

Photometric Test Report



ARENACOB4FC

4X75W IP65 multifunctional full colour
LED blinder

CONTENTS

Table of contents	2
Testing process	3
Color preset Full on	
Standard Optic	4
Color preset Red	
Standard Optic	7
Color preset Green	
Standard Optic	10
Color preset Blue	
Standard Optic	13
Color preset White	
Standard Optic	16
Color preset 3000K	
Standard Optic	19
Color preset 4000K	
Standard Optic	24
Color preset 5000K	
Standard Optic	29
Color preset 6000K	
Standard Optic	34

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:

5324 lm

Peak candela output:

20895 cd

PRODUCT NAME:

ARENACON4FC

MEASUREMENT CONDITIONS:

Beam angle:

Native Lens

Target:

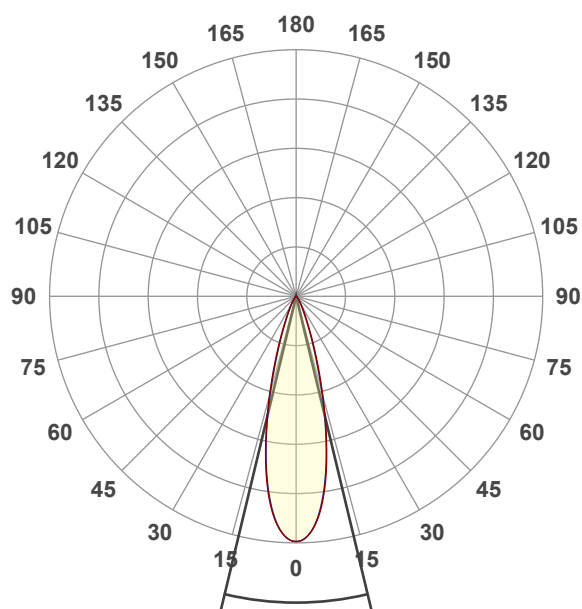
Full On

Operator:

Paolo Carvone

Date and time:

01/03/2022 11:04:40

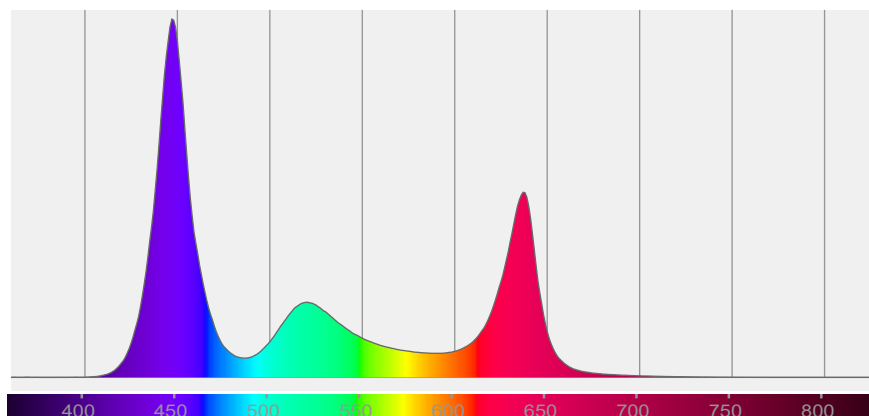


Beam angle 50%: 27°

Field angle 10%: 47,5°

Cut off angle 2.5%: 67,4°

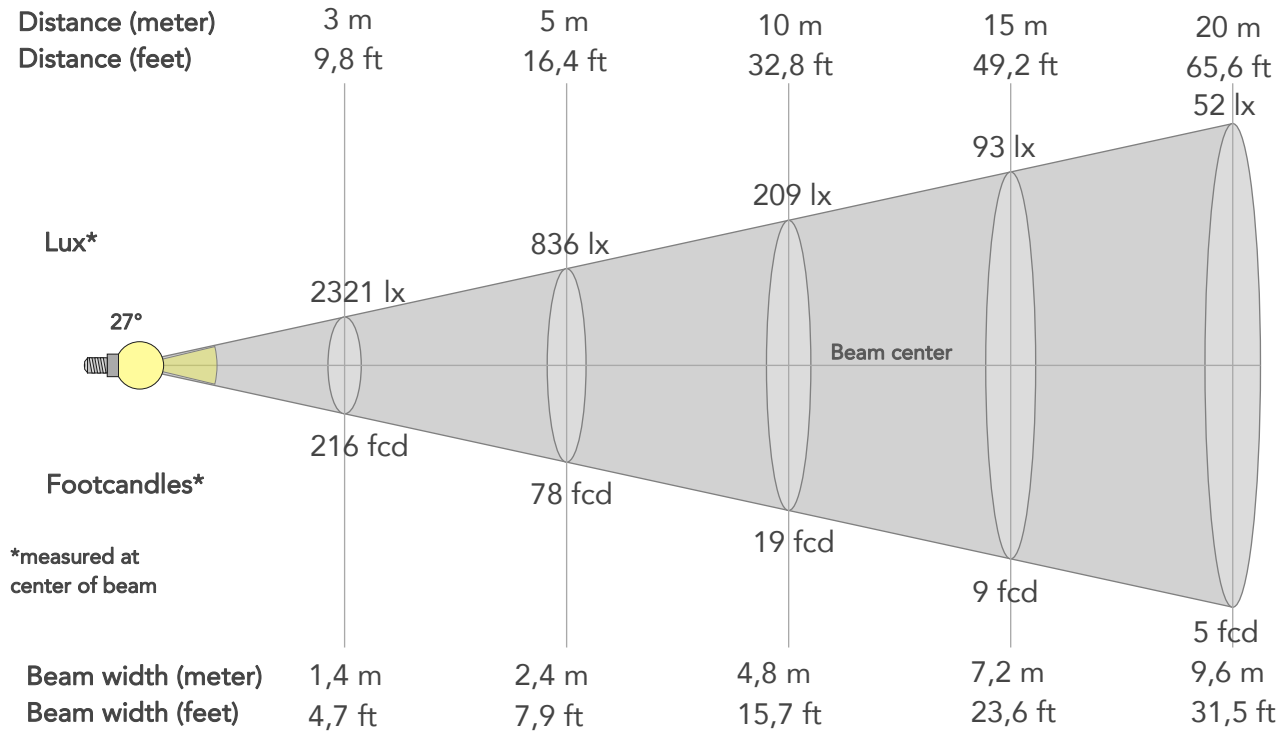
Spectra



BEAM DETAILS



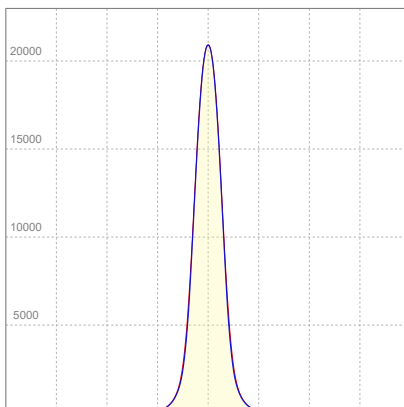
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27°	47,5°	67,4°	99,8%	98,6%



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	20893lx	5223lx	2321lx	1306lx	836lx	371lx	209lx	93lx	52lx	33lx	23lx	13lx	8lx
Footcand.	1941fcd	485fcd	216fcd	121fcd	78fcd	35fcd	19fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
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	15,7ft	23,6ft	31,5ft	39,4ft	47,2ft	63ft	78,7ft

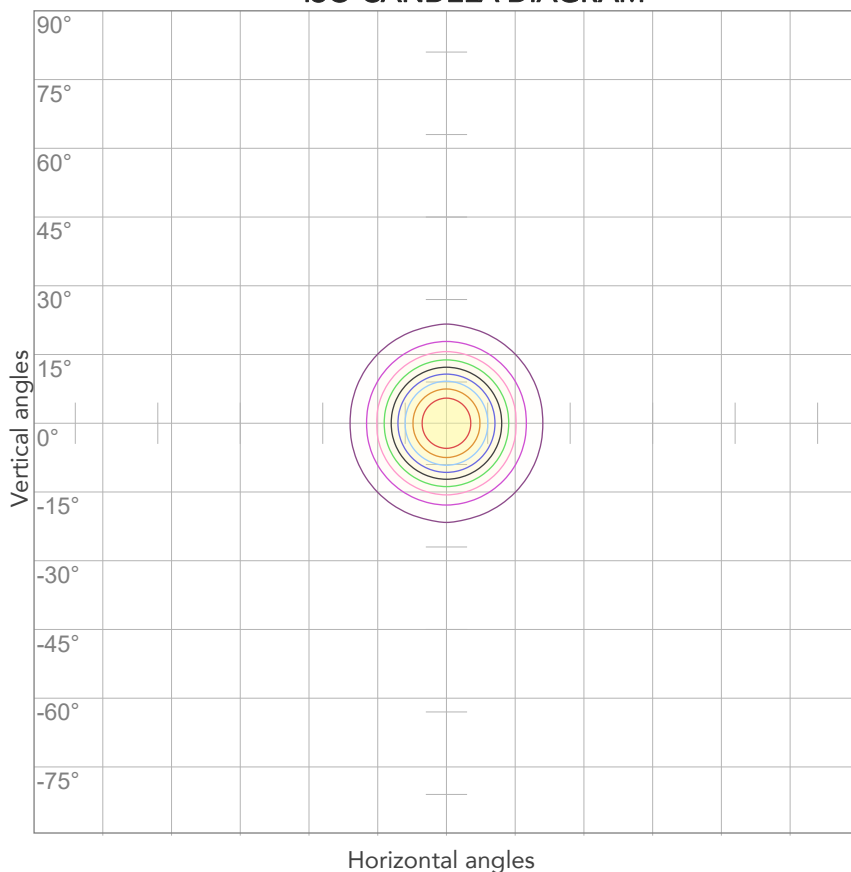
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	1,08A	230,7W	23lm/W
Power FC			
0,95			

ISO CANDELA DIAGRAM



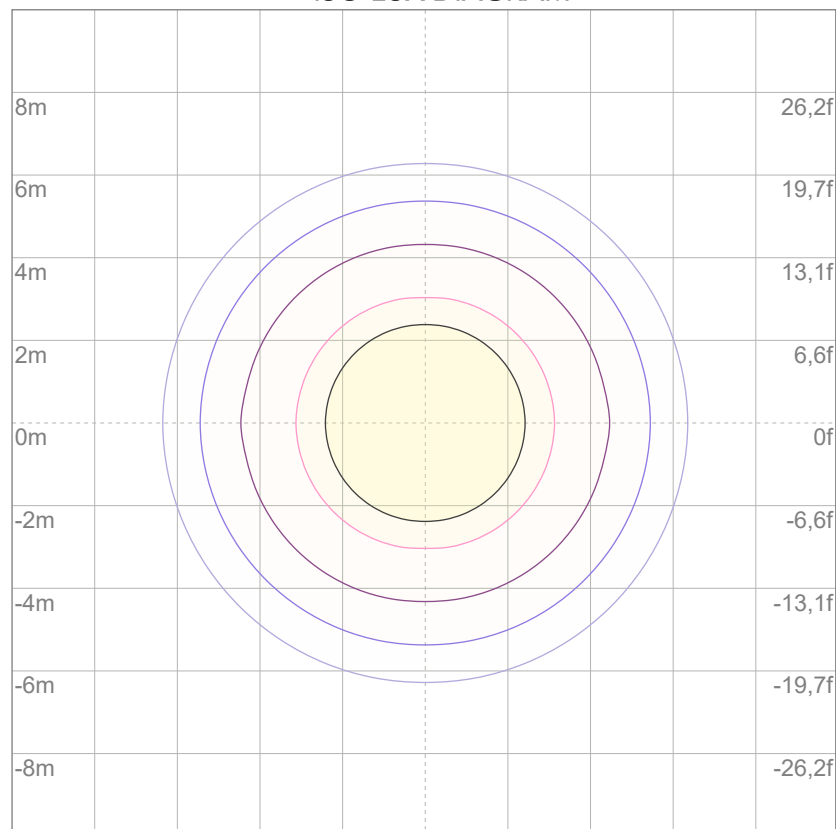
10%	2089 cd
20%	4179 cd
30%	6268 cd
40%	8357 cd
50%	10447 cd
60%	12536 cd
70%	14625 cd
80%	16715 cd

Conditions:

Number of c-planes: 4

Candela at center: 20893 cd

ISO LUX DIAGRAM



3%	6,27 lx
5%	10,4 lx
10%	20,9 lx
30%	62,7 lx
50%	104 lx

Conditions:

Number of c-planes: 4

Lux at center: 209 lx

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



Total lumen output:

1142 lm

Peak candela output:

4151 cd

PRODUCT NAME:

ARENA4FC

MEASUREMENT CONDITIONS:

Beam angle:

Native Lens

Target:

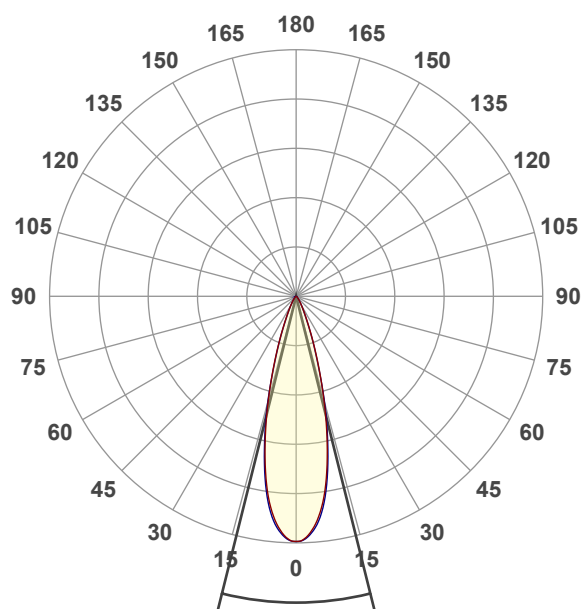
Red

Operator:

Paolo Carvone

Date and time:

01/03/2022 11:07:04

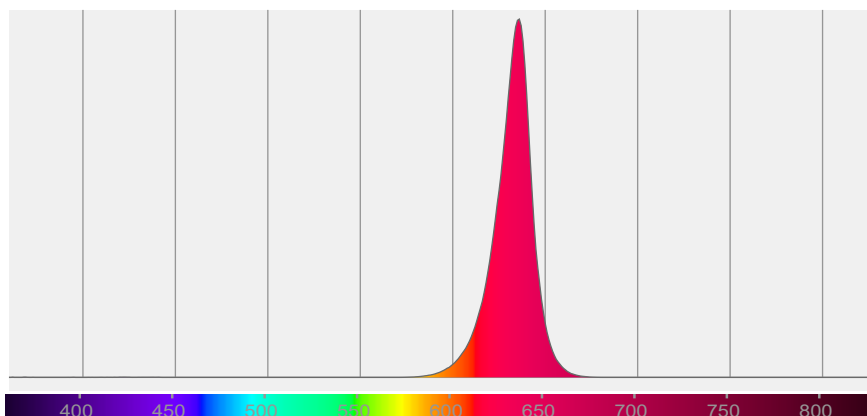


Beam angle 50%: 28°

Field angle 10%: 48,7°

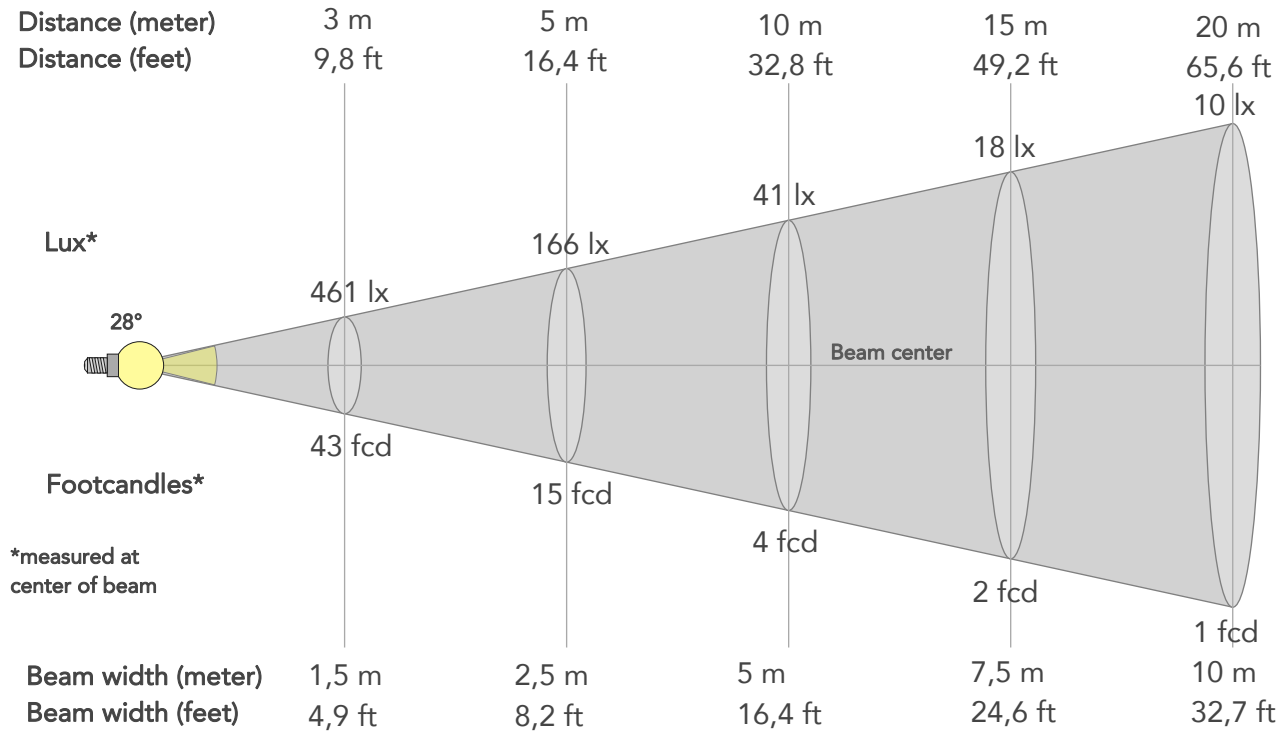
Cut off angle 2.5%: 69,3°

Spectra



BEAM DETAILS

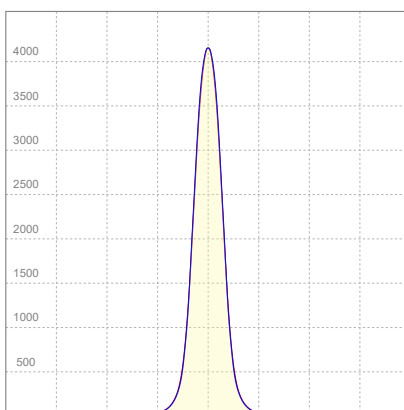
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28°	48,7°	69,3°	99,3%	97,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4149lx	1037lx	461lx	259lx	166lx	74lx	41lx	18lx	10lx	7lx	5lx	3lx	2lx
Footcand.	385fcd	96fcd	43fcd	24fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,5m	3,7m	5m	7,5m	10m	12,5m	15m	20m	25m
Beam wid.	1,6ft	3,3ft	4,9ft	6,5ft	8,2ft	12,3ft	16,4ft	24,6ft	32,7ft	40,9ft	49,1ft	65,5ft	81,9ft

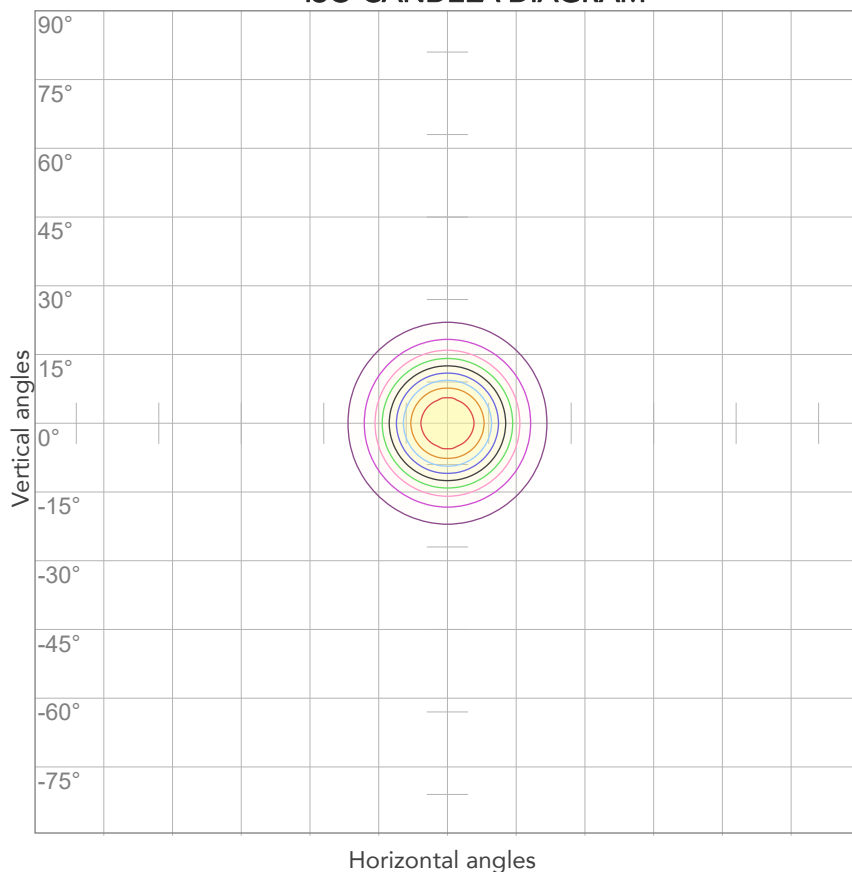
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,264A	50,0W	23lm/W
Power FC			
0,84			

ISO CANDELA DIAGRAM



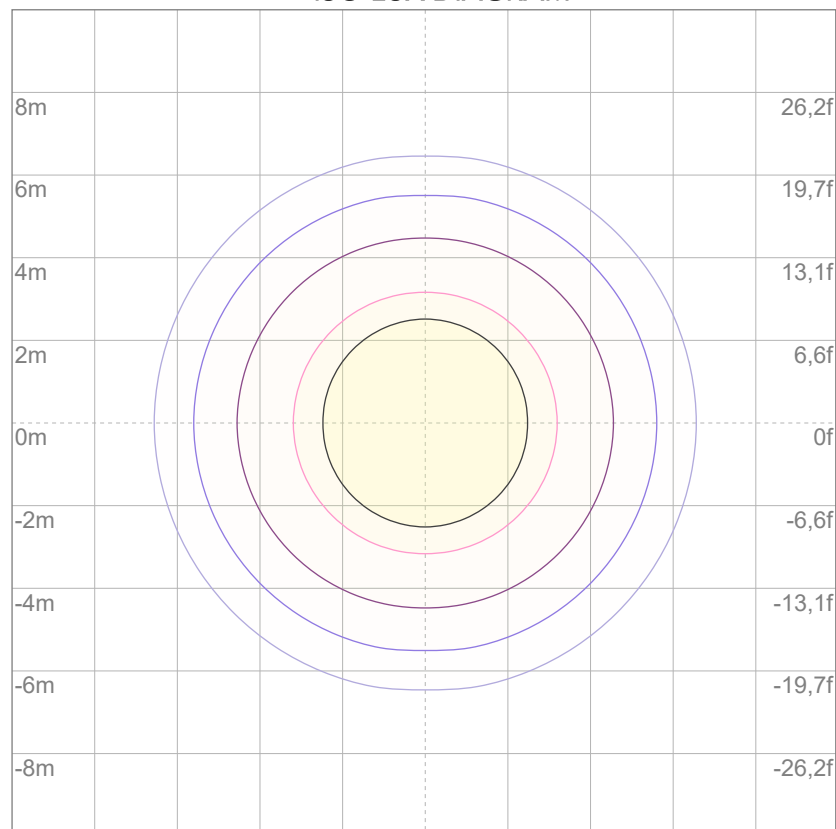
10%	415 cd
20%	830 cd
30%	1245 cd
40%	1660 cd
50%	2075 cd
60%	2489 cd
70%	2904 cd
80%	3319 cd

Conditions:

Number of c-planes: 4

Candela at center: 4149 cd

ISO LUX DIAGRAM



3%	1,24 lx
5%	2,07 lx
10%	4,15 lx
30%	12,4 lx
50%	20,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 41,5 lx

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



Total lumen output:

1797 lm

Peak candela output:

6757 cd

PRODUCT NAME:

ARENA4FC

MEASUREMENT CONDITIONS:

Beam angle:

Native Lens

Target:

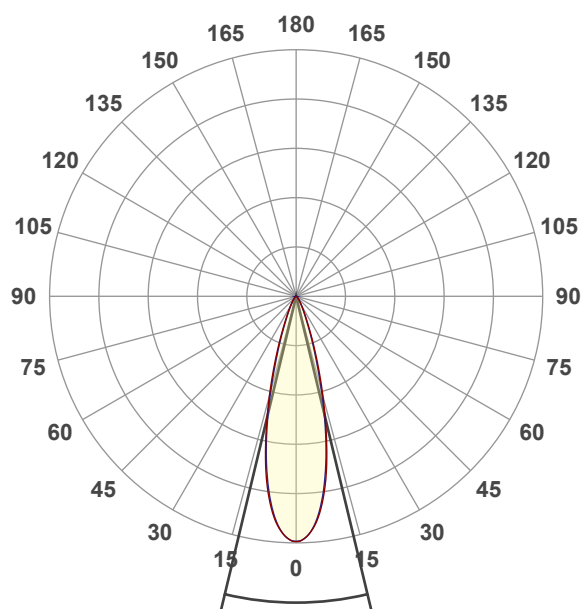
Green

Operator:

Paolo Carvone

Date and time:

01/03/2022 11:09:56

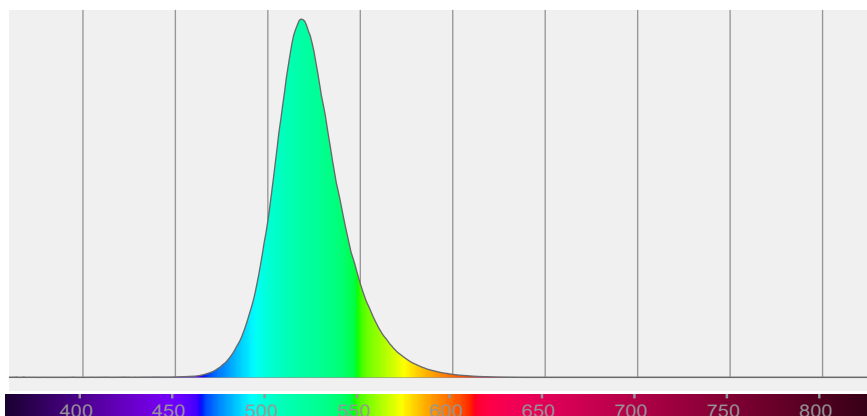


Beam angle 50%: 26,9°

Field angle 10%: 47,9°

Cut off angle 2.5%: 70,1°

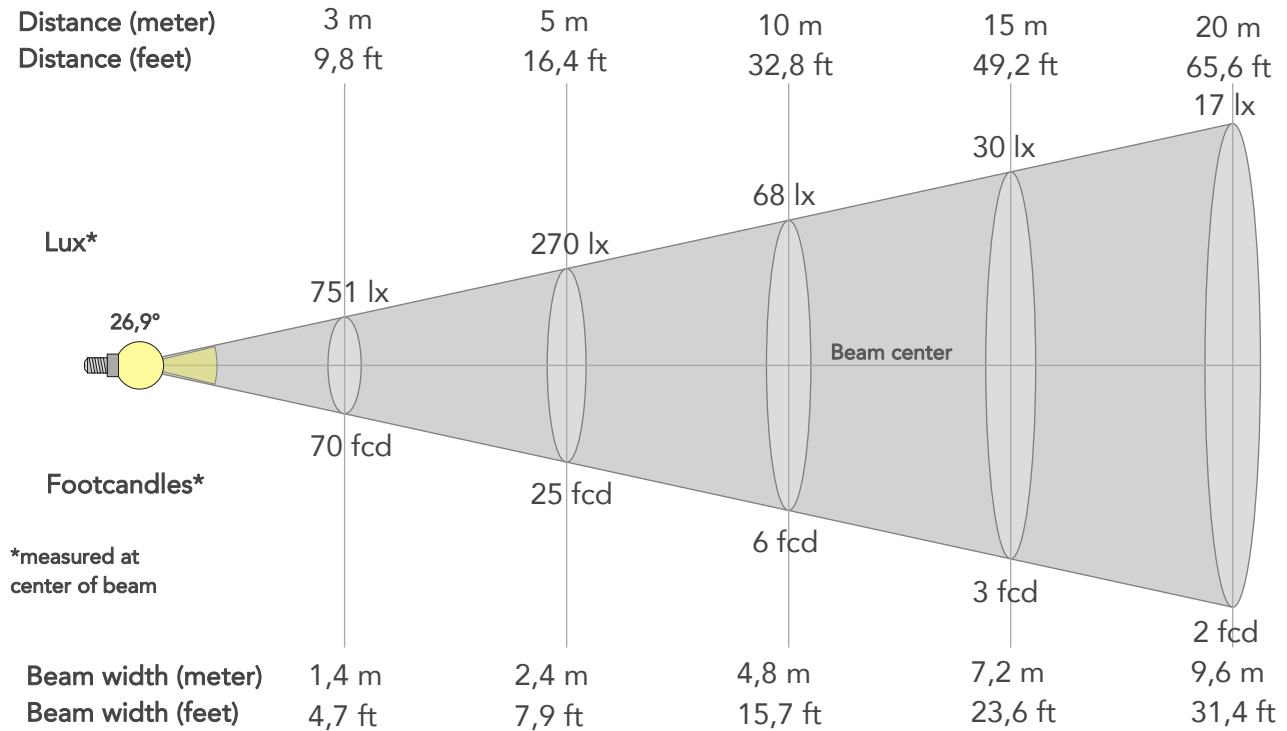
Spectra



BEAM DETAILS



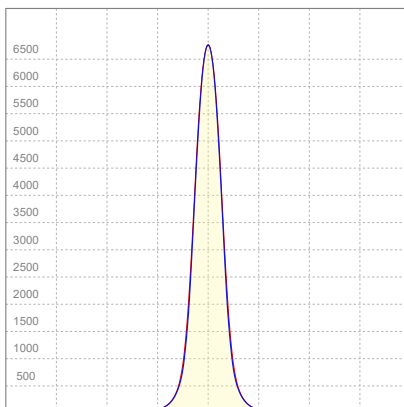
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,9°	47,9°	70,1°	99,1%	96,5%



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	6755lx	1689lx	751lx	422lx	270lx	120lx	68lx	30lx	17lx	11lx	8lx	4lx	3lx
Footcand.	628fcd	157fcd	70fcd	39fcd	25fcd	11fcd	6fcd	3fcd	2fcd	1fcd	1fcd	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	23,9m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,8ft	15,7ft	23,6ft	31,4ft	39,3ft	47,1ft	62,8ft	78,5ft

LINEAR DISTRIBUTION DIAGRAM

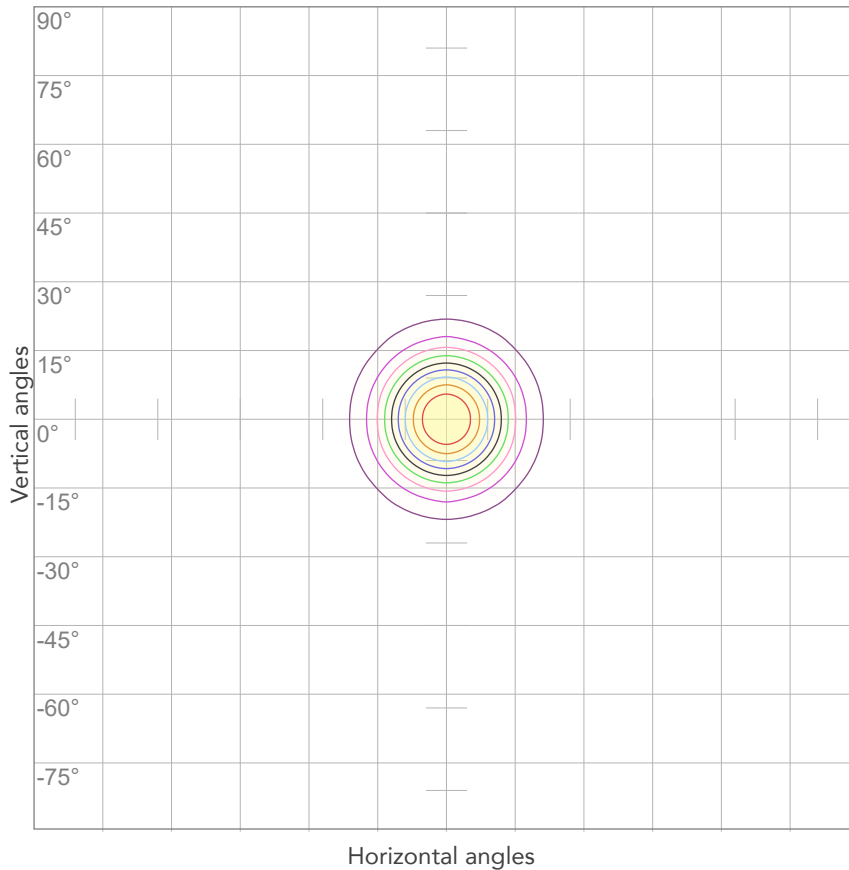


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,330A	65,0W	28lm/W

Power FC
0,88

ISO CANDELA DIAGRAM



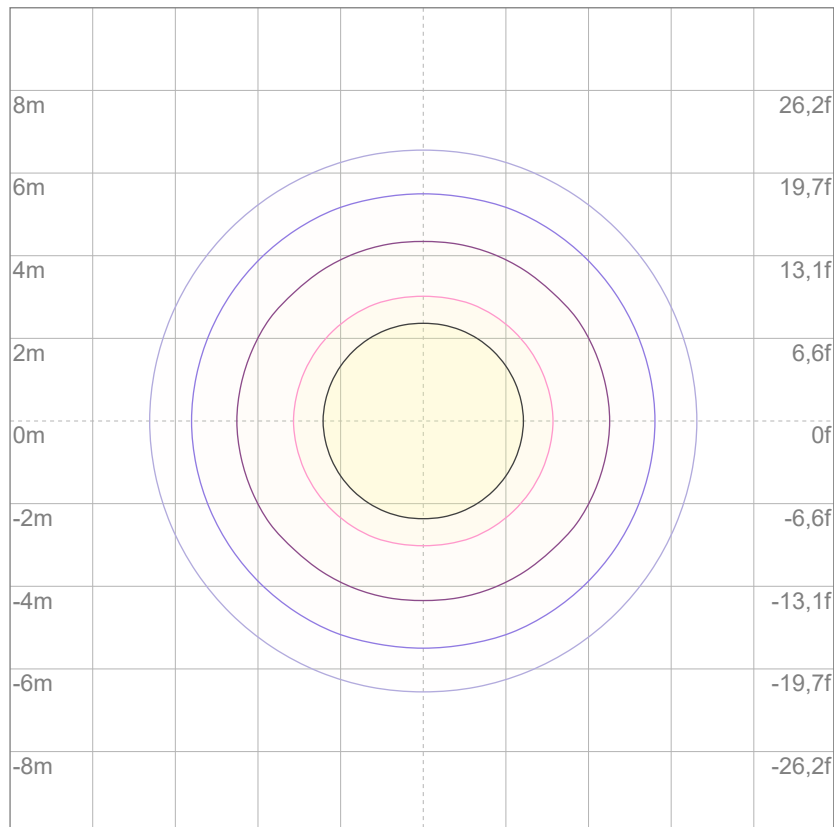
10%	676 cd
20%	1351 cd
30%	2027 cd
40%	2702 cd
50%	3378 cd
60%	4053 cd
70%	4729 cd
80%	5404 cd

Conditions:

Number of c-planes: 4

Candela at center: 6755 cd

ISO LUX DIAGRAM



3%	2,03 lx
5%	3,38 lx
10%	6,76 lx
30%	20,3 lx
50%	33,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 67,6 lx

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



Total lumen output:

388 lm

Peak candela output:

1408 cd

PRODUCT NAME:

ARENA4FC

MEASUREMENT CONDITIONS:

Beam angle:

Native Lens

Target:

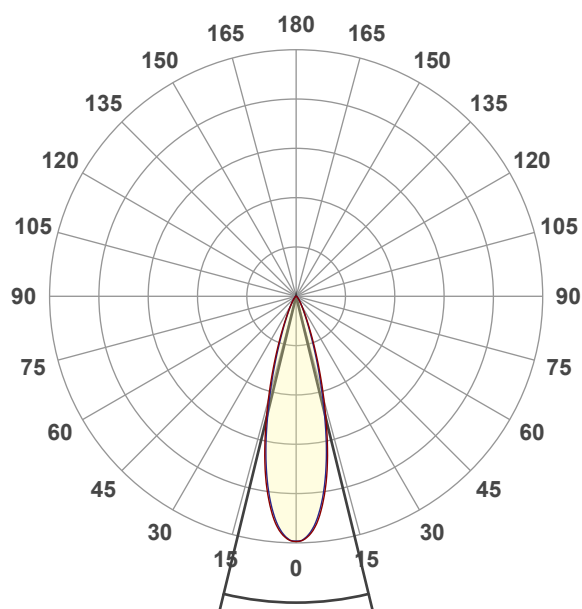
Blue

Operator:

Paolo Carvone

Date and time:

01/03/2022 11:24:18

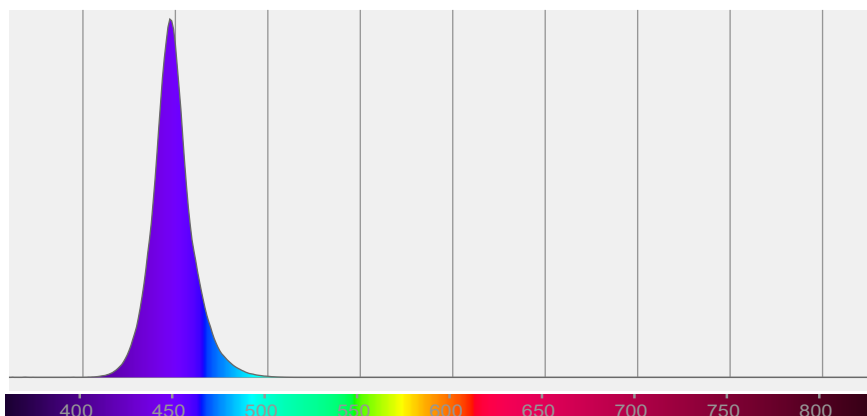


Beam angle 50%: 27,4°

Field angle 10%: 48,7°

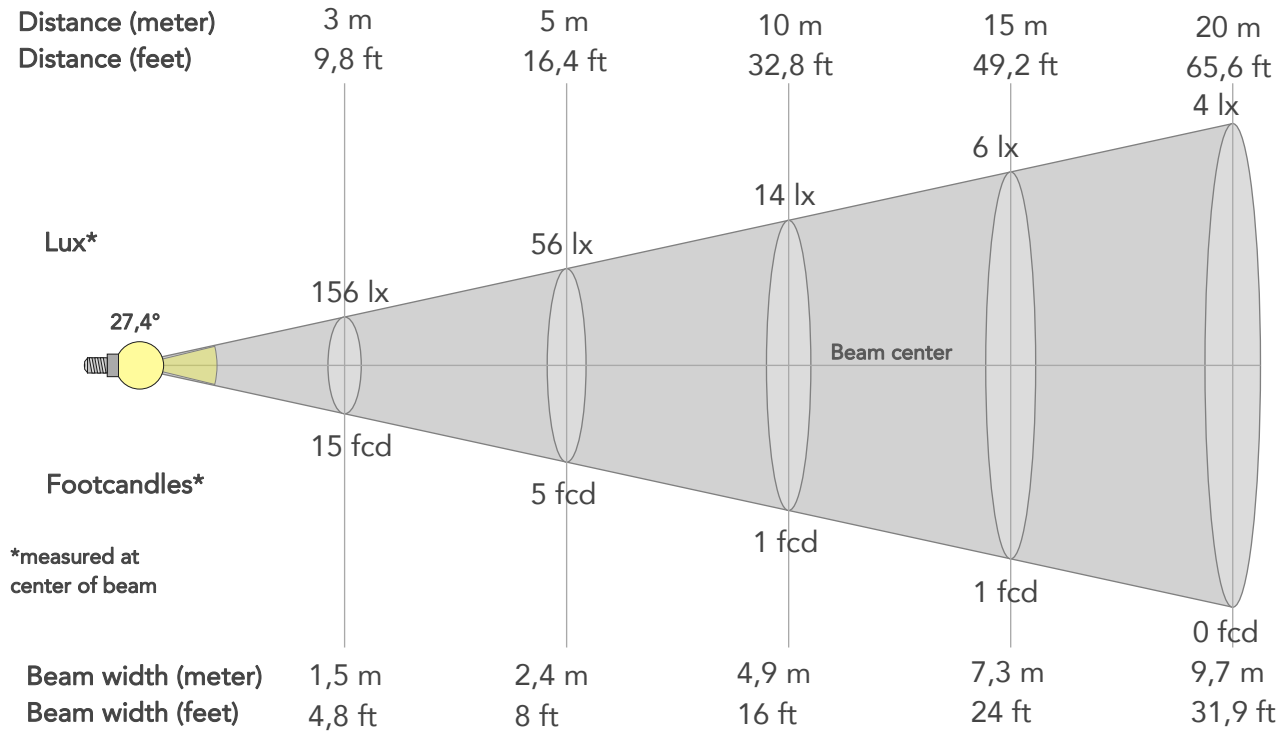
Cut off angle 2.5%: 70,8°

Spectra



BEAM DETAILS

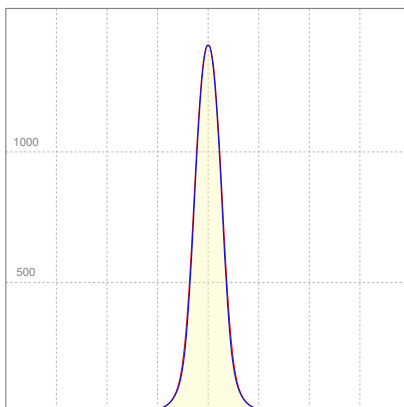
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,4°	48,7°	70,8°	98,7%	95,8%



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	1407lx	352lx	156lx	88lx	56lx	25lx	14lx	6lx	4lx	2lx	2lx	1lx	1lx
Footcand.	131fcd	33fcd	15fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	1,9m	2,4m	3,7m	4,9m	7,3m	9,7m	12,2m	14,6m	19,5m	24,3m
Beam wid.	1,6ft	3,2ft	4,8ft	6,4ft	8ft	12ft	16ft	24ft	31,9ft	39,9ft	47,9ft	63,9ft	79,9ft

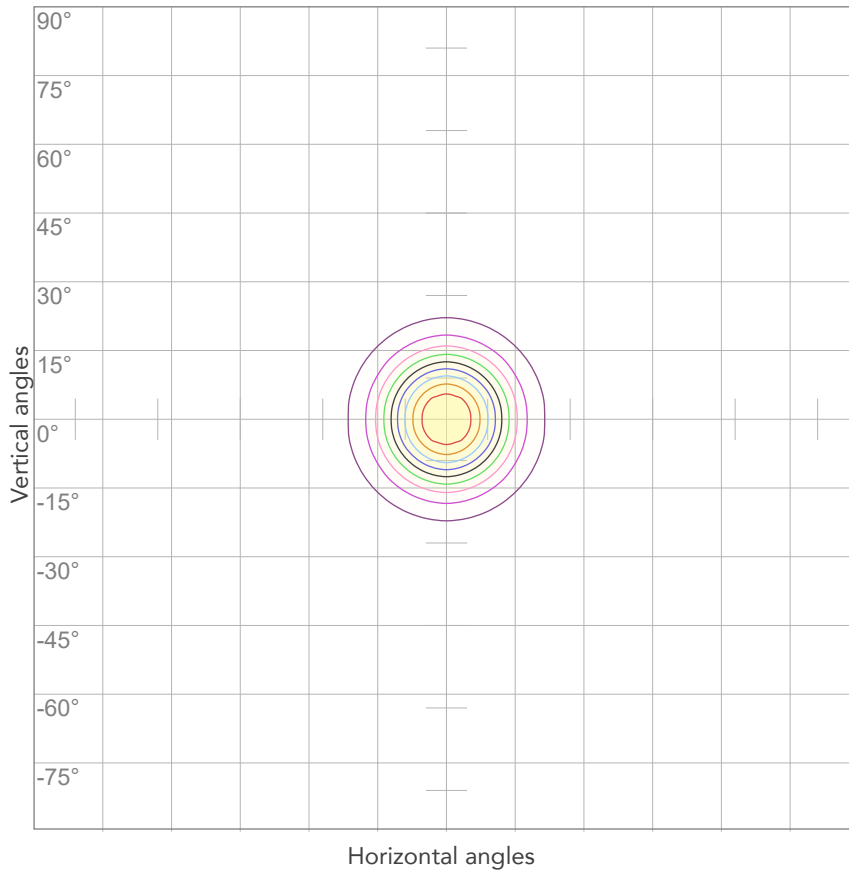
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,323A	63,7W	6lm/W
Power FC			
0,87			

ISO CANDELA DIAGRAM



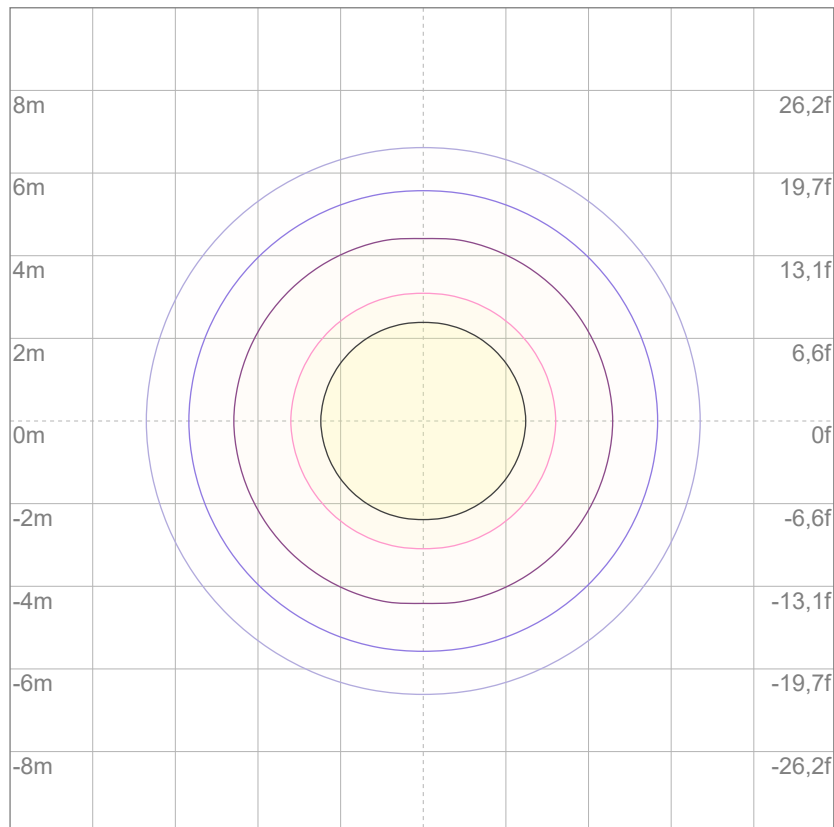
10%	141 cd
20%	281 cd
30%	422 cd
40%	563 cd
50%	703 cd
60%	844 cd
70%	985 cd
80%	1125 cd

Conditions:

Number of c-planes: 4

Candela at center: 1407 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,422 lx
5%	0,703 lx
10%	1,41 lx
30%	4,22 lx
50%	7,03 lx

Conditions:

Number of c-planes: 4

Lux at center: 14,1 lx

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



Total lumen output:

2337 lm

Peak candela output:

9025 cd

PRODUCT NAME:

ARENA4FC

MEASUREMENT CONDITIONS:

Beam angle:

Native Lens

Target:

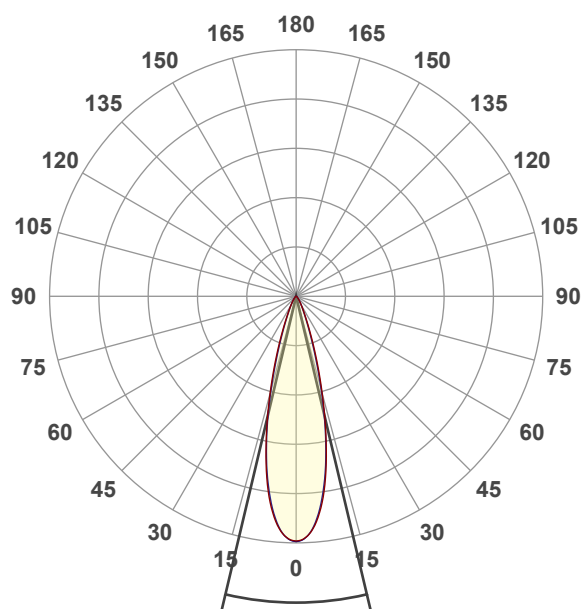
White

Operator:

Paolo Carvone

Date and time:

01/03/2022 11:27:33

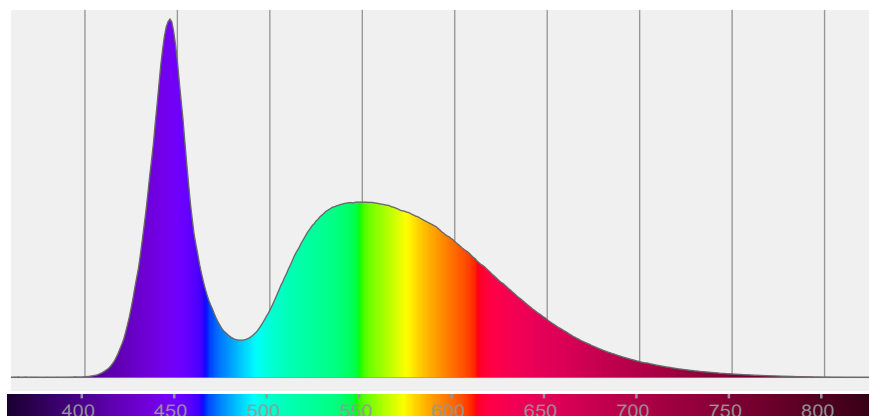


Beam angle 50%: 26,7°

Field angle 10%: 47,1°

Cut off angle 2.5%: 69,1°

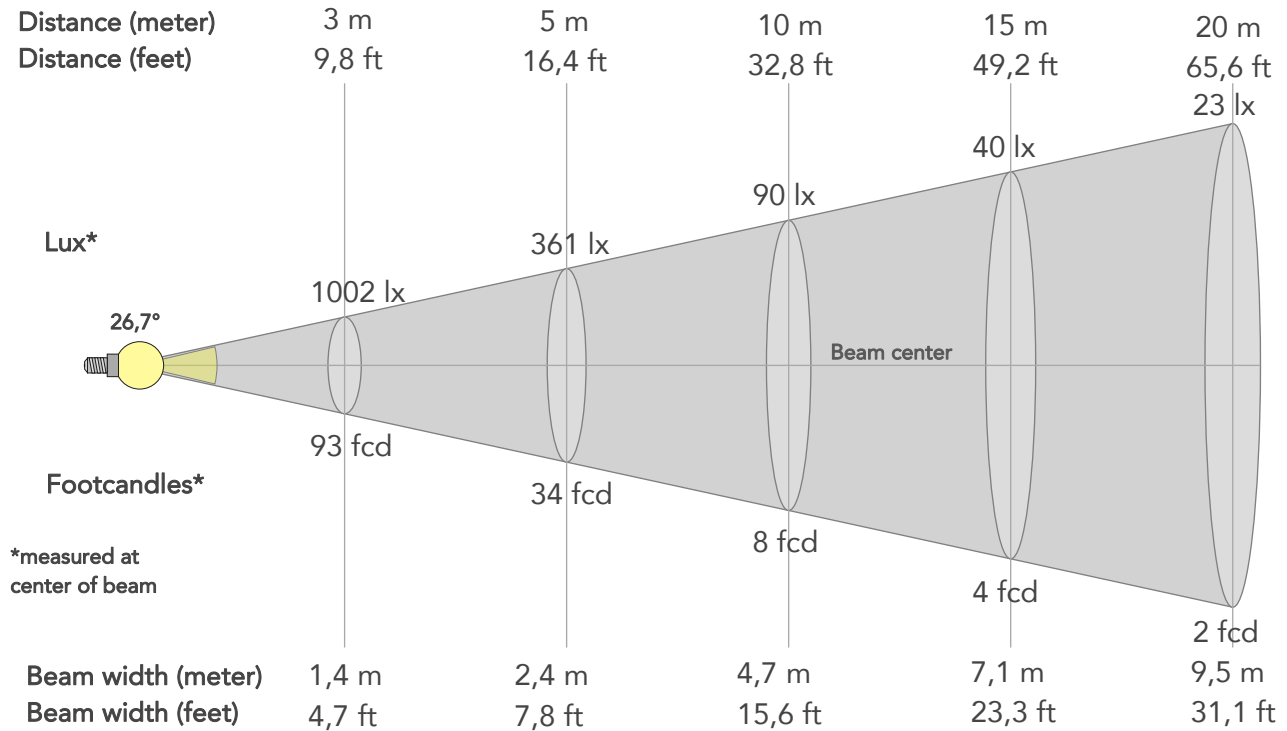
Spectra



BEAM DETAILS



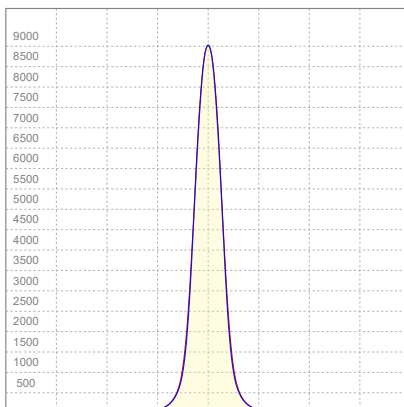
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,7°	47,1°	69,1°	99,3%	96,8%



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	9016lx	2254lx	1002lx	564lx	361lx	160lx	90lx	40lx	23lx	14lx	10lx	6lx	4lx
Footcand.	838fcd	209fcd	93fcd	52fcd	34fcd	15fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,9m	2,4m	3,6m	4,7m	7,1m	9,5m	11,9m	14,2m	19m	23,7m
Beam wid.	1,6ft	3,1ft	4,7ft	6,2ft	7,8ft	11,7ft	15,6ft	23,3ft	31,1ft	38,9ft	46,7ft	62,3ft	77,8ft

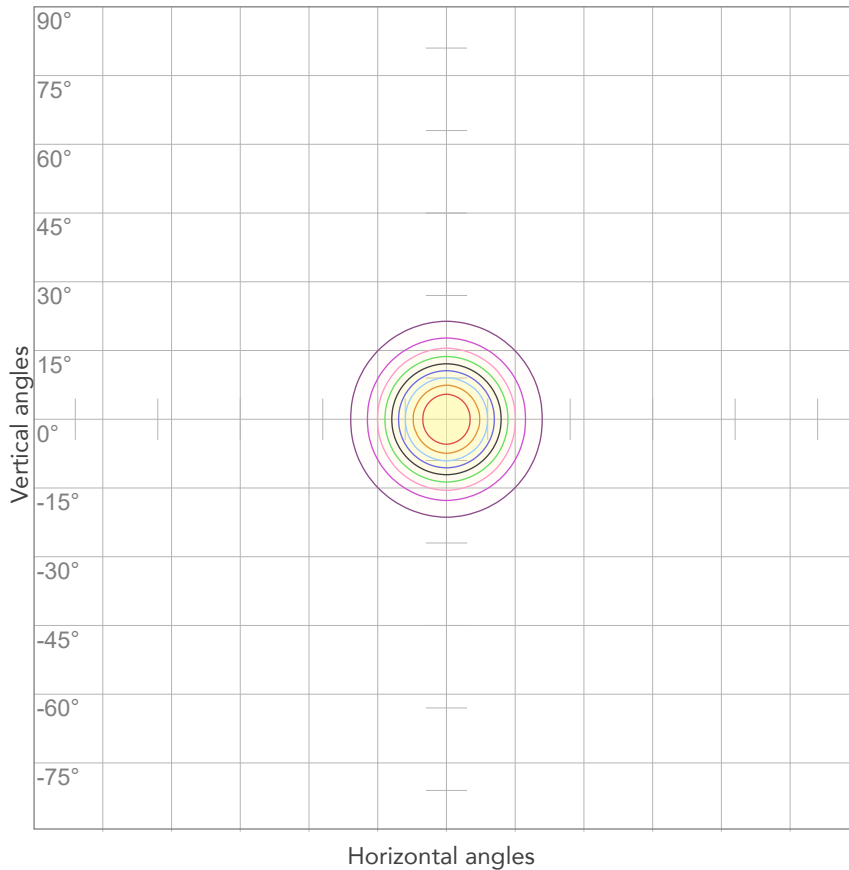
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,320A	62,9W	37lm/W
Power FC			
0,87			

ISO CANDELA DIAGRAM



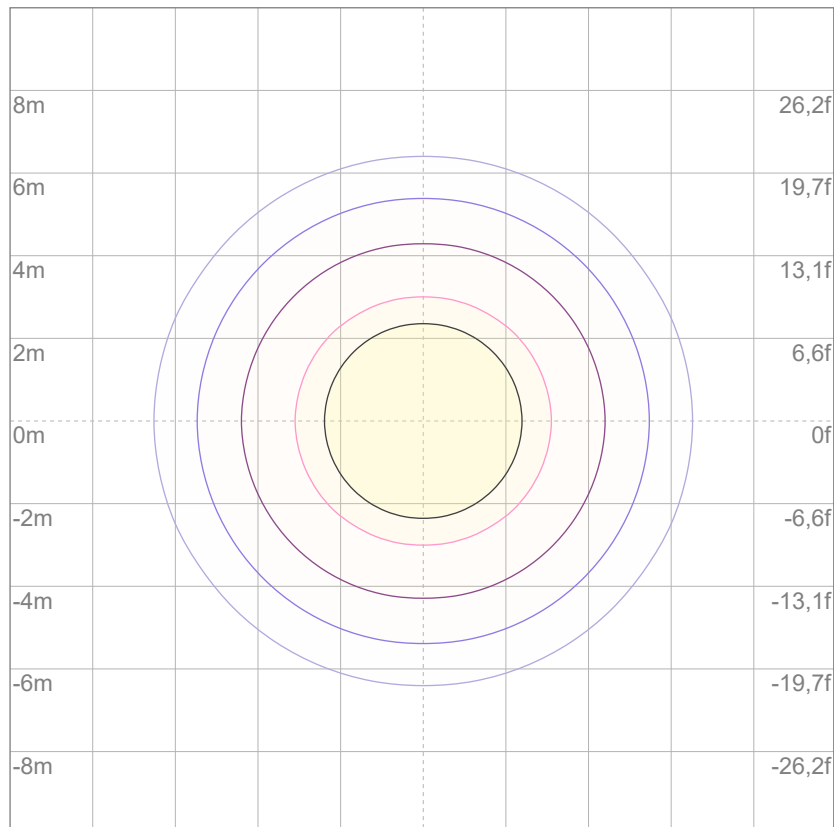
10%	902 cd
20%	1803 cd
30%	2705 cd
40%	3607 cd
50%	4508 cd
60%	5410 cd
70%	6311 cd
80%	7213 cd

Conditions:

Number of c-planes: 4

Candela at center: 9016 cd

ISO LUX DIAGRAM



3%	2,70 lx
5%	4,51 lx
10%	9,02 lx
30%	27,0 lx
50%	45,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 90,2 lx

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



Total lumen output:

1402 lm

Peak candela output:

5532 cd

Light quality:

CRI: 40,5

Color temperature:

3195 K

PRODUCT NAME:

ARENACON4FC

MEASURAMENT CONDITIONS:

Beam angle:

Native Lens

Target:

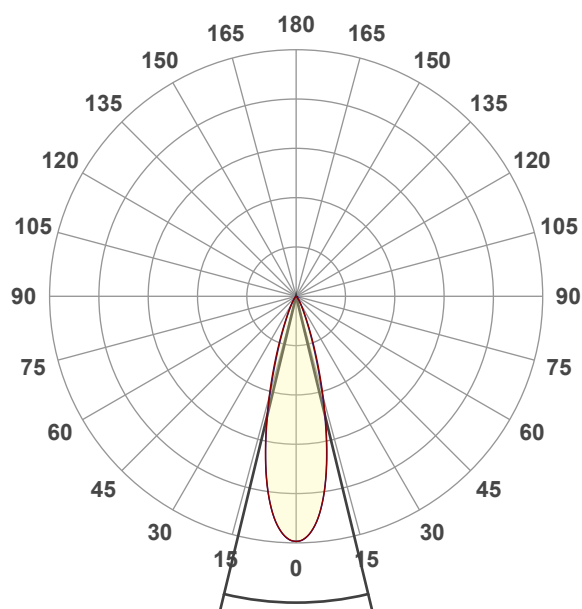
3000K

Operator:

Paolo Carvone

Date and time:

02/03/2022 09:44:28

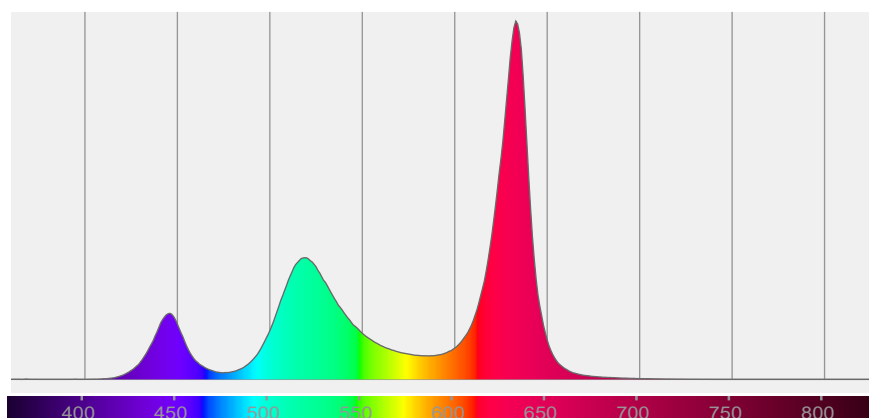


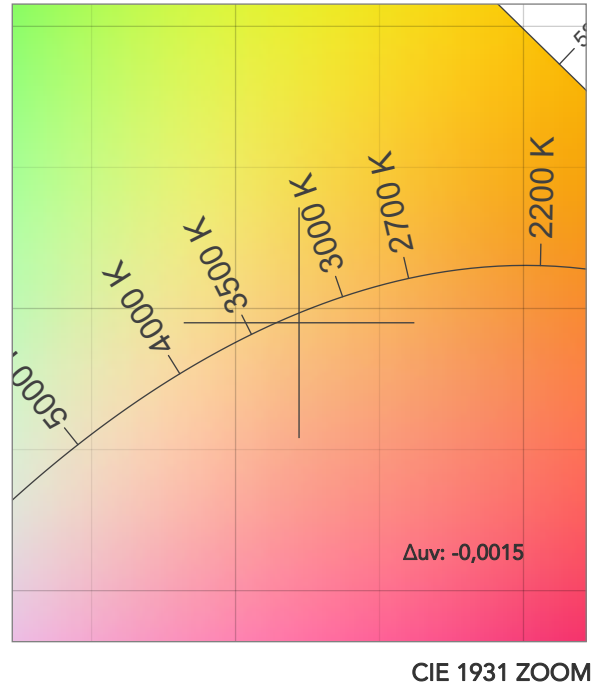
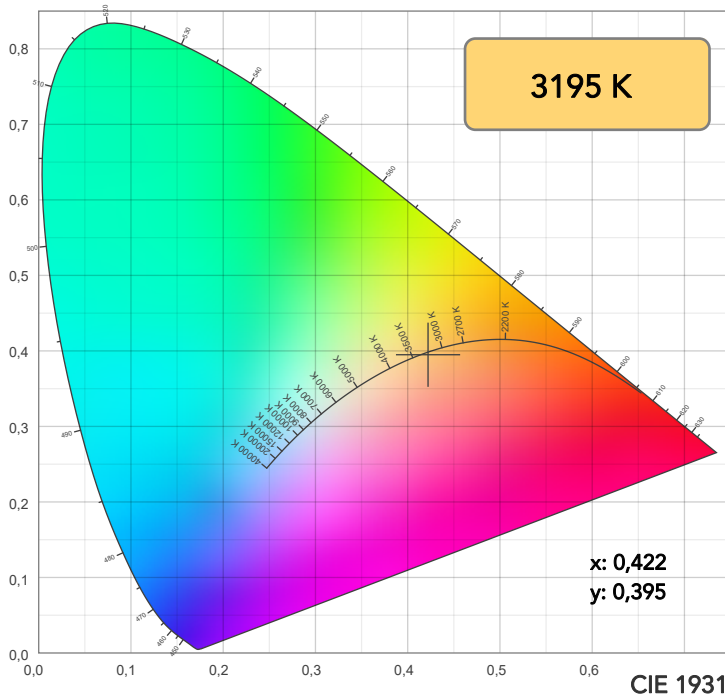
Beam angle 50%: 27,2°

Field angle 10%: 47,5°

Cut off angle 2.5%: 66°

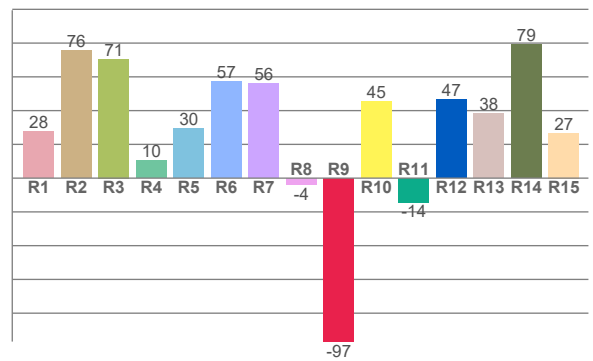
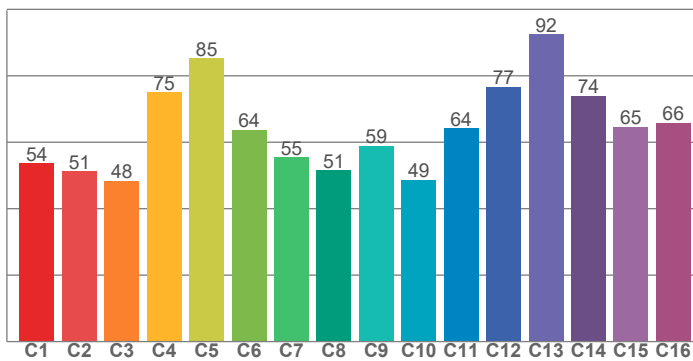
Spectra





TM30: 64,3

CRI: 40,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
27,8	75,7	70,6	10,4	29,6	57,4	56,2	-4,0	-96,8	45,4	-14,3	46,7	38,5	79,2	26,8

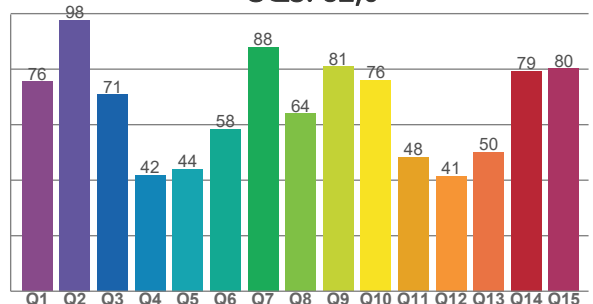
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
53,6	51,2	48,4	75,0	85,2	63,7	55,5	51,5	58,8	48,6	64,2	76,7	92,5	73,9	64,5	65,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75,5	97,7	70,8	41,8	44,1	58,4	87,9	64,0	80,9	76,1	48,3	41,4	50,1	79,3	80,2

CQS: 62,0



COLOR PARAMETERS

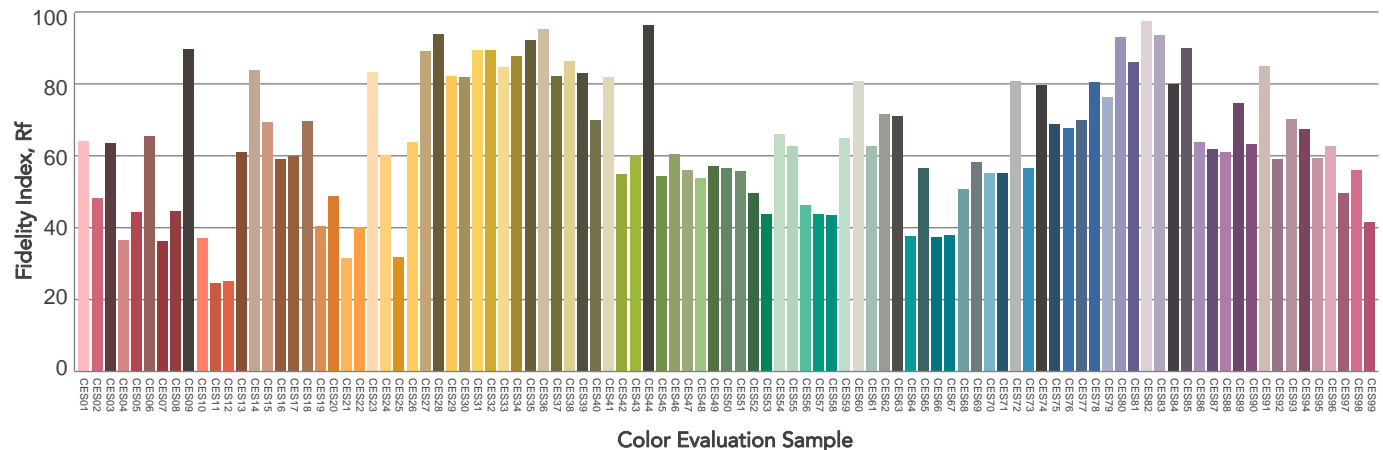
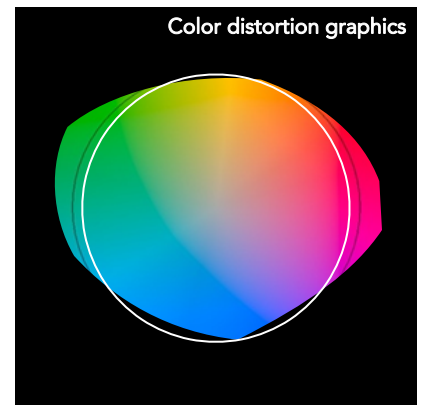
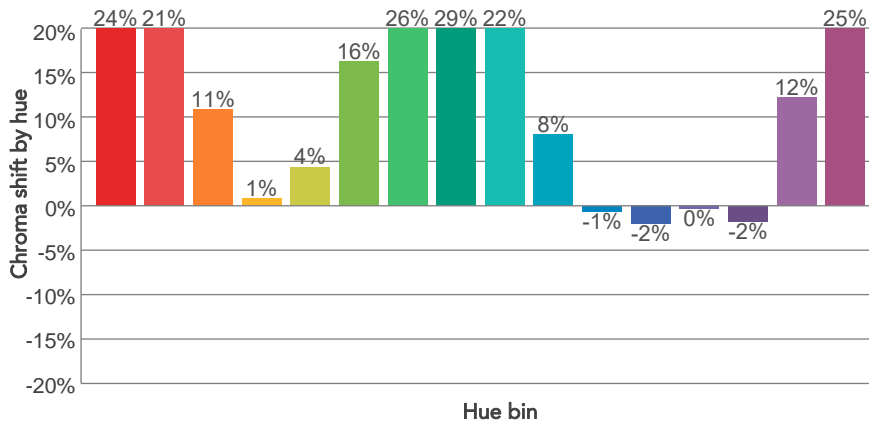
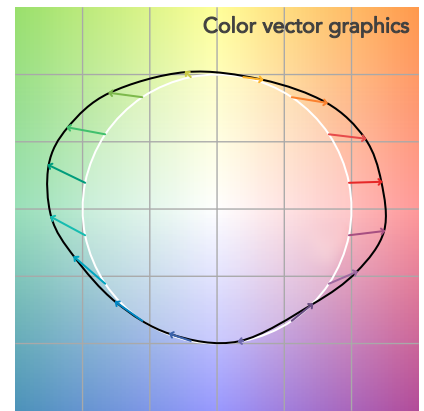
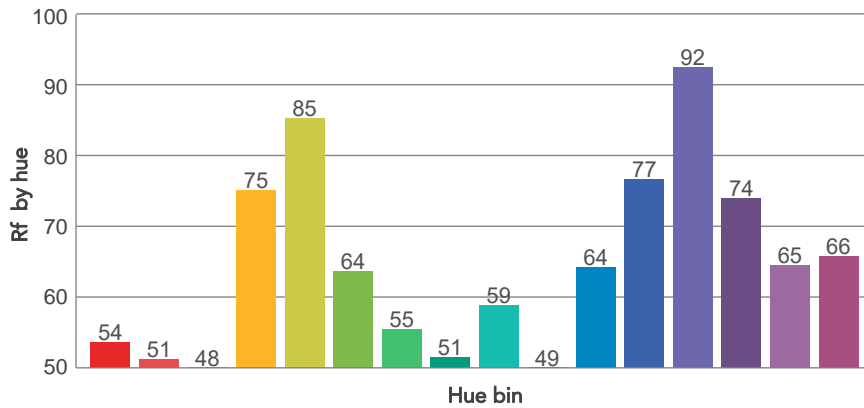
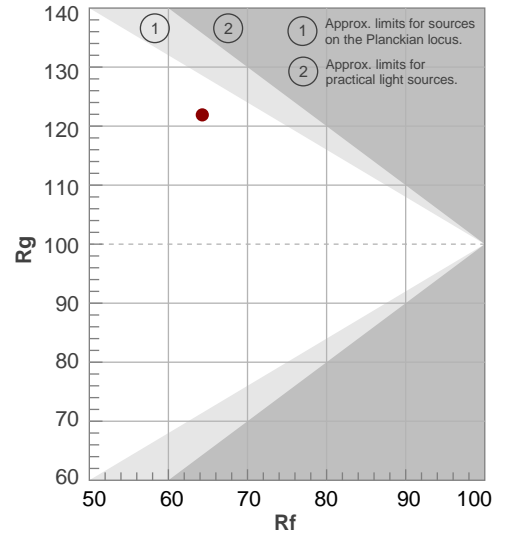
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3195 K	40,5	-96,8	64,3	121,9	62,0	21	0,422	0,395	-0,0015

TM30 DETAILS

Rf 64,3
Fidelity index Rf

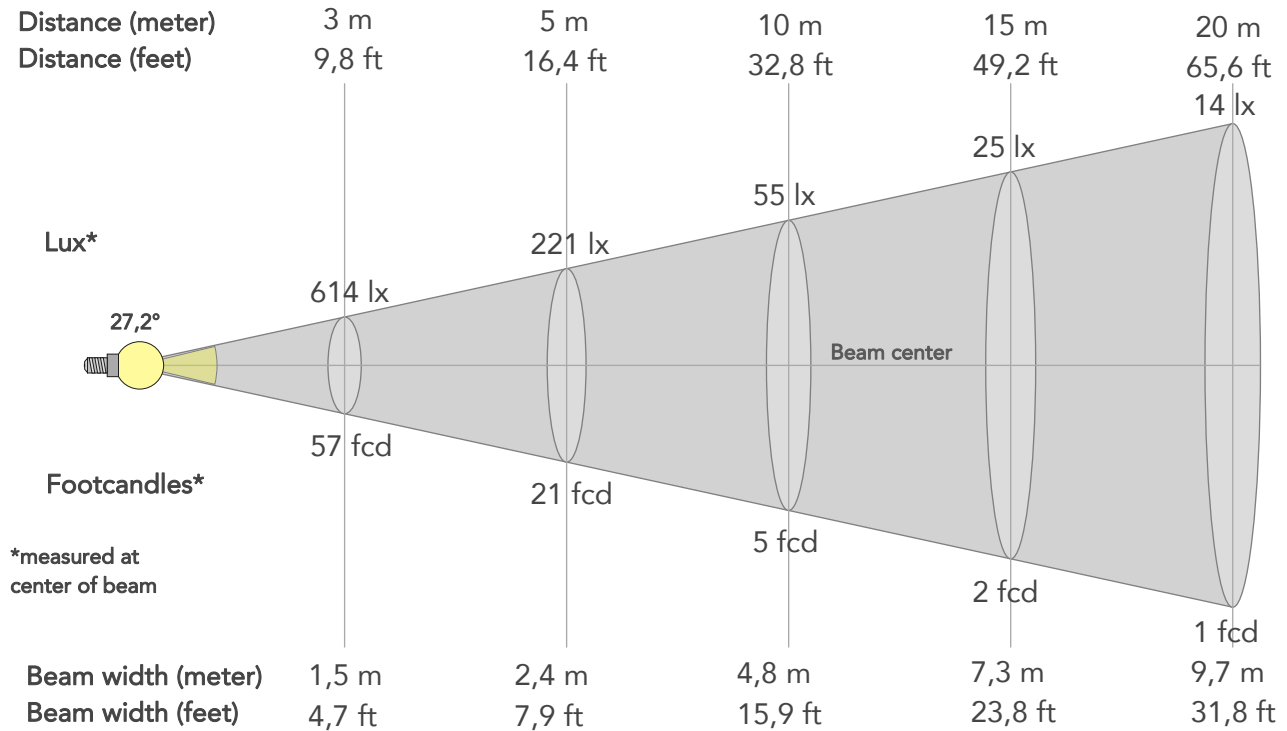
Rg 121,9
Gammut index

		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	54	24%	-4%
2	51	21%	-18%
3	48	11%	-24%
4	75	1%	-14%
5	85	4%	3%
6	64	16%	18%
7	55	26%	11%
8	51	29%	-8%
9	59	22%	-18%
10	49	8%	-29%
11	64	-1%	-24%
12	77	-2%	-16%
13	92	0%	-3%
14	74	-2%	19%
15	65	12%	19%
16	66	25%	8%



BEAM DETAILS

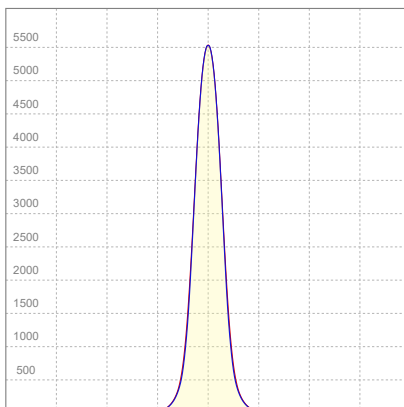
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,2°	47,5°	66°	99,8%	98,9%



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	5528lx	1382lx	614lx	346lx	221lx	98lx	55lx	25lx	14lx	9lx	6lx	3lx	2lx
Footcand.	514fcd	128fcd	57fcd	32fcd	21fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	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	47,6ft	63,5ft	79,4ft

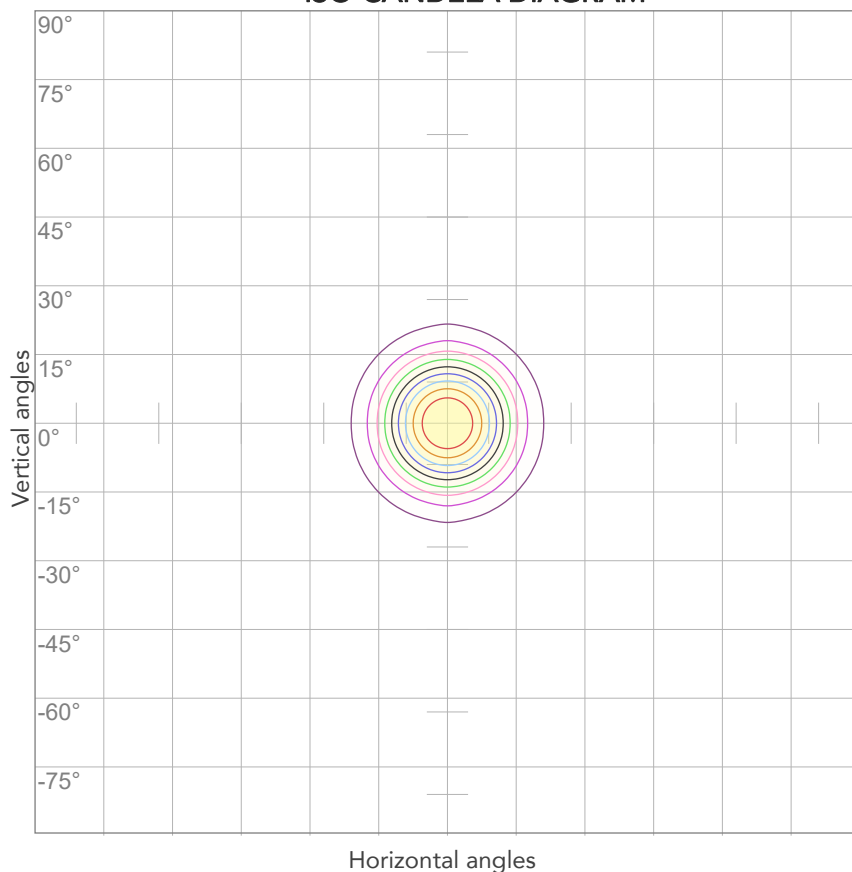
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,279A	52,9W	26lm/W

ISO CANDELA DIAGRAM



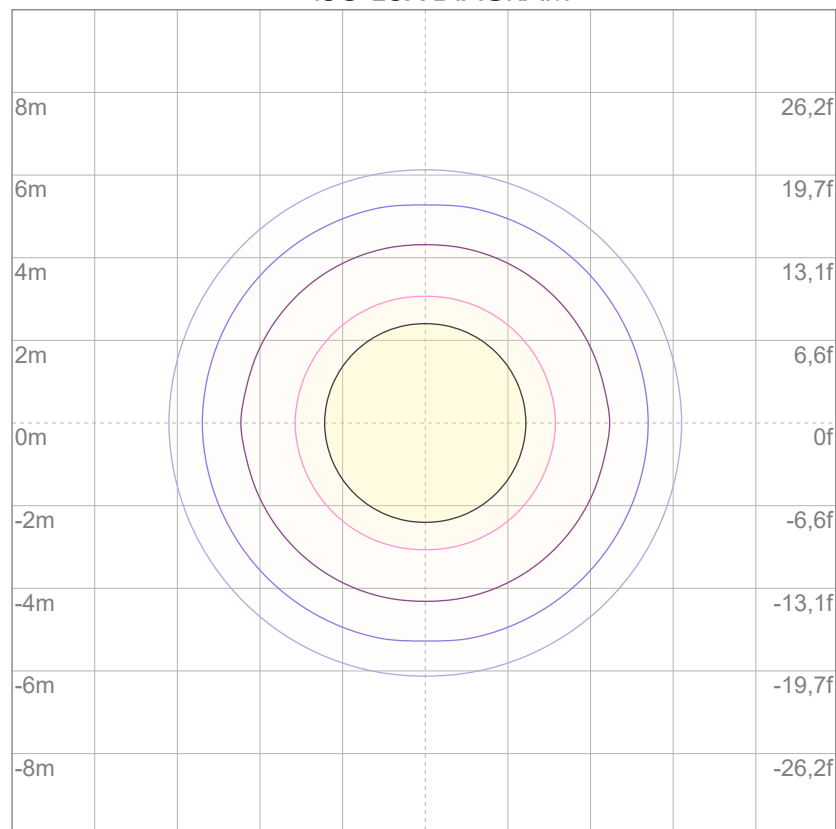
10%	553 cd
20%	1106 cd
30%	1659 cd
40%	2211 cd
50%	2764 cd
60%	3317 cd
70%	3870 cd
80%	4423 cd

Conditions:

Number of c-planes: 4

Candela at center: 5528 cd

ISO LUX DIAGRAM



3%	1,66 lx
5%	2,76 lx
10%	5,53 lx
30%	16,6 lx
50%	27,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 55,3 lx

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



Total lumen output:

1491 lm

Peak candela output:

5969 cd

Light quality:

CRI: 60,0

Color temperature:

4106 K

PRODUCT NAME:

ARENACON4FC

MEASURAMENT CONDITIONS:

Beam angle:

Native Lens

Target:

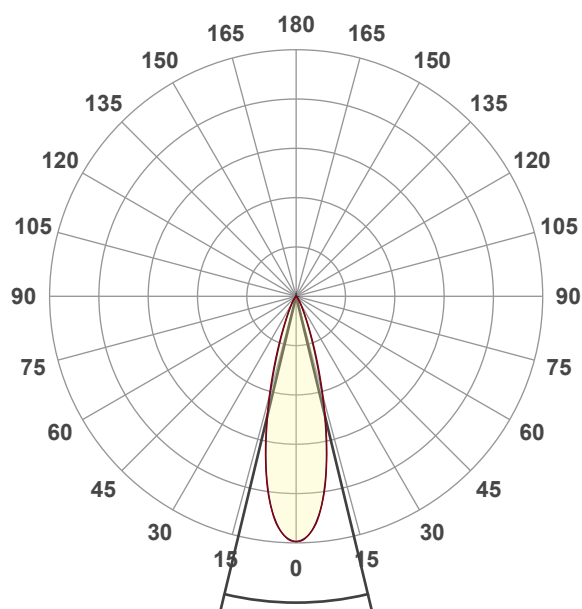
4000K

Operator:

Paolo Carvone

Date and time:

02/03/2022 09:49:23

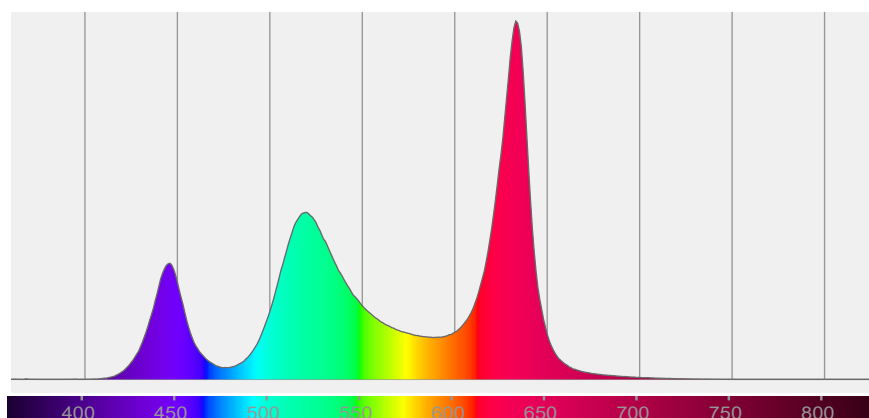


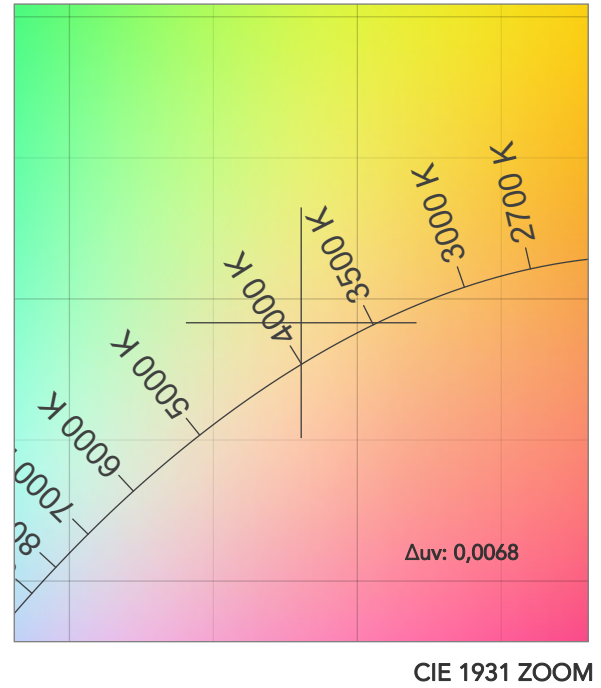
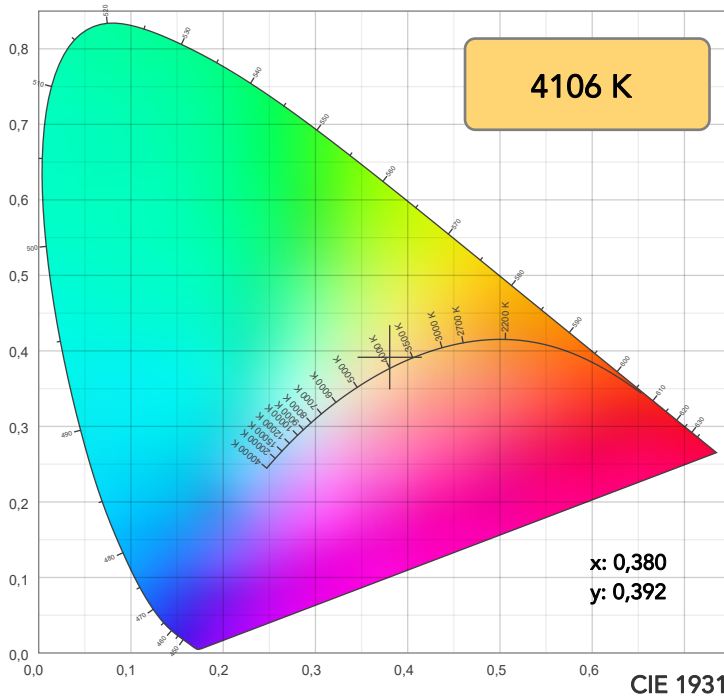
Beam angle 50%: 27,1°

Field angle 10%: 47,2°

Cut off angle 2.5%: 65,6°

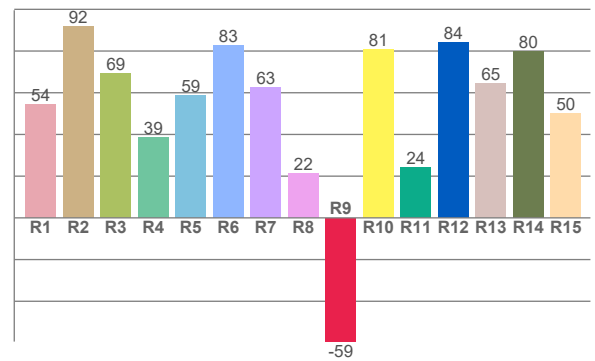
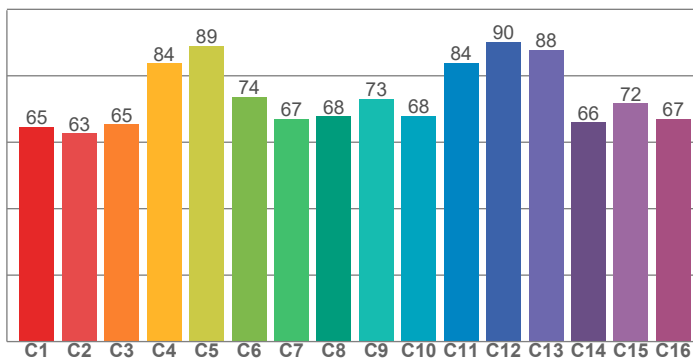
Spectra





TM30: 74,7

CRI: 60,0 (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
54,2	91,7	69,1	38,7	58,8	82,8	62,8	21,6	-59,3	80,6	24,0	84,0	64,7	80,0	50,0

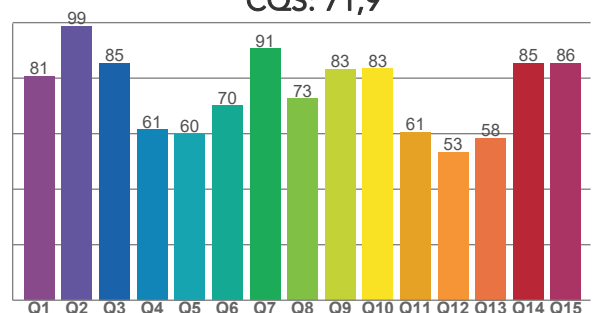
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
64,7	62,6	65,4	83,8	89,0	73,7	67,0	67,8	73,0	67,9	83,9	90,2	87,8	65,9	71,7	67,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80,7	98,7	85,5	61,5	59,9	70,2	90,6	72,7	83,3	83,5	60,7	53,4	58,4	85,3	85,5

CQS: 71,9



COLOR PARAMETERS

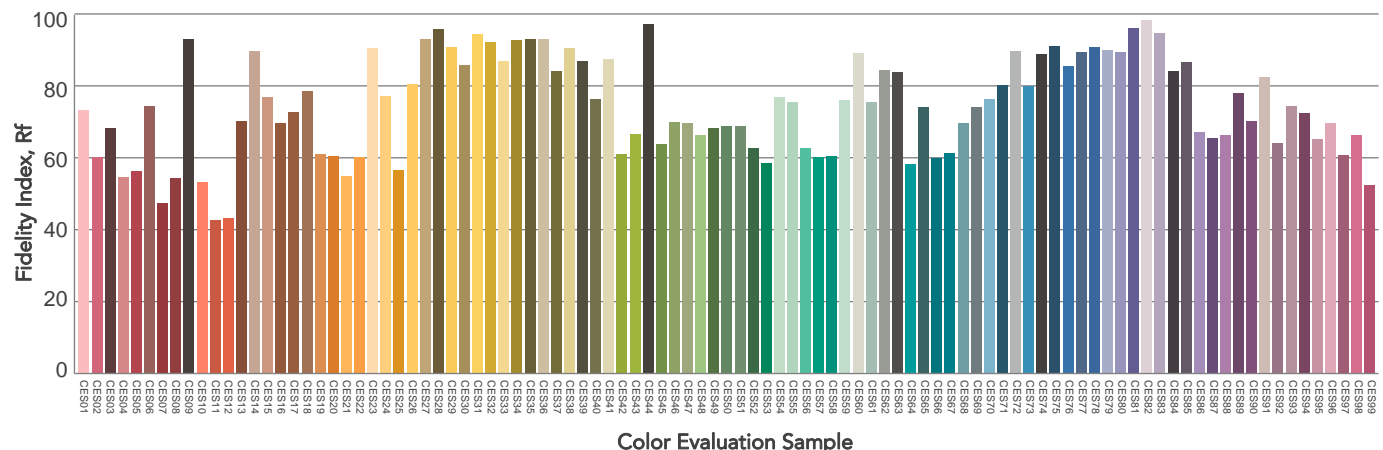
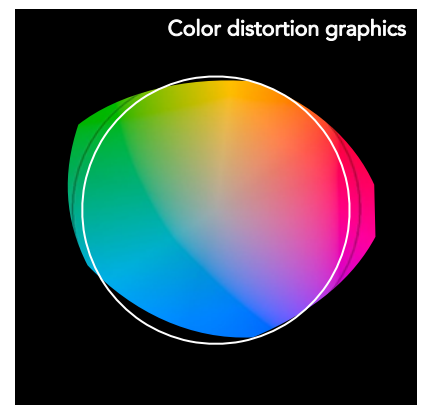
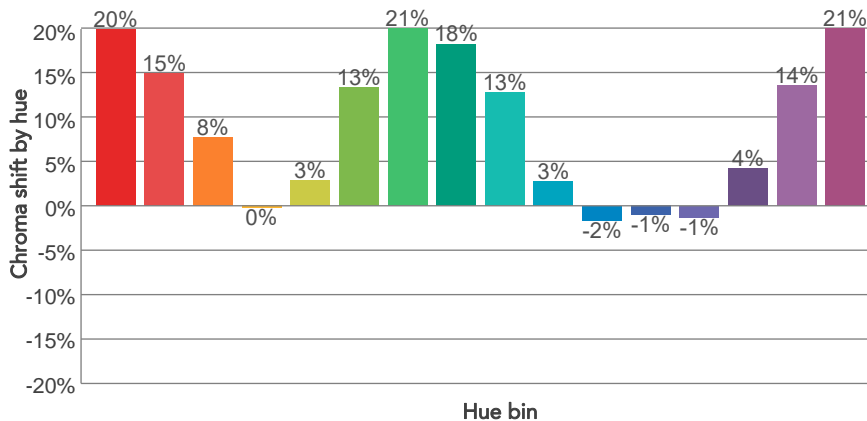
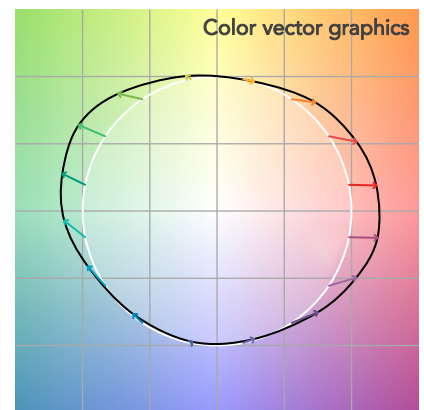
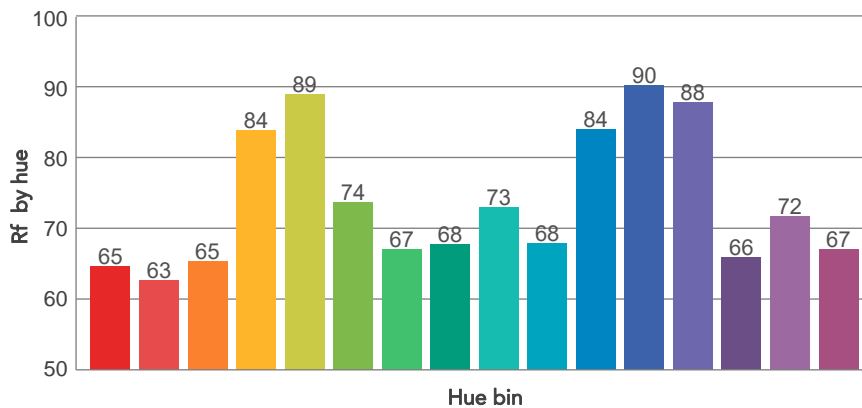
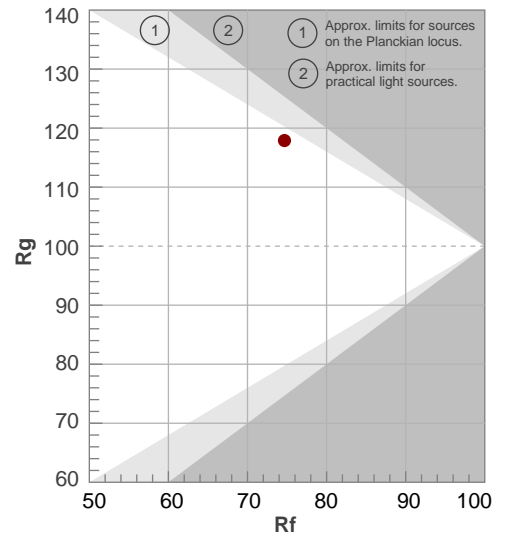
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4106 K	60,0	-59,3	74,7	117,9	71,9	34	0,380	0,392	0,0068

TM30 DETAILS

Rf 74,7
Fidelity index Rf

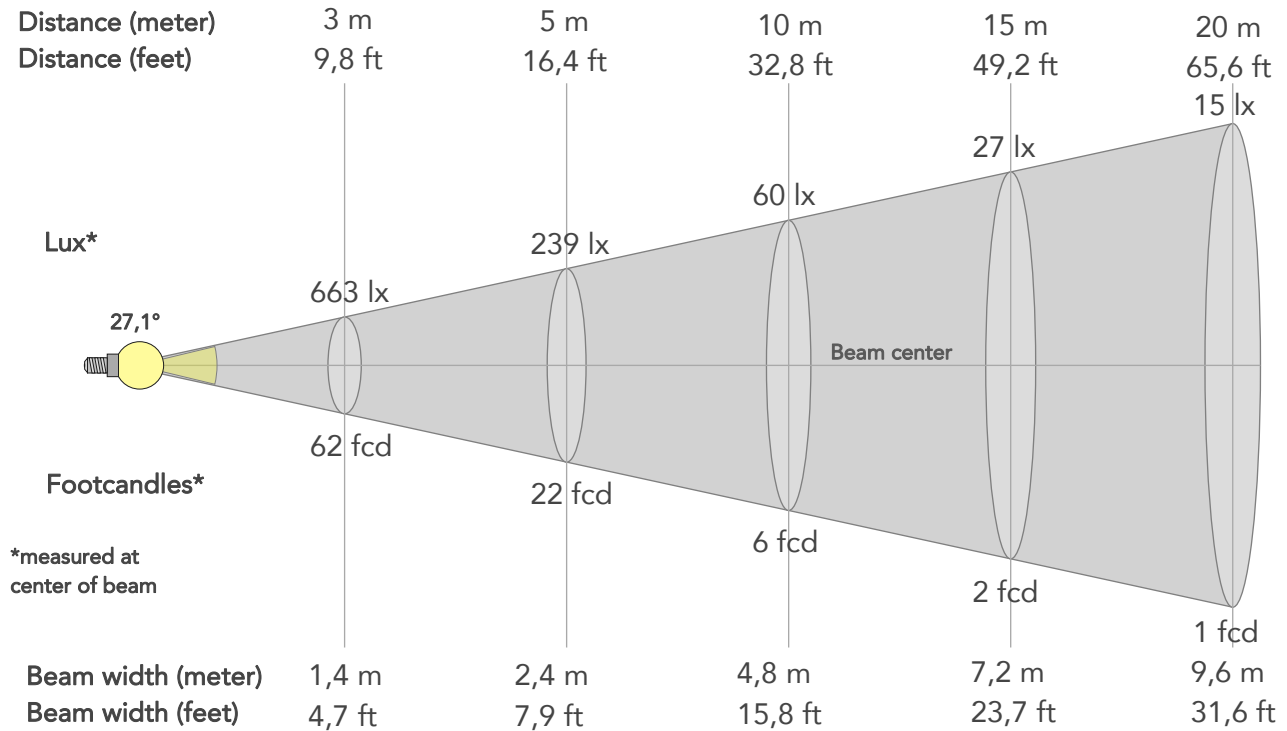
Rg 117,9
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	65	20%	-4%
2	63	15%	-15%
3	65	8%	-16%
4	84	0%	-8%
5	89	3%	3%
6	74	13%	13%
7	67	21%	4%
8	68	18%	-5%
9	73	13%	-15%
10	68	3%	-19%
11	84	-2%	-9%
12	90	-1%	1%
13	88	-1%	9%
14	66	4%	20%
15	72	14%	16%
16	67	21%	4%



BEAM DETAILS

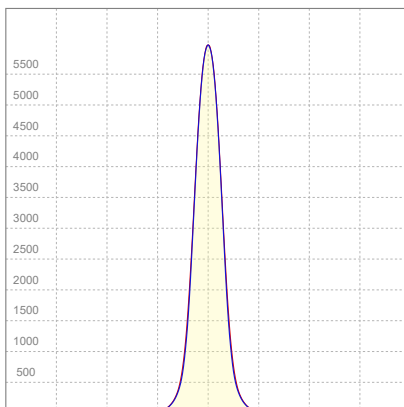
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,1°	47,2°	65,6°	99,9%	99,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	5969lx	1492lx	663lx	373lx	239lx	106lx	60lx	27lx	15lx	10lx	7lx	4lx	2lx
Footcand.	555fcd	139fcd	62fcd	35fcd	22fcd	10fcd	6fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,6m	12m	14,4m	19,3m	24,1m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,8ft	15,8ft	23,7ft	31,6ft	39,5ft	47,4ft	63,2ft	79ft

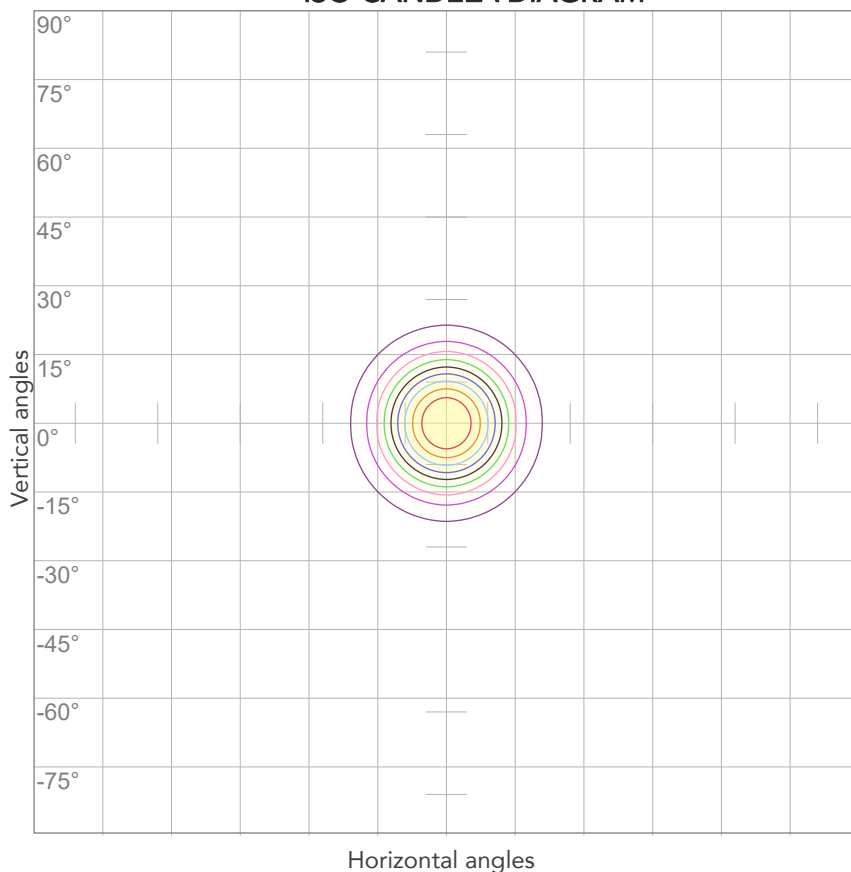
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,285A	54,3W	27lm/W

ISO CANDELA DIAGRAM



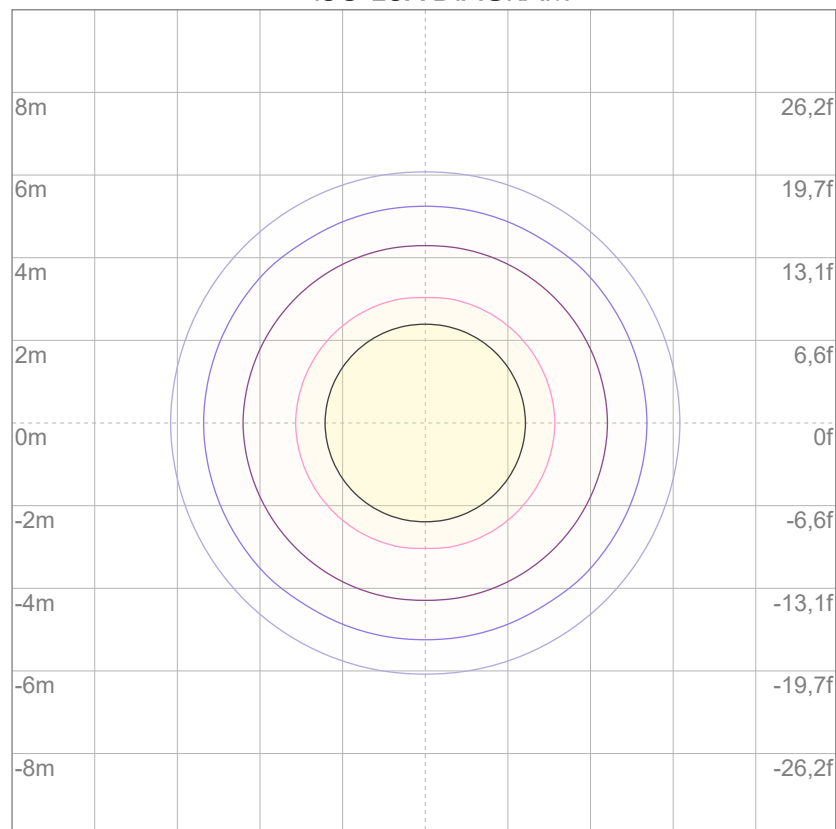
10%	597 cd
20%	1194 cd
30%	1791 cd
40%	2388 cd
50%	2984 cd
60%	3581 cd
70%	4178 cd
80%	4775 cd

Conditions:

Number of c-planes: 4

Candela at center: 5969 cd

ISO LUX DIAGRAM



3%	1,79 lx
5%	2,98 lx
10%	5,97 lx
30%	17,9 lx
50%	29,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 59,7 lx

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



Total lumen output:

2234 lm

Peak candela output:

9064 cd

Light quality:

CRI: 79,1

Color temperature:

5109 K

PRODUCT NAME:

ARENACON4FC

MEASUREMENT CONDITIONS:

Beam angle:

Native Lens

Target:

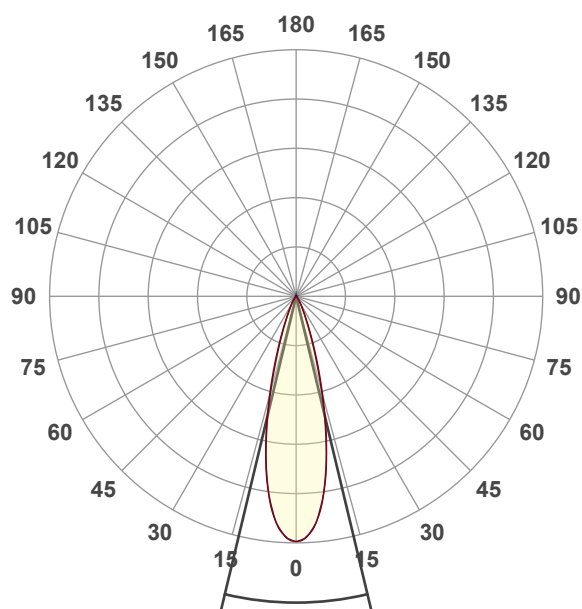
5000K

Operator:

Paolo Carvone

Date and time:

02/03/2022 09:52:35

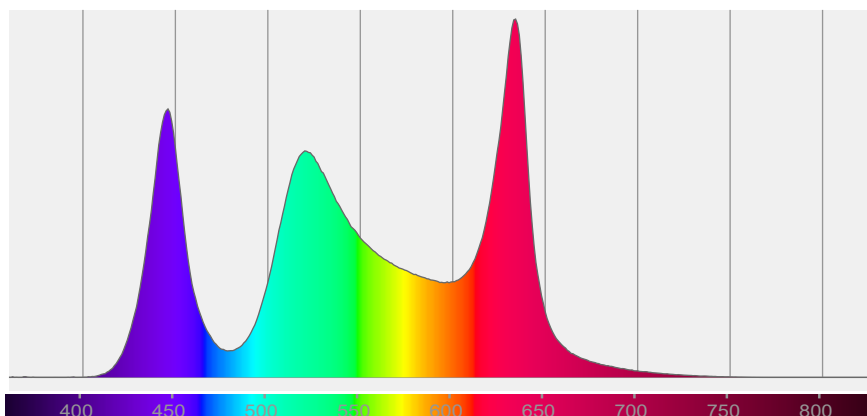


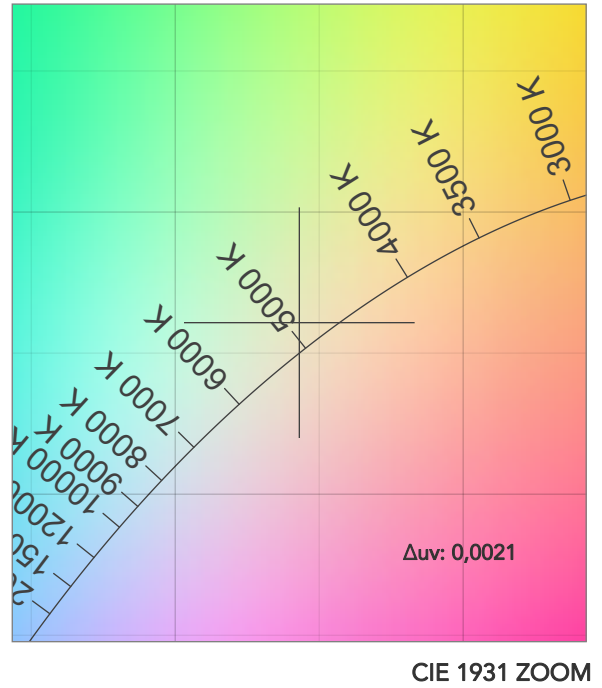
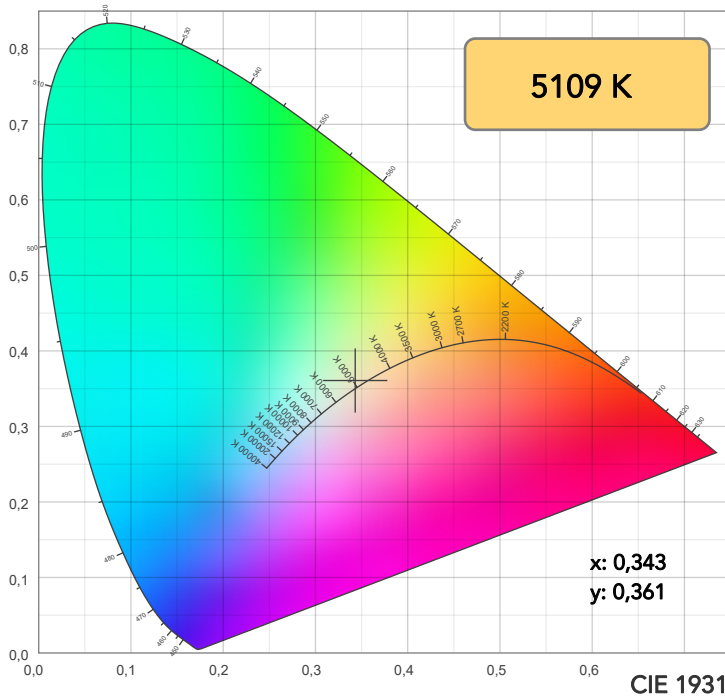
Beam angle 50%: 26,9°

Field angle 10%: 47°

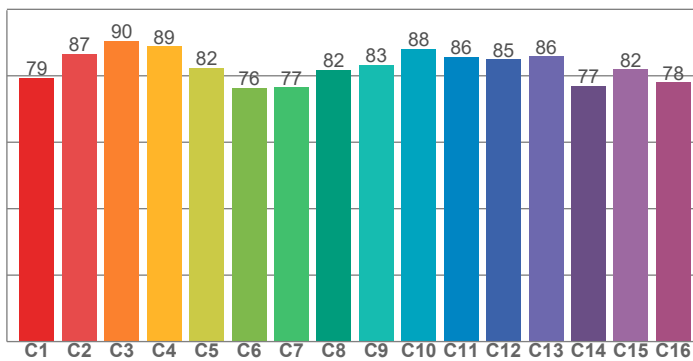
Cut off angle 2.5%: 65,4°

Spectra

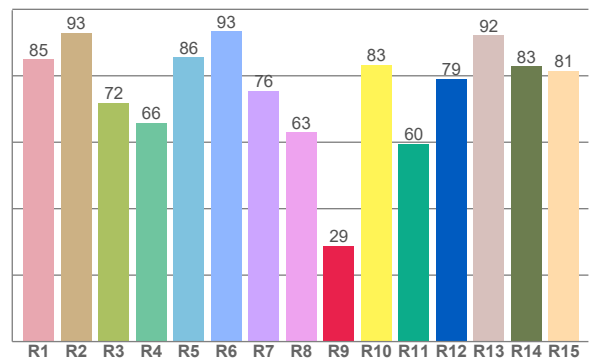




TM30: 83,3



CRI: 79,1 (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
85,0	93,0	71,9	65,8	85,7	93,3	75,5	63,0	28,8	83,3	59,6	79,1	92,3	82,9	81,5

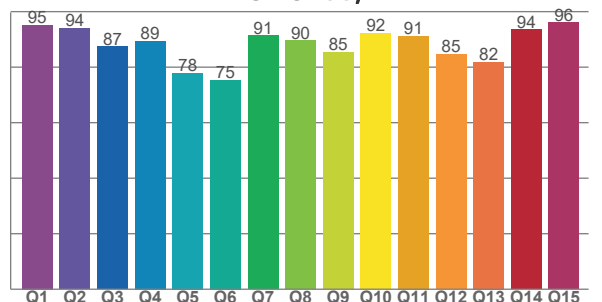
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79,4	86,7	90,4	88,8	82,4	76,3	76,6	81,7	83,2	88,1	85,7	84,9	85,8	76,9	82,0	78,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,3	94,0	87,4	89,4	77,9	75,3	91,4	89,6	85,3	92,2	91,3	84,6	81,8	93,6	96,1

CQS: 86,9



COLOR PARAMETERS

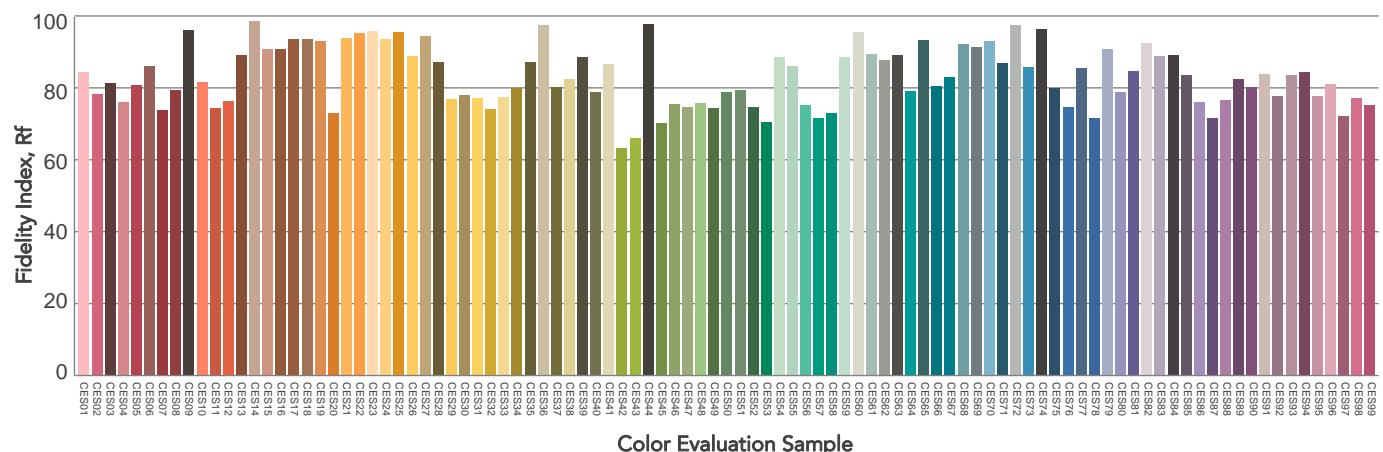
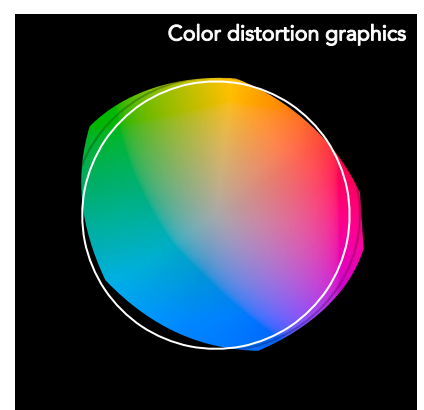
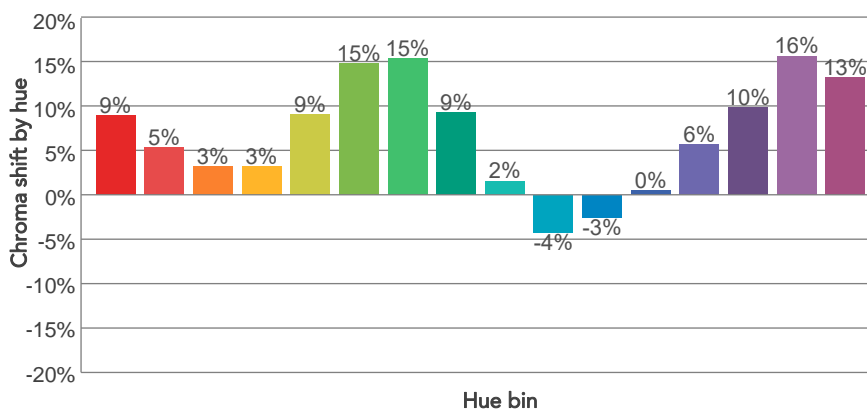
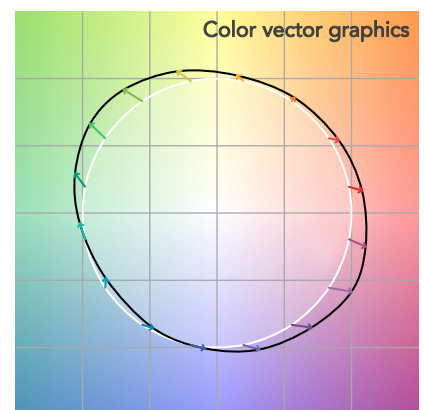
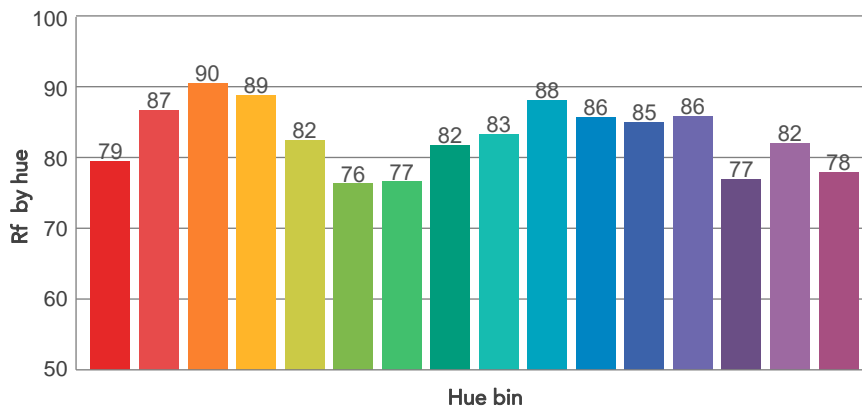
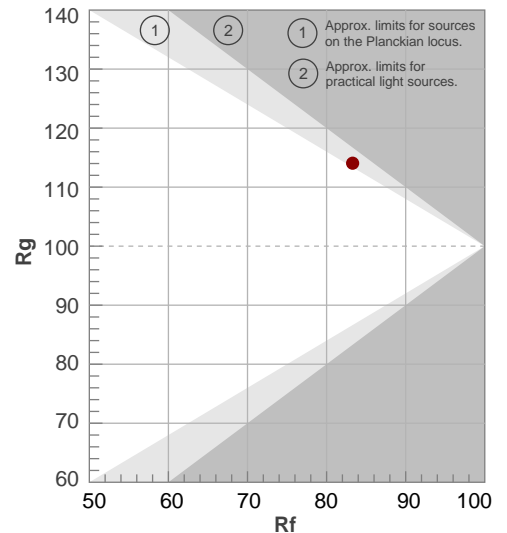
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5109 K	79,1	28,8	83,3	114,1	86,9	67	0,343	0,361	0,0021

TM30 DETAILS

Rf 83,3
Fidelity index Rf

Rg 114,1
Gammut index

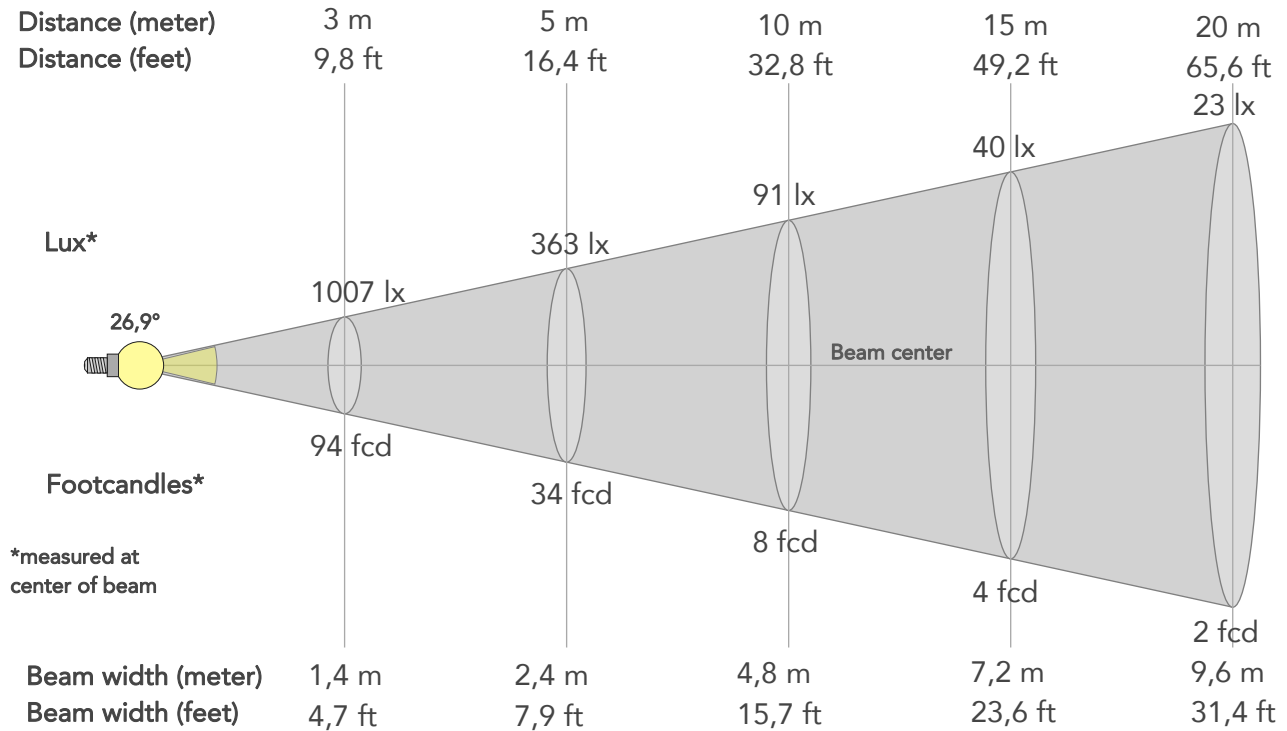
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	79	9%	-5%
2	87	5%	-5%
3	90	3%	0%
4	89	3%	5%
5	82	9%	8%
6	76	15%	7%
7	77	15%	-3%
8	82	9%	-8%
9	83	2%	-12%
10	88	-4%	-6%
11	86	-3%	8%
12	85	0%	11%
13	86	6%	11%
14	77	10%	11%
15	82	16%	7%
16	78	13%	-3%



BEAM DETAILS



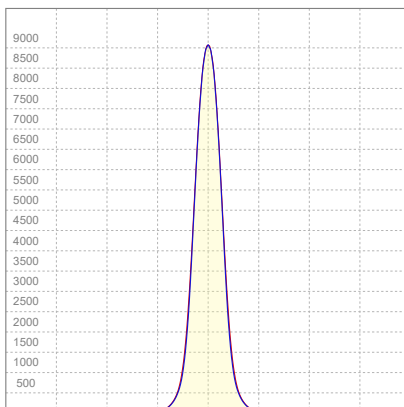
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,9°	47°	65,4°	100,0%	99,6%



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	9063lx	2266lx	1007lx	566lx	363lx	161lx	91lx	40lx	23lx	15lx	10lx	6lx	4lx
Footcand.	842fcd	210fcd	94fcd	53fcd	34fcd	15fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	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	23,9m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,8ft	15,7ft	23,6ft	31,4ft	39,3ft	47,1ft	62,8ft	78,5ft

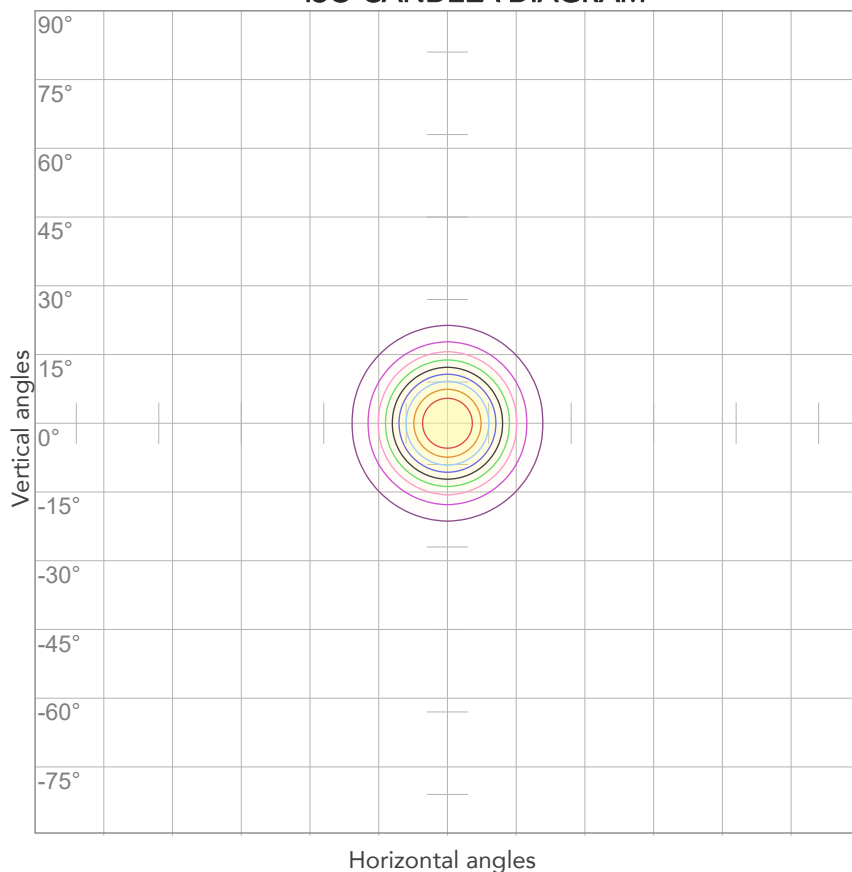
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,366A	73,8W	30lm/W

ISO CANDELA DIAGRAM



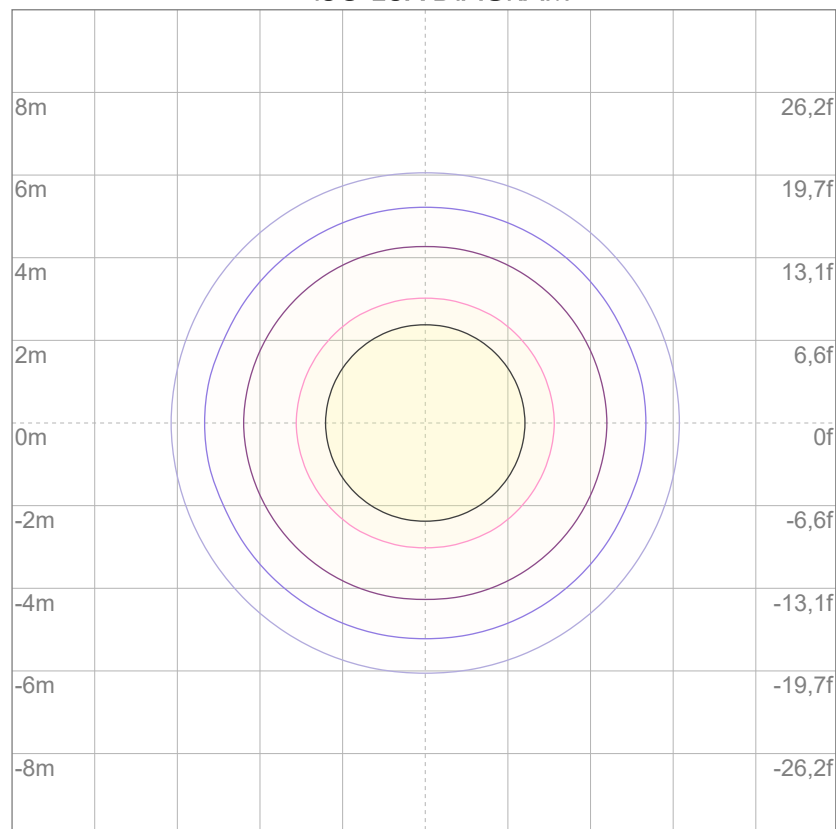
10%	906 cd
20%	1813 cd
30%	2719 cd
40%	3625 cd
50%	4531 cd
60%	5438 cd
70%	6344 cd
80%	7250 cd

Conditions:

Number of c-planes: 4

Candela at center: 9063 cd

ISO LUX DIAGRAM



3%	2,72 lx
5%	4,53 lx
10%	9,06 lx
30%	27,2 lx
50%	45,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 90,6 lx

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



Total lumen output:

3183 lm

Peak candela output:

12193 cd

Light quality:

CRI: 83,9

Color temperature:

5975 K

PRODUCT NAME:

ARENACON4FC

MEASUREMENT CONDITIONS:

Beam angle:

Native Lens

Target:

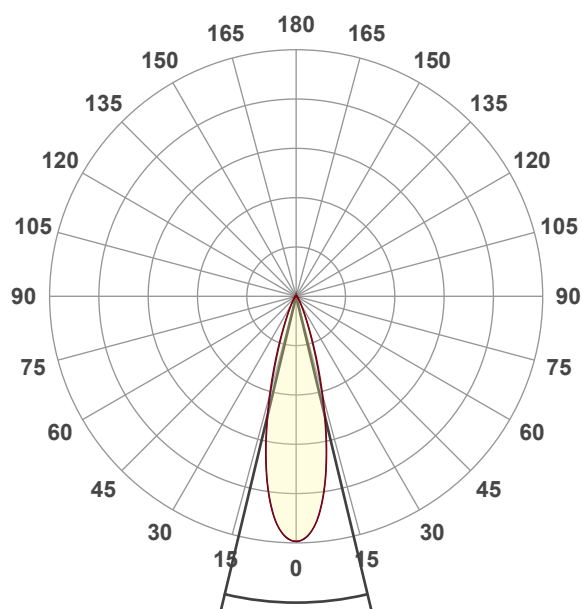
6000K

Operator:

Paolo Carvone

Date and time:

02/03/2022 10:00:32

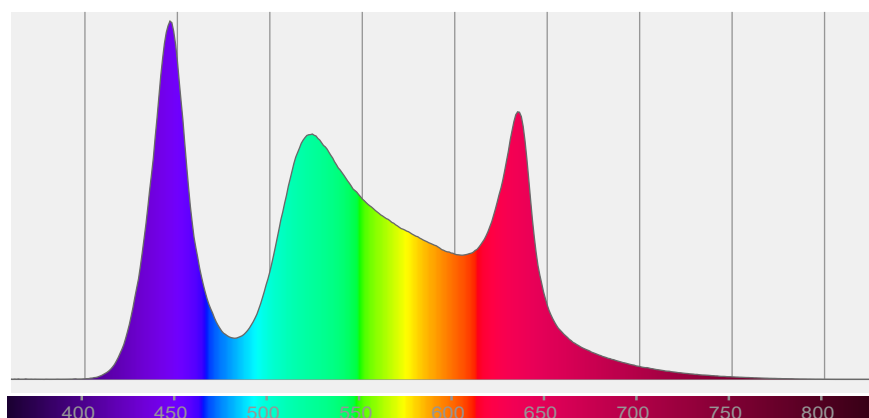


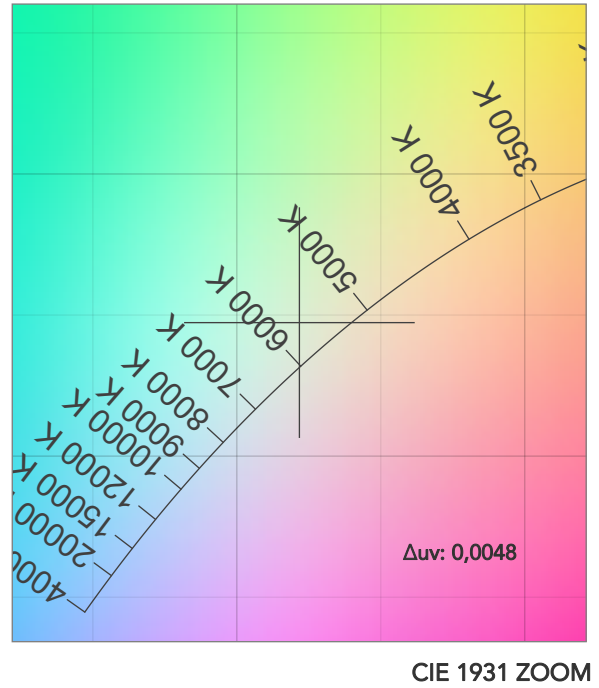
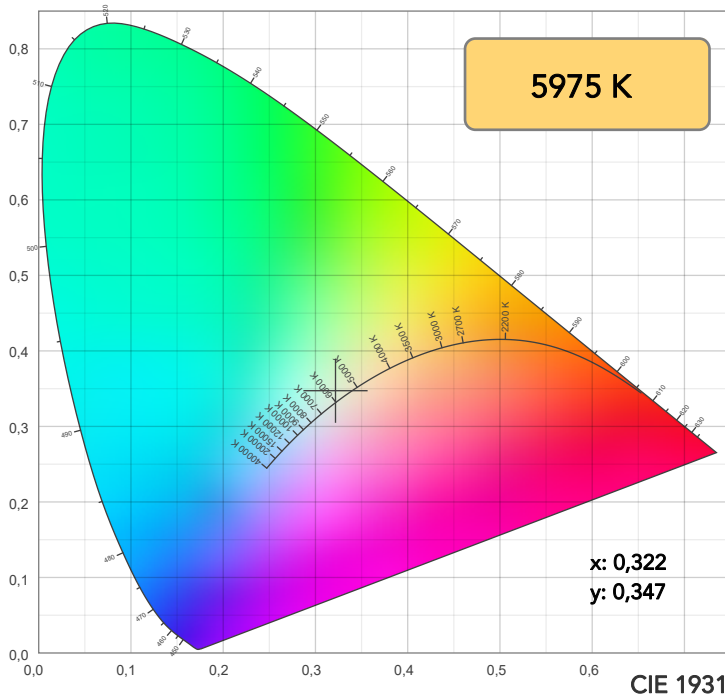
Beam angle 50%: 27°

Field angle 10%: 47,4°

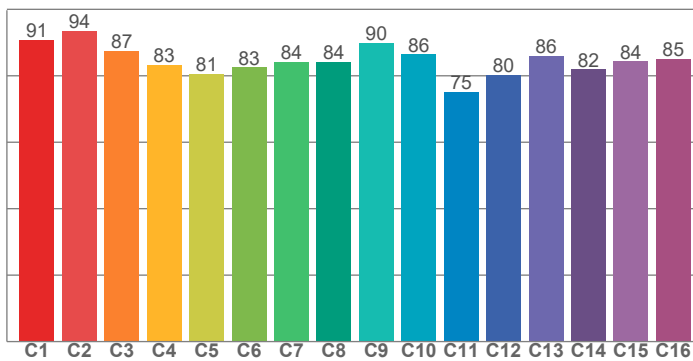
Cut off angle 2.5%: 69°

Spectra

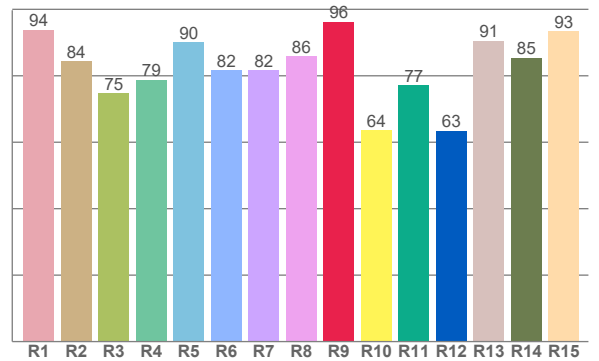




TM30: 84,6



CRI: 83,9 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,9	84,4	74,8	78,8	90,1	81,6	81,6	85,8	96,2	63,6	77,2	63,5	90,6	85,5	93,4

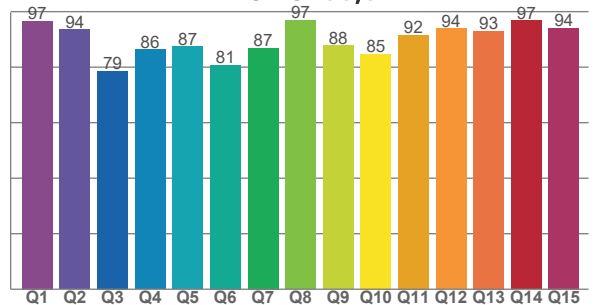
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,8	93,6	87,5	83,4	80,6	82,5	84,3	84,1	89,9	86,4	75,1	80,3	85,9	81,9	84,3	85,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,6	93,6	78,6	86,4	87,5	80,8	87,0	96,9	87,7	84,7	91,7	94,0	93,0	96,8	94,1

CQS: 88,5



COLOR PARAMETERS

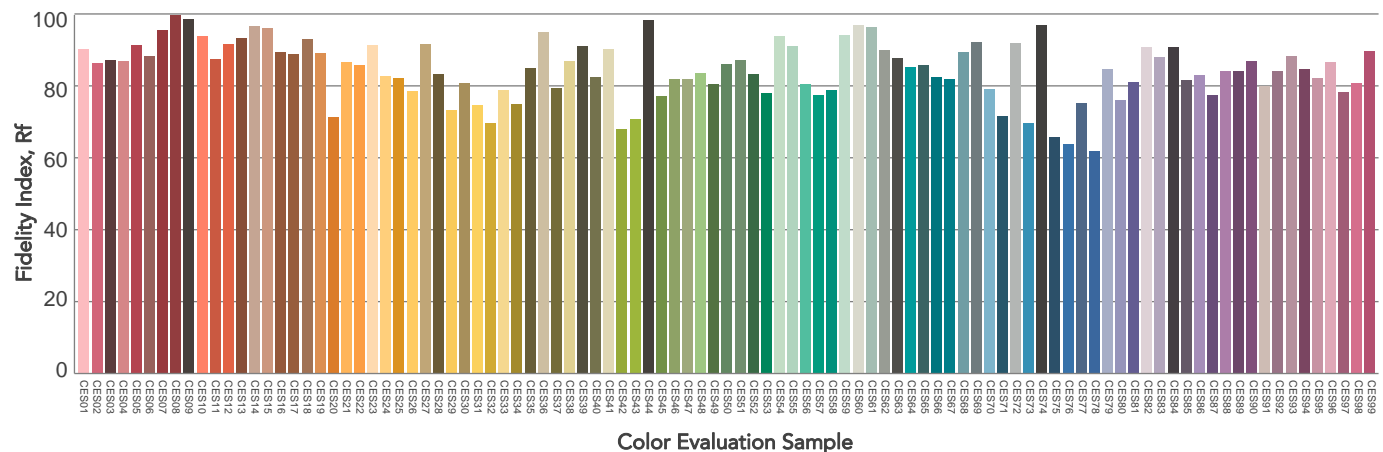
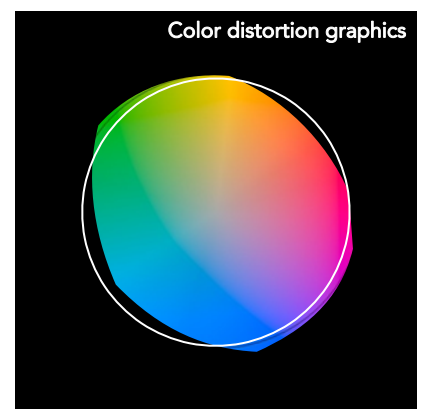
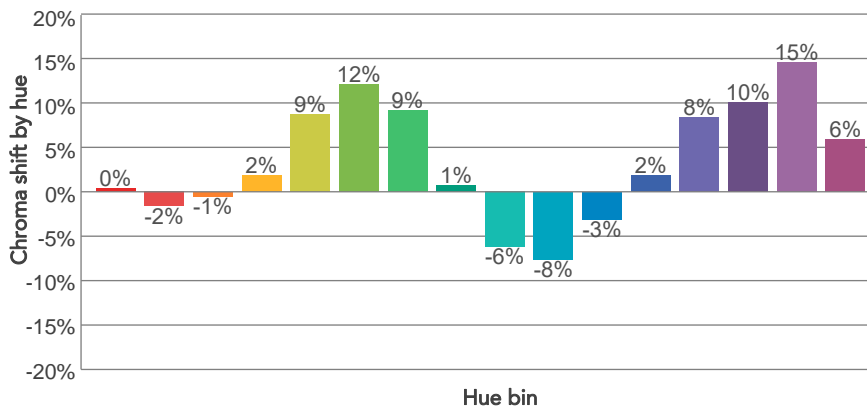
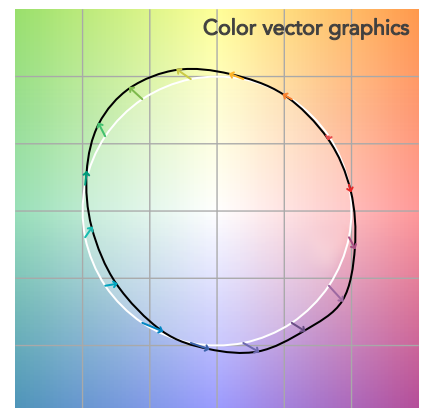
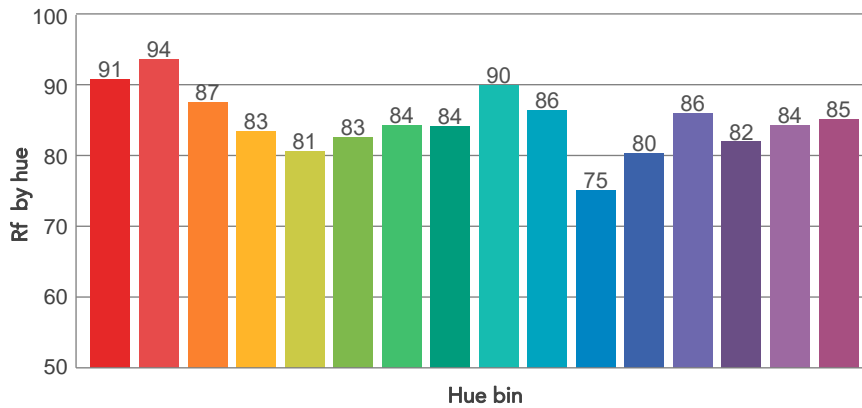
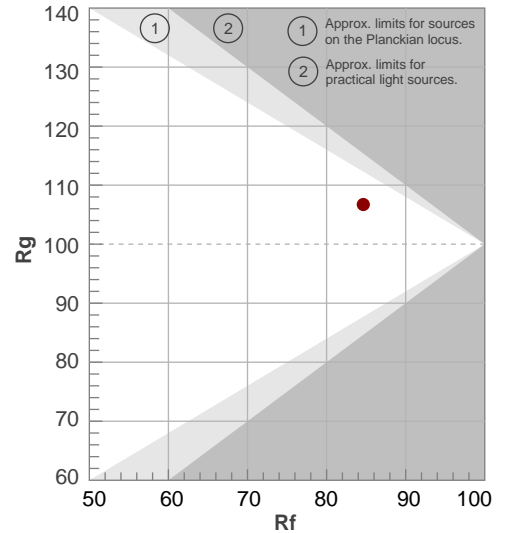
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5975 K	83,9	96,2	84,6	106,7	88,5	81	0,322	0,347	0,0048

TM30 DETAILS

Rf 84,6
Fidelity index Rf

Rg 106,7
Gammut index

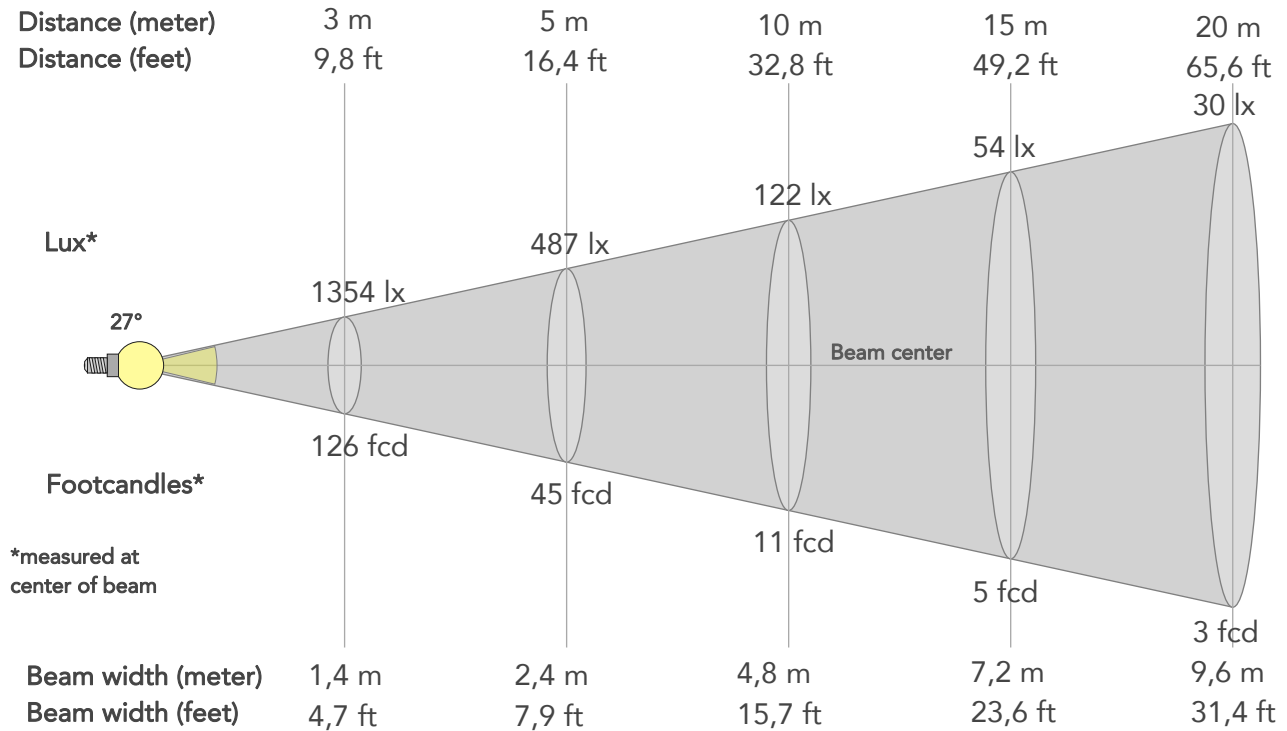
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	0%	-5%
2	94	-2%	-1%
3	87	-1%	7%
4	83	2%	10%
5	81	9%	8%
6	83	12%	3%
7	84	9%	-5%
8	84	1%	-9%
9	90	-6%	-6%
10	86	-8%	3%
11	75	-3%	15%
12	80	2%	14%
13	86	8%	10%
14	82	10%	4%
15	84	15%	-4%
16	85	6%	-7%



BEAM DETAILS



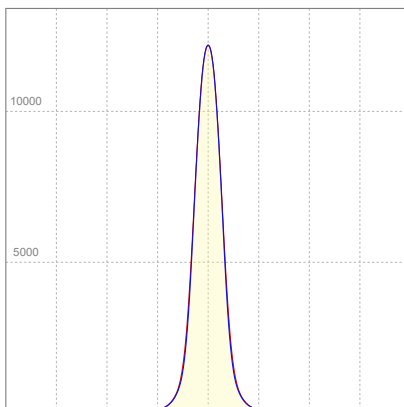
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27°	47,4°	69°	99,4%	97,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	12182lx	3045lx	1354lx	761lx	487lx	217lx	122lx	54lx	30lx	19lx	14lx	8lx	5lx
Footcand.	1132fcd	283fcd	126fcd	71fcd	45fcd	20fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	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	15,7ft	23,6ft	31,4ft	39,3ft	47,2ft	62,9ft	78,6ft

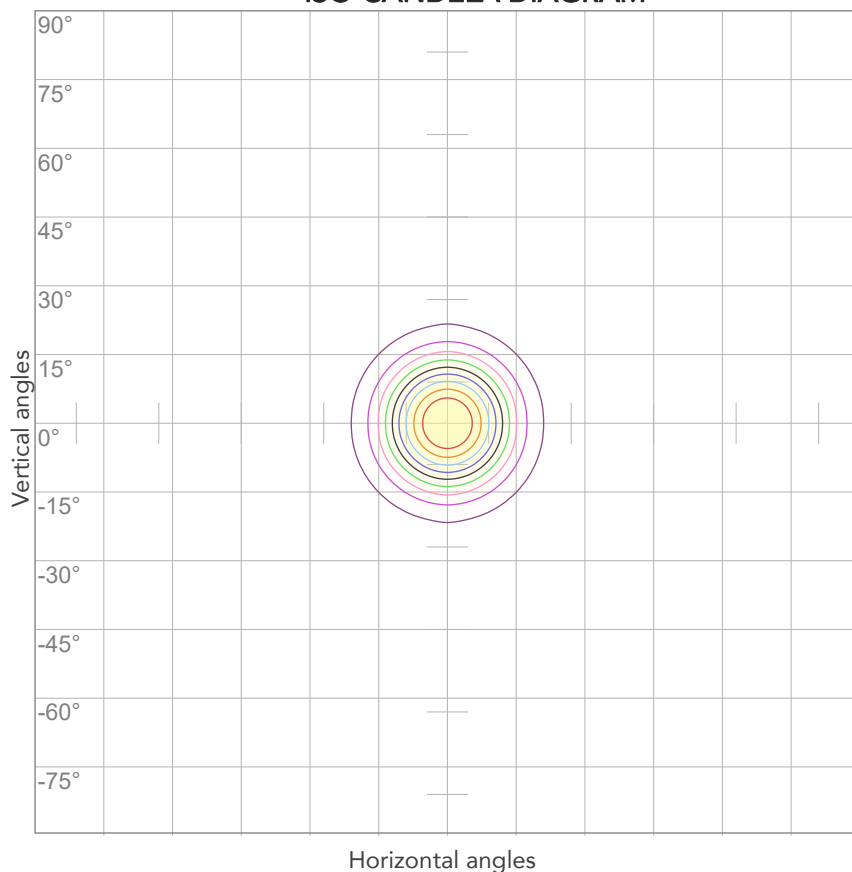
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,458A	93,3W	34lm/W

ISO CANDELA DIAGRAM



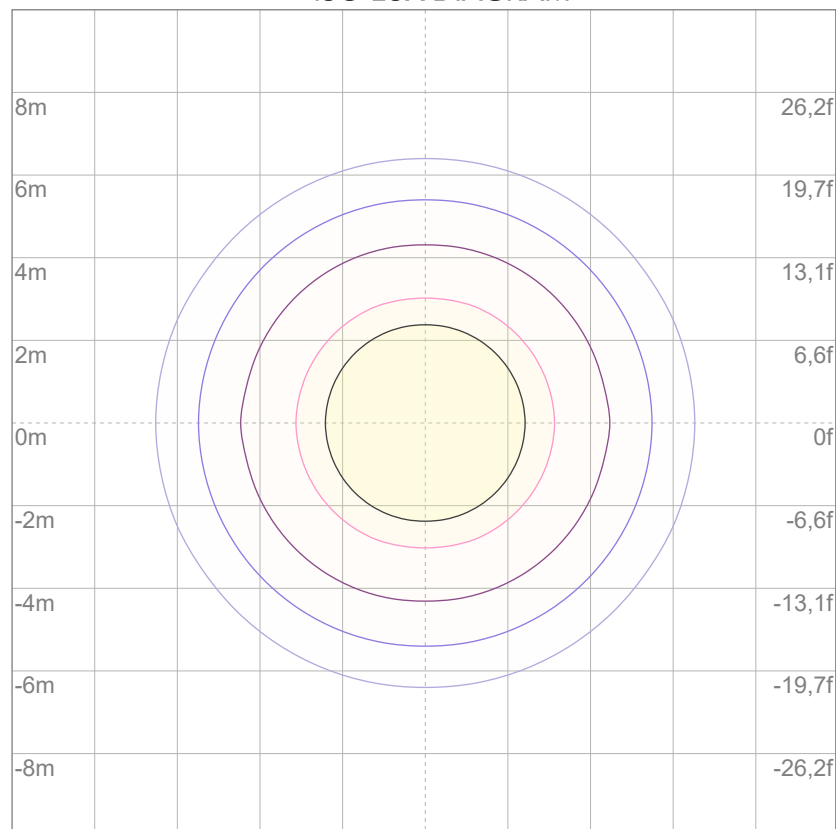
10%	1218 cd
20%	2436 cd
30%	3654 cd
40%	4873 cd
50%	6091 cd
60%	7309 cd
70%	8527 cd
80%	9745 cd

Conditions:

Number of c-planes: 4

Candela at center: 12182 cd

ISO LUX DIAGRAM



3%	3,65 lx
5%	6,09 lx
10%	12,2 lx
30%	36,5 lx
50%	60,9 lx

Conditions:

Number of c-planes: 4

Lux at center: 122 lx

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