Photometric Test Report

ARCSHINES18FC

18 x 2 W IP66 RGB + Warm White

architectural linear bar, 100 cm

CONTENTS

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:

1168 lm

Peak candela output:

5817 cd

PRODUCT NAME:

ARCSHINES18FC

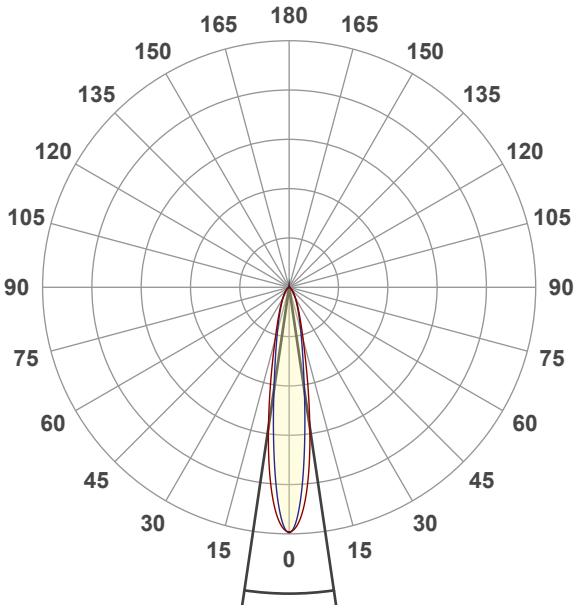
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
Full on

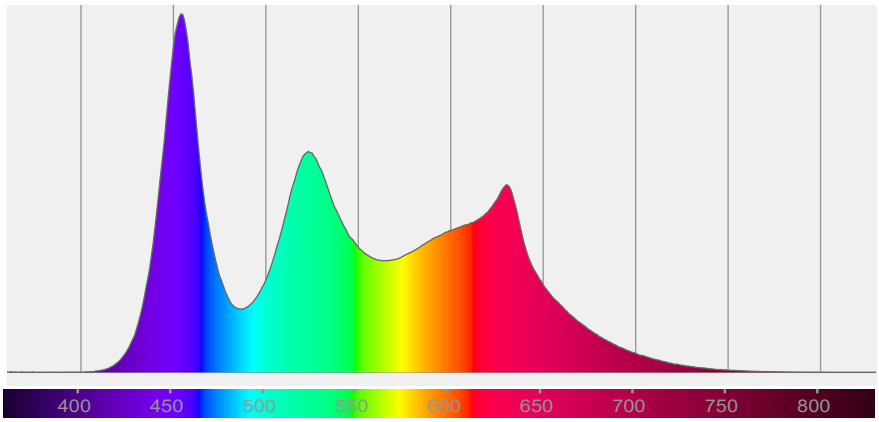
Operator:
Paolo Carvone

Date and time:
29/03/2022 17:55:38



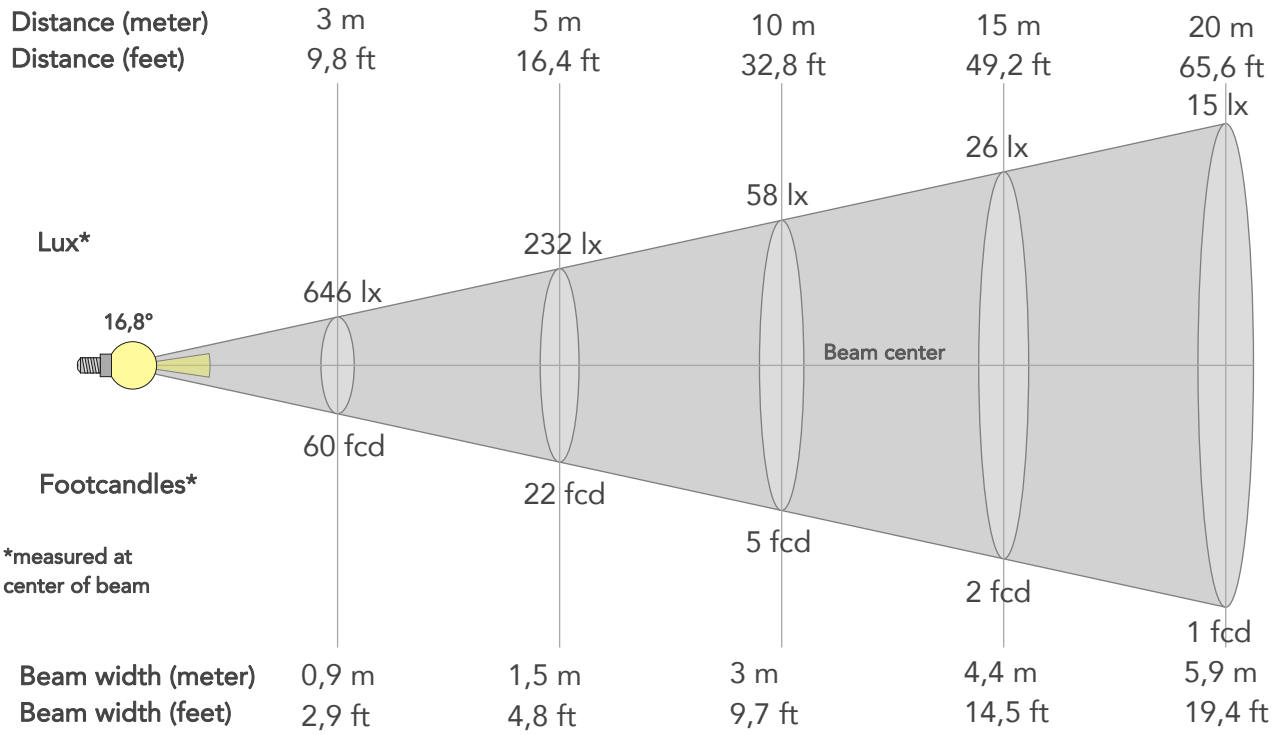
Beam angle 50%: 16,8°
Field angle 10%: 43,7°
Cut off angle 2.5%: 78,9°

Spectra



BEAM DETAILS

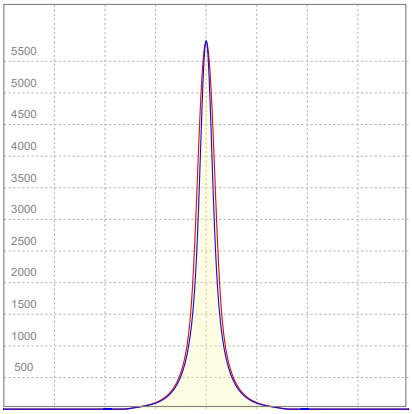
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,8°	43,7°	78,9°	98,3%	91,6%



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	5812lx	1453lx	646lx	363lx	232lx	103lx	58lx	26lx	15lx	9lx	6lx	4lx	2lx
Footcand.	540fcd	135fcd	60fcd	34fcd	22fcd	10fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,2m	3m	4,4m	5,9m	7,4m	8,9m	11,8m	14,8m
Beam wid.	1ft	1,9ft	2,9ft	3,9ft	4,8ft	7,3ft	9,7ft	14,5ft	19,4ft	24,2ft	29,1ft	38,7ft	48,4ft

LINEAR DISTRIBUTION DIAGRAM



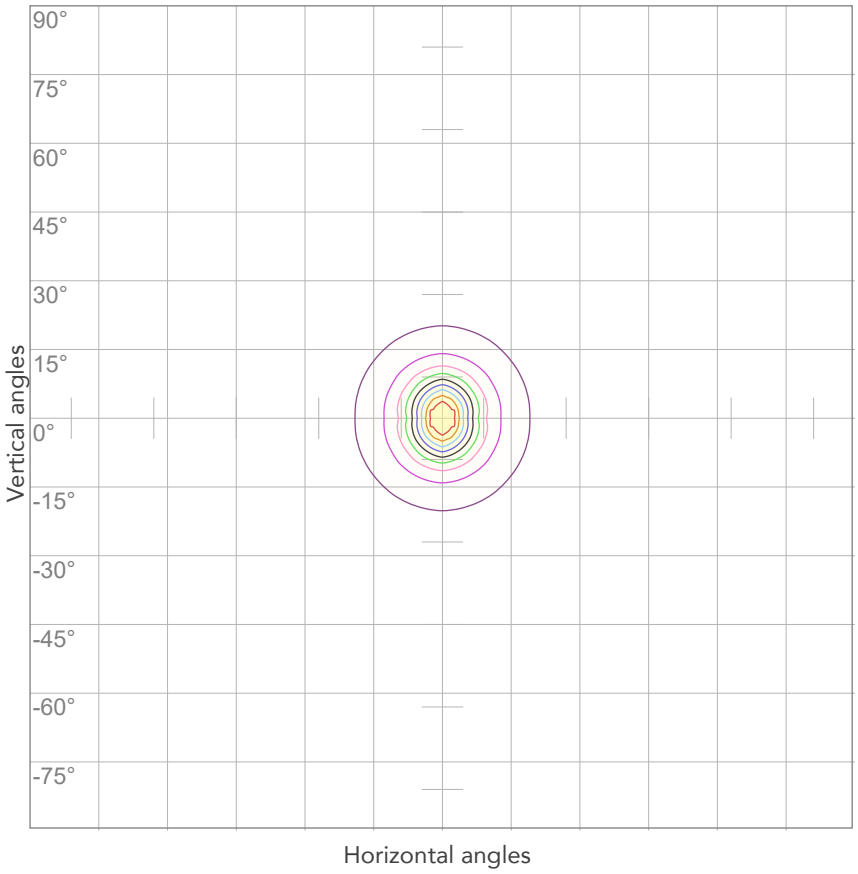
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,169A	35,9W	33lm/W

Power FC
0,94

ISO DIAGRAMS

ISO CANDELA DIAGRAM



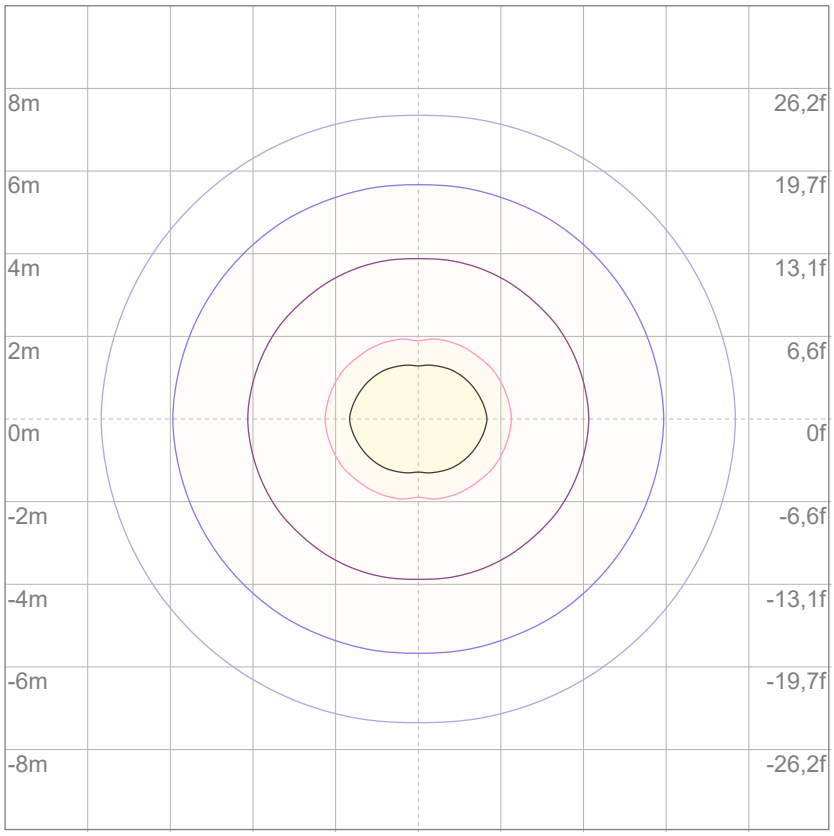
10%	581 cd
20%	1162 cd
30%	1744 cd
40%	2325 cd
50%	2906 cd
60%	3487 cd
70%	4068 cd
80%	4650 cd

Conditions:

Number of c-planes: 4

Candela at center: 5812 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,74 lx
5%	2,91 lx
10%	5,81 lx
30%	17,4 lx
50%	29,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 58,1 lx

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

Total lumen output:

1047 lm

Peak candela output:

1998 cd

PRODUCT NAME:

ARCSHINES18FC

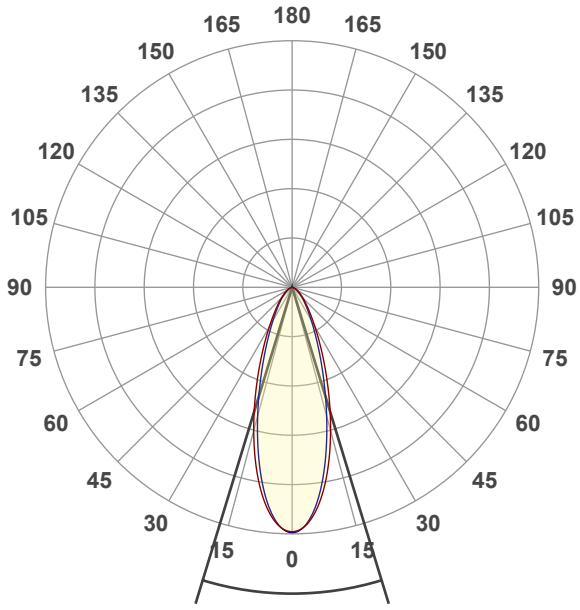
MEASURAMENT CONDITIONS:

Beam angle:
15°+20° Filter

Target:
Full on

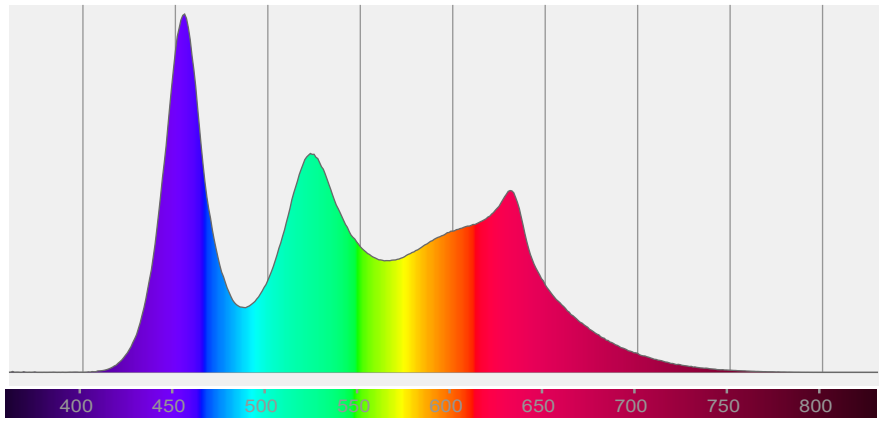
Operator:
Paolo Carvone

Date and time:
29/03/2022 18:40:10



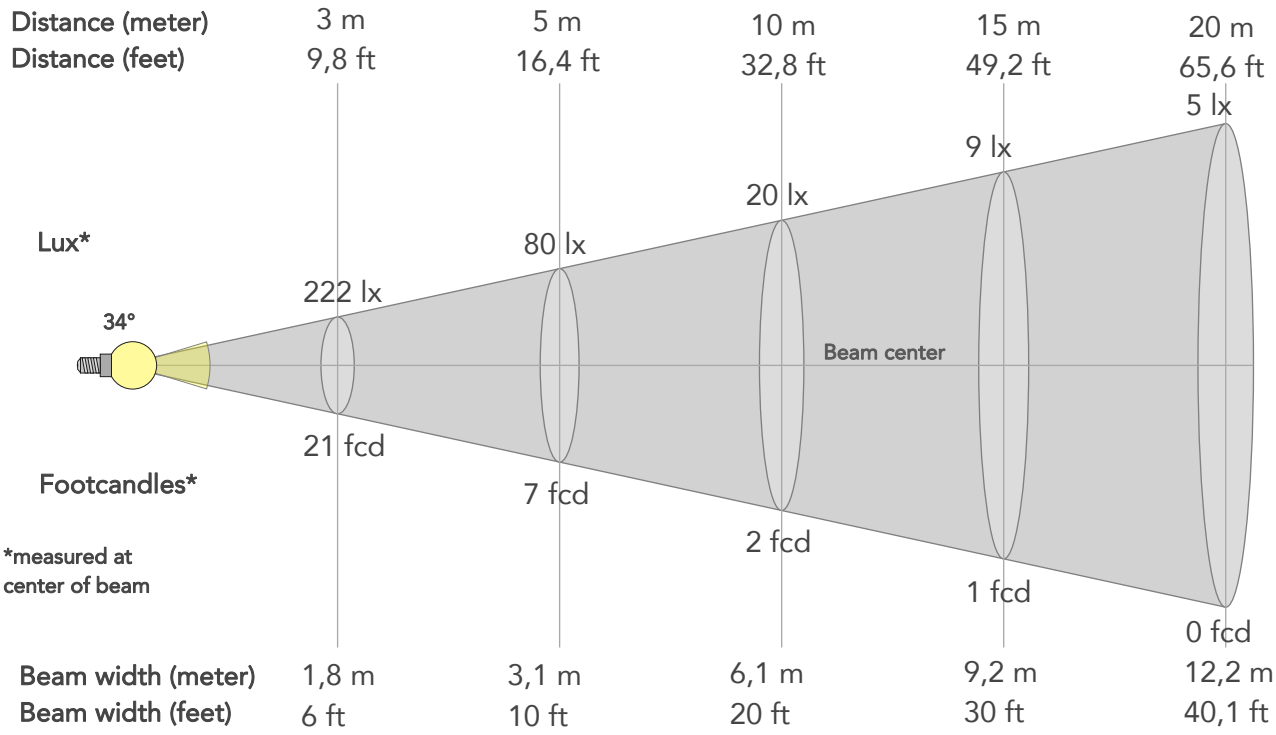
Beam angle 50%: 34°
Field angle 10%: 74,1°
Cut off angle 2.5%: 114,9°

Spectra



BEAM DETAILS

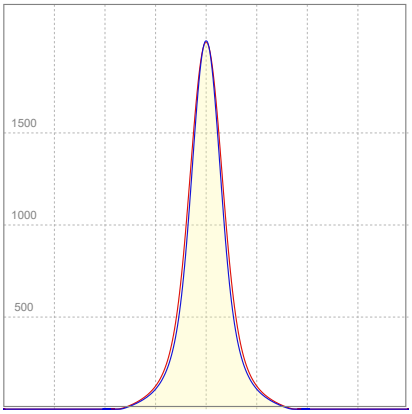
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34°	74,1°	114,9°	97,2%	88,2%



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	1995lx	499lx	222lx	125lx	80lx	35lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	185fcd	46fcd	21fcd	12fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	3,1m	4,6m	6,1m	9,2m	12,2m	15,3m	18,3m	24,4m	30,5m
Beam wid.	2ft	4ft	6ft	8ft	10ft	15ft	20ft	30ft	40,1ft	50,1ft	60,1ft	80,1ft	100,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,168A	35,4W	30lm/W

Power FC
0,94

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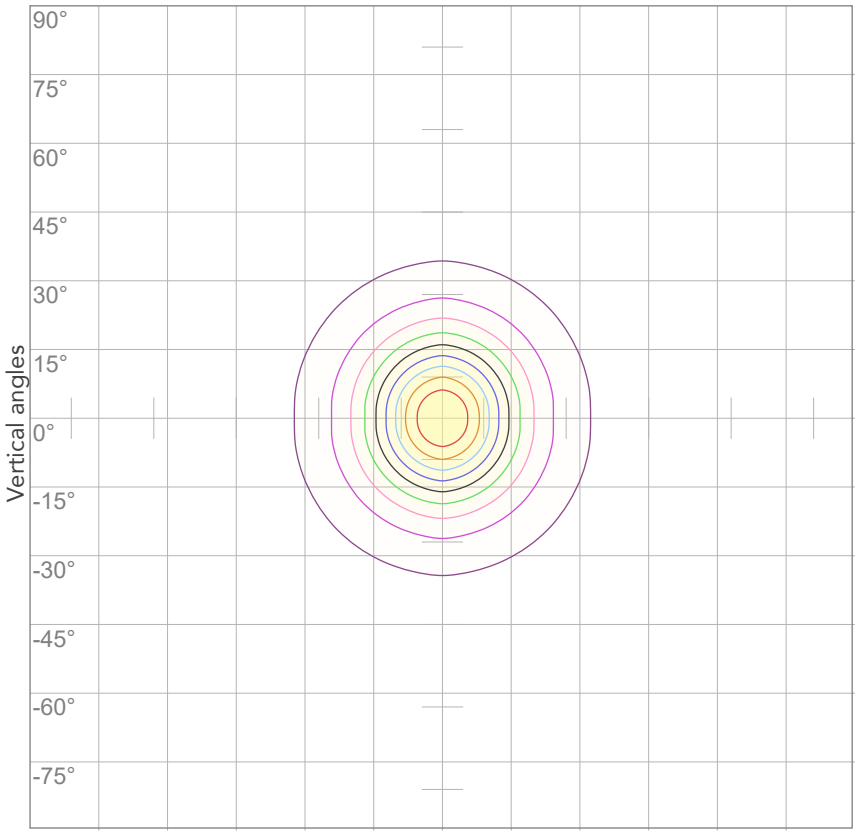
ISO DIAGRAMS

ISO CANDELA DIAGRAM



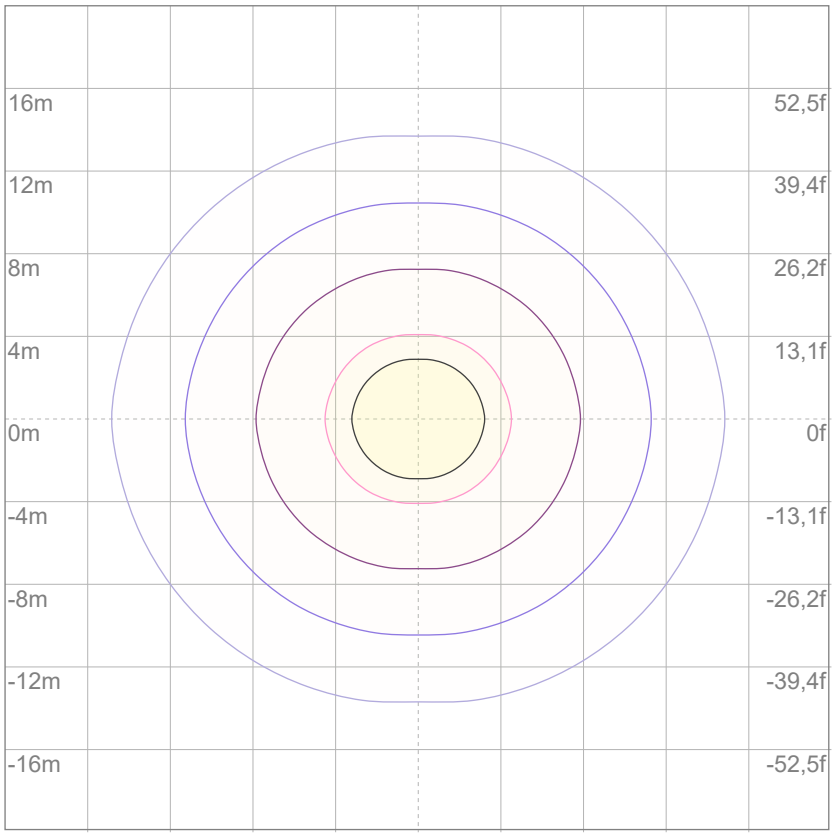
10%	200 cd
20%	399 cd
30%	599 cd
40%	798 cd
50%	998 cd
60%	1197 cd
70%	1397 cd
80%	1596 cd

Conditions:

Number of c-planes: 4

Candela at center: 1995 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,599 lx
5%	0,998 lx
10%	2,00 lx
30%	5,99 lx
50%	9,98 lx

Conditions:

Number of c-planes: 4

Lux at center: 20,0 lx

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

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Total lumen output:

1030 lm

Peak candela output:

635 cd

PRODUCT NAME:

ARCSHINES18FC

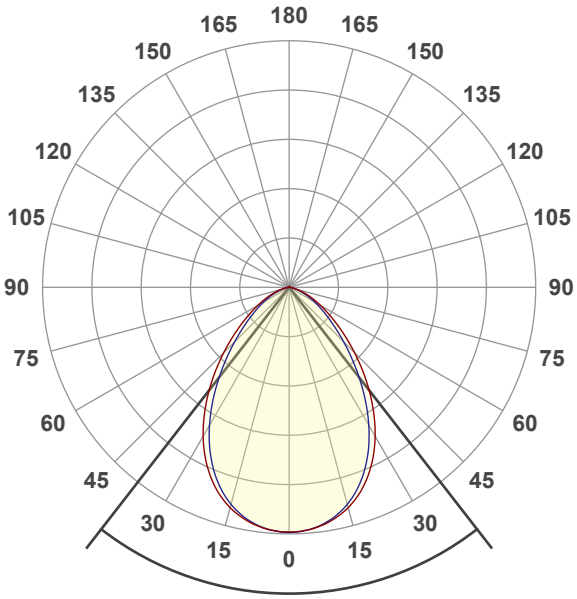
MEASURAMENT CONDITIONS:

Beam angle:
15°+60° Filter

Target:
Full on

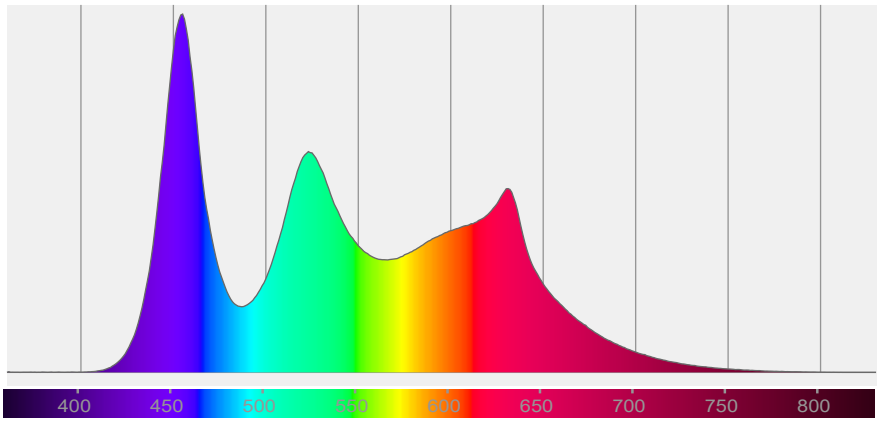
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:31:24



Beam angle 50%: 75,7°
Field angle 10%: 127,6°
Cut off angle 2.5%: 151,2°

Spectra



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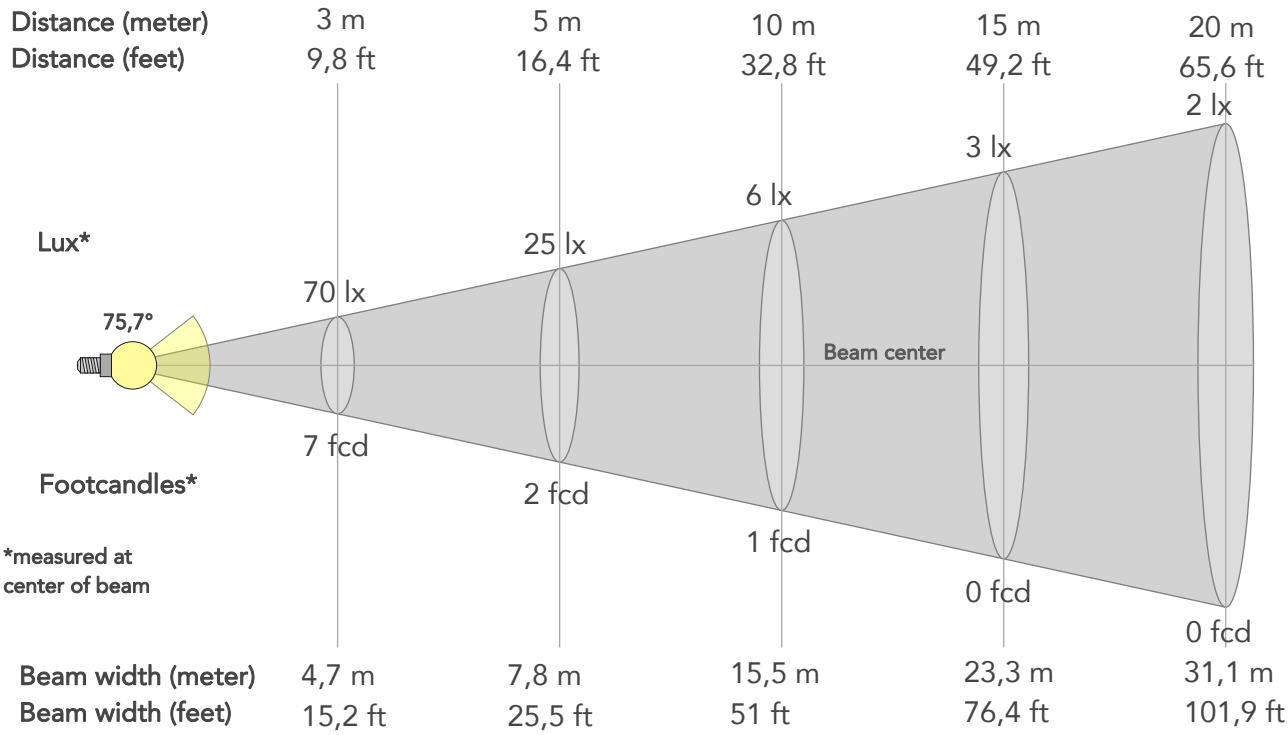
BEAM DETAILS

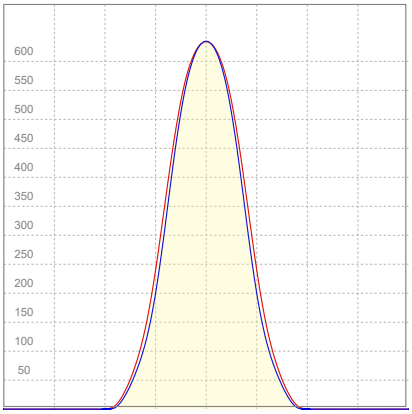
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
75,7°	127,6°	151,2°	92,3%	74,4%



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	634lx	159lx	70lx	40lx	25lx	11lx	6lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	59fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,6m	3,1m	4,7m	6,2m	7,8m	11,7m	15,5m	23,3m	31,1m	38,8m	46,6m	62,1m	77,7m
Beam wid.	5,1ft	10,3ft	15,2ft	20,4ft	25,5ft	38,2ft	51ft	76,4ft	101,9ft	127,4ft	152,9ft	203,8ft	254,8ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,169A	35,6W	29lm/W

Power FC
0,94

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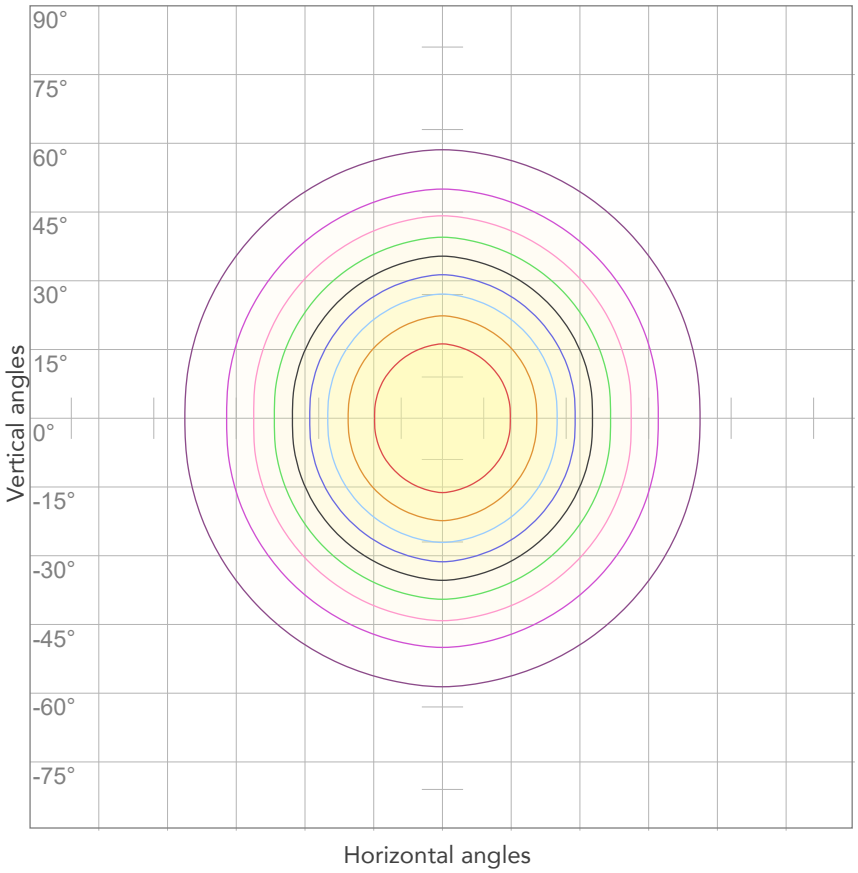
ISO DIAGRAMS

ISO CANDELA DIAGRAM



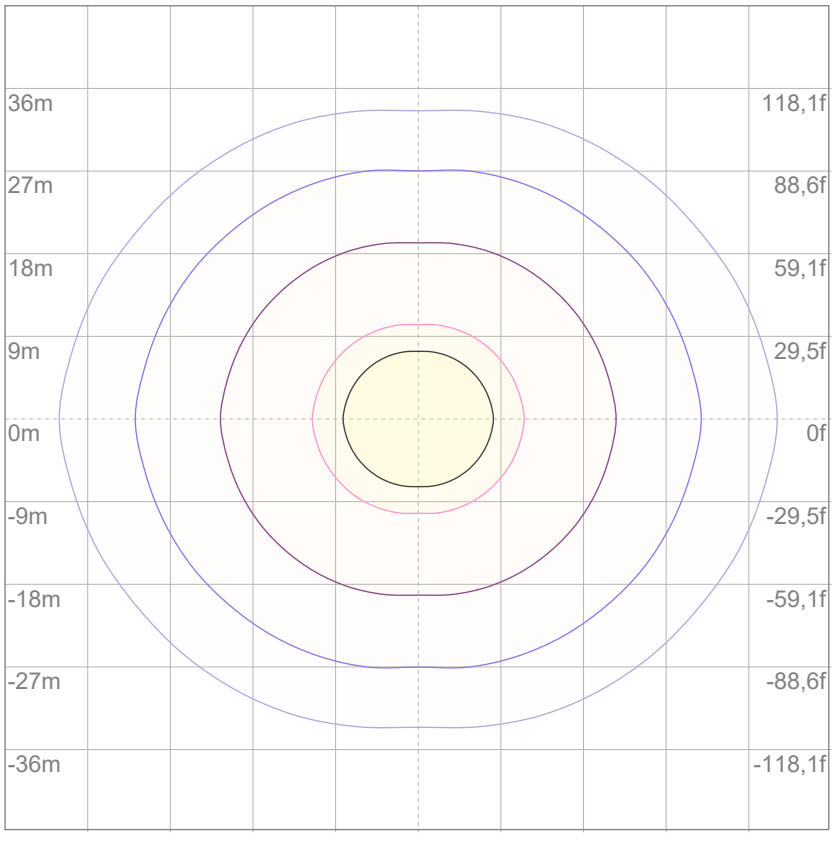
10%	63 cd
20%	127 cd
30%	190 cd
40%	254 cd
50%	317 cd
60%	381 cd
70%	444 cd
80%	507 cd

Conditions:

Number of c-planes: 4

Candela at center: 634 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,190 lx
5%	0,317 lx
10%	0,634 lx
30%	1,90 lx
50%	3,17 lx

Conditions:

Number of c-planes: 4

Lux at center: 6,34 lx

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

Total lumen output:

1339 lm

Peak candela output:

1274 cd

PRODUCT NAME:

ARCSHINES18FC

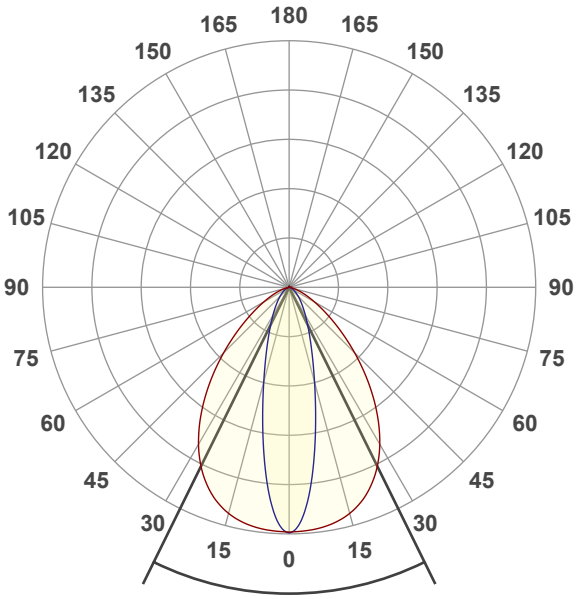
MEASURAMENT CONDITIONS:

Beam angle:
15°+10°x60° Filter

Target:
Full on

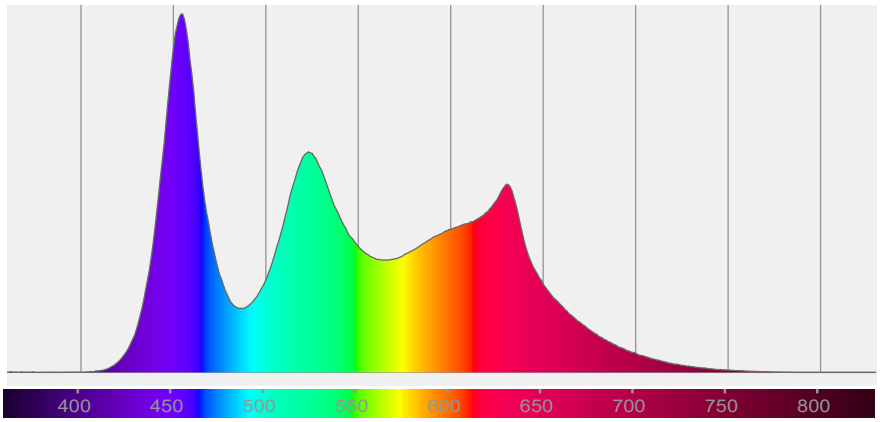
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:12:09



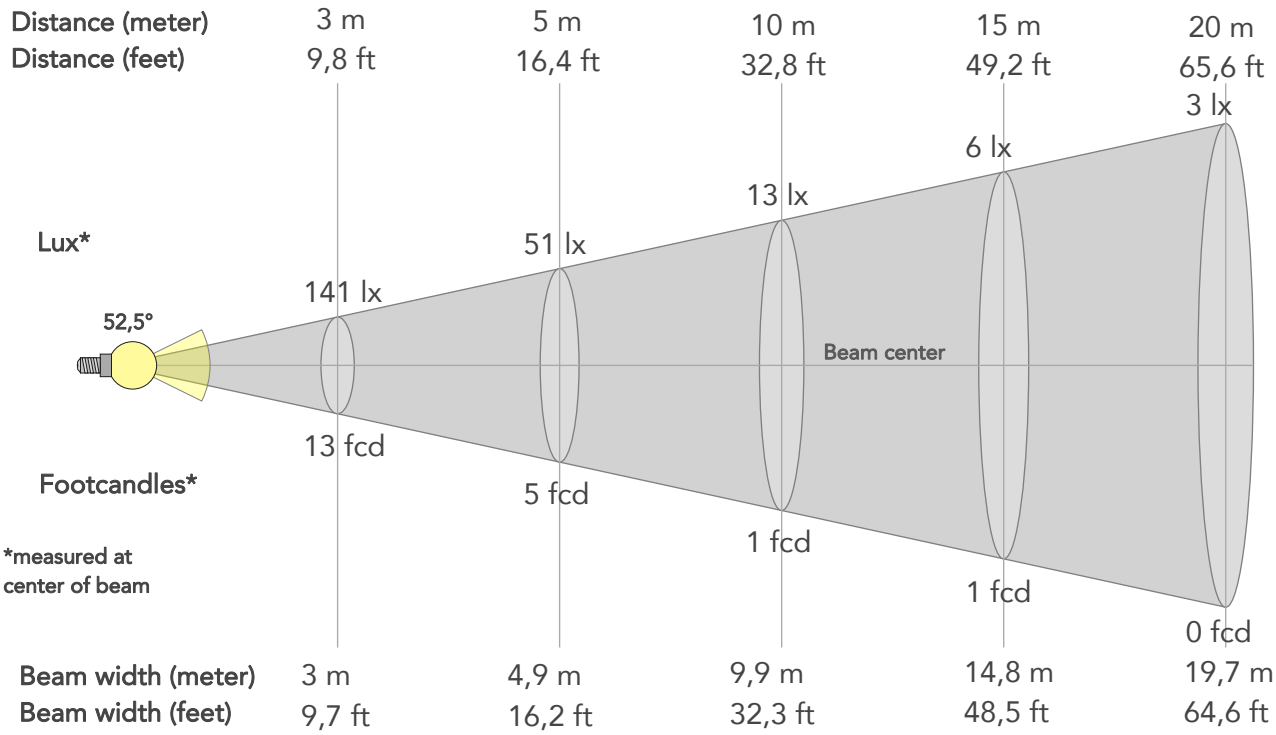
Beam angle 50%: 52,5°
Field angle 10%: 96,5°
Cut off angle 2.5%: 129,9°

Spectra



BEAM DETAILS

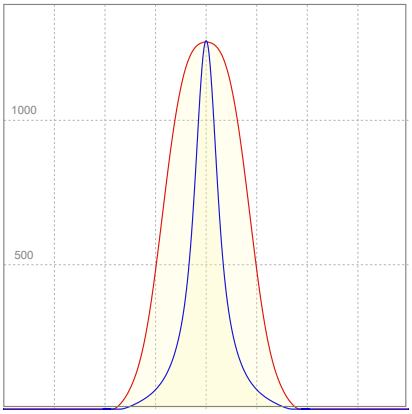
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,5°	96,5°	129,9°	94,8%	78,6%



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	1273lx	318lx	141lx	80lx	51lx	23lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	118fcd	30fcd	13fcd	7fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	3,9m	4,9m	7,4m	9,9m	14,8m	19,7m	24,6m	29,6m	39,4m	49,3m
Beam wid.	3,3ft	6,5ft	9,7ft	12,9ft	16,2ft	24,2ft	32,3ft	48,5ft	64,6ft	80,8ft	97ft	129,3ft	161,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,171A	35,8W	37lm/W

Power FC
0,94

Via A. Olivetti snc
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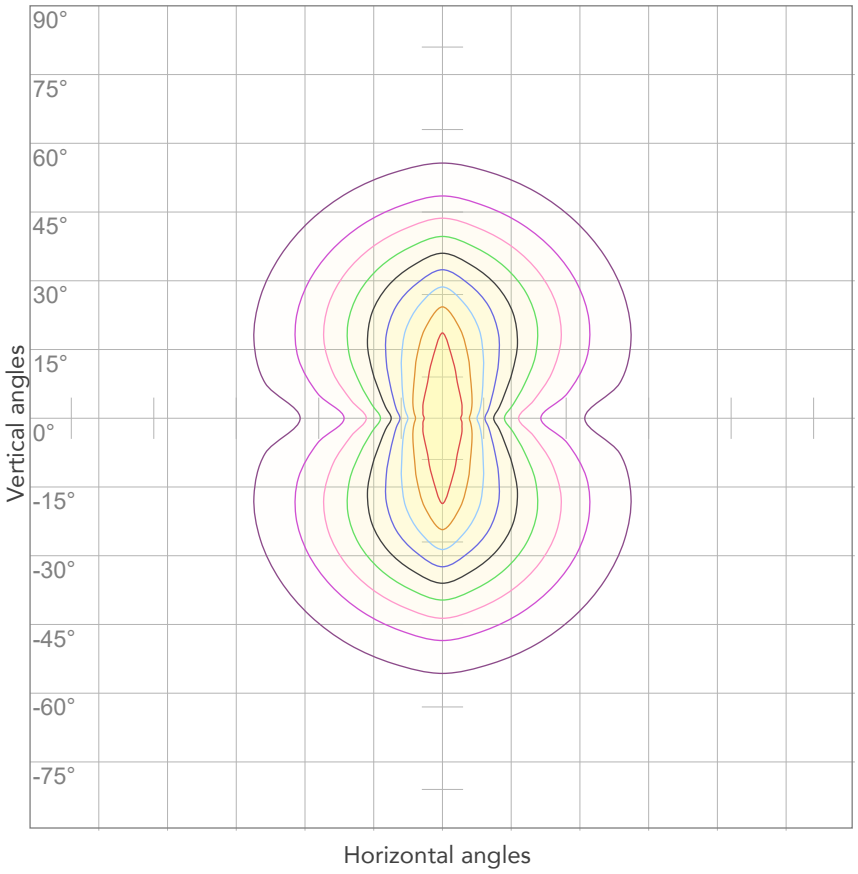
ISO DIAGRAMS

ISO CANDELA DIAGRAM



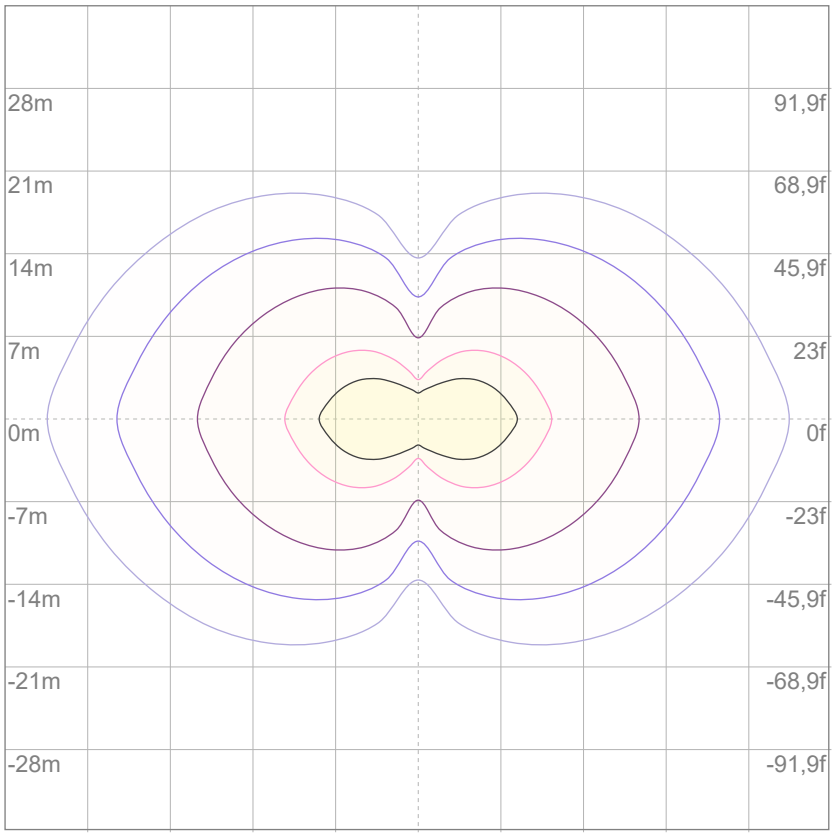
10%	127 cd
20%	255 cd
30%	382 cd
40%	509 cd
50%	636 cd
60%	764 cd
70%	891 cd
80%	1018 cd

Conditions:

Number of c-planes: 4

Candela at center: 1273 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,382 lx
5%	0,636 lx
10%	1,27 lx
30%	3,82 lx
50%	6,36 lx

Conditions:

Number of c-planes: 4

Lux at center: 12,7 lx

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

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Total lumen output:

1093 lm

Peak candela output:

1018 cd

PRODUCT NAME:

ARCSHINES18FC

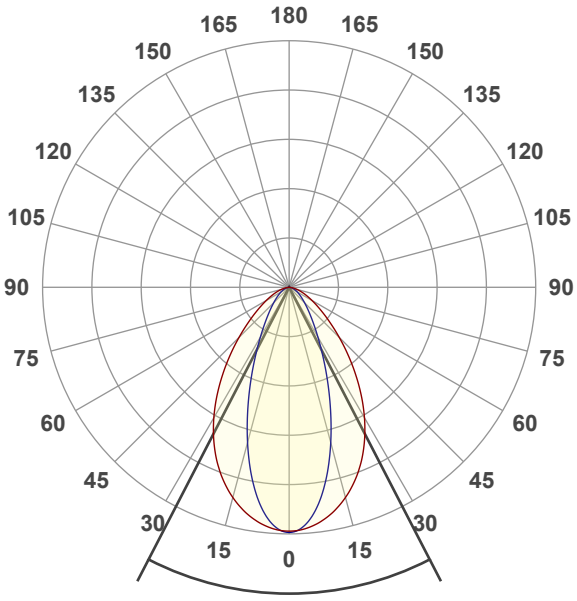
MEASURAMENT CONDITIONS:

Beam angle:
15°+30°x60° Filter

Target:
Full on

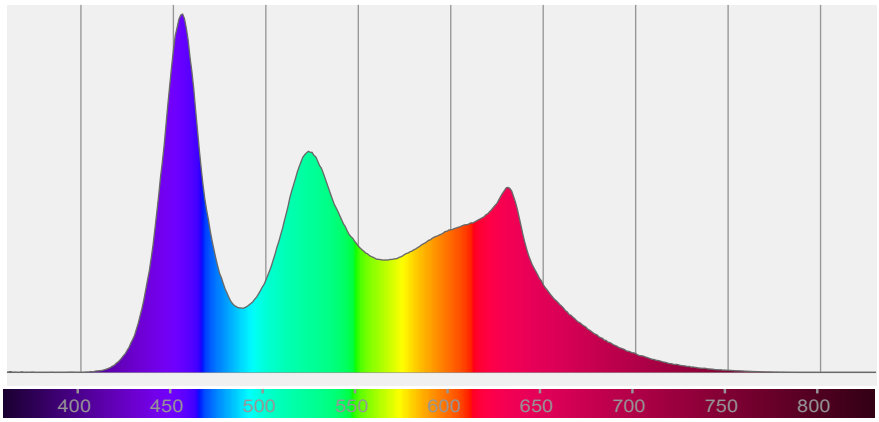
Operator:
Paolo Carvone

Date and time:
30/03/2022 13:01:38



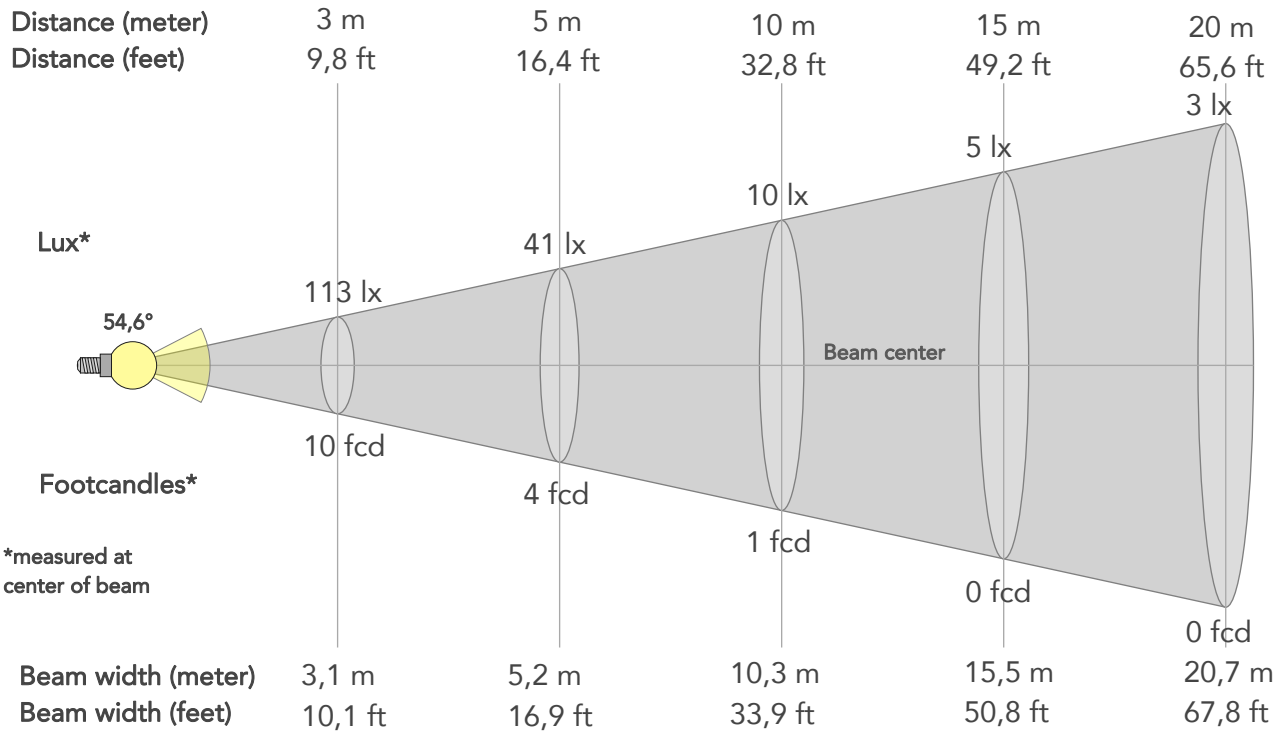
Beam angle 50%: 54,6°
Field angle 10%: 104,2°
Cut off angle 2.5%: 143,8°

Spectra



BEAM DETAILS

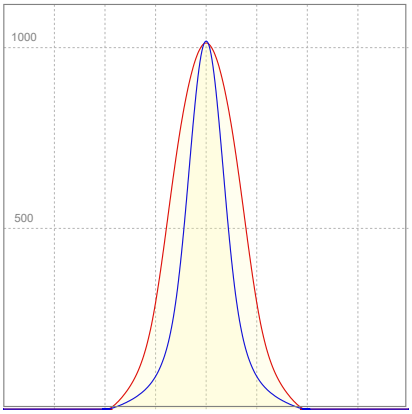
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
54,6°	104,2°	143,8°	92,6%	78,0%



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	1015lx	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.	1m	2,1m	3,1m	4,1m	5,2m	7,7m	10,3m	15,5m	20,7m	25,8m	31m	41,3m	51,6m
Beam wid.	3,4ft	6,8ft	10,1ft	13,5ft	16,9ft	25,4ft	33,9ft	50,8ft	67,8ft	84,7ft	101,6ft	135,5ft	169,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,170A	35,6W	31lm/W

Power FC
0,94

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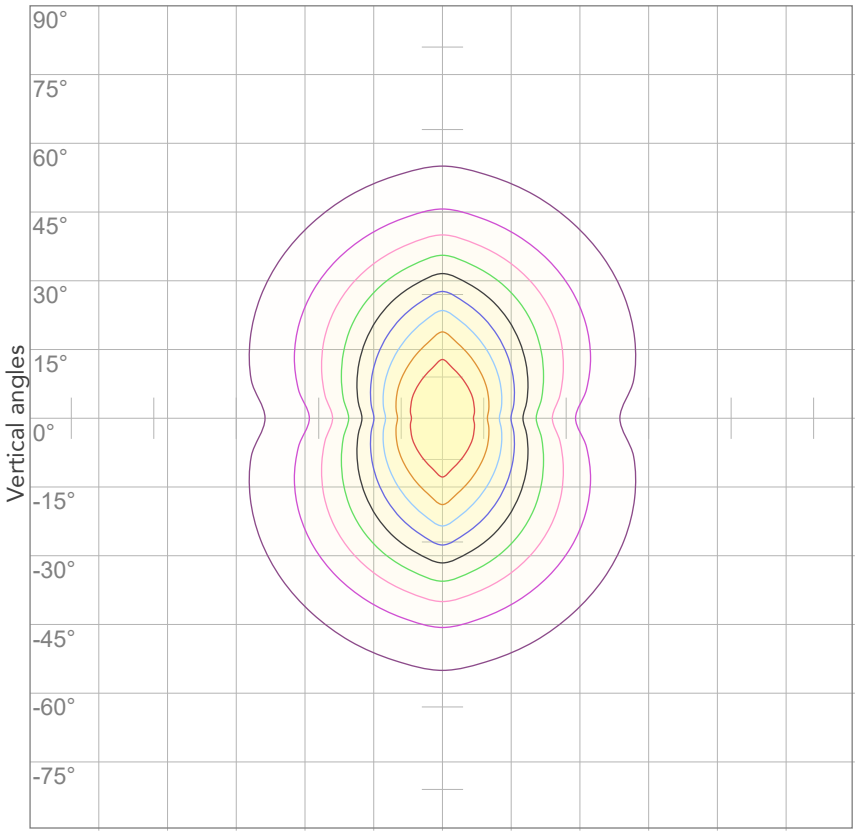
ISO DIAGRAMS

ISO CANDELA DIAGRAM



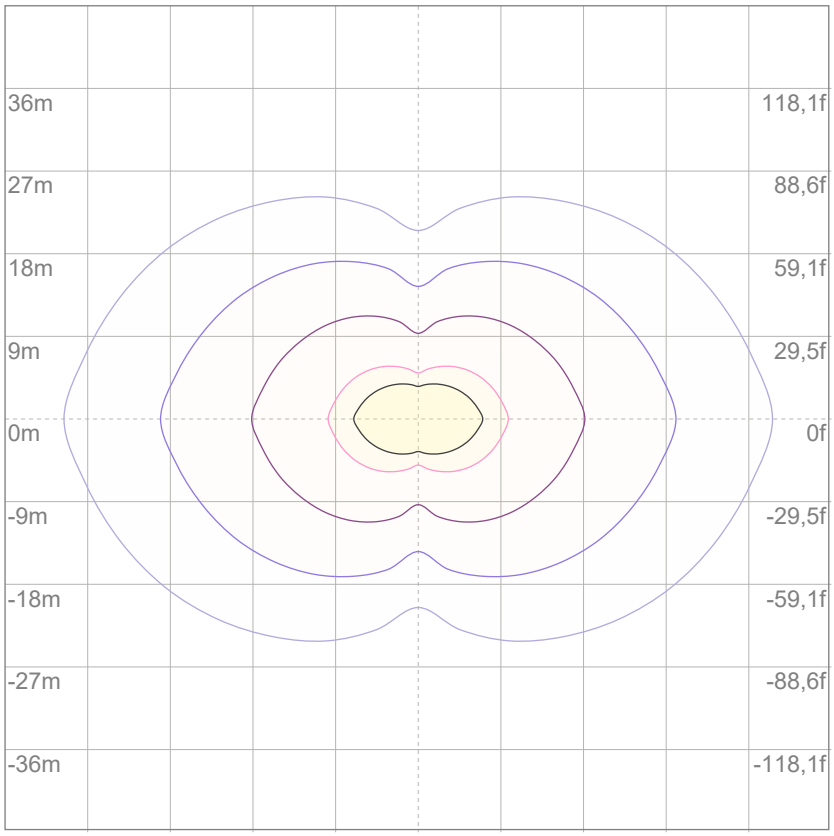
10%	102 cd
20%	203 cd
30%	305 cd
40%	406 cd
50%	508 cd
60%	609 cd
70%	711 cd
80%	812 cd

Conditions:

Number of c-planes: 4

Candela at center: 1015 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,305 lx
5%	0,508 lx
10%	1,02 lx
30%	3,05 lx
50%	5,08 lx

Conditions:

Number of c-planes: 4

Lux at center: 10,2 lx

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

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Total lumen output:

401 lm

Peak candela output:

2127 cd

PRODUCT NAME:

ARCSHINES18FC

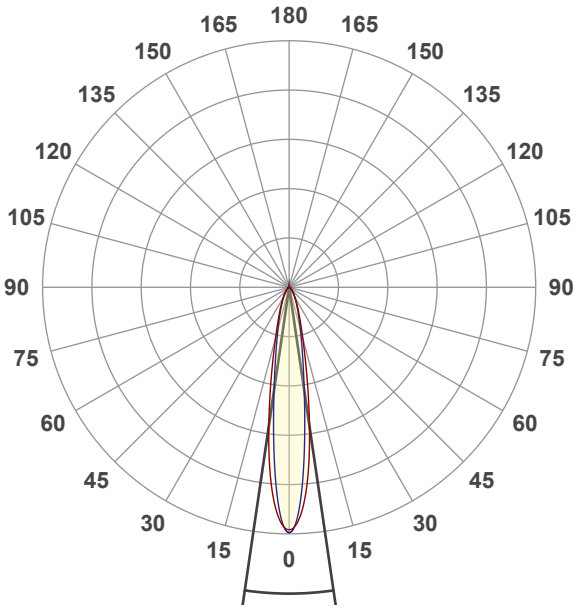
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
Red

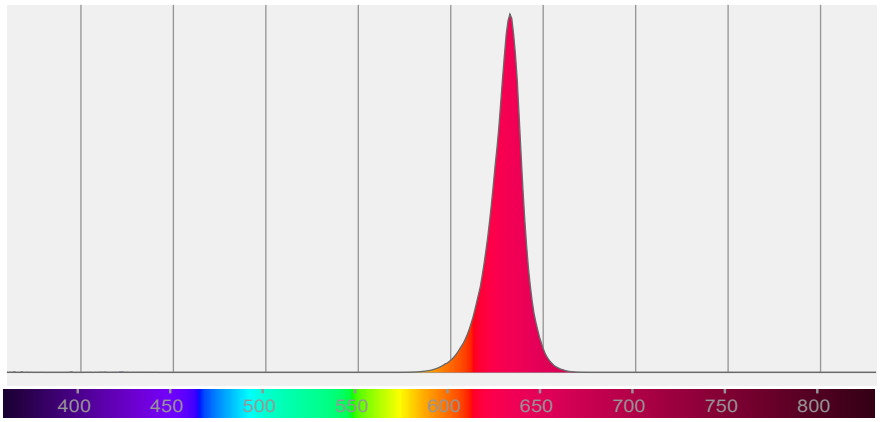
Operator:
Paolo Carvone

Date and time:
29/03/2022 18:20:44



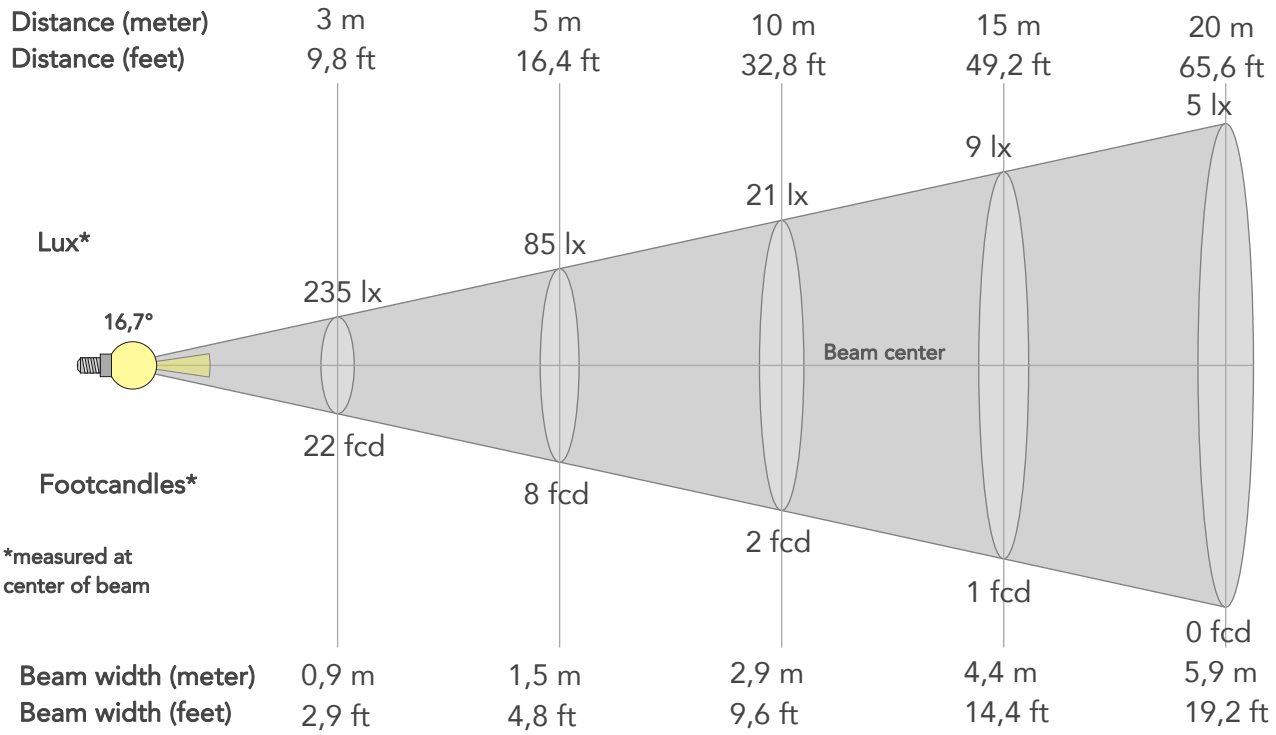
Beam angle 50%: 16,7°
Field angle 10%: 42,4°
Cut off angle 2.5%: 75,1°

Spectra



BEAM DETAILS

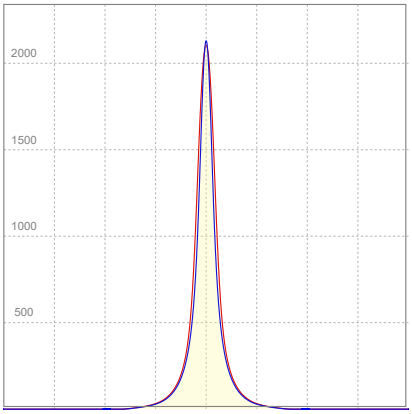
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,7°	42,4°	75,1°	98,5%	92,7%



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	2115lx	529lx	235lx	132lx	85lx	38lx	21lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	196fcd	49fcd	22fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,2m	2,9m	4,4m	5,9m	7,3m	8,8m	11,7m	14,6m
Beam wid.	1ft	1,9ft	2,9ft	3,8ft	4,8ft	7,2ft	9,6ft	14,4ft	19,2ft	24ft	28,8ft	38,4ft	48ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,093A	17,1W	24lm/W

Power FC
0,81

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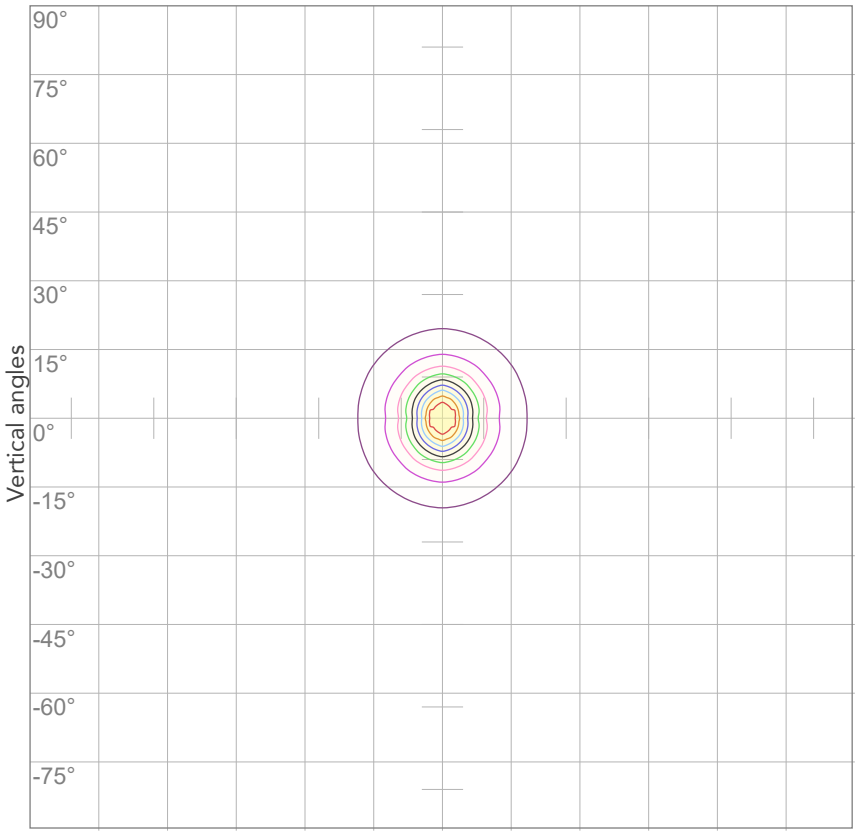
ISO DIAGRAMS

ISO CANDELA DIAGRAM



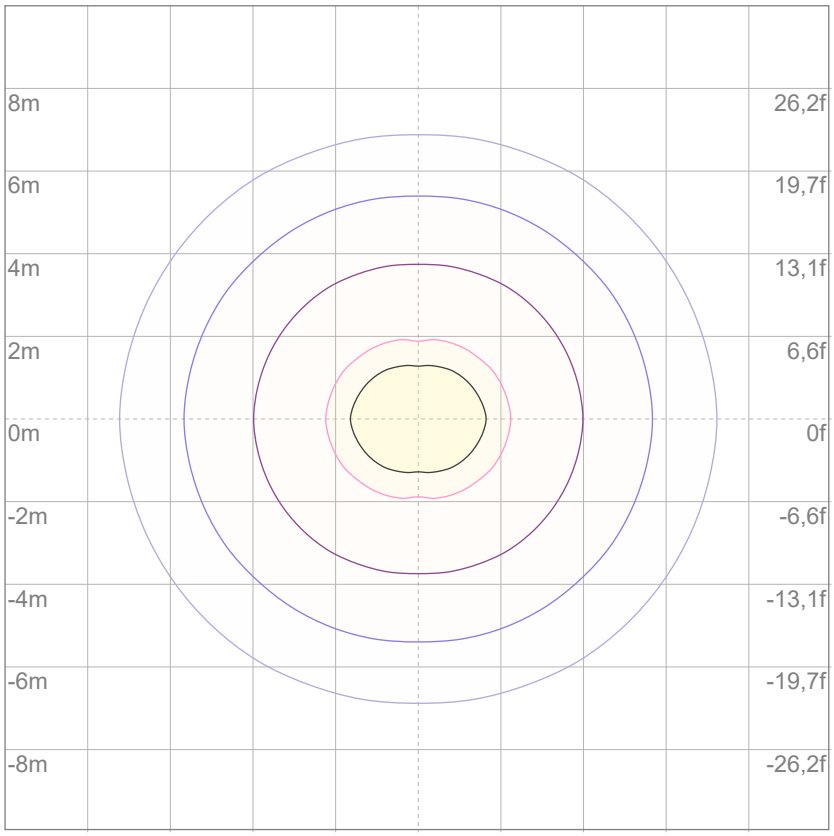
10%	211 cd
20%	423 cd
30%	634 cd
40%	846 cd
50%	1057 cd
60%	1269 cd
70%	1480 cd
80%	1692 cd

Conditions:

Number of c-planes: 4

Candela at center: 2115 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,634 lx
5%	1,06 lx
10%	2,11 lx
30%	6,34 lx
50%	10,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 21,1 lx

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

Total lumen output:

420 lm

Peak candela output:

824 cd

PRODUCT NAME:

ARCSHINES18FC

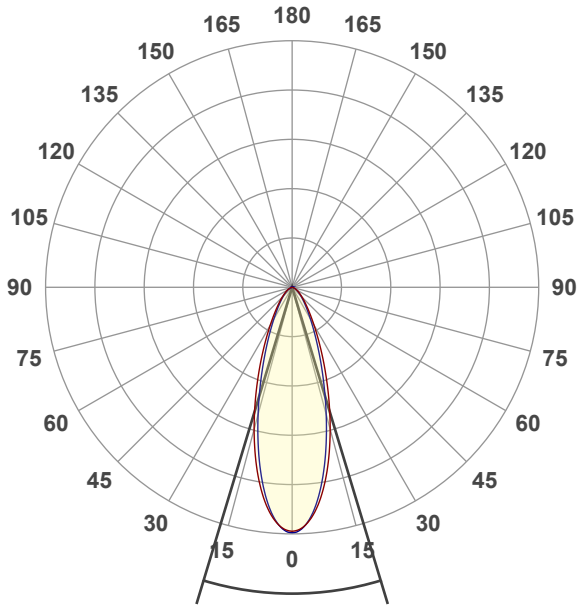
MEASURAMENT CONDITIONS:

Beam angle:
15°+20° Filter

Target:
Red

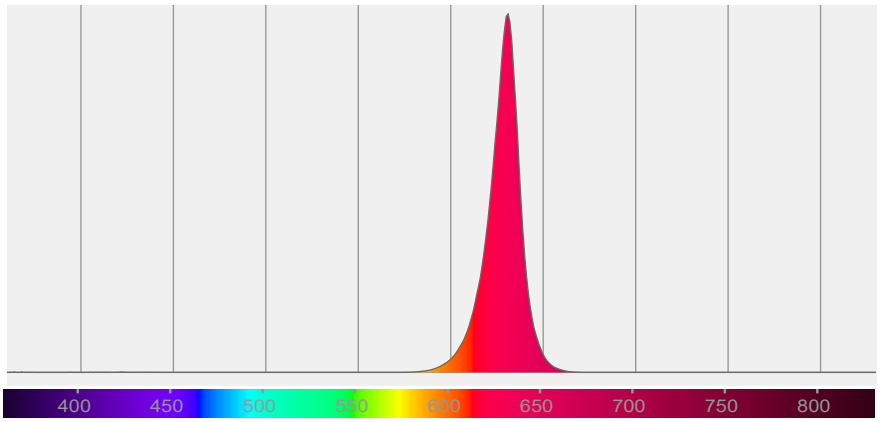
Operator:
Paolo Carvone

Date and time:
30/03/2022 11:52:27



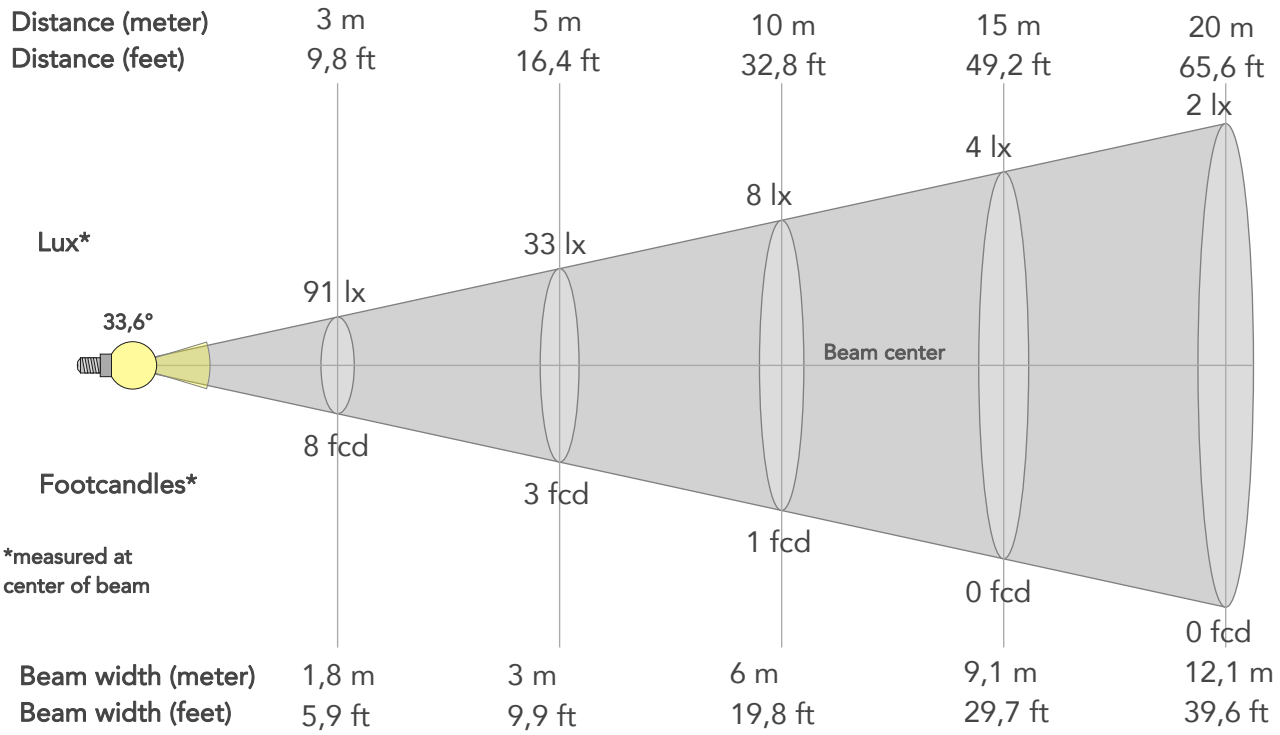
Beam angle 50%: 33,6°
Field angle 10%: 72,5°
Cut off angle 2.5%: 112,8°

Spectra



BEAM DETAILS

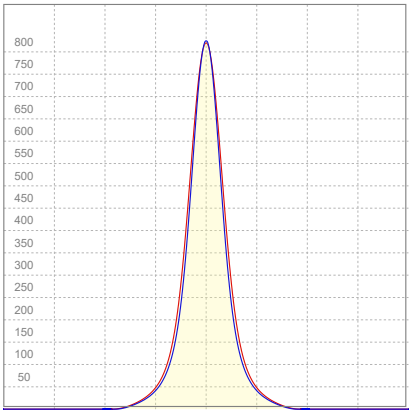
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
33,6°	72,5°	112,8°	97,1%	88,5%



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	822lx	205lx	91lx	51lx	33lx	15lx	8lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	76fcd	19fcd	8fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	3m	4,5m	6m	9,1m	12,1m	15,1m	18,1m	24,2m	30,2m
Beam wid.	2ft	4ft	5,9ft	7,9ft	9,9ft	14,9ft	19,8ft	29,7ft	39,6ft	49,5ft	59,4ft	79,3ft	99,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,173A	16,8W	25lm/W

Power FC
0,43

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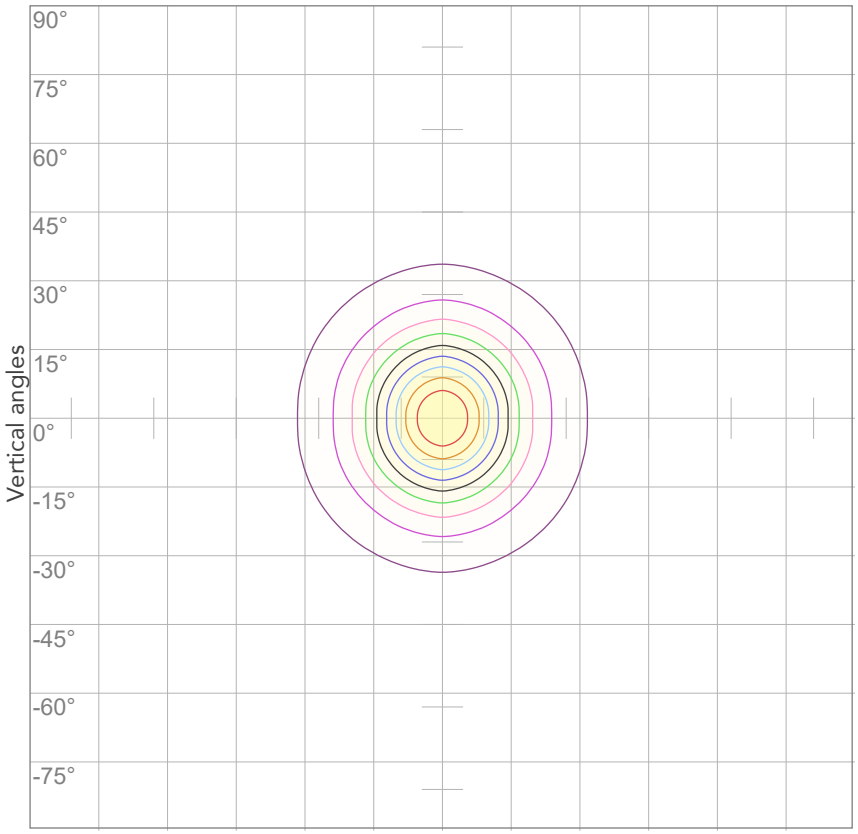
ISO DIAGRAMS

ISO CANDELA DIAGRAM



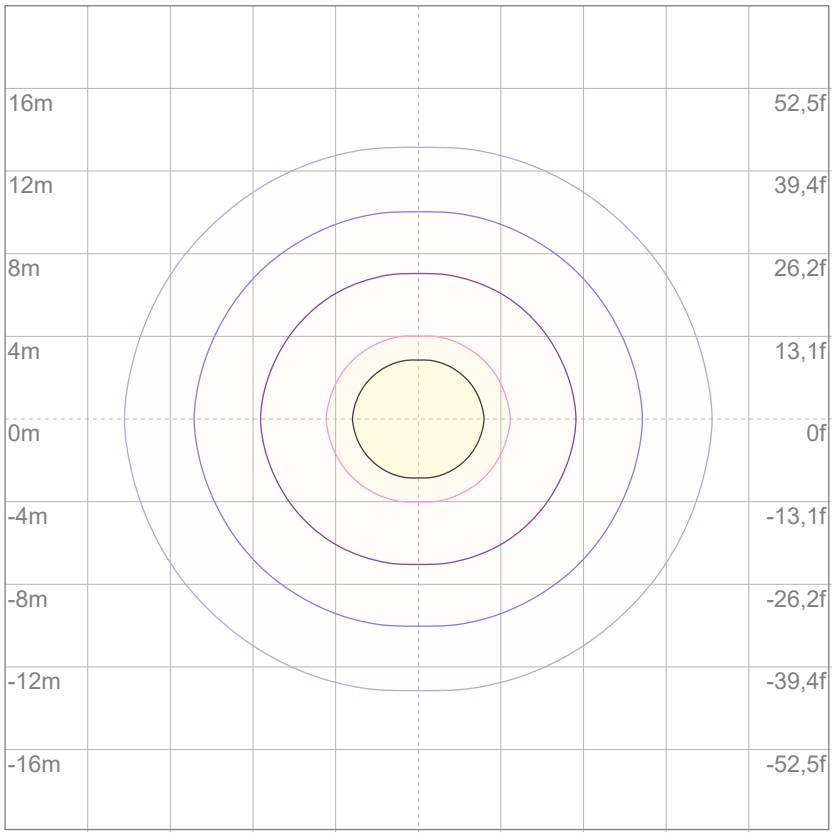
10%	82 cd
20%	164 cd
30%	247 cd
40%	329 cd
50%	411 cd
60%	493 cd
70%	575 cd
80%	657 cd

Conditions:

Number of c-planes: 4

Candela at center: 822 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,247 lx
5%	0,411 lx
10%	0,822 lx
30%	2,47 lx
50%	4,11 lx

Conditions:

Number of c-planes: 4

Lux at center: 8,22 lx

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

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Total lumen output:

366 lm

Peak candela output:

234 cd

PRODUCT NAME:

ARCSHINES18FC

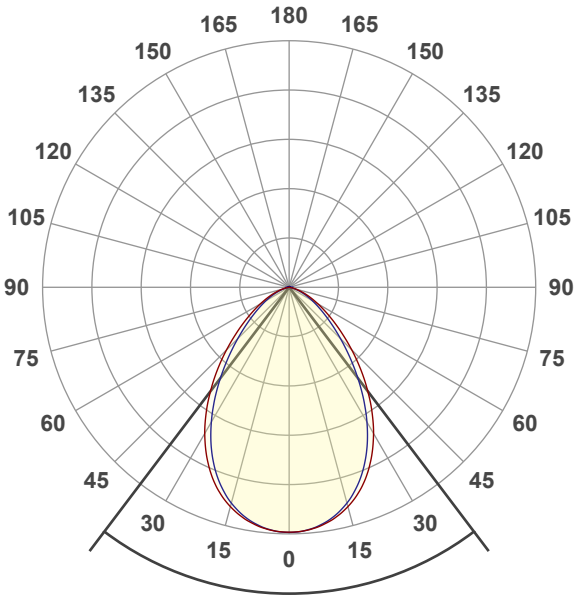
MEASURAMENT CONDITIONS:

Beam angle:
15°+60° Filter

Target:
Red

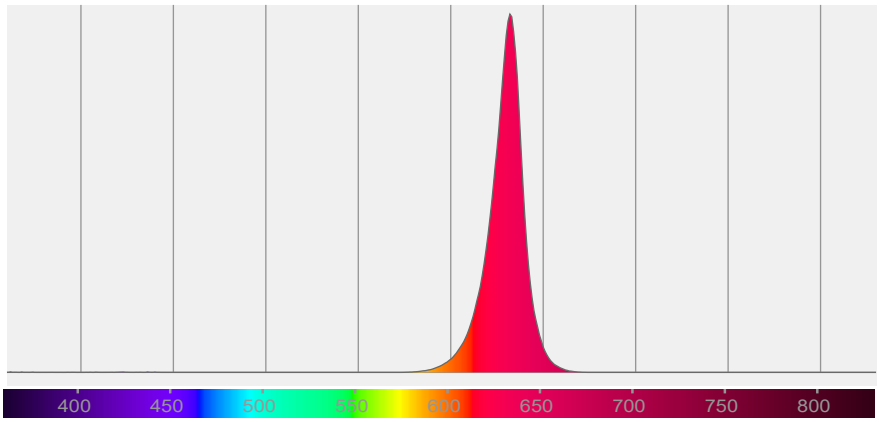
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:34:14



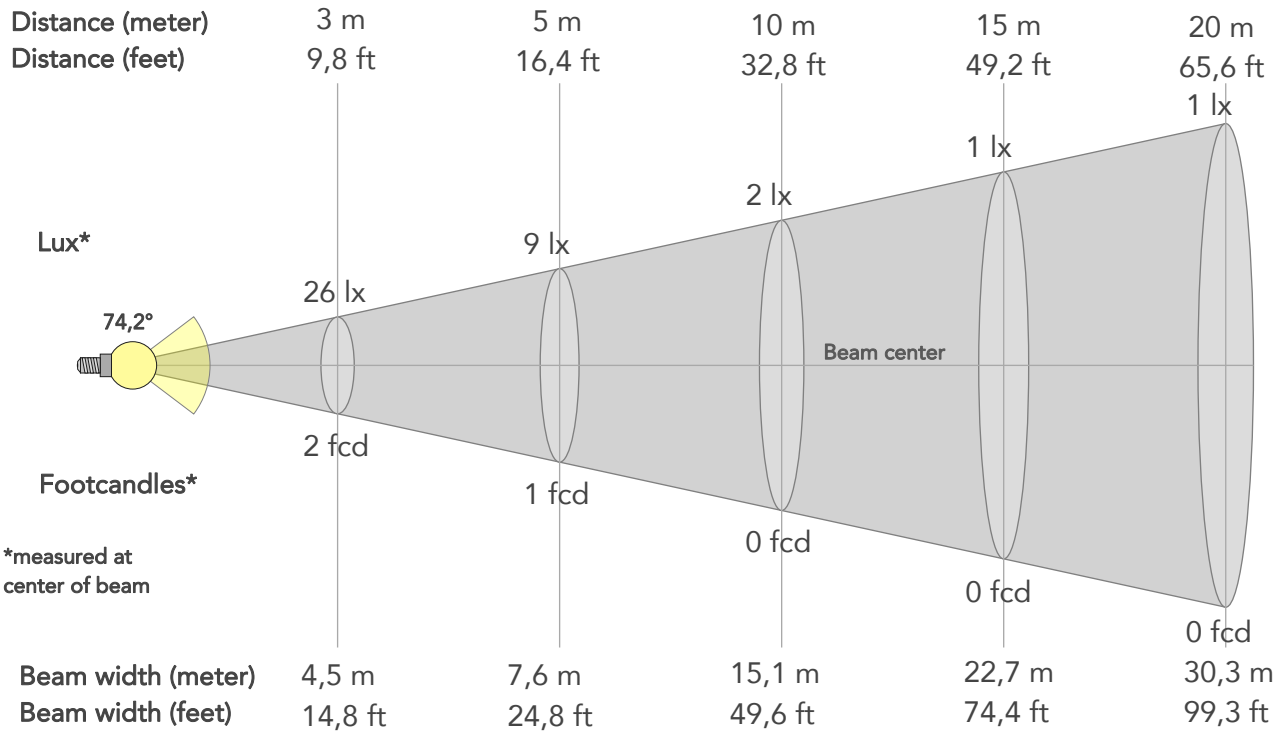
Beam angle 50%: 74,2°
Field angle 10%: 125°
Cut off angle 2.5%: 149°

Spectra



BEAM DETAILS

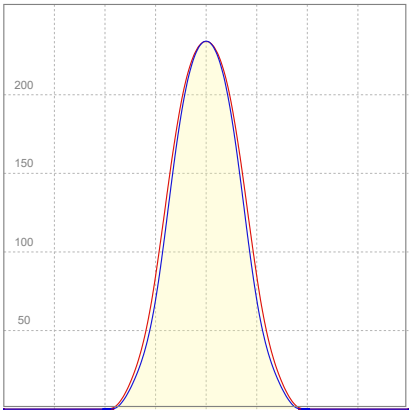
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,2°	125°	149°	93,0%	75,6%



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	234lx	58lx	26lx	15lx	9lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	22fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,5m	6,1m	7,6m	11,3m	15,1m	22,7m	30,3m	37,8m	45,4m	60,5m	75,6m
Beam wid.	5ft	10ft	14,8ft	19,8ft	24,8ft	37,2ft	49,6ft	74,4ft	99,3ft	124,1ft	148,9ft	198,5ft	248,1ft

LINEAR DISTRIBUTION DIAGRAM



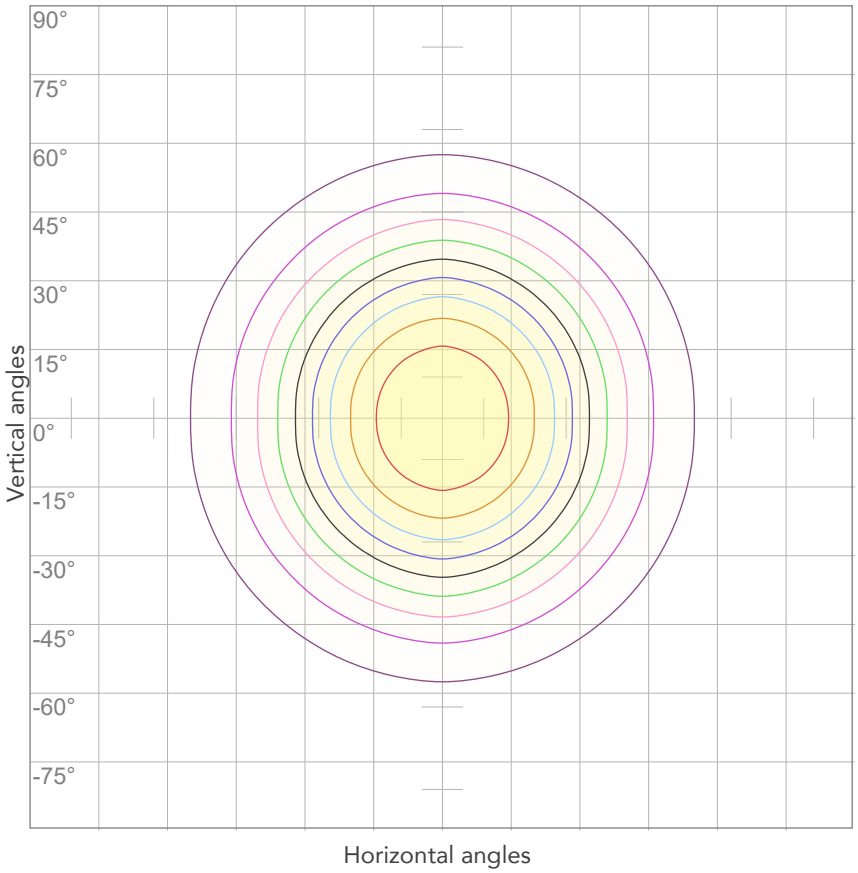
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,094A	17,1W	21lm/W

Power FC
0,81

ISO DIAGRAMS

ISO CANDELA DIAGRAM



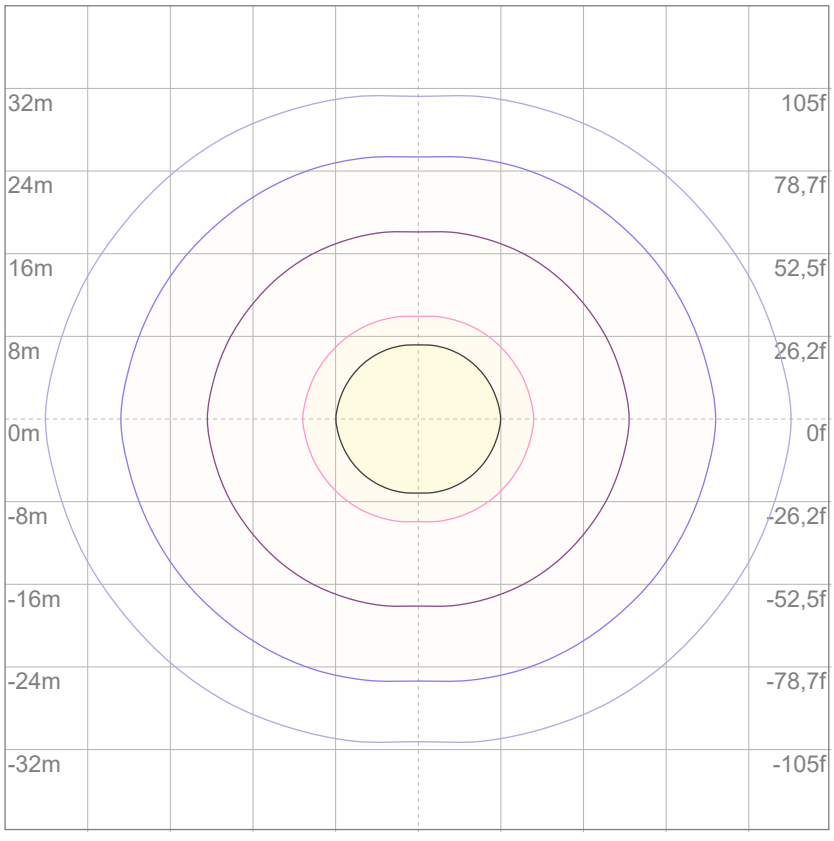
10%	23 cd
20%	47 cd
30%	70 cd
40%	94 cd
50%	117 cd
60%	140 cd
70%	164 cd
80%	187 cd

Conditions:

Number of c-planes: 4

Candela at center: 234 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	70,2m lx
5%	0,117 lx
10%	0,234 lx
30%	0,702 lx
50%	1,17 lx

Conditions:

Number of c-planes: 4

Lux at center: 2,34 lx

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

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Total lumen output:

489 lm

Peak candela output:

480 cd

PRODUCT NAME:

ARCSHINES18FC

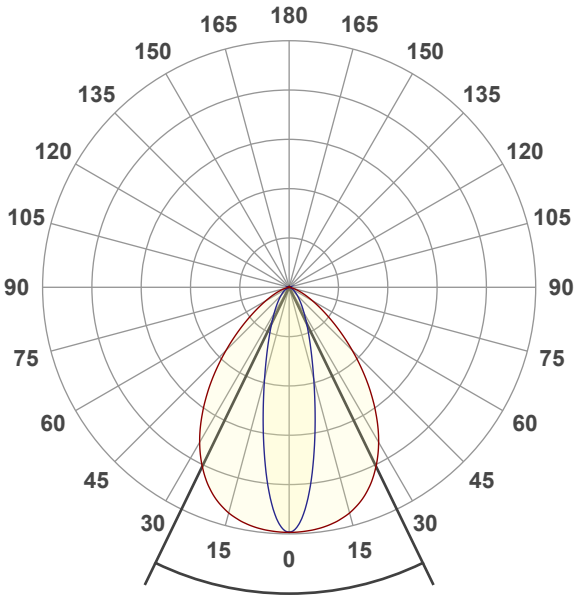
MEASURAMENT CONDITIONS:

Beam angle:
15°+10°x60° Filter

Target:
Red

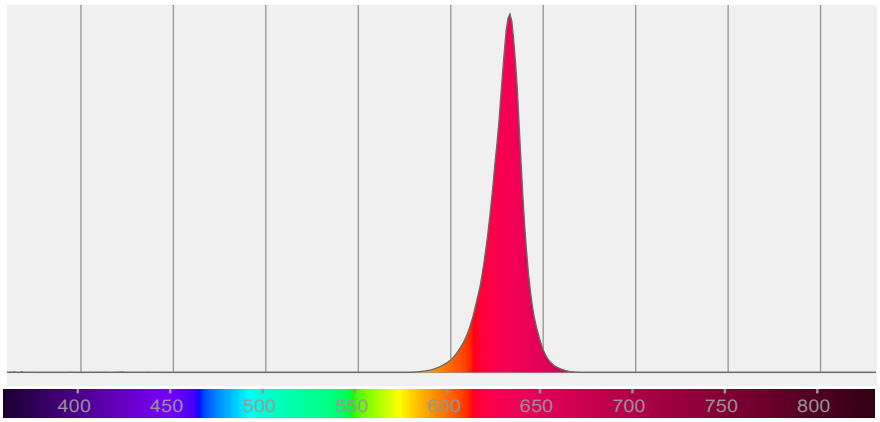
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:15:36



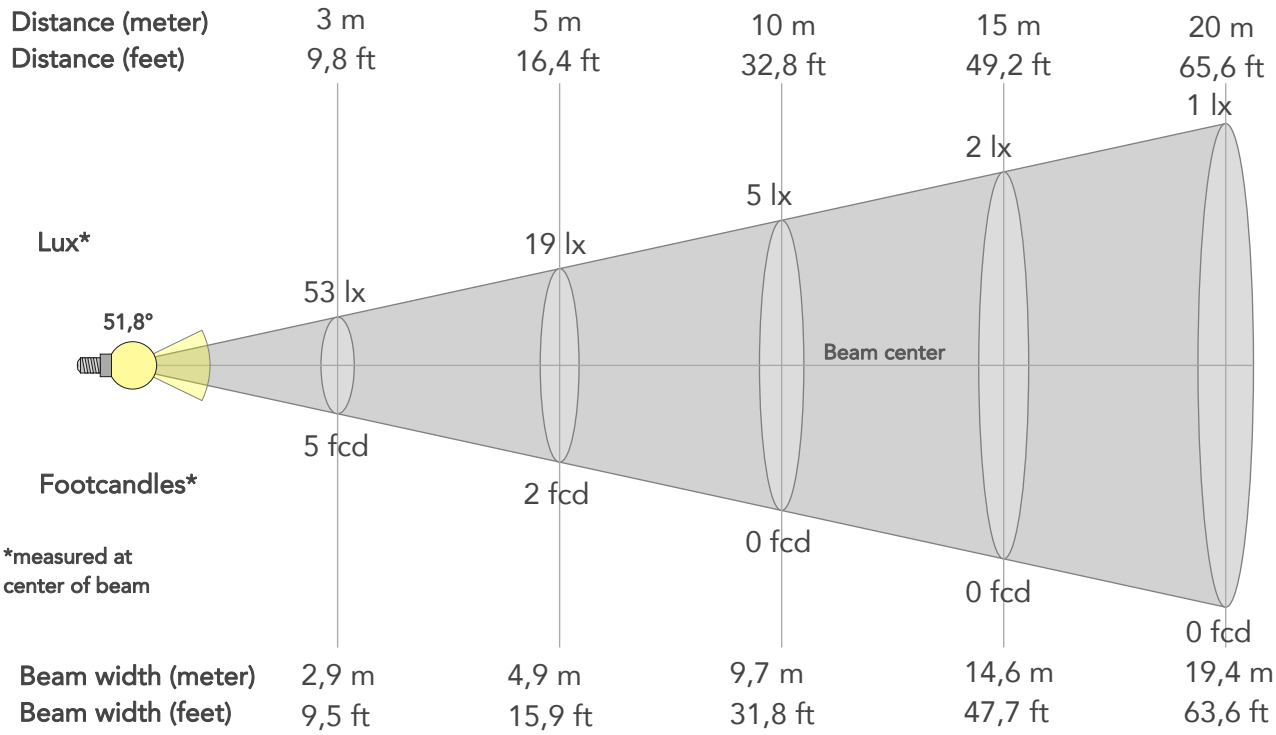
Beam angle 50%: 51,8°
Field angle 10%: 94,1°
Cut off angle 2.5%: 127,4°

Spectra



BEAM DETAILS

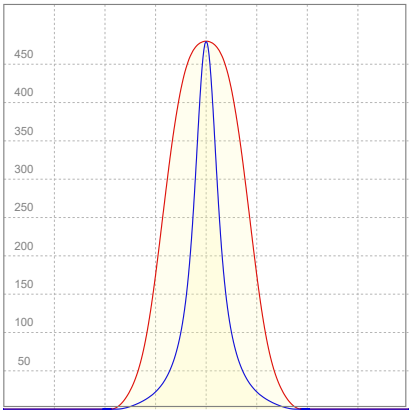
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,8°	94,1°	127,4°	95,1%	79,5%



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	479lx	120lx	53lx	30lx	19lx	9lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	45fcd	11fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	1,9m	2,9m	3,9m	4,9m	7,3m	9,7m	14,6m	19,4m	24,3m	29,1m	38,8m	48,5m
Beam wid.	3,2ft	6,4ft	9,5ft	12,7ft	15,9ft	23,9ft	31,8ft	47,7ft	63,6ft	79,5ft	95,5ft	127,3ft	159,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,095A	17,4W	28lm/W

Power FC
0,82

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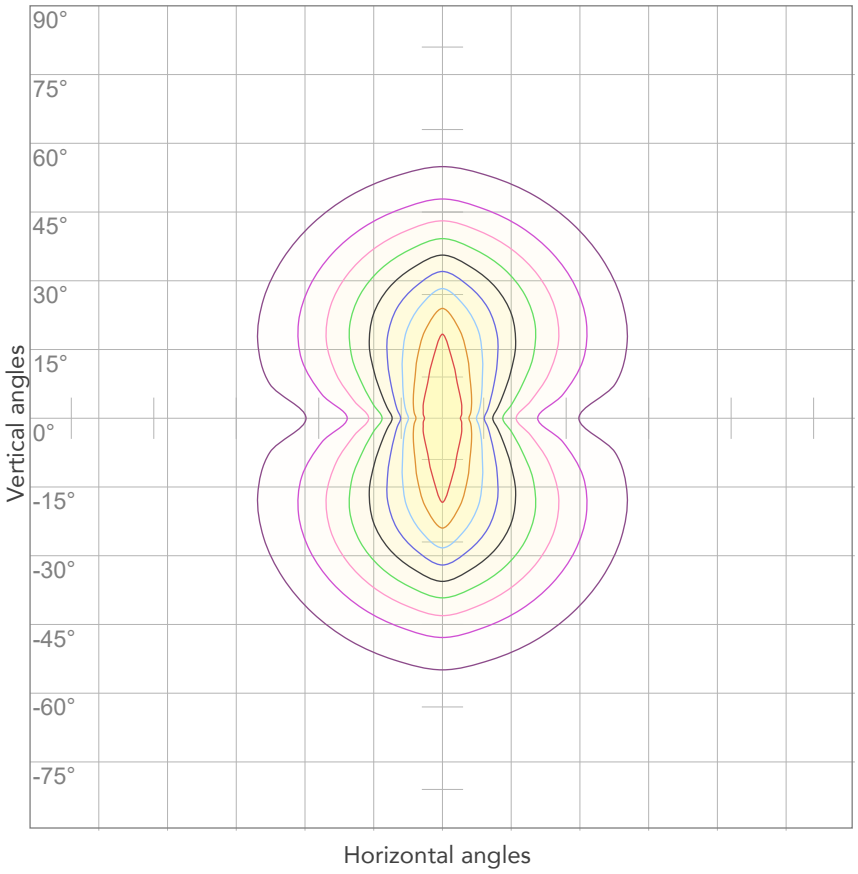
ISO DIAGRAMS

ISO CANDELA DIAGRAM



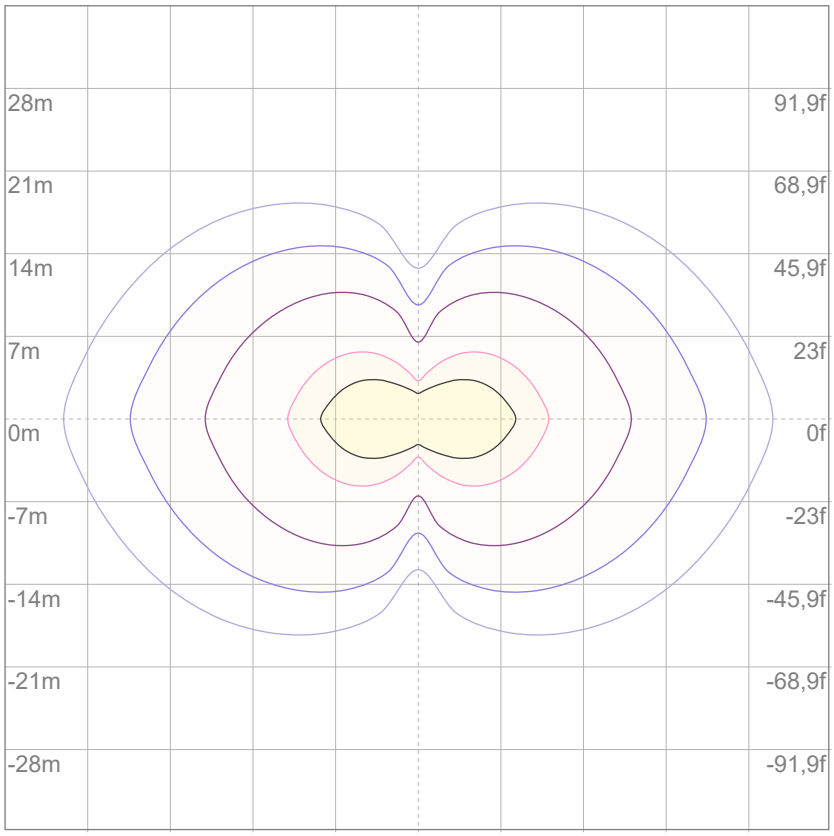
10%	48 cd
20%	96 cd
30%	144 cd
40%	192 cd
50%	240 cd
60%	288 cd
70%	335 cd
80%	383 cd

Conditions:

Number of c-planes: 4

Candela at center: 479 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,144 lx
5%	0,240 lx
10%	0,479 lx
30%	1,44 lx
50%	2,40 lx

Conditions:

Number of c-planes: 4

Lux at center: 4,79 lx

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

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Total lumen output:

394 lm

Peak candela output:

374 cd

PRODUCT NAME:

ARCSHINES18FC

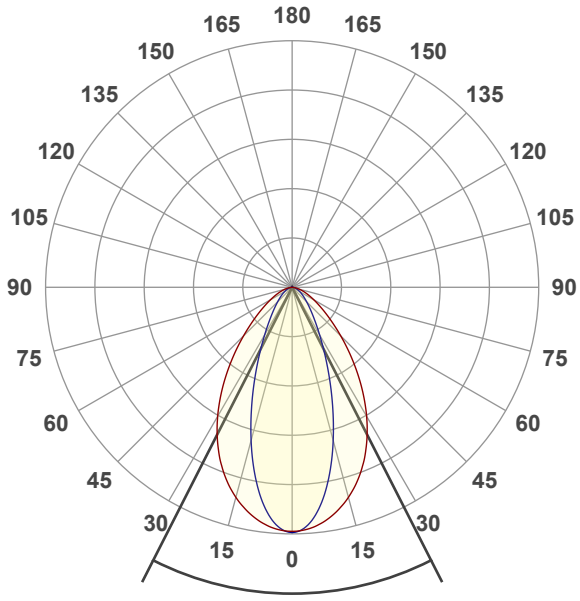
MEASURAMENT CONDITIONS:

Beam angle:
15°+30°x60° Filter

Target:
Red

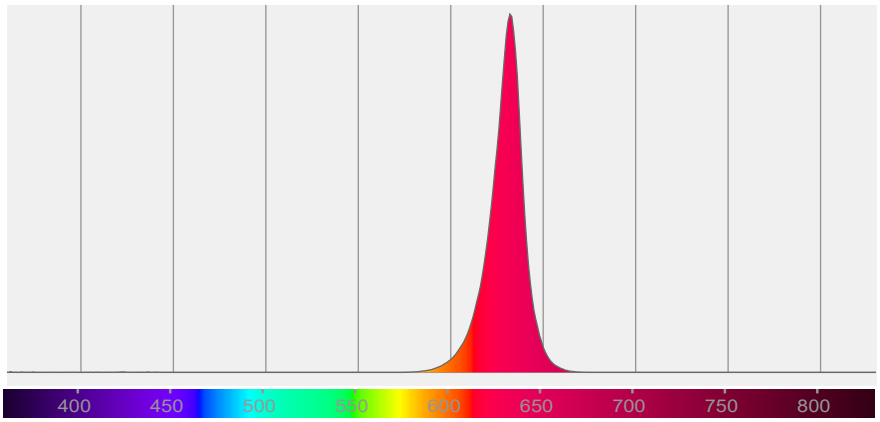
Operator:
Paolo Carvone

Date and time:
30/03/2022 13:04:14



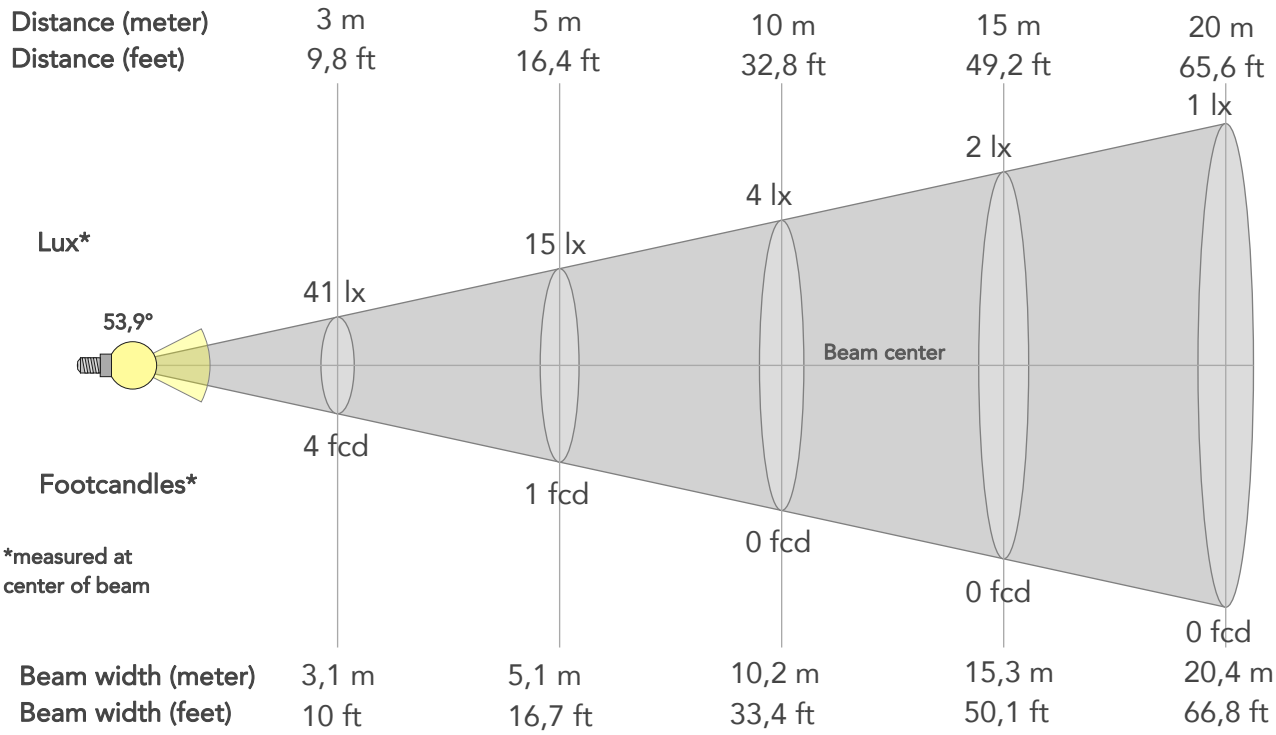
Beam angle 50%: 53,9°
Field angle 10%: 102,4°
Cut off angle 2.5%: 143,1°

Spectra



BEAM DETAILS

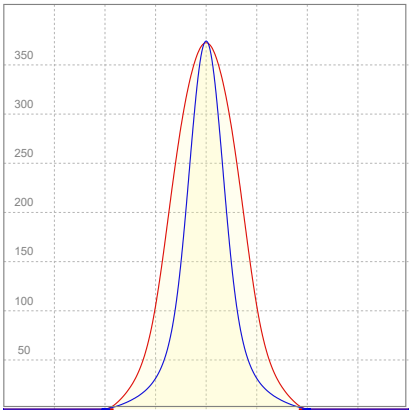
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,9°	102,4°	143,1°	92,6%	78,3%



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	373lx	93lx	41lx	23lx	15lx	7lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	35fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3,1m	4,1m	5,1m	7,6m	10,2m	15,3m	20,4m	25,4m	30,5m	40,7m	50,9m
Beam wid.	3,4ft	6,7ft	10ft	13,3ft	16,7ft	25ft	33,4ft	50,1ft	66,8ft	83,5ft	100,1ft	133,5ft	166,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,094A	17,1W	23lm/W

Power FC
0,81

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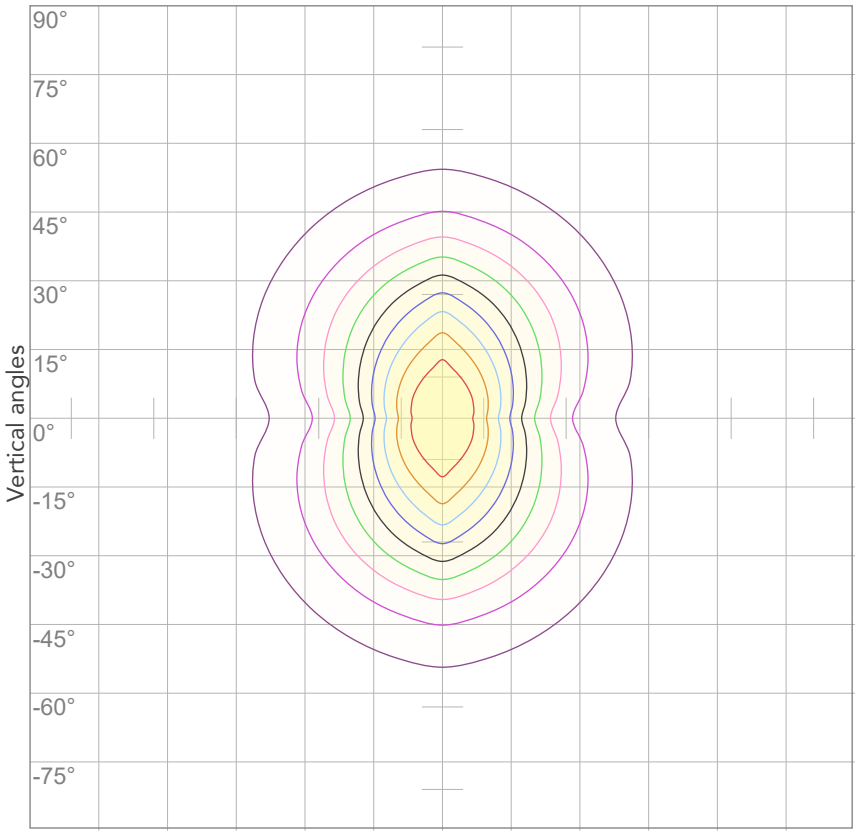
ISO DIAGRAMS

ISO CANDELA DIAGRAM



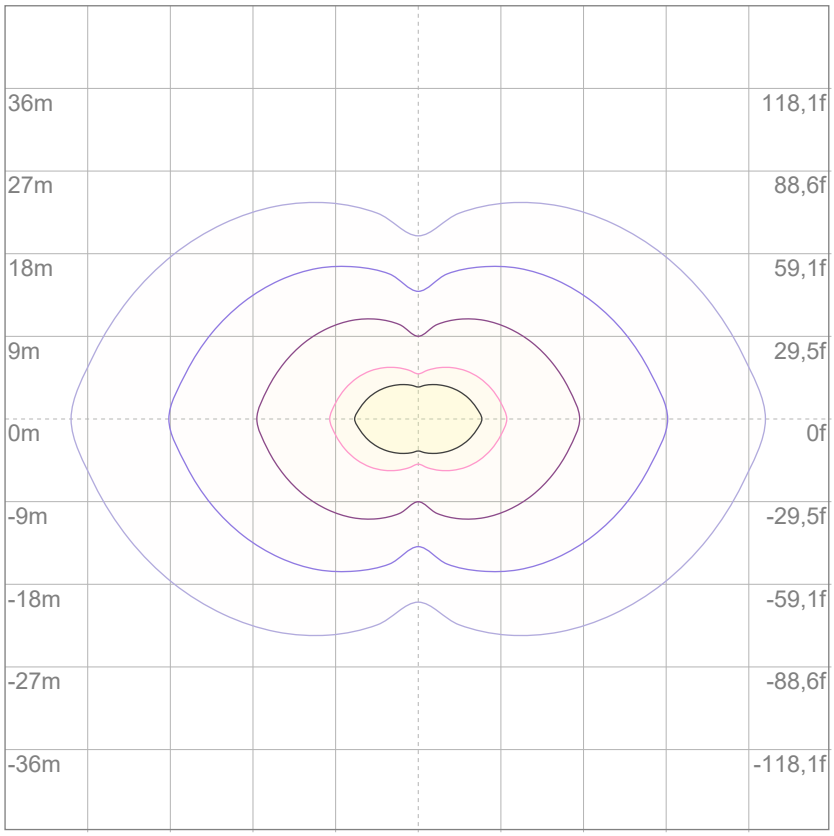
10%	37 cd
20%	75 cd
30%	112 cd
40%	149 cd
50%	187 cd
60%	224 cd
70%	261 cd
80%	299 cd

Conditions:

Number of c-planes: 4

Candela at center: 373 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,112 lx
5%	0,187 lx
10%	0,373 lx
30%	1,12 lx
50%	1,87 lx

Conditions:

Number of c-planes: 4

Lux at center: 3,73 lx

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

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Total lumen output:

778 lm

Peak candela output:

3739 cd

PRODUCT NAME:

ARCSHINES18FC

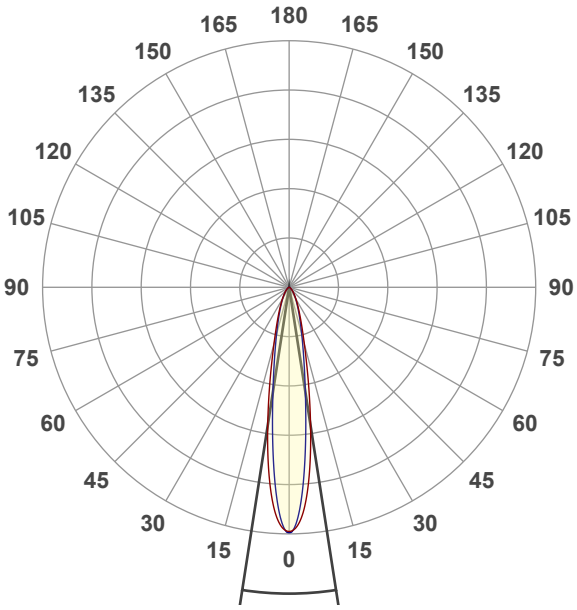
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
Green

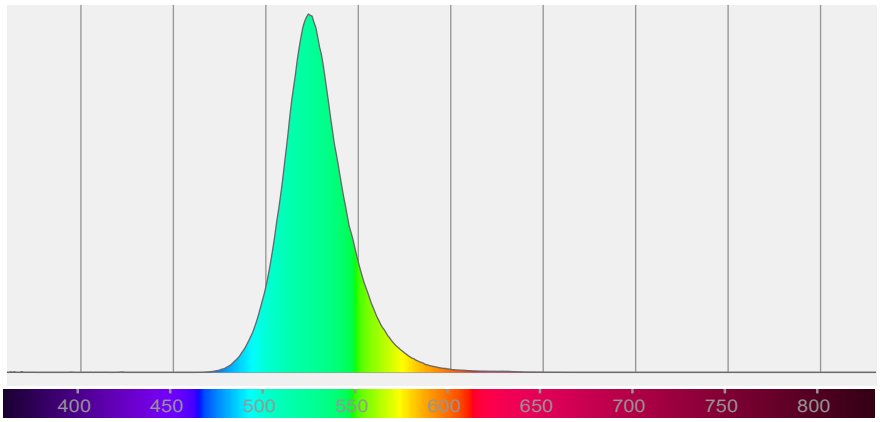
Operator:
Paolo Carvone

Date and time:
29/03/2022 18:24:54



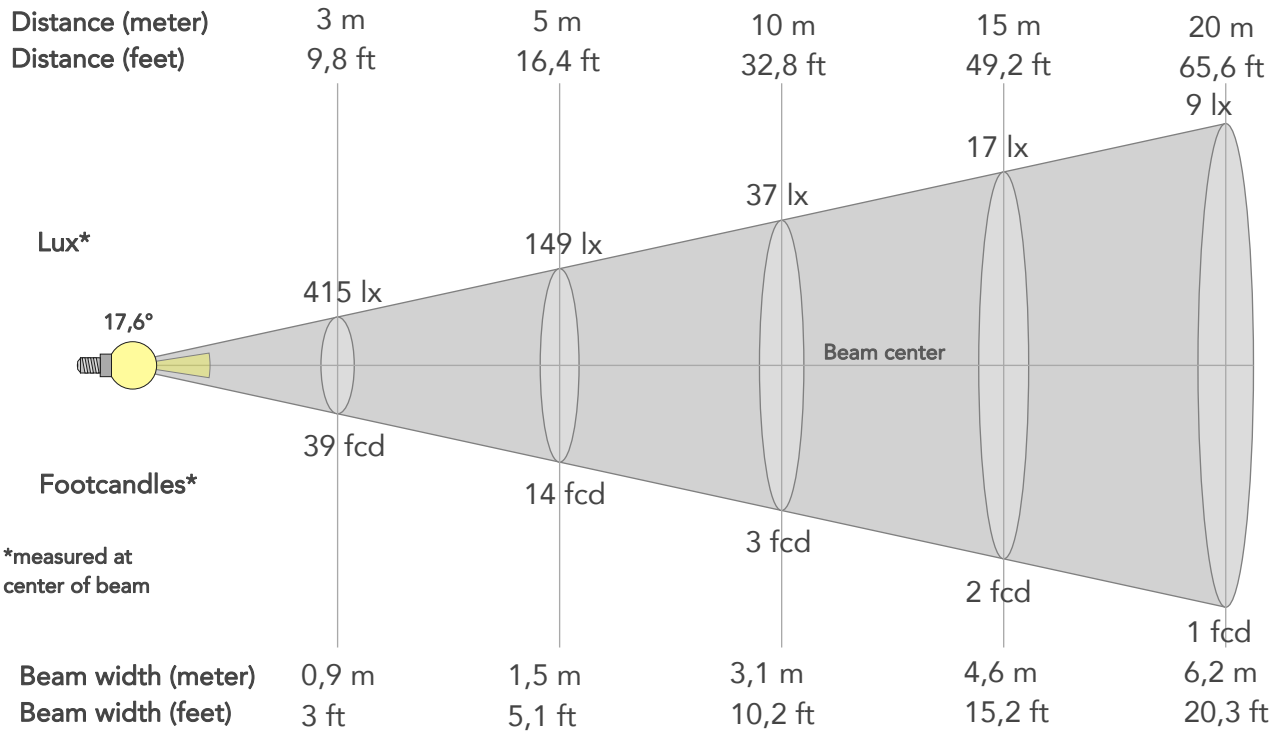
Beam angle 50%: 17,6°
Field angle 10%: 45,1°
Cut off angle 2.5%: 78,8°

Spectra



BEAM DETAILS

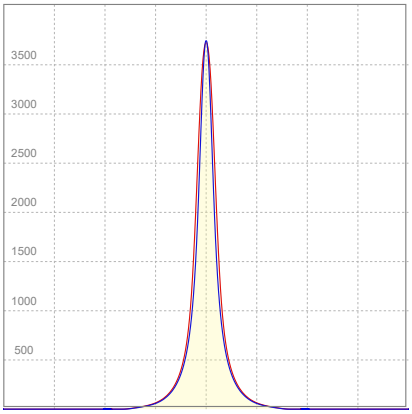
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,6°	45,1°	78,8°	98,7%	92,8%



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	3732lx	933lx	415lx	233lx	149lx	66lx	37lx	17lx	9lx	6lx	4lx	2lx	1lx
Footcand.	347fcd	87fcd	39fcd	22fcd	14fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3,1m	4,6m	6,2m	7,7m	9,3m	12,4m	15,5m
Beam wid.	1ft	2ft	3ft	4,1ft	5,1ft	7,6ft	10,2ft	15,2ft	20,3ft	25,4ft	30,5ft	40,6ft	50,8ft

LINEAR DISTRIBUTION DIAGRAM



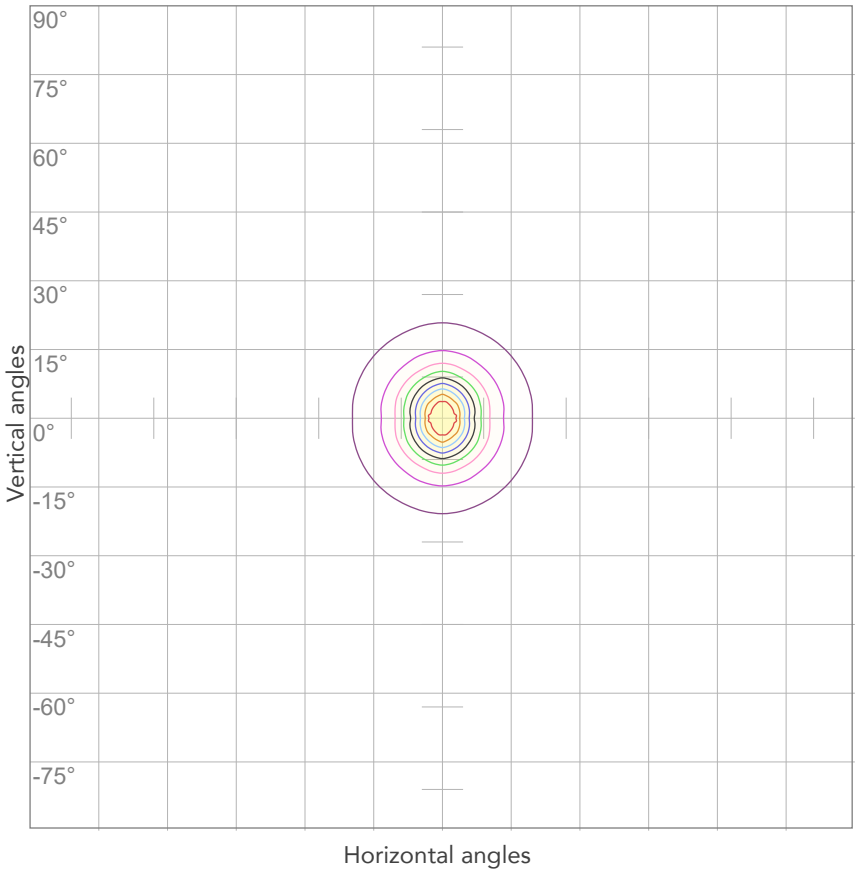
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,197A	20,7W	38lm/W

Power FC
0,47

ISO DIAGRAMS

ISO CANDELA DIAGRAM



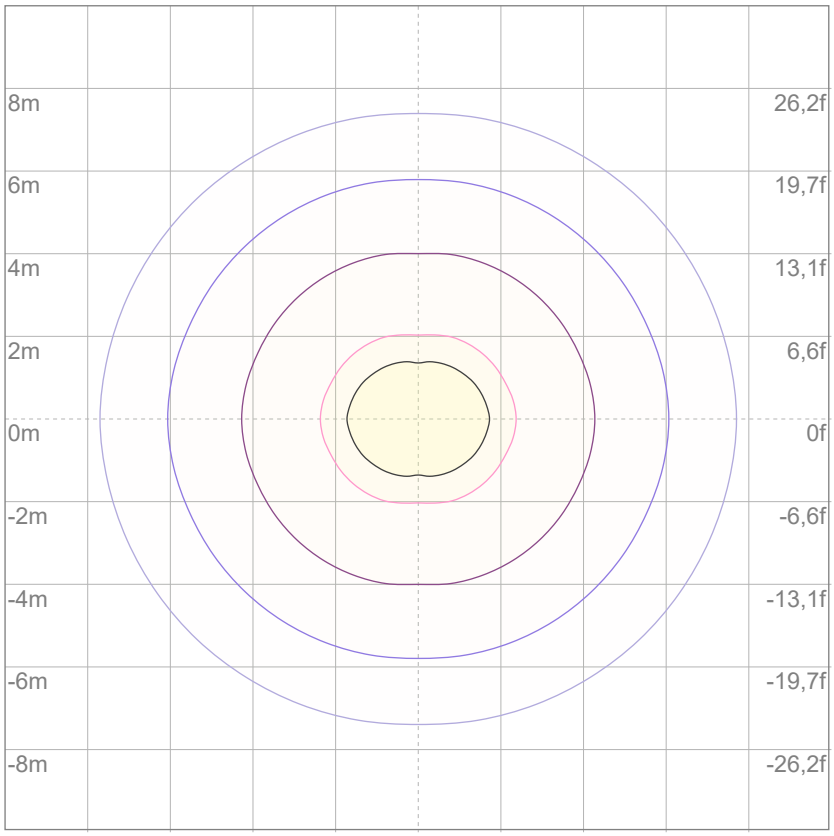
10%	373 cd
20%	746 cd
30%	1119 cd
40%	1493 cd
50%	1866 cd
60%	2239 cd
70%	2612 cd
80%	2985 cd

Conditions:

Number of c-planes: 4

Candela at center: 3732 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,12 lx
5%	1,87 lx
10%	3,73 lx
30%	11,2 lx
50%	18,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 37,3 lx

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

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Total lumen output:

747 lm

Peak candela output:

1398 cd

PRODUCT NAME:

ARCSHINES18FC

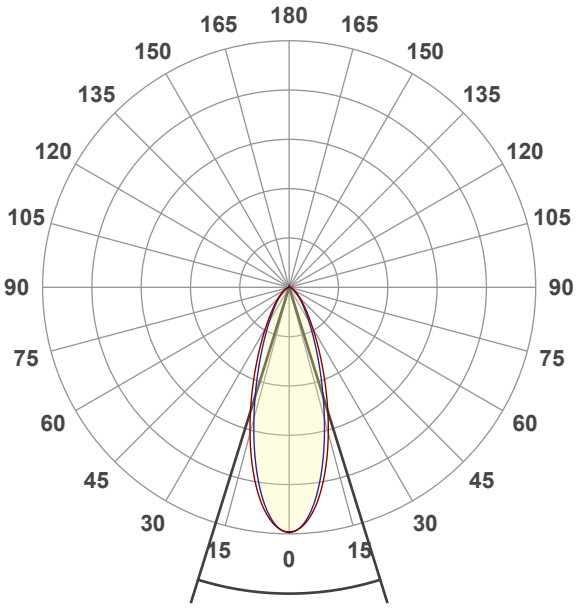
MEASURAMENT CONDITIONS:

Beam angle:
15°+20° Filter

Target:
Green

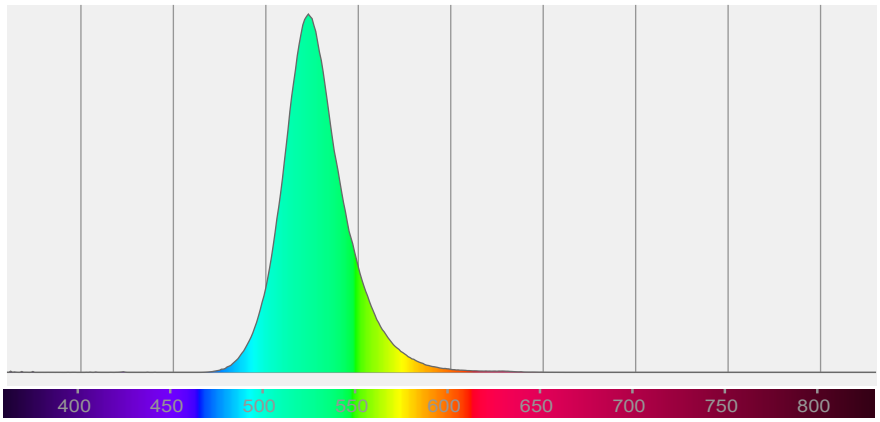
Operator:
Paolo Carvone

Date and time:
30/03/2022 11:59:20



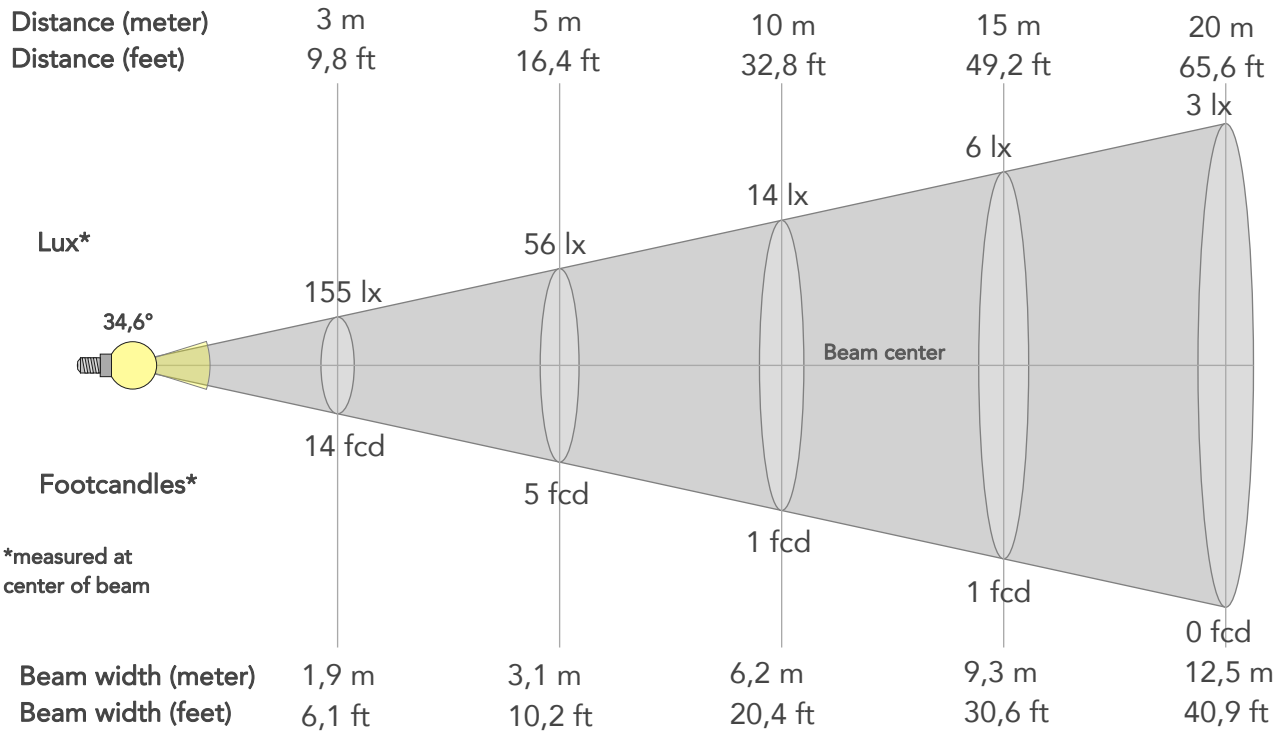
Beam angle 50%: 34,6°
Field angle 10%: 74,9°
Cut off angle 2.5%: 114,5°

Spectra



BEAM DETAILS

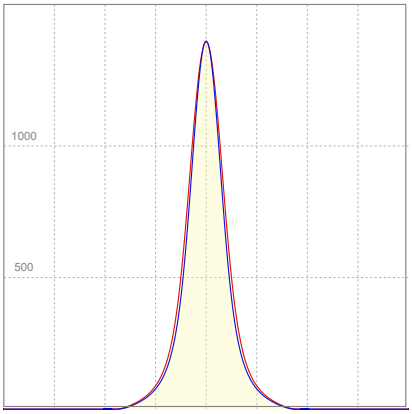
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34,6°	74,9°	114,5°	97,3%	88,5%



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	1396lx	349lx	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.	0,6m	1,2m	1,9m	2,5m	3,1m	4,7m	6,2m	9,3m	12,5m	15,6m	18,7m	24,9m	31,1m
Beam wid.	2,1ft	4,1ft	6,1ft	8,2ft	10,2ft	15,3ft	20,4ft	30,6ft	40,9ft	51,1ft	61,3ft	81,7ft	102,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,114A	21,8W	34lm/W

Power FC
0,86

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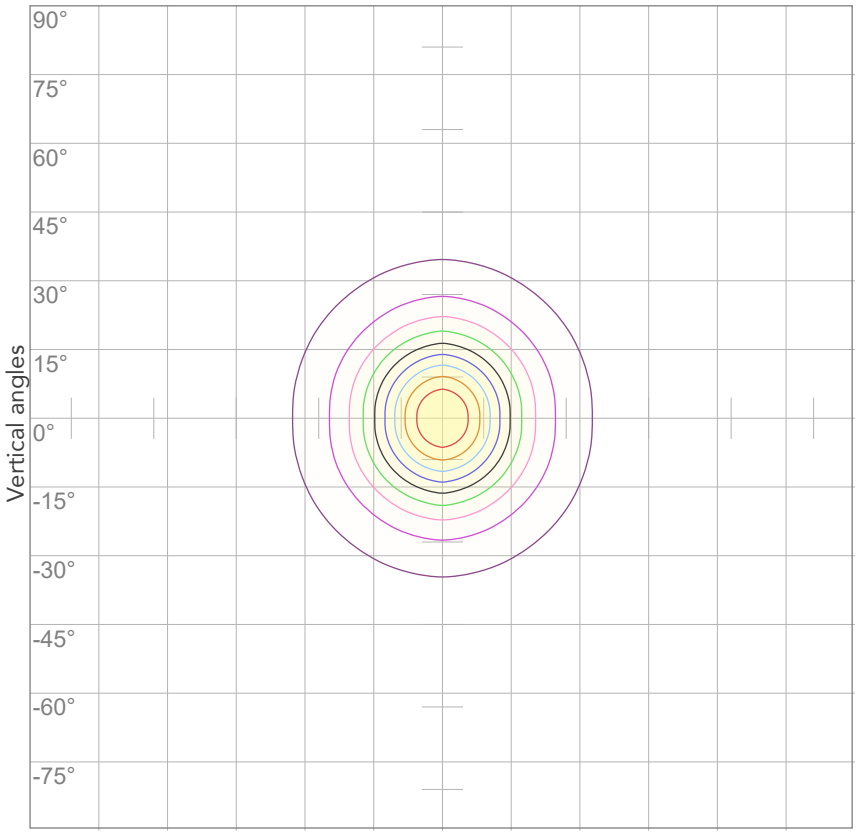
ISO DIAGRAMS

ISO CANDELA DIAGRAM



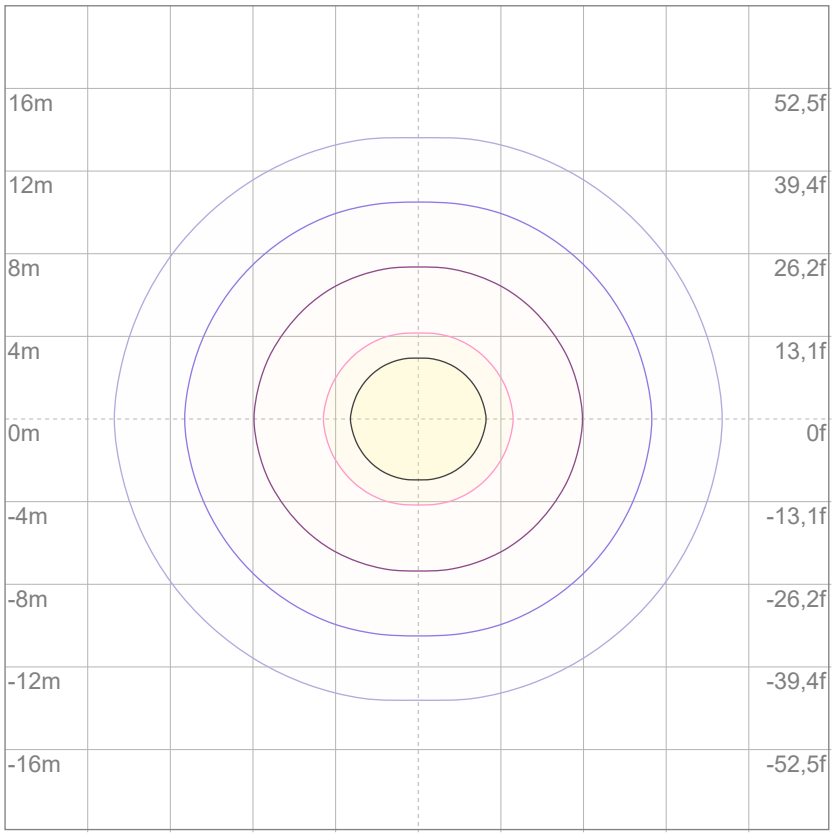
10%	140 cd
20%	279 cd
30%	419 cd
40%	559 cd
50%	698 cd
60%	838 cd
70%	978 cd
80%	1117 cd

Conditions:

Number of c-planes: 4

Candela at center: 1396 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,419 lx
5%	0,698 lx
10%	1,40 lx
30%	4,19 lx
50%	6,98 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.

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Total lumen output:

723 lm

Peak candela output:

439 cd

PRODUCT NAME:

ARCSHINES18FC

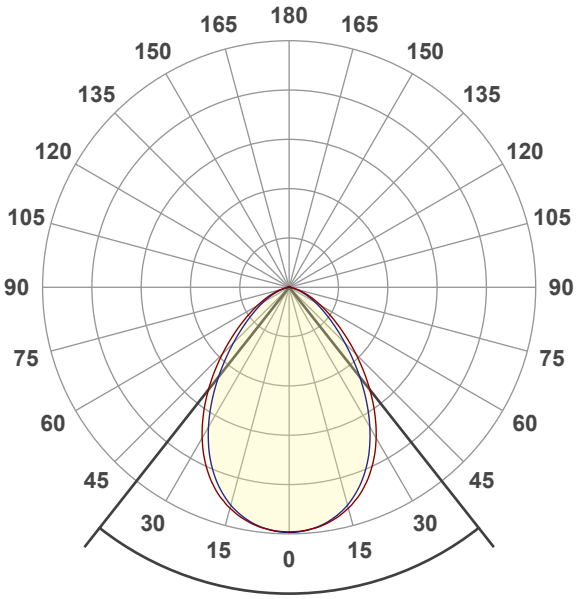
MEASURAMENT CONDITIONS:

Beam angle:
15°+60° Filter

Target:
Green

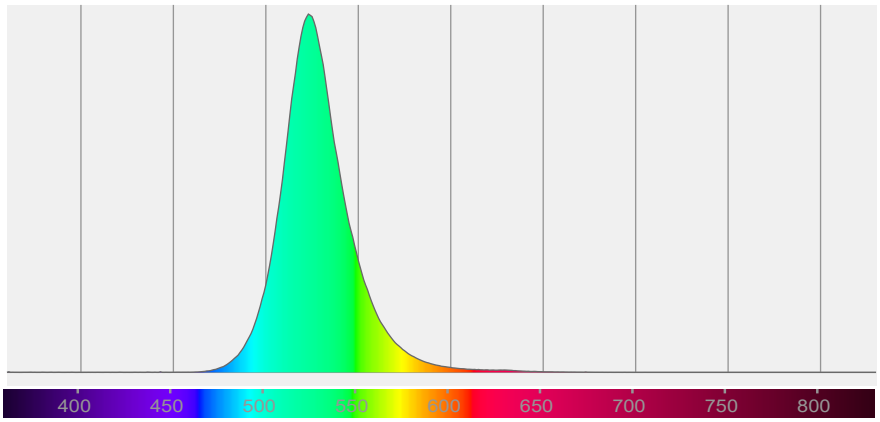
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:37:34



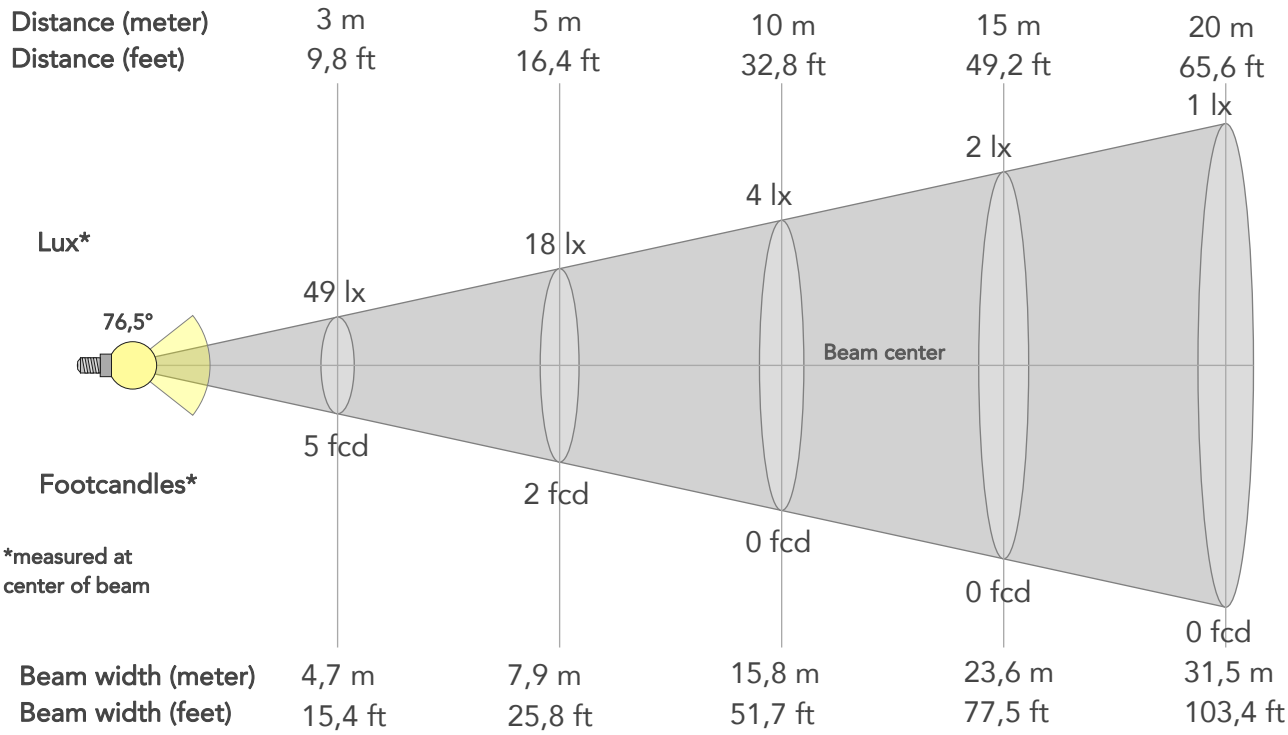
Beam angle 50%: 76,5°
Field angle 10%: 128,1°
Cut off angle 2.5%: 151,2°

Spectra



BEAM DETAILS

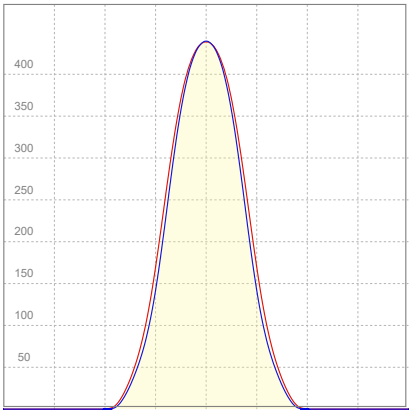
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76,5°	128,1°	151,2°	92,3%	74,1%



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	439lx	110lx	49lx	27lx	18lx	8lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	41fcd	10fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,6m	3,2m	4,7m	6,3m	7,9m	11,8m	15,8m	23,6m	31,5m	39,4m	47,3m	63m	78,8m
Beam wid.	5,2ft	10,4ft	15,4ft	20,6ft	25,8ft	38,8ft	51,7ft	77,5ft	103,4ft	129,2ft	155,1ft	206,7ft	258,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,216A	20,8W	35lm/W

Power FC
0,43

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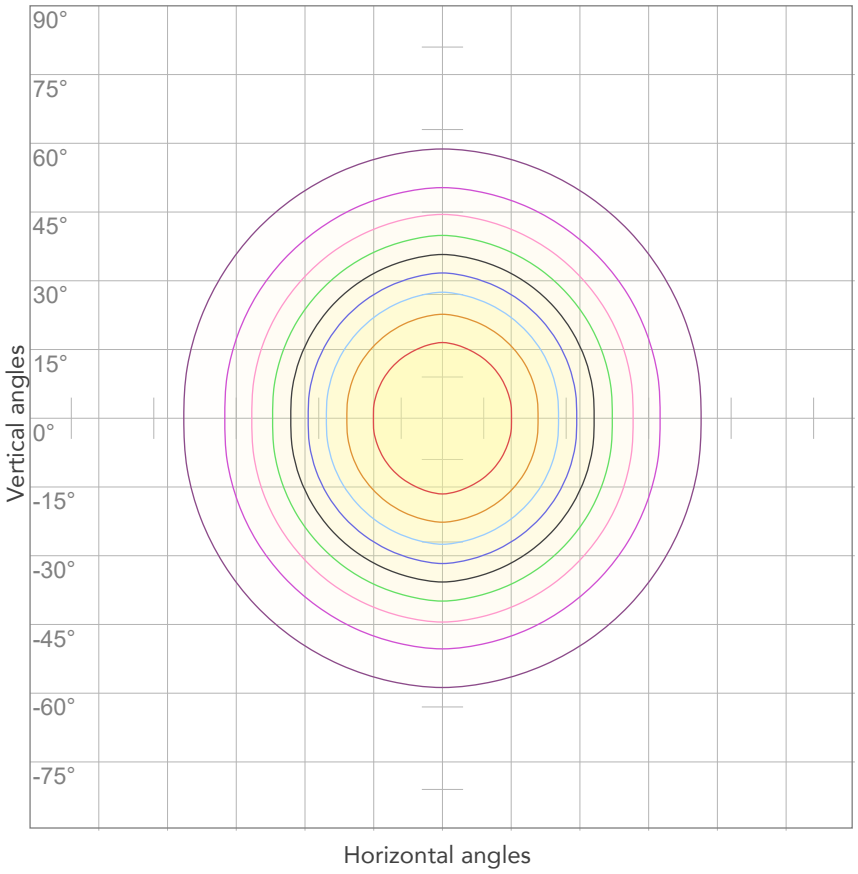
ISO DIAGRAMS

ISO CANDELA DIAGRAM



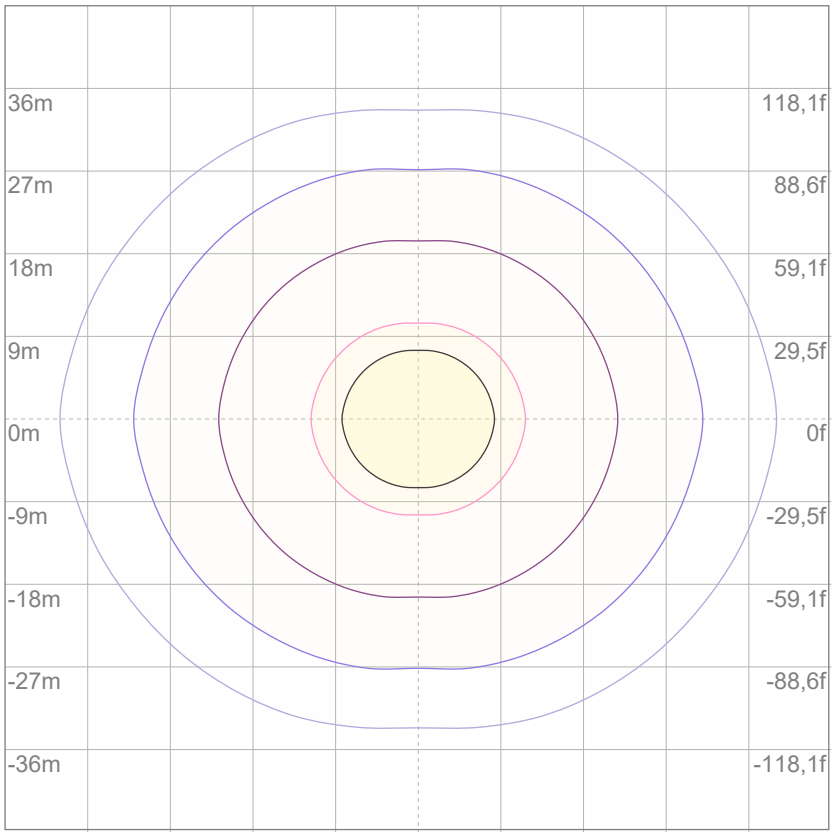
10%	44 cd
20%	88 cd
30%	132 cd
40%	176 cd
50%	220 cd
60%	263 cd
70%	307 cd
80%	351 cd

Conditions:

Number of c-planes: 4

Candela at center: 439 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,132 lx
5%	0,220 lx
10%	0,439 lx
30%	1,32 lx
50%	2,20 lx

Conditions:

Number of c-planes: 4

Lux at center: 4,39 lx

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

Total lumen output:

940 lm

Peak candela output:

868 cd

PRODUCT NAME:

ARCSHINES18FC

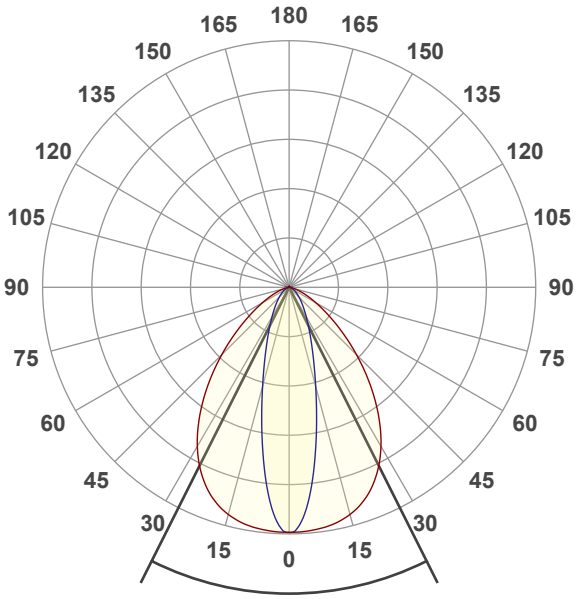
MEASURAMENT CONDITIONS:

Beam angle:
15°+10°x60° Filter

Target:
Green

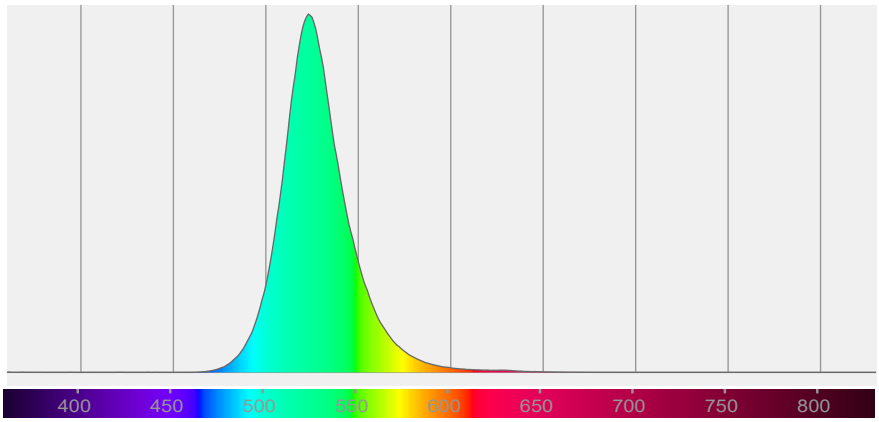
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:19:37



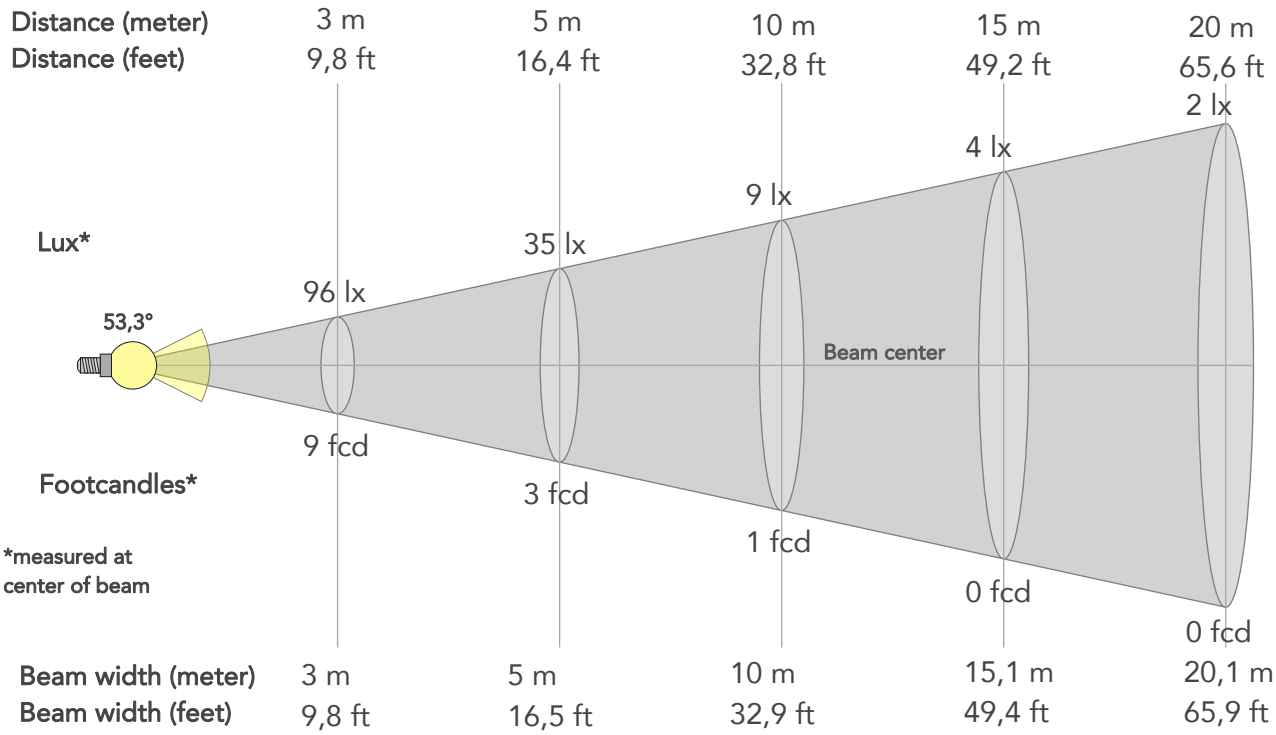
Beam angle 50%: 53,3°
Field angle 10%: 98,1°
Cut off angle 2.5%: 132,6°

Spectra



BEAM DETAILS

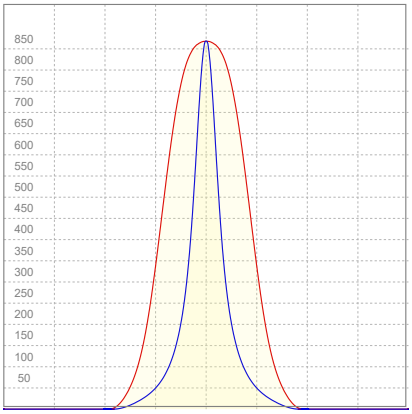
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,3°	98,1°	132,6°	94,3%	77,8%



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	867lx	217lx	96lx	54lx	35lx	15lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	81fcd	20fcd	9fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,5m	10m	15,1m	20,1m	25,1m	30,1m	40,2m	50,2m
Beam wid.	3,3ft	6,6ft	9,8ft	13,2ft	16,5ft	24,7ft	32,9ft	49,4ft	65,9ft	82,4ft	98,8ft	131,8ft	164,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,112A	21,6W	44lm/W

Power FC
0,86

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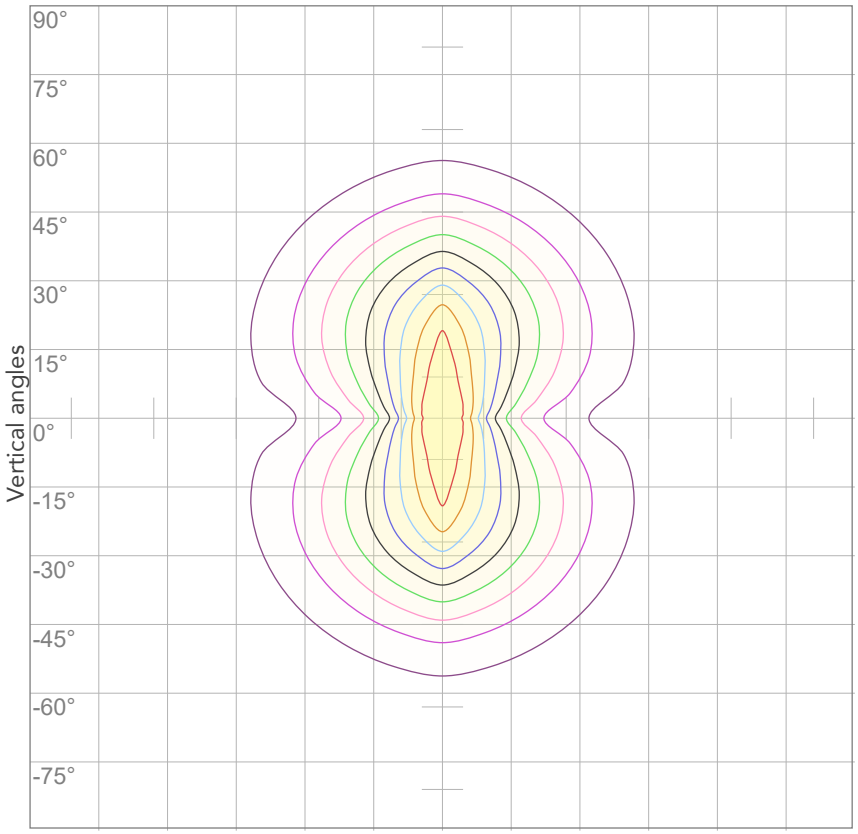
ISO DIAGRAMS

ISO CANDELA DIAGRAM



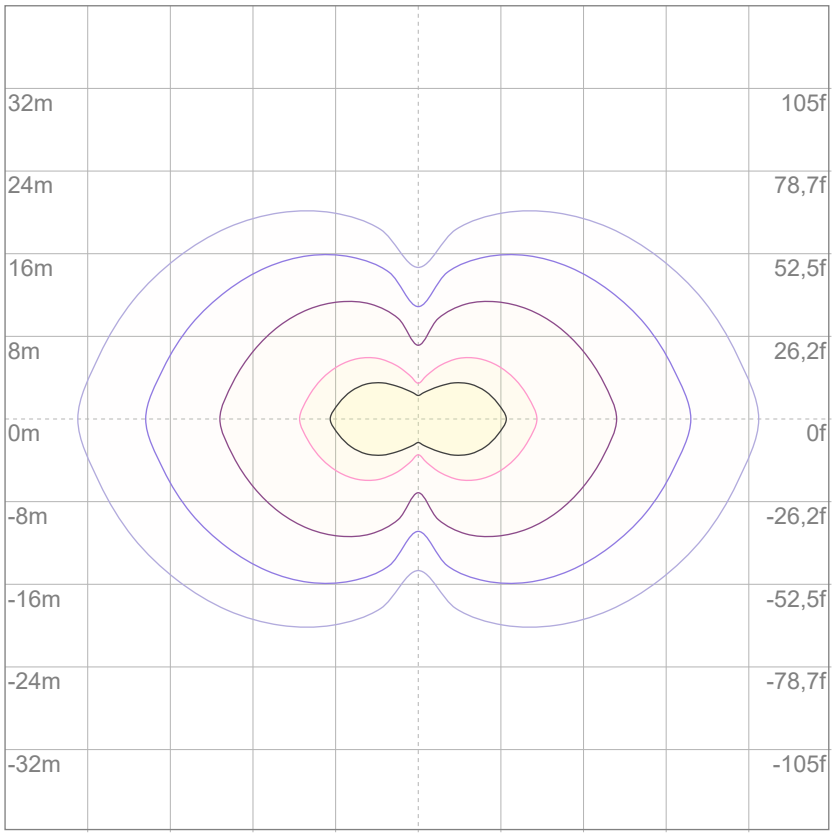
10%	87 cd
20%	173 cd
30%	260 cd
40%	347 cd
50%	434 cd
60%	520 cd
70%	607 cd
80%	694 cd

Conditions:

Number of c-planes: 4

Candela at center: 867 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,260 lx
5%	0,434 lx
10%	0,867 lx
30%	2,60 lx
50%	4,34 lx

Conditions:

Number of c-planes: 4

Lux at center: 8,67 lx

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

Total lumen output:

778 lm

Peak candela output:

707 cd

PRODUCT NAME:

ARCSHINES18FC

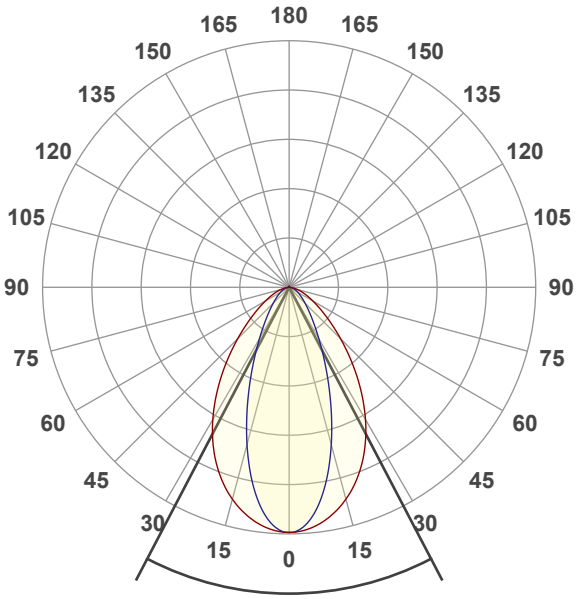
MEASURAMENT CONDITIONS:

Beam angle:
15°+30°x60° Filter

Target:
Green

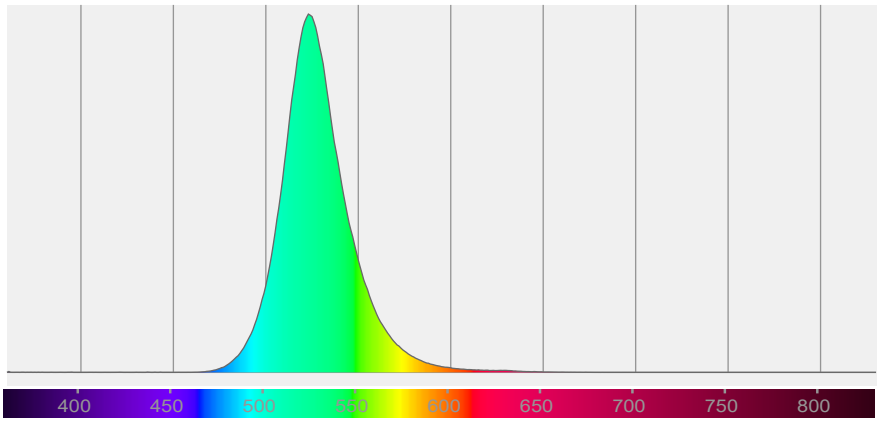
Operator:
Paolo Carvone

Date and time:
30/03/2022 13:08:00



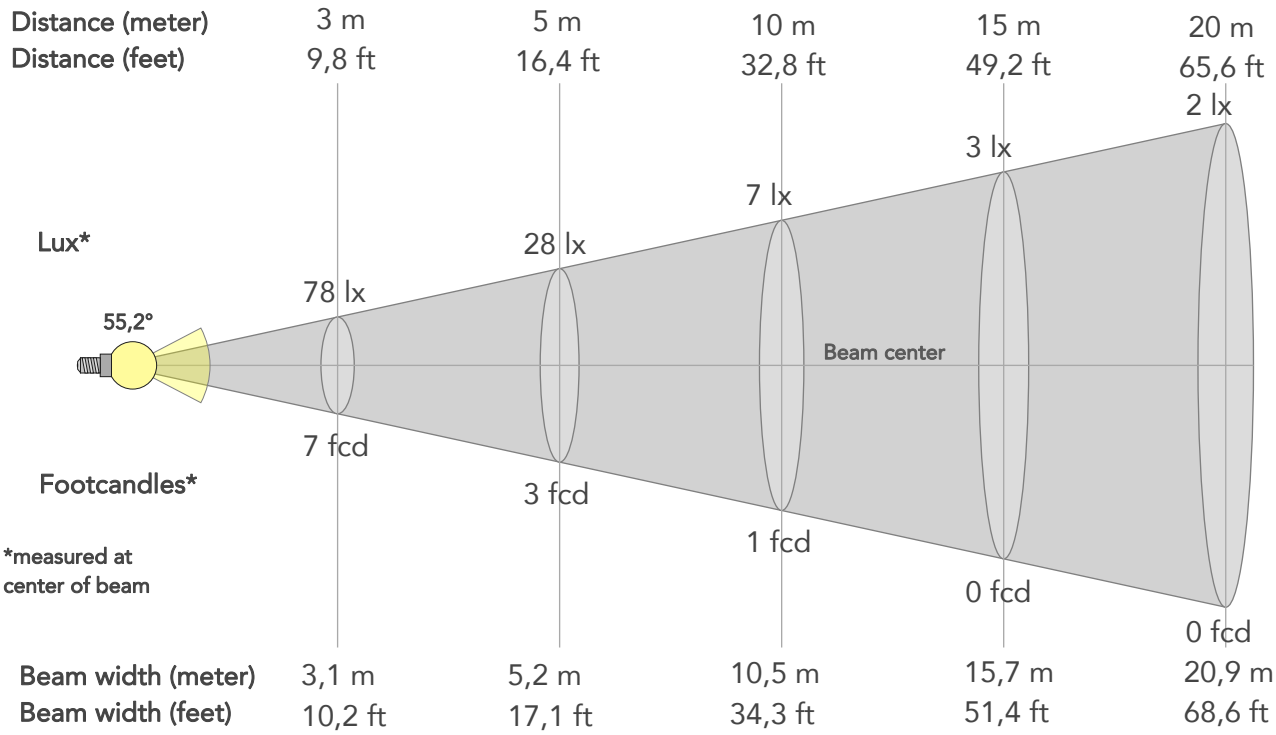
Beam angle 50%: 55,2°
Field angle 10%: 105,3°
Cut off angle 2.5%: 146,1°

Spectra



BEAM DETAILS

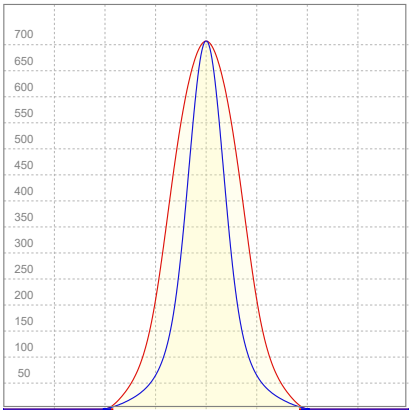
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55,2°	105,3°	146,1°	92,0%	77,2%



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	706lx	177lx	78lx	44lx	28lx	13lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	66fcd	16fcd	7fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2,1m	3,1m	4,2m	5,2m	7,8m	10,5m	15,7m	20,9m	26,1m	31,4m	41,8m	52,3m
Beam wid.	3,4ft	6,9ft	10,2ft	13,7ft	17,1ft	25,7ft	34,3ft	51,4ft	68,6ft	85,7ft	102,9ft	137,1ft	171,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,214A	20,8W	37lm/W

Power FC
0,43

Via A. Olivetti snc
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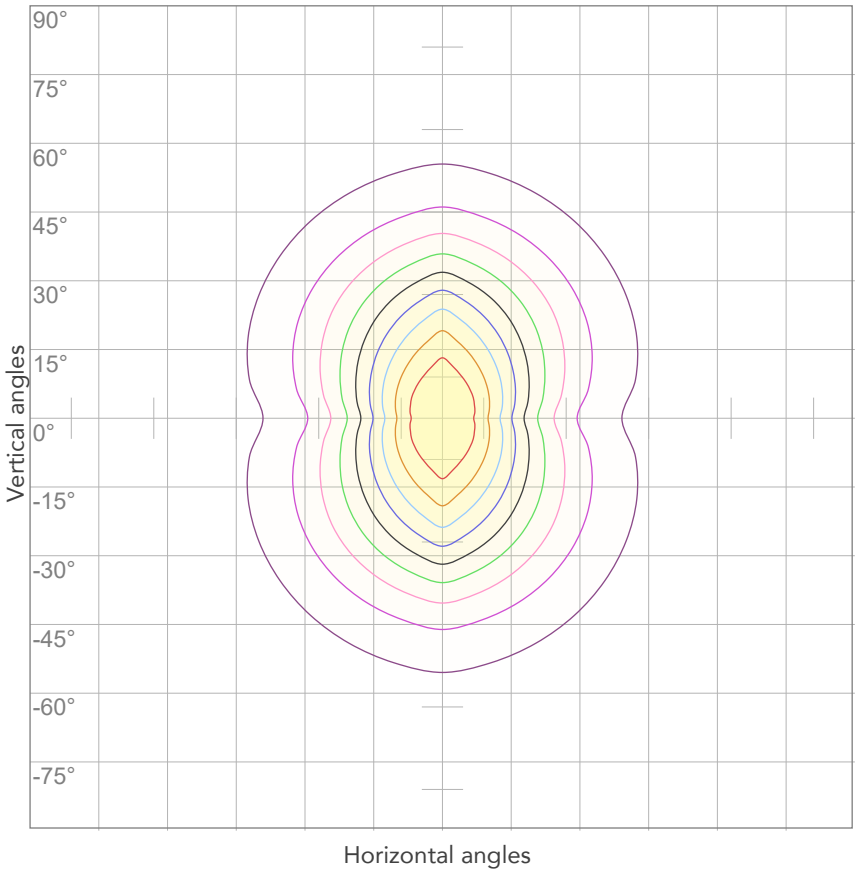
ISO DIAGRAMS

ISO CANDELA DIAGRAM



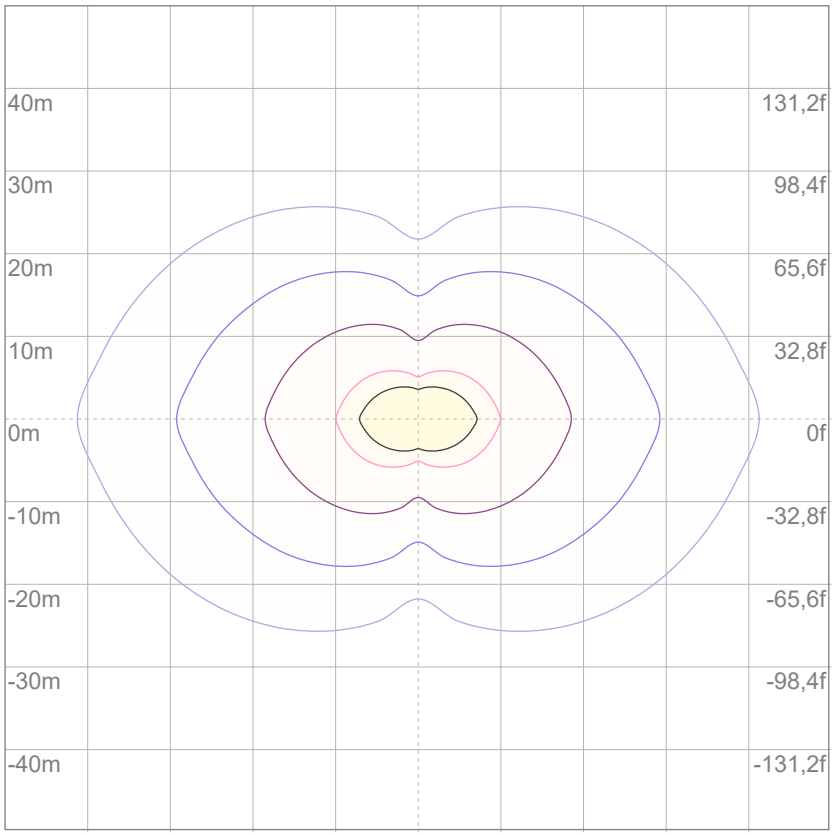
10%	71 cd
20%	141 cd
30%	212 cd
40%	283 cd
50%	353 cd
60%	424 cd
70%	495 cd
80%	565 cd

Conditions:

Number of c-planes: 4

Candela at center: 706 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,212 lx
5%	0,353 lx
10%	0,706 lx
30%	2,12 lx
50%	3,53 lx

Conditions:

Number of c-planes: 4

Lux at center: 7,06 lx

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

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Total lumen output:

205 lm

Peak candela output:

1137 cd

PRODUCT NAME:

ARCSHINES18FC

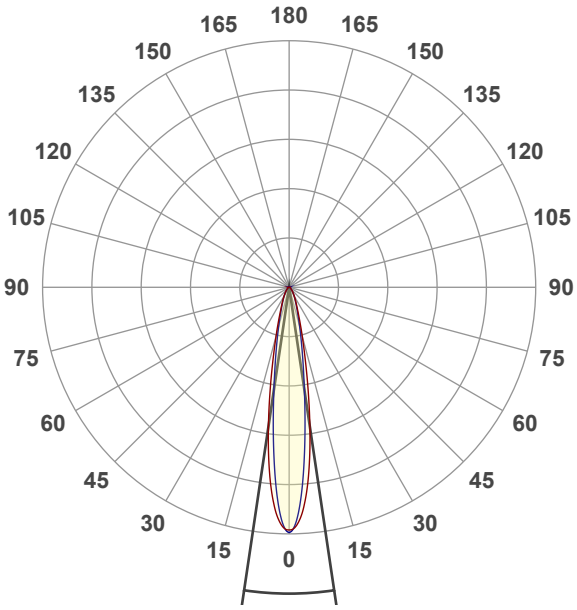
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
Blue

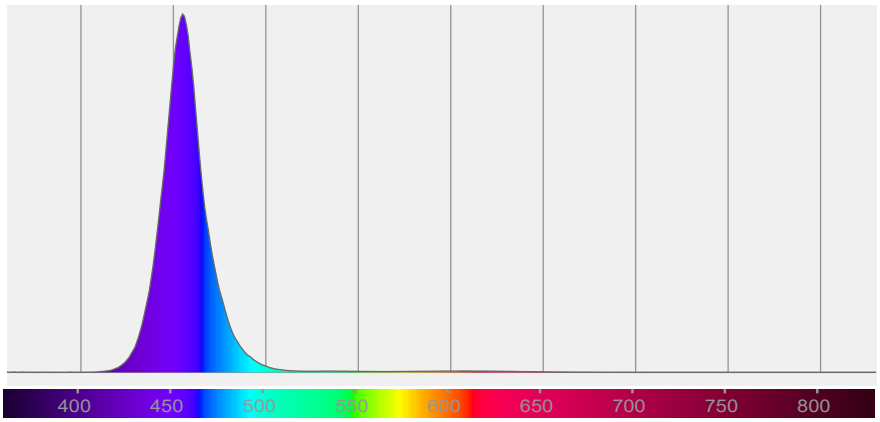
Operator:
Paolo Carvone

Date and time:
29/03/2022 18:29:46



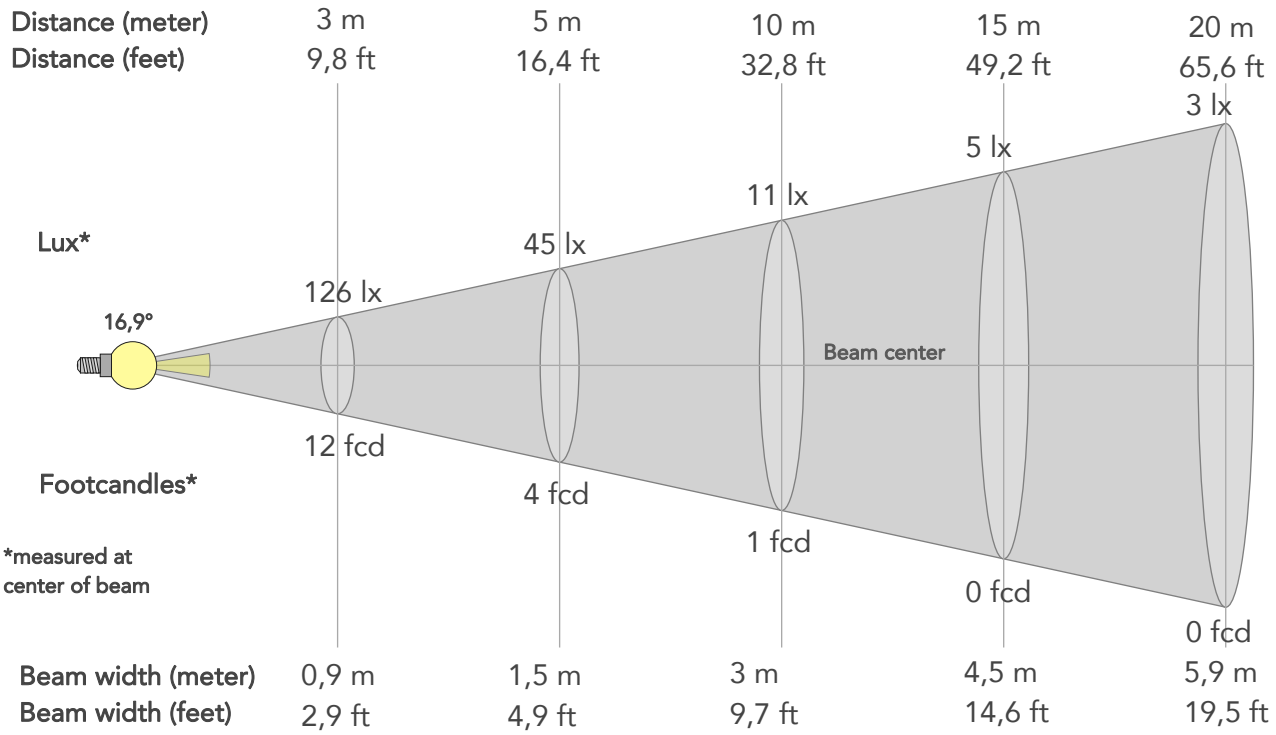
Beam angle 50%: 16,9°
Field angle 10%: 39,6°
Cut off angle 2.5%: 72,5°

Spectra



BEAM DETAILS

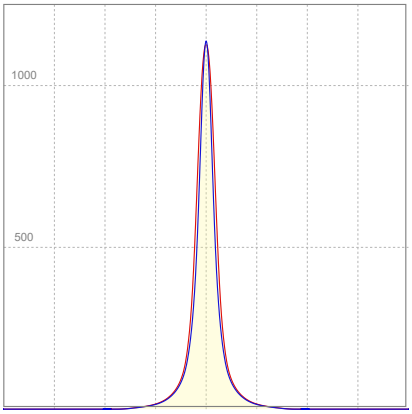
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,9°	39,6°	72,5°	98,2%	92,2%



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	1131lx	283lx	126lx	71lx	45lx	20lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	105fcd	26fcd	12fcd	7fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,2m	3m	4,5m	5,9m	7,4m	8,9m	11,9m	14,9m
Beam wid.	1ft	2ft	2,9ft	3,9ft	4,9ft	7,3ft	9,7ft	14,6ft	19,5ft	24,4ft	29,2ft	39ft	48,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,114A	22,1W	9lm/W

Power FC
0,86

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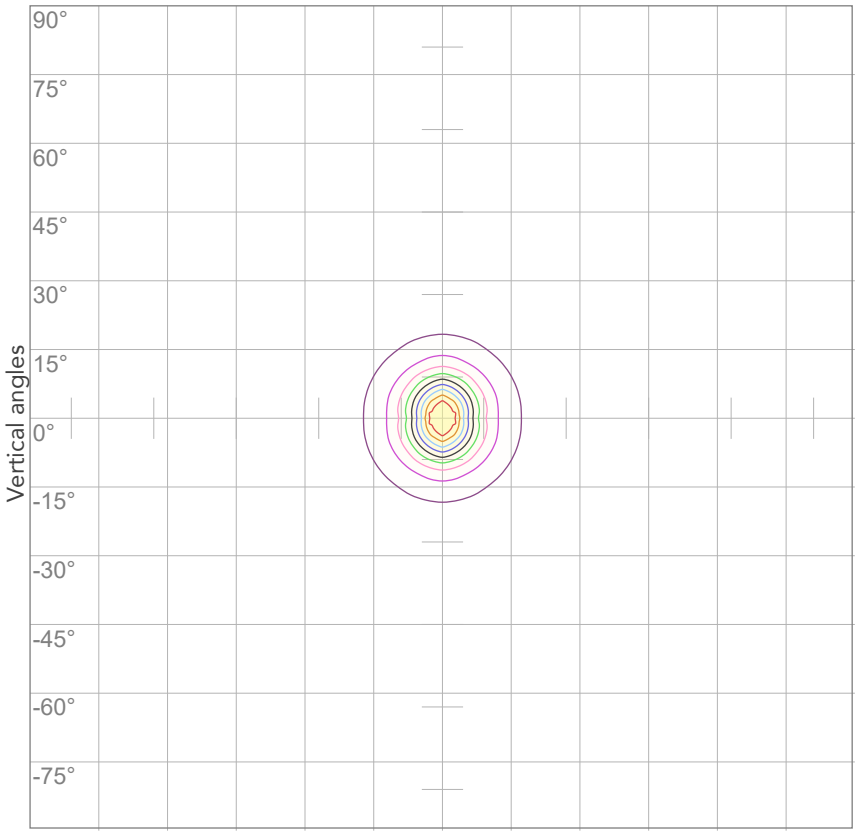
ISO DIAGRAMS

ISO CANDELA DIAGRAM



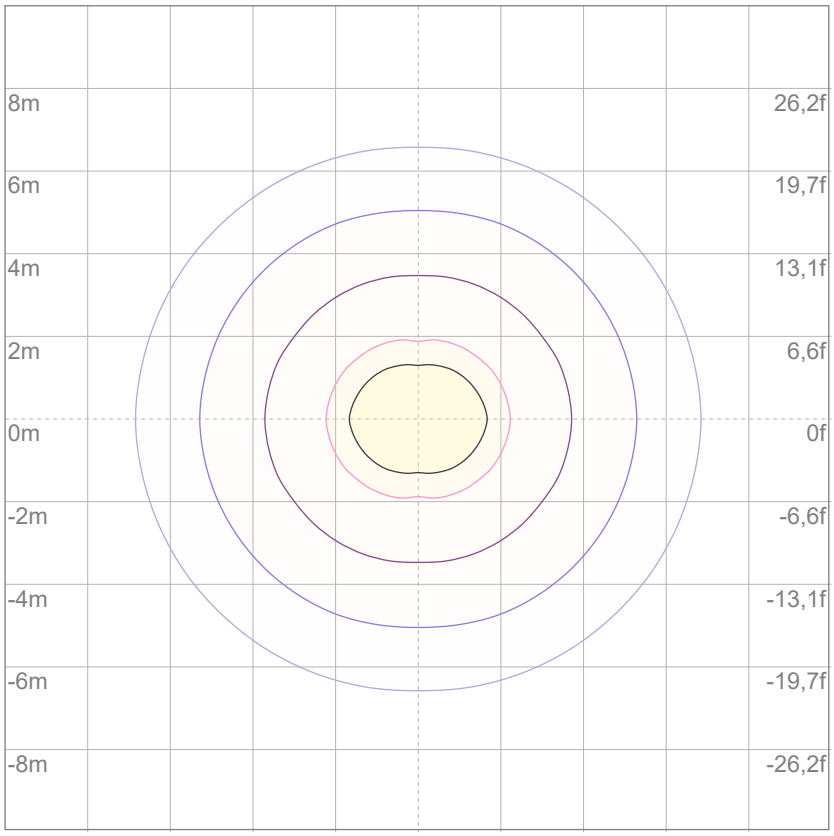
10%	113 cd
20%	226 cd
30%	339 cd
40%	453 cd
50%	566 cd
60%	679 cd
70%	792 cd
80%	905 cd

Conditions:

Number of c-planes: 4

Candela at center: 1131 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,339 lx
5%	0,566 lx
10%	1,13 lx
30%	3,39 lx
50%	5,66 lx

Conditions:

Number of c-planes: 4

Lux at center: 11,3 lx

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

Total lumen output:

199 lm

Peak candela output:

410 cd

PRODUCT NAME:

ARCSHINES18FC

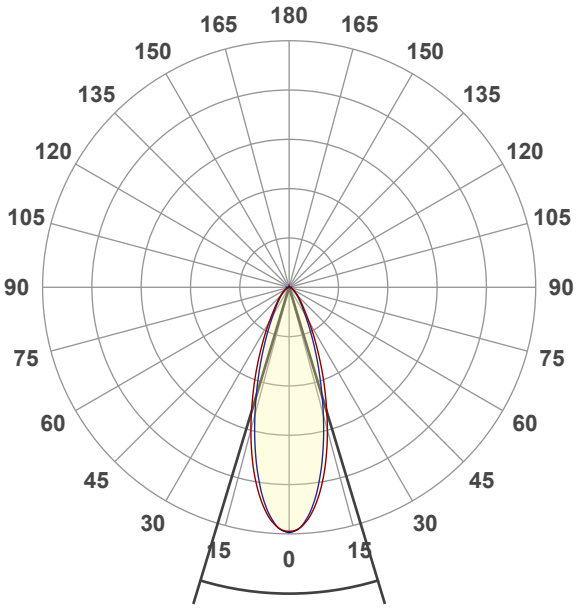
MEASURAMENT CONDITIONS:

Beam angle:
15°+20° Filter

Target:
Blue

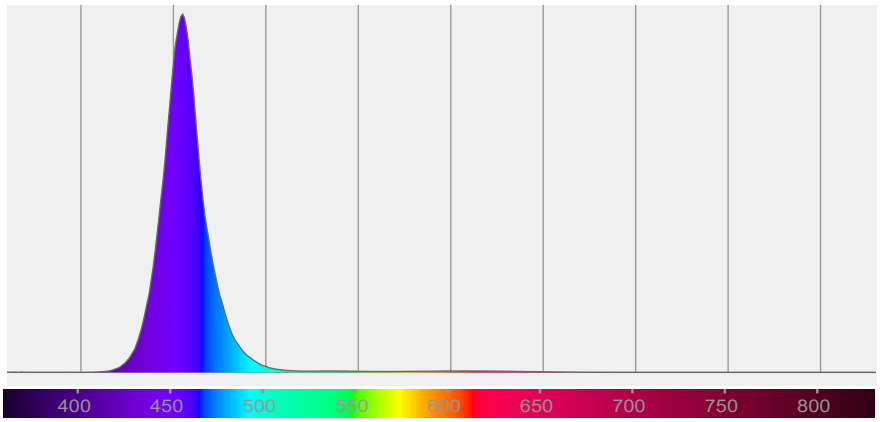
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:01:49



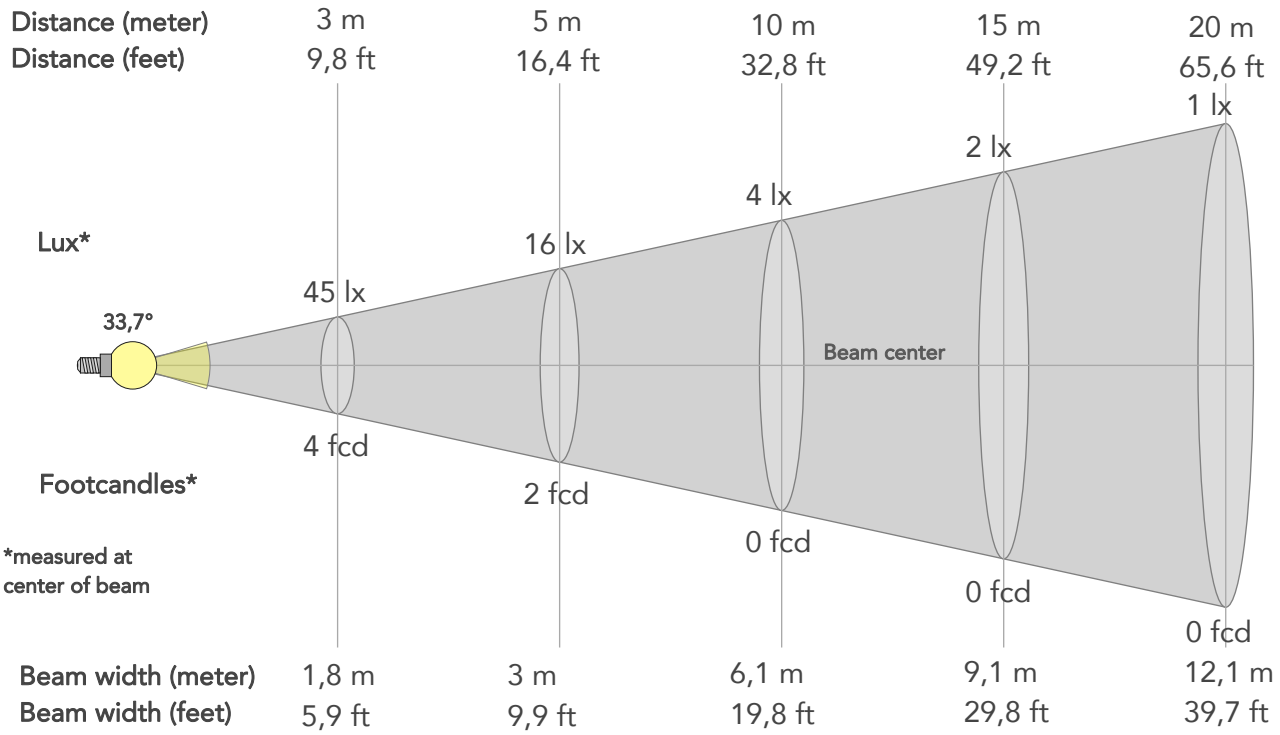
Beam angle 50%: 33,7°
Field angle 10%: 68,7°
Cut off angle 2.5%: 109,3°

Spectra



BEAM DETAILS

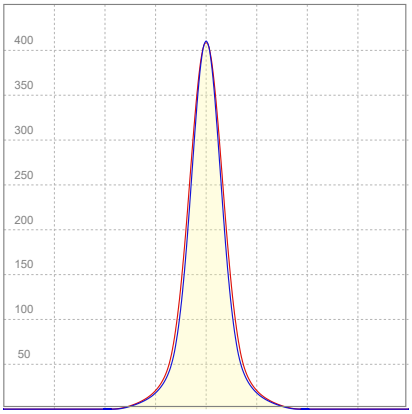
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
33,7°	68,7°	109,3°	97,1%	89,2%



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	409lx	102lx	45lx	26lx	16lx	7lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	38fcd	10fcd	4fcd	2fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	3m	4,5m	6,1m	9,1m	12,1m	15,1m	18,2m	24,2m	30,3m
Beam wid.	2ft	4ft	5,9ft	7,9ft	9,9ft	14,9ft	19,8ft	29,8ft	39,7ft	49,6ft	59,5ft	79,4ft	99,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,116A	22,3W	9lm/W

Power FC
0,86

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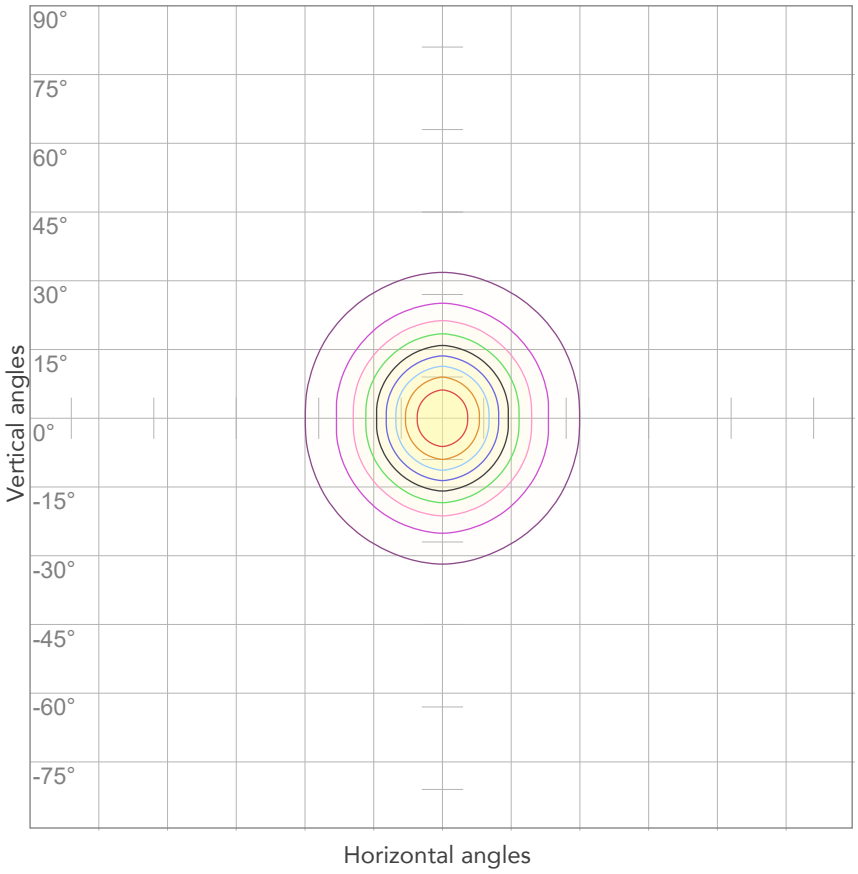
ISO DIAGRAMS

ISO CANDELA DIAGRAM



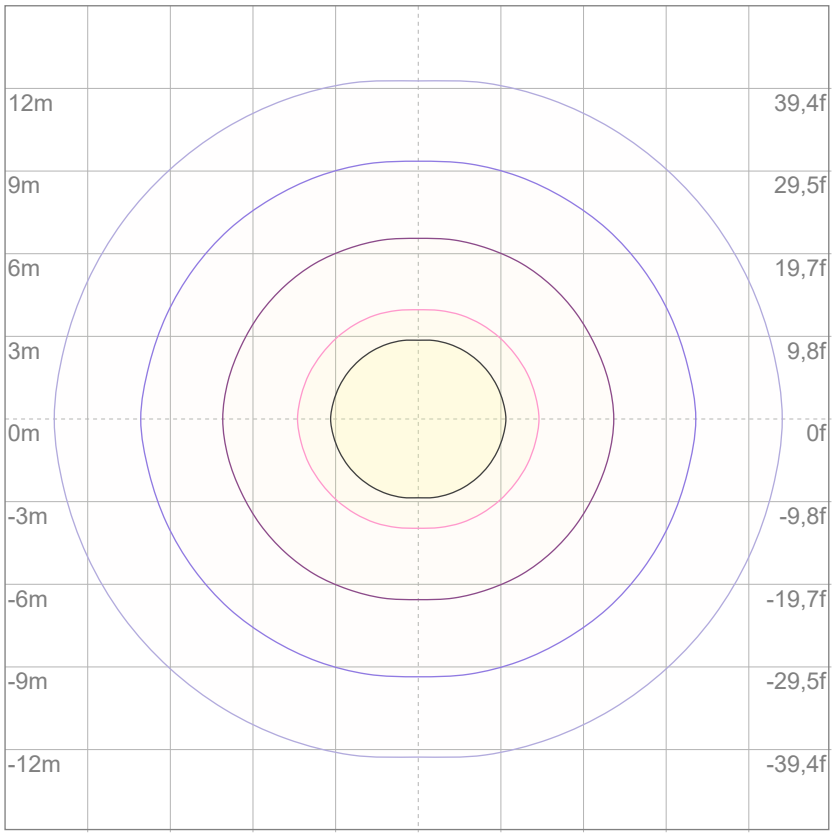
10%	41 cd
20%	82 cd
30%	123 cd
40%	164 cd
50%	205 cd
60%	245 cd
70%	286 cd
80%	327 cd

Conditions:

Number of c-planes: 4

Candela at center: 409 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,123 lx
5%	0,205 lx
10%	0,409 lx
30%	1,23 lx
50%	2,05 lx

Conditions:

Number of c-planes: 4

Lux at center: 4,09 lx

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

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Total lumen output:

199 lm

Peak candela output:

128 cd

PRODUCT NAME:

ARCSHINES18FC

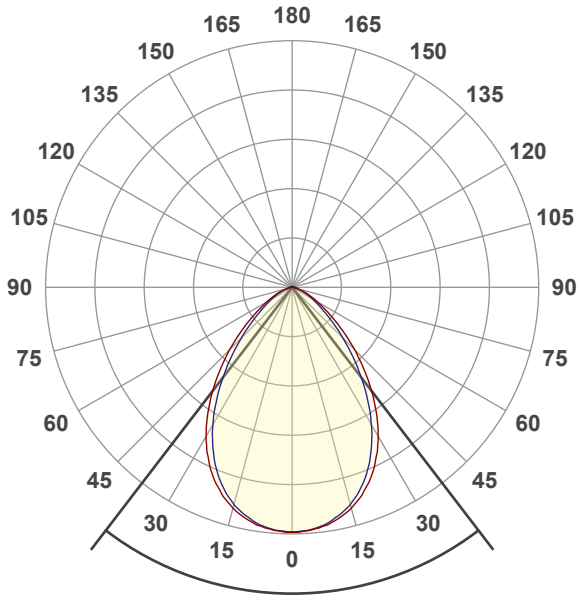
MEASURAMENT CONDITIONS:

Beam angle:
15°+60° Filter

Target:
Blue

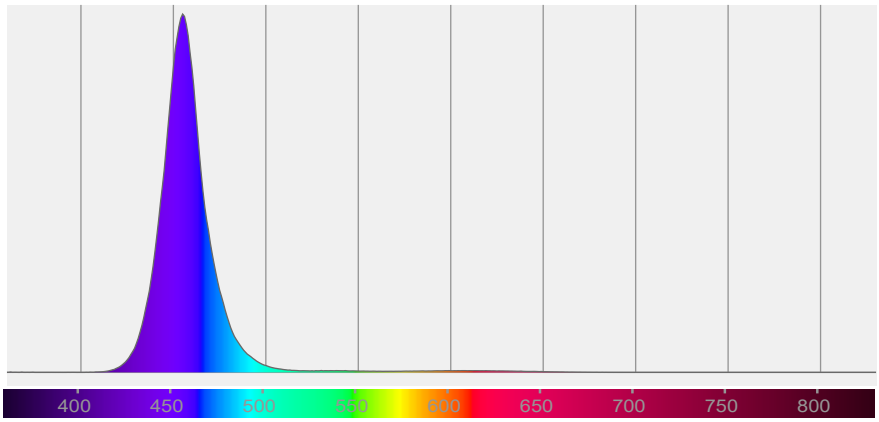
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:40:21



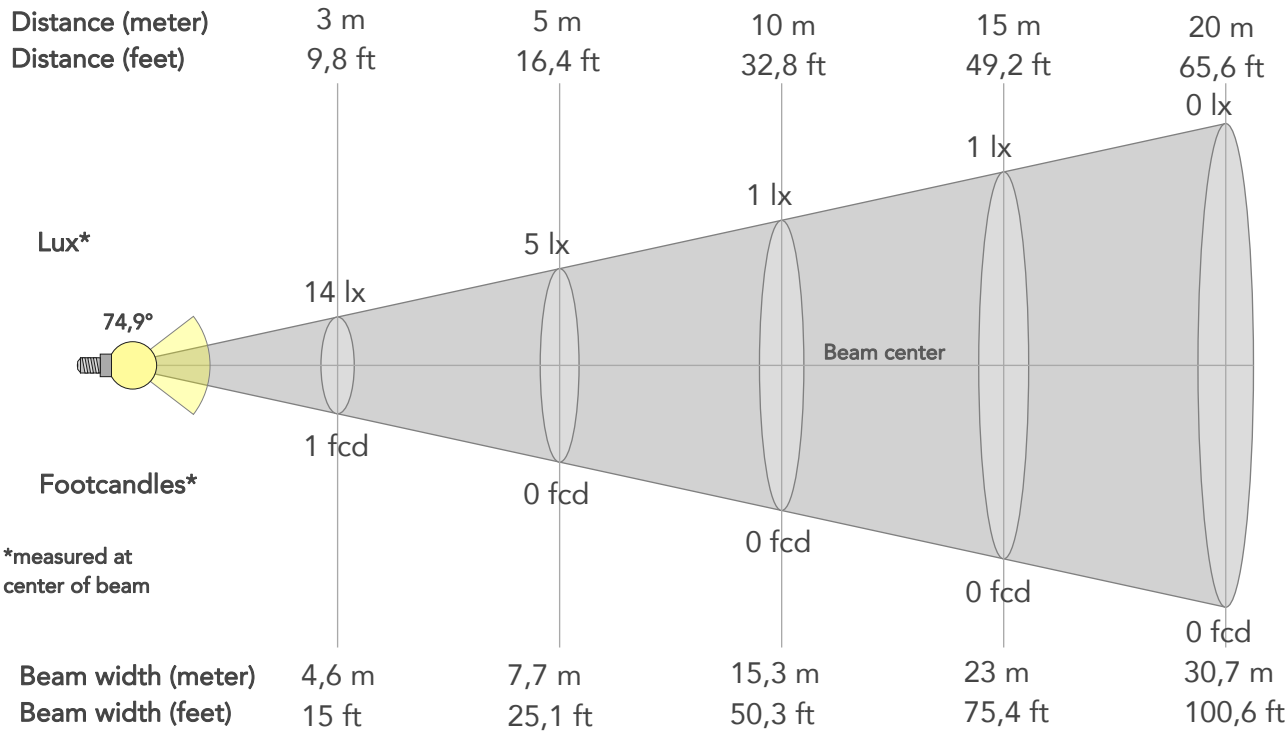
Beam angle 50%: 74,9°
Field angle 10%: 121,8°
Cut off angle 2.5%: 147,6°

Spectra



BEAM DETAILS

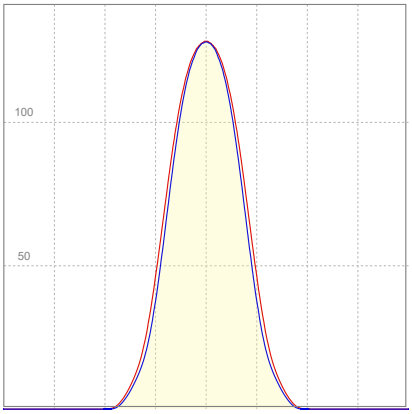
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,9°	121,8°	147,6°	93,8%	77,2%



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	128lx	32lx	14lx	8lx	5lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	12fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3,1m	4,6m	6,1m	7,7m	11,5m	15,3m	23m	30,7m	38,3m	46m	61,3m	76,6m
Beam wid.	5,1ft	10,1ft	15ft	20,1ft	25,1ft	37,7ft	50,3ft	75,4ft	100,6ft	125,7ft	150,8ft	201,1ft	251,4ft

LINEAR DISTRIBUTION DIAGRAM



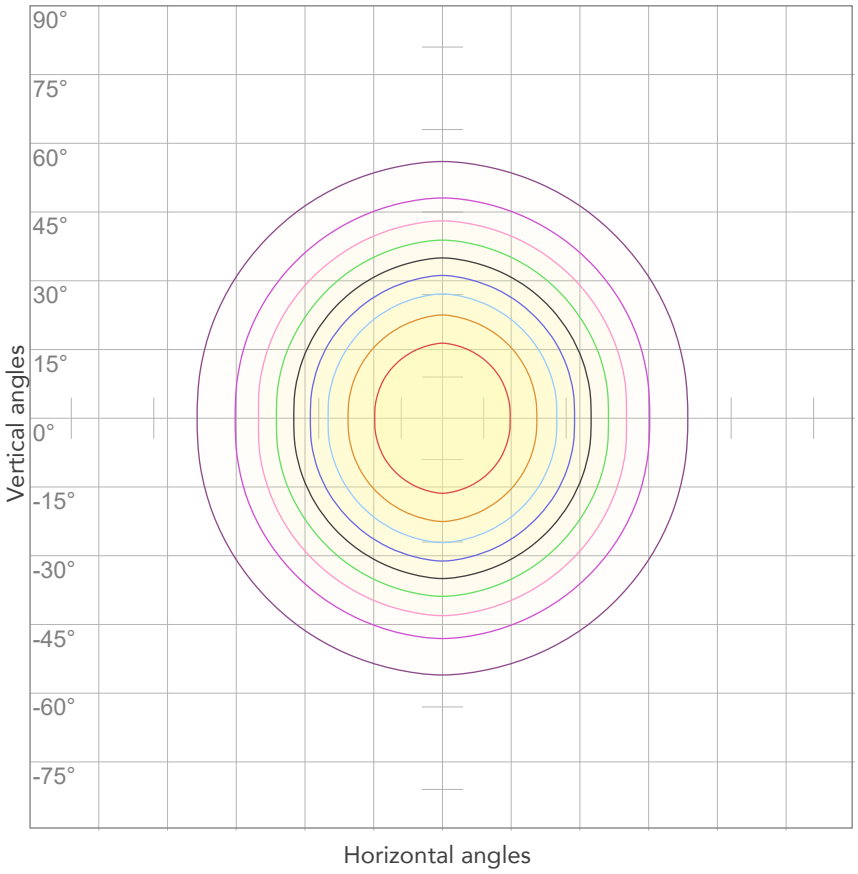
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,115A	22,2W	9lm/W

Power FC
0,86

ISO DIAGRAMS

ISO CANDELA DIAGRAM



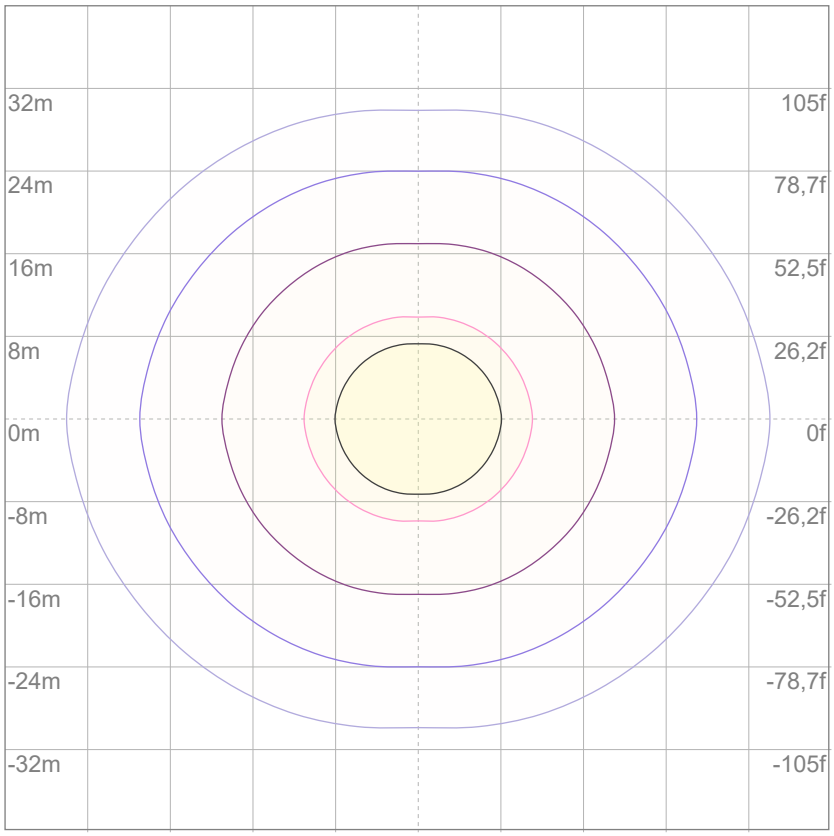
10%	13 cd
20%	26 cd
30%	38 cd
40%	51 cd
50%	64 cd
60%	77 cd
70%	90 cd
80%	103 cd

Conditions:

Number of c-planes: 4

Candela at center: 128 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	38,4m lx
5%	64,1m lx
10%	0,128 lx
30%	0,384 lx
50%	0,641 lx

Conditions:

Number of c-planes: 4

Lux at center: 1,28 lx

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

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Total lumen output:

263 lm

Peak candela output:

258 cd

PRODUCT NAME:

ARCSHINES18FC

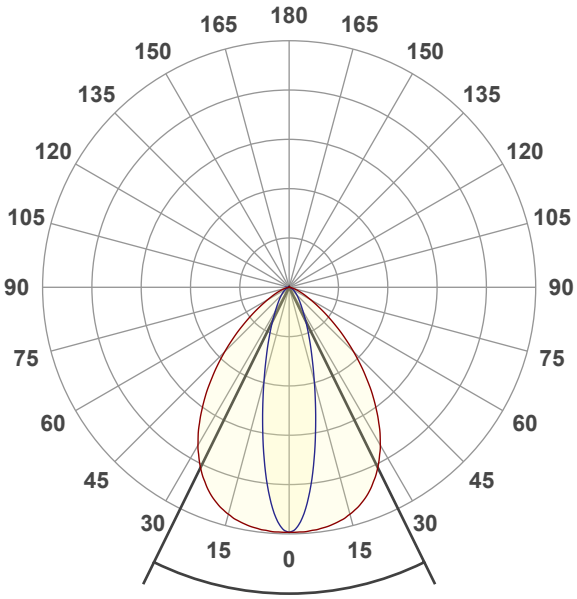
MEASURAMENT CONDITIONS:

Beam angle:
15°+10°x60° Filter

Target:
Blue

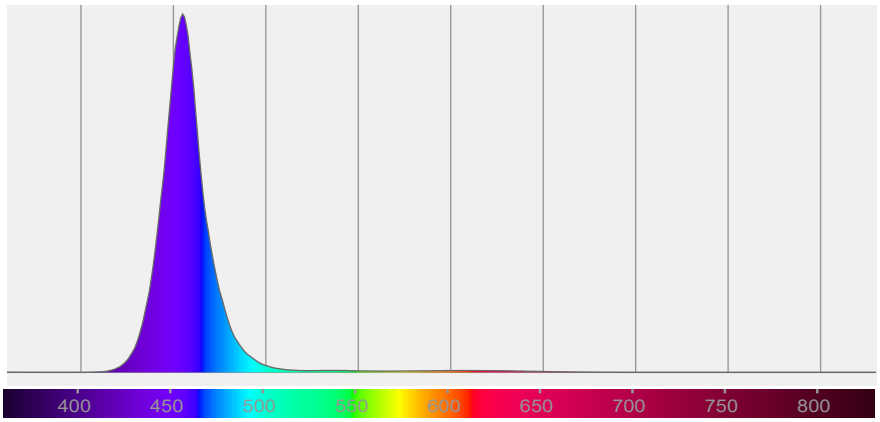
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:22:45



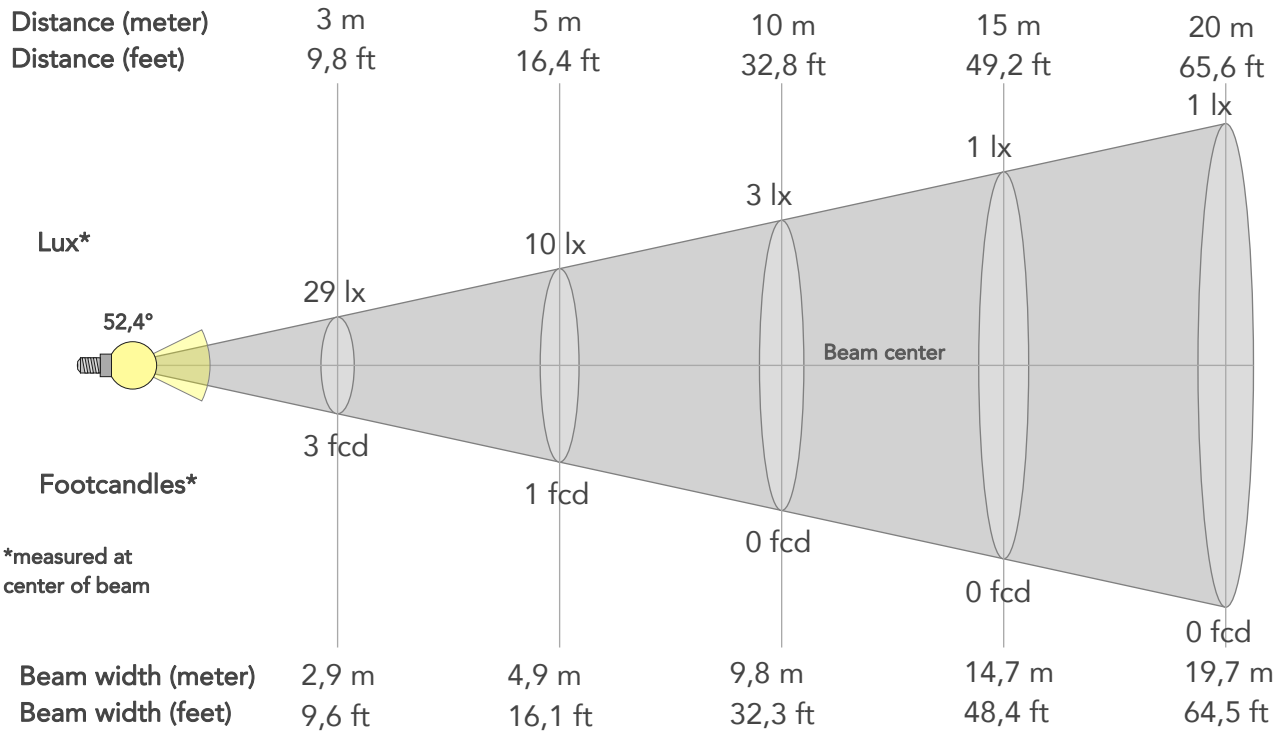
Beam angle 50%: 52,4°
Field angle 10%: 91,8°
Cut off angle 2.5%: 127,1°

Spectra



BEAM DETAILS

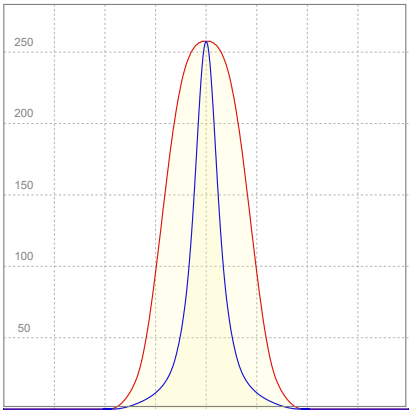
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,4°	91,8°	127,1°	95,3%	79,8%



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	257lx	64lx	29lx	16lx	10lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	24fcd	6fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	2,9m	3,9m	4,9m	7,4m	9,8m	14,7m	19,7m	24,6m	29,5m	39,3m	49,2m
Beam wid.	3,2ft	6,5ft	9,6ft	12,9ft	16,1ft	24,2ft	32,3ft	48,4ft	64,5ft	80,6ft	96,8ft	129ft	161,3ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,115A	22,2W	12lm/W

Power FC
0,86

Via A. Olivetti snc
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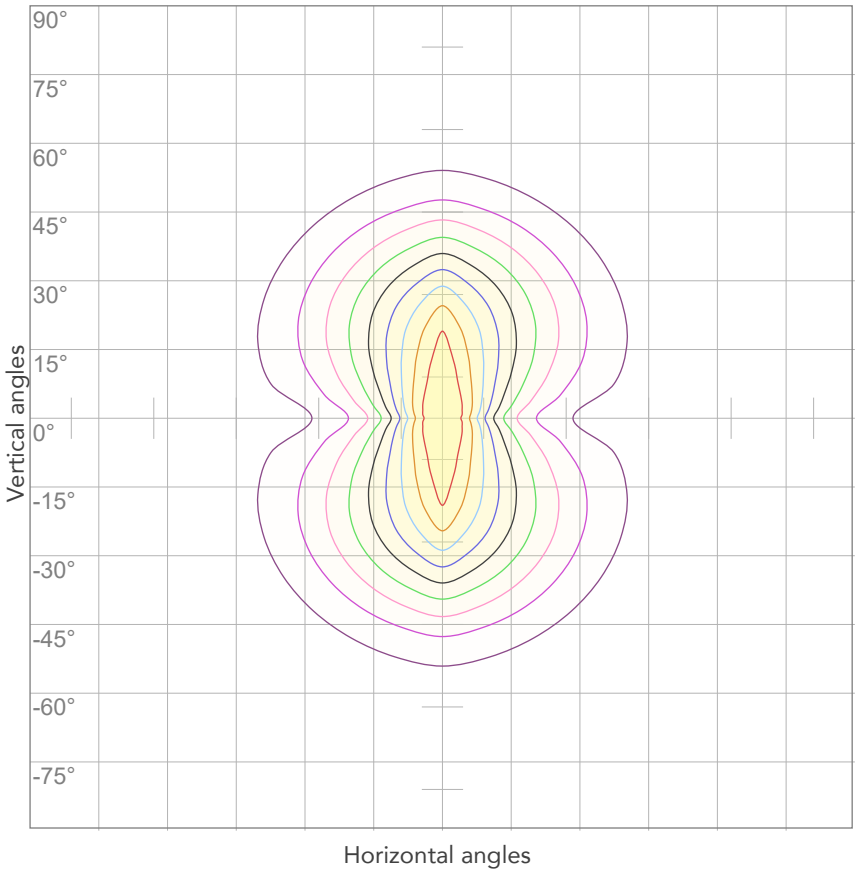
ISO DIAGRAMS

ISO CANDELA DIAGRAM



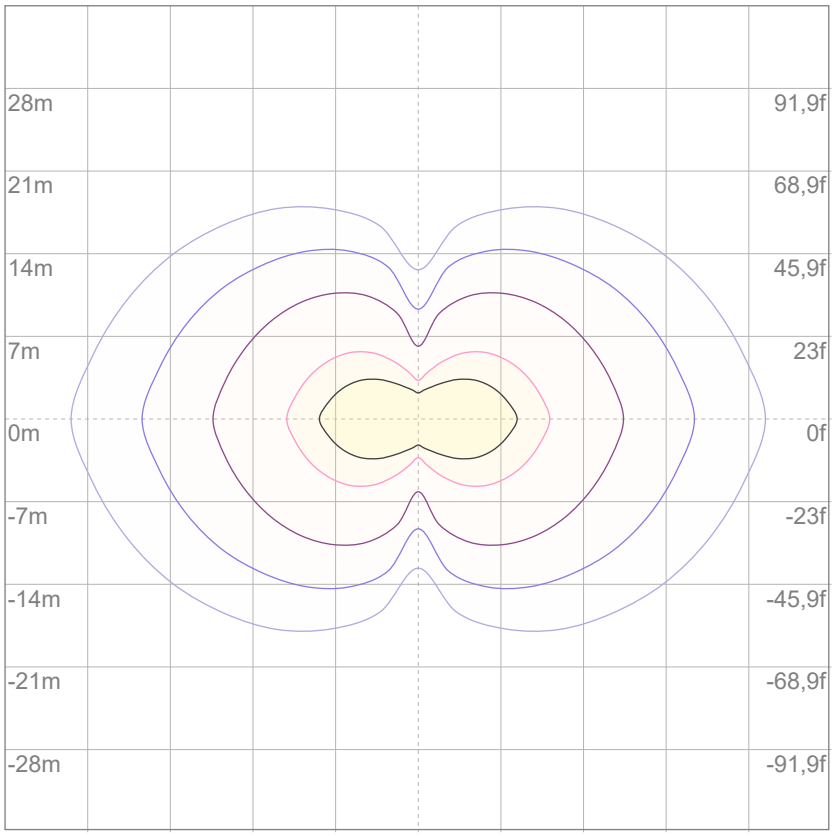
10%	26 cd
20%	51 cd
30%	77 cd
40%	103 cd
50%	129 cd
60%	154 cd
70%	180 cd
80%	206 cd

Conditions:

Number of c-planes: 4

Candela at center: 257 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	77,2m lx
5%	0,129 lx
10%	0,257 lx
30%	0,772 lx
50%	1,29 lx

Conditions:

Number of c-planes: 4

Lux at center: 2,57 lx

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

Total lumen output:

209 lm

Peak candela output:

206 cd

PRODUCT NAME:

ARCSHINES18FC

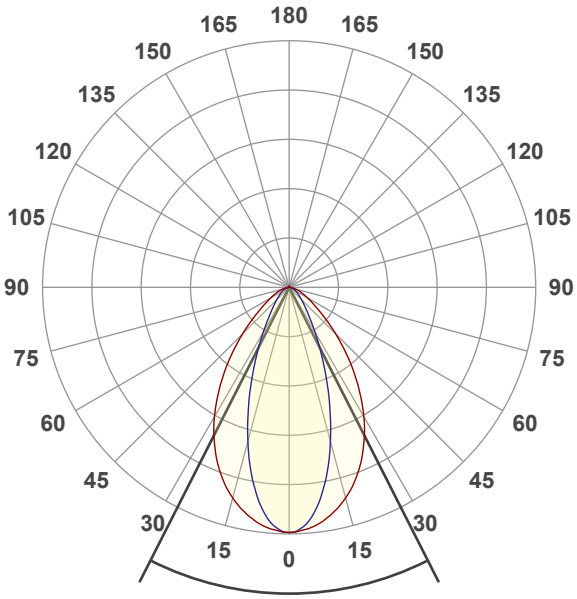
MEASURAMENT CONDITIONS:

Beam angle:
15°+30°x60° Filter

Target:
Blue

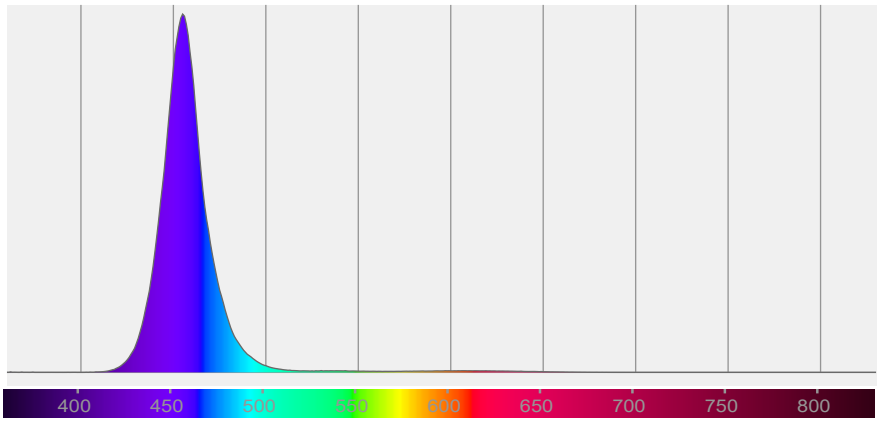
Operator:
Paolo Carvone

Date and time:
30/03/2022 13:10:48



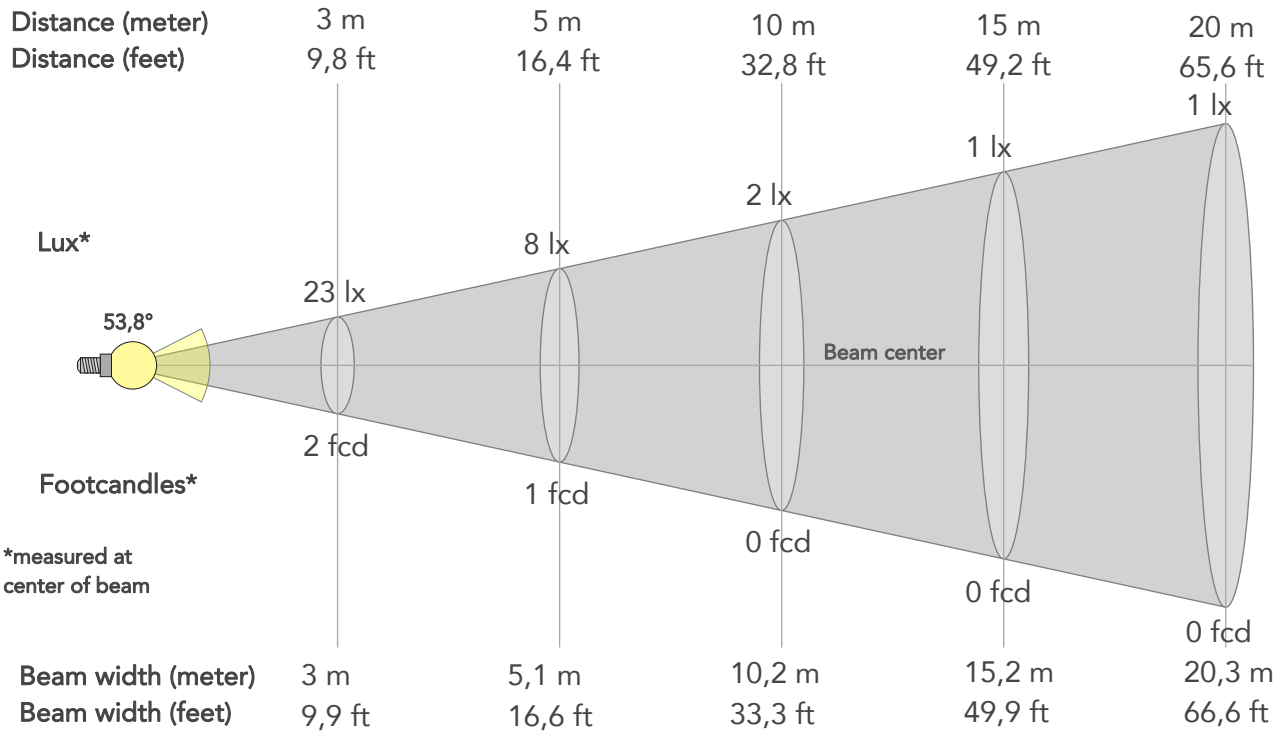
Beam angle 50%: 53,8°
Field angle 10%: 97,5°
Cut off angle 2.5%: 139,1°

Spectra



BEAM DETAILS

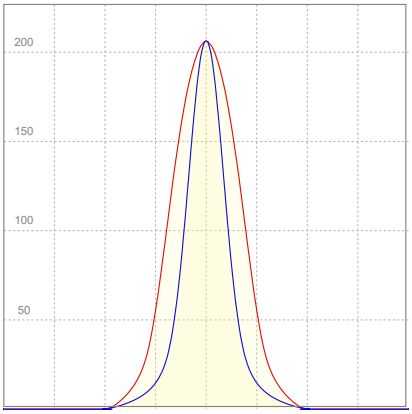
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,8°	97,5°	139,1°	93,4%	80,3%



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	206lx	52lx	23lx	13lx	8lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	19fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4,1m	5,1m	7,6m	10,2m	15,2m	20,3m	25,4m	30,5m	40,6m	50,8m
Beam wid.	3,4ft	6,7ft	9,9ft	13,3ft	16,6ft	25ft	33,3ft	49,9ft	66,6ft	83,2ft	99,9ft	133,2ft	166,5ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,227A	21,4W	10lm/W

Power FC
0,42

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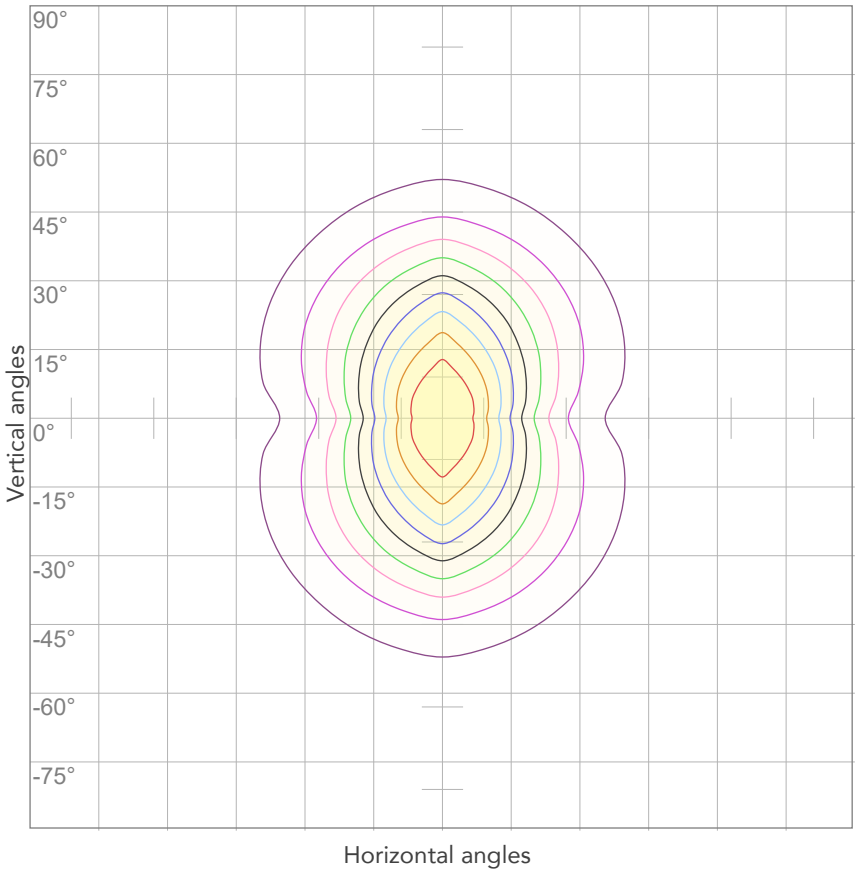
ISO DIAGRAMS

ISO CANDELA DIAGRAM



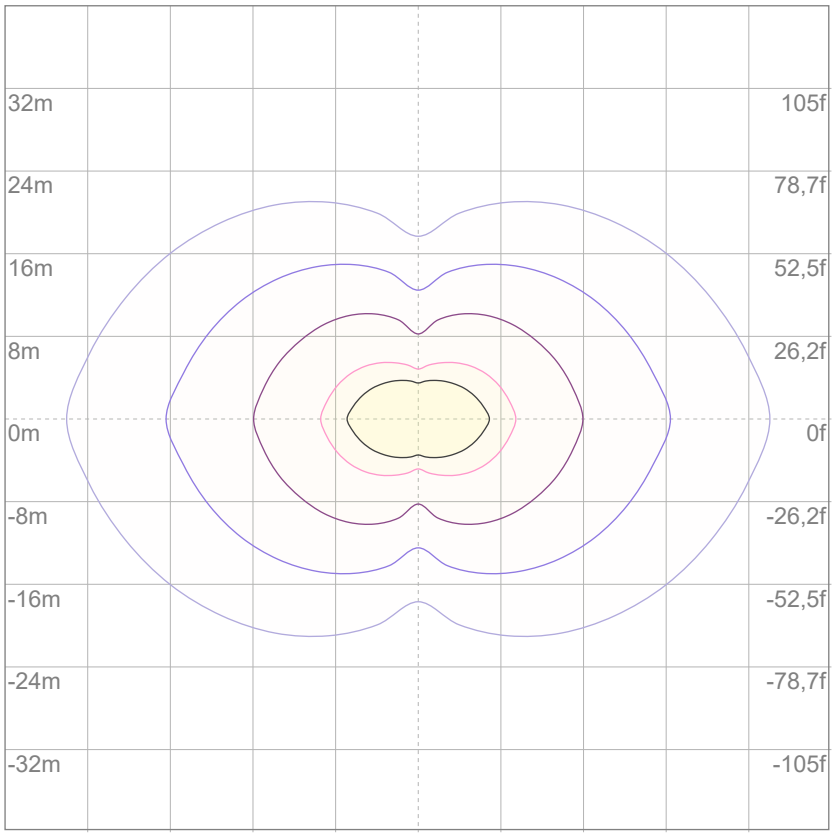
10%	21 cd
20%	41 cd
30%	62 cd
40%	82 cd
50%	103 cd
60%	124 cd
70%	144 cd
80%	165 cd

Conditions:

Number of c-planes: 4

Candela at center: 206 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	61,8m lx
5%	0,103 lx
10%	0,206 lx
30%	0,618 lx
50%	1,03 lx

Conditions:

Number of c-planes: 4

Lux at center: 2,06 lx

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

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Total lumen output:

721 lm

Peak candela output:

3803 cd

Light quality:

CRI: 85,3

Color temperature:

2884 K

PRODUCT NAME:

ARCSHINES18FC

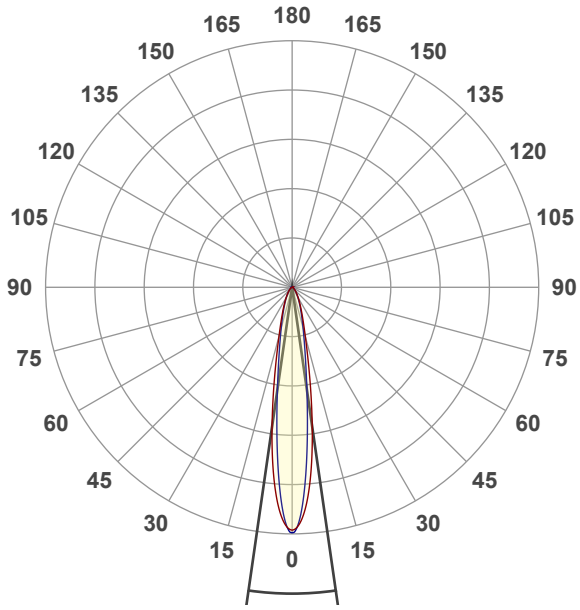
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
White

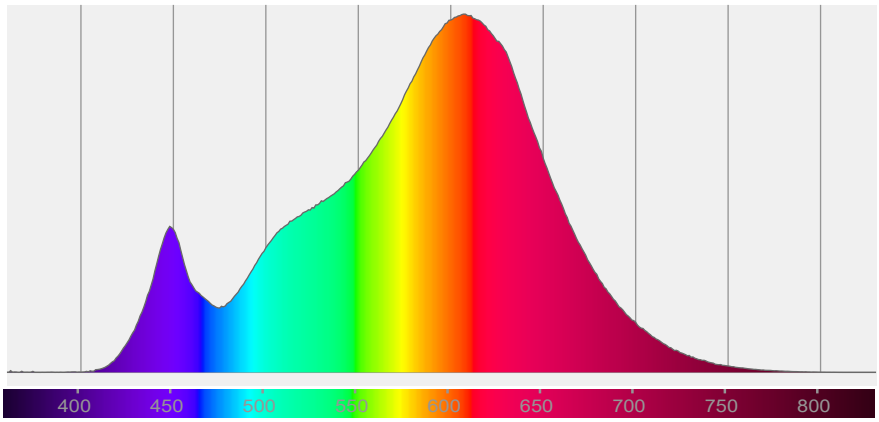
Operator:
Paolo Carvone

Date and time:
29/03/2022 18:34:41



Beam angle 50%: 16,4°
Field angle 10%: 42,5°
Cut off angle 2.5%: 76,8°

Spectra



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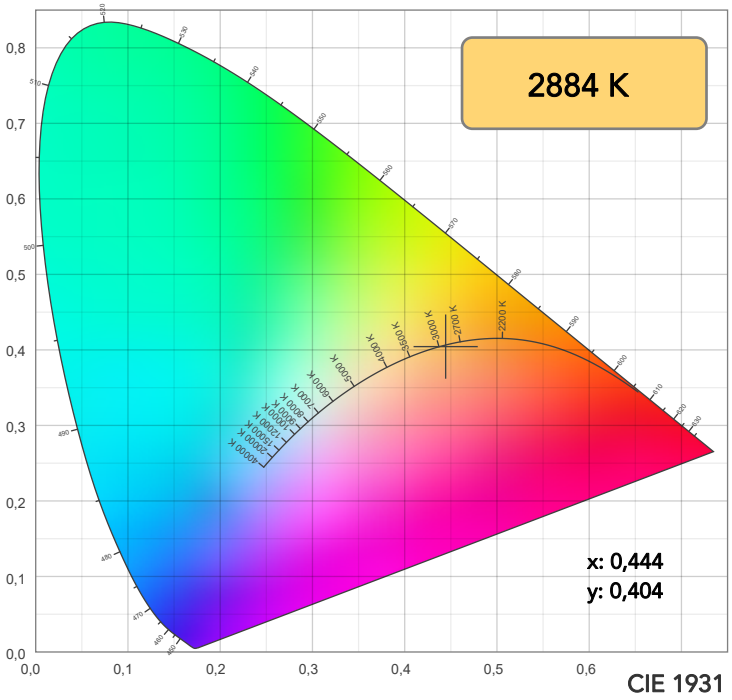
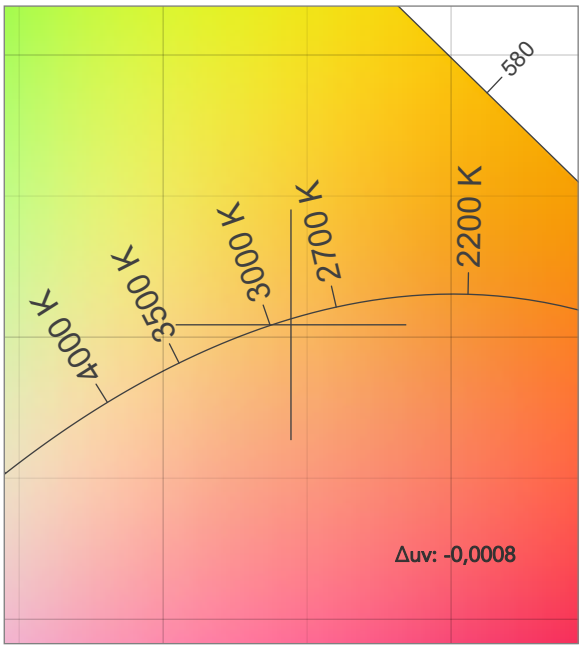
COLOR DETAILS

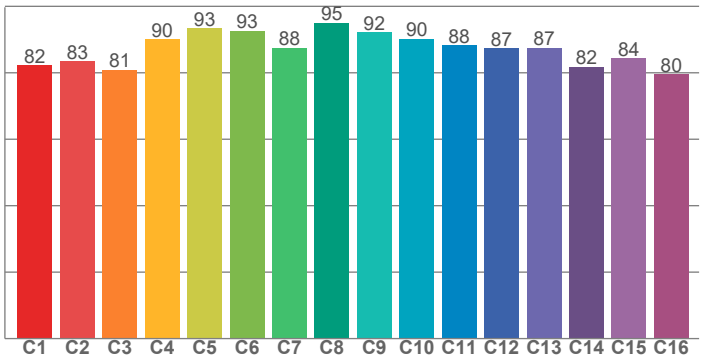


CIE 1931

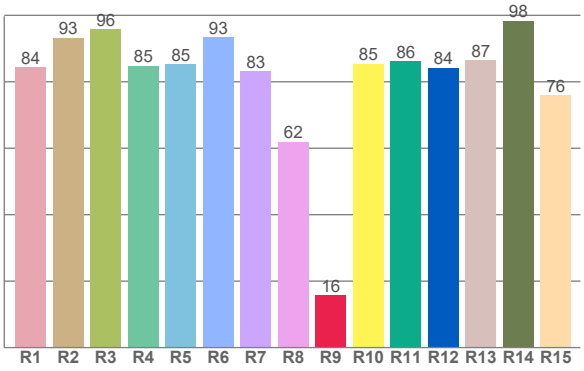


CIE 1931 ZOOM

TM30: 87,3



CRI: 85,3 (R1-R8)



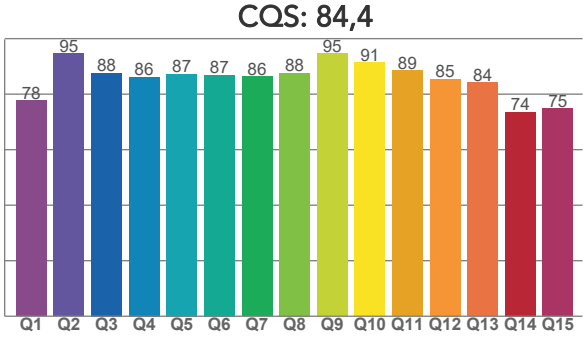
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,3	93,3	95,9	84,8	85,3	93,4	83,3	61,9	15,8	85,4	86,1	84,2	86,6	98,4	75,9

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,2	83,4	80,9	90,1	93,4	92,6	87,6	95,0	92,2	90,3	88,2	87,3	87,4	81,8	84,3	79,6

CQS: 84,4



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77,8	94,7	87,6	86,1	87,3	86,9	86,3	87,6	94,6	91,3	88,5	85,5	84,1	73,6	74,8

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2884 K	85,3	15,8	87,3	97,4	84,4	70	0,444	0,404	-0,0008

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TM30 DETAILS

PROLiGHTS

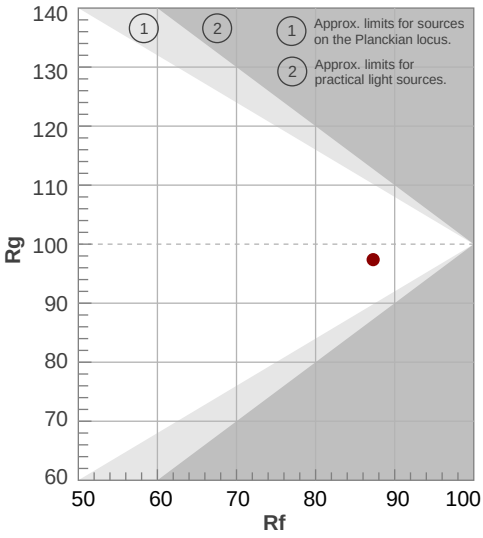
Rf 87,3

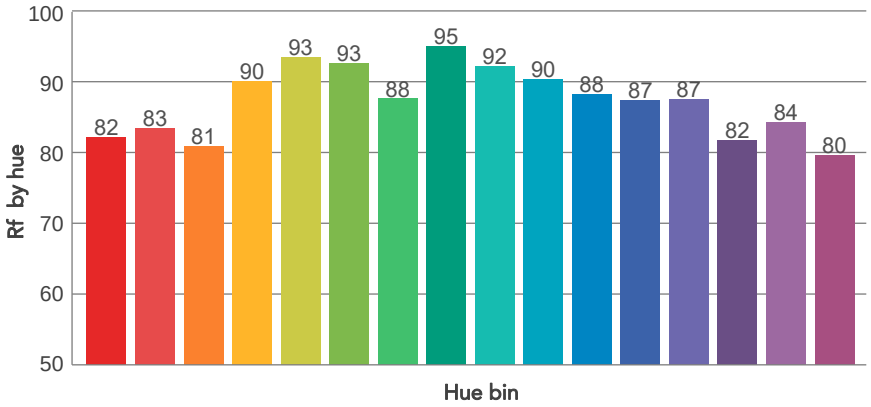
Fidelity index Rf

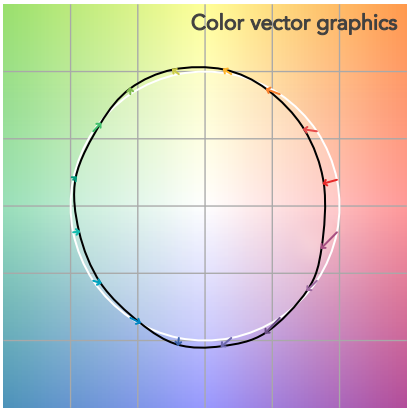
Rg 97,4

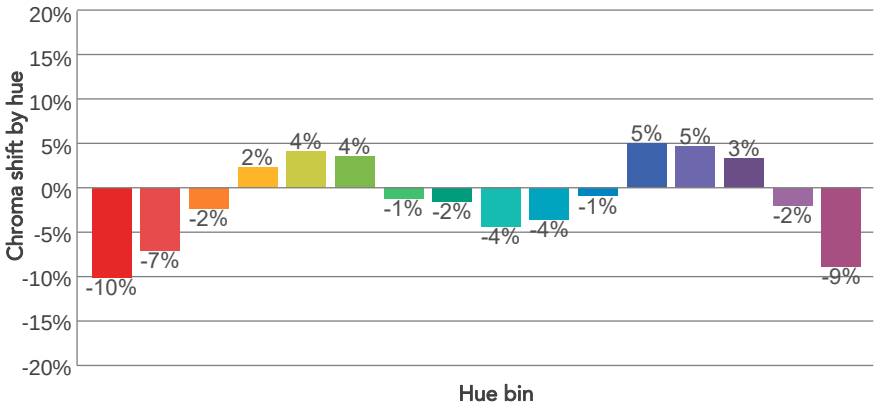
Gammut index

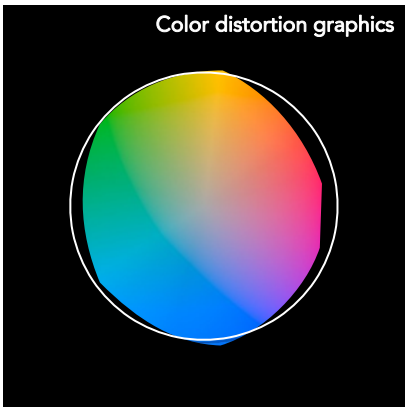
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	82	-10%	-1%
2	83	-7%	6%
3	81	-2%	10%
4	90	2%	6%
5	93	4%	4%
6	93	4%	-2%
7	88	-1%	-8%
8	95	-2%	-2%
9	92	-4%	0%
10	90	-4%	4%
11	88	-1%	8%
12	87	5%	0%
13	87	5%	-8%
14	82	3%	-15%
15	84	-2%	-10%
16	80	-9%	-14%

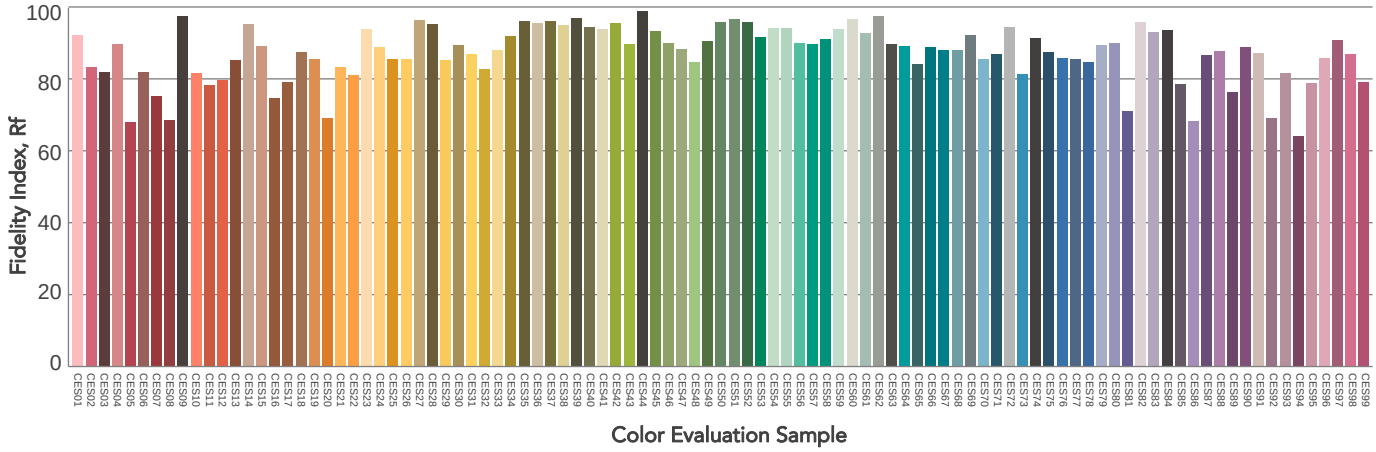












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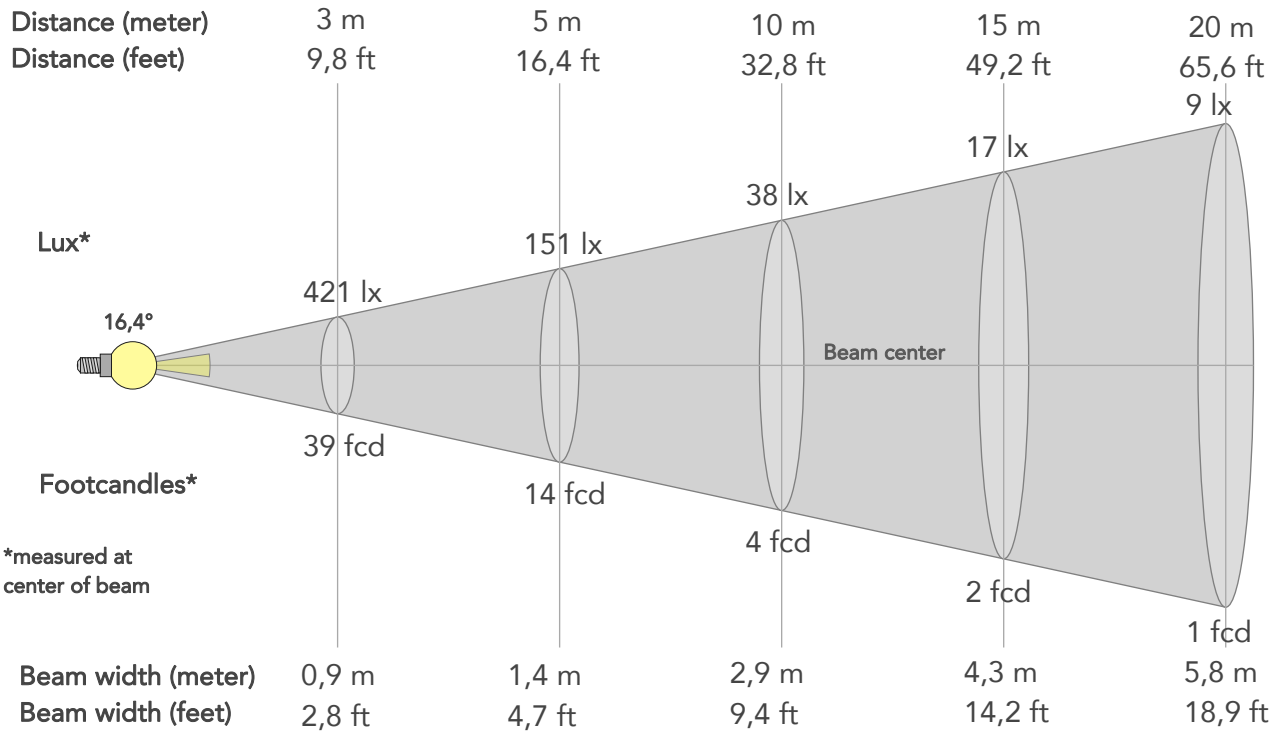
BEAM DETAILS

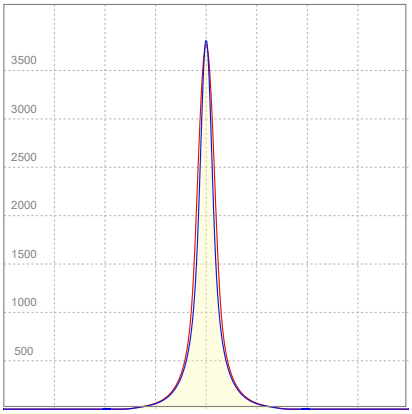
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,4°	42,5°	76,8°	98,6%	92,3%



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	3785lx	946lx	421lx	237lx	151lx	67lx	38lx	17lx	9lx	6lx	4lx	2lx	2lx
Footcand.	352fcd	88fcd	39fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,4m	2,2m	2,9m	4,3m	5,8m	7,2m	8,6m	11,5m	14,4m
Beam wid.	0,9ft	1,9ft	2,8ft	3,8ft	4,7ft	7,1ft	9,4ft	14,2ft	18,9ft	23,6ft	28,3ft	37,8ft	47,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,115A	22,4W	32lm/W

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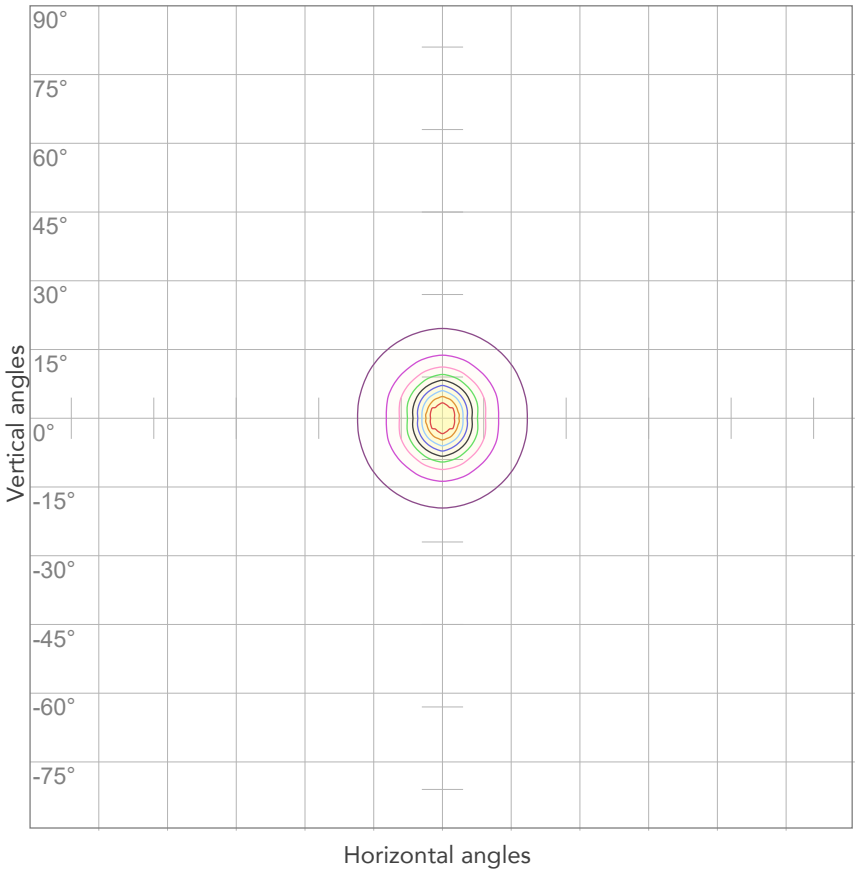
ISO DIAGRAMS

ISO CANDELA DIAGRAM



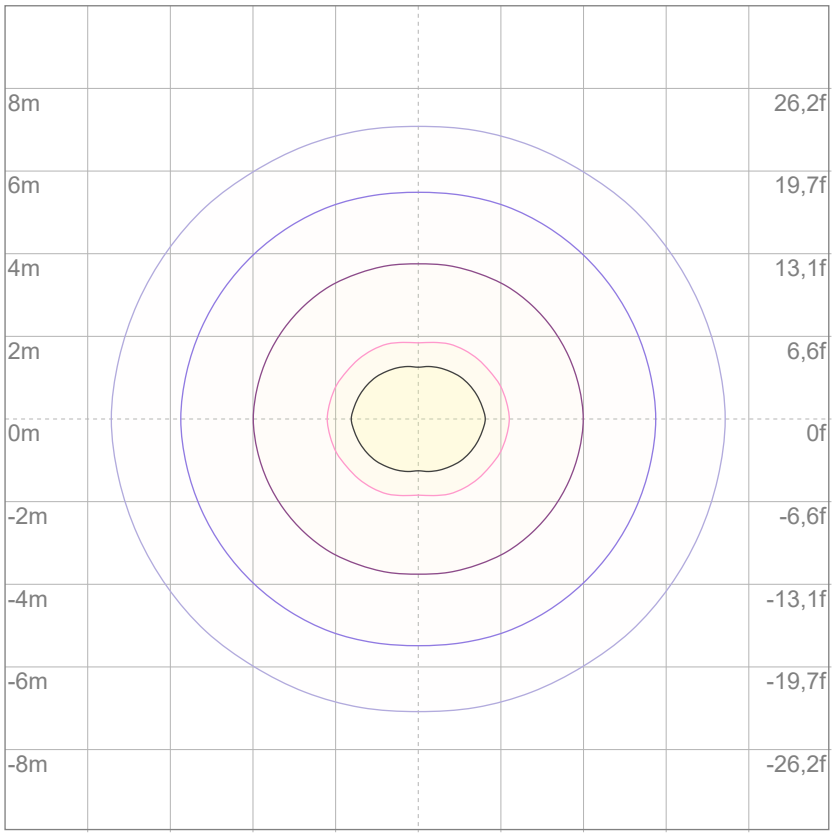
10%	378 cd
20%	757 cd
30%	1135 cd
40%	1514 cd
50%	1892 cd
60%	2271 cd
70%	2649 cd
80%	3028 cd

Conditions:

Number of c-planes: 4

Candela at center: 3785 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,14 lx
5%	1,89 lx
10%	3,78 lx
30%	11,4 lx
50%	18,9 lx

Conditions:

Number of c-planes: 4

Lux at center: 37,8 lx

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

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Total lumen output:

681 lm

Peak candela output:

1327 cd

Light quality:

CRI: 85,4

Color temperature:

2879 K

PRODUCT NAME:

ARCSHINES18FC

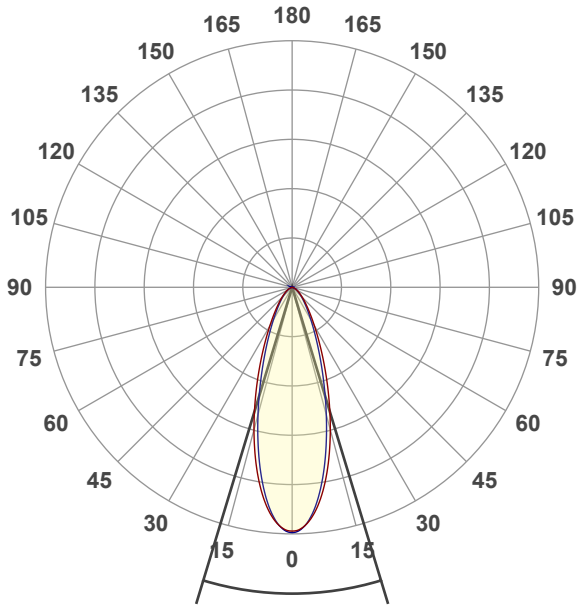
MEASURAMENT CONDITIONS:

Beam angle:
15°+20° Filter

Target:
White

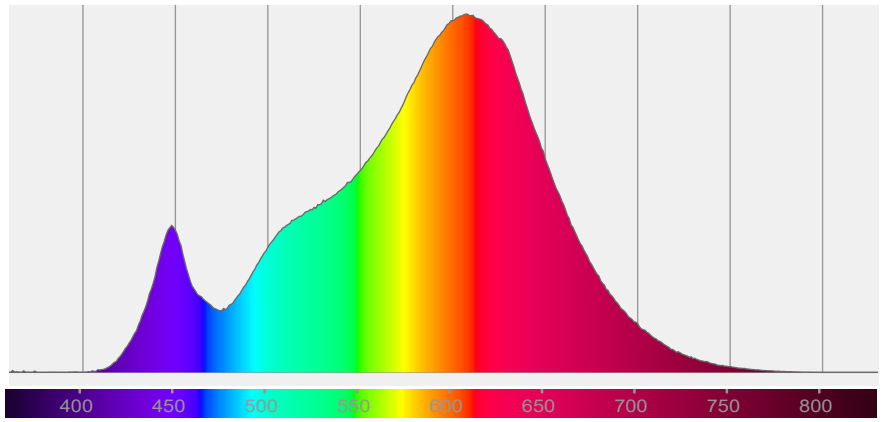
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:05:03

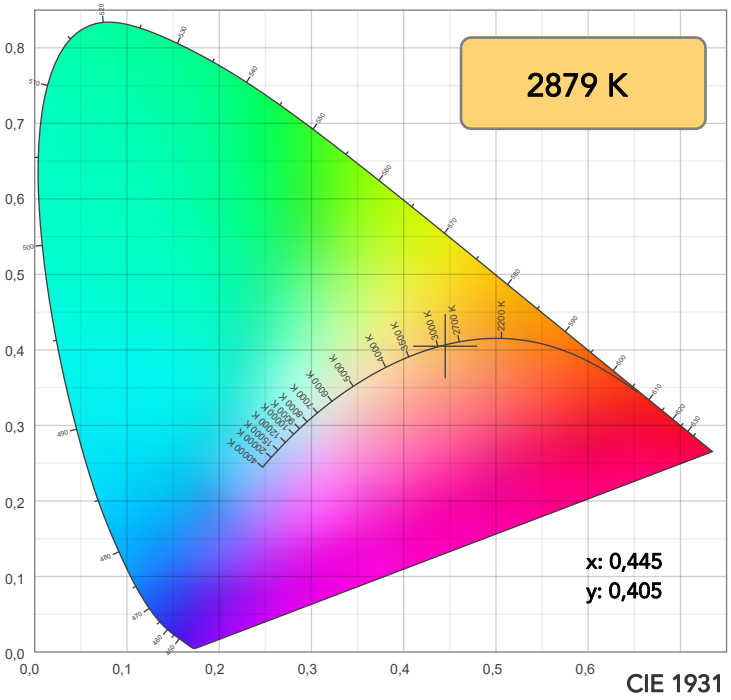


Beam angle 50%: 33,7°
Field angle 10%: 73,3°
Cut off angle 2.5%: 113,2°

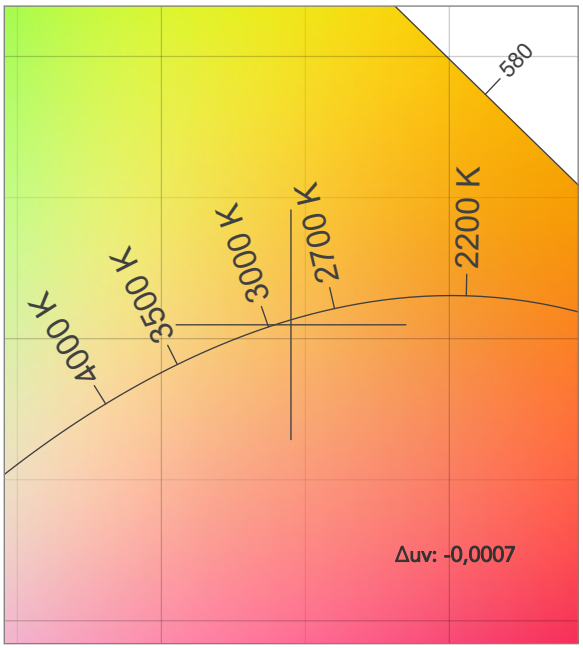
Spectra



COLOR DETAILS

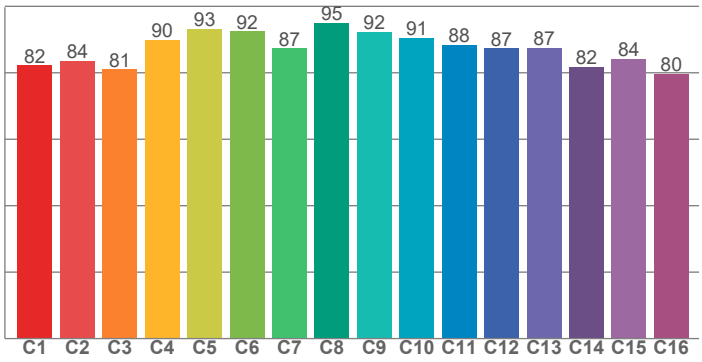


CIE 1931

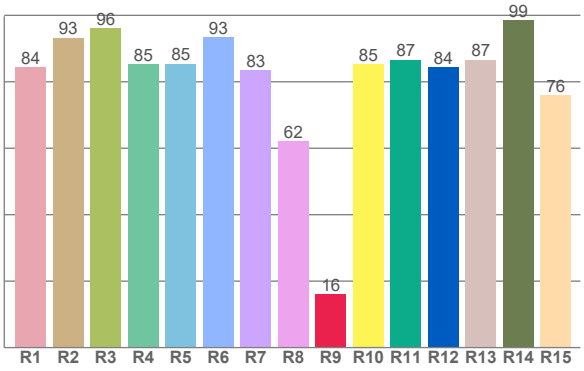


CIE 1931 ZOOM

TM30: 87,3



CRI: 85,4 (R1-R8)



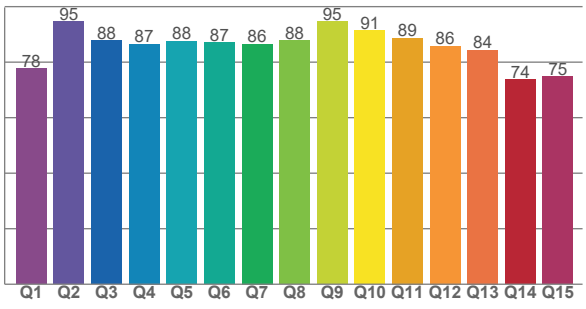
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,5	93,2	96,1	85,2	85,4	93,5	83,4	62,1	16,1	85,4	86,6	84,4	86,7	98,5	76,0

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,3	83,5	81,0	89,9	93,2	92,5	87,4	95,0	92,3	90,6	88,4	87,3	87,4	81,8	84,3	79,7

CQS: 84,5



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77,7	94,7	87,8	86,5	87,5	87,0	86,5	87,8	94,6	91,4	88,8	85,8	84,4	73,7	74,8

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2879 K	85,4	16,1	87,3	97,5	84,5	70	0,445	0,405	-0,0007

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TM30 DETAILS

PROLiGHTS

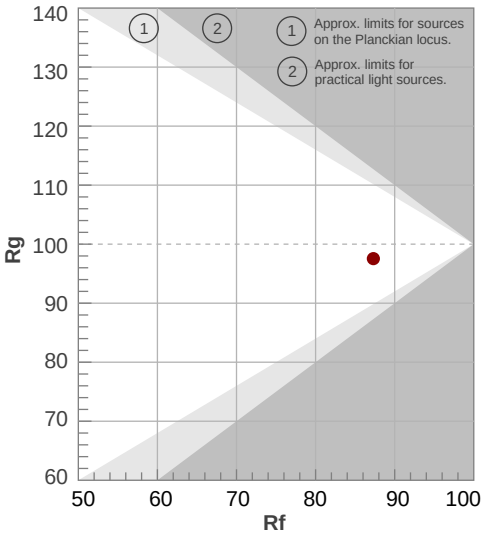
Rf 87,3

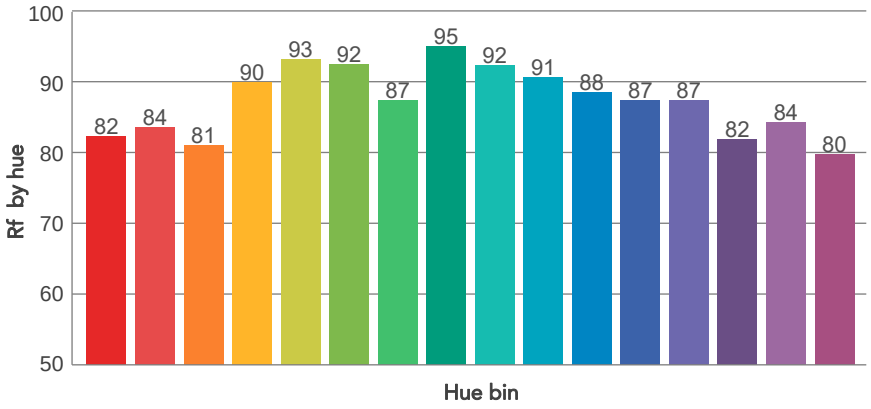
Fidelity index Rf

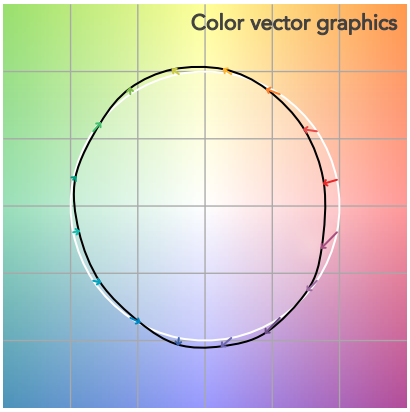
Rg 97,5

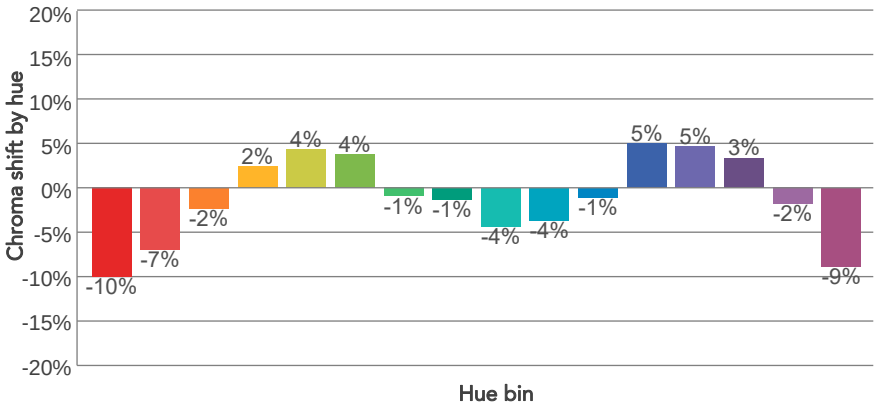
Gammut index

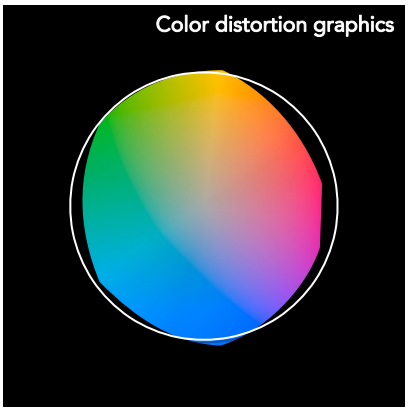
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	82	-10%	-1%
2	84	-7%	6%
3	81	-2%	10%
4	90	2%	6%
5	93	4%	4%
6	92	4%	-2%
7	87	-1%	-8%
8	95	-1%	-2%
9	92	-4%	0%
10	91	-4%	4%
11	88	-1%	7%
12	87	5%	0%
13	87	5%	-8%
14	82	3%	-15%
15	84	-2%	-10%
16	80	-9%	-14%

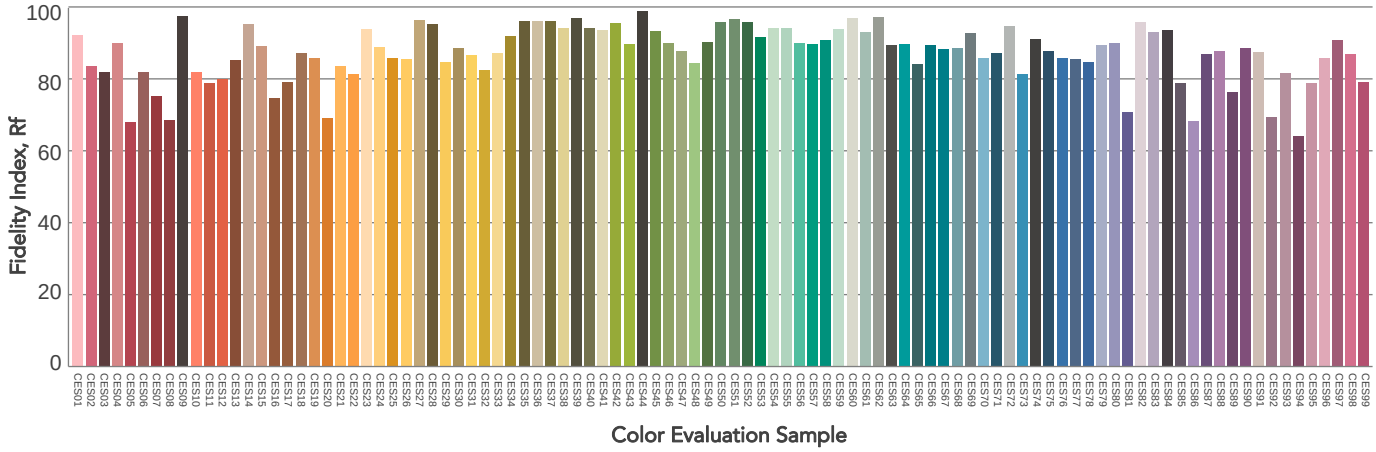












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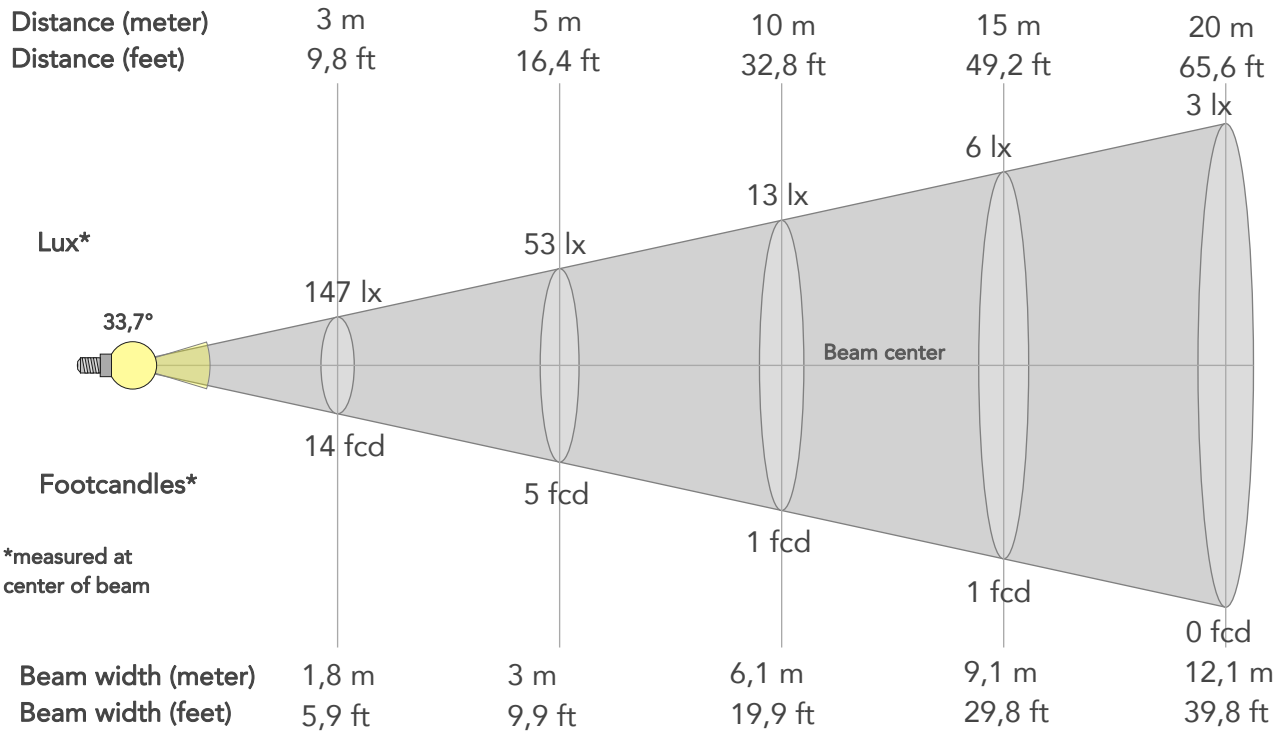
BEAM DETAILS

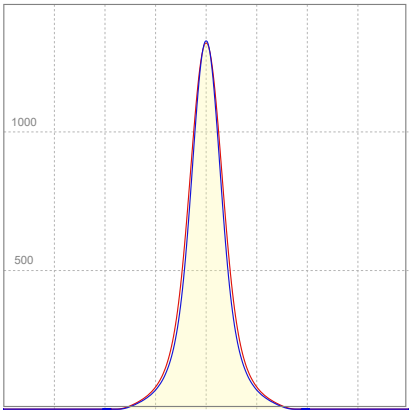
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
33,7°	73,3°	113,2°	97,5%	88,8%



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	1324lx	331lx	147lx	83lx	53lx	24lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	123fcd	31fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	3m	4,5m	6,1m	9,1m	12,1m	15,2m	18,2m	24,2m	30,3m
Beam wid.	2ft	4ft	5,9ft	7,9ft	9,9ft	14,9ft	19,9ft	29,8ft	39,8ft	49,7ft	59,7ft	79,5ft	99,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,116A	22,4W	30lm/W

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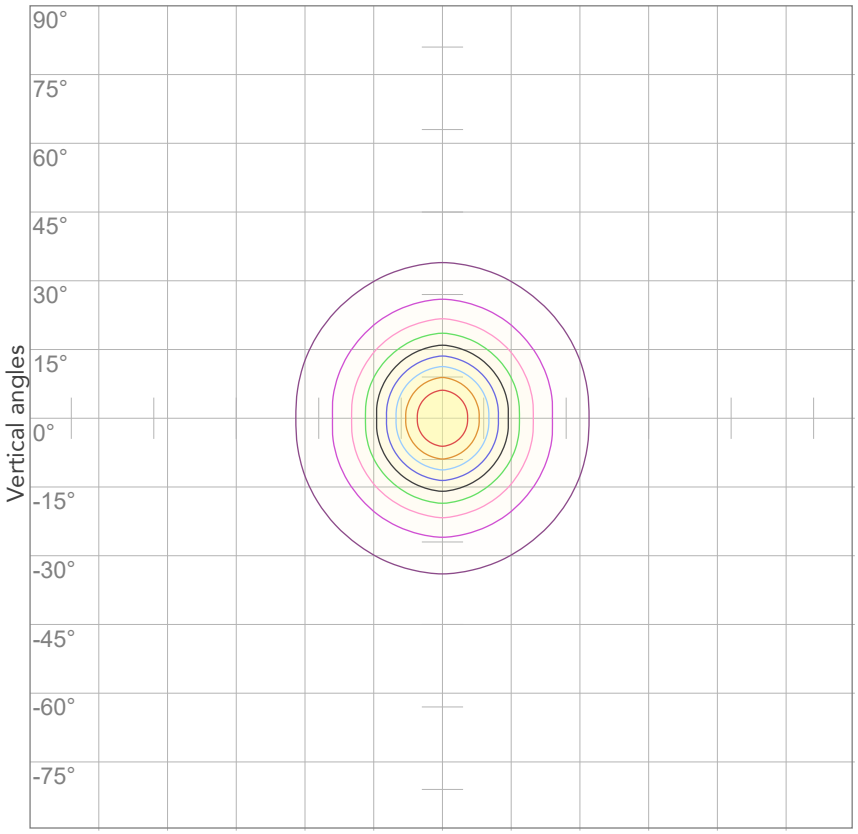
ISO DIAGRAMS

ISO CANDELA DIAGRAM



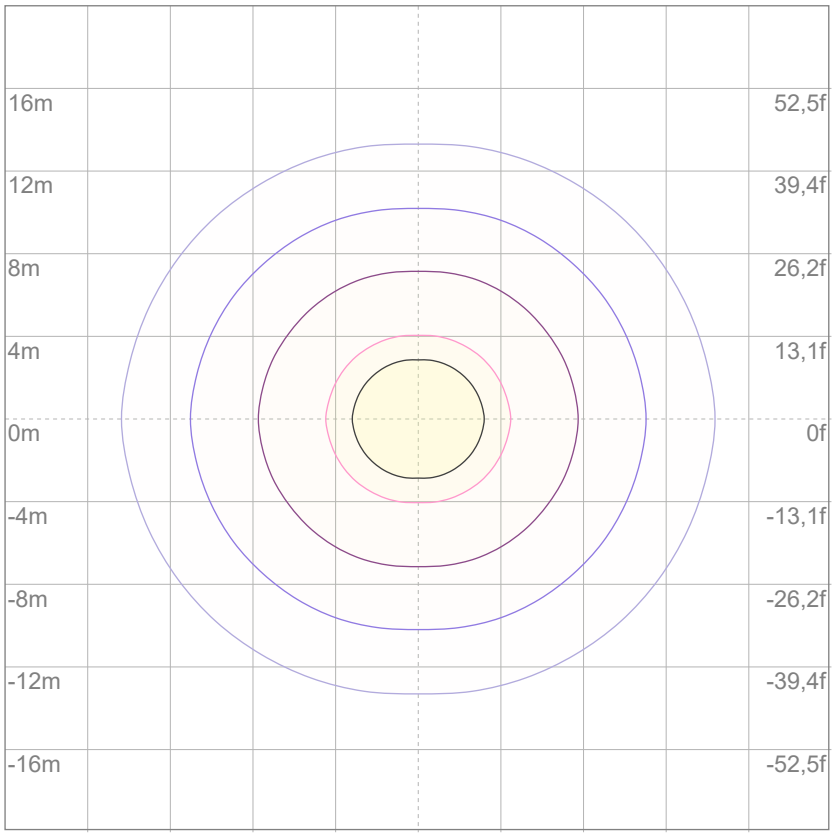
10%	132 cd
20%	265 cd
30%	397 cd
40%	529 cd
50%	662 cd
60%	794 cd
70%	926 cd
80%	1059 cd

Conditions:

Number of c-planes: 4

Candela at center: 1324 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,397 lx
5%	0,662 lx
10%	1,32 lx
30%	3,97 lx
50%	6,62 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.

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Total lumen output:

656 lm

Peak candela output:

409 cd

Light quality:

CRI: 85,8

Color temperature:

2915 K

PRODUCT NAME:

ARCSHINES18FC

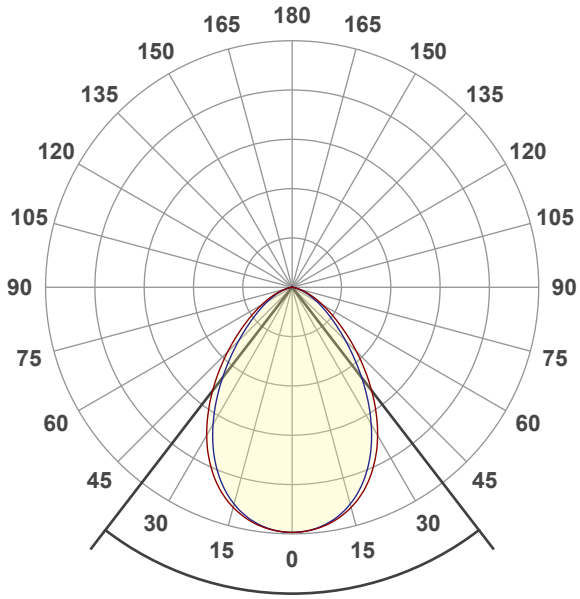
MEASURAMENT CONDITIONS:

Beam angle:
15°+60° Filter

Target:
White

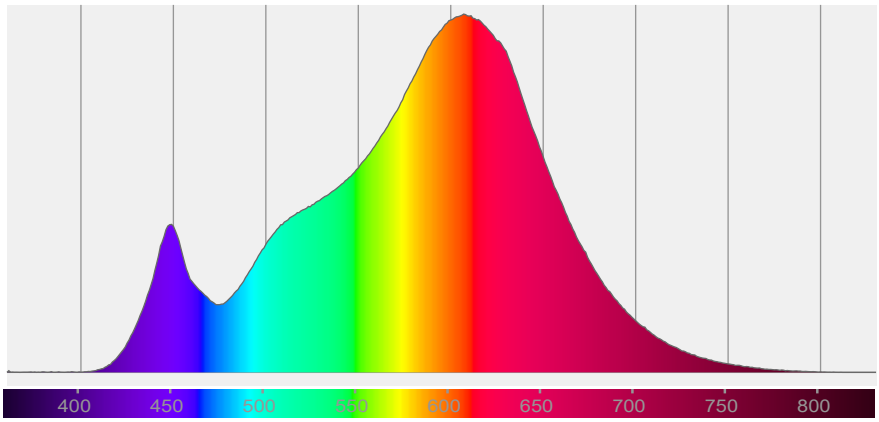
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:49:36



Beam angle 50%: 75,1°
Field angle 10%: 126,8°
Cut off angle 2.5%: 150,5°

Spectra



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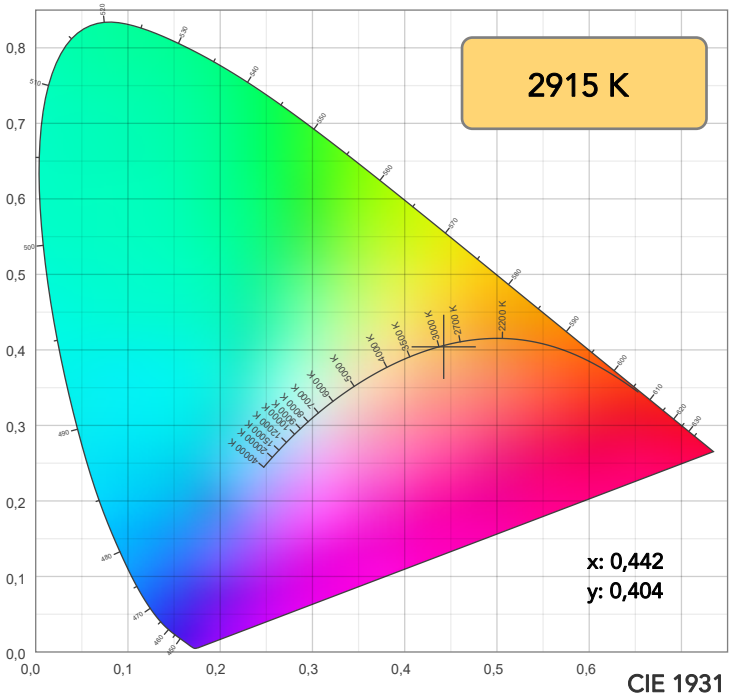
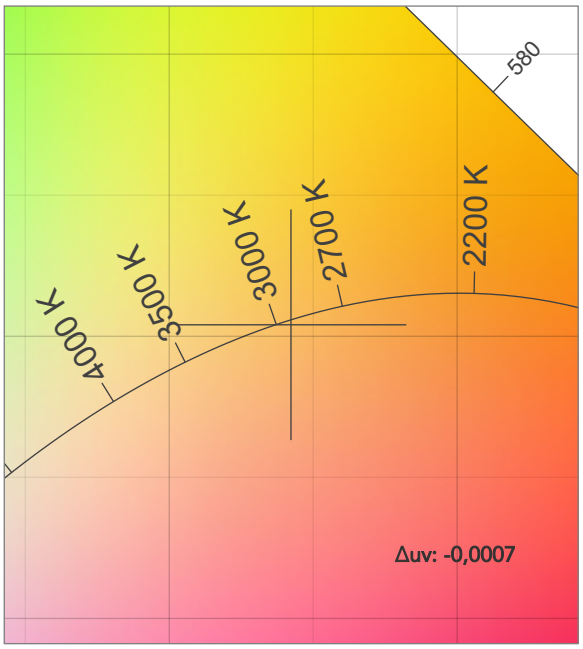
COLOR DETAILS

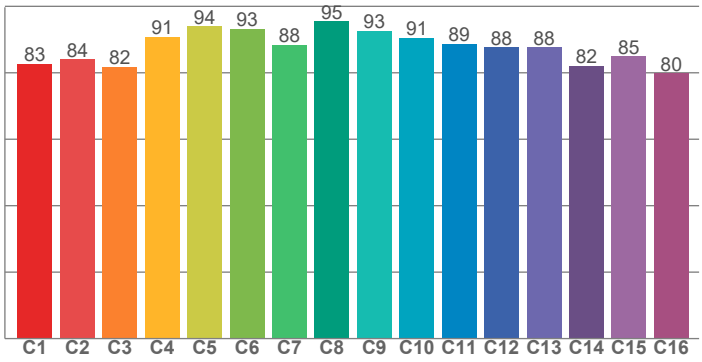


CIE 1931

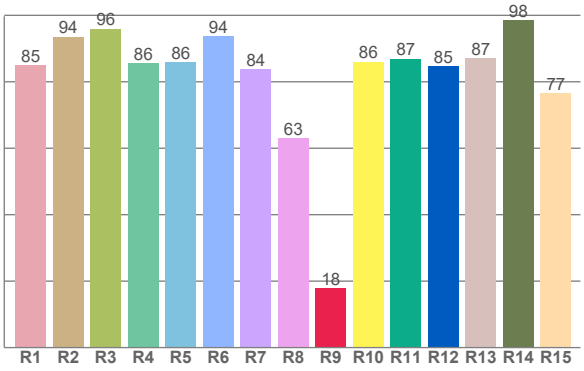


CIE 1931 ZOOM

TM30: 87,8



CRI: 85,8 (R1-R8)



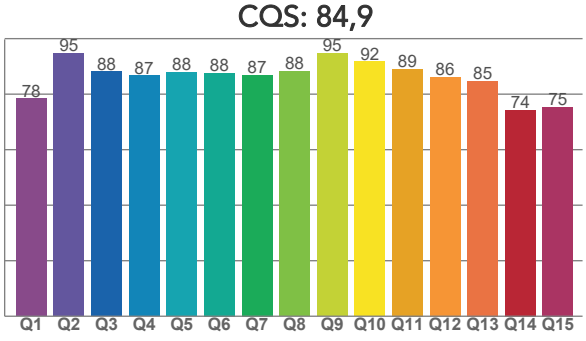
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,9	93,6	96,0	85,5	85,9	93,8	83,7	63,0	17,8	86,1	86,9	84,6	87,2	98,4	76,6

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,7	84,0	81,8	90,7	94,0	93,1	88,4	95,4	92,6	90,6	88,6	87,7	87,7	82,1	84,9	79,9

CQS: 84,9



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,4	94,7	88,1	86,7	87,9	87,6	87,0	88,2	94,7	91,7	89,1	86,2	84,7	74,2	75,4

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2915 K	85,8	17,8	87,8	97,4	84,9	72	0,442	0,404	-0,0007

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TM30 DETAILS

PROLiGHTS

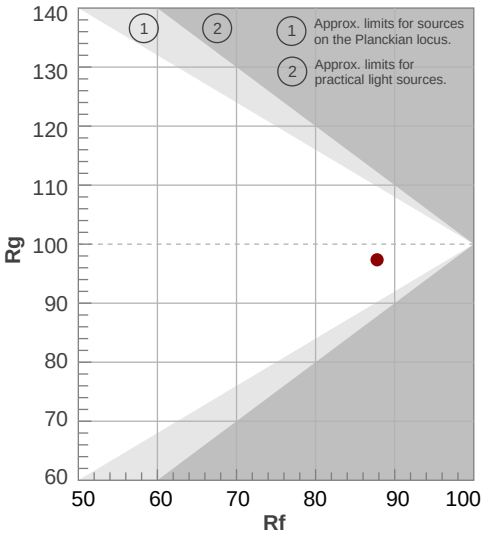
Rf 87,8

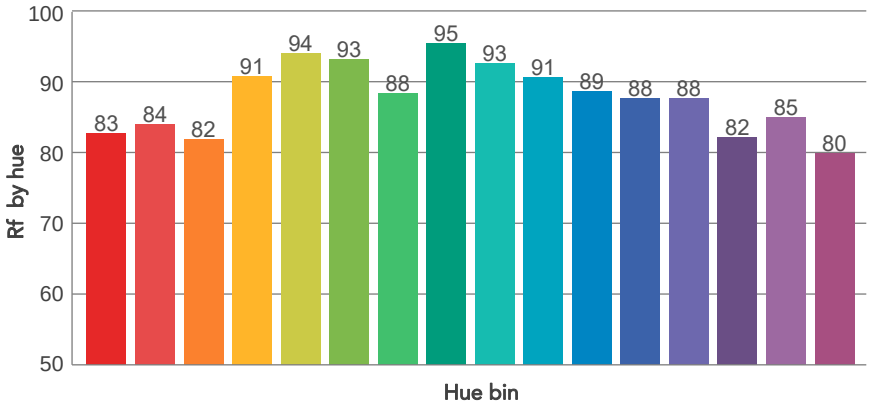
Fidelity index Rf

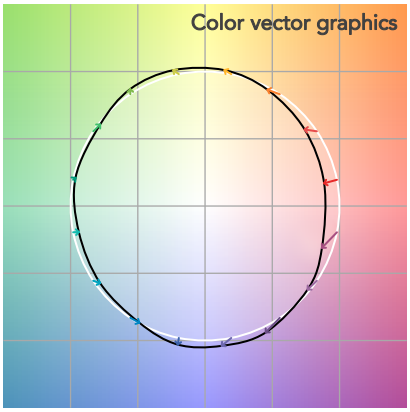
Rg 97,4

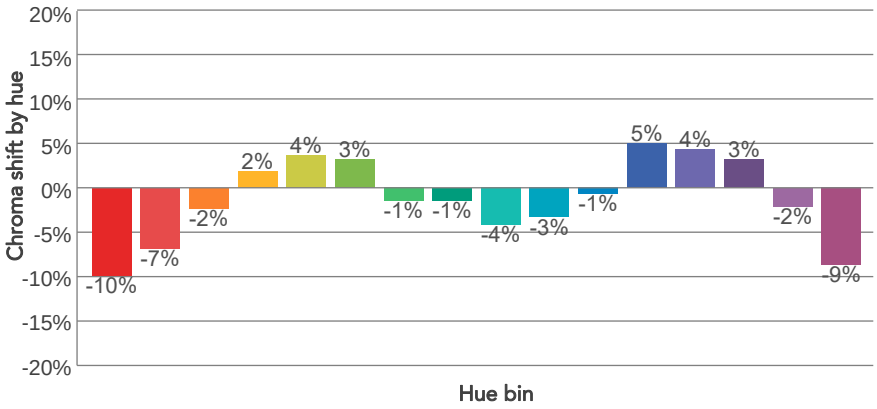
Gammut index

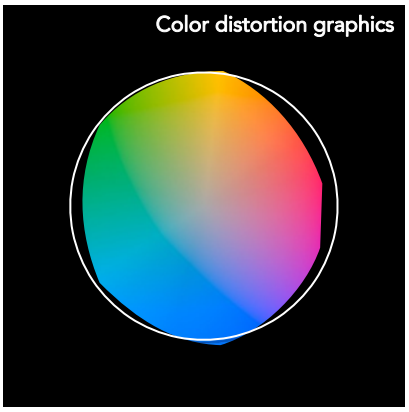
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	83	-10%	-1%
2	84	-7%	6%
3	82	-2%	9%
4	91	2%	6%
5	94	4%	3%
6	93	3%	-2%
7	88	-1%	-7%
8	95	-1%	-2%
9	93	-4%	1%
10	91	-3%	4%
11	89	-1%	8%
12	88	5%	0%
13	88	4%	-8%
14	82	3%	-15%
15	85	-2%	-9%
16	80	-9%	-14%

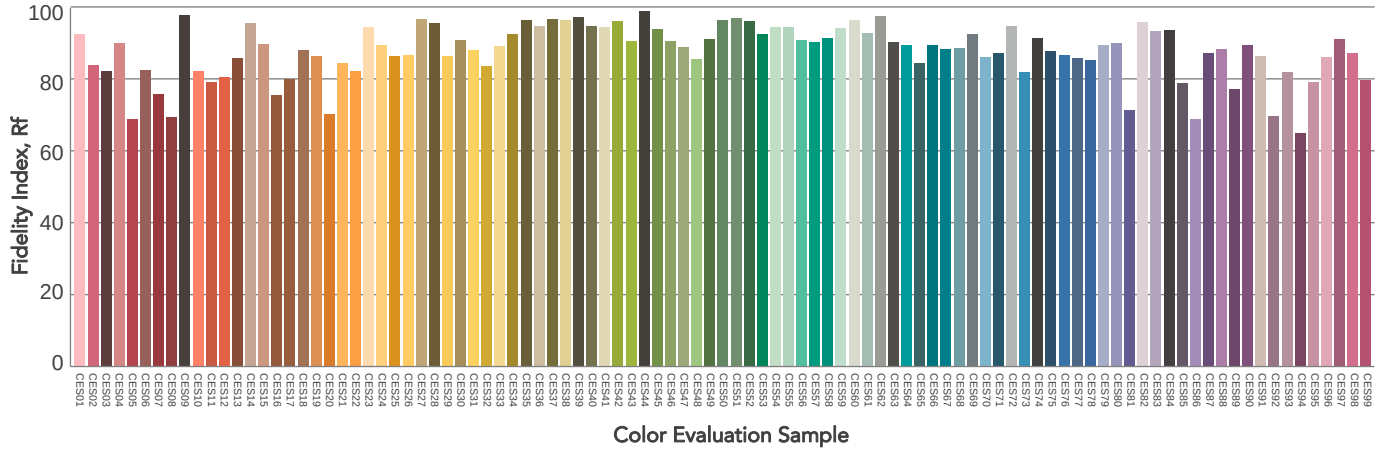












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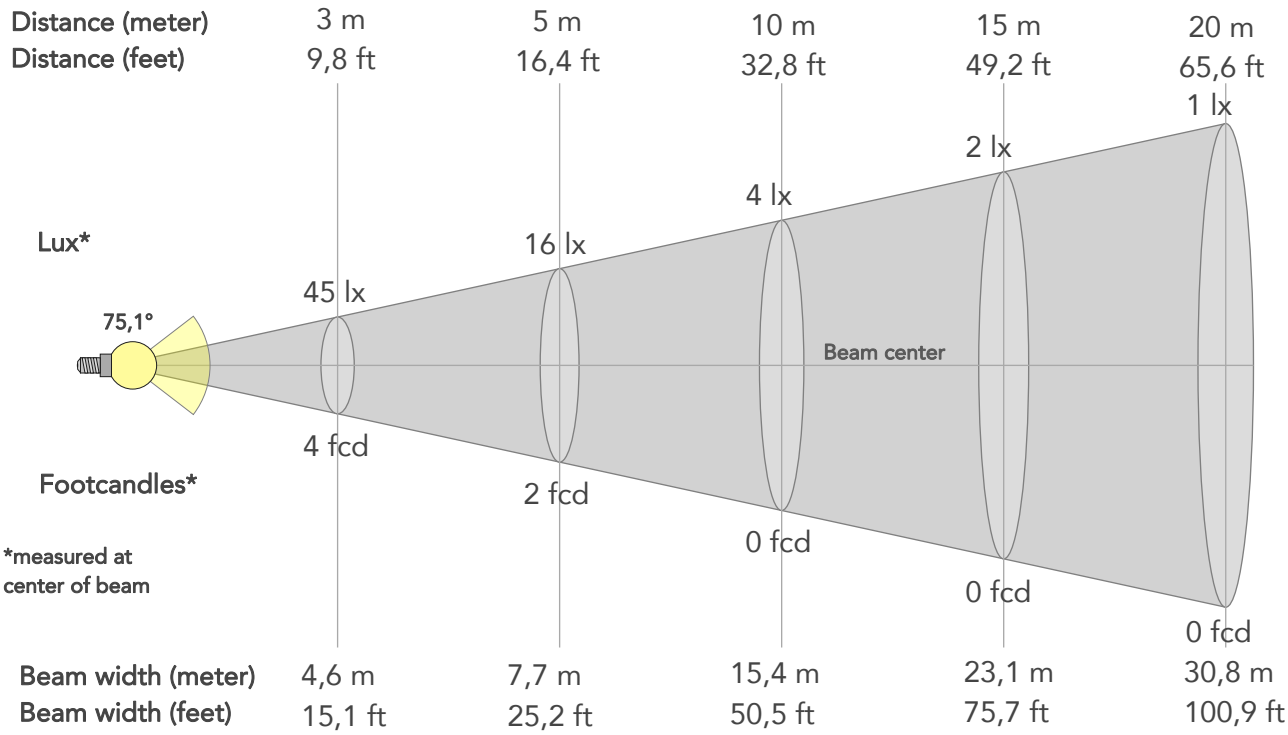
BEAM DETAILS

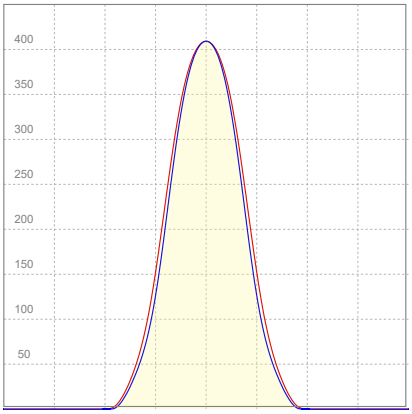
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
75,1°	126,8°	150,5°	92,5%	74,8%



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	409lx	102lx	45lx	26lx	16lx	7lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	38fcd	10fcd	4fcd	2fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3,1m	4,6m	6,2m	7,7m	11,5m	15,4m	23,1m	30,8m	38,5m	46,2m	61,6m	76,9m
Beam wid.	5,1ft	10,2ft	15,1ft	20,2ft	25,2ft	37,9ft	50,5ft	75,7ft	100,9ft	126,2ft	151,4ft	201,9ft	252,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,227A	21,6W	30lm/W

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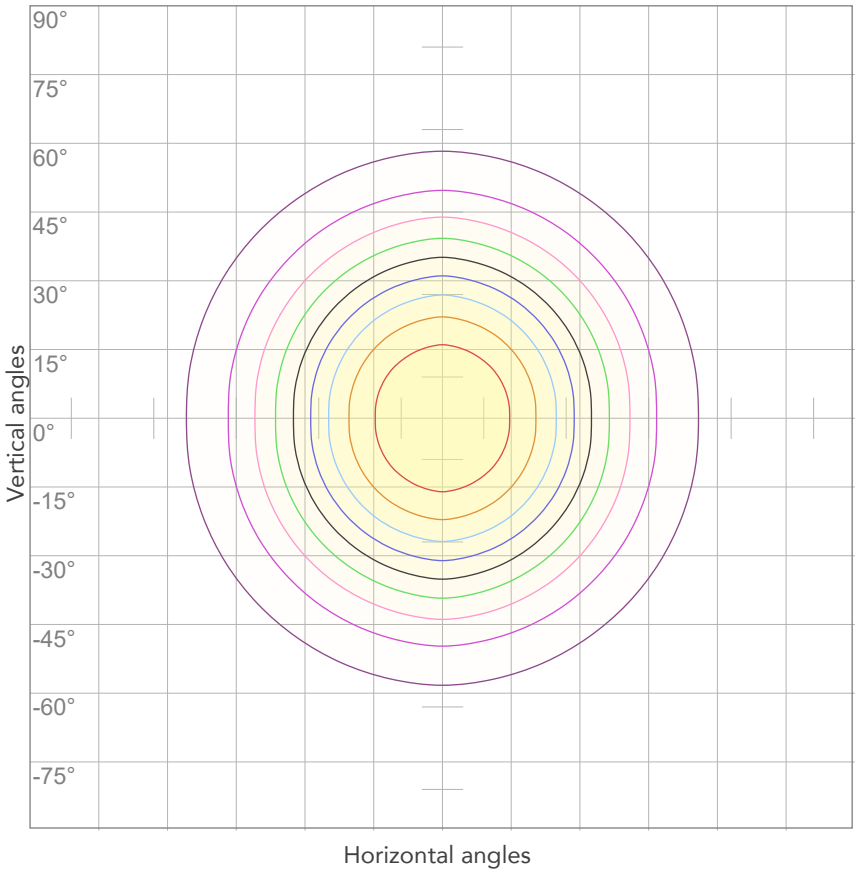
ISO DIAGRAMS

ISO CANDELA DIAGRAM



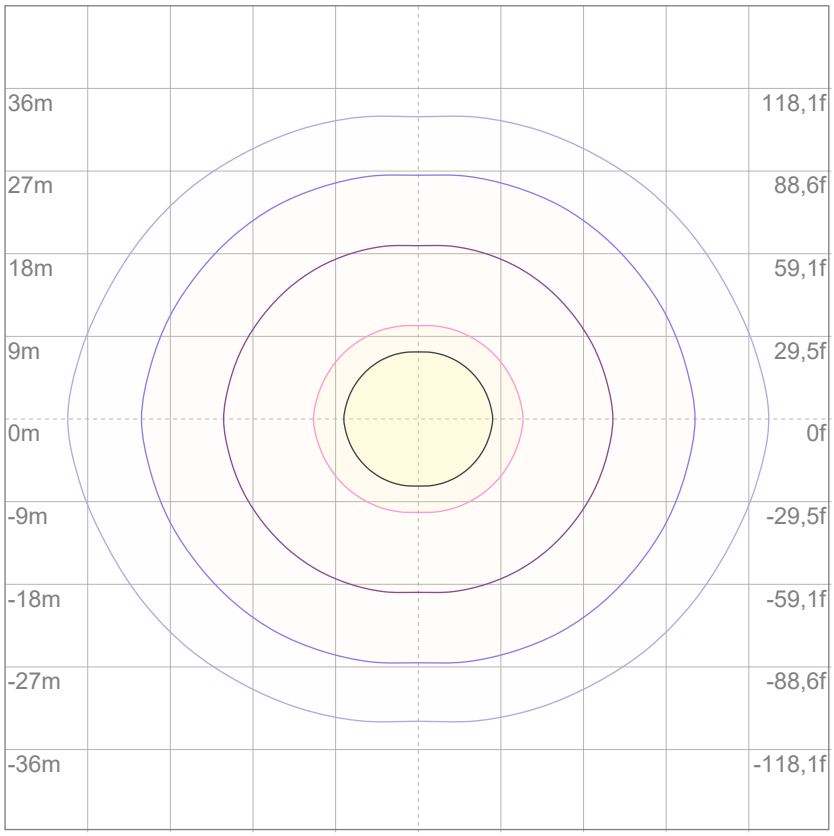
10%	41 cd
20%	82 cd
30%	123 cd
40%	164 cd
50%	205 cd
60%	245 cd
70%	286 cd
80%	327 cd

Conditions:

Number of c-planes: 4

Candela at center: 409 cd

ISO LUX DIAGRAM



3%	0,123 lx
5%	0,205 lx
10%	0,409 lx
30%	1,23 lx
50%	2,05 lx

Conditions:

Number of c-planes: 4

Lux at center: 4,09 lx

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

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Total lumen output:

869 lm

Peak candela output:

827 cd

Light quality:

CRI: 85,8

Color temperature:

2906 K

PRODUCT NAME:

ARCSHINES18FC

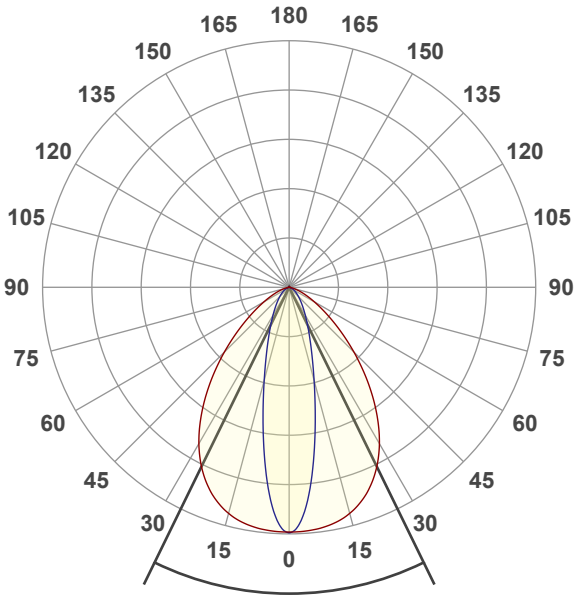
MEASURAMENT CONDITIONS:

Beam angle:
15°+10°x60° Filter

Target:
White

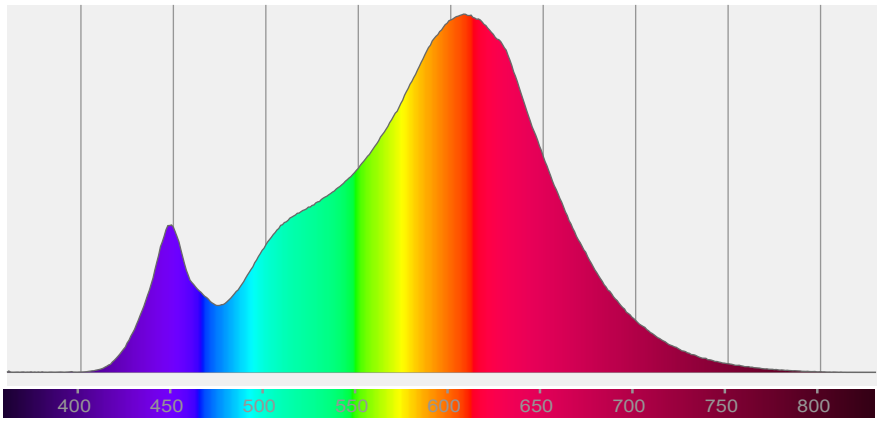
Operator:
Paolo Carvone

Date and time:
30/03/2022 12:25:34

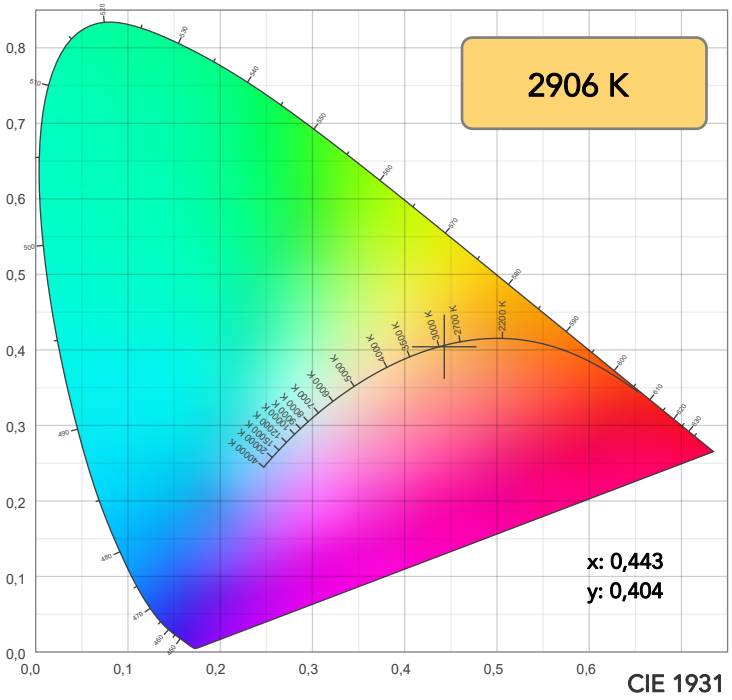


Beam angle 50%: 52,1°
Field angle 10%: 96,4°
Cut off angle 2.5%: 131,7°

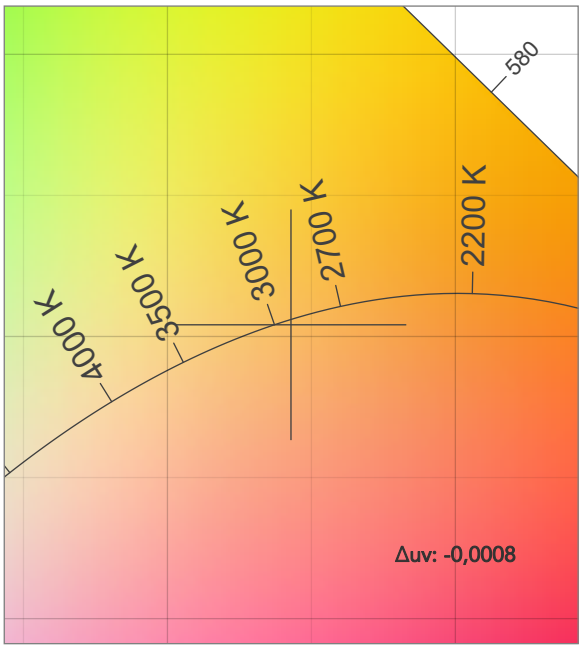
Spectra



COLOR DETAILS

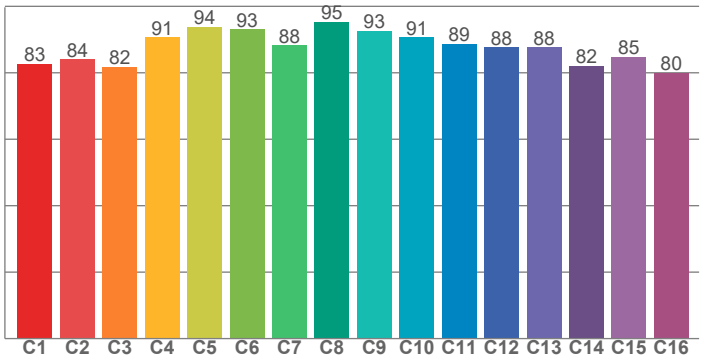


CIE 1931

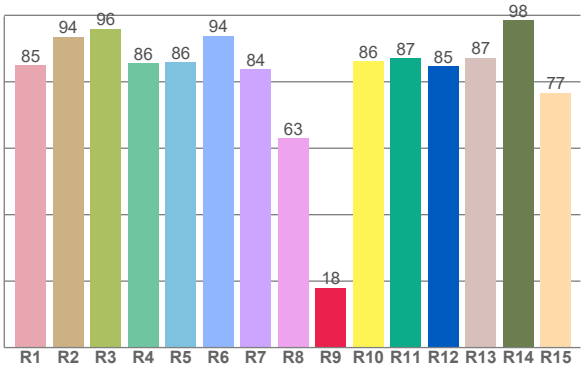


CIE 1931 ZOOM

TM30: 87,8



CRI: 85,8 (R1-R8)



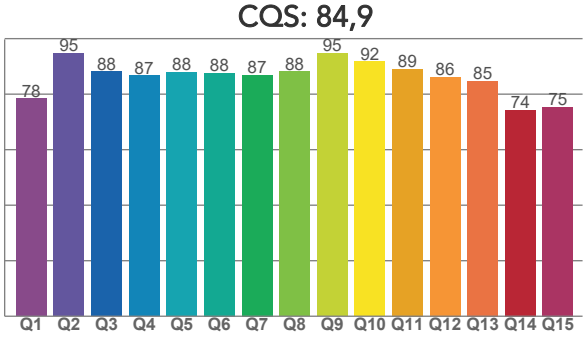
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
85,0	93,6	96,0	85,6	86,0	93,8	83,7	63,0	18,0	86,1	87,0	84,8	87,2	98,5	76,7

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
82,7	84,0	81,8	90,6	93,8	93,0	88,3	95,4	92,6	90,7	88,7	87,7	87,7	82,1	84,9	79,9

CQS: 84,9



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,4	94,7	88,1	86,7	87,9	87,6	87,0	88,2	94,7	91,7	89,1	86,1	84,7	74,3	75,5

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2906 K	85,8	18,0	87,8	97,4	84,9	72	0,443	0,404	-0,0008

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TM30 DETAILS

PROLiGHTS

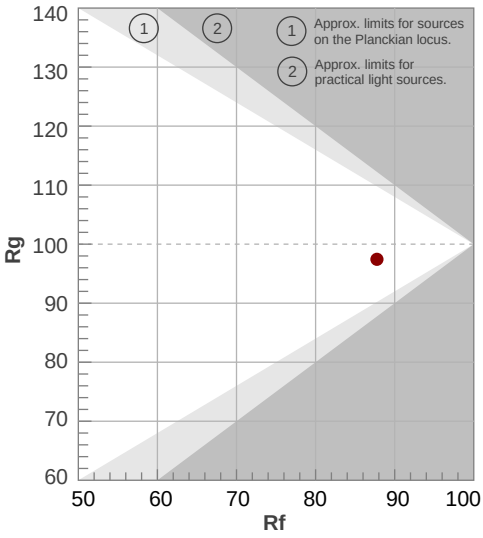
Rf 87,8

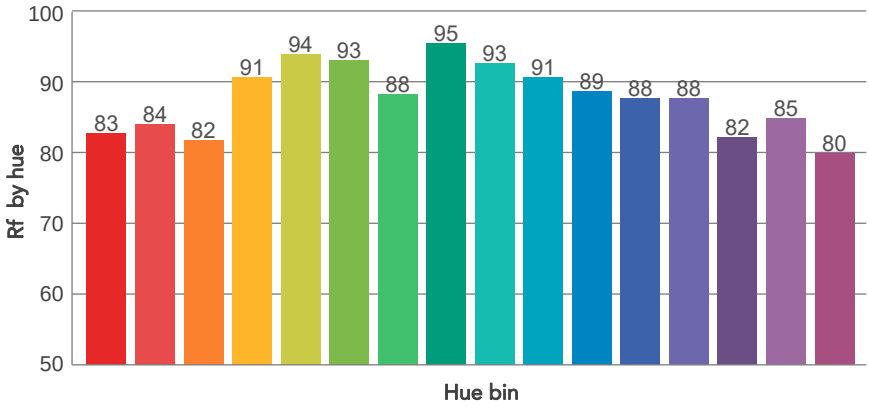
Fidelity index Rf

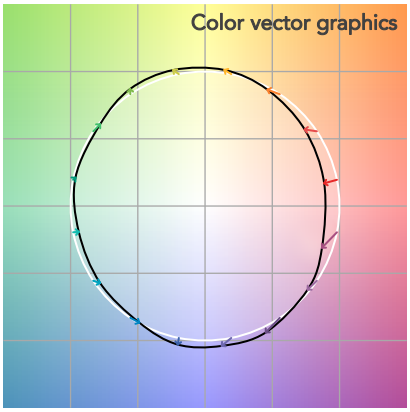
Rg 97,4

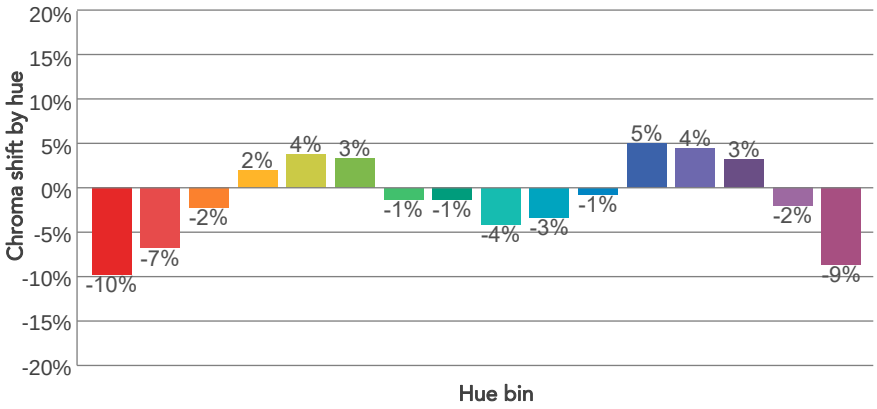
Gammut index

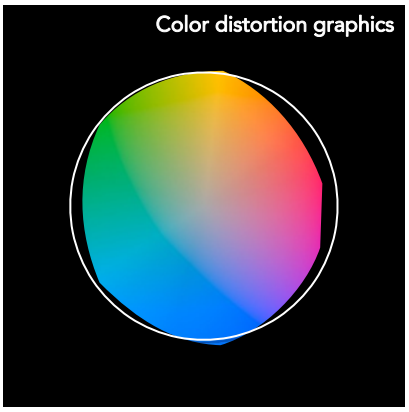
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	83	-10%	-1%
2	84	-7%	6%
3	82	-2%	9%
4	91	2%	6%
5	94	4%	3%
6	93	3%	-2%
7	88	-1%	-7%
8	95	-1%	-2%
9	93	-4%	0%
10	91	-3%	4%
11	89	-1%	7%
12	88	5%	0%
13	88	4%	-8%
14	82	3%	-15%
15	85	-2%	-9%
16	80	-9%	-13%

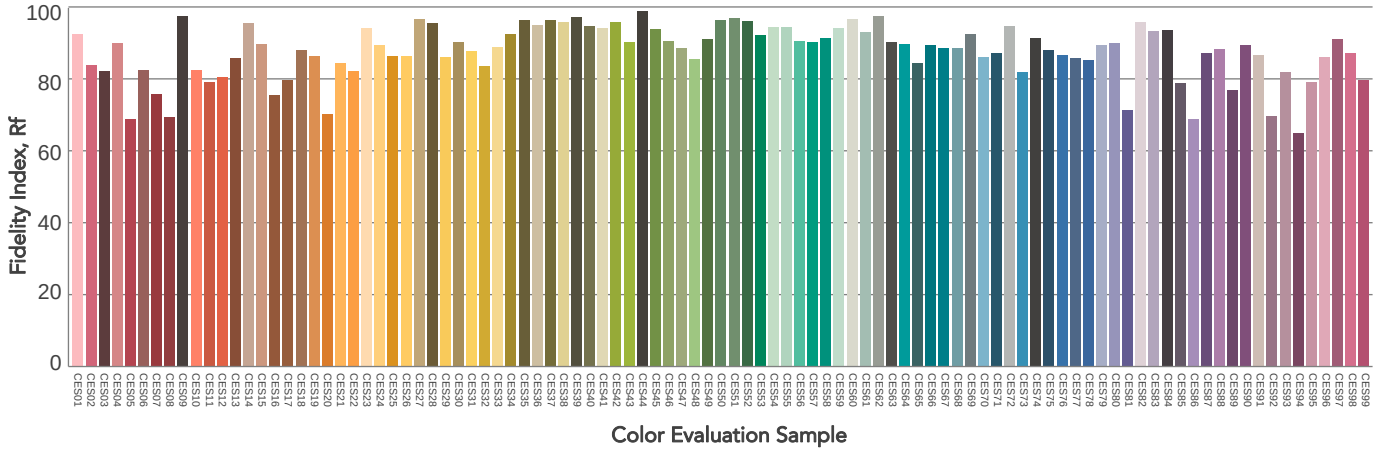












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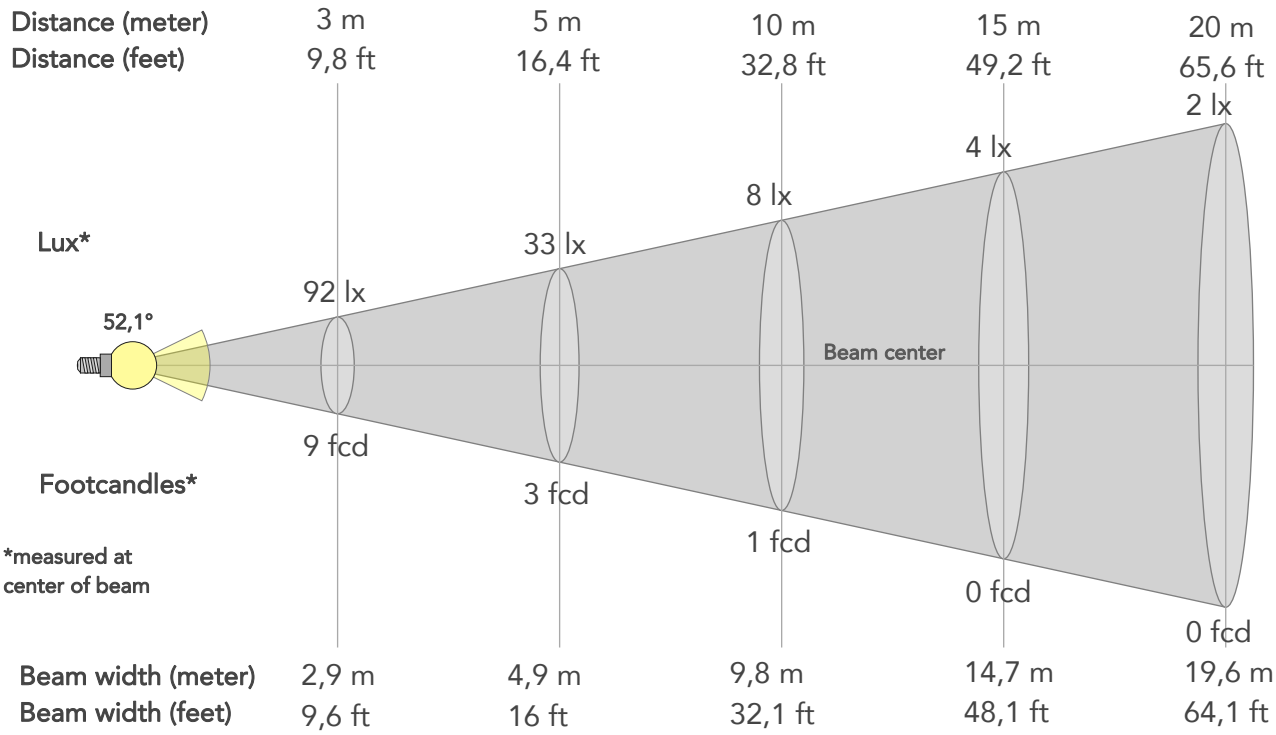
BEAM DETAILS

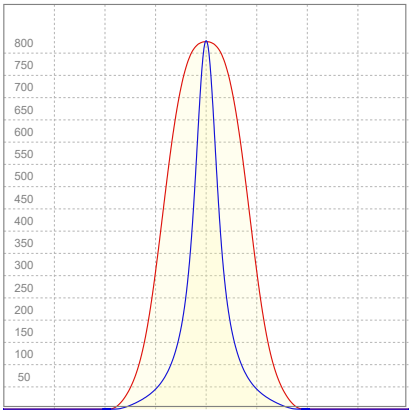
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,1°	96,4°	131,7°	94,4%	78,3%



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	826lx	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.	1m	2m	2,9m	3,9m	4,9m	7,3m	9,8m	14,7m	19,6m	24,4m	29,3m	39,1m	48,9m
Beam wid.	3,2ft	6,5ft	9,6ft	12,8ft	16ft	24,1ft	32,1ft	48,1ft	64,1ft	80,2ft	96,2ft	128,3ft	160,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,116A	22,3W	39lm/W

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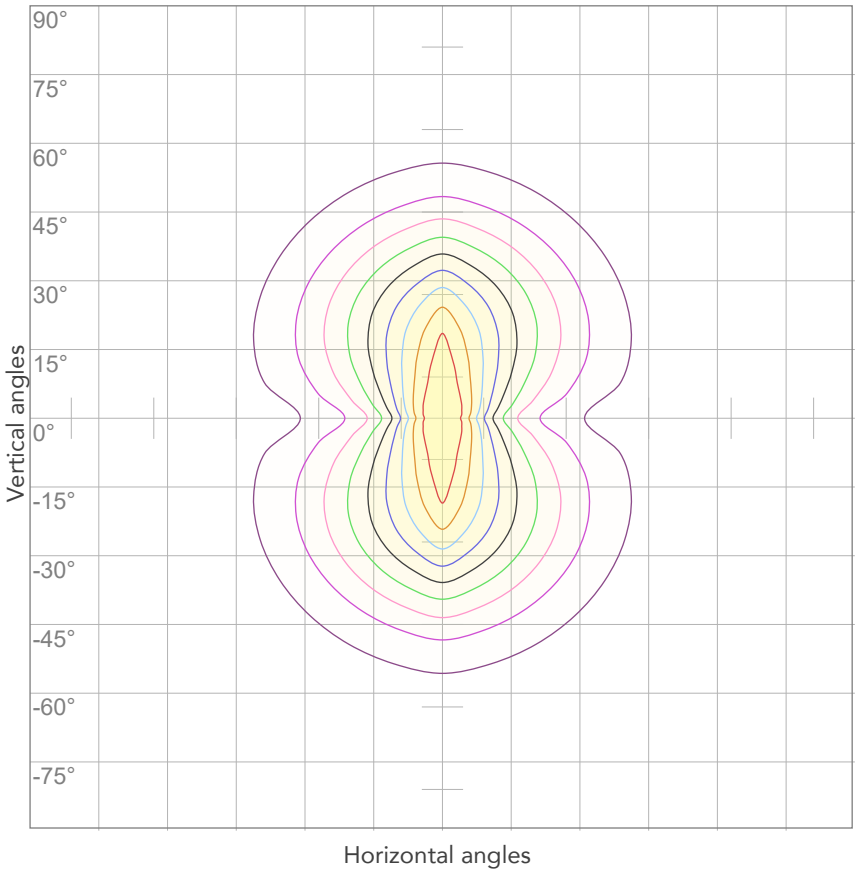
ISO DIAGRAMS

ISO CANDELA DIAGRAM



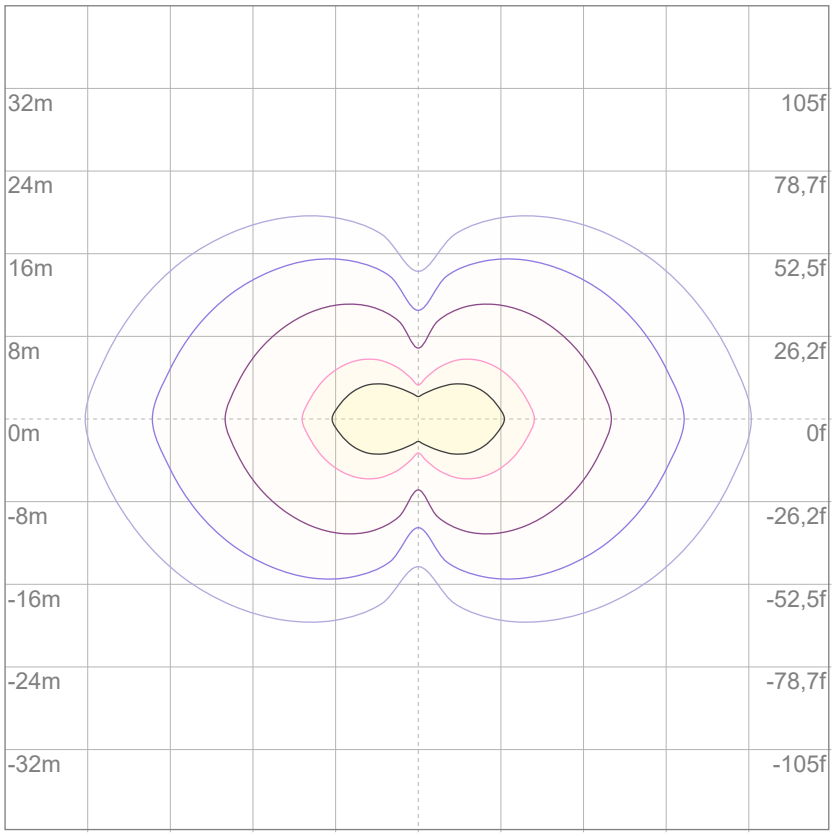
10%	83 cd
20%	165 cd
30%	248 cd
40%	330 cd
50%	413 cd
60%	496 cd
70%	578 cd
80%	661 cd

Conditions:

Number of c-planes: 4

Candela at center: 826 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,248 lx
5%	0,413 lx
10%	0,826 lx
30%	2,48 lx
50%	4,13 lx

Conditions:

Number of c-planes: 4

Lux at center: 8,26 lx

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

Total lumen output:

706 lm

Peak candela output:

656 cd

Light quality:

CRI: 85,5

Color temperature:

2896 K

PRODUCT NAME:

ARCSHINES18FC

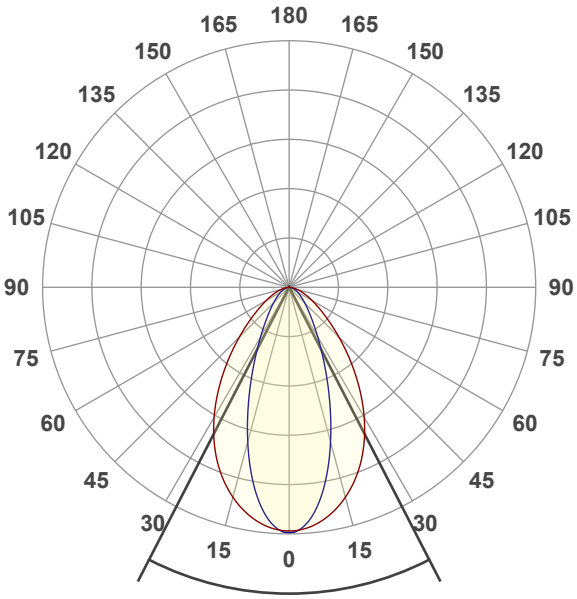
MEASURAMENT CONDITIONS:

Beam angle:
15°+30°x60° Filter

Target:
White

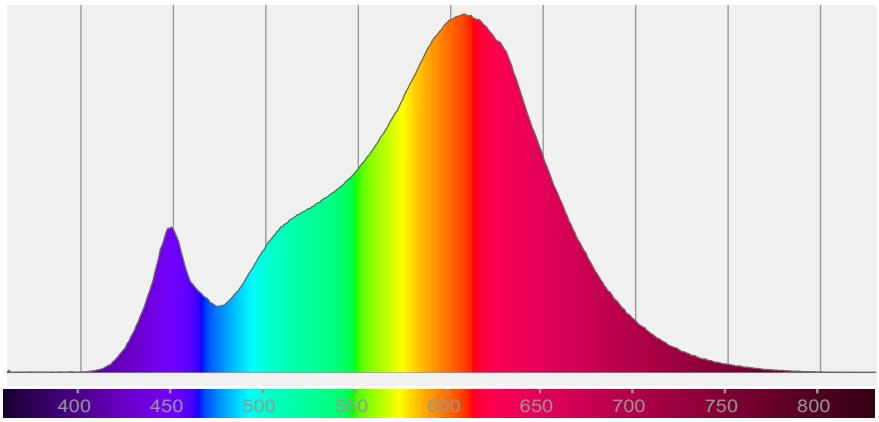
Operator:
Paolo Carvone

Date and time:
30/03/2022 13:13:49

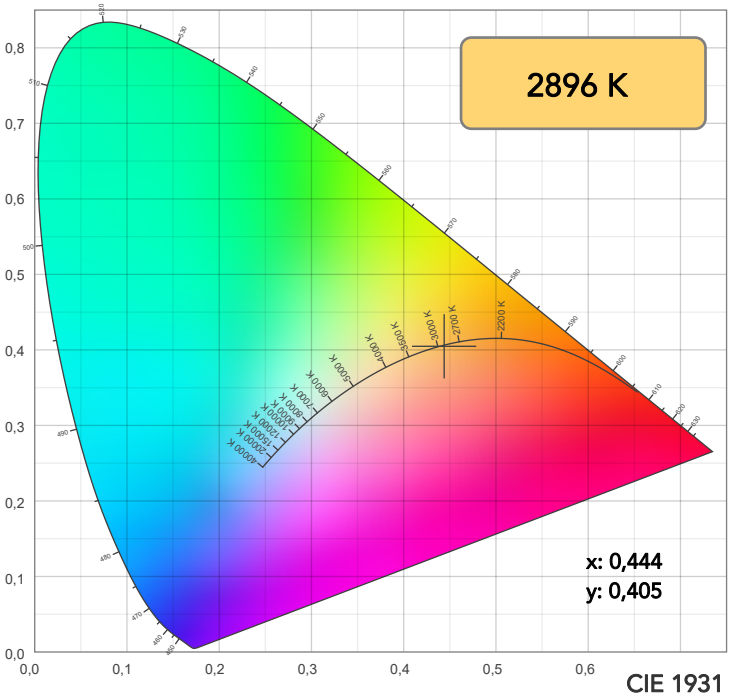


Beam angle 50%: 54,4°
Field angle 10%: 104,3°
Cut off angle 2.5%: 145,8°

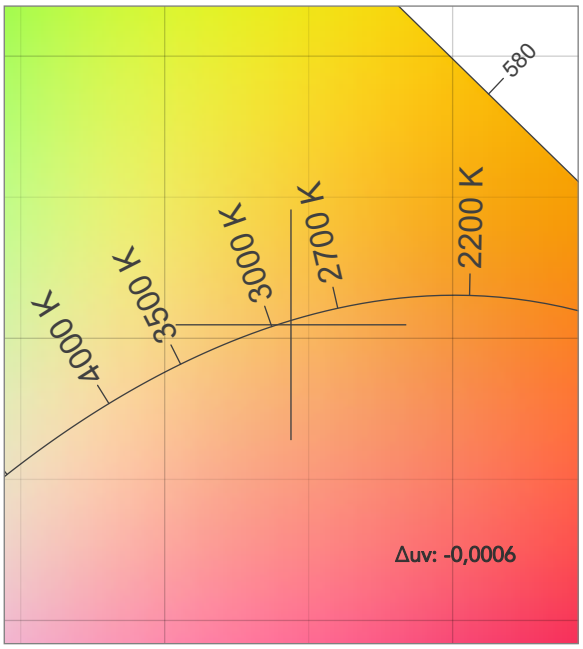
Spectra



COLOR DETAILS

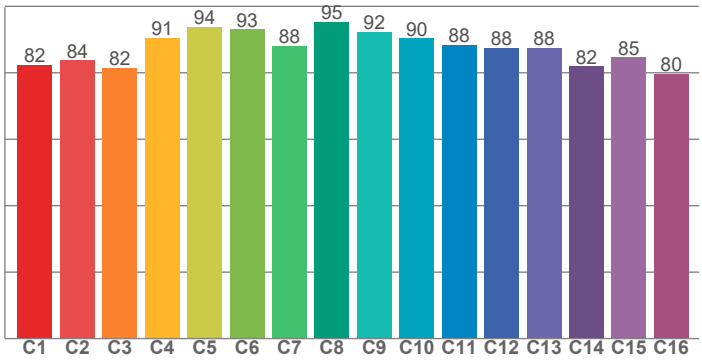


CIE 1931

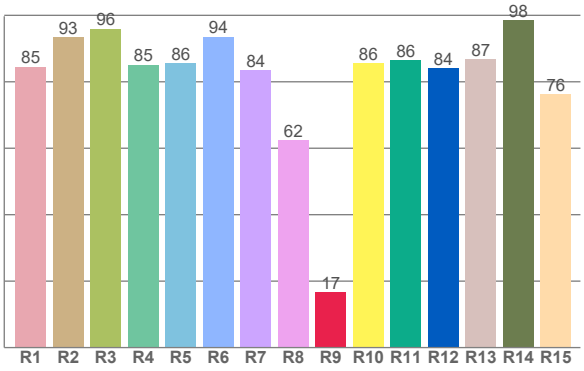


CIE 1931 ZOOM

TM30: 87,6



CRI: 85,5 (R1-R8)



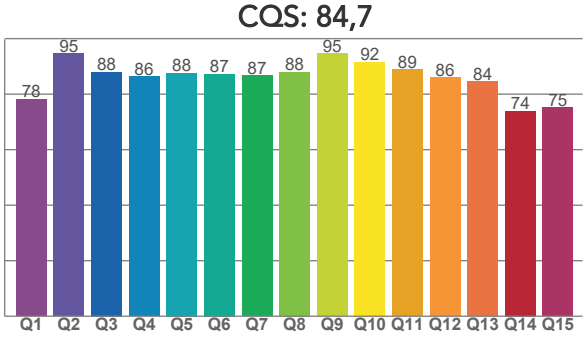
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,6	93,4	96,0	85,1	85,5	93,5	83,5	62,4	16,7	85,6	86,4	84,2	86,8	98,4	76,2

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,4	83,7	81,5	90,6	93,9	93,0	88,1	95,3	92,4	90,4	88,4	87,5	87,6	81,9	84,6	79,7

CQS: 84,7



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,1	94,6	87,9	86,4	87,5	87,3	86,7	88,0	94,7	91,6	88,9	85,9	84,5	73,9	75,1

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2896 K	85,5	16,7	87,6	97,2	84,7	71	0,444	0,405	-0,0006

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TM30 DETAILS

PROLiGHTS

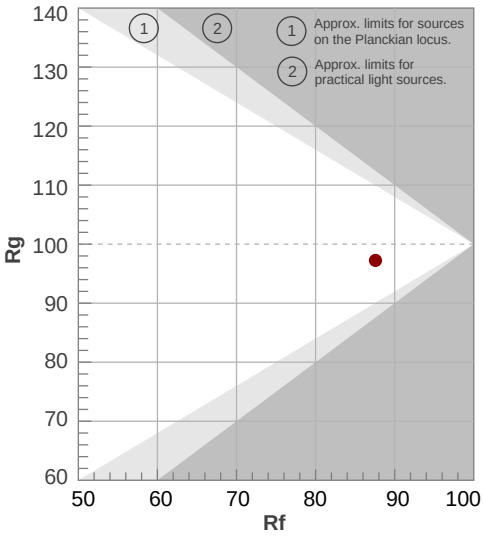
Rf 87,6

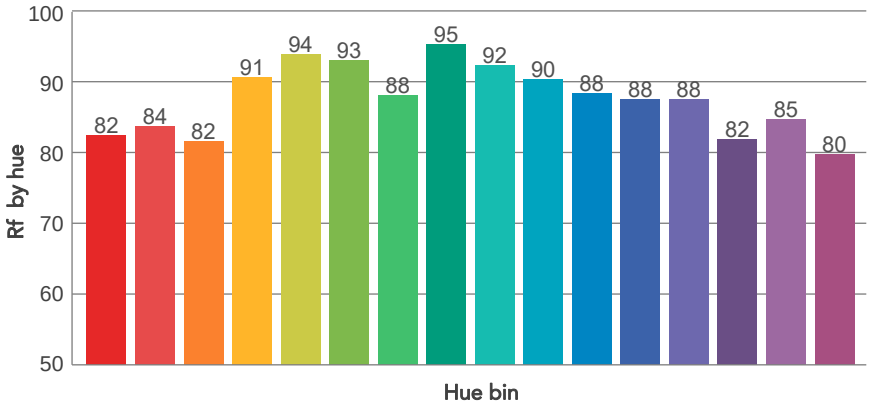
Fidelity index Rf

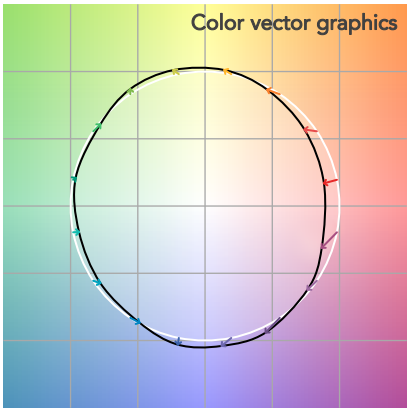
Rg 97,2

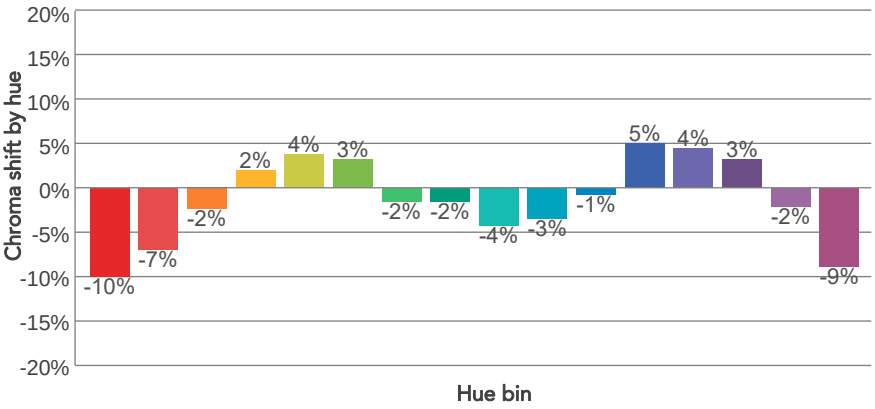
Gammut index

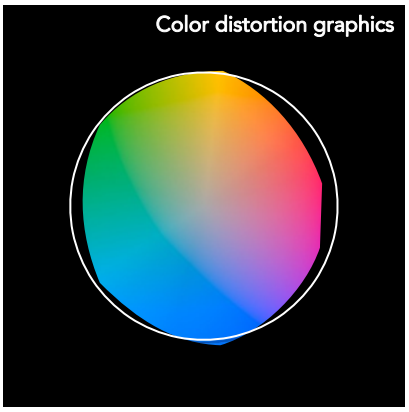
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	82	-10%	-1%
2	84	-7%	6%
3	82	-2%	10%
4	91	2%	6%
5	94	4%	4%
6	93	3%	-2%
7	88	-2%	-7%
8	95	-2%	-2%
9	92	-4%	1%
10	90	-3%	4%
11	88	-1%	8%
12	88	5%	0%
13	88	4%	-8%
14	82	3%	-15%
15	85	-2%	-9%
16	80	-9%	-14%

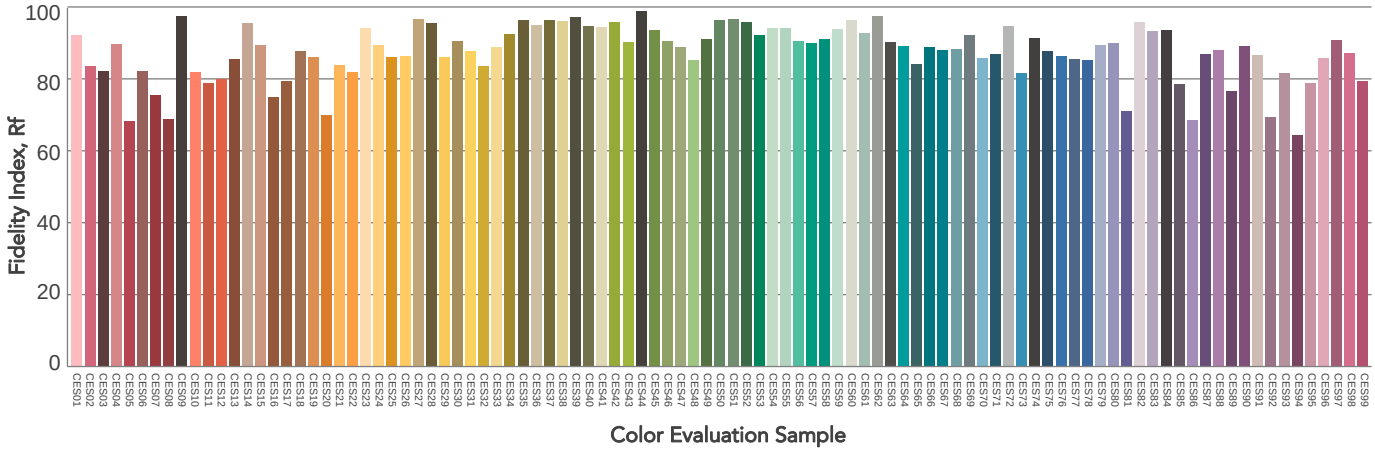












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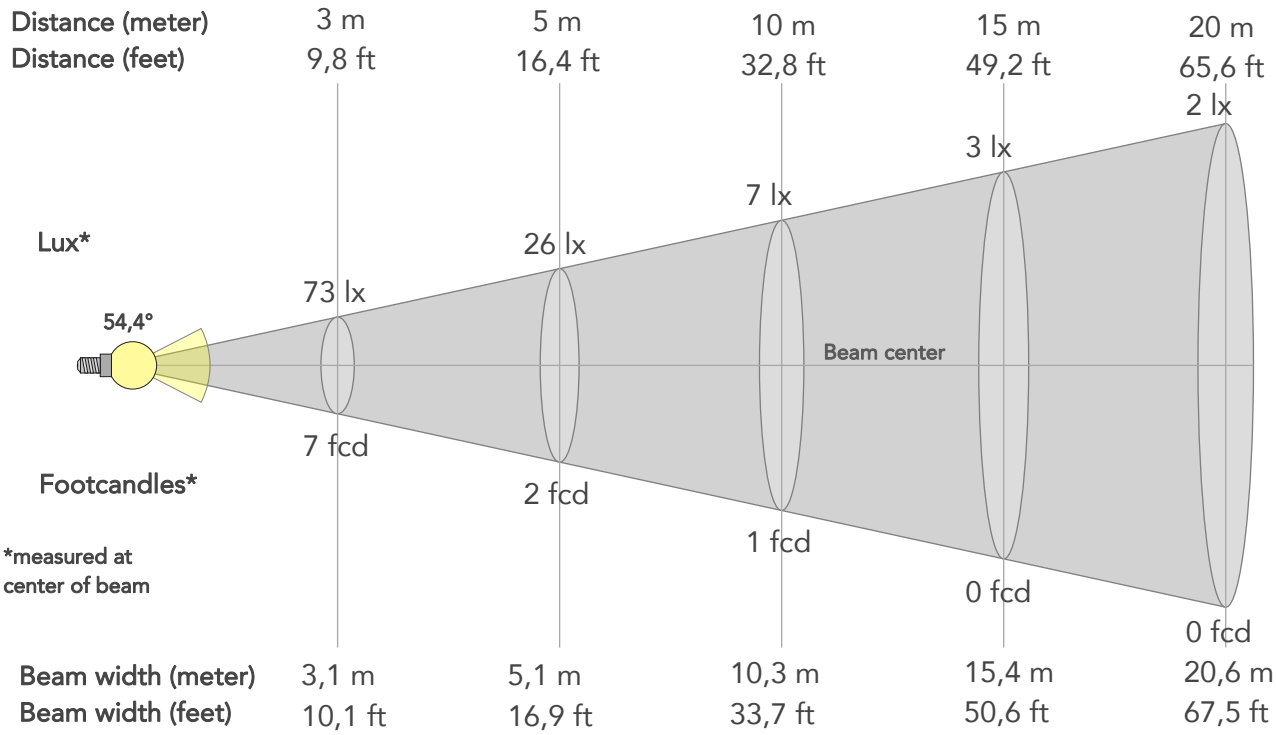
BEAM DETAILS

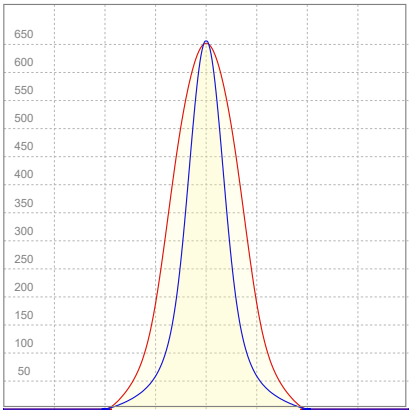
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
54,4°	104,3°	145,8°	92,1%	77,5%



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	654lx	163lx	73lx	41lx	26lx	12lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	61fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2,1m	3,1m	4,1m	5,1m	7,7m	10,3m	15,4m	20,6m	25,7m	30,9m	41,1m	51,4m
Beam wid.	3,4ft	6,8ft	10,1ft	13,5ft	16,9ft	25,3ft	33,7ft	50,6ft	67,5ft	84,3ft	101,2ft	135ft	168,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,115A	22,3W	32lm/W

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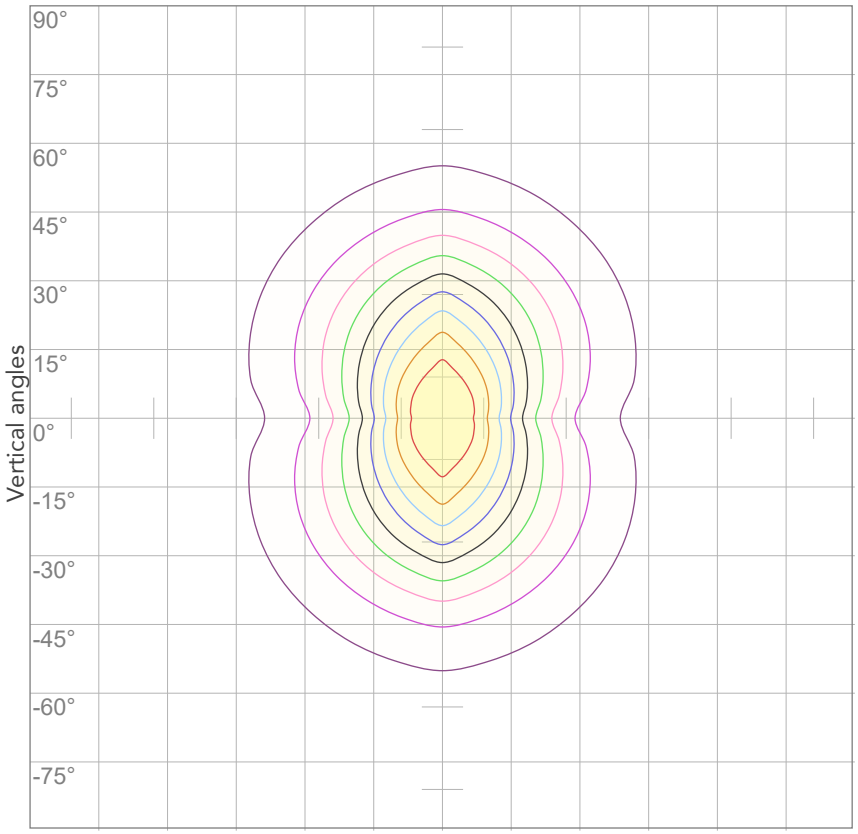
ISO DIAGRAMS

ISO CANDELA DIAGRAM



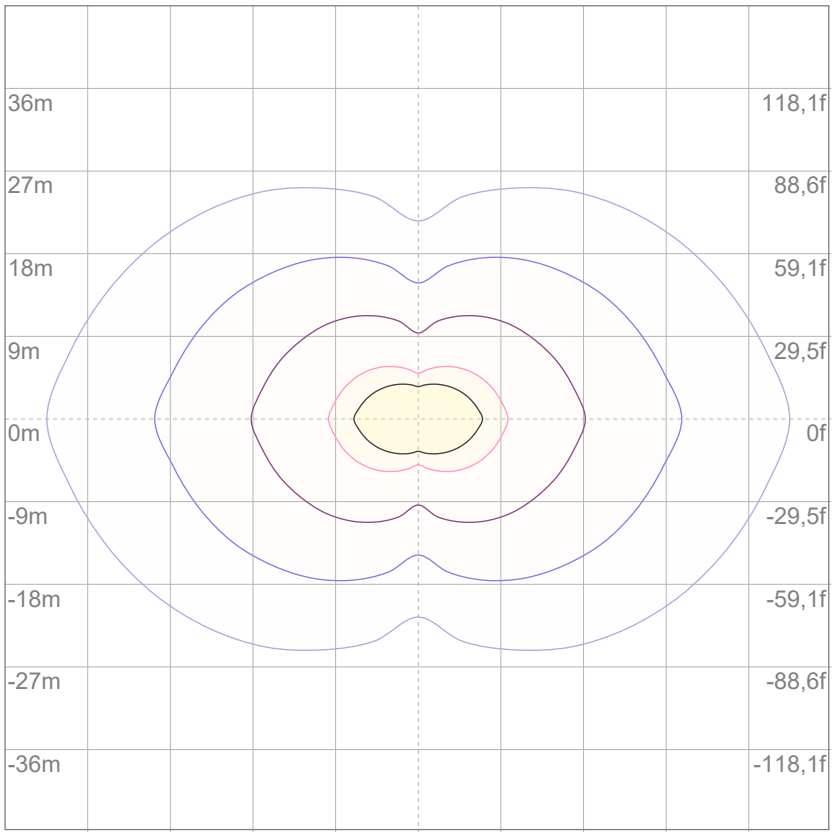
10%	65 cd
20%	131 cd
30%	196 cd
40%	261 cd
50%	327 cd
60%	392 cd
70%	458 cd
80%	523 cd

Conditions:

Number of c-planes: 4

Candela at center: 654 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,196 lx
5%	0,327 lx
10%	0,654 lx
30%	1,96 lx
50%	3,27 lx

Conditions:

Number of c-planes: 4

Lux at center: 6,54 lx

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