

Photometric Test Report



ARCSHINEM18FC

18 x 4 W IP66 RGB + Warm White

architectural linear bar, 100 cm

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TESTING PROCESS

Prolights has its own optical testing laboratory in order to provide accurate photometric reports for its lighting products. The testing laboratory contains certain variety of precise lighting measurement systems that ensure an optimal reading of all the characteristic parameters of the lighting devices. All measurements are made at a controlled room temperature of 20°C without any external light sources. This photometric report is obtained through the data measured by a high precision measurement system and analyzed by a dedicate software.

Prolights measurement instrument

Prolights measurement instrument is a complete measurement system for any light source. It's equipped with two-axis goniometer, that enables to measure the full 3D distribution field of the light source. This instrument measures the light intensity, the beam angle and the most significative colors parameters, like color temperature, spectral distribution, CRI, CQS, TM-30 with a very high accuracy rate.

Please Note: All measurements are made with light source at operating temperature. Before starting the measurement, the instrument analyzes the process of the light source during the heating phase. The measuring process of all the parameters begins only when the light emission is stable, that is with a variation of less than 0.5% in a 15 minutes time frame.

Prolights measurement software

The software provides user friendly interface for the operator who does the measurements, and it also analyzes and processes all the collected data by the instrument. With this software it is possible to see the measured data in real-time and it is possible to examine all the measured data and graphics afterwards as well. All information is collected in a specific Prolights template, and the software creates also IES and LDT files, which are widely used to transfer the photometric data, and to develop lighting system.

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

Total lumen output:

2385 lm

Peak candela output:

32801 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8° (Native Optic)

Target:

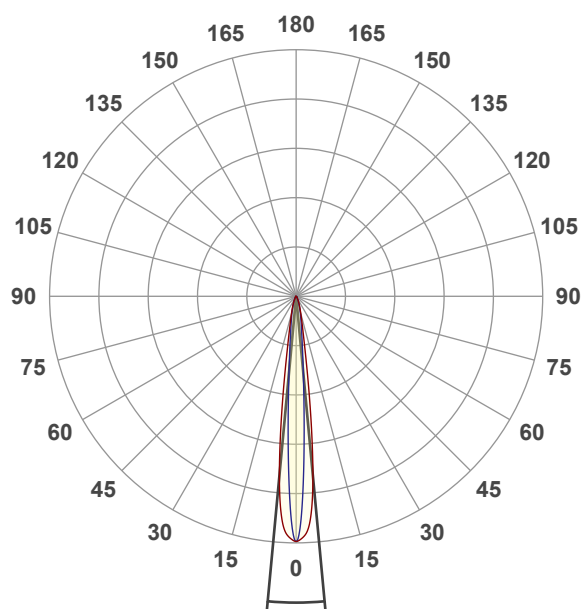
Full on

Operator:

Paolo Carvone

Date and time:

23/03/2022 09:34:50

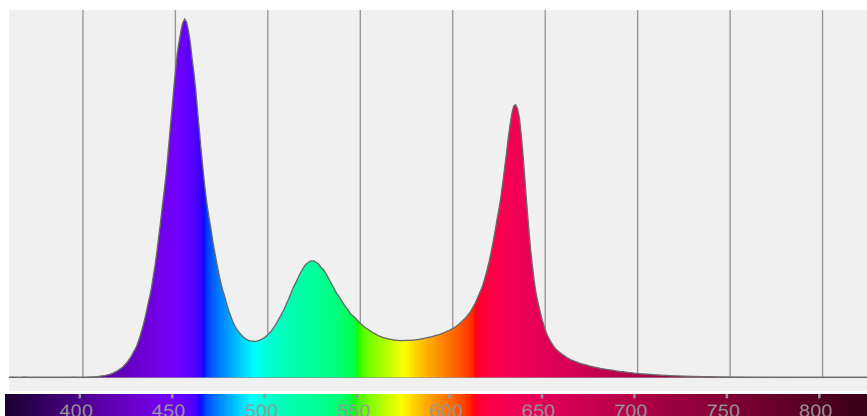


Beam angle 50%: 10,7°

Field angle 10%: 24,4°

Cut off angle 2.5%: 45,5°

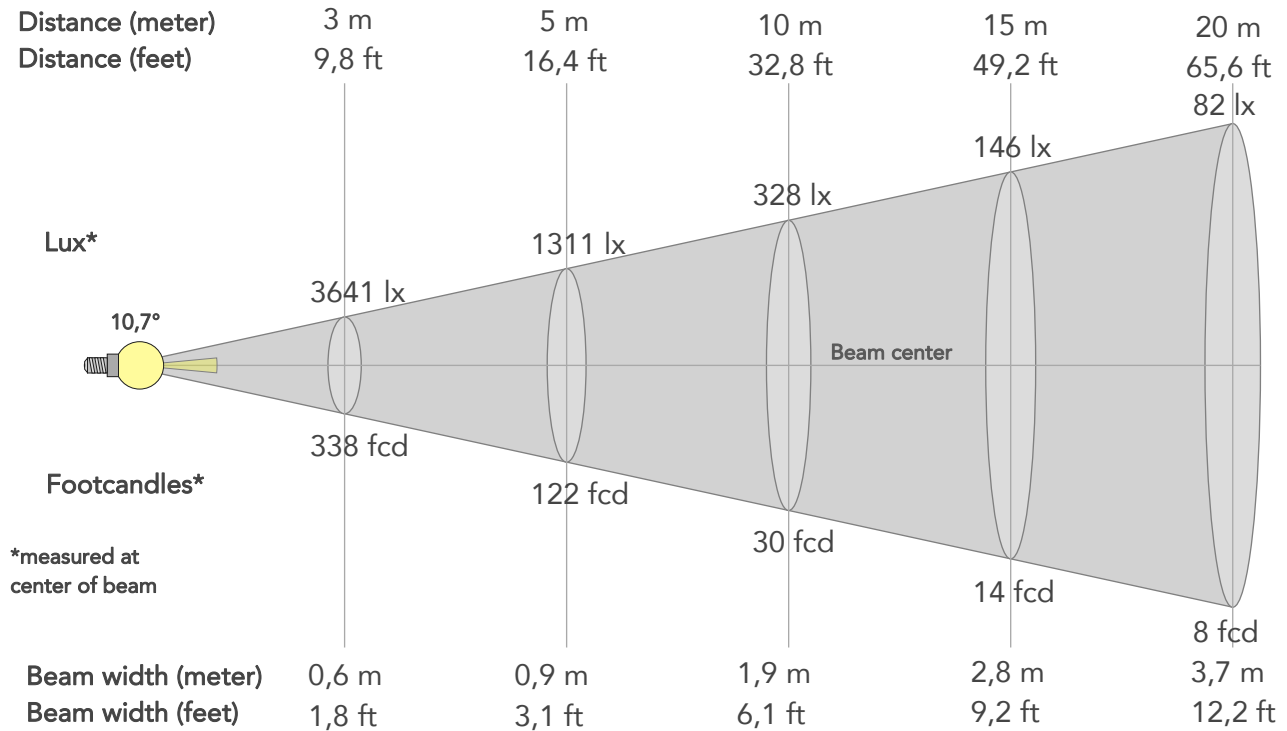
Spectra



BEAM DETAILS



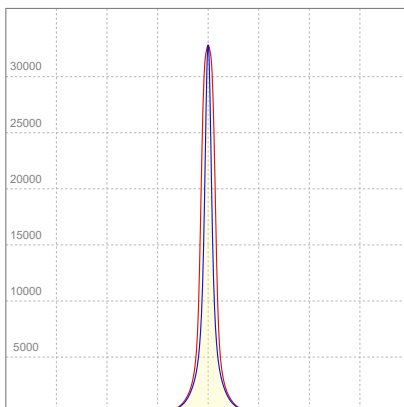
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,7°	24,4°	45,5°	99,9%	99,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	32770lx	8192lx	3641lx	2048lx	1311lx	583lx	328lx	146lx	82lx	52lx	36lx	20lx	13lx
Footcand.	3044fcd	761fcd	338fcd	190fcd	122fcd	54fcd	30fcd	14fcd	8fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,2m	0,4m	0,6m	0,7m	0,9m	1,4m	1,9m	2,8m	3,7m	4,7m	5,6m	7,5m	9,3m
Beam wid.	0,6ft	1,2ft	1,8ft	2,4ft	3,1ft	4,6ft	6,1ft	9,2ft	12,2ft	15,3ft	18,4ft	24,5ft	30,6ft

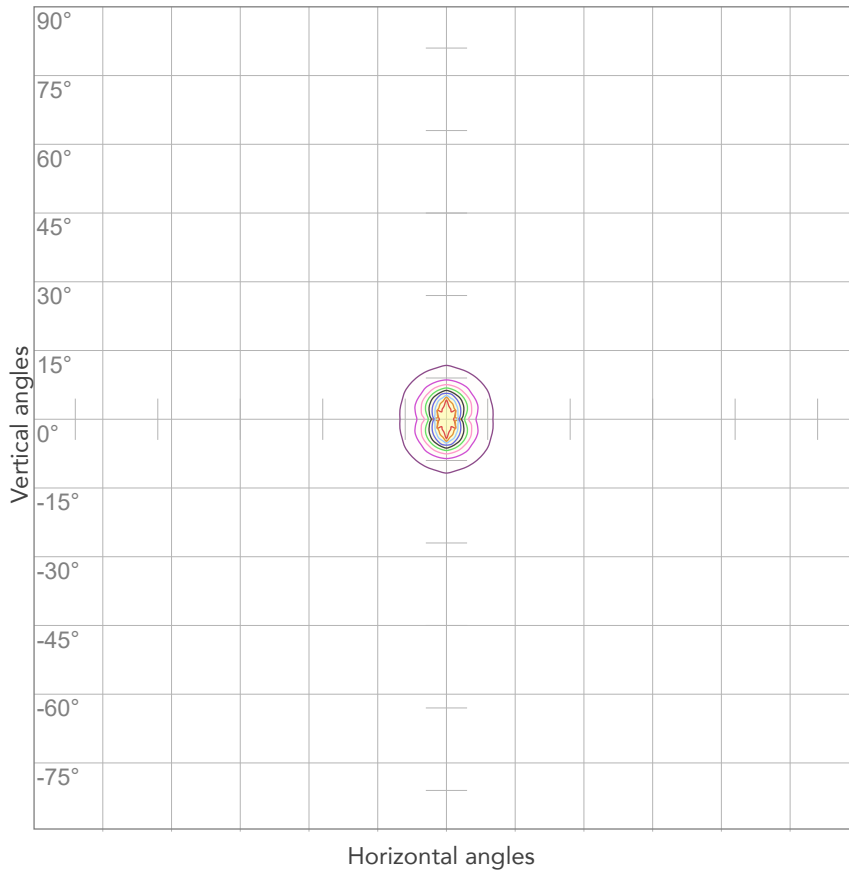
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,380A	80,0W	30lm/W
Power FC			
0,94			

ISO CANDELA DIAGRAM



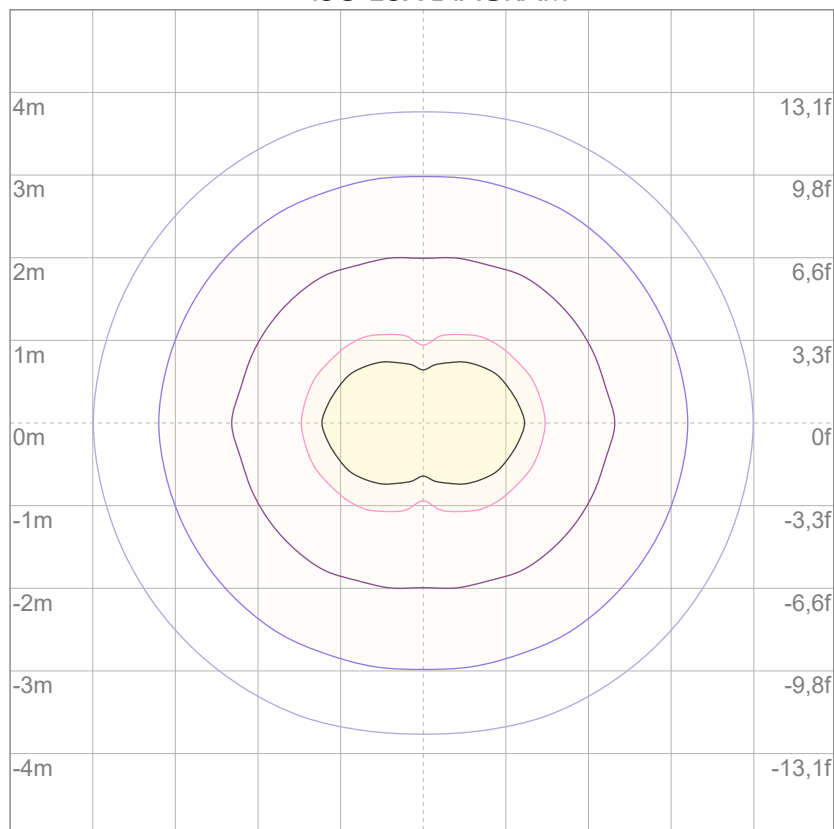
10%	3277 cd
20%	6554 cd
30%	9831 cd
40%	13108 cd
50%	16385 cd
60%	19662 cd
70%	22939 cd
80%	26216 cd

Conditions:

Number of c-planes: 4

Candela at center: 32770 cd

ISO LUX DIAGRAM



3%	9,83 lx
5%	16,4 lx
10%	32,8 lx
30%	98,3 lx
50%	164 lx

Conditions:

Number of c-planes: 4

Lux at center: 328 lx

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

Total lumen output:

2353 lm

Peak candela output:

6410 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 20°

Target:

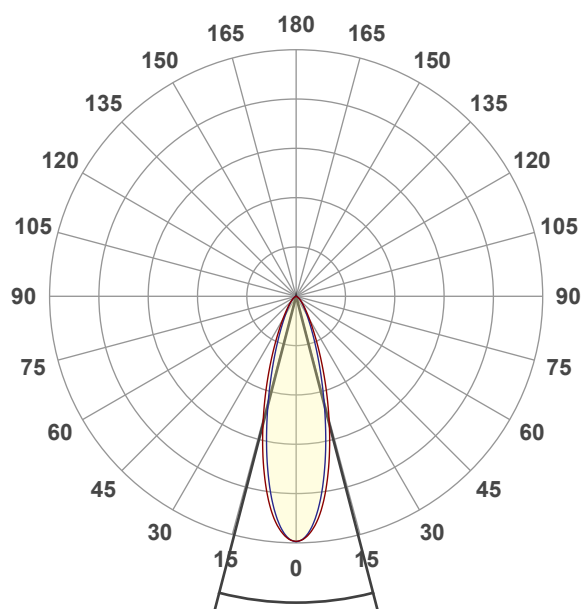
Full on

Operator:

Paolo Carvone

Date and time:

23/03/2022 10:03:27

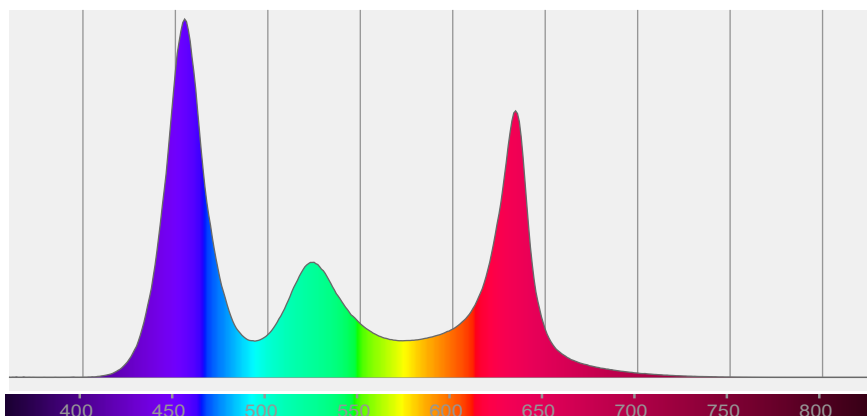


Beam angle 50%: 29,1°

Field angle 10%: 59,6°

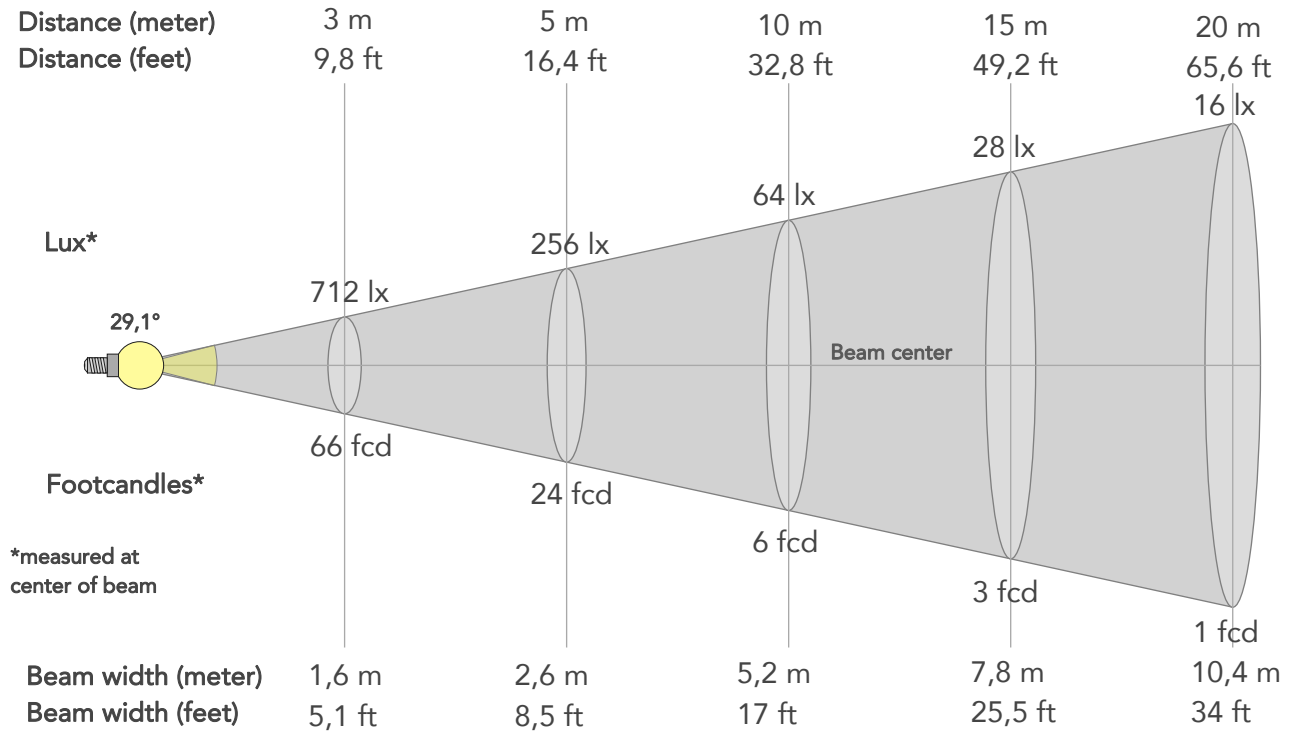
Cut off angle 2.5%: 92,4°

Spectra



BEAM DETAILS

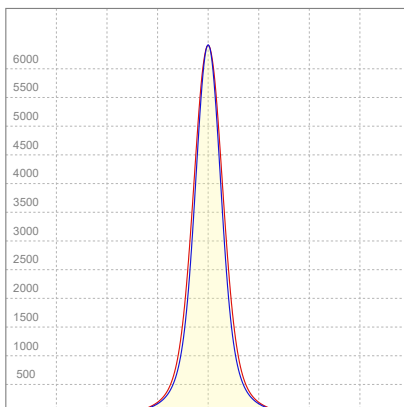
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29,1°	59,6°	92,4°	99,0%	93,4%



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	6408lx	1602lx	712lx	401lx	256lx	114lx	64lx	28lx	16lx	10lx	7lx	4lx	3lx
Footcand.	595fcd	149fcd	66fcd	37fcd	24fcd	11fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,6m	2,1m	2,6m	3,9m	5,2m	7,8m	10,4m	13m	15,6m	20,8m	25,9m
Beam wid.	1,7ft	3,4ft	5,1ft	6,8ft	8,5ft	12,8ft	17ft	25,5ft	34ft	42,6ft	51,1ft	68,1ft	85,1ft

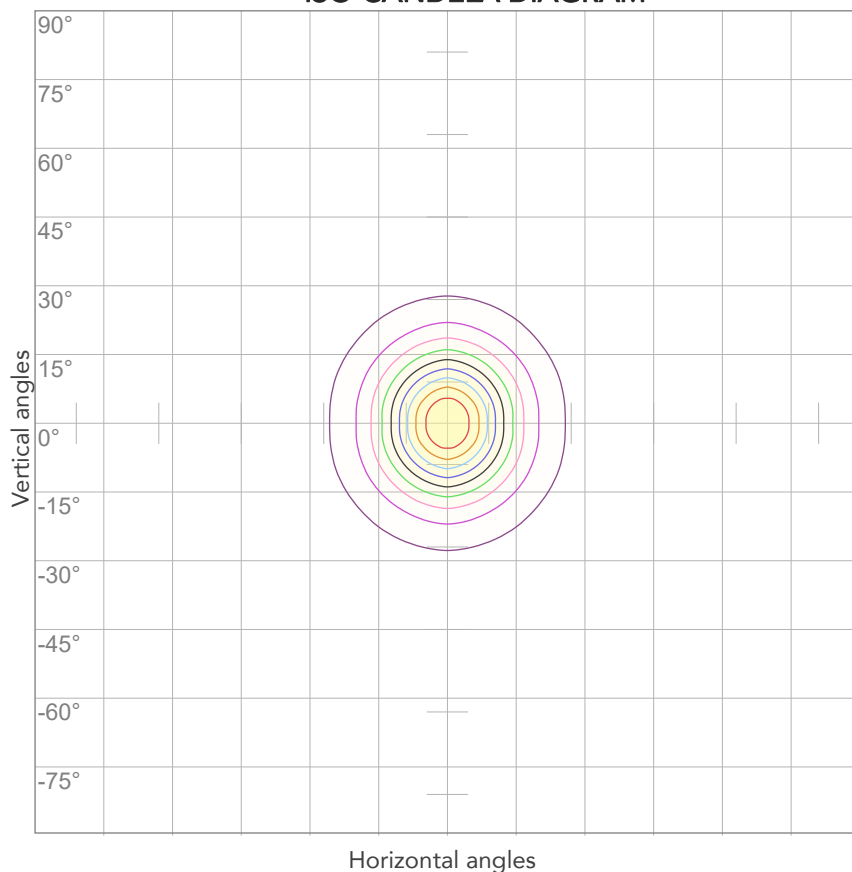
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,376A	78,9W	30lm/W
Power FC			
0,94			

ISO CANDELA DIAGRAM



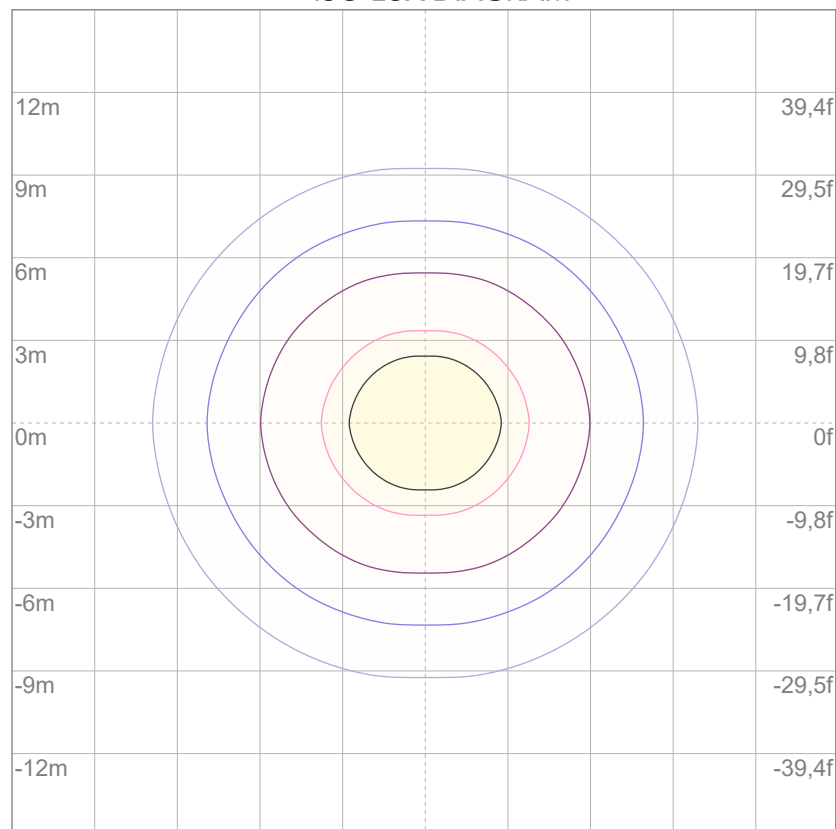
10%	641 cd
20%	1282 cd
30%	1922 cd
40%	2563 cd
50%	3204 cd
60%	3845 cd
70%	4486 cd
80%	5127 cd

Conditions:

Number of c-planes: 4

Candela at center: 6408 cd

ISO LUX DIAGRAM



3%	1,92 lx
5%	3,20 lx
10%	6,41 lx
30%	19,2 lx
50%	32,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 64,1 lx

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

Total lumen output:

2242 lm

Peak candela output:

2373 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 40°

Target:

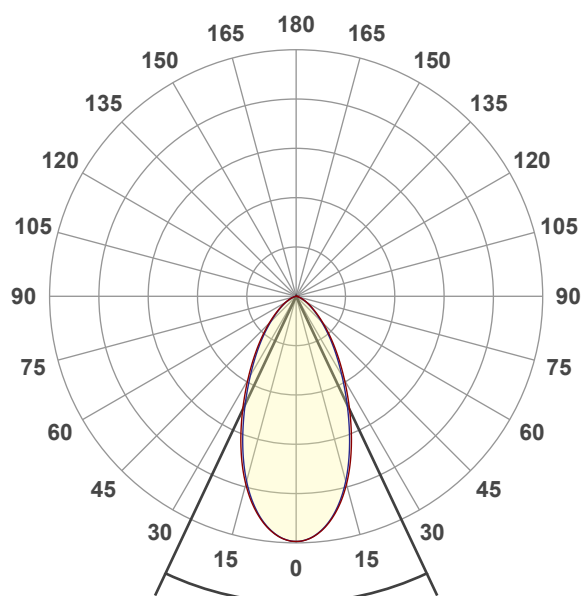
Full on

Operator:

Paolo Carvone

Date and time:

24/03/2022 11:24:58

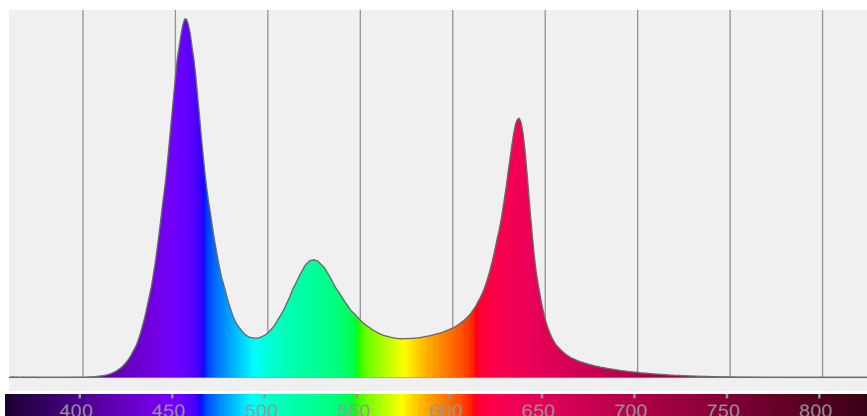


Beam angle 50%: 50,5°

Field angle 10%: 101,5°

Cut off angle 2.5%: 134,1°

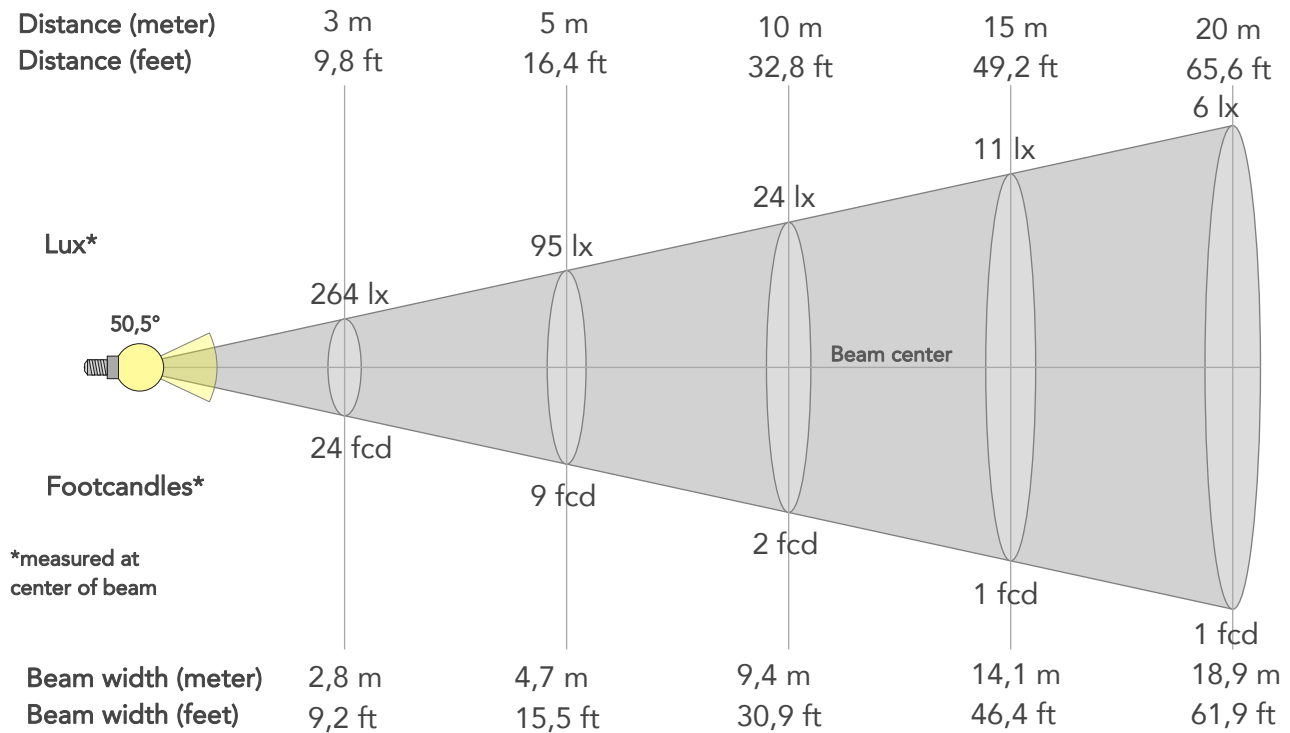
Spectra



BEAM DETAILS



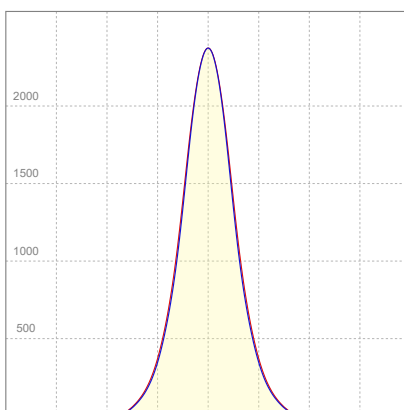
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50,5°	101,5°	134,1°	95,8%	83,3%



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	2372lx	593lx	264lx	148lx	95lx	42lx	24lx	11lx	6lx	4lx	3lx	1lx	1lx
Footcand.	220fcd	55fcd	24fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,8m	4,7m	7,1m	9,4m	14,1m	18,9m	23,6m	28,3m	37,7m	47,1m
Beam wid.	3,1ft	6,2ft	9,2ft	12,4ft	15,5ft	23,2ft	30,9ft	46,4ft	61,9ft	77,3ft	92,8ft	123,7ft	154,6ft

LINEAR DISTRIBUTION DIAGRAM

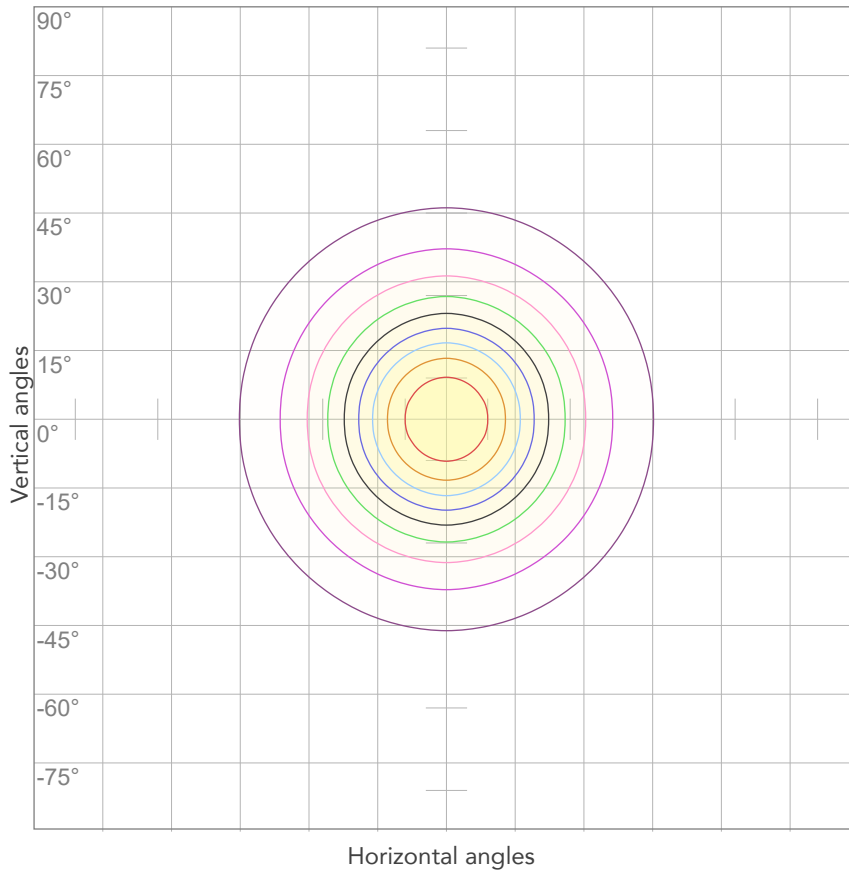


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,367A	77,3W	29lm/W

Power FC
0,94

ISO CANDELA DIAGRAM



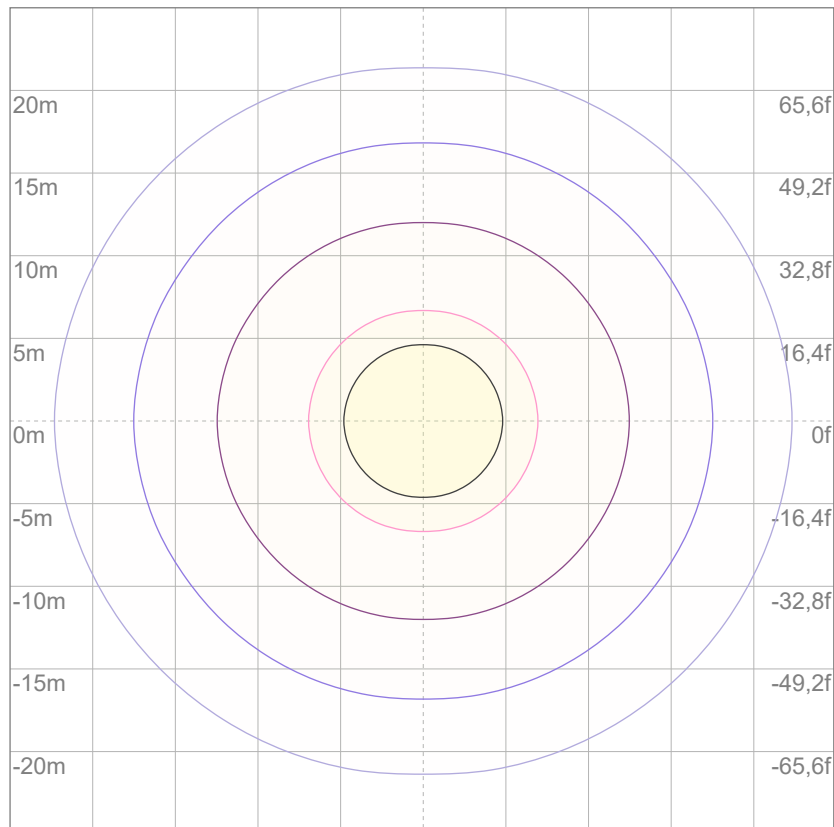
10%	237 cd
20%	474 cd
30%	712 cd
40%	949 cd
50%	1186 cd
60%	1423 cd
70%	1661 cd
80%	1898 cd

Conditions:

Number of c-planes: 4

Candela at center: 2372 cd

ISO LUX DIAGRAM



3%	0,712 lx
5%	1,19 lx
10%	2,37 lx
30%	7,12 lx
50%	11,9 lx

Conditions:

Number of c-planes: 4

Lux at center: 23,7 lx

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

Total lumen output:

2262 lm

Peak candela output:

1722 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 60°

Target:

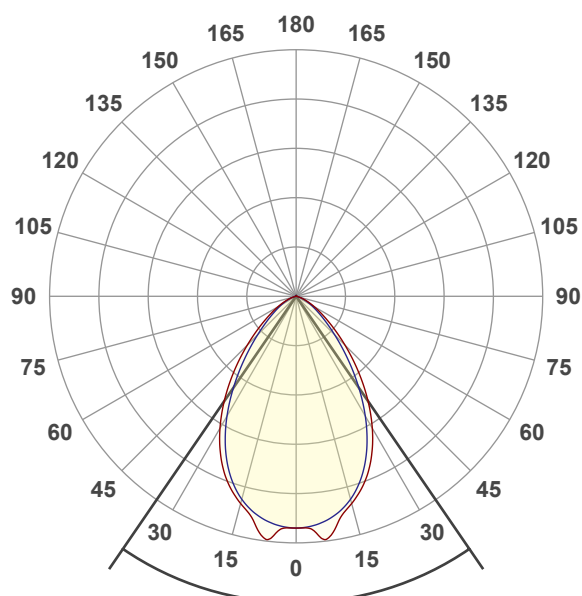
Full on

Operator:

Paolo Carvone

Date and time:

23/03/2022 15:56:23

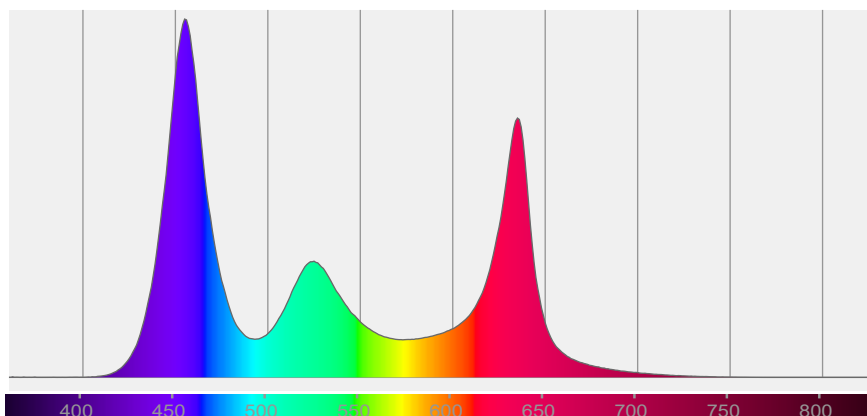


Beam angle 50%: 68,9°

Field angle 10%: 114,4°

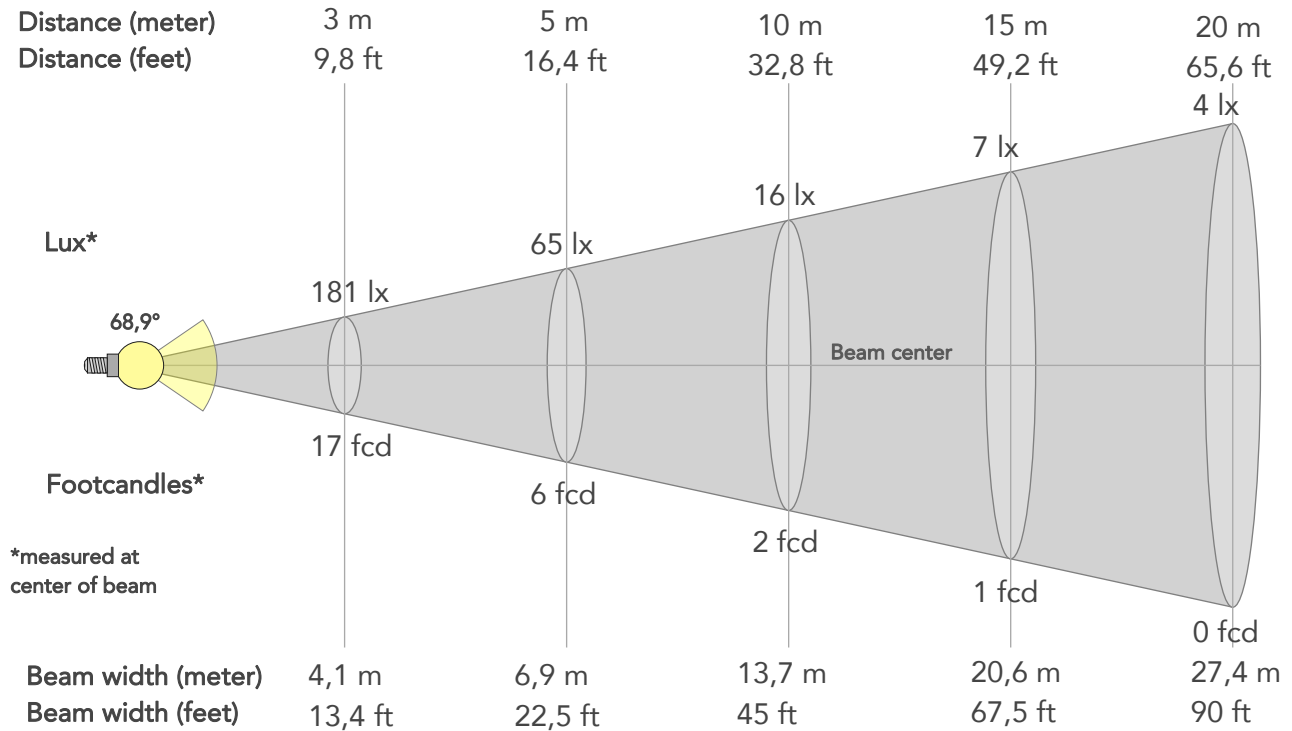
Cut off angle 2.5%: 141°

Spectra



BEAM DETAILS

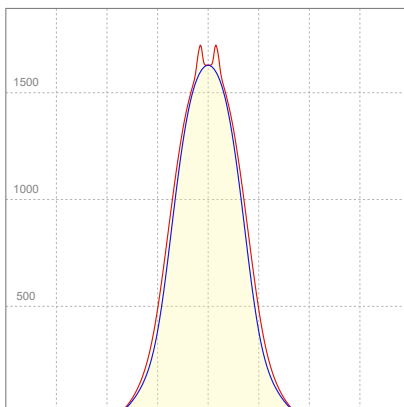
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
68,9°	114,4°	141°	95,3%	80,7%



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	1629lx	407lx	181lx	102lx	65lx	29lx	16lx	7lx	4lx	3lx	2lx	1lx	1lx
Footcand.	151fcd	38fcd	17fcd	9fcd	6fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,7m	4,1m	5,5m	6,9m	10,3m	13,7m	20,6m	27,4m	34,3m	41,1m	54,9m	68,6m
Beam wid.	4,5ft	9,1ft	13,4ft	18ft	22,5ft	33,7ft	45ft	67,5ft	90ft	112,4ft	134,9ft	179,9ft	224,9ft

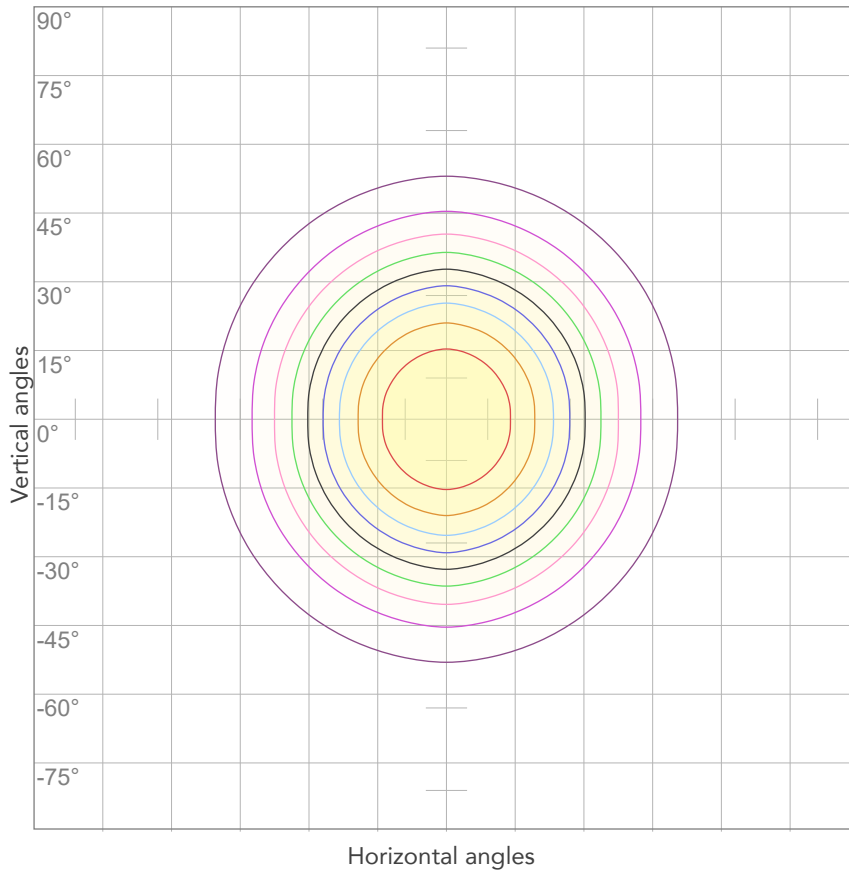
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
221V	0,374A	77,8W	29lm/W
Power FC			
0,94			

ISO CANDELA DIAGRAM



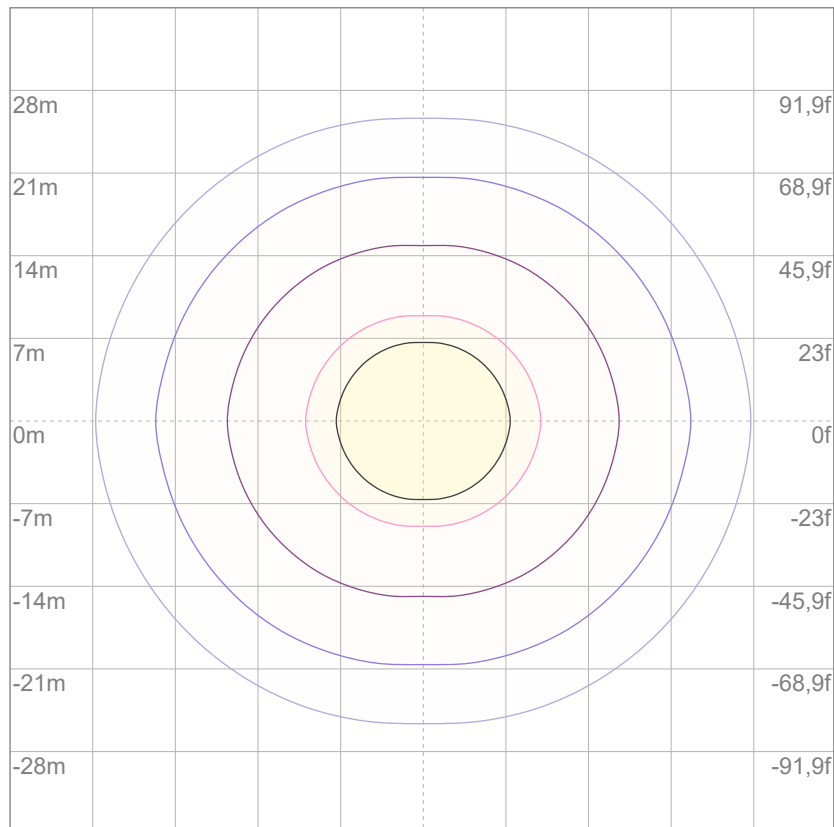
10%	163 cd
20%	326 cd
30%	489 cd
40%	651 cd
50%	814 cd
60%	977 cd
70%	1140 cd
80%	1303 cd

Conditions:

Number of c-planes: 4

Candela at center: 1629 cd

ISO LUX DIAGRAM



3%	0,489 lx
5%	0,814 lx
10%	1,63 lx
30%	4,89 lx
50%	8,14 lx

Conditions:

Number of c-planes: 4

Lux at center: 16,3 lx

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

Total lumen output:

3567 lm

Peak candela output:

4052 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 10°x 60°

Target:

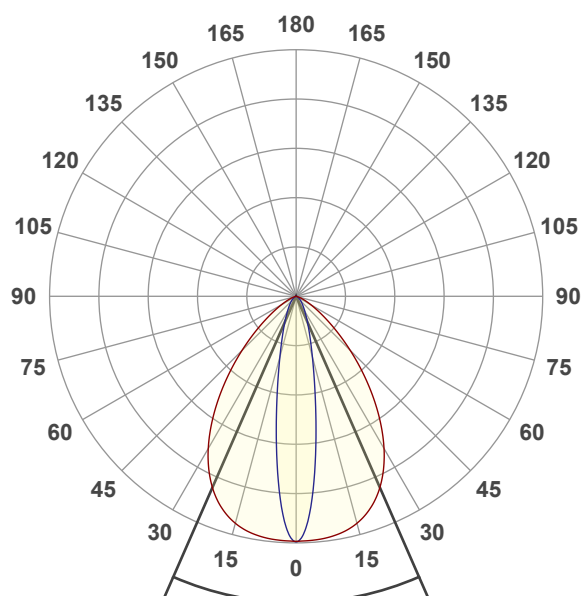
Full on

Operator:

Paolo Carvone

Date and time:

24/03/2022 09:22:51

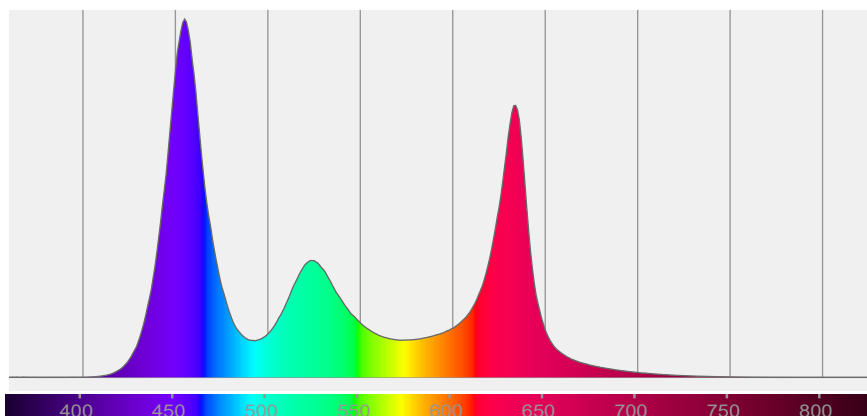


Beam angle 50%: 47,3°

Field angle 10%: 82,3°

Cut off angle 2.5%: 114,1°

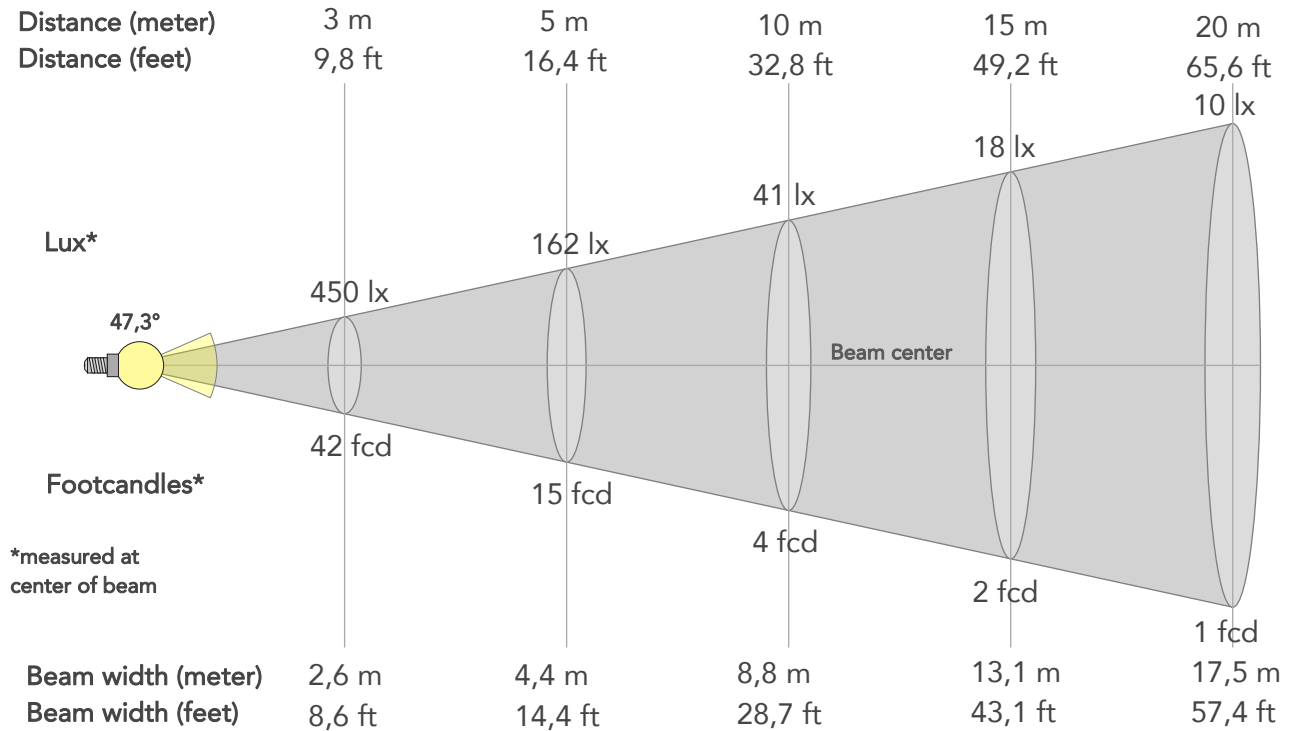
Spectra



BEAM DETAILS



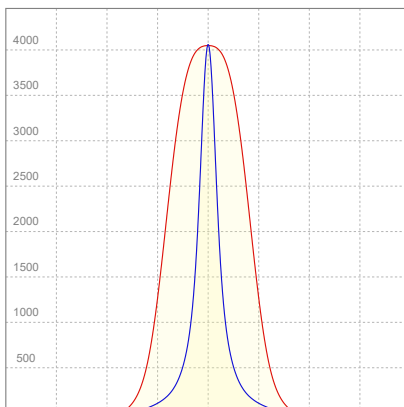
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47,3°	82,3°	114,1°	97,1%	83,7%



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	4050lx	1013lx	450lx	253lx	162lx	72lx	41lx	18lx	10lx	6lx	5lx	3lx	2lx
Footcand.	376fcd	94fcd	42fcd	24fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,6m	3,5m	4,4m	6,6m	8,8m	13,1m	17,5m	21,9m	26,3m	35m	43,8m
Beam wid.	2,9ft	5,8ft	8,6ft	11,5ft	14,4ft	21,5ft	28,7ft	43,1ft	57,4ft	71,8ft	86,2ft	114,9ft	143,6ft

LINEAR DISTRIBUTION DIAGRAM

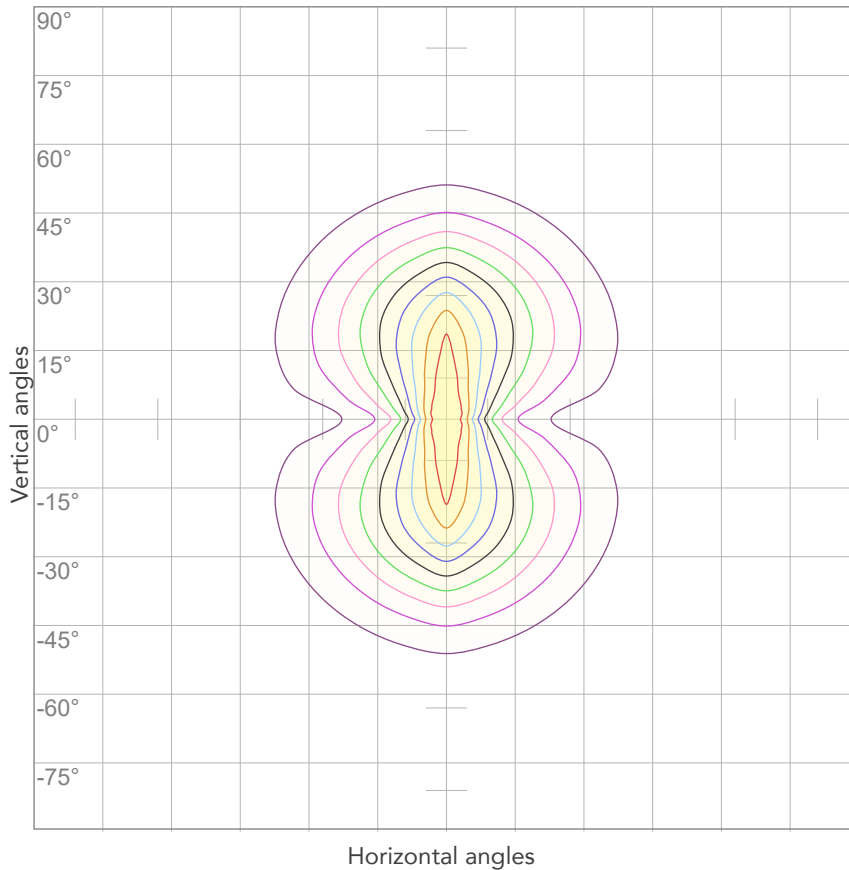


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,377A	79,2W	45lm/W

Power FC
0,94

ISO CANDELA DIAGRAM



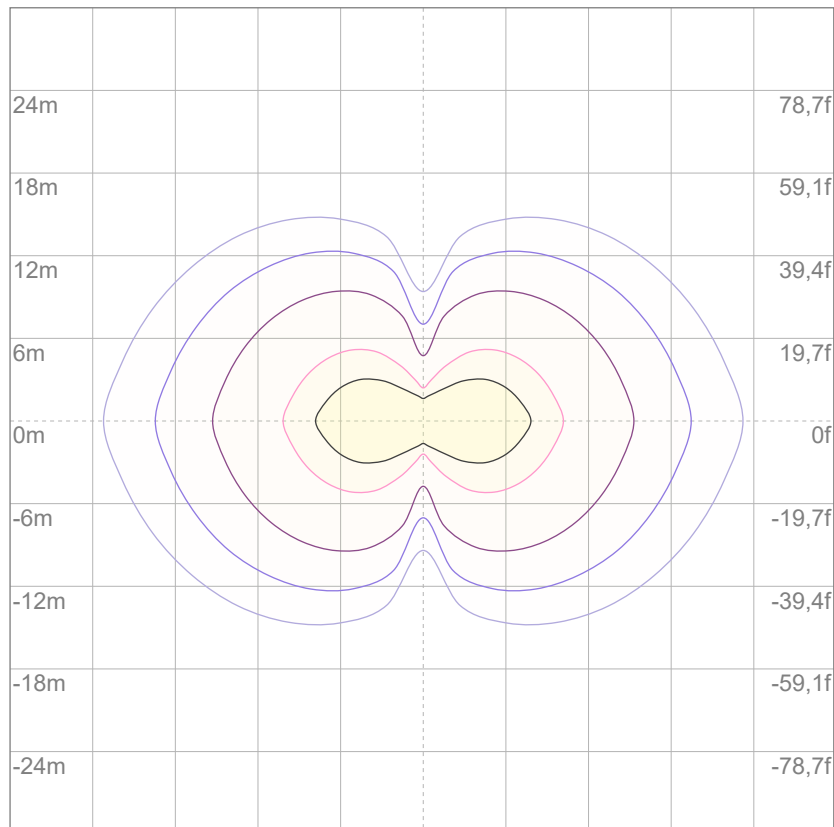
10%	405 cd
20%	810 cd
30%	1215 cd
40%	1620 cd
50%	2025 cd
60%	2430 cd
70%	2835 cd
80%	3240 cd

Conditions:

Number of c-planes: 4

Candela at center: 4050 cd

ISO LUX DIAGRAM



3%	1,22 lx
5%	2,03 lx
10%	4,05 lx
30%	12,2 lx
50%	20,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 40,5 lx

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

Total lumen output:

2460 lm

Peak candela output:

2894 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 30°x 60°

Target:

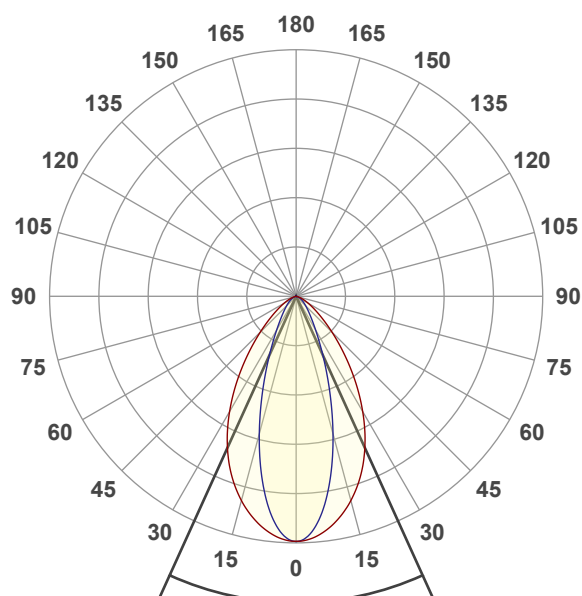
Full on

Operator:

Paolo Carvone

Date and time:

24/03/2022 12:43:04

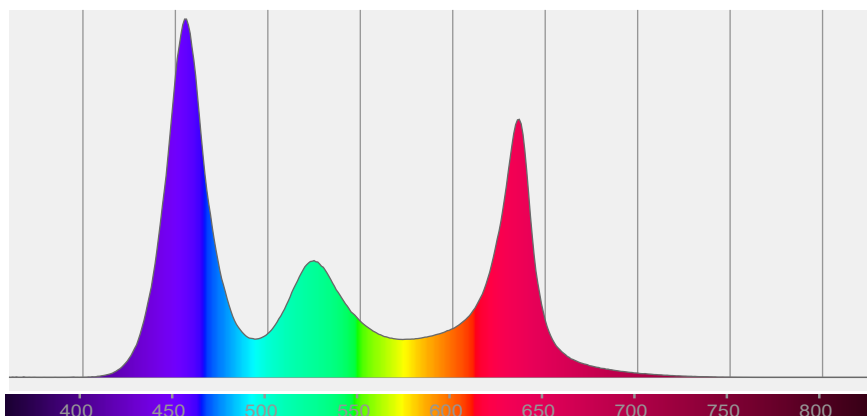


Beam angle 50%: 48,8°

Field angle 10%: 89,6°

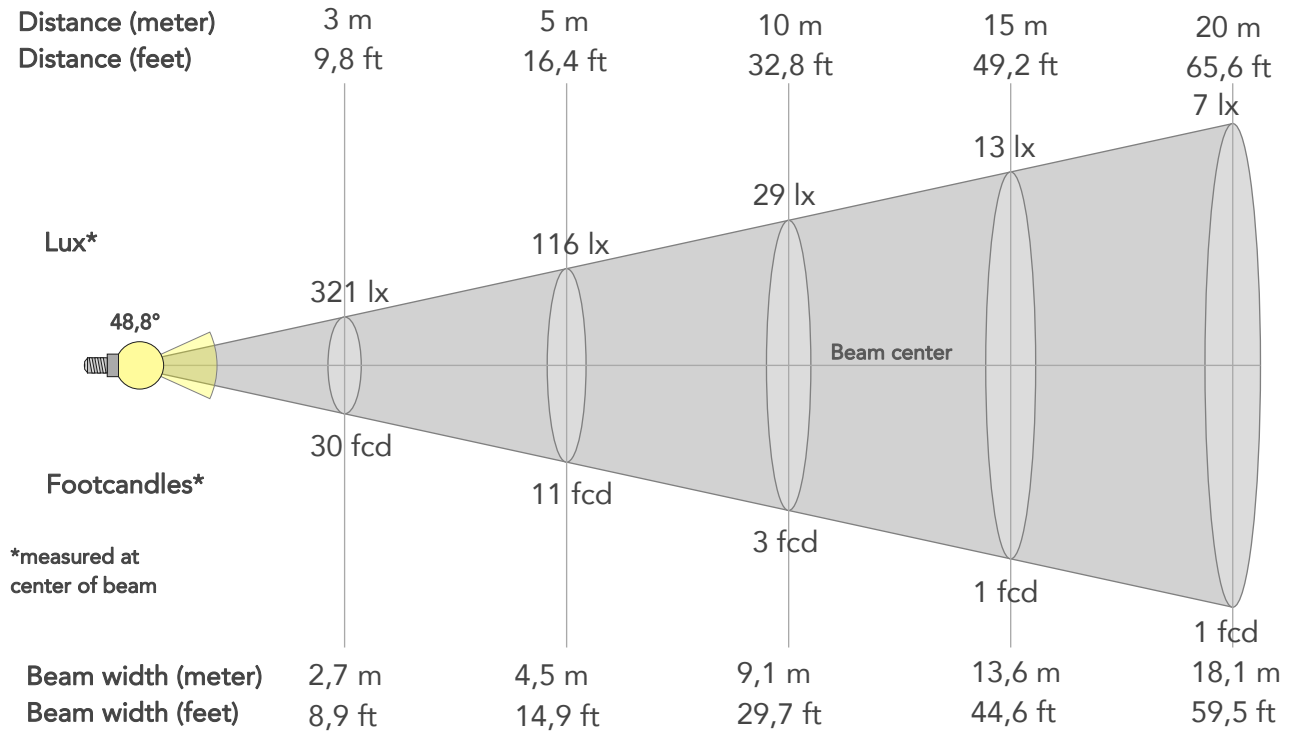
Cut off angle 2.5%: 126°

Spectra



BEAM DETAILS

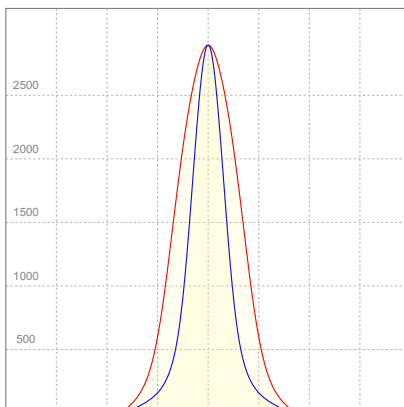
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,8°	89,6°	126°	96,4%	84,8%



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	2893lx	723lx	321lx	181lx	116lx	51lx	29lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	269fcd	67fcd	30fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,8m	9,1m	13,6m	18,1m	22,7m	27,2m	36,3m	45,3m
Beam wid.	3ft	6ft	8,9ft	11,9ft	14,9ft	22,3ft	29,7ft	44,6ft	59,5ft	74,4ft	89,2ft	119ft	148,7ft

LINEAR DISTRIBUTION DIAGRAM

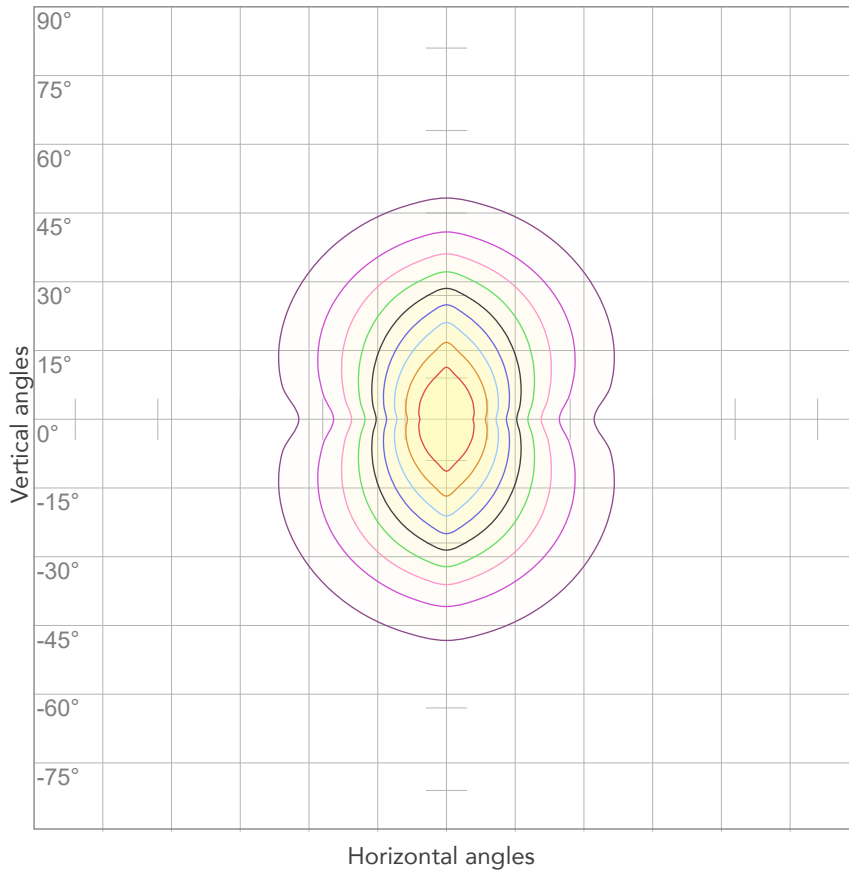


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,368A	77,6W	32lm/W

Power FC
0,94

ISO CANDELA DIAGRAM



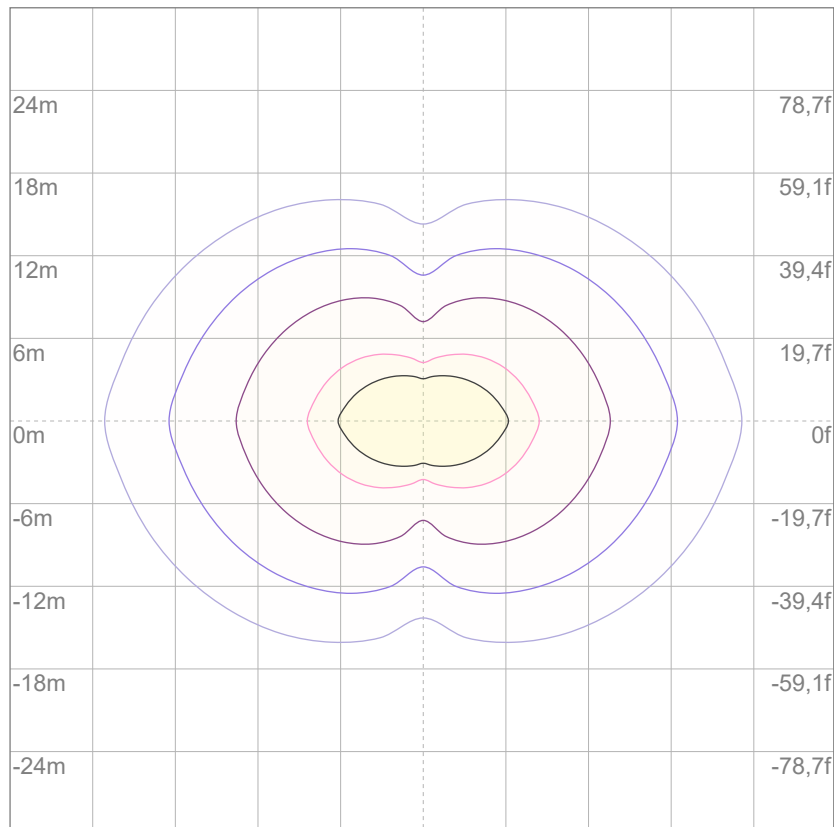
10%	289 cd
20%	579 cd
30%	868 cd
40%	1157 cd
50%	1447 cd
60%	1736 cd
70%	2025 cd
80%	2314 cd

Conditions:

Number of c-planes: 4

Candela at center: 2893 cd

ISO LUX DIAGRAM



3%	0,868 lx
5%	1,45 lx
10%	2,89 lx
30%	8,68 lx
50%	14,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 28,9 lx

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

Total lumen output:

498 lm

Peak candela output:

6526 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8° (Native Optic)

Target:

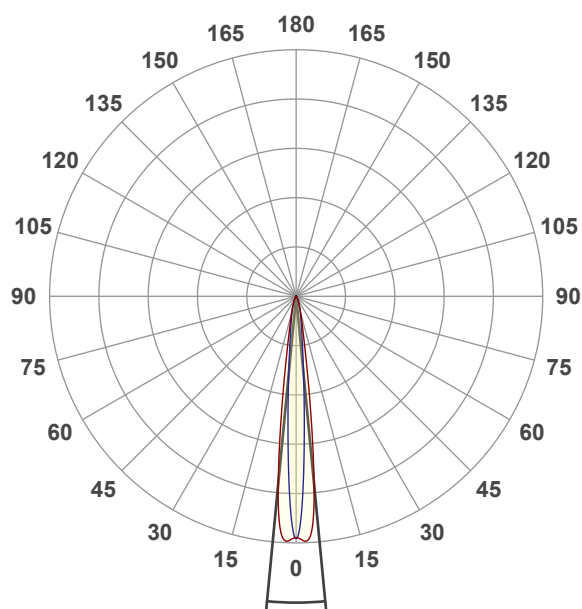
Red

Operator:

Paolo Carvone

Date and time:

23/03/2022 11:33:51

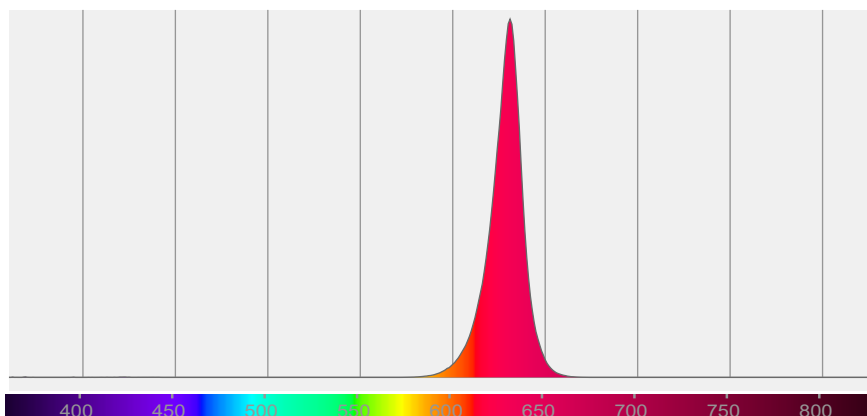


Beam angle 50%: 10,9°

Field angle 10%: 24,5°

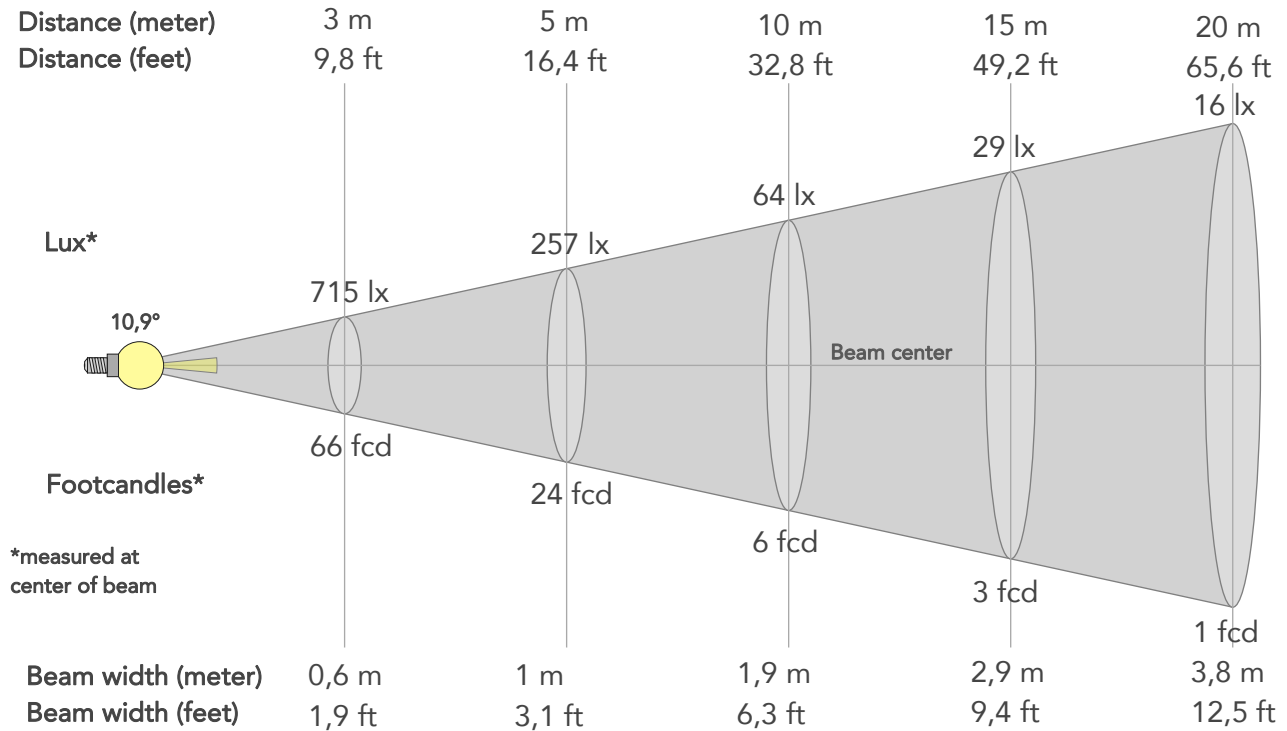
Cut off angle 2.5%: 45,7°

Spectra



BEAM DETAILS

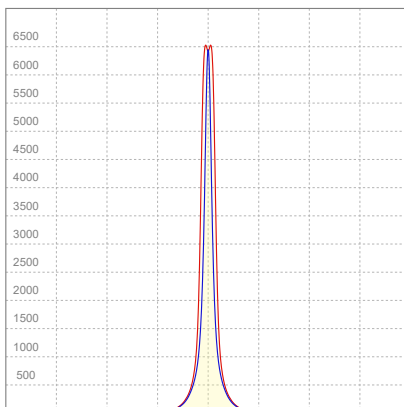
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,9°	24,5°	45,7°	99,9%	98,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	6431lx	1608lx	715lx	402lx	257lx	114lx	64lx	29lx	16lx	10lx	7lx	4lx	3lx
Footcand.	598fcd	149fcd	66fcd	37fcd	24fcd	11fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,4m	1,9m	2,9m	3,8m	4,8m	5,7m	7,6m	9,5m
Beam wid.	0,6ft	1,3ft	1,9ft	2,5ft	3,1ft	4,7ft	6,3ft	9,4ft	12,5ft	15,7ft	18,8ft	25ft	31,3ft

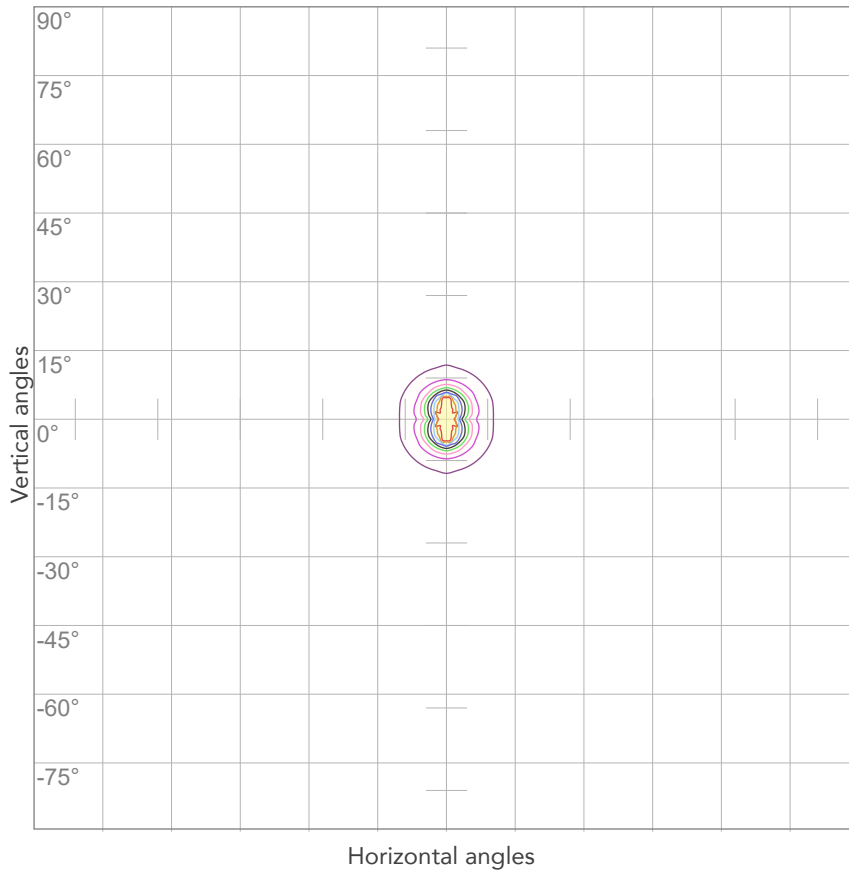
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,118A	18,4W	27lm/W

ISO CANDELA DIAGRAM



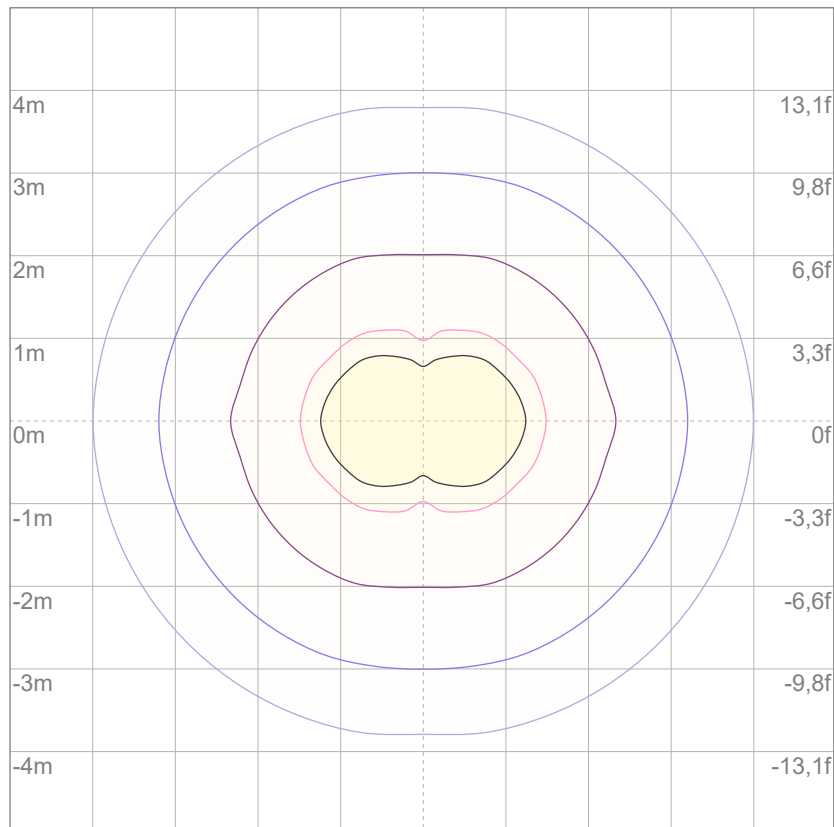
10%	643 cd
20%	1286 cd
30%	1929 cd
40%	2573 cd
50%	3216 cd
60%	3859 cd
70%	4502 cd
80%	5145 cd

Conditions:

Number of c-planes: 4

Candela at center: 6431 cd

ISO LUX DIAGRAM



3%	1,93 lx
5%	3,22 lx
10%	6,43 lx
30%	19,3 lx
50%	32,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 64,3 lx

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

Total lumen output:

470 lm

Peak candela output:

1317 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 20°

Target:

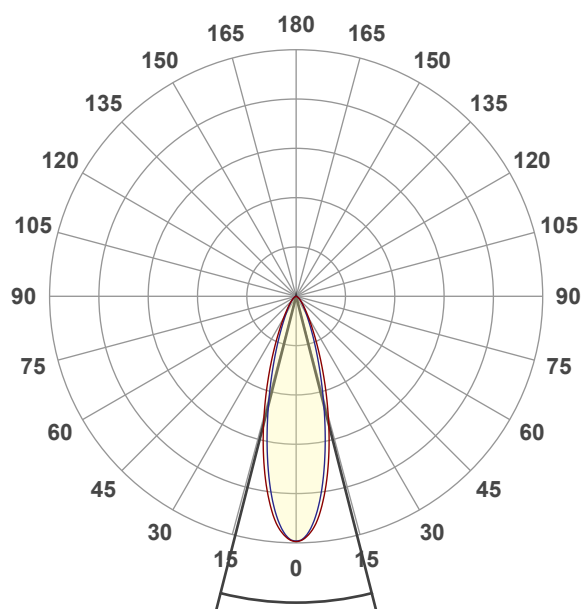
Red

Operator:

Paolo Carvone

Date and time:

23/03/2022 12:50:40

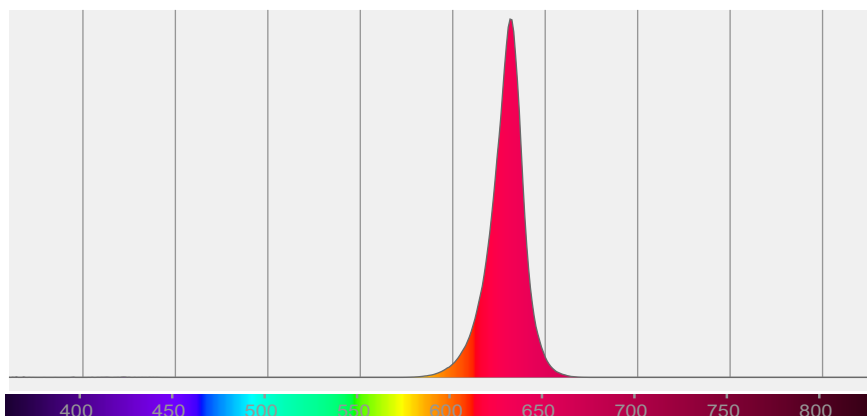


Beam angle 50%: 28,6°

Field angle 10%: 58,3°

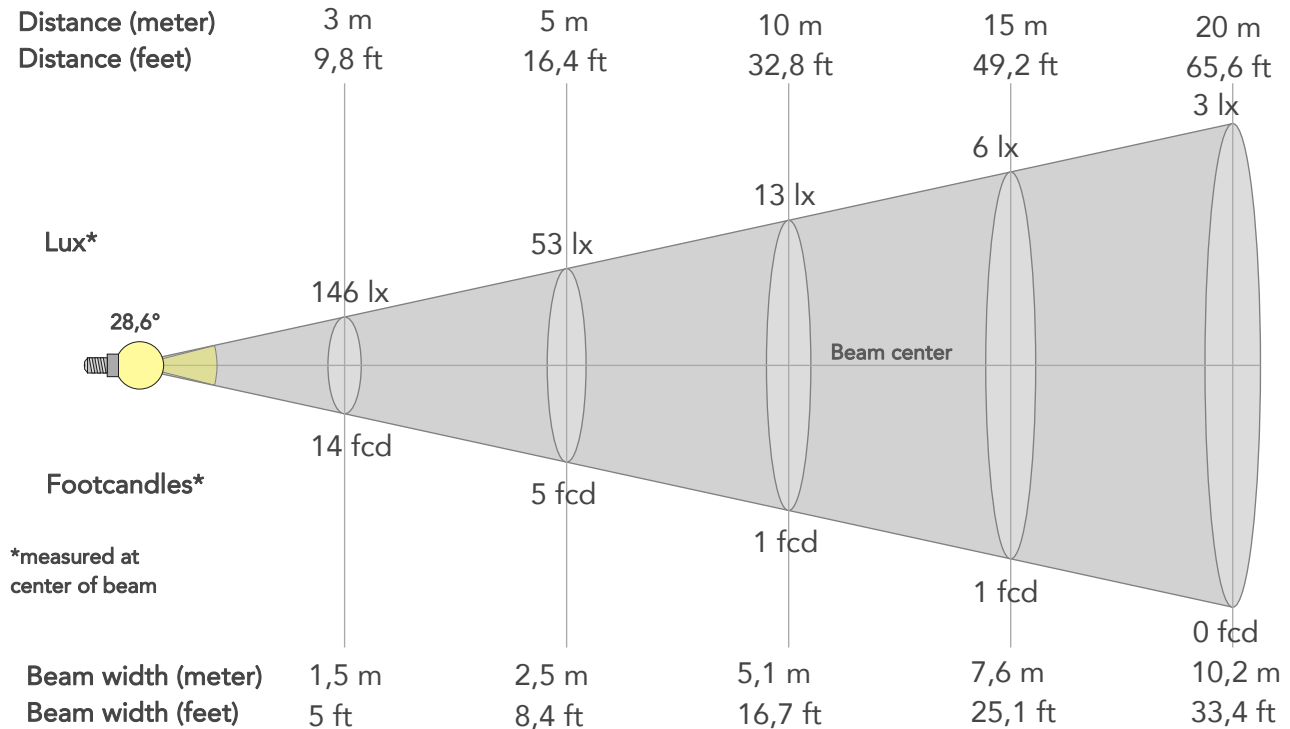
Cut off angle 2.5%: 90,8°

Spectra



BEAM DETAILS

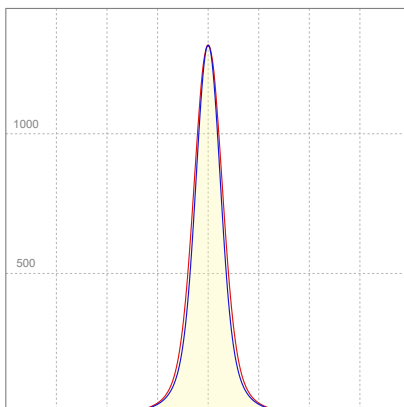
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28,6°	58,3°	90,8°	98,4%	92,8%



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	1316lx	329lx	146lx	82lx	53lx	23lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	122fcd	31fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,5m	3,8m	5,1m	7,6m	10,2m	12,7m	15,3m	20,4m	25,5m
Beam wid.	1,7ft	3,4ft	5ft	6,7ft	8,4ft	12,5ft	16,7ft	25,1ft	33,4ft	41,8ft	50,1ft	66,8ft	83,5ft

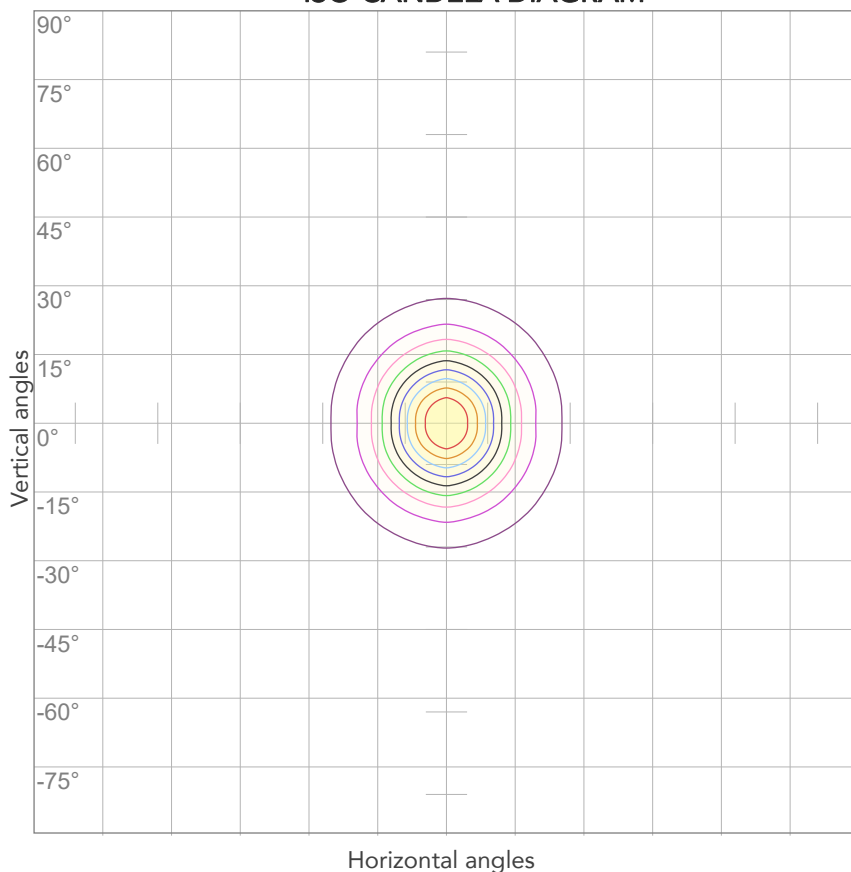
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,118A	18,4W	26lm/W

ISO CANDELA DIAGRAM



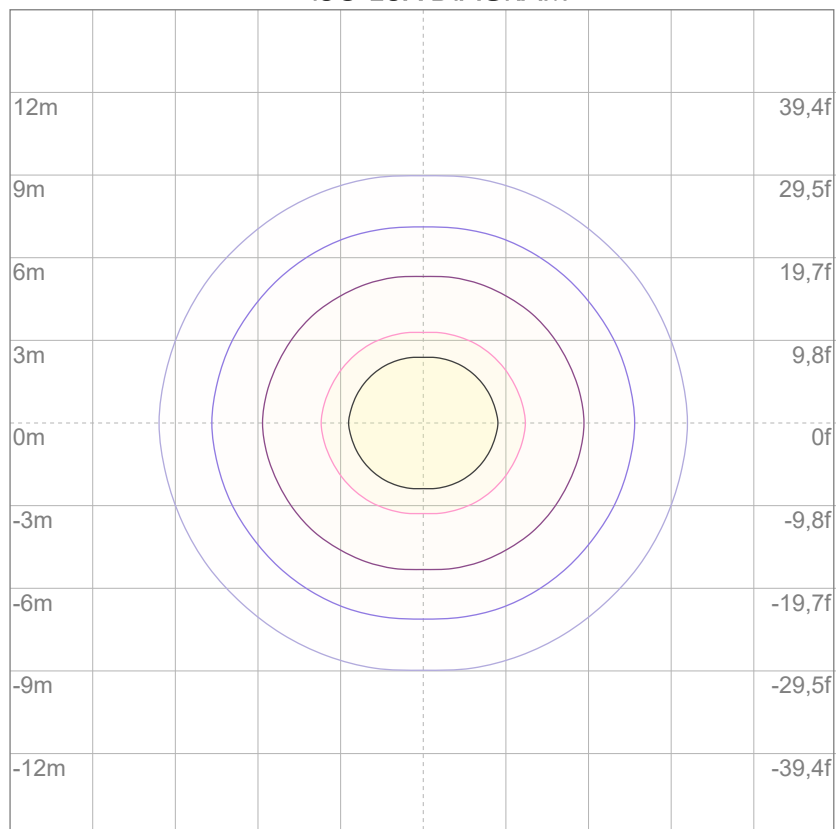
10%	132 cd
20%	263 cd
30%	395 cd
40%	526 cd
50%	658 cd
60%	789 cd
70%	921 cd
80%	1053 cd

Conditions:

Number of c-planes: 4

Candela at center: 1316 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 4

Lux at center: 13,2 lx

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

Total lumen output:

430 lm

Peak candela output:

472 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 40°

Target:

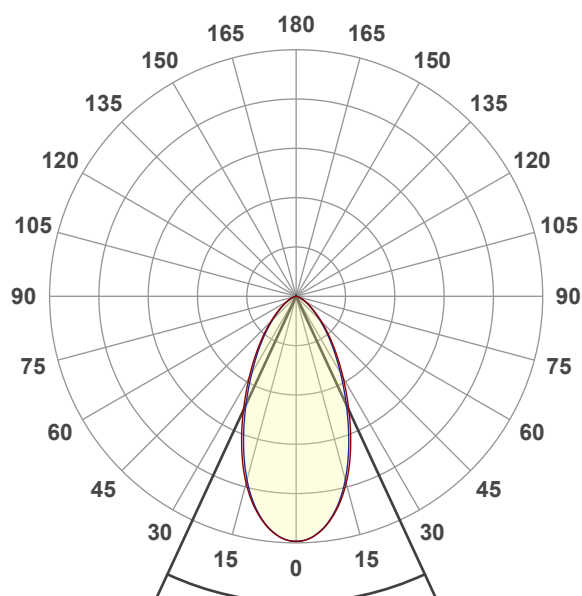
Red

Operator:

Paolo Carvone

Date and time:

24/03/2022 11:29:17

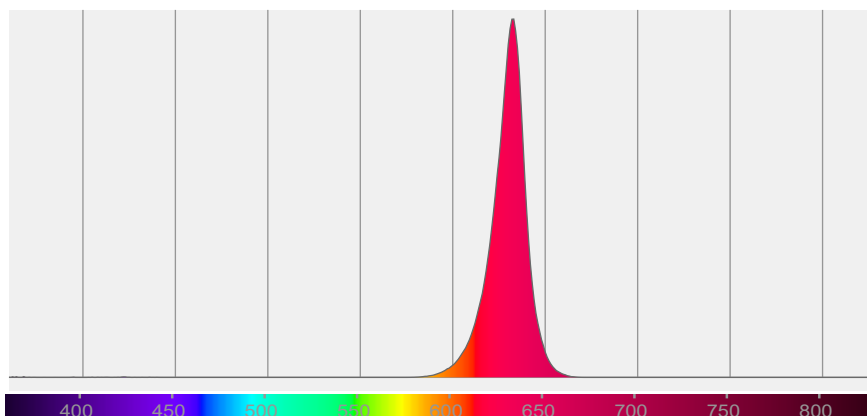


Beam angle 50%: 49,7°

Field angle 10%: 99,1°

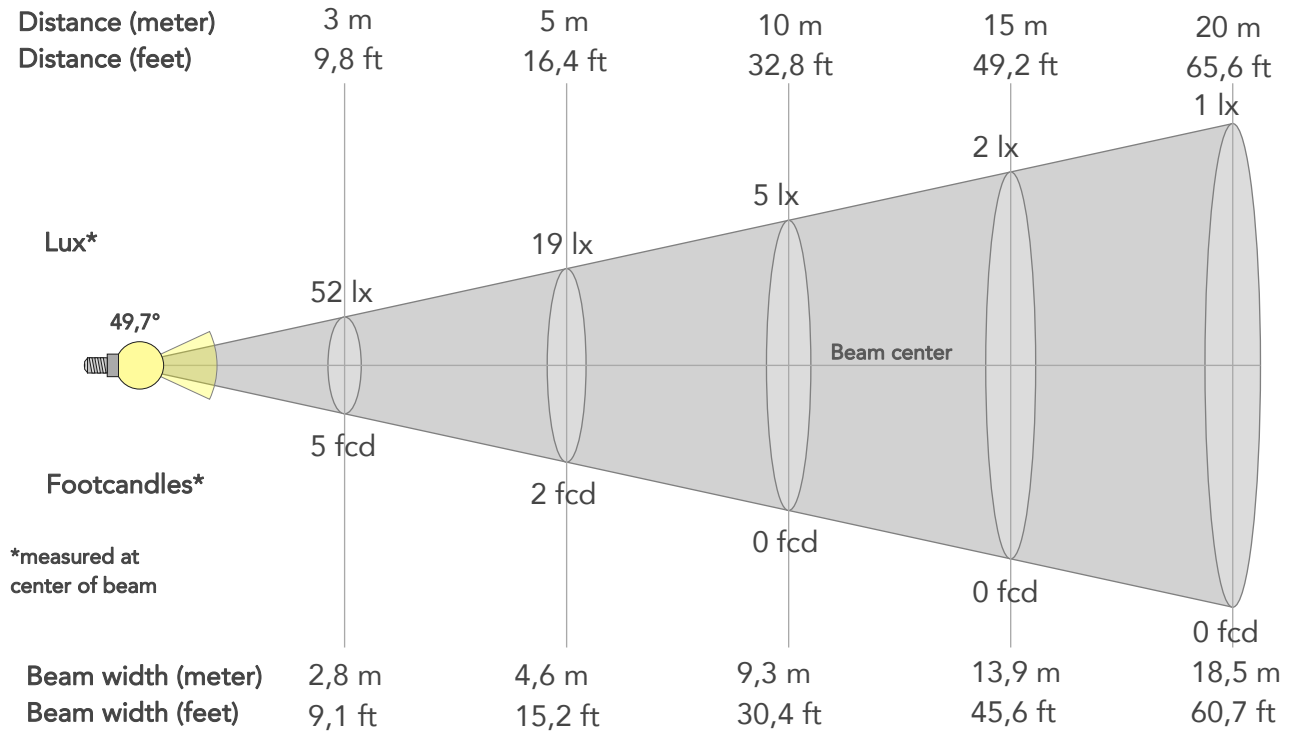
Cut off angle 2.5%: 131,4°

Spectra



BEAM DETAILS

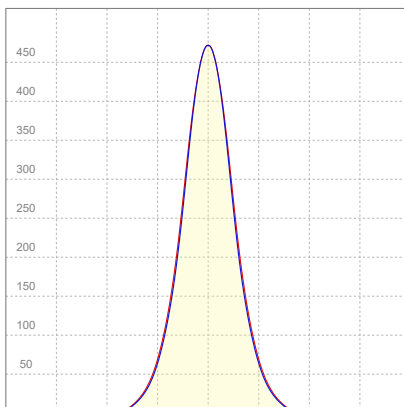
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,7°	99,1°	131,4°	96,3%	84,5%



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	472lx	118lx	52lx	29lx	19lx	8lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	44fcd	11fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,7m	4,6m	6,9m	9,3m	13,9m	18,5m	23,2m	27,8m	37m	46,3m
Beam wid.	3,1ft	6,1ft	9,1ft	12,1ft	15,2ft	22,8ft	30,4ft	45,6ft	60,7ft	75,9ft	91,1ft	121,5ft	151,9ft

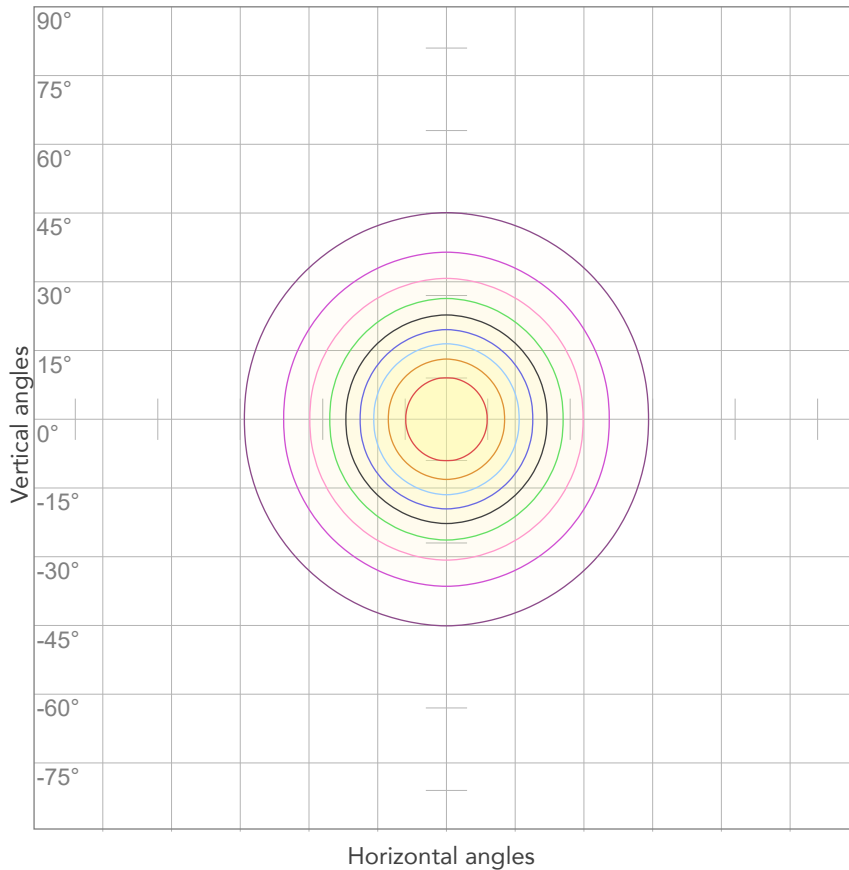
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,117A	18,1W	24lm/W

ISO CANDELA DIAGRAM



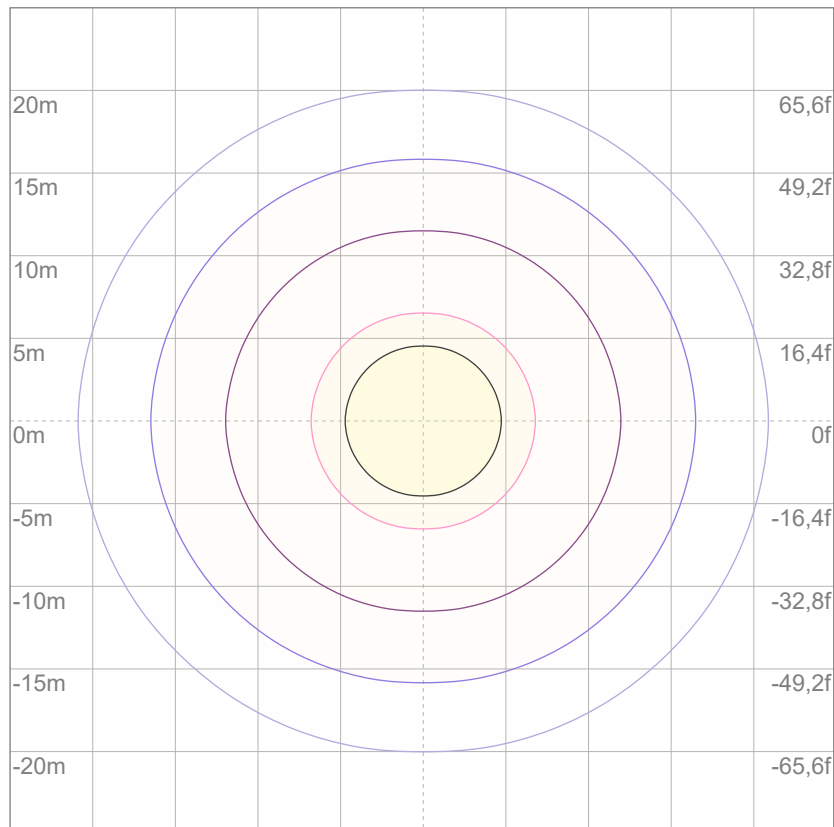
10%	47 cd
20%	94 cd
30%	141 cd
40%	189 cd
50%	236 cd
60%	283 cd
70%	330 cd
80%	377 cd

Conditions:

Number of c-planes: 4

Candela at center: 472 cd

ISO LUX DIAGRAM



3%	0,141 lx
5%	0,236 lx
10%	0,472 lx
30%	1,41 lx
50%	2,36 lx

Conditions:

Number of c-planes: 4

Lux at center: 4,72 lx

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

Total lumen output:

447 lm

Peak candela output:

356 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 60°

Target:

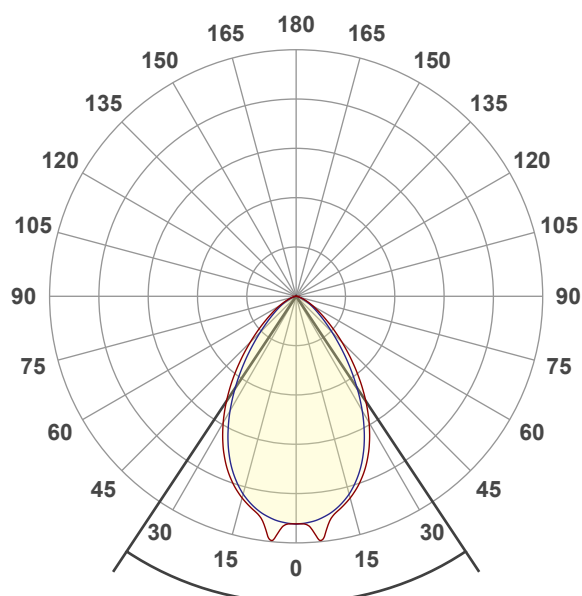
Red

Operator:

Paolo Carvone

Date and time:

23/03/2022 16:00:05

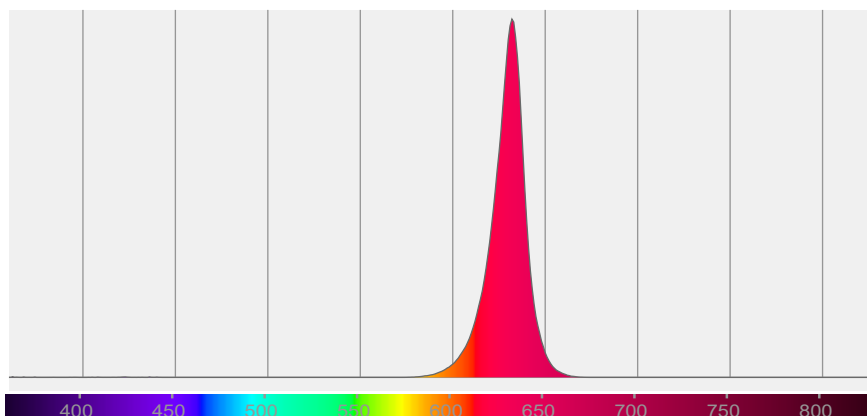


Beam angle 50%: 67,2°

Field angle 10%: 112,6°

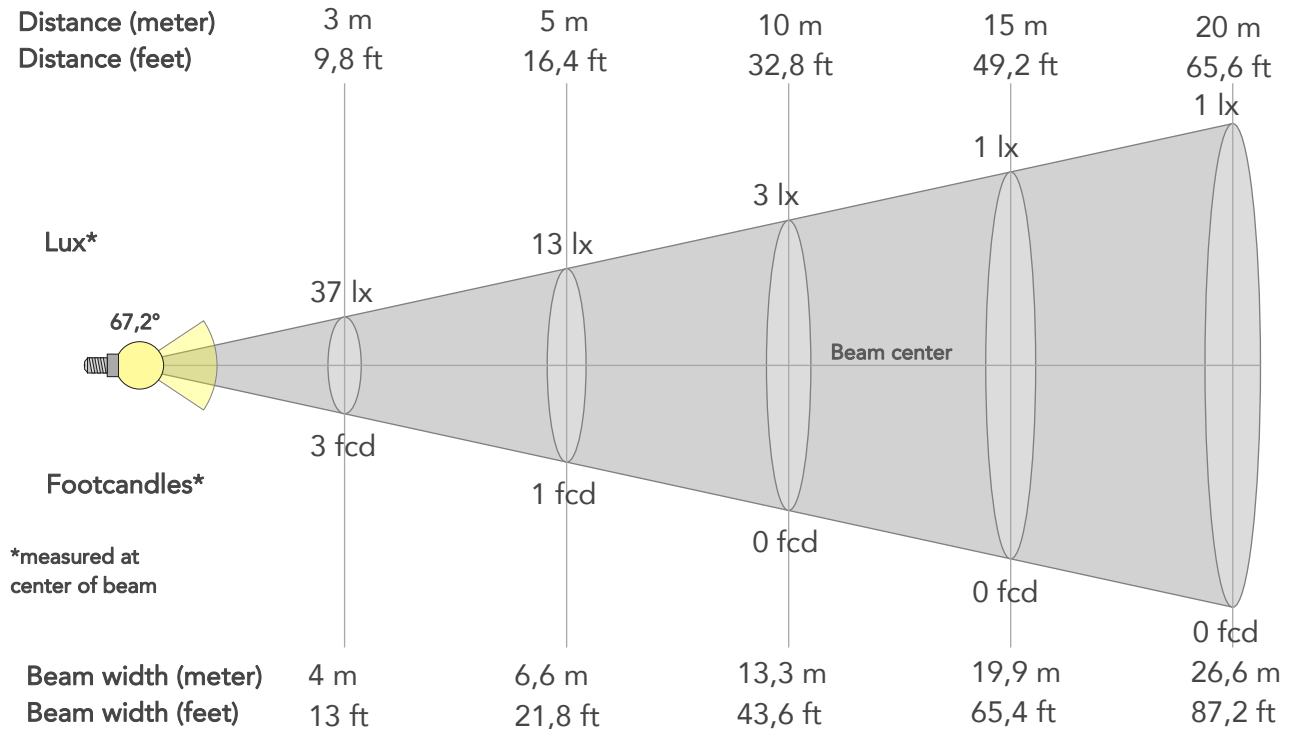
Cut off angle 2.5%: 140,7°

Spectra



BEAM DETAILS

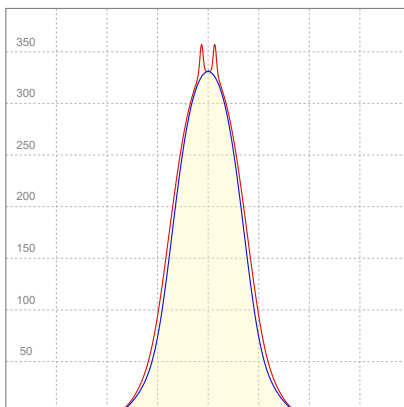
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
67,2°	112,6°	140,7°	95,3%	81,1%



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	331lx	83lx	37lx	21lx	13lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx	0lx
Footcand.	31fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,7m	4m	5,3m	6,6m	10m	13,3m	19,9m	26,6m	33,2m	39,9m	53,1m	66,4m
Beam wid.	4,4ft	8,8ft	13ft	17,4ft	21,8ft	32,7ft	43,6ft	65,4ft	87,2ft	108,9ft	130,7ft	174,3ft	217,9ft

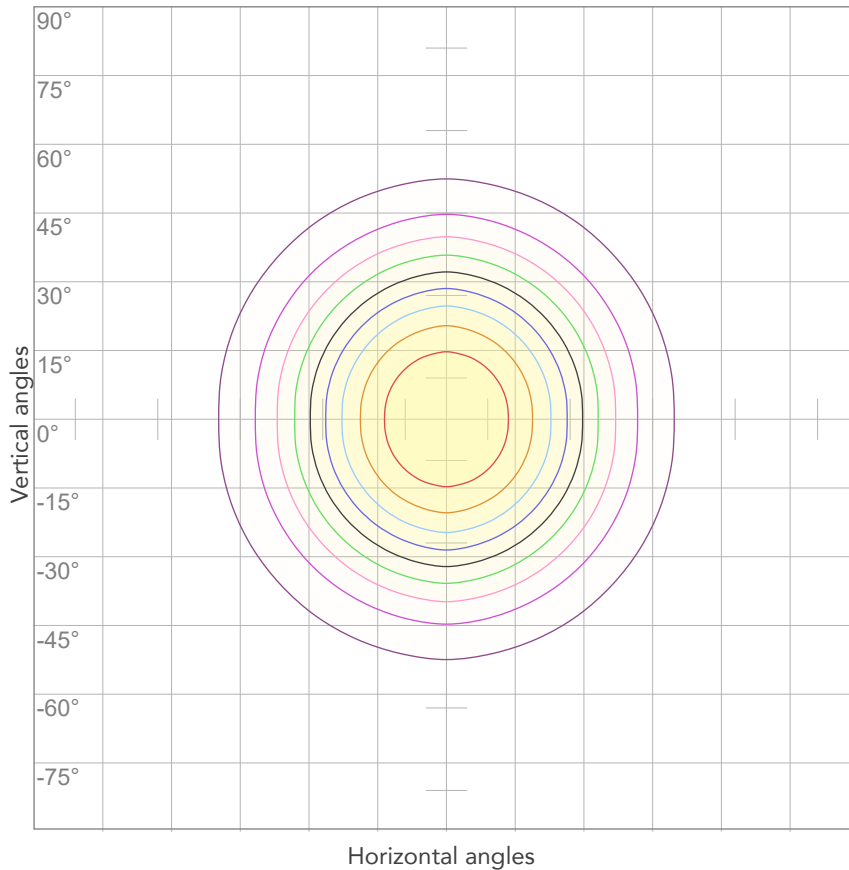
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,117A	18,2W	25lm/W

ISO CANDELA DIAGRAM



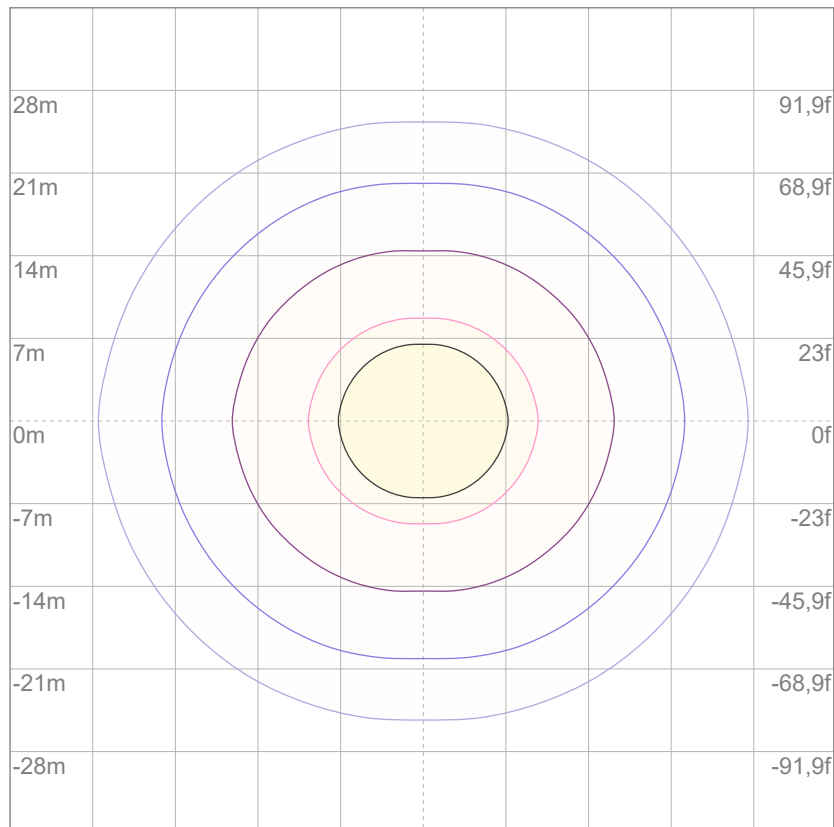
10%	33 cd
20%	66 cd
30%	99 cd
40%	132 cd
50%	165 cd
60%	199 cd
70%	232 cd
80%	265 cd

Conditions:

Number of c-planes: 4

Candela at center: 331 cd

ISO LUX DIAGRAM



3%	99,3m lx
5%	0,165 lx
10%	0,331 lx
30%	0,993 lx
50%	1,65 lx

Conditions:

Number of c-planes: 4

Lux at center: 3,31 lx

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

Total lumen output:

742 lm

Peak candela output:

860 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 10°x 60°

Target:

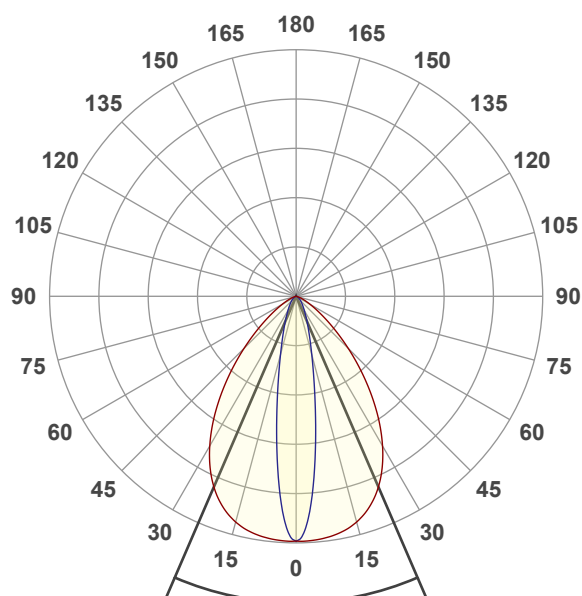
Red

Operator:

Paolo Carvone

Date and time:

24/03/2022 09:26:08

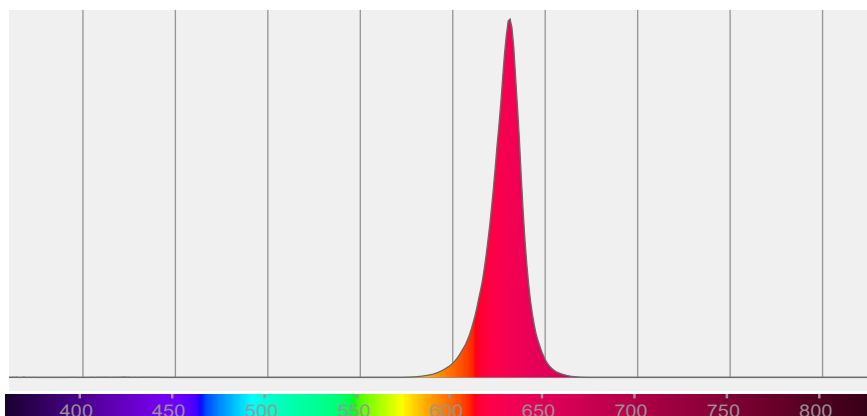


Beam angle 50%: 46,7°

Field angle 10%: 81°

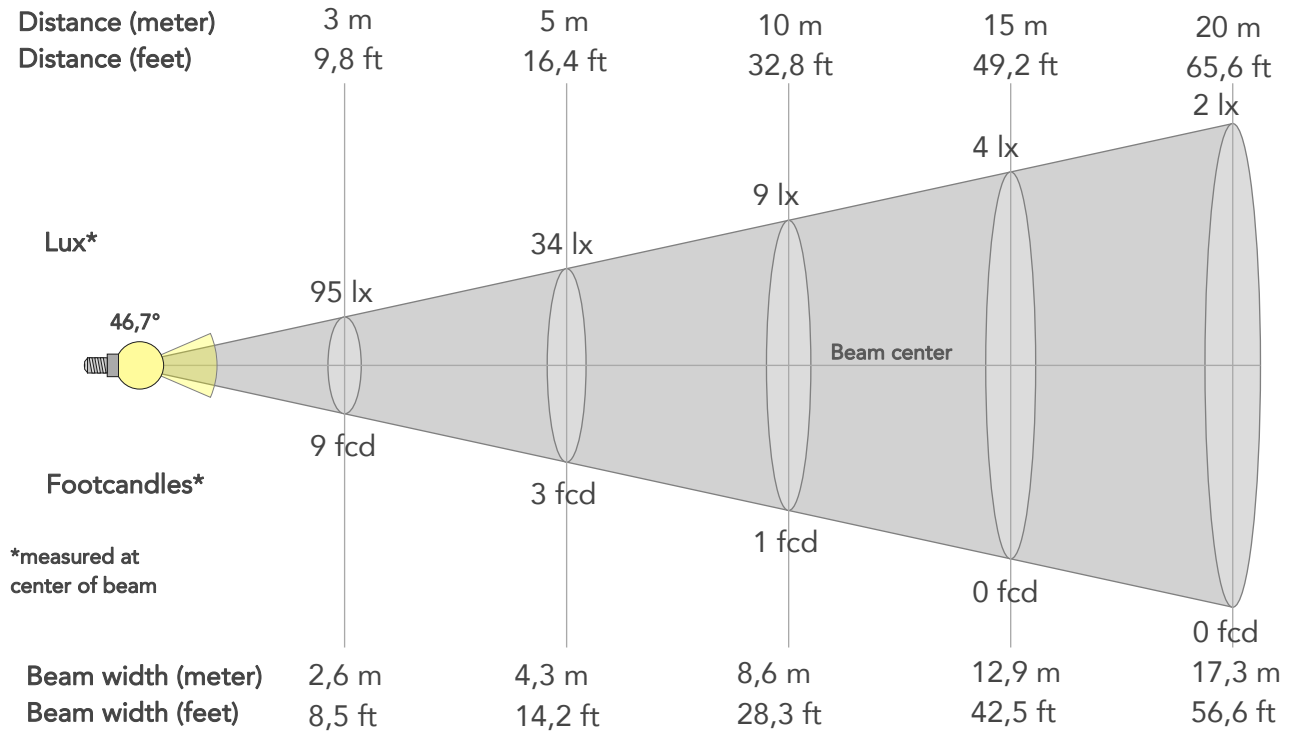
Cut off angle 2.5%: 113,4°

Spectra



BEAM DETAILS

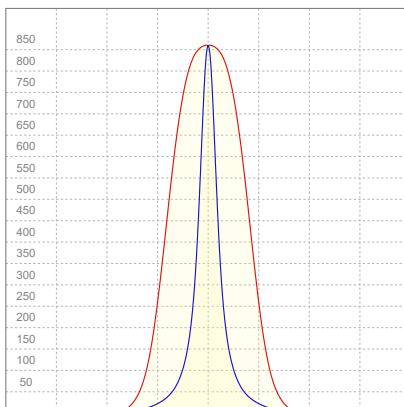
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46,7°	81°	113,4°	97,0%	83,8%



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	859lx	215lx	95lx	54lx	34lx	15lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	80fcd	20fcd	9fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,3m	6,5m	8,6m	12,9m	17,3m	21,6m	25,9m	34,5m	43,2m
Beam wid.	2,8ft	5,7ft	8,5ft	11,3ft	14,2ft	21,2ft	28,3ft	42,5ft	56,6ft	70,8ft	84,9ft	113,2ft	141,6ft

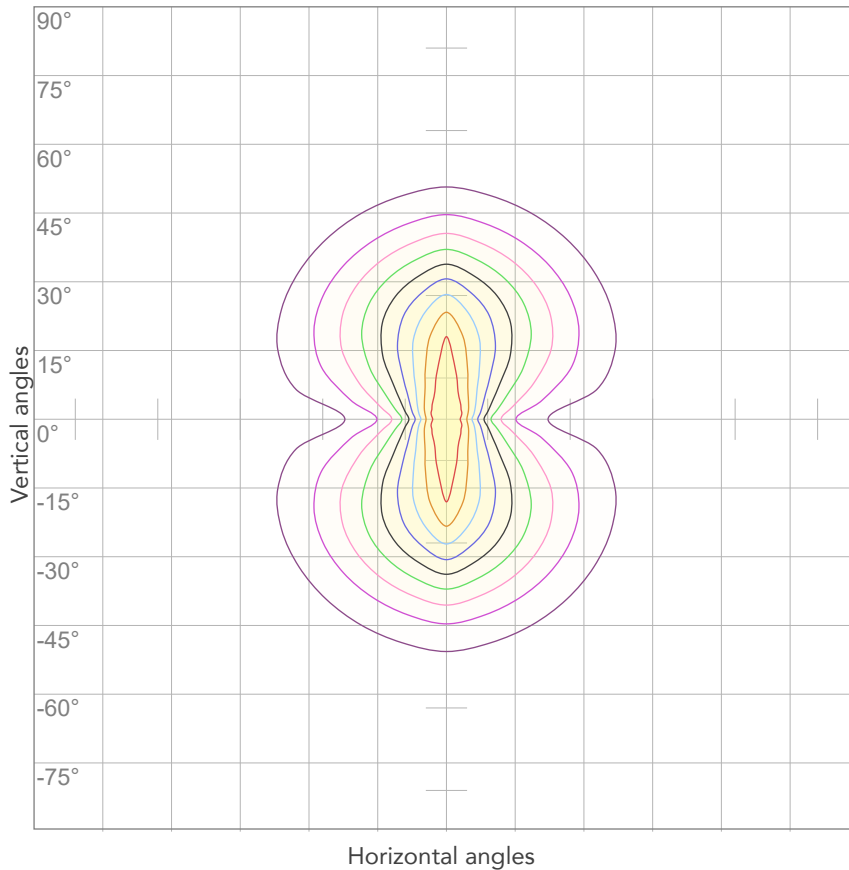
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,119A	18,5W	40lm/W

ISO CANDELA DIAGRAM



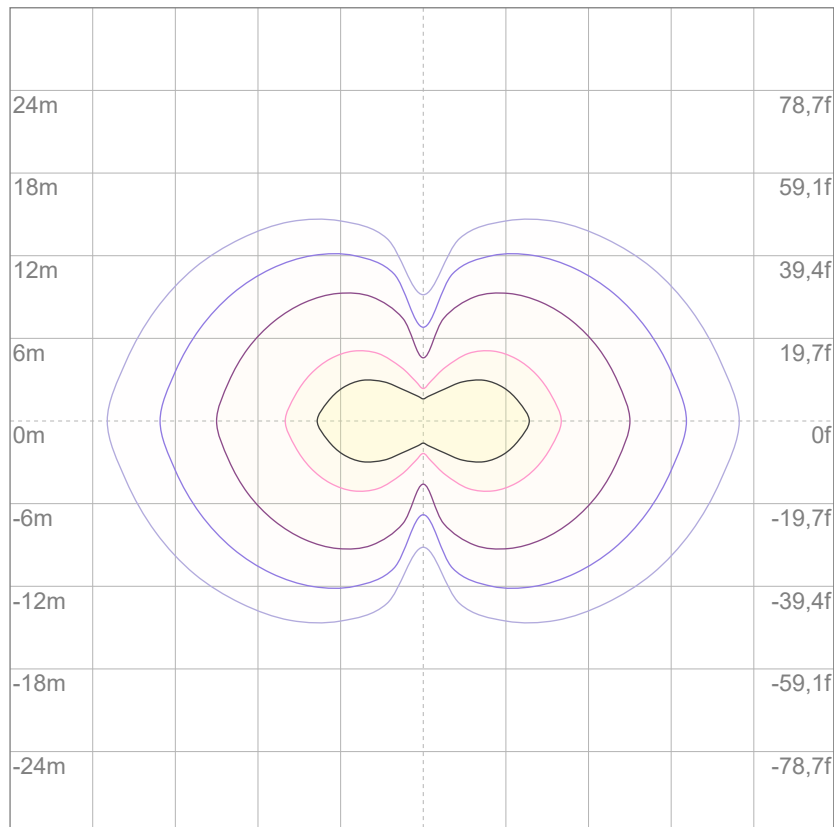
10%	86 cd
20%	172 cd
30%	258 cd
40%	344 cd
50%	430 cd
60%	515 cd
70%	601 cd
80%	687 cd

Conditions:

Number of c-planes: 4

Candela at center: 859 cd

ISO LUX DIAGRAM



3%	0,258 lx
5%	0,430 lx
10%	0,859 lx
30%	2,58 lx
50%	4,30 lx

Conditions:

Number of c-planes: 4

Lux at center: 8,59 lx

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

Total lumen output:

473 lm

Peak candela output:

567 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 30°x 60°

Target:

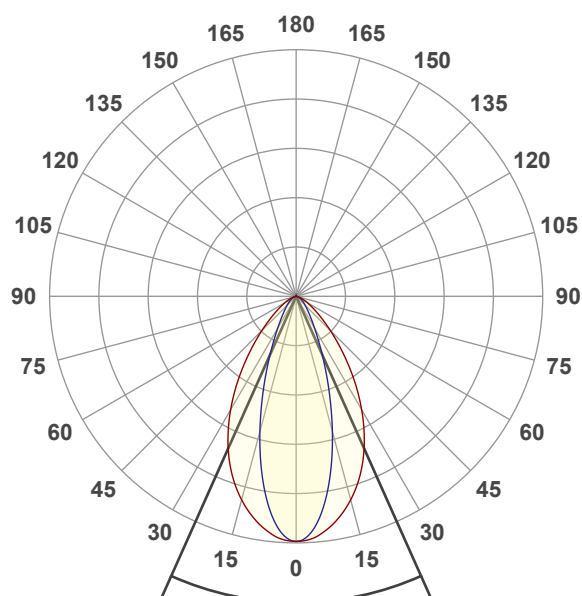
Red

Operator:

Paolo Carvone

Date and time:

24/03/2022 12:49:05

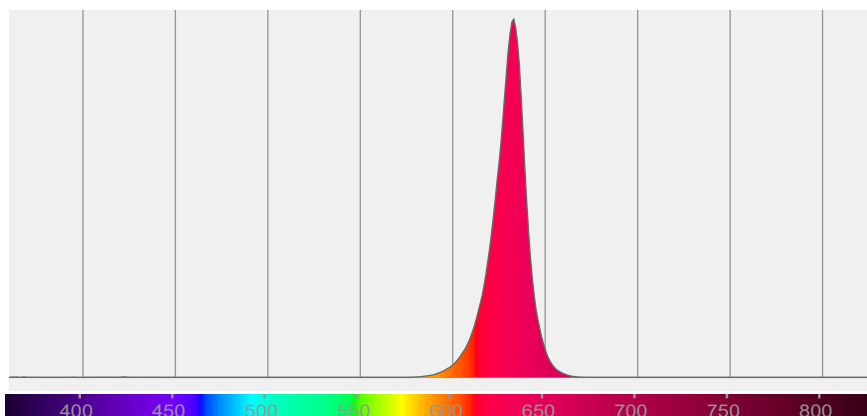


Beam angle 50%: 48,1°

Field angle 10%: 88,1°

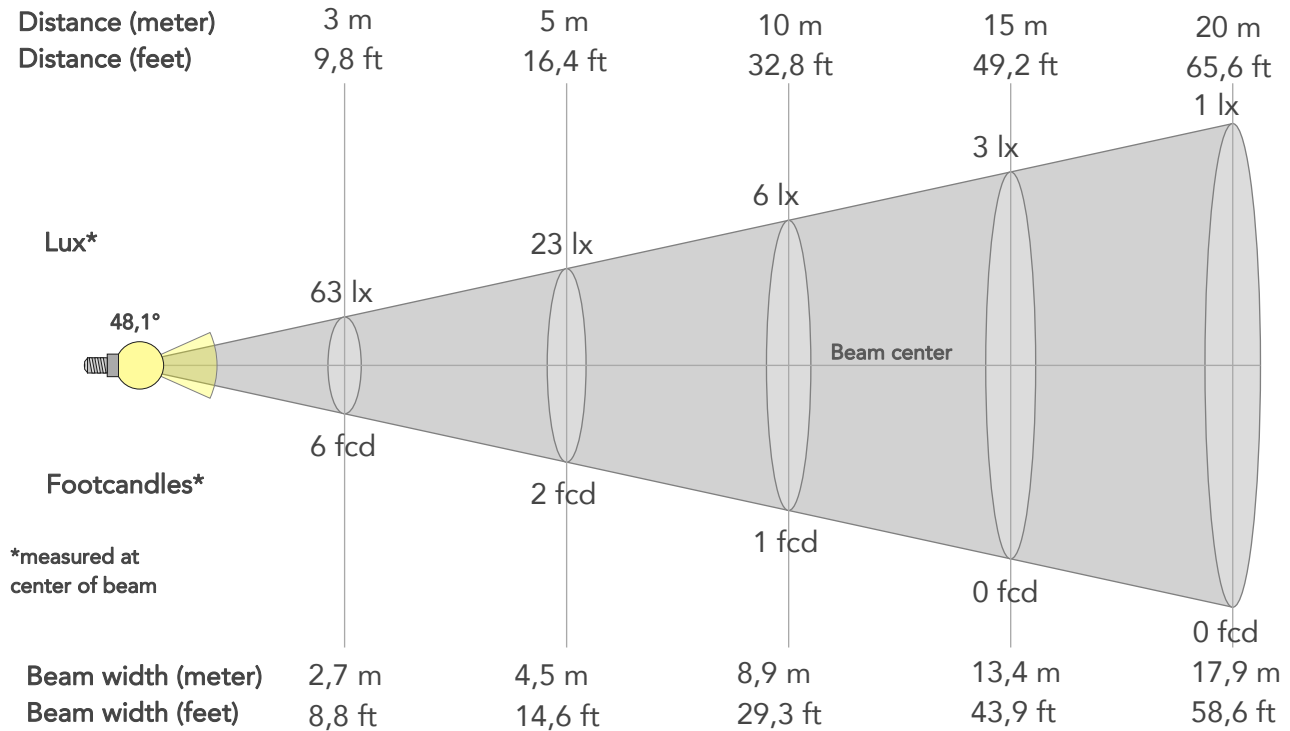
Cut off angle 2.5%: 125,6°

Spectra



BEAM DETAILS

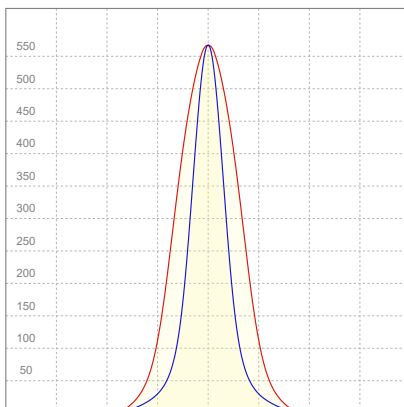
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,1°	88,1°	125,6°	96,1%	84,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	567lx	142lx	63lx	35lx	23lx	10lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	53fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,7m	8,9m	13,4m	17,9m	22,3m	26,8m	35,7m	44,7m
Beam wid.	2,9ft	5,9ft	8,8ft	11,7ft	14,6ft	22ft	29,3ft	43,9ft	58,6ft	73,2ft	87,9ft	117,2ft	146,5ft

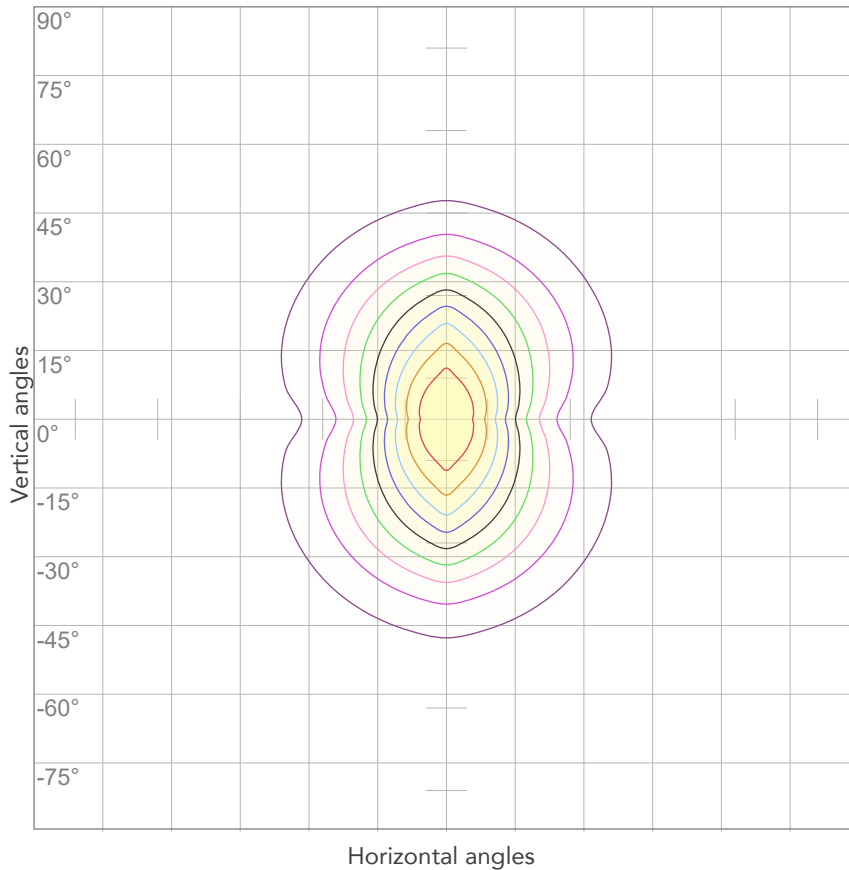
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,117A	18,1W	26lm/W

ISO CANDELA DIAGRAM



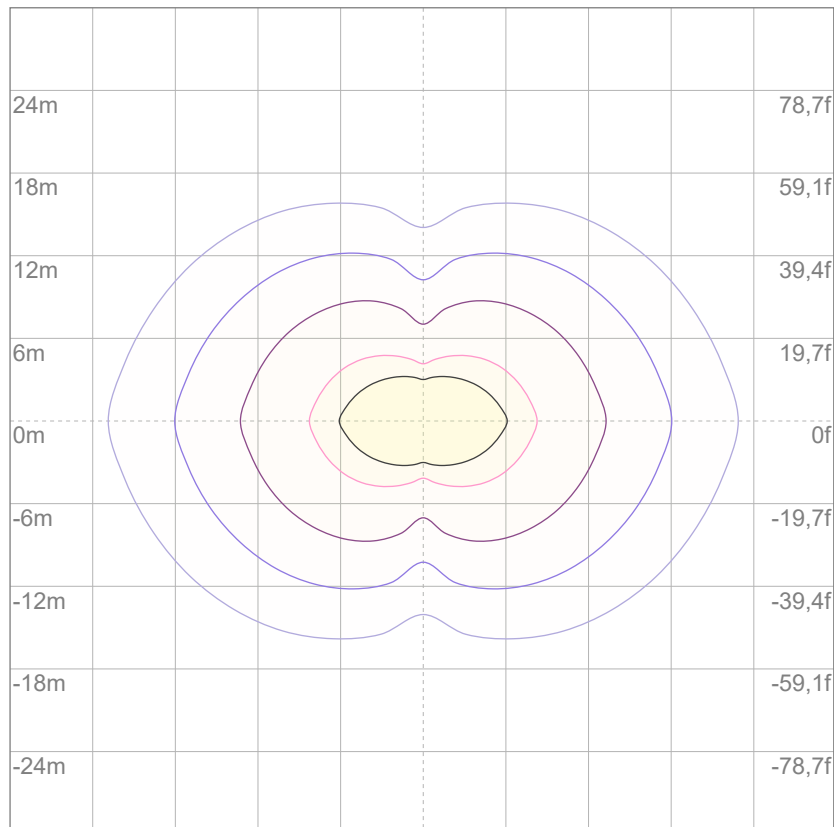
10%	57 cd
20%	113 cd
30%	170 cd
40%	227 cd
50%	283 cd
60%	340 cd
70%	397 cd
80%	454 cd

Conditions:

Number of c-planes: 4

Candela at center: 567 cd

ISO LUX DIAGRAM



3%	0,170 lx
5%	0,283 lx
10%	0,567 lx
30%	1,70 lx
50%	2,83 lx

Conditions:

Number of c-planes: 4

Lux at center: 5,67 lx

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

Total lumen output:

969 lm

Peak candela output:

13455 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8° (Native Optic)

Target:

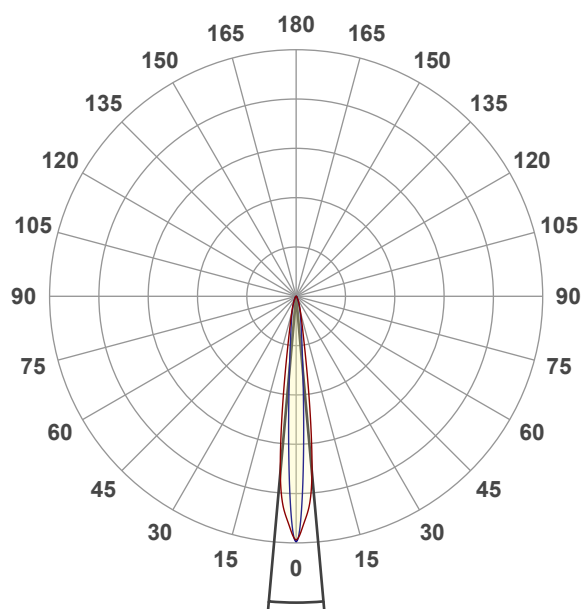
Green

Operator:

Paolo Carvone

Date and time:

23/03/2022 11:44:35

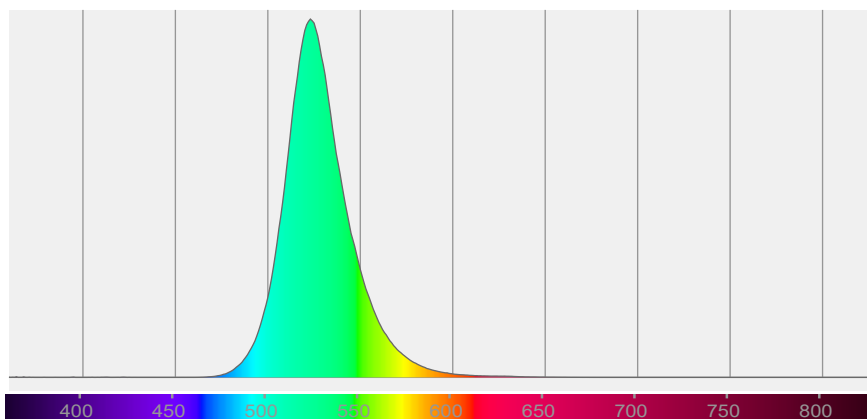


Beam angle 50%: 10,2°

Field angle 10%: 23,7°

Cut off angle 2.5%: 45,5°

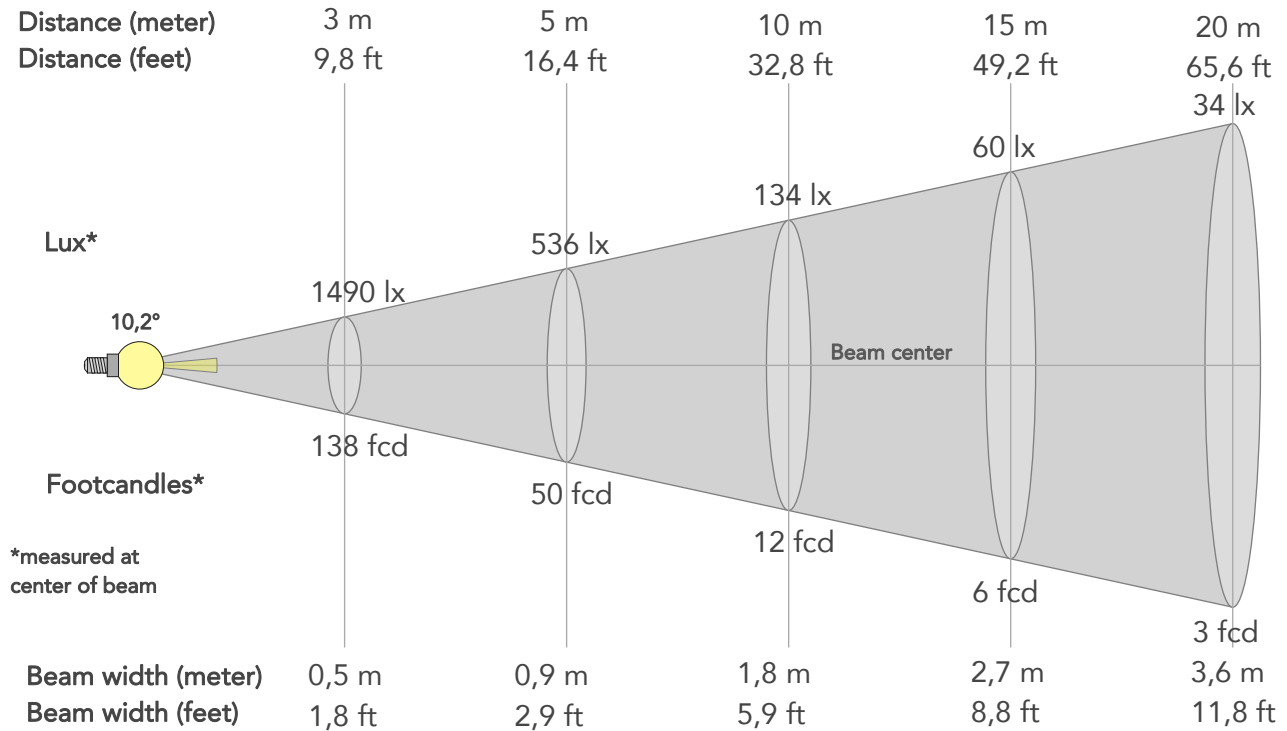
Spectra



BEAM DETAILS



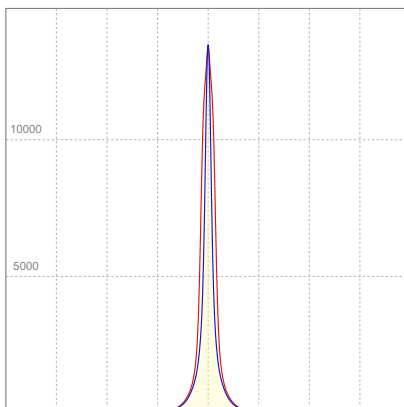
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,2°	23,7°	45,5°	99,9%	97,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	13409lx	3352lx	1490lx	838lx	536lx	238lx	134lx	60lx	34lx	21lx	15lx	8lx	5lx
Footcand.	1246fcd	311fcd	138fcd	78fcd	50fcd	22fcd	12fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,2m	0,4m	0,5m	0,7m	0,9m	1,3m	1,8m	2,7m	3,6m	4,5m	5,4m	7,2m	9m
Beam wid.	0,6ft	1,2ft	1,8ft	2,3ft	2,9ft	4,4ft	5,9ft	8,8ft	11,8ft	14,7ft	17,6ft	23,5ft	29,4ft

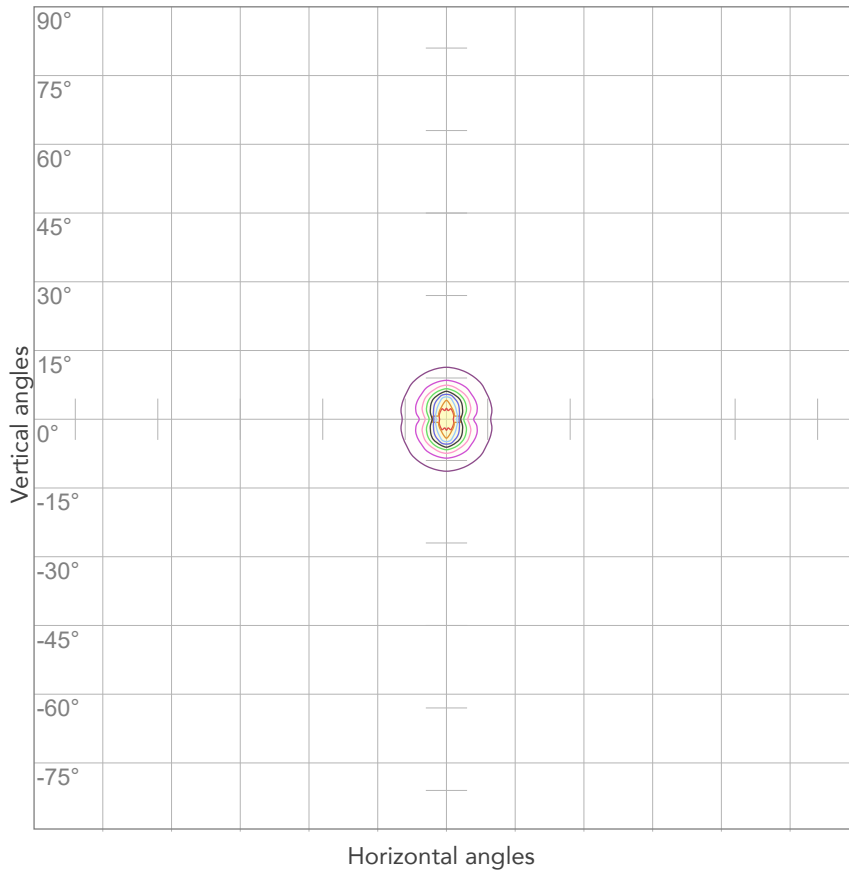
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,137A	22,8W	42lm/W

ISO CANDELA DIAGRAM



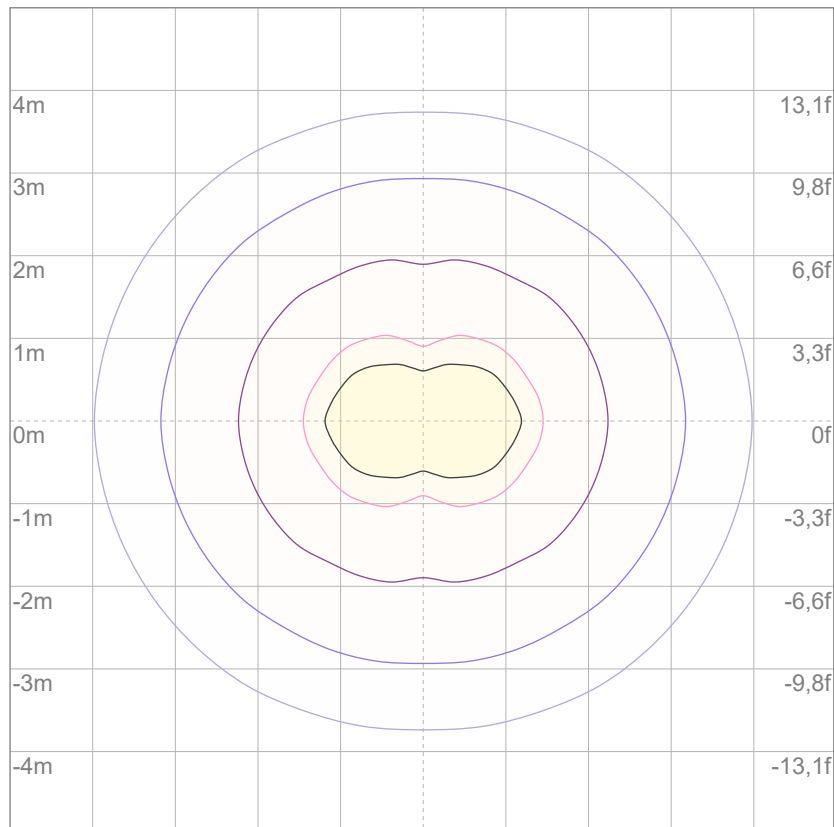
10%	1341 cd
20%	2682 cd
30%	4023 cd
40%	5364 cd
50%	6705 cd
60%	8046 cd
70%	9386 cd
80%	10727 cd

Conditions:

Number of c-planes: 4

Candela at center: 13409 cd

ISO LUX DIAGRAM



3%	4,02 lx
5%	6,70 lx
10%	13,4 lx
30%	40,2 lx
50%	67,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 134 lx

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

Total lumen output:

921 lm

Peak candela output:

2475 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 20°

Target:

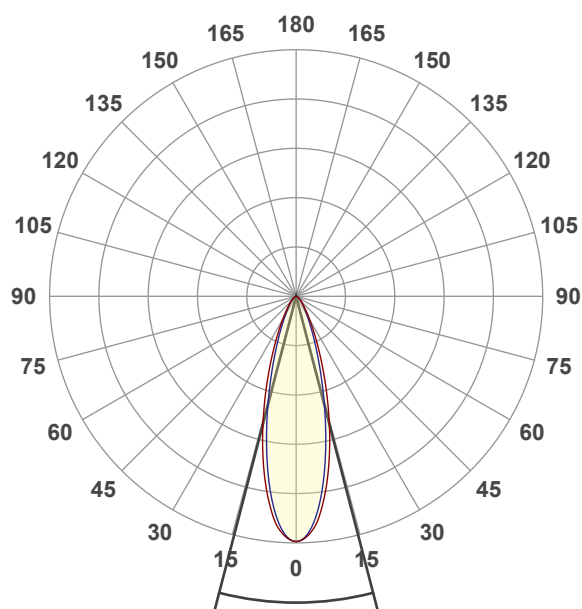
Green

Operator:

Paolo Carvone

Date and time:

23/03/2022 15:34:21

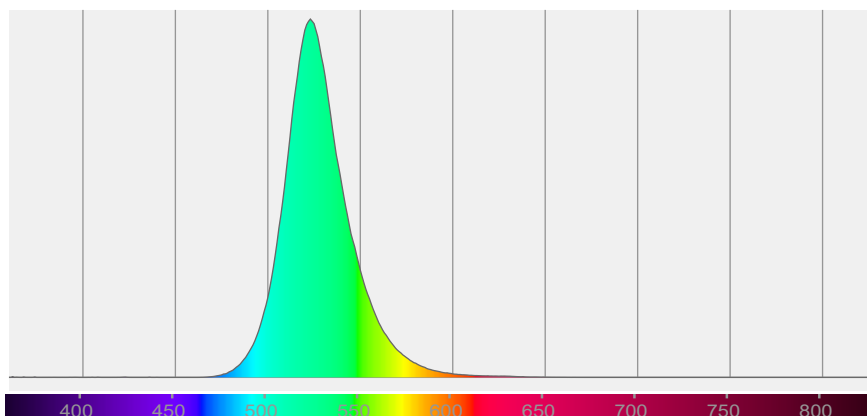


Beam angle 50%: 29,1°

Field angle 10%: 59,7°

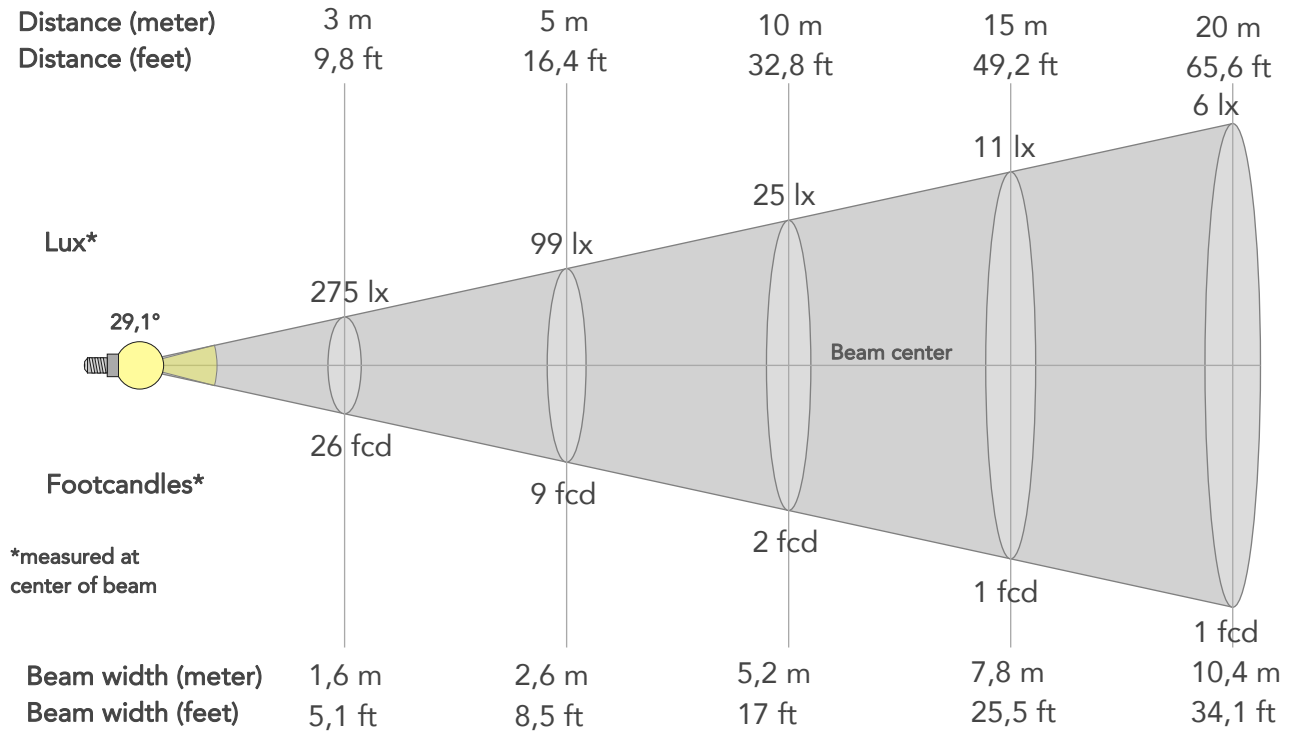
Cut off angle 2.5%: 93,3°

Spectra



BEAM DETAILS

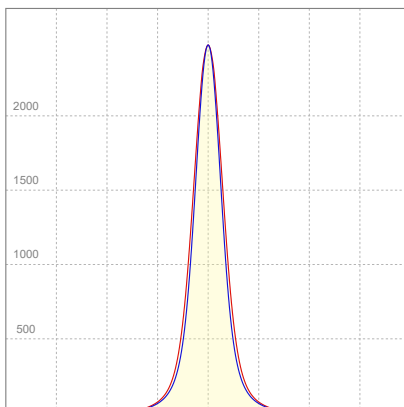
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29,1°	59,7°	93,3°	98,3%	92,4%



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	2475lx	619lx	275lx	155lx	99lx	44lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	230fcd	57fcd	26fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,6m	2,1m	2,6m	3,9m	5,2m	7,8m	10,4m	13m	15,6m	20,8m	26m
Beam wid.	1,7ft	3,4ft	5,1ft	6,8ft	8,5ft	12,8ft	17ft	25,5ft	34,1ft	42,6ft	51,1ft	68,1ft	85,2ft

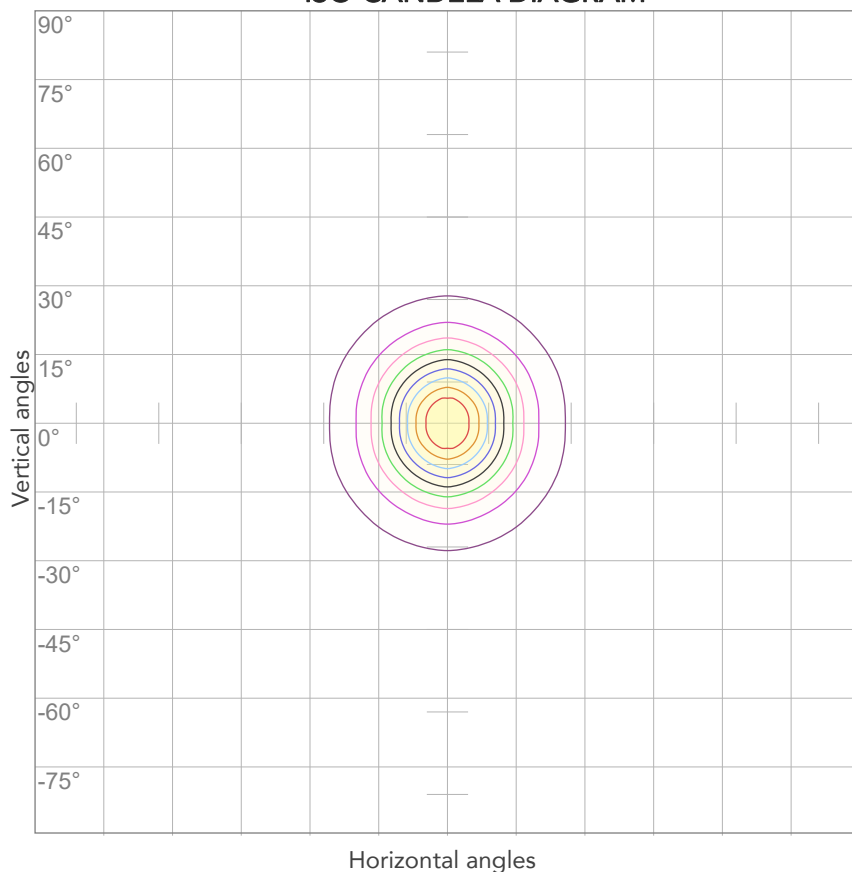
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
221V	0,138A	22,8W	40lm/W

ISO CANDELA DIAGRAM



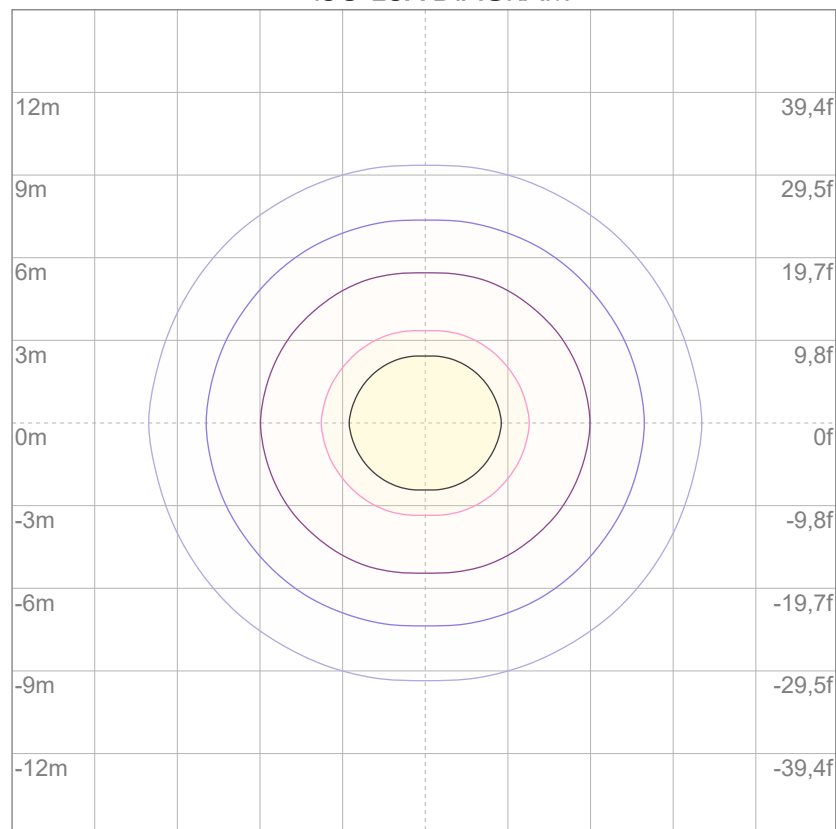
10%	247 cd
20%	495 cd
30%	742 cd
40%	990 cd
50%	1237 cd
60%	1485 cd
70%	1732 cd
80%	1980 cd

Conditions:

Number of c-planes: 4

Candela at center: 2475 cd

ISO LUX DIAGRAM



3%	0,742 lx
5%	1,24 lx
10%	2,47 lx
30%	7,42 lx
50%	12,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 24,7 lx

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

Total lumen output:

906 lm

Peak candela output:

947 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 40°

Target:

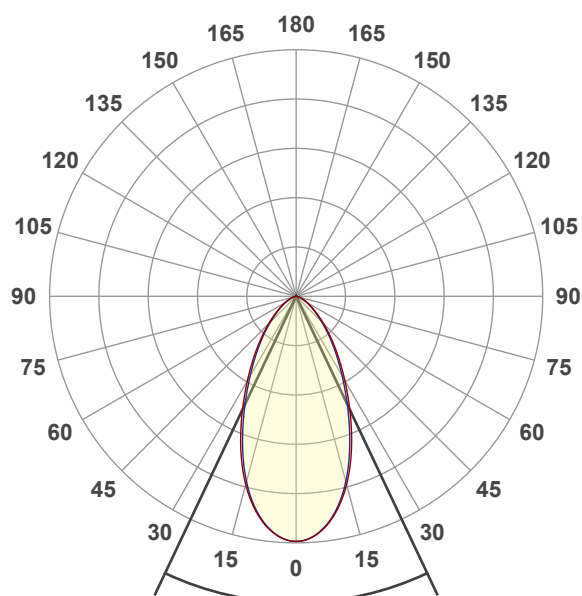
Green

Operator:

Paolo Carvone

Date and time:

24/03/2022 11:33:15

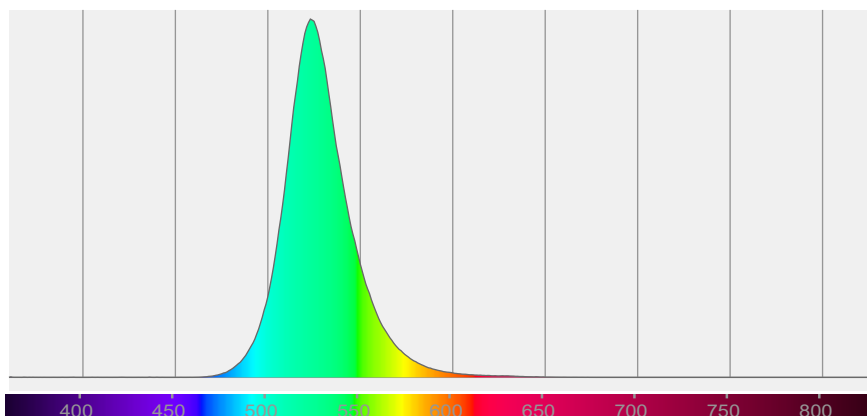


Beam angle 50%: 50,7°

Field angle 10%: 102°

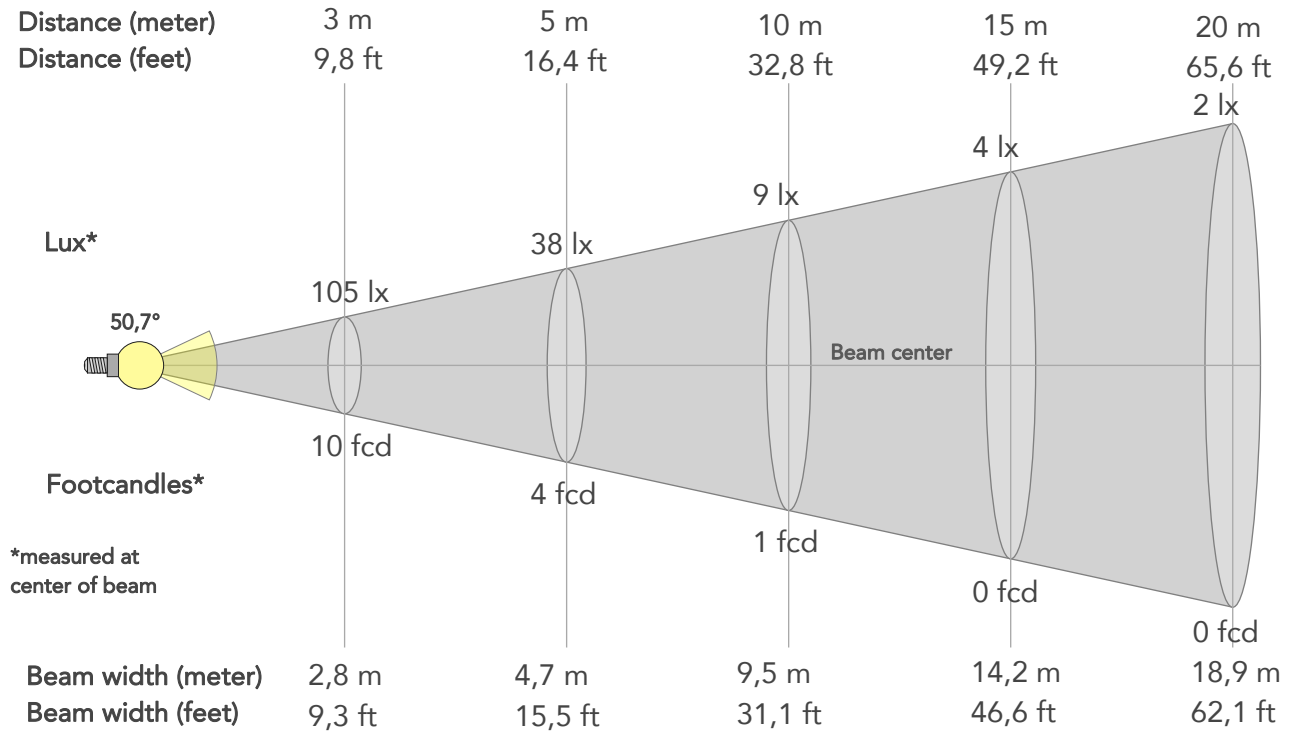
Cut off angle 2.5%: 135,7°

Spectra



BEAM DETAILS

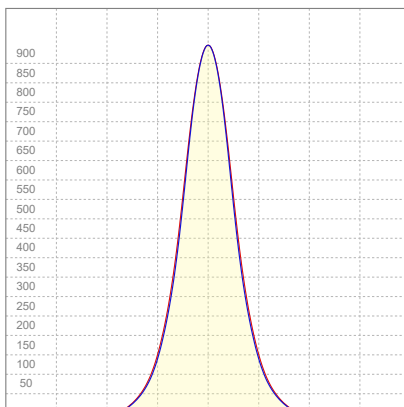
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50,7°	102°	135,7°	95,3%	82,7%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	946lx	237lx	105lx	59lx	38lx	17lx	9lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	88fcd	22fcd	10fcd	5fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,8m	4,7m	7,1m	9,5m	14,2m	18,9m	23,7m	28,4m	37,9m	47,3m
Beam wid.	3,1ft	6,2ft	9,3ft	12,4ft	15,5ft	23,3ft	31,1ft	46,6ft	62,1ft	77,6ft	93,2ft	124,2ft	155,3ft

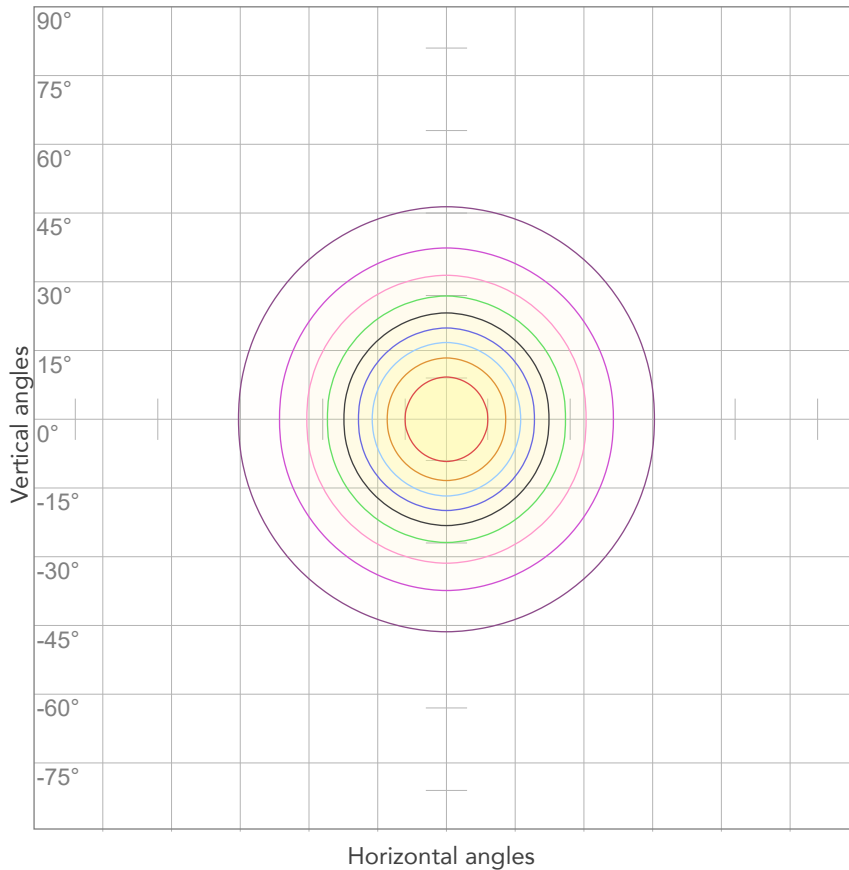
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,136A	22,4W	40lm/W

ISO CANDELA DIAGRAM



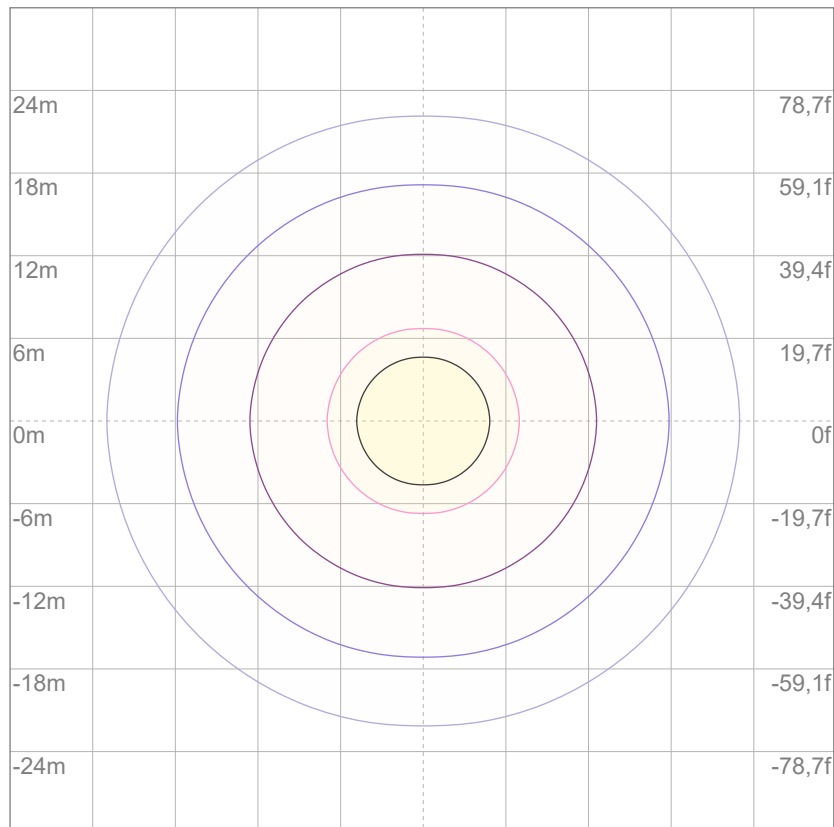
10%	95 cd
20%	189 cd
30%	284 cd
40%	379 cd
50%	473 cd
60%	568 cd
70%	662 cd
80%	757 cd

Conditions:

Number of c-planes: 4

Candela at center: 946 cd

ISO LUX DIAGRAM



3%	0,284 lx
5%	0,473 lx
10%	0,946 lx
30%	2,84 lx
50%	4,73 lx

Conditions:

Number of c-planes: 4

Lux at center: 9,46 lx

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

Total lumen output:

894 lm

Peak candela output:

687 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 60°

Target:

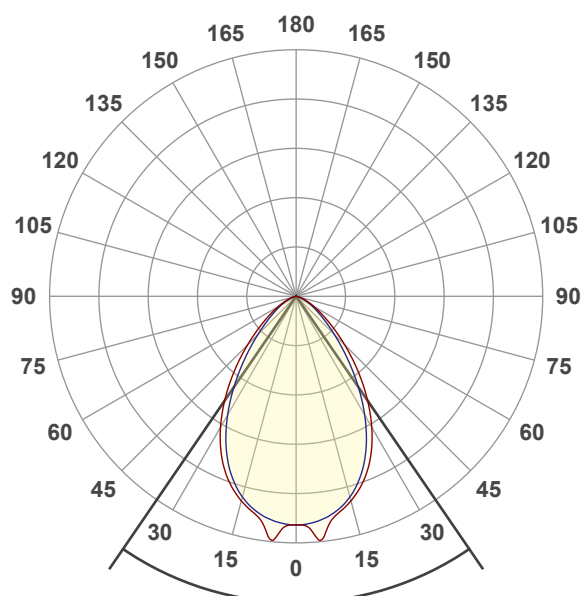
Green

Operator:

Paolo Carvone

Date and time:

23/03/2022 16:03:49

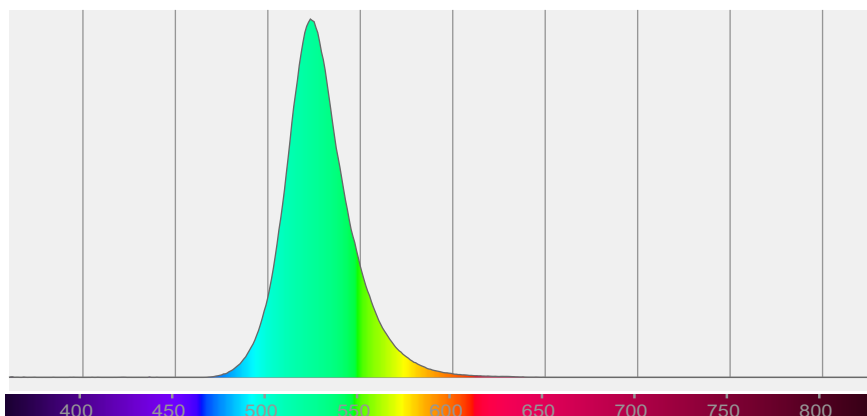


Beam angle 50%: 68,8°

Field angle 10%: 114,3°

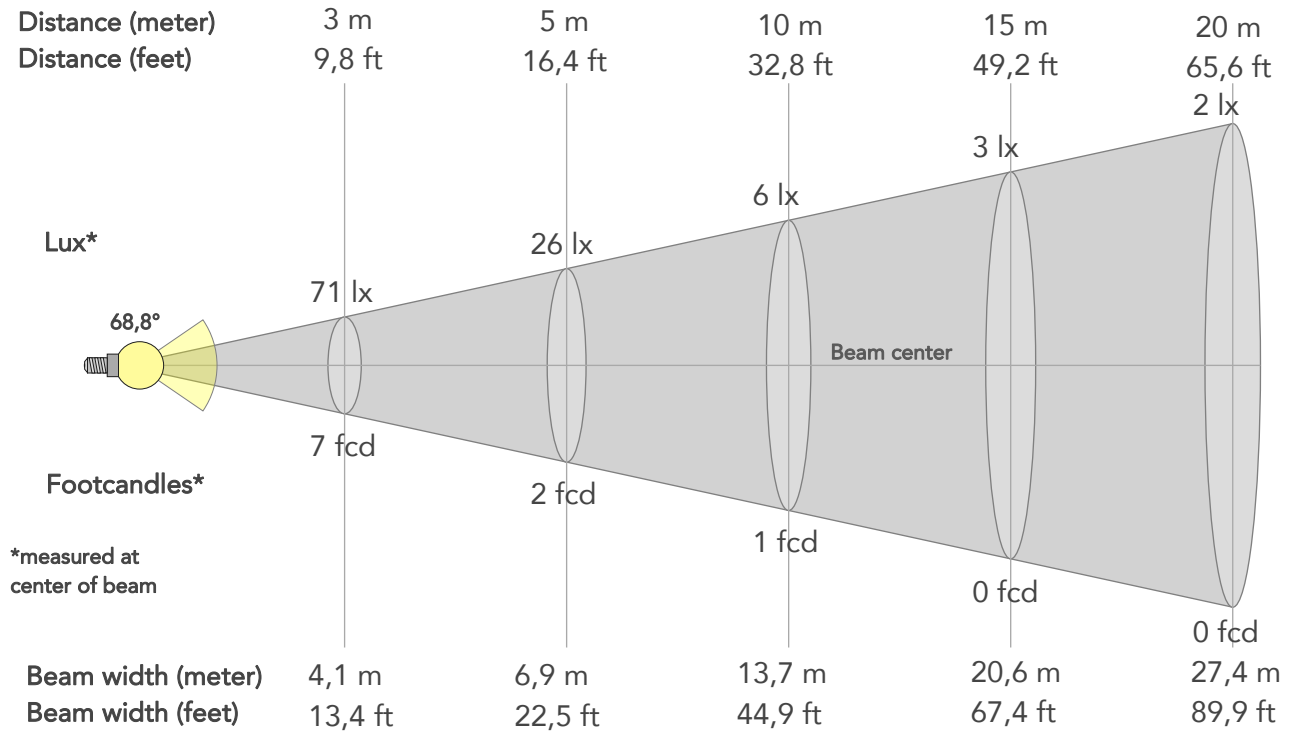
Cut off angle 2.5%: 141,1°

Spectra



BEAM DETAILS

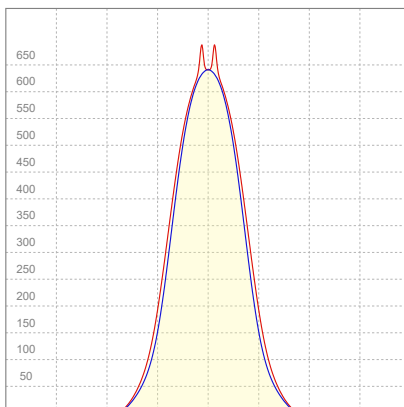
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
68,8°	114,3°	141,1°	95,3%	80,7%



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	641lx	160lx	71lx	40lx	26lx	11lx	6lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	60fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,7m	4,1m	5,5m	6,9m	10,3m	13,7m	20,6m	27,4m	34,3m	41,1m	54,8m	68,5m
Beam wid.	4,5ft	9ft	13,4ft	17,9ft	22,5ft	33,7ft	44,9ft	67,4ft	89,9ft	112,3ft	134,8ft	179,7ft	224,7ft

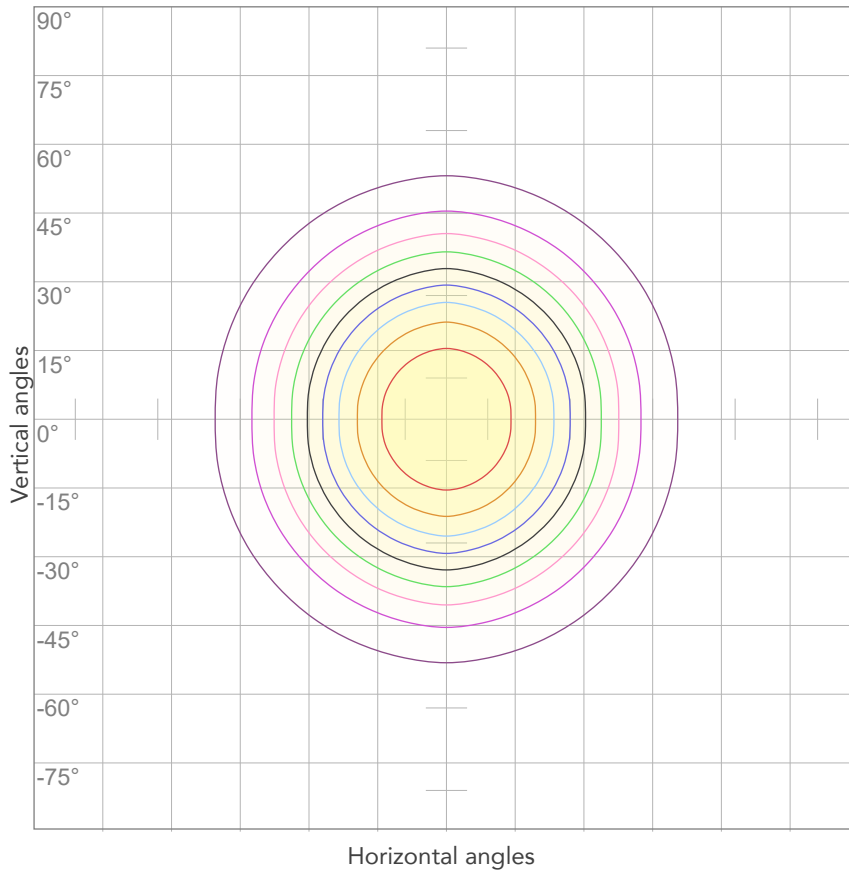
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,136A	22,5W	40lm/W

ISO CANDELA DIAGRAM



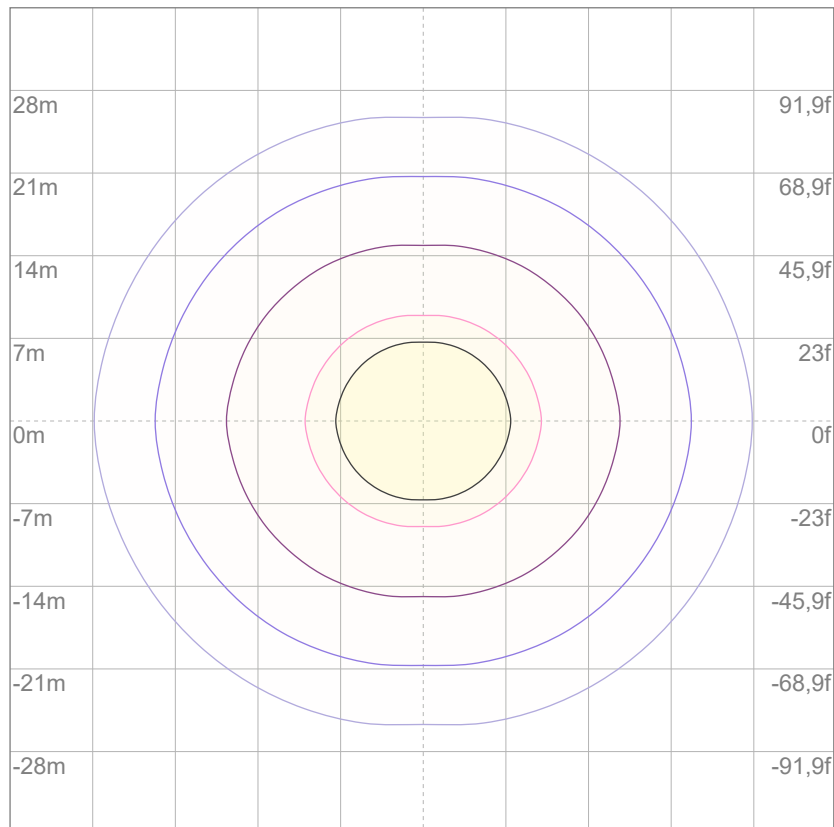
10%	64 cd
20%	128 cd
30%	192 cd
40%	256 cd
50%	320 cd
60%	384 cd
70%	448 cd
80%	513 cd

Conditions:

Number of c-planes: 4

Candela at center: 641 cd

ISO LUX DIAGRAM



3%	0,192 lx
5%	0,320 lx
10%	0,641 lx
30%	1,92 lx
50%	3,20 lx

Conditions:

Number of c-planes: 4

Lux at center: 6,41 lx

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

Total lumen output:

1409 lm

Peak candela output:

1571 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 10°x 60°

Target:

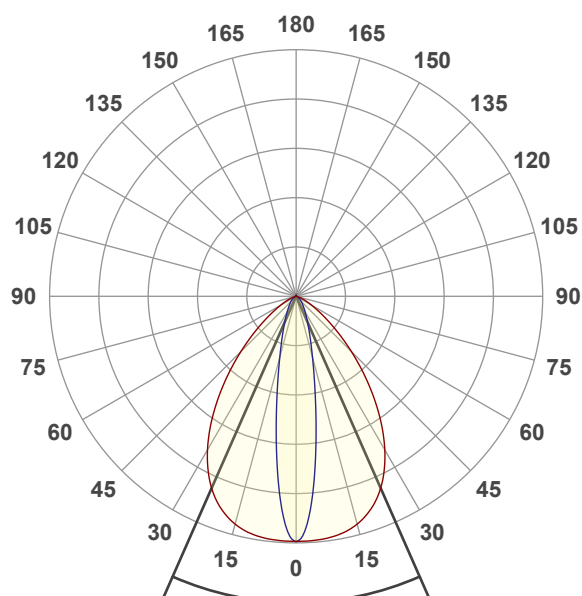
Green

Operator:

Paolo Carvone

Date and time:

24/03/2022 09:28:35

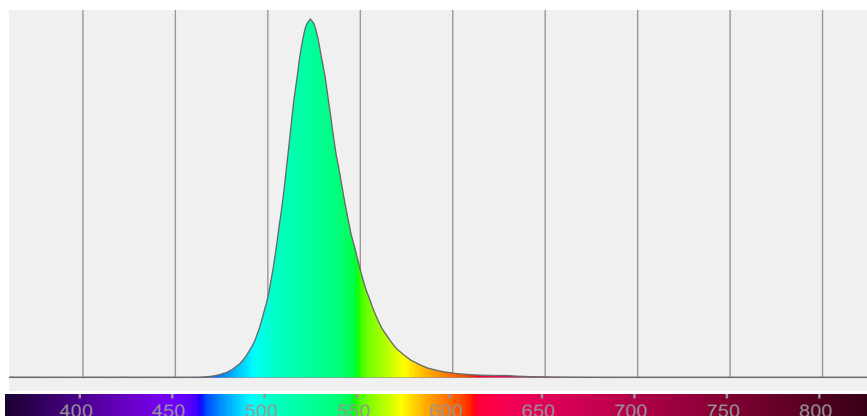


Beam angle 50%: 47,6°

Field angle 10%: 82,9°

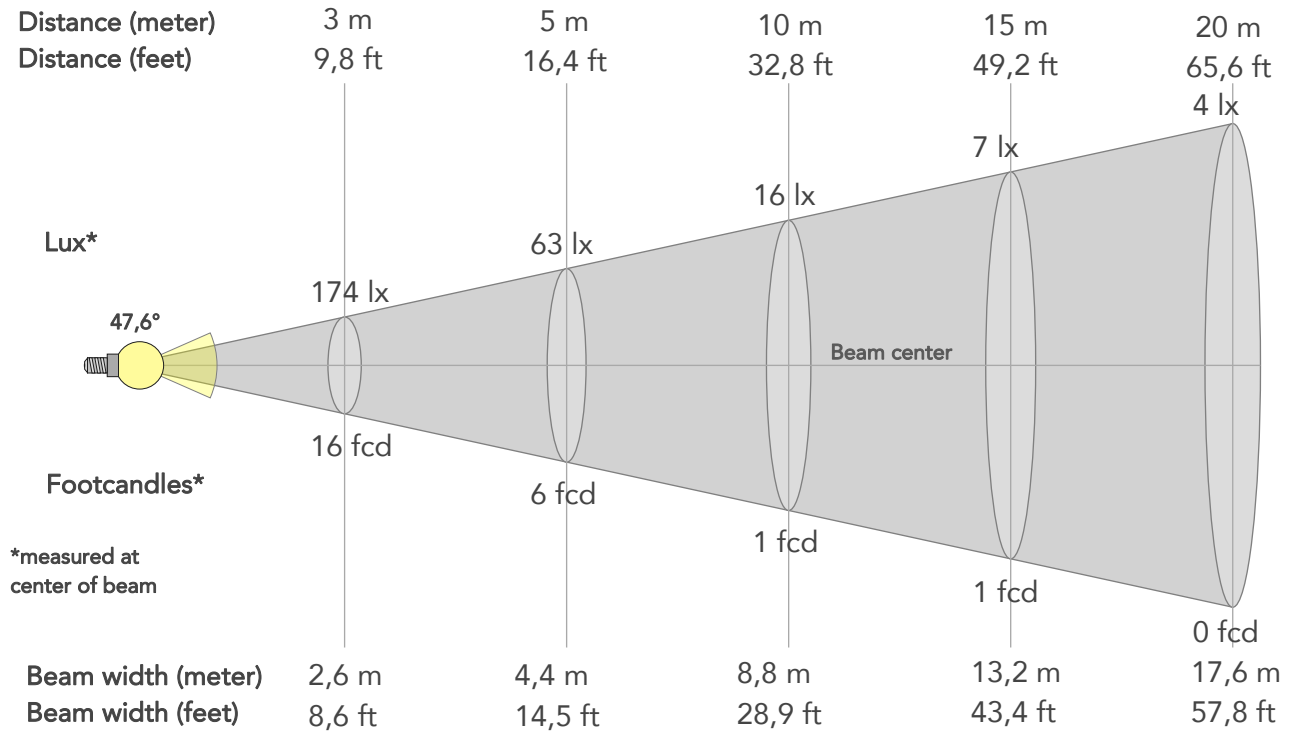
Cut off angle 2.5%: 116,5°

Spectra



BEAM DETAILS

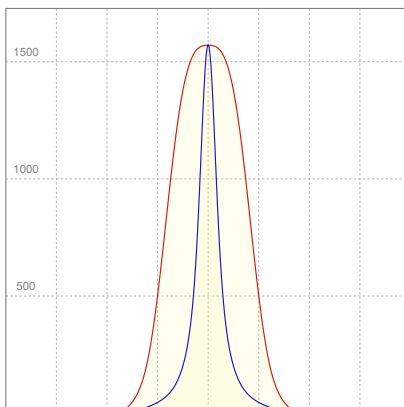
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47,6°	82,9°	116,5°	96,6%	82,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1570lx	393lx	174lx	98lx	63lx	28lx	16lx	7lx	4lx	3lx	2lx	1lx	1lx
Footcand.	146fcd	36fcd	16fcd	9fcd	6fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,6m	3,5m	4,4m	6,6m	8,8m	13,2m	17,6m	22m	26,4m	35,3m	44,1m
Beam wid.	2,9ft	5,8ft	8,6ft	11,5ft	14,5ft	21,7ft	28,9ft	43,4ft	57,8ft	72,3ft	86,7ft	115,6ft	144,5ft

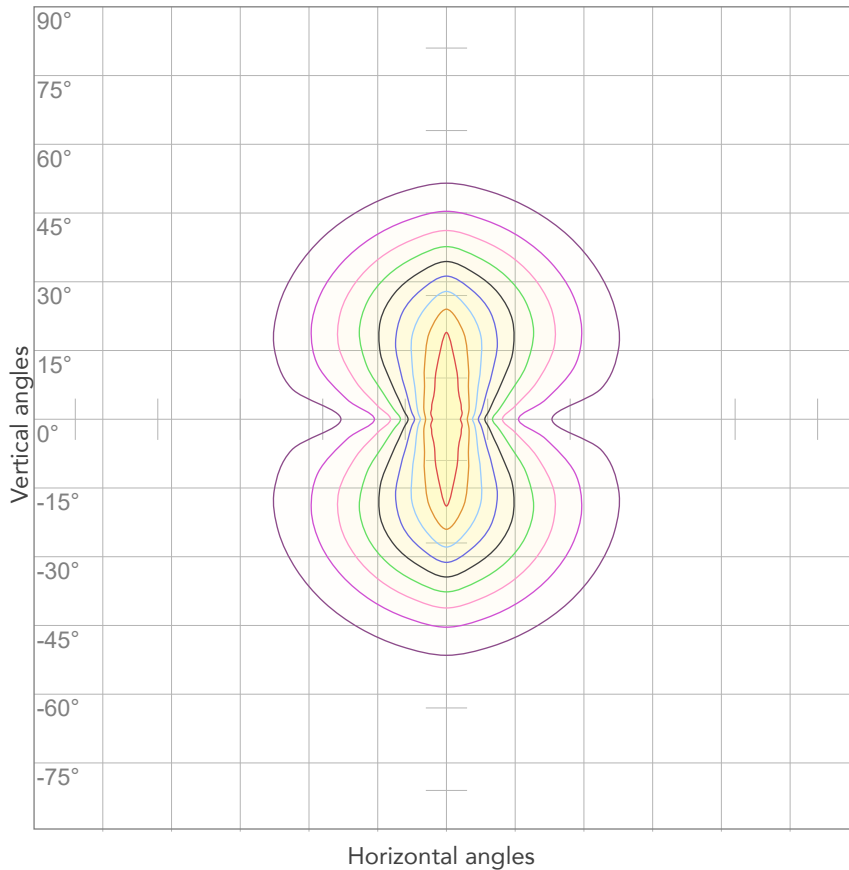
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,138A	23,0W	61lm/W

ISO CANDELA DIAGRAM



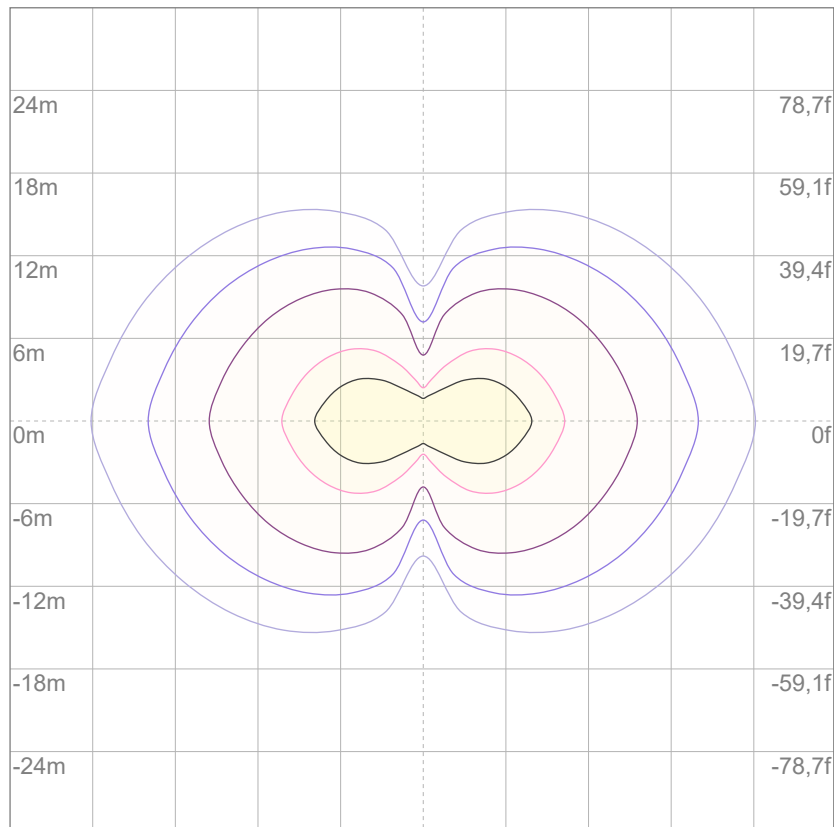
10%	157 cd
20%	314 cd
30%	471 cd
40%	628 cd
50%	785 cd
60%	942 cd
70%	1099 cd
80%	1256 cd

Conditions:

Number of c-planes: 4

Candela at center: 1570 cd

ISO LUX DIAGRAM



3%	0,471 lx
5%	0,785 lx
10%	1,57 lx
30%	4,71 lx
50%	7,85 lx

Conditions:

Number of c-planes: 4

Lux at center: 15,7 lx

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

Total lumen output:

1001 lm

Peak candela output:

1148 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 30°x 60°

Target:

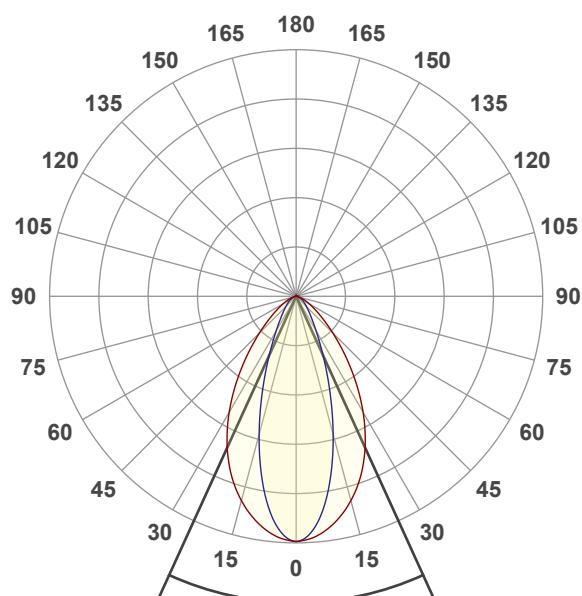
Green

Operator:

Paolo Carvone

Date and time:

24/03/2022 12:52:22

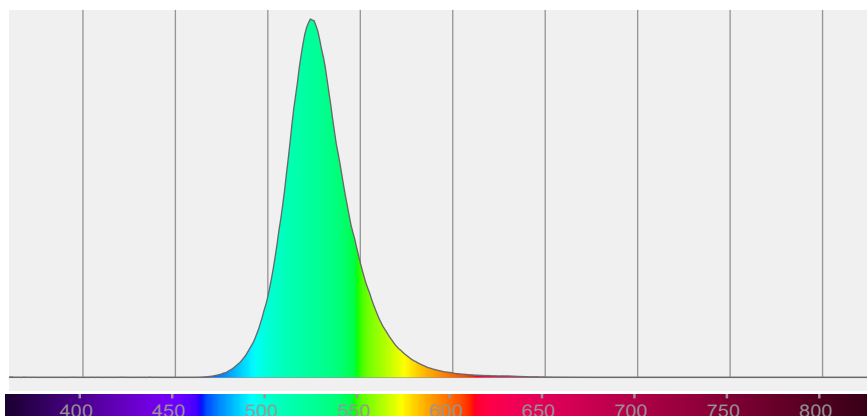


Beam angle 50%: 49°

Field angle 10%: 90,8°

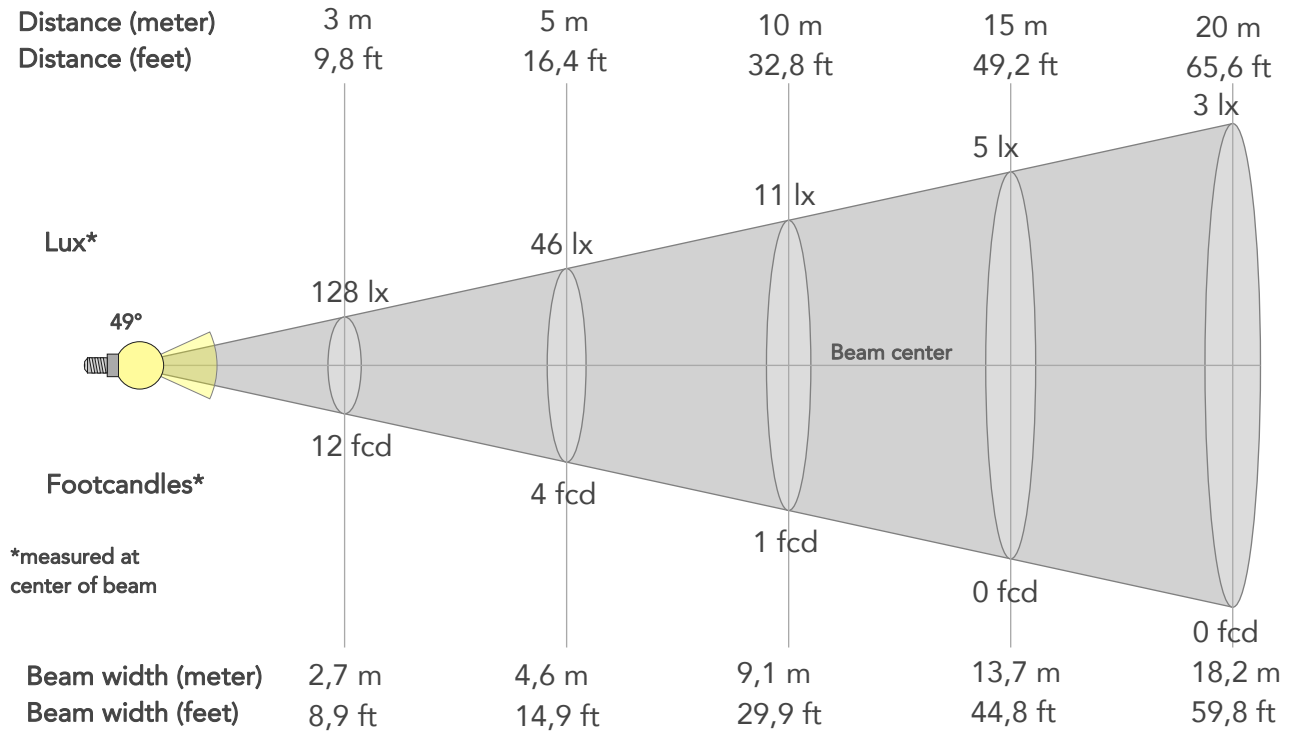
Cut off angle 2.5%: 130,5°

Spectra



BEAM DETAILS

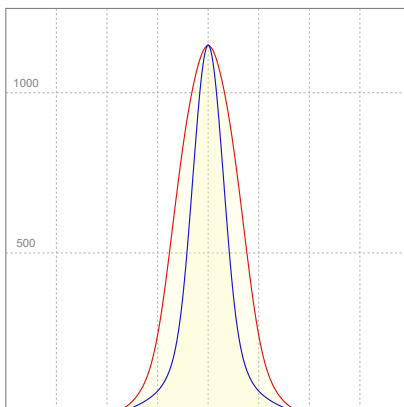
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49°	90,8°	130,5°	95,3%	83,4%



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	1148lx	287lx	128lx	72lx	46lx	20lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	107fcd	27fcd	12fcd	7fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,6m	6,8m	9,1m	13,7m	18,2m	22,8m	27,3m	36,4m	45,6m
Beam wid.	3ft	6ft	8,9ft	11,9ft	14,9ft	22,4ft	29,9ft	44,8ft	59,8ft	74,7ft	89,6ft	119,5ft	149,4ft

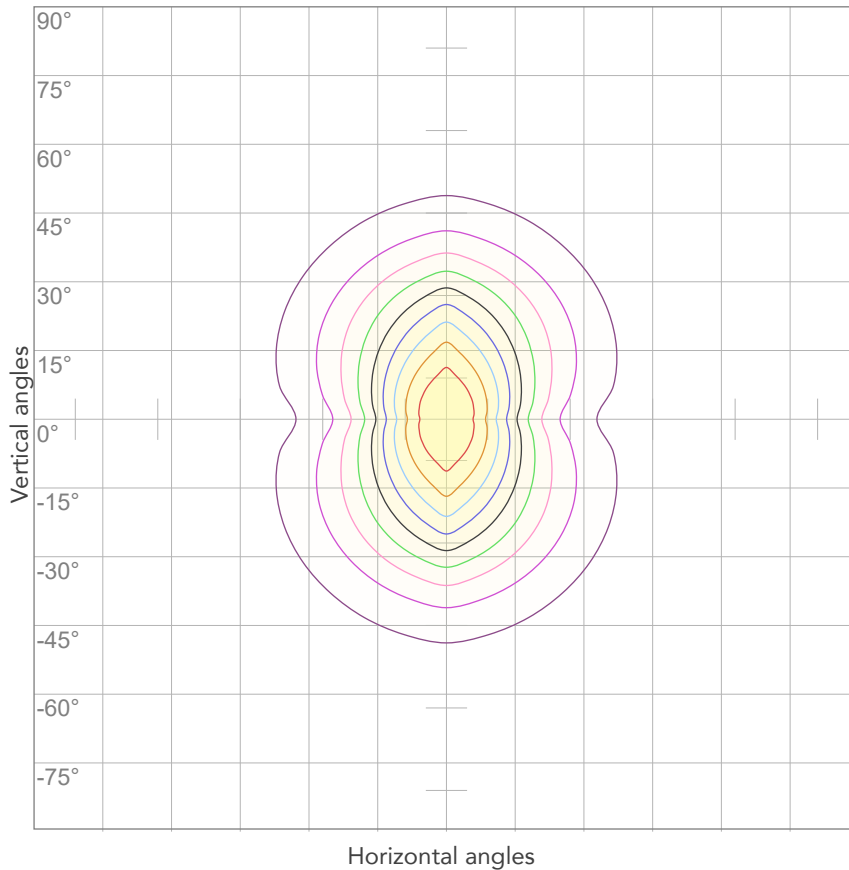
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,135A	22,4W	45lm/W

ISO CANDELA DIAGRAM



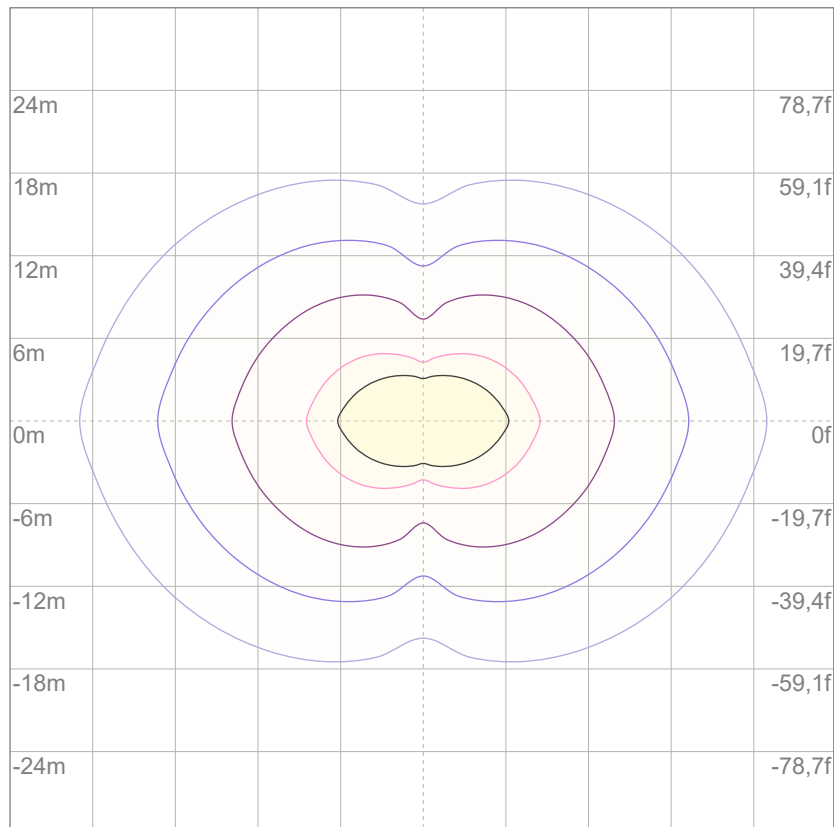
10%	115 cd
20%	230 cd
30%	344 cd
40%	459 cd
50%	574 cd
60%	689 cd
70%	804 cd
80%	919 cd

Conditions:

Number of c-planes: 4

Candela at center: 1148 cd

ISO LUX DIAGRAM



3%	0,344 lx
5%	0,574 lx
10%	1,15 lx
30%	3,44 lx
50%	5,74 lx

Conditions:

Number of c-planes: 4

Lux at center: 11,5 lx

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

Total lumen output:

219 lm

Peak candela output:

3194 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8° (Native Optic)

Target:

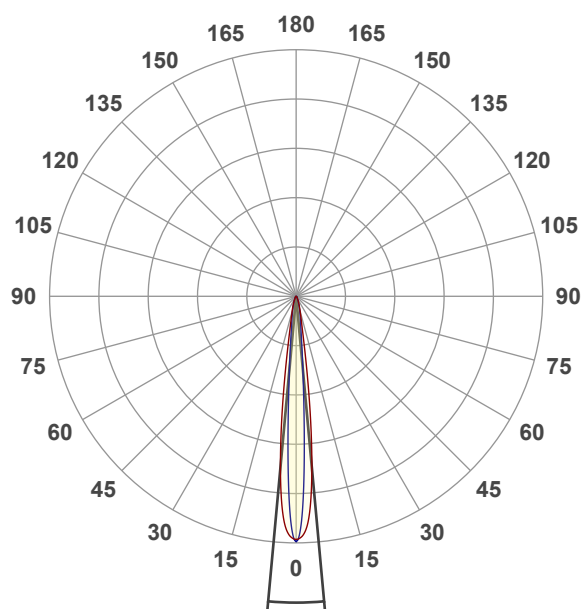
Blue

Operator:

Paolo Carvone

Date and time:

23/03/2022 12:38:56

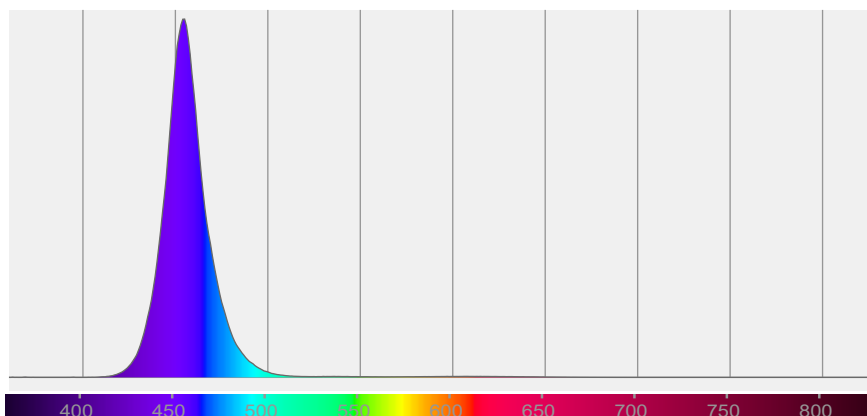


Beam angle 50%: 10,5°

Field angle 10%: 22,2°

Cut off angle 2.5%: 43,1°

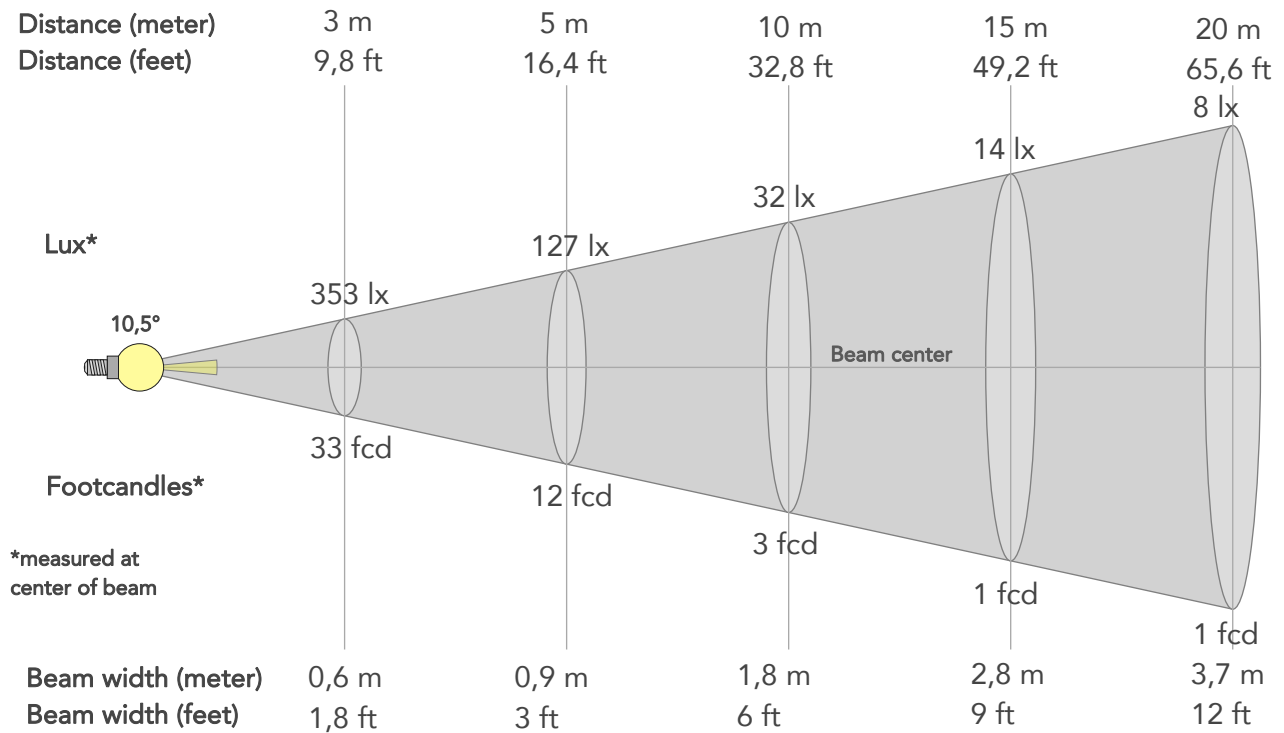
Spectra



BEAM DETAILS



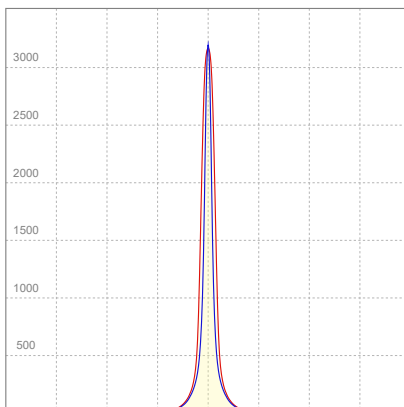
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,5°	22,2°	43,1°	99,6%	97,1%



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	3180lx	795lx	353lx	199lx	127lx	57lx	32lx	14lx	8lx	5lx	4lx	2lx	1lx
Footcand.	295fcd	74fcd	33fcd	18fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,2m	0,4m	0,6m	0,7m	0,9m	1,4m	1,8m	2,8m	3,7m	4,6m	5,5m	7,3m	9,2m
Beam wid.	0,6ft	1,2ft	1,8ft	2,4ft	3ft	4,5ft	6ft	9ft	12ft	15ft	18ft	24,1ft	30,1ft

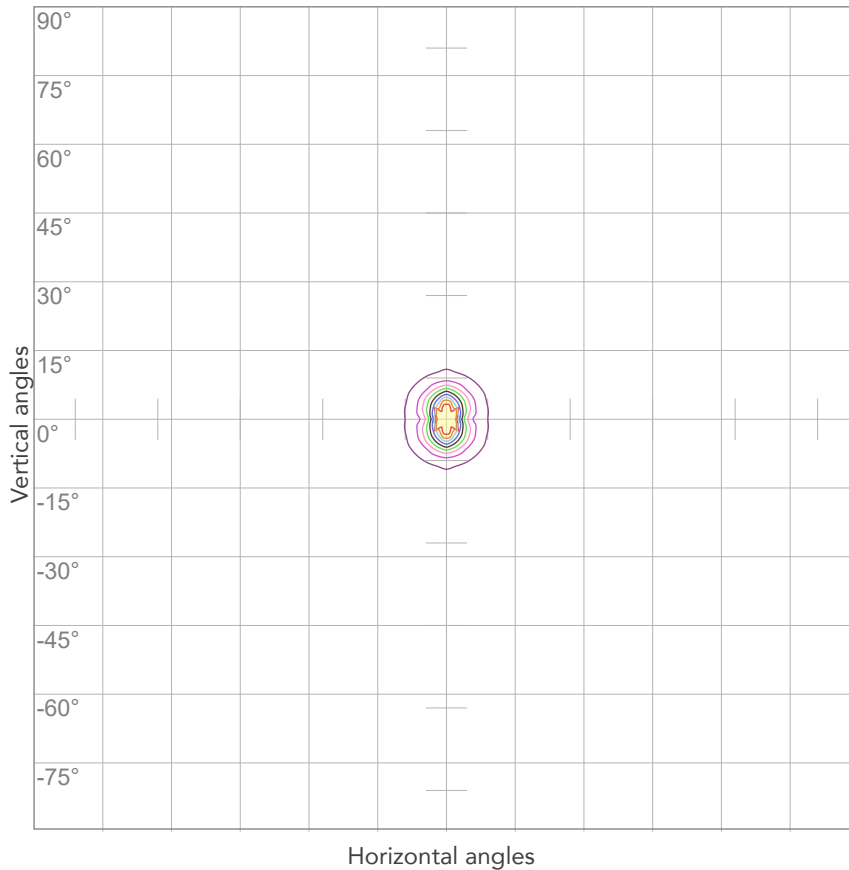
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,141A	23,5W	9lm/W

ISO CANDELA DIAGRAM



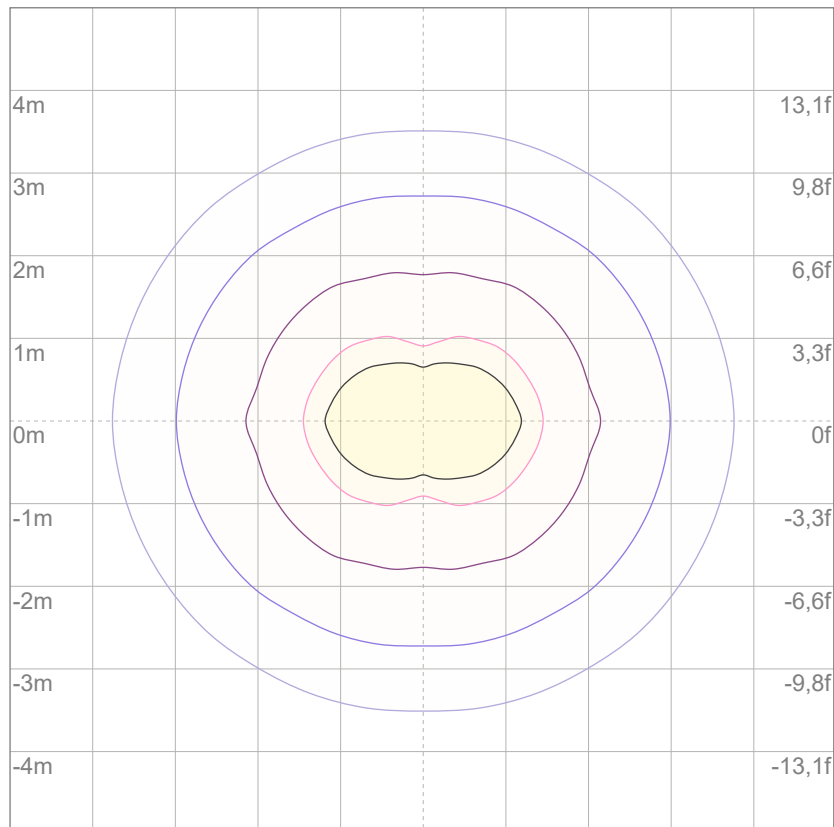
10%	318 cd
20%	636 cd
30%	954 cd
40%	1272 cd
50%	1590 cd
60%	1908 cd
70%	2226 cd
80%	2544 cd

Conditions:

Number of c-planes: 4

Candela at center: 3180 cd

ISO LUX DIAGRAM



3%	0,954 lx
5%	1,59 lx
10%	3,18 lx
30%	9,54 lx
50%	15,9 lx

Conditions:

Number of c-planes: 4

Lux at center: 31,8 lx

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

Total lumen output:

217 lm

Peak candela output:

626 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 20°

Target:

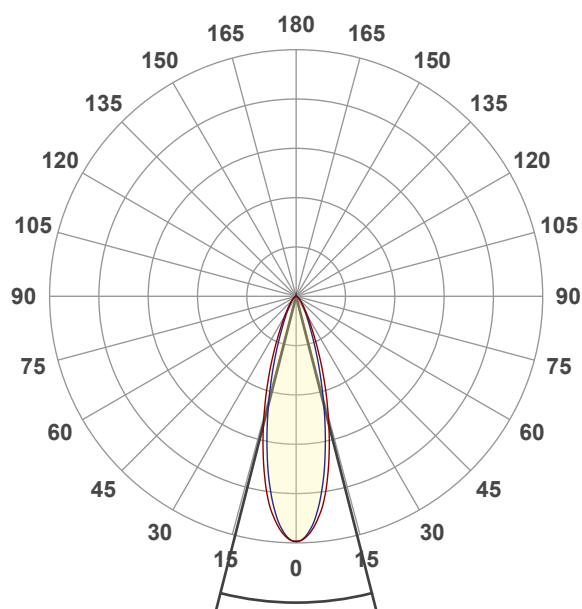
Blue

Operator:

Paolo Carvone

Date and time:

23/03/2022 15:50:34

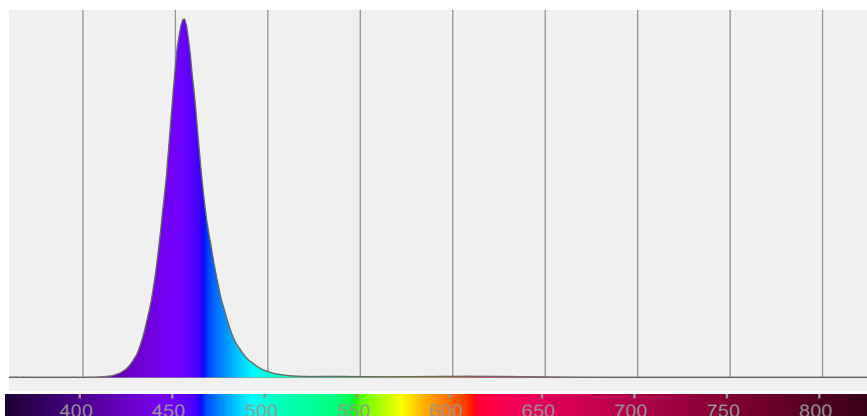


Beam angle 50%: 28,6°

Field angle 10%: 56,3°

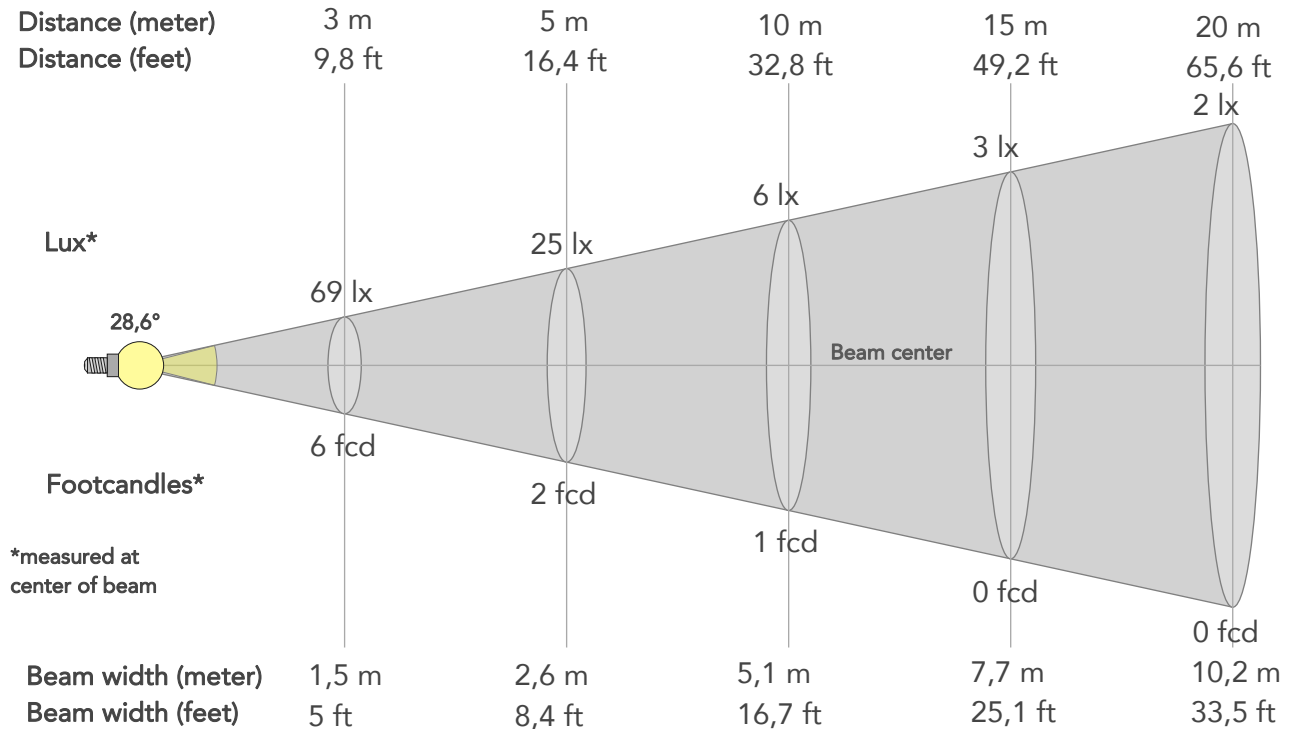
Cut off angle 2.5%: 88,4°

Spectra



BEAM DETAILS

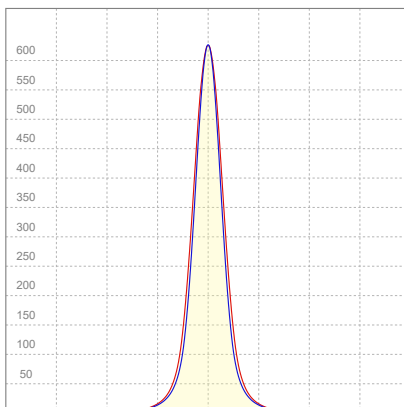
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28,6°	56,3°	88,4°	98,2%	92,8%



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	625lx	156lx	69lx	39lx	25lx	11lx	6lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	58fcd	15fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,6m	3,8m	5,1m	7,7m	10,2m	12,8m	15,3m	20,4m	25,5m
Beam wid.	1,7ft	3,4ft	5ft	6,7ft	8,4ft	12,6ft	16,7ft	25,1ft	33,5ft	41,8ft	50,2ft	66,9ft	83,7ft

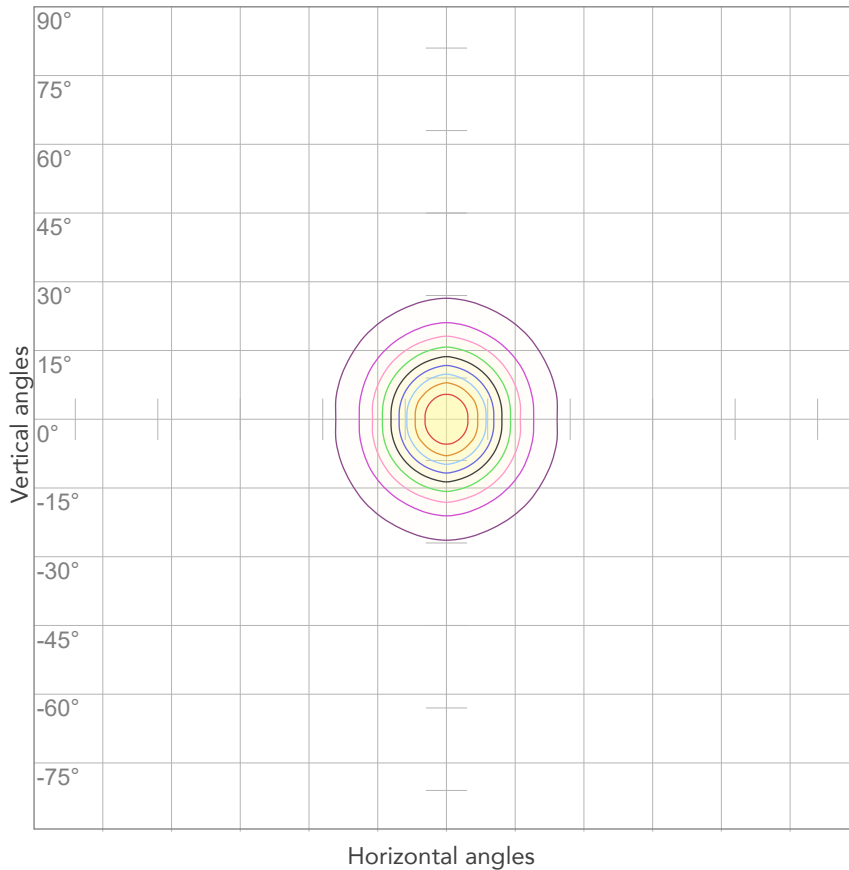
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,141A	23,5W	9lm/W

ISO CANDELA DIAGRAM



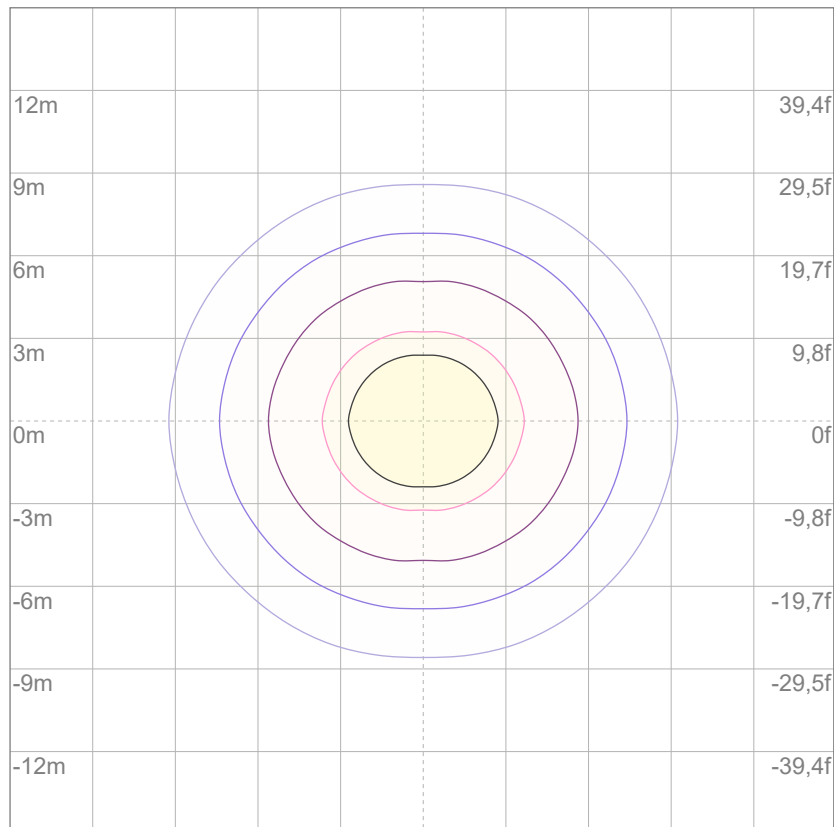
10%	63 cd
20%	125 cd
30%	188 cd
40%	250 cd
50%	313 cd
60%	375 cd
70%	438 cd
80%	500 cd

Conditions:

Number of c-planes: 4

Candela at center: 625 cd

ISO LUX DIAGRAM



3%	0,188 lx
5%	0,313 lx
10%	0,625 lx
30%	1,88 lx
50%	3,13 lx

Conditions:

Number of c-planes: 4

Lux at center: 6,25 lx

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

Total lumen output:

217 lm

Peak candela output:

243 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 40°

Target:

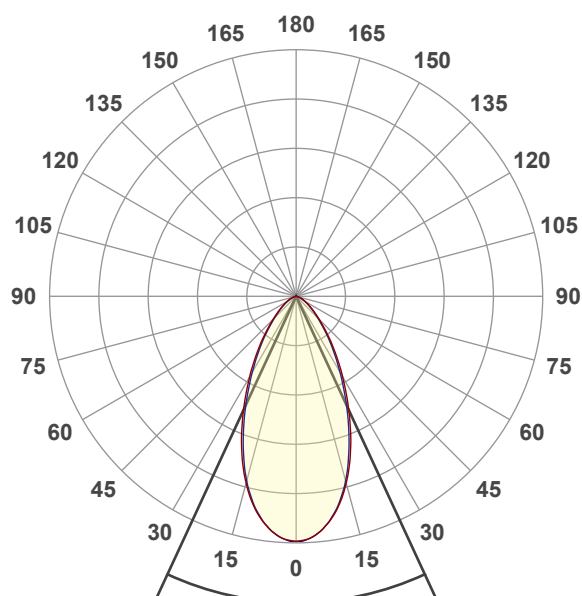
Blue

Operator:

Paolo Carvone

Date and time:

24/03/2022 11:42:01

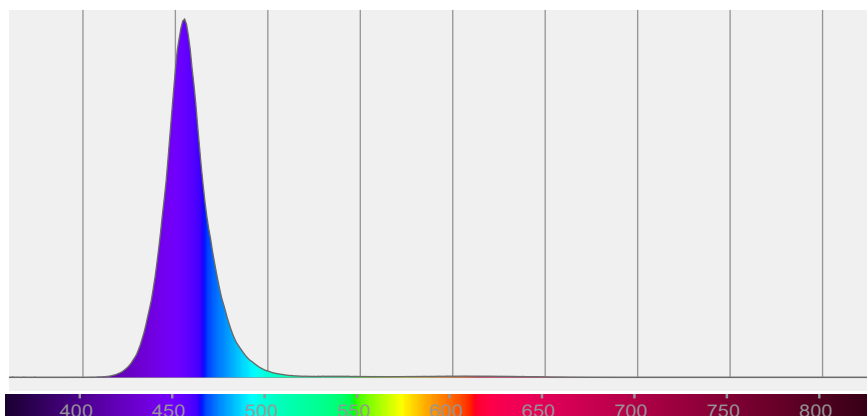


Beam angle 50%: 49,7°

Field angle 10%: 96,9°

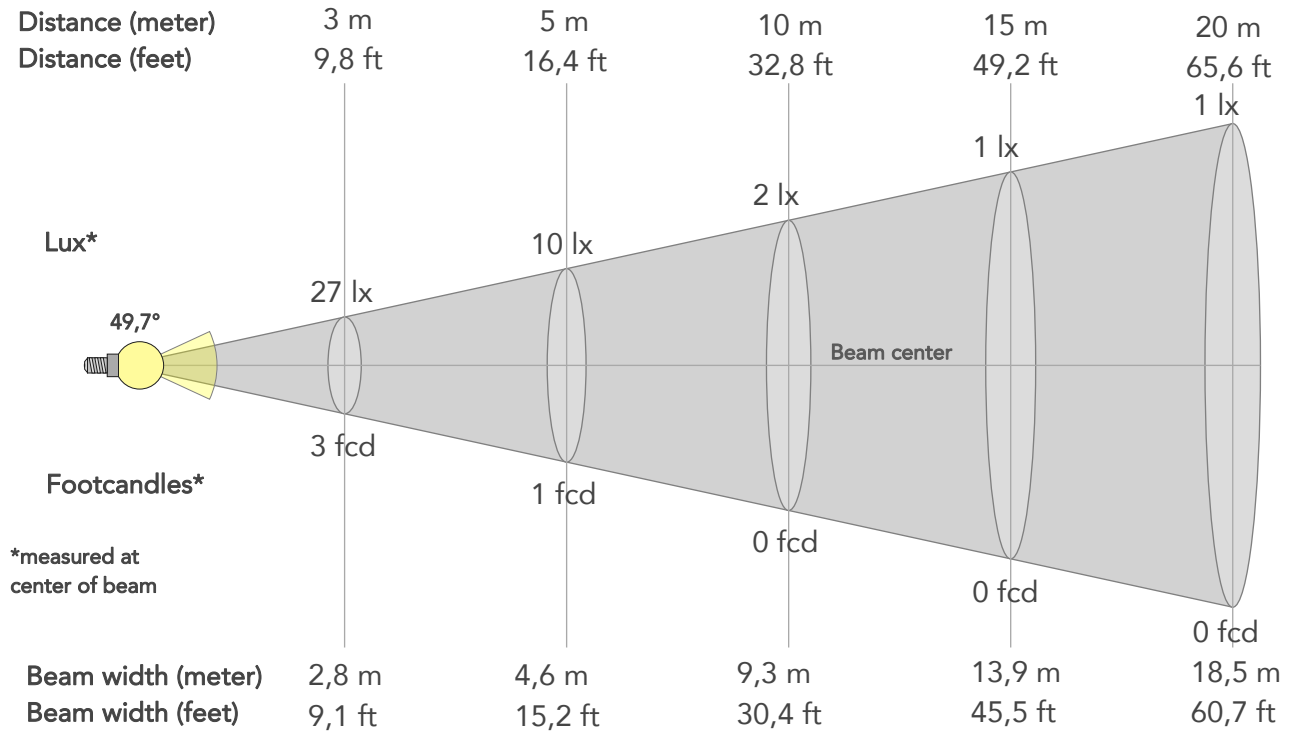
Cut off angle 2.5%: 131,5°

Spectra



BEAM DETAILS

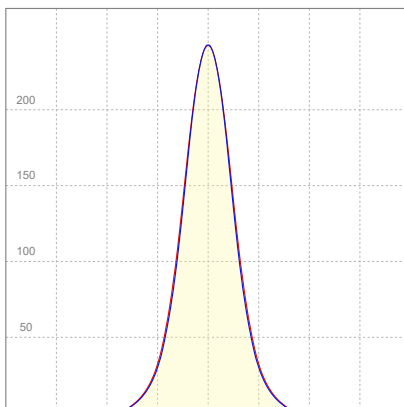
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,7°	96,9°	131,5°	95,9%	84,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	242lx	61lx	27lx	15lx	10lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	23fcd	6fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,7m	4,6m	6,9m	9,3m	13,9m	18,5m	23,1m	27,8m	37m	46,3m
Beam wid.	3,1ft	6,1ft	9,1ft	12,1ft	15,2ft	22,8ft	30,4ft	45,5ft	60,7ft	75,9ft	91,1ft	121,5ft	151,8ft

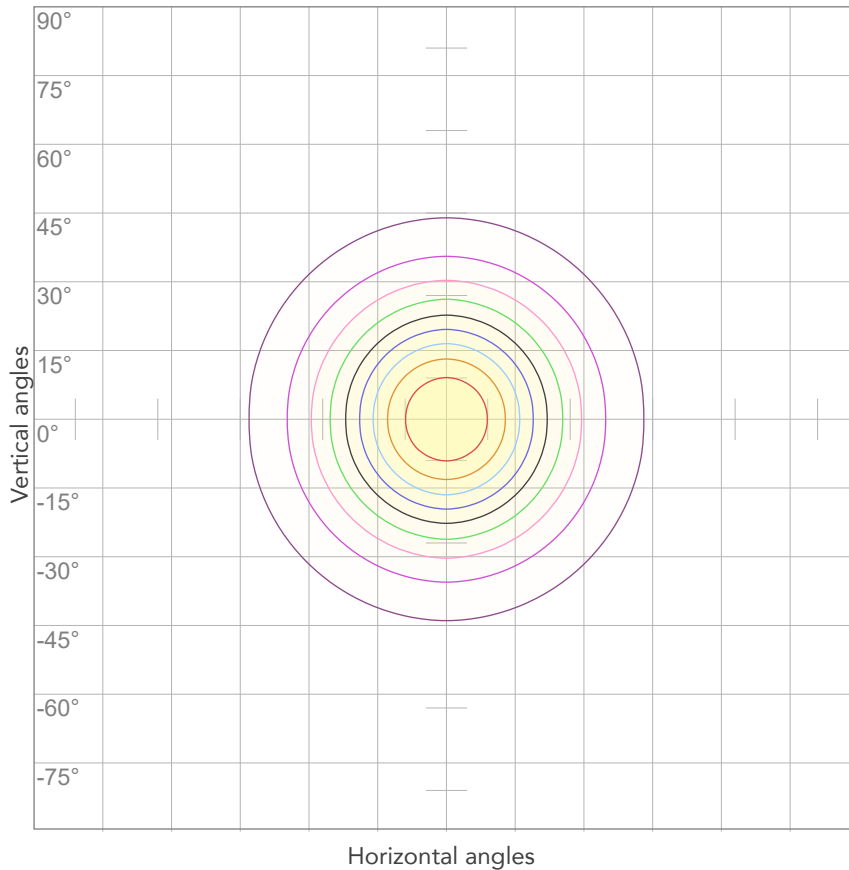
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,139A	23,2W	9lm/W

ISO CANDELA DIAGRAM



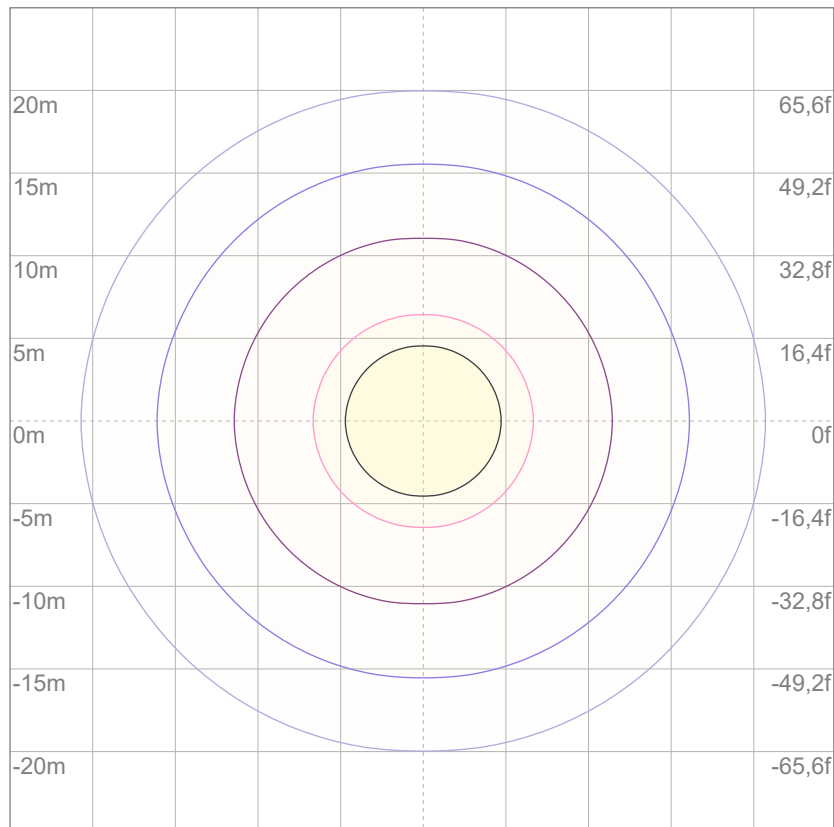
10%	24 cd
20%	48 cd
30%	73 cd
40%	97 cd
50%	121 cd
60%	145 cd
70%	170 cd
80%	194 cd

Conditions:

Number of c-planes: 4

Candela at center: 242 cd

ISO LUX DIAGRAM



3%	72,7m lx
5%	0,121 lx
10%	0,242 lx
30%	0,727 lx
50%	1,21 lx

Conditions:

Number of c-planes: 4

Lux at center: 2,42 lx

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

Total lumen output:

224 lm

Peak candela output:

174 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 60°

Target:

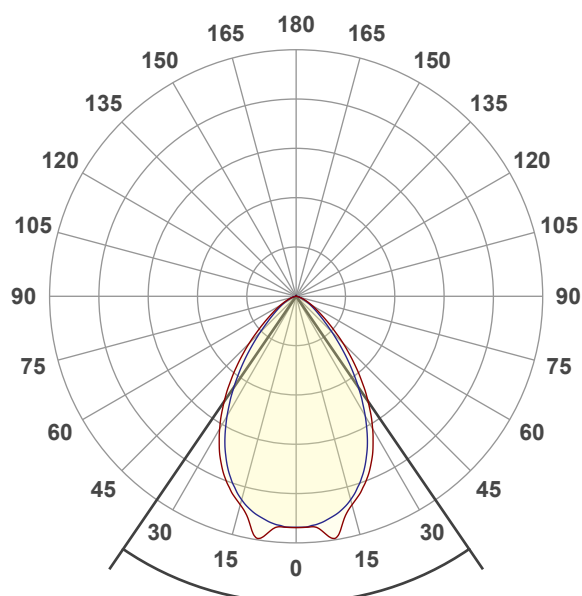
Blue

Operator:

Paolo Carvone

Date and time:

23/03/2022 16:06:31

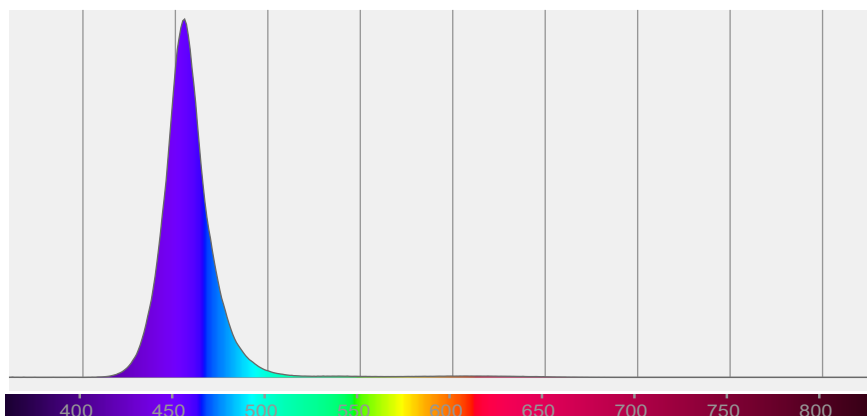


Beam angle 50%: 68,8°

Field angle 10%: 111,2°

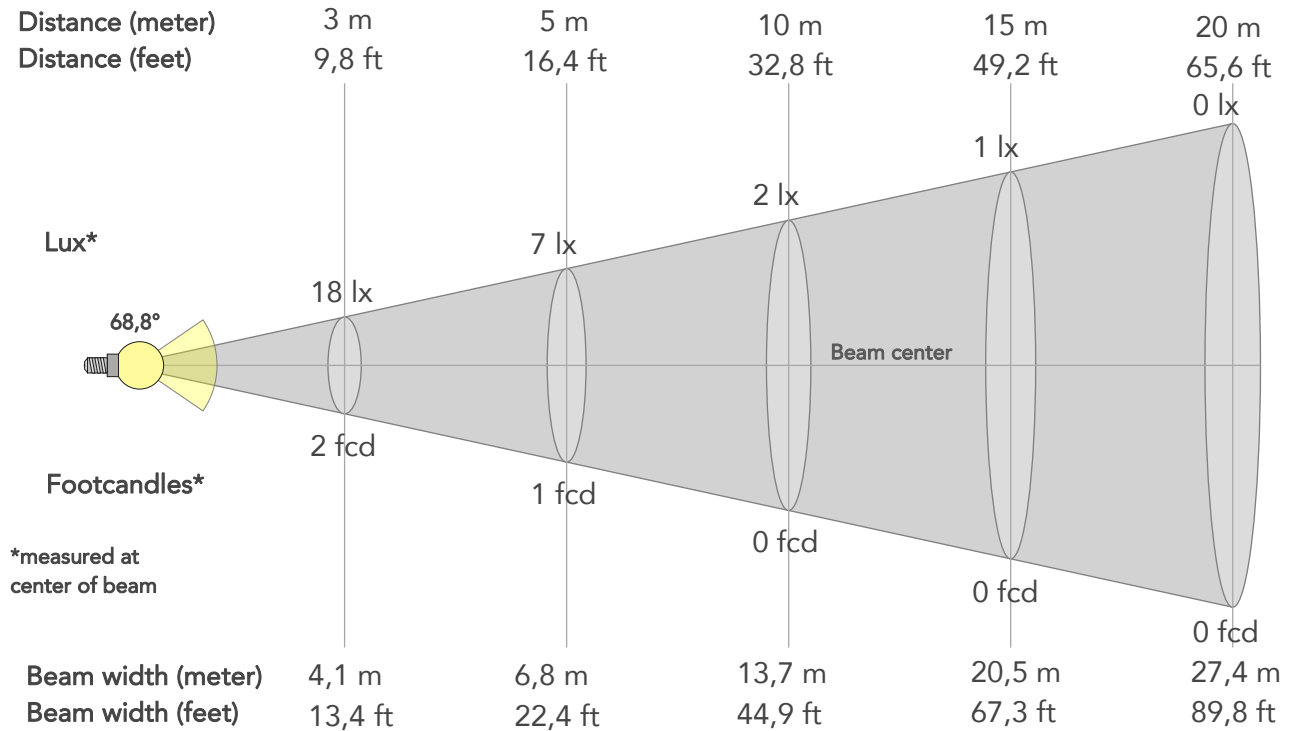
Cut off angle 2.5%: 140,3°

Spectra



BEAM DETAILS

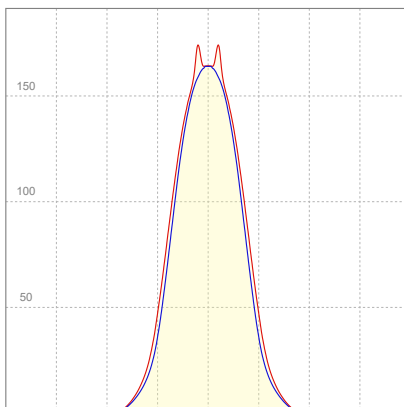
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
68,8°	111,2°	140,3°	95,4%	82,0%



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	164lx	41lx	18lx	10lx	7lx	3lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	15fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,7m	4,1m	5,5m	6,8m	10,3m	13,7m	20,5m	27,4m	34,2m	41,1m	54,7m	68,4m
Beam wid.	4,5ft	9ft	13,4ft	17,9ft	22,4ft	33,7ft	44,9ft	67,3ft	89,8ft	112,2ft	134,7ft	179,6ft	224,5ft

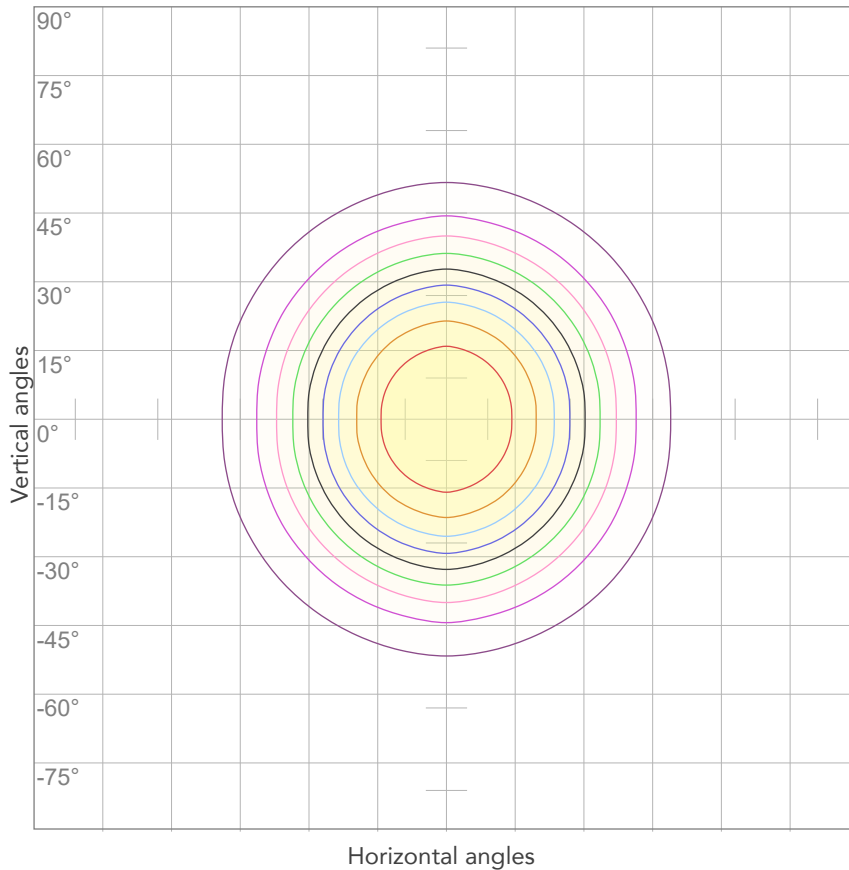
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,140A	23,3W	10lm/W

ISO CANDELA DIAGRAM



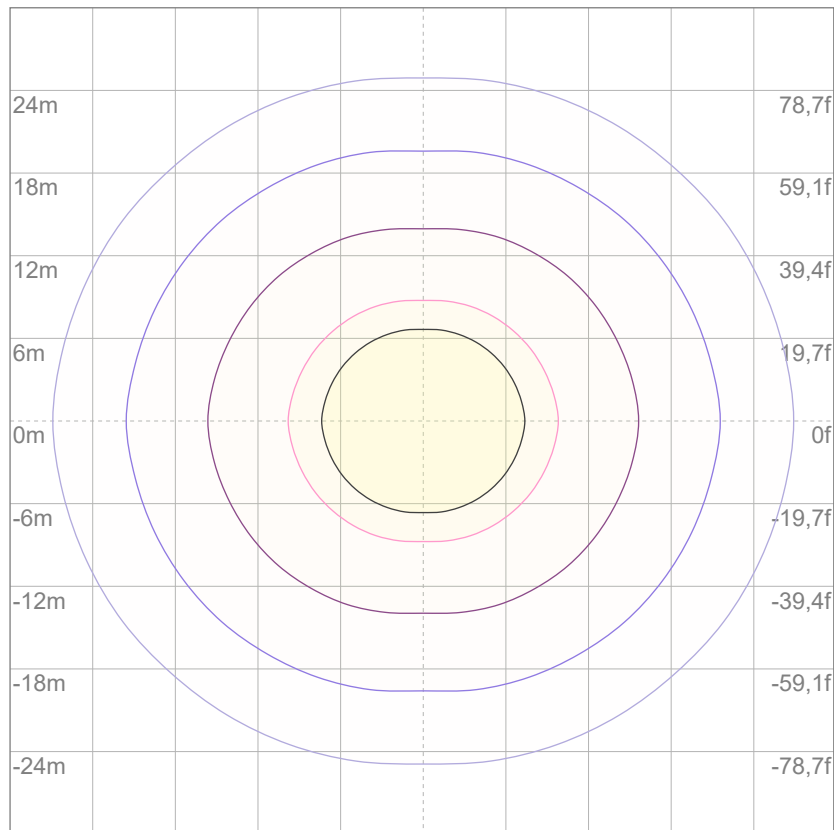
10%	16 cd
20%	33 cd
30%	49 cd
40%	66 cd
50%	82 cd
60%	98 cd
70%	115 cd
80%	131 cd

Conditions:

Number of c-planes: 4

Candela at center: 164 cd

ISO LUX DIAGRAM



3%	49,2m lx
5%	82,1m lx
10%	0,164 lx
30%	0,492 lx
50%	0,821 lx

Conditions:

Number of c-planes: 4

Lux at center: 1,64 lx

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

Total lumen output:

338 lm

Peak candela output:

395 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 10°x 60°

Target:

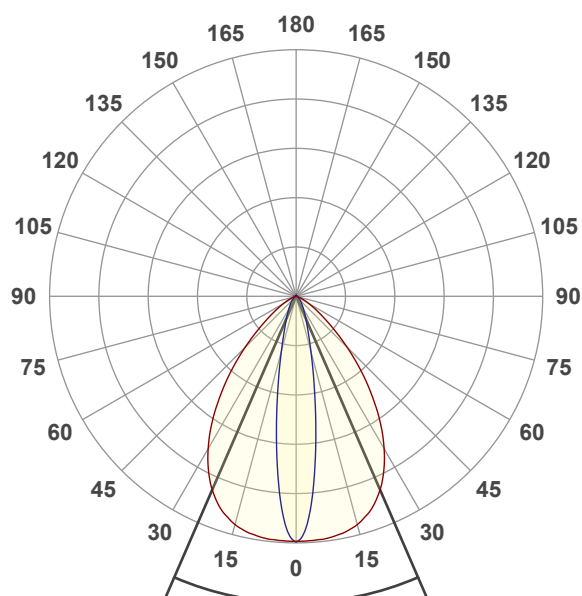
Blue

Operator:

Paolo Carvone

Date and time:

24/03/2022 09:31:34

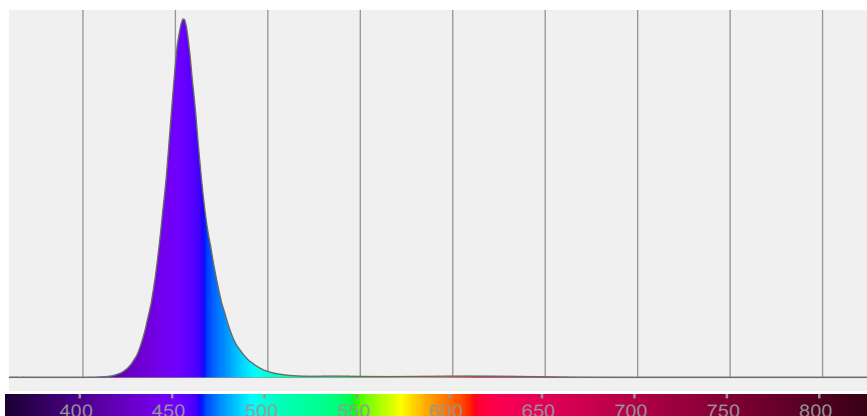


Beam angle 50%: 46,9°

Field angle 10%: 78,9°

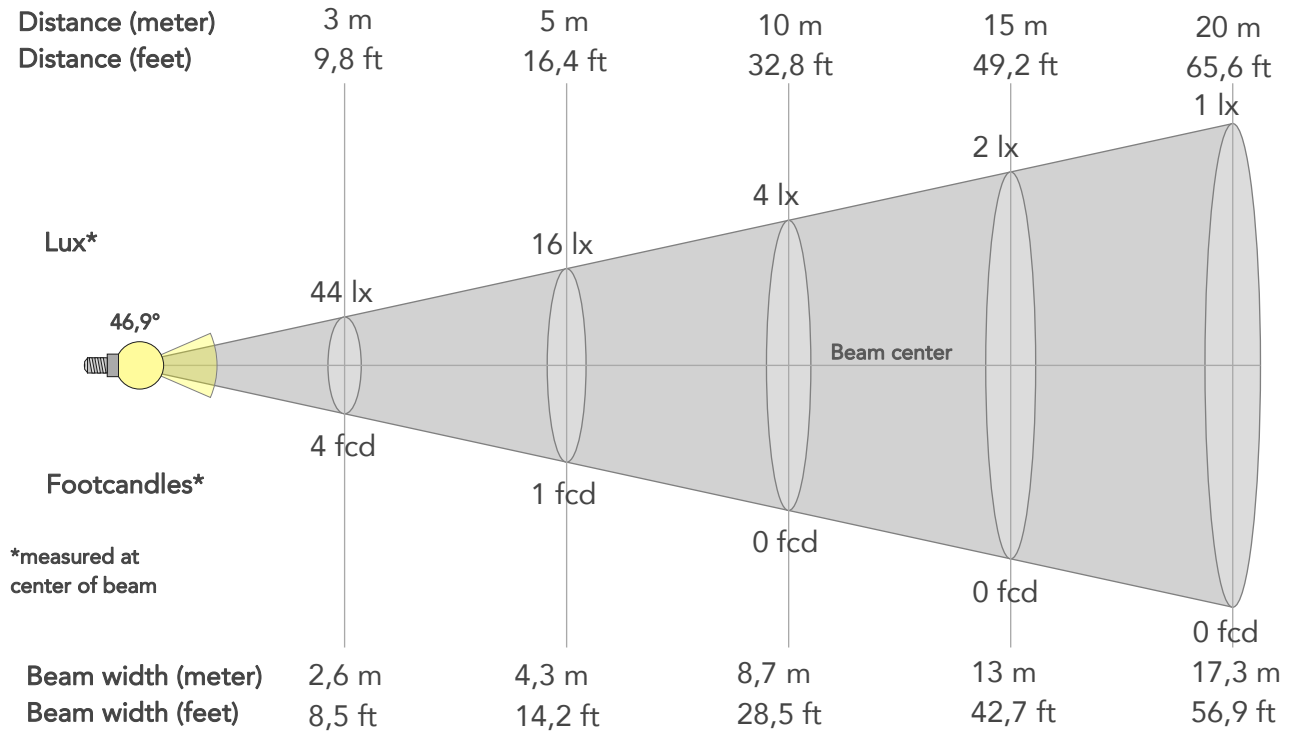
Cut off angle 2.5%: 111,2°

Spectra



BEAM DETAILS

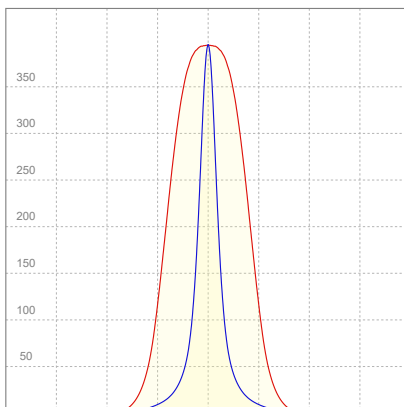
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46,9°	78,9°	111,2°	97,1%	84,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	395lx	99lx	44lx	25lx	16lx	7lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	37fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,3m	6,5m	8,7m	13m	17,3m	21,7m	26m	34,7m	43,4m
Beam wid.	2,9ft	5,7ft	8,5ft	11,4ft	14,2ft	21,3ft	28,5ft	42,7ft	56,9ft	71,1ft	85,4ft	113,8ft	142,3ft

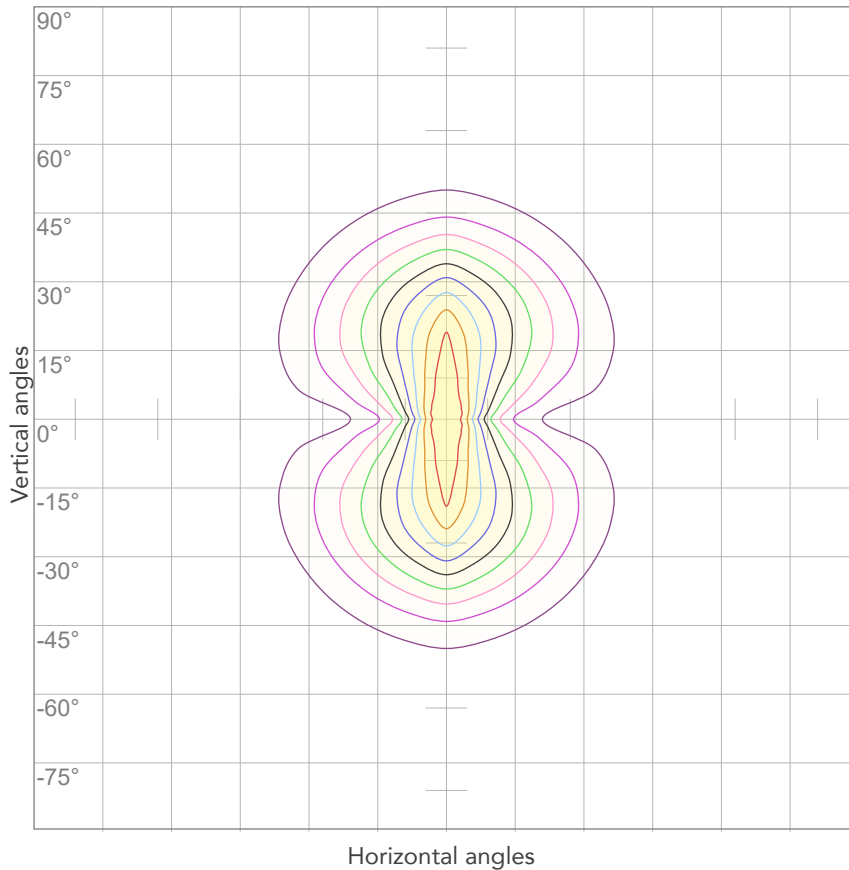
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,141A	23,7W	14lm/W

ISO CANDELA DIAGRAM



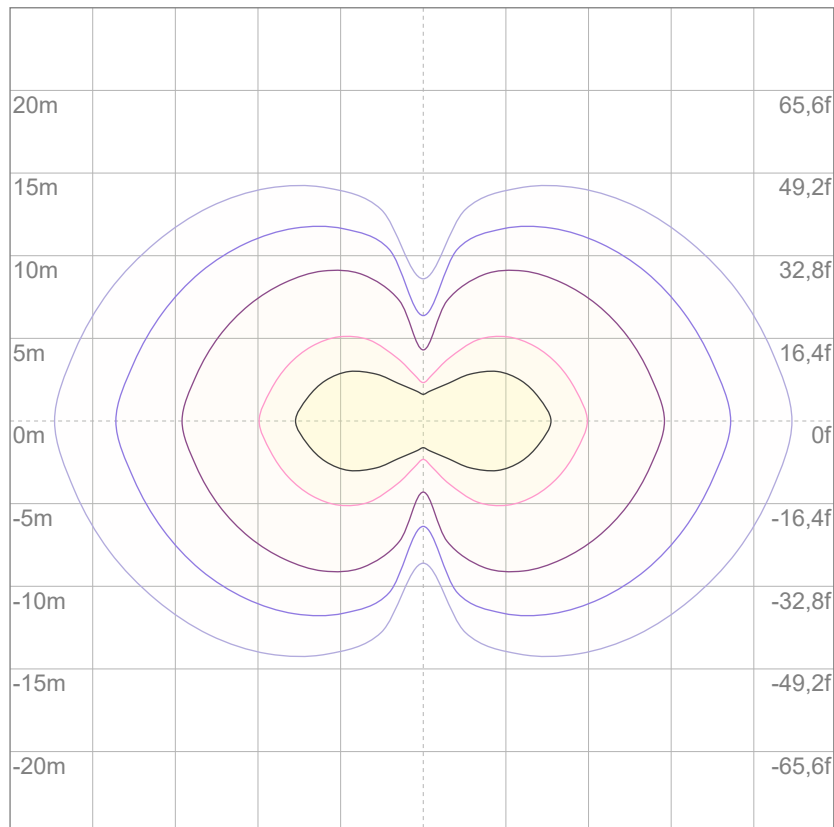
10%	39 cd
20%	79 cd
30%	118 cd
40%	158 cd
50%	197 cd
60%	237 cd
70%	276 cd
80%	316 cd

Conditions:

Number of c-planes: 4

Candela at center: 395 cd

ISO LUX DIAGRAM



3%	0,118 lx
5%	0,197 lx
10%	0,395 lx
30%	1,18 lx
50%	1,97 lx

Conditions:

Number of c-planes: 4

Lux at center: 3,95 lx

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

Total lumen output:

229 lm

Peak candela output:

284 cd



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 30°x 60°

Target:

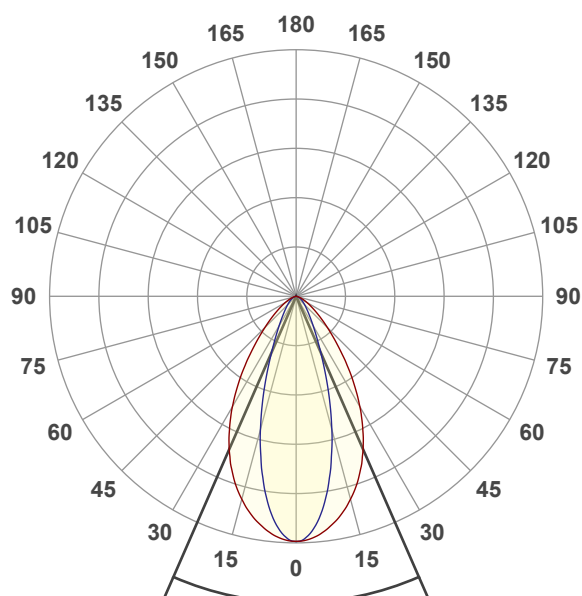
Blue

Operator:

Paolo Carvone

Date and time:

24/03/2022 12:56:43

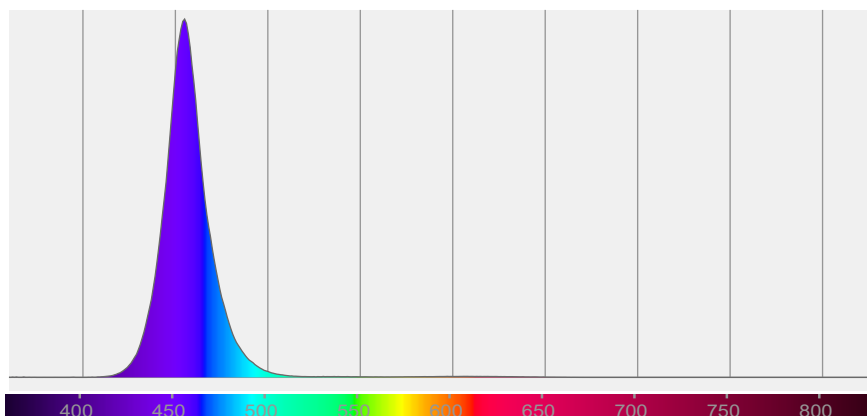


Beam angle 50%: 47,2°

Field angle 10%: 86,3°

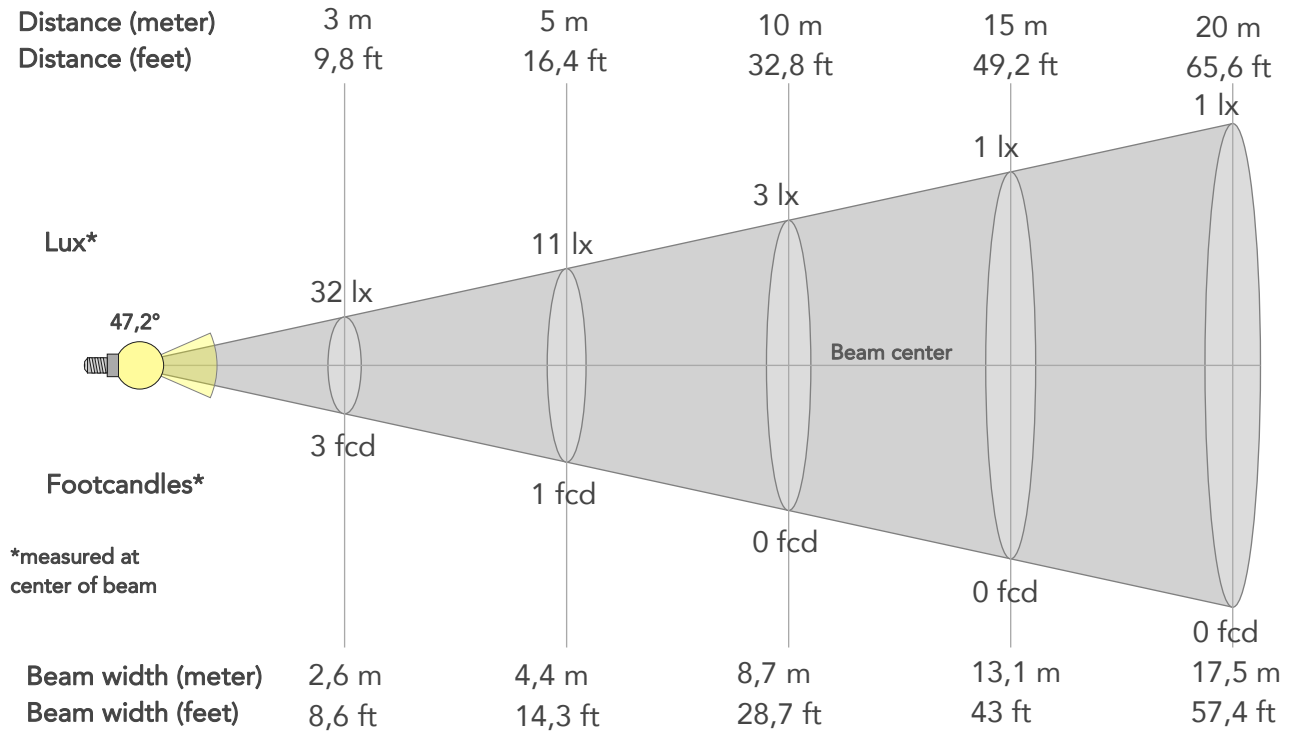
Cut off angle 2.5%: 124,7°

Spectra



BEAM DETAILS

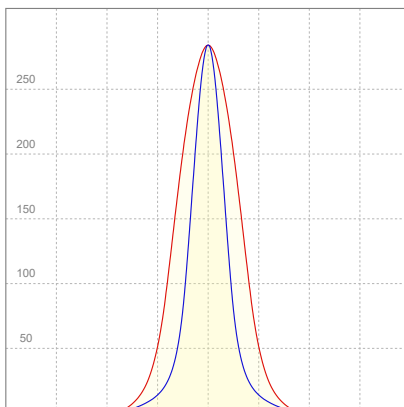
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47,2°	86,3°	124,7°	96,0%	85,2%



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	284lx	71lx	32lx	18lx	11lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	26fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,4m	6,6m	8,7m	13,1m	17,5m	21,9m	26,2m	35m	43,7m
Beam wid.	2,9ft	5,8ft	8,6ft	11,5ft	14,3ft	21,5ft	28,7ft	43ft	57,4ft	71,7ft	86,1ft	114,8ft	143,5ft

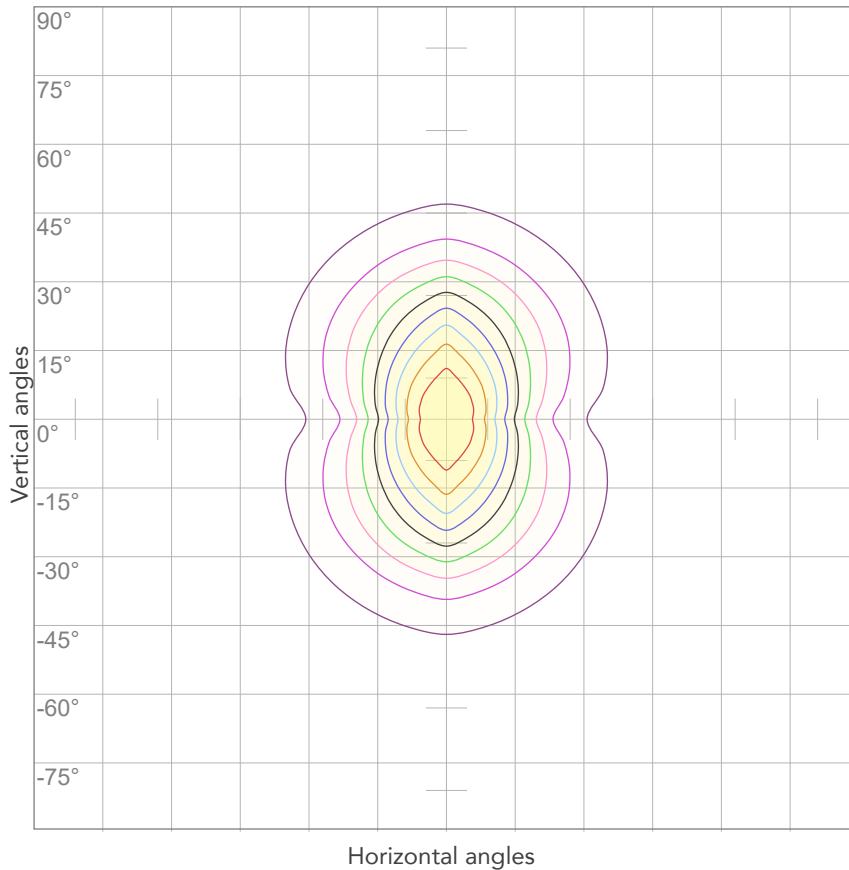
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,139A	23,2W	10lm/W

ISO CANDELA DIAGRAM



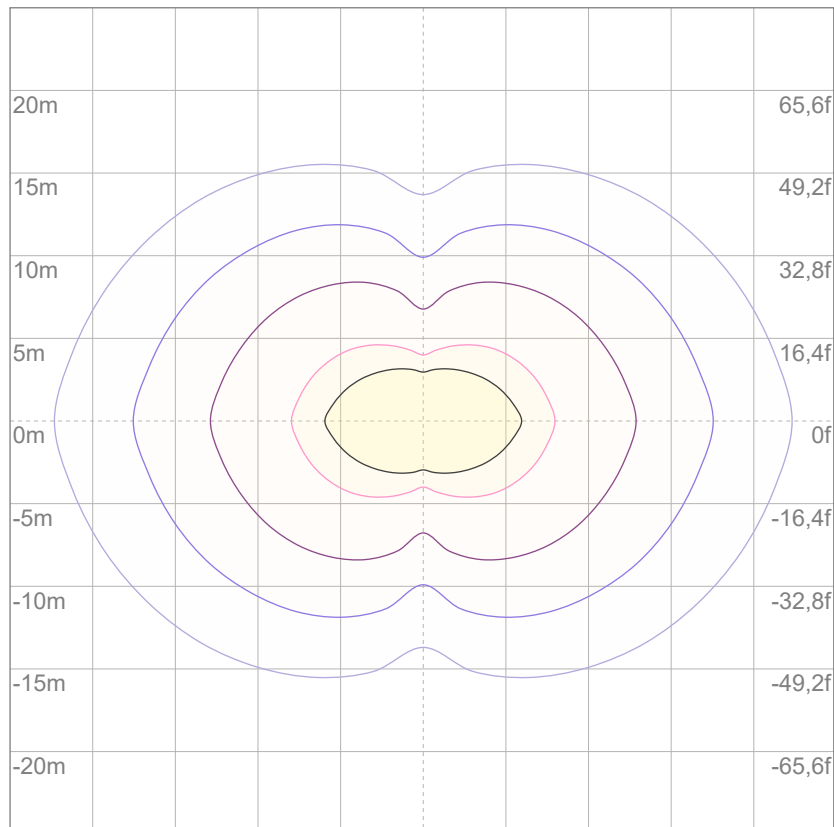
10%	28 cd
20%	57 cd
30%	85 cd
40%	114 cd
50%	142 cd
60%	170 cd
70%	199 cd
80%	227 cd

Conditions:

Number of c-planes: 4

Candela at center: 284 cd

ISO LUX DIAGRAM



3%	85,2m lx
5%	0,142 lx
10%	0,284 lx
30%	0,852 lx
50%	1,42 lx

Conditions:

Number of c-planes: 4

Lux at center: 2,84 lx

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



Total lumen output:

891 lm

Peak candela output:

11275 cd

Light quality:

CRI: 85,3

Color temperature:

2941 K

PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8° (Native Optic)

Target:

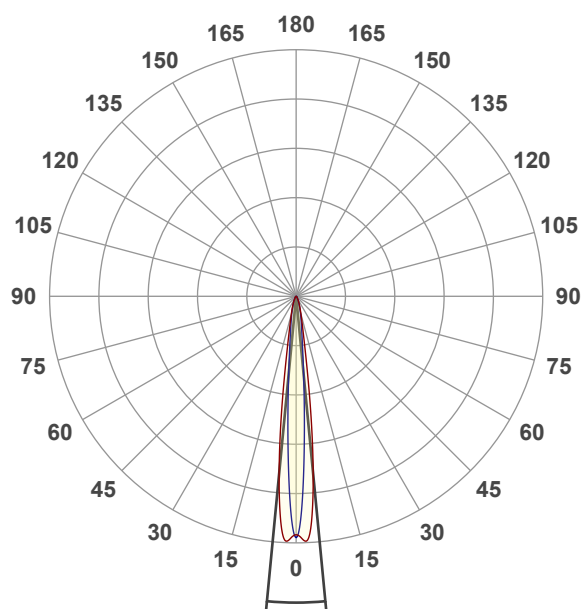
White

Operator:

Paolo Carvone

Date and time:

23/03/2022 12:43:17

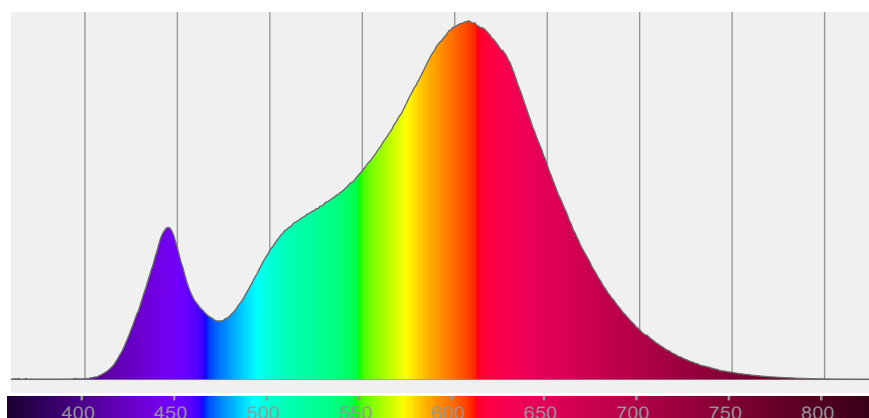


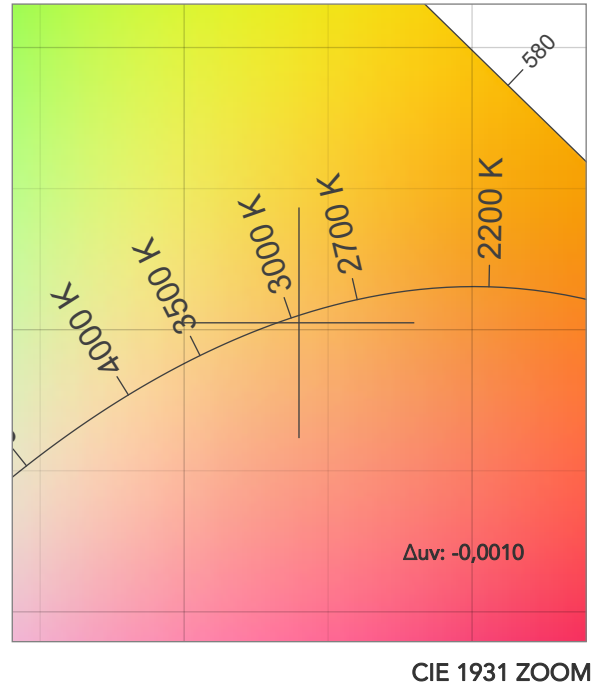
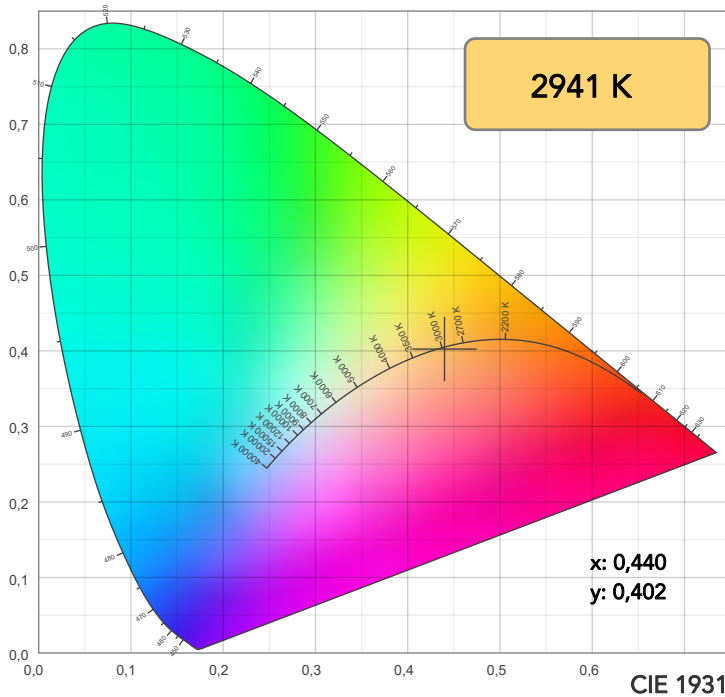
Beam angle 50%: 10,9°

Field angle 10%: 25°

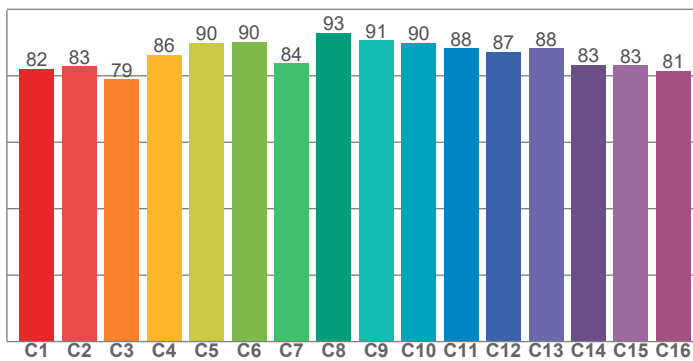
Cut off angle 2.5%: 47,4°

Spectra

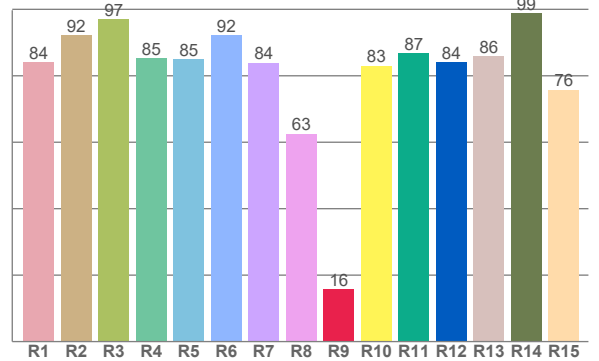




TM30: 86,1



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
84,0	92,2	97,0	85,3	85,0	92,1	83,9	62,6	15,7	83,1	86,7	84,0	86,0	98,9	75,8

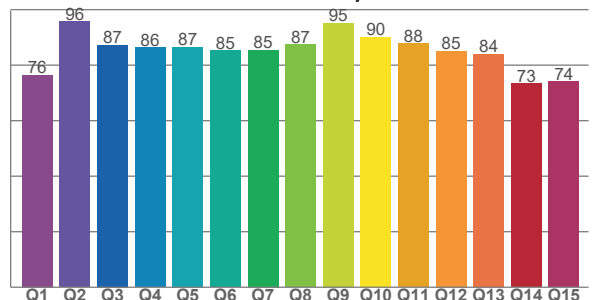
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,2	82,8	79,0	86,3	89,9	90,2	83,8	92,9	90,7	89,9	88,2	87,1	88,2	83,3	83,1	81,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,5	95,7	87,3	86,3	86,6	85,3	85,5	87,5	95,2	90,1	87,7	85,0	84,0	73,3	74,1

CQS: 83,9



COLOR PARAMETERS

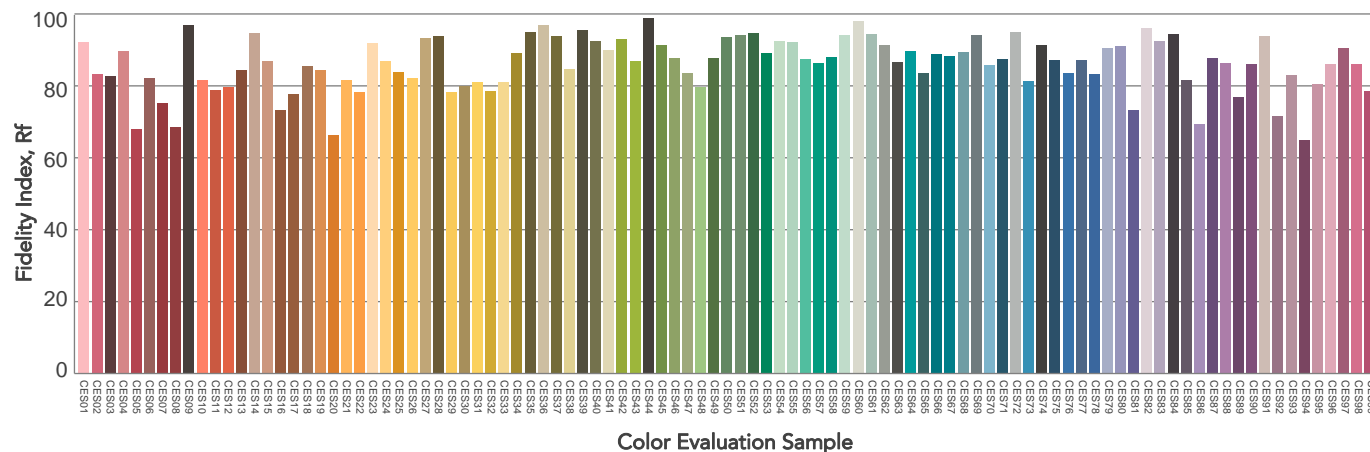
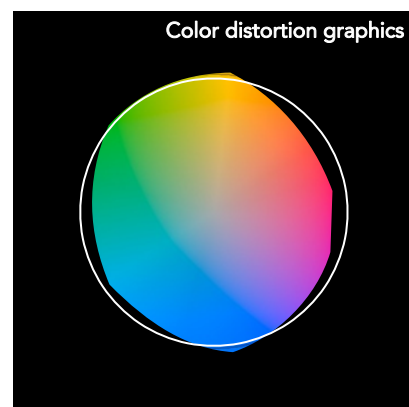
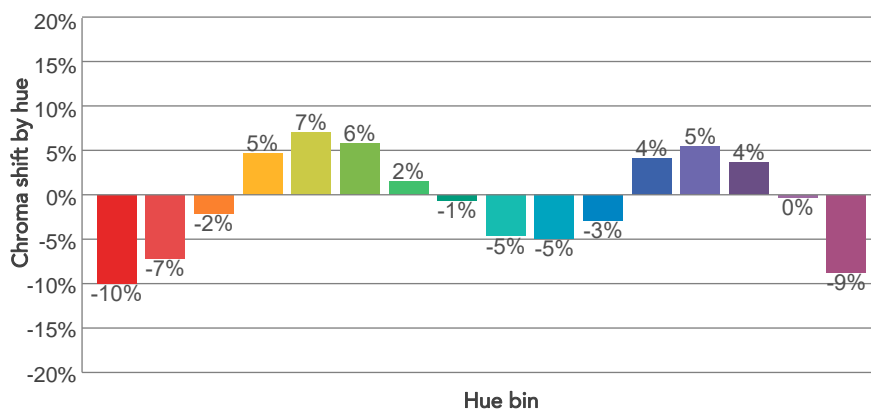
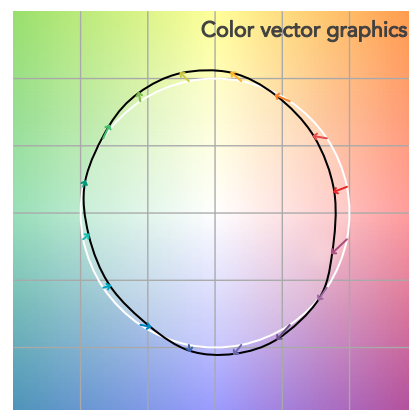
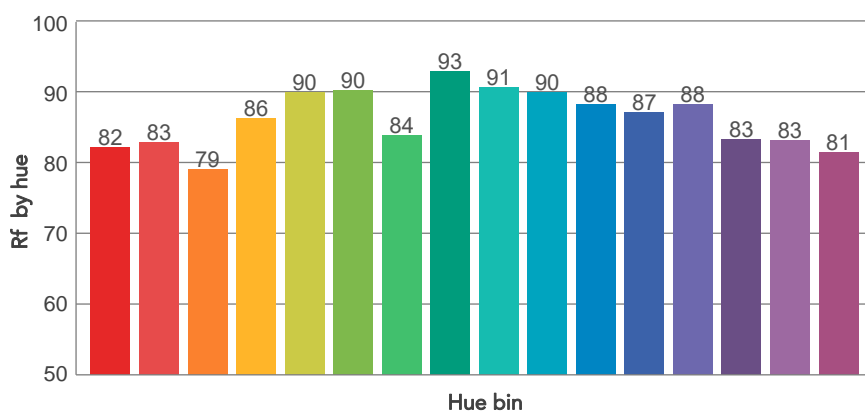
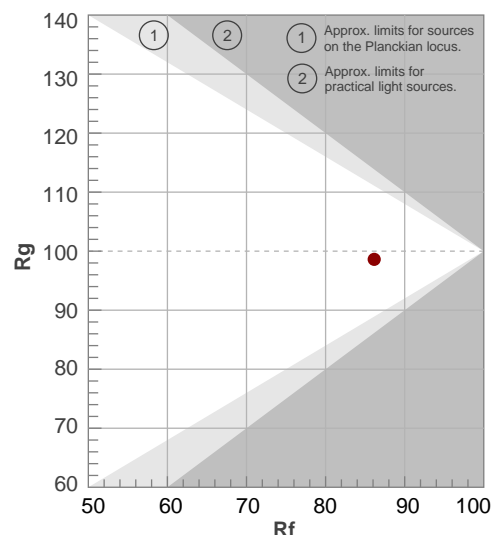
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2941 K	85,3	15,7	86,1	98,6	83,9	68	0,440	0,402	-0,0010

TM30 DETAILS

Rf 86,1
Fidelity index Rf

Rg 98,6
Gammut index

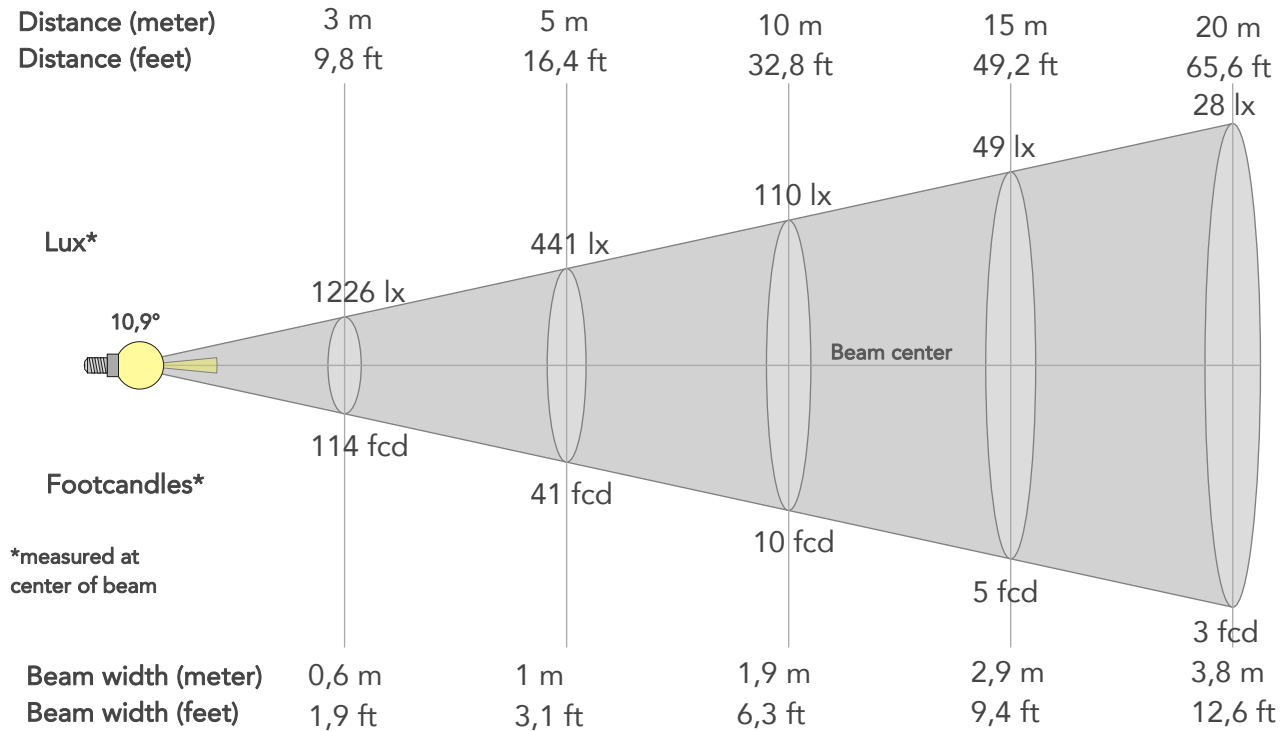
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	83	-7%	7%
3	79	-2%	11%
4	86	5%	8%
5	90	7%	5%
6	90	6%	-2%
7	84	2%	-10%
8	93	-1%	-4%
9	91	-5%	-3%
10	90	-5%	2%
11	88	-3%	7%
12	87	4%	2%
13	88	5%	-6%
14	83	4%	-13%
15	83	0%	-11%
16	81	-9%	-12%



BEAM DETAILS



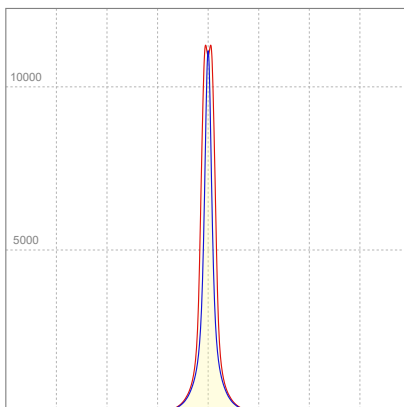
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,9°	25°	47,4°	99,9%	97,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	11032lx	2758lx	1226lx	689lx	441lx	196lx	110lx	49lx	28lx	18lx	12lx	7lx	4lx
Footcand.	1025fcd	256fcd	114fcd	64fcd	41fcd	18fcd	10fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,4m	1,9m	2,9m	3,8m	4,8m	5,7m	7,7m	9,6m
Beam wid.	0,6ft	1,3ft	1,9ft	2,5ft	3,1ft	4,7ft	6,3ft	9,4ft	12,6ft	15,7ft	18,9ft	25,1ft	31,4ft

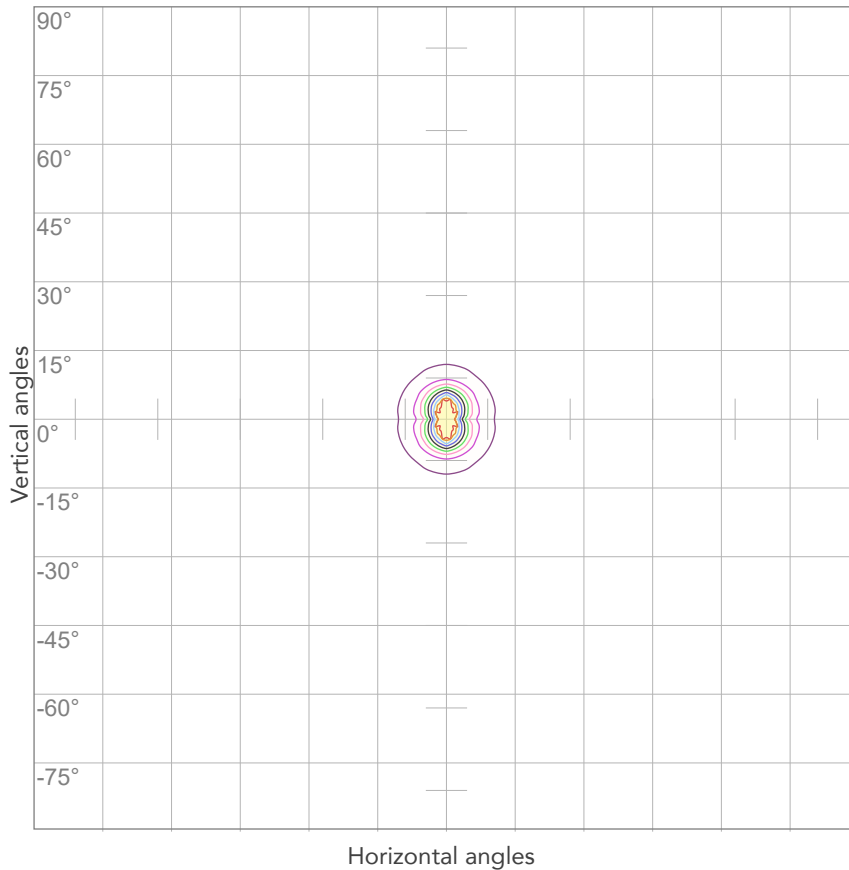
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,140A	23,6W	38lm/W

ISO CANDELA DIAGRAM



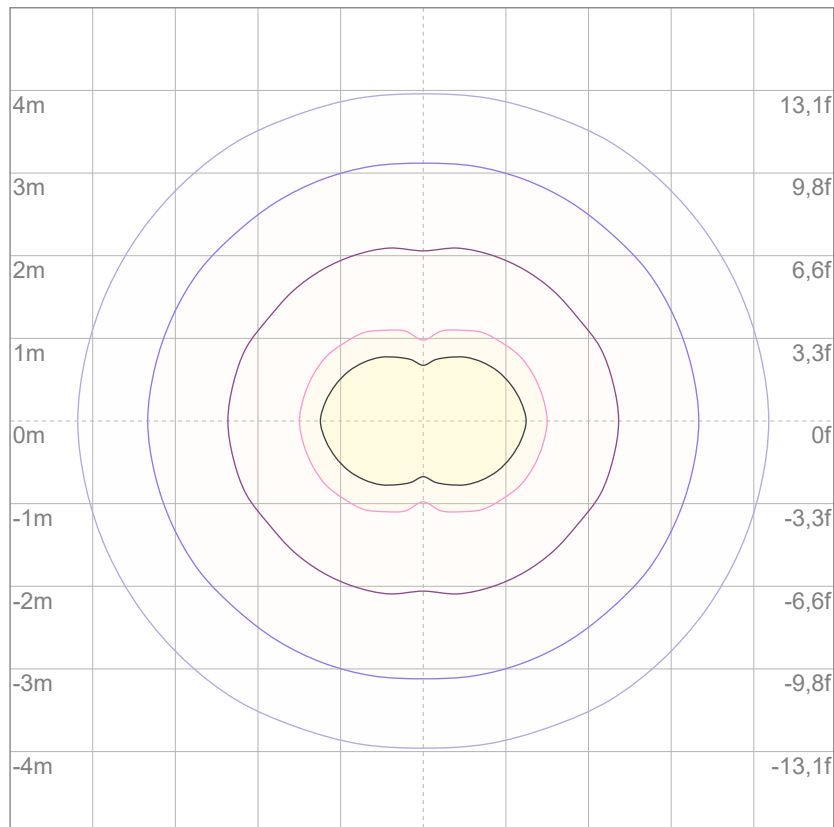
10%	1103 cd
20%	2206 cd
30%	3310 cd
40%	4413 cd
50%	5516 cd
60%	6619 cd
70%	7722 cd
80%	8826 cd

Conditions:

Number of c-planes: 4

Candela at center: 11032 cd

ISO LUX DIAGRAM



3%	3,31 lx
5%	5,52 lx
10%	11,0 lx
30%	33,1 lx
50%	55,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 110 lx

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



Total lumen output:

848 lm

Peak candela output:

2286 cd

Light quality:

CRI: 85,4

Color temperature:

2944 K

PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 20°

Target:

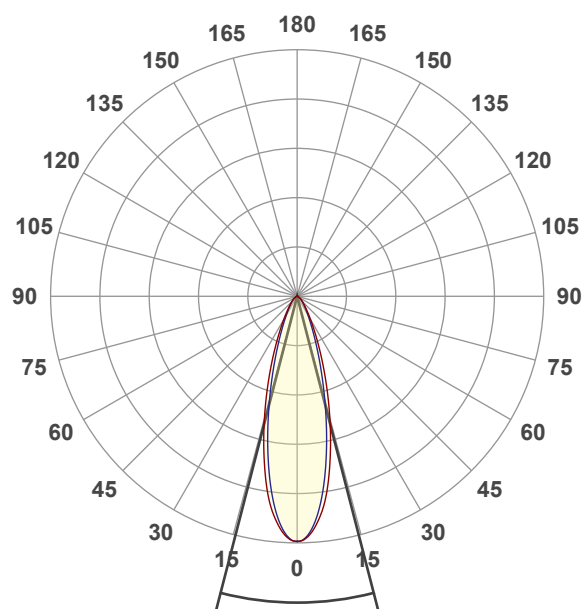
White

Operator:

Paolo Carvone

Date and time:

23/03/2022 15:46:09

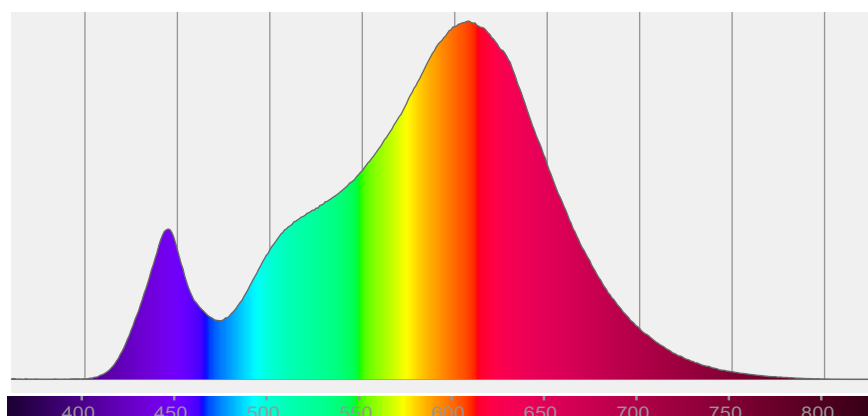


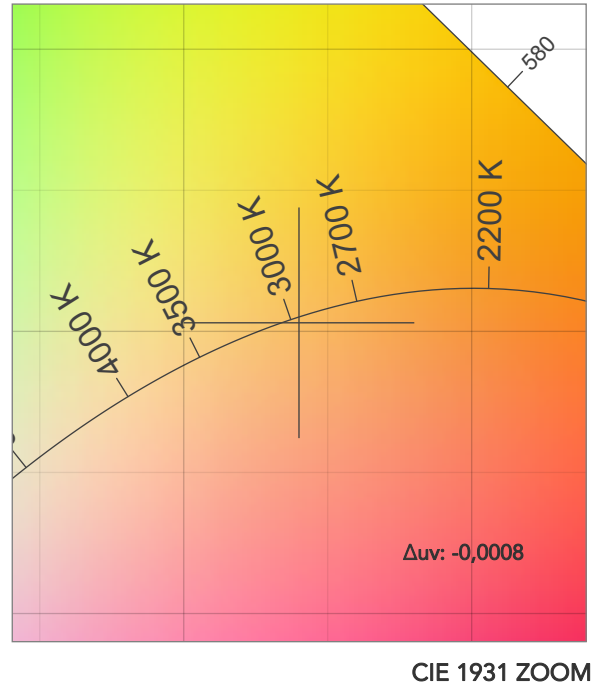
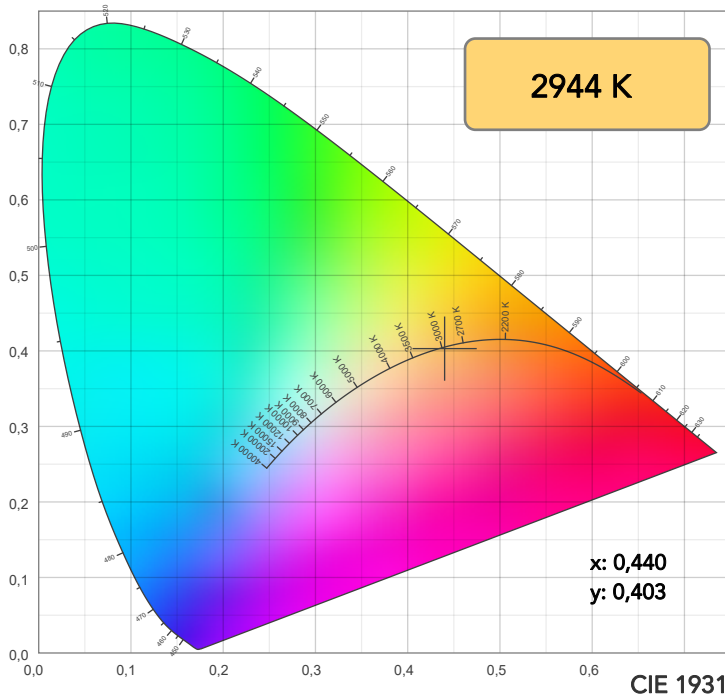
Beam angle 50%: 28,9°

Field angle 10%: 59,5°

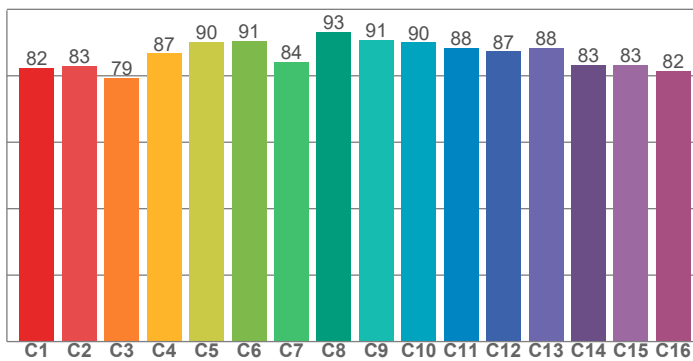
Cut off angle 2.5%: 93,7°

Spectra

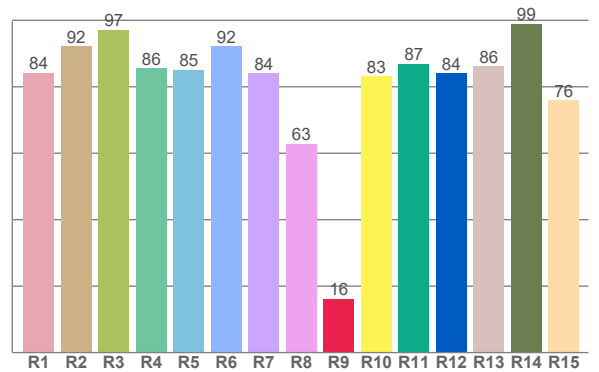




TM30: 86,4



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
84,2	92,3	97,1	85,5	85,1	92,2	84,1	62,9	16,2	83,2	87,0	84,1	86,1	98,9	75,9

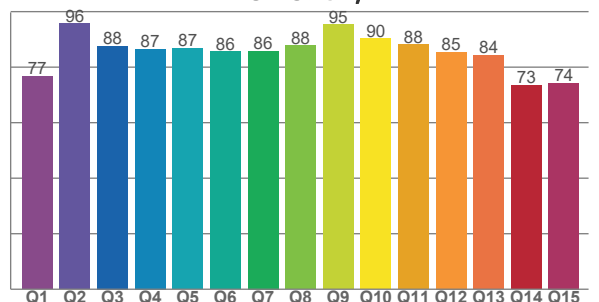
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,3	83,1	79,4	86,7	90,2	90,5	84,2	93,2	90,9	90,1	88,4	87,3	88,3	83,3	83,3	81,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,7	95,7	87,6	86,6	86,8	85,6	85,8	87,8	95,3	90,4	88,1	85,4	84,3	73,5	74,4

CQS: 84,1



COLOR PARAMETERS

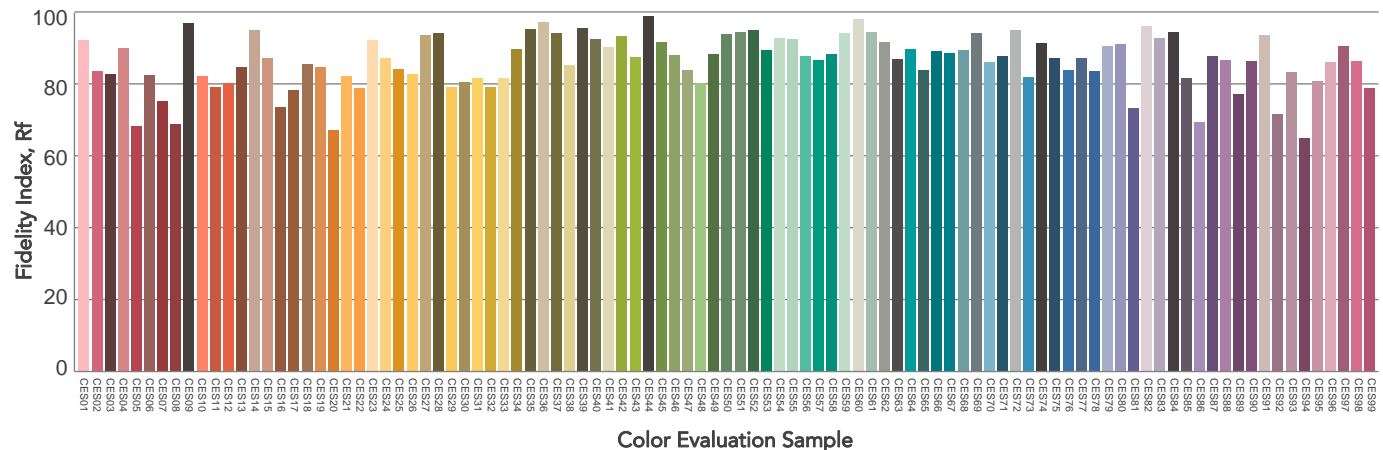
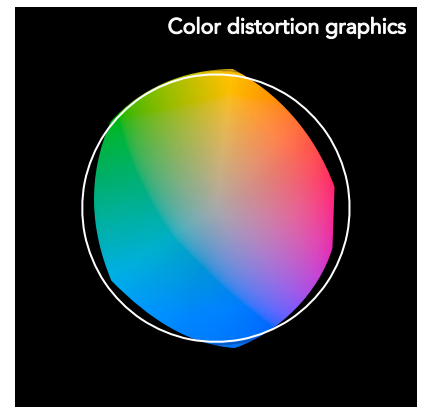
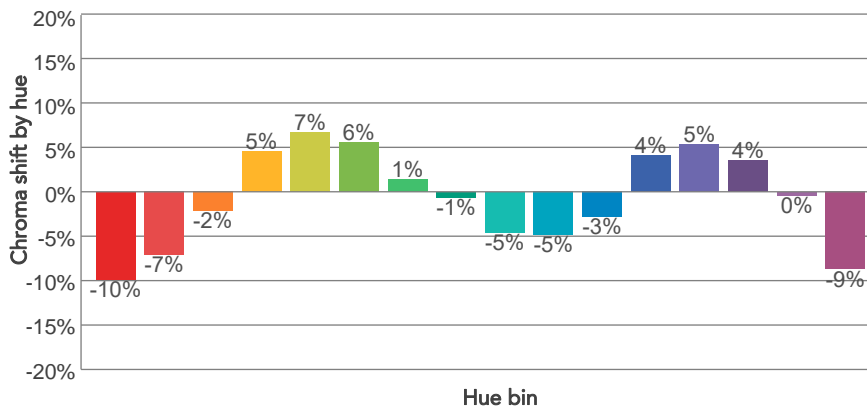
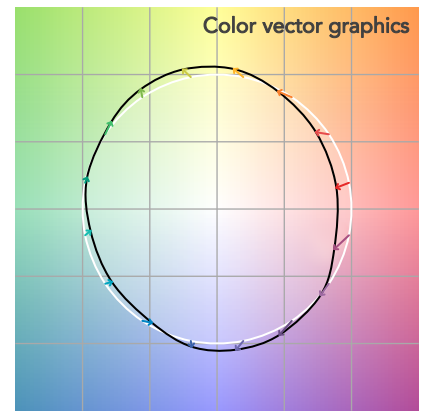
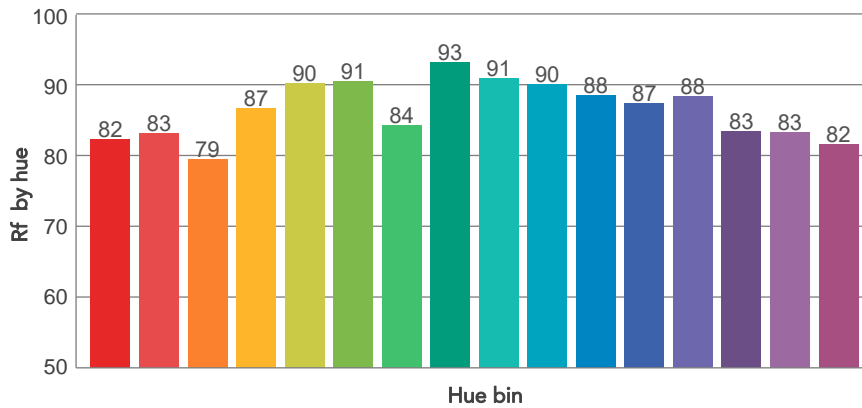
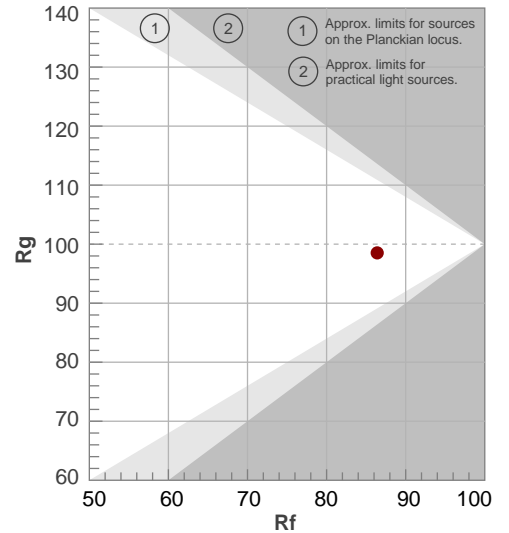
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2944 K	85,4	16,2	86,4	98,5	84,1	69	0,440	0,403	-0,0008

TM30 DETAILS

Rf 86,4
Fidelity index Rf

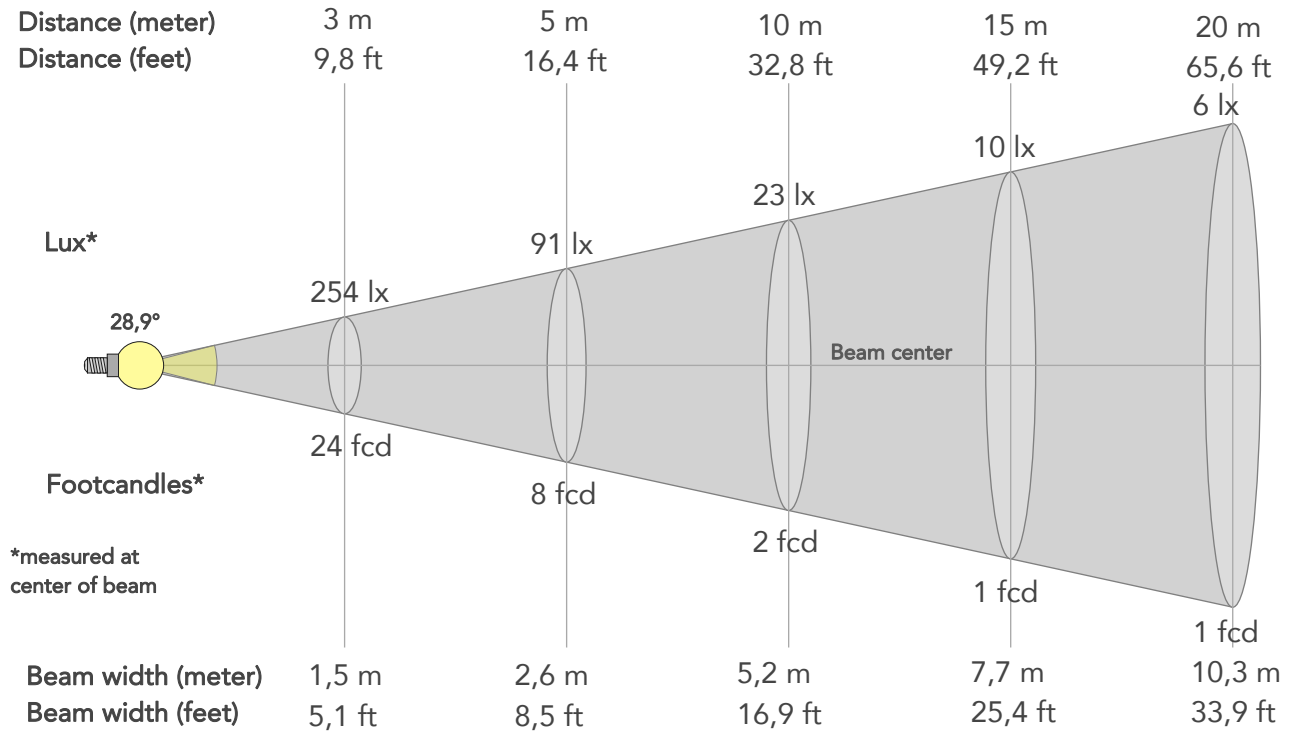
Rg 98,5
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	83	-7%	7%
3	79	-2%	11%
4	87	5%	8%
5	90	7%	5%
6	91	6%	-2%
7	84	1%	-10%
8	93	-1%	-4%
9	91	-5%	-2%
10	90	-5%	2%
11	88	-3%	7%
12	87	4%	1%
13	88	5%	-7%
14	83	4%	-13%
15	83	0%	-10%
16	82	-9%	-12%



BEAM DETAILS

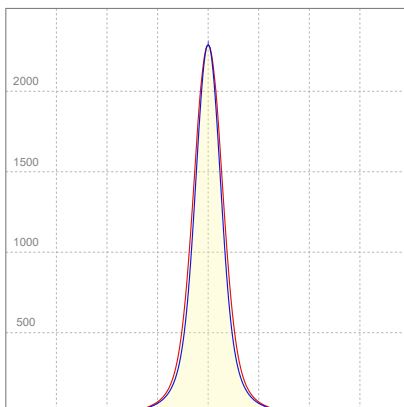
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28,9°	59,5°	93,7°	98,2%	92,1%



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	2286lx	571lx	254lx	143lx	91lx	41lx	23lx	10lx	6lx	4lx	3lx	1lx	1lx
Footcand.	212fcd	53fcd	24fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2,1m	2,6m	3,9m	5,2m	7,7m	10,3m	12,9m	15,5m	20,7m	25,8m
Beam wid.	1,7ft	3,4ft	5,1ft	6,8ft	8,5ft	12,7ft	16,9ft	25,4ft	33,9ft	42,3ft	50,8ft	67,7ft	84,7ft

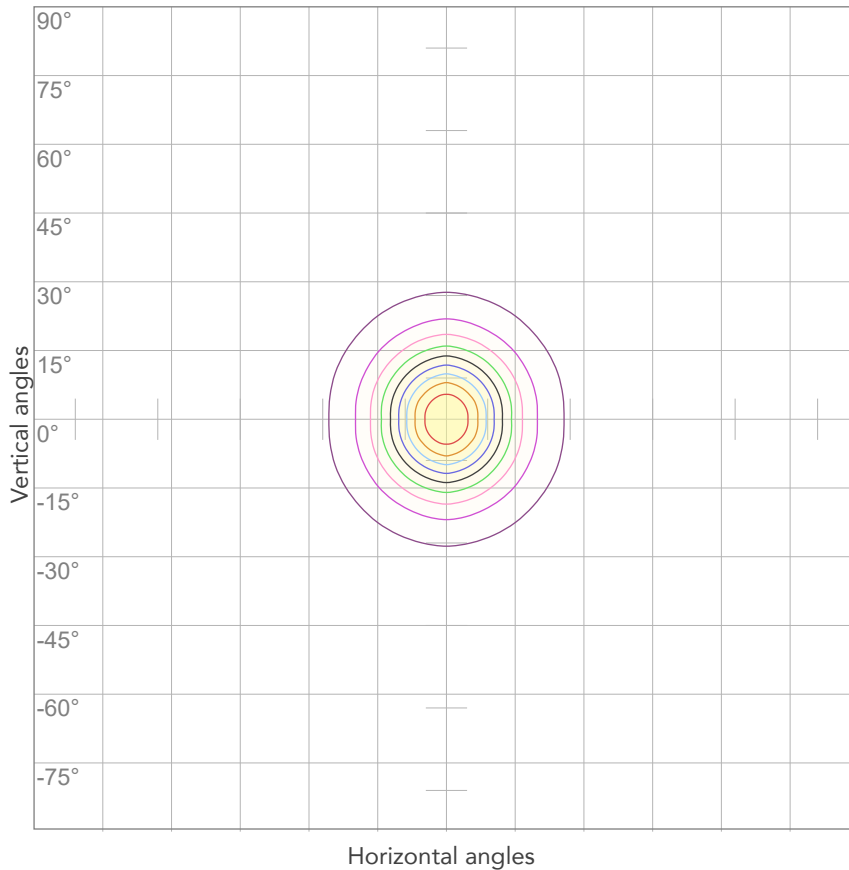
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,141A	23,6W	36lm/W

ISO CANDELA DIAGRAM



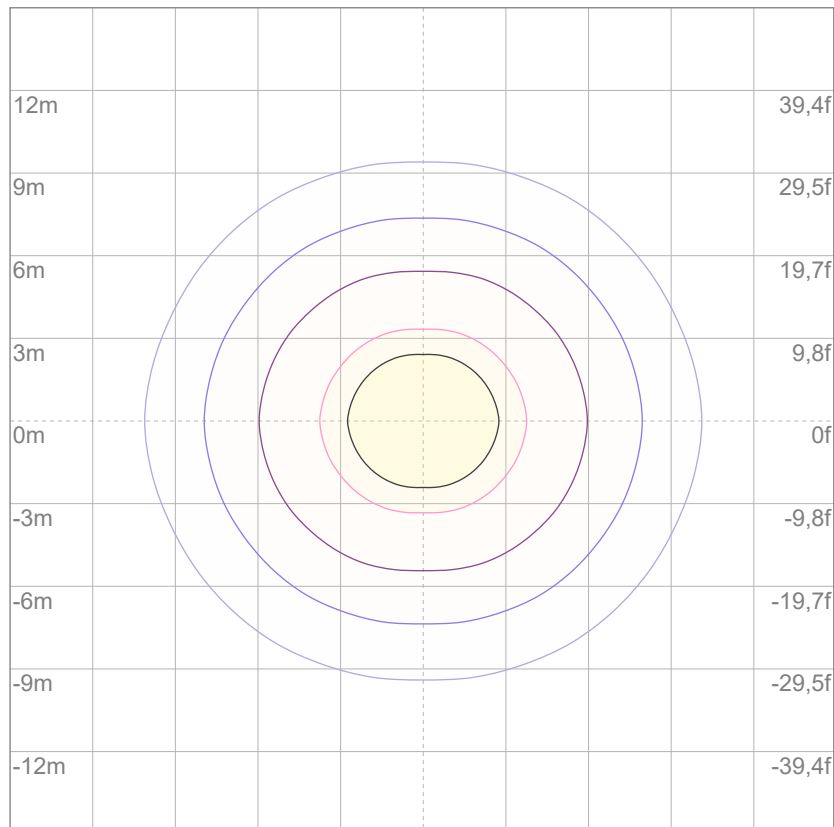
10%	229 cd
20%	457 cd
30%	686 cd
40%	914 cd
50%	1143 cd
60%	1371 cd
70%	1600 cd
80%	1829 cd

Conditions:

Number of c-planes: 4

Candela at center: 2286 cd

ISO LUX DIAGRAM



3%	0,686 lx
5%	1,14 lx
10%	2,29 lx
30%	6,86 lx
50%	11,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 22,9 lx

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



Total lumen output:

818 lm

Peak candela output:

873 cd

Light quality:

CRI: 85,1

Color temperature:

2937 K

PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 40°

Target:

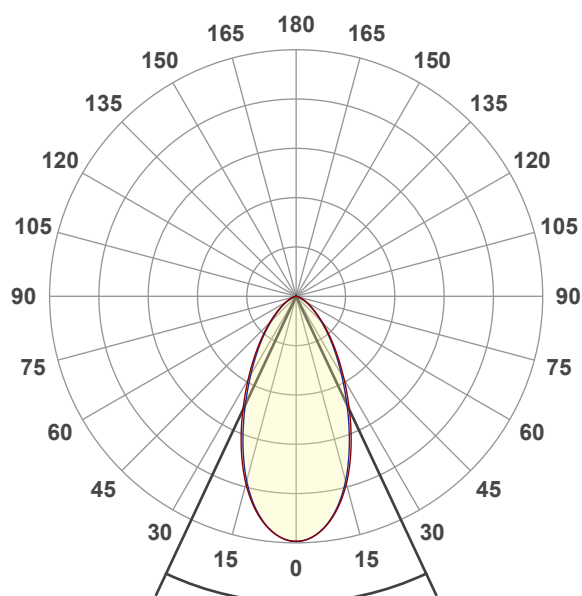
White

Operator:

Paolo Carvone

Date and time:

24/03/2022 11:45:41

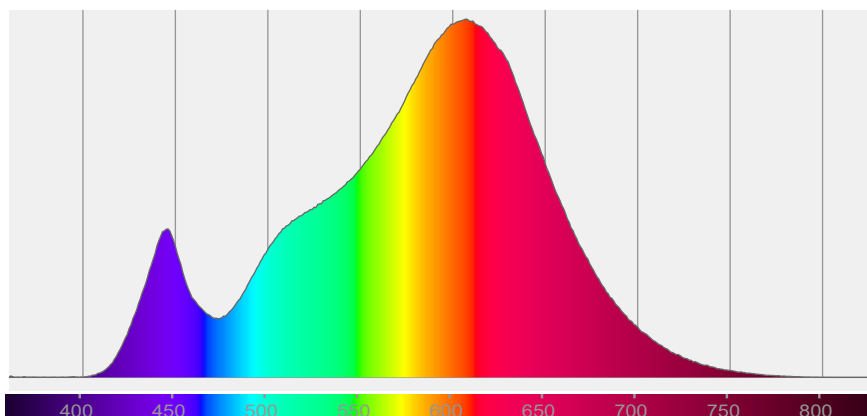


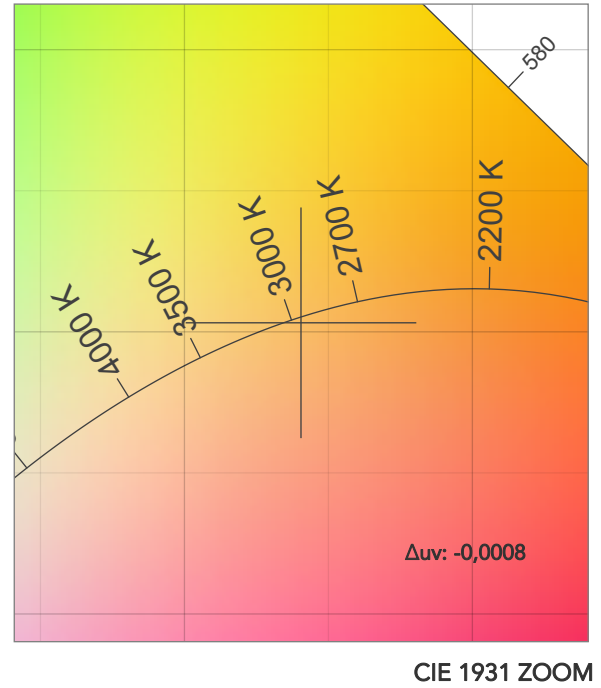
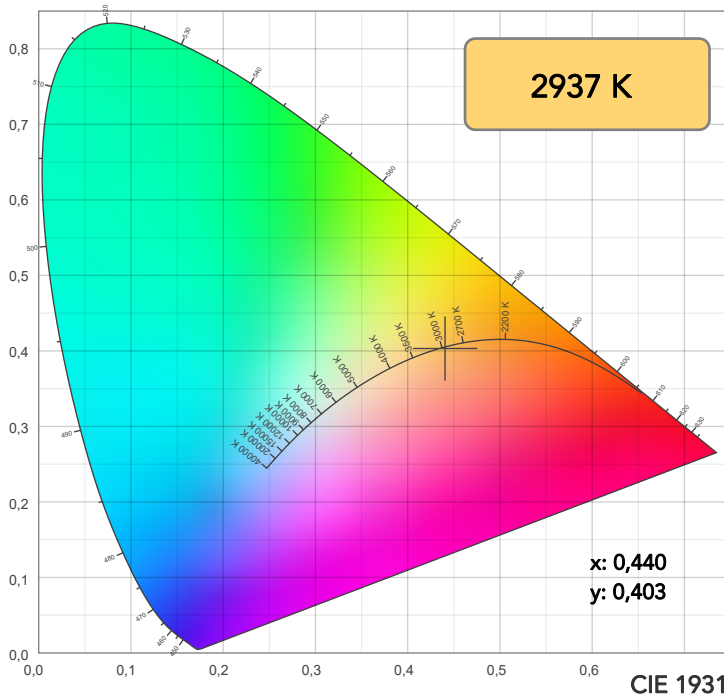
Beam angle 50%: 50,2°

Field angle 10%: 101°

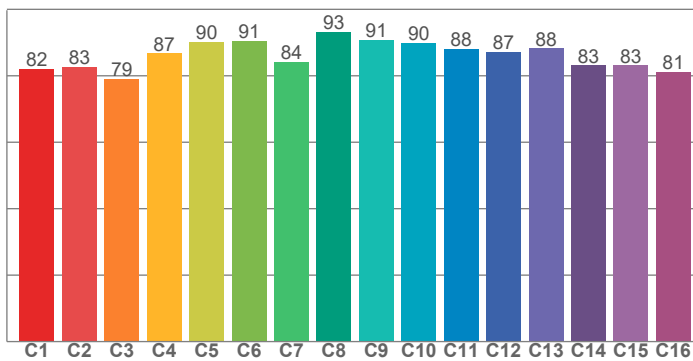
Cut off angle 2.5%: 133,9°

Spectra

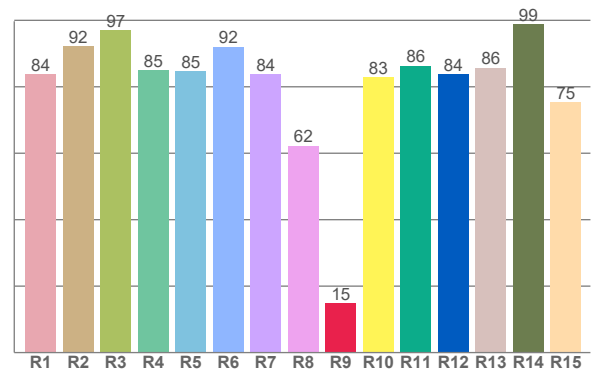




TM30: 86,2



CRI: 85,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83,8	92,1	97,0	85,0	84,7	92,0	83,8	62,2	14,9	82,9	86,4	83,7	85,8	98,9	75,4

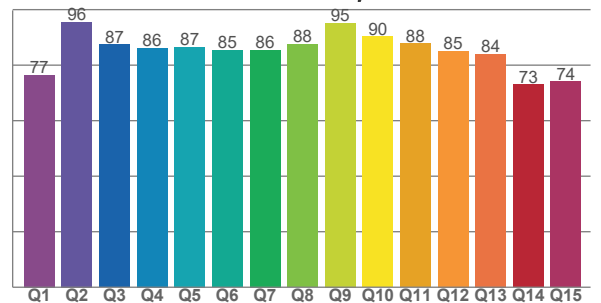
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,0	82,8	79,1	86,7	90,3	90,6	84,2	93,2	90,8	89,9	88,2	87,2	88,2	83,1	83,1	81,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,5	95,6	87,4	86,2	86,5	85,4	85,5	87,5	95,2	90,2	87,8	85,1	84,0	73,1	74,0

CQS: 83,9



COLOR PARAMETERS

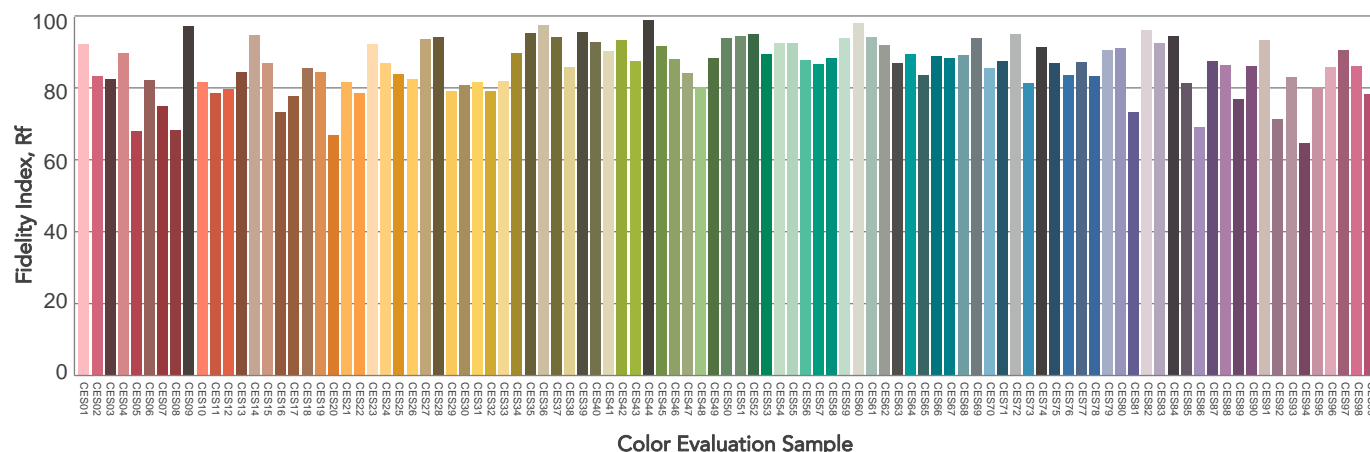
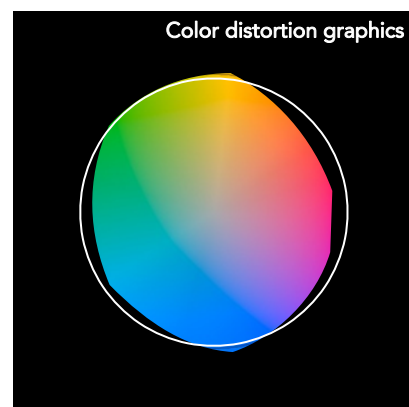
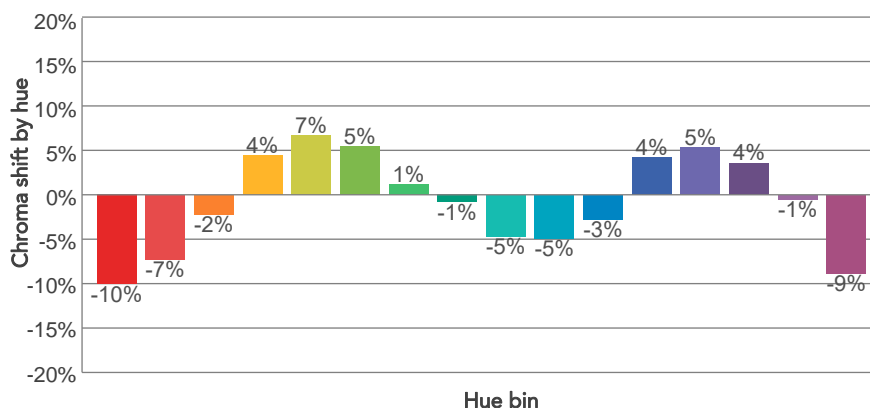
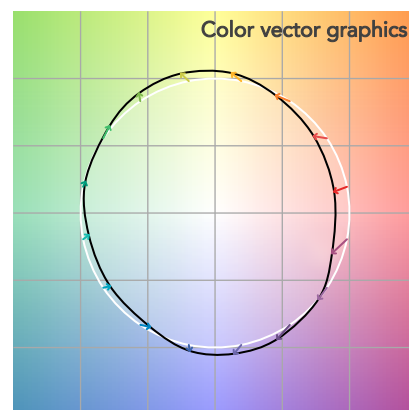
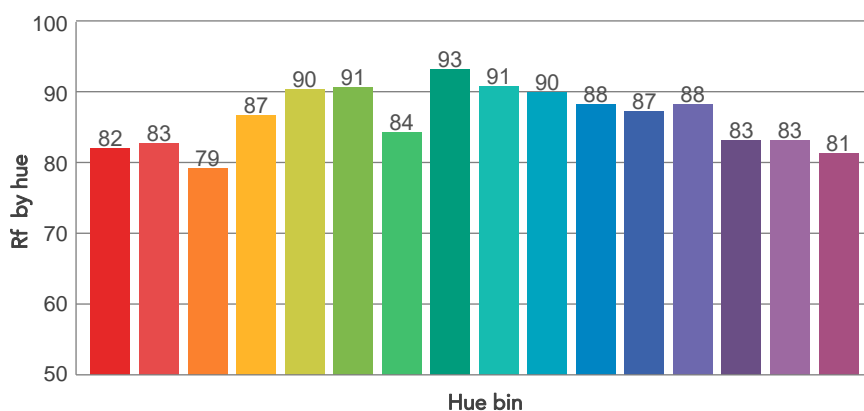
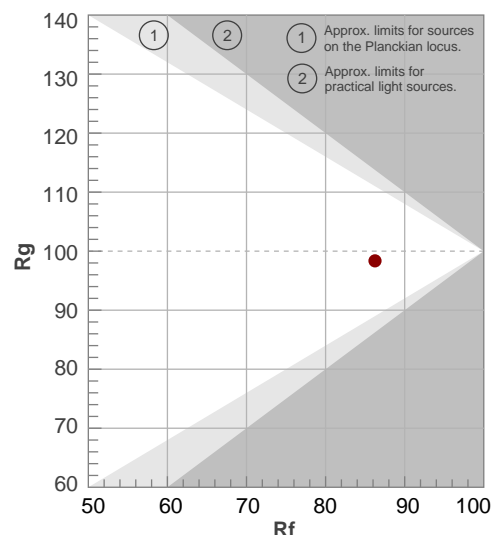
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2937 K	85,1	14,9	86,2	98,4	83,9	68	0,440	0,403	-0,0008

TM30 DETAILS

Rf 86,2
Fidelity index Rf

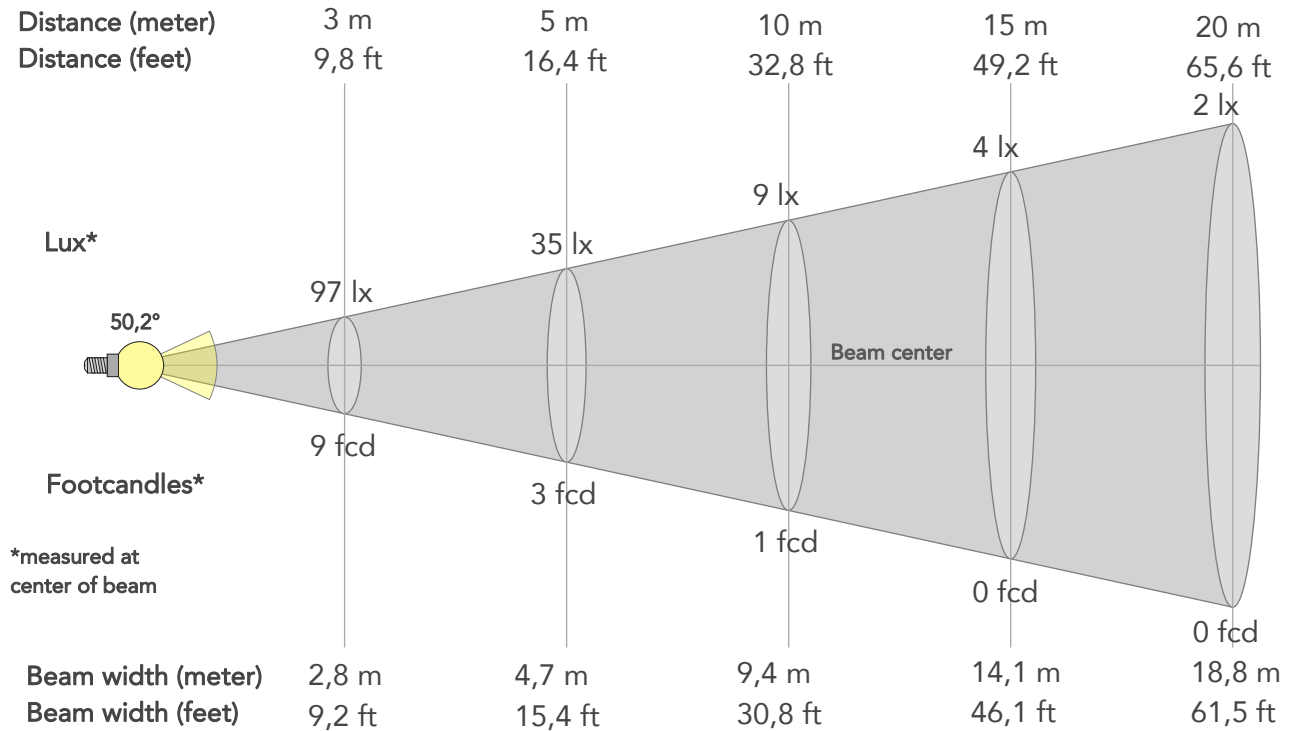
Rg 98,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	83	-7%	7%
3	79	-2%	11%
4	87	4%	8%
5	90	7%	5%
6	91	5%	-2%
7	84	1%	-10%
8	93	-1%	-4%
9	91	-5%	-2%
10	90	-5%	2%
11	88	-3%	7%
12	87	4%	2%
13	88	5%	-7%
14	83	4%	-14%
15	83	-1%	-11%
16	81	-9%	-12%



BEAM DETAILS

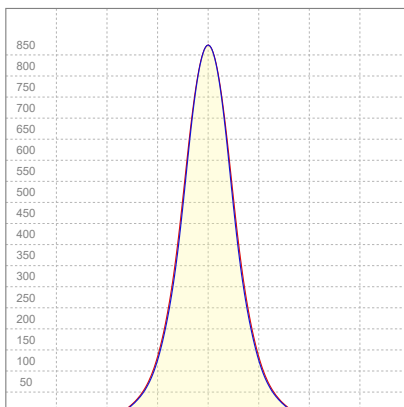
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50,2°	101°	133,9°	95,8%	83,5%



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	873lx	218lx	97lx	55lx	35lx	16lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	81fcd	20fcd	9fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,8m	4,7m	7m	9,4m	14,1m	18,8m	23,4m	28,1m	37,5m	46,9m
Beam wid.	3,1ft	6,2ft	9,2ft	12,3ft	15,4ft	23,1ft	30,8ft	46,1ft	61,5ft	76,9ft	92,3ft	123ft	153,8ft

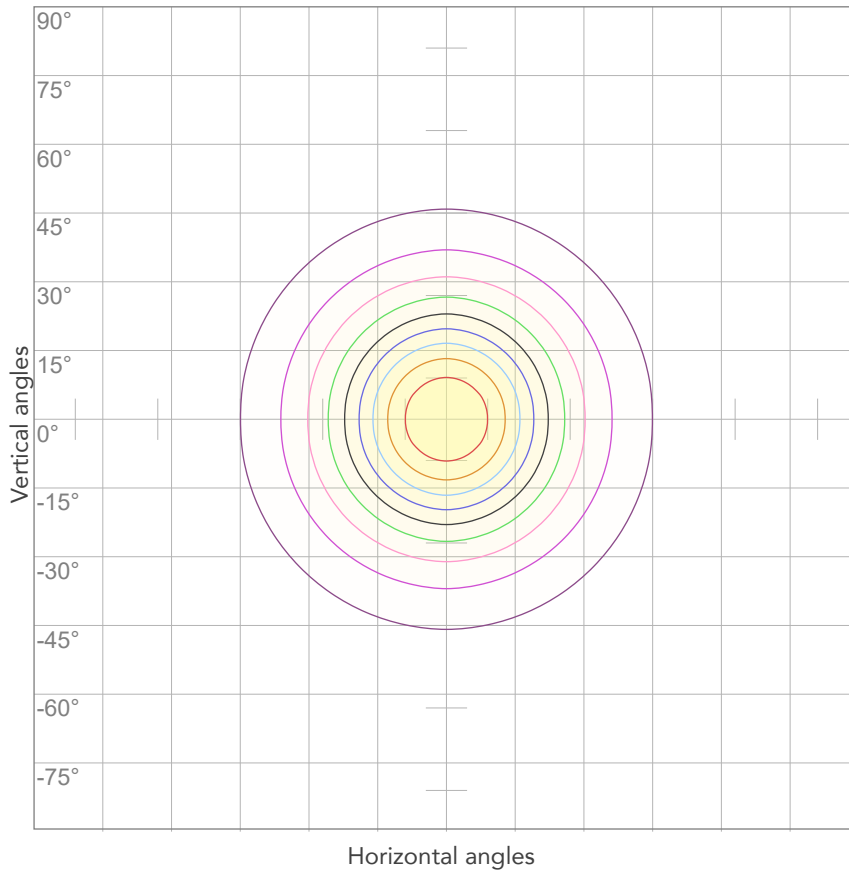
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,140A	23,4W	35lm/W

ISO CANDELA DIAGRAM



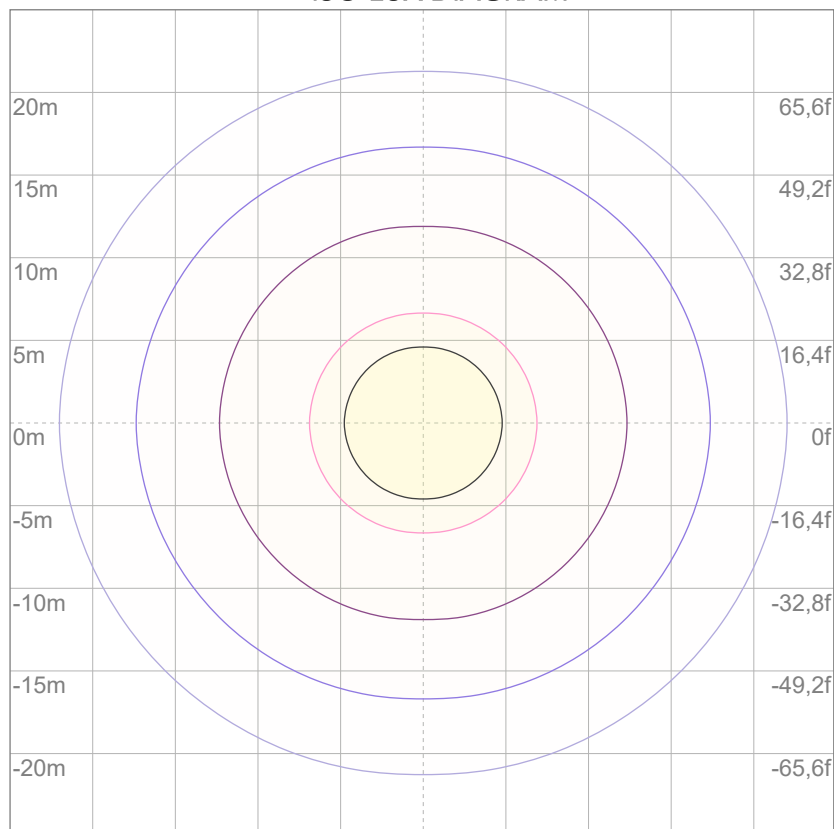
10%	87 cd
20%	175 cd
30%	262 cd
40%	349 cd
50%	436 cd
60%	524 cd
70%	611 cd
80%	698 cd

Conditions:

Number of c-planes: 4

Candela at center: 873 cd

ISO LUX DIAGRAM



3%	0,262 lx
5%	0,436 lx
10%	0,873 lx
30%	2,62 lx
50%	4,36 lx

Conditions:

Number of c-planes: 4

Lux at center: 8,73 lx

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

Total lumen output:

825 lm

Peak candela output:

632 cd

Light quality:

CRI: 85,3

Color temperature:

2948 K



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 60°

Target:

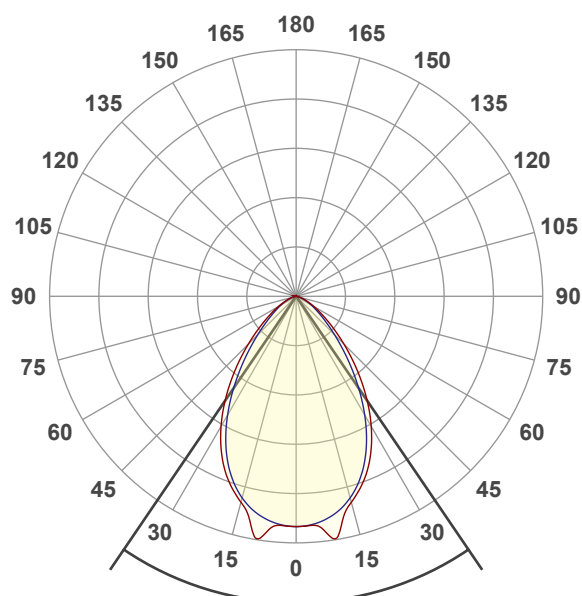
White

Operator:

Paolo Carvone

Date and time:

23/03/2022 16:10:34

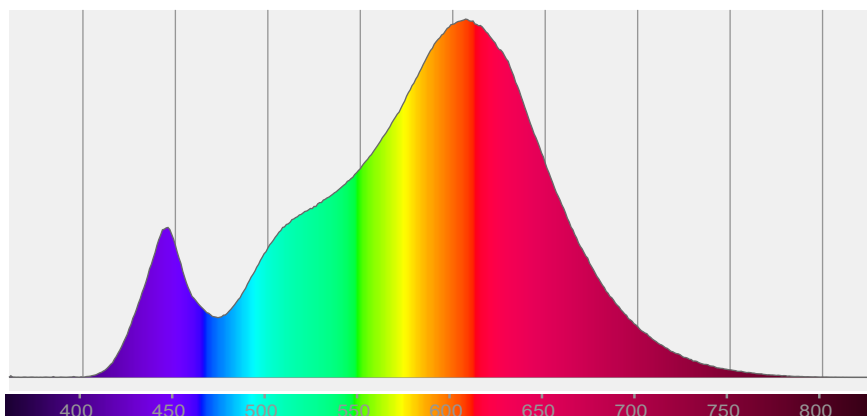


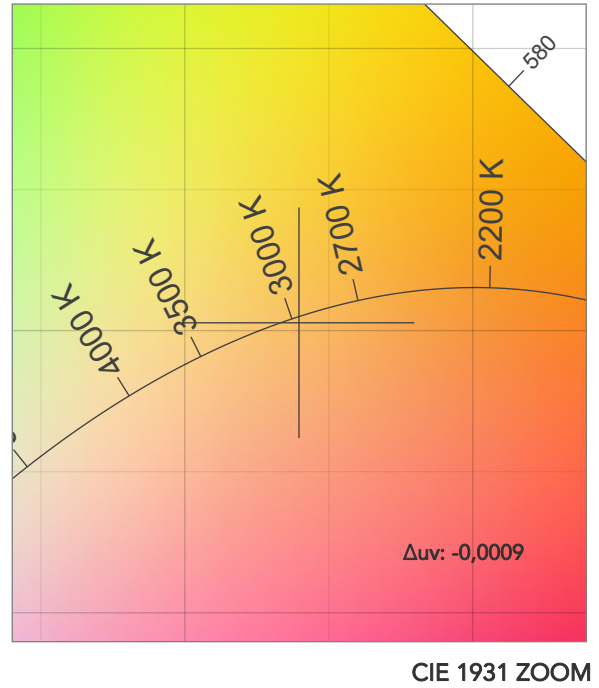
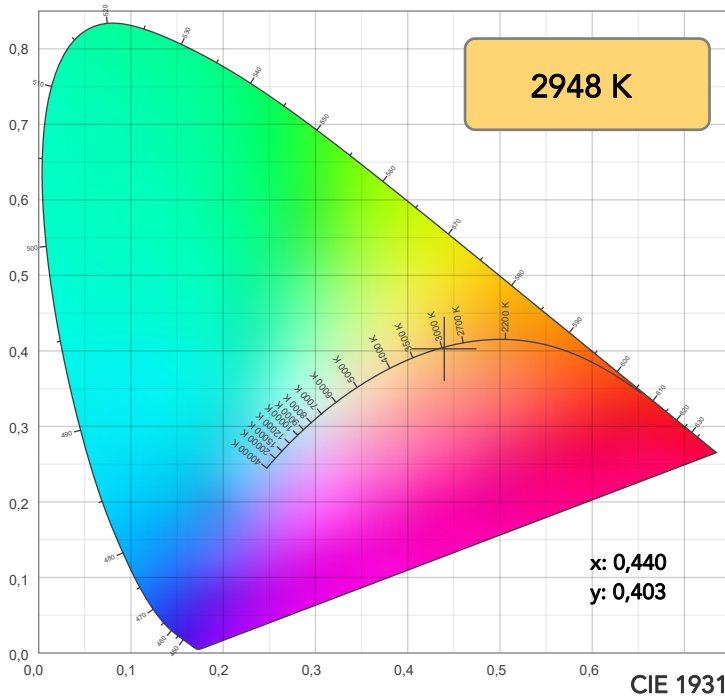
Beam angle 50%: 68,5°

Field angle 10%: 114,4°

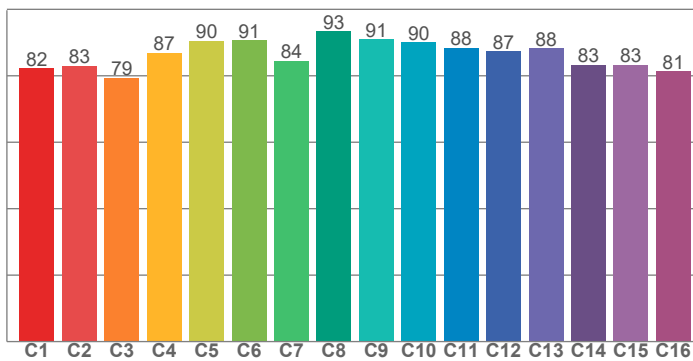
Cut off angle 2.5%: 142°

Spectra

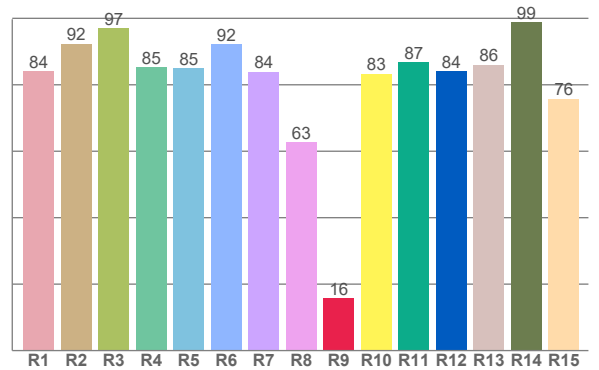




TM30: 86,4



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
84,1	92,3	97,0	85,4	85,0	92,3	84,0	62,7	15,8	83,3	86,7	84,1	86,1	98,9	75,8

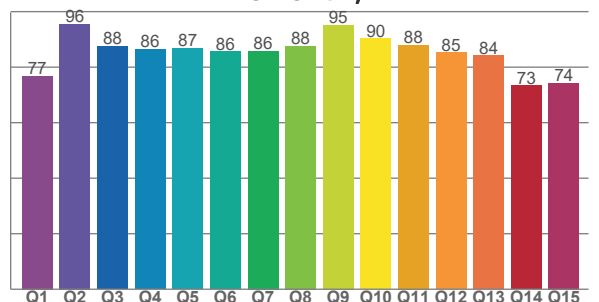
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,2	83,0	79,4	87,0	90,4	90,7	84,5	93,3	91,0	90,1	88,3	87,3	88,3	83,2	83,4	81,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,8	95,6	87,5	86,4	86,8	85,6	85,8	87,7	95,2	90,4	88,0	85,3	84,1	73,4	74,3

CQS: 84,1

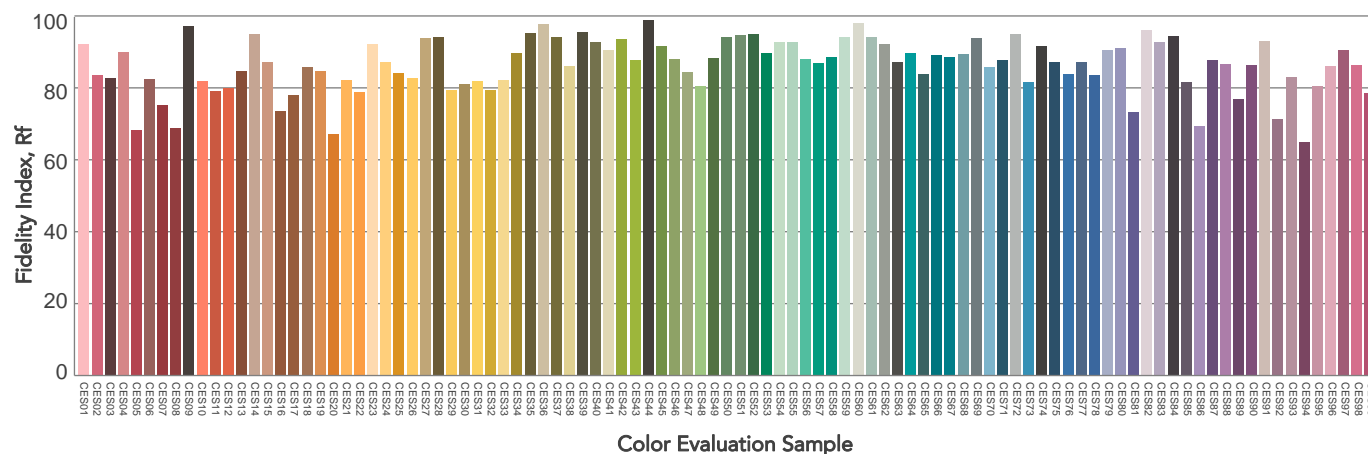


COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2948 K	85,3	15,8	86,4	98,4	84,1	69	0,440	0,403	-0,0009

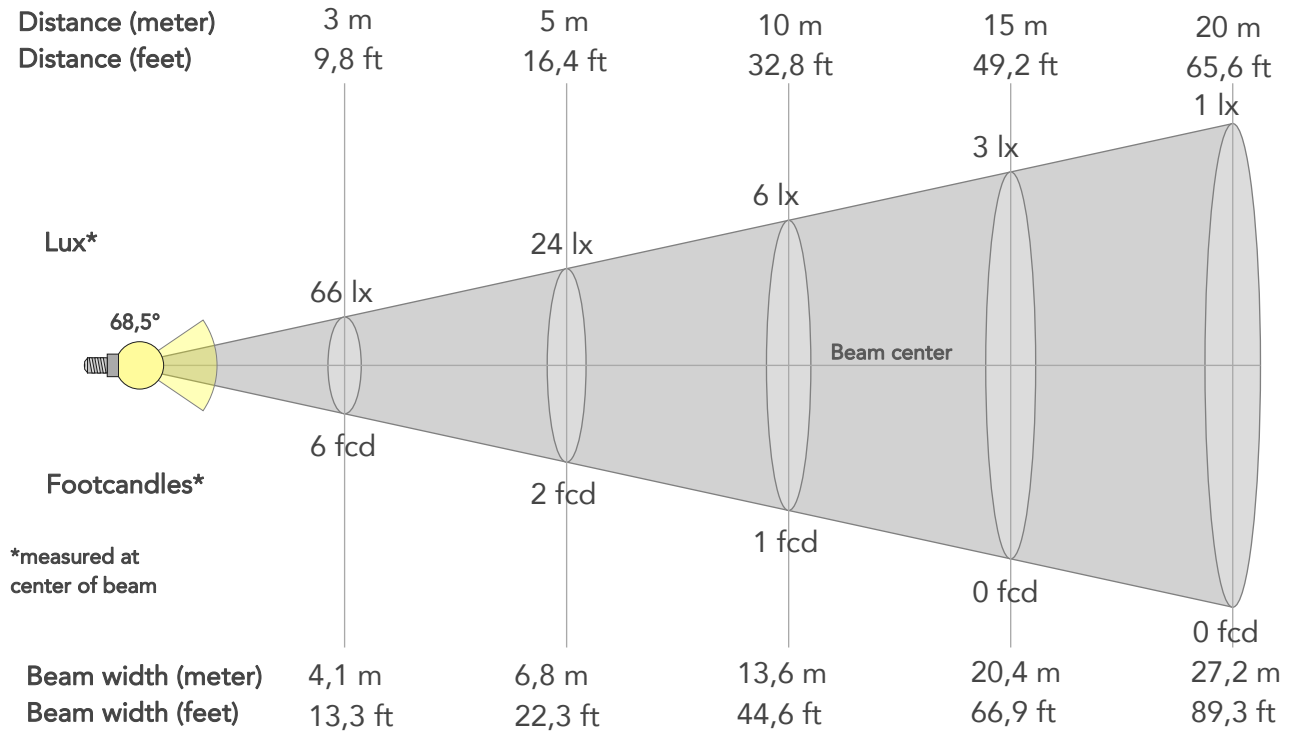
Gammut index

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	82	-10%	-2%
2	83	-7%	7%
3	79	-2%	11%
4	87	4%	8%
5	90	7%	5%
6	91	5%	-2%
7	84	1%	-10%
8	93	-1%	-4%
9	91	-5%	-2%
10	90	-5%	2%
11	88	-3%	7%
12	87	4%	1%
13	88	5%	-7%
14	83	4%	-13%
15	83	-1%	-10%
16	81	-9%	-12%



BEAM DETAILS

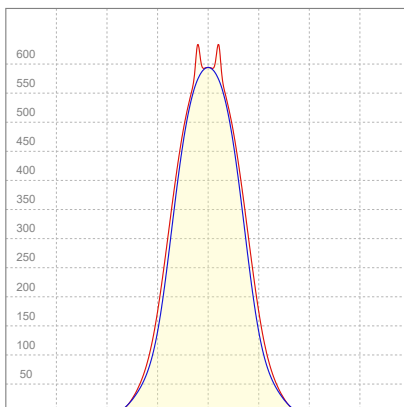
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
68,5°	114,4°	142°	95,1%	80,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	594lx	149lx	66lx	37lx	24lx	11lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	55fcd	14fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,7m	4,1m	5,4m	6,8m	10,2m	13,6m	20,4m	27,2m	34m	40,8m	54,4m	68m
Beam wid.	4,5ft	9ft	13,3ft	17,8ft	22,3ft	33,5ft	44,6ft	66,9ft	89,3ft	111,6ft	133,9ft	178,5ft	223,1ft

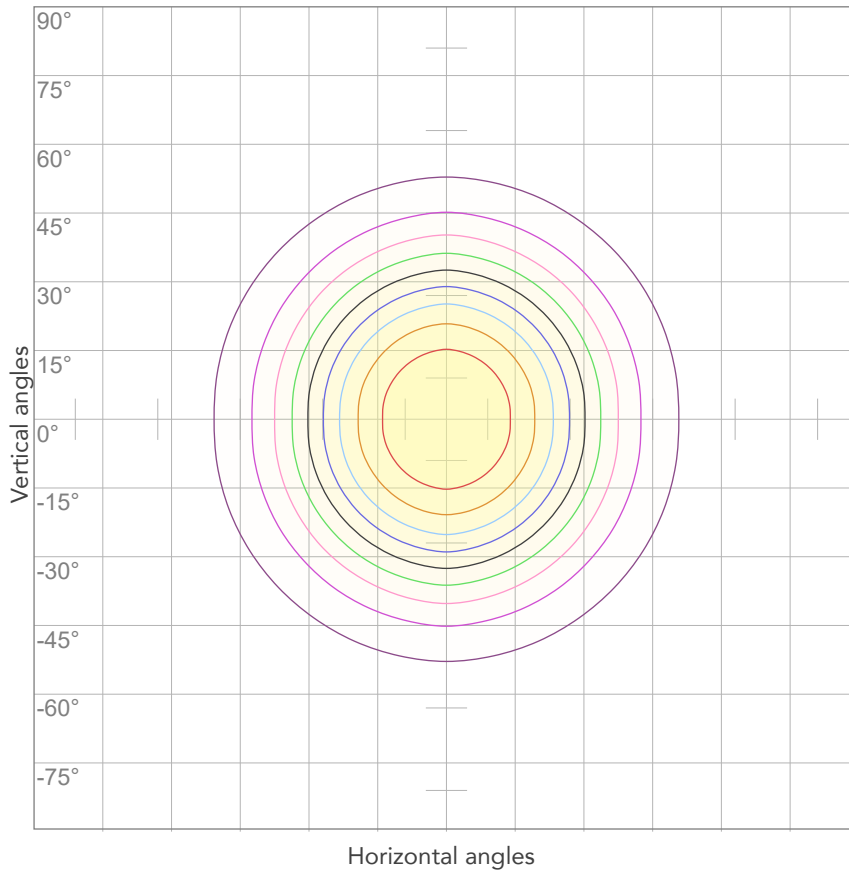
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,140A	23,4W	35lm/W

ISO CANDELA DIAGRAM



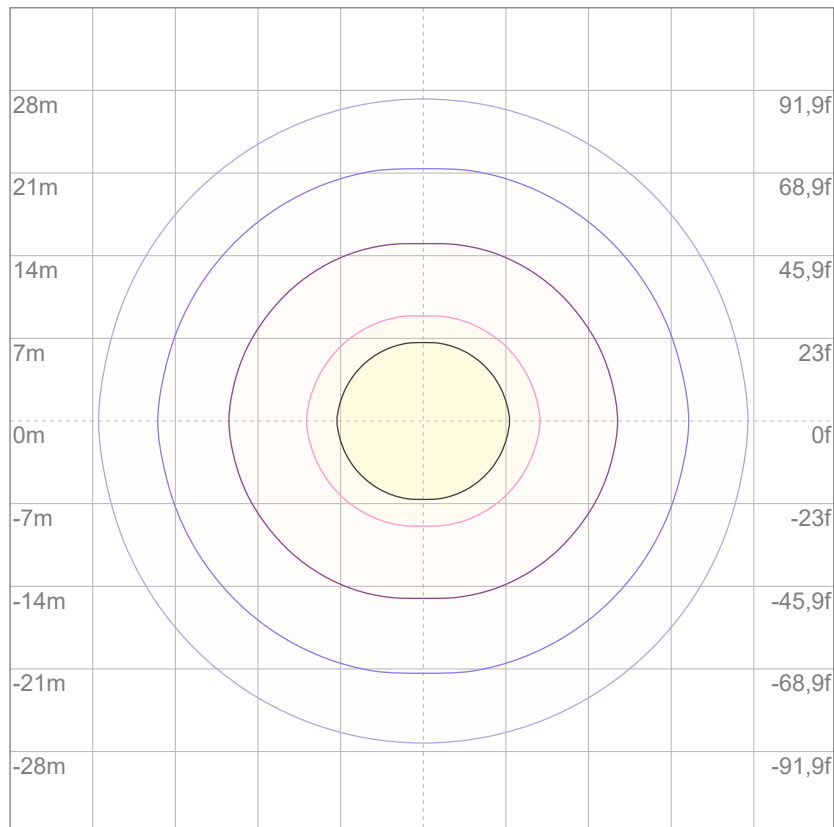
10%	59 cd
20%	119 cd
30%	178 cd
40%	238 cd
50%	297 cd
60%	357 cd
70%	416 cd
80%	475 cd

Conditions:

Number of c-planes: 4

Candela at center: 594 cd

ISO LUX DIAGRAM



3%	0,178 lx
5%	0,297 lx
10%	0,594 lx
30%	1,78 lx
50%	2,97 lx

Conditions:

Number of c-planes: 4

Lux at center: 5,94 lx

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

Total lumen output:

1271 lm

Peak candela output:

1455 cd

Light quality:

CRI: 85,5

Color temperature:

2944 K



PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 10°x 60°

Target:

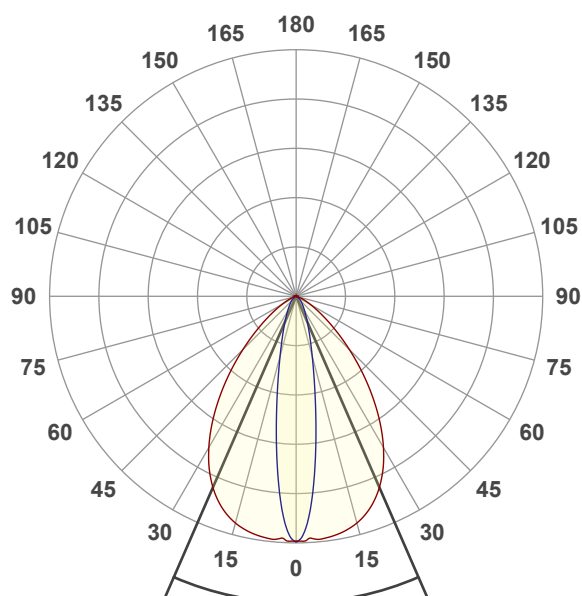
White

Operator:

Paolo Carvone

Date and time:

24/03/2022 09:34:20

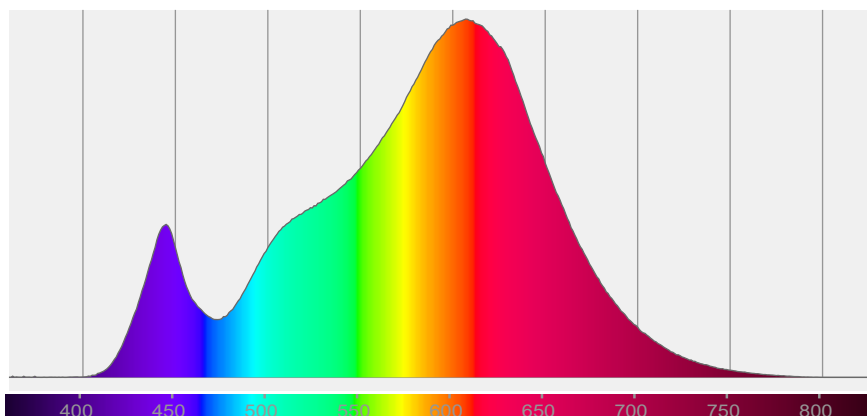


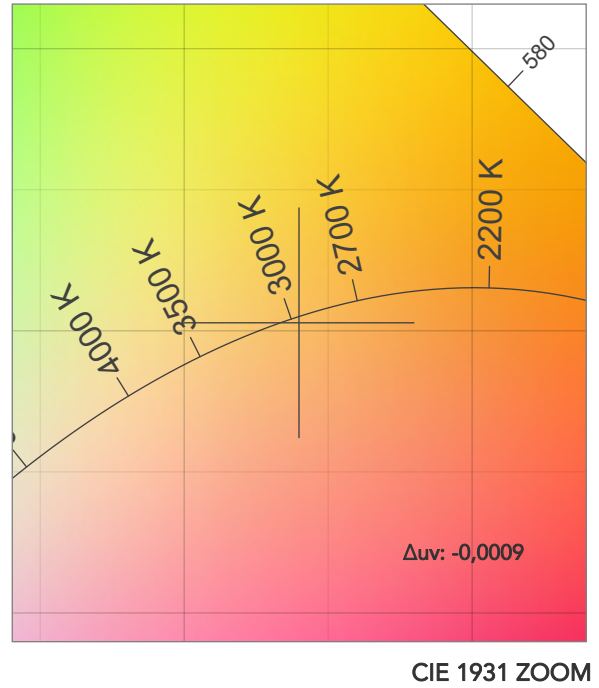
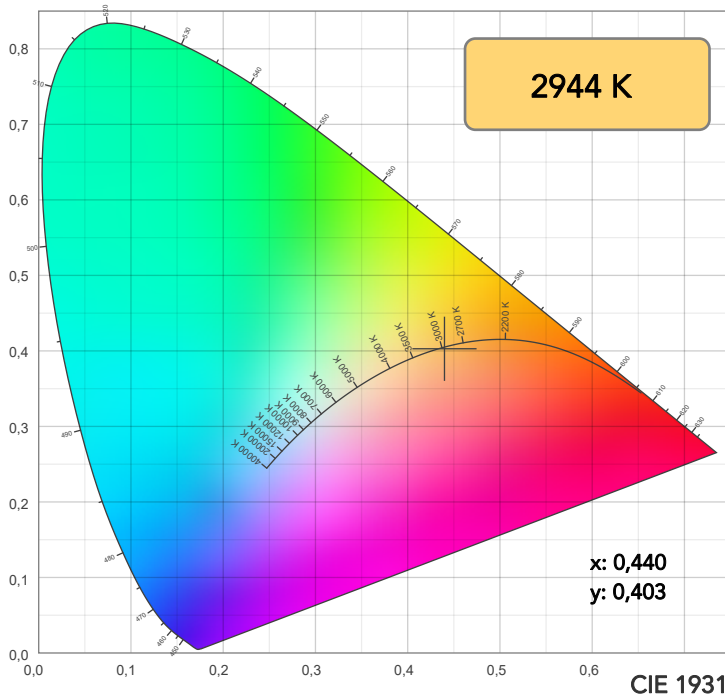
Beam angle 50%: 47,1°

Field angle 10%: 81,9°

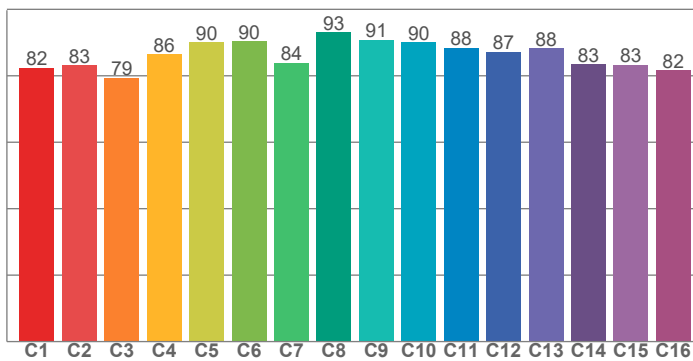
Cut off angle 2.5%: 113,8°

Spectra

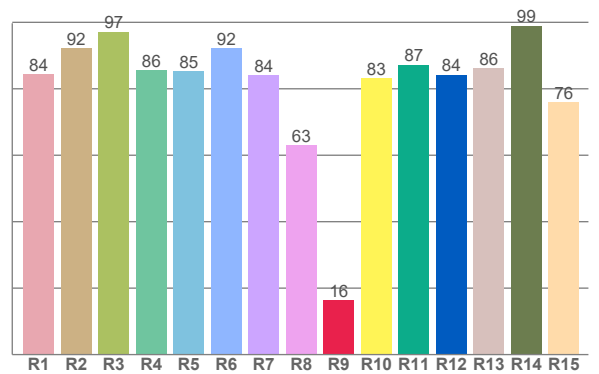




TM30: 86,3



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
84,3	92,3	97,2	85,7	85,2	92,3	84,1	63,0	16,4	83,2	87,2	84,2	86,2	99,0	76,0

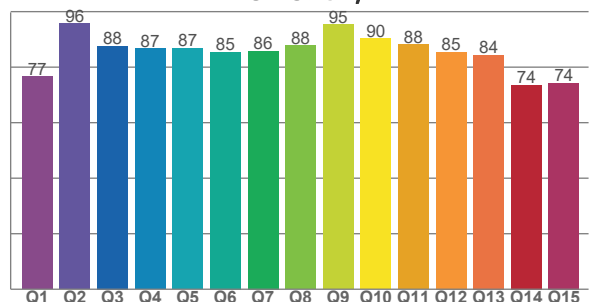
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,4	83,1	79,4	86,5	90,0	90,3	83,9	93,0	90,8	90,1	88,4	87,3	88,3	83,4	83,3	81,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,6	95,7	87,6	86,6	86,8	85,5	85,8	87,8	95,3	90,3	88,1	85,4	84,4	73,5	74,4

CQS: 84,1



COLOR PARAMETERS

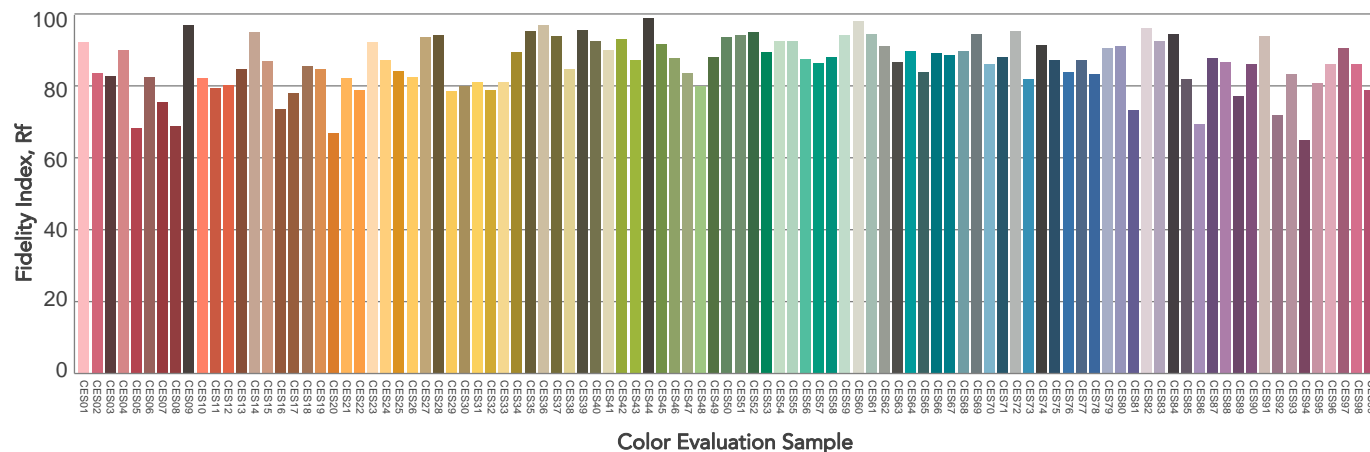
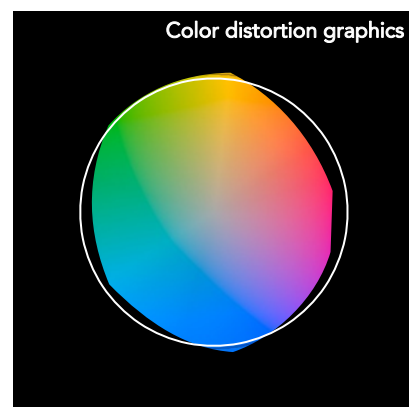
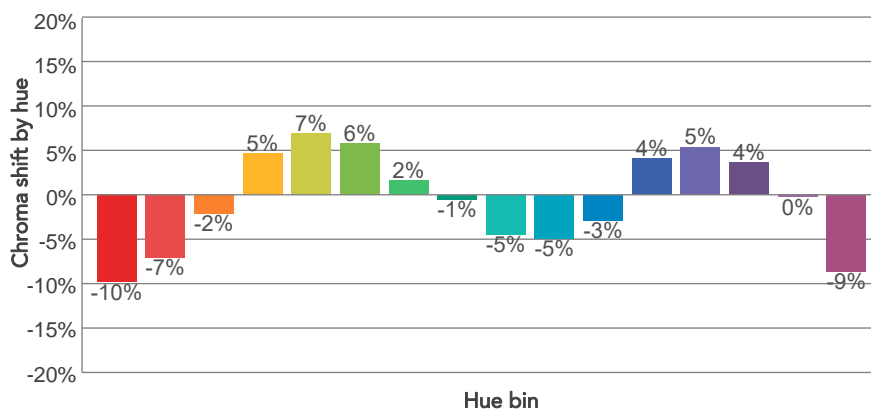
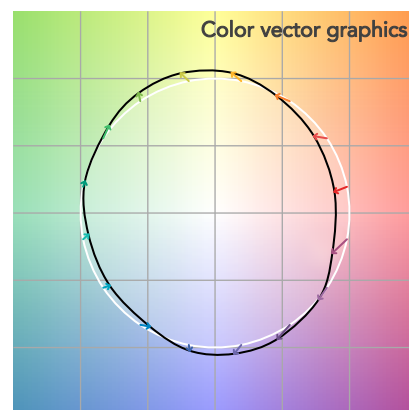
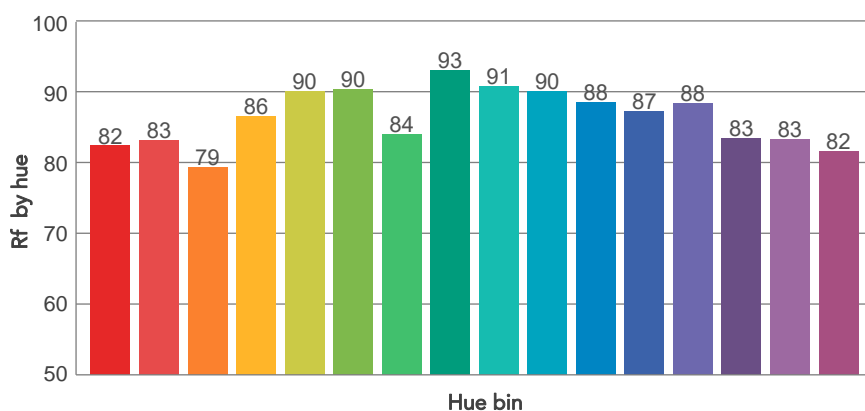
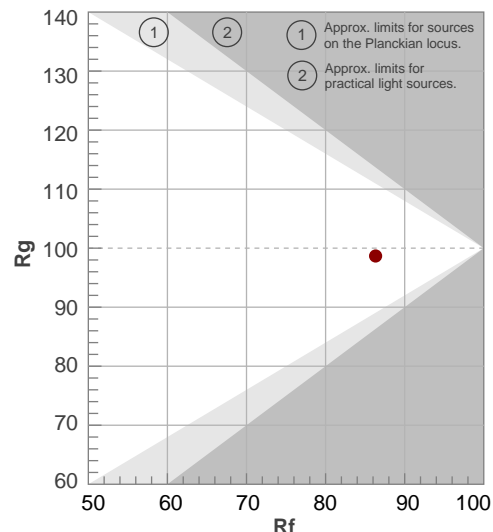
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2944 K	85,5	16,4	86,3	98,7	84,1	69	0,440	0,403	-0,0009

TM30 DETAILS

Rf 86,3
Fidelity index Rf

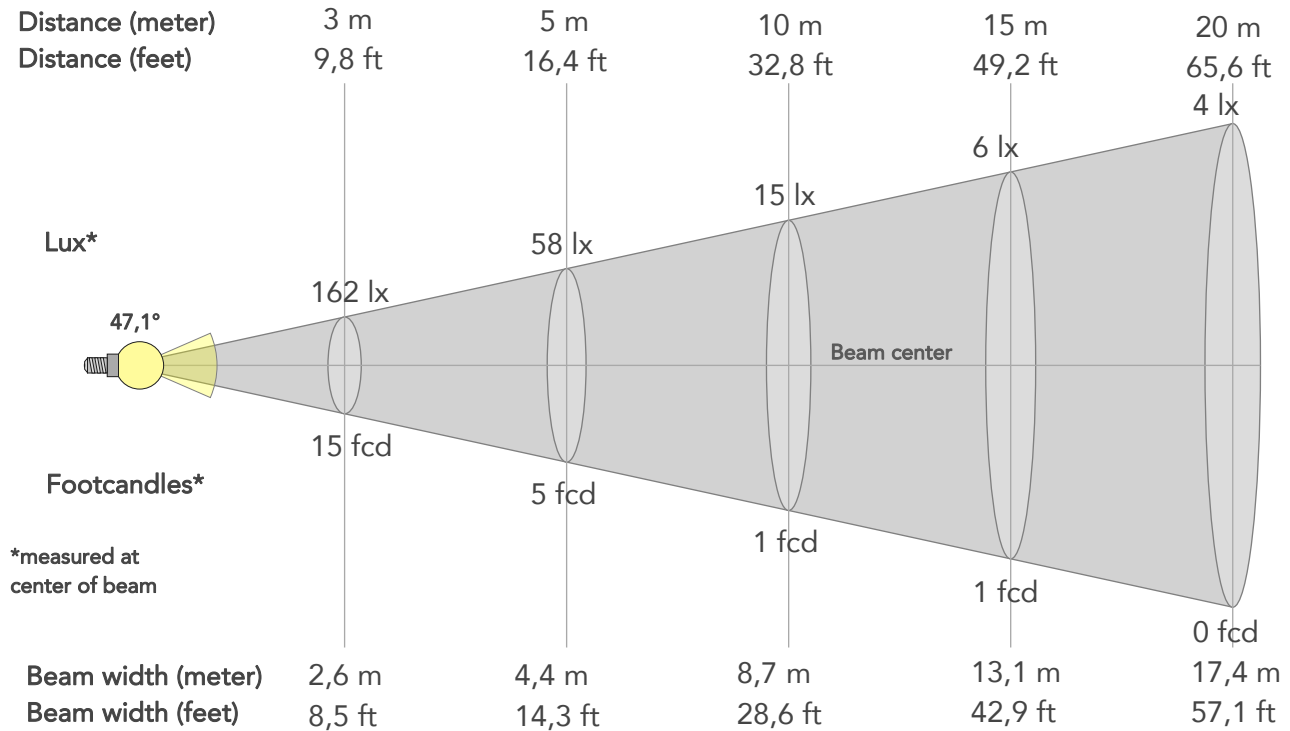
Rg 98,7
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	83	-7%	7%
3	79	-2%	11%
4	86	5%	8%
5	90	7%	5%
6	90	6%	-2%
7	84	2%	-10%
8	93	-1%	-4%
9	91	-5%	-3%
10	90	-5%	1%
11	88	-3%	7%
12	87	4%	2%
13	88	5%	-6%
14	83	4%	-13%
15	83	0%	-10%
16	82	-9%	-12%



BEAM DETAILS

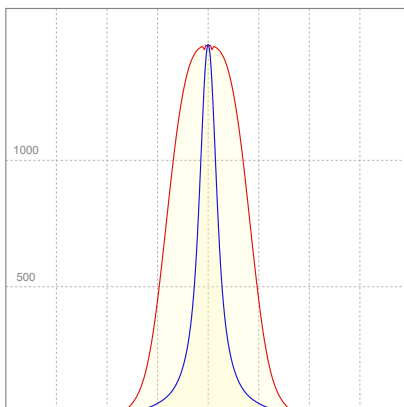
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47,1°	81,9°	113,8°	97,1%	83,8%



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	1454lx	364lx	162lx	91lx	58lx	26lx	15lx	6lx	4lx	2lx	2lx	1lx	1lx
Footcand.	135fcd	34fcd	15fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,4m	6,5m	8,7m	13,1m	17,4m	21,8m	26,1m	34,8m	43,6m
Beam wid.	2,9ft	5,7ft	8,5ft	11,4ft	14,3ft	21,4ft	28,6ft	42,9ft	57,1ft	71,4ft	85,7ft	114,3ft	142,9ft

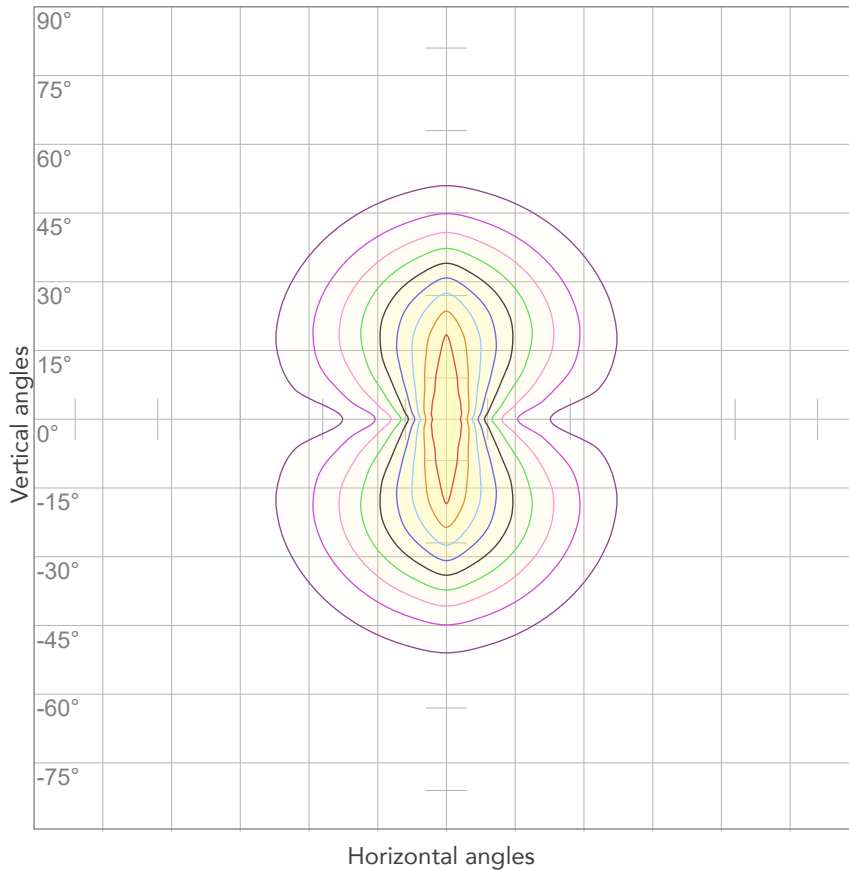
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,142A	23,7W	54lm/W

ISO CANDELA DIAGRAM



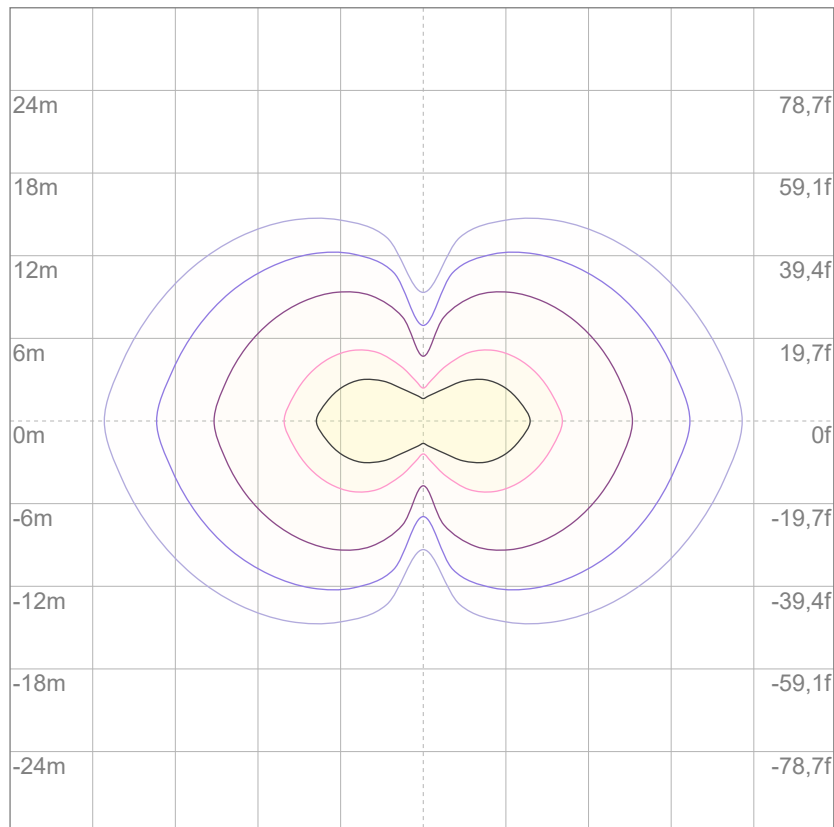
10%	145 cd
20%	291 cd
30%	436 cd
40%	582 cd
50%	727 cd
60%	873 cd
70%	1018 cd
80%	1163 cd

Conditions:

Number of c-planes: 4

Candela at center: 1454 cd

ISO LUX DIAGRAM



3%	0,436 lx
5%	0,727 lx
10%	1,45 lx
30%	4,36 lx
50%	7,27 lx

Conditions:

Number of c-planes: 4

Lux at center: 14,5 lx

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



Total lumen output:

916 lm

Peak candela output:

1058 cd

Light quality:

CRI: 85,2

Color temperature:

2948 K

PRODUCT NAME:

ARCSHINEM18FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 30°x 60°

Target:

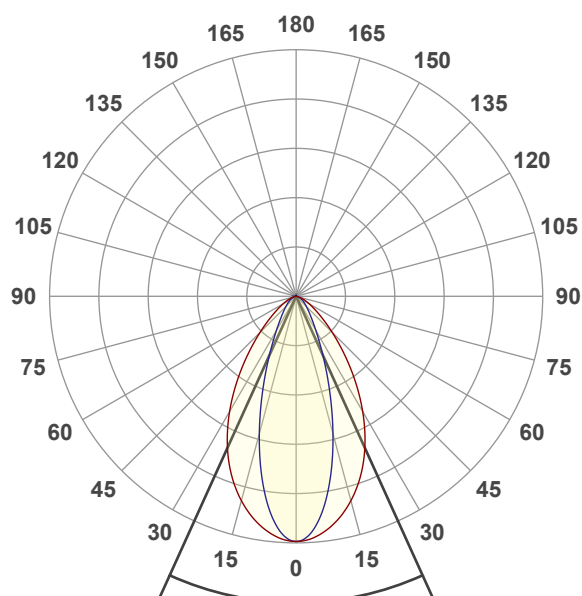
White

Operator:

Paolo Carvone

Date and time:

24/03/2022 13:00:08

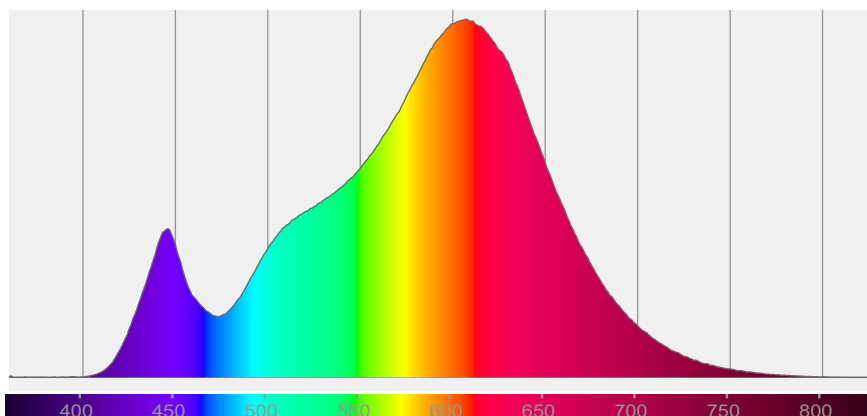


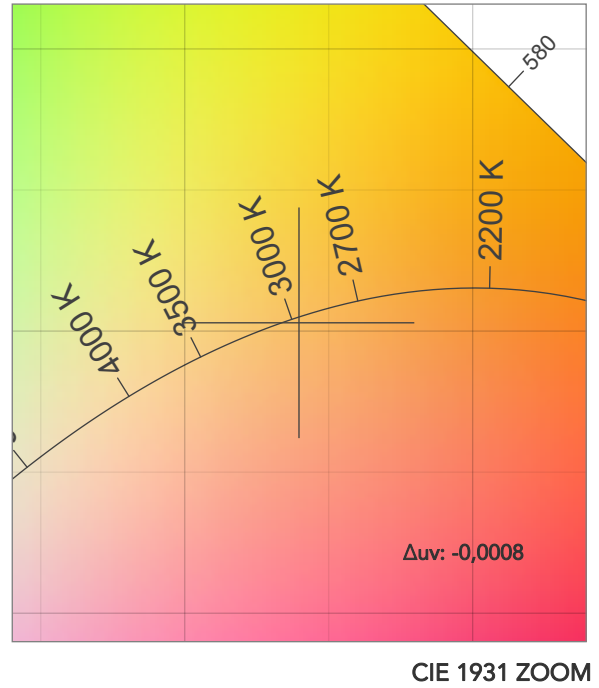
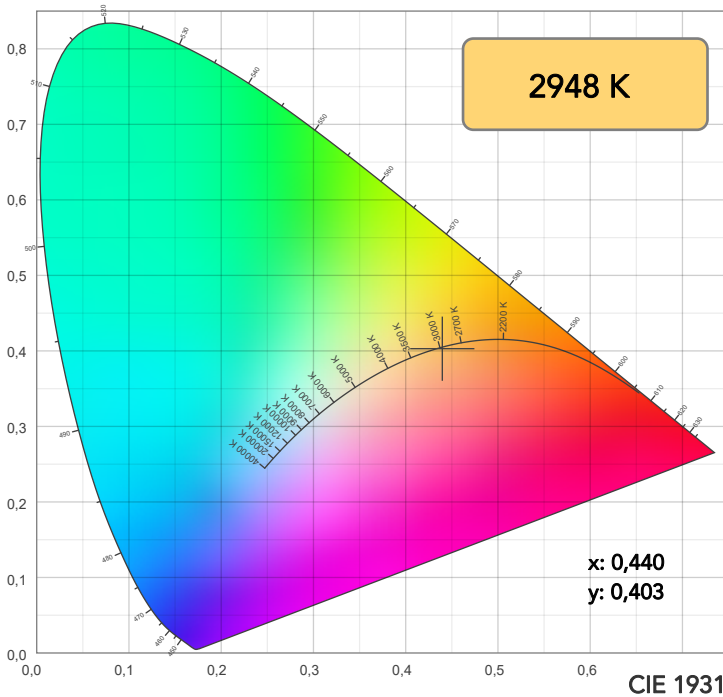
Beam angle 50%: 48,8°

Field angle 10%: 90,3°

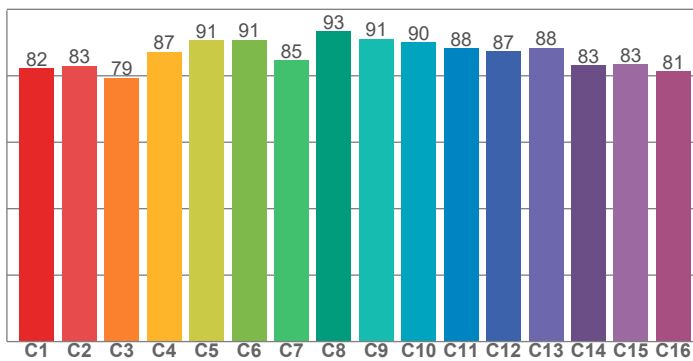
Cut off angle 2.5%: 130,4°

Spectra

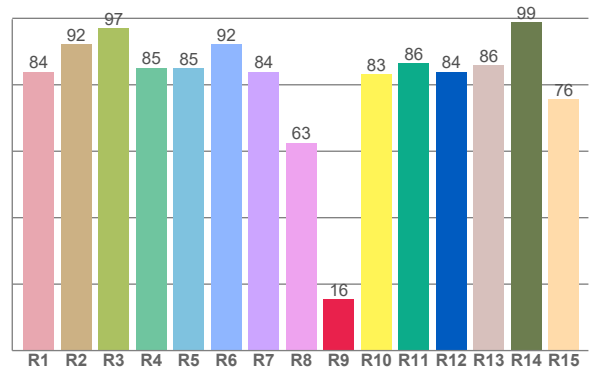




TM30: 86,5



CRI: 85,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,0	92,3	97,0	85,2	84,9	92,2	83,9	62,5	15,5	83,2	86,5	83,9	85,9	98,9	75,7

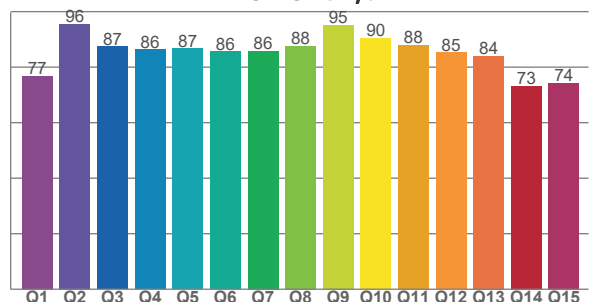
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,2	82,9	79,4	87,1	90,6	90,9	84,7	93,4	91,1	90,1	88,3	87,4	88,3	83,2	83,4	81,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,8	95,6	87,4	86,3	86,7	85,7	85,7	87,6	95,2	90,4	87,9	85,2	84,1	73,3	74,3

CQS: 84,0



COLOR PARAMETERS

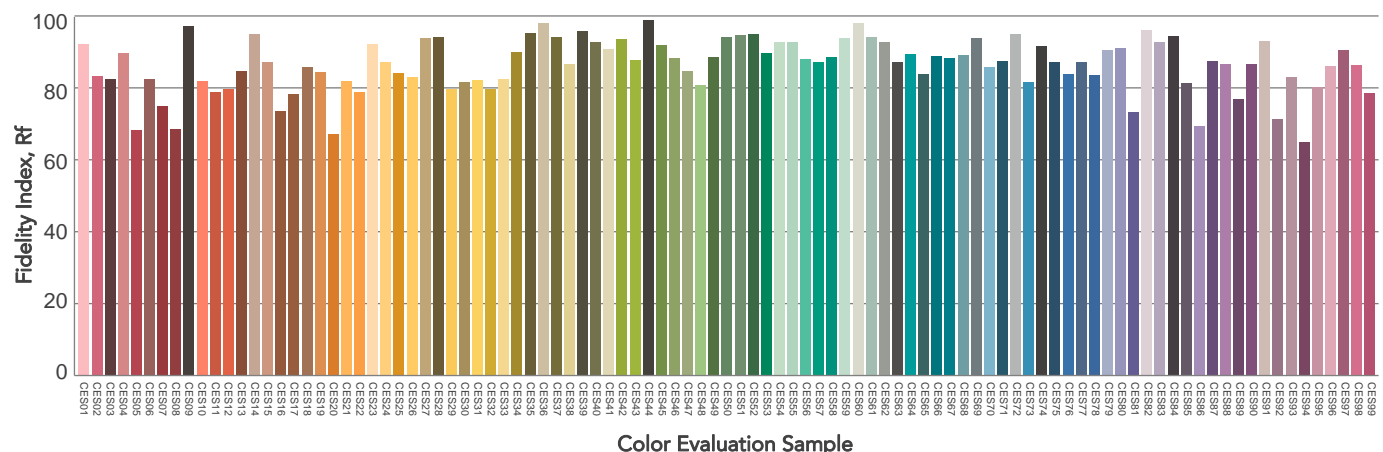
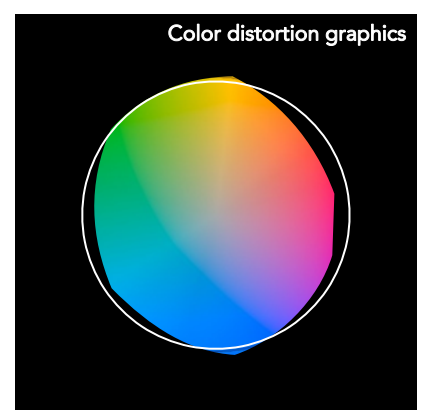
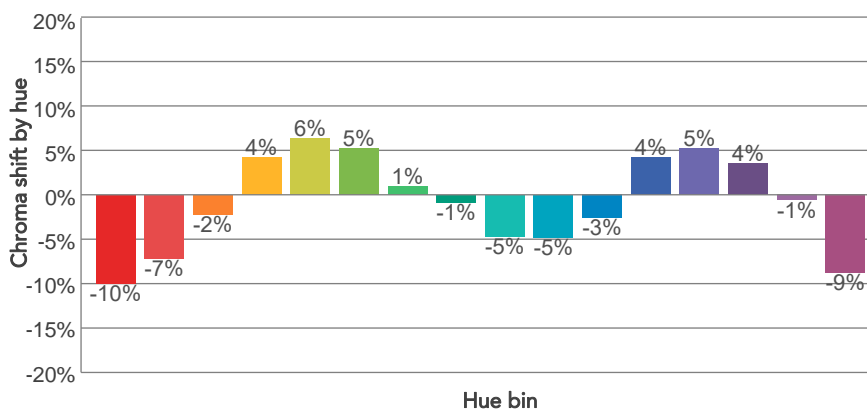
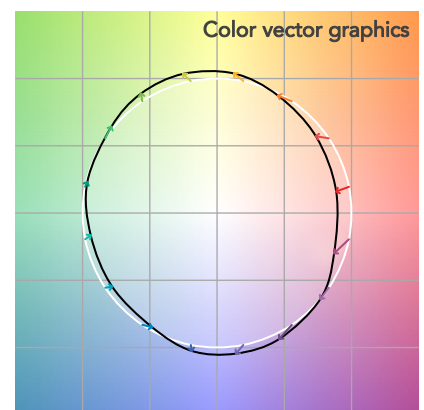
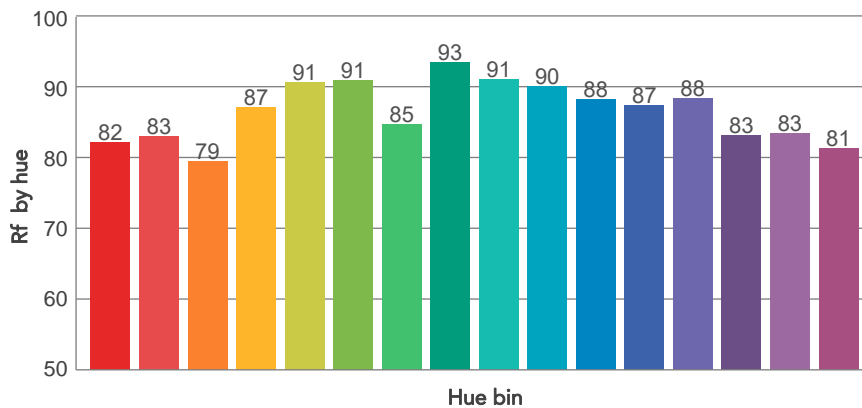
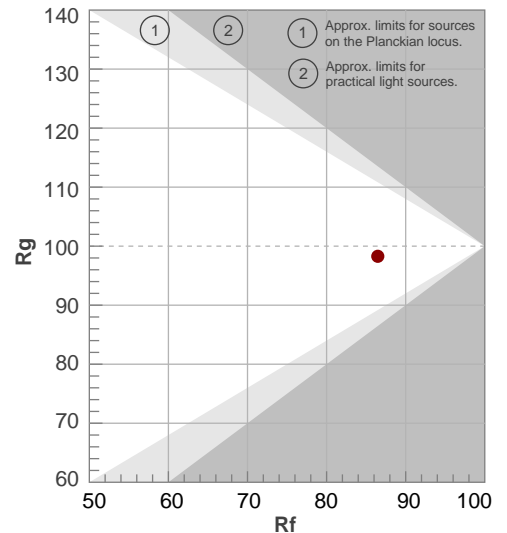
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2948 K	85,2	15,5	86,5	98,3	84,0	69	0,440	0,403	-0,0008

TM30 DETAILS

Rf 86,5
Fidelity index Rf

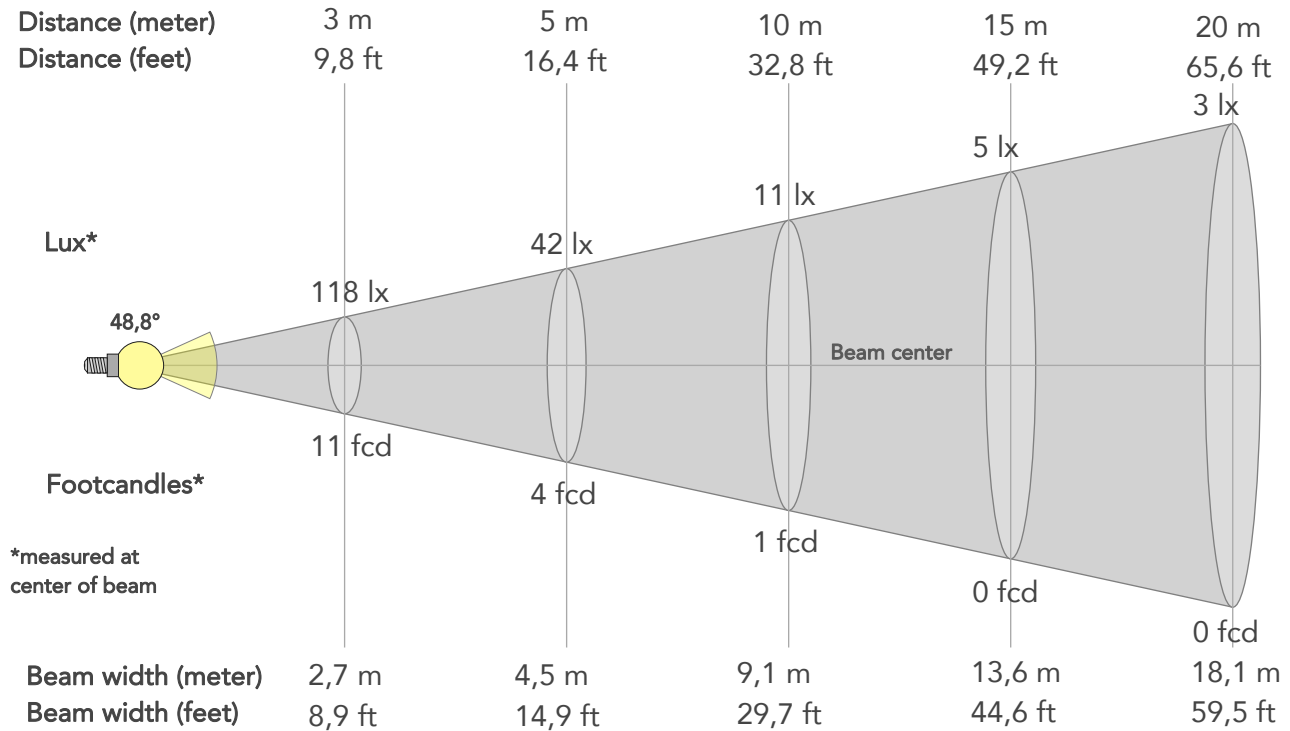
Rg 98,3
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	83	-7%	7%
3	79	-2%	11%
4	87	4%	8%
5	91	6%	5%
6	91	5%	-2%
7	85	1%	-10%
8	93	-1%	-4%
9	91	-5%	-2%
10	90	-5%	2%
11	88	-3%	7%
12	87	4%	1%
13	88	5%	-7%
14	83	4%	-14%
15	83	-1%	-10%
16	81	-9%	-12%



BEAM DETAILS

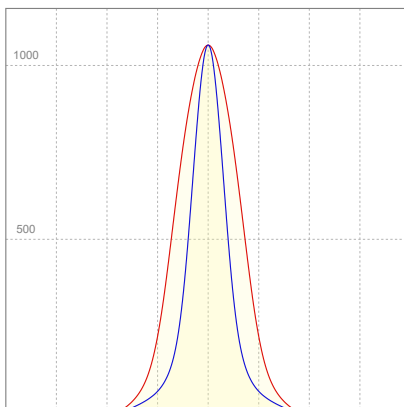
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,8°	90,3°	130,4°	95,4%	83,5%



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	1058lx	265lx	118lx	66lx	42lx	19lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	98fcd	25fcd	11fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,8m	9,1m	13,6m	18,1m	22,7m	27,2m	36,3m	45,3m
Beam wid.	3ft	6ft	8,9ft	11,9ft	14,9ft	22,3ft	29,7ft	44,6ft	59,5ft	74,3ft	89,2ft	118,9ft	148,6ft

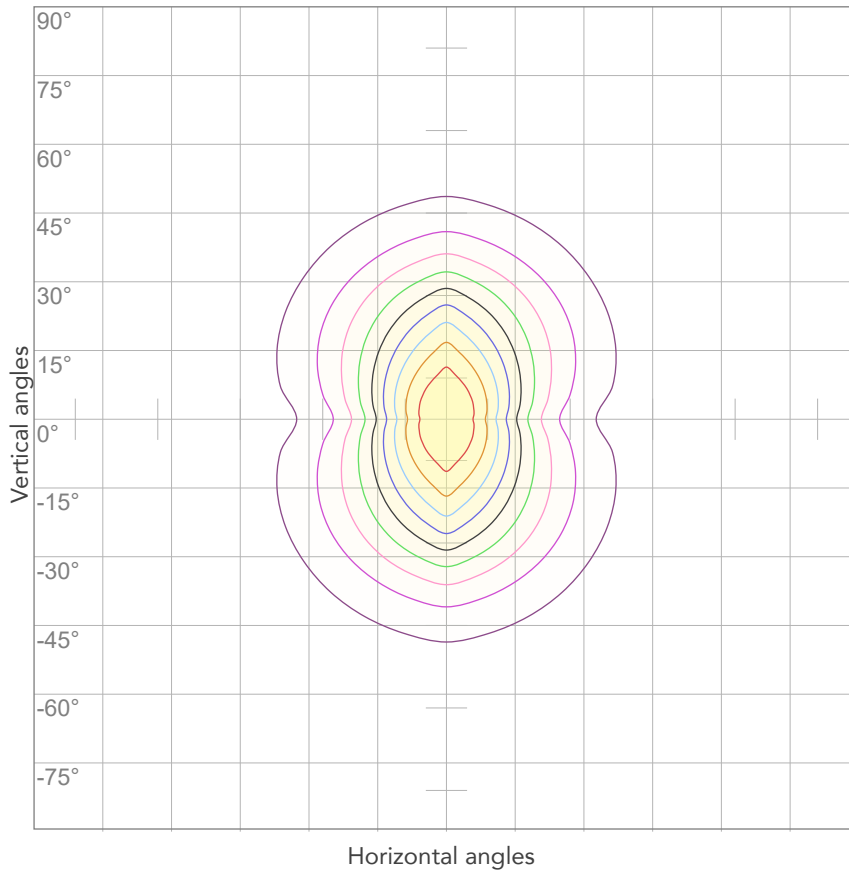
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,139A	23,4W	39lm/W

ISO CANDELA DIAGRAM



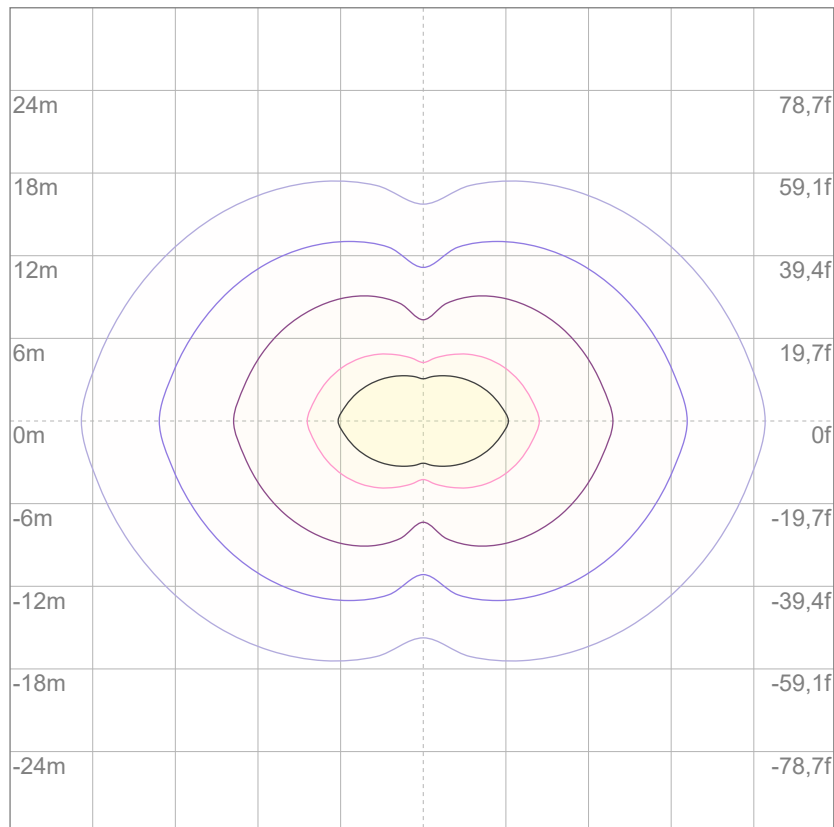
10%	106 cd
20%	212 cd
30%	317 cd
40%	423 cd
50%	529 cd
60%	635 cd
70%	741 cd
80%	847 cd

Conditions:

Number of c-planes: 4

Candela at center: 1058 cd

ISO LUX DIAGRAM



3%	0,317 lx
5%	0,529 lx
10%	1,06 lx
30%	3,17 lx
50%	5,29 lx

Conditions:

Number of c-planes: 4

Lux at center: 10,6 lx

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