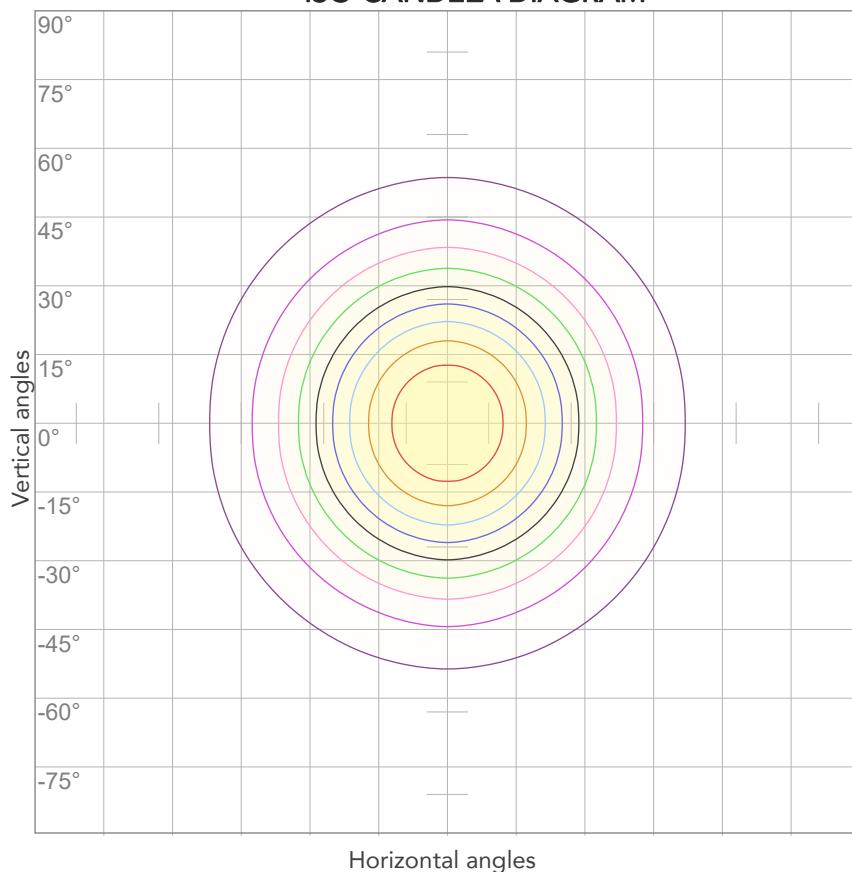


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,066A	9,8W	23lm/W

Power FC
0,66

ISO CANDELA DIAGRAM



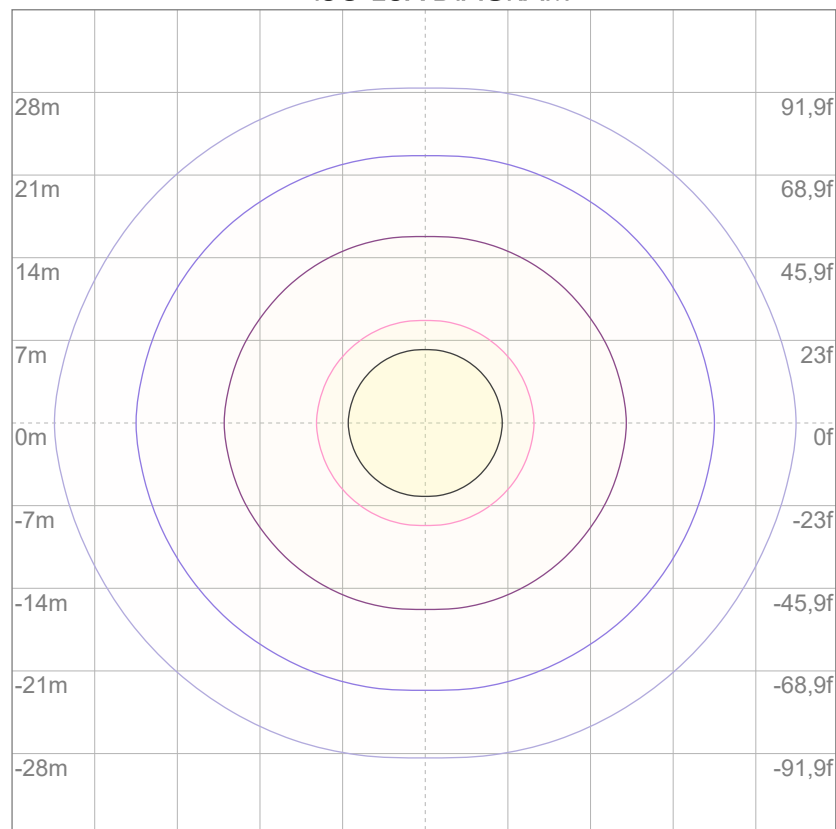
10%	17 cd
20%	34 cd
30%	52 cd
40%	69 cd
50%	86 cd
60%	103 cd
70%	120 cd
80%	138 cd

Conditions:

Number of c-planes: 4

Candela at center: 172 cd

ISO LUX DIAGRAM



3%	51,6m lx
5%	86,0m lx
10%	0,172 lx
30%	0,516 lx
50%	0,860 lx

Conditions:

Number of c-planes: 4

Lux at center: 1,72 lx

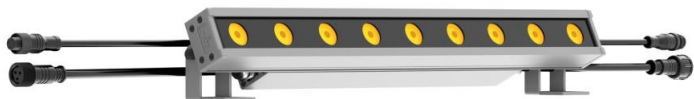
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

272 lm

Peak candela output:

344 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 10°x 60°

Target:

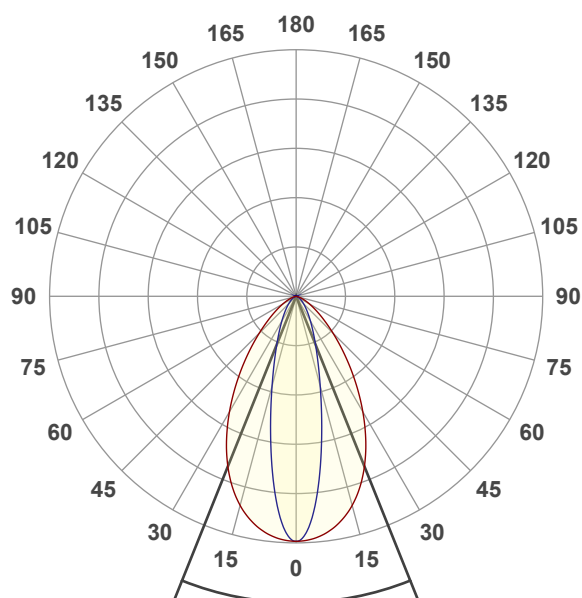
Red

Operator:

Paolo Carvone

Date and time:

11/07/2022 10:53:50

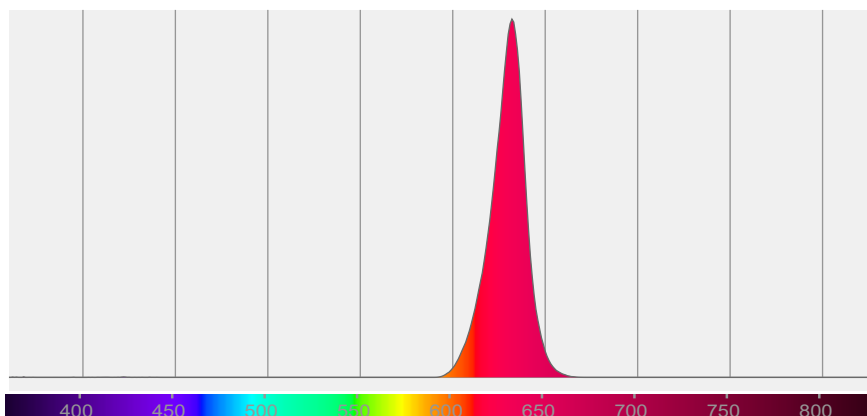


Beam angle 50%: 43,7°

Field angle 10%: 86,9°

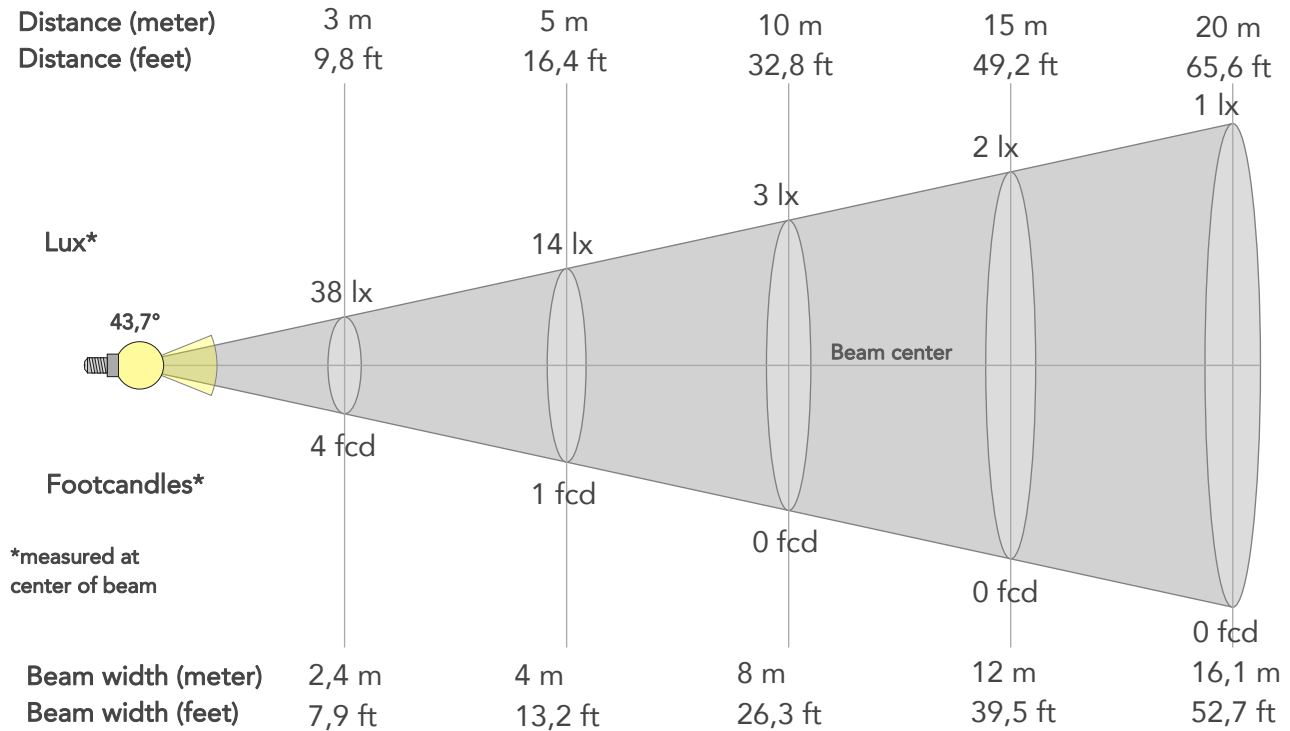
Cut off angle 2.5%: 122°

Spectra



BEAM DETAILS

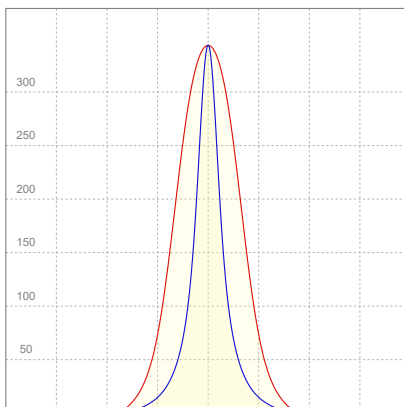
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
43,7°	86,9°	122°	96,2%	83,9%



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	343lx	86lx	38lx	21lx	14lx	6lx	3lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	32fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,6m	2,4m	3,2m	4m	6m	8m	12m	16,1m	20,1m	24,1m	32,1m	40,1m
Beam wid.	2,6ft	5,3ft	7,9ft	10,5ft	13,2ft	19,7ft	26,3ft	39,5ft	52,7ft	65,8ft	79ft	105,3ft	131,7ft

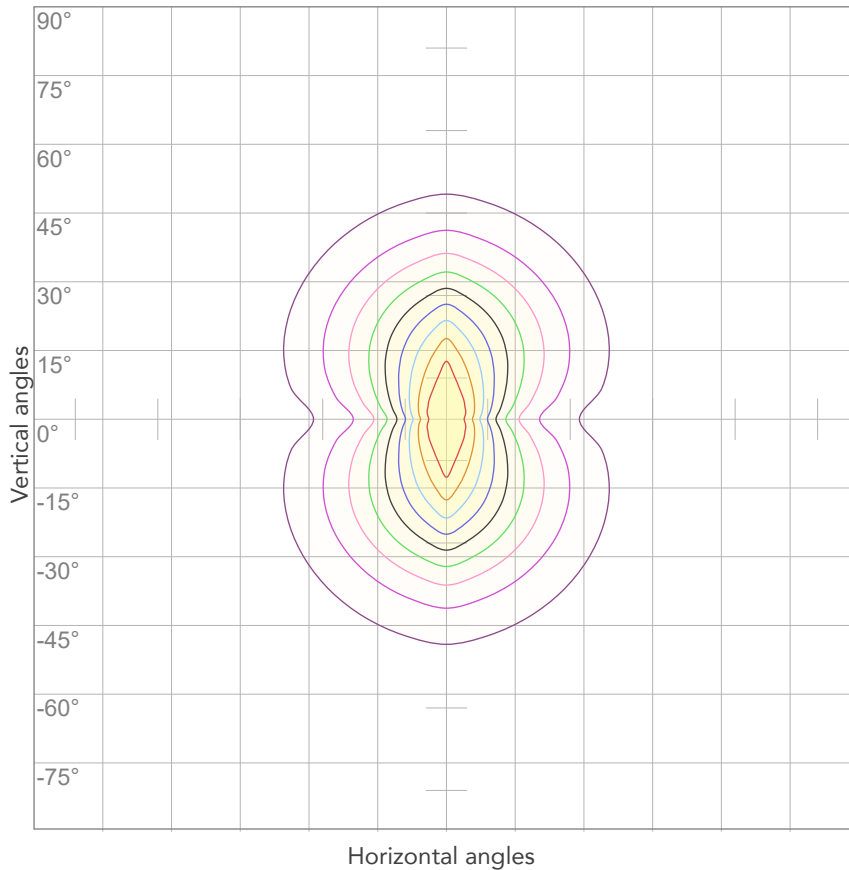
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,064A	9,7W	28lm/W
Power FC			
0,67			

ISO CANDELA DIAGRAM



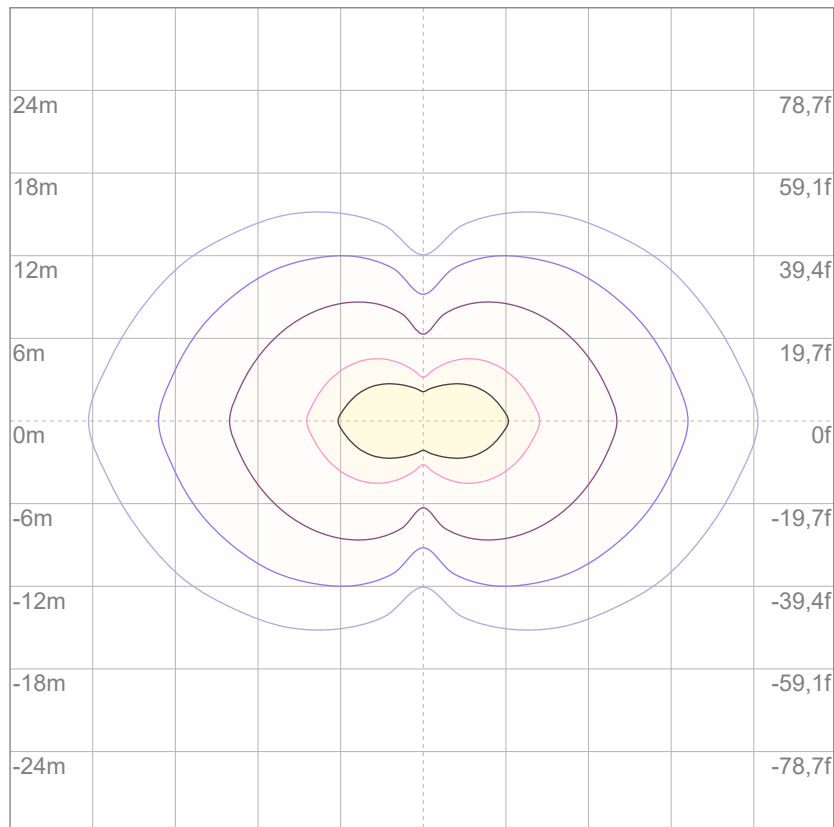
10%	34 cd
20%	69 cd
30%	103 cd
40%	137 cd
50%	172 cd
60%	206 cd
70%	240 cd
80%	275 cd

Conditions:

Number of c-planes: 4

Candela at center: 343 cd

ISO LUX DIAGRAM



3%	0,103 lx
5%	0,172 lx
10%	0,343 lx
30%	1,03 lx
50%	1,72 lx

Conditions:

Number of c-planes: 4

Lux at center: 3,43 lx

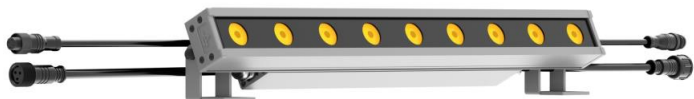
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

243 lm

Peak candela output:

219 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 30°x60°

Target:

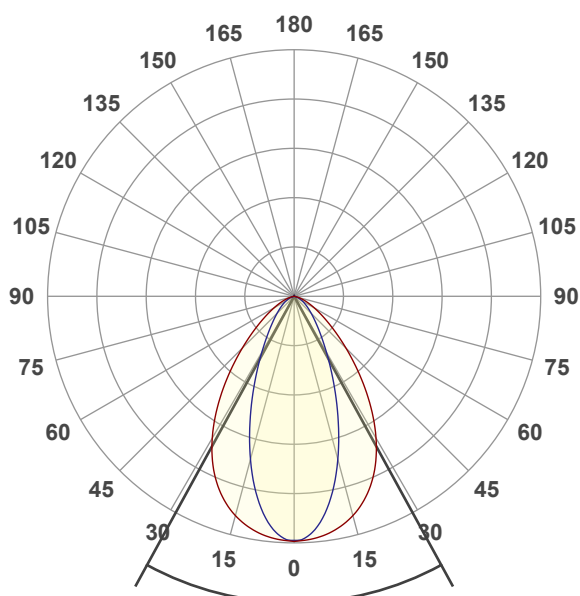
Red

Operator:

Paolo Carvone

Date and time:

11/07/2022 11:12:34

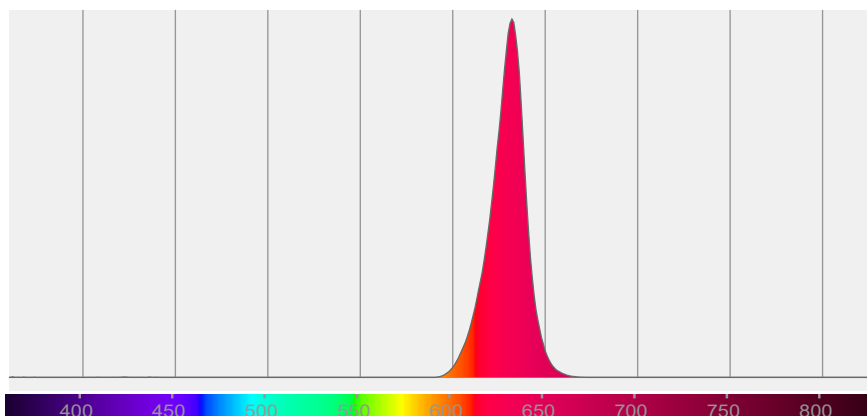


Beam angle 50%: 57,4°

Field angle 10%: 104,4°

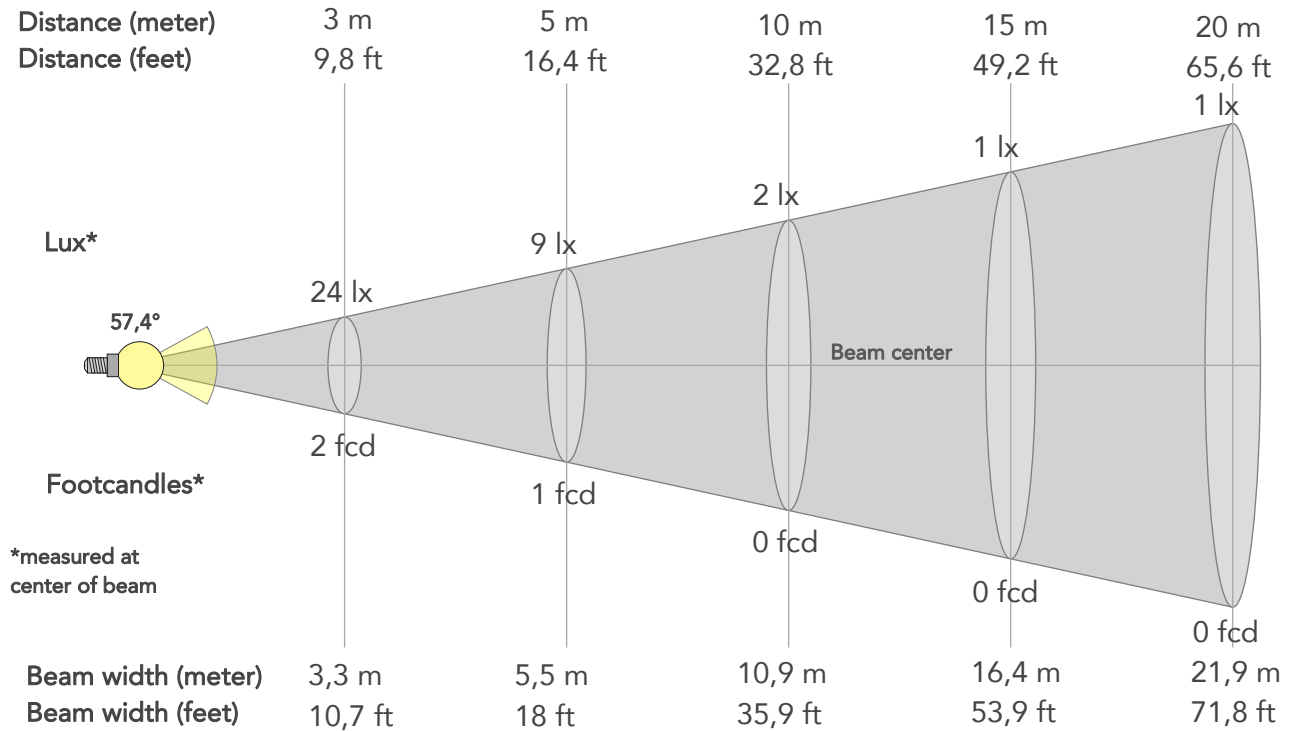
Cut off angle 2.5%: 138,4°

Spectra



BEAM DETAILS

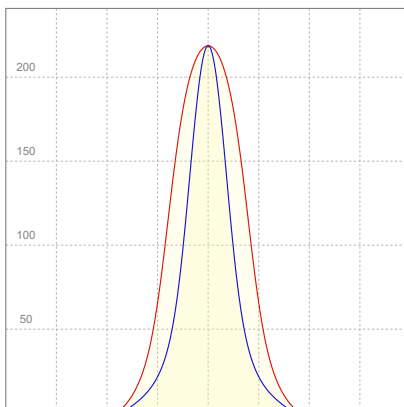
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57,4°	104,4°	138,4°	94,7%	80,5%



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	218lx	55lx	24lx	14lx	9lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	20fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,3m	4,4m	5,5m	8,2m	10,9m	16,4m	21,9m	27,4m	32,8m	43,8m	54,7m
Beam wid.	3,6ft	7,2ft	10,7ft	14,3ft	18ft	26,9ft	35,9ft	53,9ft	71,8ft	89,8ft	107,7ft	143,6ft	179,6ft

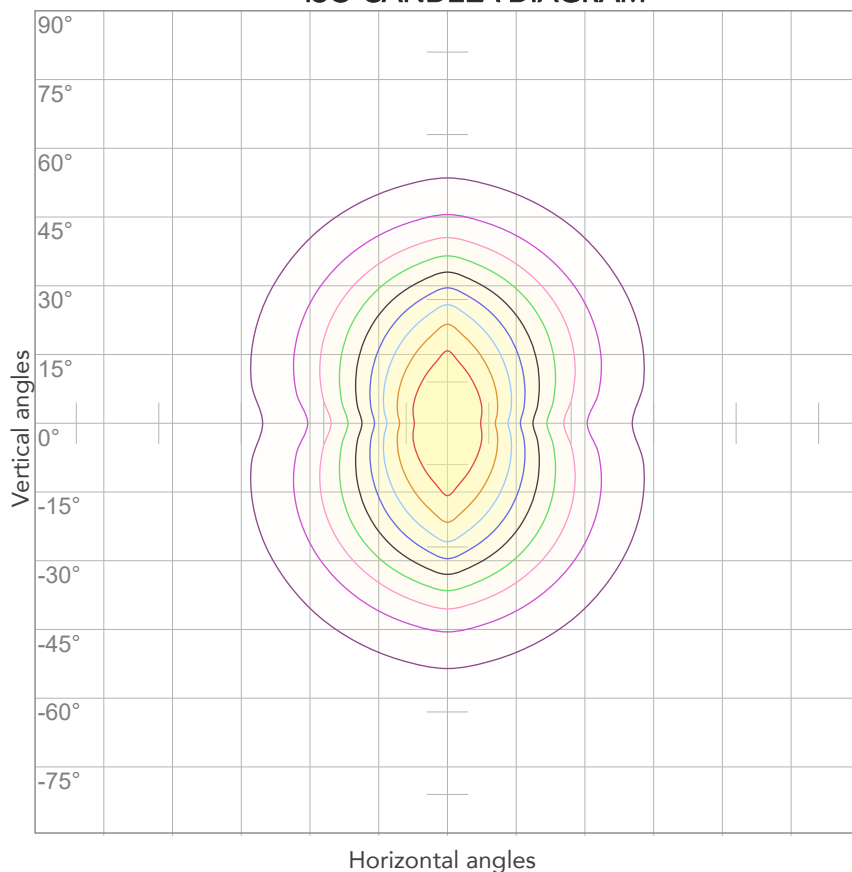
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,065A	9,8W	25lm/W
Power FC			
0,67			

ISO CANDELA DIAGRAM



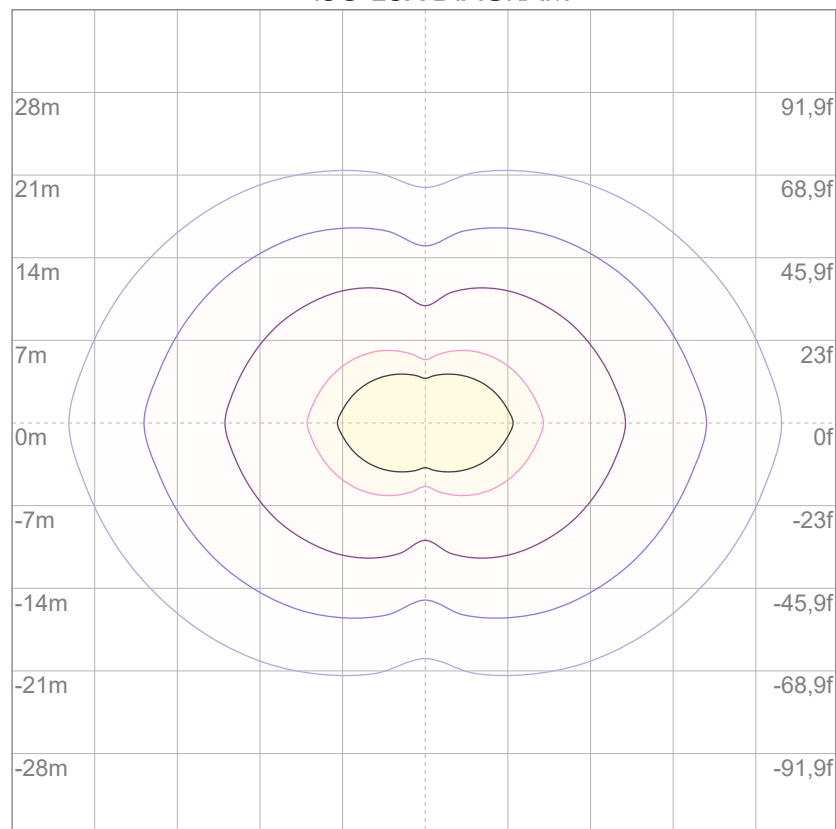
10%	22 cd
20%	44 cd
30%	66 cd
40%	87 cd
50%	109 cd
60%	131 cd
70%	153 cd
80%	175 cd

Conditions:

Number of c-planes: 4

Candela at center: 218 cd

ISO LUX DIAGRAM



3%	65,5m lx
5%	0,109 lx
10%	0,218 lx
30%	0,655 lx
50%	1,09 lx

Conditions:

Number of c-planes: 4

Lux at center: 2,18 lx

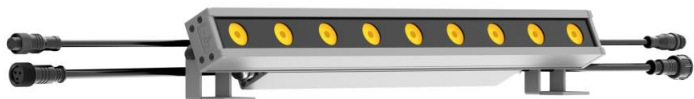
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

543 lm

Peak candela output:

2909 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15°

Target:

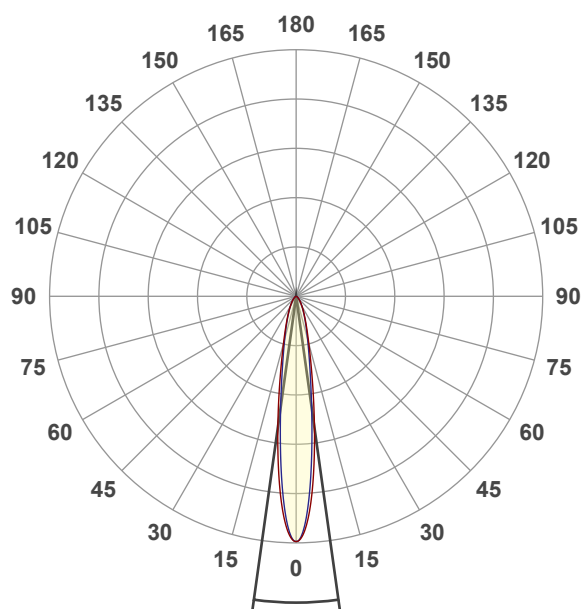
Green

Operator:

Paolo Carvone

Date and time:

11/07/2022 09:25:17

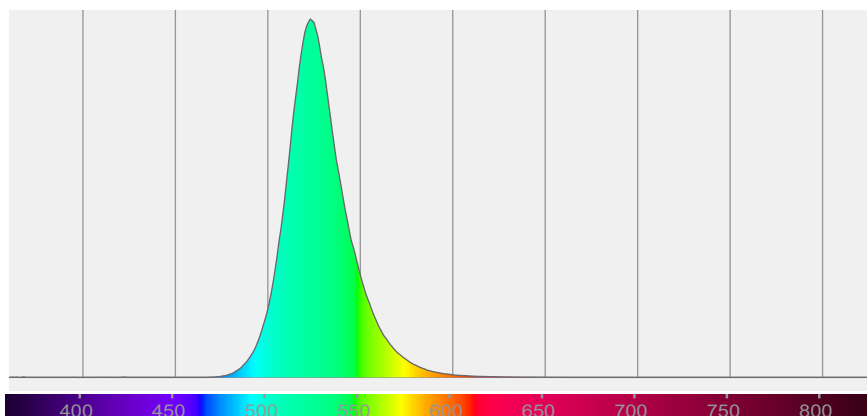


Beam angle 50%: 15,9°

Field angle 10%: 42,5°

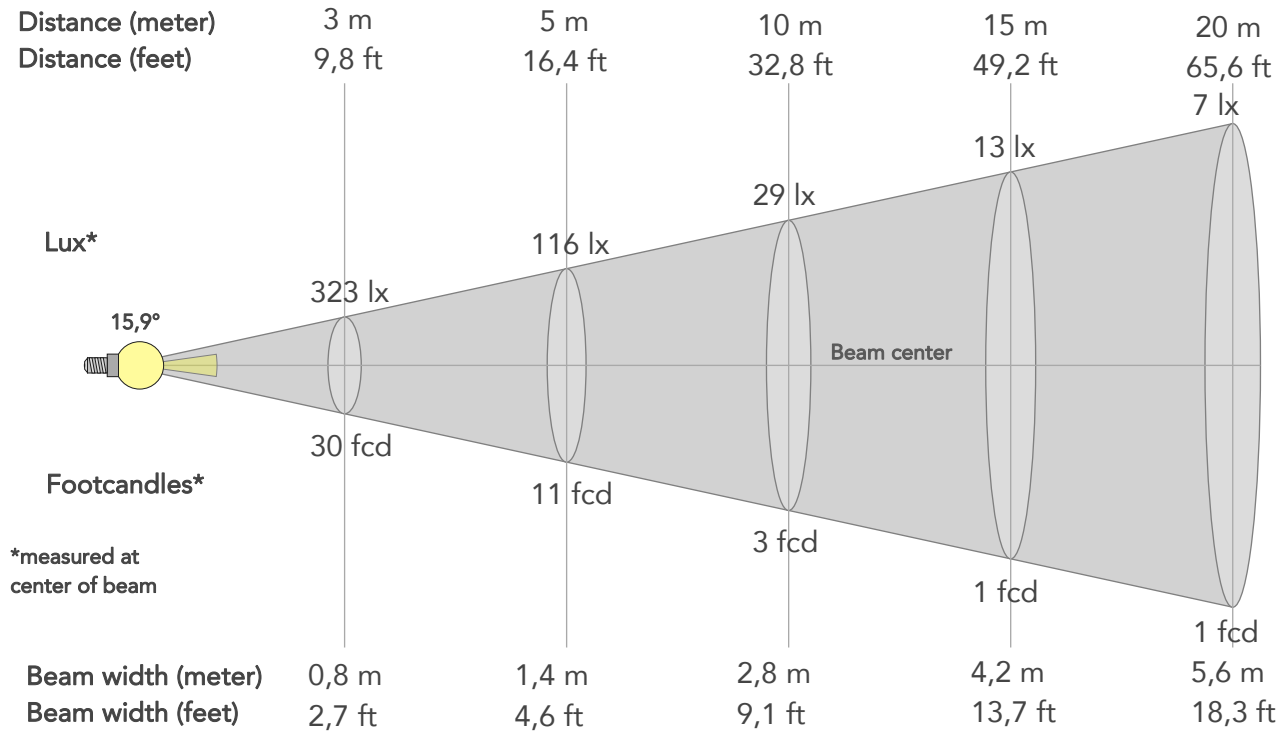
Cut off angle 2.5%: 76,4°

Spectra



BEAM DETAILS

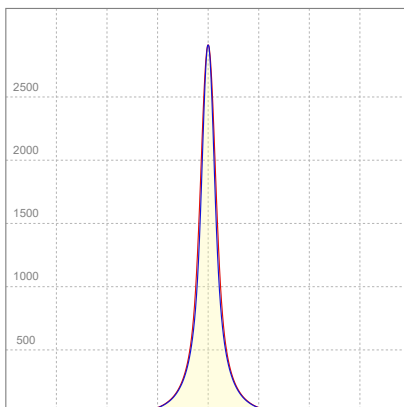
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,9°	42,5°	76,4°	98,8%	92,7%



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	2908lx	727lx	323lx	182lx	116lx	52lx	29lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	270fcd	68fcd	30fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,4m	11,1m	13,9m
Beam wid.	0,9ft	1,8ft	2,7ft	3,7ft	4,6ft	6,9ft	9,1ft	13,7ft	18,3ft	22,9ft	27,4ft	36,6ft	45,7ft

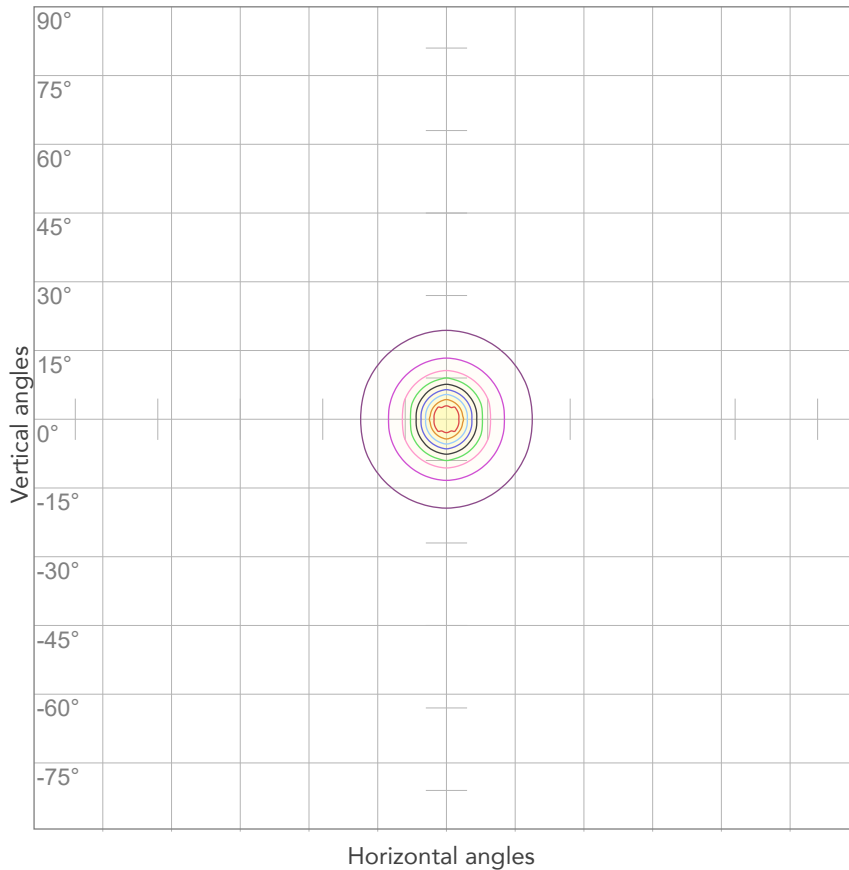
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,076A	12,3W	44lm/W
Power FC			
0,72			

ISO CANDELA DIAGRAM



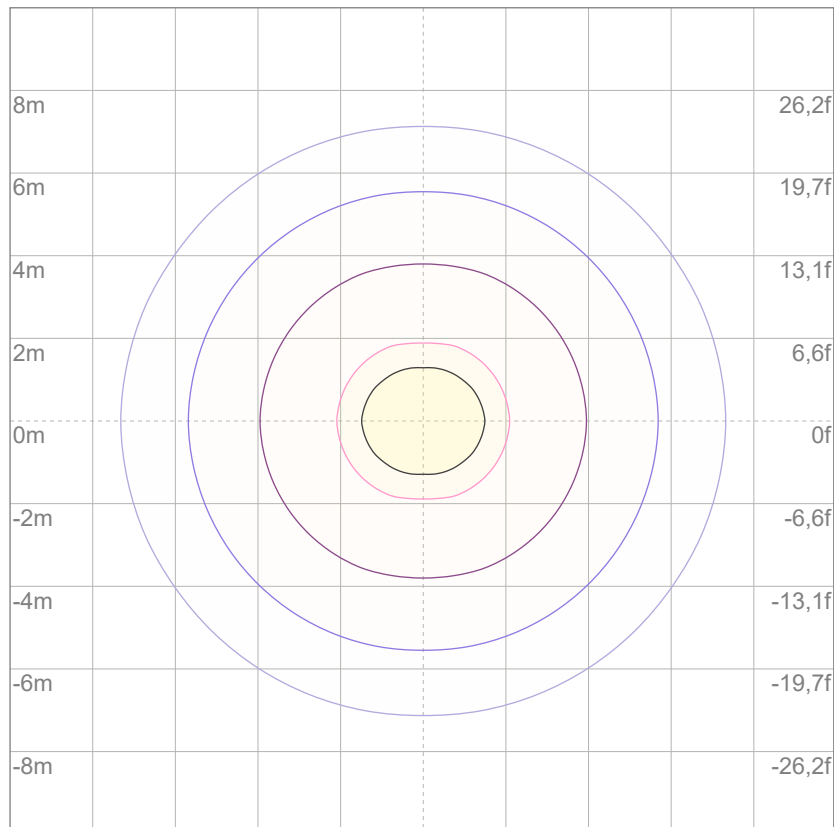
10%	291 cd
20%	582 cd
30%	872 cd
40%	1163 cd
50%	1454 cd
60%	1745 cd
70%	2035 cd
80%	2326 cd

Conditions:

Number of c-planes: 4

Candela at center: 2908 cd

ISO LUX DIAGRAM



3%	0,872 lx
5%	1,45 lx
10%	2,91 lx
30%	8,72 lx
50%	14,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 29,1 lx

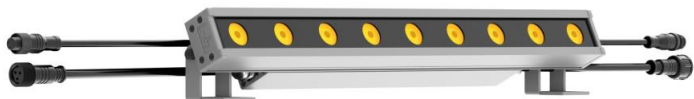
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

507 lm

Peak candela output:

1014 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 20°

Target:

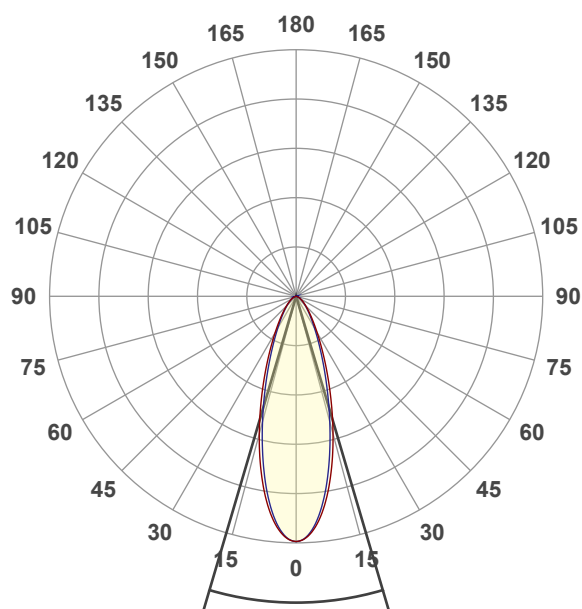
Green

Operator:

Paolo Carvone

Date and time:

11/07/2022 09:46:25

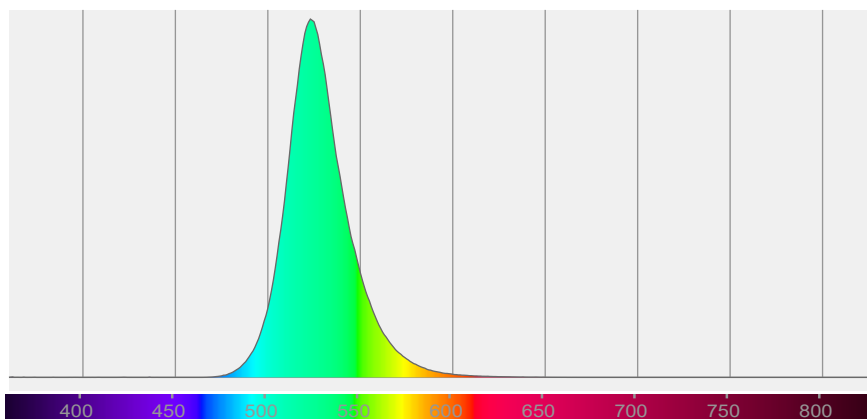


Beam angle 50%: 32,9°

Field angle 10%: 72,2°

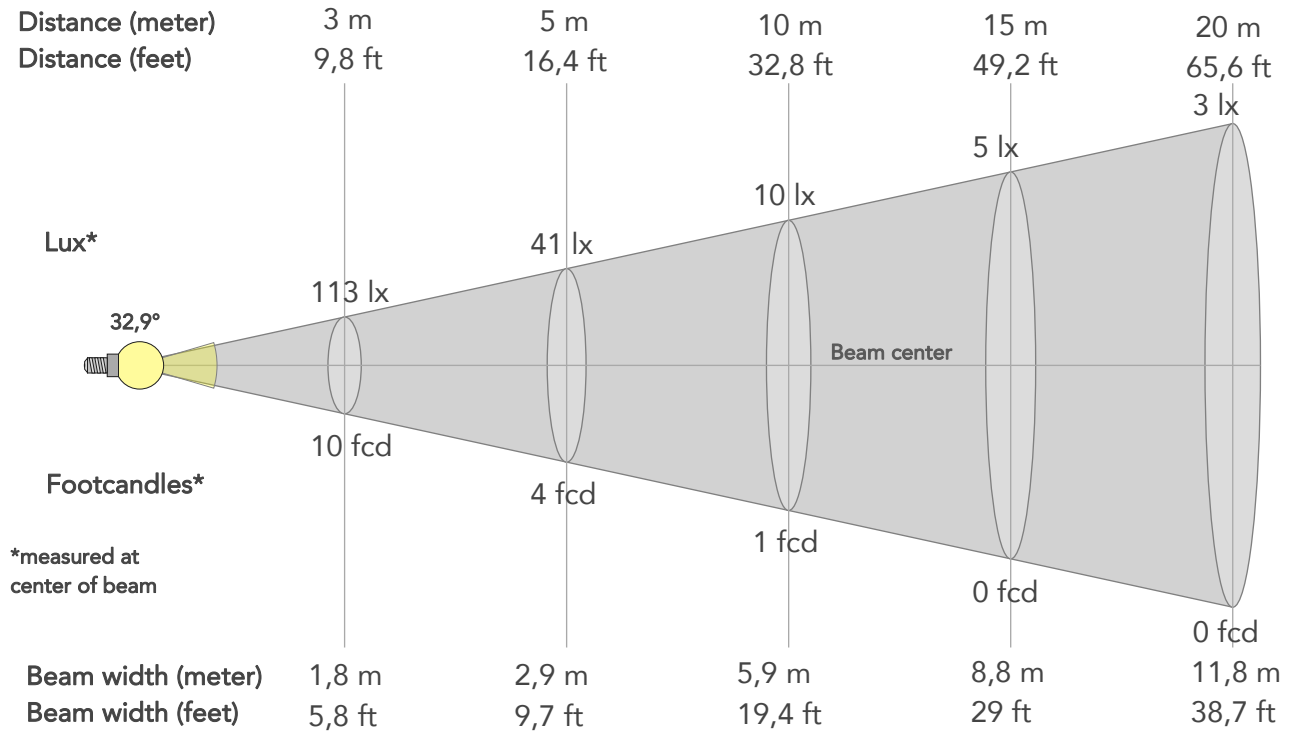
Cut off angle 2.5%: 112,1°

Spectra



BEAM DETAILS

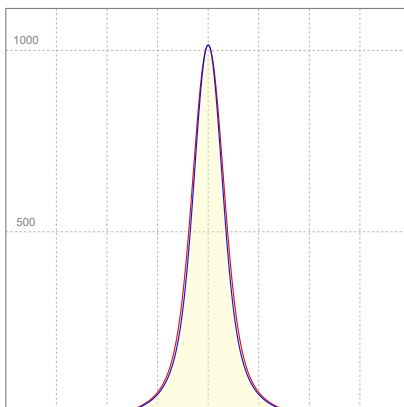
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,9°	72,2°	112,1°	97,2%	88,6%



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	1014lx	254lx	113lx	63lx	41lx	18lx	10lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	94fcd	24fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	2,9m	4,4m	5,9m	8,8m	11,8m	14,7m	17,7m	23,6m	29,5m
Beam wid.	1,9ft	3,9ft	5,8ft	7,7ft	9,7ft	14,5ft	19,4ft	29ft	38,7ft	48,4ft	58,1ft	77,4ft	96,8ft

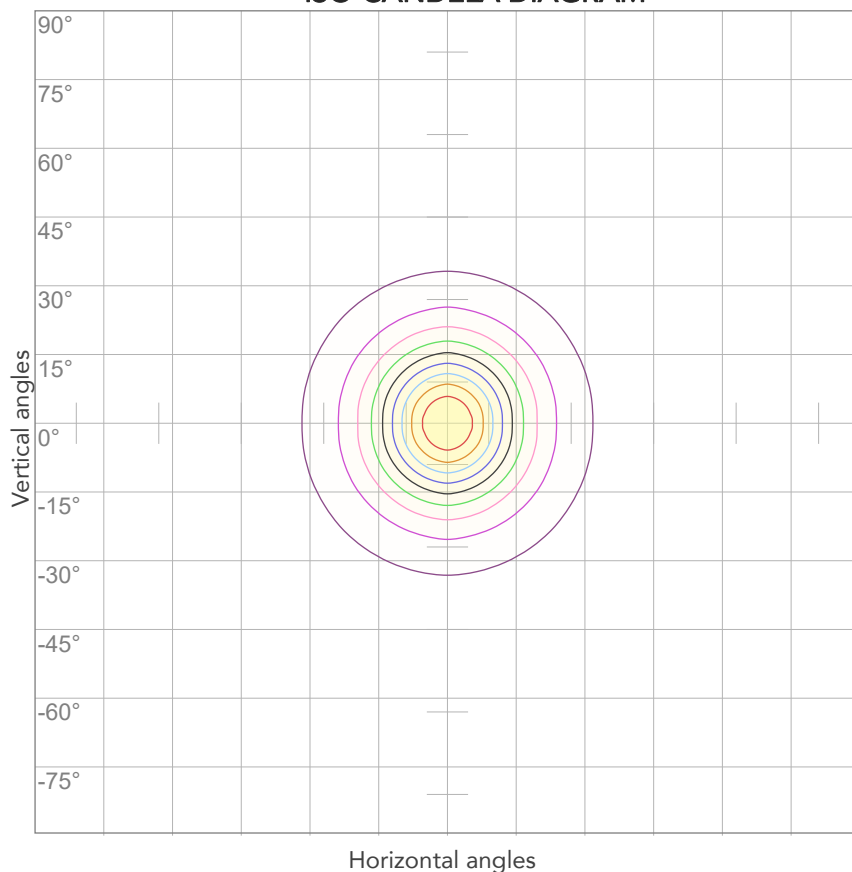
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,076A	12,2W	42lm/W
Power FC			
0,71			

ISO CANDELA DIAGRAM



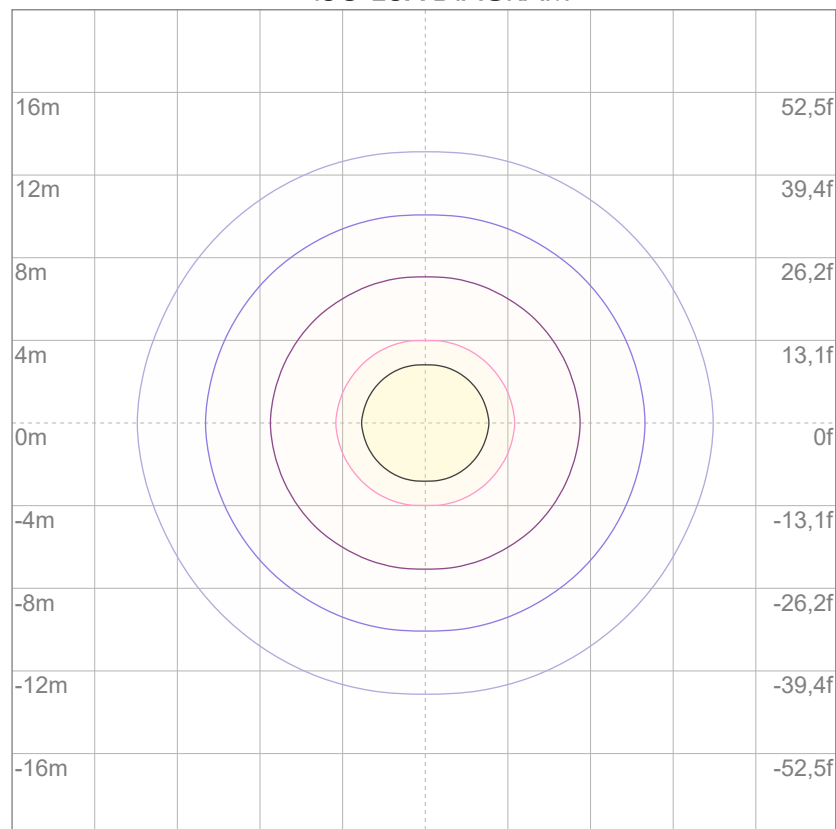
10%	101 cd
20%	203 cd
30%	304 cd
40%	406 cd
50%	507 cd
60%	609 cd
70%	710 cd
80%	811 cd

Conditions:

Number of c-planes: 4

Candela at center: 1014 cd

ISO LUX DIAGRAM



3%	0,304 lx
5%	0,507 lx
10%	1,01 lx
30%	3,04 lx
50%	5,07 lx

Conditions:

Number of c-planes: 4

Lux at center: 10,1 lx

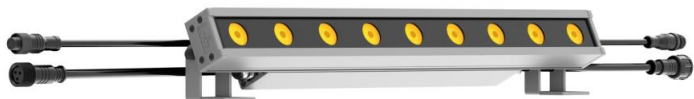
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

492 lm

Peak candela output:

361 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 60°

Target:

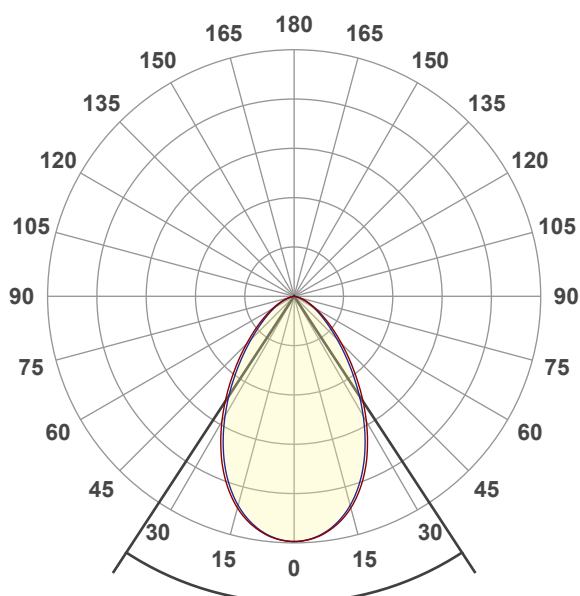
Green

Operator:

Paolo Carvone

Date and time:

11/07/2022 10:29:20

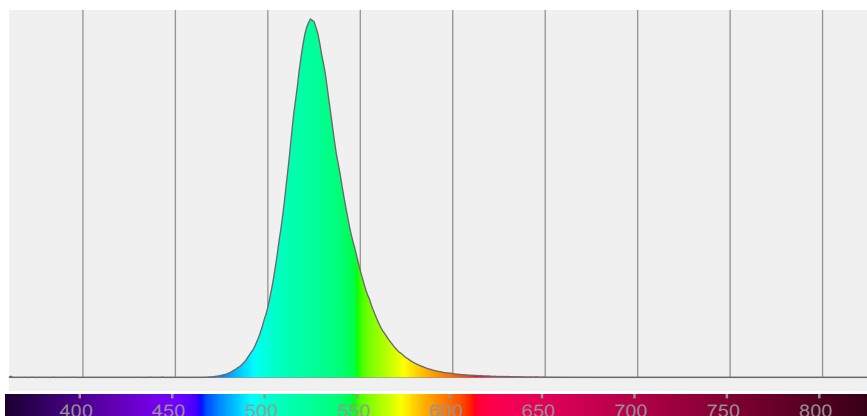


Beam angle 50%: 66,5°

Field angle 10%: 119,3°

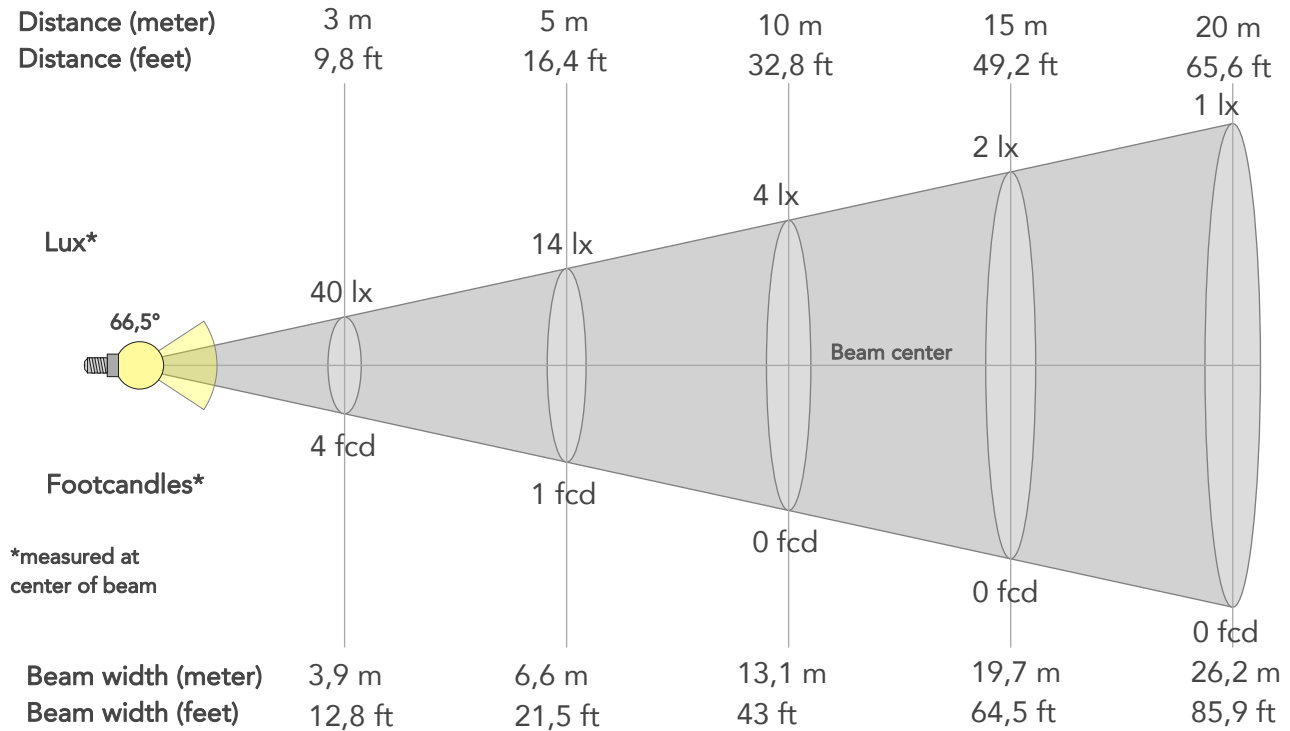
Cut off angle 2.5%: 146,7°

Spectra



BEAM DETAILS

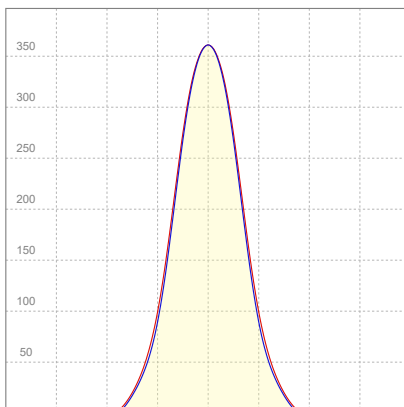
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
66,5°	119,3°	146,7°	93,4%	77,6%



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	361lx	90lx	40lx	23lx	14lx	6lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	34fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,9m	5,2m	6,6m	9,8m	13,1m	19,7m	26,2m	32,8m	39,3m	52,4m	65,5m
Beam wid.	4,3ft	8,6ft	12,8ft	17,2ft	21,5ft	32,2ft	43ft	64,5ft	85,9ft	107,4ft	128,9ft	171,9ft	214,9ft

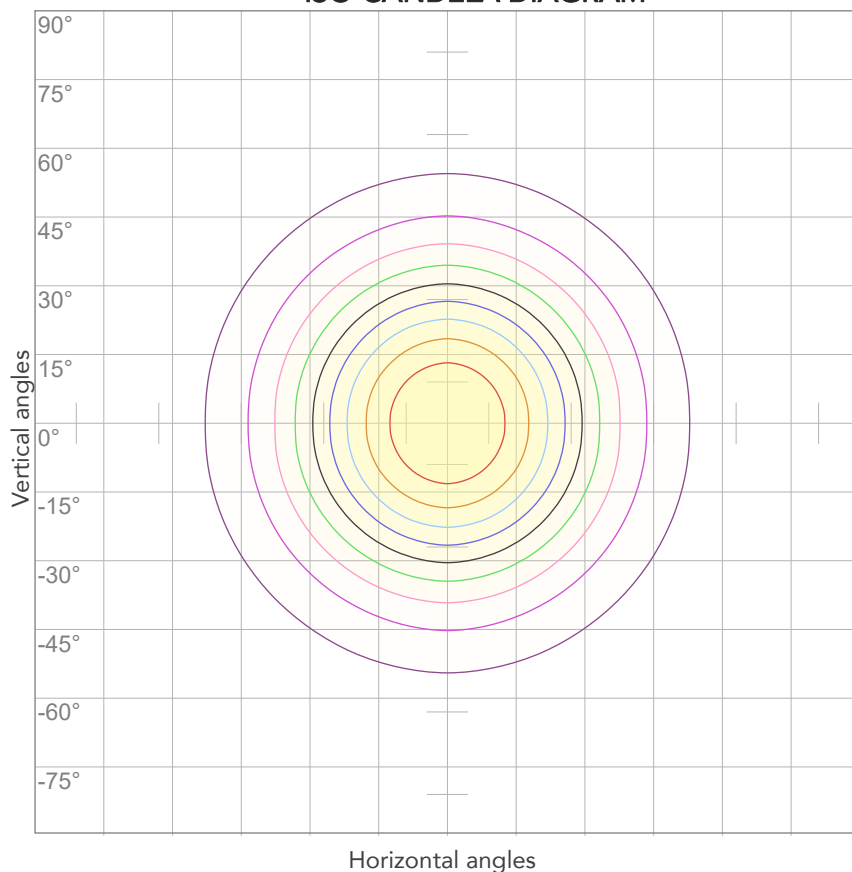
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,069A	11,2W	44lm/W
Power FC			
0,71			

ISO CANDELA DIAGRAM



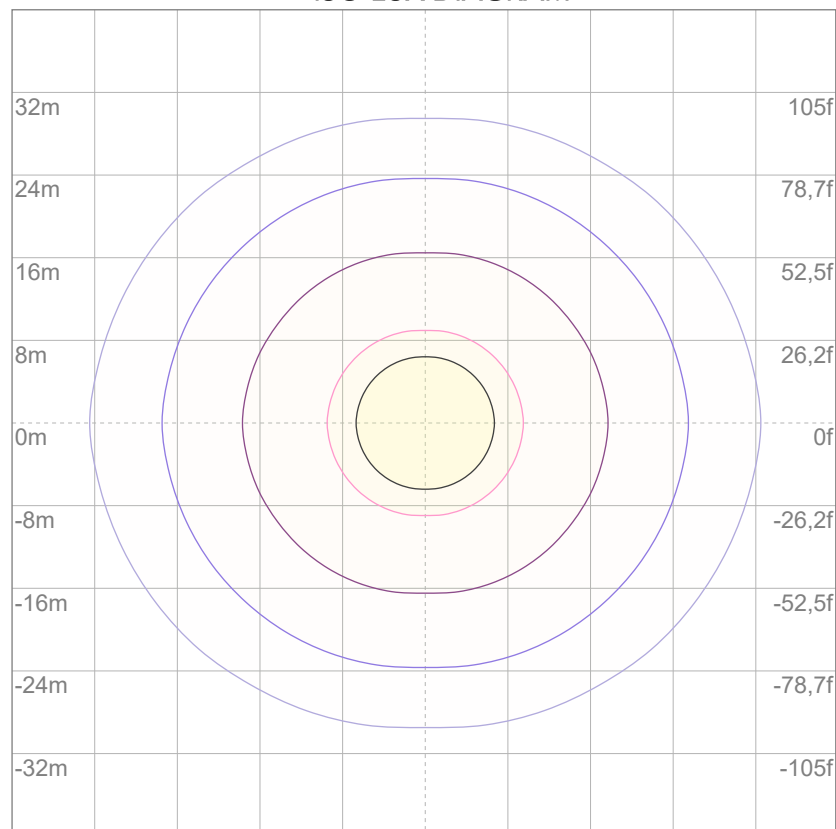
10%	36 cd
20%	72 cd
30%	108 cd
40%	144 cd
50%	180 cd
60%	216 cd
70%	253 cd
80%	289 cd

Conditions:

Number of c-planes: 4

Candela at center: 361 cd

ISO LUX DIAGRAM



3%	0,108 lx
5%	0,180 lx
10%	0,361 lx
30%	1,08 lx
50%	1,80 lx

Conditions:

Number of c-planes: 4

Lux at center: 3,61 lx

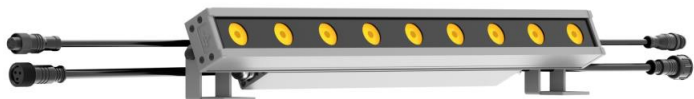
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

593 lm

Peak candela output:

712 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 10°x 60°

Target:

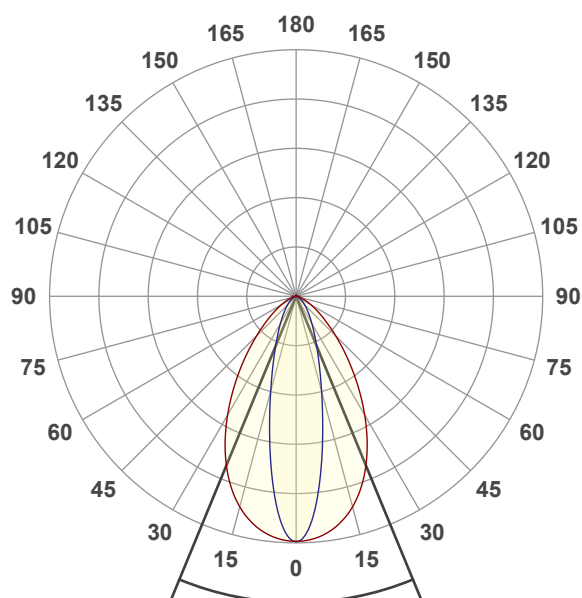
Green

Operator:

Paolo Carvone

Date and time:

11/07/2022 10:56:34

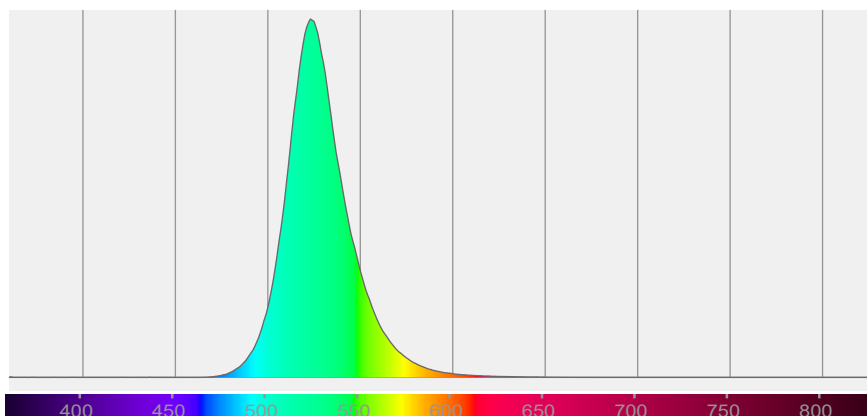


Beam angle 50%: 44,8°

Field angle 10%: 89,6°

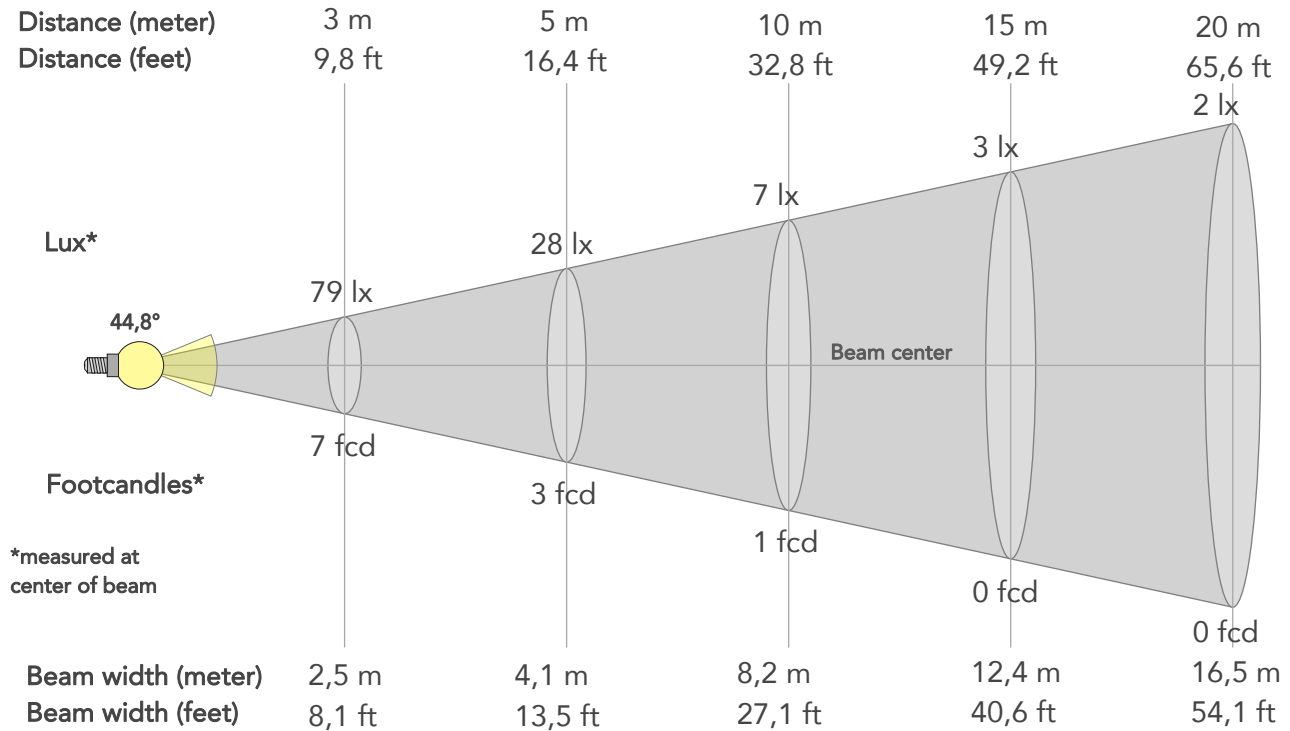
Cut off angle 2.5%: 125,7°

Spectra



BEAM DETAILS

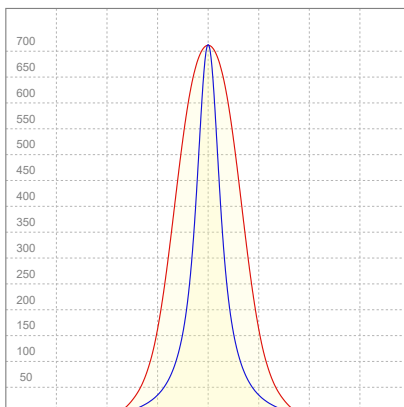
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
44,8°	89,6°	125,7°	95,5%	82,7%



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	711lx	178lx	79lx	44lx	28lx	13lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	66fcd	17fcd	7fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,6m	2,5m	3,3m	4,1m	6,2m	8,2m	12,4m	16,5m	20,6m	24,7m	33m	41,2m
Beam wid.	2,7ft	5,4ft	8,1ft	10,8ft	13,5ft	20,3ft	27,1ft	40,6ft	54,1ft	67,6ft	81,2ft	108,2ft	135,3ft

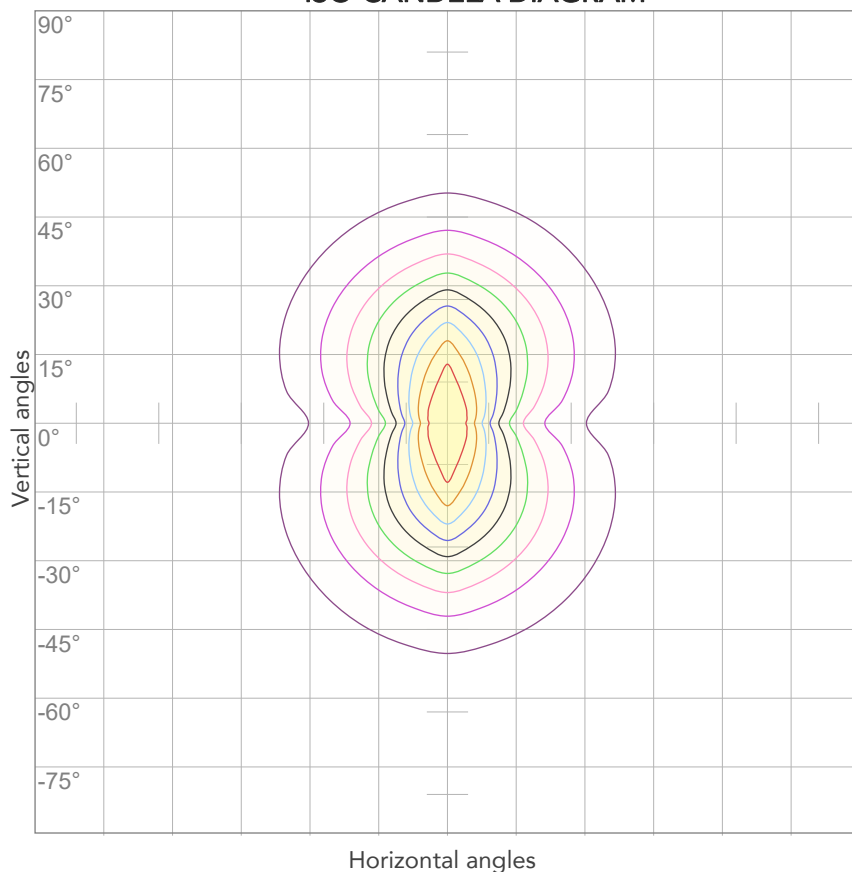
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,075A	12,1W	49lm/W
Power FC			
0,71			

ISO CANDELA DIAGRAM



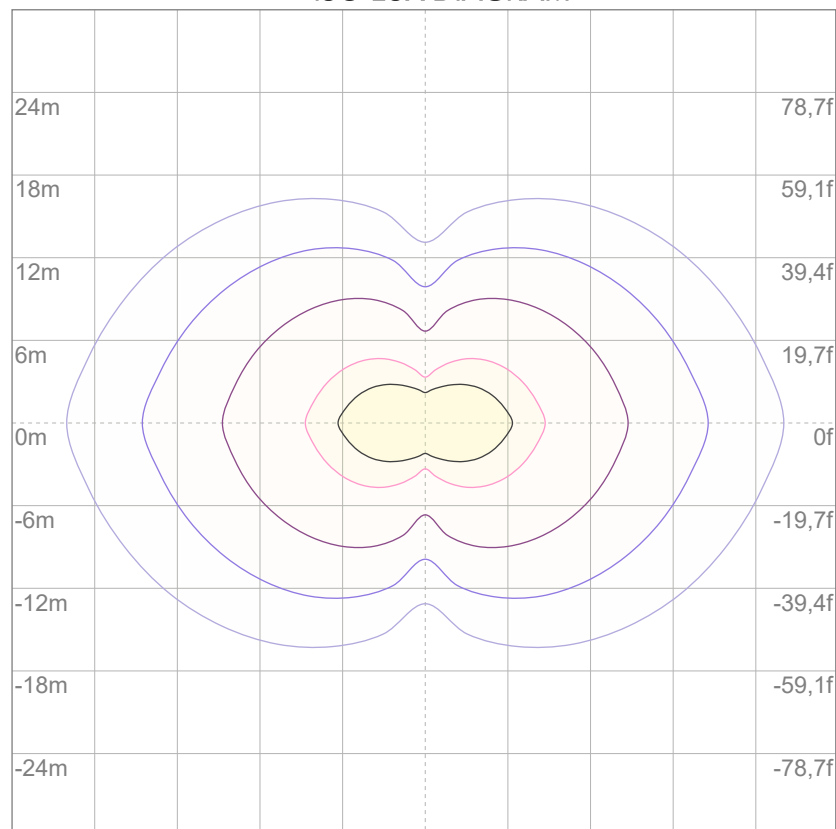
10%	71 cd
20%	142 cd
30%	213 cd
40%	285 cd
50%	356 cd
60%	427 cd
70%	498 cd
80%	569 cd

Conditions:

Number of c-planes: 4

Candela at center: 711 cd

ISO LUX DIAGRAM



3%	0,213 lx
5%	0,356 lx
10%	0,711 lx
30%	2,13 lx
50%	3,56 lx

Conditions:

Number of c-planes: 4

Lux at center: 7,11 lx

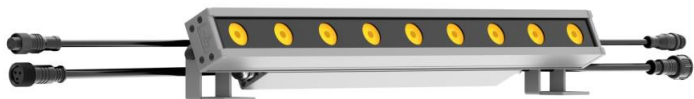
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

524 lm

Peak candela output:

454 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 30°x60°

Target:

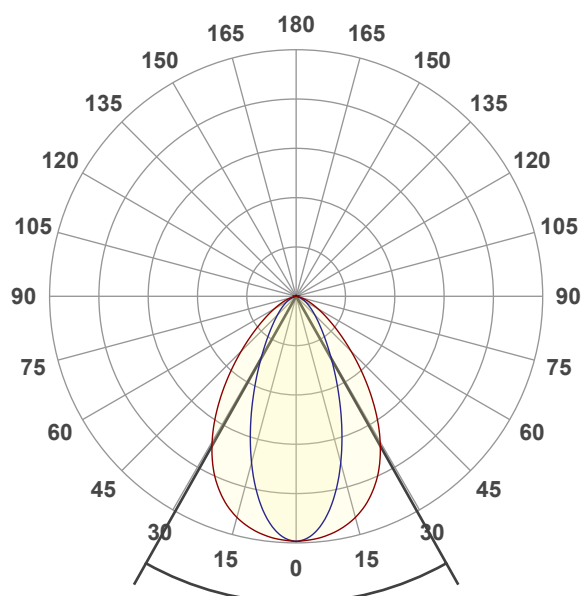
Green

Operator:

Paolo Carvone

Date and time:

11/07/2022 11:15:15

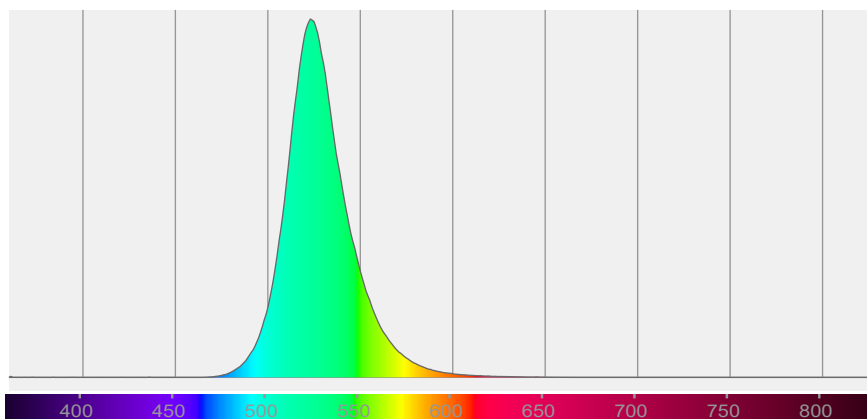


Beam angle 50%: 58,7°

Field angle 10%: 106,9°

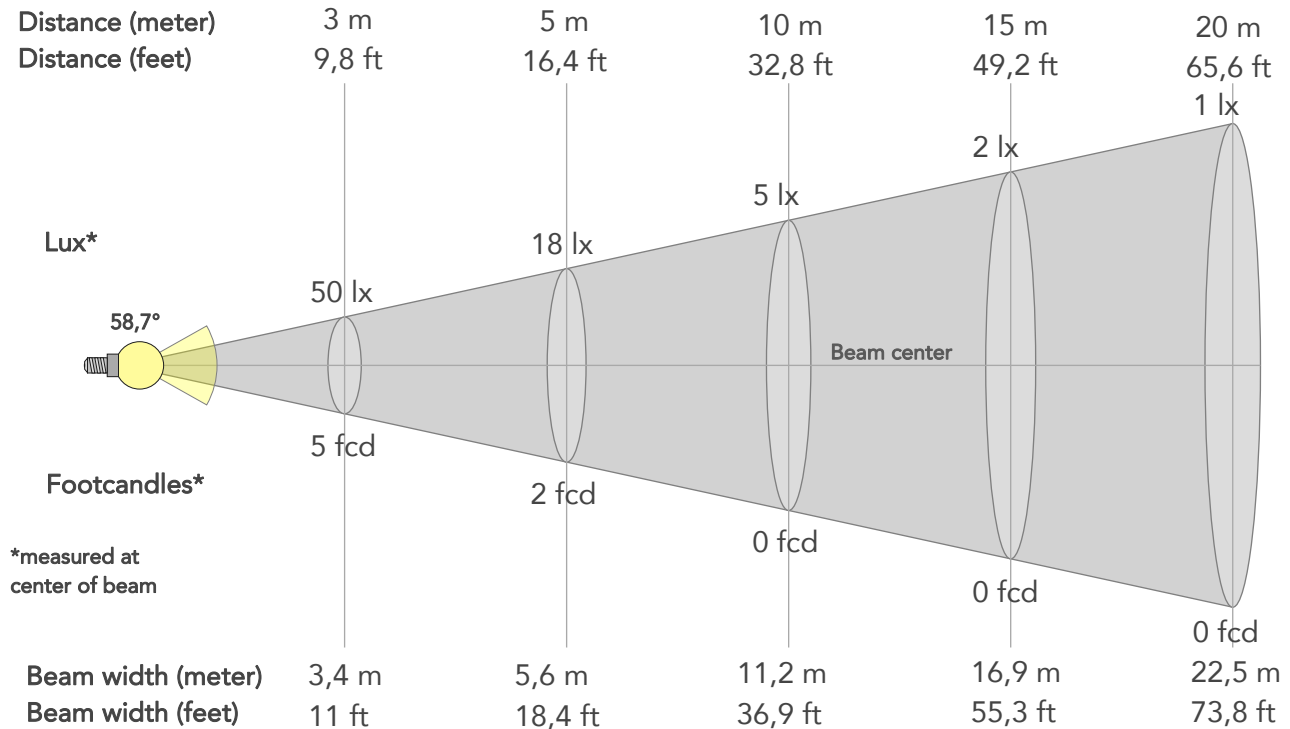
Cut off angle 2.5%: 140,3°

Spectra



BEAM DETAILS

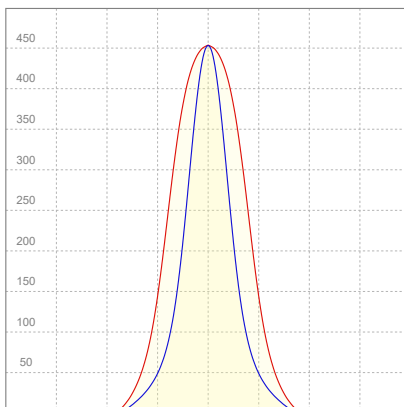
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58,7°	106,9°	140,3°	94,4%	79,6%



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	453lx	113lx	50lx	28lx	18lx	8lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	42fcd	11fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,4m	4,5m	5,6m	8,4m	11,2m	16,9m	22,5m	28,1m	33,7m	45m	56,2m
Beam wid.	3,7ft	7,4ft	11ft	14,7ft	18,4ft	27,7ft	36,9ft	55,3ft	73,8ft	92,2ft	110,7ft	147,6ft	184,5ft

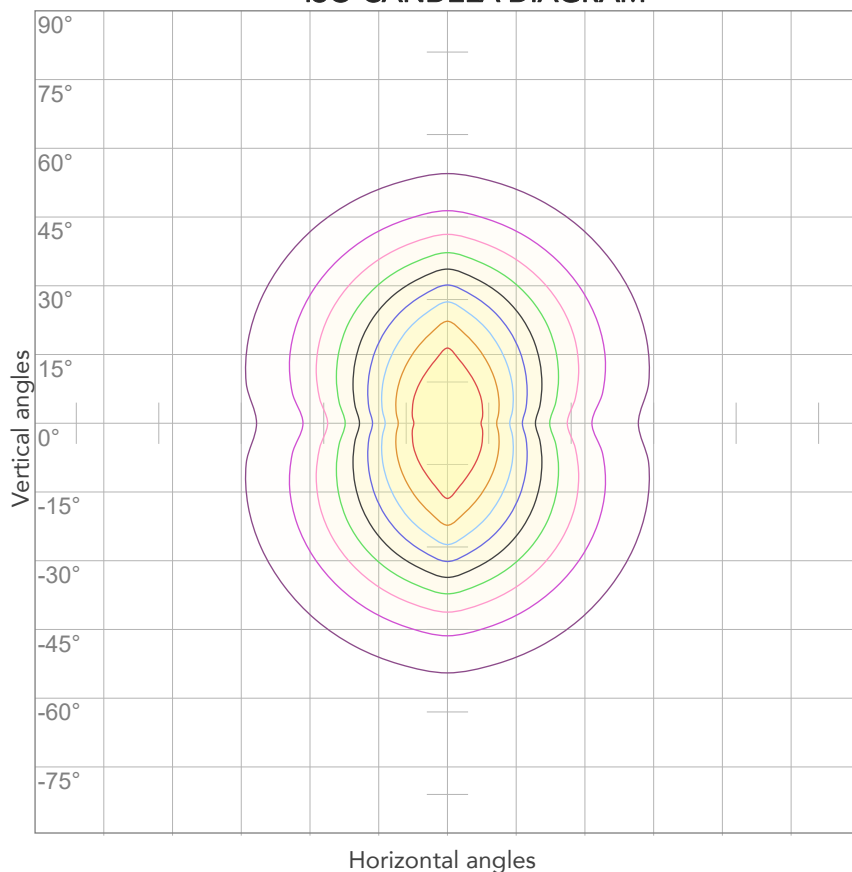
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,076A	12,2W	43lm/W
Power FC			
0,71			

ISO CANDELA DIAGRAM



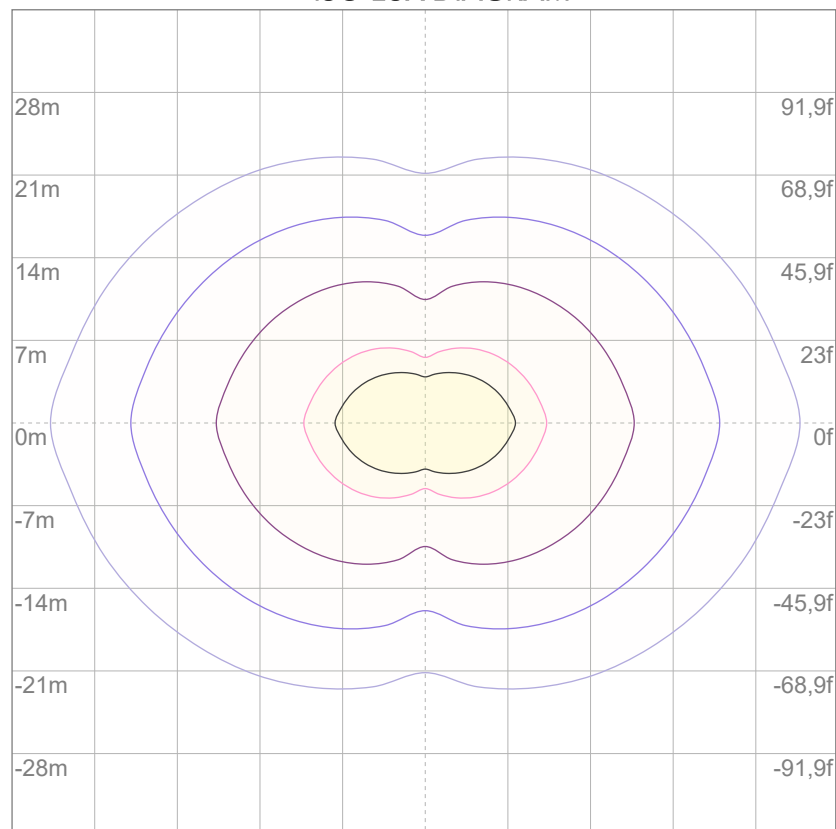
10%	45 cd
20%	91 cd
30%	136 cd
40%	181 cd
50%	227 cd
60%	272 cd
70%	317 cd
80%	363 cd

Conditions:

Number of c-planes: 4

Candela at center: 453 cd

ISO LUX DIAGRAM



3%	0,136 lx
5%	0,227 lx
10%	0,453 lx
30%	1,36 lx
50%	2,27 lx

Conditions:

Number of c-planes: 4

Lux at center: 4,53 lx

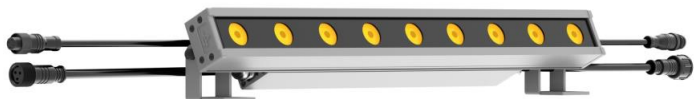
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

125 lm

Peak candela output:

765 cd



PRODUCT NAME:

ARCSHINES9FC

MEASUREMENT CONDITIONS:

Beam angle:

15°

Target:

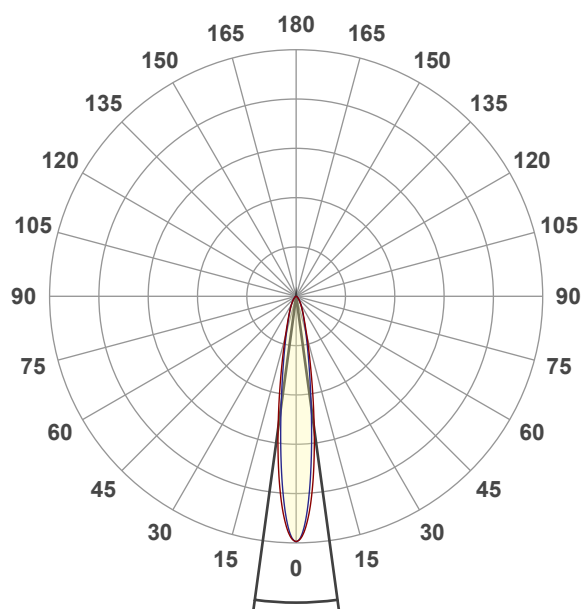
Blue

Operator:

Paolo Carvone

Date and time:

11/07/2022 09:28:34

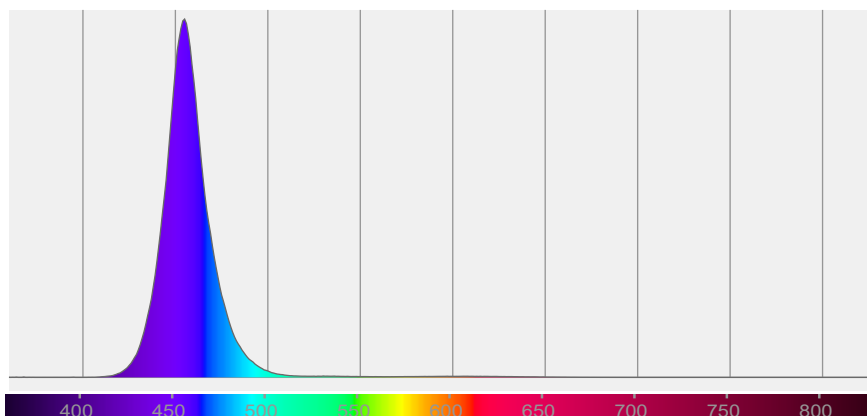


Beam angle 50%: 15,5°

Field angle 10%: 37,6°

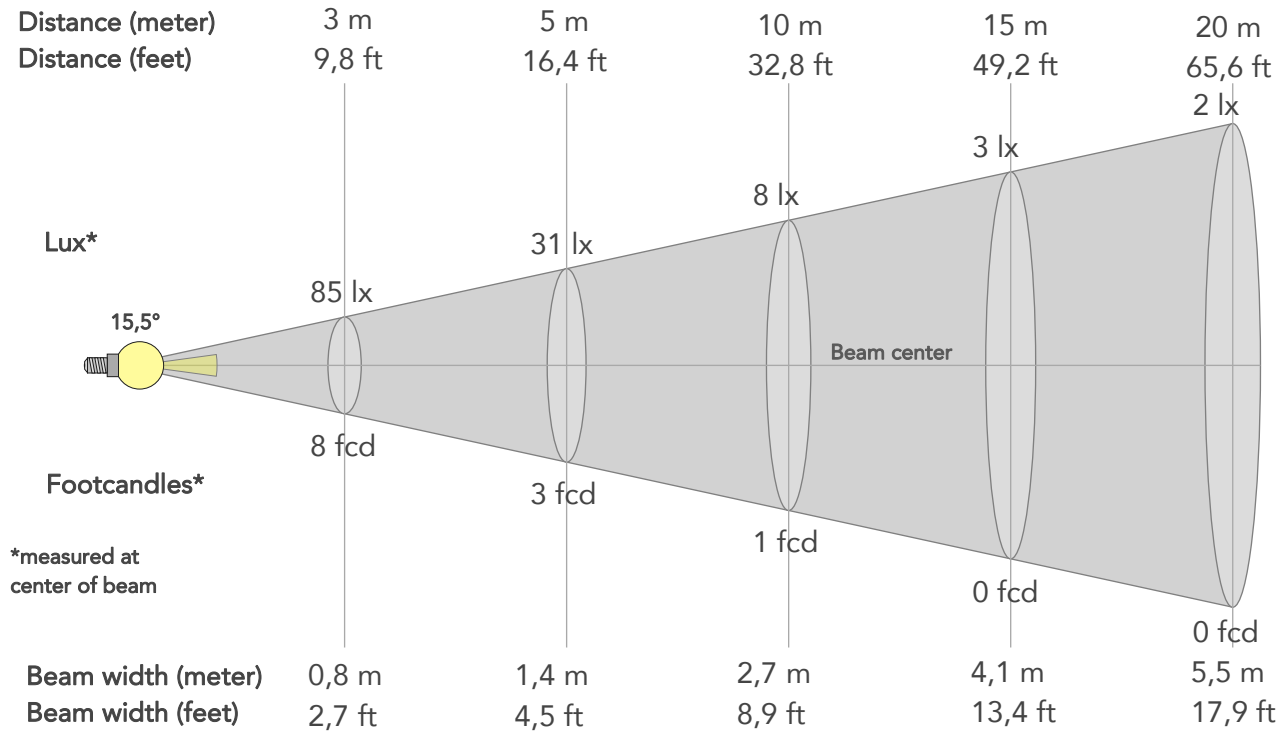
Cut off angle 2.5%: 70,1°

Spectra



BEAM DETAILS

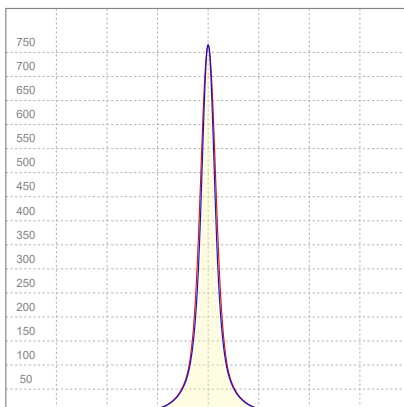
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,5°	37,6°	70,1°	98,6%	92,9%



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	765lx	191lx	85lx	48lx	31lx	14lx	8lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	71fcd	18fcd	8fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,5m	6,8m	8,2m	10,9m	13,6m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	8,9ft	13,4ft	17,9ft	22,3ft	26,8ft	35,8ft	44,7ft

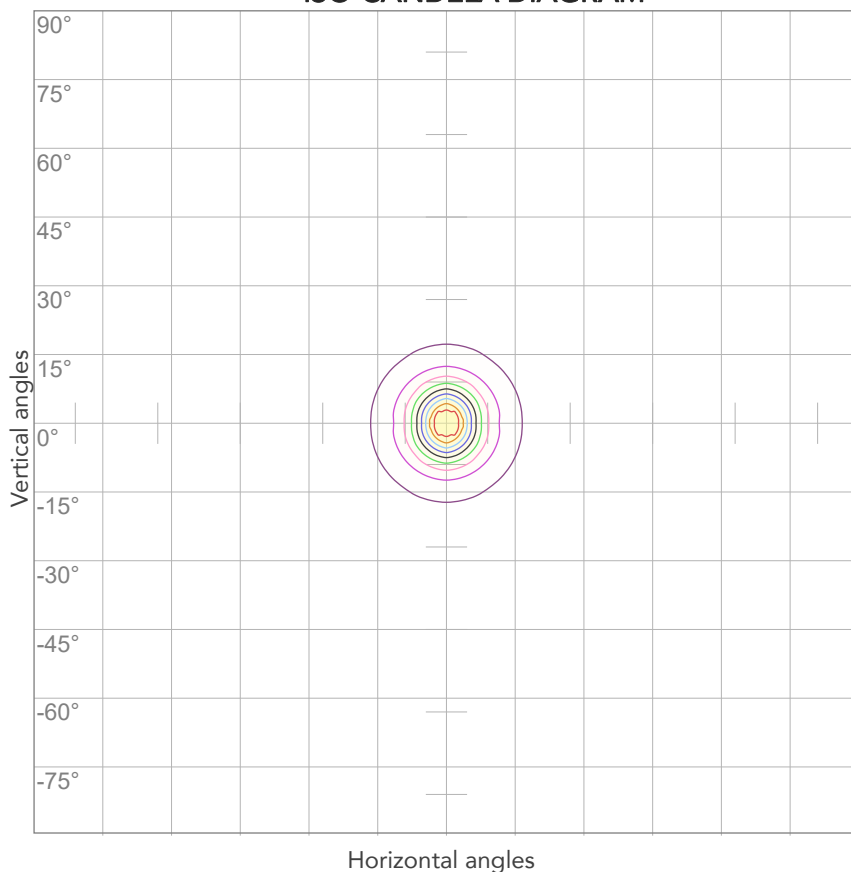
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,077A	12,4W	10lm/W
Power FC			
0,72			

ISO CANDELA DIAGRAM



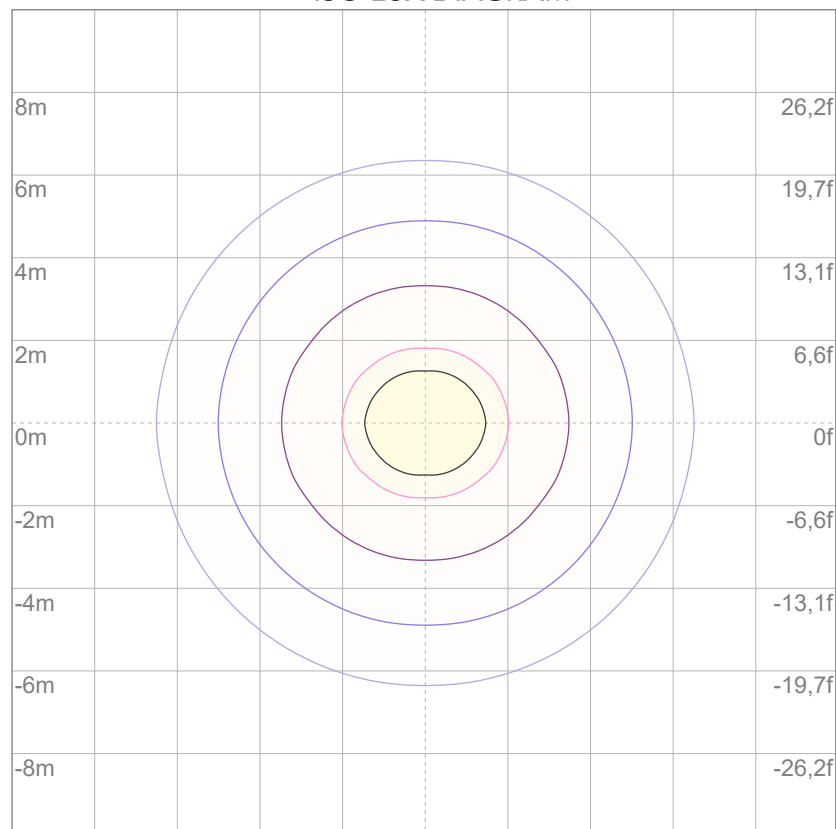
10%	76 cd
20%	153 cd
30%	229 cd
40%	306 cd
50%	382 cd
60%	459 cd
70%	535 cd
80%	612 cd

Conditions:

Number of c-planes: 4

Candela at center: 765 cd

ISO LUX DIAGRAM



3%	0,229 lx
5%	0,382 lx
10%	0,765 lx
30%	2,29 lx
50%	3,82 lx

Conditions:

Number of c-planes: 4

Lux at center: 7,65 lx

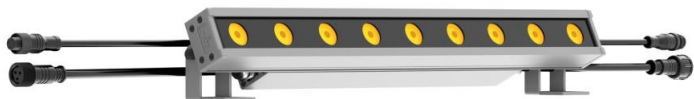
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

120 lm

Peak candela output:

266 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 20°

Target:

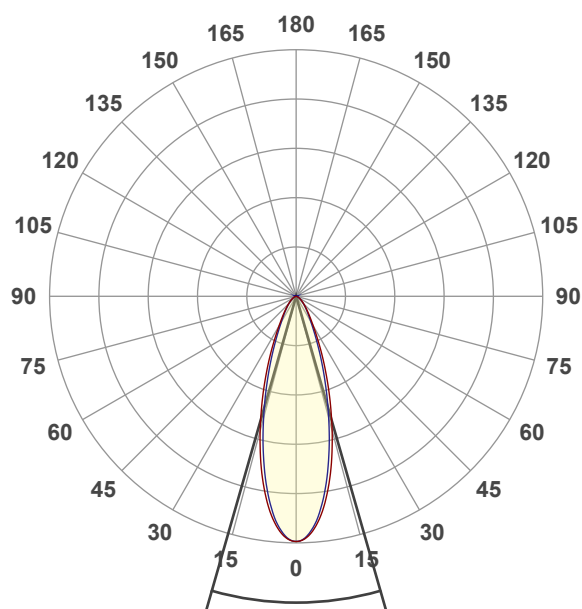
Blue

Operator:

Paolo Carvone

Date and time:

11/07/2022 09:49:00

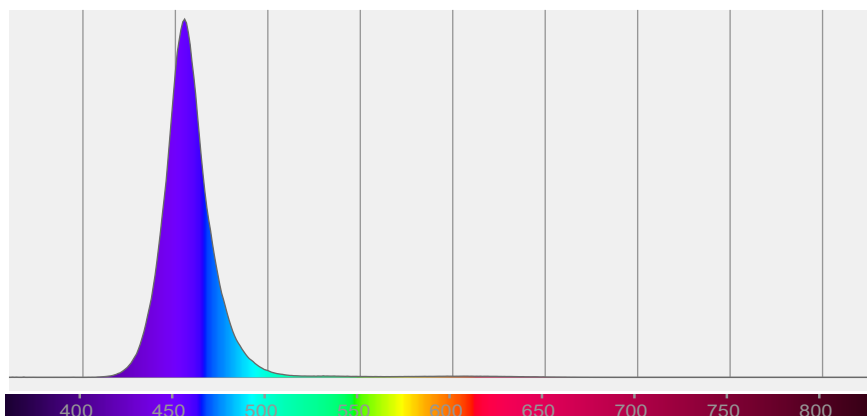


Beam angle 50%: 32°

Field angle 10%: 66,2°

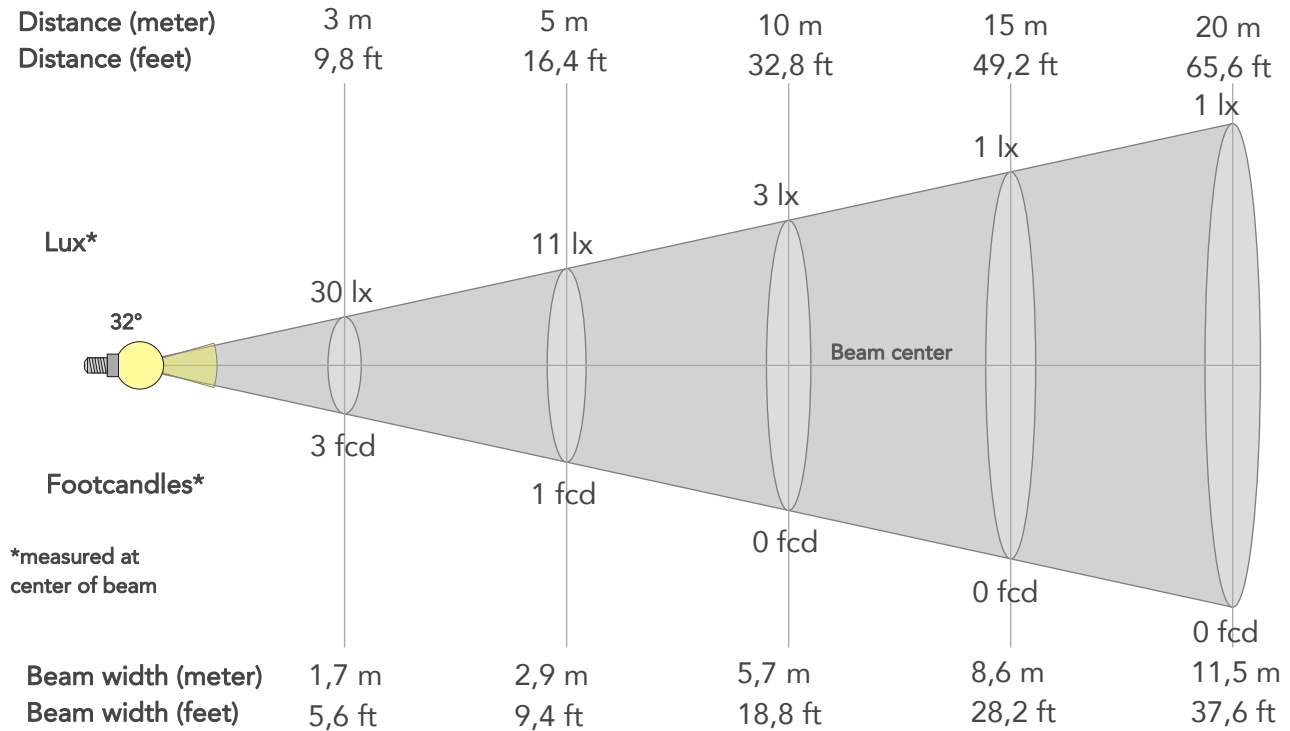
Cut off angle 2.5%: 105,3°

Spectra



BEAM DETAILS

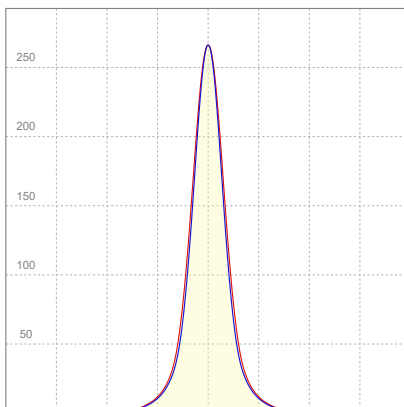
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32°	66,2°	105,3°	97,4%	89,9%



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	266lx	66lx	30lx	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.	0,6m	1,1m	1,7m	2,3m	2,9m	4,3m	5,7m	8,6m	11,5m	14,3m	17,2m	22,9m	28,6m
Beam wid.	1,9ft	3,8ft	5,6ft	7,5ft	9,4ft	14,1ft	18,8ft	28,2ft	37,6ft	47ft	56,3ft	75,1ft	93,9ft

LINEAR DISTRIBUTION DIAGRAM

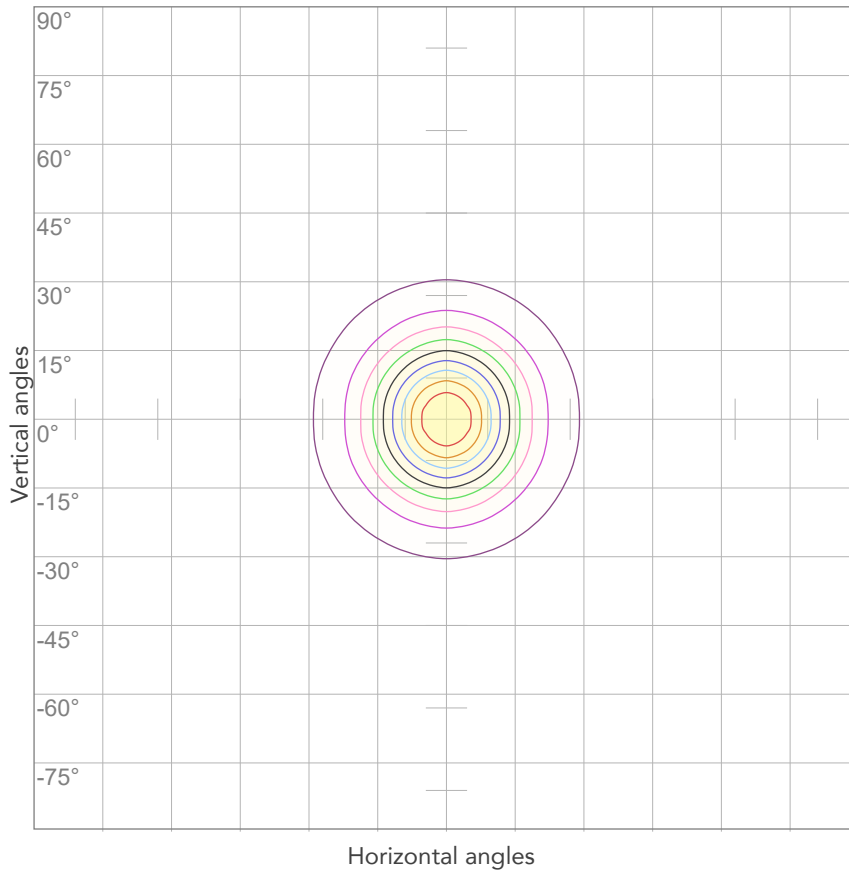


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,076A	12,4W	10lm/W

Power FC
0,71

ISO CANDELA DIAGRAM



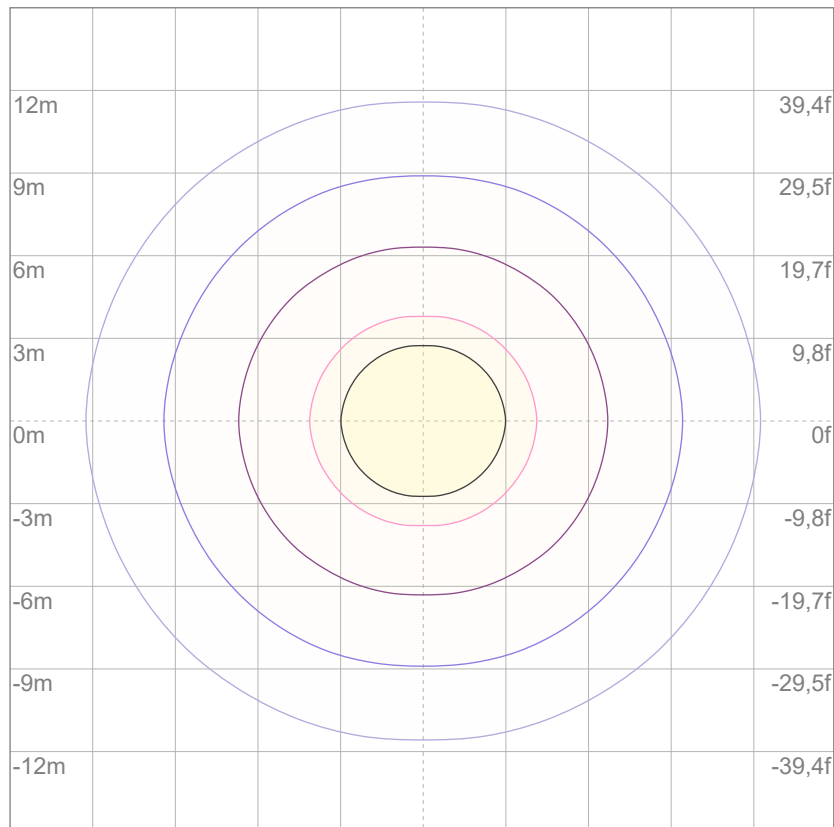
10%	27 cd
20%	53 cd
30%	80 cd
40%	106 cd
50%	133 cd
60%	160 cd
70%	186 cd
80%	213 cd

Conditions:

Number of c-planes: 4

Candela at center: 266 cd

ISO LUX DIAGRAM



3%	79,8m lx
5%	0,133 lx
10%	0,266 lx
30%	0,798 lx
50%	1,33 lx

Conditions:

Number of c-planes: 4

Lux at center: 2,66 lx

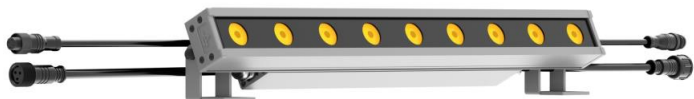
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

122 lm

Peak candela output:

95,1 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 60°

Target:

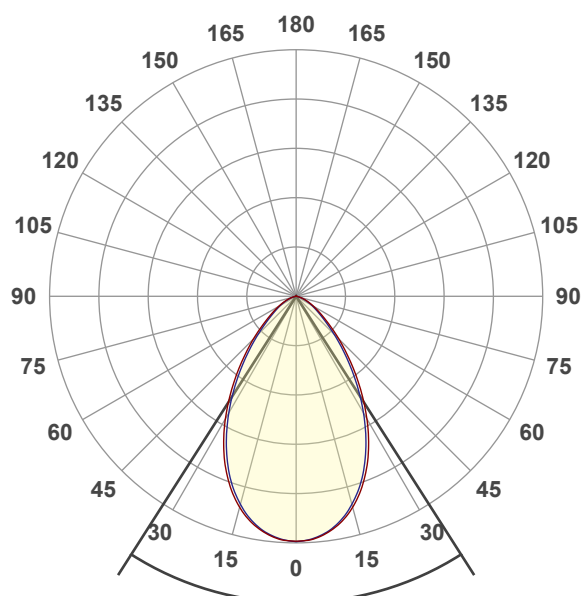
Blue

Operator:

Paolo Carvone

Date and time:

11/07/2022 10:31:26

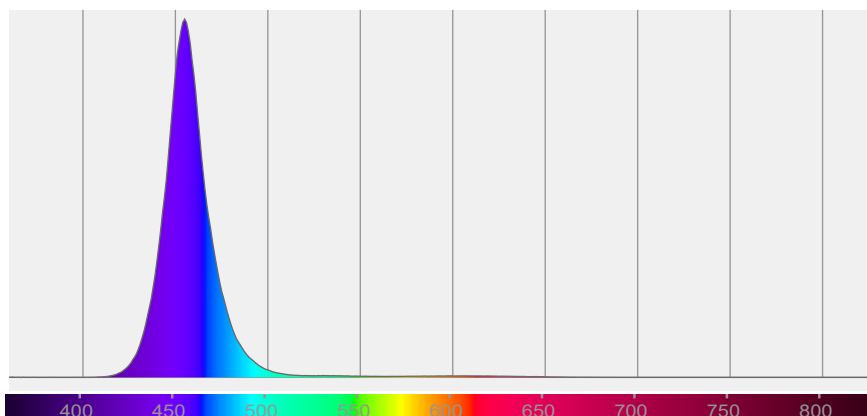


Beam angle 50%: 65,1°

Field angle 10%: 113,1°

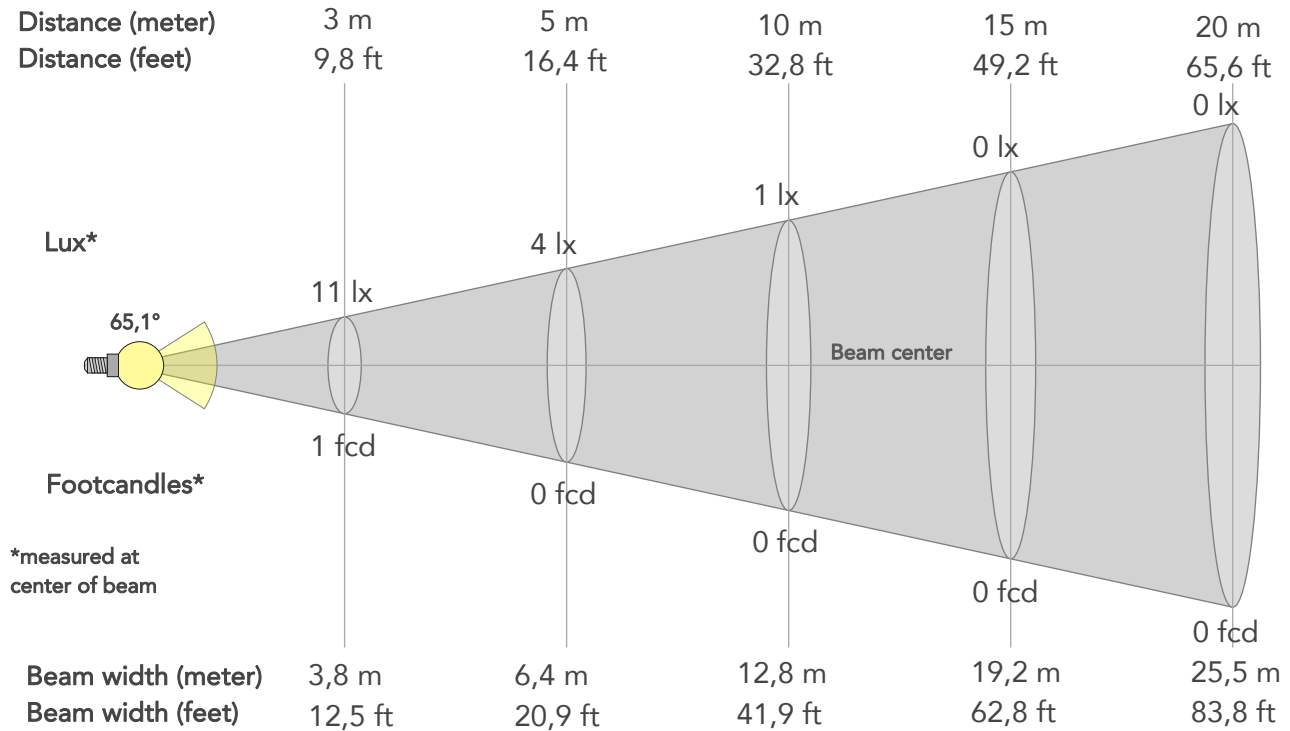
Cut off angle 2.5%: 143,4°

Spectra



BEAM DETAILS

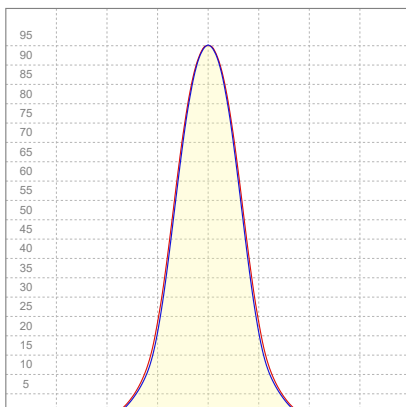
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65,1°	113,1°	143,4°	94,4%	80,4%



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	95lx	24lx	11lx	6lx	4lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
Footcand.	9fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,8m	5,1m	6,4m	9,6m	12,8m	19,2m	25,5m	31,9m	38,3m	51,1m	63,9m
Beam wid.	4,2ft	8,4ft	12,5ft	16,7ft	20,9ft	31,4ft	41,9ft	62,8ft	83,8ft	104,7ft	125,7ft	167,6ft	209,5ft

LINEAR DISTRIBUTION DIAGRAM

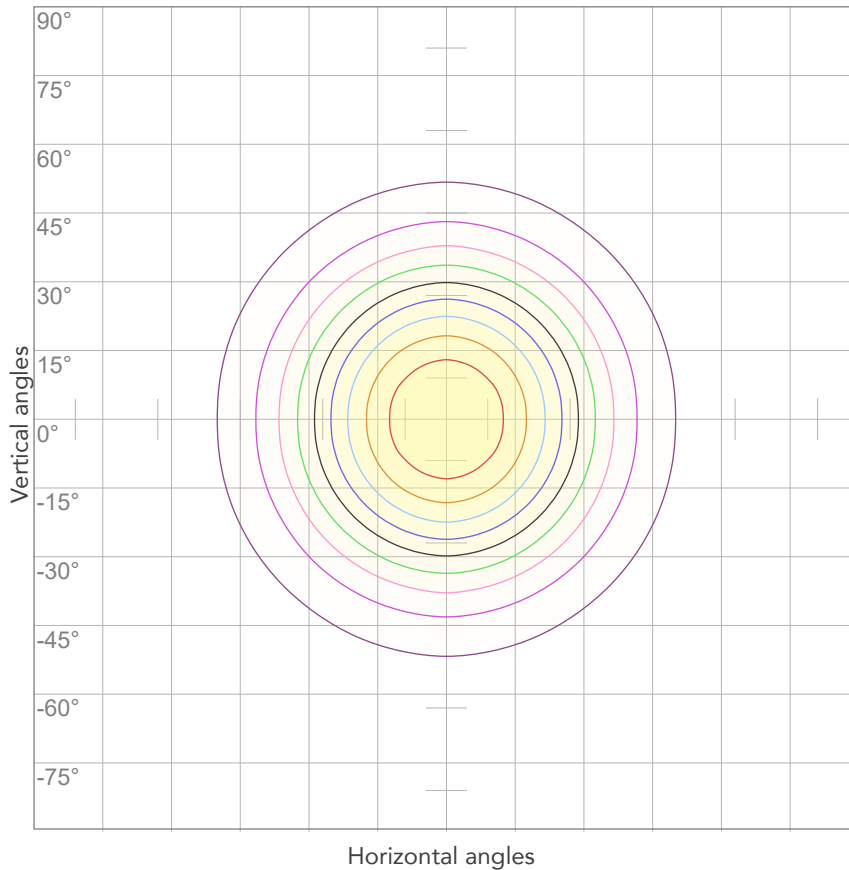


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,076A	12,3W	10lm/W

Power FC
0,72

ISO CANDELA DIAGRAM



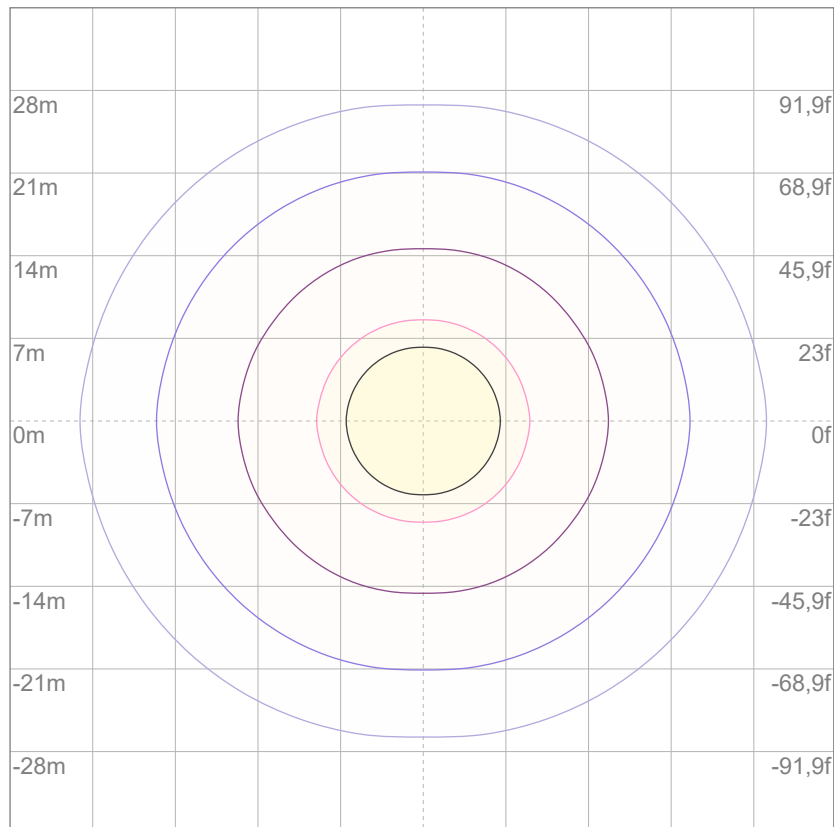
10%	10 cd
20%	19 cd
30%	29 cd
40%	38 cd
50%	48 cd
60%	57 cd
70%	67 cd
80%	76 cd

Conditions:

Number of c-planes: 4

Candela at center: 95 cd

ISO LUX DIAGRAM



3%	28,5m lx
5%	47,5m lx
10%	95,1m lx
30%	0,285 lx
50%	0,475 lx

Conditions:

Number of c-planes: 4

Lux at center: 0,951 lx

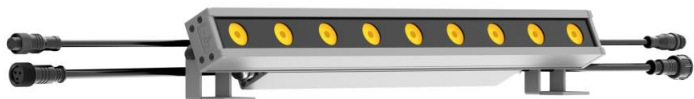
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

138 lm

Peak candela output:

183 cd



PRODUCT NAME:

ARCSHINES9FC

MEASUREMENT CONDITIONS:

Beam angle:

15° + Filter 10°x 60°

Target:

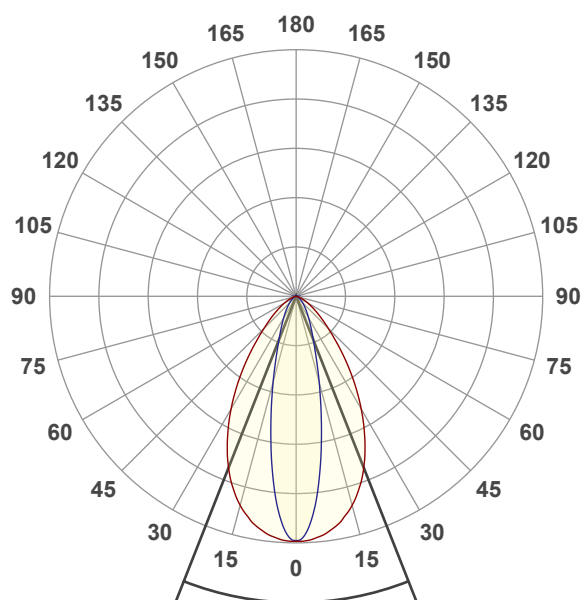
Blue

Operator:

Paolo Carvone

Date and time:

11/07/2022 11:02:07

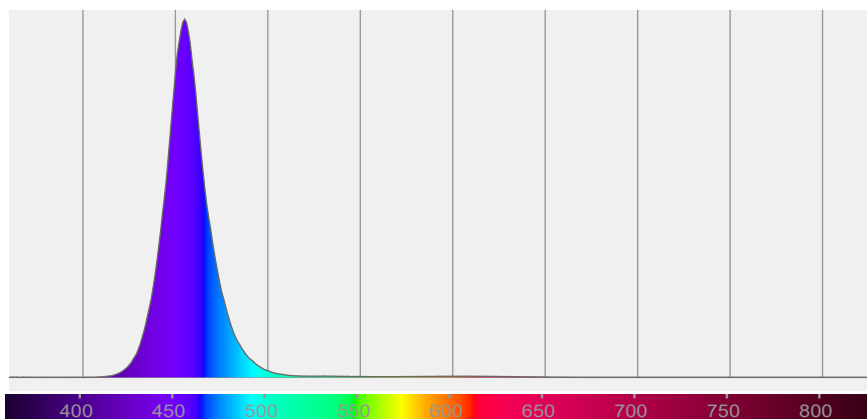


Beam angle 50%: 43°

Field angle 10%: 83,4°

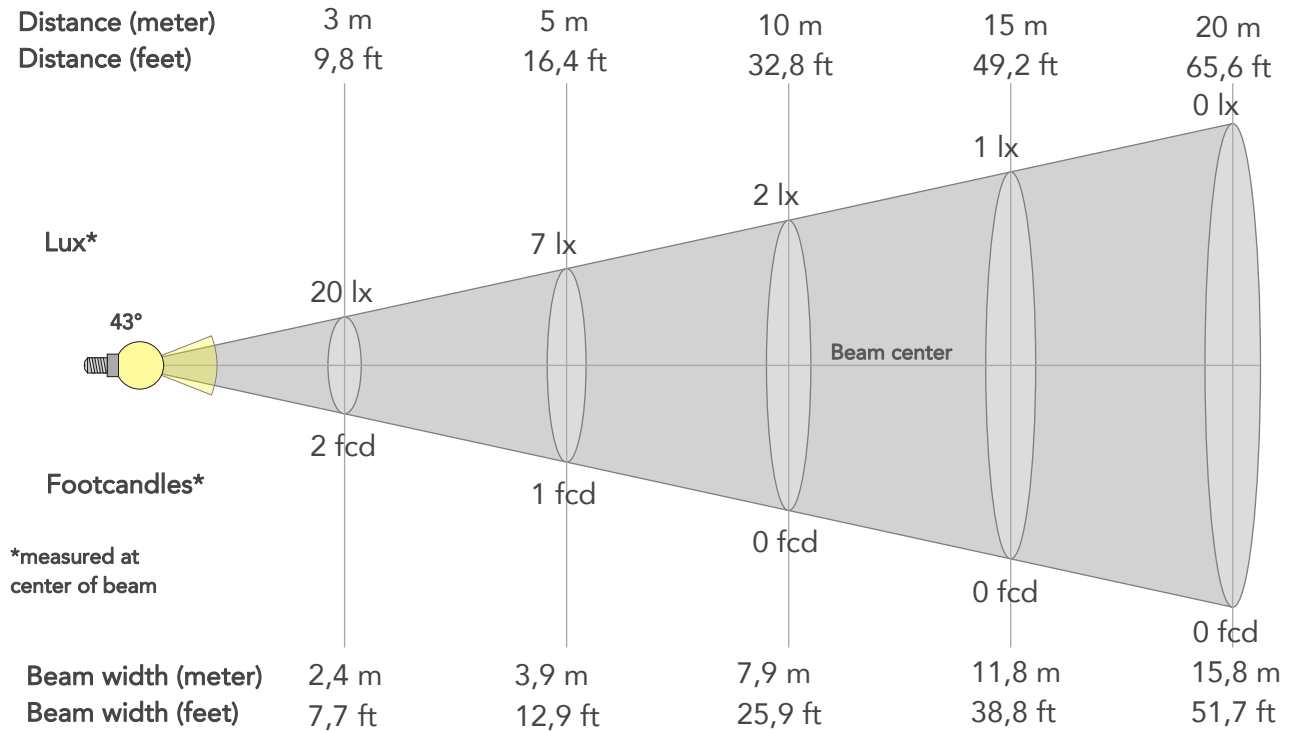
Cut off angle 2.5%: 119,4°

Spectra



BEAM DETAILS

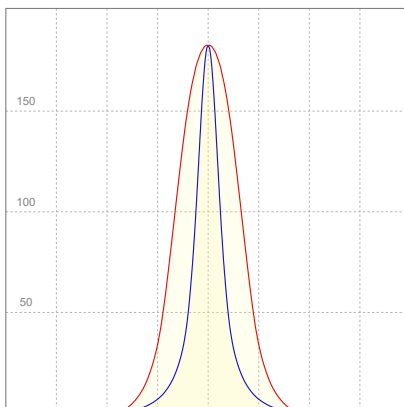
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
43°	83,4°	119,4°	96,4%	85,0%



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	182lx	46lx	20lx	11lx	7lx	3lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	17fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,6m	2,4m	3,2m	3,9m	5,9m	7,9m	11,8m	15,8m	19,7m	23,7m	31,5m	39,4m
Beam wid.	2,6ft	5,2ft	7,7ft	10,3ft	12,9ft	19,4ft	25,9ft	38,8ft	51,7ft	64,7ft	77,6ft	103,5ft	129,3ft

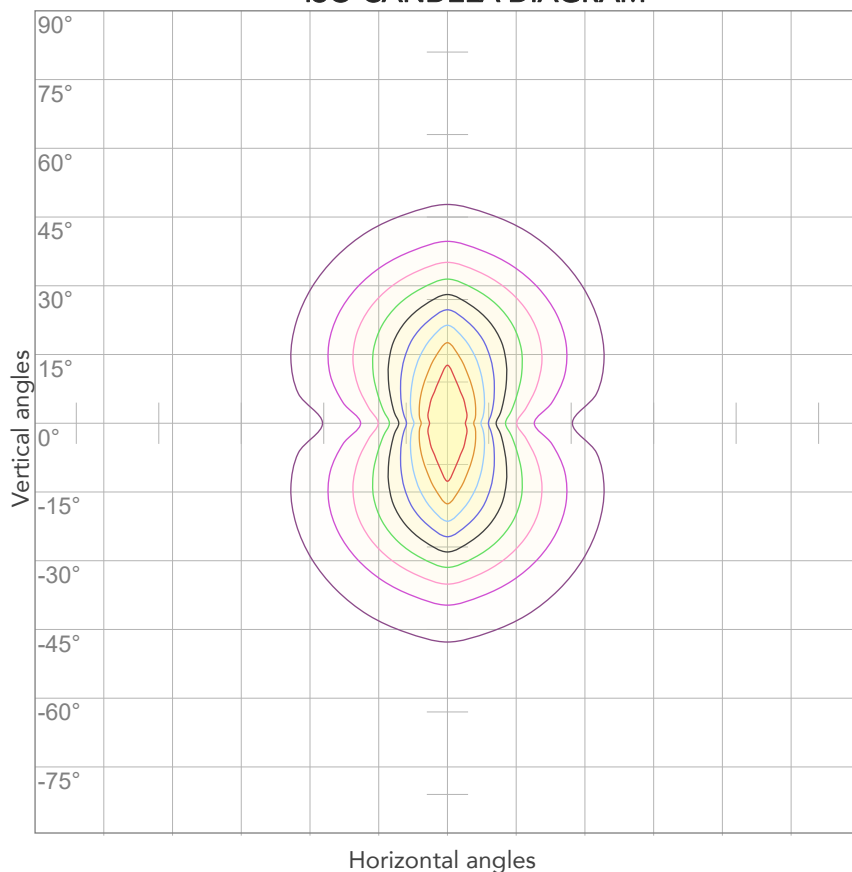
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,076A	12,4W	11lm/W
Power FC			
0,71			

ISO CANDELA DIAGRAM



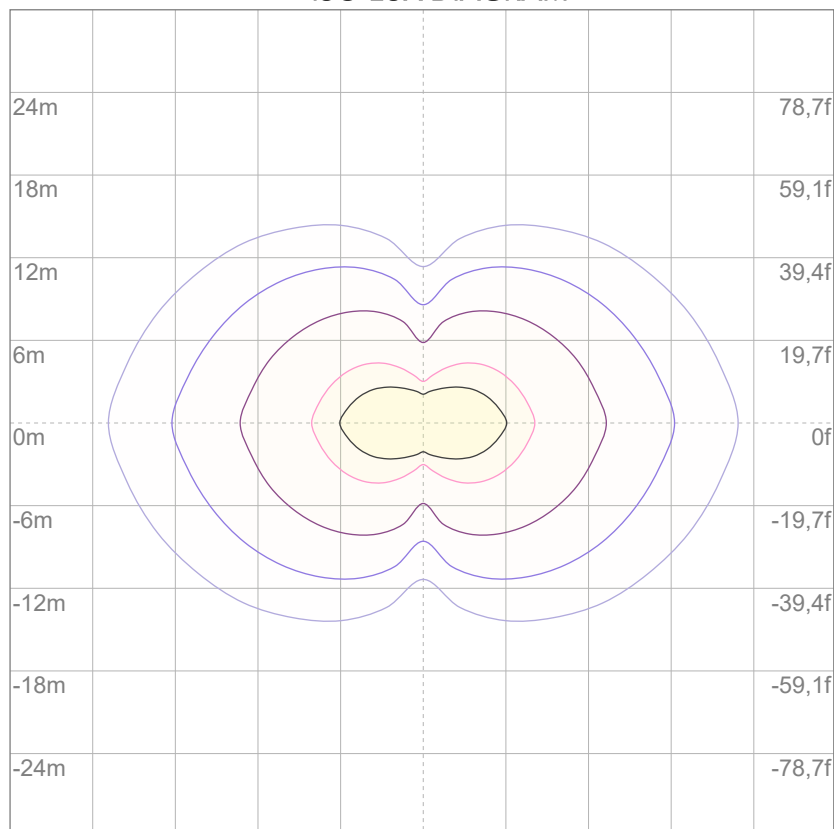
10%	18 cd
20%	36 cd
30%	55 cd
40%	73 cd
50%	91 cd
60%	109 cd
70%	128 cd
80%	146 cd

Conditions:

Number of c-planes: 4

Candela at center: 182 cd

ISO LUX DIAGRAM



3%	54,7m lx
5%	91,1m lx
10%	0,182 lx
30%	0,547 lx
50%	0,911 lx

Conditions:

Number of c-planes: 4

Lux at center: 1,82 lx

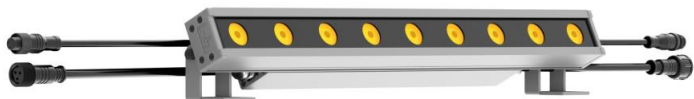
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Total lumen output:

127 lm

Peak candela output:

118 cd



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 30°x60°

Target:

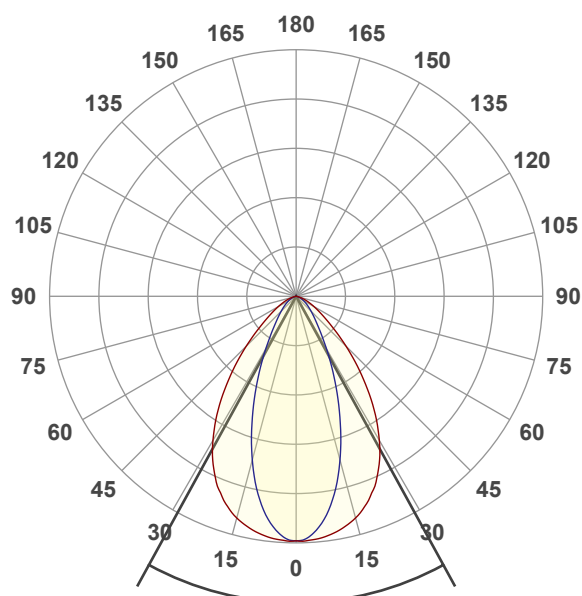
Blue

Operator:

Paolo Carvone

Date and time:

11/07/2022 11:18:00

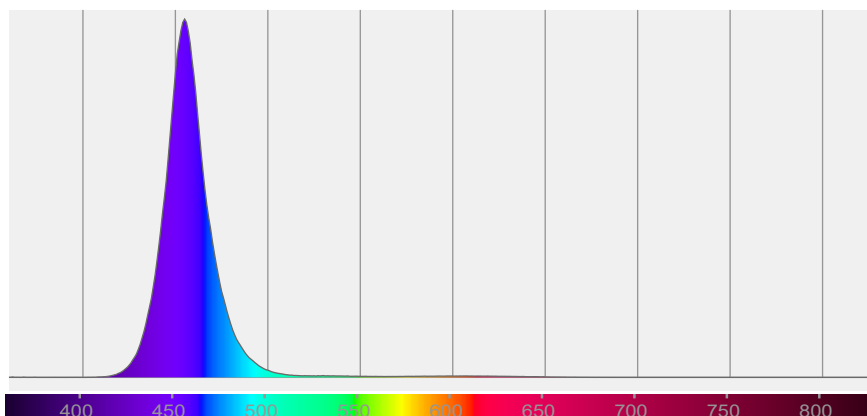


Beam angle 50%: 57,4°

Field angle 10%: 100,5°

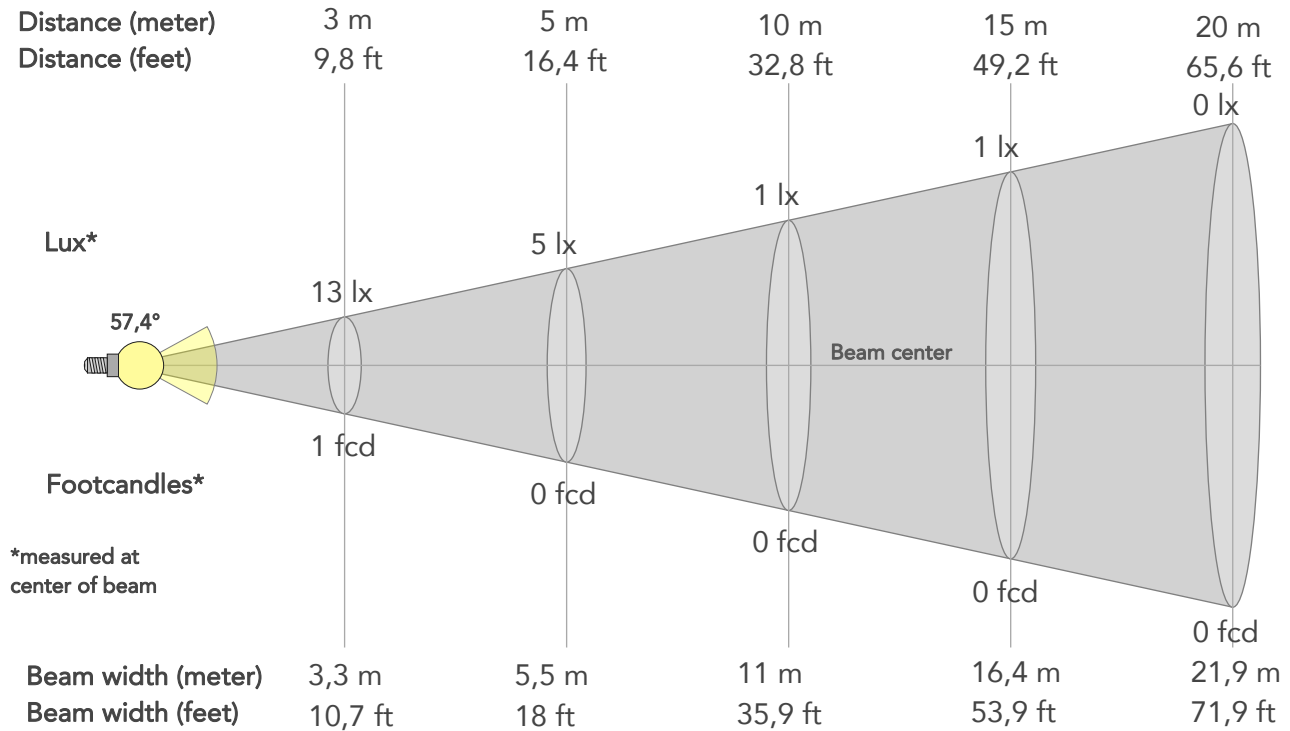
Cut off angle 2.5%: 136,1°

Spectra



BEAM DETAILS

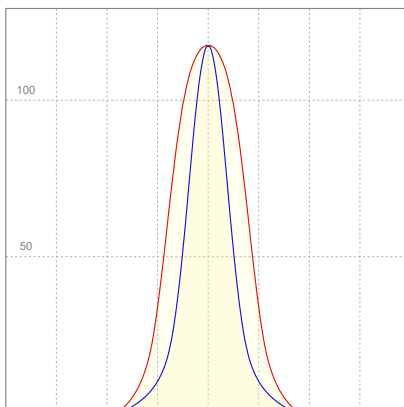
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57,4°	100,5°	136,1°	95,2%	82,1%



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	117lx	29lx	13lx	7lx	5lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	11fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,3m	4,4m	5,5m	8,2m	11m	16,4m	21,9m	27,4m	32,9m	43,8m	54,8m
Beam wid.	3,6ft	7,2ft	10,7ft	14,4ft	18ft	27ft	35,9ft	53,9ft	71,9ft	89,9ft	107,8ft	143,8ft	179,7ft

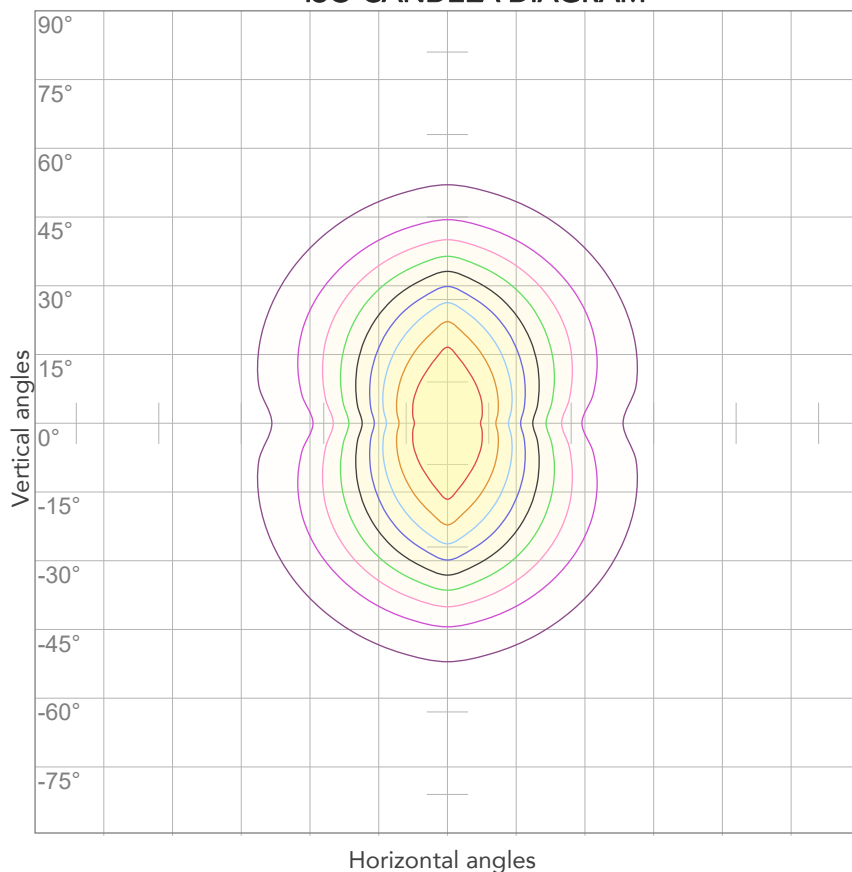
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,076A	12,3W	10lm/W
Power FC			
0,72			

ISO CANDELA DIAGRAM



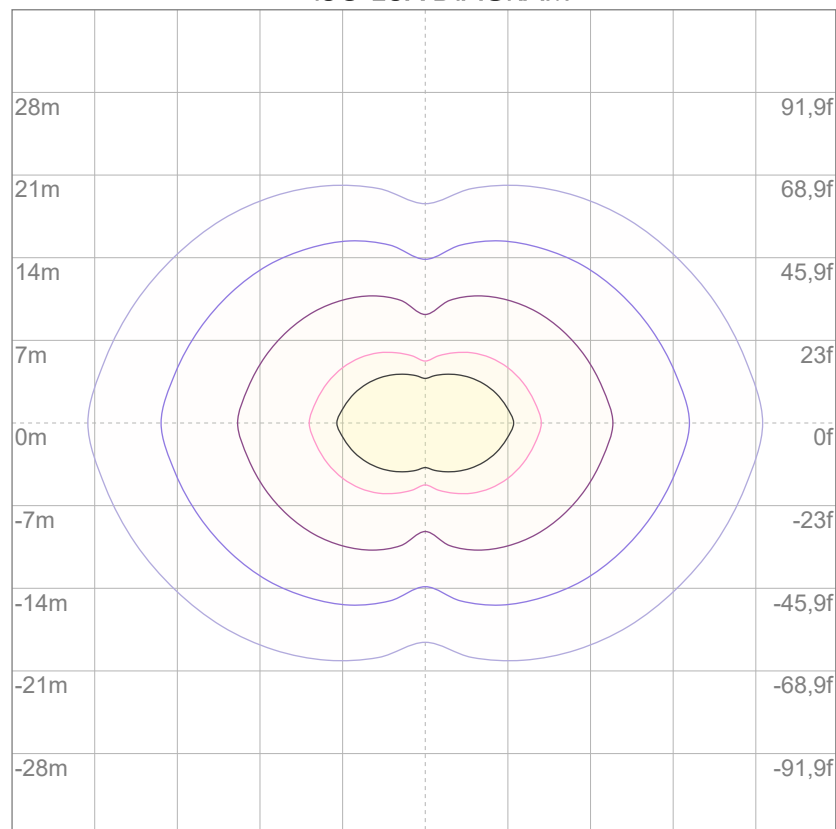
10%	12 cd
20%	23 cd
30%	35 cd
40%	47 cd
50%	59 cd
60%	70 cd
70%	82 cd
80%	94 cd

Conditions:

Number of c-planes: 4

Candela at center: 117 cd

ISO LUX DIAGRAM



3%	35,2m lx
5%	58,6m lx
10%	0,117 lx
30%	0,352 lx
50%	0,586 lx

Conditions:

Number of c-planes: 4

Lux at center: 1,17 lx

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

Total lumen output:

431 lm

Peak candela output:

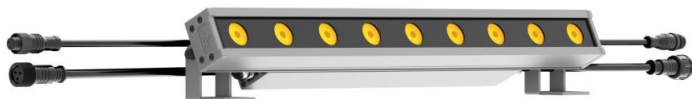
2502 cd

Light quality:

CRI: 84,7

Color temperature:

3044 K



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15°

Target:

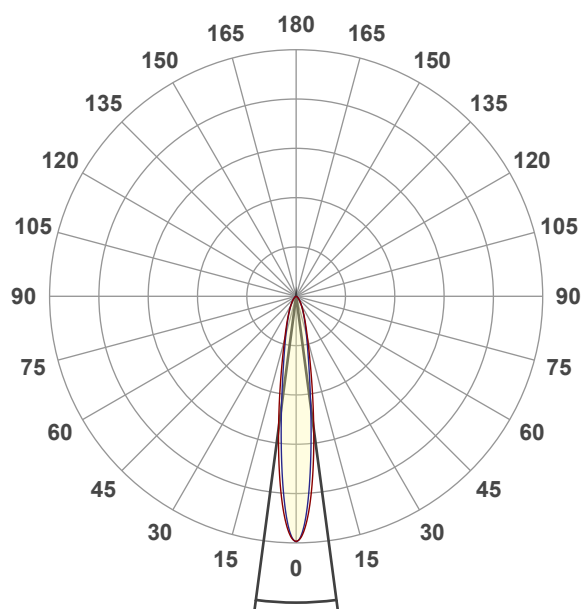
White

Operator:

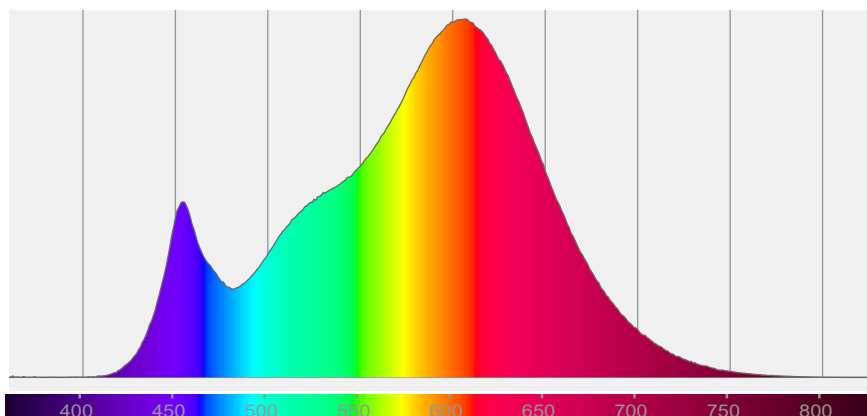
Paolo Carvone

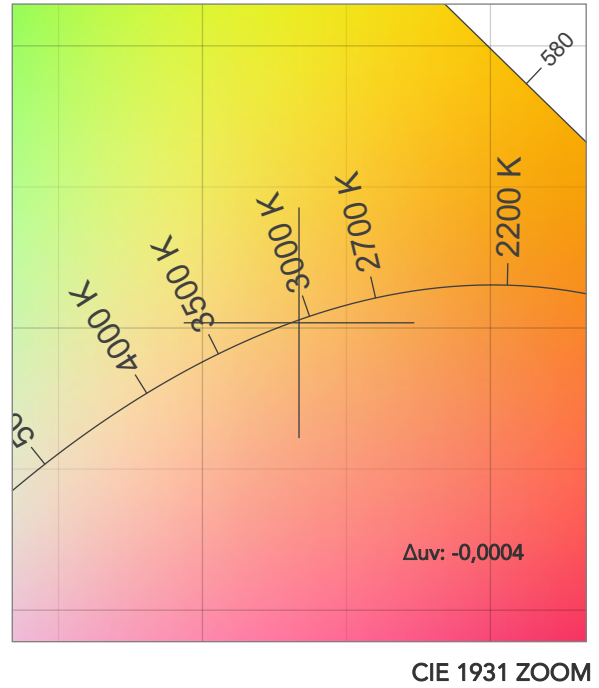
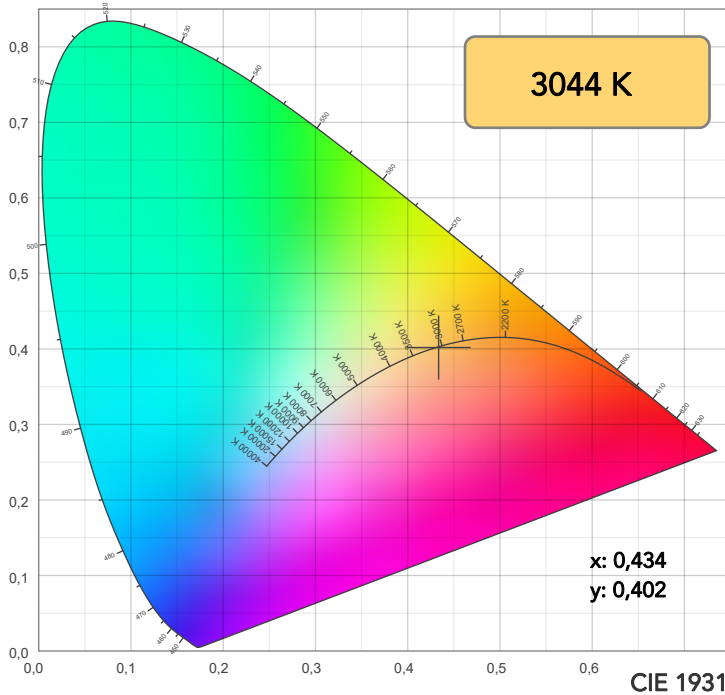
Date and time:

11/07/2022 09:31:39

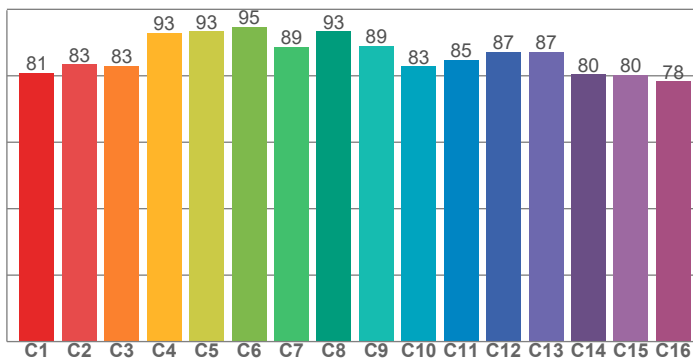


Spectra

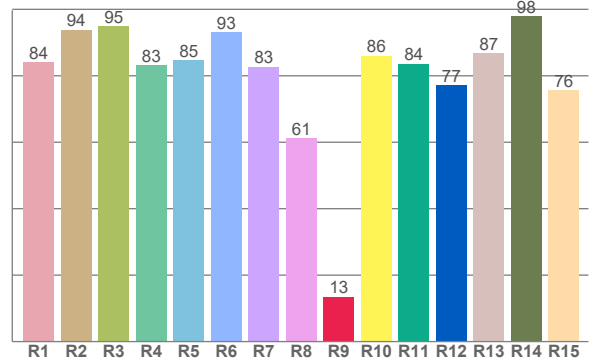




TM30: 86,5



CRI: 84,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,1	93,9	94,9	83,1	84,6	93,2	82,7	61,2	13,4	86,0	83,6	77,3	86,8	98,0	75,7

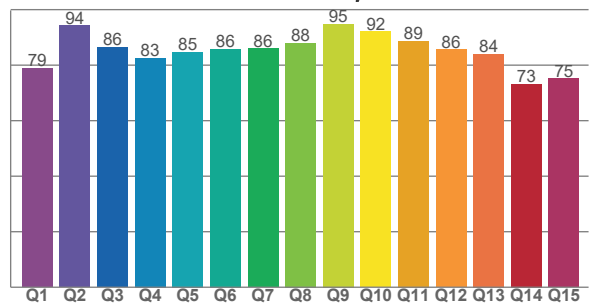
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,9	83,5	83,0	92,9	93,3	94,7	88,8	93,4	88,9	82,8	84,8	87,1	87,3	80,4	80,3	78,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,9	94,2	86,4	82,6	84,7	85,9	86,0	88,0	94,9	92,2	88,7	85,6	84,0	73,2	75,1

CQS: 84,0



COLOR PARAMETERS

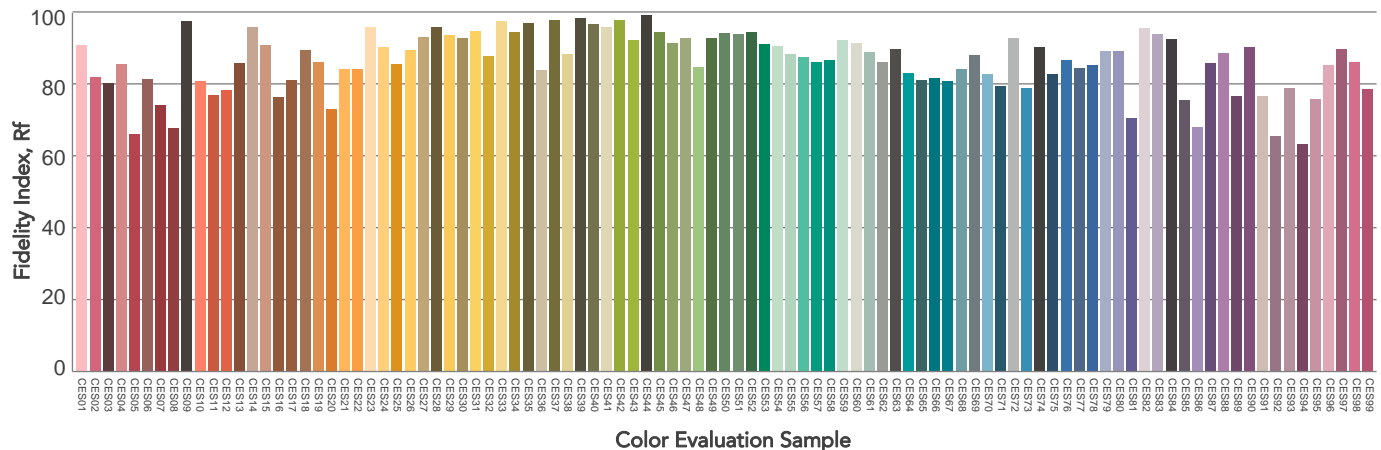
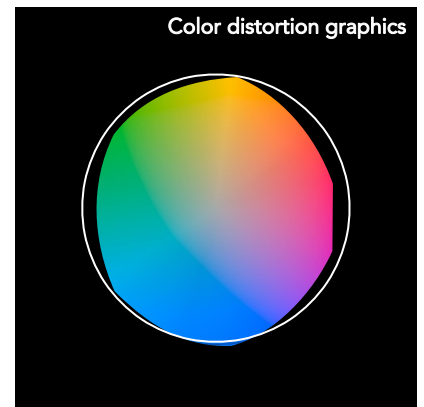
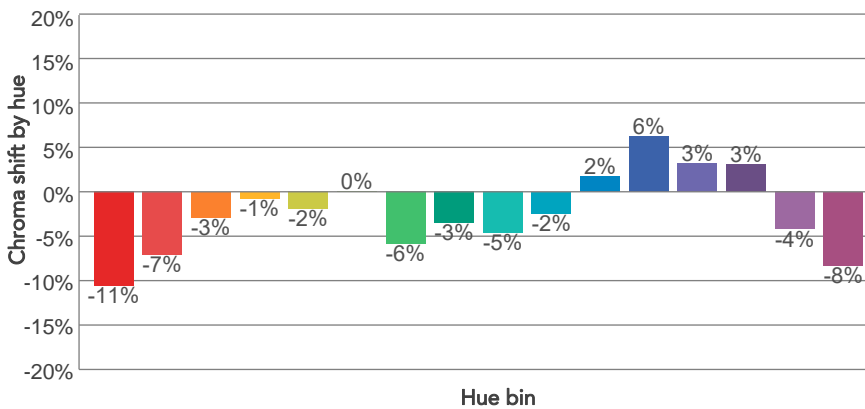
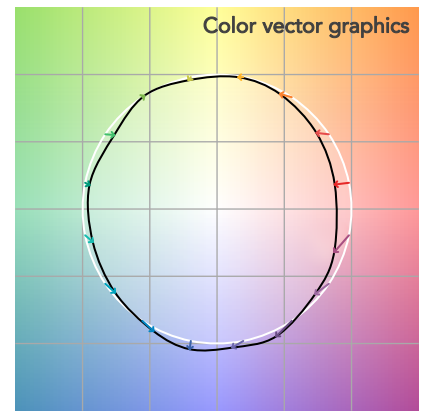
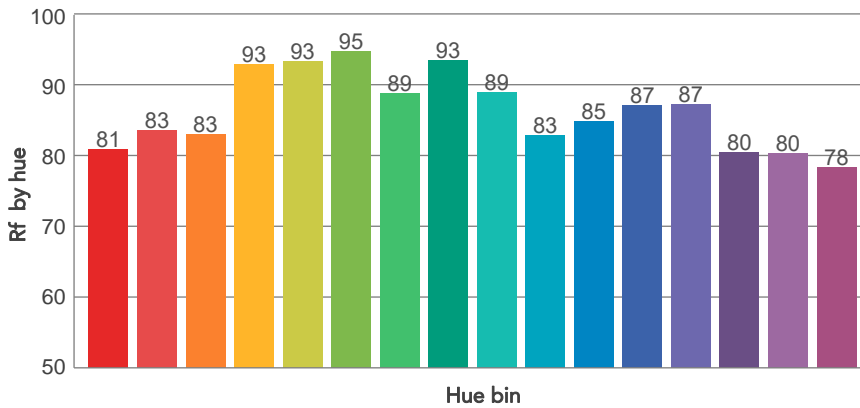
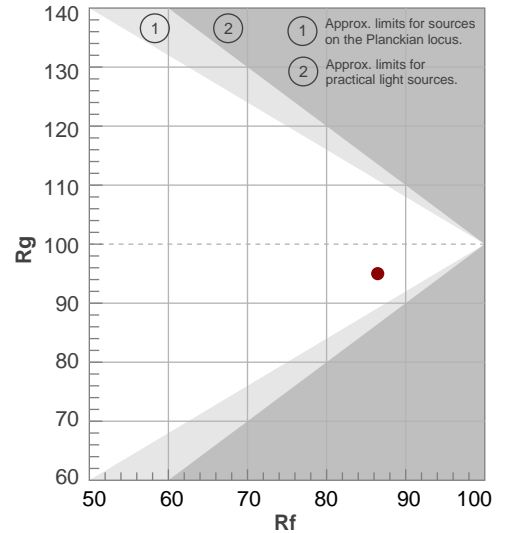
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3044 K	84,7	13,4	86,5	95,0	84,0	72	0,434	0,402	-0,0004

TM30 DETAILS

Rf 86,5
Fidelity index Rf

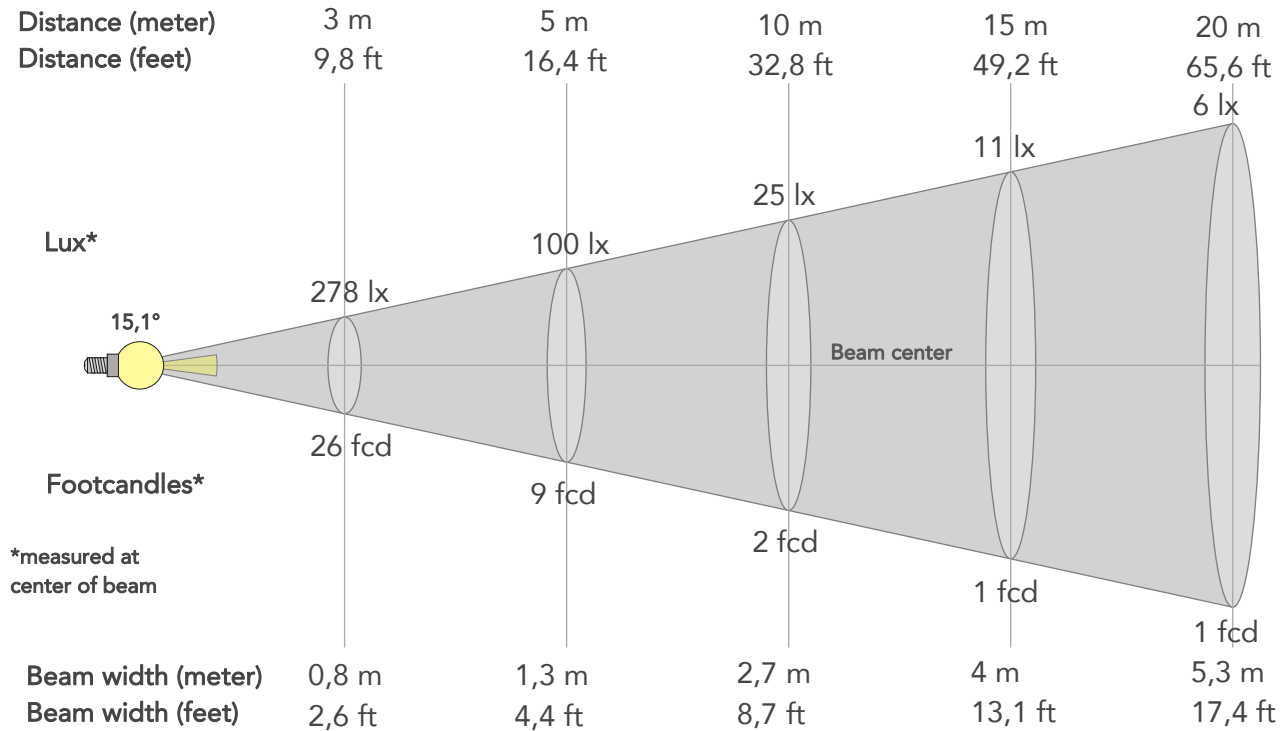
Rg 95,0
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	83	-3%	8%
4	93	-1%	4%
5	93	-2%	2%
6	95	0%	-2%
7	89	-6%	-3%
8	93	-3%	1%
9	89	-5%	6%
10	83	-2%	10%
11	85	2%	11%
12	87	6%	0%
13	87	3%	-9%
14	80	3%	-16%
15	80	-4%	-12%
16	78	-8%	-14%



BEAM DETAILS

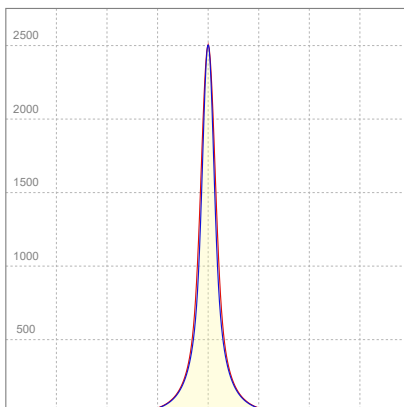
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	40,3°	74,1°	98,9%	92,9%



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	2501lx	625lx	278lx	156lx	100lx	44lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	232fcd	58fcd	26fcd	15fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,6m	8m	10,6m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,5ft	8,7ft	13,1ft	17,4ft	21,8ft	26,1ft	34,8ft	43,5ft

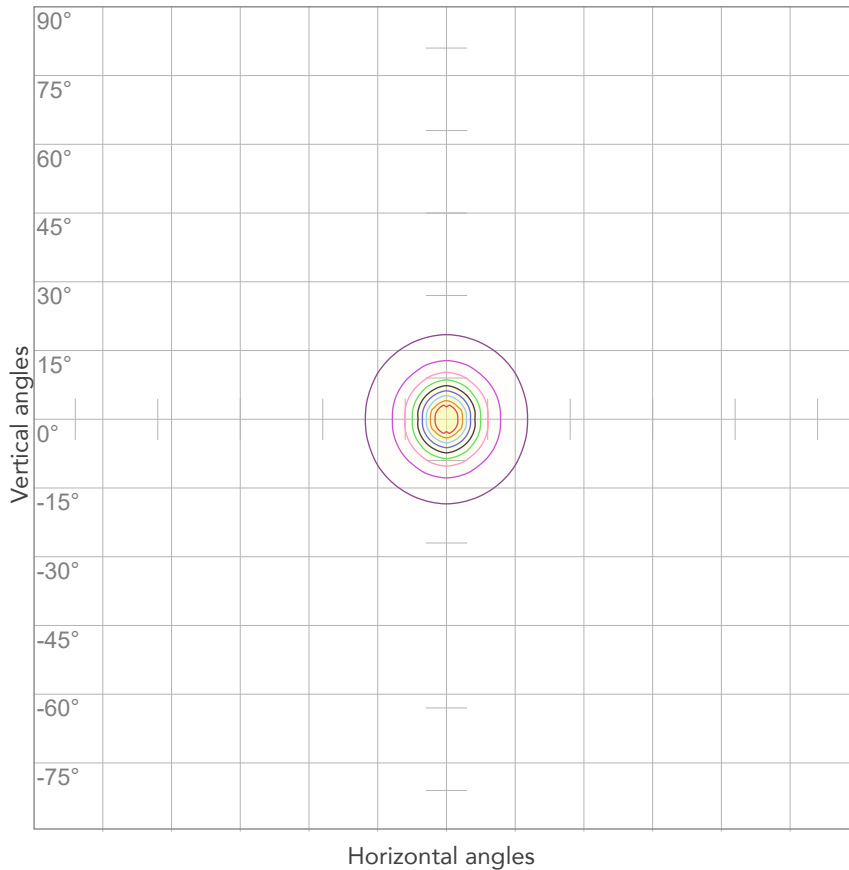
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,077A	12,6W	34lm/W

ISO CANDELA DIAGRAM



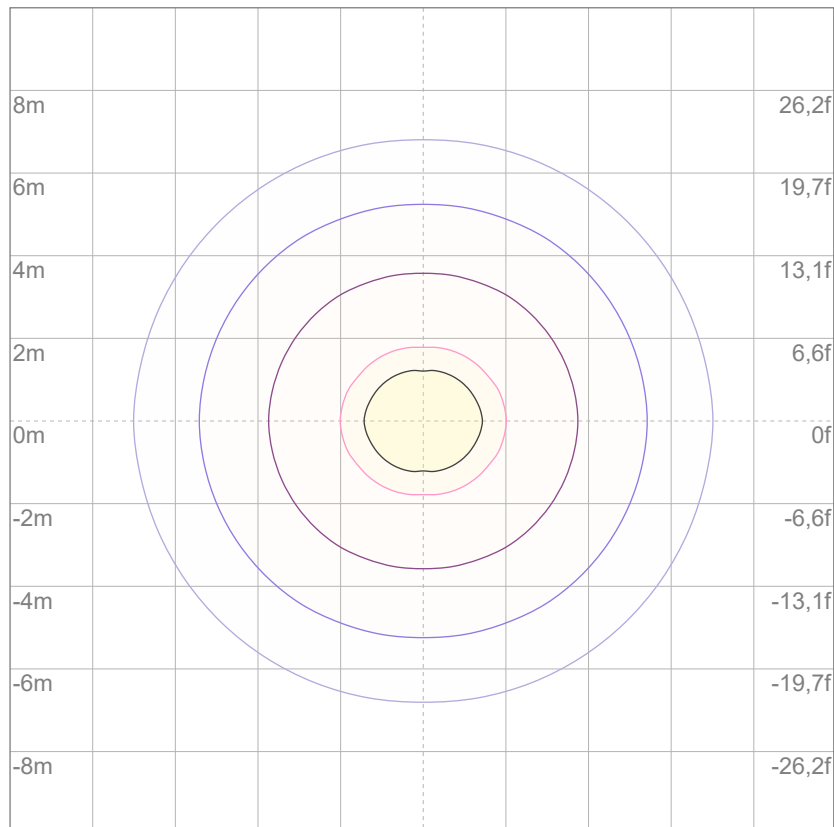
10%	250 cd
20%	500 cd
30%	750 cd
40%	1000 cd
50%	1251 cd
60%	1501 cd
70%	1751 cd
80%	2001 cd

Conditions:

Number of c-planes: 4

Candela at center: 2501 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,750 lx
5%	1,25 lx
10%	2,50 lx
30%	7,50 lx
50%	12,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 25,0 lx

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

Total lumen output:

399 lm

Peak candela output:

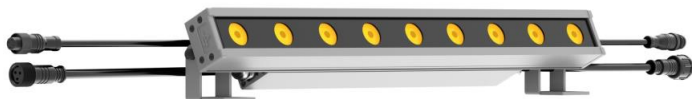
829 cd

Light quality:

CRI: 84,9

Color temperature:

3054 K



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 20°

Target:

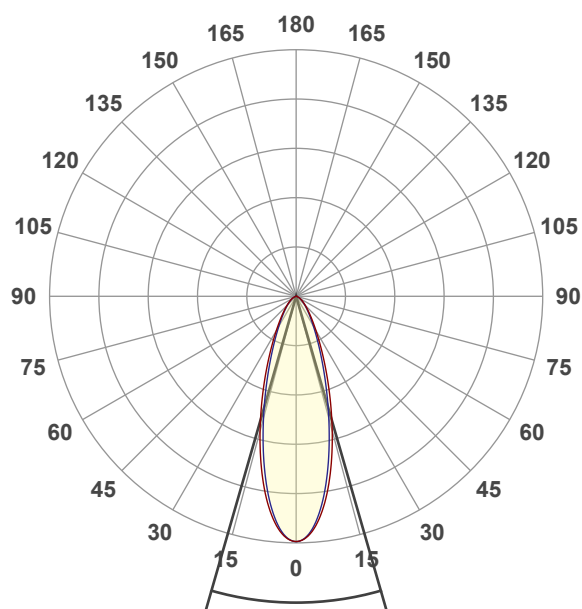
White

Operator:

Paolo Carvone

Date and time:

11/07/2022 09:52:11

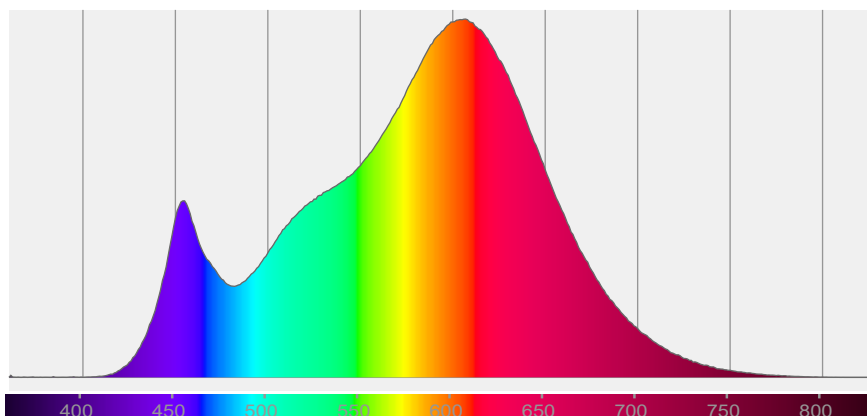


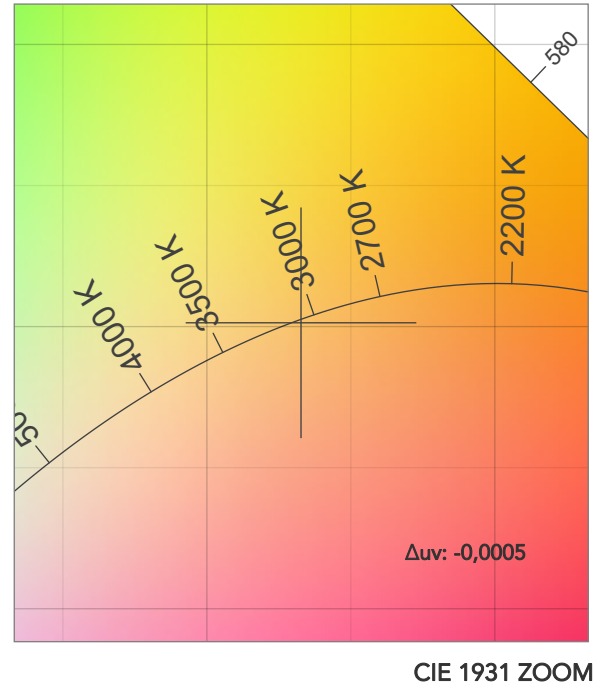
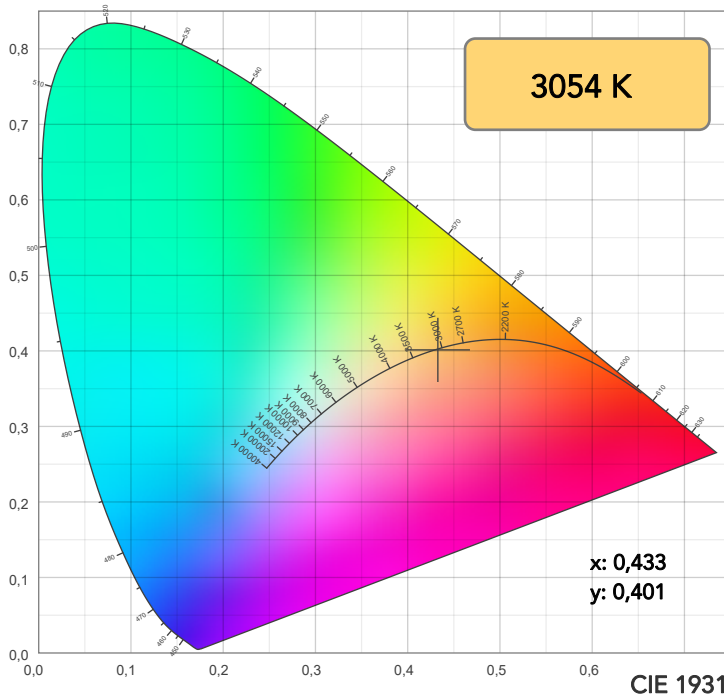
Beam angle 50%: 32,1°

Field angle 10%: 70,6°

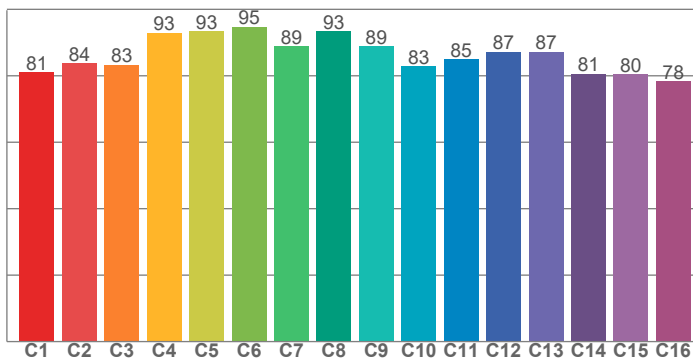
Cut off angle 2.5%: 111,2°

Spectra

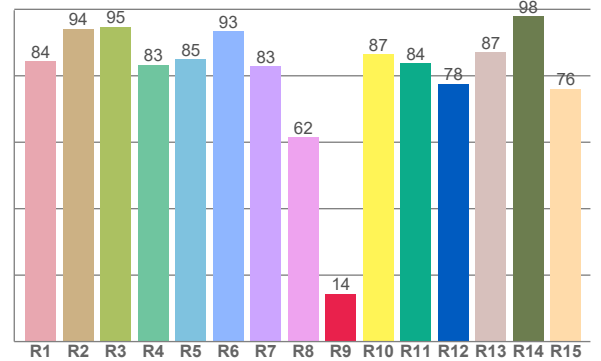




TM30: 86,6



CRI: 84,9 (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
84,4	94,1	94,8	83,3	84,9	93,4	82,8	61,6	14,4	86,5	83,8	77,6	87,1	97,9	76,1

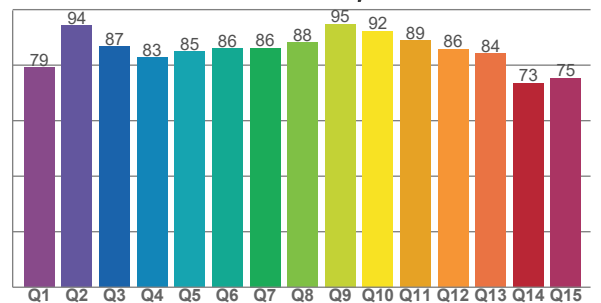
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,1	83,7	83,4	93,0	93,3	94,7	88,8	93,3	88,9	82,8	85,0	87,3	87,3	80,5	80,4	78,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,1	94,2	86,7	82,7	84,9	86,0	86,2	88,1	94,9	92,3	88,9	85,8	84,2	73,5	75,4

CQS: 84,2



COLOR PARAMETERS

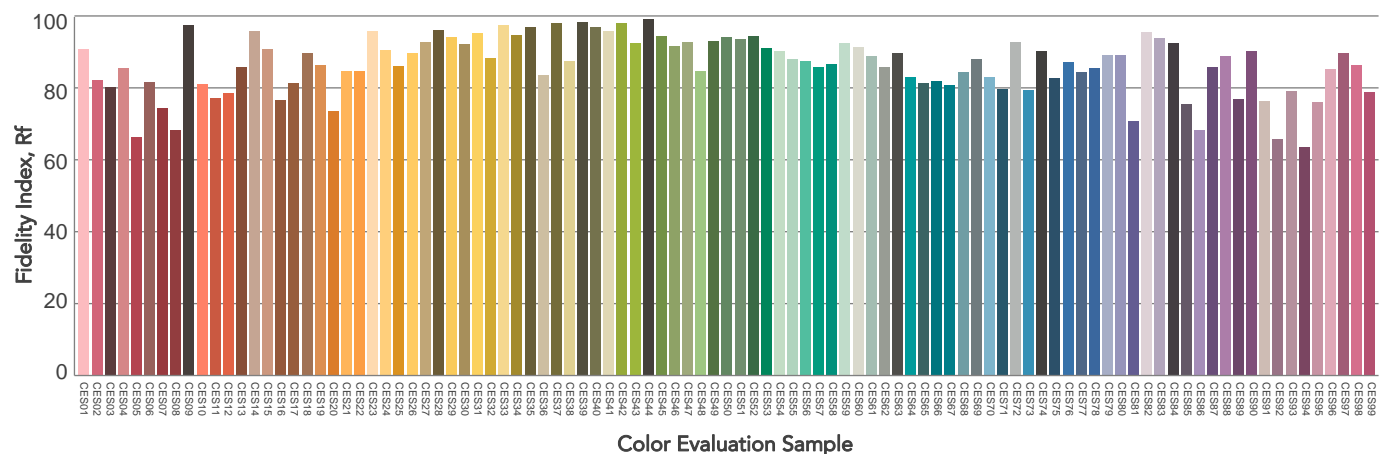
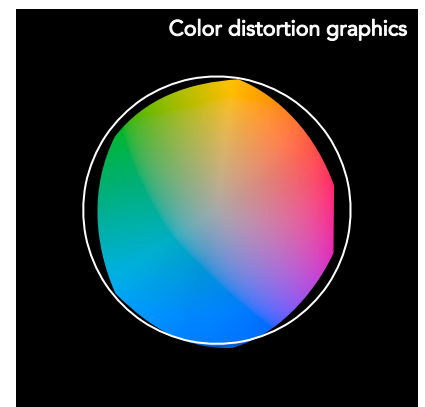
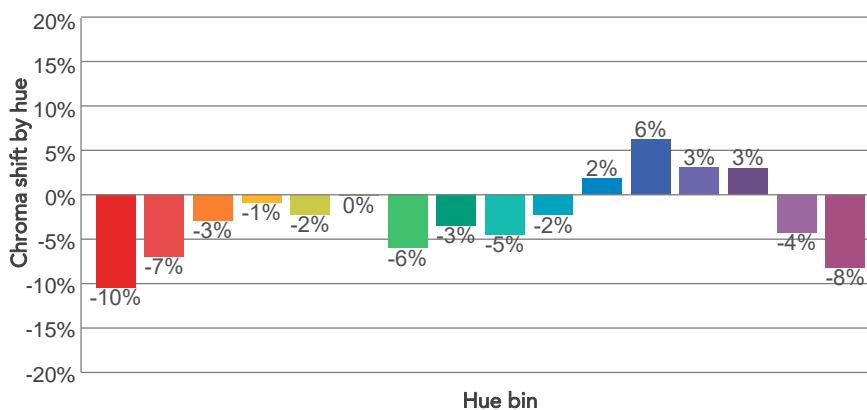
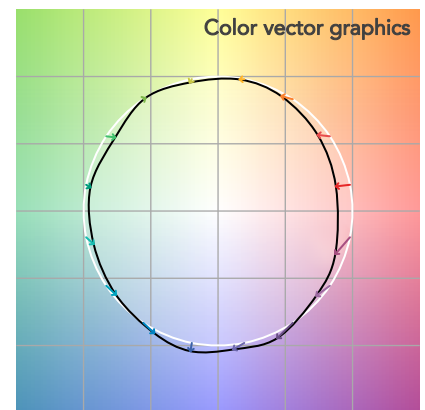
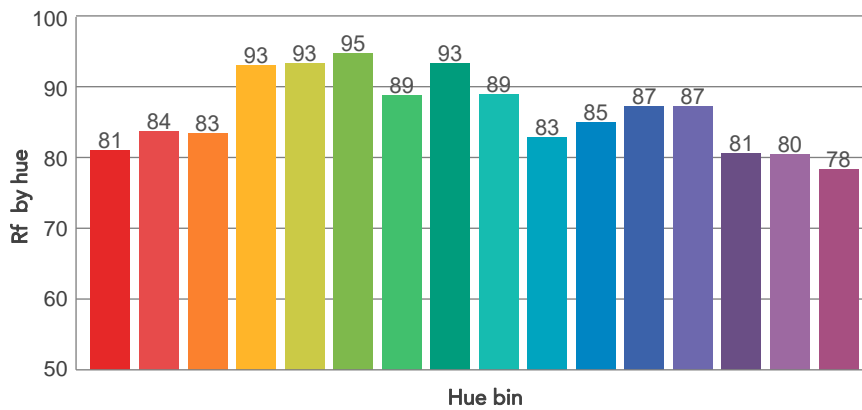
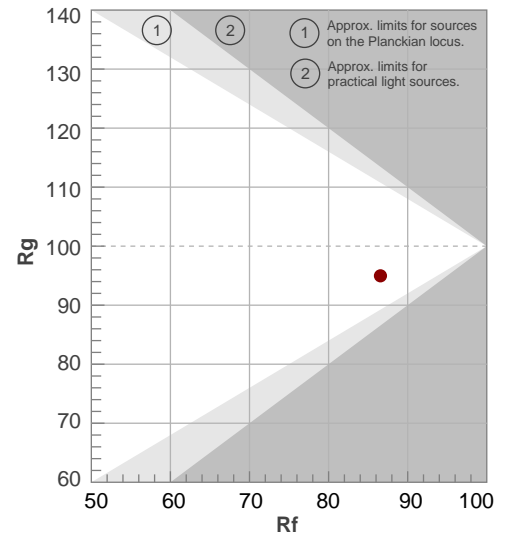
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3054 K	84,9	14,4	86,6	95,0	84,2	73	0,433	0,401	-0,0005

TM30 DETAILS

Rf 86,6
Fidelity index Rf

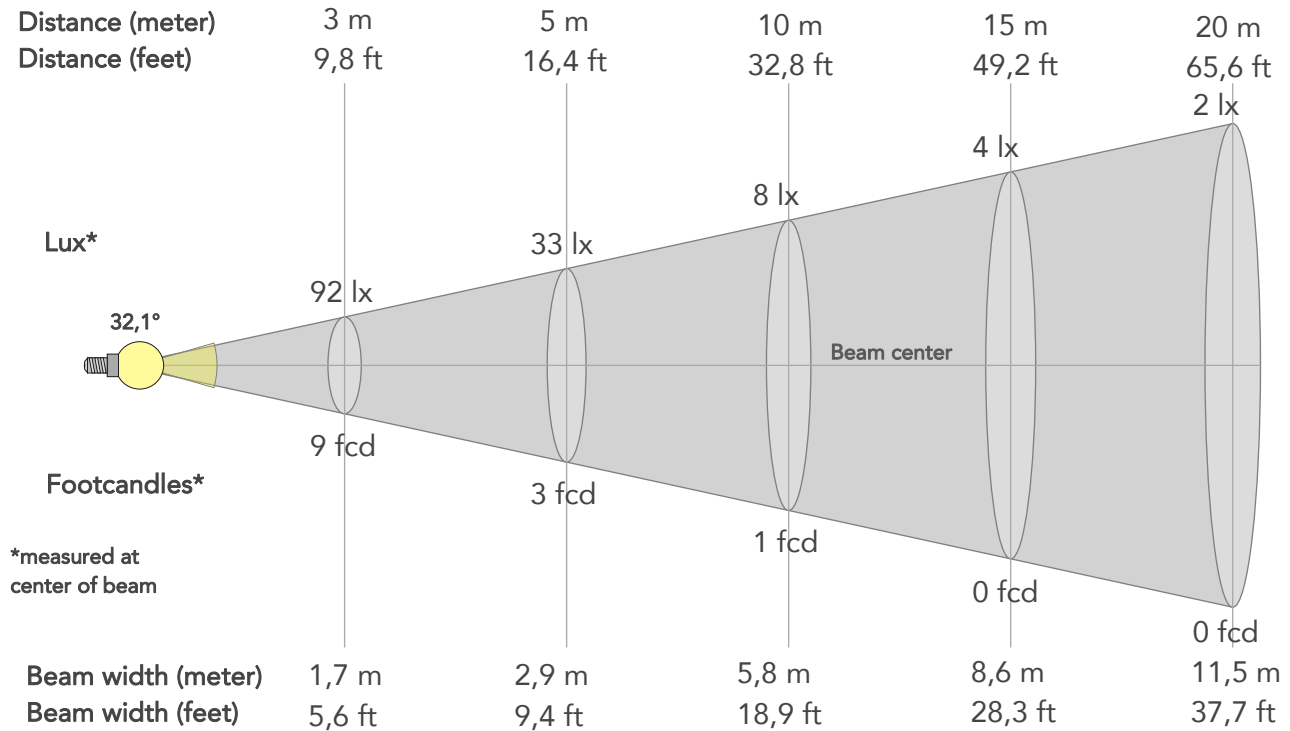
Rg 95,0
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-10%	1%
2	84	-7%	6%
3	83	-3%	8%
4	93	-1%	3%
5	93	-2%	2%
6	95	0%	-2%
7	89	-6%	-3%
8	93	-3%	1%
9	89	-5%	6%
10	83	-2%	10%
11	85	2%	11%
12	87	6%	0%
13	87	3%	-9%
14	81	3%	-16%
15	80	-4%	-12%
16	78	-8%	-14%



BEAM DETAILS

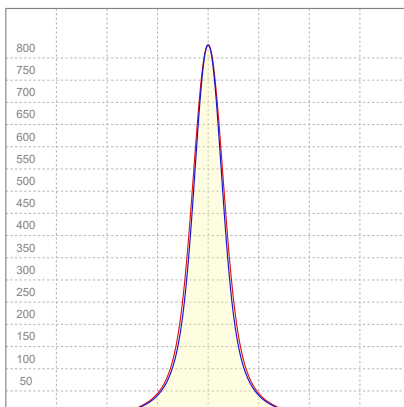
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,1°	70,6°	111,2°	97,2%	88,7%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	829lx	207lx	92lx	52lx	33lx	15lx	8lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	77fcd	19fcd	9fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,7m	2,3m	2,9m	4,3m	5,8m	8,6m	11,5m	14,4m	17,3m	23m	28,8m
Beam wid.	1,9ft	3,8ft	5,6ft	7,5ft	9,4ft	14,2ft	18,9ft	28,3ft	37,7ft	47,2ft	56,6ft	75,5ft	94,4ft

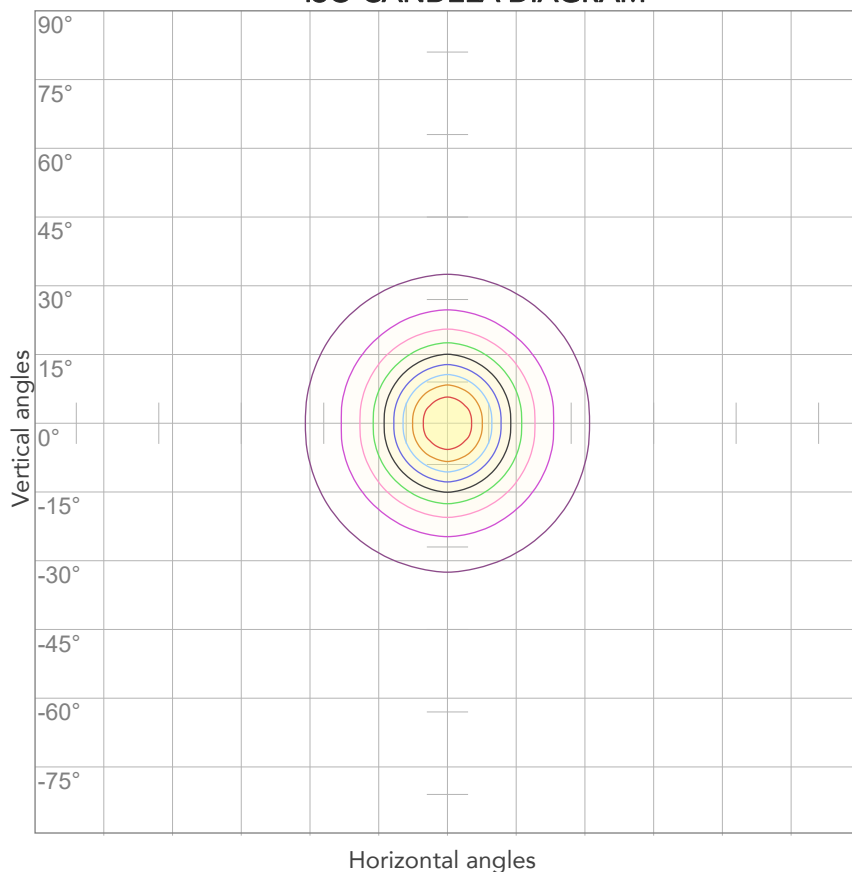
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,077A	12,5W	32lm/W

ISO CANDELA DIAGRAM



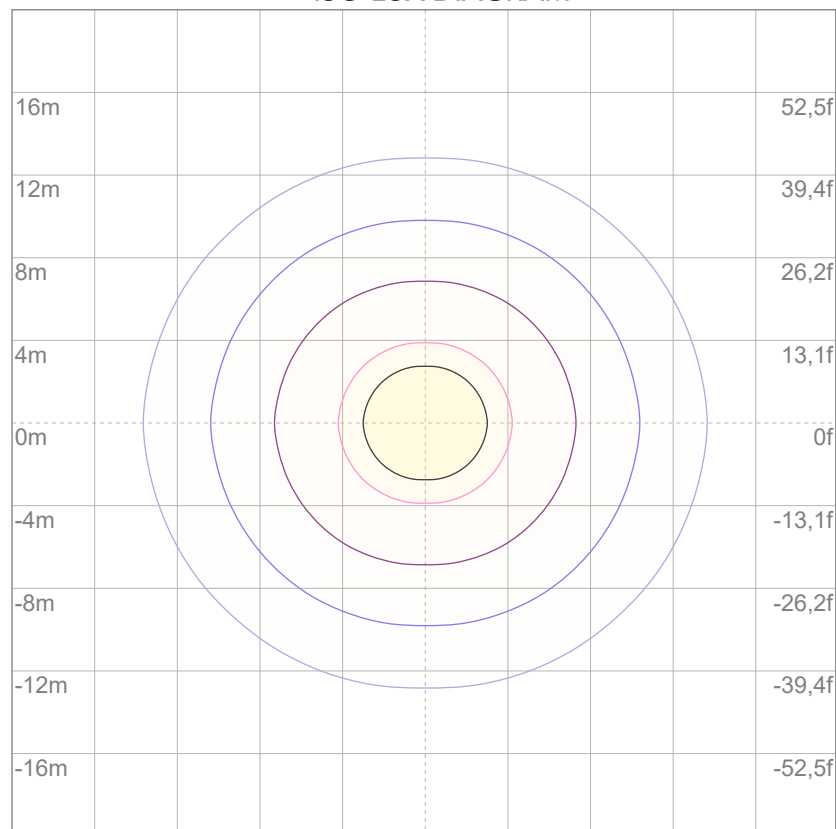
10%	83 cd
20%	166 cd
30%	249 cd
40%	331 cd
50%	414 cd
60%	497 cd
70%	580 cd
80%	663 cd

Conditions:

Number of c-planes: 4

Candela at center: 829 cd

ISO LUX DIAGRAM



3%	0,249 lx
5%	0,414 lx
10%	0,829 lx
30%	2,49 lx
50%	4,14 lx

Conditions:

Number of c-planes: 4

Lux at center: 8,29 lx

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

Total lumen output:

386 lm

Peak candela output:

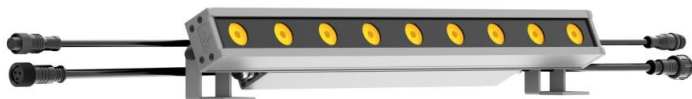
290 cd

Light quality:

CRI: 85,1

Color temperature:

3069 K



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 60°

Target:

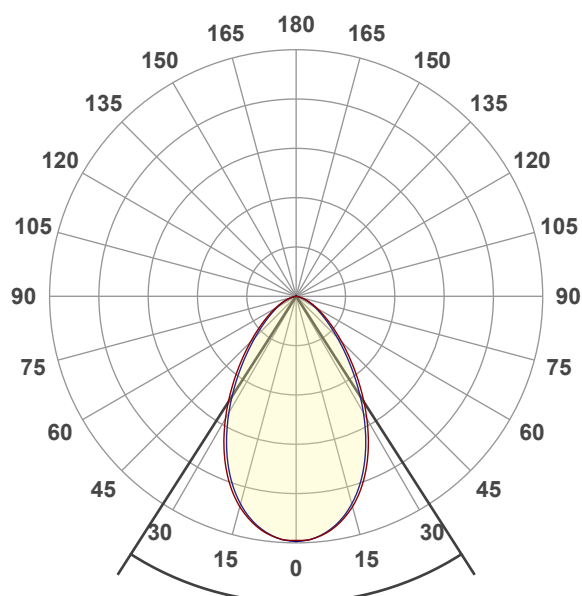
White

Operator:

Paolo Carvone

Date and time:

11/07/2022 10:34:06

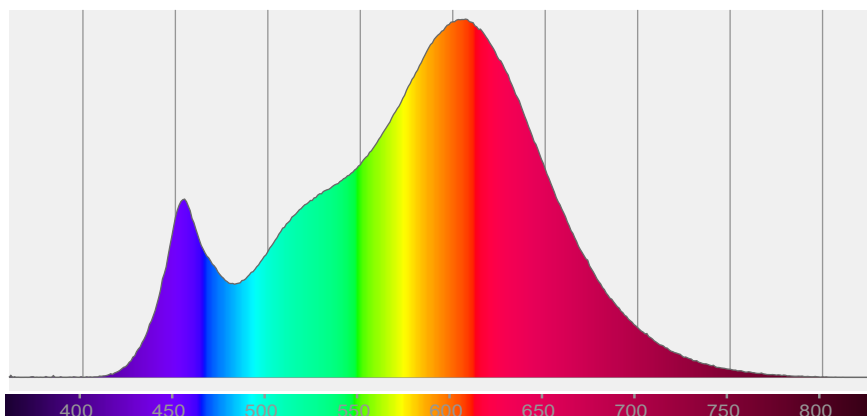


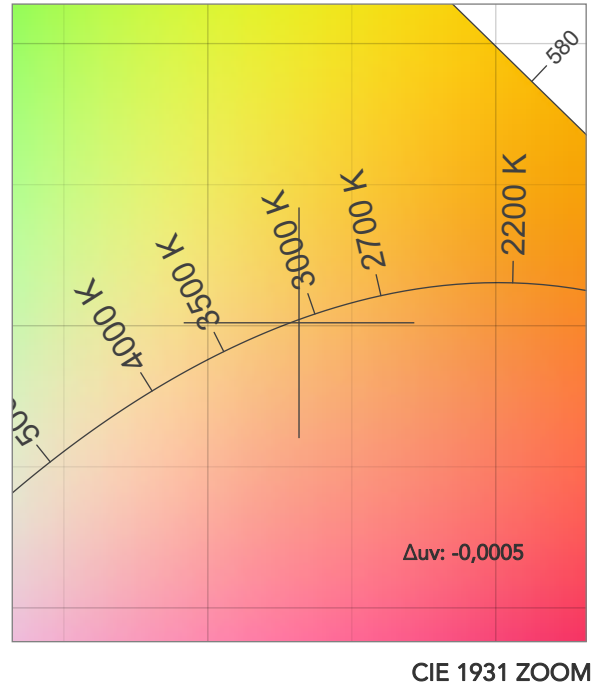
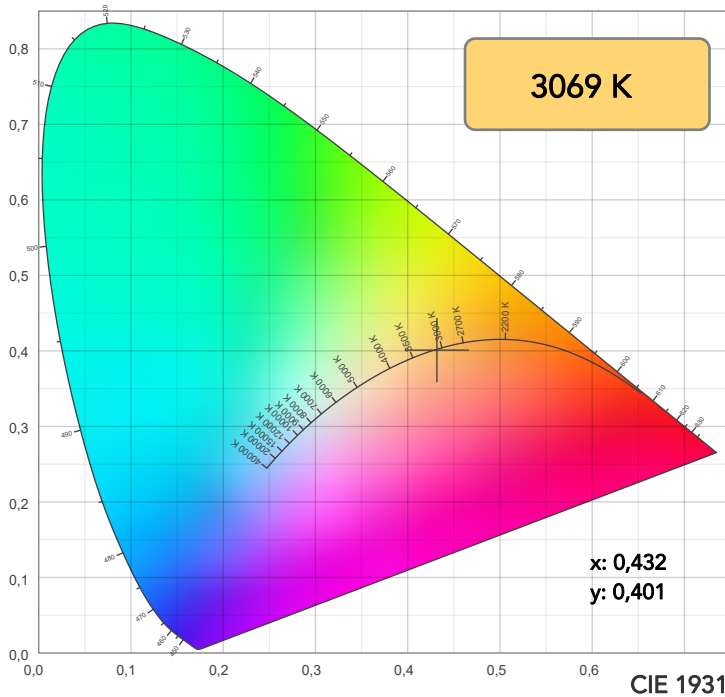
Beam angle 50%: 65,3°

Field angle 10%: 118°

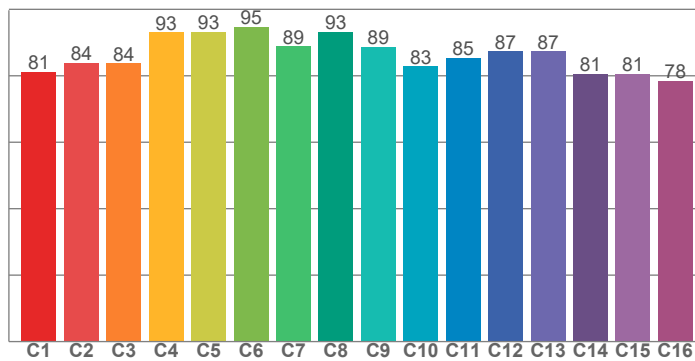
Cut off angle 2.5%: 146,4°

Spectra

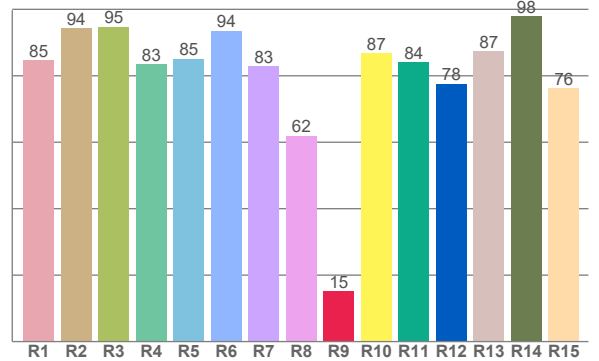




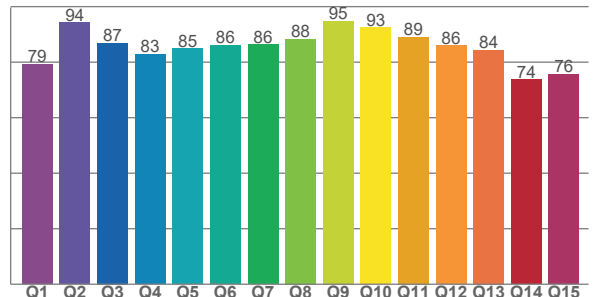
TM30: 86,6



CRI: 85,1 (R1-R8)



CQS: 84,4



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
84,6	94,3	94,7	83,5	85,1	93,6	82,9	62,0	15,2	86,9	84,0	77,6	87,3	97,8	76,3

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
81,2	83,9	83,7	93,1	93,3	94,7	88,8	93,3	88,8	82,8	85,4	87,4	87,3	80,6	80,5	78,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,2	94,2	86,8	82,8	84,9	86,1	86,4	88,3	94,9	92,5	89,1	86,0	84,4	73,7	75,6

COLOR PARAMETERS

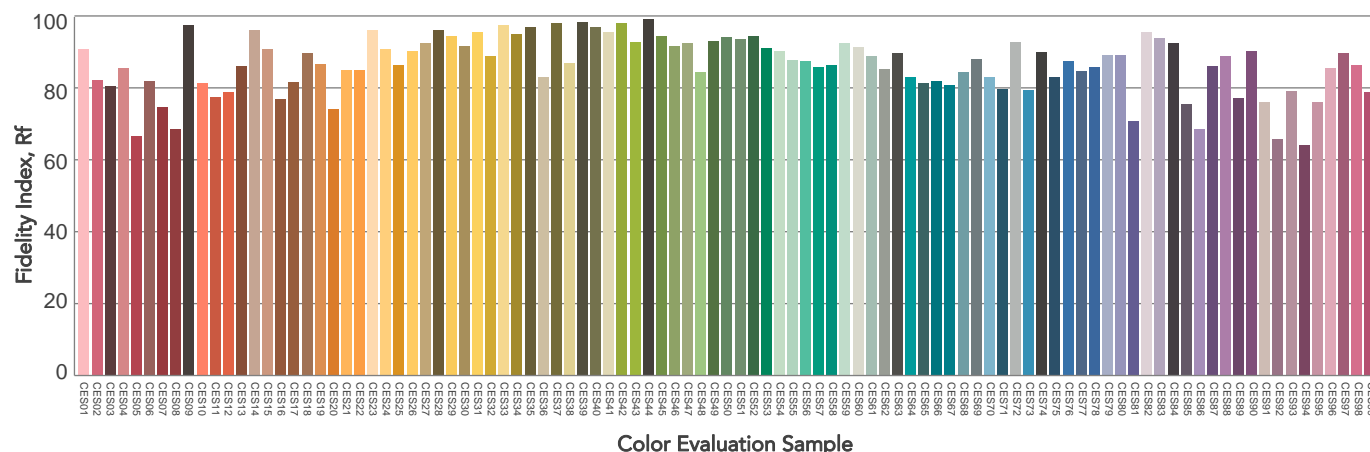
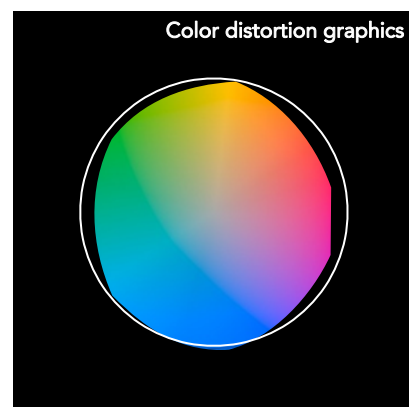
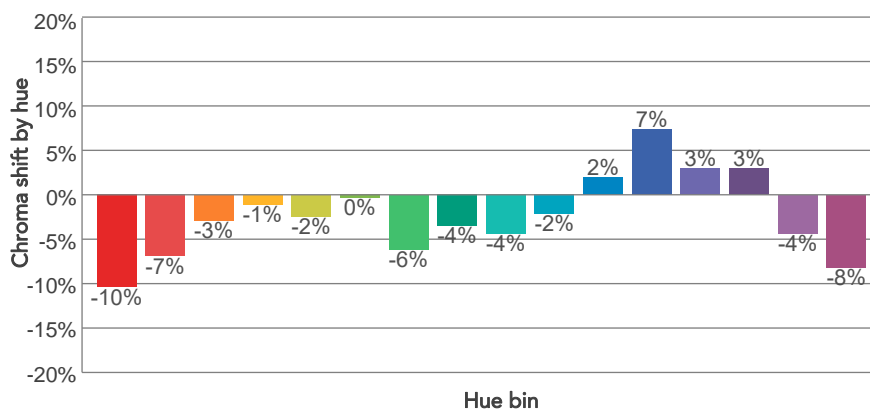
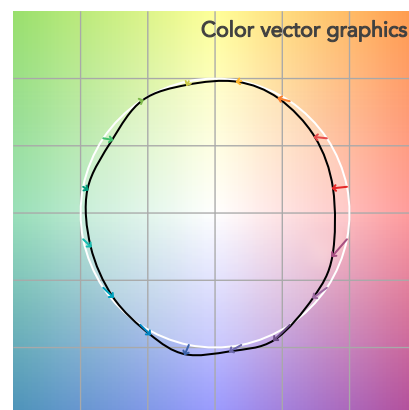
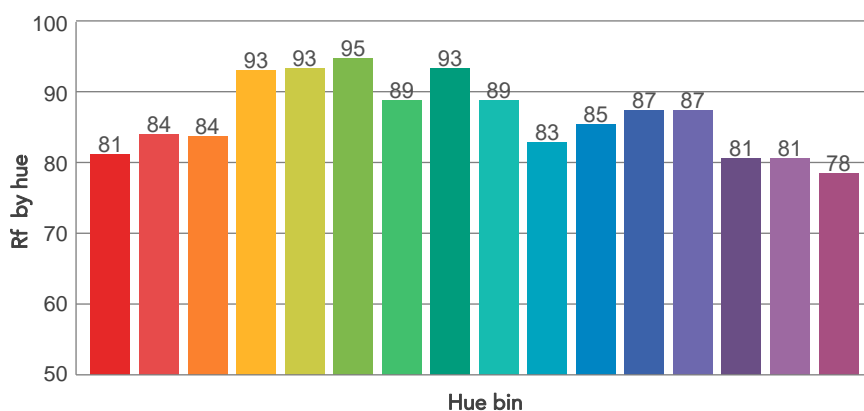
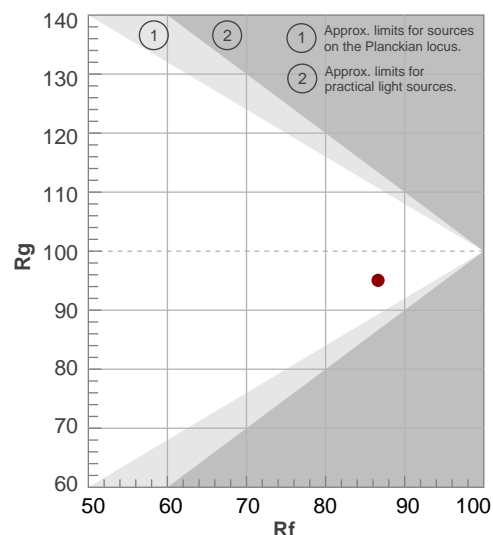
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3069 K	85,1	15,2	86,6	95,1	84,4	73	0,432	0,401	-0,0005

TM30 DETAILS

Rf 86,6
Fidelity index Rf

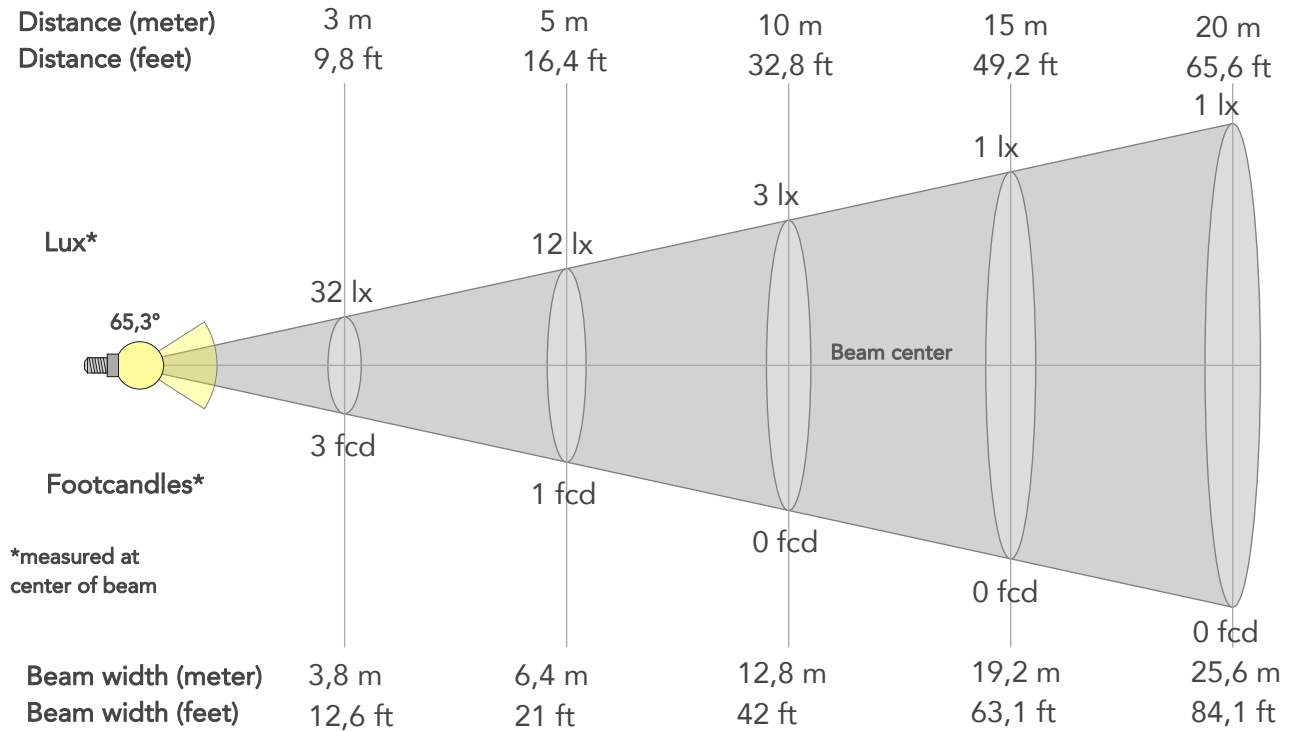
Rg 95,1
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-10%	1%
2	84	-7%	6%
3	84	-3%	8%
4	93	-1%	3%
5	93	-2%	2%
6	95	0%	-2%
7	89	-6%	-3%
8	93	-4%	1%
9	89	-4%	6%
10	83	-2%	10%
11	85	2%	10%
12	87	7%	-2%
13	87	3%	-9%
14	81	3%	-16%
15	81	-4%	-12%
16	78	-8%	-14%



BEAM DETAILS

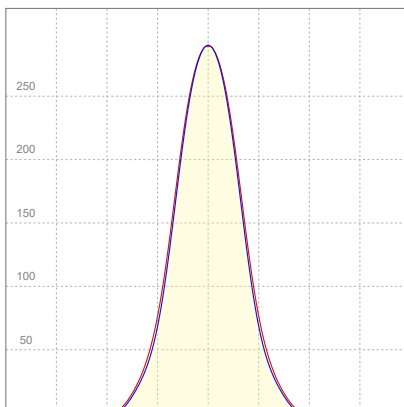
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65,3°	118°	146,4°	93,5%	78,0%



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	290lx	72lx	32lx	18lx	12lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	27fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,8m	5,1m	6,4m	9,6m	12,8m	19,2m	25,6m	32m	38,5m	51,3m	64,1m
Beam wid.	4,2ft	8,5ft	12,6ft	16,8ft	21ft	31,5ft	42ft	63,1ft	84,1ft	105,1ft	126,1ft	168,2ft	210,2ft

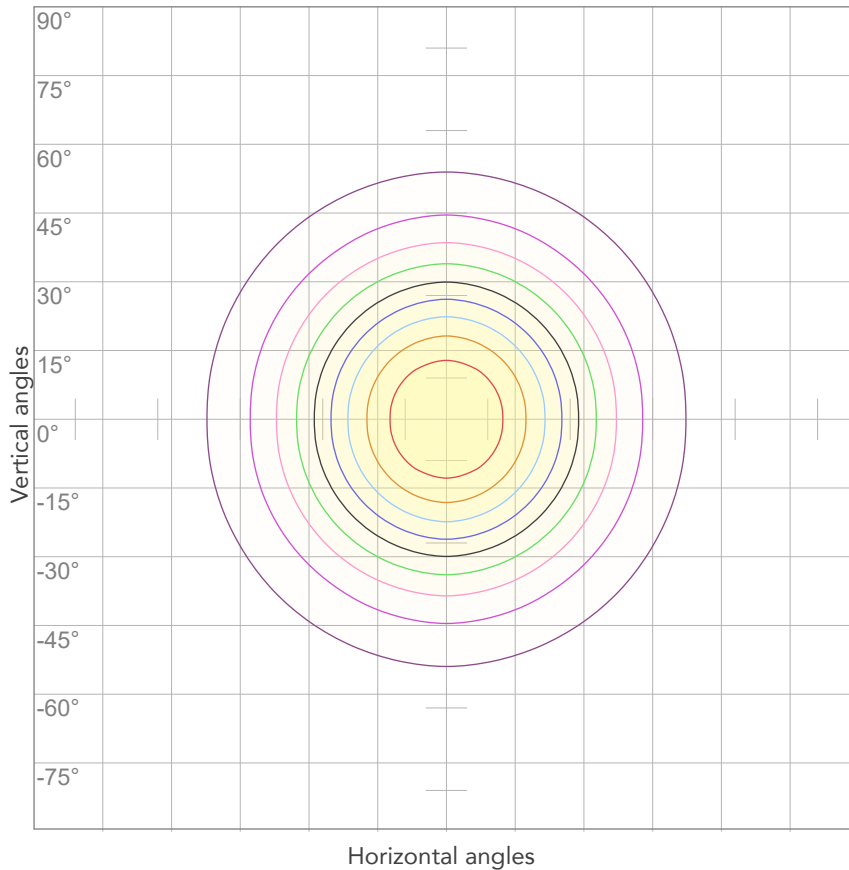
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,076A	12,5W	31lm/W

ISO CANDELA DIAGRAM



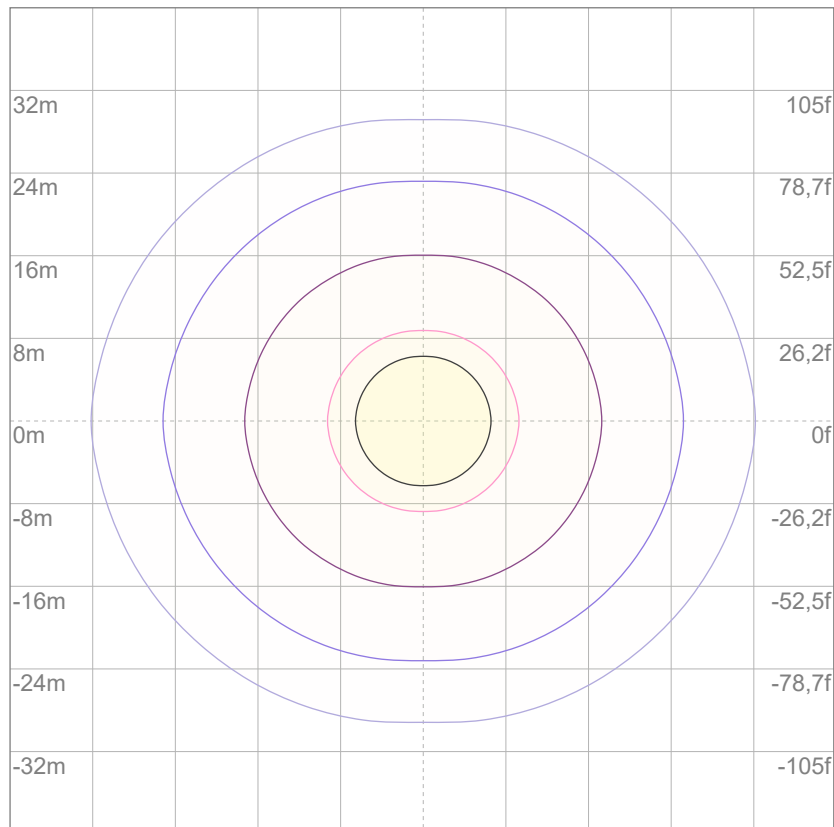
10%	29 cd
20%	58 cd
30%	87 cd
40%	116 cd
50%	145 cd
60%	174 cd
70%	203 cd
80%	232 cd

Conditions:

Number of c-planes: 4

Candela at center: 290 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	86,9m lx
5%	0,145 lx
10%	0,290 lx
30%	0,869 lx
50%	1,45 lx

Conditions:

Number of c-planes: 4

Lux at center: 2,90 lx

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

Total lumen output:

452 lm

Peak candela output:

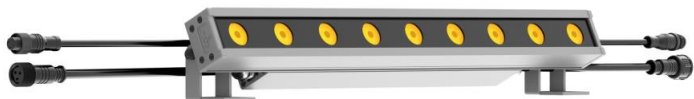
577 cd

Light quality:

CRI: 84,4

Color temperature:

3025 K



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 10°x 60°

Target:

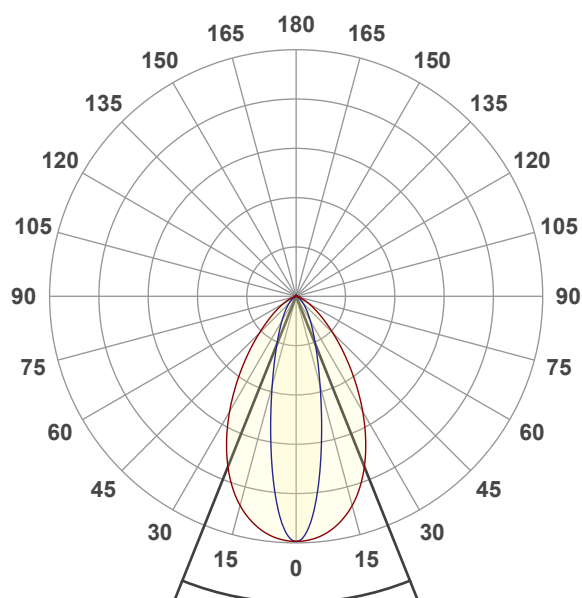
White

Operator:

Paolo Carvone

Date and time:

11/07/2022 10:50:59

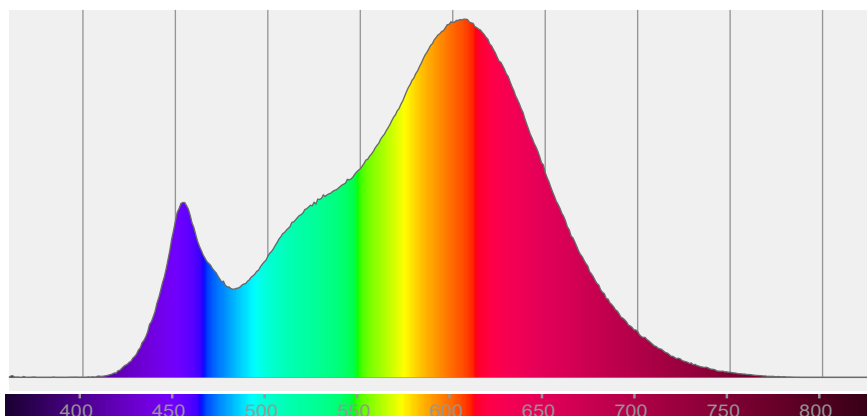


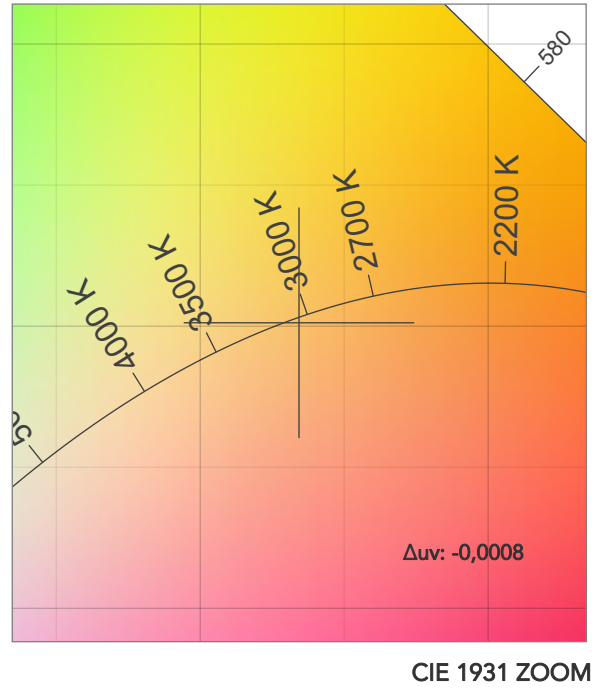
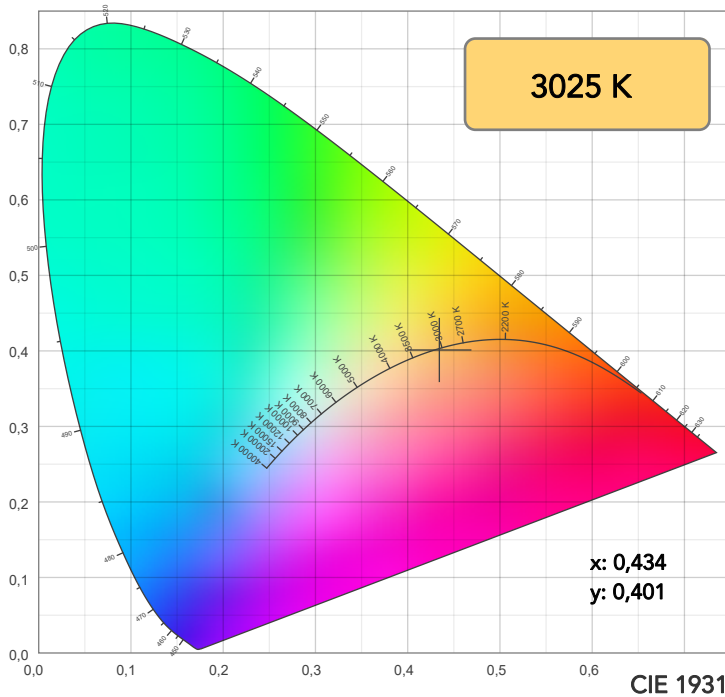
Beam angle 50%: 43,6°

Field angle 10%: 86,6°

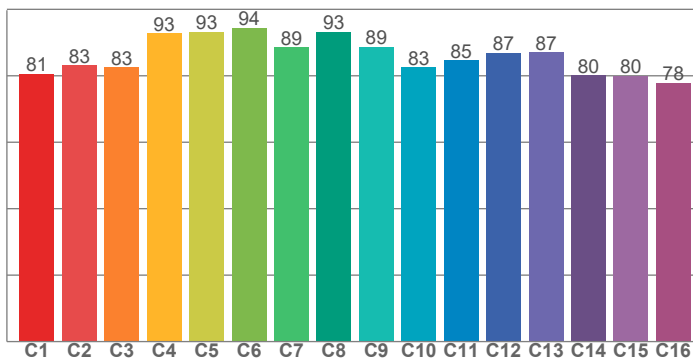
Cut off angle 2.5%: 120,1°

Spectra

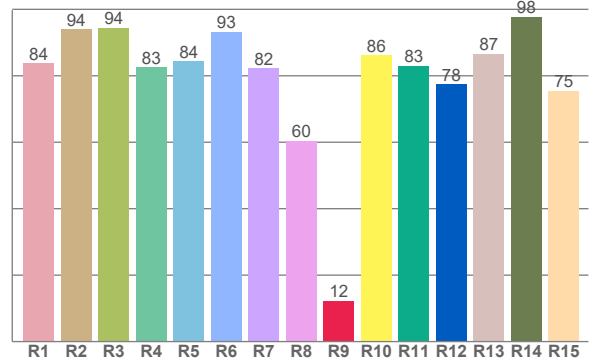




TM30: 86,2



CRI: 84,4 (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
83,9	94,0	94,5	82,6	84,4	93,2	82,2	60,5	12,3	86,2	83,1	77,5	86,7	97,7	75,5

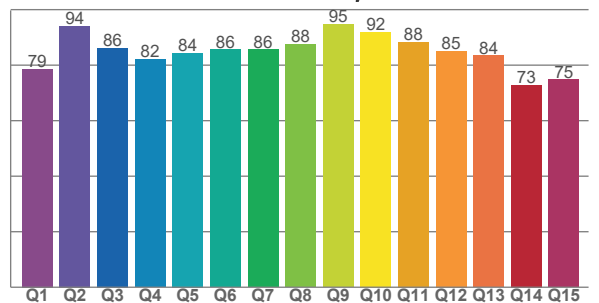
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,6	83,1	82,5	92,7	93,2	94,4	88,5	93,2	88,7	82,5	84,7	86,9	87,0	80,1	79,9	77,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,6	94,1	86,2	82,1	84,4	85,5	85,7	87,5	94,7	92,0	88,3	85,1	83,5	72,8	74,7

CQS: 83,7



COLOR PARAMETERS

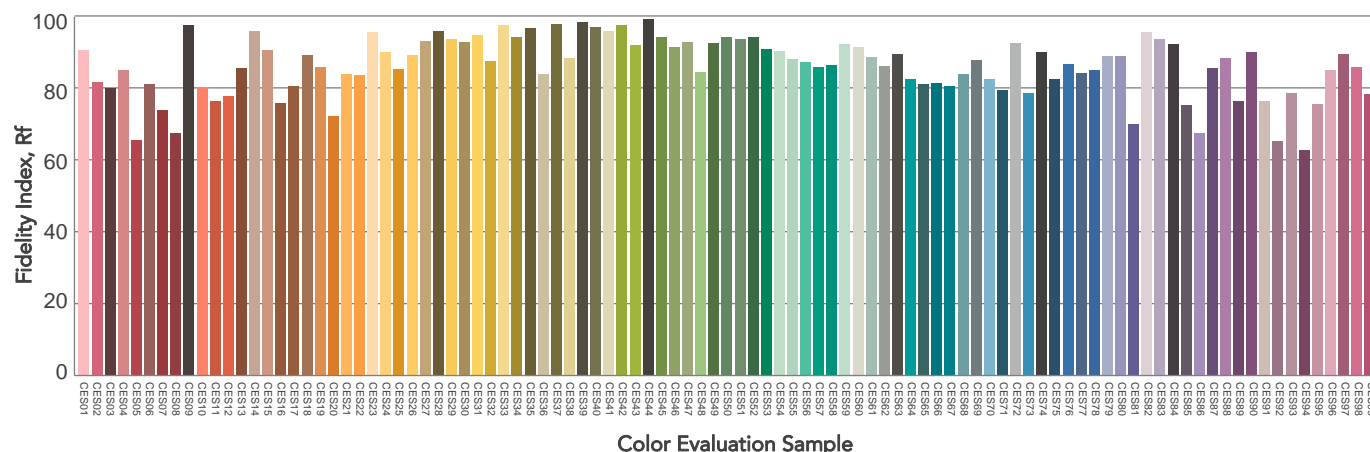
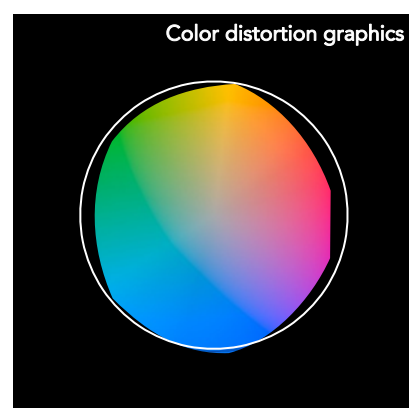
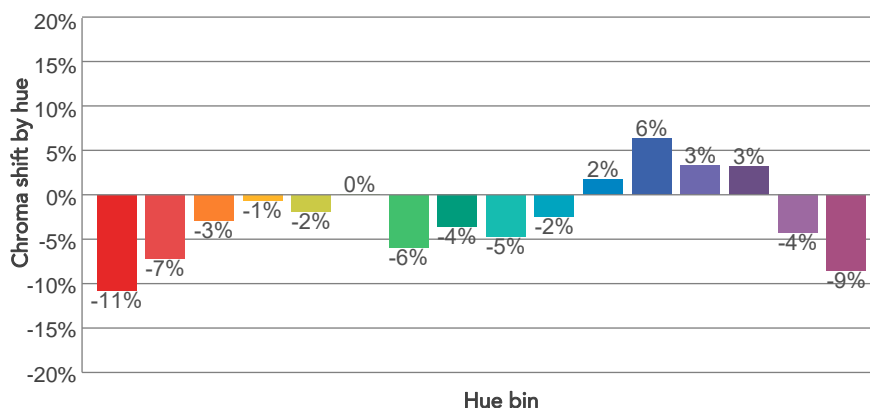
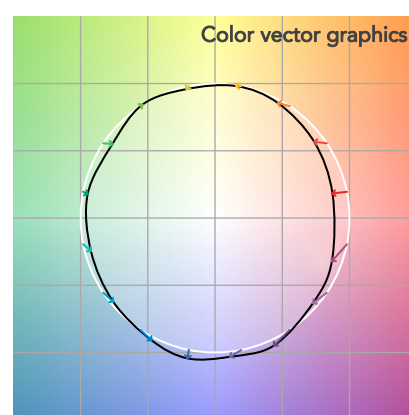
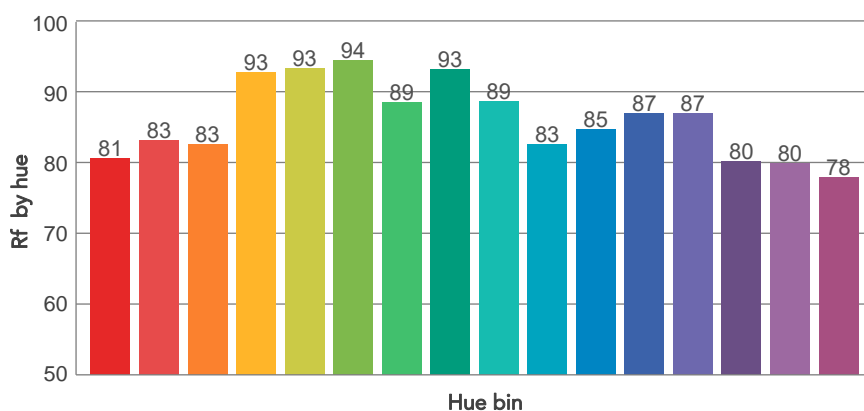
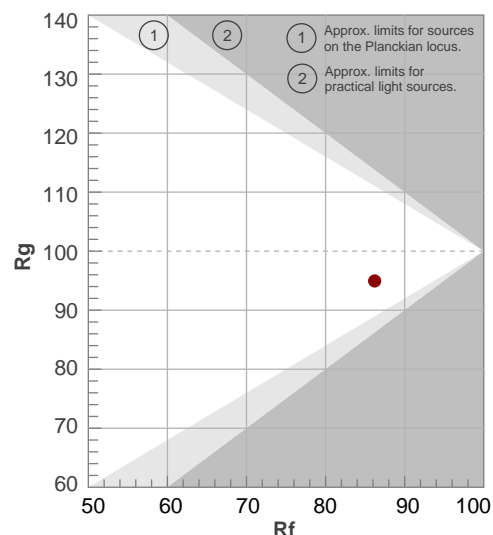
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3025 K	84,4	12,3	86,2	94,9	83,7	72	0,434	0,401	-0,0008

TM30 DETAILS

Rf 86,2
Fidelity index Rf

Rg 94,9
Gammut index

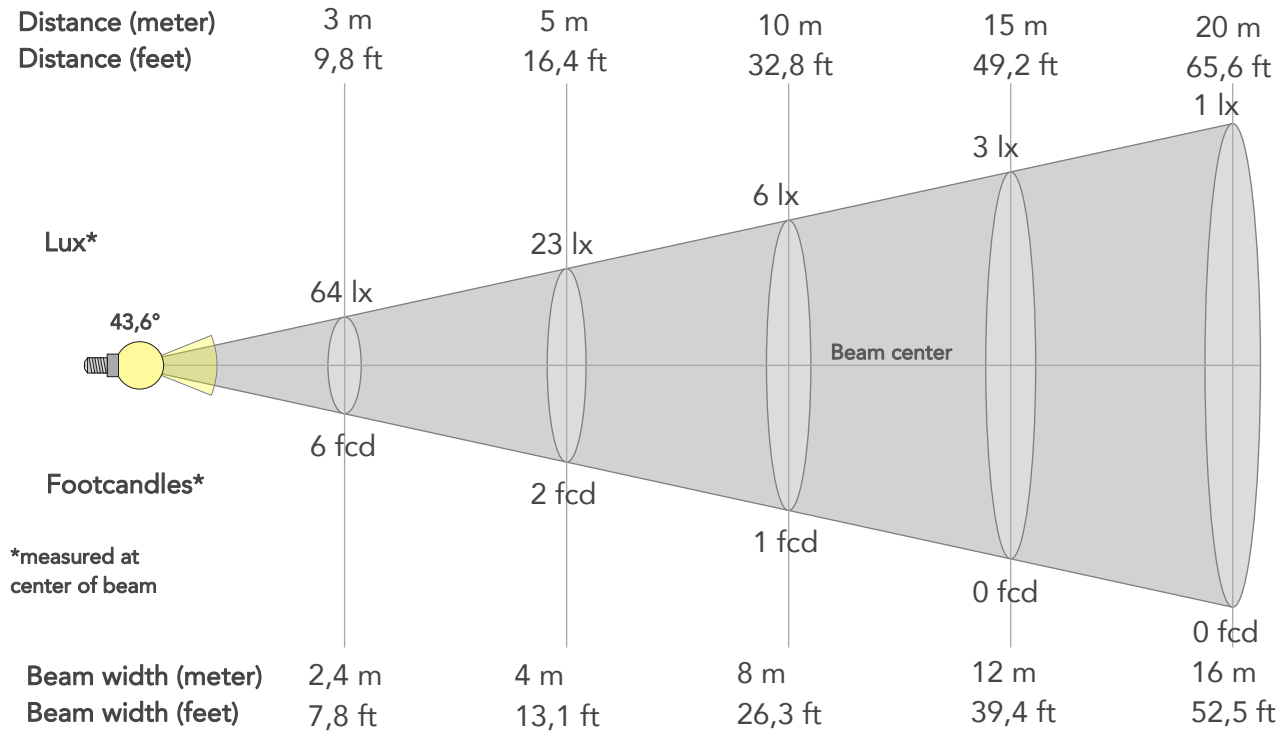
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	83	-3%	9%
4	93	-1%	4%
5	93	-2%	2%
6	94	0%	-2%
7	89	-6%	-3%
8	93	-4%	1%
9	89	-5%	6%
10	83	-2%	10%
11	85	2%	11%
12	87	6%	0%
13	87	3%	-9%
14	80	3%	-16%
15	80	-4%	-12%
16	78	-9%	-15%



BEAM DETAILS



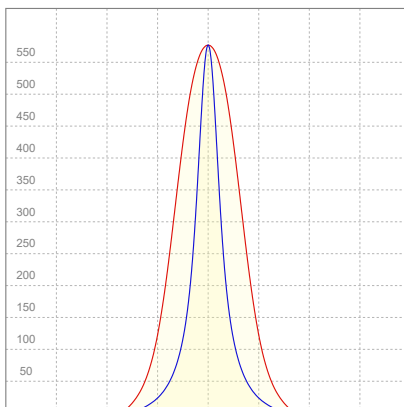
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
43,6°	86,6°	120,1°	96,7%	84,6%



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	577lx	144lx	64lx	36lx	23lx	10lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	54fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,6m	2,4m	3,2m	4m	6m	8m	12m	16m	20m	24m	32m	40m
Beam wid.	2,6ft	5,3ft	7,8ft	10,5ft	13,1ft	19,7ft	26,3ft	39,4ft	52,5ft	65,6ft	78,8ft	105ft	131,3ft

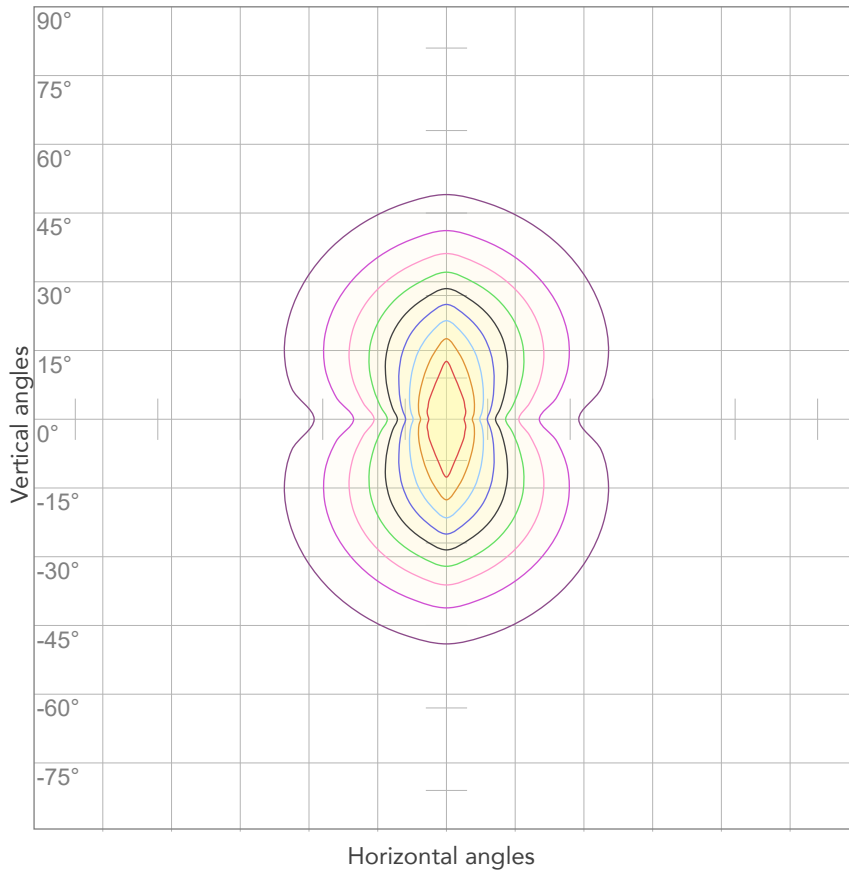
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,076A	12,5W	36lm/W

ISO CANDELA DIAGRAM



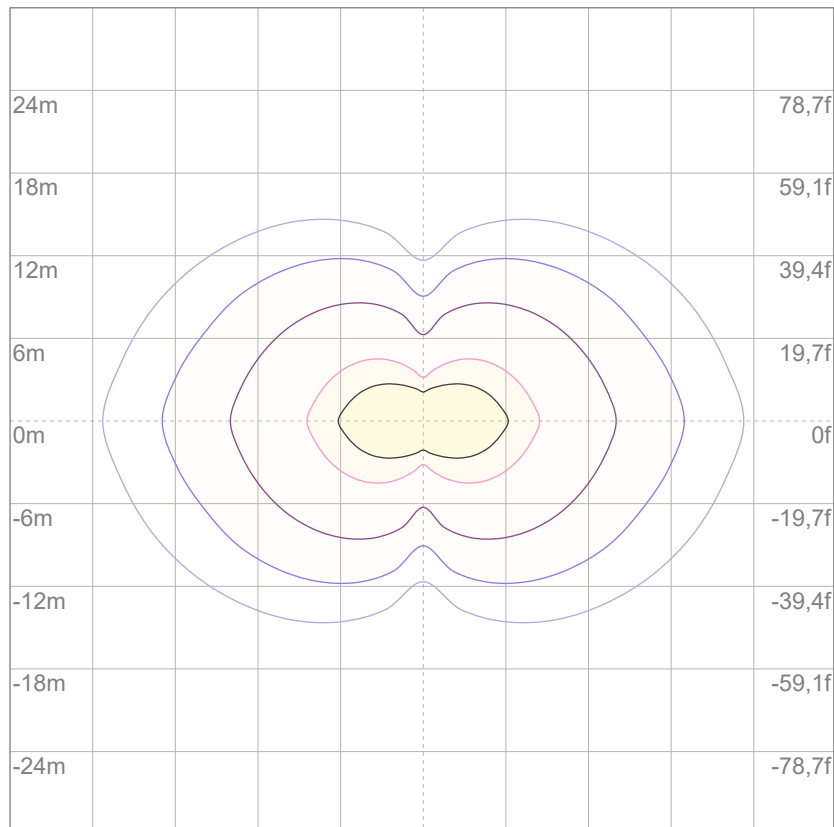
10%	58 cd
20%	115 cd
30%	173 cd
40%	231 cd
50%	288 cd
60%	346 cd
70%	404 cd
80%	461 cd

Conditions:

Number of c-planes: 4

Candela at center: 577 cd

ISO LUX DIAGRAM



3%	0,173 lx
5%	0,288 lx
10%	0,577 lx
30%	1,73 lx
50%	2,88 lx

Conditions:

Number of c-planes: 4

Lux at center: 5,77 lx

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

Total lumen output:

413 lm

Peak candela output:

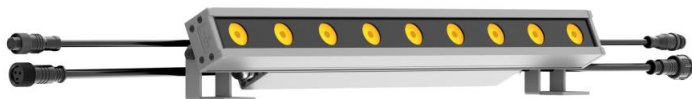
364 cd

Light quality:

CRI: 85,1

Color temperature:

3066 K



PRODUCT NAME:

ARCSHINES9FC

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 30°x60°

Target:

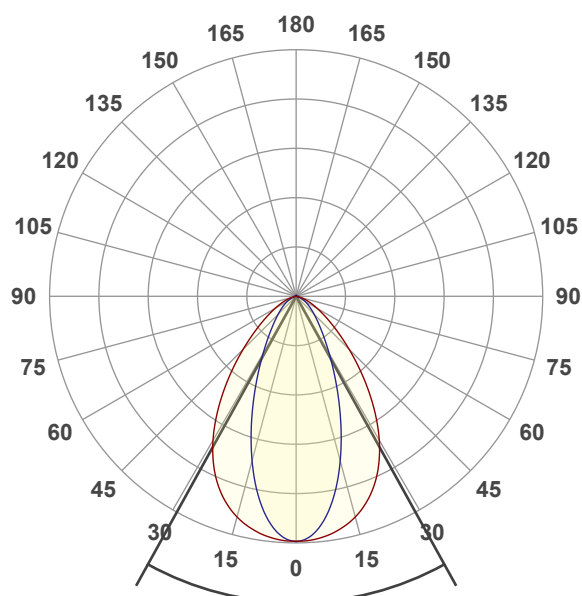
White

Operator:

Paolo Carvone

Date and time:

11/07/2022 11:20:17

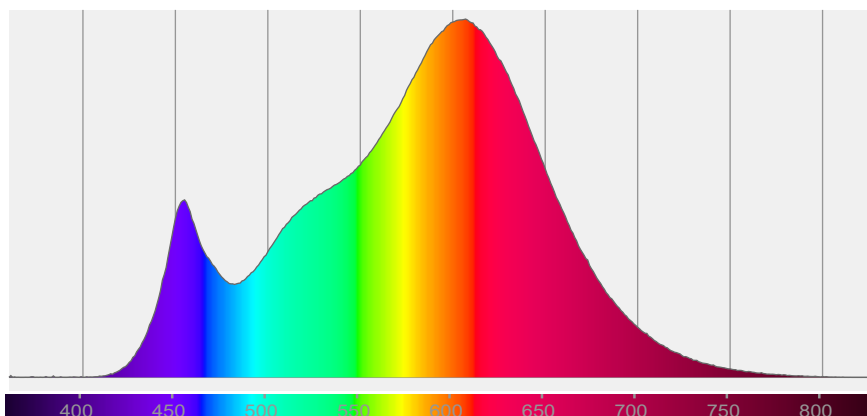


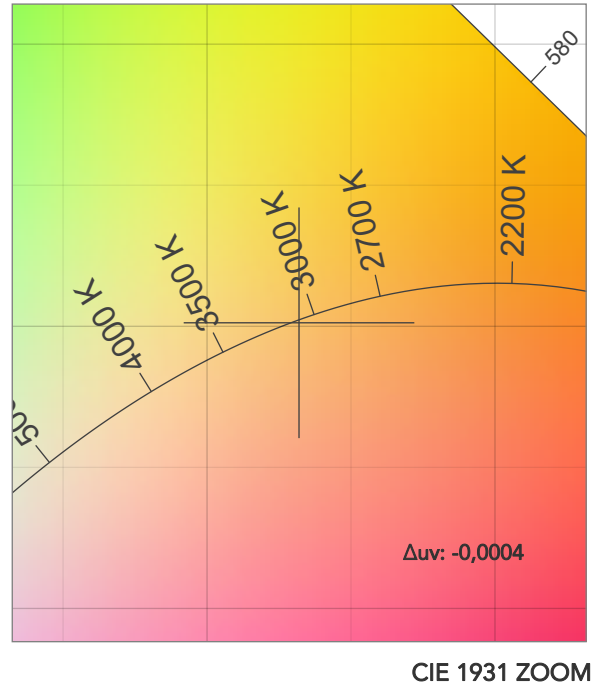
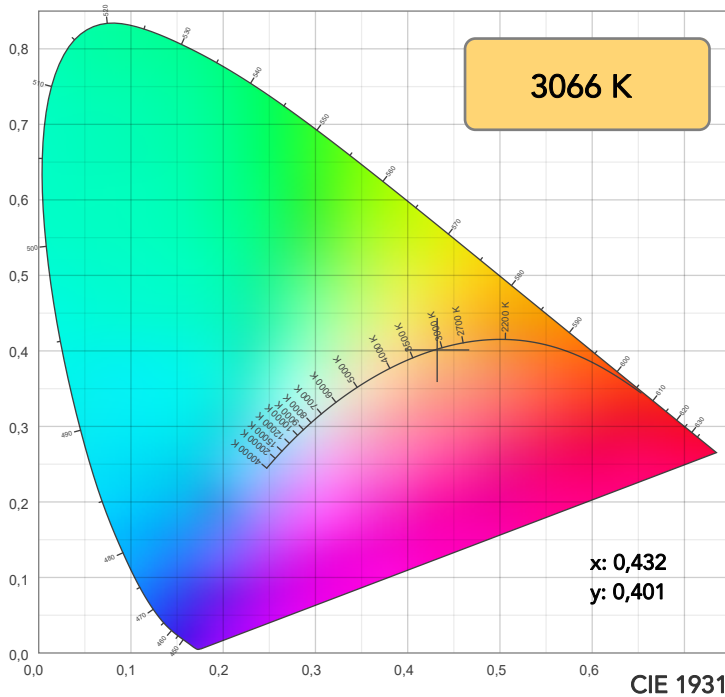
Beam angle 50%: 57,9°

Field angle 10%: 105,7°

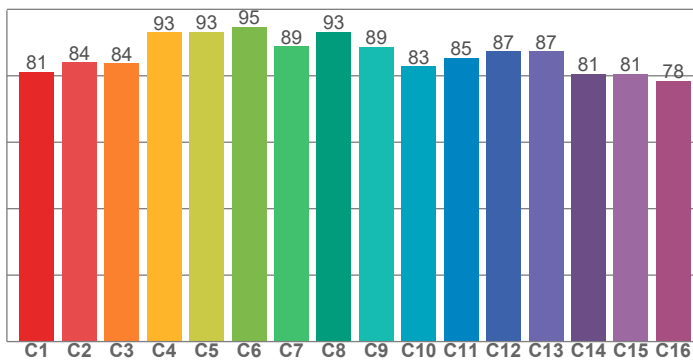
Cut off angle 2.5%: 140,4°

Spectra

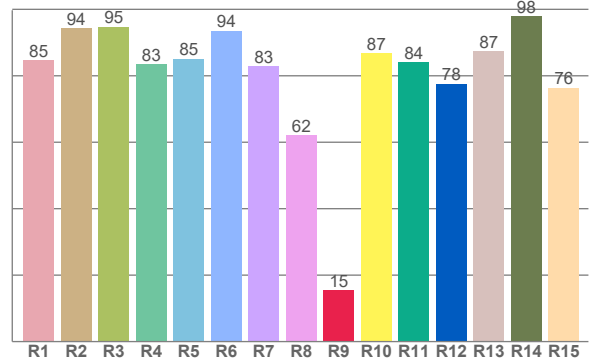




TM30: 86,7



CRI: 85,1 (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
84,6	94,3	94,8	83,5	85,1	93,6	83,0	62,0	15,4	86,8	84,1	77,6	87,3	97,9	76,4

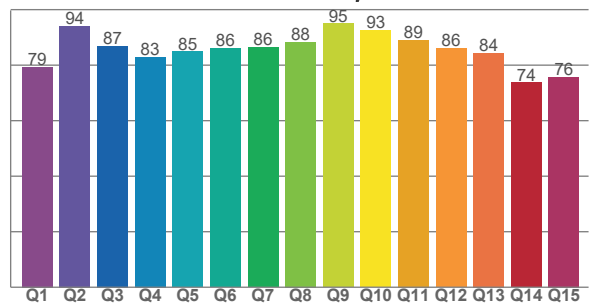
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,2	84,0	83,8	93,1	93,3	94,7	88,8	93,3	88,8	82,8	85,4	87,4	87,3	80,7	80,6	78,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,3	94,2	86,9	82,9	84,9	86,1	86,4	88,4	94,9	92,5	89,1	86,1	84,4	73,8	75,7

CQS: 84,4



COLOR PARAMETERS

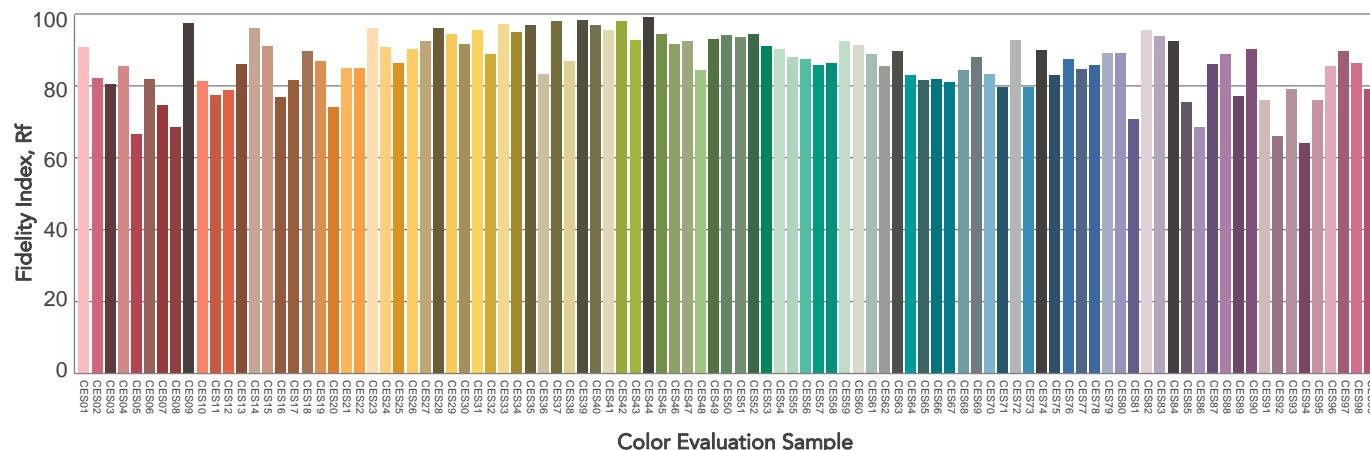
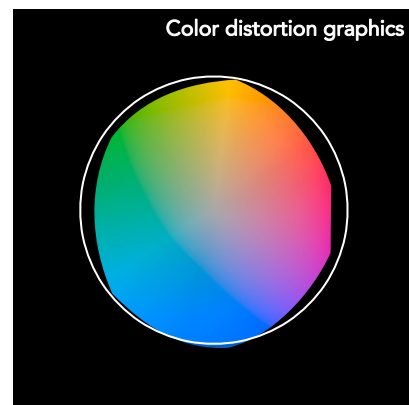
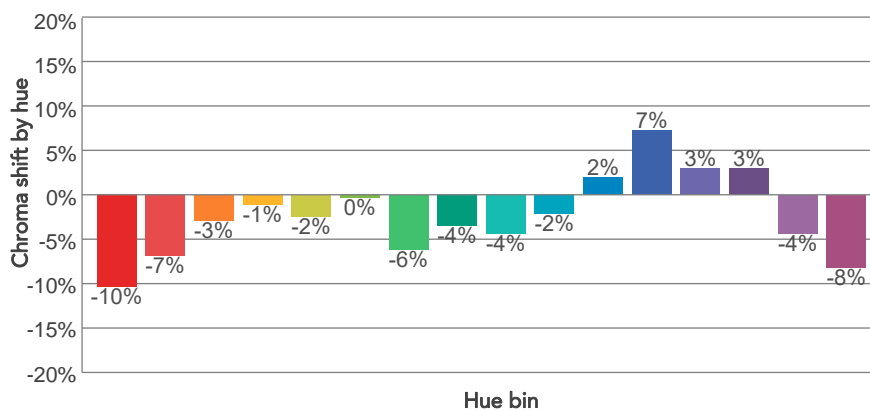
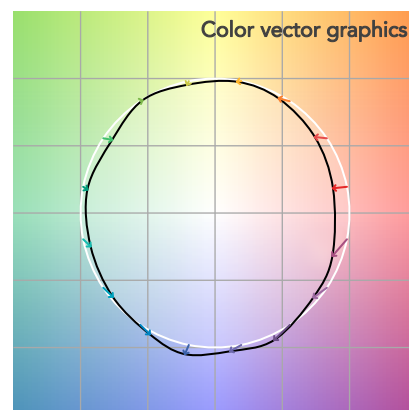
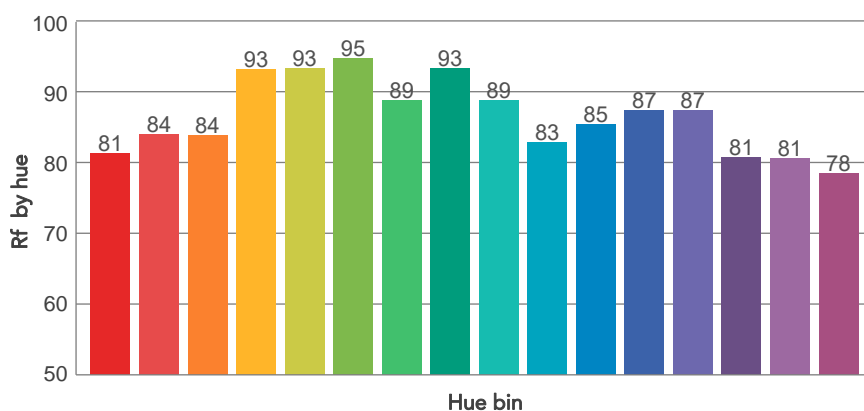
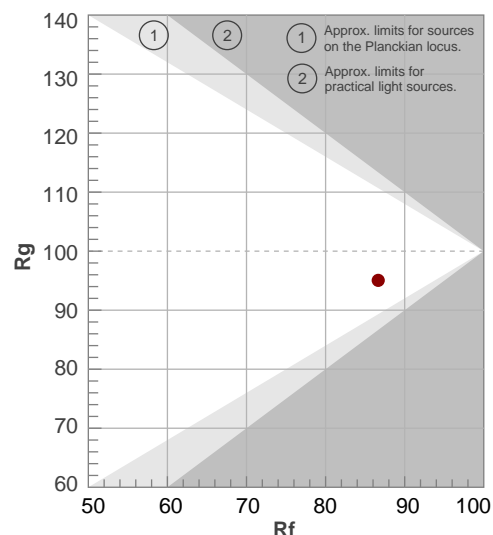
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3066 K	85,1	15,4	86,7	95,1	84,4	73	0,432	0,401	-0,0004

TM30 DETAILS

Rf 86,7
Fidelity index Rf

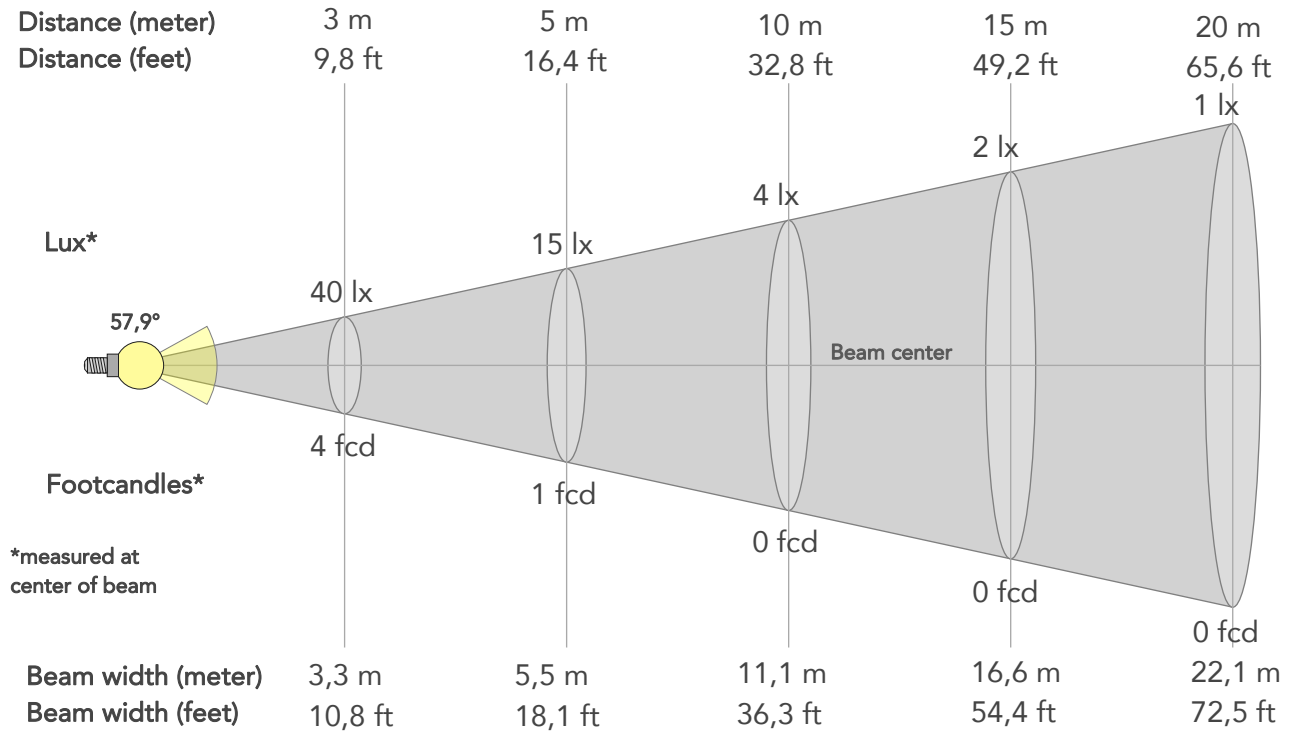
Rg 95,1
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-10%	1%
2	84	-7%	6%
3	84	-3%	8%
4	93	-1%	3%
5	93	-2%	2%
6	95	0%	-2%
7	89	-6%	-3%
8	93	-4%	1%
9	89	-4%	6%
10	83	-2%	10%
11	85	2%	10%
12	87	7%	-2%
13	87	3%	-9%
14	81	3%	-16%
15	81	-4%	-12%
16	78	-8%	-14%



BEAM DETAILS

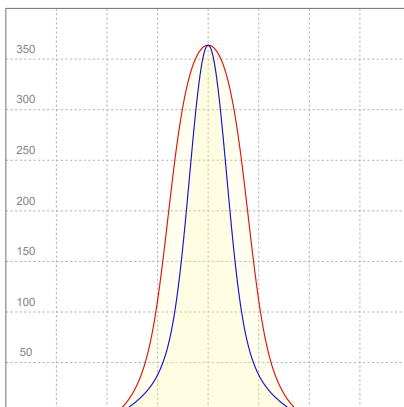
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57,9°	105,7°	140,4°	94,3%	79,9%



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	364lx	91lx	40lx	23lx	15lx	6lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	34fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,3m	4,4m	5,5m	8,3m	11,1m	16,6m	22,1m	27,6m	33,2m	44,2m	55,3m
Beam wid.	3,6ft	7,3ft	10,8ft	14,5ft	18,1ft	27,2ft	36,3ft	54,4ft	72,5ft	90,7ft	108,8ft	145,1ft	181,3ft

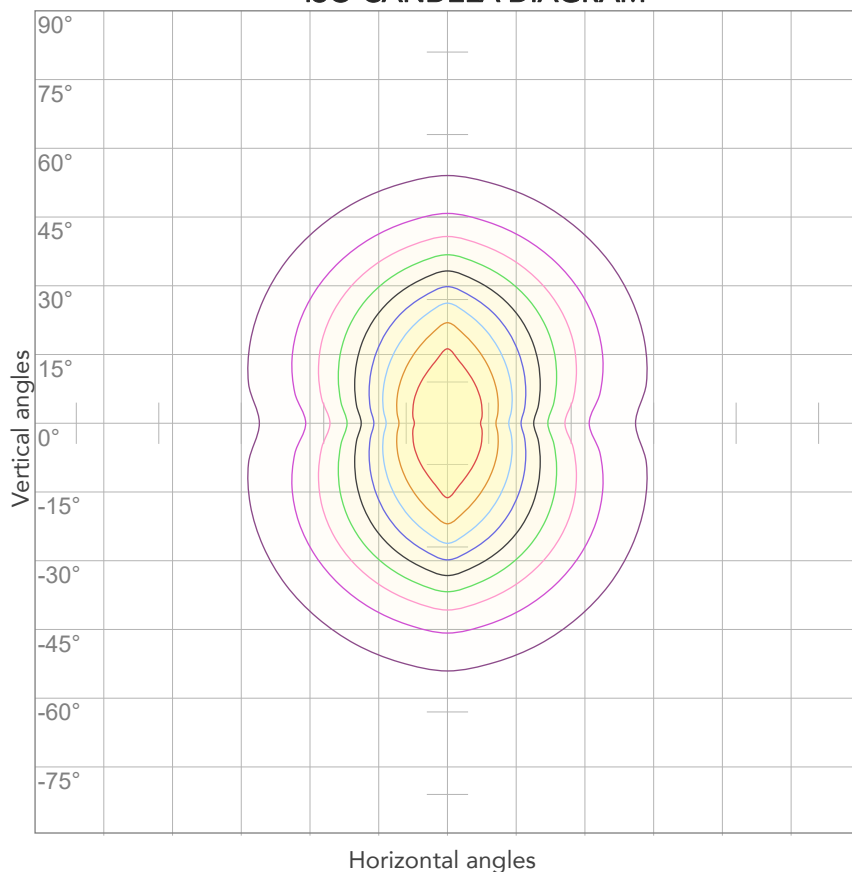
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,076A	12,7W	32lm/W

ISO CANDELA DIAGRAM



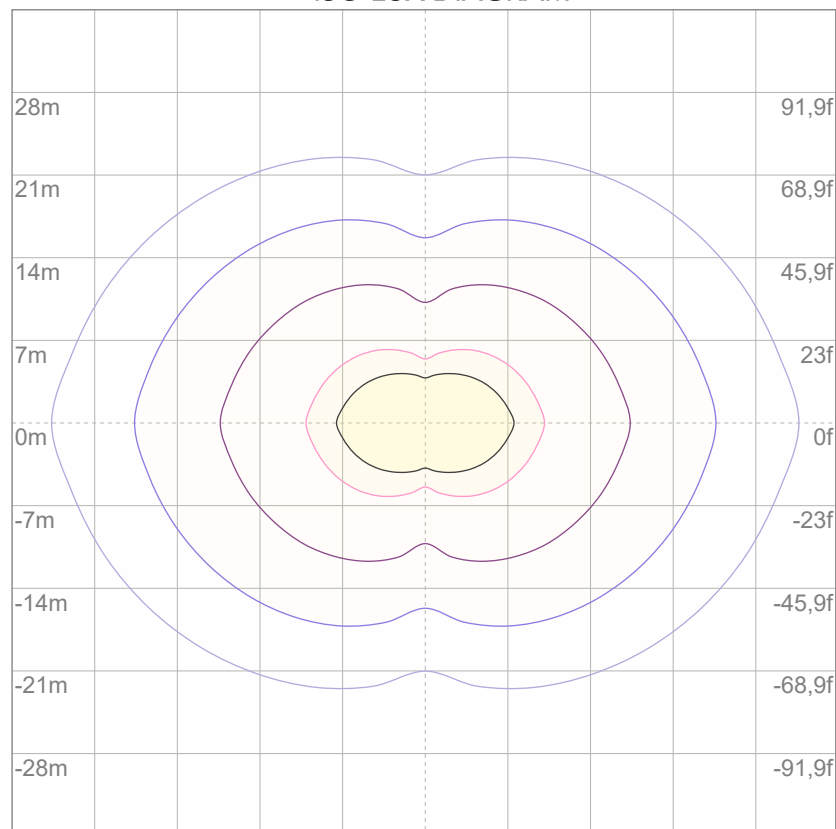
10%	36 cd
20%	73 cd
30%	109 cd
40%	145 cd
50%	182 cd
60%	218 cd
70%	255 cd
80%	291 cd

Conditions:

Number of c-planes: 4

Candela at center: 364 cd

ISO LUX DIAGRAM



3%	0,109 lx
5%	0,182 lx
10%	0,364 lx
30%	1,09 lx
50%	1,82 lx

Conditions:

Number of c-planes: 4

Lux at center: 3,64 lx

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