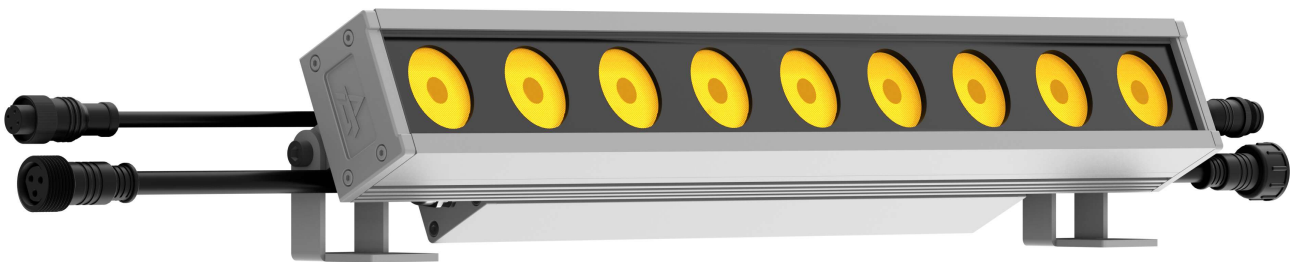


Photometric Test Report



ARCSHINEM9FC

9 x 4 W IP66 RGB + Warm White
architectural linear bar, 50 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:

1288 lm

Peak candela output:

23104 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°

Target:

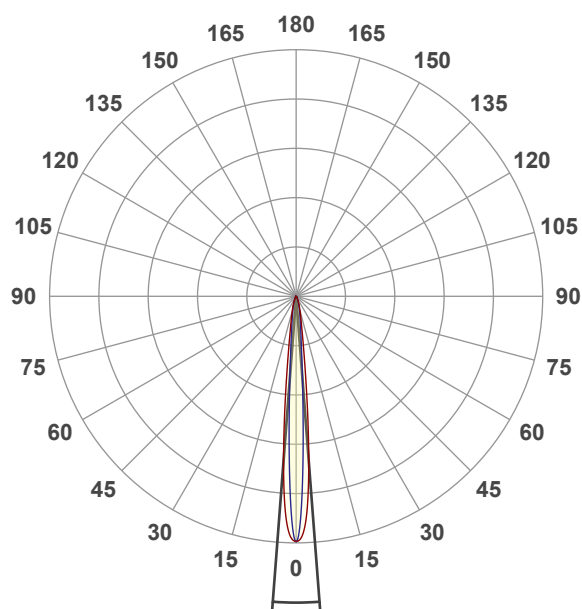
Full on

Operator:

Paolo Carvone

Date and time:

08/07/2022 12:05:12

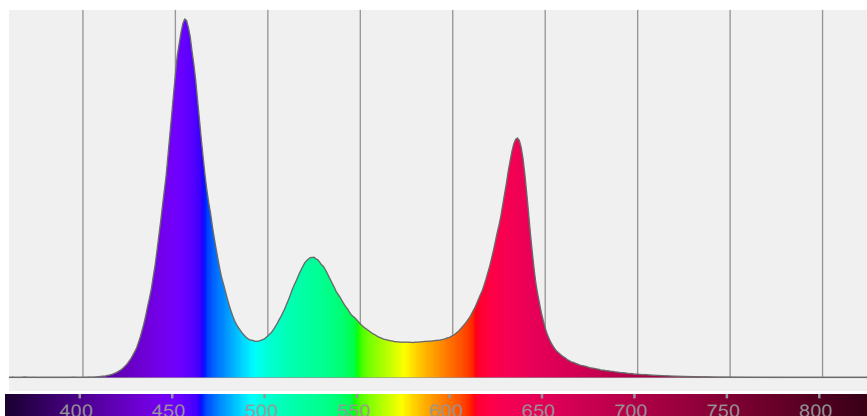


Beam angle 50%: 8,7°

Field angle 10%: 21,1°

Cut off angle 2.5%: 41,4°

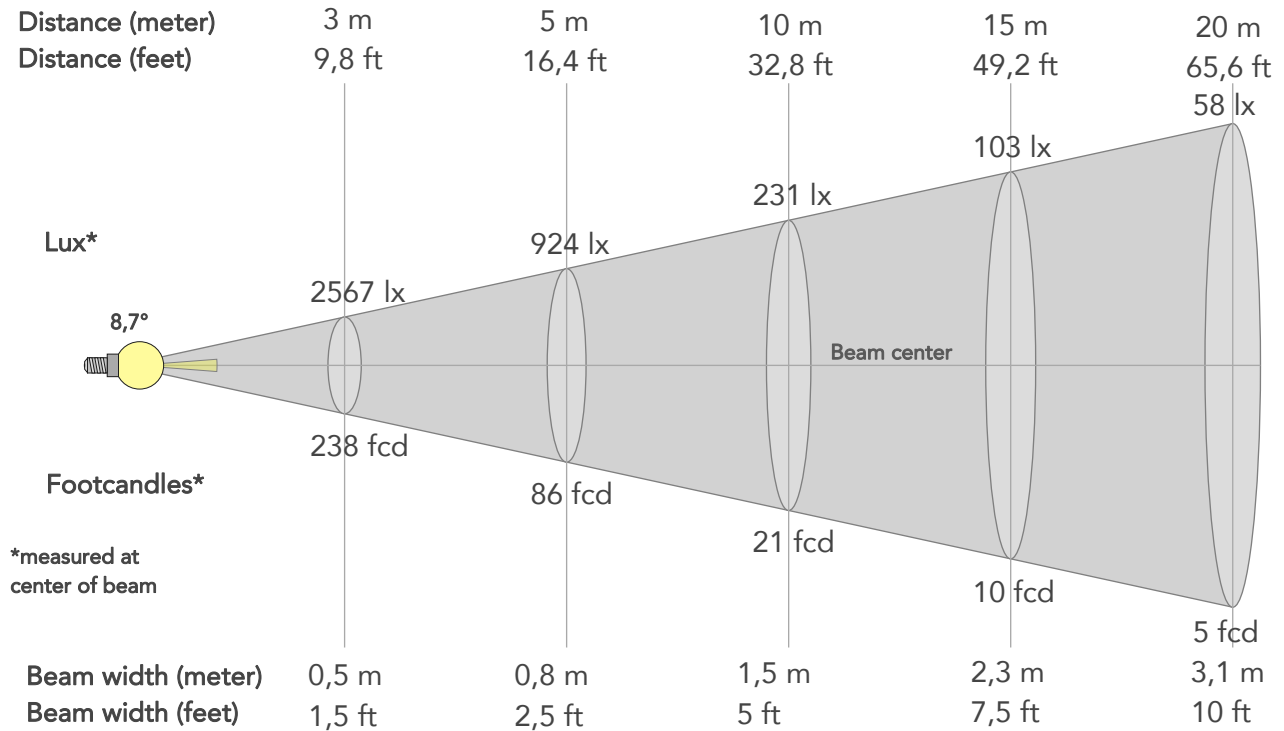
Spectra



BEAM DETAILS



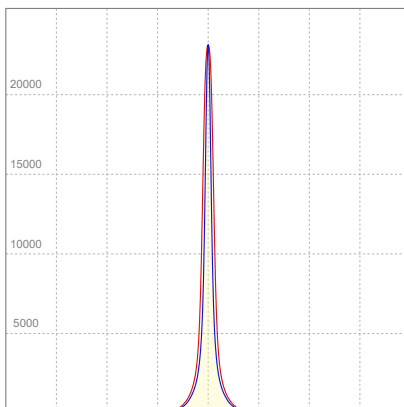
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
8,7°	21,1°	41,4°	100,0%	99,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	23101lx	5775lx	2567lx	1444lx	924lx	411lx	231lx	103lx	58lx	37lx	26lx	14lx	9lx
Footcand.	2146fcd	537fcd	238fcd	134fcd	86fcd	38fcd	21fcd	10fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,6m	0,8m	1,1m	1,5m	2,3m	3,1m	3,8m	4,6m	6,1m	7,6m
Beam wid.	0,5ft	1ft	1,5ft	2ft	2,5ft	3,8ft	5ft	7,5ft	10ft	12,5ft	15,1ft	20,1ft	25,1ft

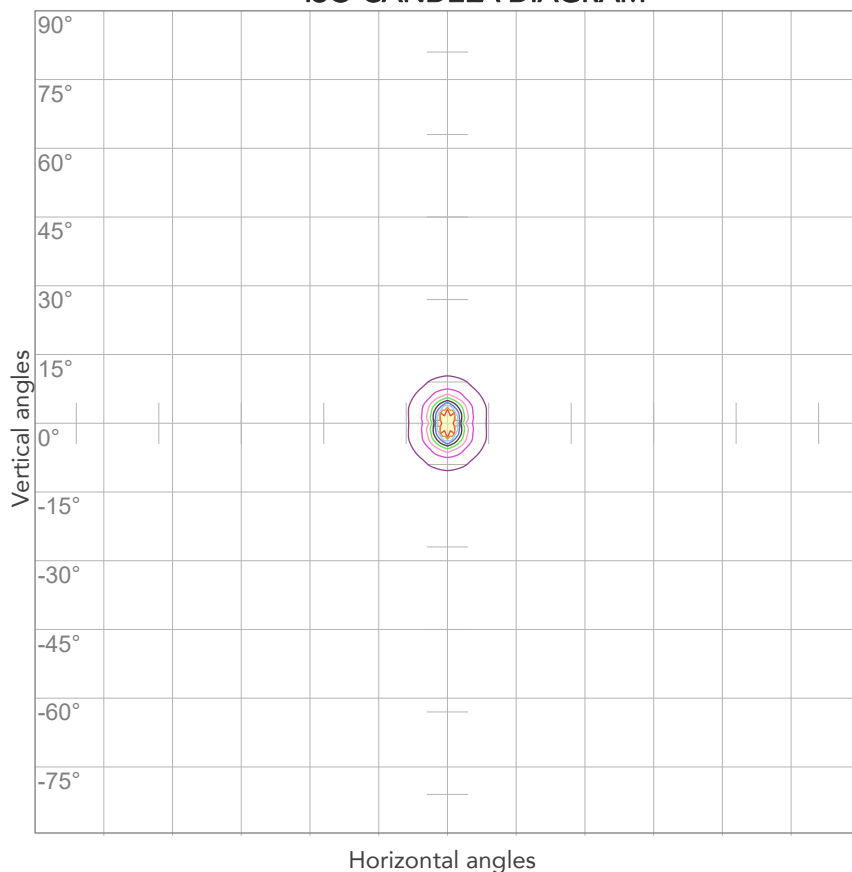
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
221V	0,191A	39,0W	33lm/W
Power FC			
0,92			

ISO CANDELA DIAGRAM



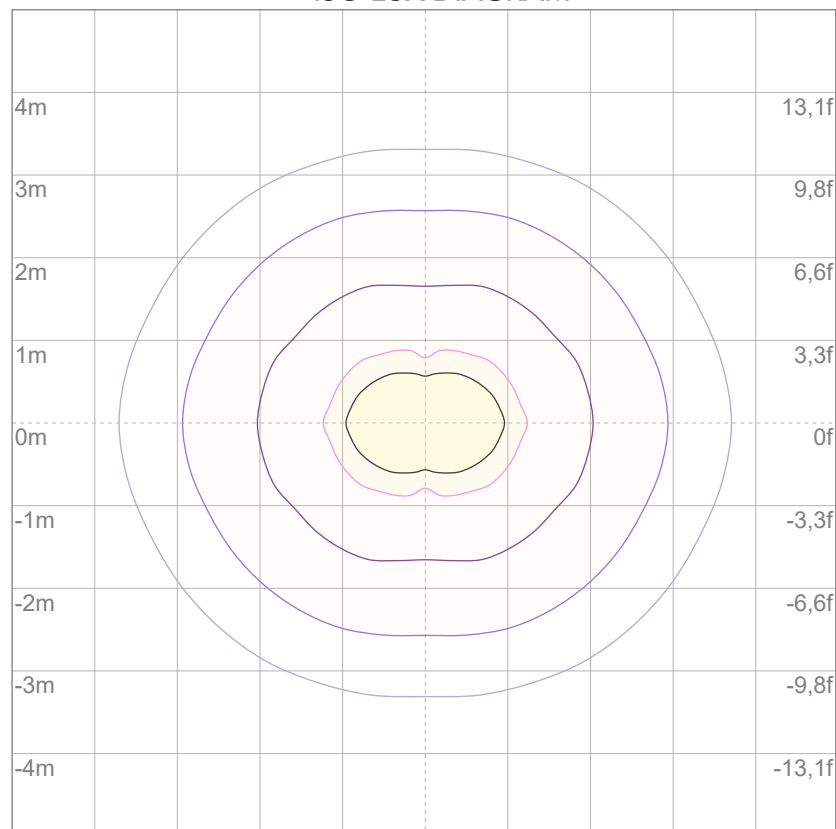
10%	2310 cd
20%	4620 cd
30%	6930 cd
40%	9240 cd
50%	11550 cd
60%	13860 cd
70%	16171 cd
80%	18481 cd

Conditions:

Number of c-planes: 4

Candela at center: 23101 cd

ISO LUX DIAGRAM



3%	6,93 lx
5%	11,6 lx
10%	23,1 lx
30%	69,3 lx
50%	116 lx

Conditions:

Number of c-planes: 4

Lux at center: 231 lx

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

Total lumen output:

1275 lm

Peak candela output:

3819 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 20°

Target:

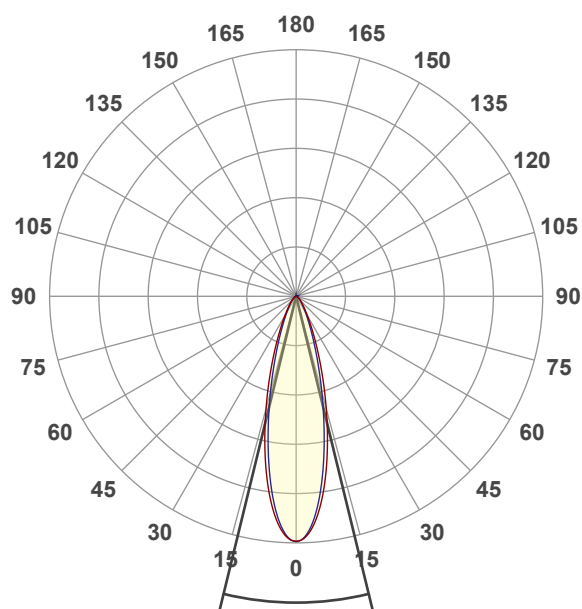
Full on

Operator:

Paolo Carvone

Date and time:

08/07/2022 12:52:31

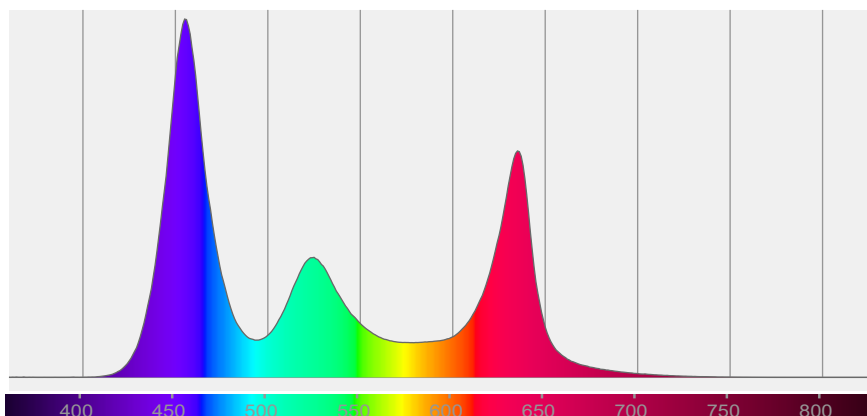


Beam angle 50%: 27,4°

Field angle 10%: 56,7°

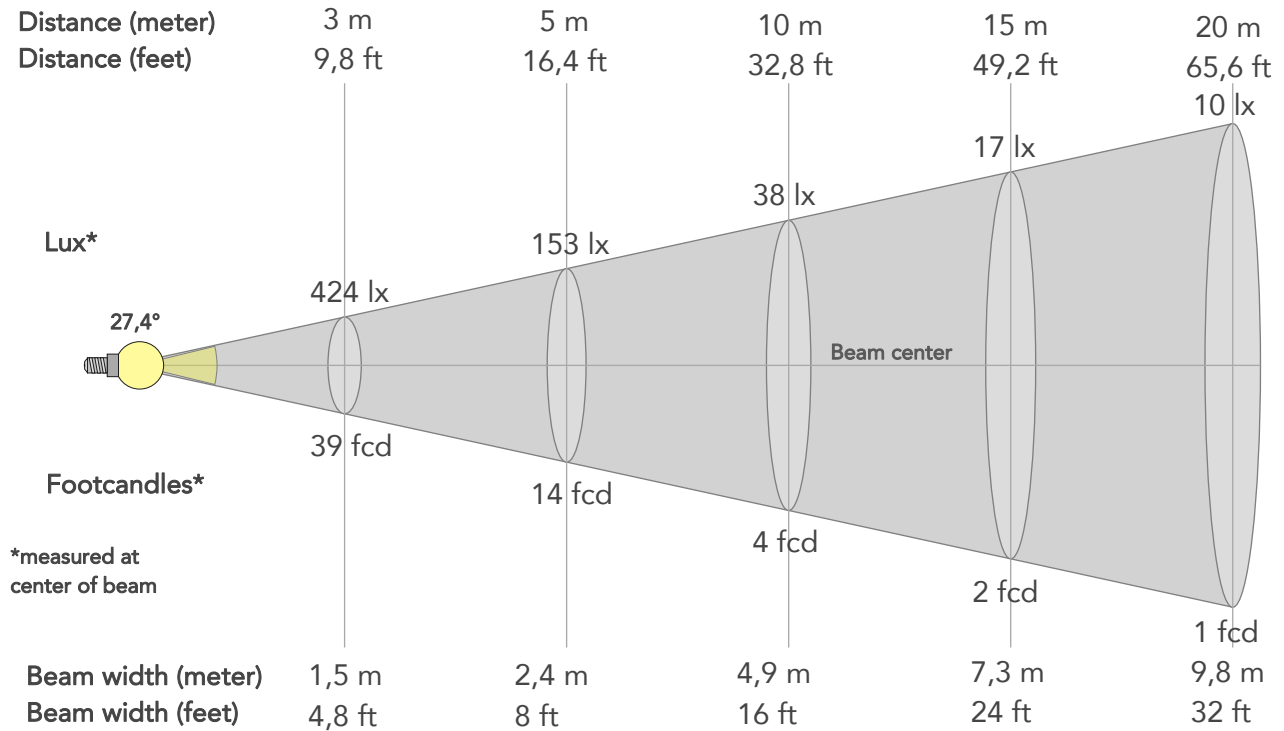
Cut off angle 2.5%: 88,3°

Spectra



BEAM DETAILS

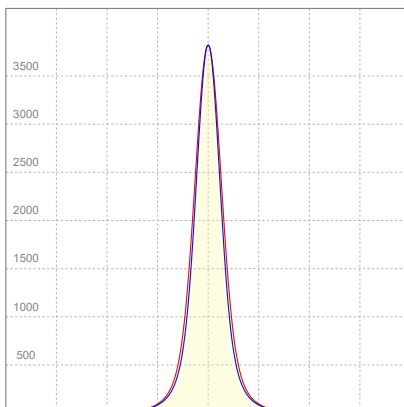
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,4°	56,7°	88,3°	99,0%	93,8%



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	3818lx	954lx	424lx	239lx	153lx	68lx	38lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	355fcd	89fcd	39fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,4m	3,7m	4,9m	7,3m	9,8m	12,2m	14,6m	19,5m	24,4m
Beam wid.	1,6ft	3,2ft	4,8ft	6,4ft	8ft	12ft	16ft	24ft	32ft	40ft	48ft	64ft	80ft

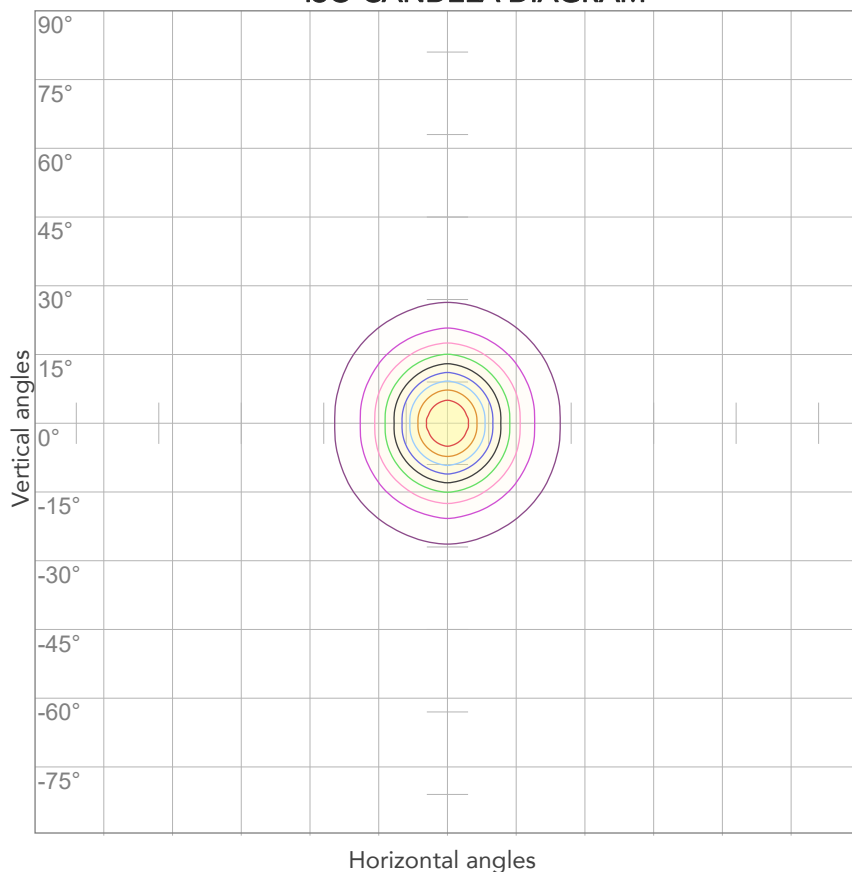
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,188A	38,8W	33lm/W
Power FC			
0,92			

ISO CANDELA DIAGRAM



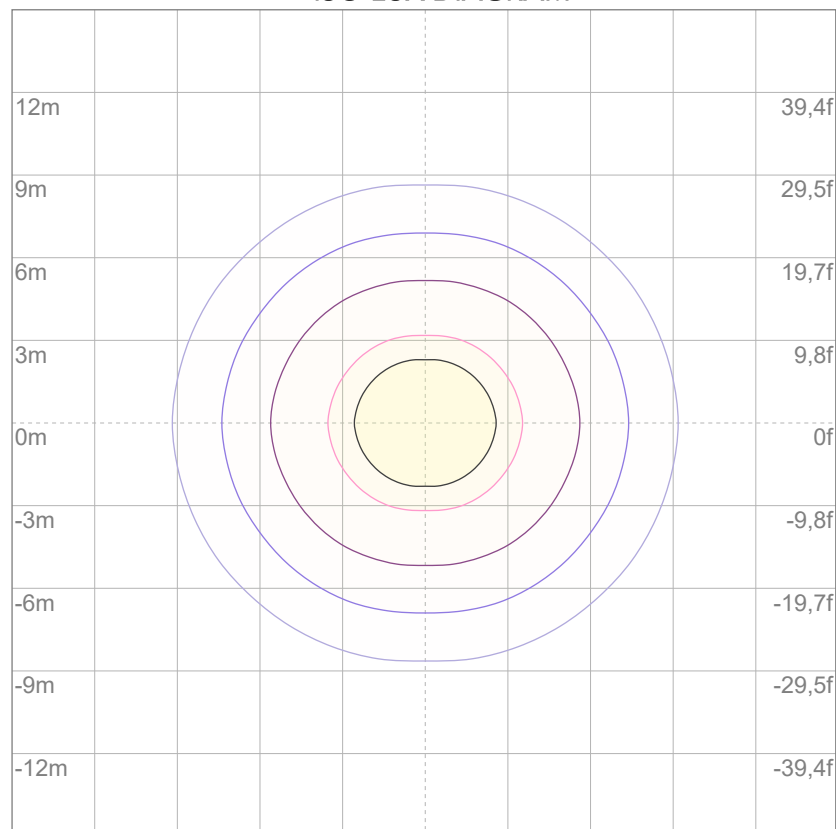
10%	382 cd
20%	764 cd
30%	1145 cd
40%	1527 cd
50%	1909 cd
60%	2291 cd
70%	2672 cd
80%	3054 cd

Conditions:

Number of c-planes: 4

Candela at center: 3818 cd

ISO LUX DIAGRAM



3%	1,15 lx
5%	1,91 lx
10%	3,82 lx
30%	11,5 lx
50%	19,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 38,2 lx

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

Total lumen output:

1259 lm

Peak candela output:

1491 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 40°

Target:

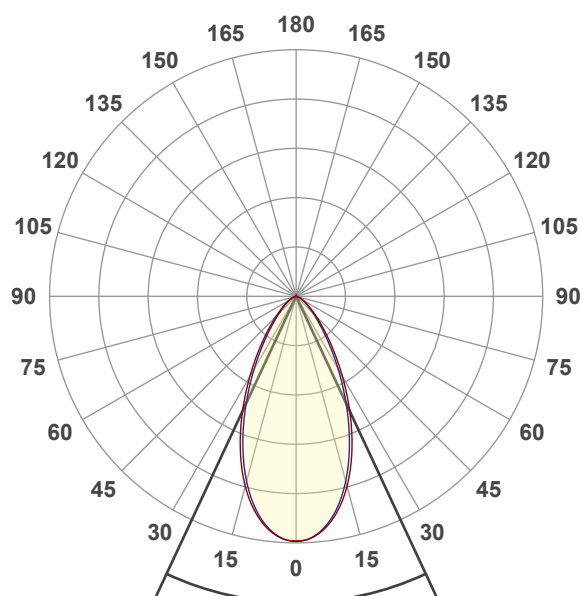
Full on

Operator:

Paolo Carvone

Date and time:

08/07/2022 13:14:55

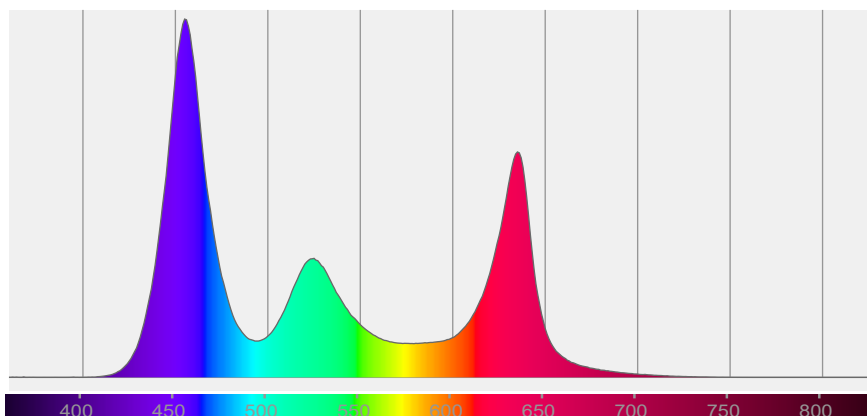


Beam angle 50%: 50,1°

Field angle 10%: 91,6°

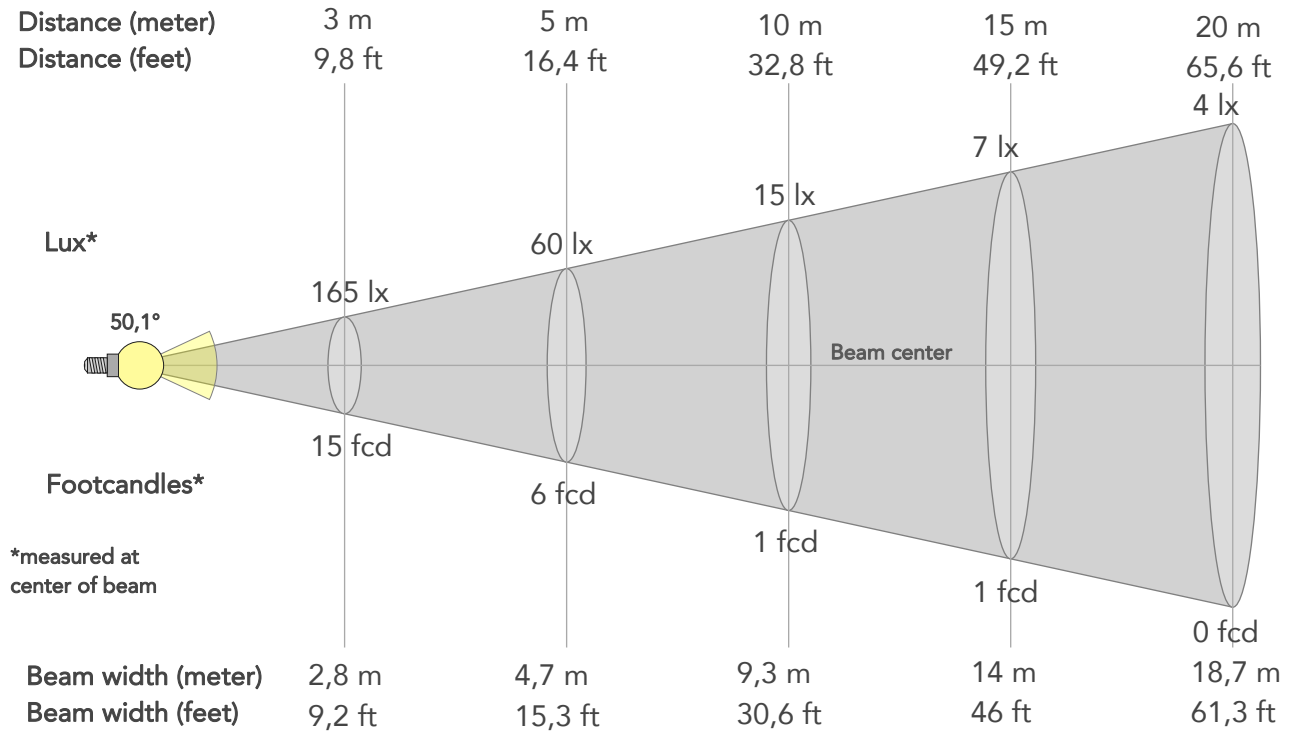
Cut off angle 2.5%: 125,5°

Spectra



BEAM DETAILS

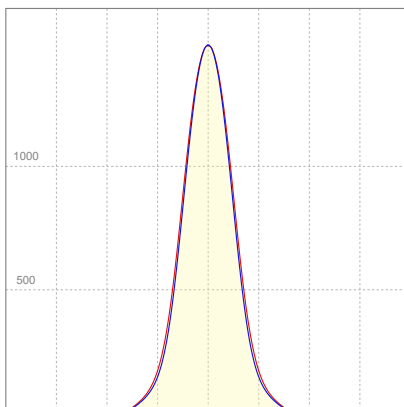
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50,1°	91,6°	125,5°	97,3%	87,8%



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	1489lx	372lx	165lx	93lx	60lx	26lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	138fcd	35fcd	15fcd	9fcd	6fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,7m	4,7m	7m	9,3m	14m	18,7m	23,4m	28m	37,4m	46,7m
Beam wid.	3,1ft	6,2ft	9,2ft	12,2ft	15,3ft	23ft	30,6ft	46ft	61,3ft	76,6ft	91,9ft	122,5ft	153,2ft

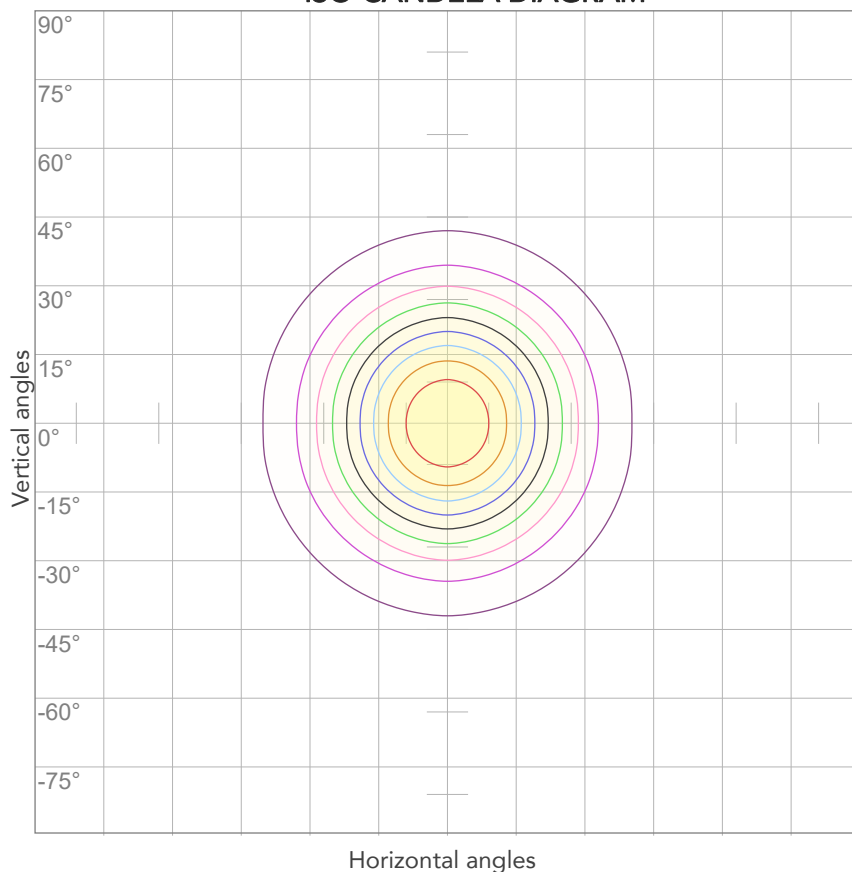
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,187A	38,8W	32lm/W
Power FC			
0,92			

ISO CANDELA DIAGRAM



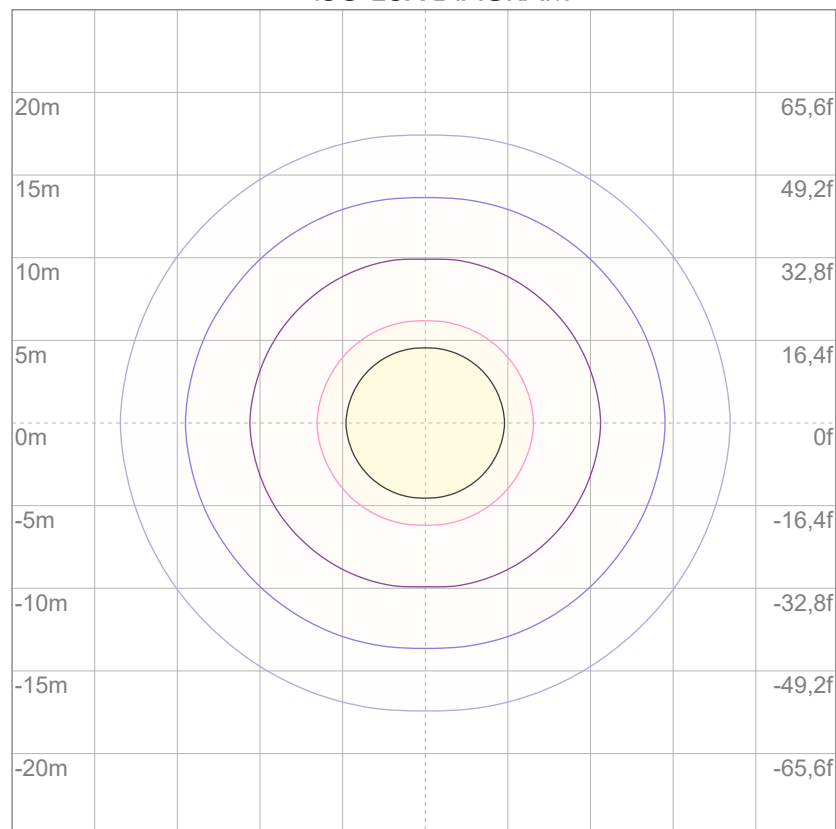
10%	149 cd
20%	298 cd
30%	447 cd
40%	596 cd
50%	745 cd
60%	894 cd
70%	1043 cd
80%	1192 cd

Conditions:

Number of c-planes: 4

Candela at center: 1489 cd

ISO LUX DIAGRAM



3%	0,447 lx
5%	0,745 lx
10%	1,49 lx
30%	4,47 lx
50%	7,45 lx

Conditions:

Number of c-planes: 4

Lux at center: 14,9 lx

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

Total lumen output:

1295 lm

Peak candela output:

1128 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 60°

Target:

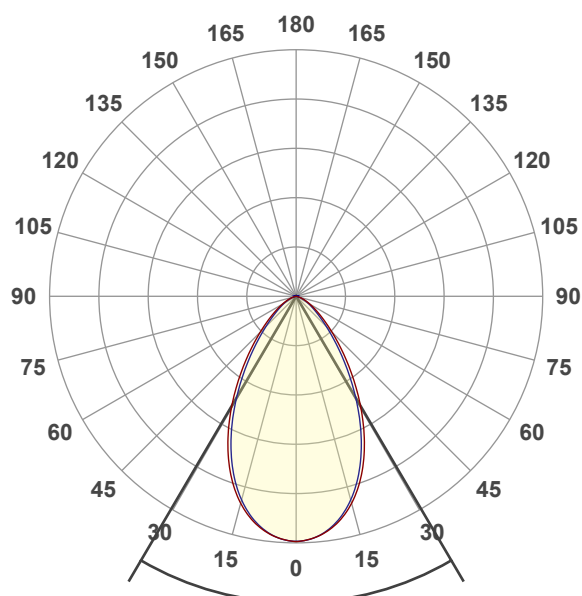
Full on

Operator:

Paolo Carvone

Date and time:

08/07/2022 13:35:13

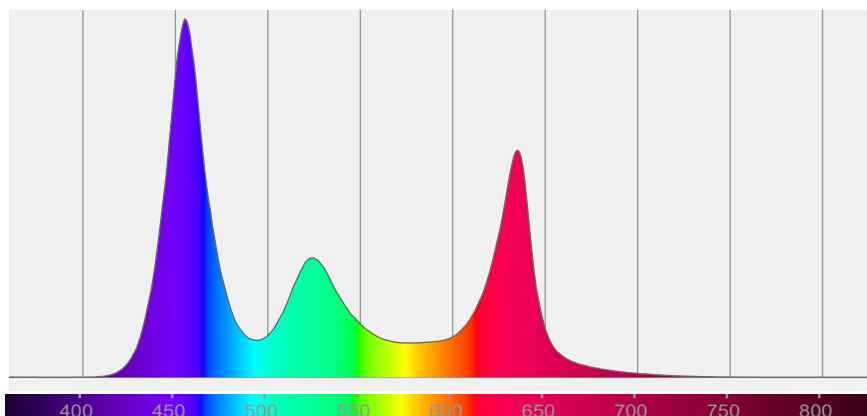


Beam angle 50%: 60,9°

Field angle 10%: 107,1°

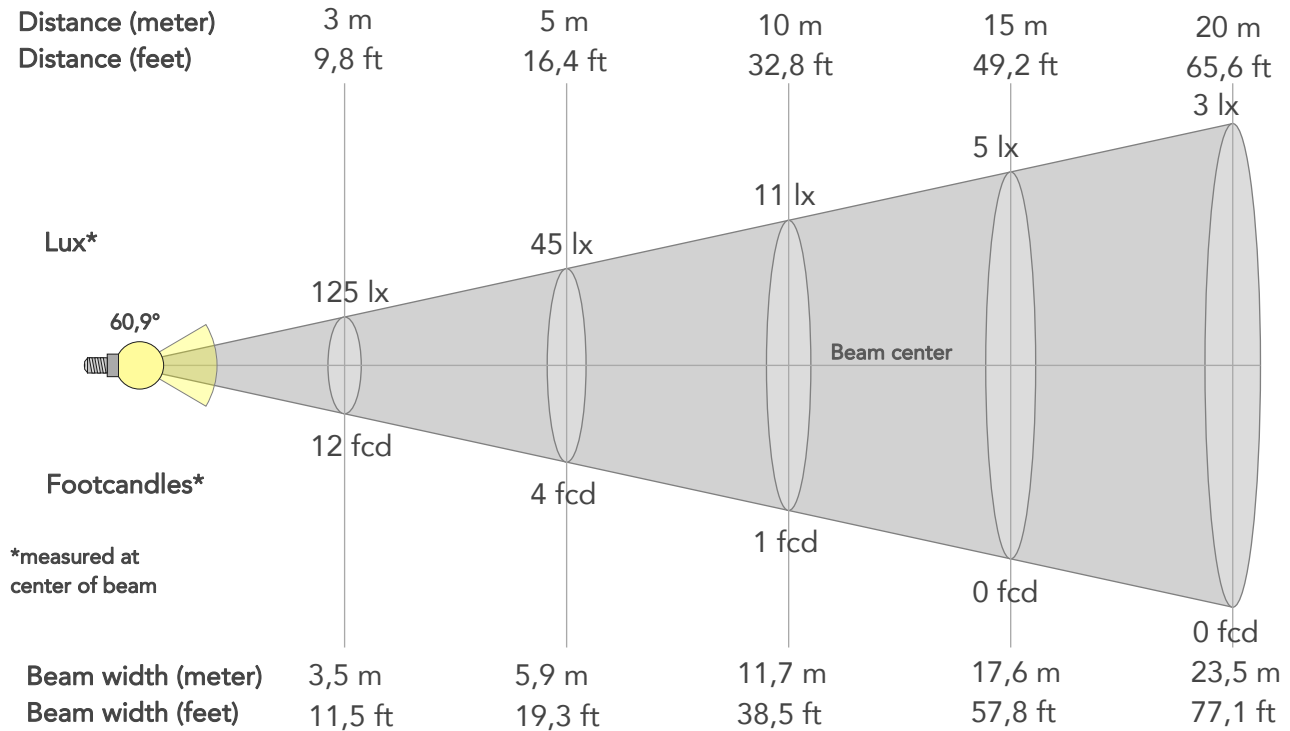
Cut off angle 2.5%: 138°

Spectra



BEAM DETAILS

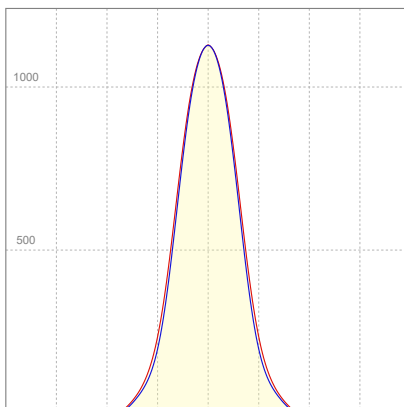
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60,9°	107,1°	138°	95,7%	83,0%



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	1127lx	282lx	125lx	70lx	45lx	20lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	105fcd	26fcd	12fcd	7fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,7m	5,9m	8,8m	11,7m	17,6m	23,5m	29,4m	35,2m	47m	58,7m
Beam wid.	3,9ft	7,8ft	11,5ft	15,4ft	19,3ft	28,9ft	38,5ft	57,8ft	77,1ft	96,3ft	115,6ft	154,1ft	192,7ft

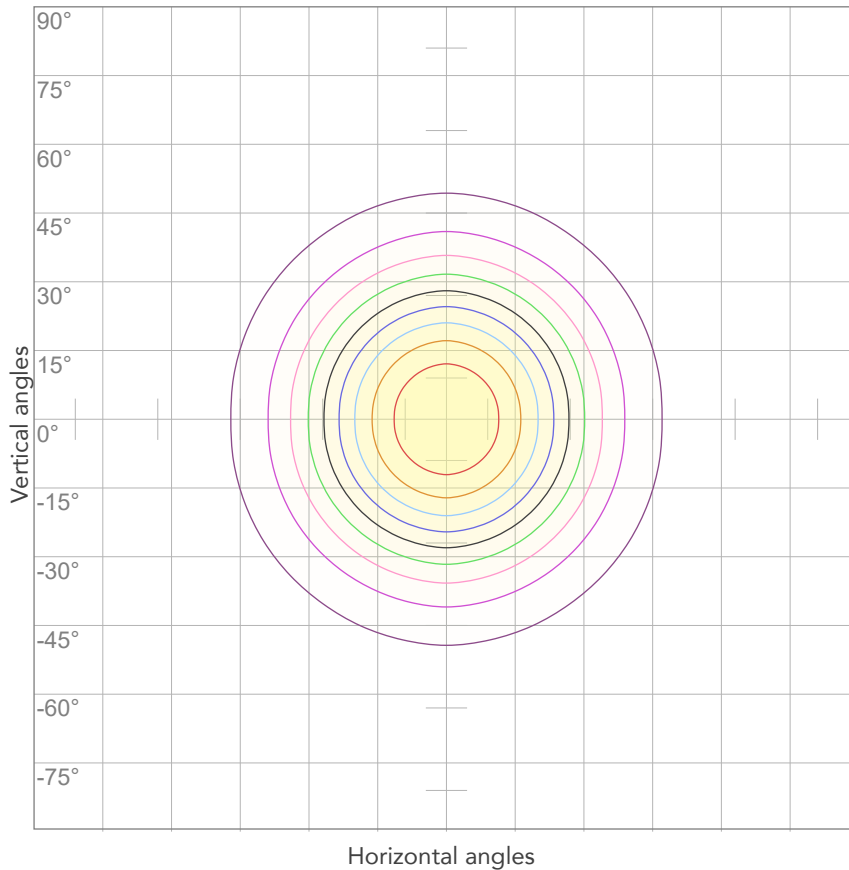
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,188A	38,9W	33lm/W
Power FC			
0,92			

ISO CANDELA DIAGRAM



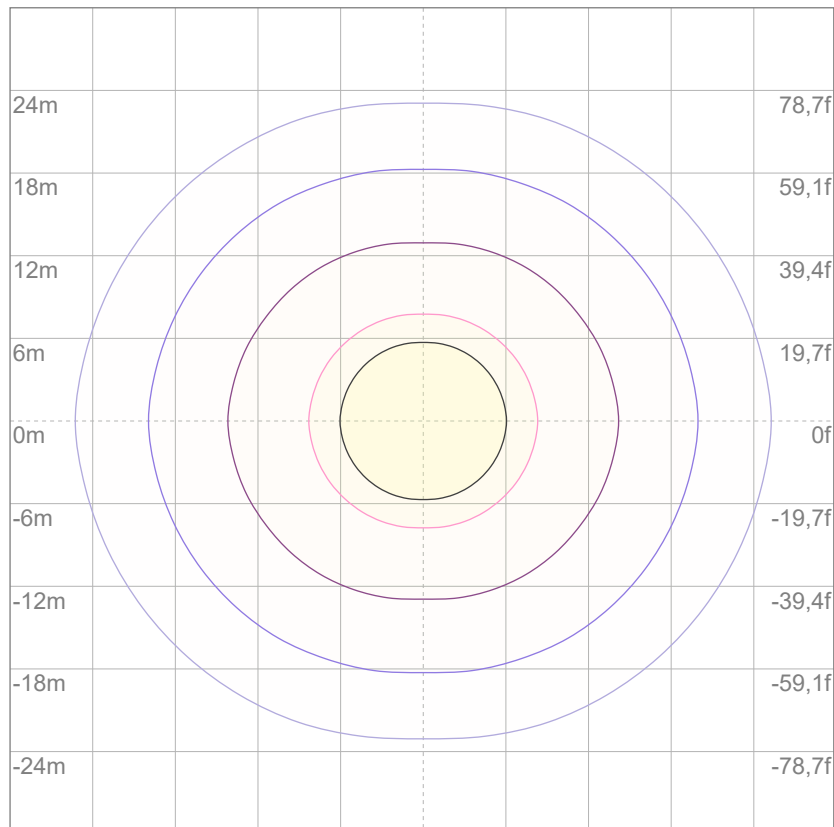
10%	113 cd
20%	225 cd
30%	338 cd
40%	451 cd
50%	564 cd
60%	676 cd
70%	789 cd
80%	902 cd

Conditions:

Number of c-planes: 4

Candela at center: 1127 cd

ISO LUX DIAGRAM



3%	0,338 lx
5%	0,564 lx
10%	1,13 lx
30%	3,38 lx
50%	5,64 lx

Conditions:

Number of c-planes: 4

Lux at center: 11,3 lx

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

Total lumen output:

1772 lm

Peak candela output:

2713 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 10°x60°

Target:

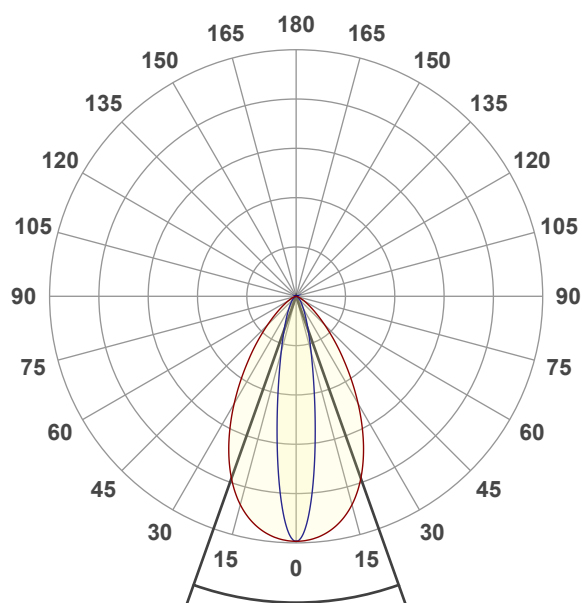
Full on

Operator:

Paolo Carvone

Date and time:

08/07/2022 14:30:45

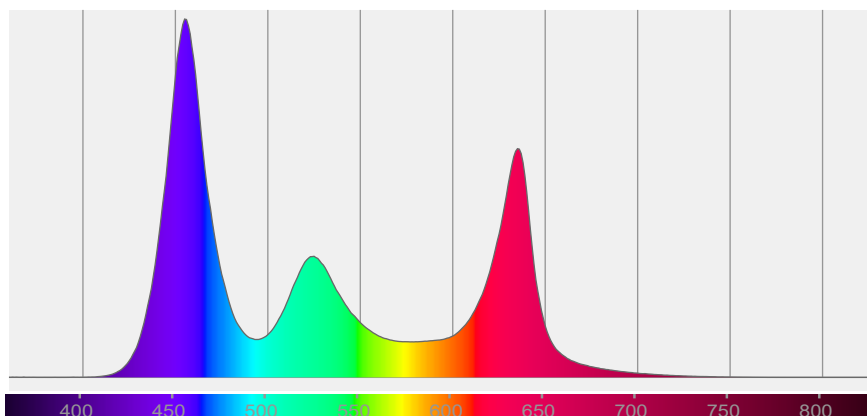


Beam angle 50%: 39,1°

Field angle 10%: 74,1°

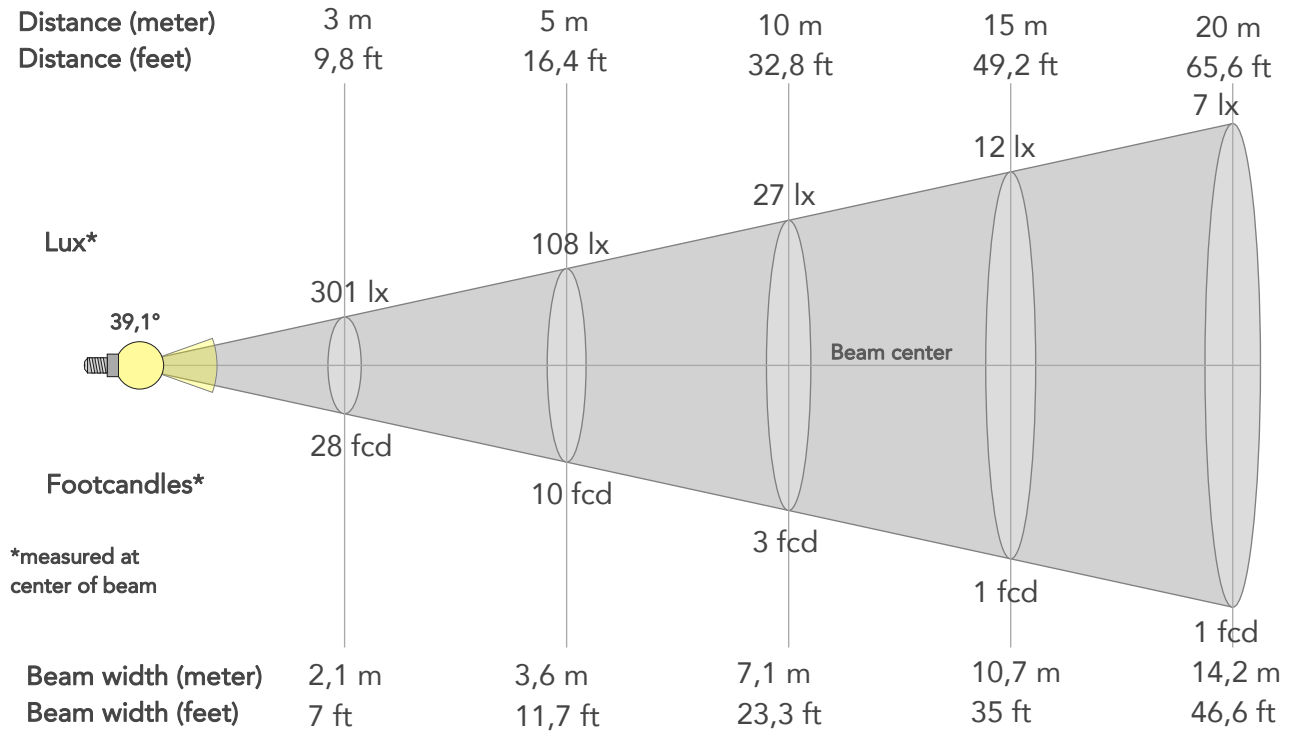
Cut off angle 2.5%: 106,6°

Spectra



BEAM DETAILS

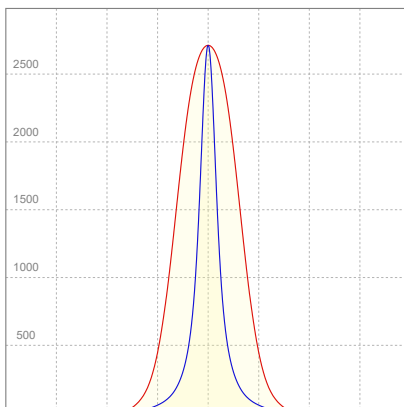
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,1°	74,1°	106,6°	97,7%	88,0%



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	2710lx	677lx	301lx	169lx	108lx	48lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	252fcd	63fcd	28fcd	16fcd	10fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,6m	5,3m	7,1m	10,7m	14,2m	17,8m	21,3m	28,4m	35,5m
Beam wid.	2,3ft	4,7ft	7ft	9,3ft	11,7ft	17,5ft	23,3ft	35ft	46,6ft	58,3ft	69,9ft	93,2ft	116,6ft

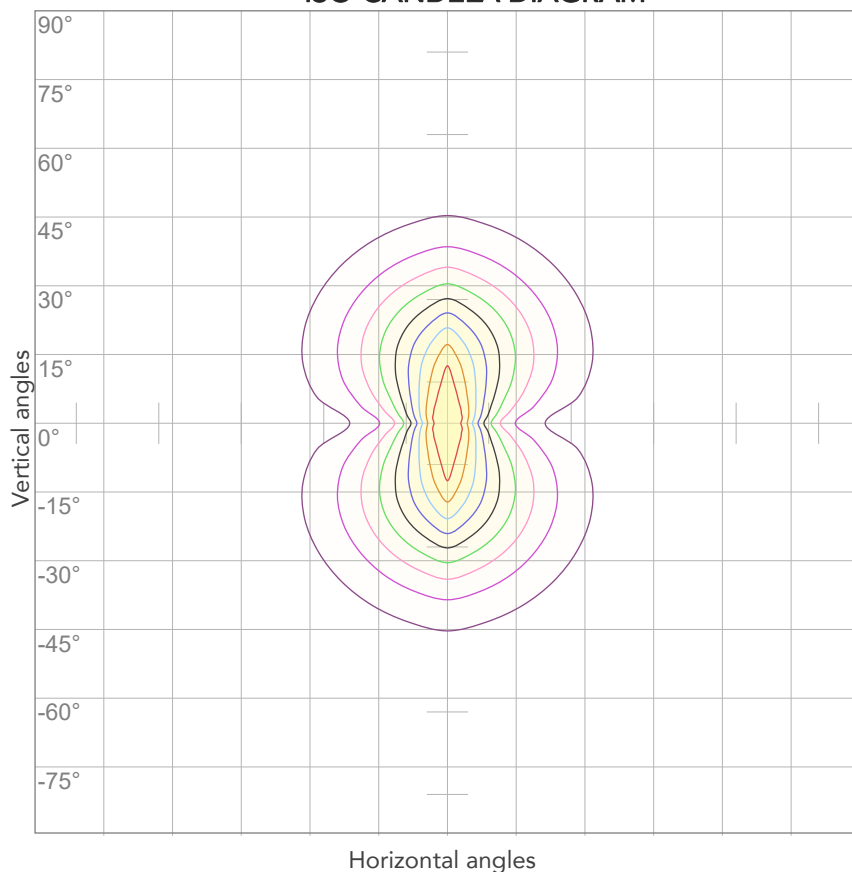
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,188A	38,7W	46lm/W
Power FC			
0,92			

ISO CANDELA DIAGRAM



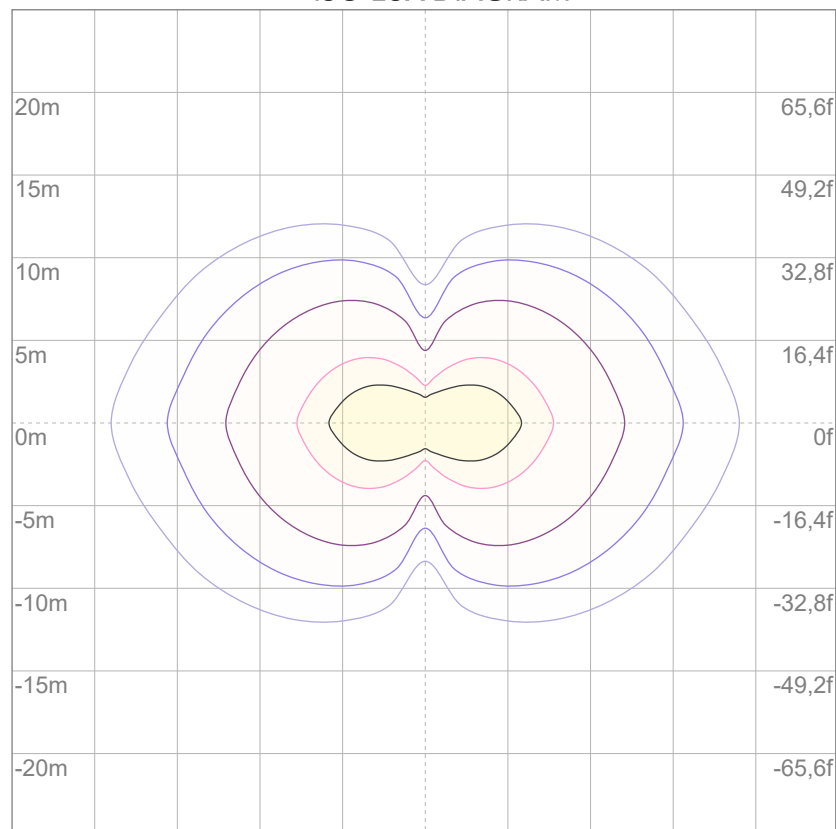
10%	271 cd
20%	542 cd
30%	813 cd
40%	1084 cd
50%	1355 cd
60%	1626 cd
70%	1897 cd
80%	2168 cd

Conditions:

Number of c-planes: 4

Candela at center: 2710 cd

ISO LUX DIAGRAM



3%	0,813 lx
5%	1,35 lx
10%	2,71 lx
30%	8,13 lx
50%	13,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 27,1 lx

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

Total lumen output:

1394 lm

Peak candela output:

1499 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 30°x60°

Target:

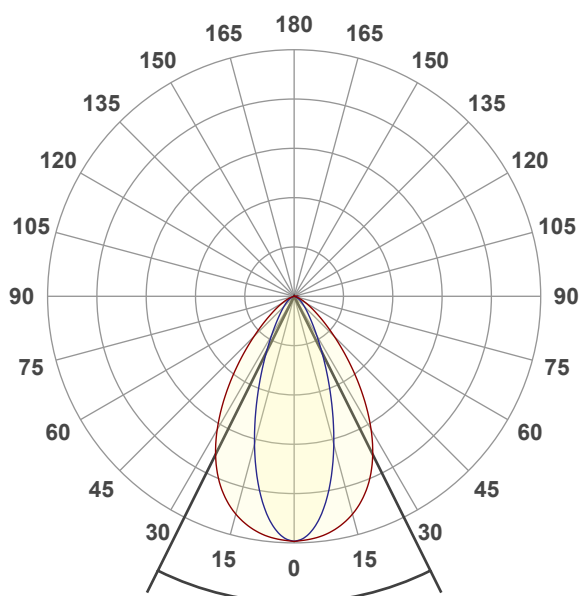
Full on

Operator:

Paolo Carvone

Date and time:

08/07/2022 15:08:25

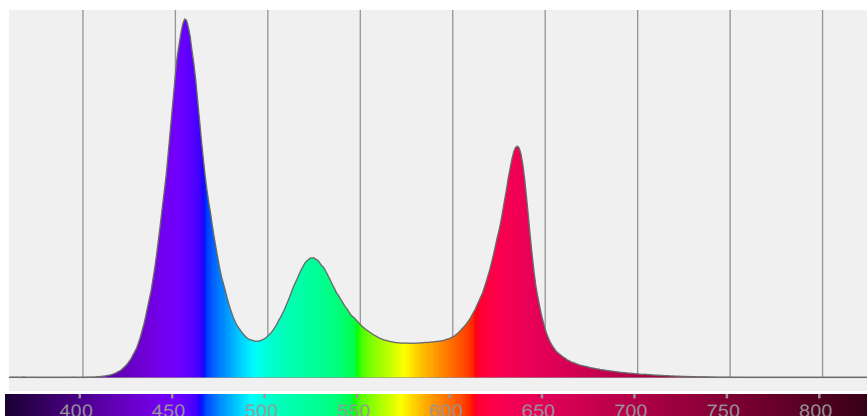


Beam angle 50%: 52,8°

Field angle 10%: 91,7°

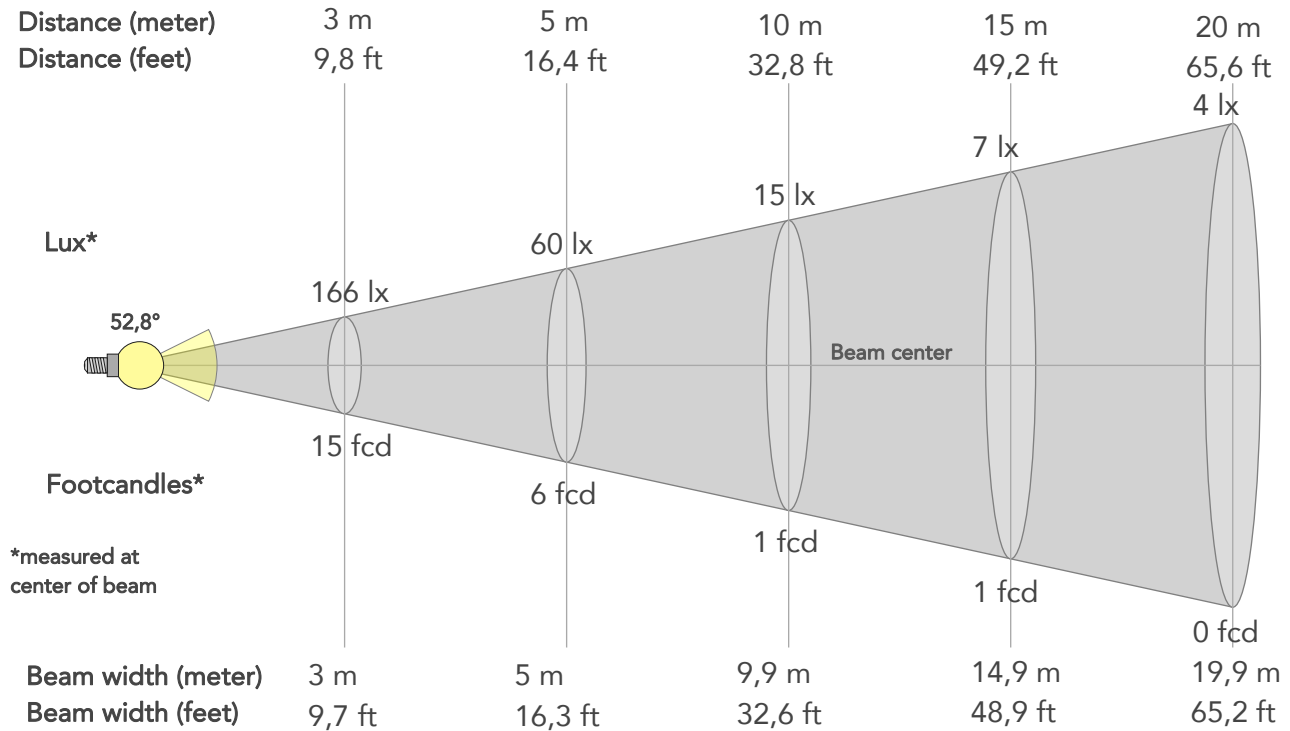
Cut off angle 2.5%: 125,1°

Spectra



BEAM DETAILS

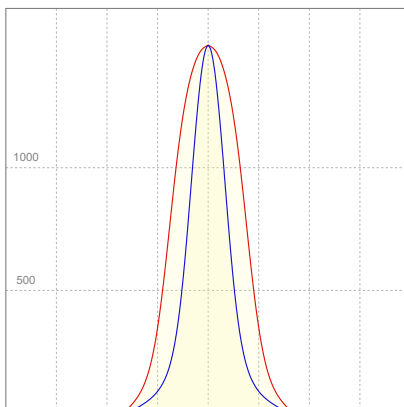
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,8°	91,7°	125,1°	97,1%	85,8%



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	1497lx	374lx	166lx	94lx	60lx	27lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	139fcd	35fcd	15fcd	9fcd	6fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,5m	9,9m	14,9m	19,9m	24,8m	29,8m	39,7m	49,7m
Beam wid.	3,3ft	6,6ft	9,7ft	13ft	16,3ft	24,4ft	32,6ft	48,9ft	65,2ft	81,5ft	97,7ft	130,3ft	162,9ft

LINEAR DISTRIBUTION DIAGRAM

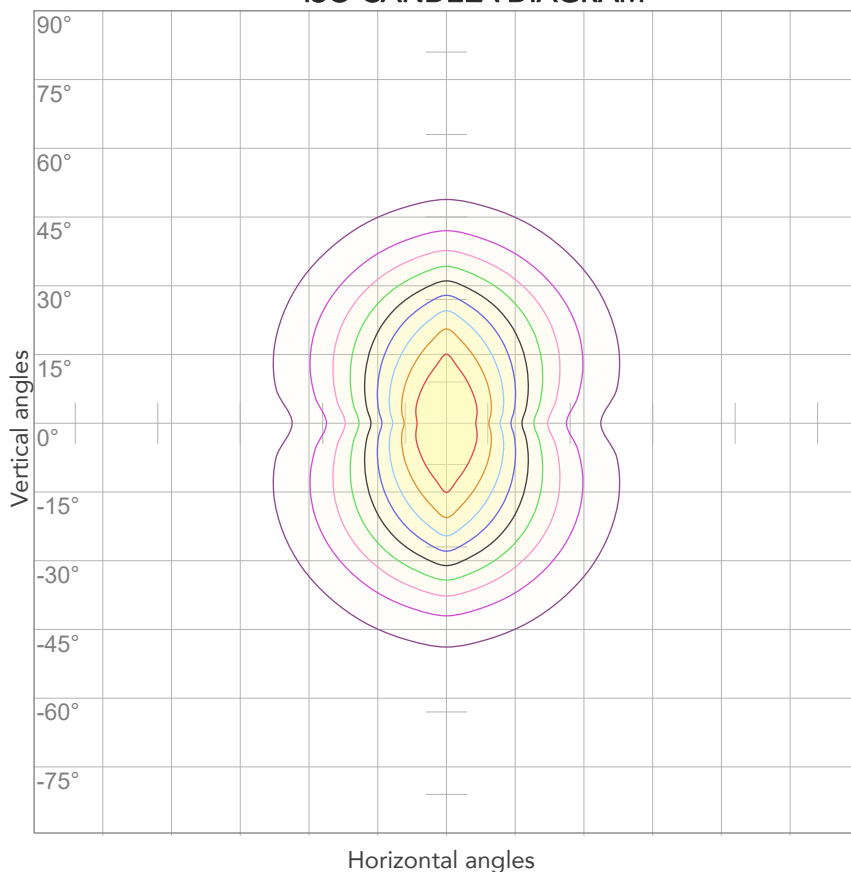


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,189A	39,0W	36lm/W

Power FC
0,92

ISO CANDELA DIAGRAM



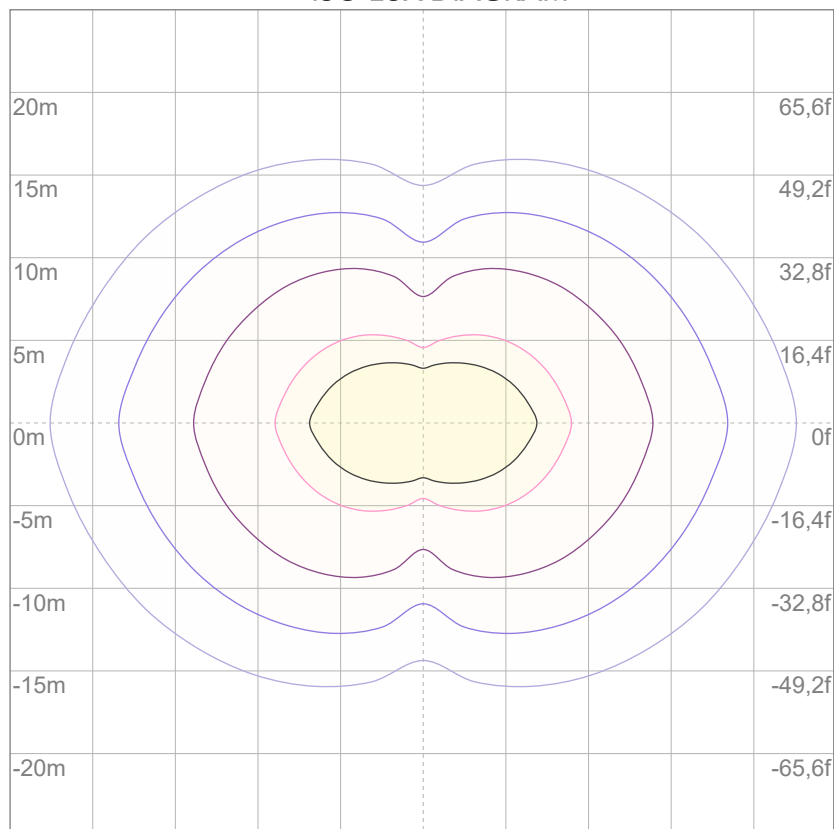
10%	150 cd
20%	299 cd
30%	449 cd
40%	599 cd
50%	749 cd
60%	898 cd
70%	1048 cd
80%	1198 cd

Conditions:

Number of c-planes: 4

Candela at center: 1497 cd

ISO LUX DIAGRAM



3%	0,449 lx
5%	0,749 lx
10%	1,50 lx
30%	4,49 lx
50%	7,49 lx

Conditions:

Number of c-planes: 4

Lux at center: 15,0 lx

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

Total lumen output:

265 lm

Peak candela output:

4729 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°

Target:

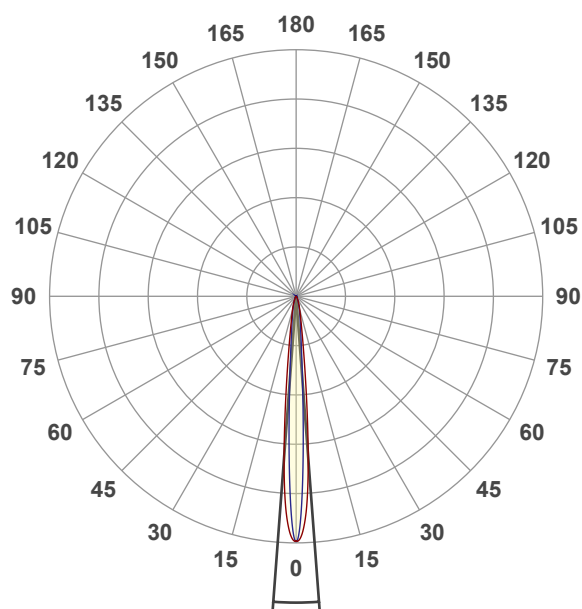
Red

Operator:

Paolo Carvone

Date and time:

08/07/2022 12:13:00

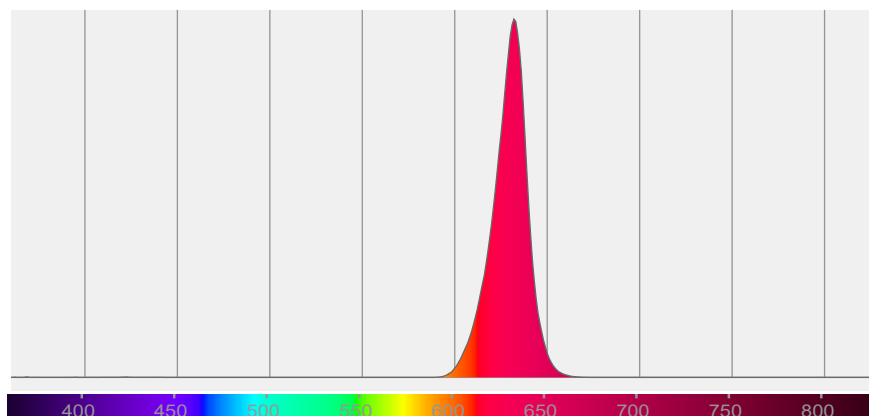


Beam angle 50%: 8,6°

Field angle 10%: 20,6°

Cut off angle 2.5%: 41,1°

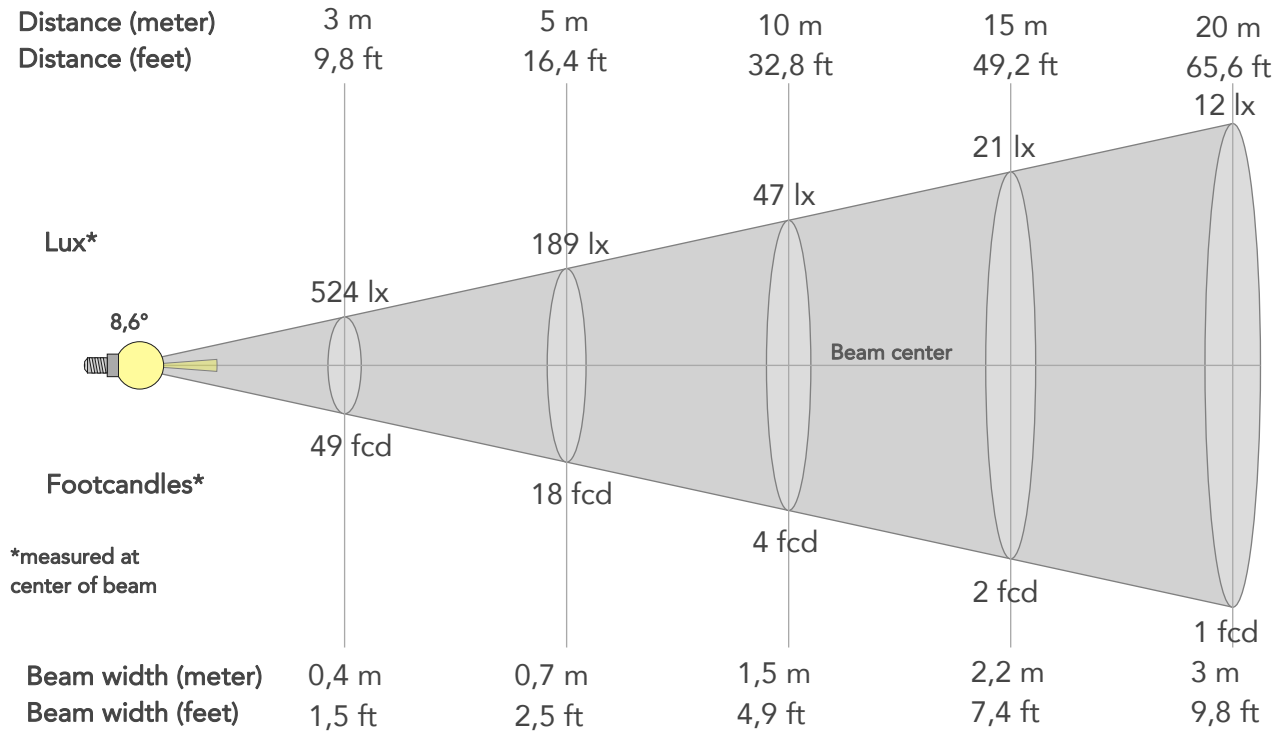
Spectra



BEAM DETAILS



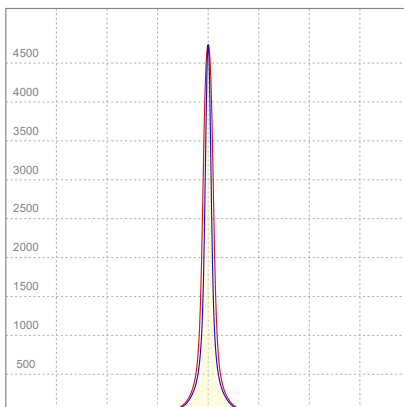
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
8,6°	20,6°	41,1°	100,0%	98,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4719lx	1180lx	524lx	295lx	189lx	84lx	47lx	21lx	12lx	8lx	5lx	3lx	2lx
Footcand.	438fcd	110fcd	49fcd	27fcd	18fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,1m	0,3m	0,4m	0,6m	0,7m	1,1m	1,5m	2,2m	3m	3,7m	4,5m	6m	7,5m
Beam wid.	0,5ft	1ft	1,5ft	2ft	2,5ft	3,7ft	4,9ft	7,4ft	9,8ft	12,3ft	14,7ft	19,6ft	24,5ft

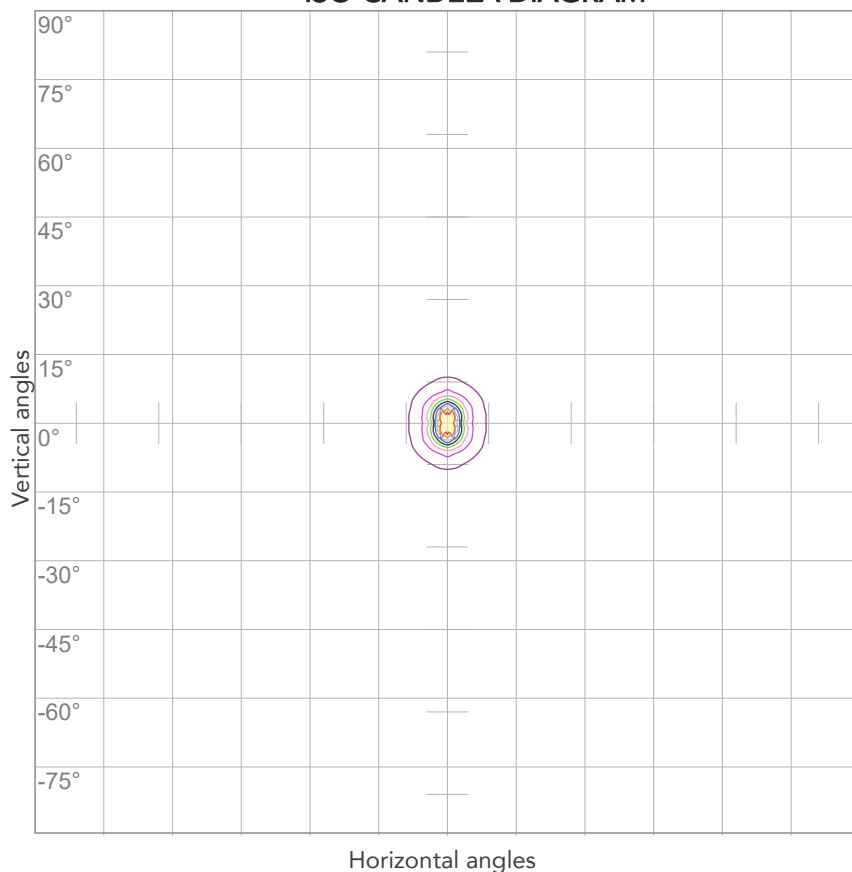
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,060A	8,0W	33lm/W
Power FC			
0,59			

ISO CANDELA DIAGRAM



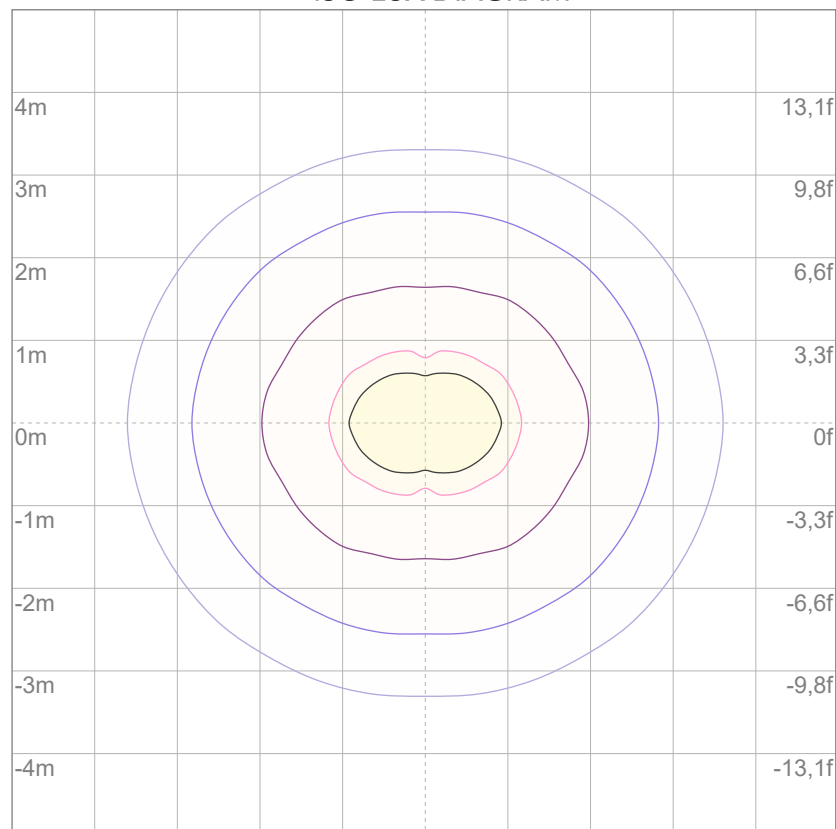
10%	472 cd
20%	944 cd
30%	1416 cd
40%	1887 cd
50%	2359 cd
60%	2831 cd
70%	3303 cd
80%	3775 cd

Conditions:

Number of c-planes: 4

Candela at center: 4719 cd

ISO LUX DIAGRAM



3%	1,42 lx
5%	2,36 lx
10%	4,72 lx
30%	14,2 lx
50%	23,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 47,2 lx

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

Total lumen output:

255 lm

Peak candela output:

770 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 20°

Target:

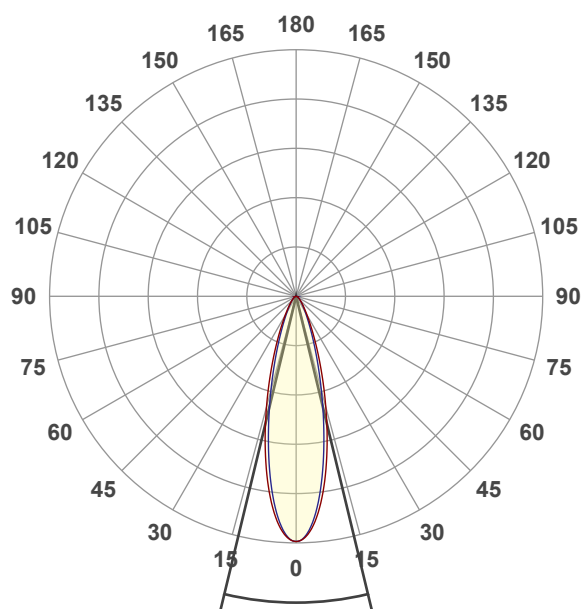
Red

Operator:

Paolo Carvone

Date and time:

08/07/2022 12:57:22

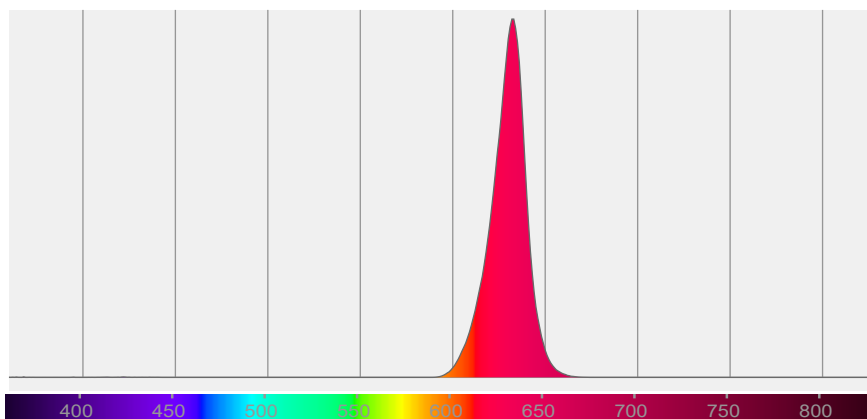


Beam angle 50%: 27,1°

Field angle 10%: 56,1°

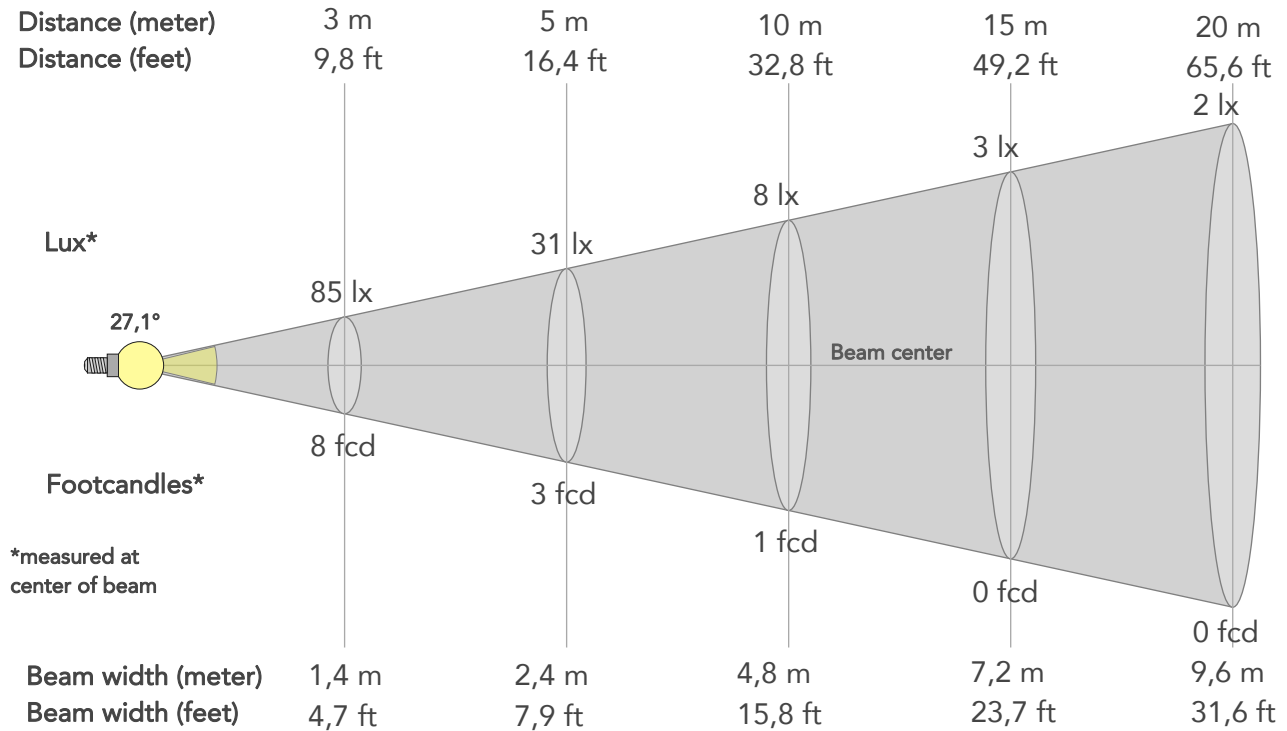
Cut off angle 2.5%: 88,2°

Spectra



BEAM DETAILS

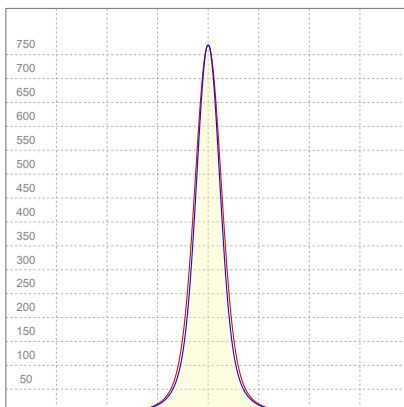
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,1°	56,1°	88,2°	98,5%	92,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	769lx	192lx	85lx	48lx	31lx	14lx	8lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	71fcd	18fcd	8fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,6m	12,1m	14,5m	19,3m	24,1m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,9ft	15,8ft	23,7ft	31,6ft	39,5ft	47,5ft	63,3ft	79,1ft

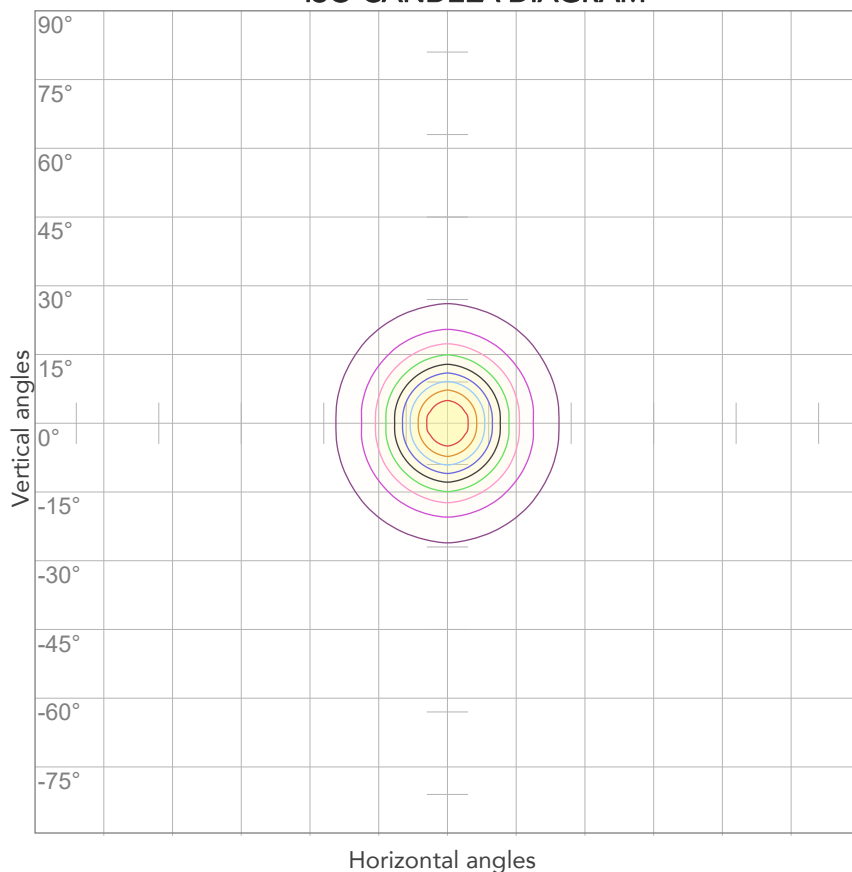
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,069A	10,2W	25lm/W
Power FC			
0,65			

ISO CANDELA DIAGRAM



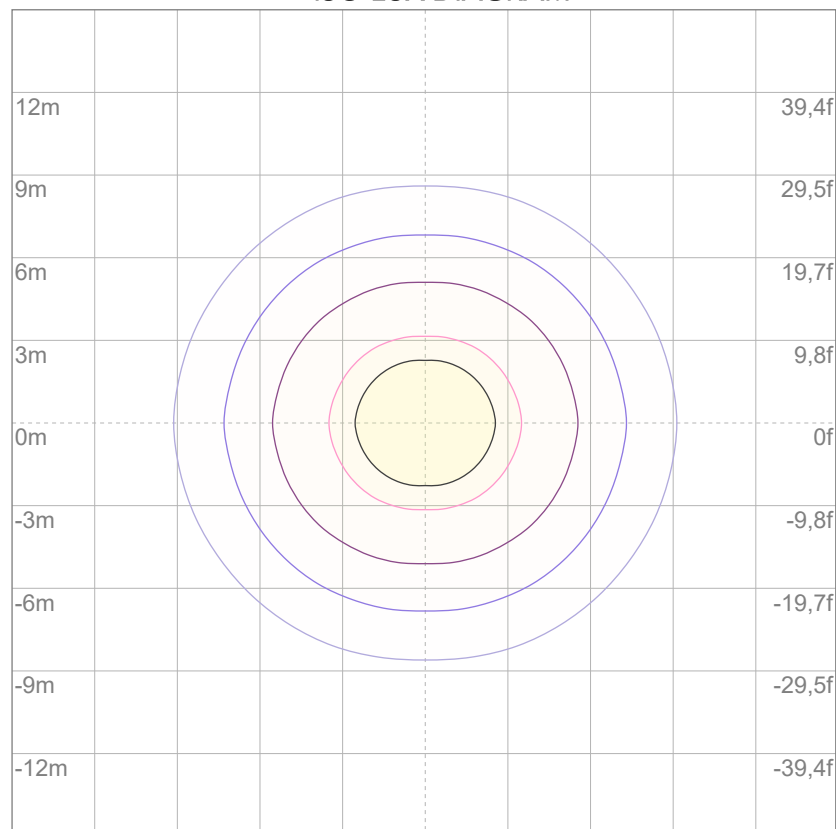
10%	77 cd
20%	154 cd
30%	231 cd
40%	308 cd
50%	385 cd
60%	462 cd
70%	538 cd
80%	615 cd

Conditions:

Number of c-planes: 4

Candela at center: 769 cd

ISO LUX DIAGRAM



3%	0,231 lx
5%	0,385 lx
10%	0,769 lx
30%	2,31 lx
50%	3,85 lx

Conditions:

Number of c-planes: 4

Lux at center: 7,69 lx

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

Total lumen output:

256 lm

Peak candela output:

307 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 40°

Target:

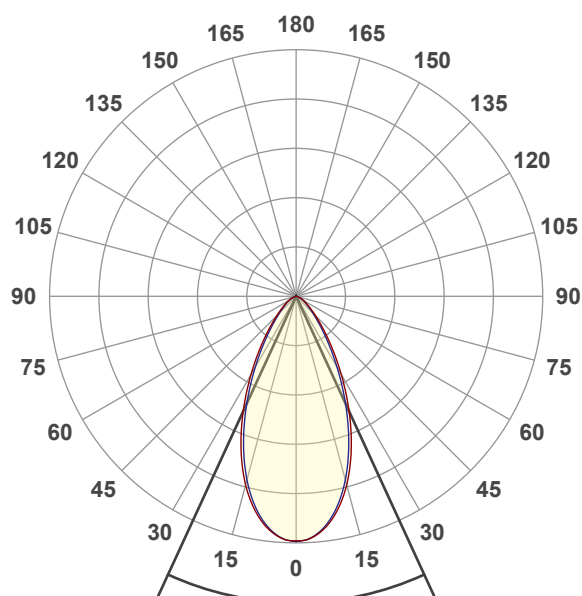
Red

Operator:

Paolo Carvone

Date and time:

08/07/2022 13:17:04

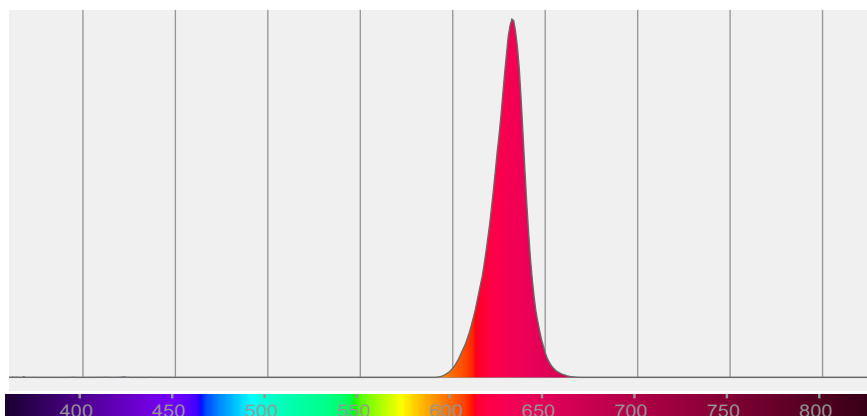


Beam angle 50%: 49,4°

Field angle 10%: 90,8°

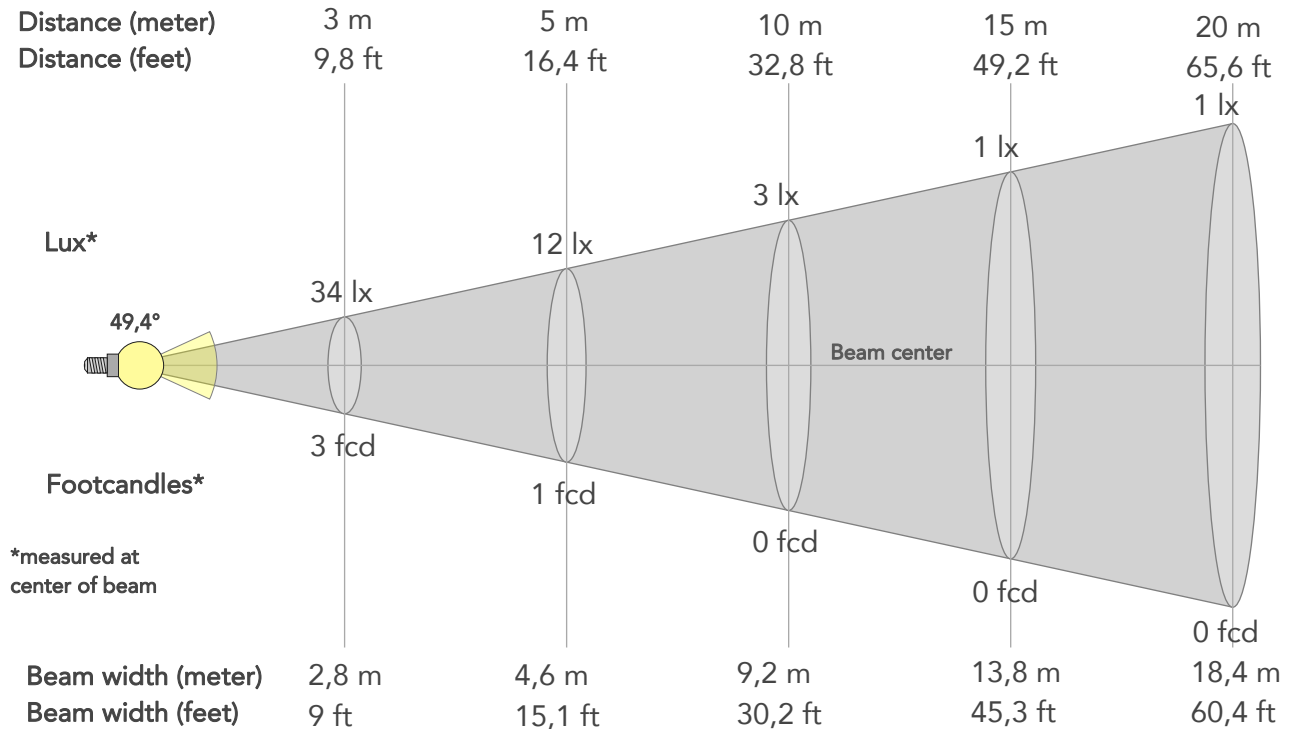
Cut off angle 2.5%: 127°

Spectra



BEAM DETAILS

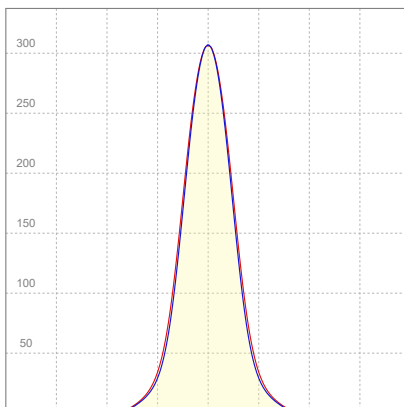
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,4°	90,8°	127°	96,7%	87,3%



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	306lx	77lx	34lx	19lx	12lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	28fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,8m	3,7m	4,6m	6,9m	9,2m	13,8m	18,4m	23m	27,6m	36,8m	46m
Beam wid.	3ft	6,1ft	9ft	12,1ft	15,1ft	22,6ft	30,2ft	45,3ft	60,4ft	75,5ft	90,6ft	120,8ft	151ft

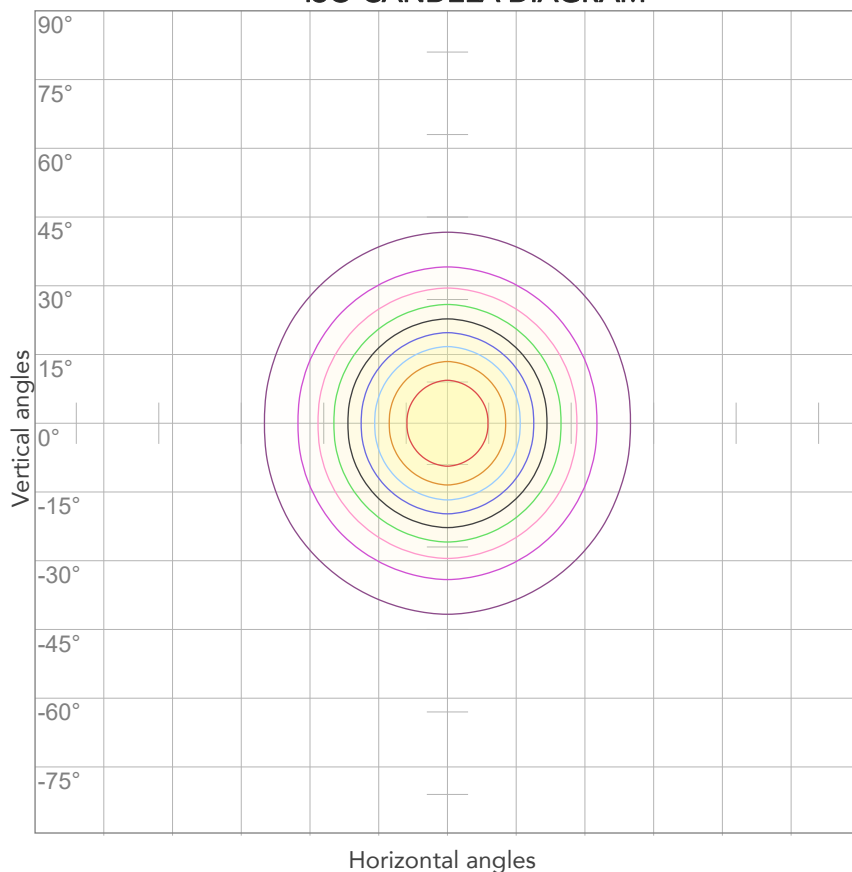
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,067A	9,3W	28lm/W
Power FC			
0,62			

ISO CANDELA DIAGRAM



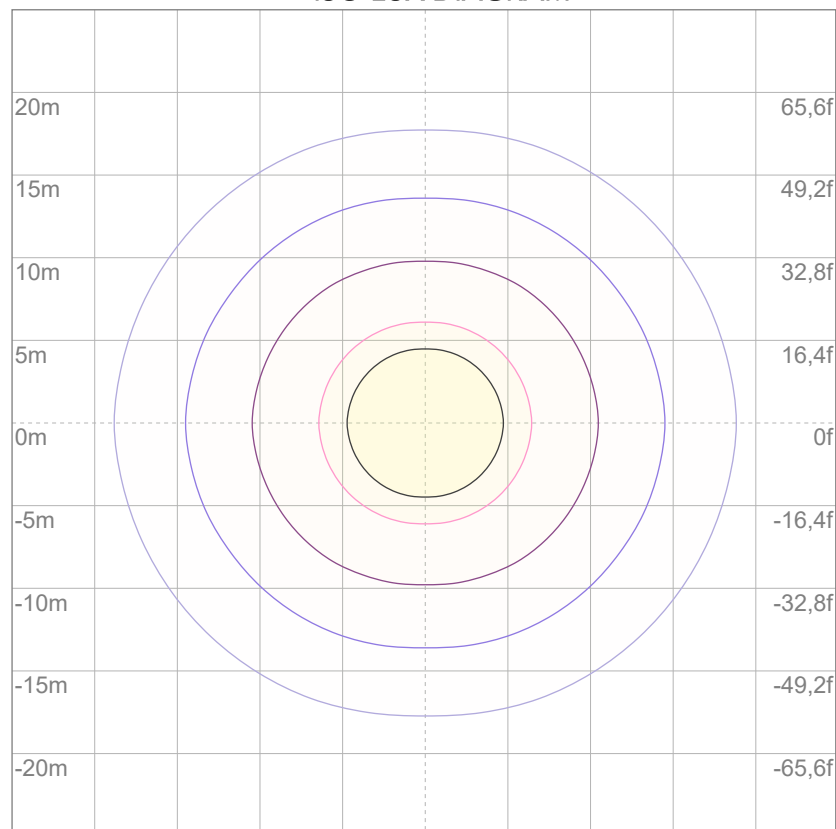
10%	31 cd
20%	61 cd
30%	92 cd
40%	123 cd
50%	153 cd
60%	184 cd
70%	214 cd
80%	245 cd

Conditions:

Number of c-planes: 4

Candela at center: 306 cd

ISO LUX DIAGRAM



3%	91,9m lx
5%	0,153 lx
10%	0,306 lx
30%	0,919 lx
50%	1,53 lx

Conditions:

Number of c-planes: 4

Lux at center: 3,06 lx

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

Total lumen output:

281 lm

Peak candela output:

248 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 60°

Target:

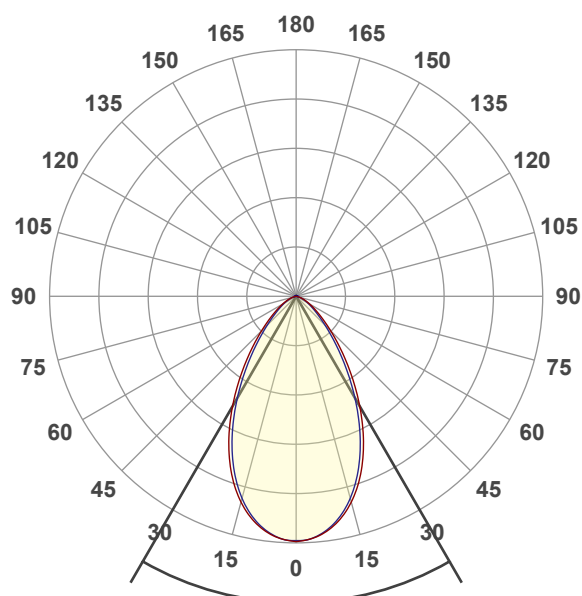
Red

Operator:

Paolo Carvone

Date and time:

08/07/2022 14:13:27

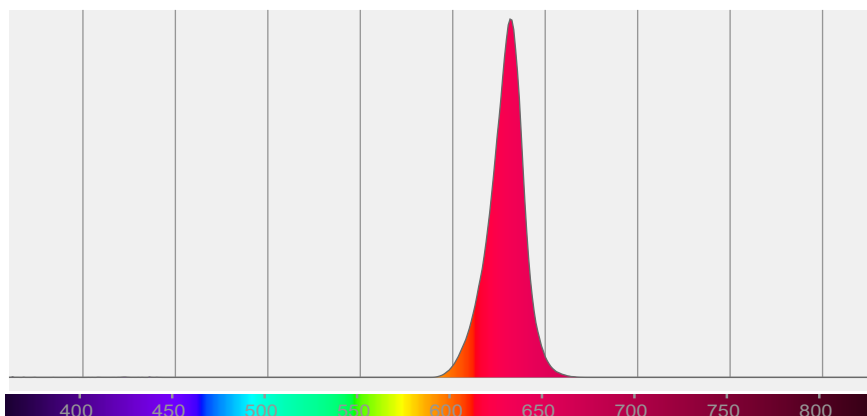


Beam angle 50%: 60,1°

Field angle 10%: 106,1°

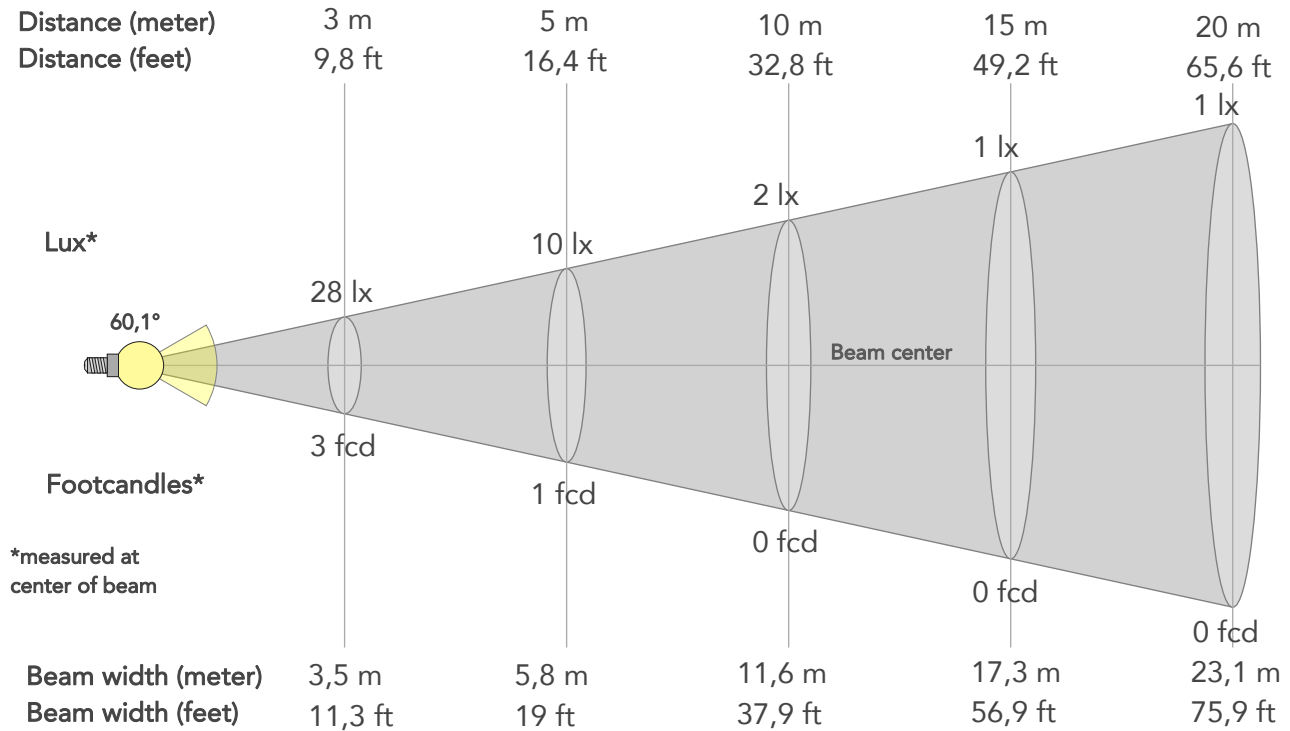
Cut off angle 2.5%: 138,6°

Spectra



BEAM DETAILS

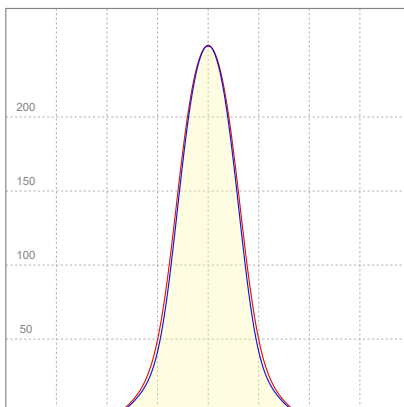
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60,1°	106,1°	138,6°	95,4%	82,9%



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	248lx	62lx	28lx	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.	1,2m	2,3m	3,5m	4,6m	5,8m	8,7m	11,6m	17,3m	23,1m	28,9m	34,7m	46,3m	57,8m
Beam wid.	3,8ft	7,6ft	11,3ft	15,2ft	19ft	28,5ft	37,9ft	56,9ft	75,9ft	94,8ft	113,8ft	151,8ft	189,7ft

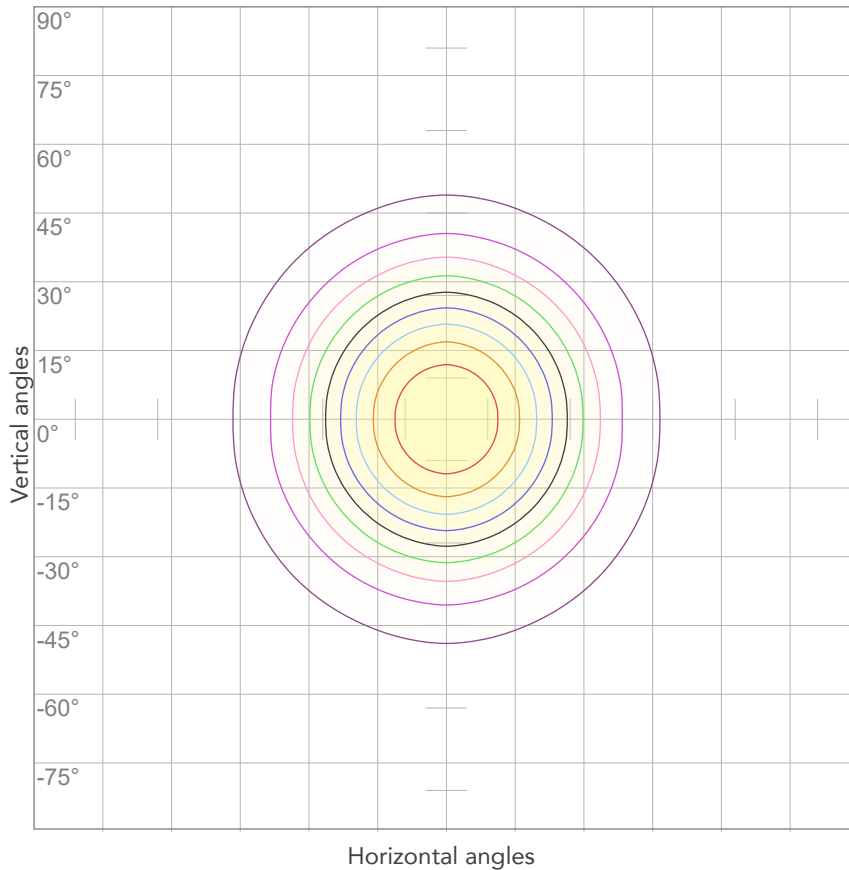
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
229V	0,066A	9,3W	30lm/W
Power FC			
0,62			

ISO CANDELA DIAGRAM



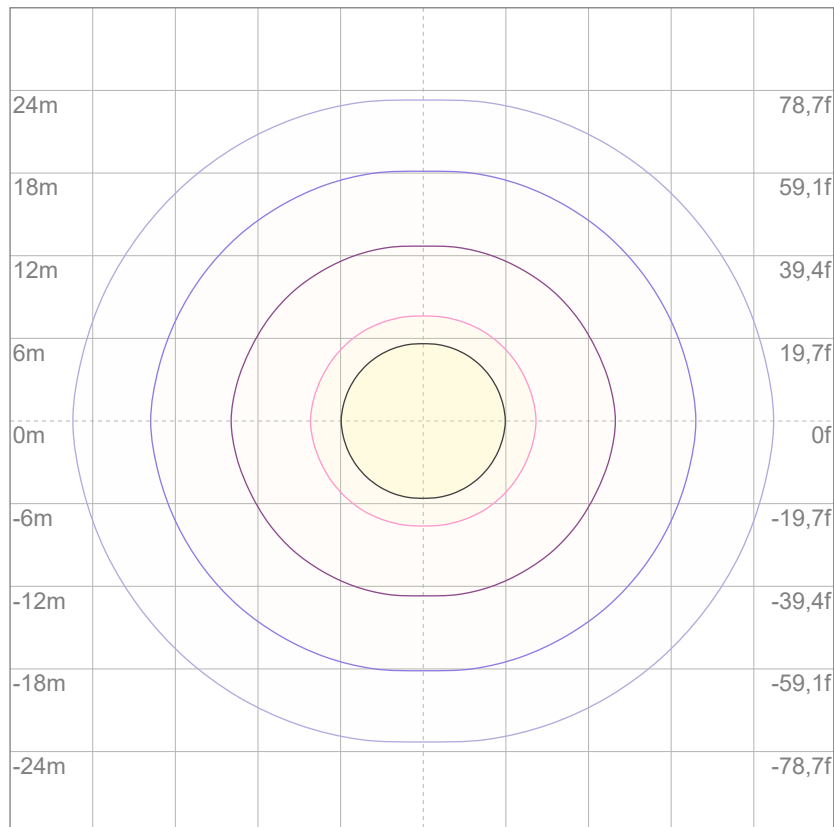
10%	25 cd
20%	50 cd
30%	74 cd
40%	99 cd
50%	124 cd
60%	149 cd
70%	174 cd
80%	198 cd

Conditions:

Number of c-planes: 4

Candela at center: 248 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	74,4m lx
5%	0,124 lx
10%	0,248 lx
30%	0,744 lx
50%	1,24 lx

Conditions:

Number of c-planes: 4

Lux at center: 2,48 lx

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

Total lumen output:

353 lm

Peak candela output:

549 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 10°x60°

Target:

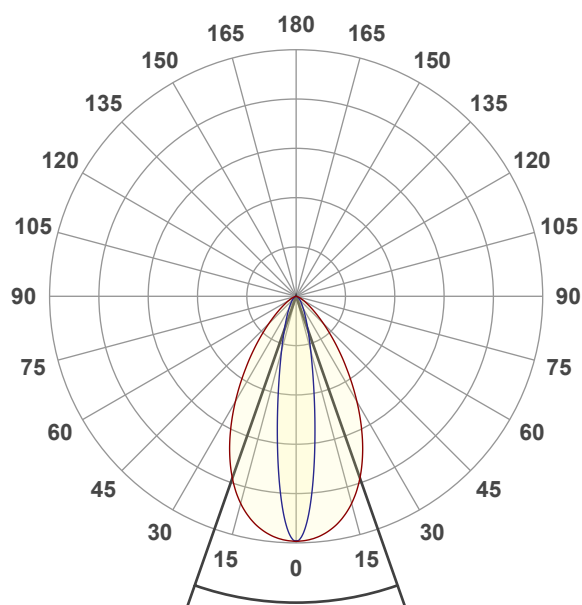
Red

Operator:

Paolo Carvone

Date and time:

08/07/2022 14:35:51

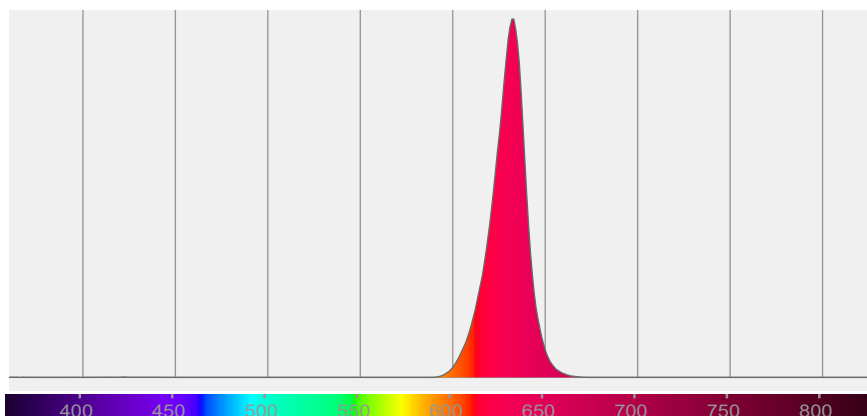


Beam angle 50%: 38,7°

Field angle 10%: 73,2°

Cut off angle 2.5%: 106,6°

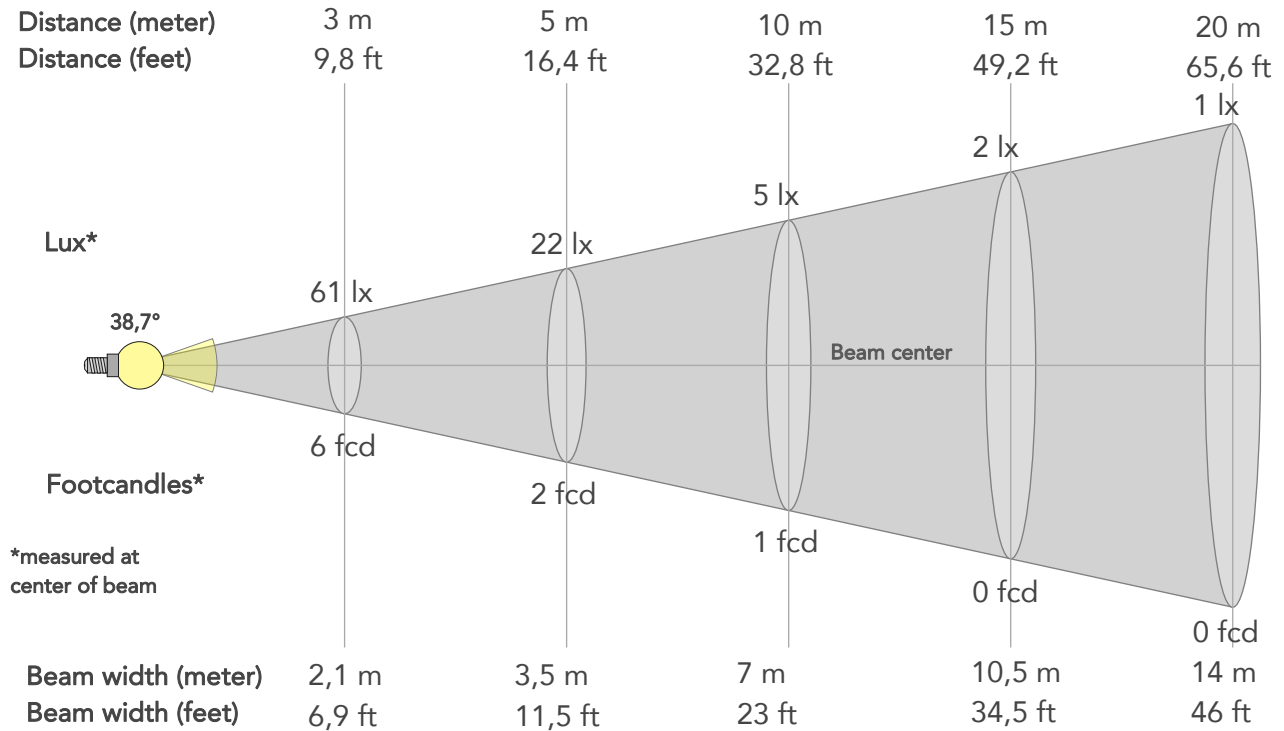
Spectra



BEAM DETAILS



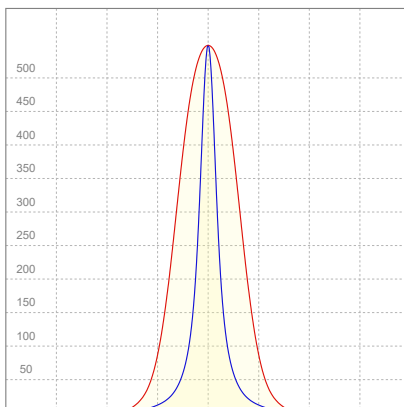
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38,7°	73,2°	106,6°	97,4%	87,8%



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	548lx	137lx	61lx	34lx	22lx	10lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	51fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,3m	7m	10,5m	14m	17,5m	21,1m	28,1m	35,1m
Beam wid.	2,3ft	4,6ft	6,9ft	9,2ft	11,5ft	17,3ft	23ft	34,5ft	46ft	57,5ft	69ft	92,1ft	115,1ft

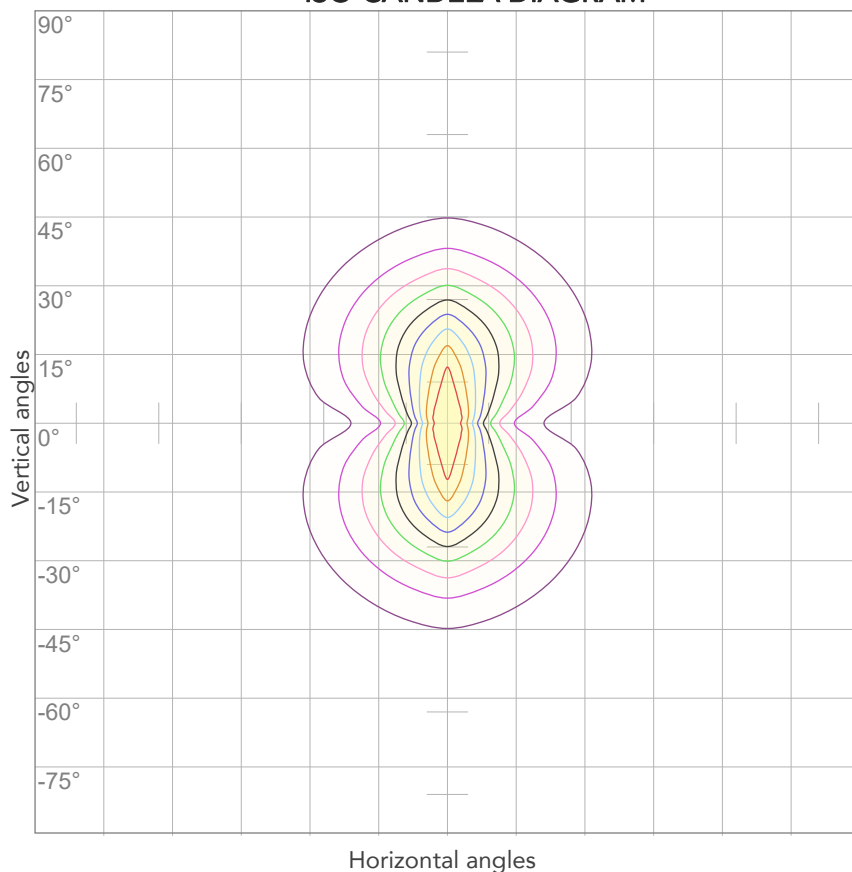
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,066A	9,2W	38lm/W
Power FC			
0,61			

ISO CANDELA DIAGRAM



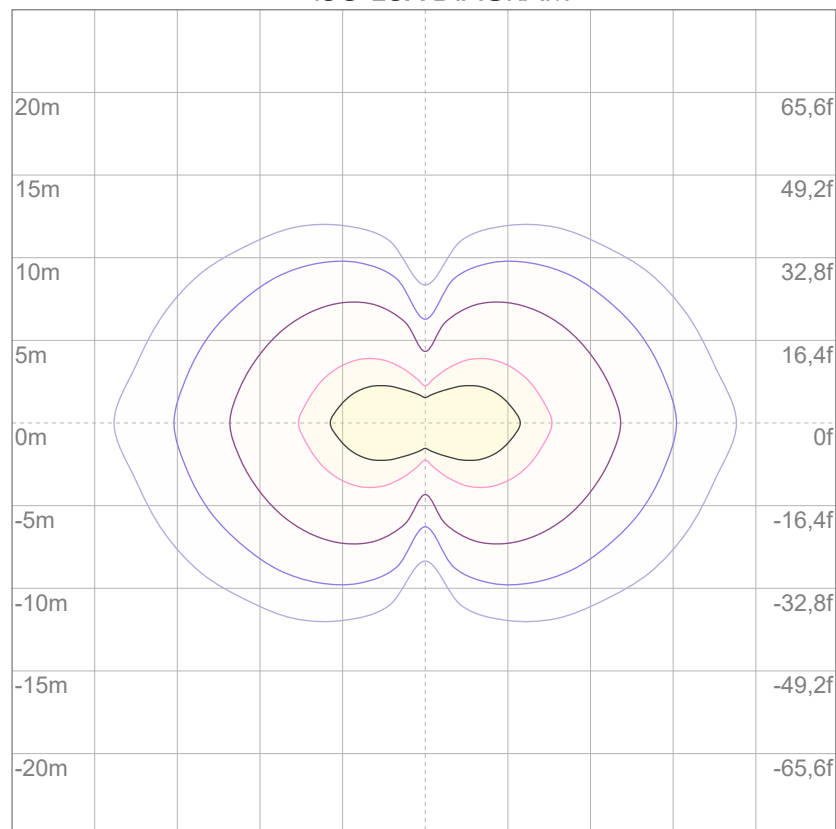
10%	55 cd
20%	110 cd
30%	164 cd
40%	219 cd
50%	274 cd
60%	329 cd
70%	383 cd
80%	438 cd

Conditions:

Number of c-planes: 4

Candela at center: 548 cd

ISO LUX DIAGRAM



3%	0,164 lx
5%	0,274 lx
10%	0,548 lx
30%	1,64 lx
50%	2,74 lx

Conditions:

Number of c-planes: 4

Lux at center: 5,48 lx

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

Total lumen output:

289 lm

Peak candela output:

314 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 30°x60°

Target:

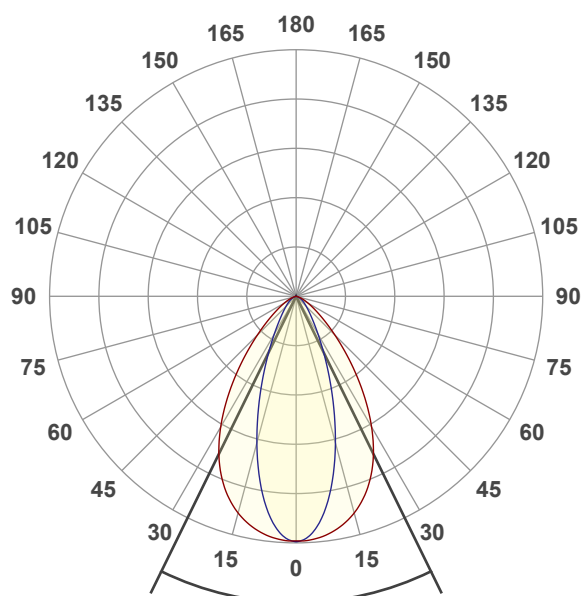
Red

Operator:

Paolo Carvone

Date and time:

08/07/2022 15:12:28

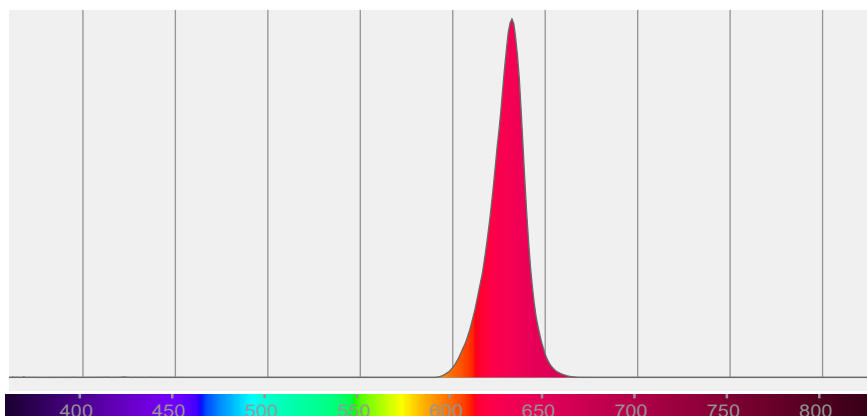


Beam angle 50%: 52,2°

Field angle 10%: 91°

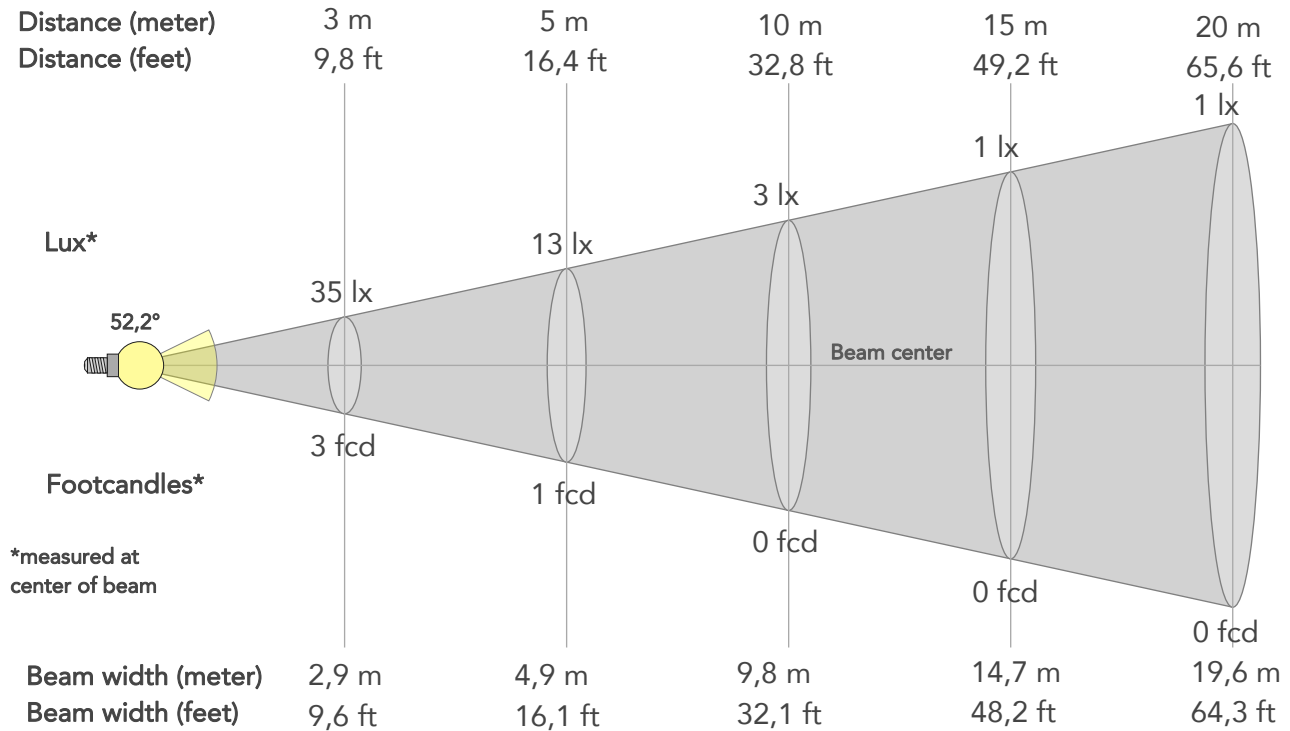
Cut off angle 2.5%: 126,5°

Spectra



BEAM DETAILS

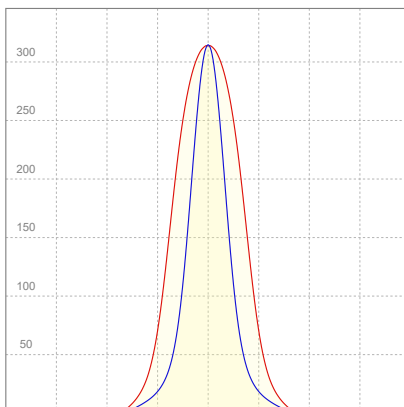
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,2°	91°	126,5°	96,7%	85,5%



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	314lx	78lx	35lx	20lx	13lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx	0lx
Footcand.	29fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	2,9m	3,9m	4,9m	7,4m	9,8m	14,7m	19,6m	24,5m	29,4m	39,2m	49m
Beam wid.	3,2ft	6,5ft	9,6ft	12,8ft	16,1ft	24,1ft	32,1ft	48,2ft	64,3ft	80,4ft	96,4ft	128,6ft	160,7ft

LINEAR DISTRIBUTION DIAGRAM

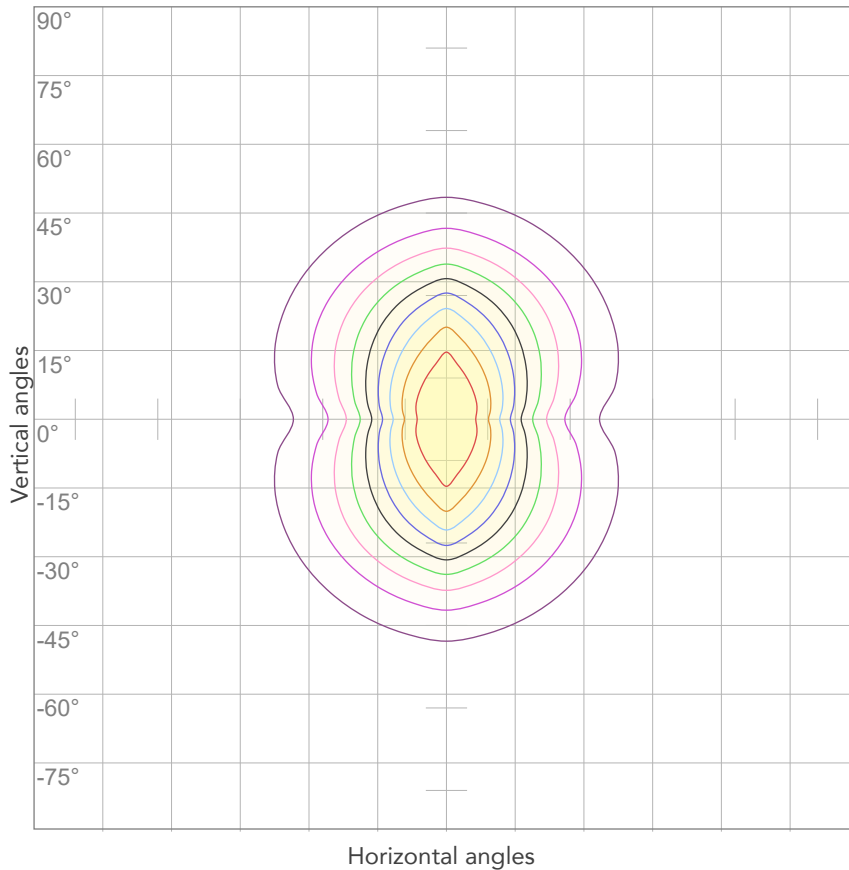


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,067A	9,3W	31lm/W

Power FC
0,62

ISO CANDELA DIAGRAM



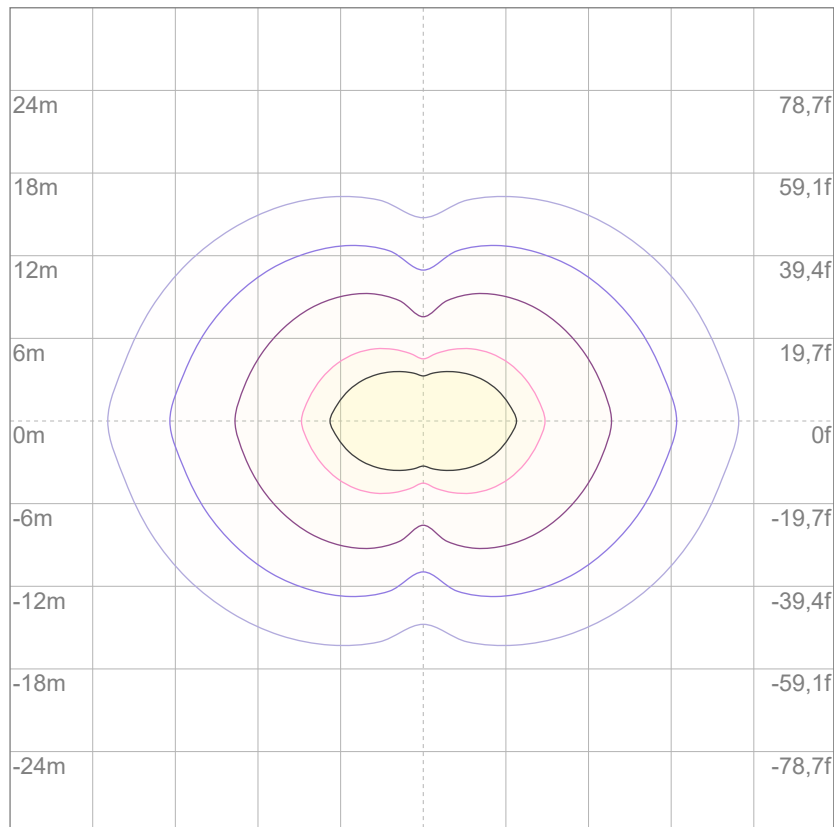
10%	31 cd
20%	63 cd
30%	94 cd
40%	126 cd
50%	157 cd
60%	188 cd
70%	220 cd
80%	251 cd

Conditions:

Number of c-planes: 4

Candela at center: 314 cd

ISO LUX DIAGRAM



3%	94,2m lx
5%	0,157 lx
10%	0,314 lx
30%	0,942 lx
50%	1,57 lx

Conditions:

Number of c-planes: 4

Lux at center: 3,14 lx

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

Total lumen output:

600 lm

Peak candela output:

9706 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°

Target:

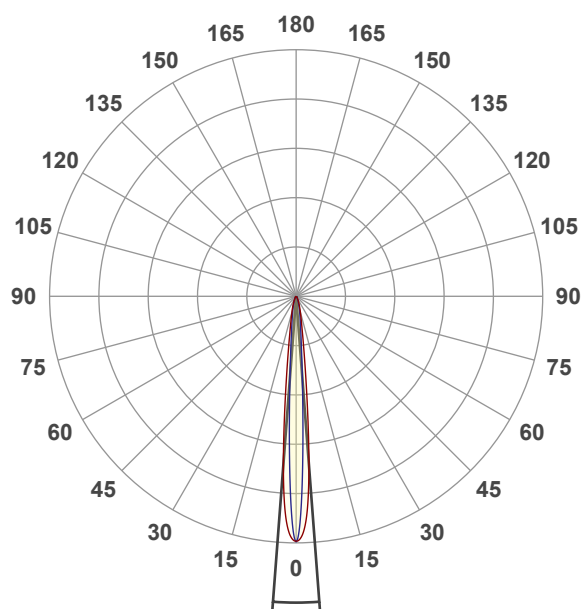
Green

Operator:

Paolo Carvone

Date and time:

08/07/2022 12:20:32

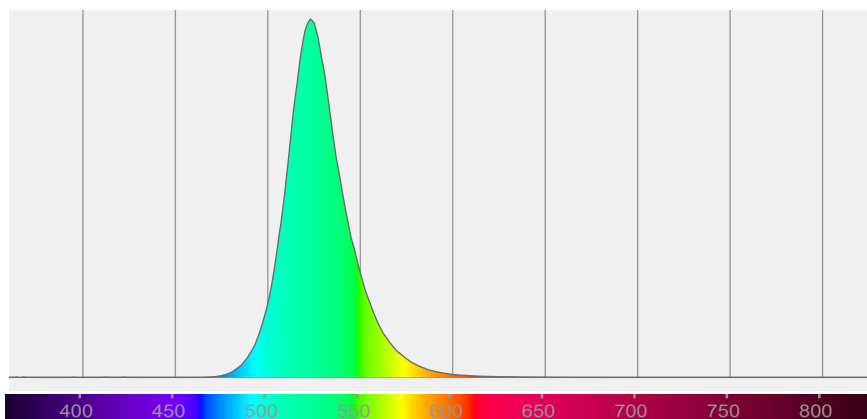


Beam angle 50%: 8,7°

Field angle 10%: 21,6°

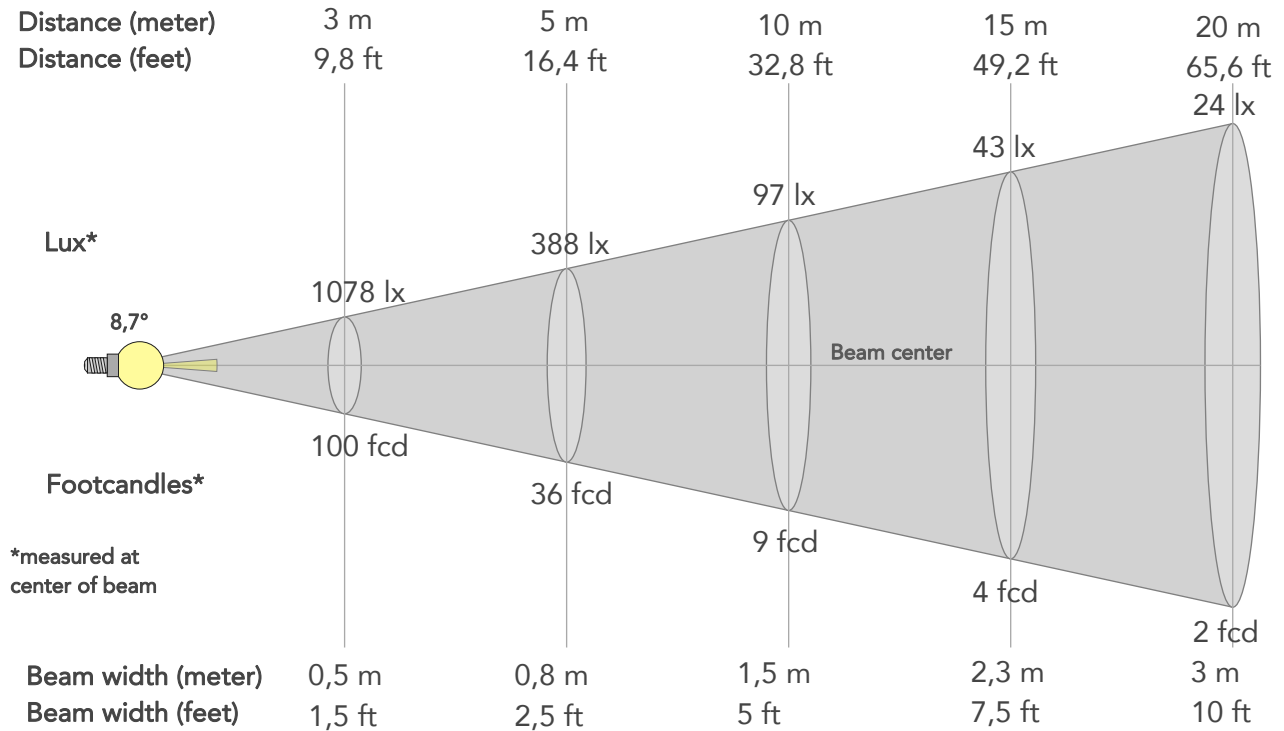
Cut off angle 2.5%: 43,3°

Spectra



BEAM DETAILS

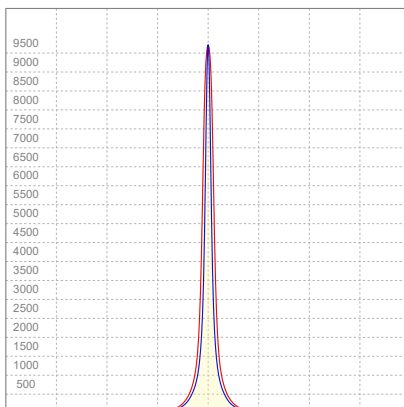
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
8,7°	21,6°	43,3°	99,9%	97,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	9701lx	2425lx	1078lx	606lx	388lx	172lx	97lx	43lx	24lx	16lx	11lx	6lx	4lx
Footcand.	901fcd	225fcd	100fcd	56fcd	36fcd	16fcd	9fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,2m	0,3m	0,5m	0,6m	0,8m	1,1m	1,5m	2,3m	3m	3,8m	4,6m	6,1m	7,6m
Beam wid.	0,5ft	1ft	1,5ft	2ft	2,5ft	3,7ft	5ft	7,5ft	10ft	12,4ft	14,9ft	19,9ft	24,9ft

LINEAR DISTRIBUTION DIAGRAM

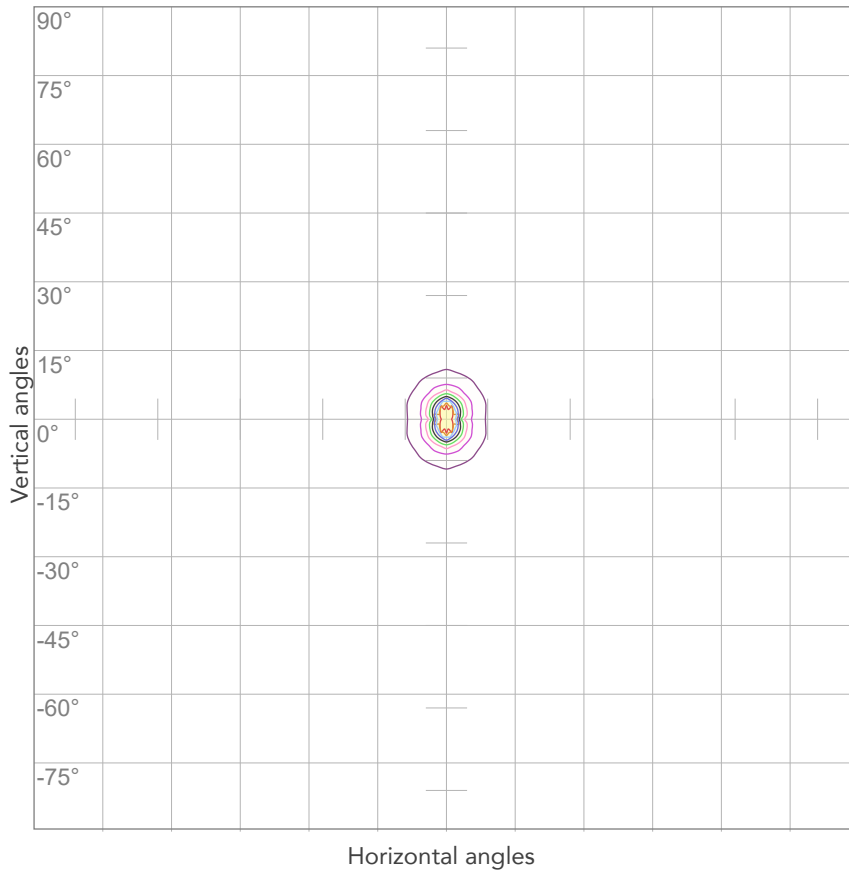


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,076A	11,6W	52lm/W

Power FC
0,68

ISO CANDELA DIAGRAM



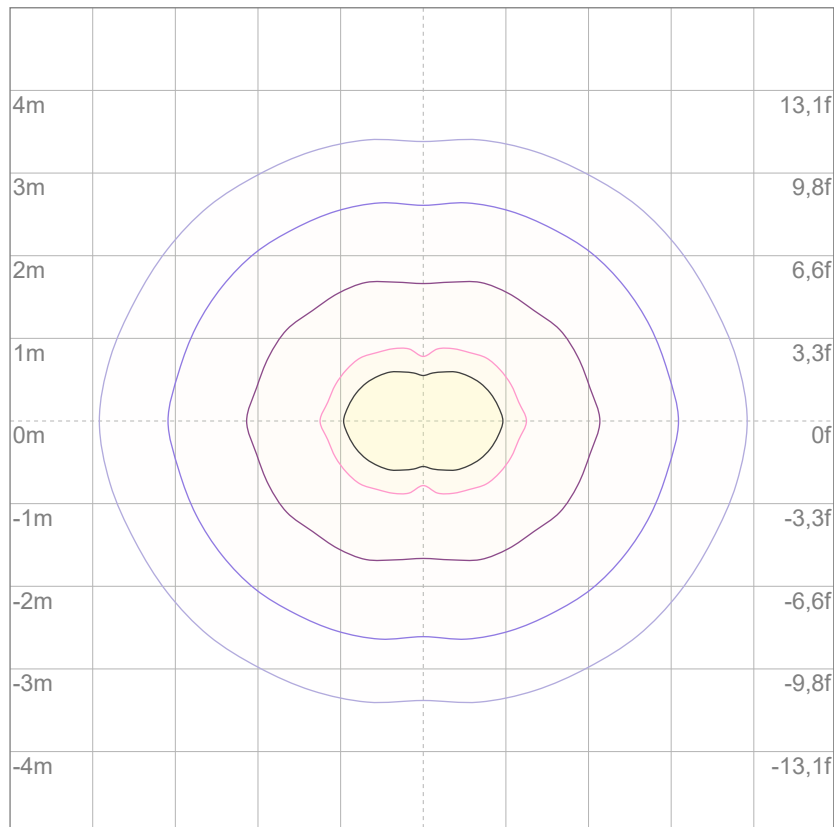
10%	970 cd
20%	1940 cd
30%	2910 cd
40%	3880 cd
50%	4850 cd
60%	5820 cd
70%	6790 cd
80%	7760 cd

Conditions:

Number of c-planes: 4

Candela at center: 9701 cd

ISO LUX DIAGRAM



3%	2,91 lx
5%	4,85 lx
10%	9,70 lx
30%	29,1 lx
50%	48,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 97,0 lx

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

Total lumen output:

545 lm

Peak candela output:

1585 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 20°

Target:

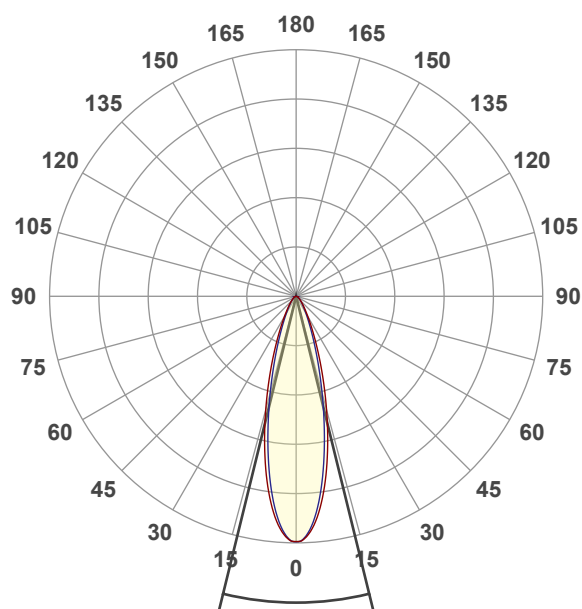
Green

Operator:

Paolo Carvone

Date and time:

08/07/2022 13:00:07

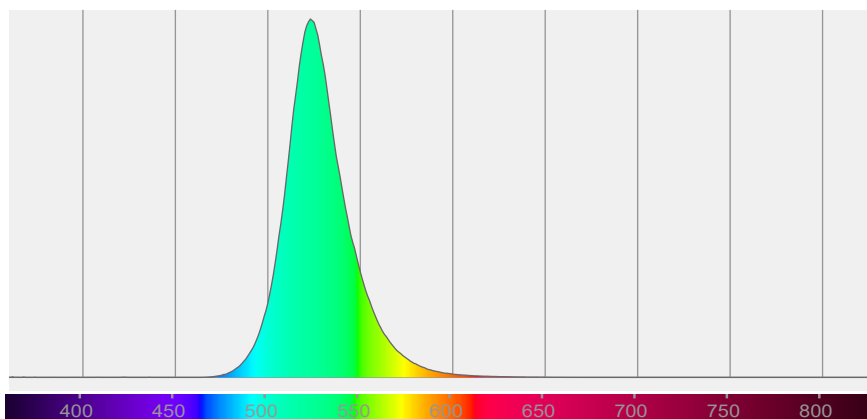


Beam angle 50%: 27,6°

Field angle 10%: 57,2°

Cut off angle 2.5%: 90,5°

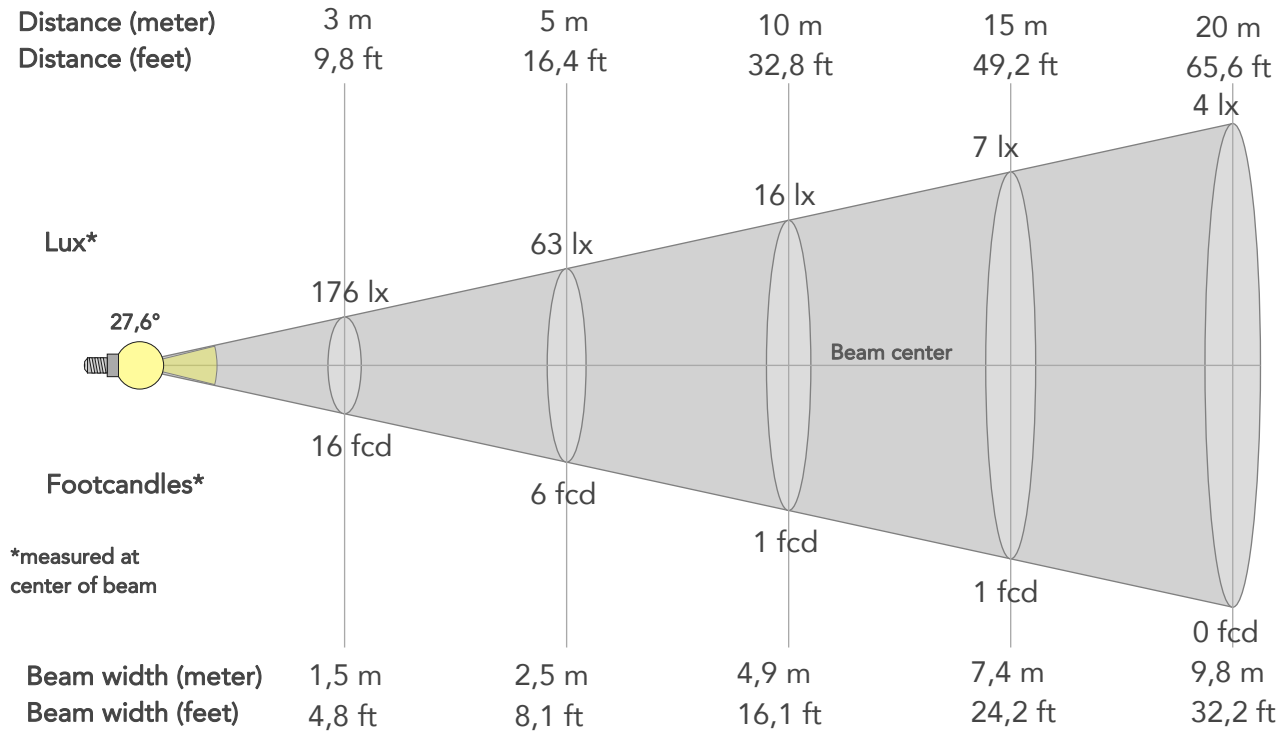
Spectra



BEAM DETAILS



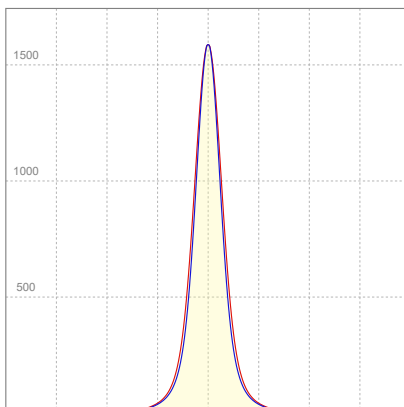
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,6°	57,2°	90,5°	98,4%	92,5%



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	1584lx	396lx	176lx	99lx	63lx	28lx	16lx	7lx	4lx	3lx	2lx	1lx	1lx
Footcand.	147fcd	37fcd	16fcd	9fcd	6fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,5m	3,7m	4,9m	7,4m	9,8m	12,3m	14,7m	19,6m	24,6m
Beam wid.	1,6ft	3,2ft	4,8ft	6,4ft	8,1ft	12,1ft	16,1ft	24,2ft	32,2ft	40,3ft	48,3ft	64,4ft	80,6ft

LINEAR DISTRIBUTION DIAGRAM

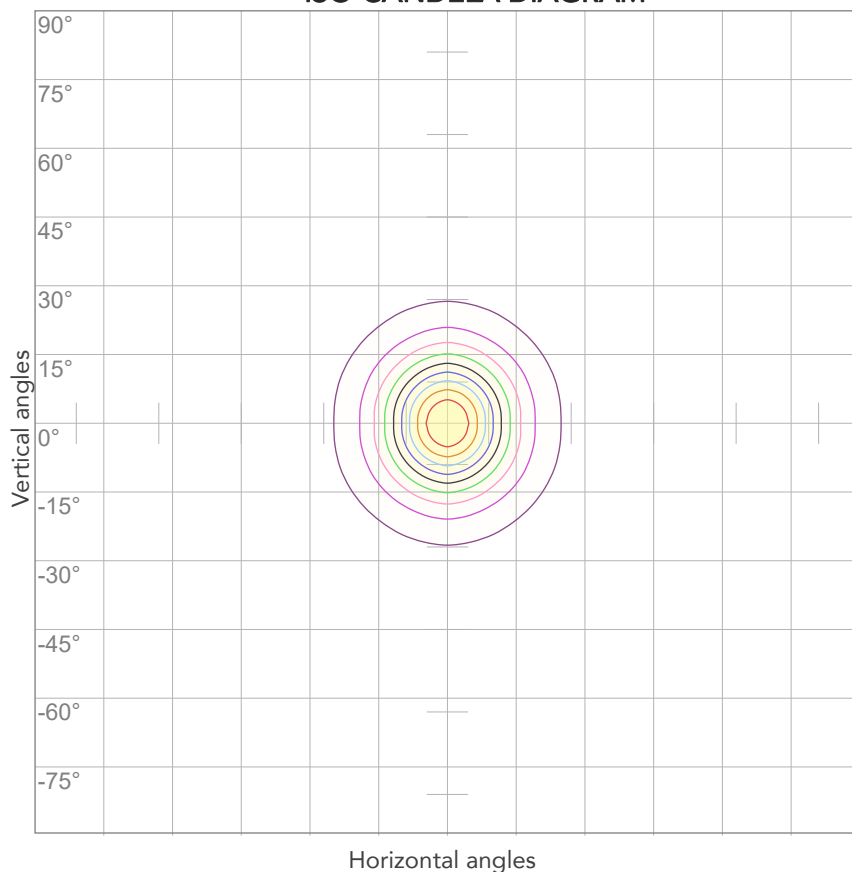


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,074A	11,0W	50lm/W

Power FC
0,66

ISO CANDELA DIAGRAM



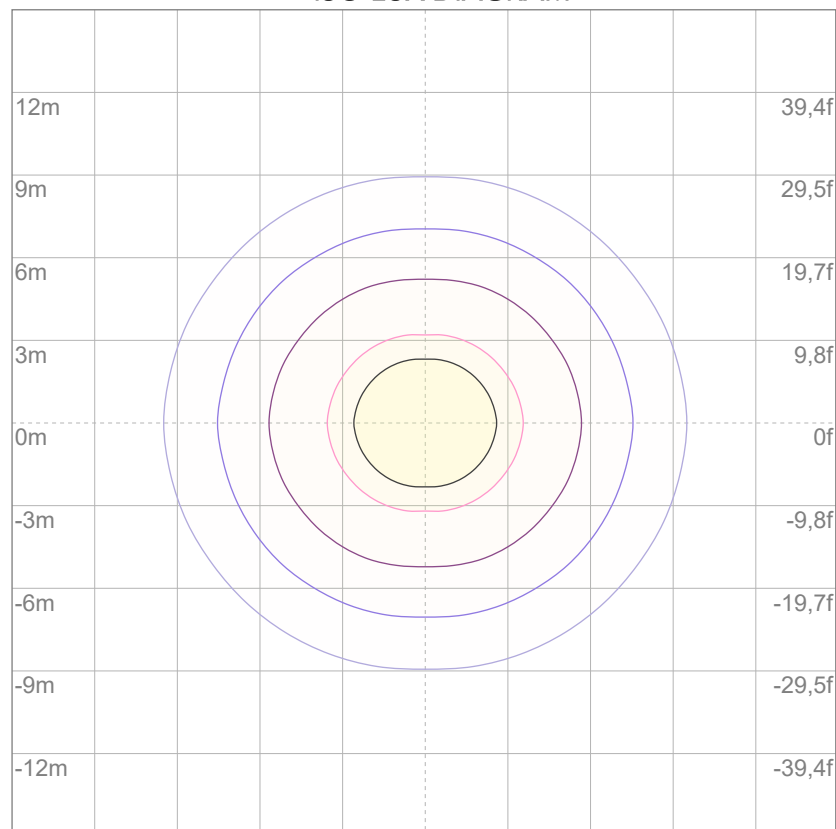
10%	158 cd
20%	317 cd
30%	475 cd
40%	634 cd
50%	792 cd
60%	951 cd
70%	1109 cd
80%	1268 cd

Conditions:

Number of c-planes: 4

Candela at center: 1584 cd

ISO LUX DIAGRAM



3%	0,475 lx
5%	0,792 lx
10%	1,58 lx
30%	4,75 lx
50%	7,92 lx

Conditions:

Number of c-planes: 4

Lux at center: 15,8 lx

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

Total lumen output:

547 lm

Peak candela output:

625 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 40°

Target:

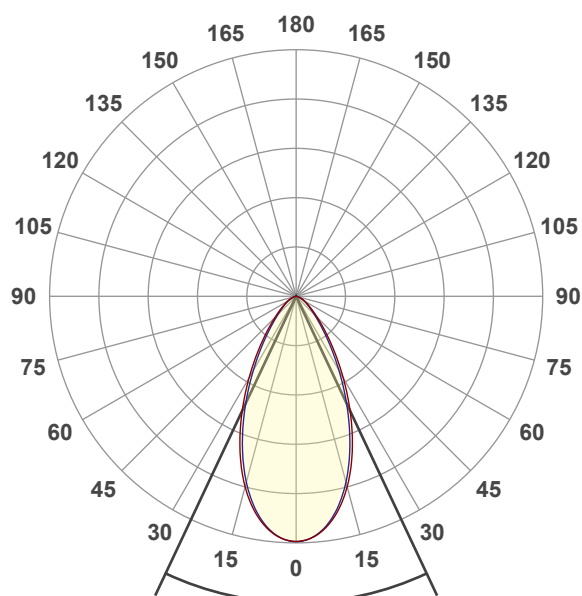
Green

Operator:

Paolo Carvone

Date and time:

08/07/2022 13:19:57

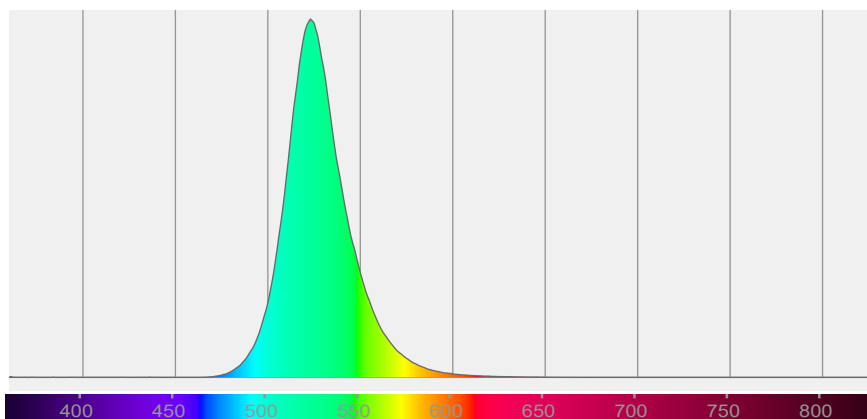


Beam angle 50%: 50,4°

Field angle 10%: 93,3°

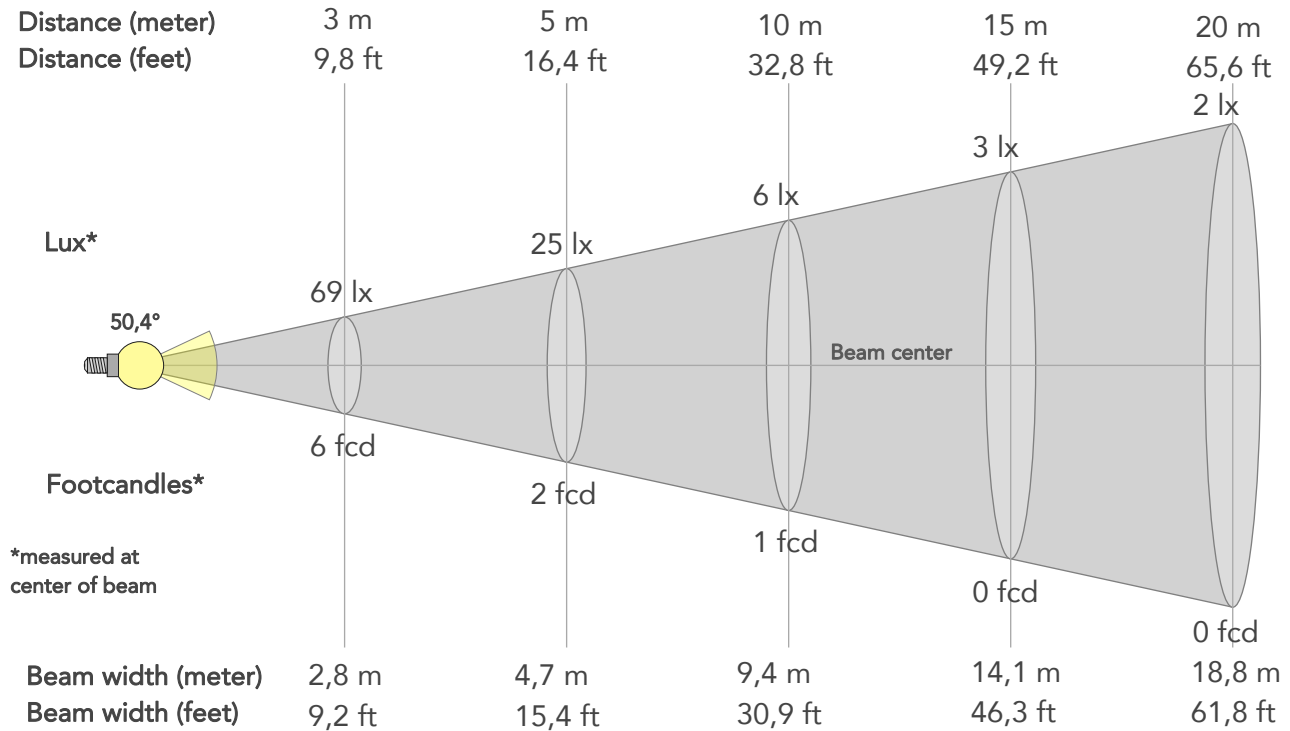
Cut off angle 2.5%: 130,9°

Spectra



BEAM DETAILS

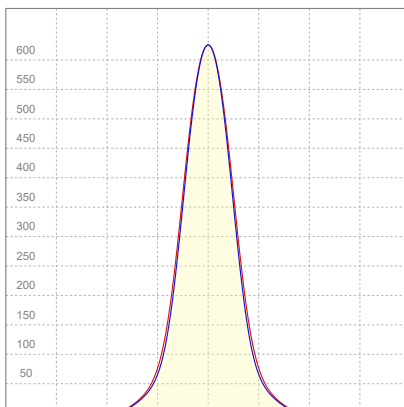
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50,4°	93,3°	130,9°	96,1%	85,9%



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	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.	0,9m	1,9m	2,8m	3,8m	4,7m	7,1m	9,4m	14,1m	18,8m	23,5m	28,3m	37,7m	47,1m
Beam wid.	3,1ft	6,2ft	9,2ft	12,3ft	15,4ft	23,2ft	30,9ft	46,3ft	61,8ft	77,2ft	92,7ft	123,6ft	154,5ft

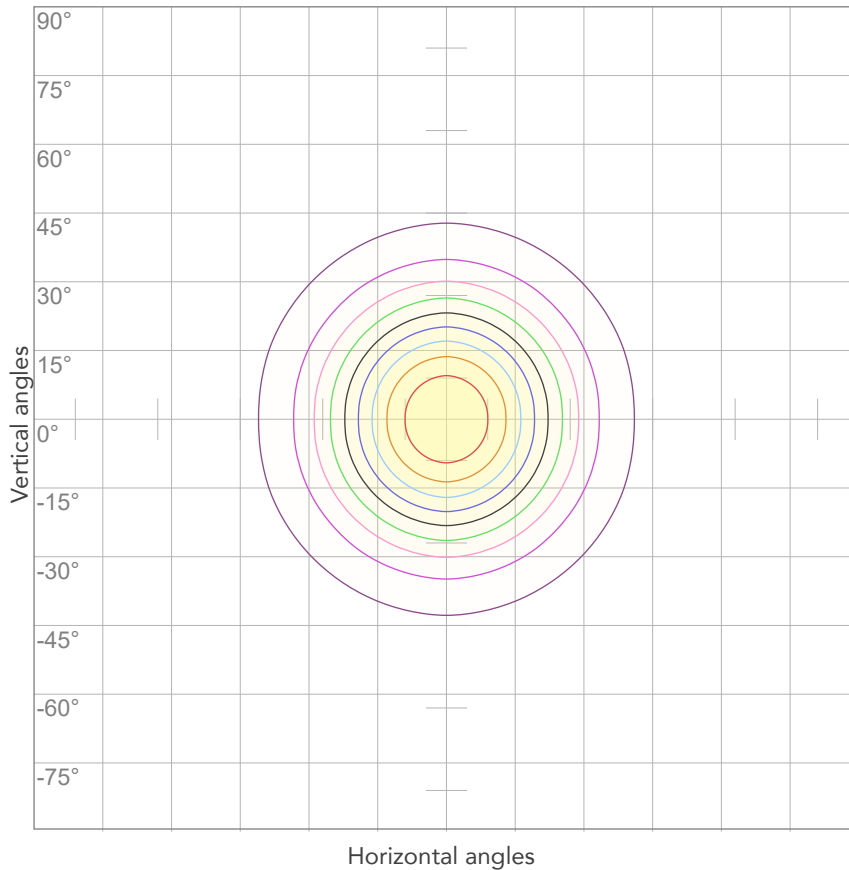
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,071A	10,6W	52lm/W
Power FC			
0,66			

ISO CANDELA DIAGRAM



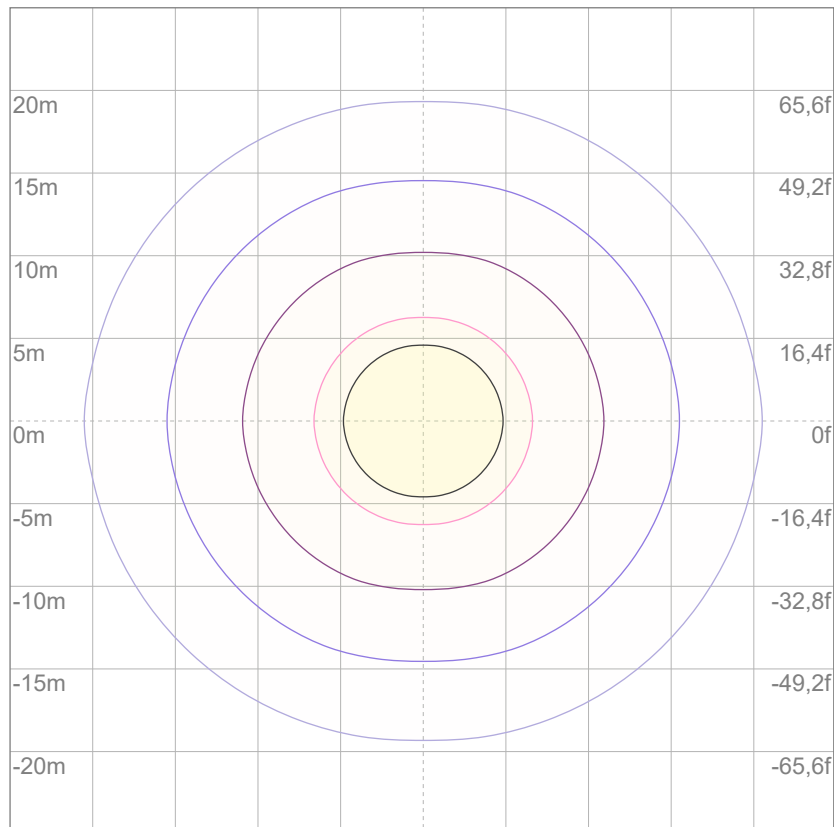
10%	62 cd
20%	125 cd
30%	187 cd
40%	250 cd
50%	312 cd
60%	375 cd
70%	437 cd
80%	500 cd

Conditions:

Number of c-planes: 4

Candela at center: 625 cd

ISO LUX DIAGRAM



3%	0,187 lx
5%	0,312 lx
10%	0,625 lx
30%	1,87 lx
50%	3,12 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:

549 lm

Peak candela output:

476 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 60°

Target:

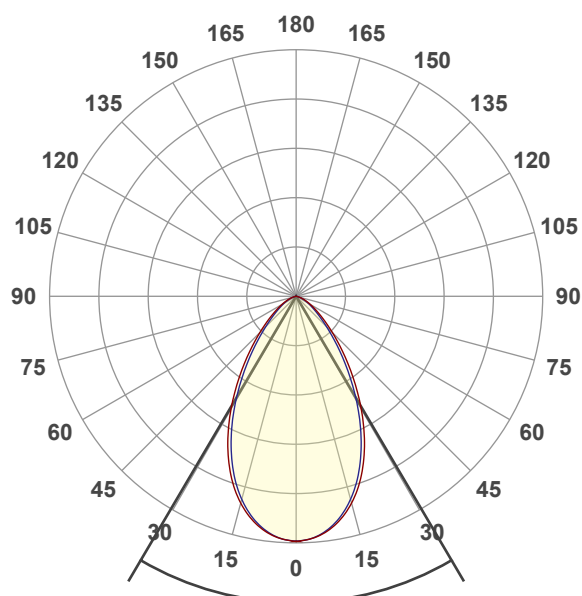
Green

Operator:

Paolo Carvone

Date and time:

08/07/2022 14:15:42

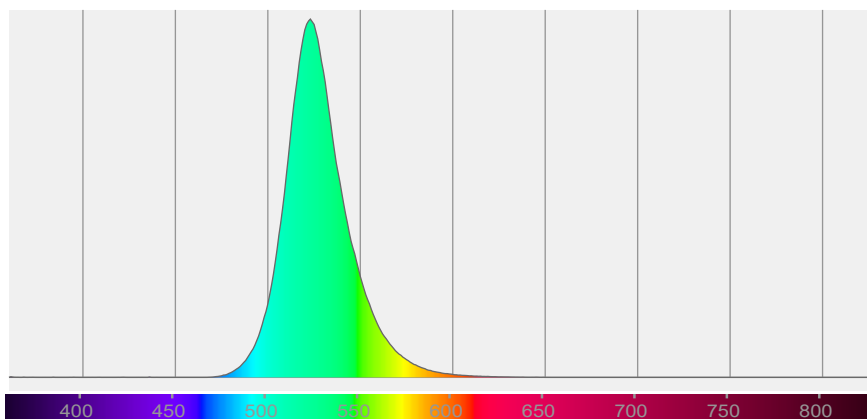


Beam angle 50%: 61°

Field angle 10%: 107,4°

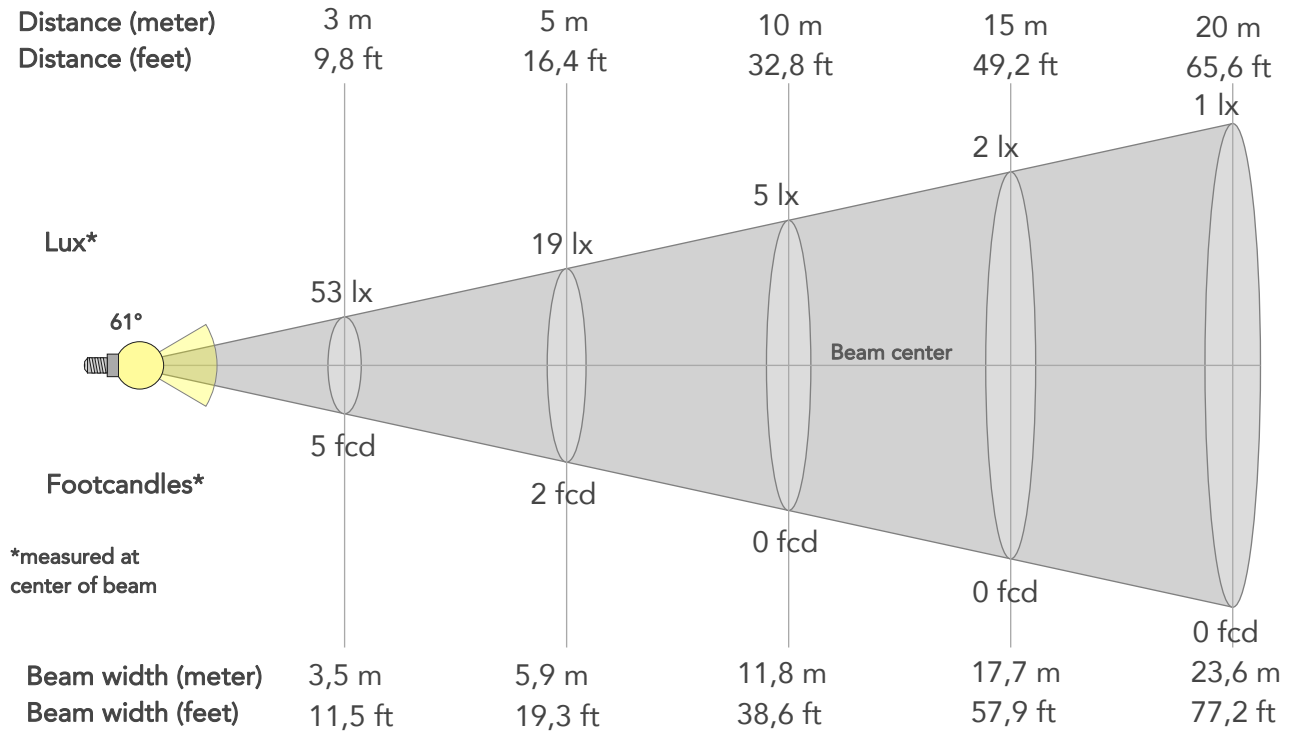
Cut off angle 2.5%: 138,6°

Spectra



BEAM DETAILS

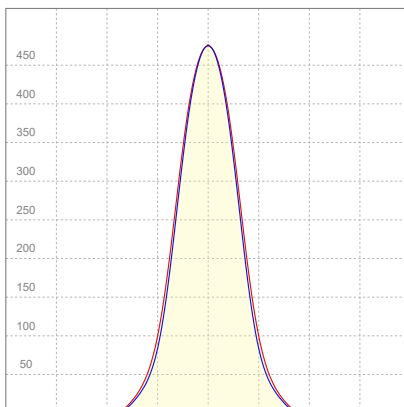
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
61°	107,4°	138,6°	95,5%	82,7%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	475lx	119lx	53lx	30lx	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.	1,2m	2,4m	3,5m	4,7m	5,9m	8,8m	11,8m	17,7m	23,6m	29,4m	35,3m	47,1m	58,9m
Beam wid.	3,9ft	7,8ft	11,5ft	15,4ft	19,3ft	29ft	38,6ft	57,9ft	77,2ft	96,6ft	115,9ft	154,5ft	193,1ft

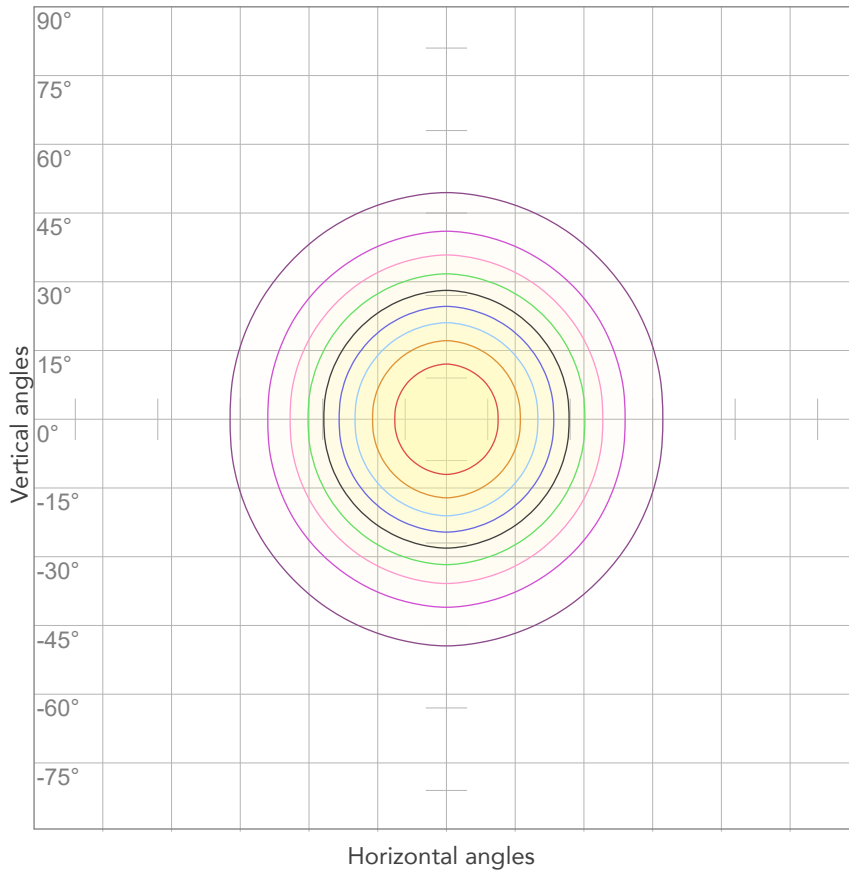
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,075A	11,1W	49lm/W
Power FC			
0,66			

ISO CANDELA DIAGRAM



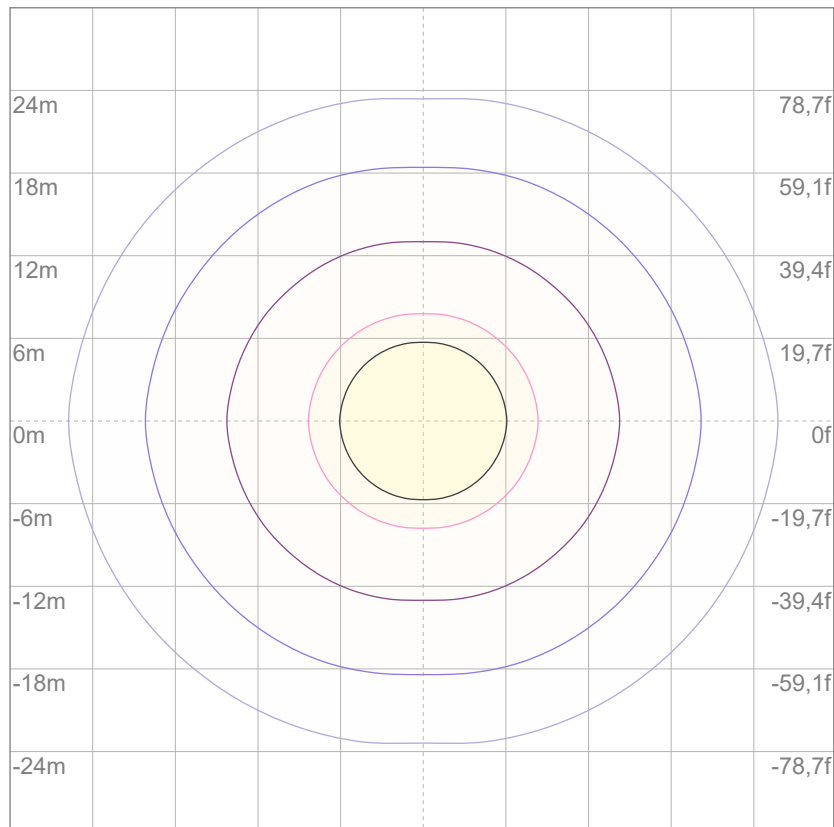
10%	48 cd
20%	95 cd
30%	143 cd
40%	190 cd
50%	238 cd
60%	285 cd
70%	333 cd
80%	380 cd

Conditions:

Number of c-planes: 4

Candela at center: 475 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,143 lx
5%	0,238 lx
10%	0,475 lx
30%	1,43 lx
50%	2,38 lx

Conditions:

Number of c-planes: 4

Lux at center: 4,75 lx

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

Total lumen output:

758 lm

Peak candela output:

1136 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 10°x60°

Target:

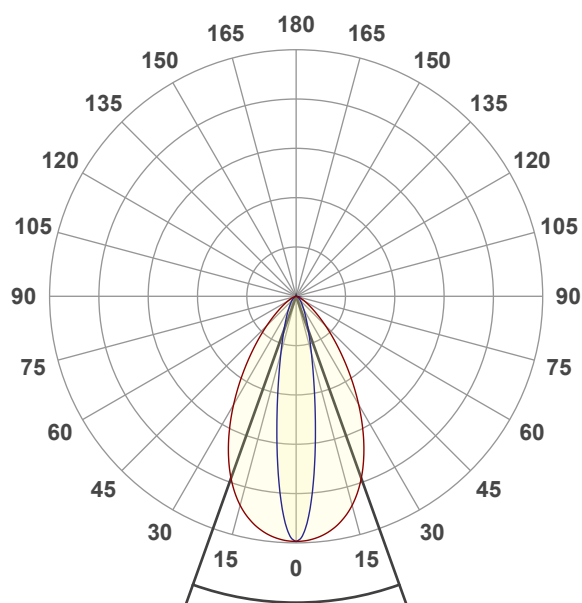
Green

Operator:

Paolo Carvone

Date and time:

08/07/2022 14:52:48

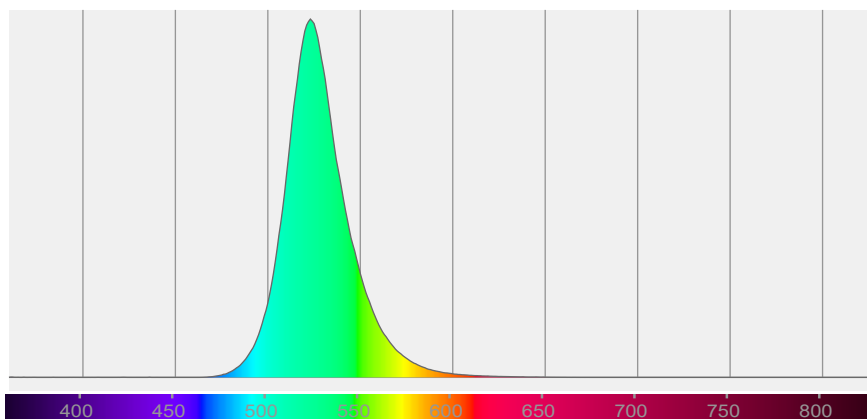


Beam angle 50%: 39,4°

Field angle 10%: 74,8°

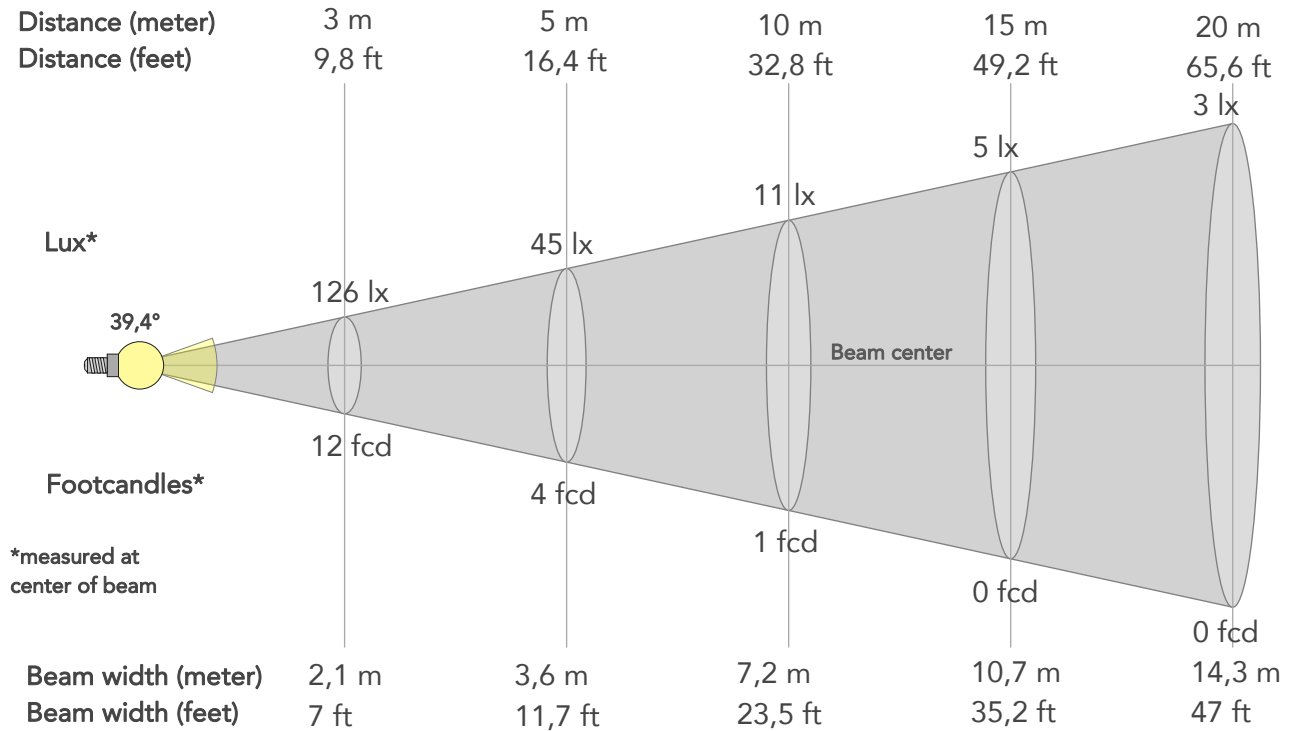
Cut off angle 2.5%: 109,2°

Spectra



BEAM DETAILS

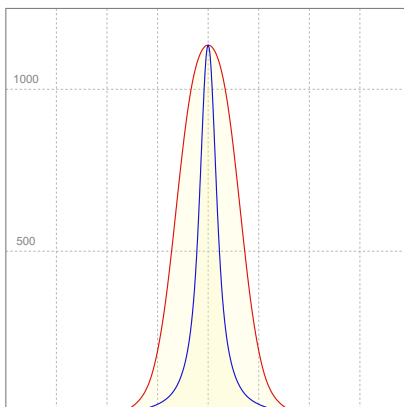
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,4°	74,8°	109,2°	97,2%	87,1%



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	1135lx	284lx	126lx	71lx	45lx	20lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	105fcd	26fcd	12fcd	7fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,9m	3,6m	5,4m	7,2m	10,7m	14,3m	17,9m	21,5m	28,6m	35,8m
Beam wid.	2,4ft	4,7ft	7ft	9,4ft	11,7ft	17,6ft	23,5ft	35,2ft	47ft	58,7ft	70,4ft	93,9ft	117,4ft

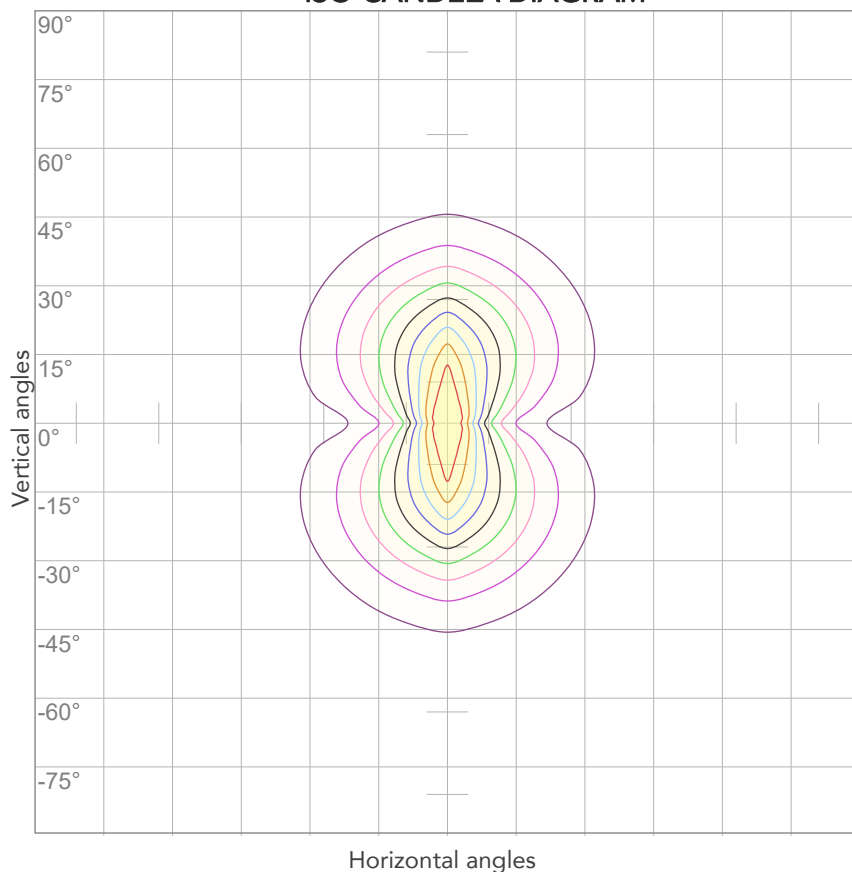
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,072A	10,7W	71lm/W
Power FC			
0,66			

ISO CANDELA DIAGRAM



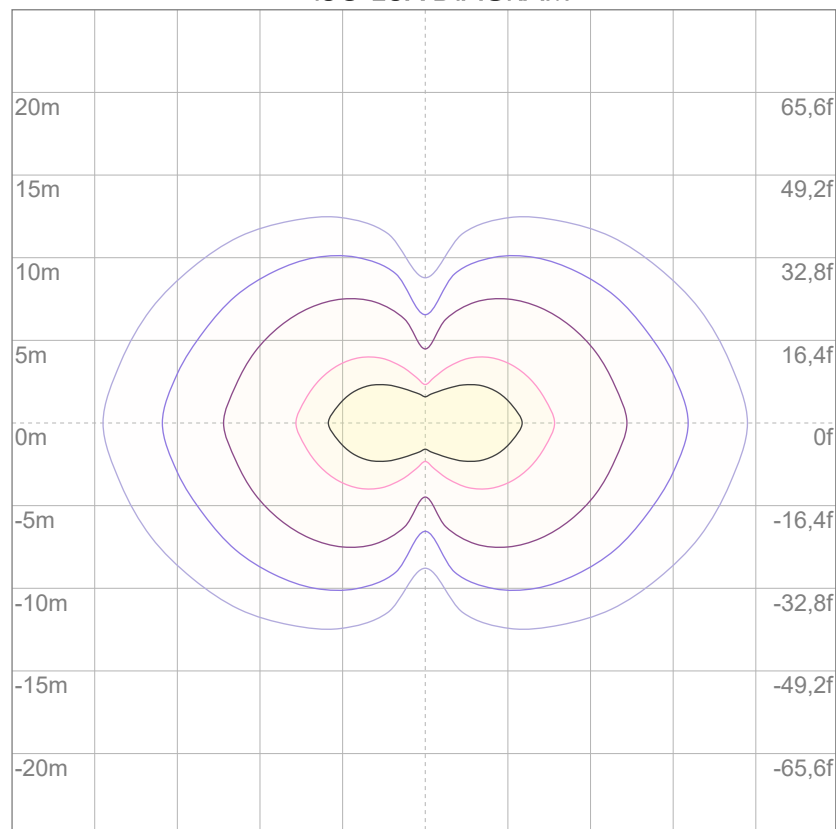
10%	114 cd
20%	227 cd
30%	341 cd
40%	454 cd
50%	568 cd
60%	681 cd
70%	795 cd
80%	908 cd

Conditions:

Number of c-planes: 4

Candela at center: 1135 cd

ISO LUX DIAGRAM



3%	0,341 lx
5%	0,568 lx
10%	1,14 lx
30%	3,41 lx
50%	5,68 lx

Conditions:

Number of c-planes: 4

Lux at center: 11,4 lx

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

Total lumen output:

597 lm

Peak candela output:

620 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 30°x60°

Target:

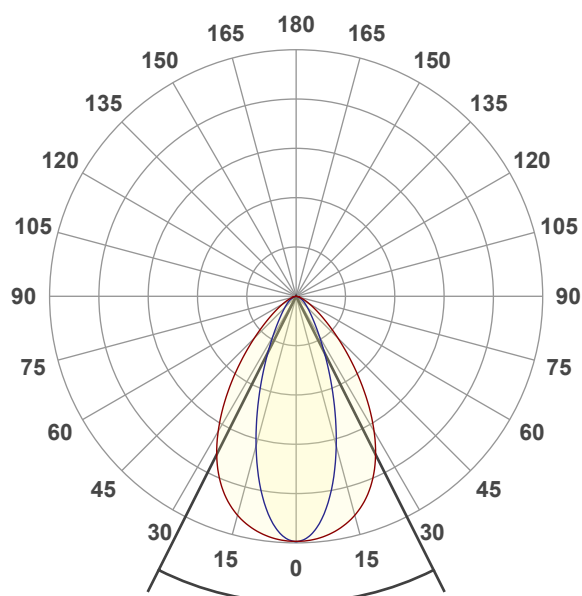
Green

Operator:

Paolo Carvone

Date and time:

08/07/2022 15:15:44

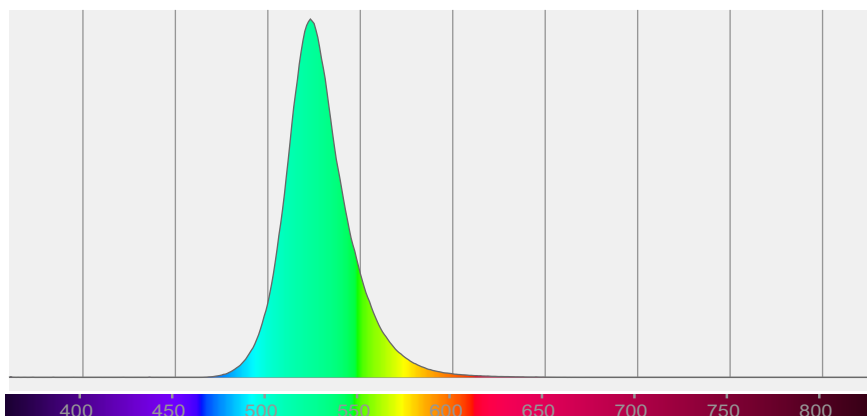


Beam angle 50%: 53,3°

Field angle 10%: 93,5°

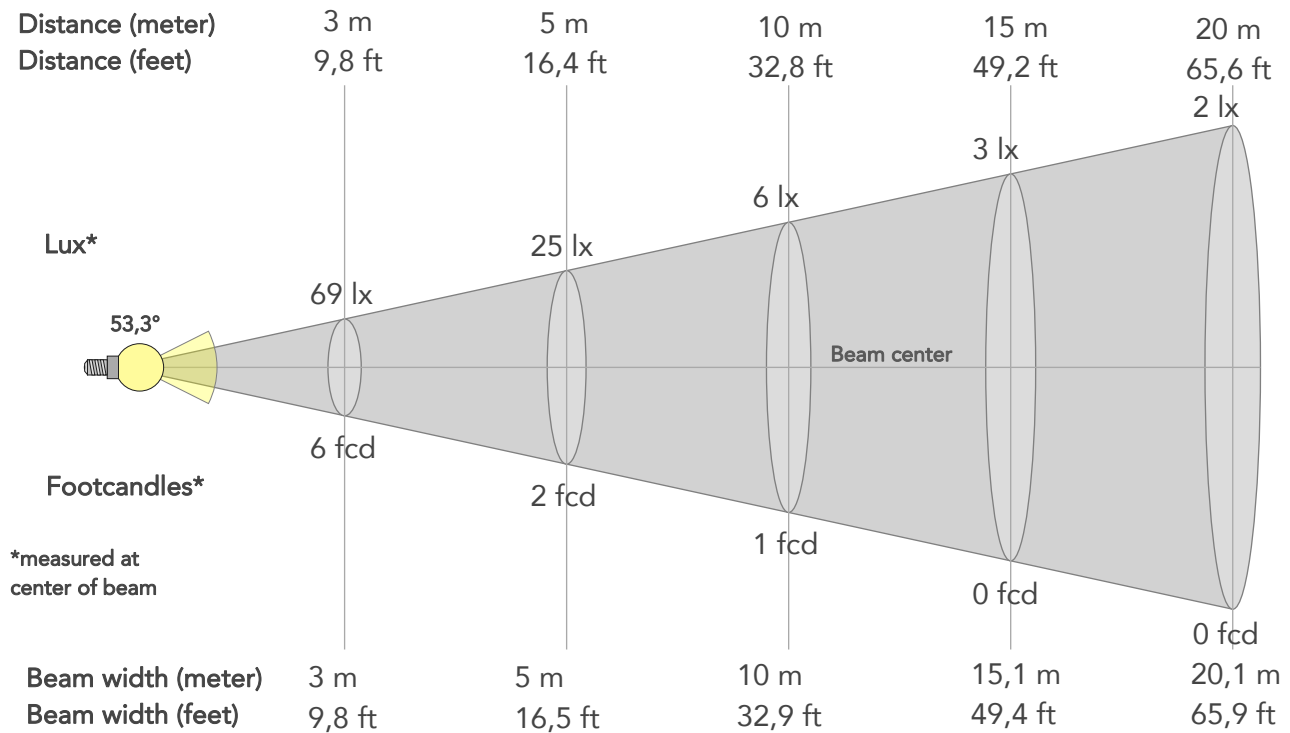
Cut off angle 2.5%: 130,3°

Spectra



BEAM DETAILS

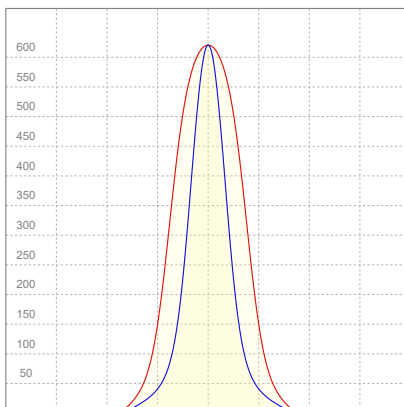
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,3°	93,5°	130,3°	96,1%	84,3%



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	620lx	155lx	69lx	39lx	25lx	11lx	6lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	58fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,5m	10m	15,1m	20,1m	25,1m	30,1m	40,2m	50,2m
Beam wid.	3,3ft	6,6ft	9,8ft	13,2ft	16,5ft	24,7ft	32,9ft	49,4ft	65,9ft	82,4ft	98,8ft	131,8ft	164,7ft

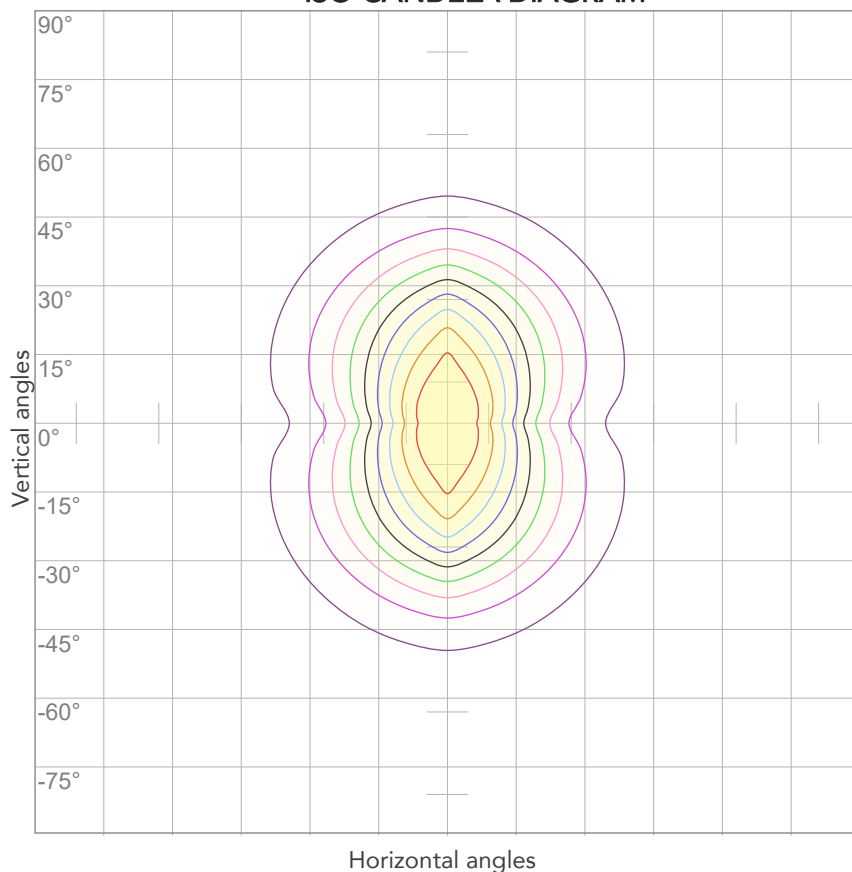
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,074A	10,9W	55lm/W
Power FC			
0,66			

ISO CANDELA DIAGRAM



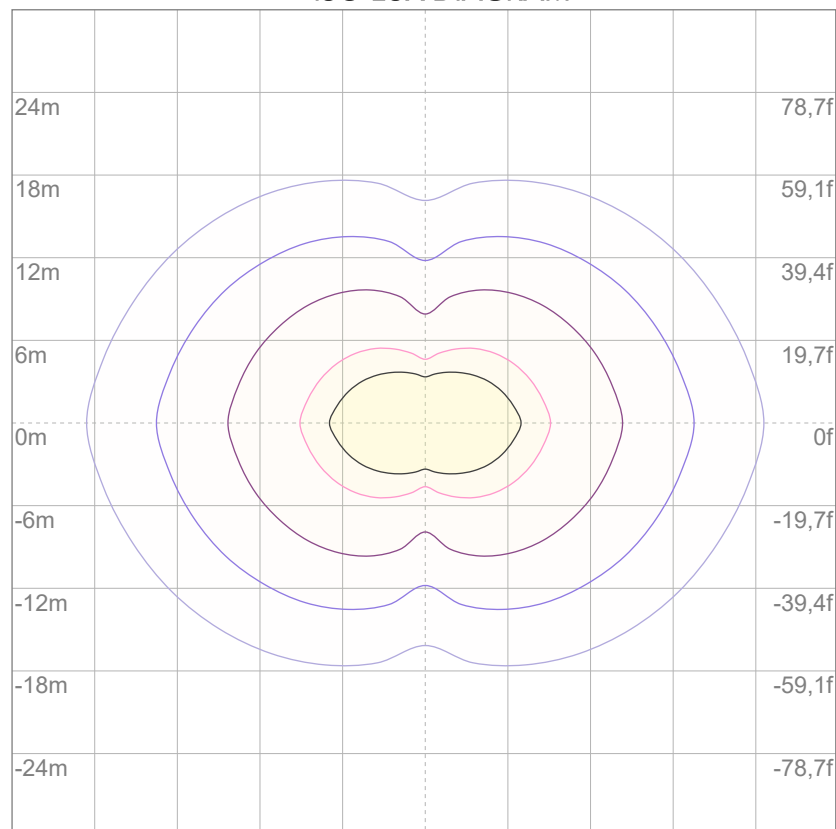
10%	62 cd
20%	124 cd
30%	186 cd
40%	248 cd
50%	310 cd
60%	372 cd
70%	434 cd
80%	496 cd

Conditions:

Number of c-planes: 4

Candela at center: 620 cd

ISO LUX DIAGRAM



3%	0,186 lx
5%	0,310 lx
10%	0,620 lx
30%	1,86 lx
50%	3,10 lx

Conditions:

Number of c-planes: 4

Lux at center: 6,20 lx

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

Total lumen output:

139 lm

Peak candela output:

2480 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°

Target:

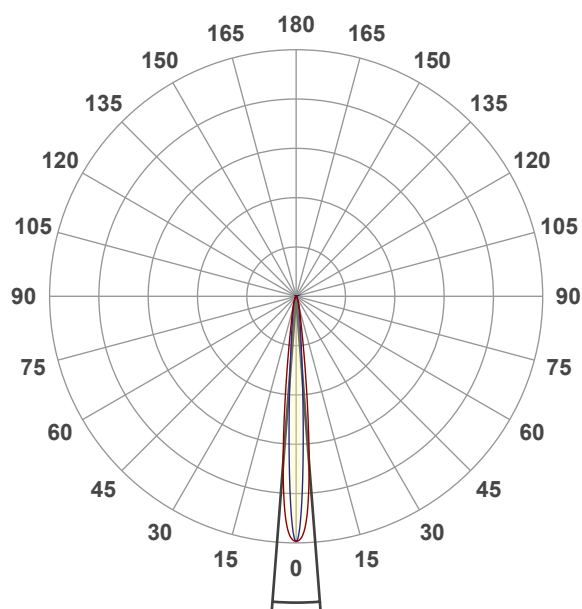
Blue

Operator:

Paolo Carvone

Date and time:

08/07/2022 12:28:03

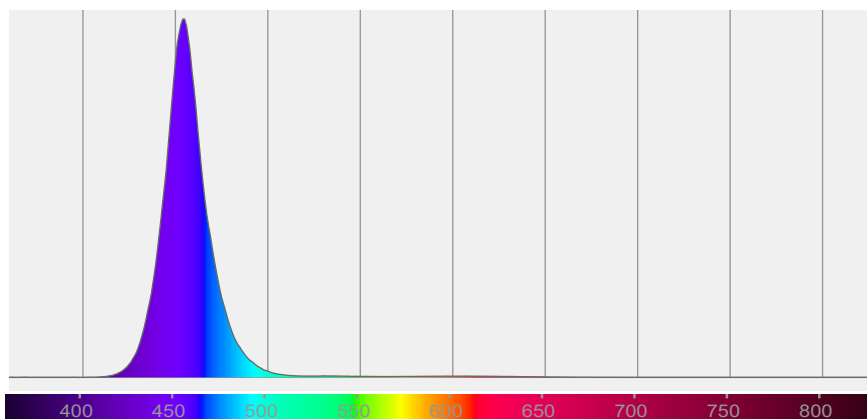


Beam angle 50%: 8,9°

Field angle 10%: 19,4°

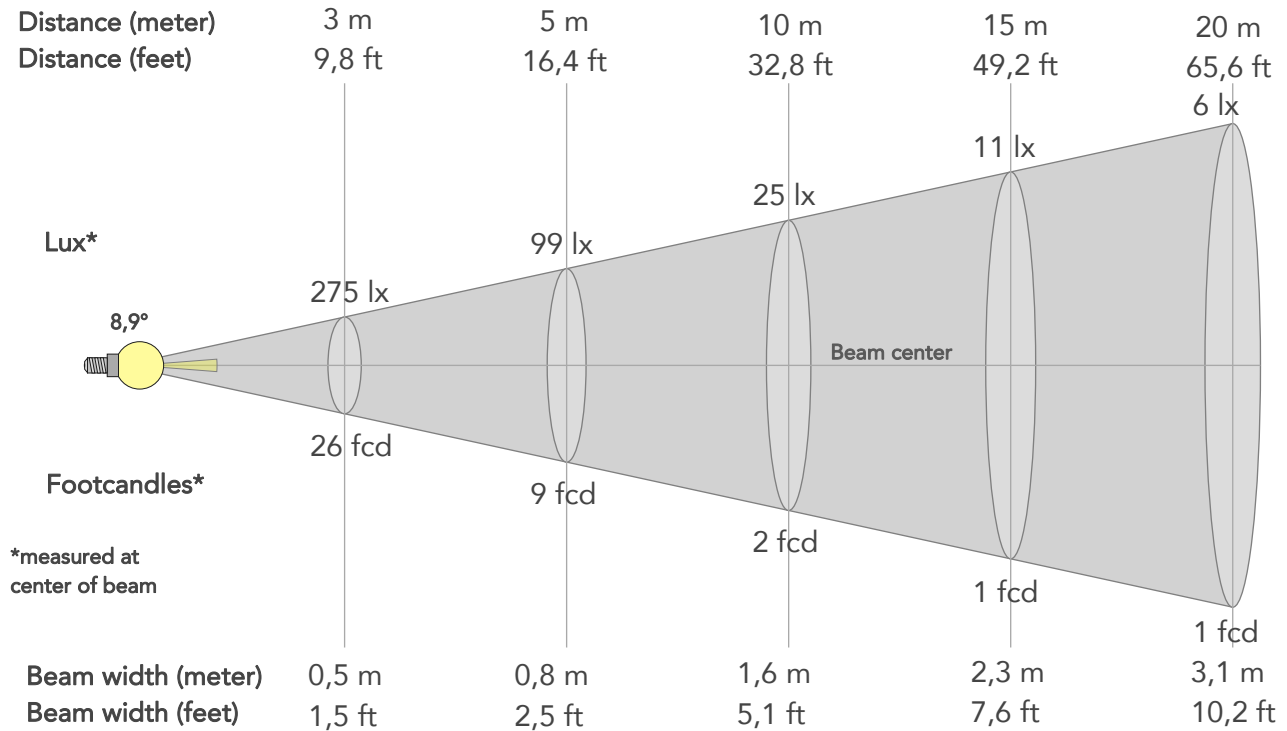
Cut off angle 2.5%: 39,7°

Spectra



BEAM DETAILS

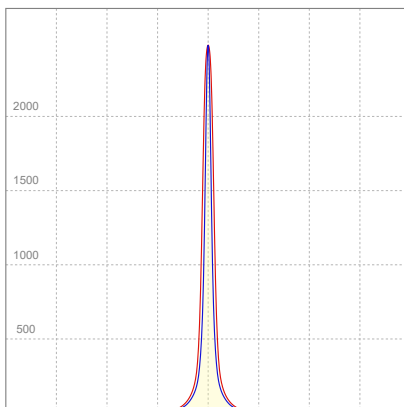
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
8,9°	19,4°	39,7°	99,6%	96,8%



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	2478lx	619lx	275lx	155lx	99lx	44lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	230fcd	58fcd	26fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,2m	0,3m	0,5m	0,6m	0,8m	1,2m	1,6m	2,3m	3,1m	3,9m	4,7m	6,2m	7,8m
Beam wid.	0,5ft	1ft	1,5ft	2ft	2,5ft	3,8ft	5,1ft	7,6ft	10,2ft	12,7ft	15,3ft	20,4ft	25,4ft

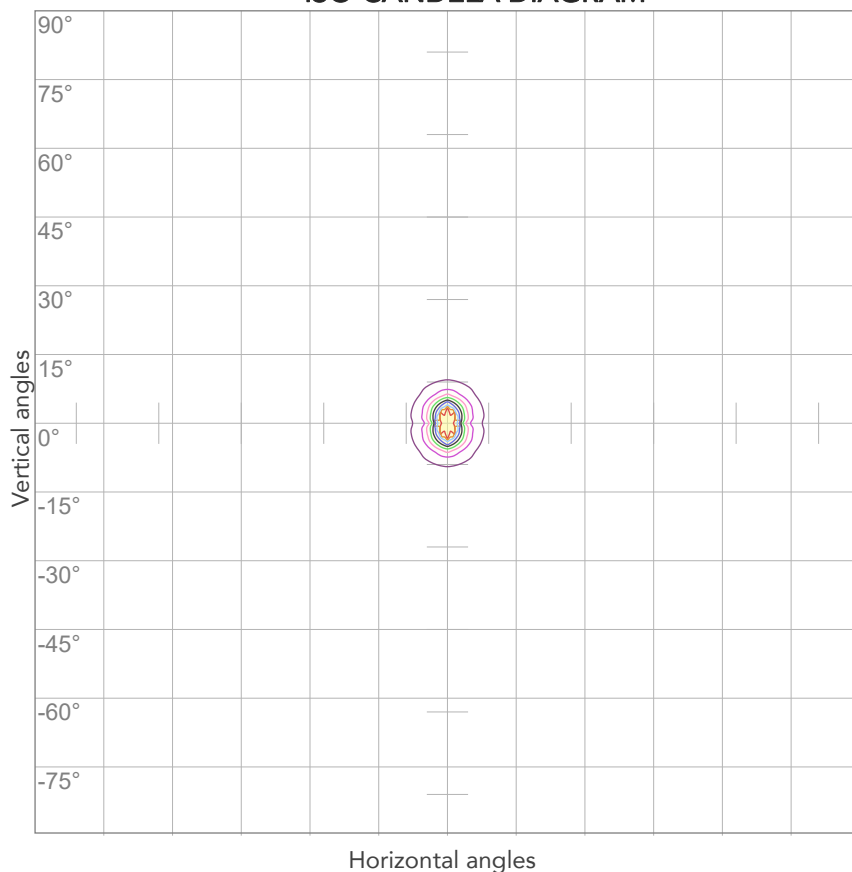
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,074A	11,3W	12lm/W
Power FC			
0,67			

ISO CANDELA DIAGRAM



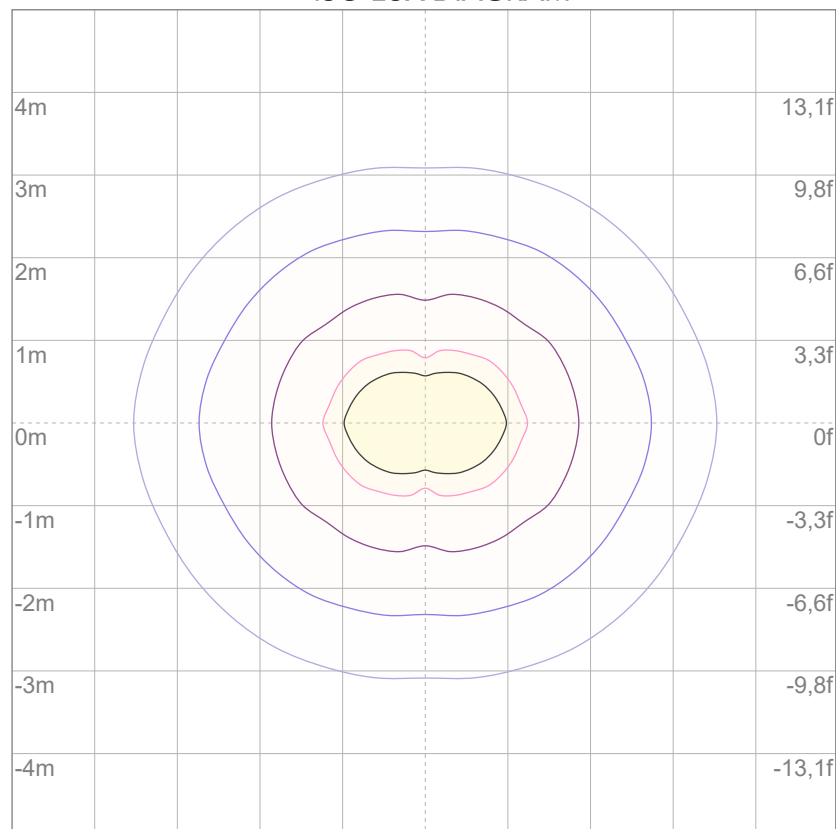
10%	248 cd
20%	496 cd
30%	743 cd
40%	991 cd
50%	1239 cd
60%	1487 cd
70%	1734 cd
80%	1982 cd

Conditions:

Number of c-planes: 4

Candela at center: 2478 cd

ISO LUX DIAGRAM



3%	0,743 lx
5%	1,24 lx
10%	2,48 lx
30%	7,43 lx
50%	12,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 24,8 lx

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

Total lumen output:

133 lm

Peak candela output:

425 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 20°

Target:

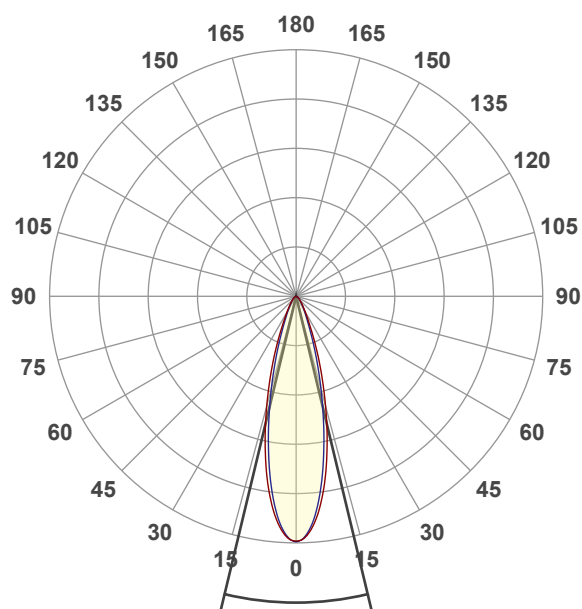
Blue

Operator:

Paolo Carvone

Date and time:

08/07/2022 13:02:49

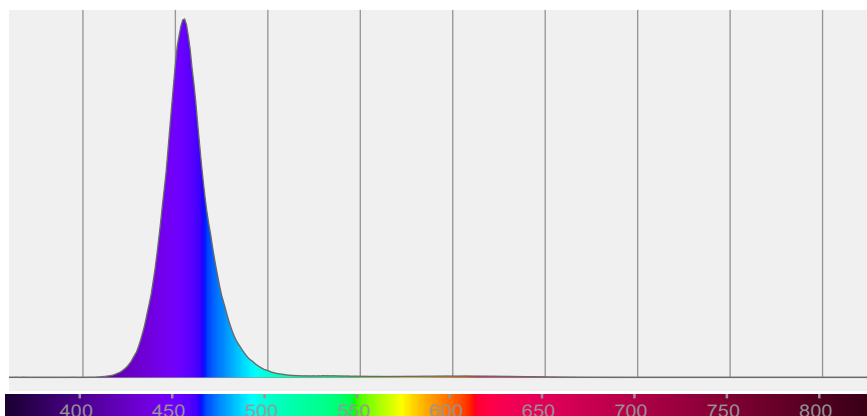


Beam angle 50%: 27°

Field angle 10%: 53°

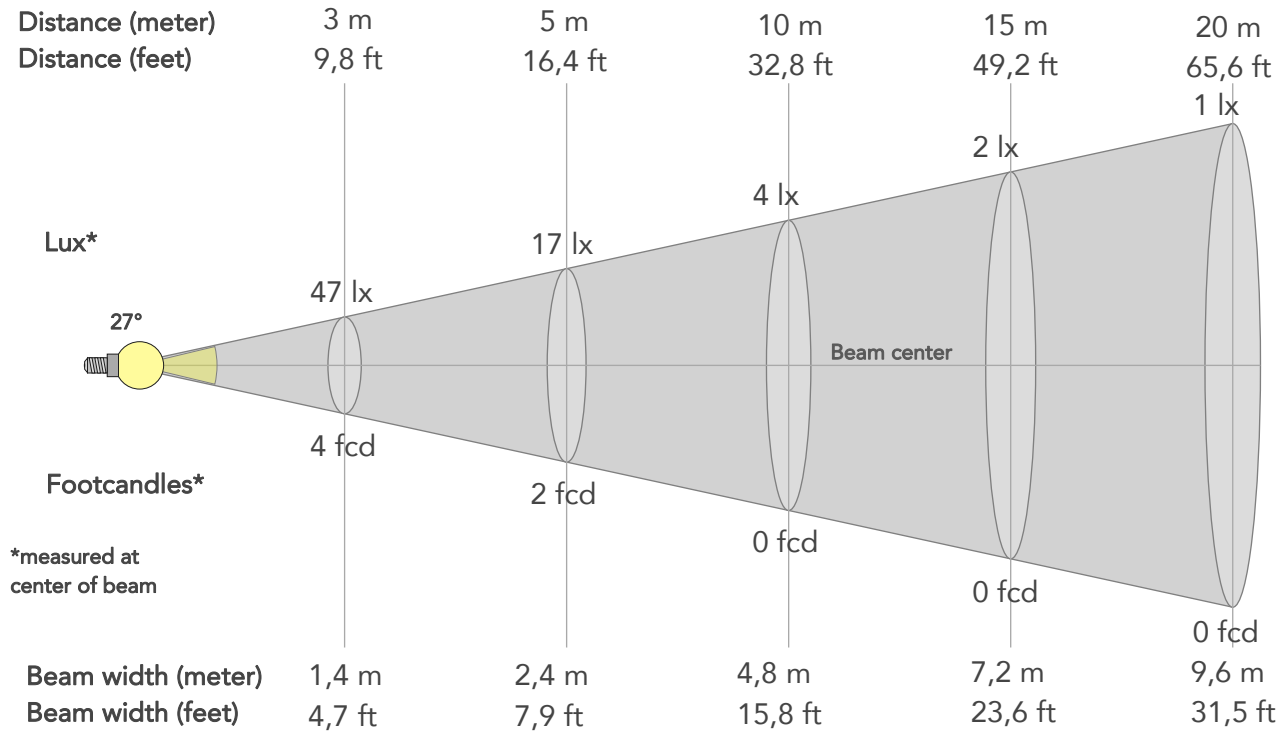
Cut off angle 2.5%: 84°

Spectra



BEAM DETAILS

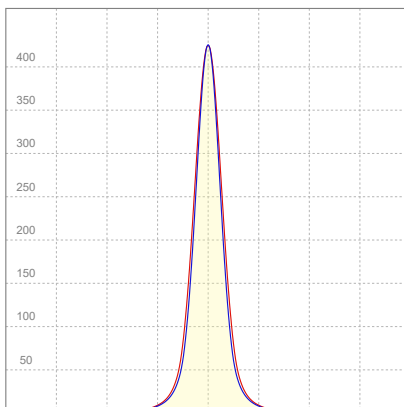
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27°	53°	84°	98,4%	93,2%



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	425lx	106lx	47lx	27lx	17lx	8lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	39fcd	10fcd	4fcd	2fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,6m	12m	14,4m	19,2m	24m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,8ft	15,8ft	23,6ft	31,5ft	39,4ft	47,3ft	63ft	78,8ft

LINEAR DISTRIBUTION DIAGRAM

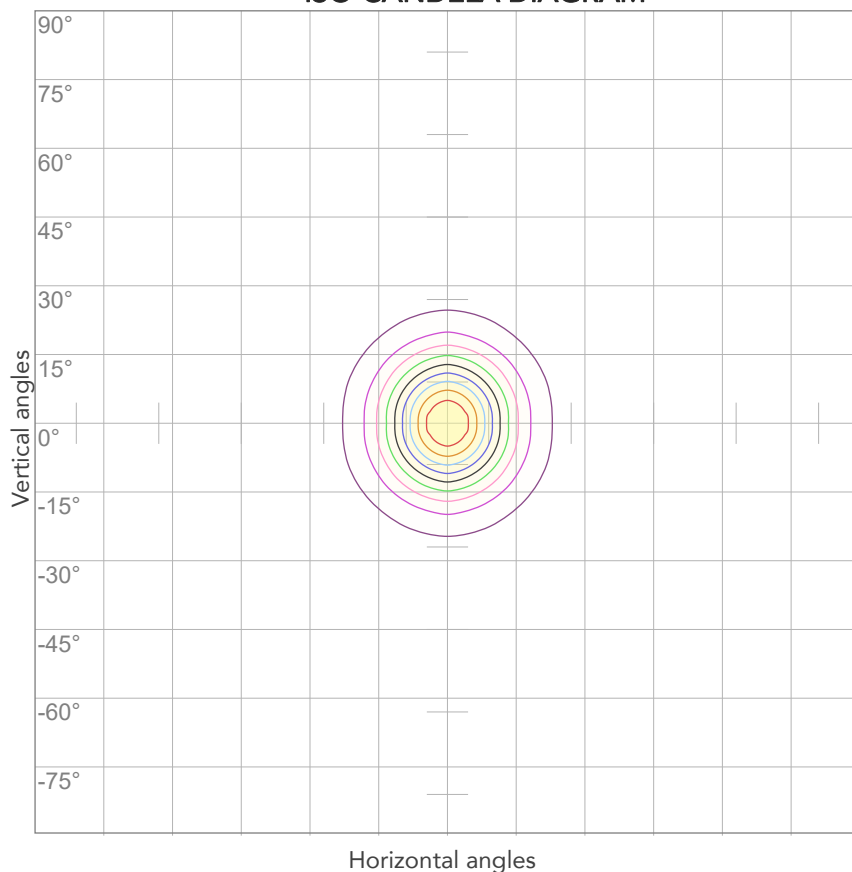


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,079A	12,5W	11lm/W

Power FC
0,71

ISO CANDELA DIAGRAM



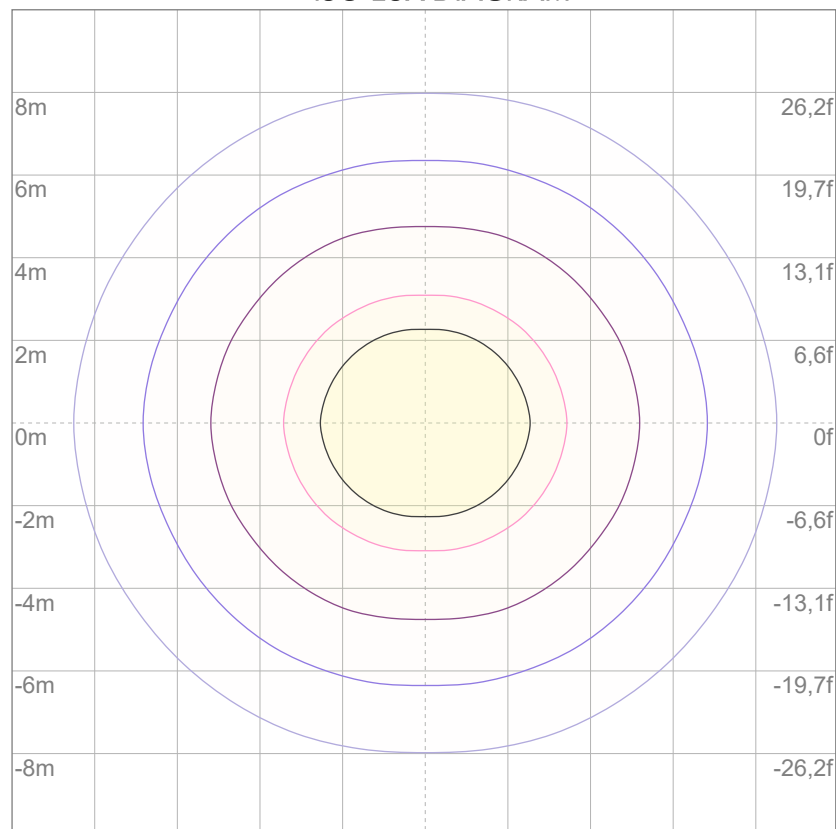
10%	42 cd
20%	85 cd
30%	127 cd
40%	170 cd
50%	212 cd
60%	255 cd
70%	297 cd
80%	340 cd

Conditions:

Number of c-planes: 4

Candela at center: 425 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,127 lx
5%	0,212 lx
10%	0,425 lx
30%	1,27 lx
50%	2,12 lx

Conditions:

Number of c-planes: 4

Lux at center: 4,25 lx

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

Total lumen output:

128 lm

Peak candela output:

161 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 40°

Target:

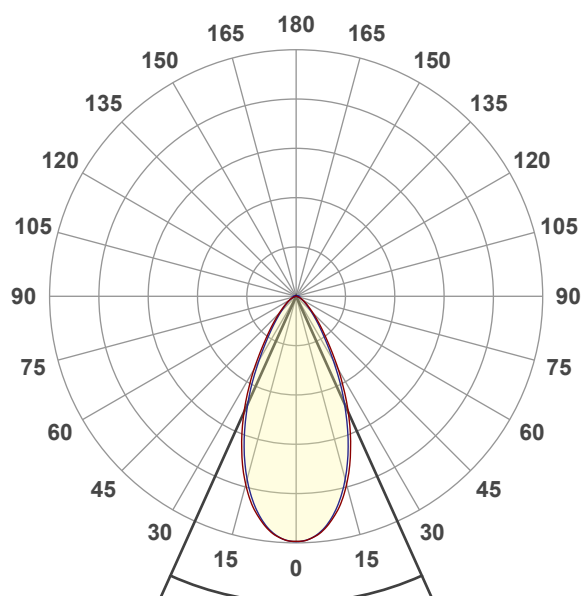
Blue

Operator:

Paolo Carvone

Date and time:

08/07/2022 13:23:08

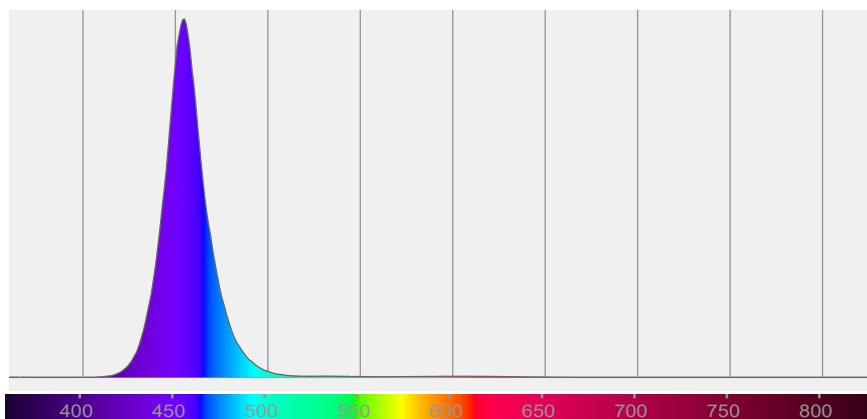


Beam angle 50%: 48,5°

Field angle 10%: 87,8°

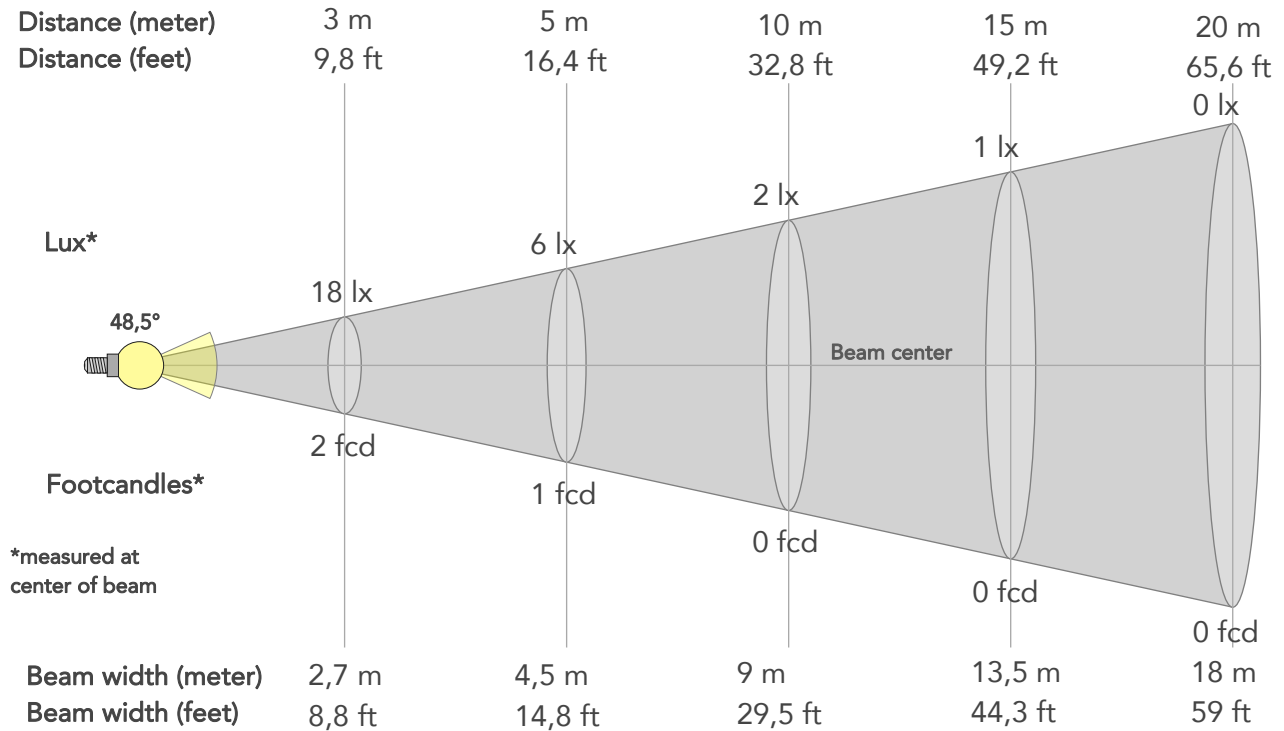
Cut off angle 2.5%: 124,6°

Spectra



BEAM DETAILS

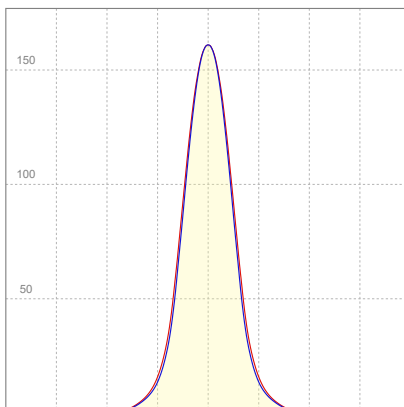
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,5°	87,8°	124,6°	96,7%	87,9%



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	161lx	40lx	18lx	10lx	6lx	3lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	15fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,7m	9m	13,5m	18m	22,5m	27m	36m	45m
Beam wid.	3ft	5,9ft	8,8ft	11,8ft	14,8ft	22,1ft	29,5ft	44,3ft	59ft	73,8ft	88,6ft	118,1ft	147,6ft

LINEAR DISTRIBUTION DIAGRAM

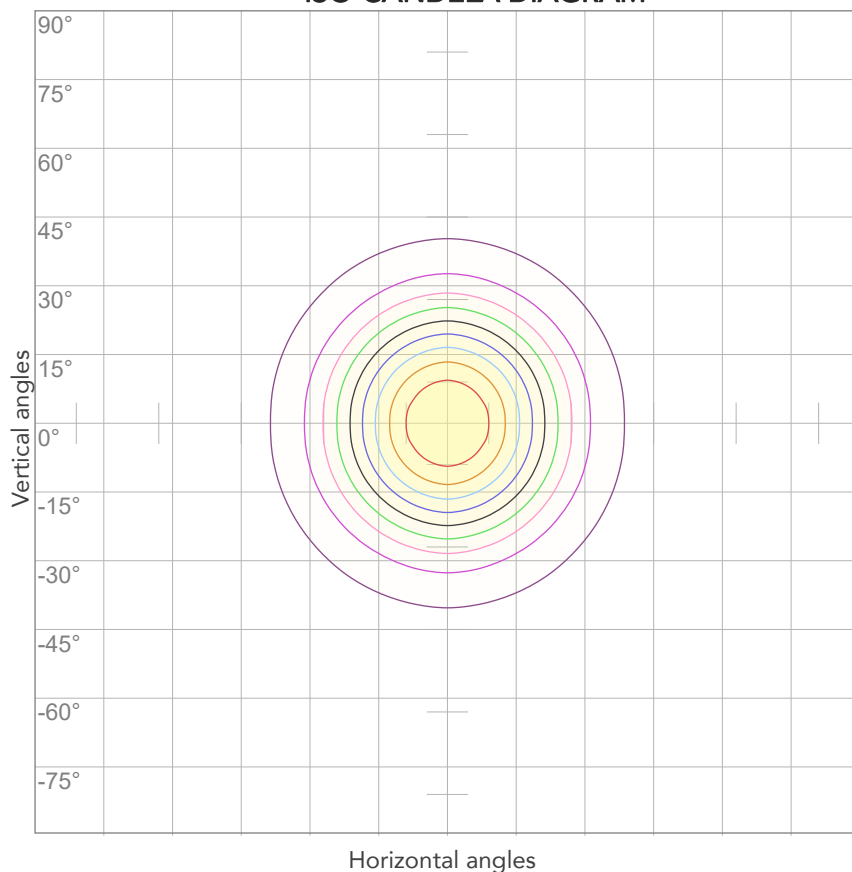


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,079A	12,5W	10lm/W

Power FC
0,71

ISO CANDELA DIAGRAM



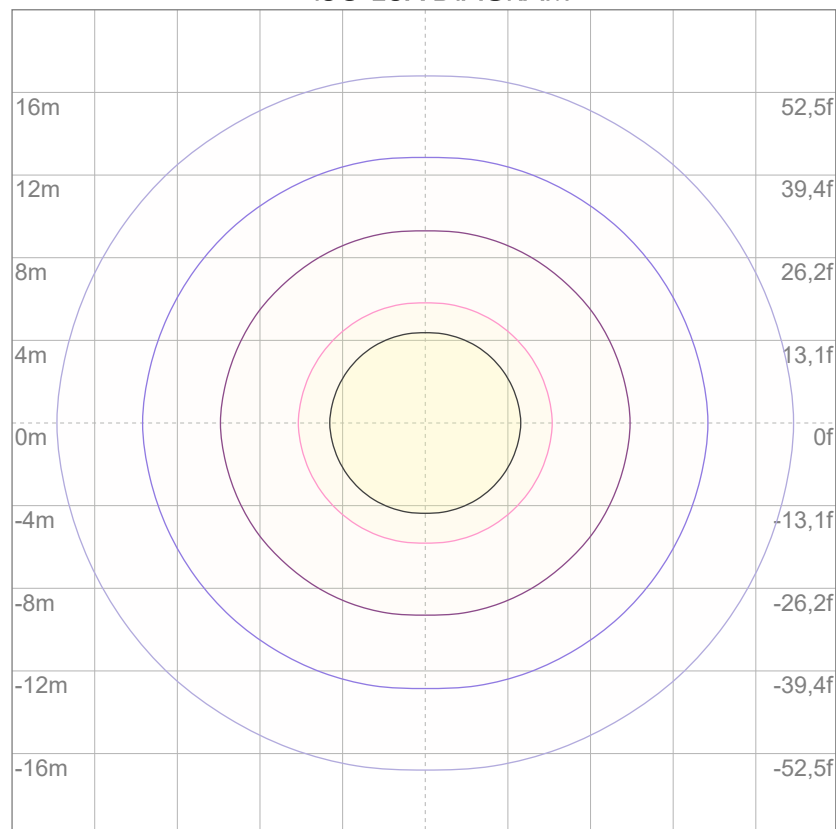
10%	16 cd
20%	32 cd
30%	48 cd
40%	64 cd
50%	80 cd
60%	96 cd
70%	113 cd
80%	129 cd

Conditions:

Number of c-planes: 4

Candela at center: 161 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	48,2m lx
5%	80,4m lx
10%	0,161 lx
30%	0,482 lx
50%	0,804 lx

Conditions:

Number of c-planes: 4

Lux at center: 1,61 lx

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

Total lumen output:

137 lm

Peak candela output:

126 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 60°

Target:

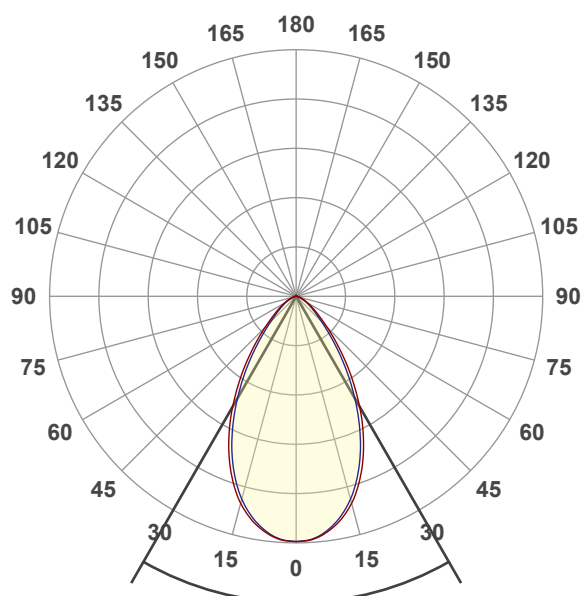
Blue

Operator:

Paolo Carvone

Date and time:

08/07/2022 14:18:00

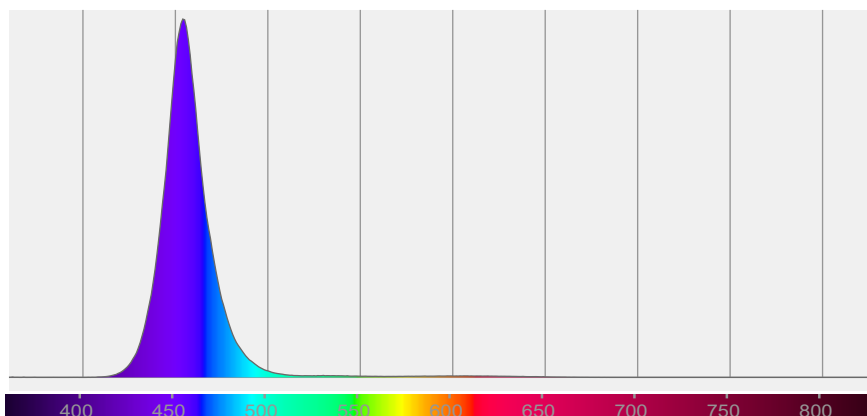


Beam angle 50%: 59,8°

Field angle 10%: 102,2°

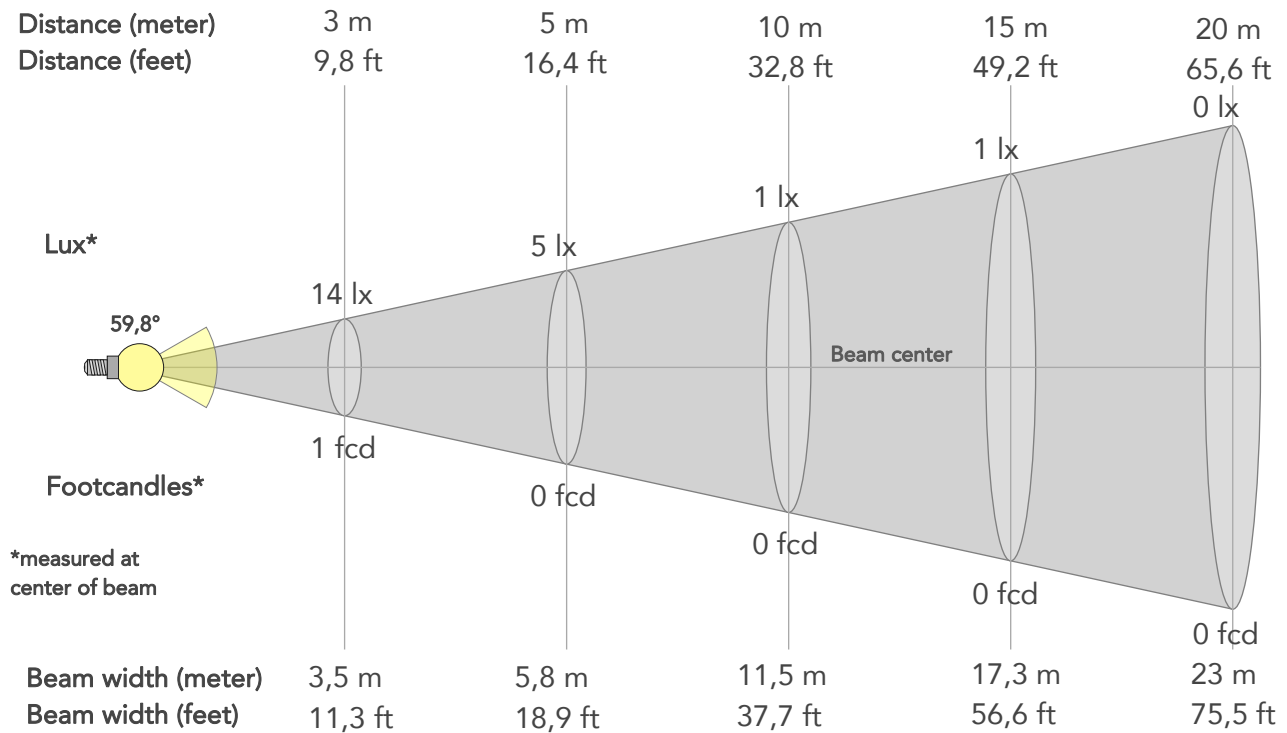
Cut off angle 2.5%: 135,9°

Spectra



BEAM DETAILS

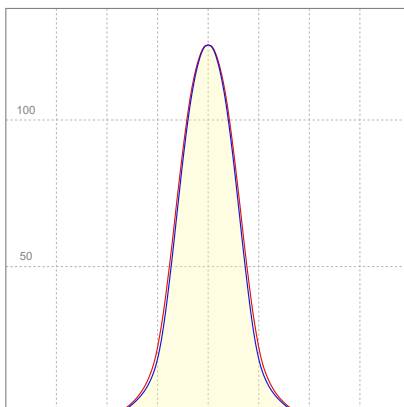
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,8°	102,2°	135,9°	95,9%	84,7%



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	126lx	31lx	14lx	8lx	5lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	12fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,6m	11,5m	17,3m	23m	28,8m	34,5m	46m	57,5m
Beam wid.	3,8ft	7,6ft	11,3ft	15,1ft	18,9ft	28,3ft	37,7ft	56,6ft	75,5ft	94,3ft	113,2ft	150,9ft	188,6ft

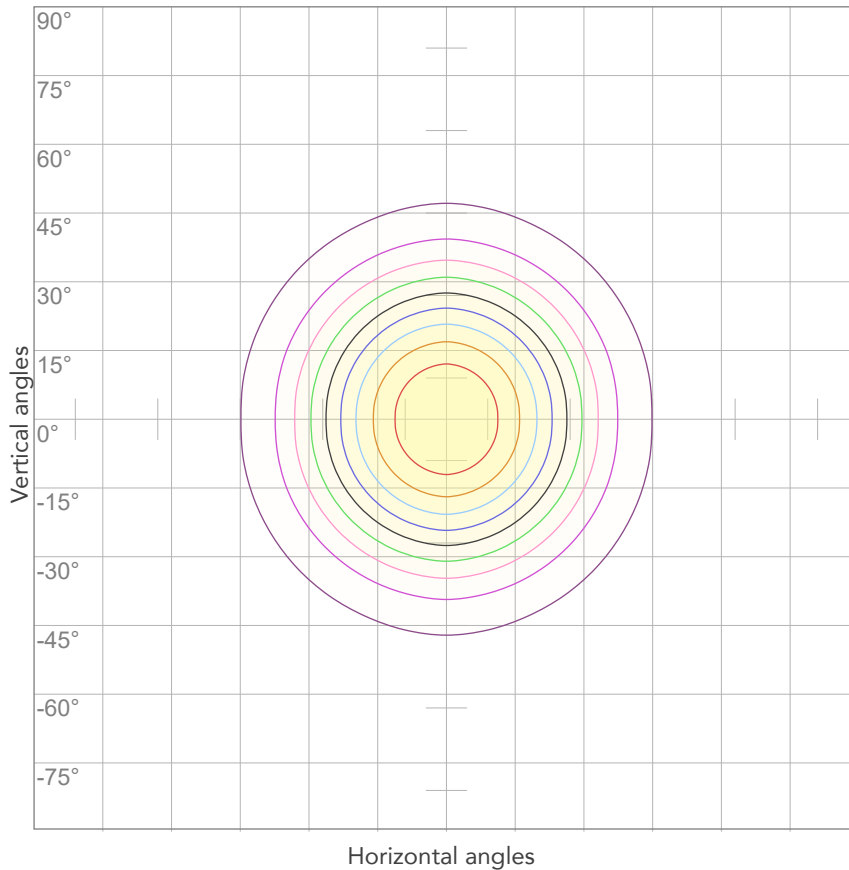
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,077A	12,2W	11lm/W
Power FC			
0,7			

ISO CANDELA DIAGRAM



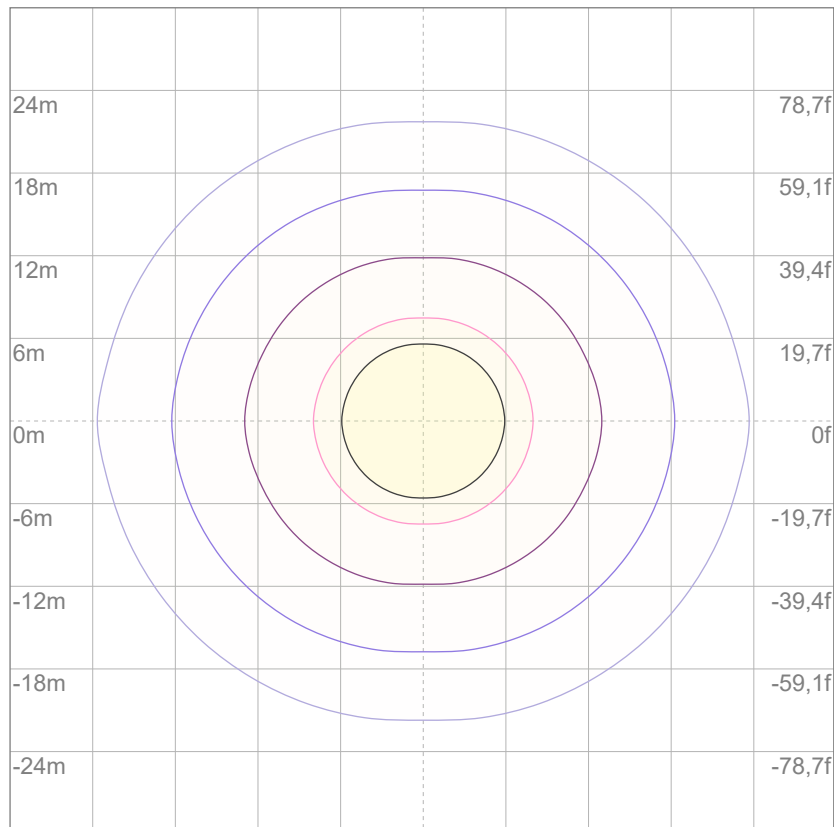
10%	13 cd
20%	25 cd
30%	38 cd
40%	50 cd
50%	63 cd
60%	75 cd
70%	88 cd
80%	100 cd

Conditions:

Number of c-planes: 4

Candela at center: 126 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	37,7m lx
5%	62,8m lx
10%	0,126 lx
30%	0,377 lx
50%	0,628 lx

Conditions:

Number of c-planes: 4

Lux at center: 1,26 lx

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

Total lumen output:

190 lm

Peak candela output:

304 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 10°x60°

Target:

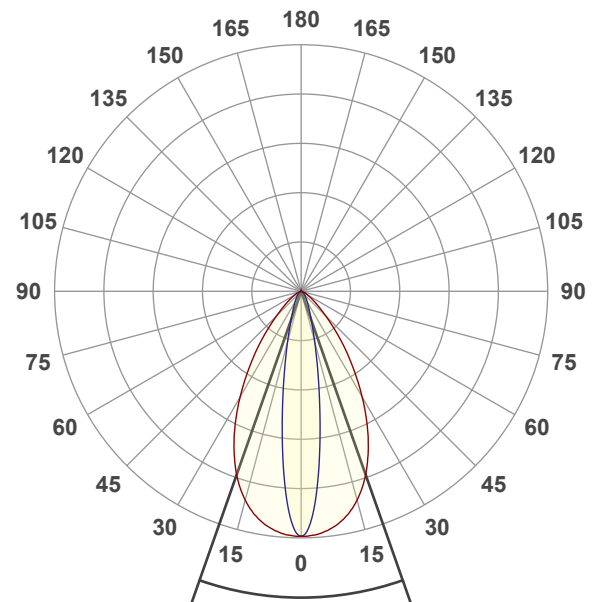
Blue

Operator:

Paolo Carvone

Date and time:

08/07/2022 14:56:11

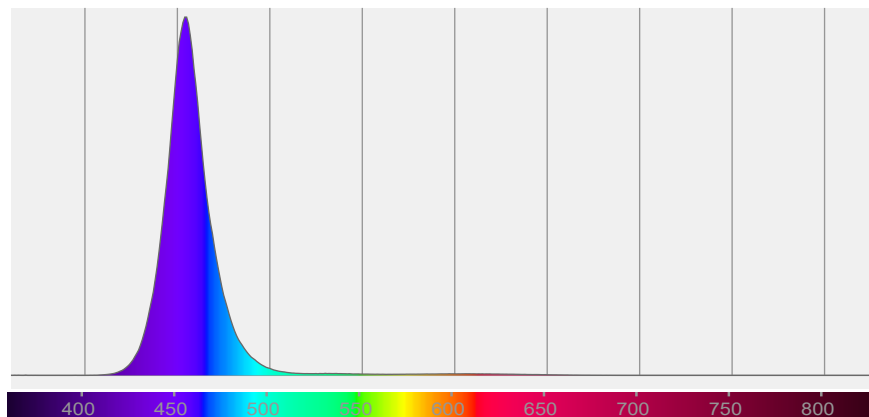


Beam angle 50%: 38,7°

Field angle 10%: 69,9°

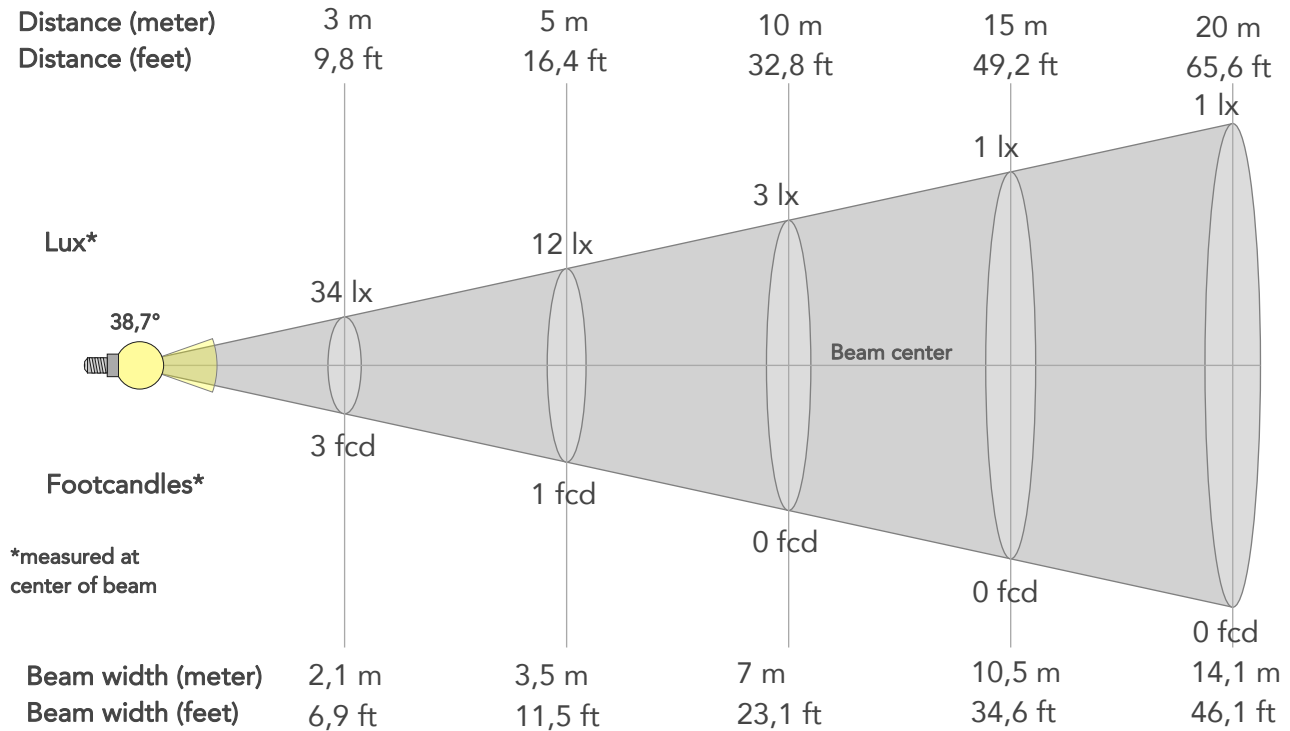
Cut off angle 2.5%: 103°

Spectra



BEAM DETAILS

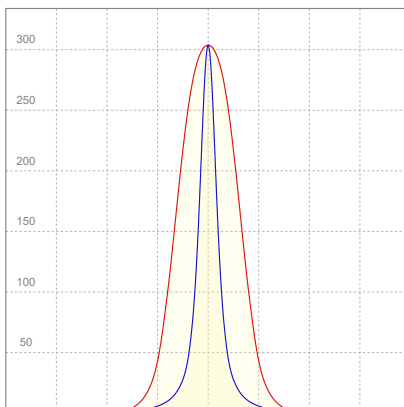
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38,7°	69,9°	103°	97,6%	88,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	303lx	76lx	34lx	19lx	12lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	28fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,3m	7m	10,5m	14,1m	17,6m	21,1m	28,1m	35,2m
Beam wid.	2,3ft	4,6ft	6,9ft	9,2ft	11,5ft	17,3ft	23,1ft	34,6ft	46,1ft	57,7ft	69,2ft	92,3ft	115,3ft

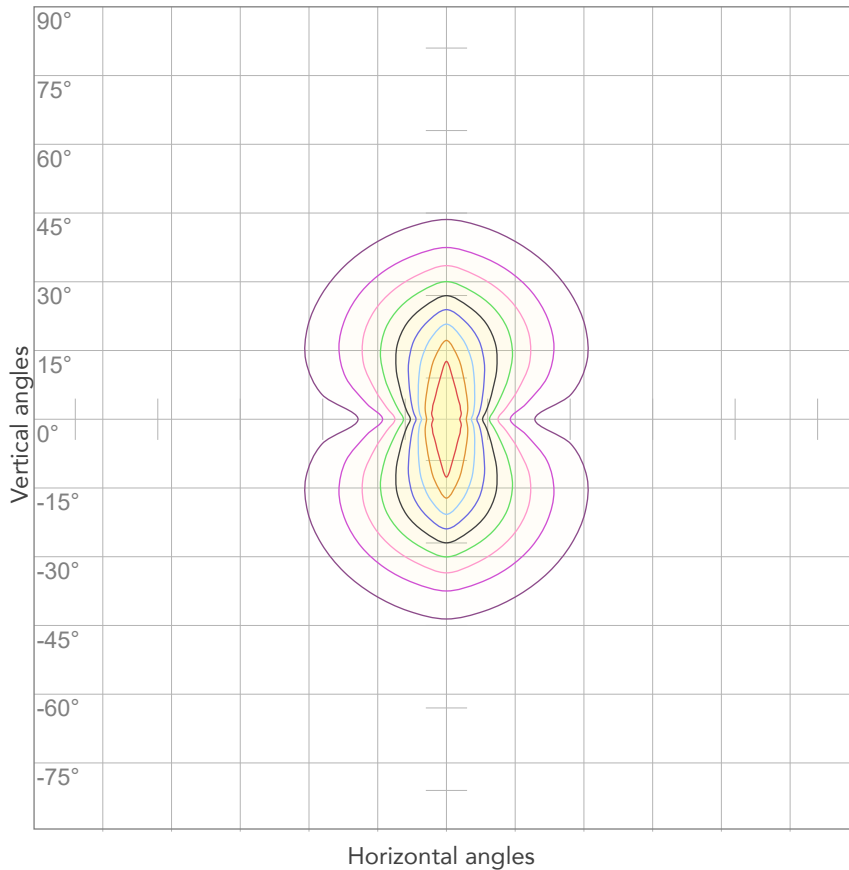
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,081A	12,1W	16lm/W
Power FC			
0,67			

ISO CANDELA DIAGRAM



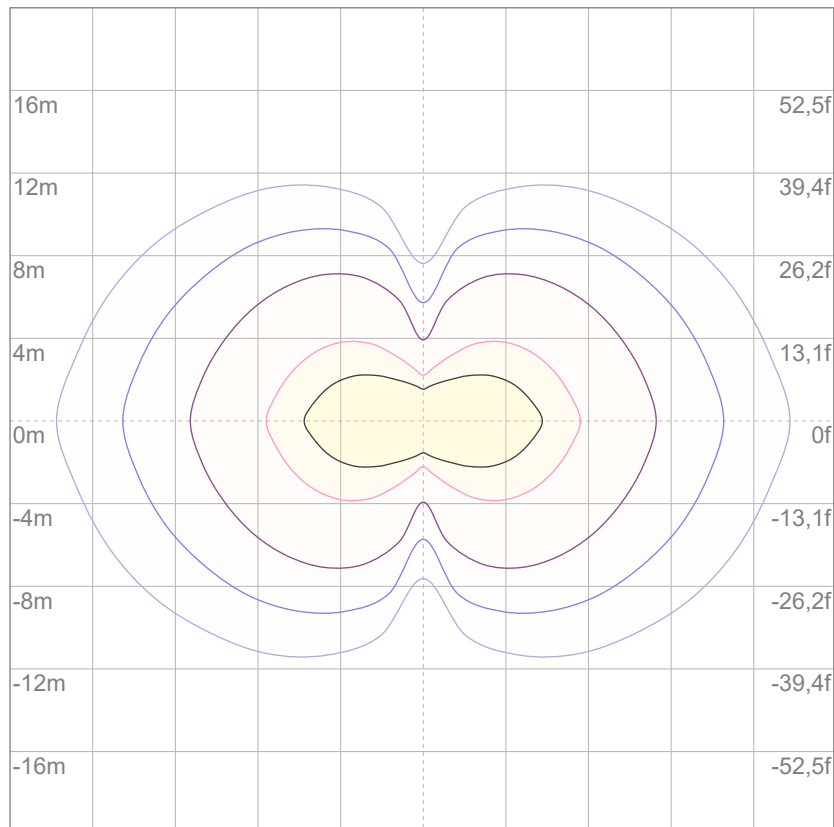
10%	30 cd
20%	61 cd
30%	91 cd
40%	121 cd
50%	152 cd
60%	182 cd
70%	212 cd
80%	243 cd

Conditions:

Number of c-planes: 4

Candela at center: 303 cd

ISO LUX DIAGRAM



3%	91,0m lx
5%	0,152 lx
10%	0,303 lx
30%	0,910 lx
50%	1,52 lx

Conditions:

Number of c-planes: 4

Lux at center: 3,03 lx

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

Total lumen output:

141 lm

Peak candela output:

159 cd



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 30°x60°

Target:

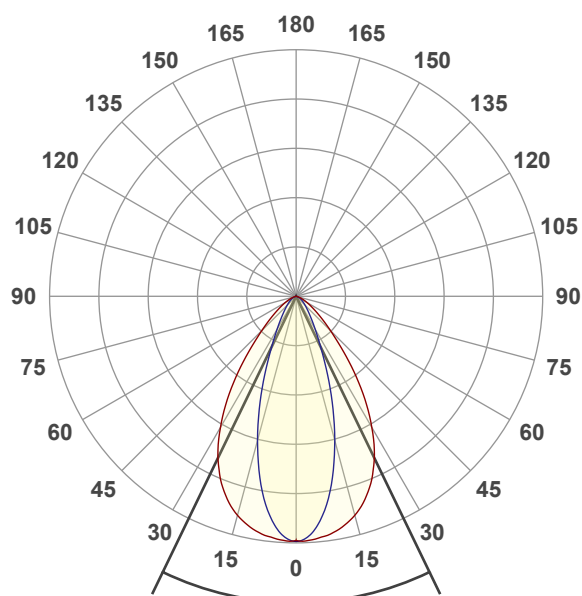
Blue

Operator:

Paolo Carvone

Date and time:

08/07/2022 15:20:31

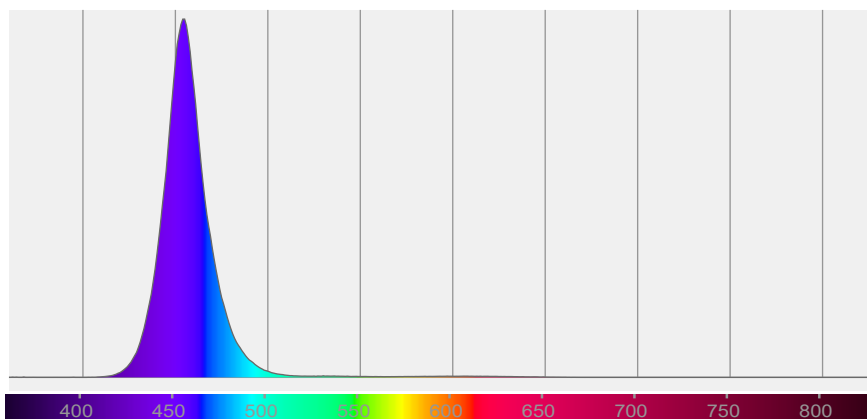


Beam angle 50%: 51,6°

Field angle 10%: 88,1°

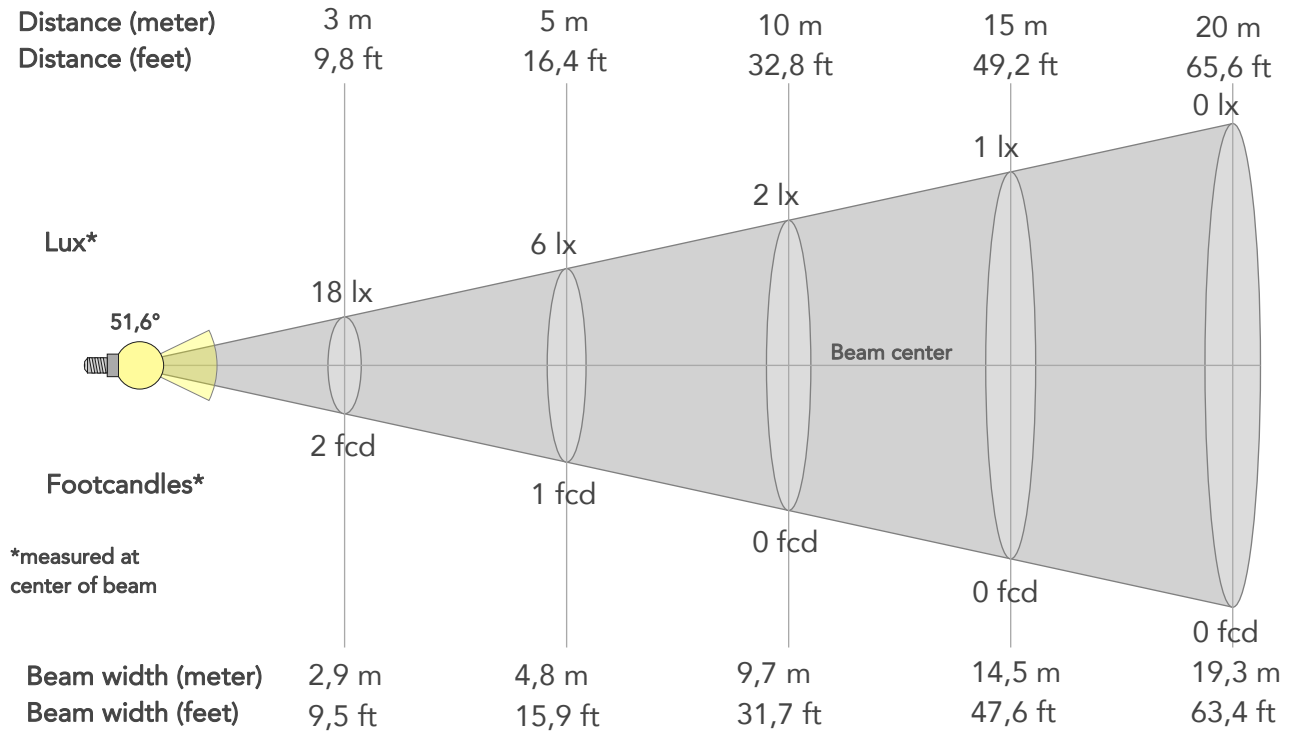
Cut off angle 2.5%: 124,2°

Spectra



BEAM DETAILS

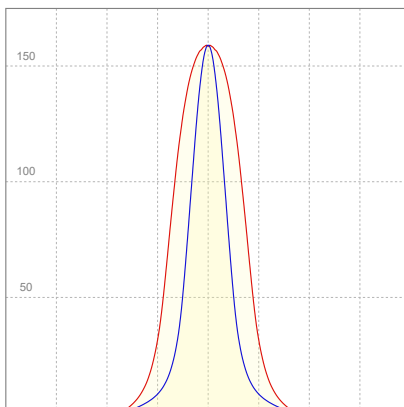
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,6°	88,1°	124,2°	96,8%	86,4%



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	159lx	40lx	18lx	10lx	6lx	3lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	15fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	1,9m	2,9m	3,9m	4,8m	7,3m	9,7m	14,5m	19,3m	24,2m	29m	38,7m	48,4m
Beam wid.	3,2ft	6,4ft	9,5ft	12,7ft	15,9ft	23,8ft	31,7ft	47,6ft	63,4ft	79,3ft	95,2ft	126,9ft	158,6ft

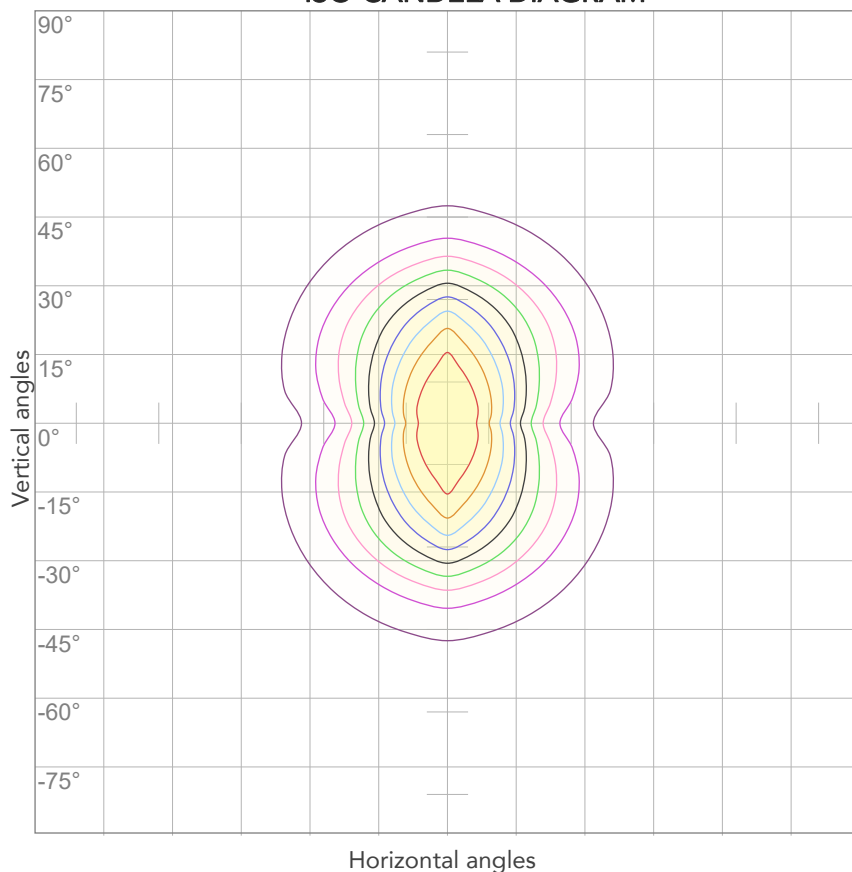
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,076A	11,5W	12lm/W
Power FC			
0,67			

ISO CANDELA DIAGRAM



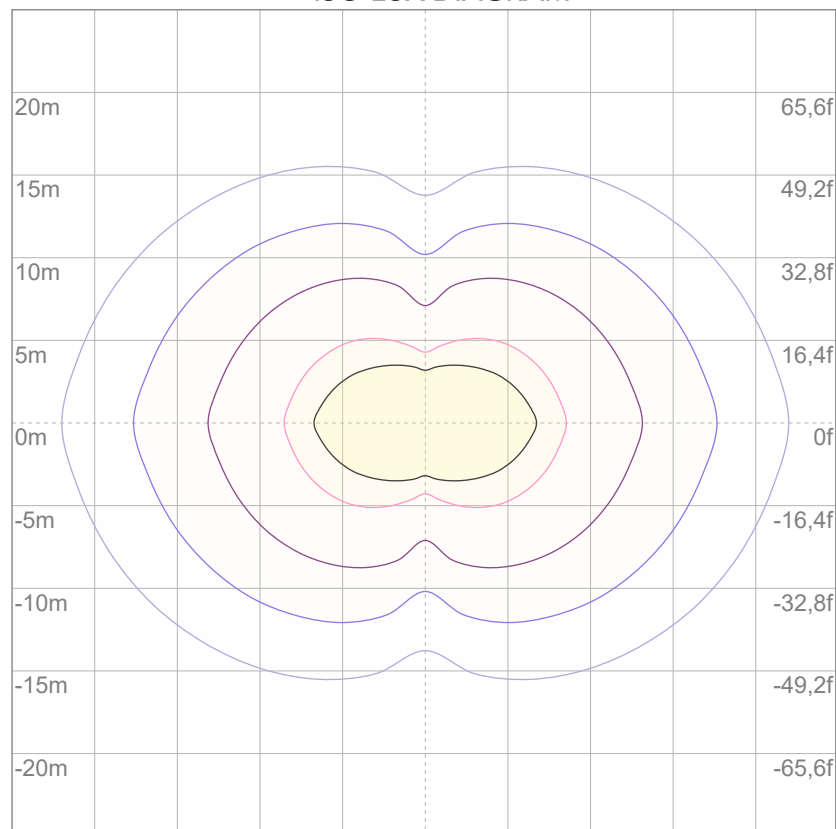
10%	16 cd
20%	32 cd
30%	48 cd
40%	63 cd
50%	79 cd
60%	95 cd
70%	111 cd
80%	127 cd

Conditions:

Number of c-planes: 4

Candela at center: 159 cd

ISO LUX DIAGRAM



3%	47,6m lx
5%	79,3m lx
10%	0,159 lx
30%	0,476 lx
50%	0,793 lx

Conditions:

Number of c-planes: 4

Lux at center: 1,59 lx

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

Total lumen output:

468 lm

Peak candela output:

7931 cd

Light quality:

CRI: 84,6

Color temperature:

3039 K



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°

Target:

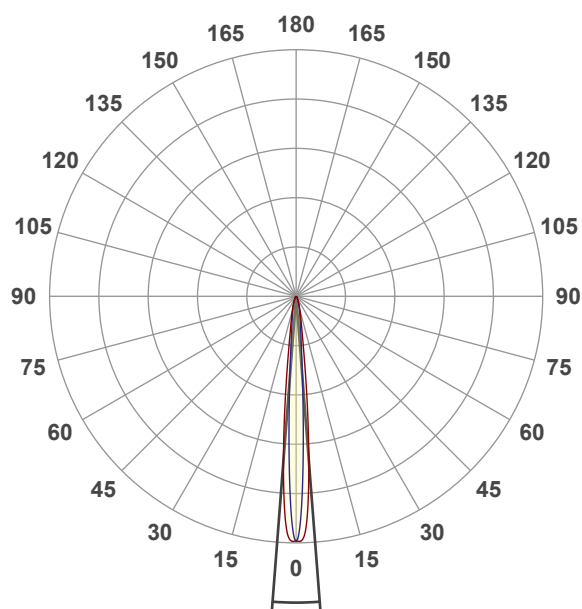
White

Operator:

Paolo Carvone

Date and time:

08/07/2022 12:33:10

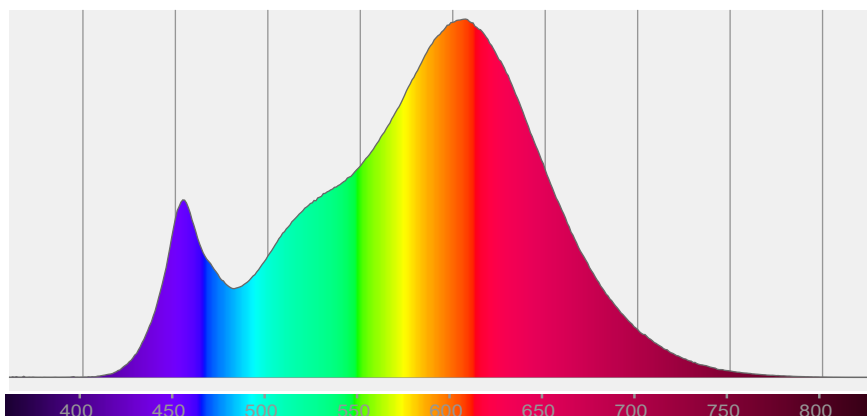


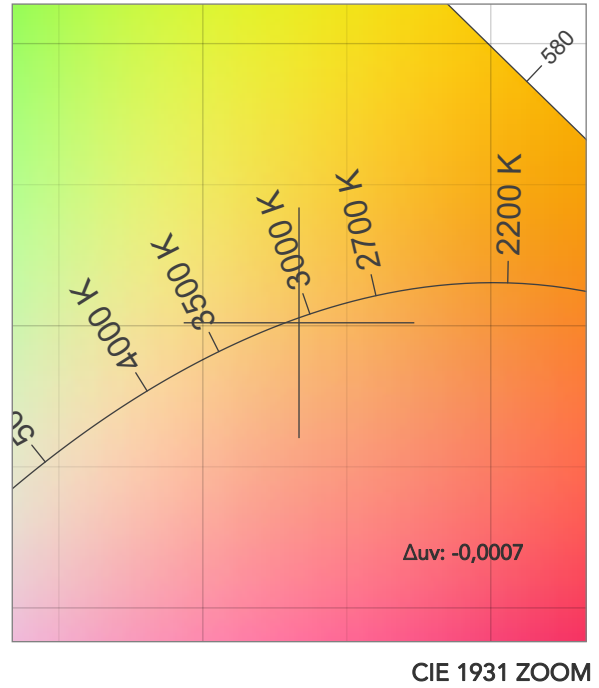
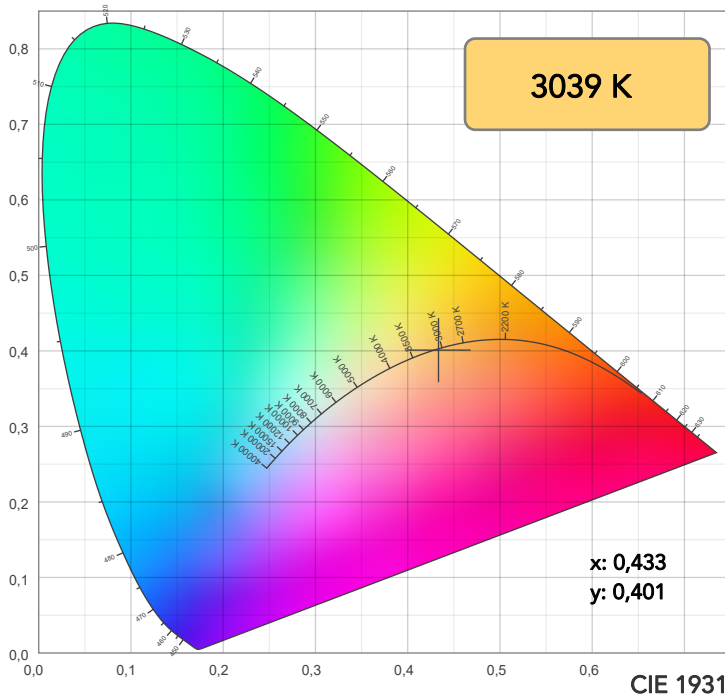
Beam angle 50%: 8,8°

Field angle 10%: 21°

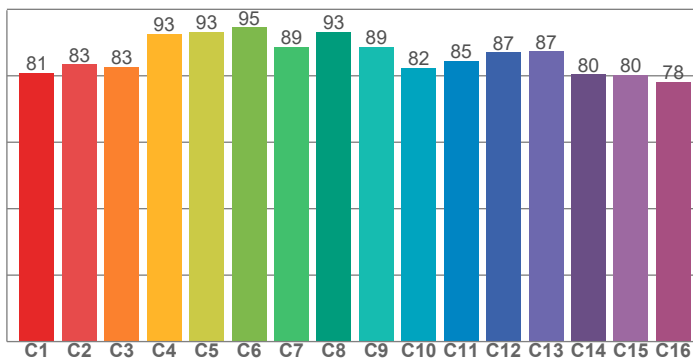
Cut off angle 2.5%: 42,4°

Spectra

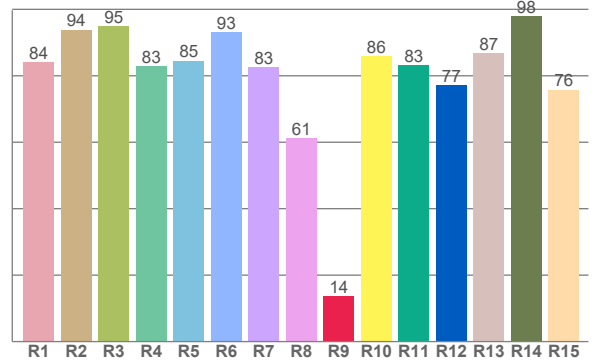




TM30: 86,3



CRI: 84,6 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,1	93,9	94,8	82,9	84,5	93,1	82,6	61,2	13,7	86,0	83,2	77,1	86,8	98,0	75,8

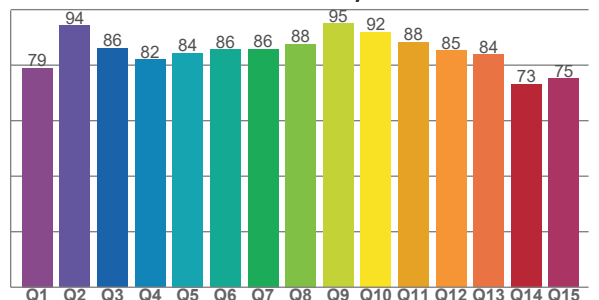
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,9	83,4	82,7	92,6	93,2	94,6	88,7	93,2	88,8	82,4	84,5	87,0	87,3	80,5	80,3	78,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,9	94,2	86,1	82,1	84,4	85,6	85,8	87,7	94,9	91,9	88,4	85,3	83,8	73,2	75,1

CQS: 83,9



COLOR PARAMETERS

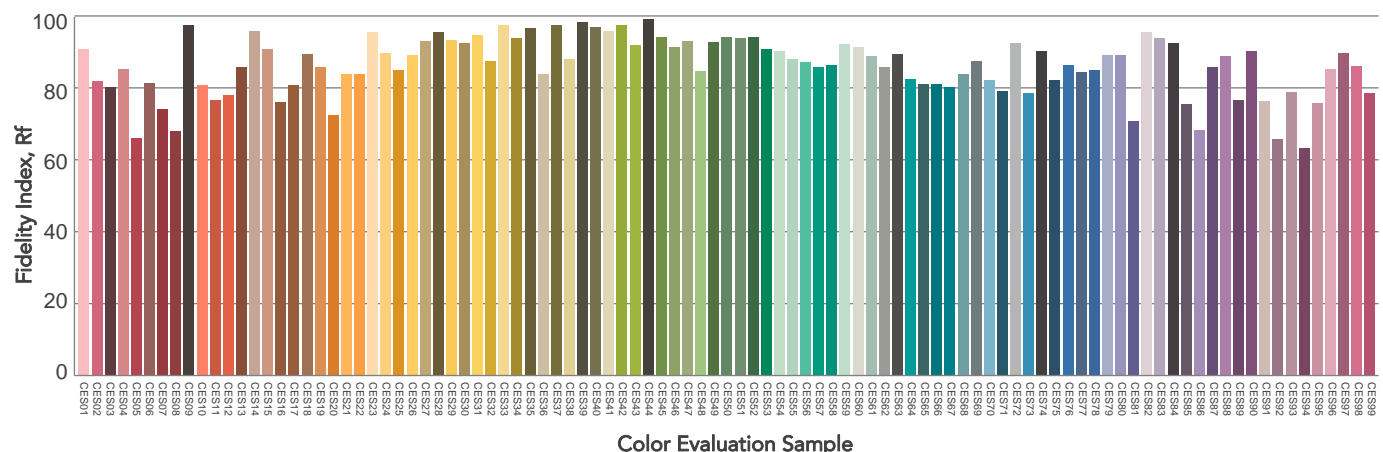
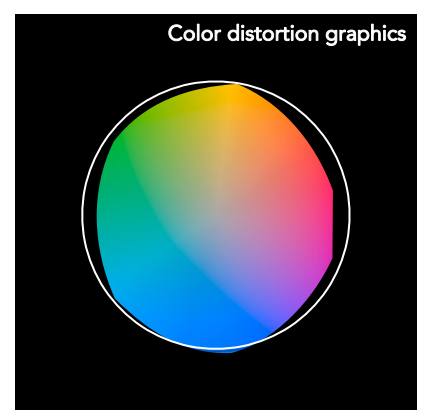
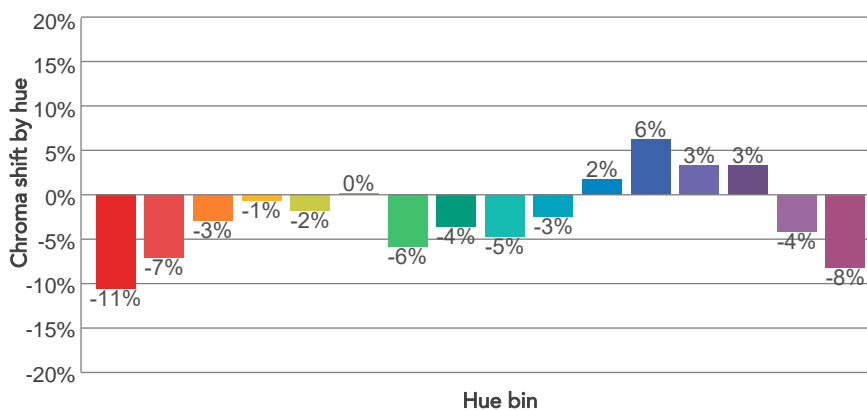
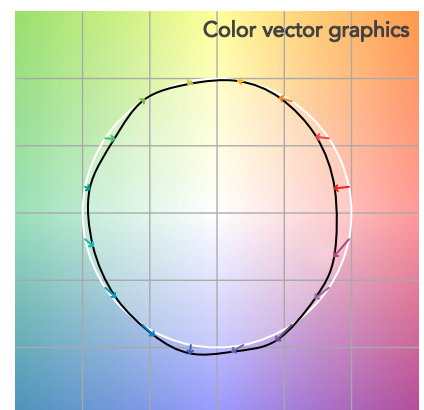
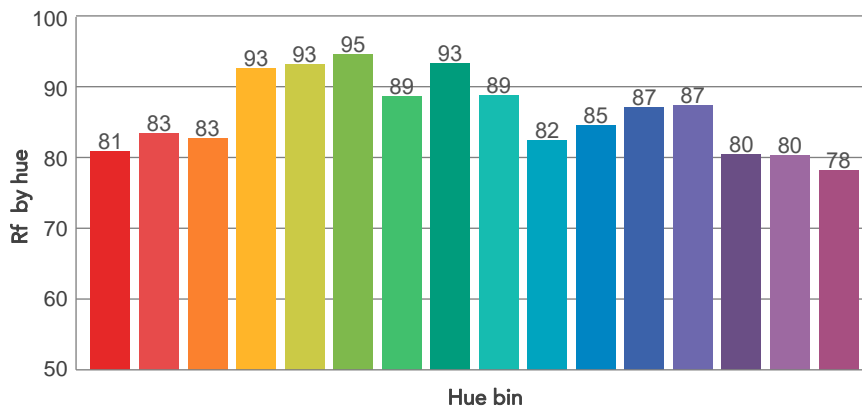
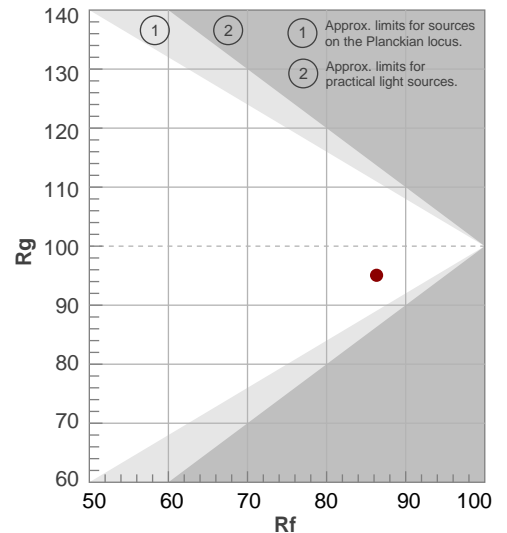
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3039 K	84,6	13,7	86,3	95,1	83,9	72	0,433	0,401	-0,0007

TM30 DETAILS

Rf 86,3
Fidelity index Rf

Rg 95,1
Gammut index

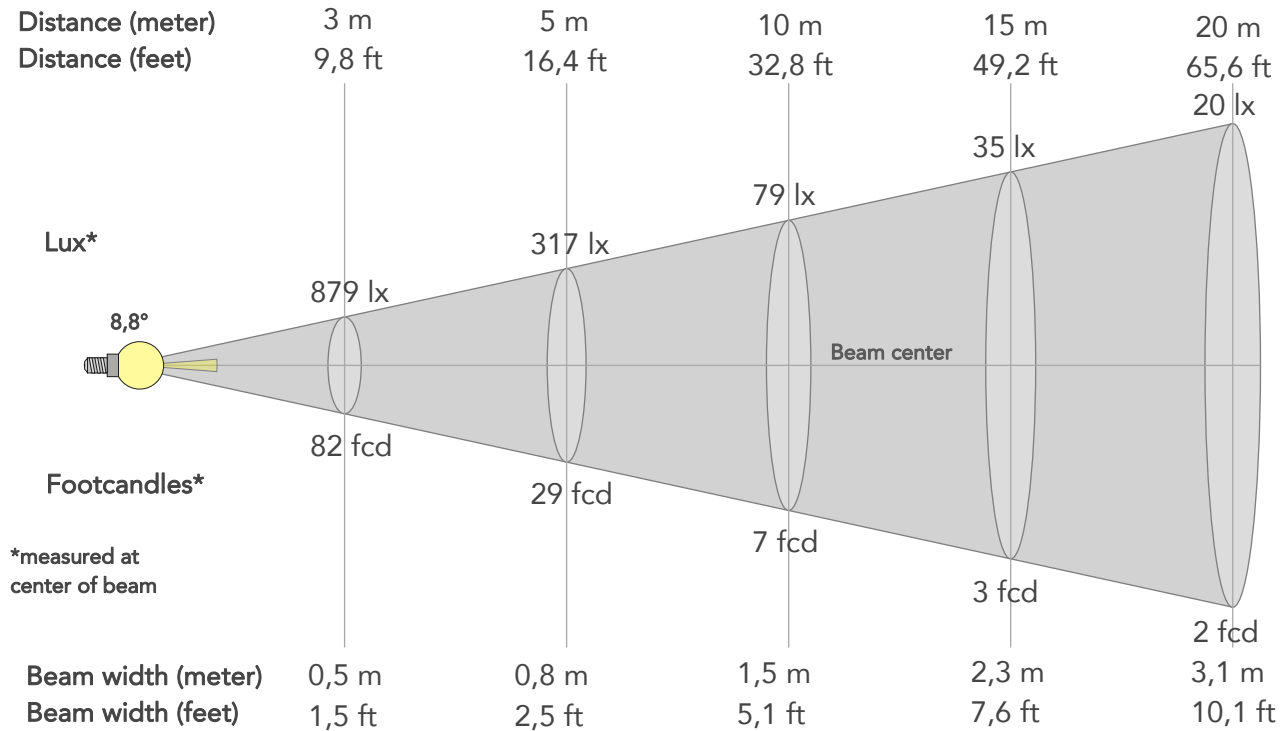
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	83	-3%	9%
4	93	-1%	4%
5	93	-2%	2%
6	95	0%	-2%
7	89	-6%	-3%
8	93	-4%	1%
9	89	-5%	6%
10	82	-3%	10%
11	85	2%	11%
12	87	6%	1%
13	87	3%	-9%
14	80	3%	-16%
15	80	-4%	-12%
16	78	-8%	-15%



BEAM DETAILS



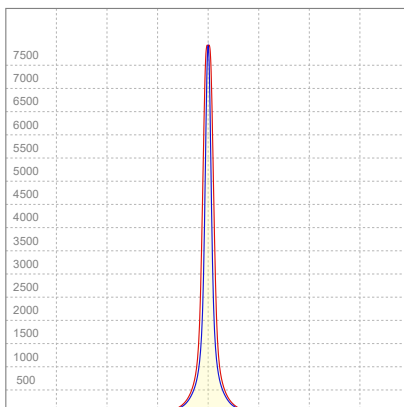
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
8,8°	21°	42,4°	100,0%	98,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	7914lx	1978lx	879lx	495lx	317lx	141lx	79lx	35lx	20lx	13lx	9lx	5lx	3lx
Footcand.	735fcd	184fcd	82fcd	46fcd	29fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,2m	0,3m	0,5m	0,6m	0,8m	1,2m	1,5m	2,3m	3,1m	3,9m	4,6m	6,2m	7,7m
Beam wid.	0,5ft	1ft	1,5ft	2ft	2,5ft	3,8ft	5,1ft	7,6ft	10,1ft	12,7ft	15,2ft	20,3ft	25,3ft

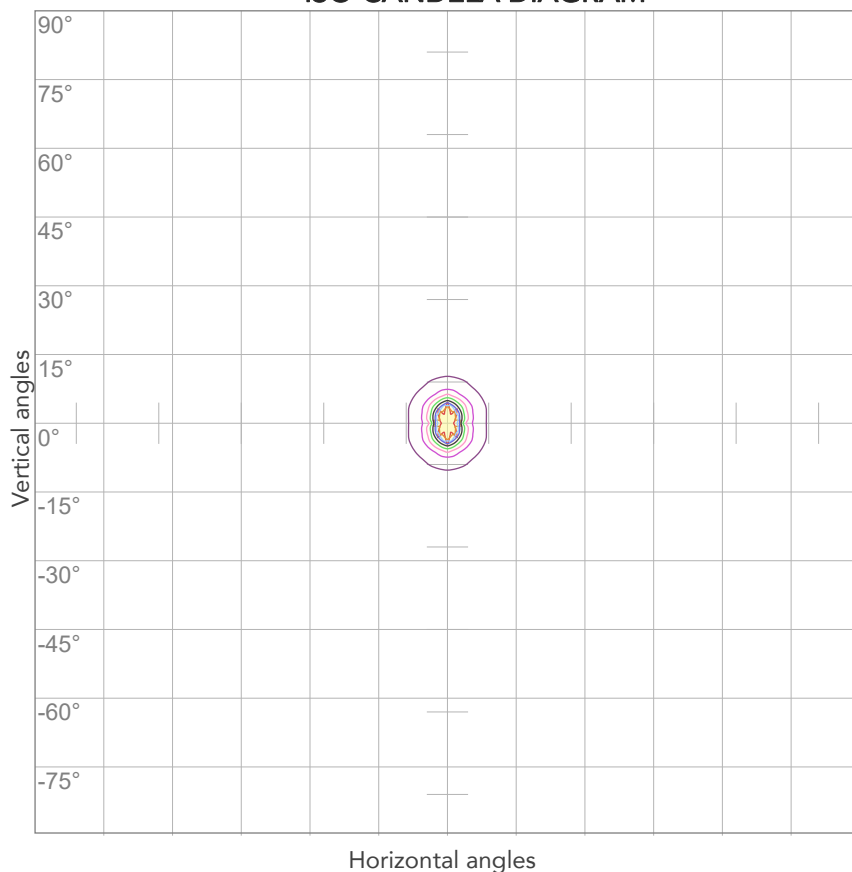
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,081A	12,3W	38lm/W

ISO CANDELA DIAGRAM



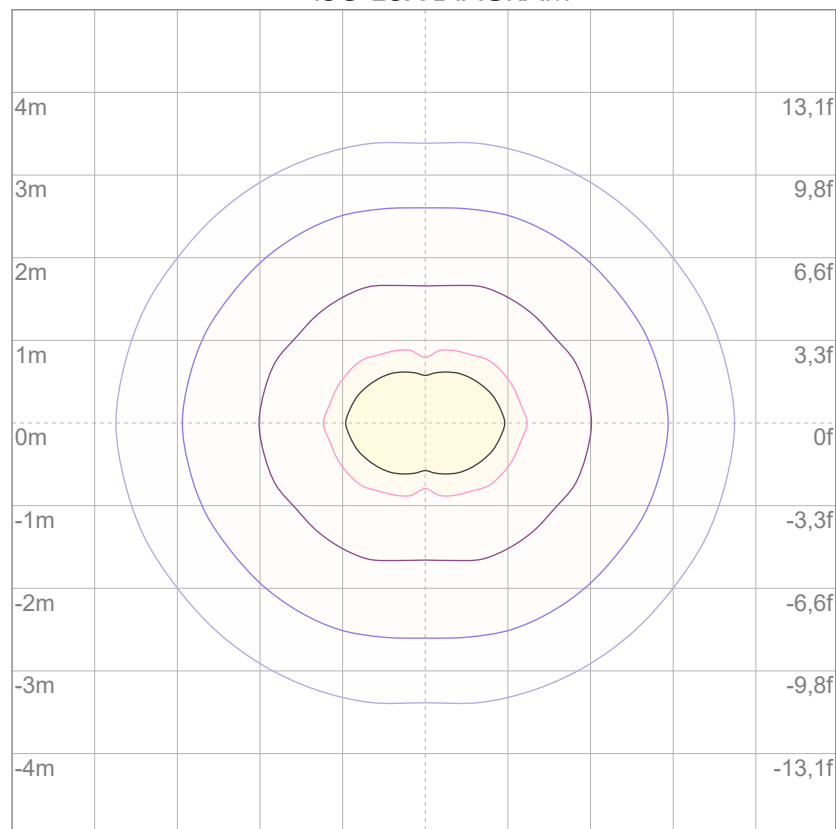
10%	791 cd
20%	1583 cd
30%	2374 cd
40%	3166 cd
50%	3957 cd
60%	4748 cd
70%	5540 cd
80%	6331 cd

Conditions:

Number of c-planes: 4

Candela at center: 7914 cd

ISO LUX DIAGRAM



3%	2,37 lx
5%	3,96 lx
10%	7,91 lx
30%	23,7 lx
50%	39,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 79,1 lx

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

Total lumen output:

440 lm

Peak candela output:

1323 cd

Light quality:

CRI: 84,8

Color temperature:

3044 K



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 20°

Target:

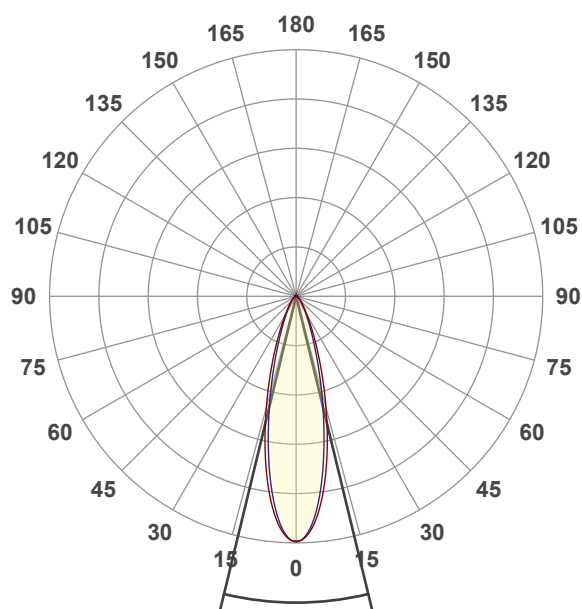
White

Operator:

Paolo Carvone

Date and time:

08/07/2022 13:06:14

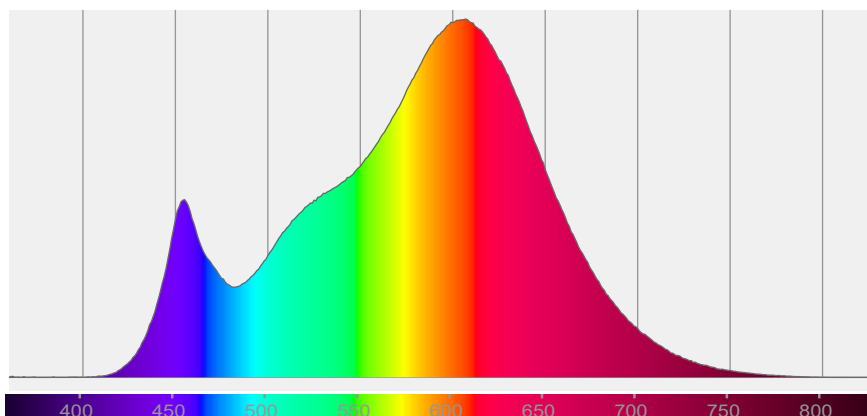


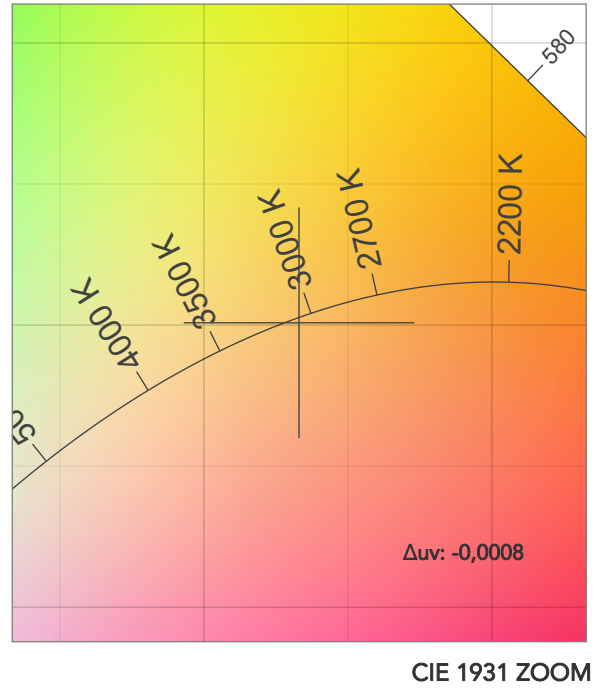
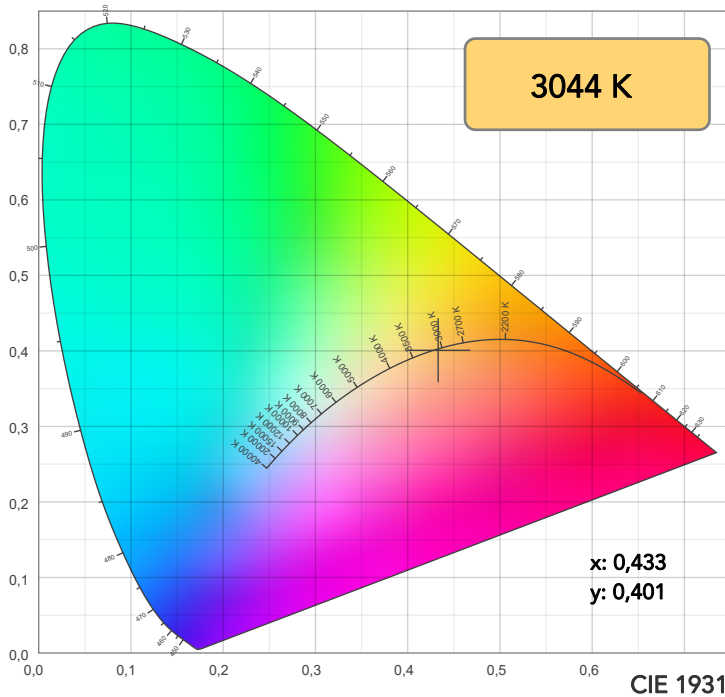
Beam angle 50%: 27,2°

Field angle 10%: 56,3°

Cut off angle 2.5%: 88,6°

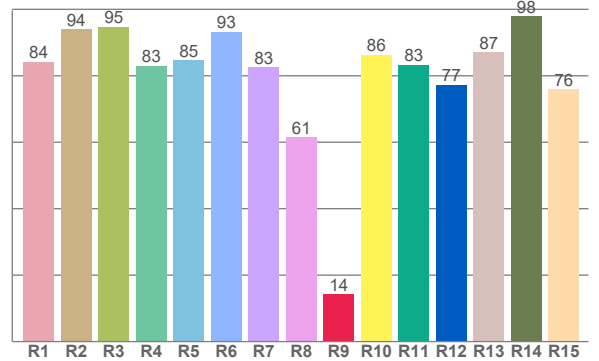
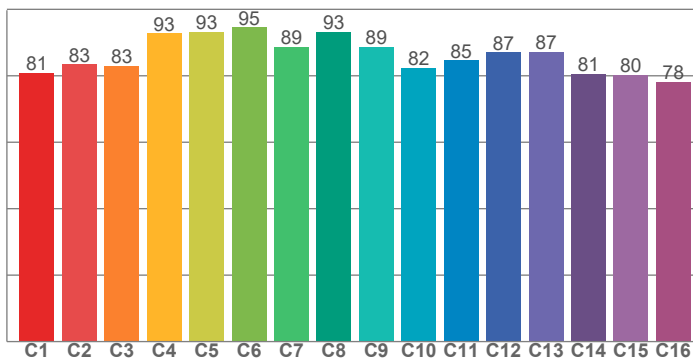
Spectra





TM30: 86,4

CRI: 84,8 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,2	94,1	94,7	83,0	84,7	93,3	82,6	61,4	14,2	86,3	83,4	77,3	87,0	97,9	76,0

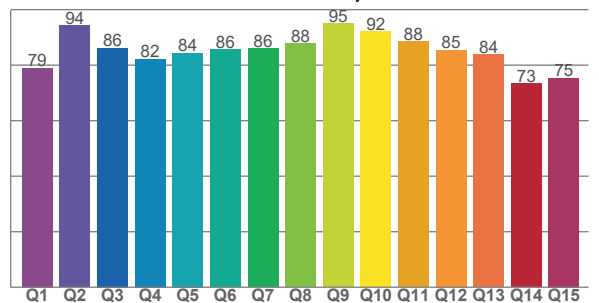
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,0	83,5	82,9	92,8	93,2	94,6	88,7	93,2	88,7	82,4	84,6	87,1	87,3	80,5	80,4	78,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,0	94,2	86,2	82,2	84,4	85,7	85,9	87,8	94,9	92,0	88,5	85,4	83,9	73,4	75,3

CQS: 84,0



COLOR PARAMETERS

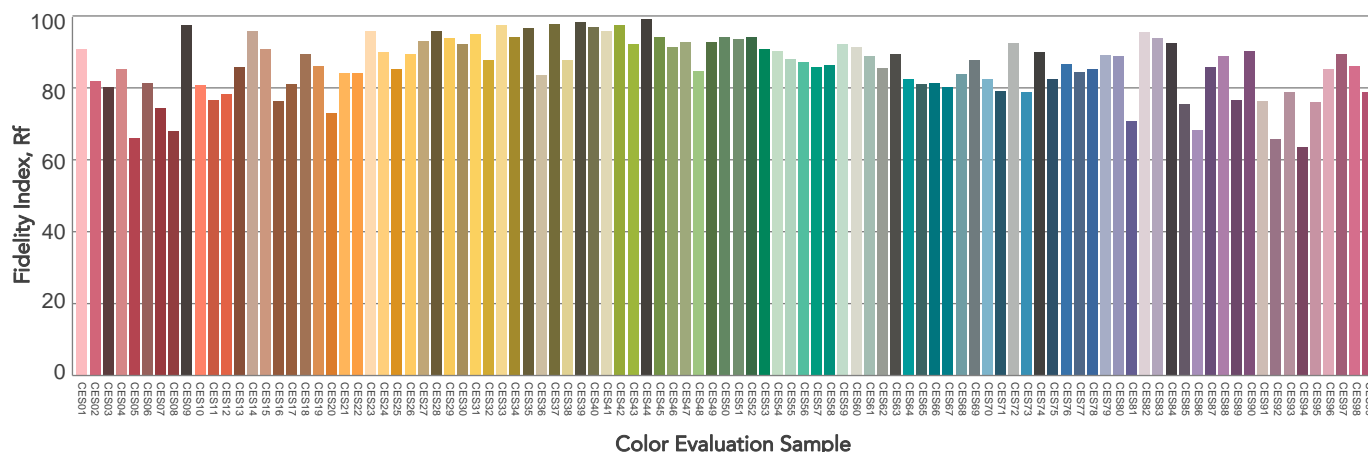
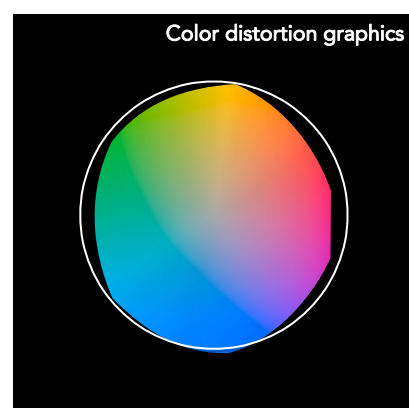
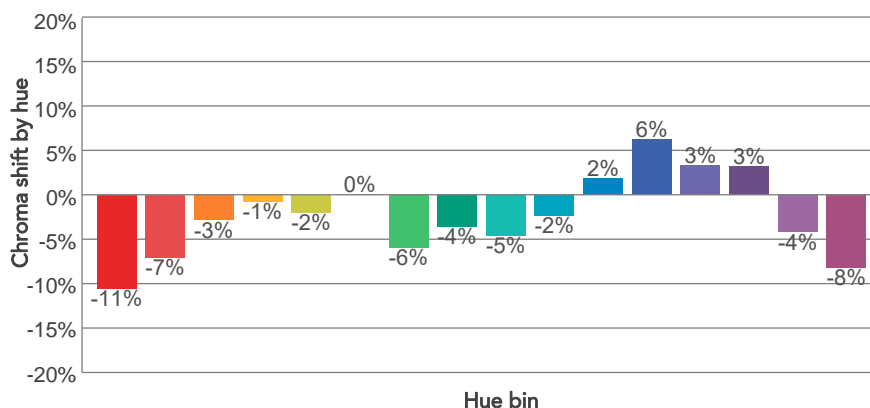
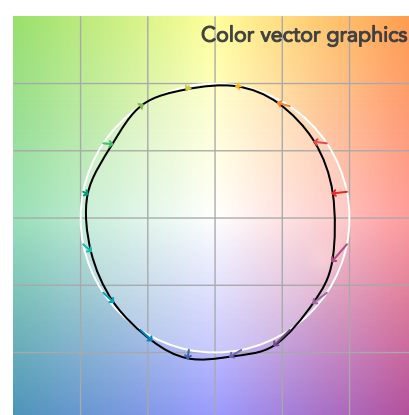
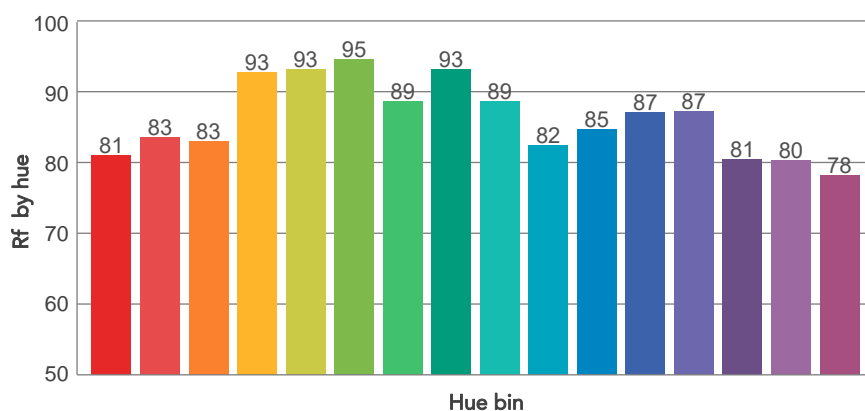
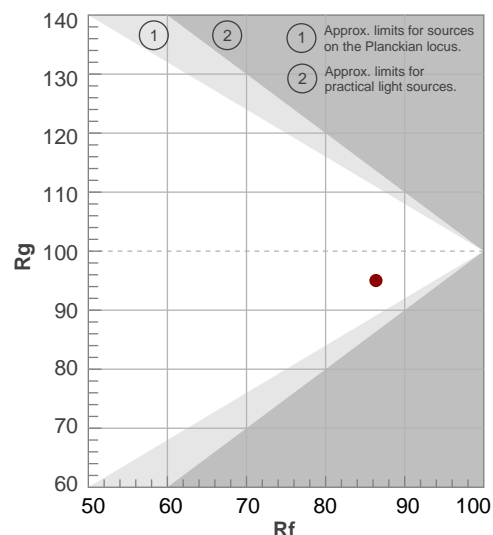
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3044 K	84,8	14,2	86,4	95,0	84,0	73	0,433	0,401	-0,0008

TM30 DETAILS

Rf 86,4
Fidelity index Rf

Rg 95,0
Gammut index

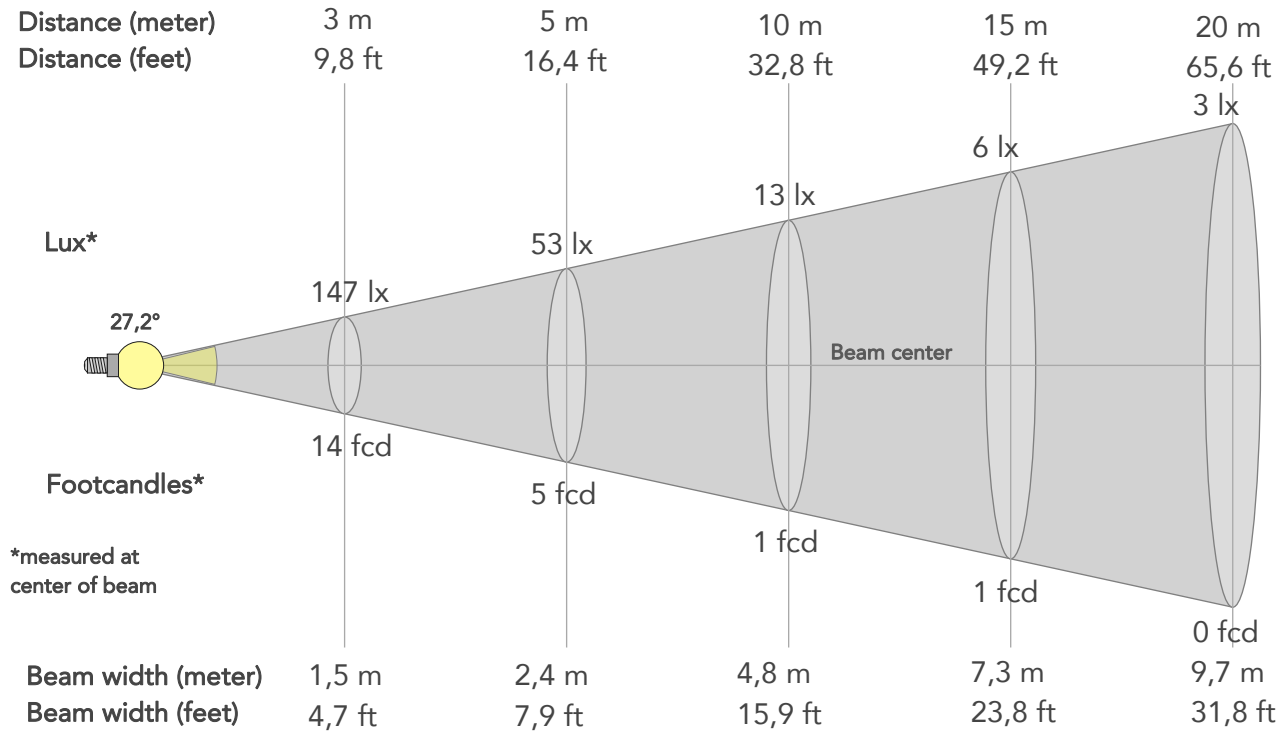
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	83	-3%	8%
4	93	-1%	4%
5	93	-2%	2%
6	95	0%	-2%
7	89	-6%	-3%
8	93	-4%	1%
9	89	-5%	6%
10	82	-2%	10%
11	85	2%	11%
12	87	6%	0%
13	87	3%	-9%
14	81	3%	-16%
15	80	-4%	-12%
16	78	-8%	-14%



BEAM DETAILS



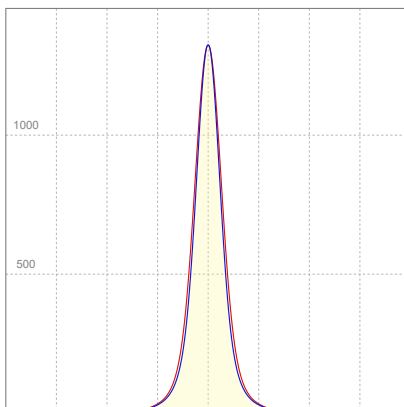
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,2°	56,3°	88,6°	98,8%	93,3%



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	1323lx	331lx	147lx	83lx	53lx	24lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	123fcd	31fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	1,9m	2,4m	3,6m	4,8m	7,3m	9,7m	12,1m	14,5m	19,4m	24,2m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,9ft	15,9ft	23,8ft	31,8ft	39,7ft	47,7ft	63,6ft	79,5ft

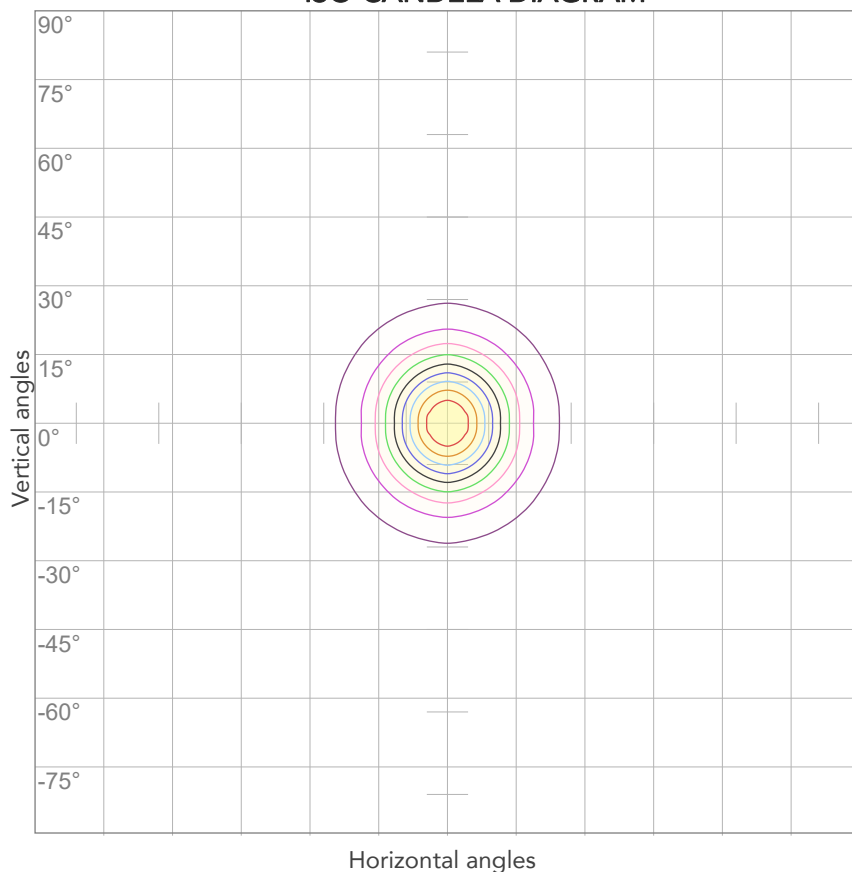
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,079A	12,1W	36lm/W

ISO CANDELA DIAGRAM



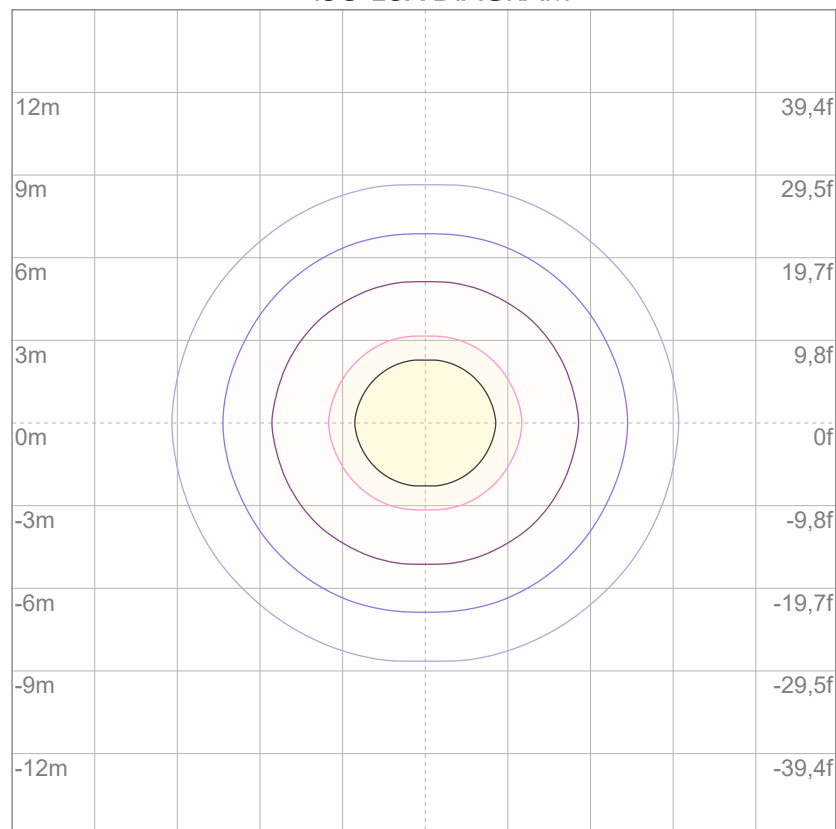
10%	132 cd
20%	265 cd
30%	397 cd
40%	529 cd
50%	661 cd
60%	794 cd
70%	926 cd
80%	1058 cd

Conditions:

Number of c-planes: 4

Candela at center: 1323 cd

ISO LUX DIAGRAM



3%	0,397 lx
5%	0,661 lx
10%	1,32 lx
30%	3,97 lx
50%	6,61 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:

445 lm

Peak candela output:

518 cd

Light quality:

CRI: 85,0

Color temperature:

3059 K



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 40°

Target:

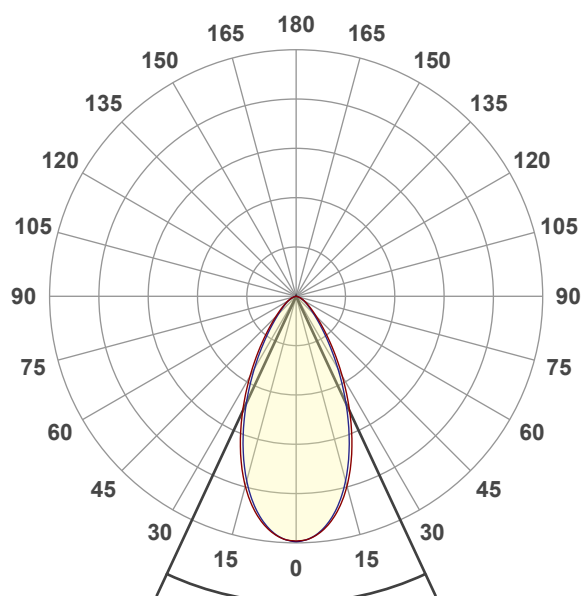
White

Operator:

Paolo Carvone

Date and time:

08/07/2022 13:25:53

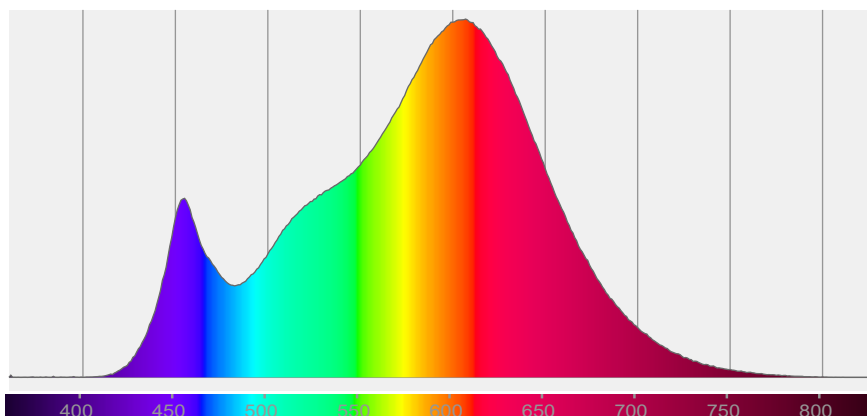


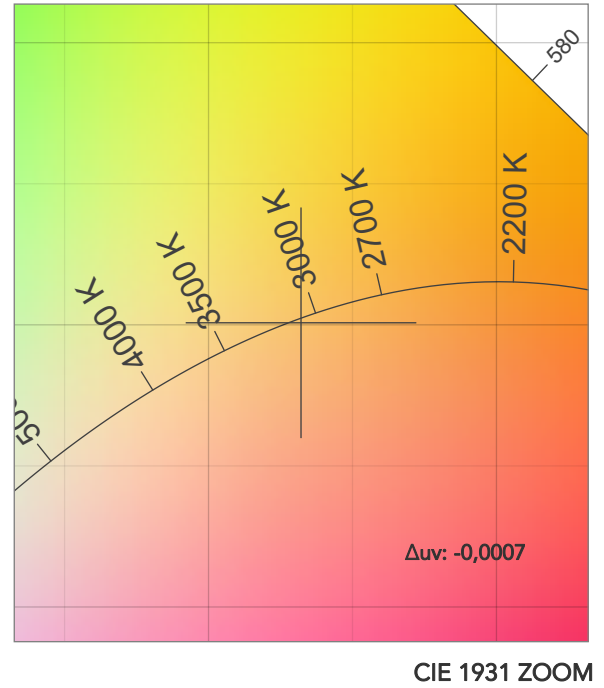
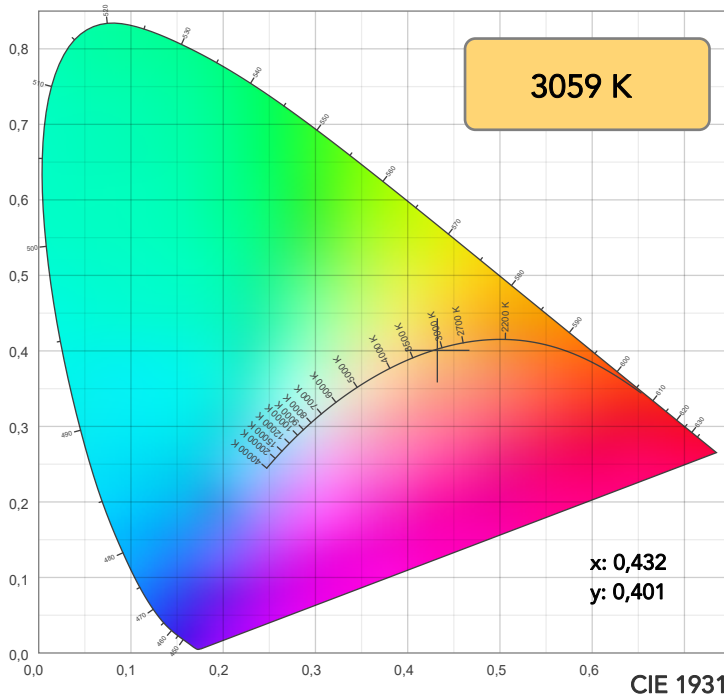
Beam angle 50%: 49,9°

Field angle 10%: 92,3°

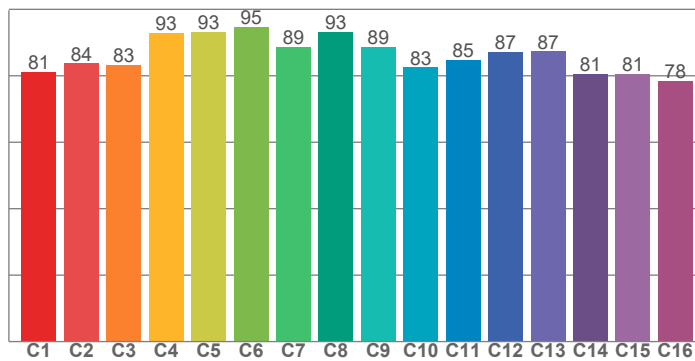
Cut off angle 2.5%: 130,2°

Spectra

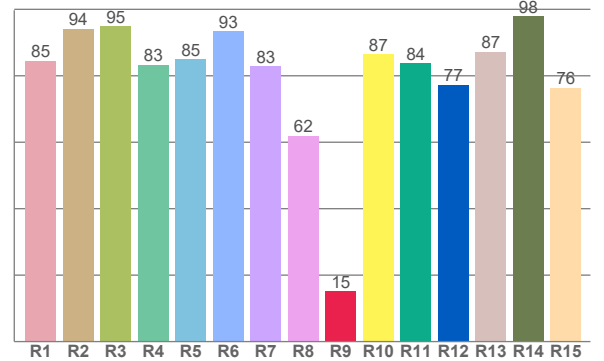




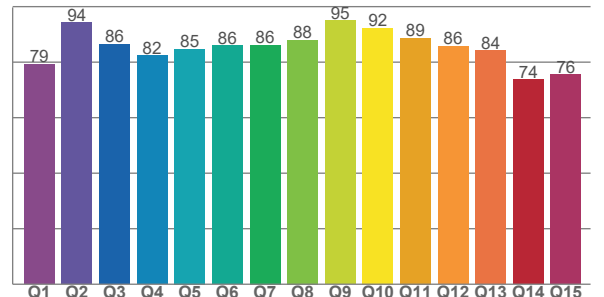
TM30: 86,5



CRI: 85,0 (R1-R8)



CQS: 84,2



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,5	94,2	94,8	83,3	85,0	93,4	82,9	61,9	15,2	86,6	83,8	77,3	87,2	97,9	76,4

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,2	83,8	83,3	92,9	93,2	94,7	88,8	93,3	88,7	82,6	84,8	87,2	87,4	80,7	80,5	78,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,2	94,3	86,4	82,4	84,7	85,9	86,2	88,0	95,0	92,2	88,7	85,7	84,2	73,7	75,6

COLOR PARAMETERS

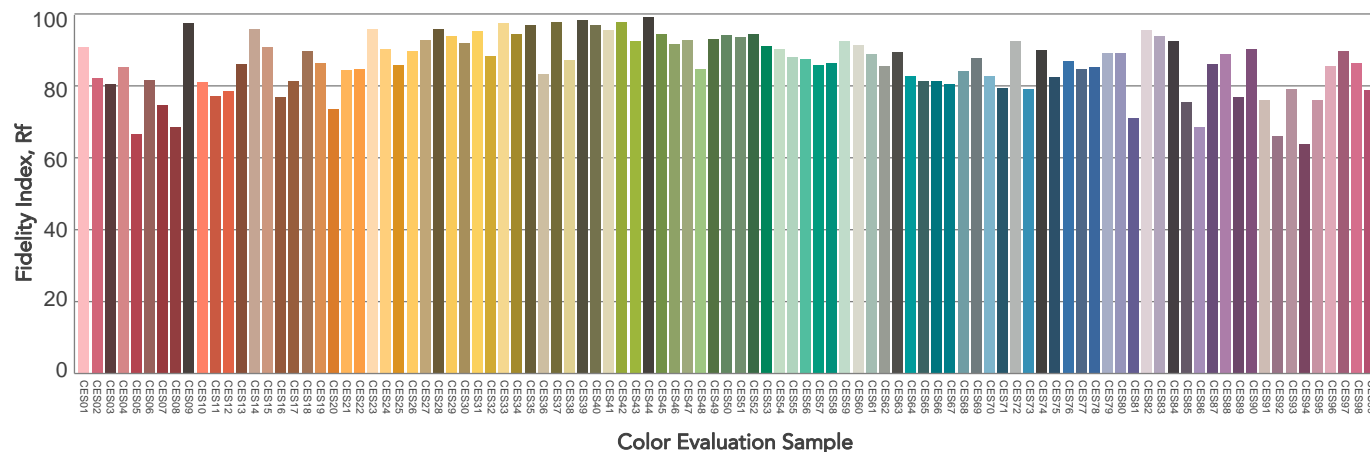
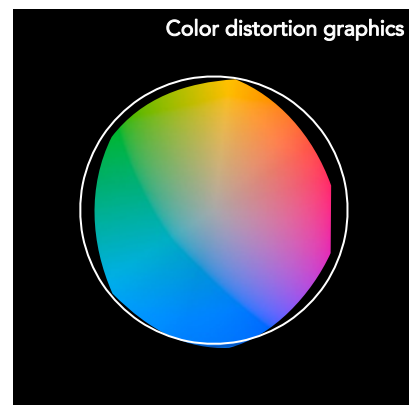
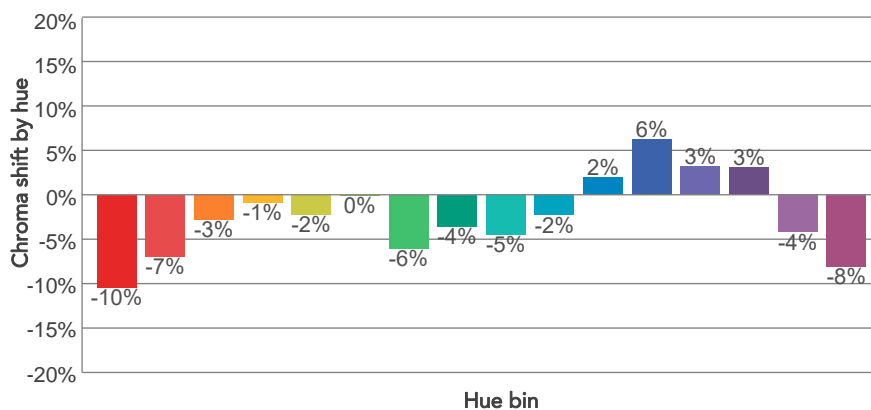
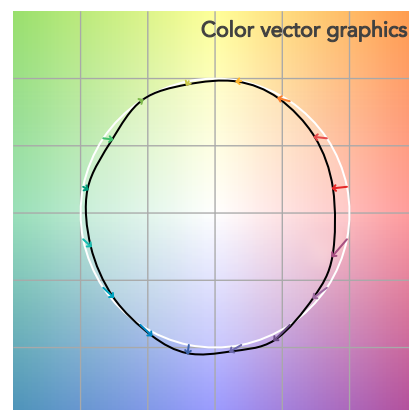
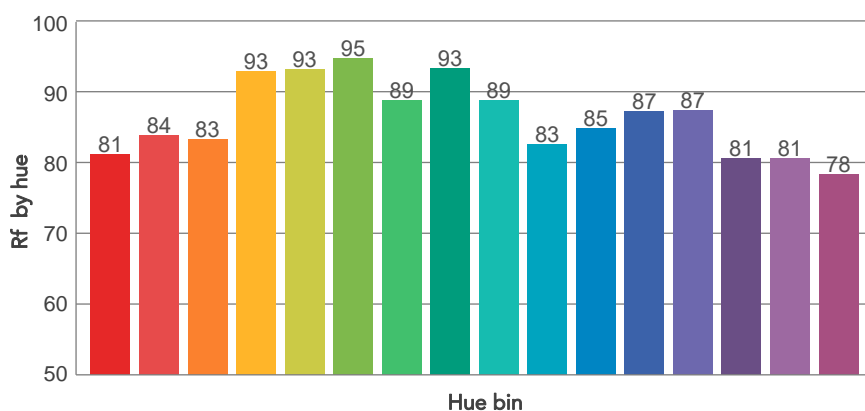
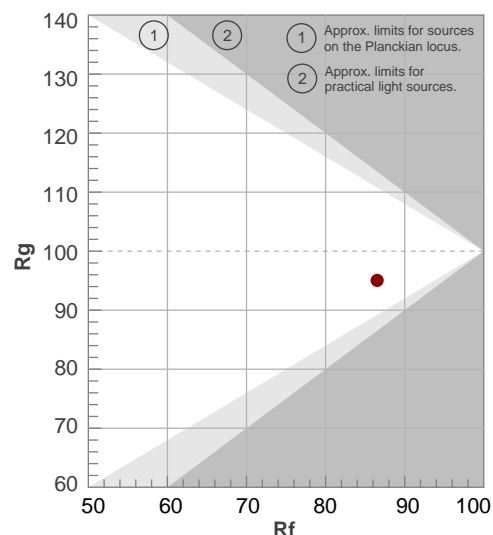
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3059 K	85,0	15,2	86,5	95,0	84,2	73	0,432	0,401	-0,0007

TM30 DETAILS

Rf 86,5
Fidelity index Rf

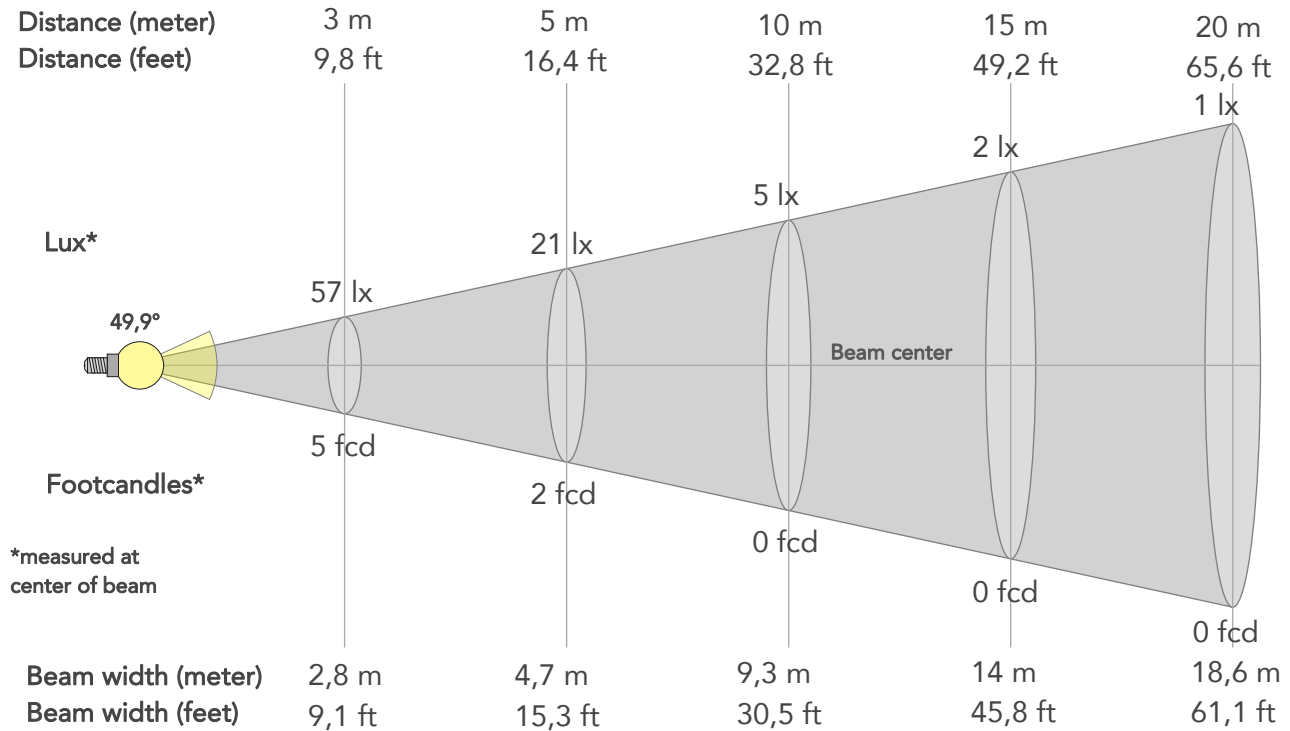
Rg 95,0
Gammut index

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



BEAM DETAILS

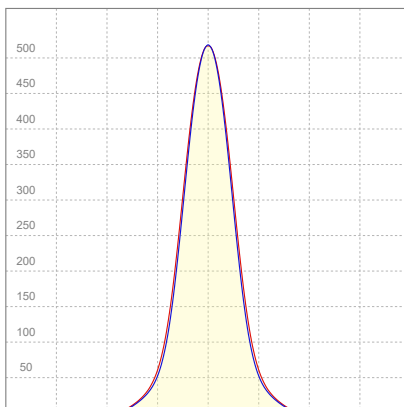
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,9°	92,3°	130,2°	96,2%	86,3%



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	517lx	129lx	57lx	32lx	21lx	9lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	48fcd	12fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,7m	4,7m	7m	9,3m	14m	18,6m	23,3m	27,9m	37,3m	46,6m
Beam wid.	3,1ft	6,1ft	9,1ft	12,2ft	15,3ft	22,9ft	30,5ft	45,8ft	61,1ft	76,4ft	91,6ft	122,2ft	152,7ft

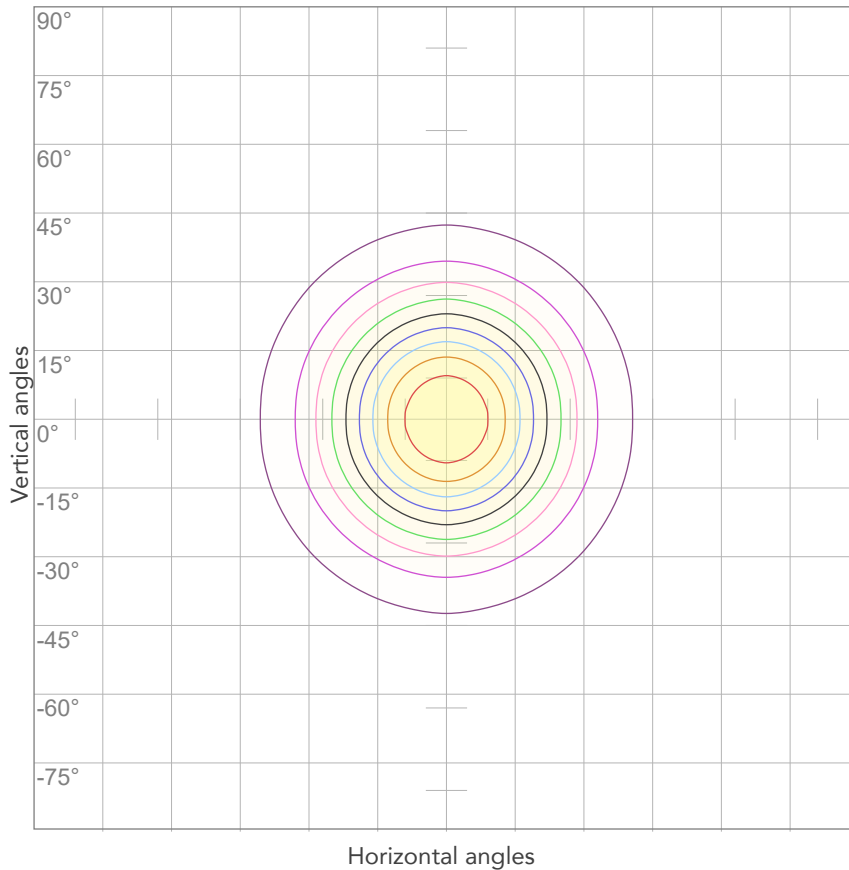
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,074A	11,5W	39lm/W

ISO CANDELA DIAGRAM



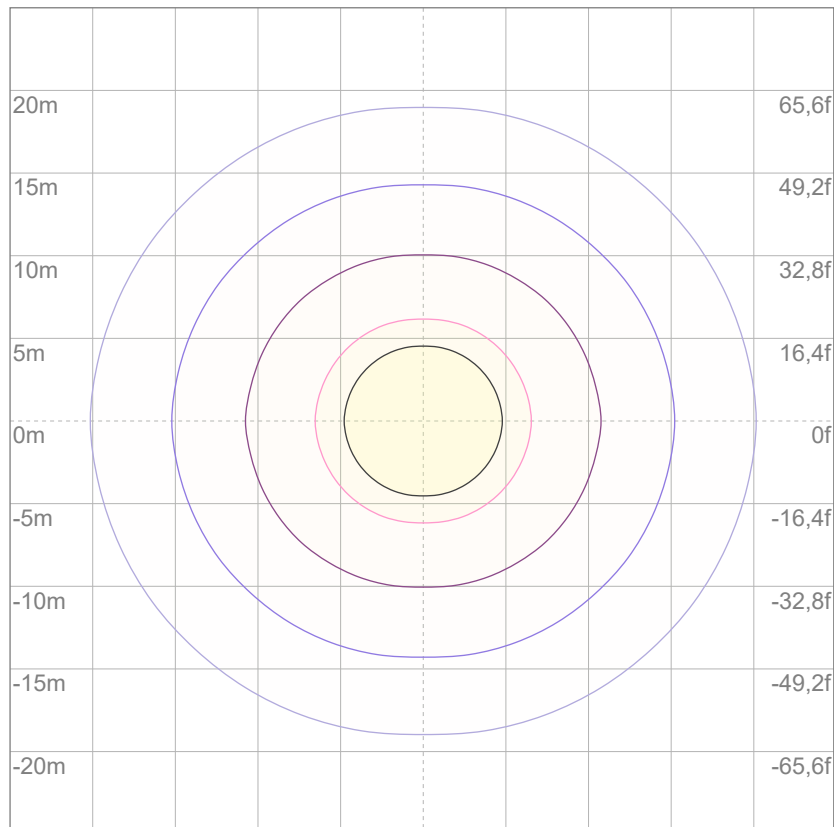
10%	52 cd
20%	103 cd
30%	155 cd
40%	207 cd
50%	259 cd
60%	310 cd
70%	362 cd
80%	414 cd

Conditions:

Number of c-planes: 4

Candela at center: 517 cd

ISO LUX DIAGRAM



3%	0,155 lx
5%	0,259 lx
10%	0,517 lx
30%	1,55 lx
50%	2,59 lx

Conditions:

Number of c-planes: 4

Lux at center: 5,17 lx

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

Total lumen output:

451 lm

Peak candela output:

393 cd

Light quality:

CRI: 85,1

Color temperature:

3062 K



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 60°

Target:

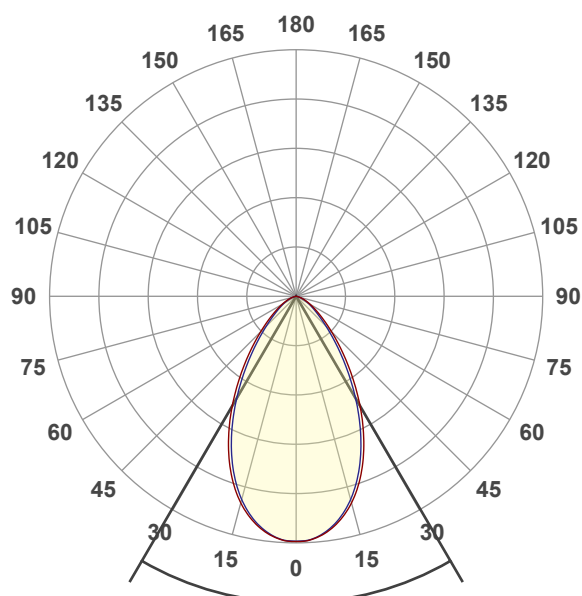
White

Operator:

Paolo Carvone

Date and time:

08/07/2022 14:20:20

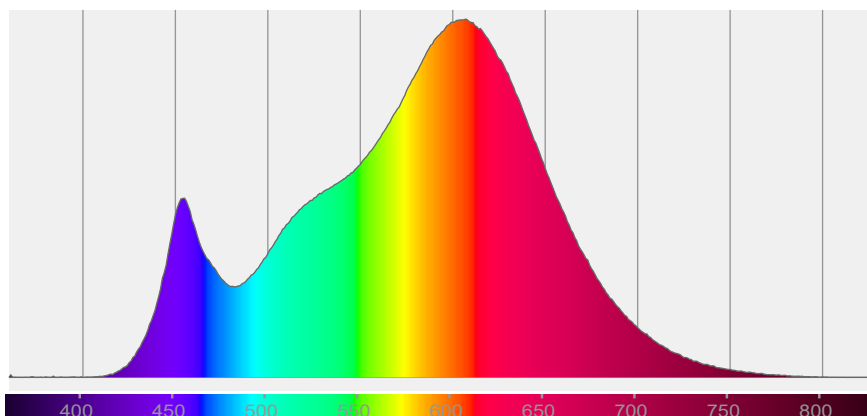


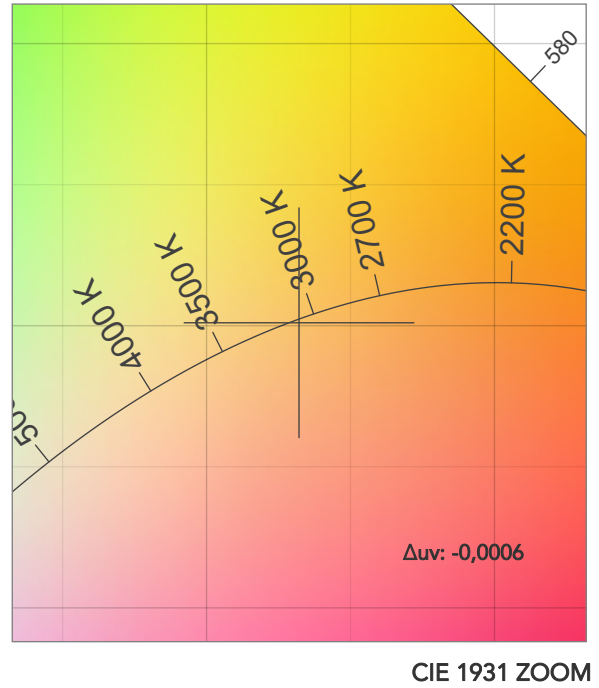
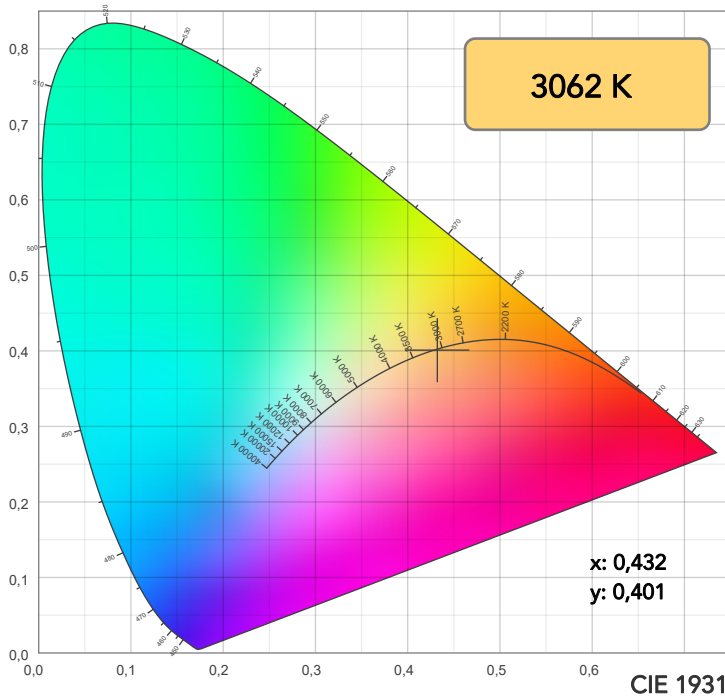
Beam angle 50%: 60,5°

Field angle 10%: 107°

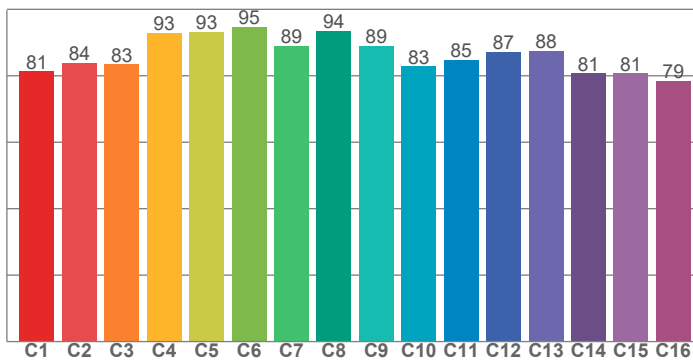
Cut off angle 2.5%: 139,5°

Spectra

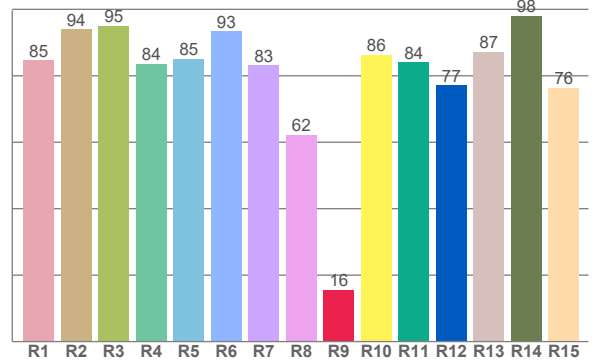




TM30: 86,6



CRI: 85,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,6	94,1	95,1	83,6	85,1	93,3	83,1	62,2	15,6	86,4	84,1	77,2	87,3	98,1	76,4

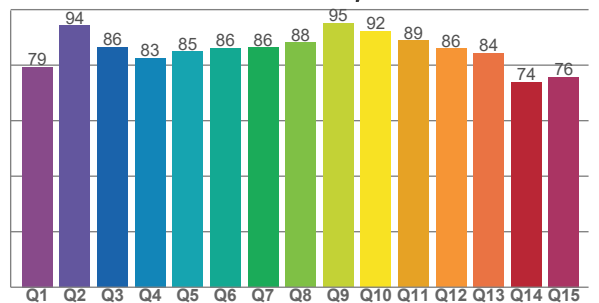
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,4	83,9	83,4	92,9	93,2	94,8	89,0	93,5	89,0	82,8	84,8	87,2	87,5	80,8	80,7	78,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,3	94,3	86,4	82,6	84,9	86,1	86,4	88,2	95,1	92,2	88,9	85,9	84,4	73,8	75,7

CQS: 84,3



COLOR PARAMETERS

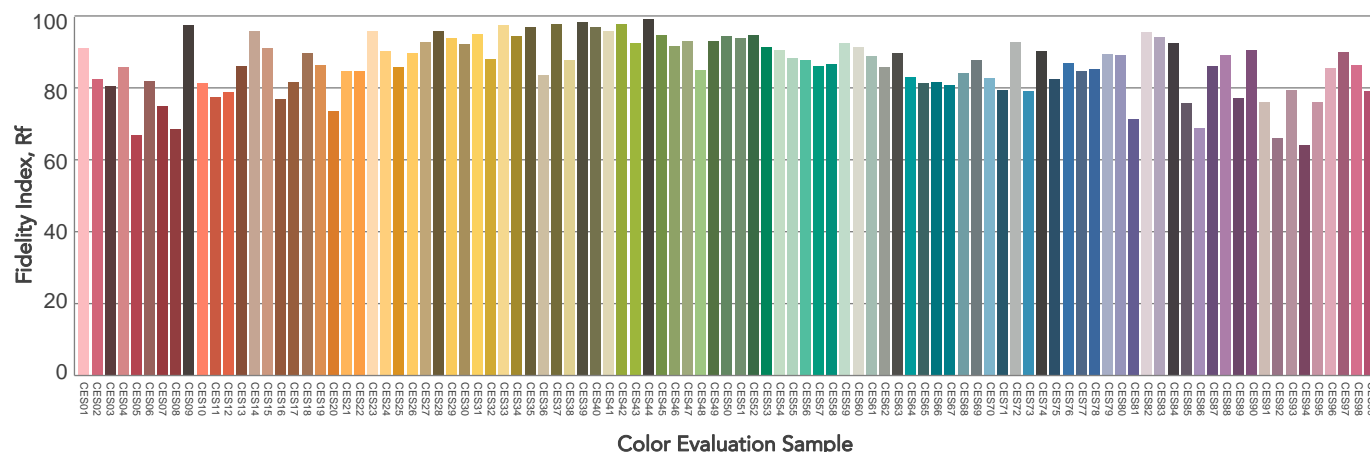
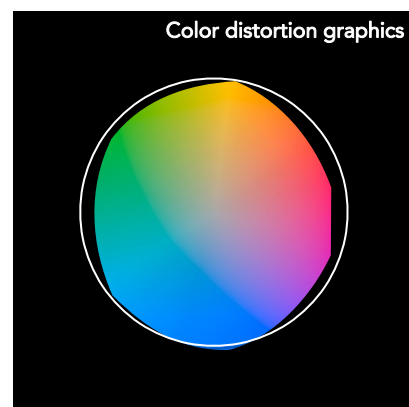
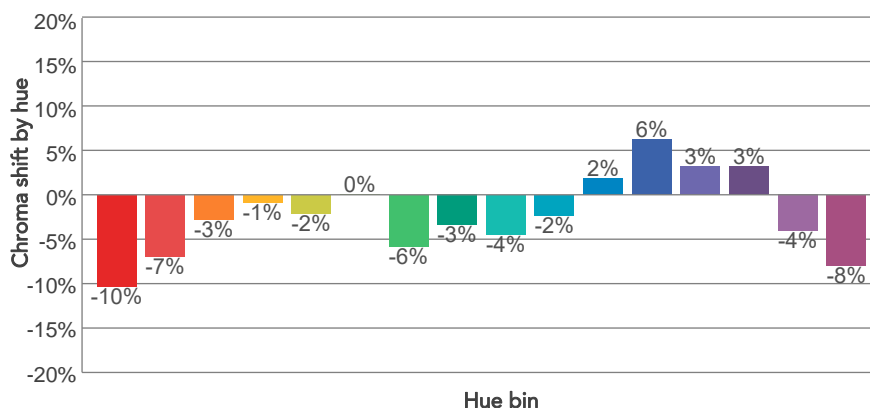
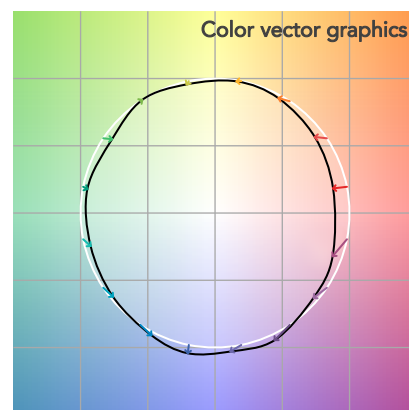
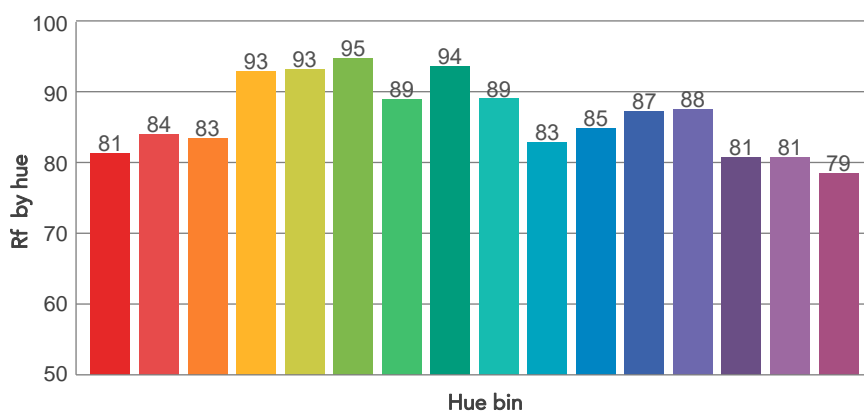
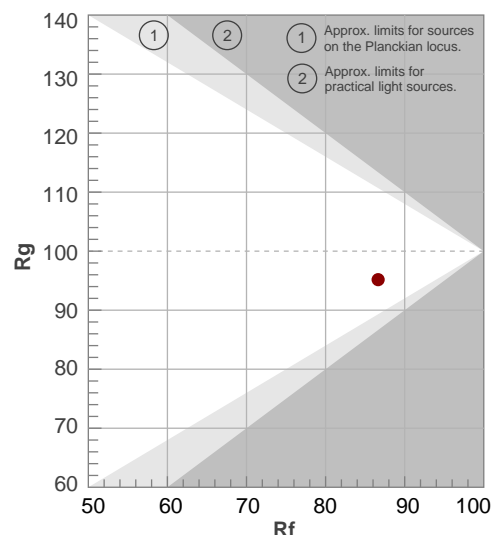
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3062 K	85,1	15,6	86,6	95,2	84,3	73	0,432	0,401	-0,0006

TM30 DETAILS

Rf 86,6
Fidelity index Rf

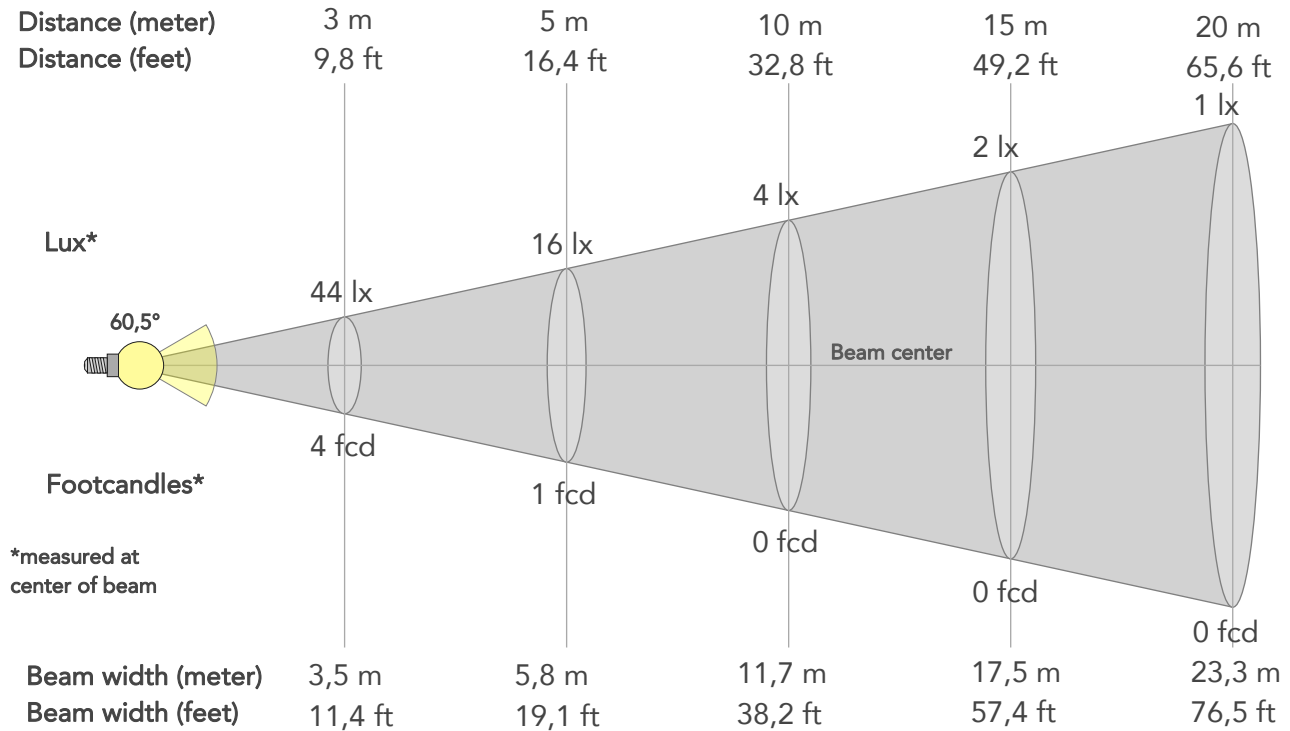
Rg 95,2
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-10%	1%
2	84	-7%	6%
3	83	-3%	8%
4	93	-1%	3%
5	93	-2%	2%
6	95	0%	-2%
7	89	-6%	-3%
8	94	-3%	1%
9	89	-4%	6%
10	83	-2%	10%
11	85	2%	11%
12	87	6%	0%
13	88	3%	-9%
14	81	3%	-16%
15	81	-4%	-12%
16	79	-8%	-14%



BEAM DETAILS

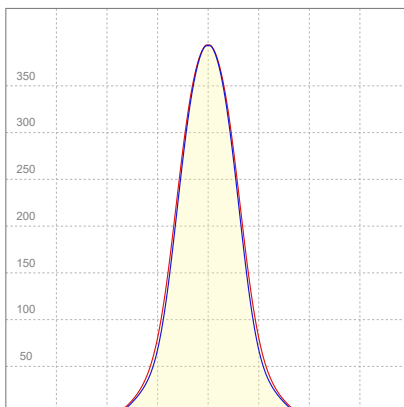
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60,5°	107°	139,5°	95,3%	82,6%



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	393lx	98lx	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.	1,2m	2,3m	3,5m	4,7m	5,8m	8,7m	11,7m	17,5m	23,3m	29,2m	35m	46,6m	58,3m
Beam wid.	3,8ft	7,7ft	11,4ft	15,3ft	19,1ft	28,7ft	38,2ft	57,4ft	76,5ft	95,6ft	114,7ft	153ft	191,2ft

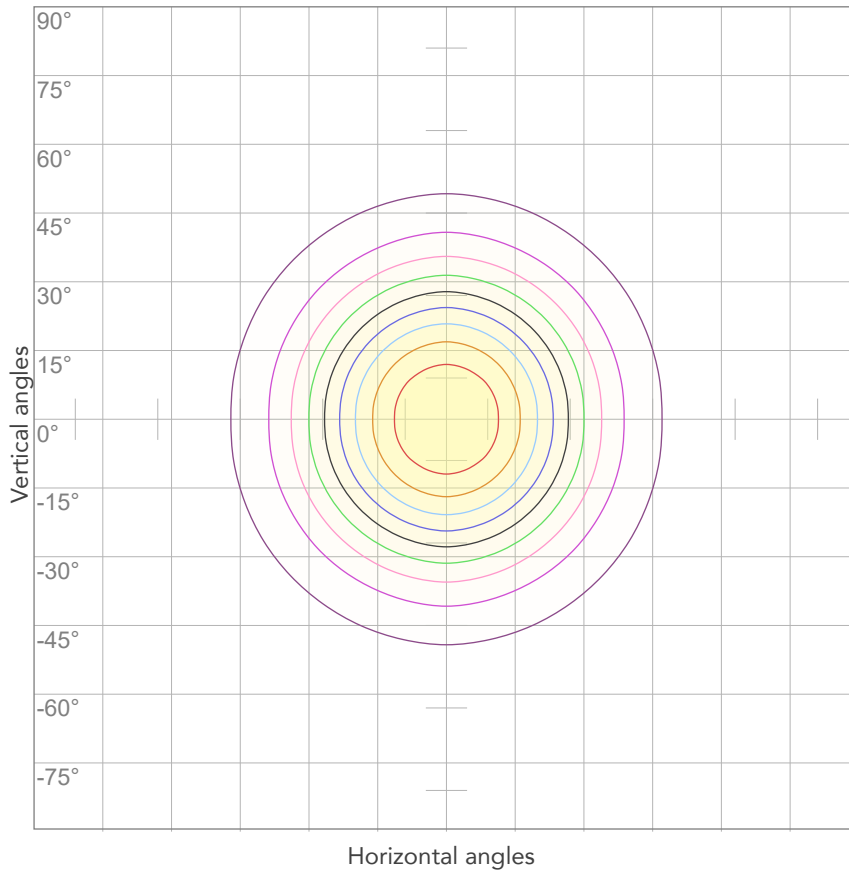
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,074A	11,3W	40lm/W

ISO CANDELA DIAGRAM



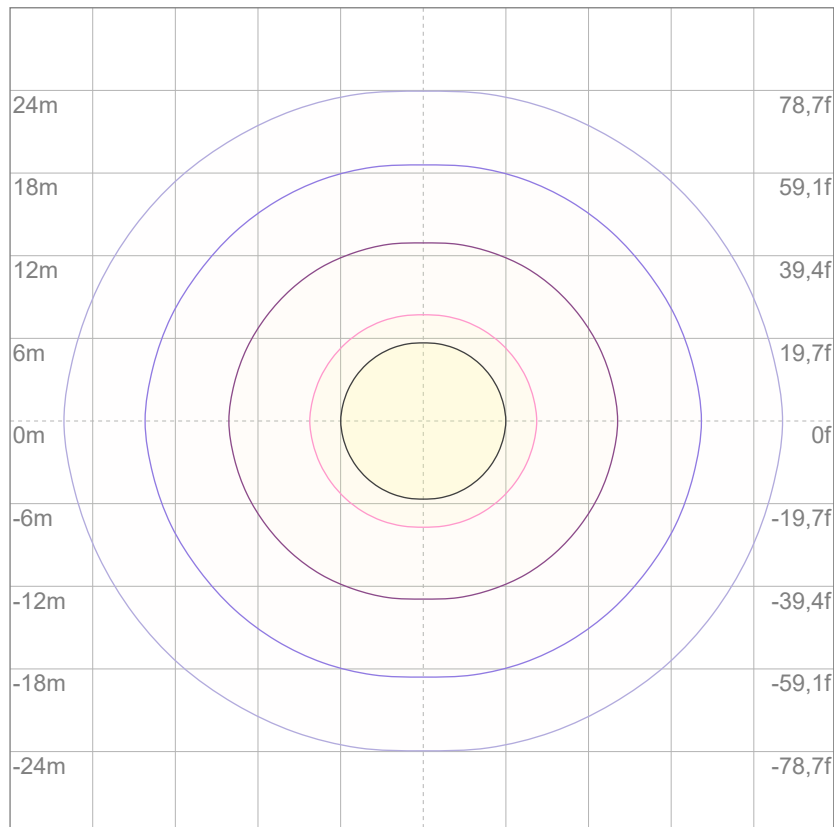
10%	39 cd
20%	79 cd
30%	118 cd
40%	157 cd
50%	197 cd
60%	236 cd
70%	275 cd
80%	315 cd

Conditions:

Number of c-planes: 4

Candela at center: 393 cd

ISO LUX DIAGRAM



3%	0,118 lx
5%	0,197 lx
10%	0,393 lx
30%	1,18 lx
50%	1,97 lx

Conditions:

Number of c-planes: 4

Lux at center: 3,93 lx

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

Total lumen output:

620 lm

Peak candela output:

949 cd

Light quality:

CRI: 85,0

Color temperature:

3057 K



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 10°x60°

Target:

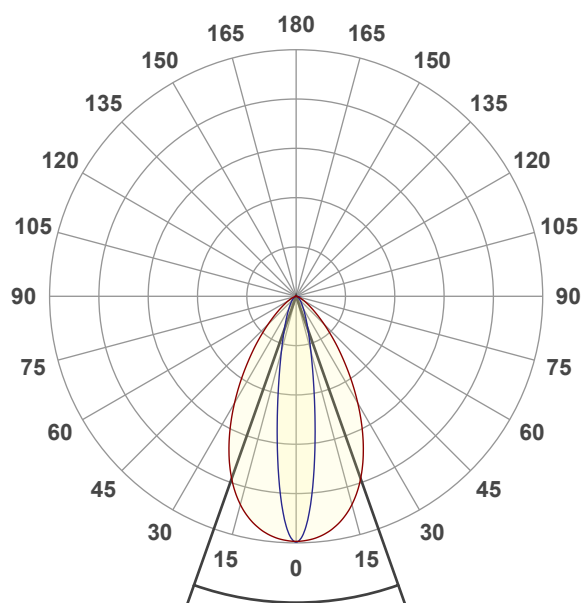
White

Operator:

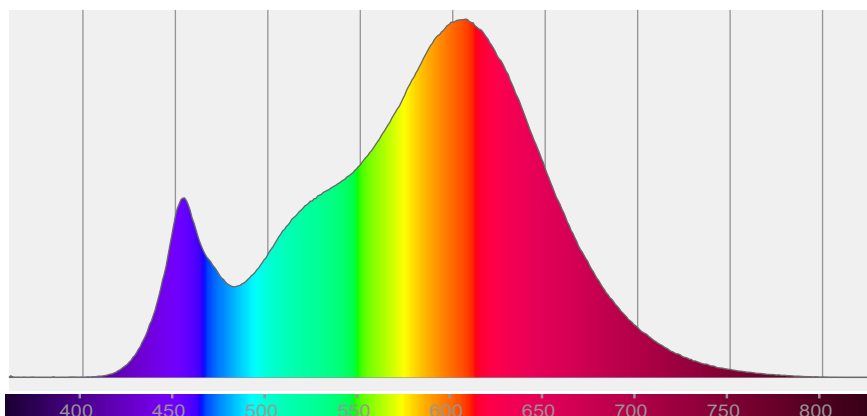
Paolo Carvone

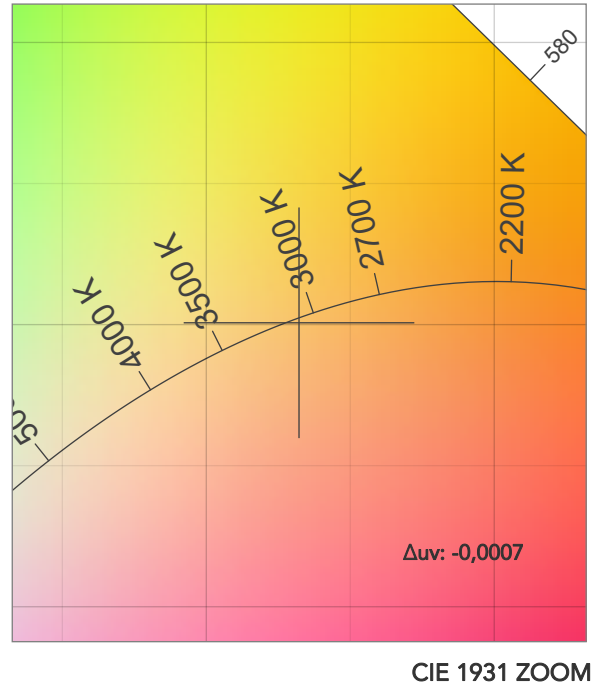
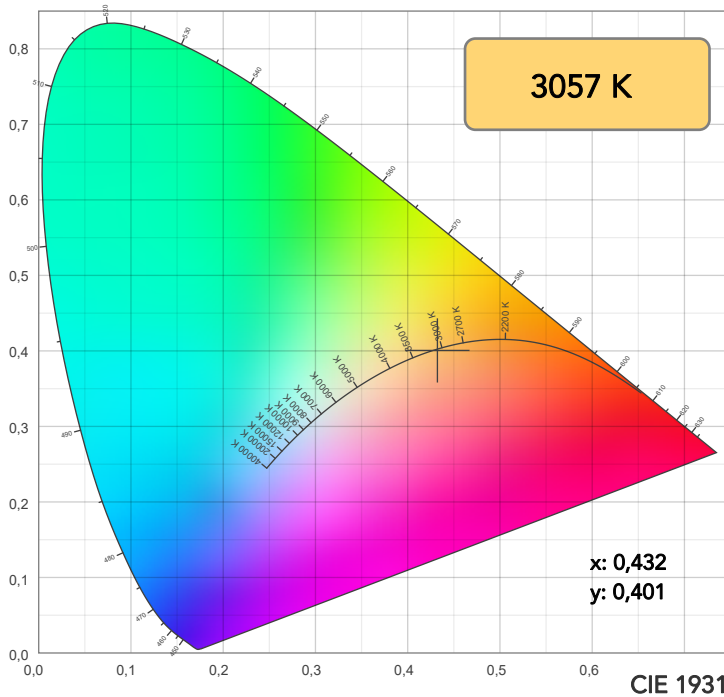
Date and time:

08/07/2022 14:58:49

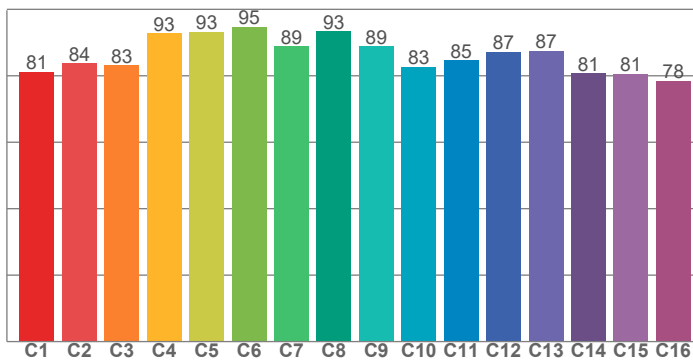


Spectra

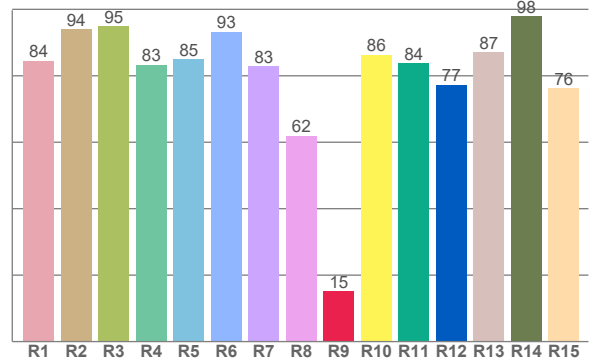




TM30: 86,5



CRI: 85,0 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,5	94,1	94,9	83,3	84,9	93,3	82,9	61,9	15,1	86,4	83,8	77,3	87,2	98,0	76,3

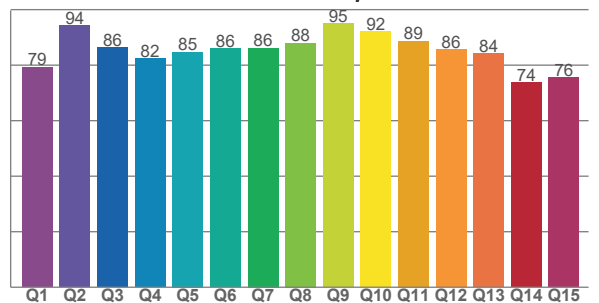
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,2	83,7	83,2	92,8	93,2	94,7	88,8	93,4	88,9	82,6	84,7	87,2	87,4	80,7	80,6	78,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,2	94,3	86,3	82,3	84,7	85,9	86,2	88,0	95,0	92,1	88,6	85,6	84,1	73,7	75,5

CQS: 84,2



COLOR PARAMETERS

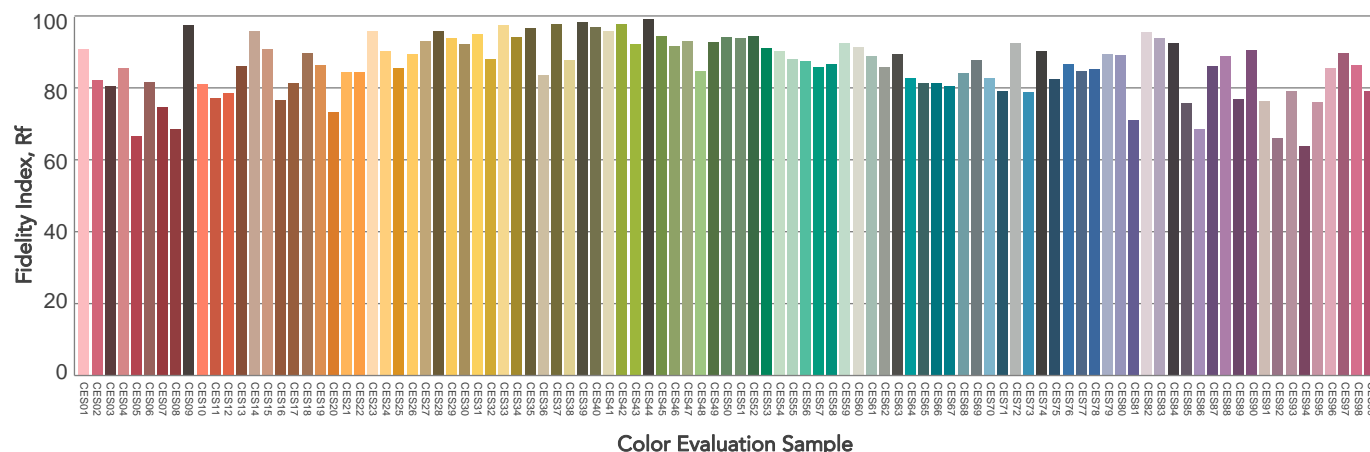
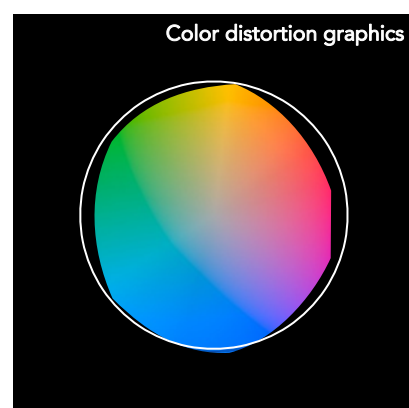
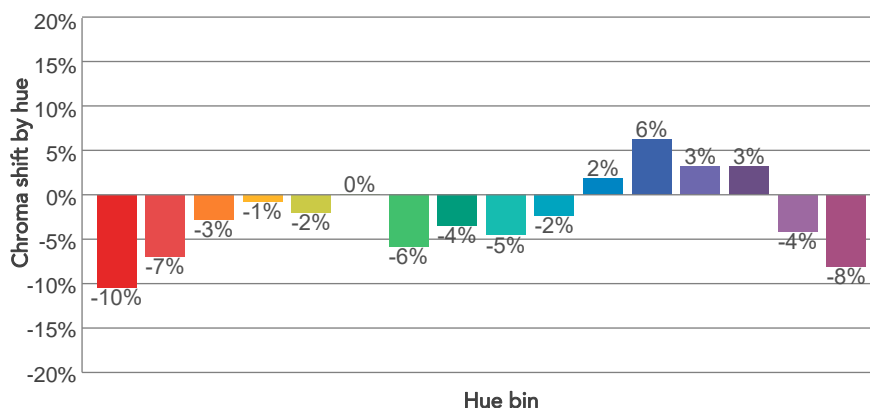
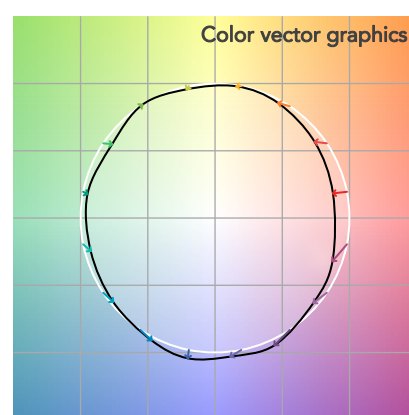
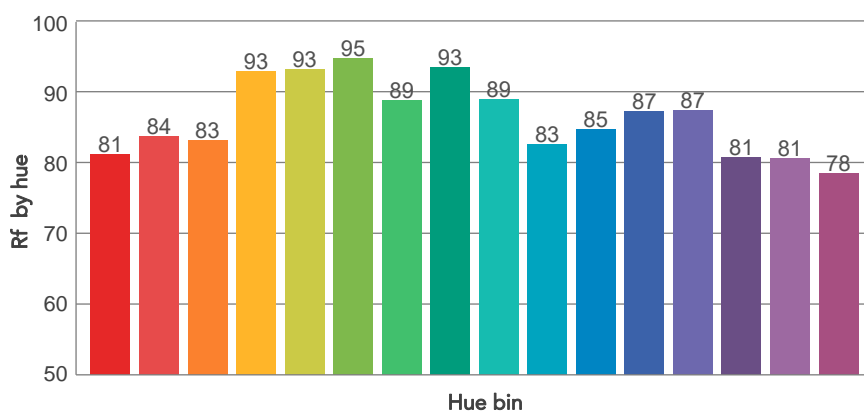
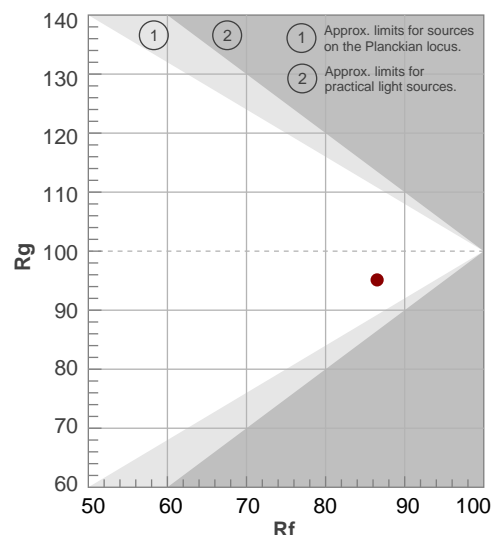
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3057 K	85,0	15,1	86,5	95,1	84,2	73	0,432	0,401	-0,0007

TM30 DETAILS

Rf 86,5
Fidelity index Rf

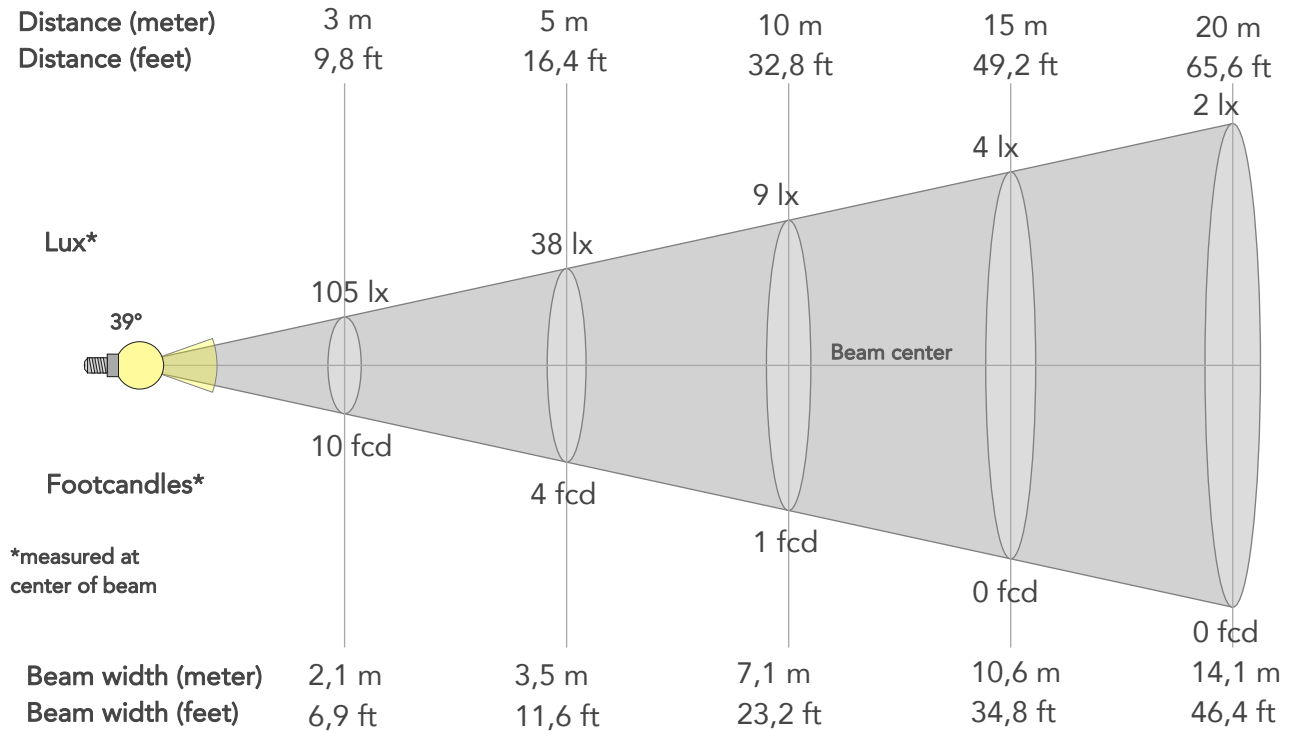
Rg 95,1
Gammut index

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



BEAM DETAILS

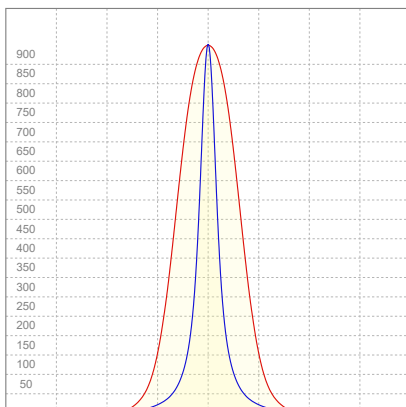
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39°	73,8°	107,7°	97,4%	87,6%



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	949lx	237lx	105lx	59lx	38lx	17lx	9lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	88fcd	22fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,3m	7,1m	10,6m	14,1m	17,7m	21,2m	28,3m	35,4m
Beam wid.	2,3ft	4,7ft	6,9ft	9,3ft	11,6ft	17,4ft	23,2ft	34,8ft	46,4ft	58ft	69,6ft	92,8ft	116ft

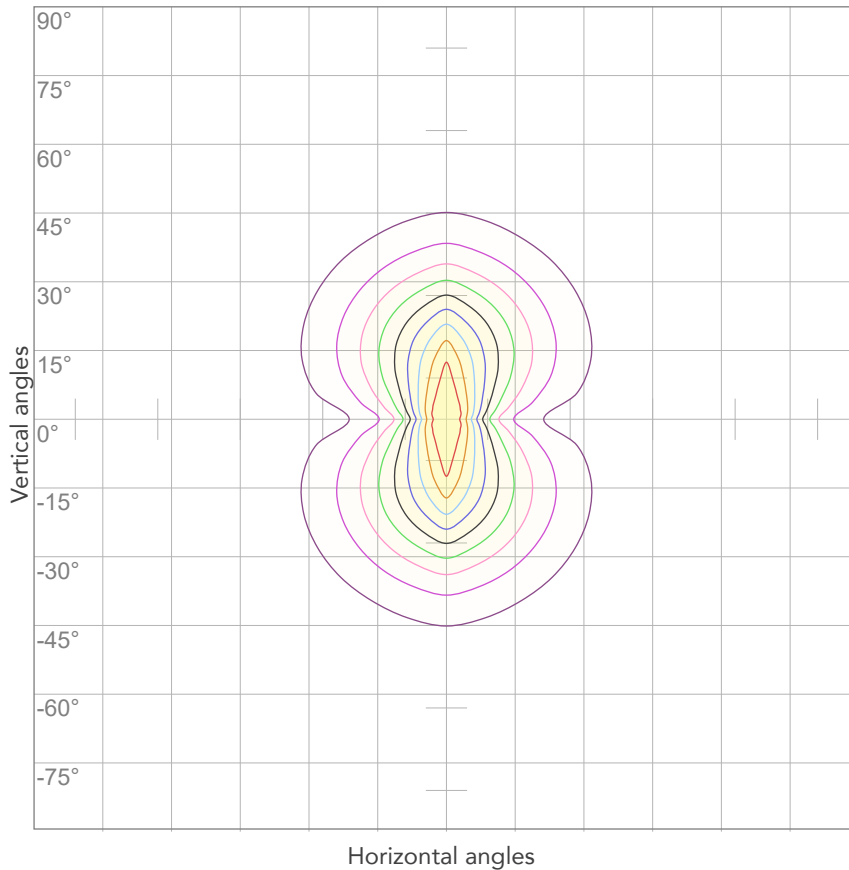
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,079A	12,2W	51lm/W

ISO CANDELA DIAGRAM



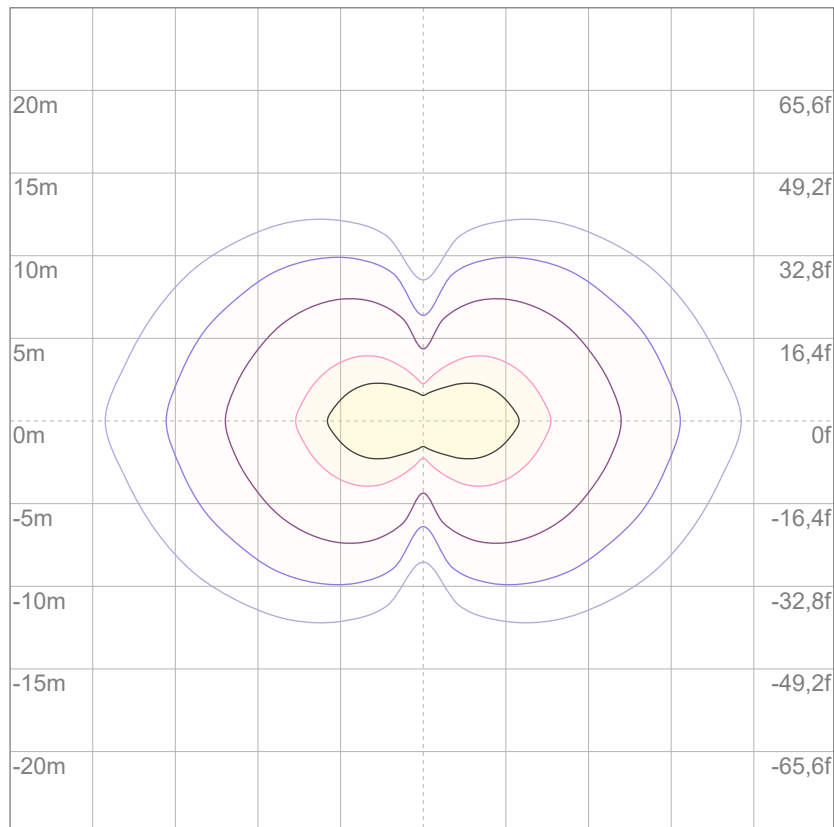
10%	95 cd
20%	190 cd
30%	285 cd
40%	380 cd
50%	475 cd
60%	570 cd
70%	664 cd
80%	759 cd

Conditions:

Number of c-planes: 4

Candela at center: 949 cd

ISO LUX DIAGRAM



3%	0,285 lx
5%	0,475 lx
10%	0,949 lx
30%	2,85 lx
50%	4,75 lx

Conditions:

Number of c-planes: 4

Lux at center: 9,49 lx

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

Total lumen output:

488 lm

Peak candela output:

517 cd

Light quality:

CRI: 85,0

Color temperature:

3055 K



PRODUCT NAME:

ARCSHINEM9FC

MEASURAMENT CONDITIONS:

Beam angle:

8°+Filter 30°x60°

Target:

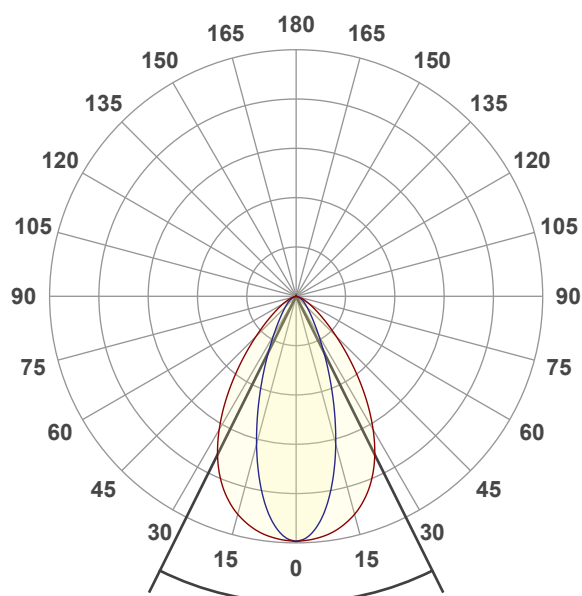
White

Operator:

Paolo Carvone

Date and time:

08/07/2022 15:25:31

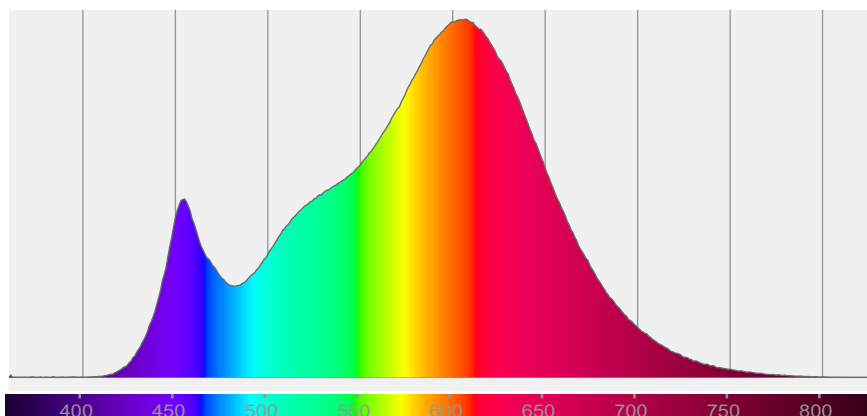


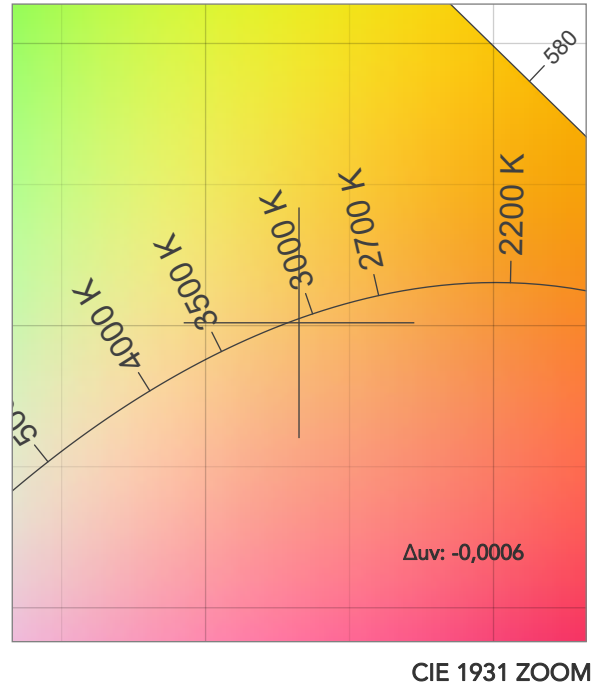
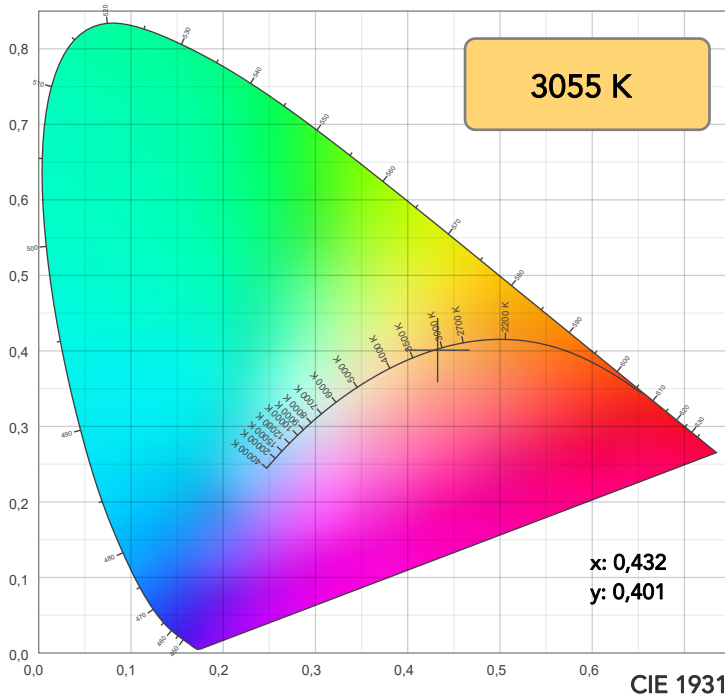
Beam angle 50%: 52,8°

Field angle 10%: 92,4°

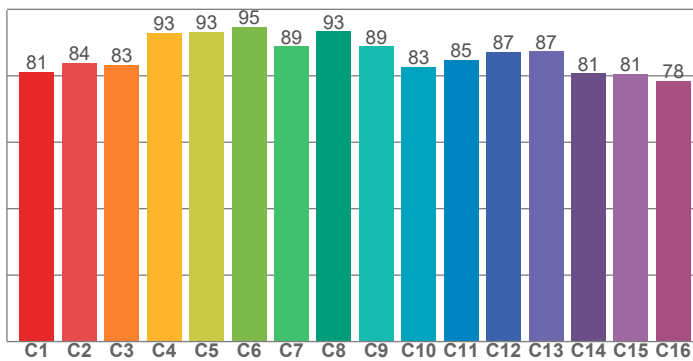
Cut off angle 2.5%: 129,5°

Spectra

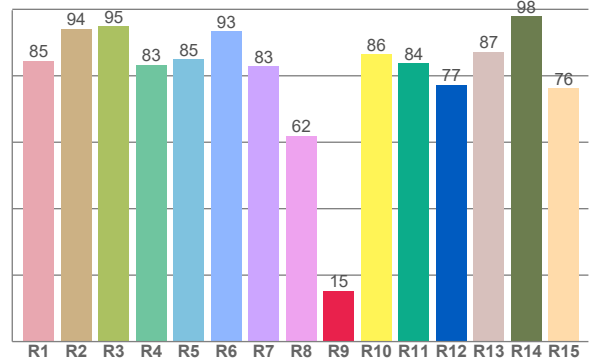




TM30: 86,6



CRI: 85,0 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,5	94,1	94,9	83,4	85,0	93,4	82,9	62,0	15,3	86,5	83,8	77,3	87,2	98,0	76,3

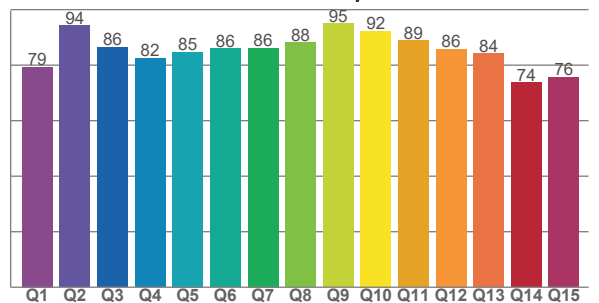
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,2	83,8	83,4	92,9	93,2	94,7	88,8	93,3	88,8	82,6	84,8	87,2	87,4	80,7	80,6	78,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,3	94,3	86,4	82,5	84,7	86,0	86,2	88,1	95,0	92,2	88,8	85,8	84,2	73,7	75,6

CQS: 84,2



COLOR PARAMETERS

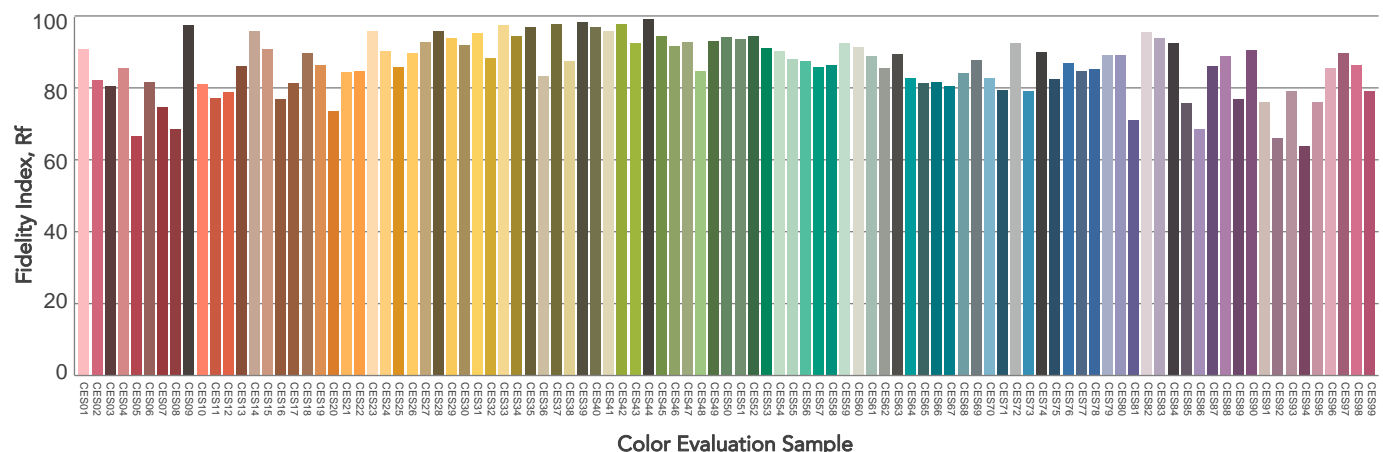
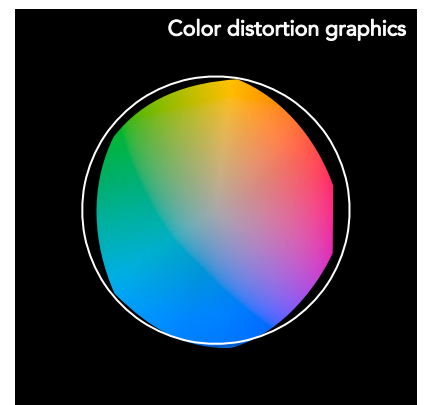
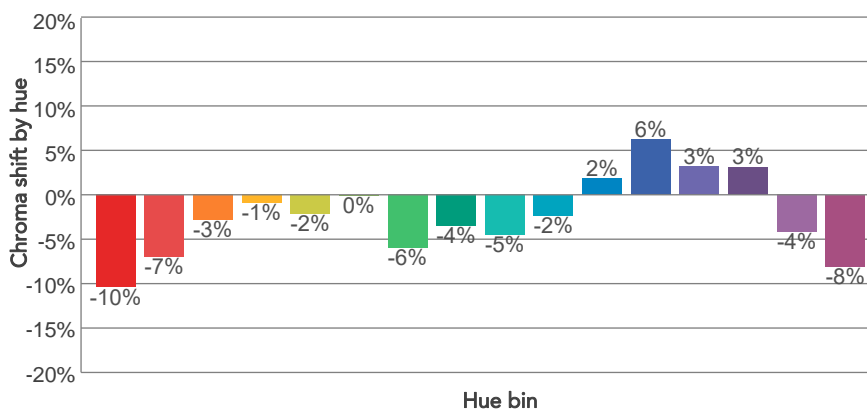
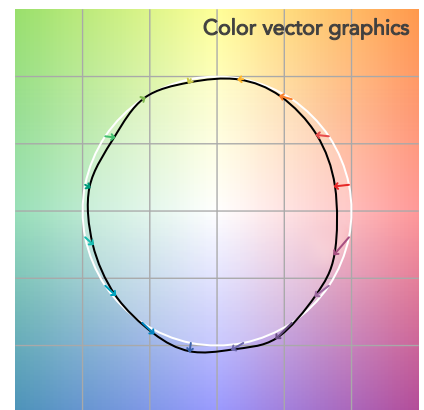
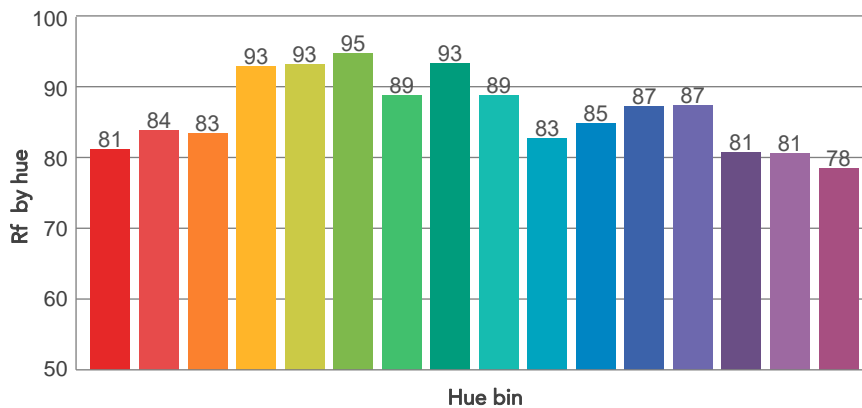
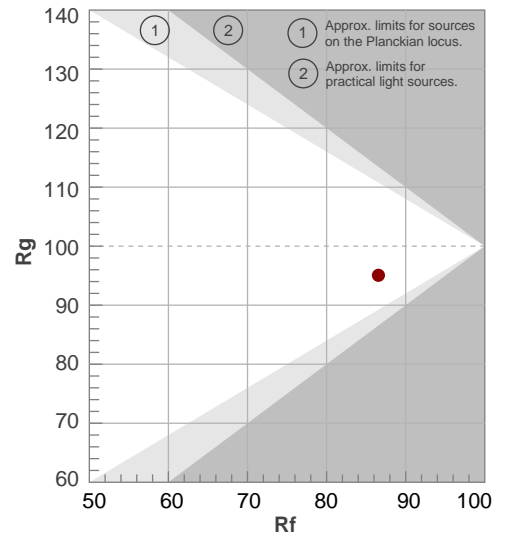
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3055 K	85,0	15,3	86,6	95,1	84,2	73	0,432	0,401	-0,0006

TM30 DETAILS

Rf 86,6
Fidelity index Rf

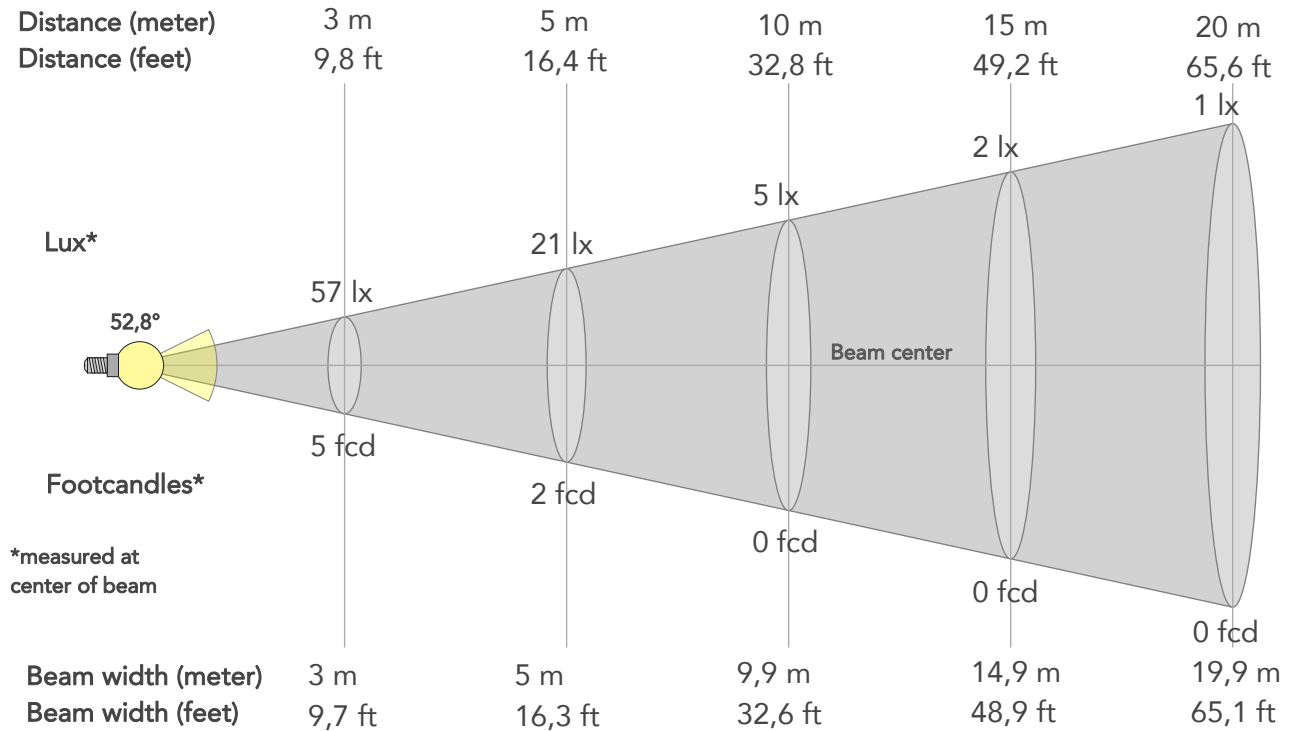
Rg 95,1
Gammut index

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



BEAM DETAILS

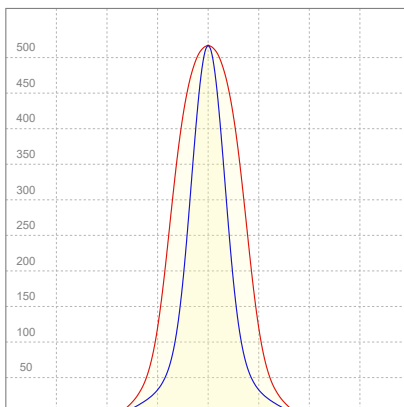
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,8°	92,4°	129,5°	96,2%	84,7%



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	517lx	129lx	57lx	32lx	21lx	9lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	48fcd	12fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,4m	9,9m	14,9m	19,9m	24,8m	29,8m	39,7m	49,7m
Beam wid.	3,3ft	6,6ft	9,7ft	13ft	16,3ft	24,4ft	32,6ft	48,9ft	65,1ft	81,4ft	97,7ft	130,3ft	162,9ft

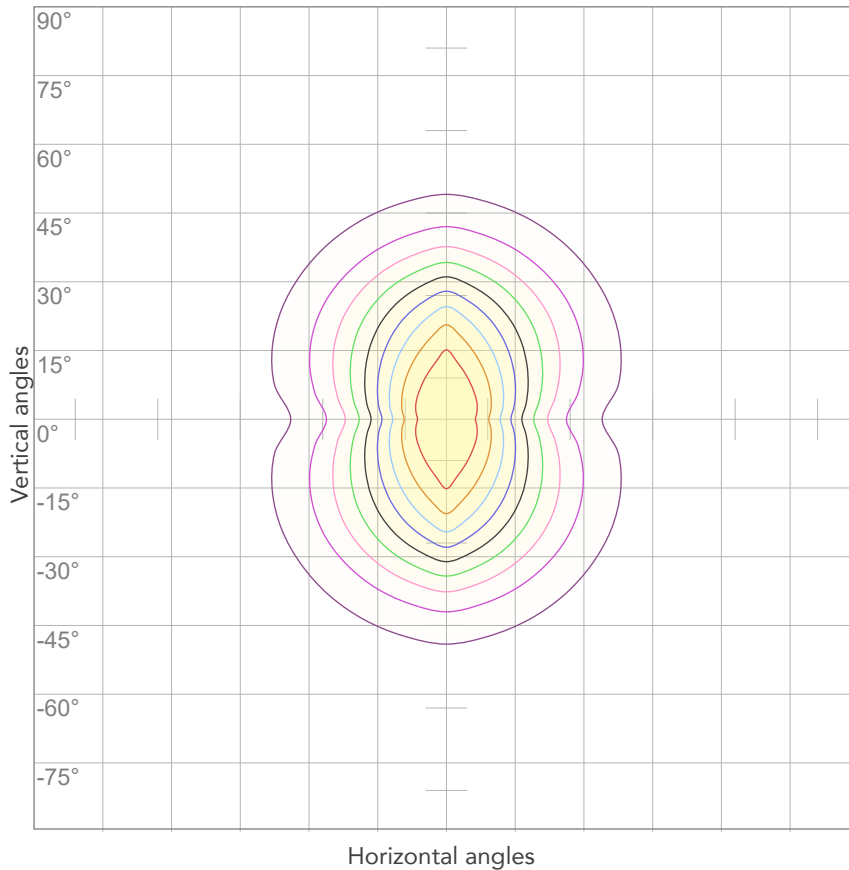
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,078A	12,5W	39lm/W

ISO CANDELA DIAGRAM



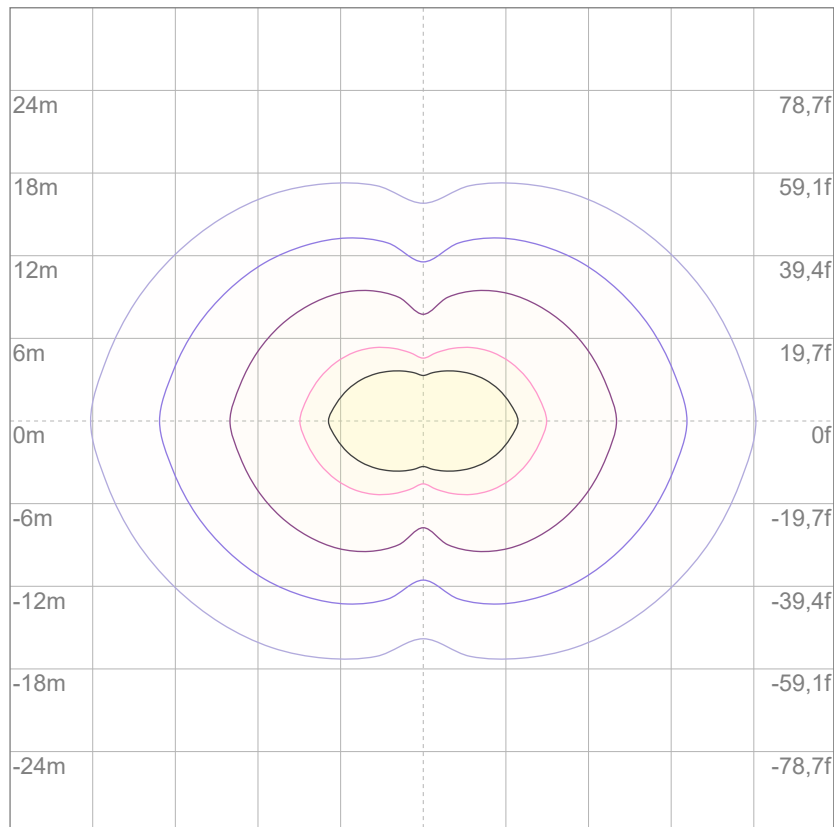
10%	52 cd
20%	103 cd
30%	155 cd
40%	207 cd
50%	258 cd
60%	310 cd
70%	362 cd
80%	413 cd

Conditions:

Number of c-planes: 4

Candela at center: 517 cd

ISO LUX DIAGRAM



3%	0,155 lx
5%	0,258 lx
10%	0,517 lx
30%	1,55 lx
50%	2,58 lx

Conditions:

Number of c-planes: 4

Lux at center: 5,17 lx

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