

Photometric Test Report



ECLFR2KTW

LED Fresnel FC and Tunable White with colour correction to replace 2000W lamp

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Beam angle Max Zoom 68

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Beam angle Min Zoom 78

Color temperature 3200K

Beam angle Max Zoom 83

Beam angle Med Zoom 88

Beam angle Min Zoom 93

Color temperature 4000K

Beam angle Max Zoom 98

Beam angle Med Zoom 103

Beam angle Min Zoom 108

Color temperature 5600K

Beam angle Max Zoom 113

Beam angle Med Zoom 118

Beam angle Min Zoom 123

Color temperature 6000K

Beam angle Max Zoom 128

Beam angle Med Zoom 133

Beam angle Min Zoom 138

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:

13396 lm

Peak candela output:

17748 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

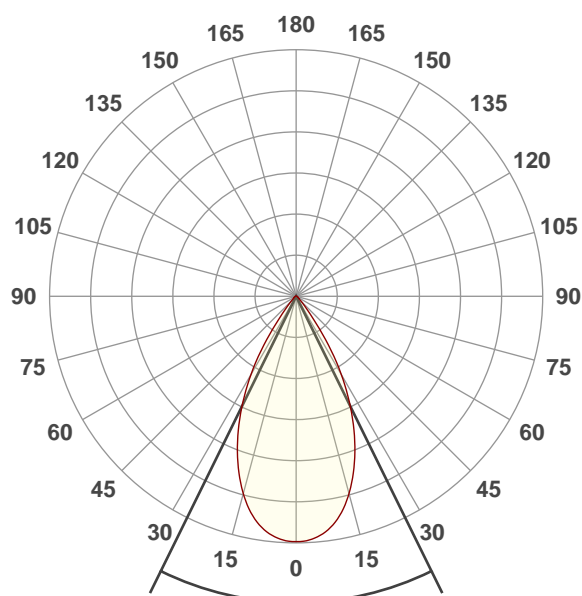
Full on

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:31:11

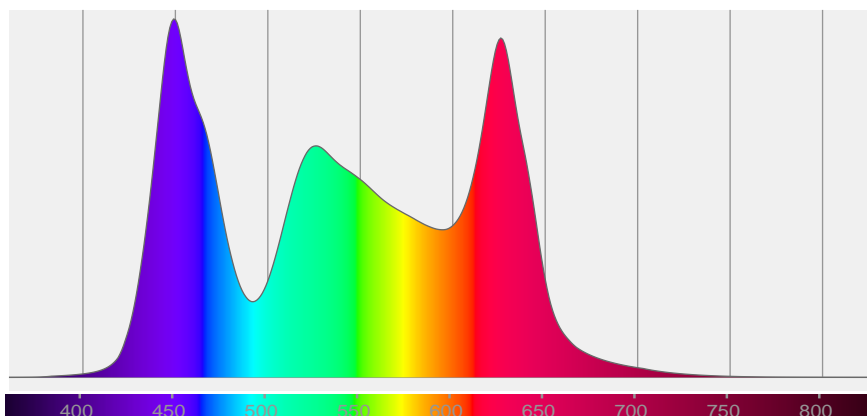


Beam angle 50%: 52,4°

Field angle 10%: 76,1°

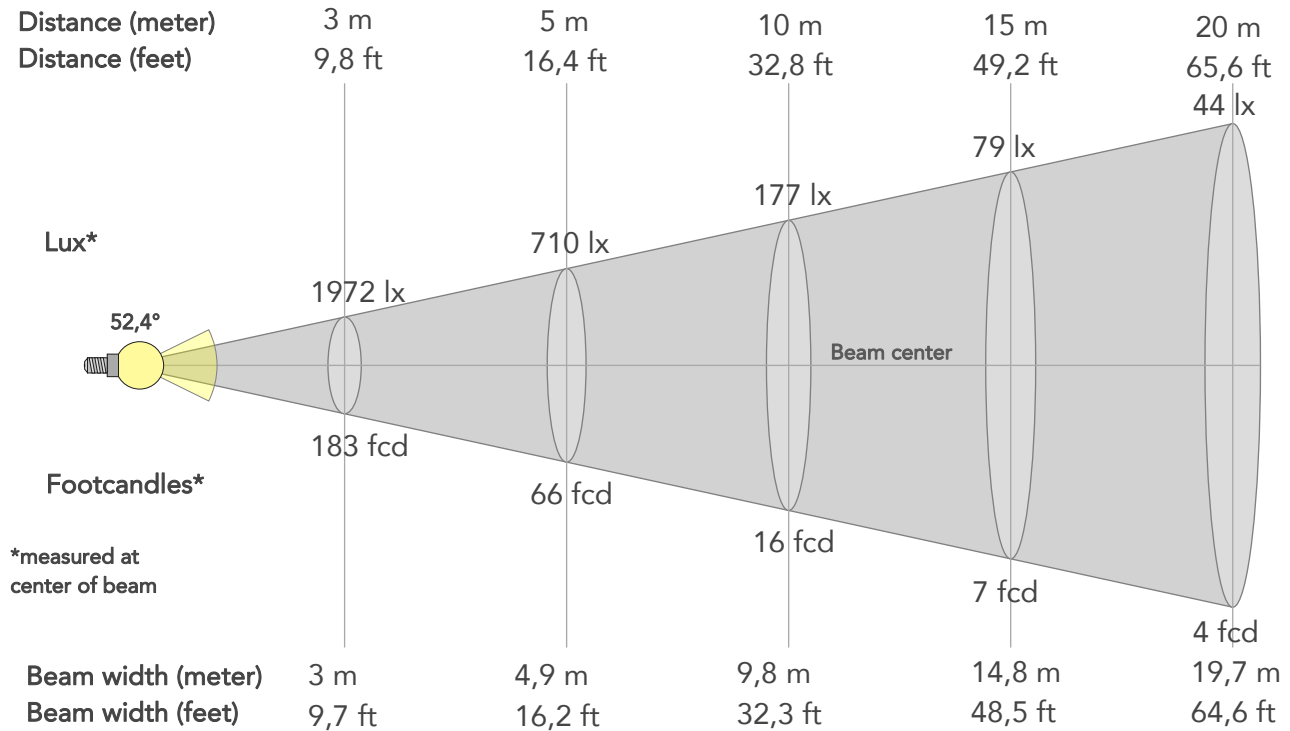
Cut off angle 2.5%: 92,2°

Spectra



BEAM DETAILS

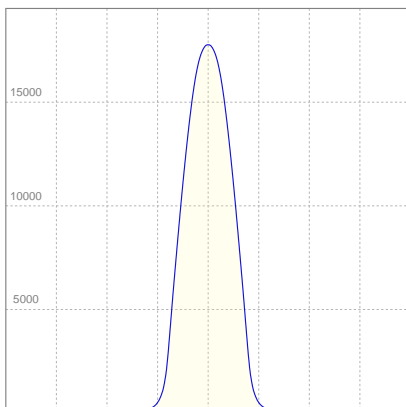
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,4°	76,1°	92,2°	95,7%	93,2%



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	17748lx	4437lx	1972lx	1109lx	710lx	316lx	177lx	79lx	44lx	28lx	20lx	11lx	7lx
Footcand.	1649fcd	412fcd	183fcd	103fcd	66fcd	29fcd	16fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	1m	2m	3m	3,9m	4,9m	7,4m	9,8m	14,8m	19,7m	24,6m	29,5m	39,4m	49,2m
Beam wid.	3,3ft	6,5ft	9,7ft	12,9ft	16,2ft	24,2ft	32,3ft	48,5ft	64,6ft	80,8ft	96,9ft	129,2ft	161,5ft

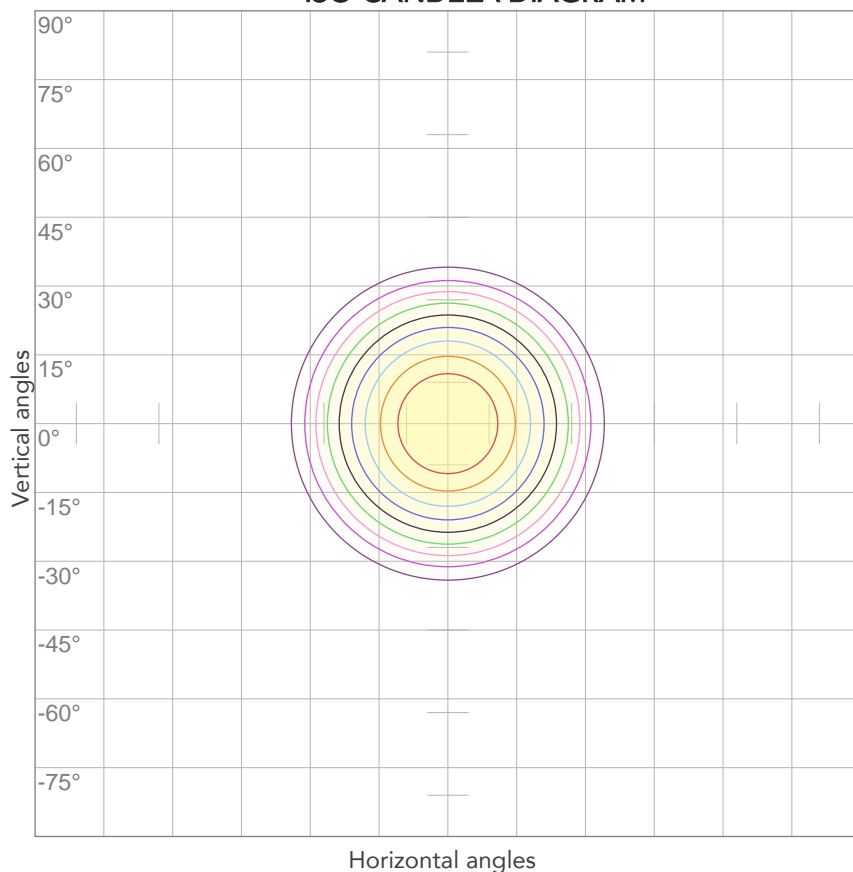
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	1,86A	391W	34lm/W
Power FC			
0,95			

ISO CANDELA DIAGRAM



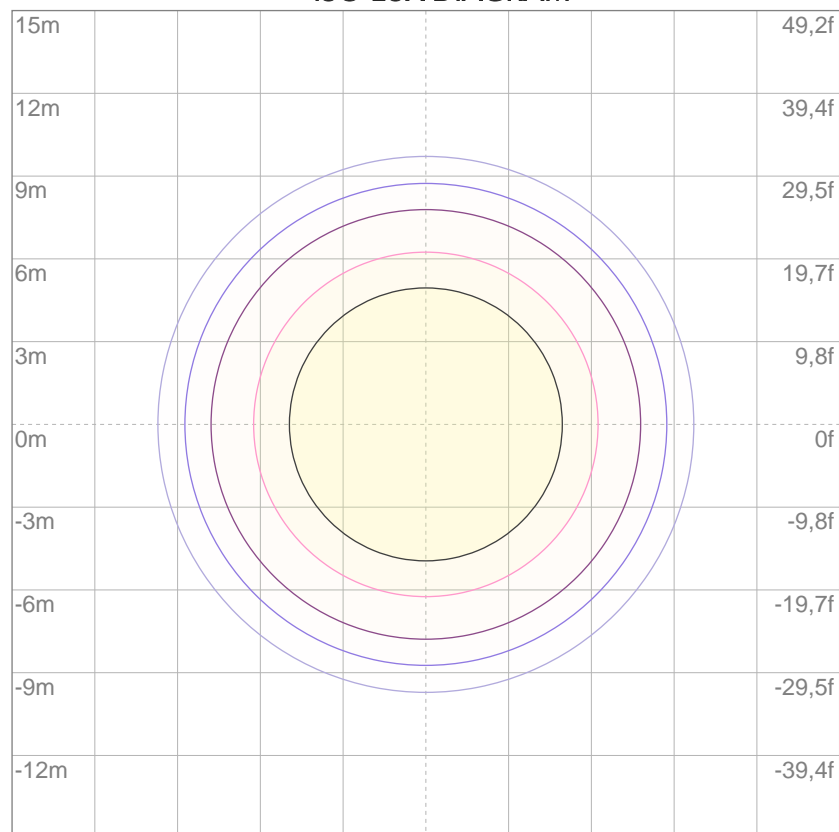
10%	1775 cd
20%	3550 cd
30%	5324 cd
40%	7099 cd
50%	8874 cd
60%	10649 cd
70%	12423 cd
80%	14198 cd

Conditions:

Number of c-planes: 2

Candela at center: 17748 cd

ISO LUX DIAGRAM



3%	5,32 lx
5%	8,87 lx
10%	17,7 lx
30%	53,2 lx
50%	88,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 177 lx

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



Total lumen output:

13600 lm

Peak candela output:

46998 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

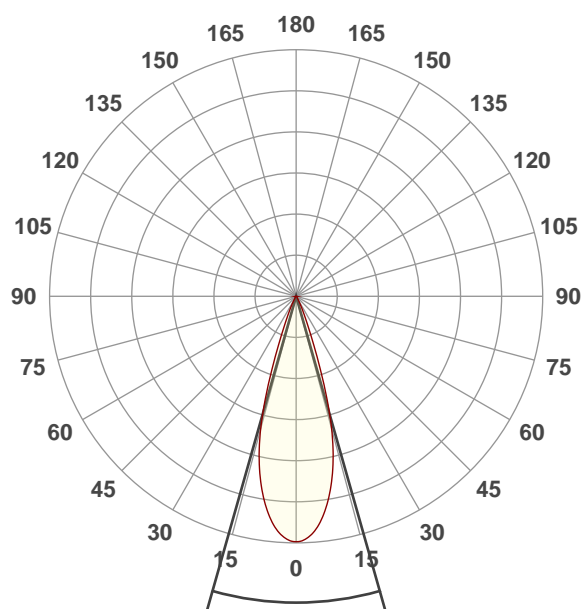
Full on

Operator:

Paolo Carvone

Date and time:

30/01/2020 09:54:51

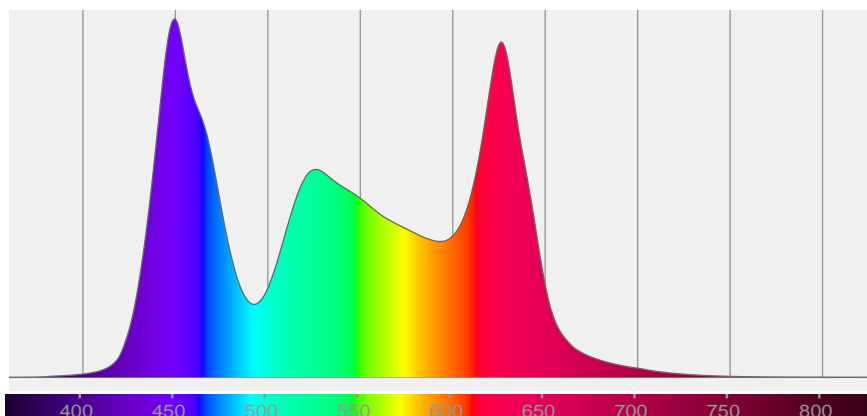


Beam angle 50%: 31,7°

Field angle 10%: 45,7°

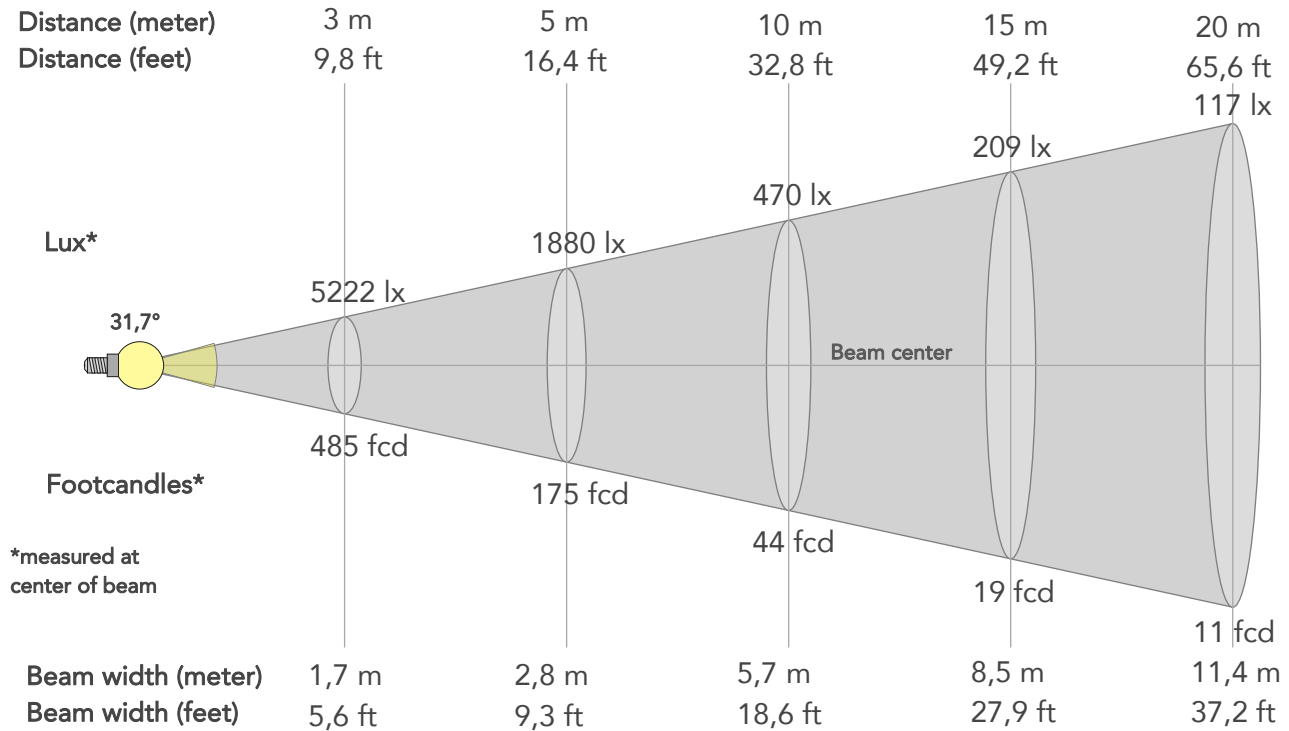
Cut off angle 2.5%: 57,5°

Spectra



BEAM DETAILS

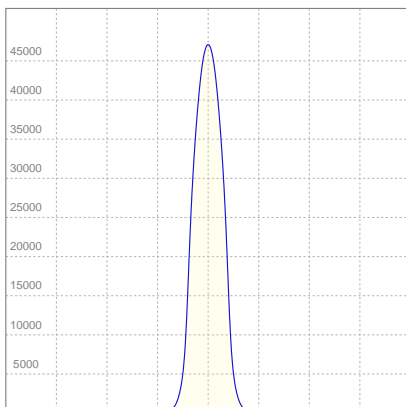
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,7°	45,7°	57,5°	94,3%	92,6%



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	46998lx	11750lx	5222lx	2937lx	1880lx	836lx	470lx	209lx	117lx	75lx	52lx	29lx	19lx
Footcand.	4366fcd	1092fcd	485fcd	273fcd	175fcd	78fcd	44fcd	19fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,3m	5,7m	8,5m	11,4m	14,2m	17m	22,7m	28,4m
Beam wid.	1,9ft	3,7ft	5,6ft	7,4ft	9,3ft	14ft	18,6ft	27,9ft	37,2ft	46,5ft	55,9ft	74,5ft	93,1ft

LINEAR DISTRIBUTION DIAGRAM

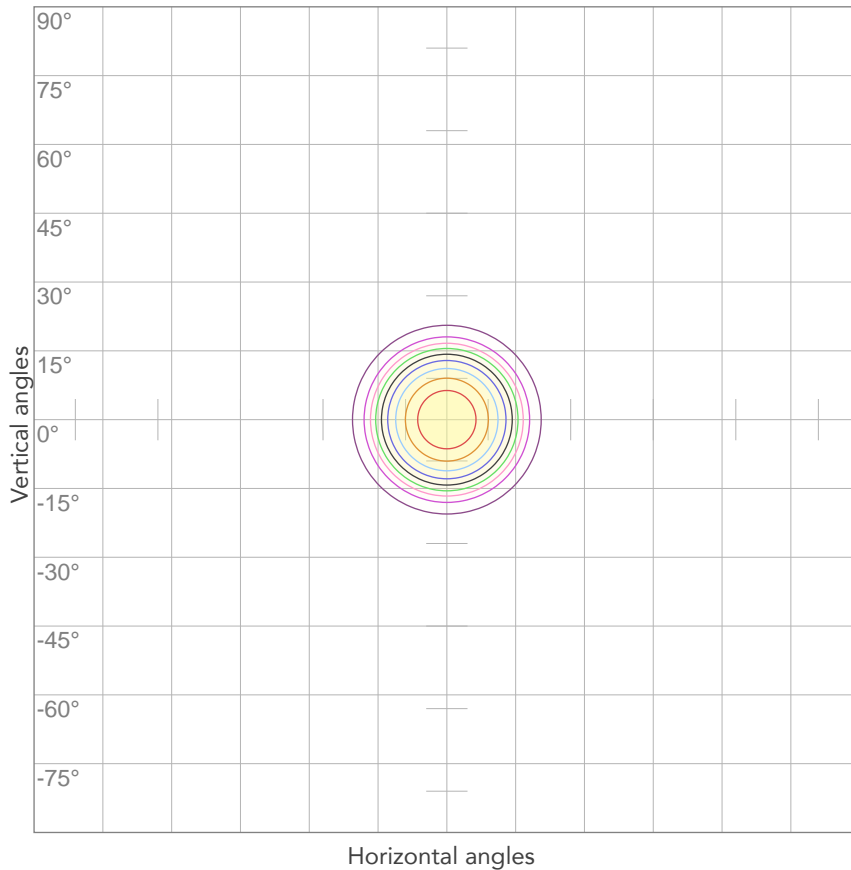


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	1,85A	389,3W	35lm/W

Power FC
0,95

ISO CANDELA DIAGRAM



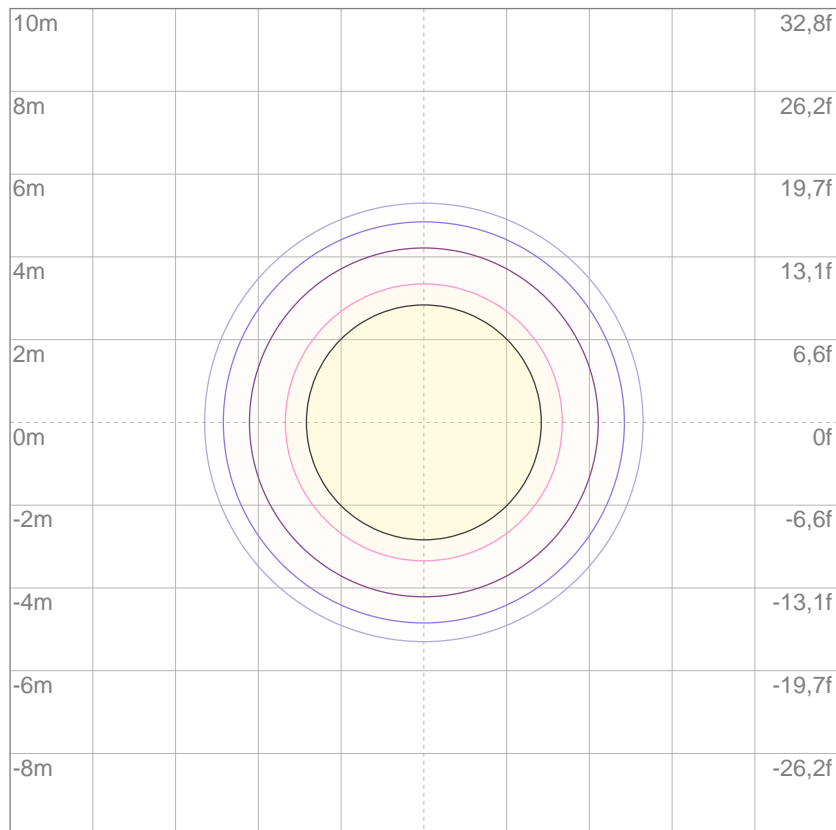
10%	4700 cd
20%	9400 cd
30%	14099 cd
40%	18799 cd
50%	23499 cd
60%	28199 cd
70%	32899 cd
80%	37598 cd

Conditions:

Number of c-planes: 2

Candela at center: 46998 cd

ISO LUX DIAGRAM



3%	14,1 lx
5%	23,5 lx
10%	47,0 lx
30%	141 lx
50%	235 lx

Conditions:

Number of c-planes: 2

Lux at center: 470 lx

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



Total lumen output:

10107 lm

Peak candela output:

96593 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

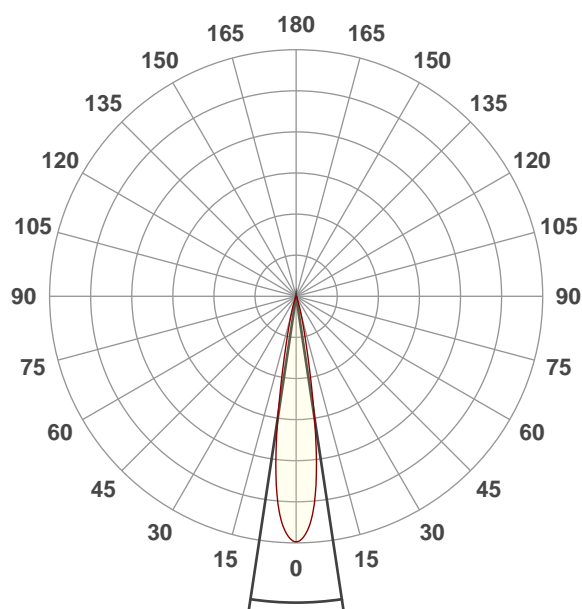
Full on

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:47:41

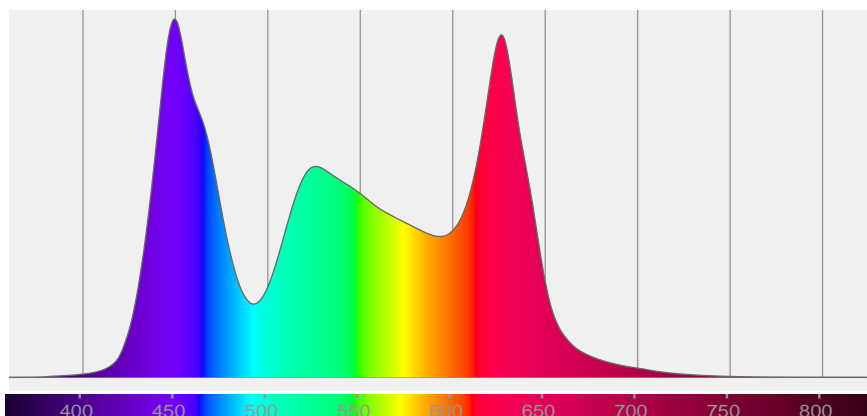


Beam angle 50%: 17,2°

Field angle 10%: 28,7°

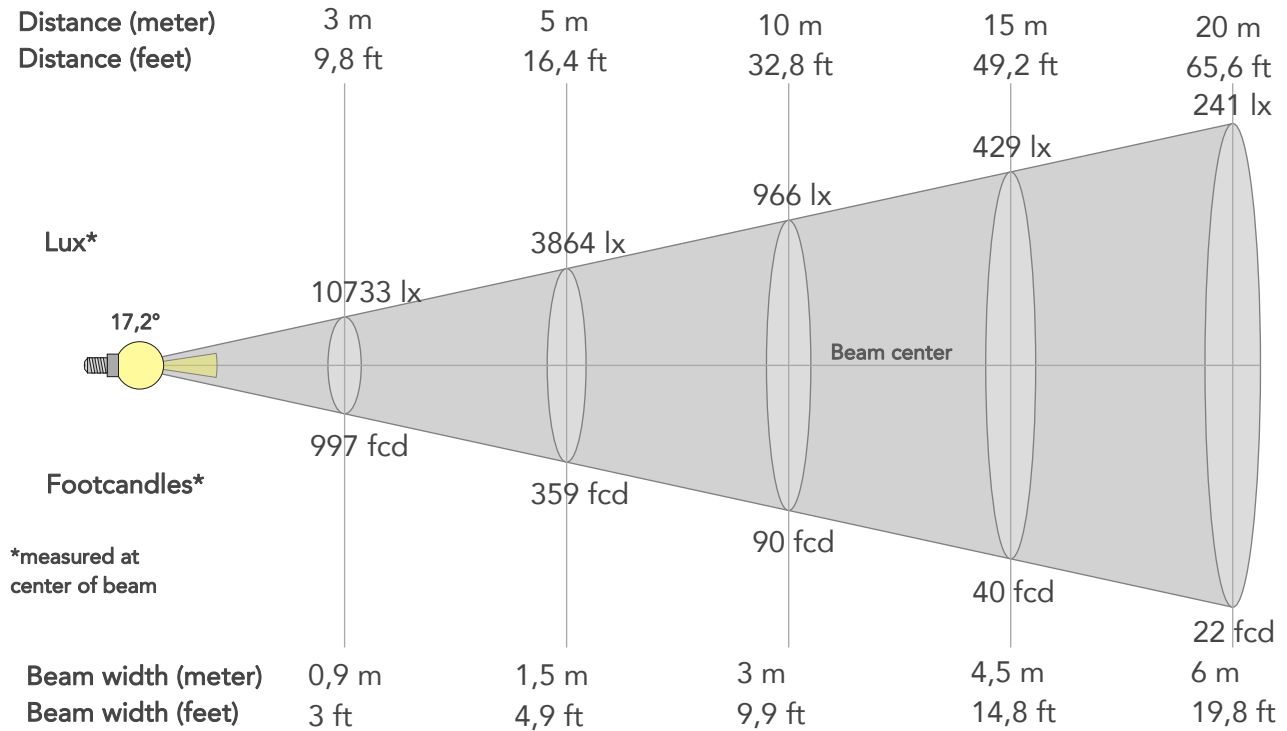
Cut off angle 2.5%: 39,1°

Spectra



BEAM DETAILS

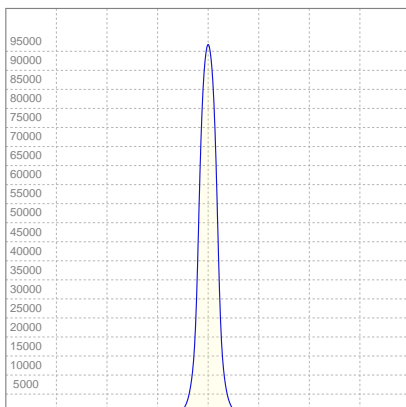
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,2°	28,7°	39,1°	95,2%	93,6%



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	96593lx	24148lx	10733lx	6037lx	3864lx	1717lx	966lx	429lx	241lx	155lx	107lx	60lx	39lx
Footcand.	8974fcd	2243fcd	997fcd	561fcd	359fcd	160fcd	90fcd	40fcd	22fcd	14fcd	10fcd	6fcd	4fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3m	4,5m	6m	7,5m	9,1m	12,1m	15,1m
Beam wid.	1ft	2ft	3ft	4ft	4,9ft	7,4ft	9,9ft	14,8ft	19,8ft	24,7ft	29,7ft	39,6ft	49,5ft

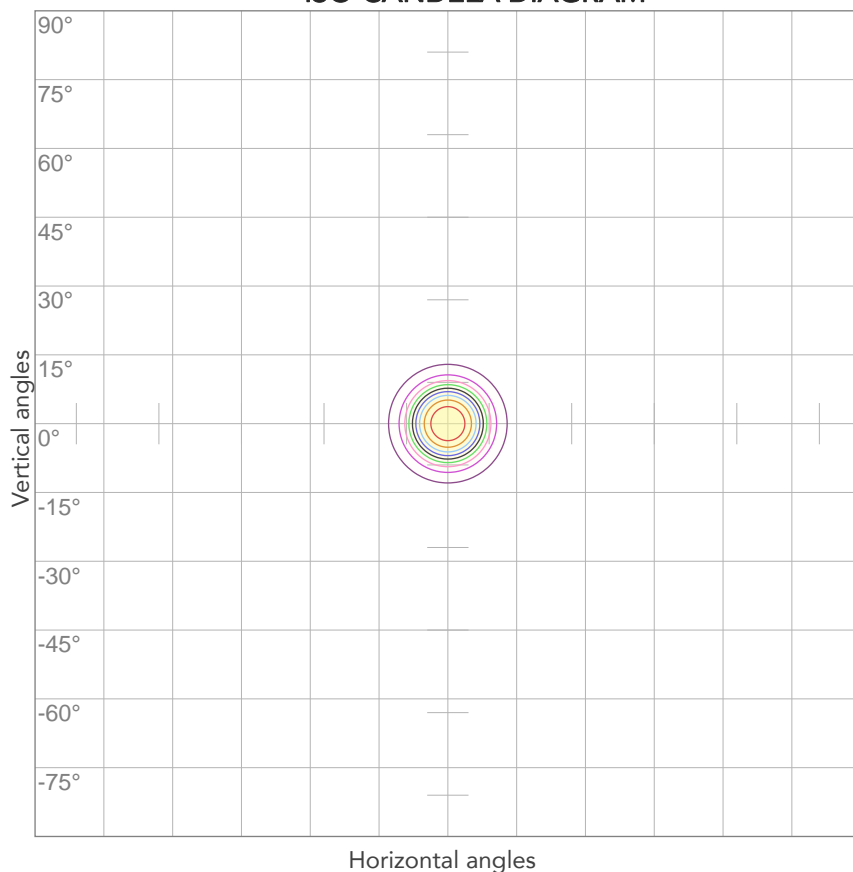
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	1,83A	387W	26lm/W
Power FC			
0,95			

ISO CANDELA DIAGRAM



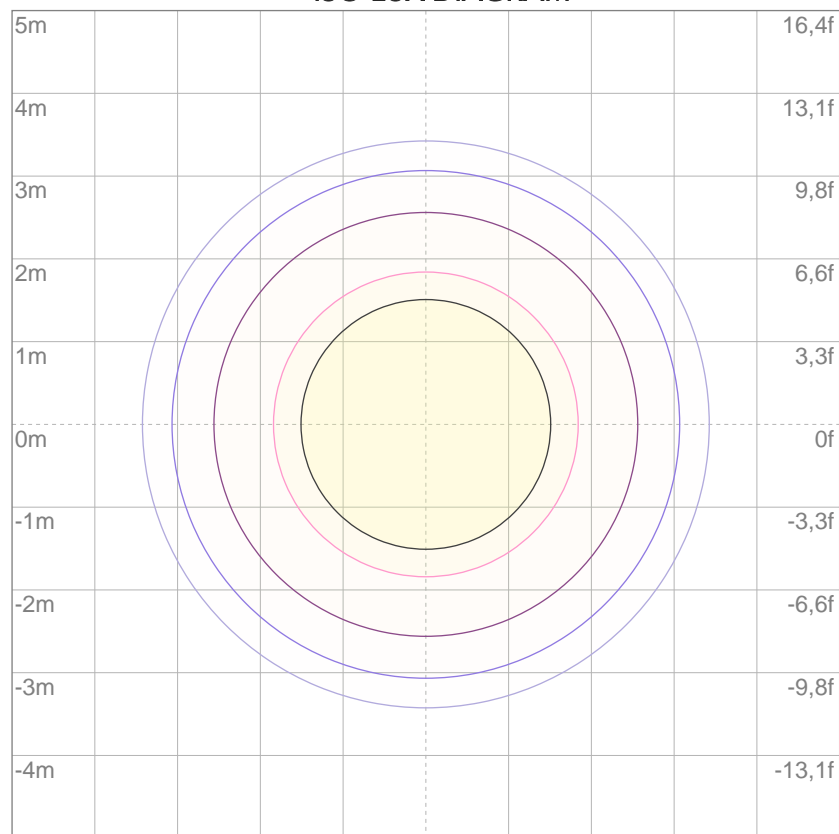
10%	9659 cd
20%	19319 cd
30%	28978 cd
40%	38637 cd
50%	48296 cd
60%	57956 cd
70%	67615 cd
80%	77274 cd

Conditions:

Number of c-planes: 2

Candela at center: 96593 cd

ISO LUX DIAGRAM



3%	29,0 lx
5%	48,3 lx
10%	96,6 lx
30%	290 lx
50%	483 lx

Conditions:

Number of c-planes: 2

Lux at center: 966 lx

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



Total lumen output:

695 lm

Peak candela output:

831 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

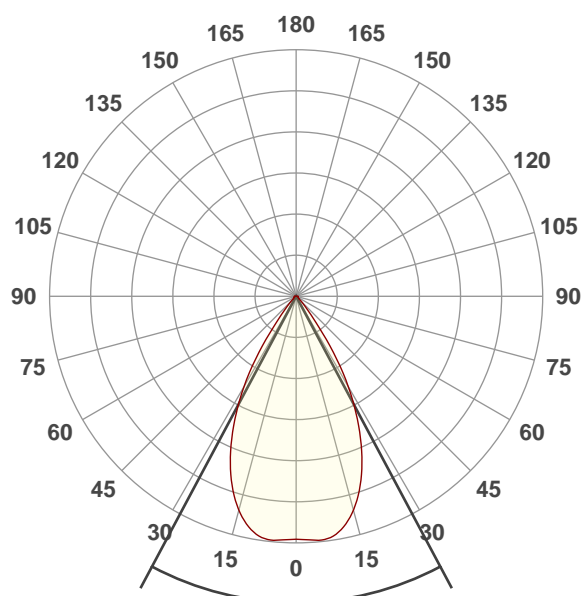
Red

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:15:19

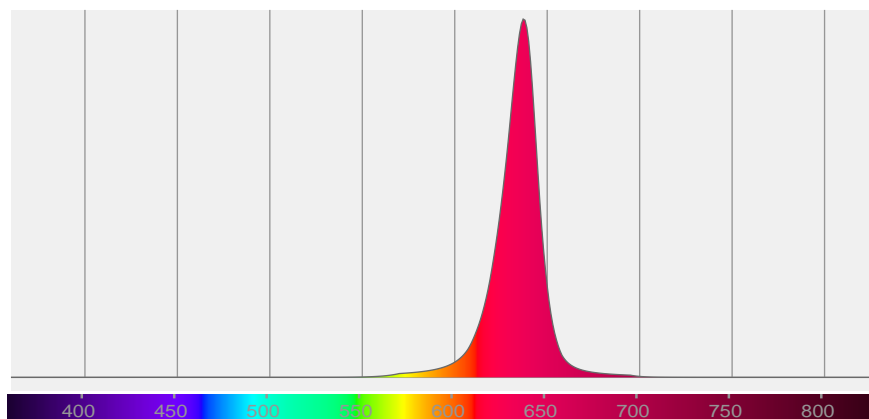


Beam angle 50%: 56,1°

Field angle 10%: 77,4°

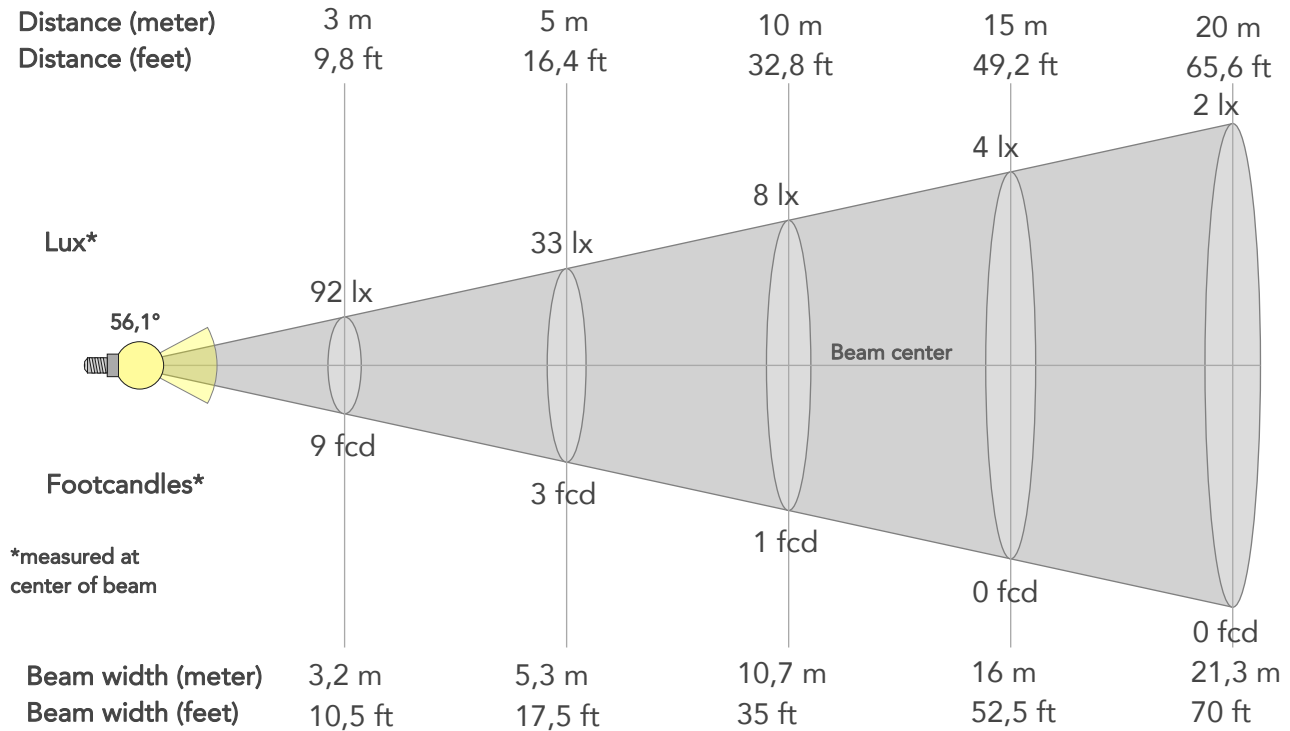
Cut off angle 2.5%: 92,9°

Spectra



BEAM DETAILS

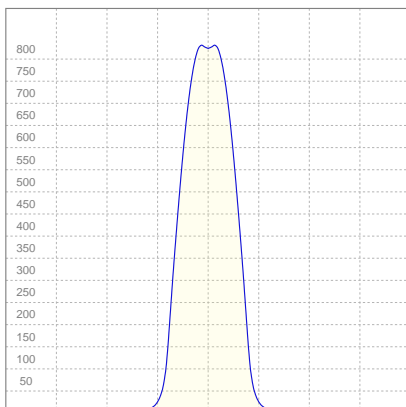
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
56,1°	77,4°	92,9°	95,5%	93,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	824lx	206lx	92lx	52lx	33lx	15lx	8lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	77fcd	19fcd	9fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,1m	3,2m	4,3m	5,3m	8m	10,7m	16m	21,3m	26,7m	32m	42,7m	53,3m
Beam wid.	3,5ft	7ft	10,5ft	14ft	17,5ft	26,2ft	35ft	52,5ft	70ft	87,5ft	105ft	139,9ft	174,9ft

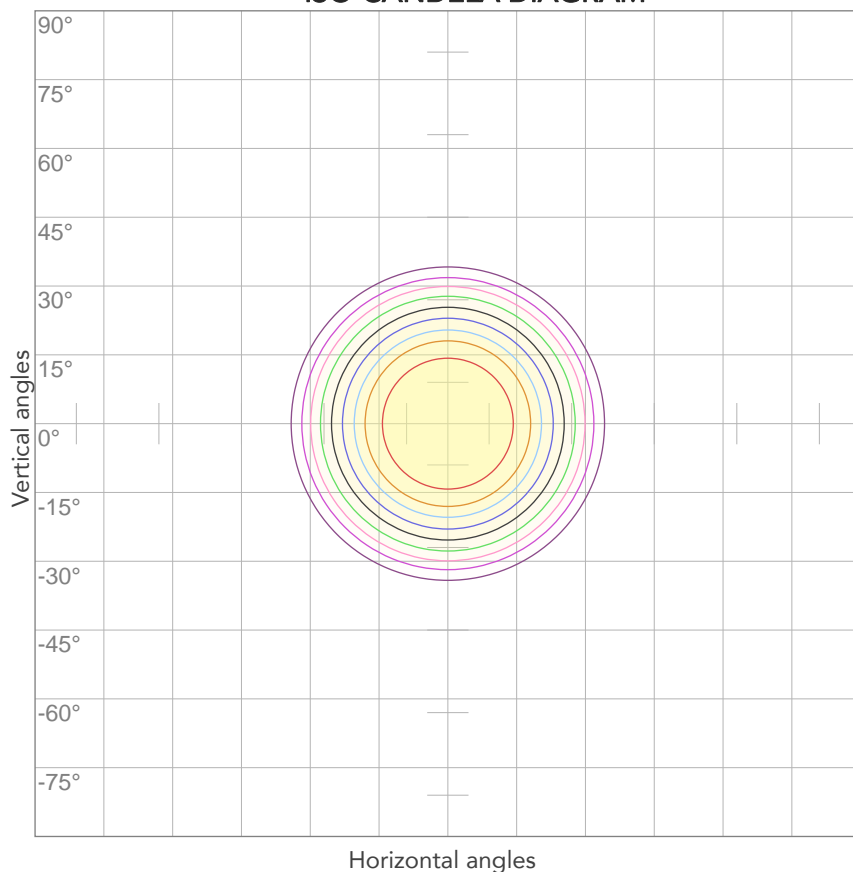
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,275A	41,3W	17lm/W
Power FC			
0,67			

ISO CANDELA DIAGRAM



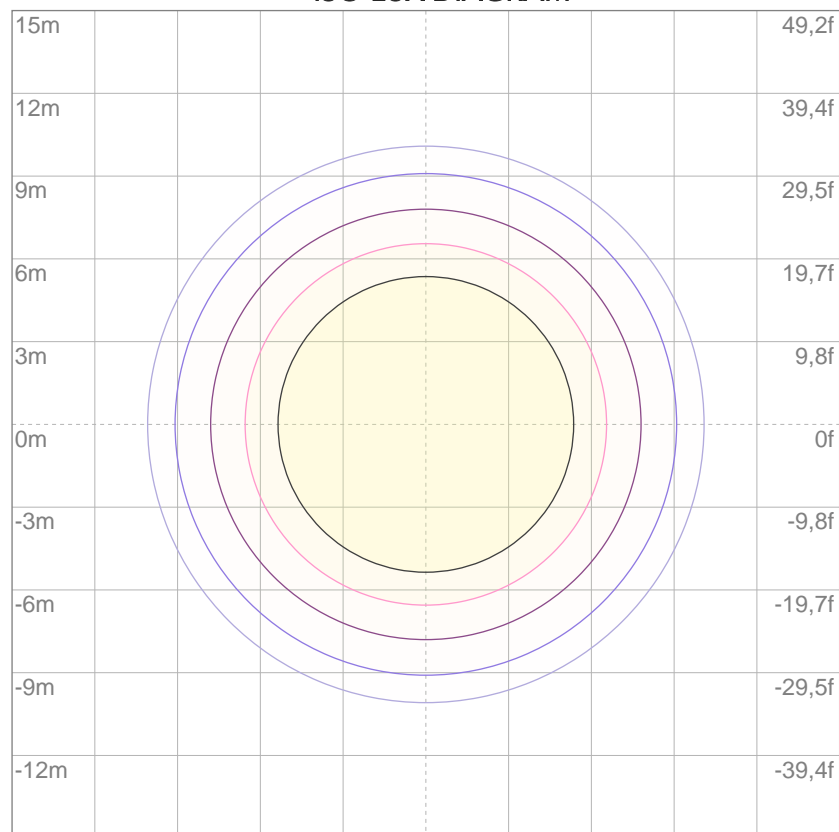
10%	82 cd
20%	165 cd
30%	247 cd
40%	330 cd
50%	412 cd
60%	495 cd
70%	577 cd
80%	659 cd

Conditions:

Number of c-planes: 2

Candela at center: 824 cd

ISO LUX DIAGRAM



3%	0,247 lx
5%	0,412 lx
10%	0,824 lx
30%	2,47 lx
50%	4,12 lx

Conditions:

Number of c-planes: 2

Lux at center: 8,24 lx

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



Total lumen output:

707 lm

Peak candela output:

2294 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

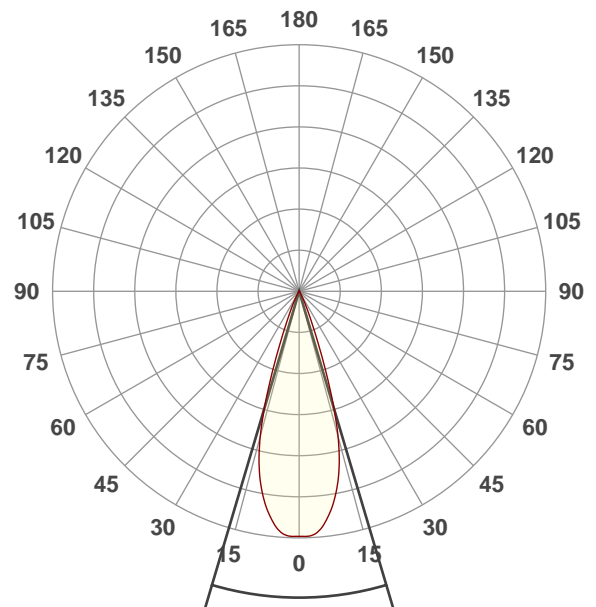
Red

Operator:

Paolo Carvone

Date and time:

30/01/2020 09:57:22

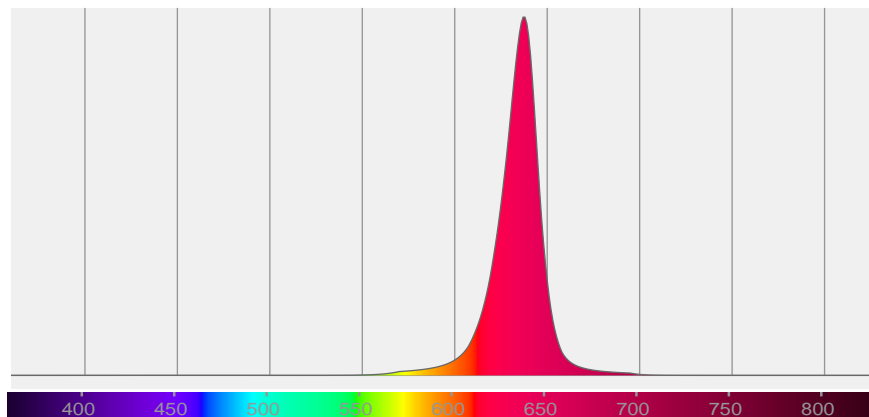


Beam angle 50%: 33,1°

Field angle 10%: 46,5°

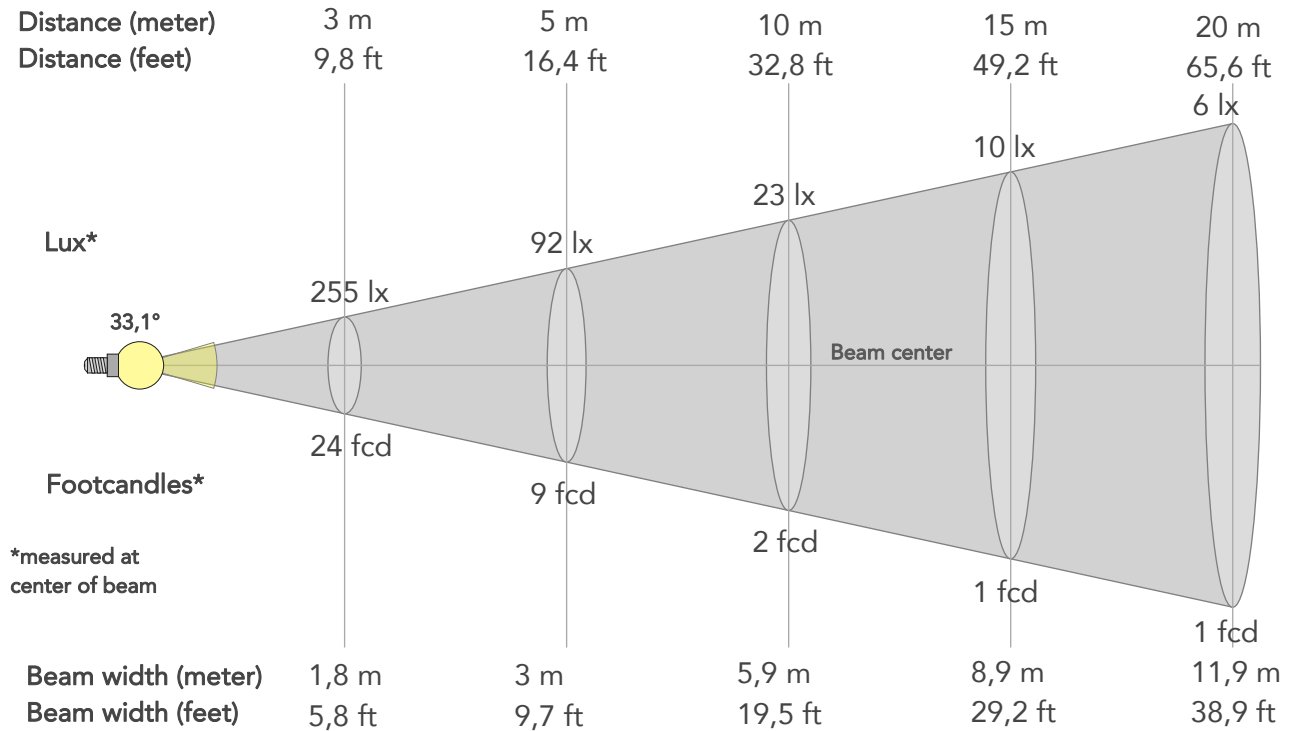
Cut off angle 2.5%: 57,9°

Spectra



BEAM DETAILS

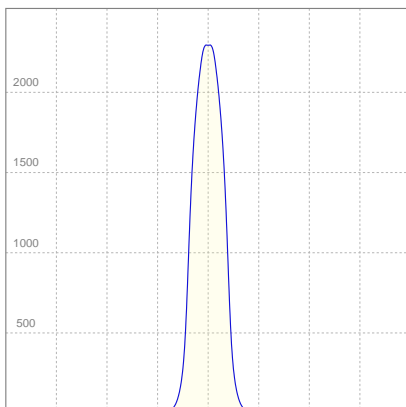
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
33,1°	46,5°	57,9°	94,7%	93,3%



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	2294lx	573lx	255lx	143lx	92lx	41lx	23lx	10lx	6lx	4lx	3lx	1lx	1lx
Footcand.	213fcd	53fcd	24fcd	13fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	3m	4,5m	5,9m	8,9m	11,9m	14,8m	17,8m	23,7m	29,7m
Beam wid.	2ft	3,9ft	5,8ft	7,8ft	9,7ft	14,6ft	19,5ft	29,2ft	38,9ft	48,7ft	58,4ft	77,9ft	97,4ft

LINEAR DISTRIBUTION DIAGRAM

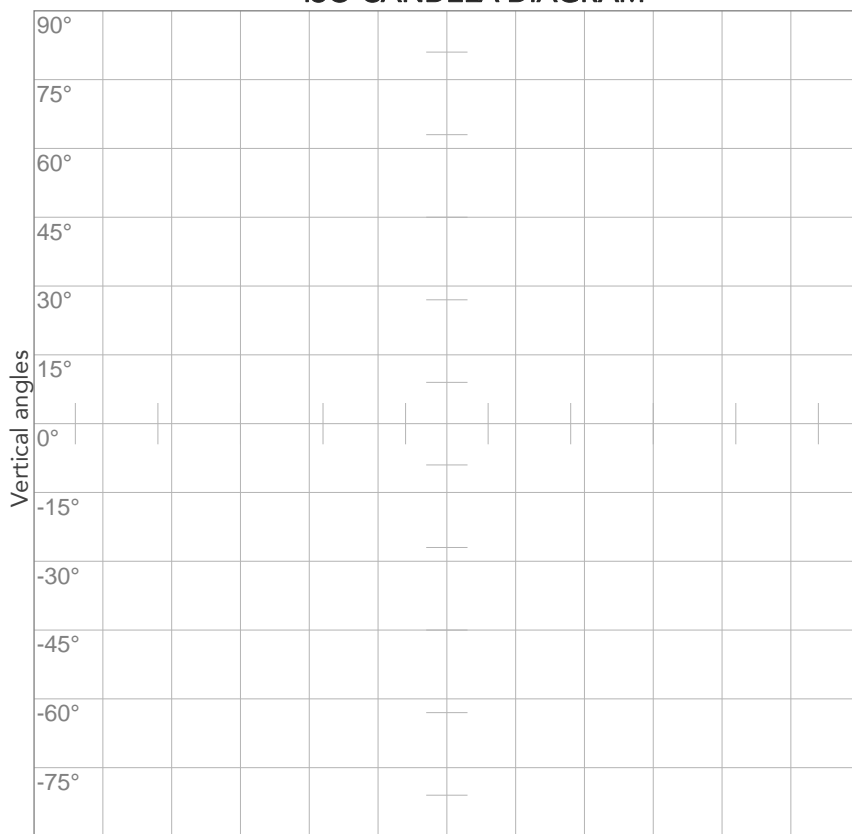


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,274A	41,5W	17lm/W

Power FC
0,68

ISO CANDELA DIAGRAM



Horizontal angles

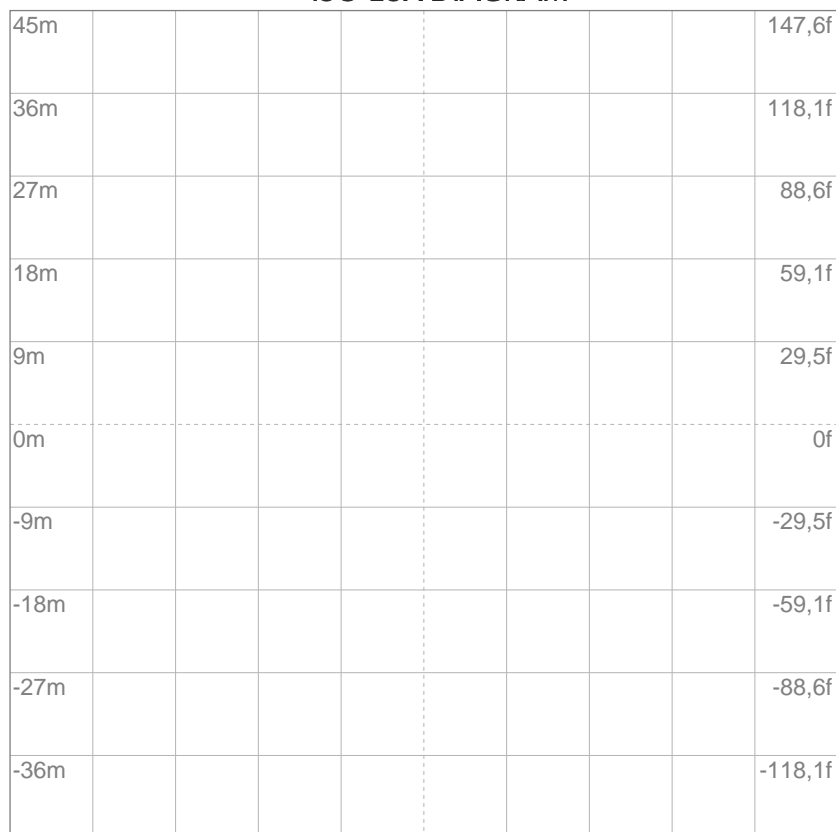
10%	229 cd
20%	459 cd
30%	688 cd
40%	917 cd
50%	1147 cd
60%	1376 cd
70%	1606 cd
80%	1835 cd

Conditions:

Number of c-planes: 2

Candela at center: 2294 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,688 lx
5%	1,15 lx
10%	2,29 lx
30%	6,88 lx
50%	11,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 22,9 lx

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



Total lumen output:

521 lm

Peak candela output:

4790 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

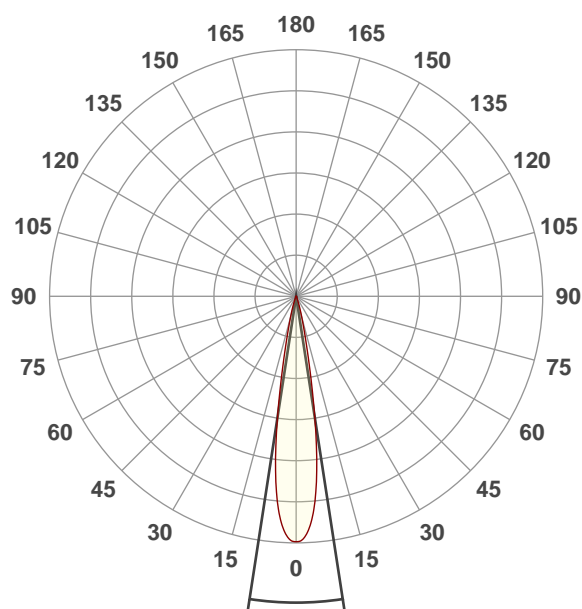
Red

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:49:19

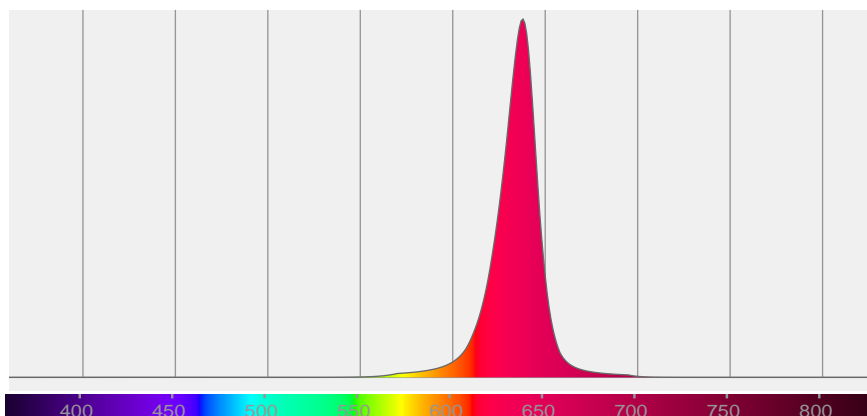


Beam angle 50%: 17,5°

Field angle 10%: 29,1°

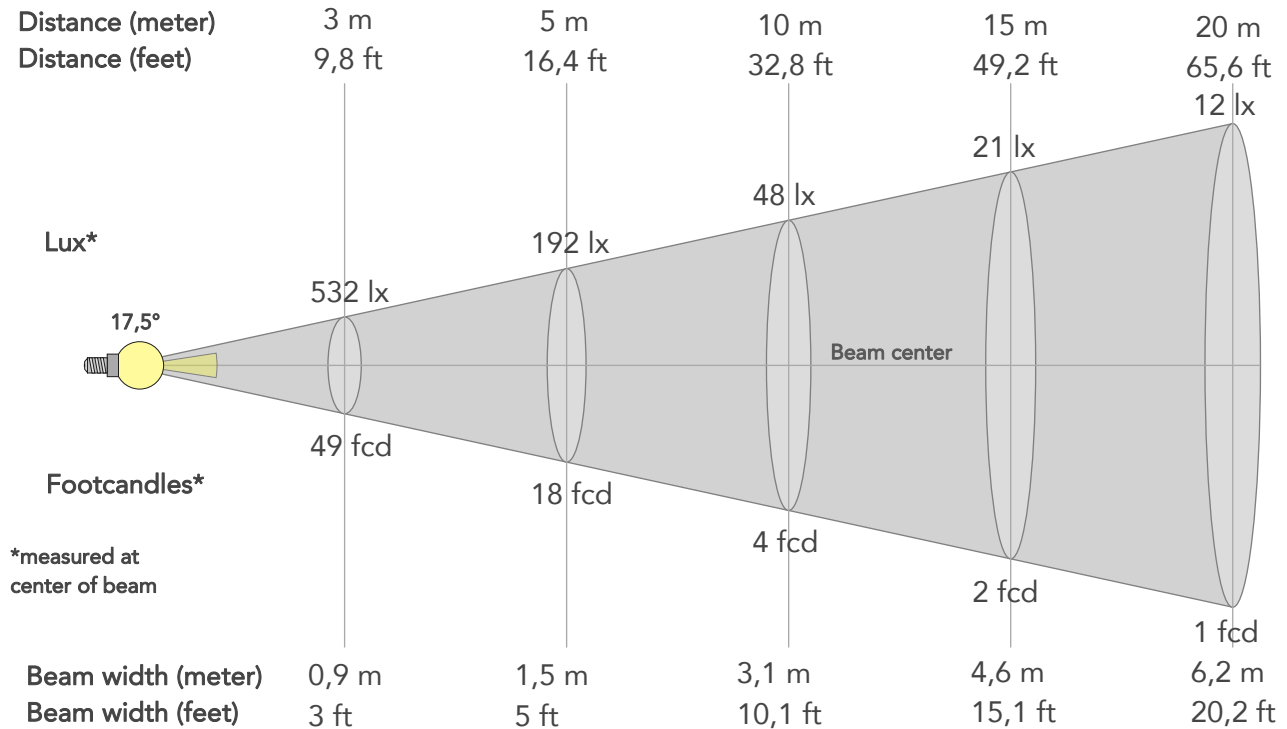
Cut off angle 2.5%: 39,3°

Spectra



BEAM DETAILS

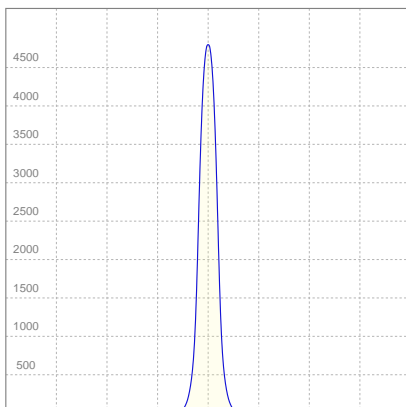
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,5°	29,1°	39,3°	94,3%	92,5%



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	4790lx	1198lx	532lx	299lx	192lx	85lx	48lx	21lx	12lx	8lx	5lx	3lx	2lx
Footcand.	445fcd	111fcd	49fcd	28fcd	18fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3,1m	4,6m	6,2m	7,7m	9,2m	12,3m	15,4m
Beam wid.	1ft	2ft	3ft	4ft	5ft	7,6ft	10,1ft	15,1ft	20,2ft	25,2ft	30,3ft	40,4ft	50,5ft

LINEAR DISTRIBUTION DIAGRAM

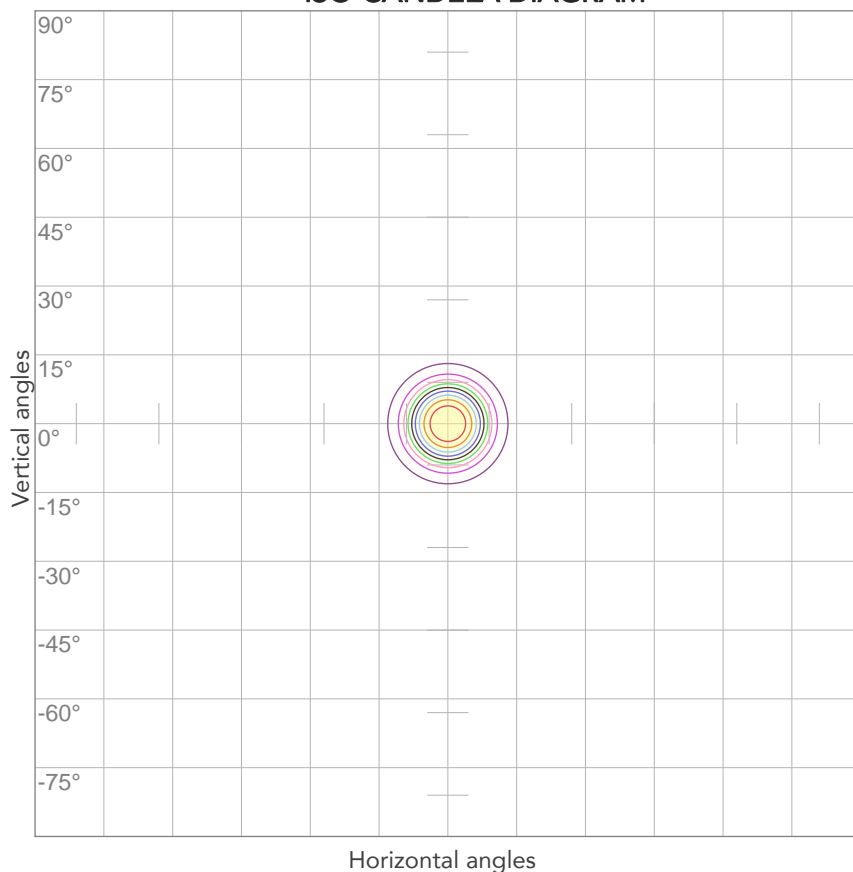


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,279A	41,3W	13lm/W

Power FC
0,66

ISO CANDELA DIAGRAM



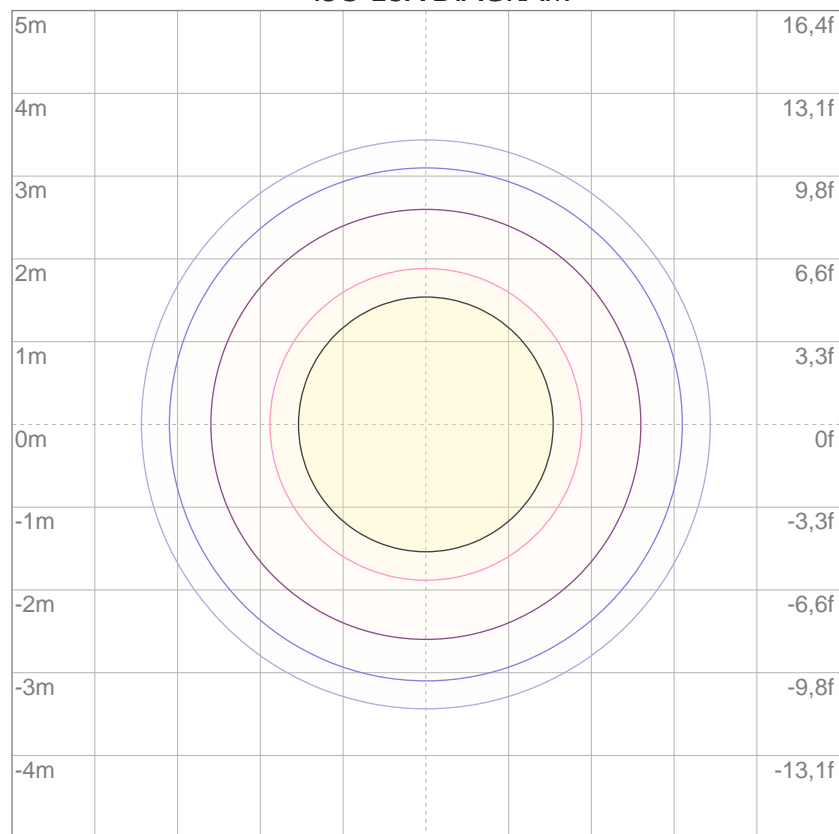
10%	479 cd
20%	958 cd
30%	1437 cd
40%	1916 cd
50%	2395 cd
60%	2874 cd
70%	3353 cd
80%	3832 cd

Conditions:

Number of c-planes: 2

Candela at center: 4790 cd

ISO LUX DIAGRAM



3%	1,44 lx
5%	2,40 lx
10%	4,79 lx
30%	14,4 lx
50%	24,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 47,9 lx

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



Total lumen output:

1976 lm

Peak candela output:

2608 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

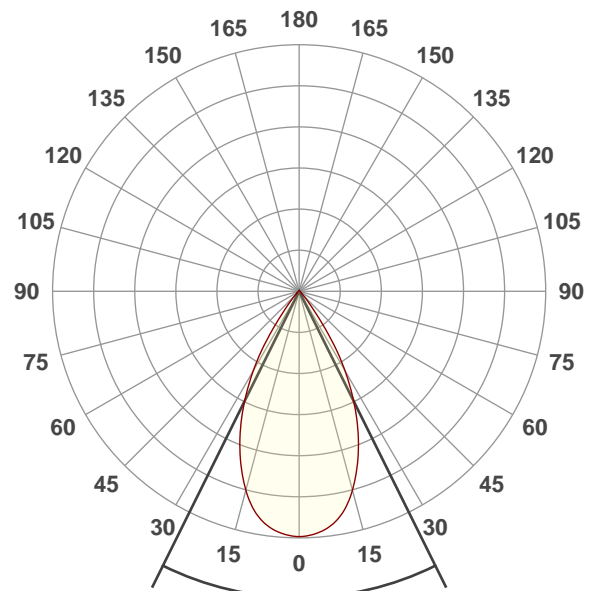
Orange

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:18:50

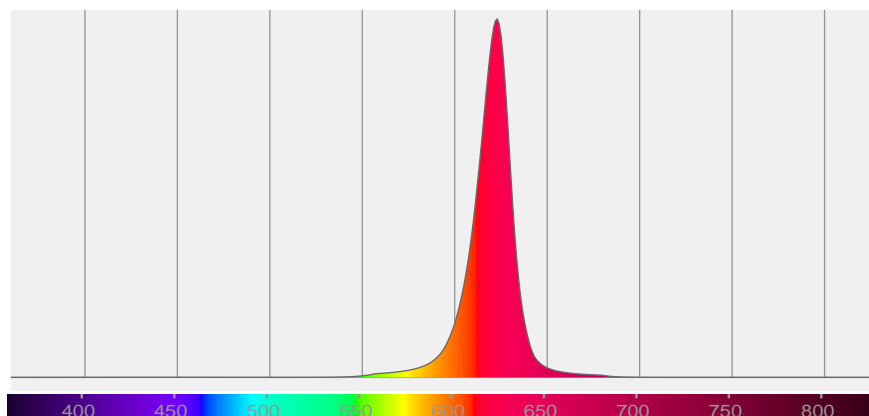


Beam angle 50%: 52,8°

Field angle 10%: 75,6°

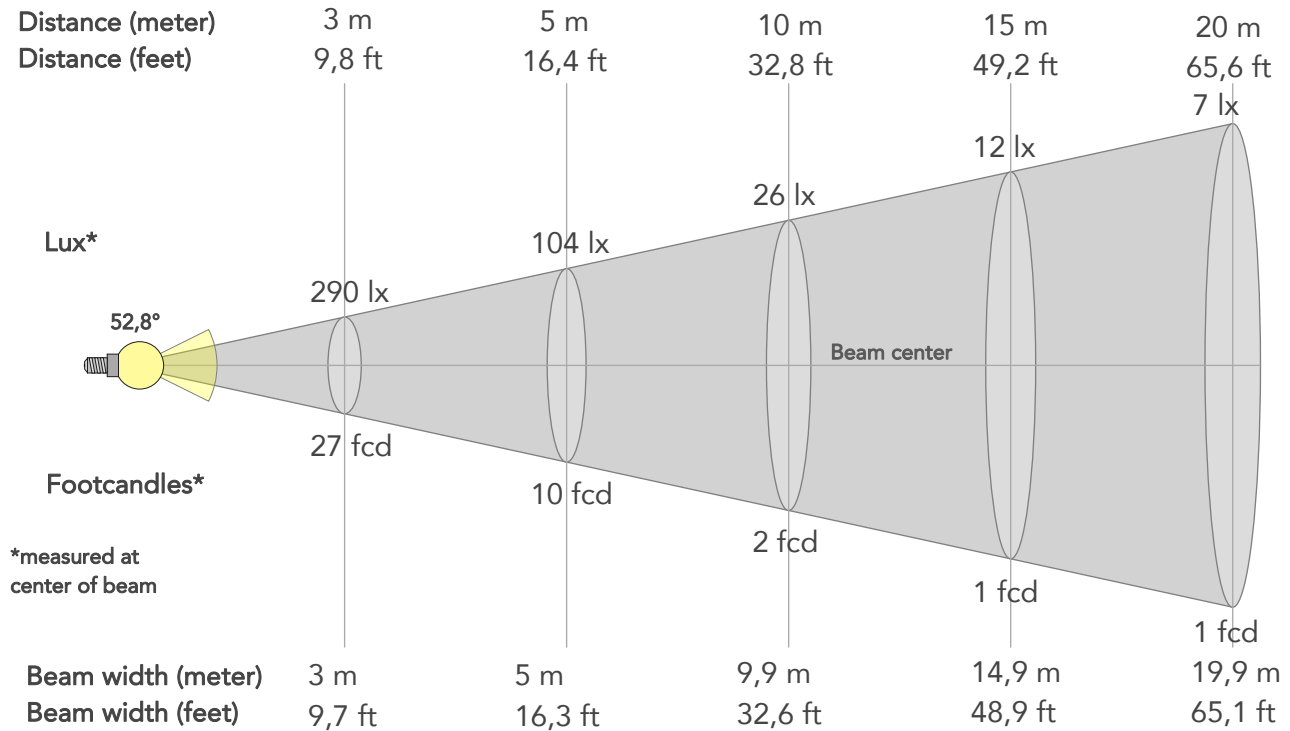
Cut off angle 2.5%: 91,1°

Spectra



BEAM DETAILS

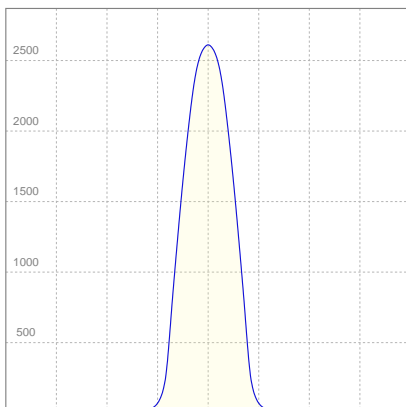
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,8°	75,6°	91,1°	95,7%	93,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2608lx	652lx	290lx	163lx	104lx	46lx	26lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	242fcd	61fcd	27fcd	15fcd	10fcd	4fcd	2fcd	1fcd	1fcd	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	49,6m
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	162,8ft

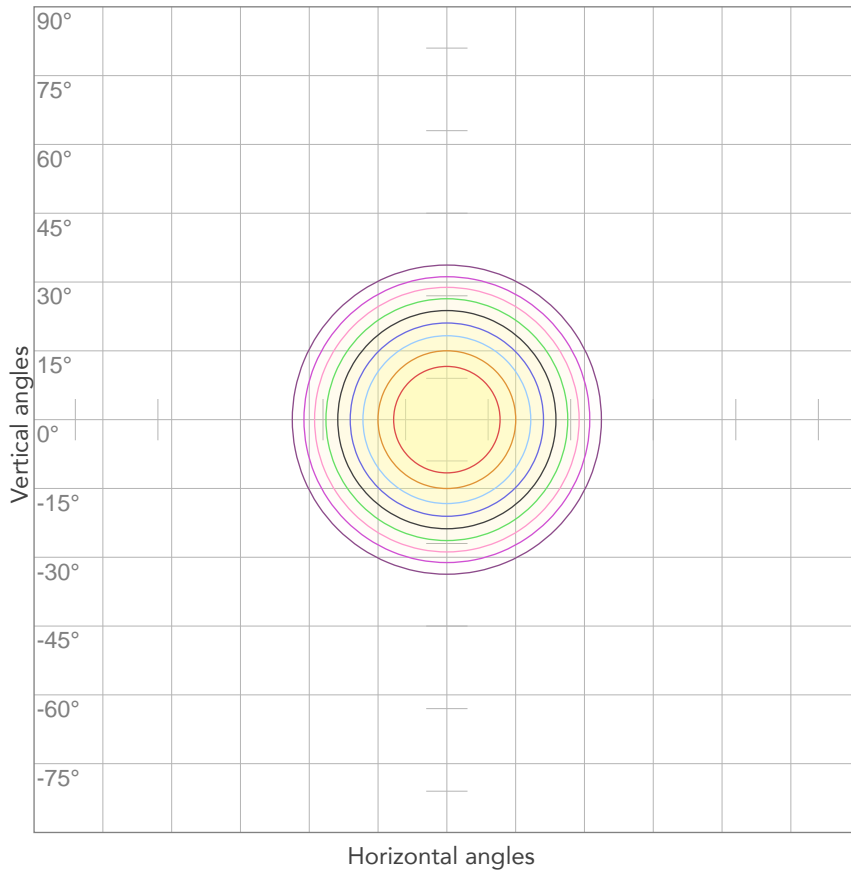
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,345A	56,2W	35lm/W
Power FC			
0,73			

ISO CANDELA DIAGRAM



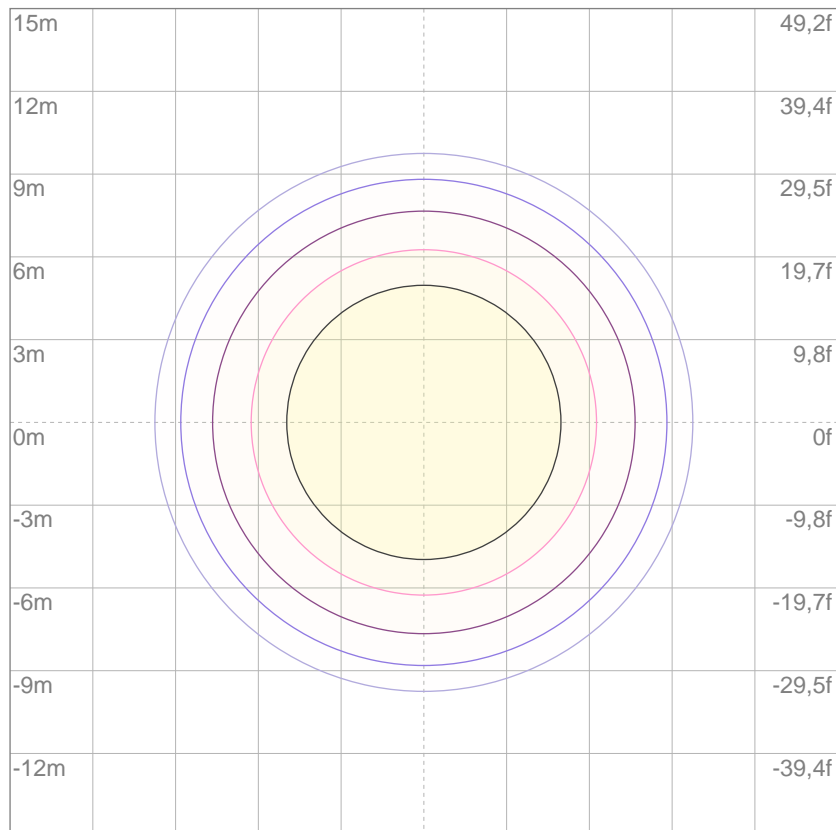
10%	261 cd
20%	522 cd
30%	783 cd
40%	1043 cd
50%	1304 cd
60%	1565 cd
70%	1826 cd
80%	2087 cd

Conditions:

Number of c-planes: 2

Candela at center: 2608 cd

ISO LUX DIAGRAM



3%	0,783 lx
5%	1,30 lx
10%	2,61 lx
30%	7,83 lx
50%	13,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 26,1 lx

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



Total lumen output:

2336 lm

Peak candela output:

8109 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

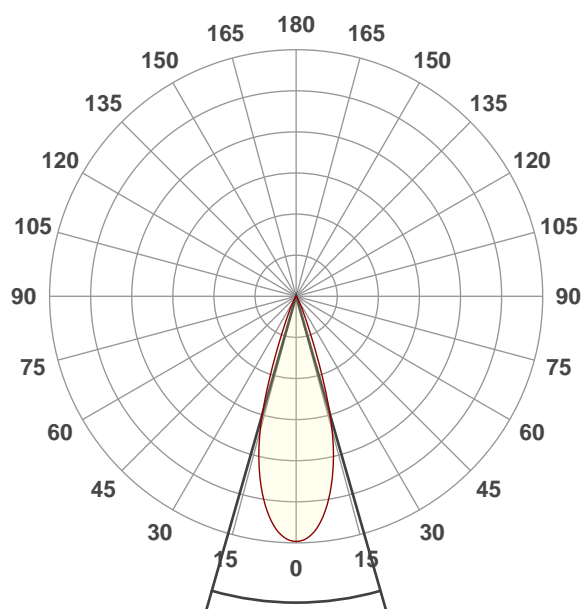
Orange

Operator:

Paolo Carvone

Date and time:

30/01/2020 09:59:49

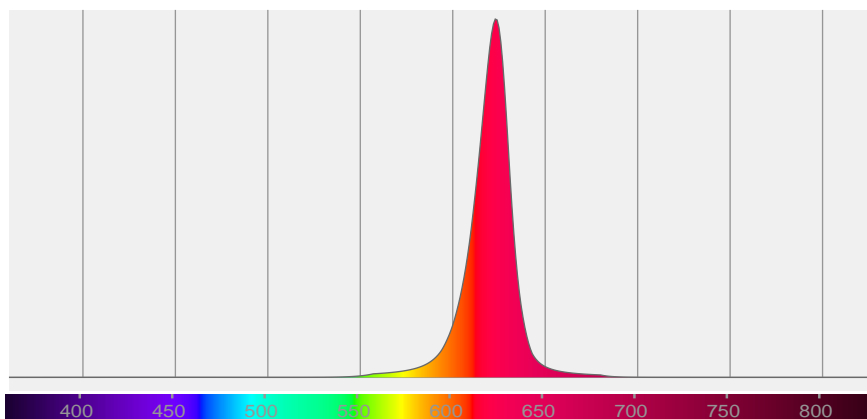


Beam angle 50%: 32°

Field angle 10%: 45,8°

Cut off angle 2.5%: 57,2°

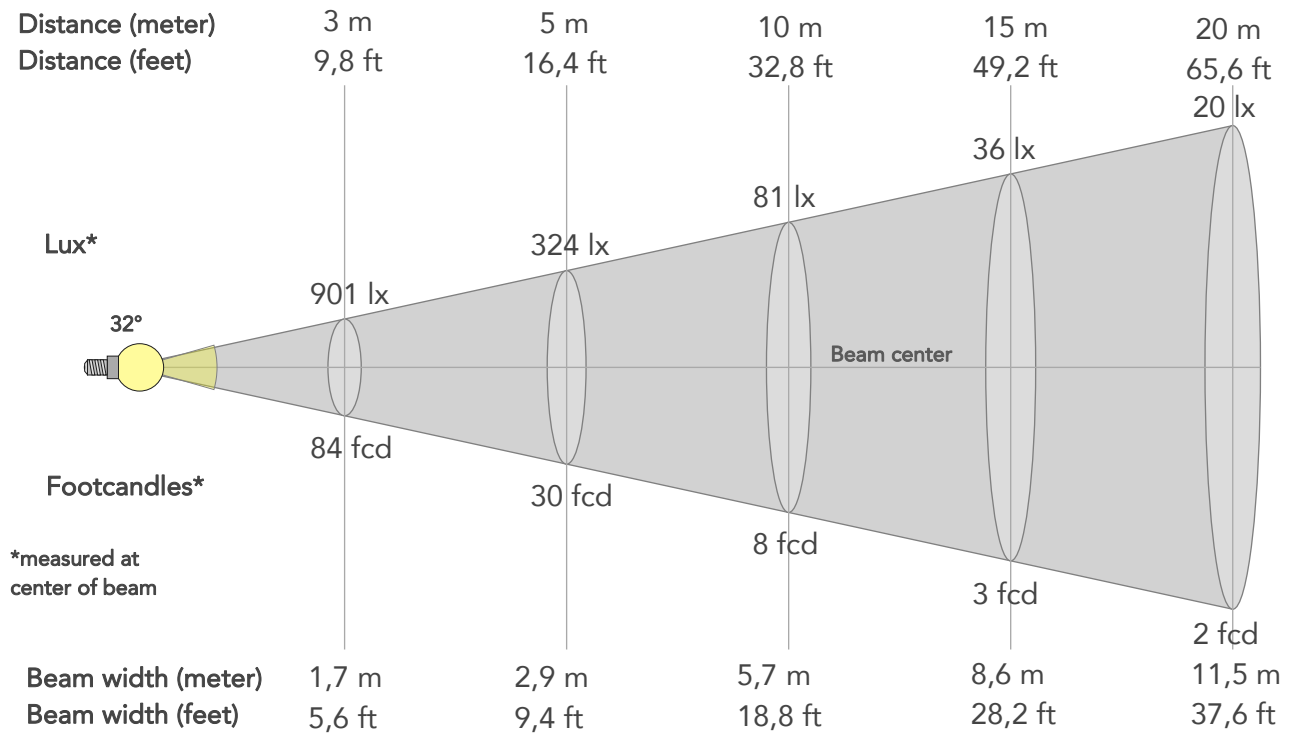
Spectra



BEAM DETAILS



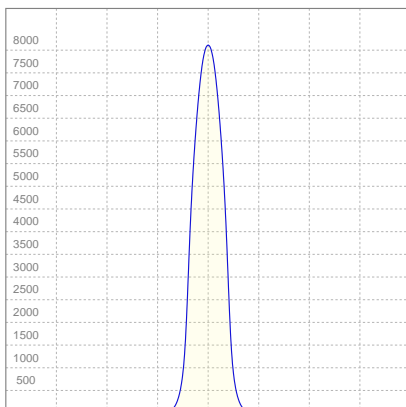
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32°	45,8°	57,2°	94,8%	93,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	8109lx	2027lx	901lx	507lx	324lx	144lx	81lx	36lx	20lx	13lx	9lx	5lx	3lx
Footcand.	753fcd	188fcd	84fcd	47fcd	30fcd	13fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,9m	4,3m	5,7m	8,6m	11,5m	14,3m	17,2m	22,9m	28,6m
Beam wid.	1,9ft	3,8ft	5,6ft	7,5ft	9,4ft	14,1ft	18,8ft	28,2ft	37,6ft	47ft	56,4ft	75,2ft	93,9ft

LINEAR DISTRIBUTION DIAGRAM

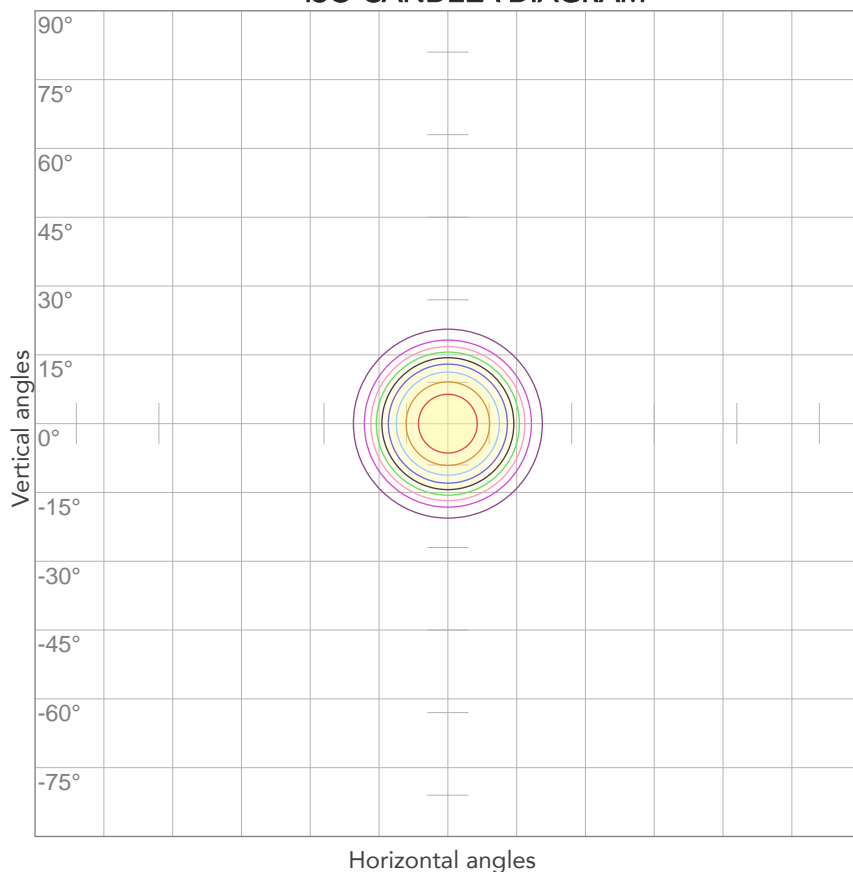


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,387A	65,2W	36lm/W

Power FC
0,75

ISO CANDELA DIAGRAM



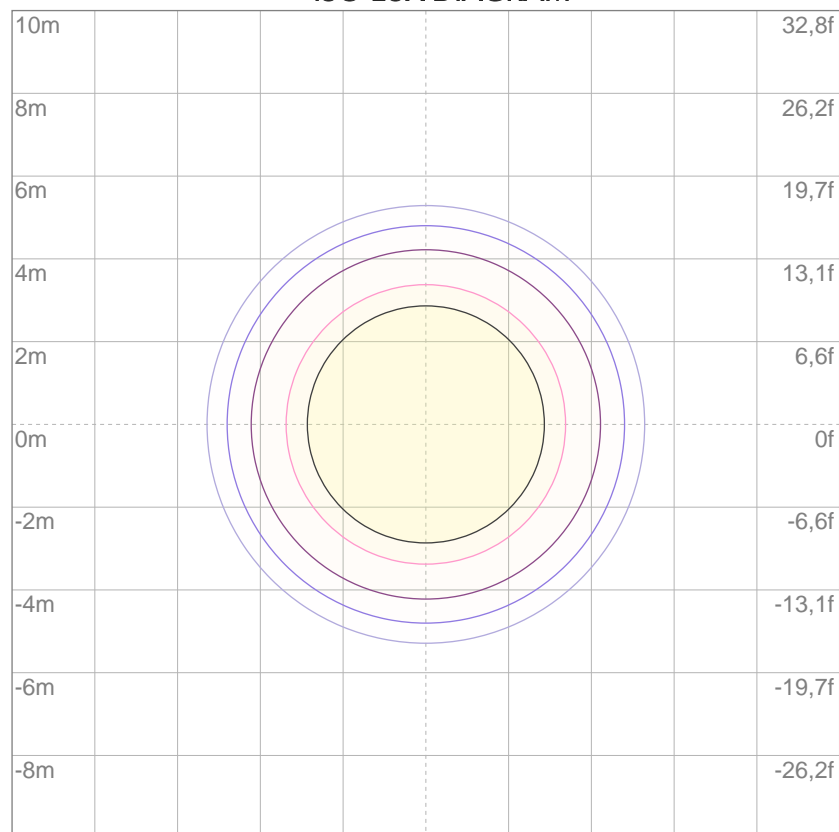
10%	811 cd
20%	1622 cd
30%	2433 cd
40%	3243 cd
50%	4054 cd
60%	4865 cd
70%	5676 cd
80%	6487 cd

Conditions:

Number of c-planes: 2

Candela at center: 8109 cd

ISO LUX DIAGRAM



3%	2,43 lx
5%	4,05 lx
10%	8,11 lx
30%	24,3 lx
50%	40,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 81,1 lx

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



Total lumen output:

1751 lm

Peak candela output:

16839 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

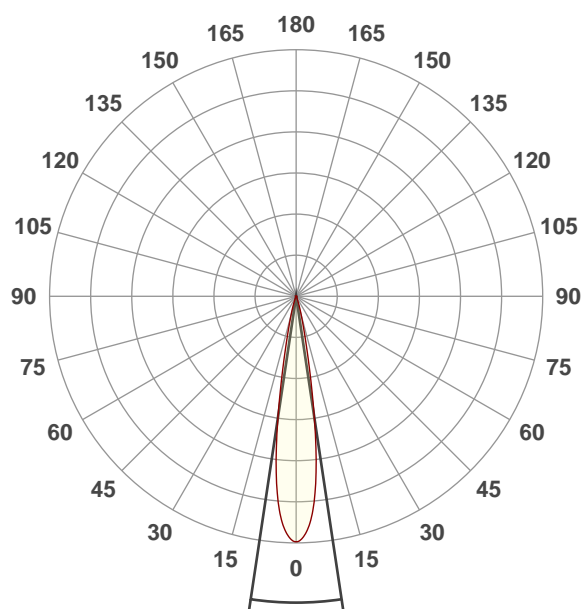
Orange

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:51:04

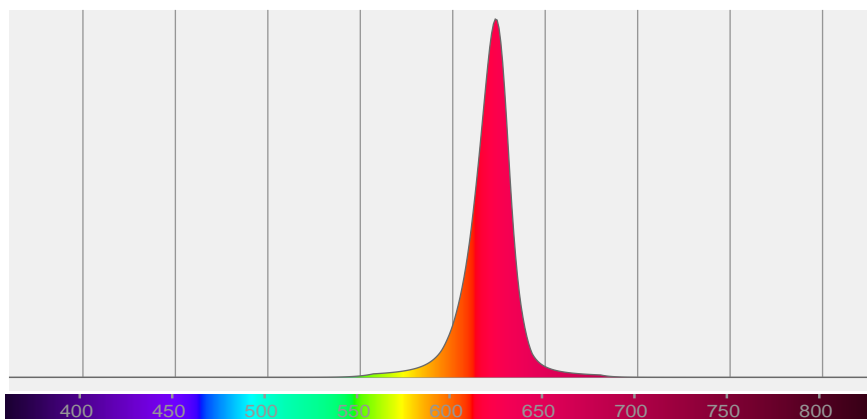


Beam angle 50%: 17,1°

Field angle 10%: 28,6°

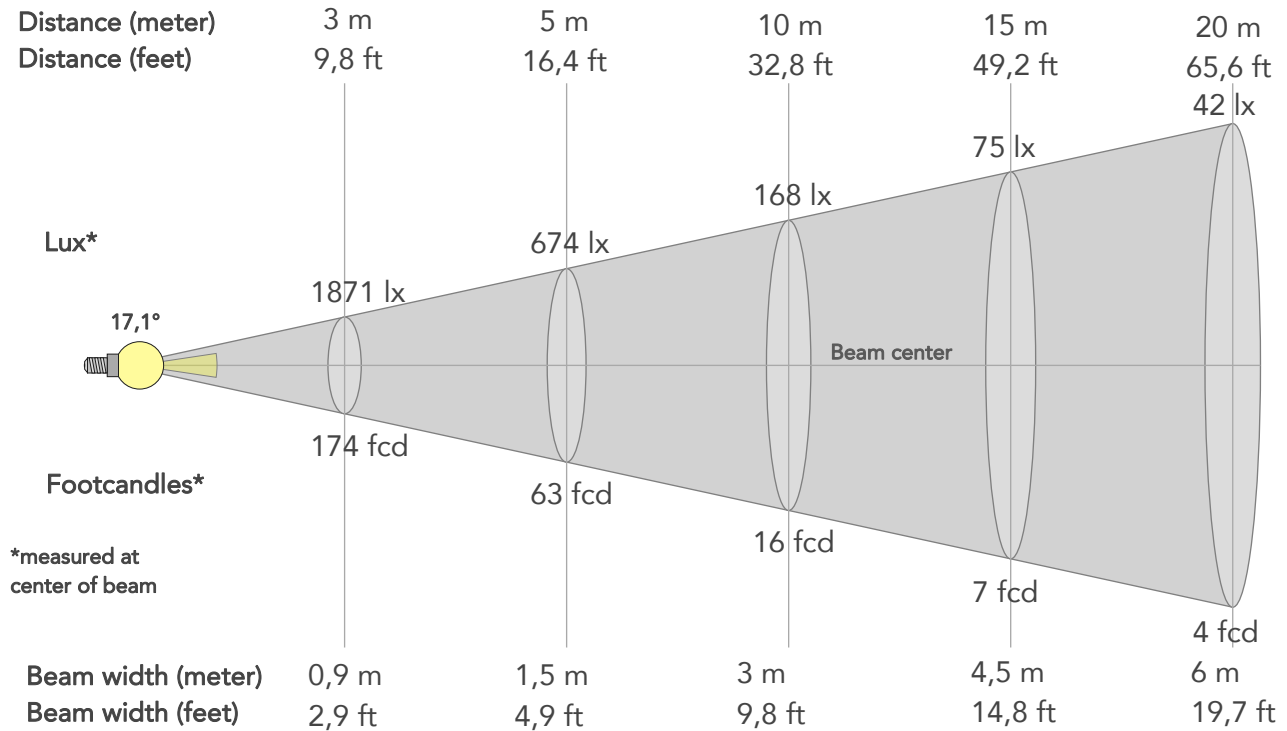
Cut off angle 2.5%: 38,8°

Spectra



BEAM DETAILS

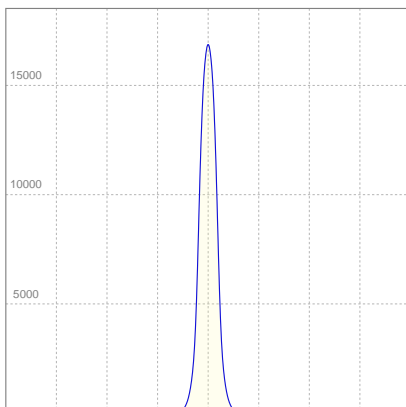
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,1°	28,6°	38,8°	94,6%	92,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	16839lx	4210lx	1871lx	1052lx	674lx	299lx	168lx	75lx	42lx	27lx	19lx	11lx	7lx
Footcand.	1564fcd	391fcd	174fcd	98fcd	63fcd	28fcd	16fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3m	4,5m	6m	7,5m	9m	12m	15m
Beam wid.	1ft	2ft	2,9ft	3,9ft	4,9ft	7,4ft	9,8ft	14,8ft	19,7ft	24,6ft	29,5ft	39,4ft	49,2ft

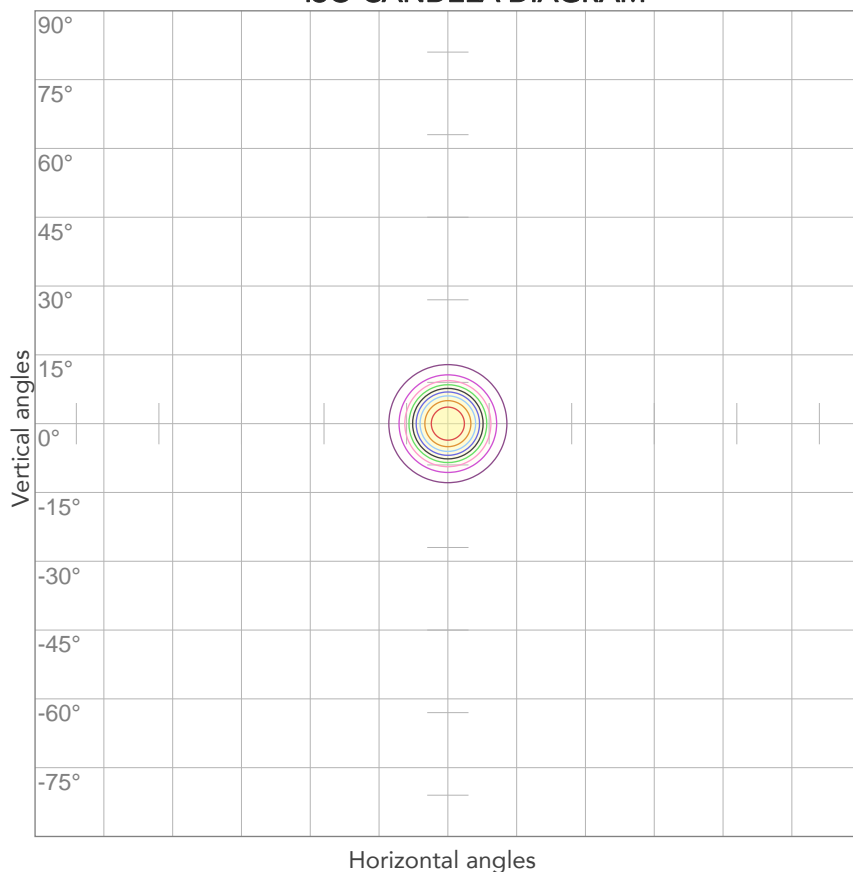
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,387A	64,7W	27lm/W
Power FC			
0,75			

ISO CANDELA DIAGRAM



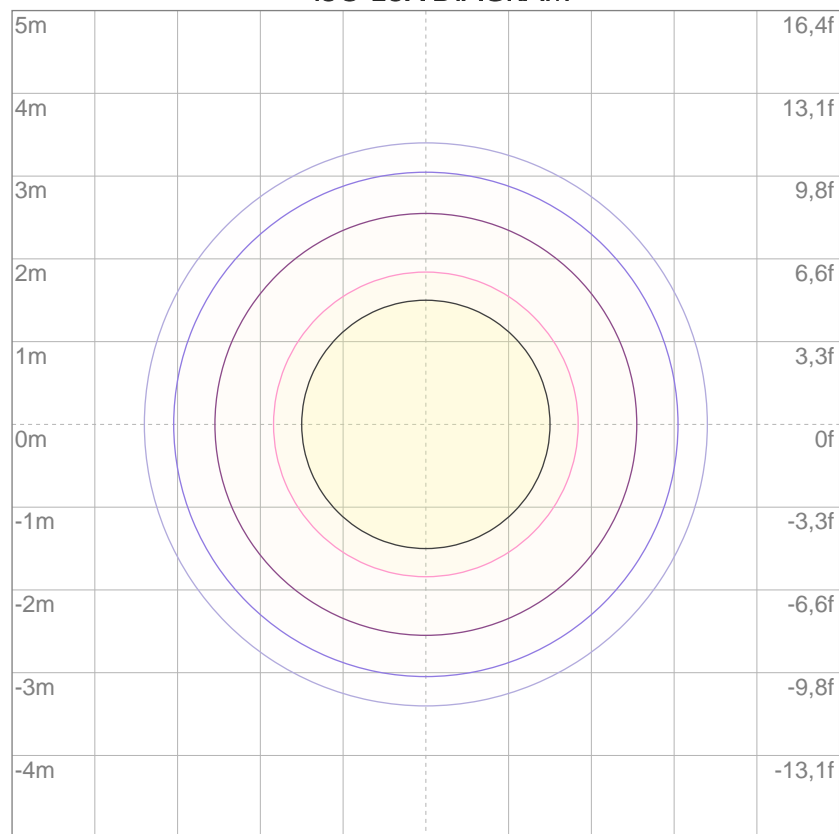
10%	1684 cd
20%	3368 cd
30%	5052 cd
40%	6736 cd
50%	8420 cd
60%	10103 cd
70%	11787 cd
80%	13471 cd

Conditions:

Number of c-planes: 2

Candela at center: 16839 cd

ISO LUX DIAGRAM



3%	5,05 lx
5%	8,42 lx
10%	16,8 lx
30%	50,5 lx
50%	84,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 168 lx

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



Total lumen output:

1507 lm

Peak candela output:

1793 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

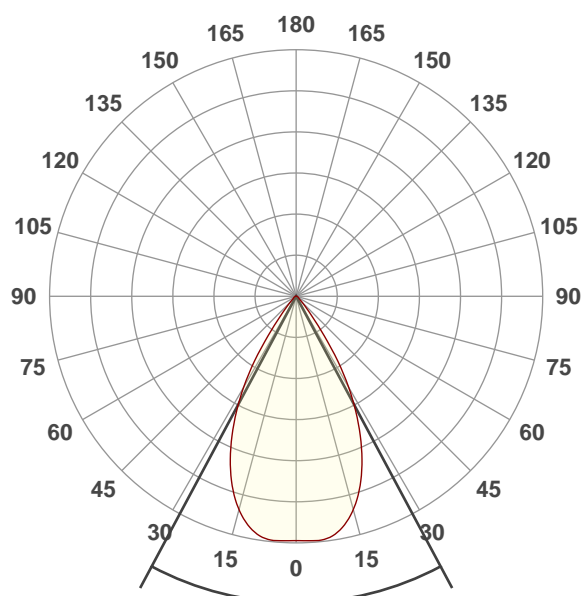
Green

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:20:59

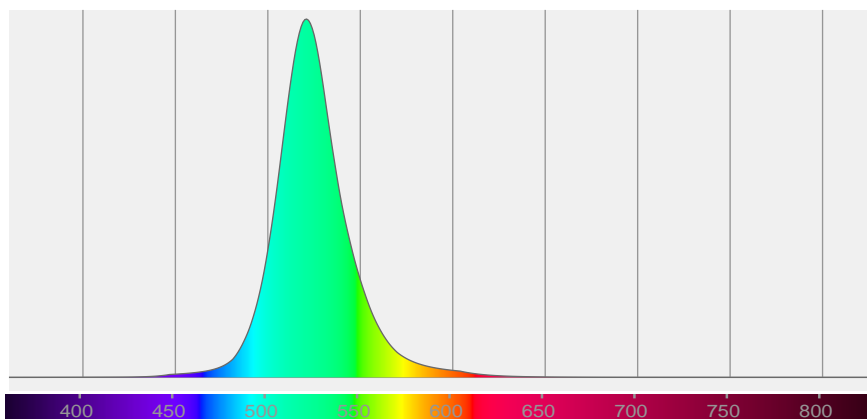


Beam angle 50%: 56,3°

Field angle 10%: 77,7°

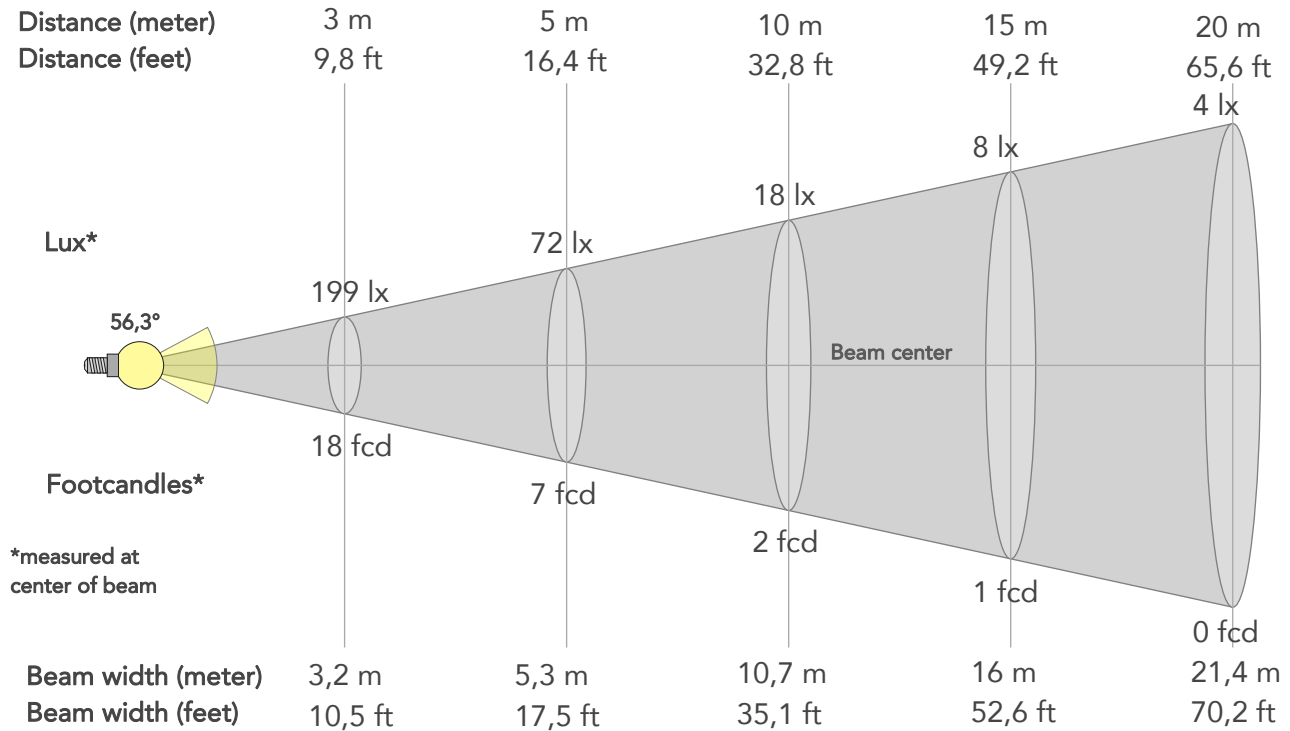
Cut off angle 2.5%: 94,9°

Spectra



BEAM DETAILS

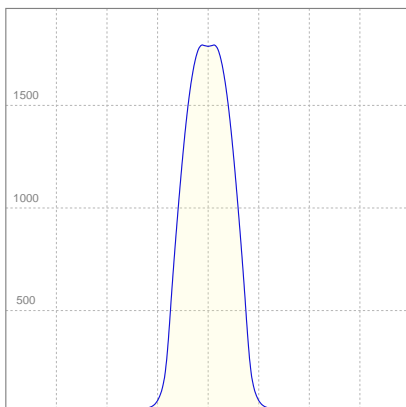
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
56,3°	77,7°	94,9°	95,7%	93,0%



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	1788lx	447lx	199lx	112lx	72lx	32lx	18lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	166fcd	42fcd	18fcd	10fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,1m	3,2m	4,3m	5,3m	8m	10,7m	16m	21,4m	26,7m	32,1m	42,8m	53,5m
Beam wid.	3,5ft	7,1ft	10,5ft	14ft	17,5ft	26,3ft	35,1ft	52,6ft	70,2ft	87,7ft	105,3ft	140,3ft	175,4ft

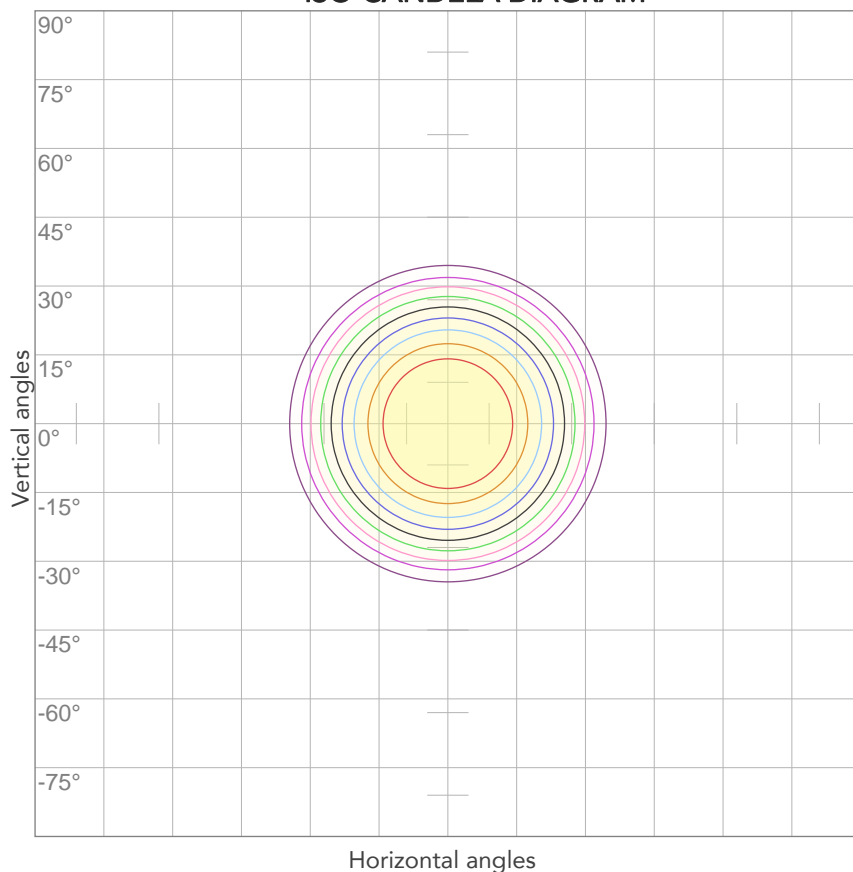
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,326A	52,2W	29lm/W
Power FC			
0,72			

ISO CANDELA DIAGRAM



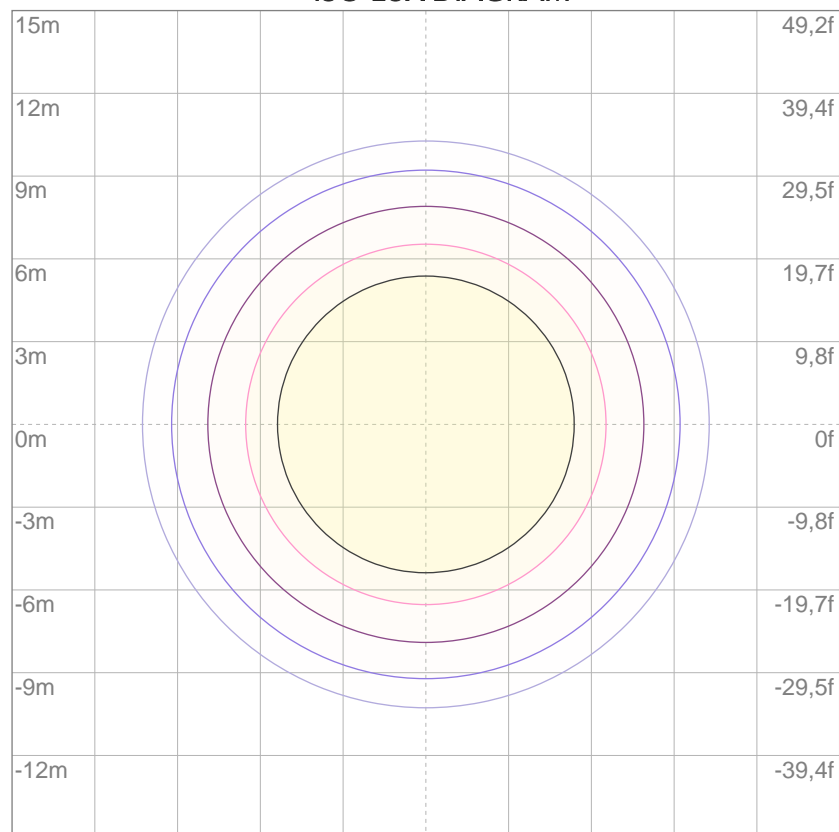
10%	179 cd
20%	358 cd
30%	536 cd
40%	715 cd
50%	894 cd
60%	1073 cd
70%	1252 cd
80%	1430 cd

Conditions:

Number of c-planes: 2

Candela at center: 1788 cd

ISO LUX DIAGRAM



3%	0,536 lx
5%	0,894 lx
10%	1,79 lx
30%	5,36 lx
50%	8,94 lx

Conditions:

Number of c-planes: 2

Lux at center: 17,9 lx

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



Total lumen output:

1550 lm

Peak candela output:

5101 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

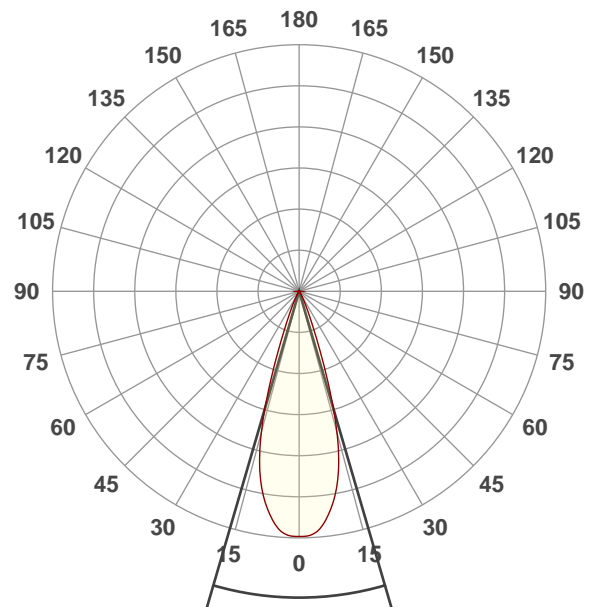
Green

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:01:32

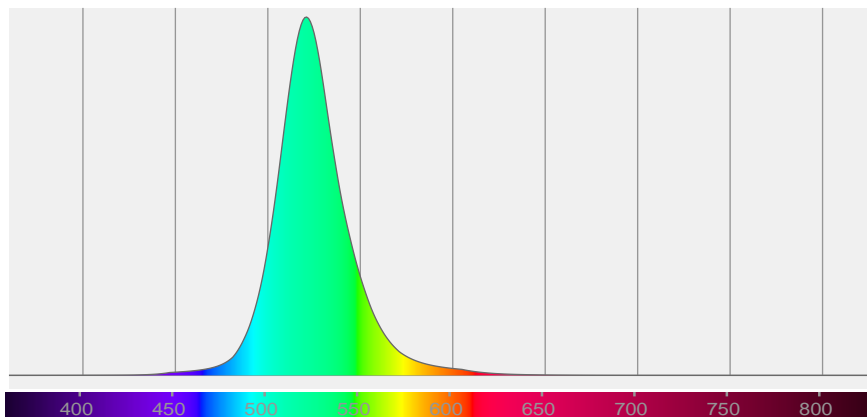


Beam angle 50%: 32,5°

Field angle 10%: 46,4°

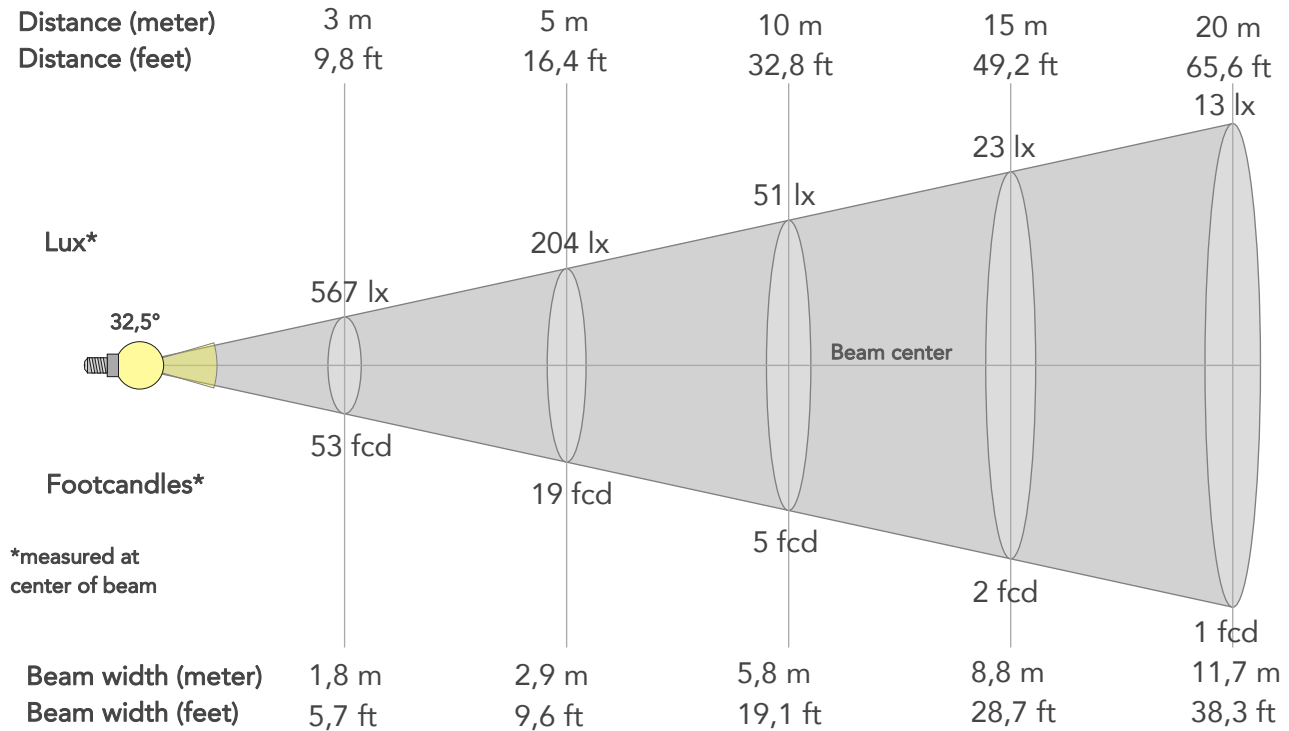
Cut off angle 2.5%: 58°

Spectra



BEAM DETAILS

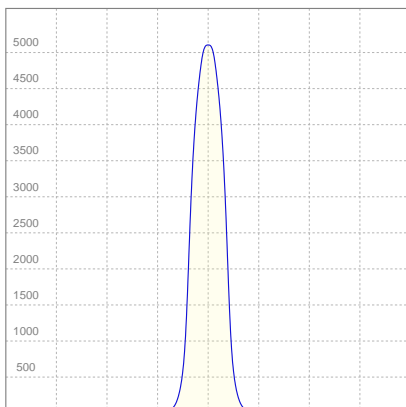
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,5°	46,4°	58°	94,5%	92,9%



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	5101lx	1275lx	567lx	319lx	204lx	91lx	51lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	474fcd	118fcd	53fcd	30fcd	19fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,3m	2,9m	4,4m	5,8m	8,8m	11,7m	14,6m	17,5m	23,3m	29,2m
Beam wid.	1,9ft	3,9ft	5,7ft	7,6ft	9,6ft	14,4ft	19,1ft	28,7ft	38,3ft	47,9ft	57,4ft	76,6ft	95,7ft

LINEAR DISTRIBUTION DIAGRAM

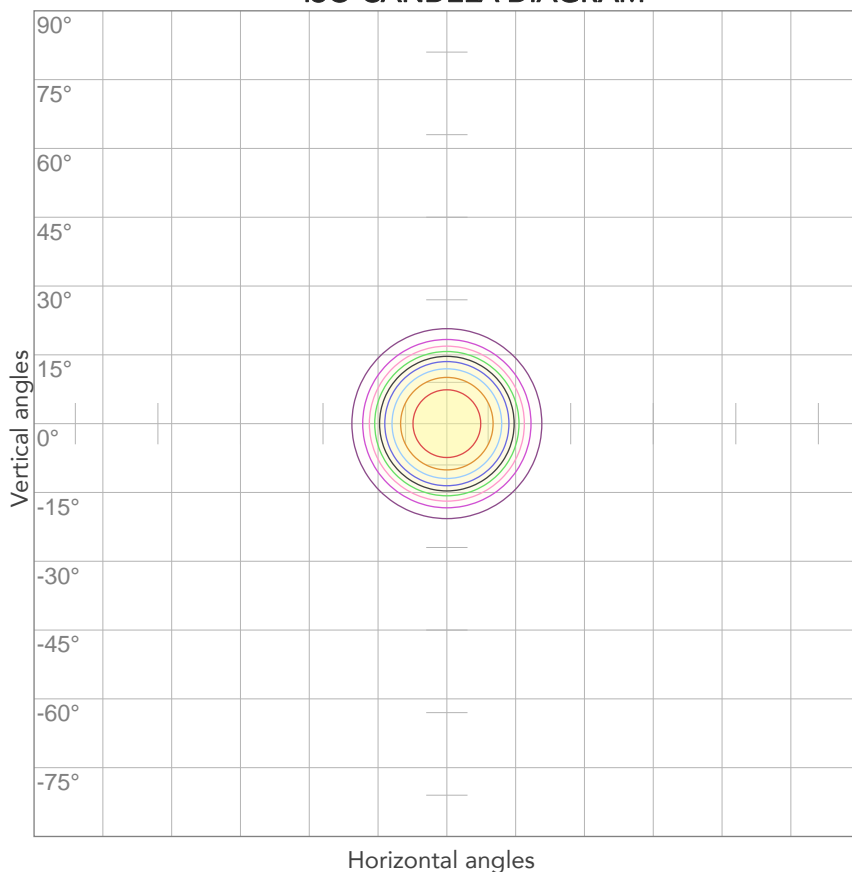


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,327A	52,3W	30lm/W

Power FC
0,72

ISO CANDELA DIAGRAM



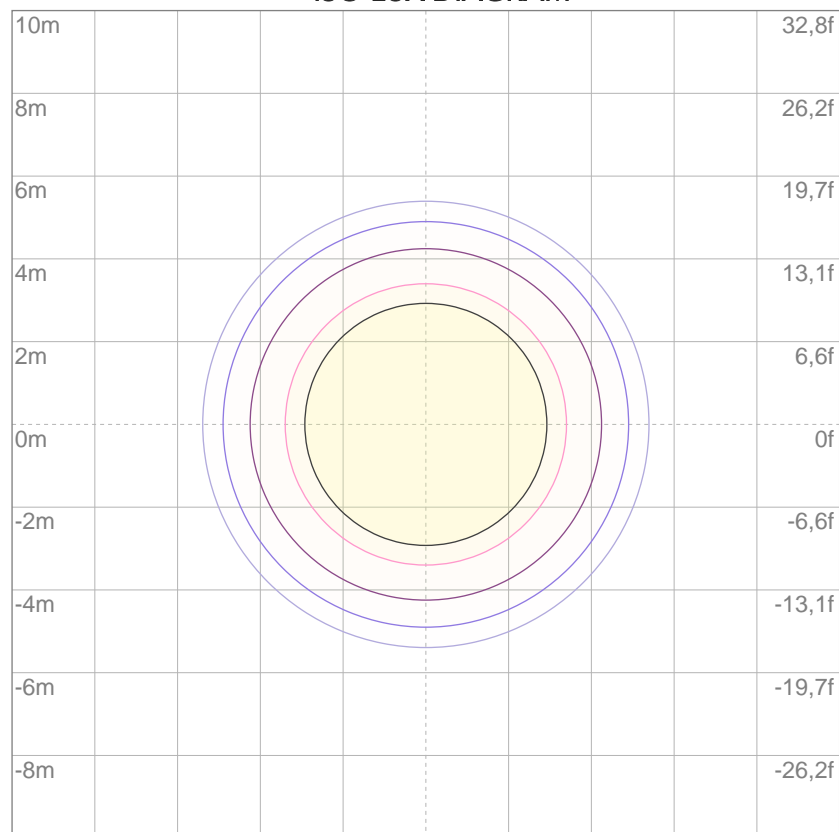
10%	510 cd
20%	1020 cd
30%	1530 cd
40%	2040 cd
50%	2551 cd
60%	3061 cd
70%	3571 cd
80%	4081 cd

Conditions:

Number of c-planes: 2

Candela at center: 5101 cd

ISO LUX DIAGRAM



3%	1,53 lx
5%	2,55 lx
10%	5,10 lx
30%	15,3 lx
50%	25,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 51,0 lx

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



Total lumen output:

1135 lm

Peak candela output:

10508 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

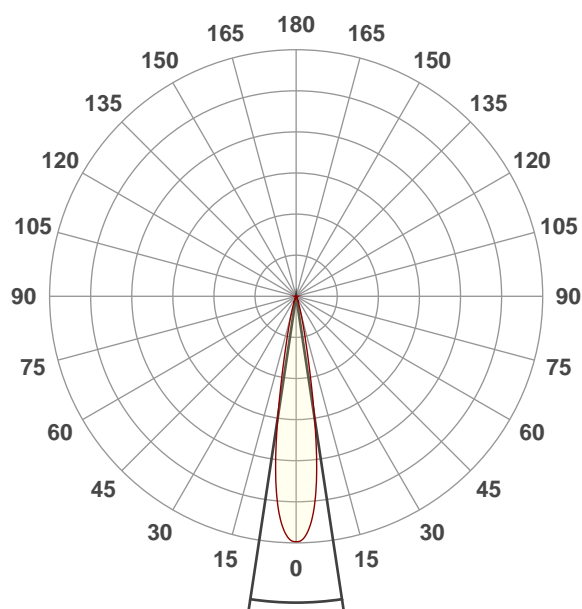
Green

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:52:48

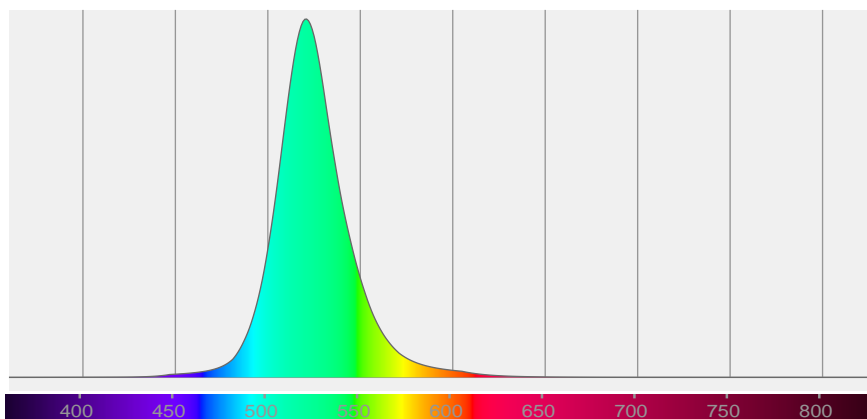


Beam angle 50%: 17,2°

Field angle 10%: 28,9°

Cut off angle 2.5%: 39,5°

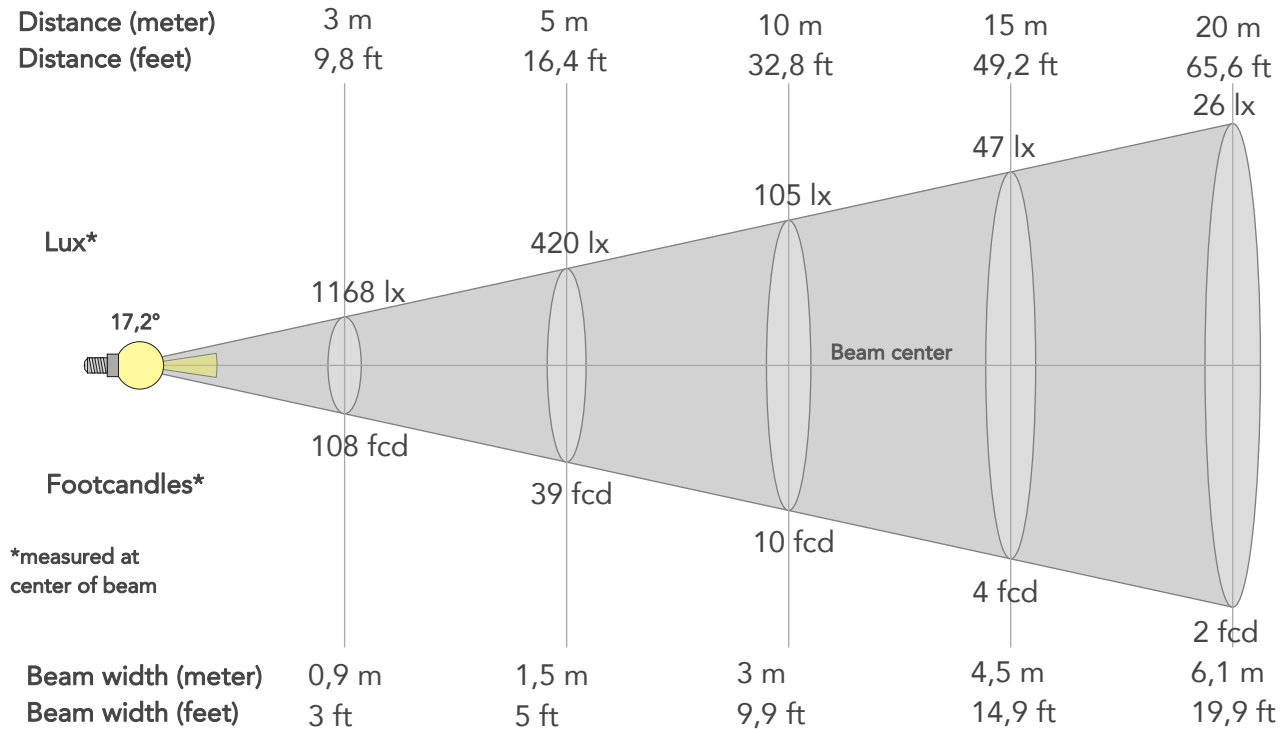
Spectra



BEAM DETAILS



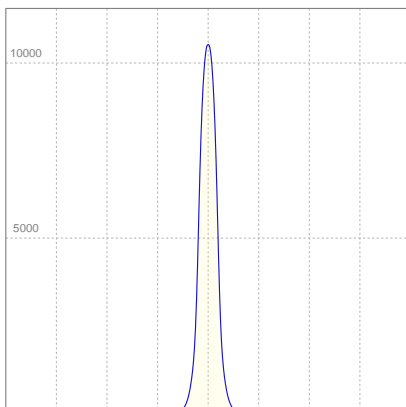
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,2°	28,9°	39,5°	94,1%	92,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	10508lx	2627lx	1168lx	657lx	420lx	187lx	105lx	47lx	26lx	17lx	12lx	7lx	4lx
Footcand.	976fcd	244fcd	108fcd	61fcd	39fcd	17fcd	10fcd	4fcd	2fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3m	4,5m	6,1m	7,6m	9,1m	12,1m	15,1m
Beam wid.	1ft	2ft	3ft	4ft	5ft	7,4ft	9,9ft	14,9ft	19,9ft	24,8ft	29,8ft	39,7ft	49,6ft

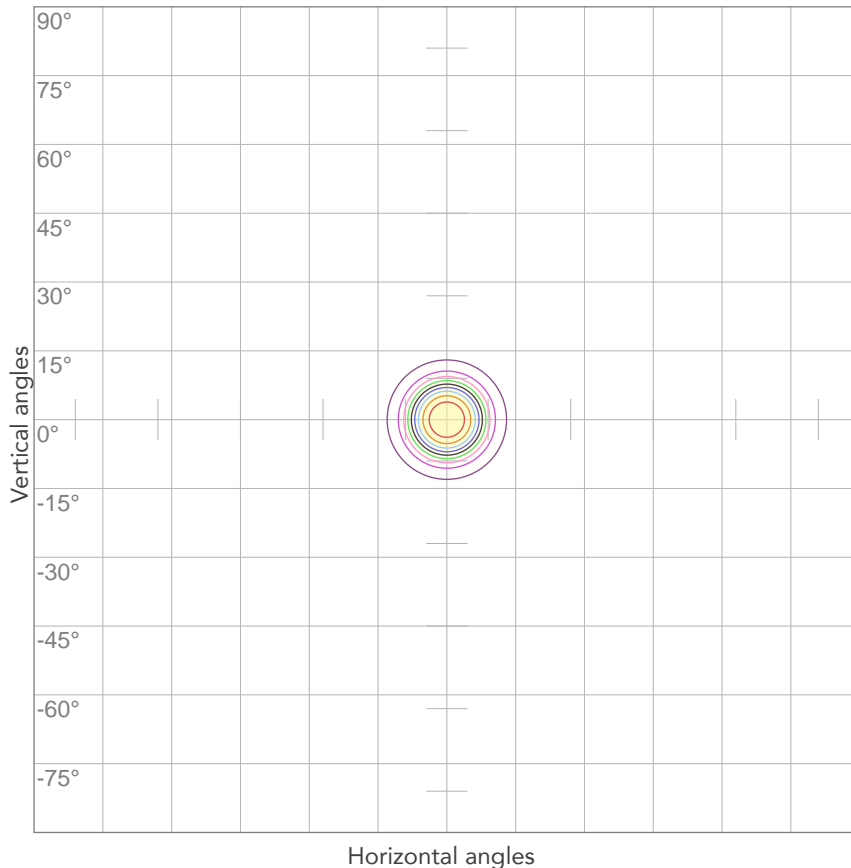
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,326A	51,5W	22lm/W
Power FC			
0,71			

ISO CANDELA DIAGRAM



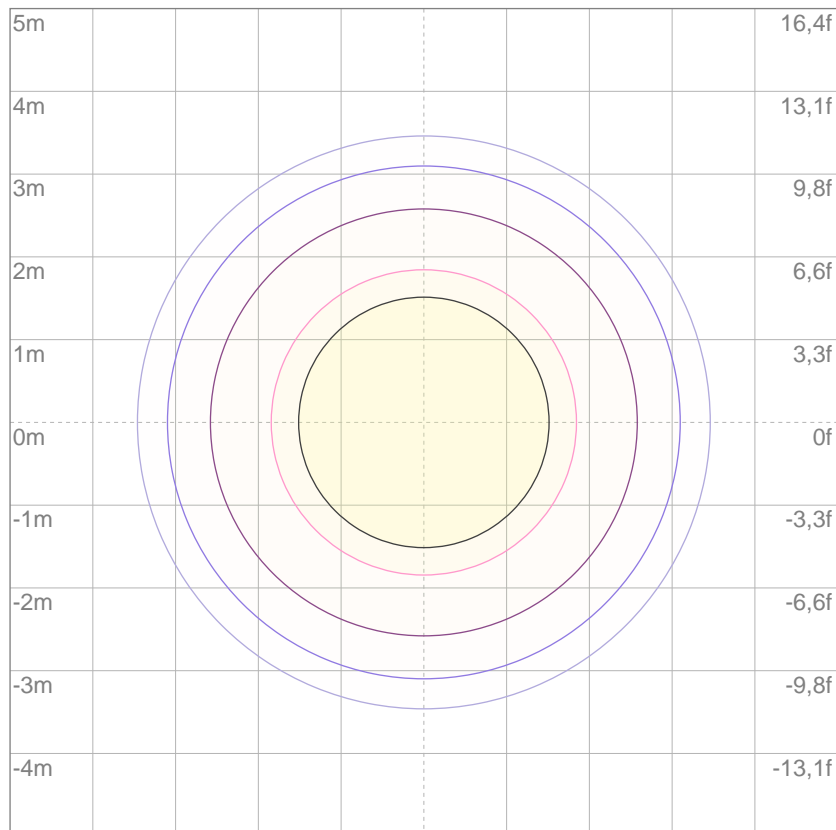
10%	1051 cd
20%	2102 cd
30%	3152 cd
40%	4203 cd
50%	5254 cd
60%	6305 cd
70%	7355 cd
80%	8406 cd

Conditions:

Number of c-planes: 2

Candela at center: 10508 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,15 lx
5%	5,25 lx
10%	10,5 lx
30%	31,5 lx
50%	52,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 105 lx

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



Total lumen output:

606 lm

Peak candela output:

734 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

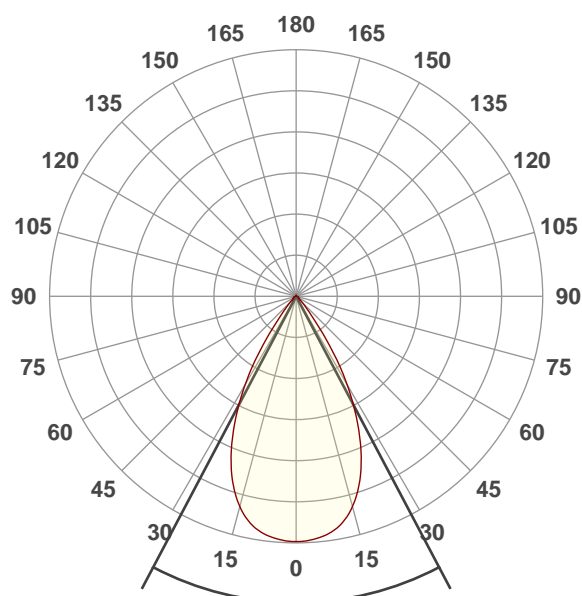
Royal blue

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:25:53

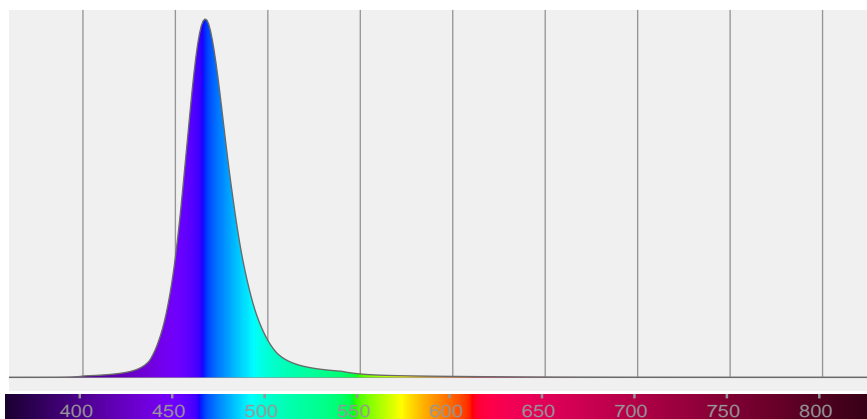


Beam angle 50%: 55,6°

Field angle 10%: 77,5°

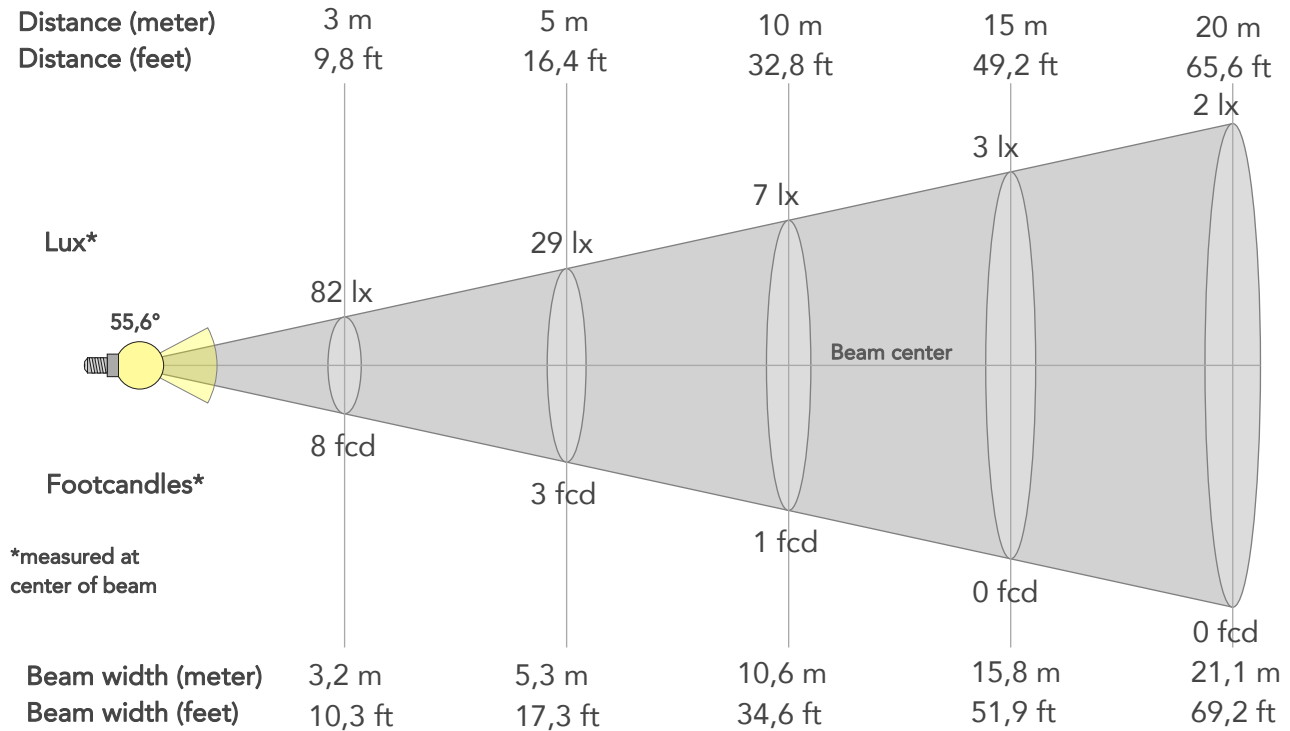
Cut off angle 2.5%: 94,6°

Spectra



BEAM DETAILS

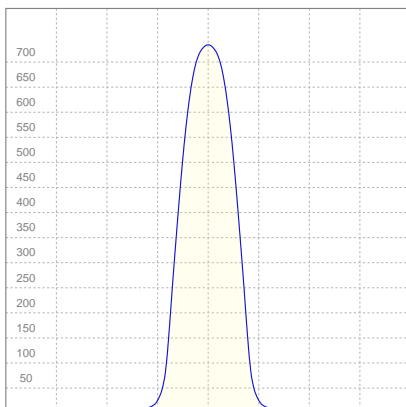
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55,6°	77,5°	94,6°	95,9%	93,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	734lx	183lx	82lx	46lx	29lx	13lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	68fcd	17fcd	8fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,1m	3,2m	4,2m	5,3m	7,9m	10,6m	15,8m	21,1m	26,4m	31,7m	42,2m	52,8m
Beam wid.	3,5ft	7ft	10,3ft	13,8ft	17,3ft	26ft	34,6ft	51,9ft	69,2ft	86,5ft	103,8ft	138,4ft	173ft

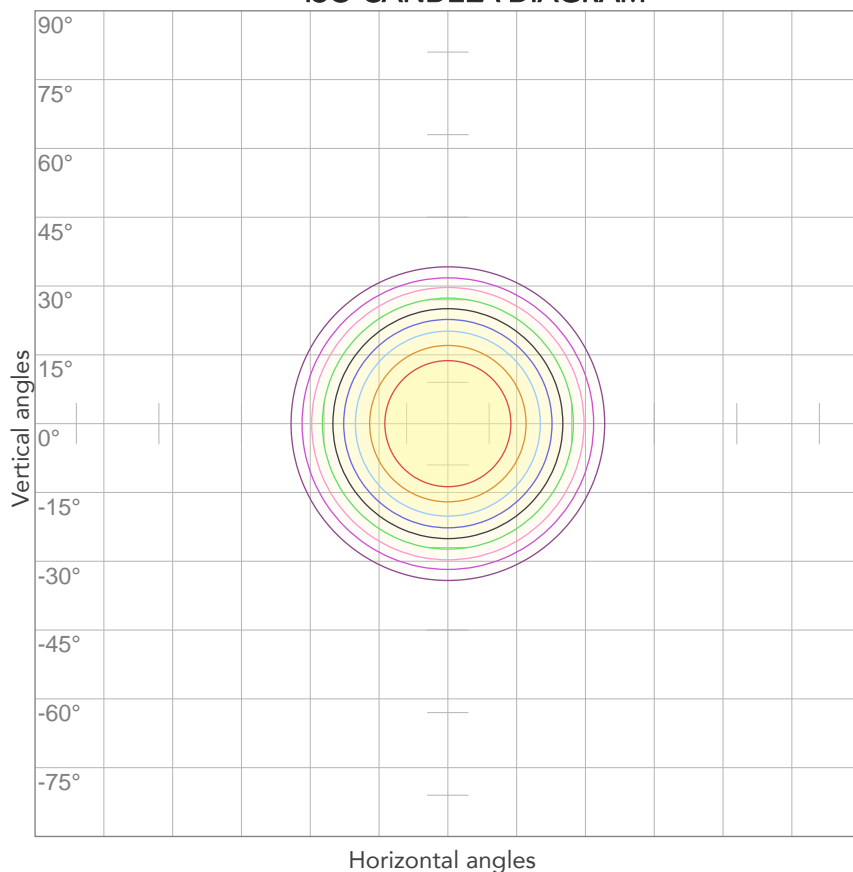
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,343A	55,9W	11lm/W
Power FC			
0,73			

ISO CANDELA DIAGRAM



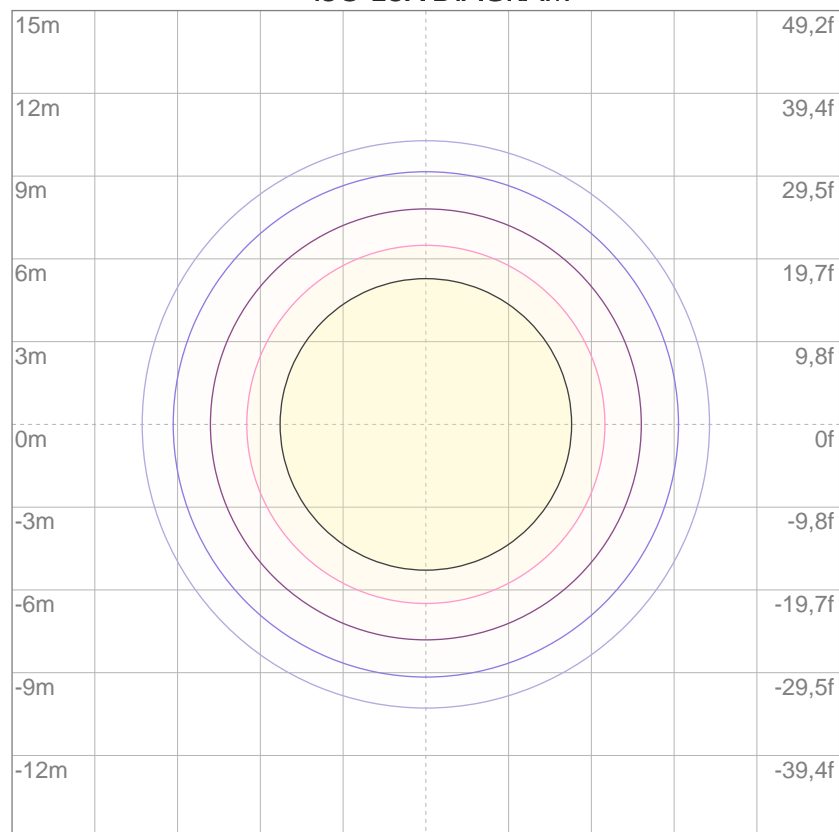
10%	73 cd
20%	147 cd
30%	220 cd
40%	293 cd
50%	367 cd
60%	440 cd
70%	514 cd
80%	587 cd

Conditions:

Number of c-planes: 2

Candela at center: 734 cd

ISO LUX DIAGRAM



3%	0,220 lx
5%	0,367 lx
10%	0,734 lx
30%	2,20 lx
50%	3,67 lx

Conditions:

Number of c-planes: 2

Lux at center: 7,34 lx

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



Total lumen output:

685 lm

Peak candela output:

2300 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

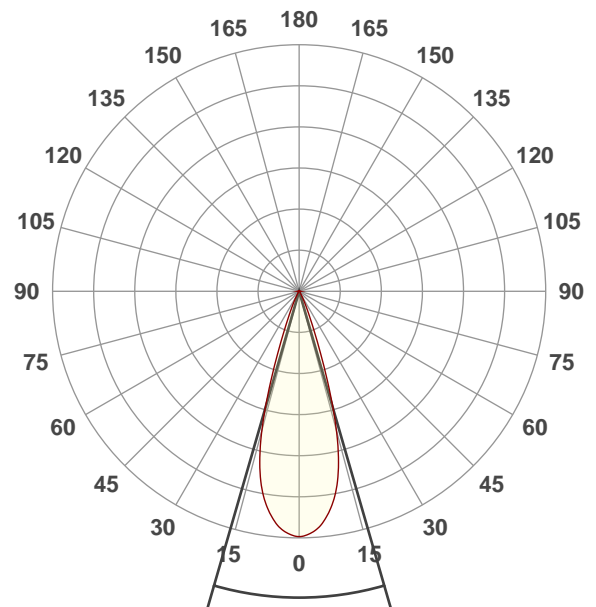
Royal Blue

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:05:23

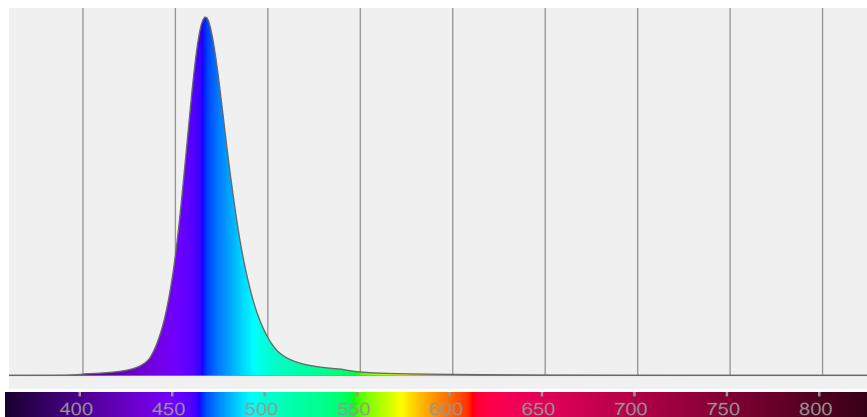


Beam angle 50%: 32,3°

Field angle 10%: 46,1°

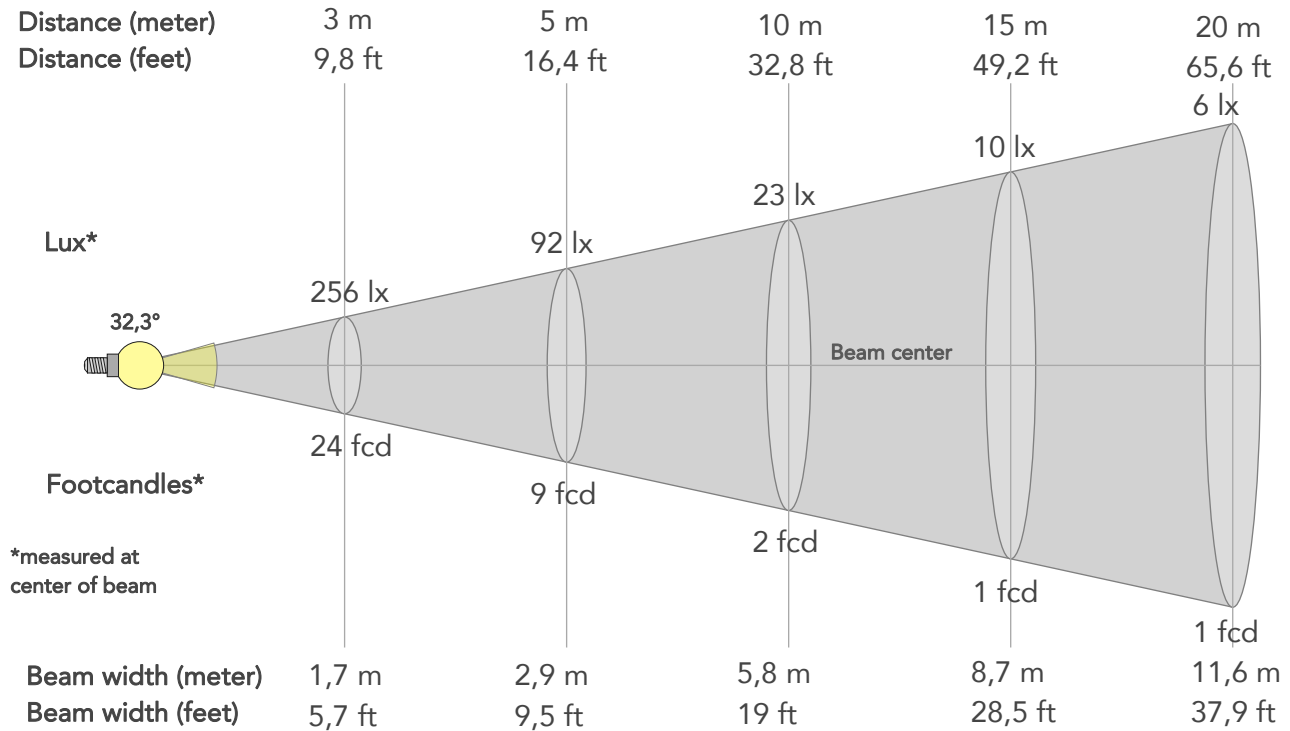
Cut off angle 2.5%: 57,9°

Spectra



BEAM DETAILS

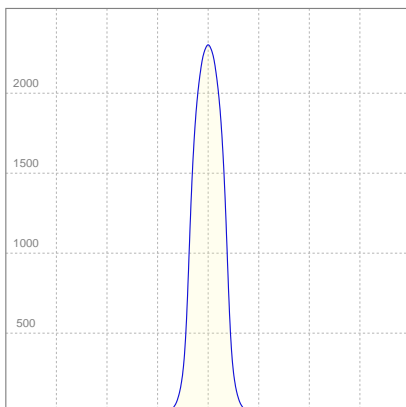
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,3°	46,1°	57,9°	95,2%	93,5%



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	2300lx	575lx	256lx	144lx	92lx	41lx	23lx	10lx	6lx	4lx	3lx	1lx	1lx
Footcand.	214fcd	53fcd	24fcd	13fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,7m	2,3m	2,9m	4,3m	5,8m	8,7m	11,6m	14,5m	17,4m	23,1m	28,9m
Beam wid.	1,9ft	3,8ft	5,7ft	7,6ft	9,5ft	14,2ft	19ft	28,5ft	37,9ft	47,4ft	56,9ft	75,9ft	94,9ft

LINEAR DISTRIBUTION DIAGRAM

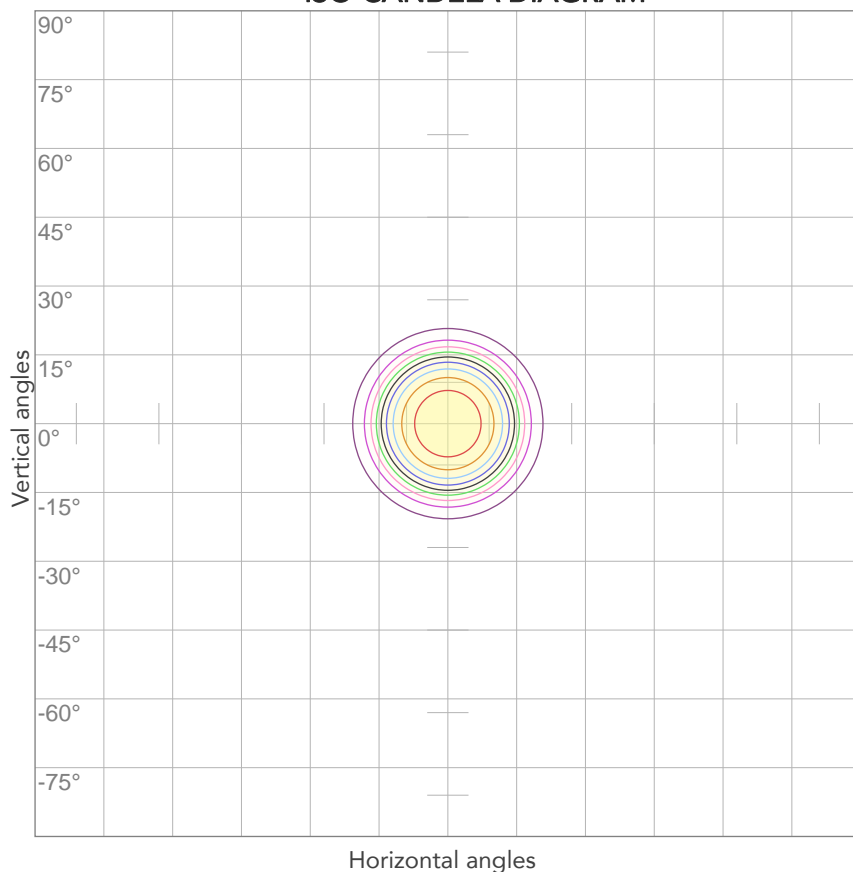


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,371A	61,3W	11lm/W

Power FC
0,74

ISO CANDELA DIAGRAM



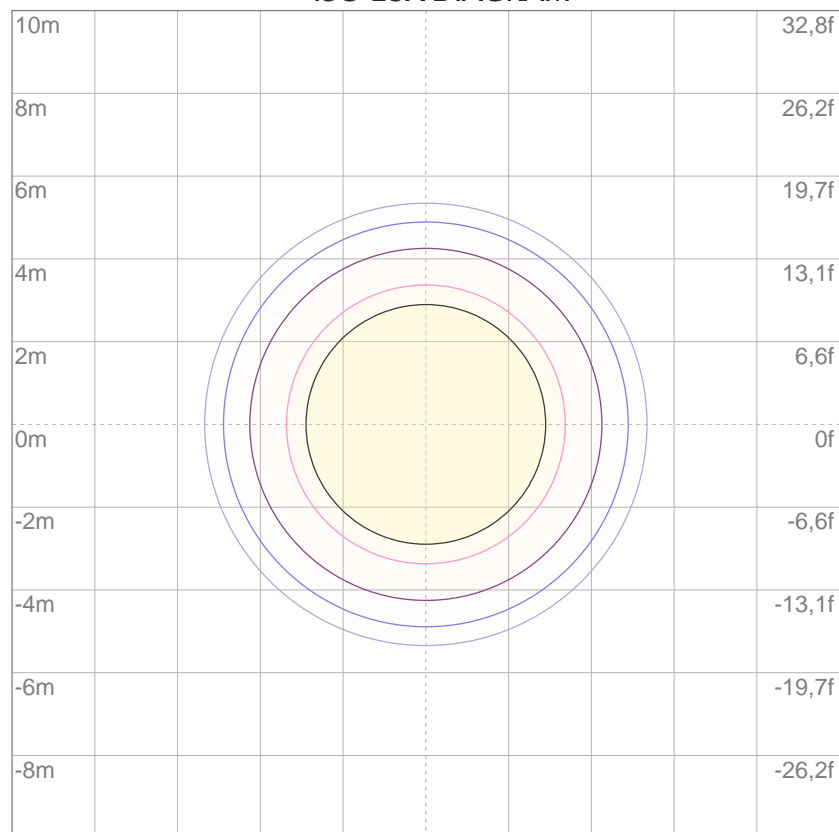
10%	230 cd
20%	460 cd
30%	690 cd
40%	920 cd
50%	1150 cd
60%	1380 cd
70%	1610 cd
80%	1840 cd

Conditions:

Number of c-planes: 2

Candela at center: 2300 cd

ISO LUX DIAGRAM



3%	0,690 lx
5%	1,15 lx
10%	2,30 lx
30%	6,90 lx
50%	11,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 23,0 lx

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



Total lumen output:

491 lm

Peak candela output:

4550 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

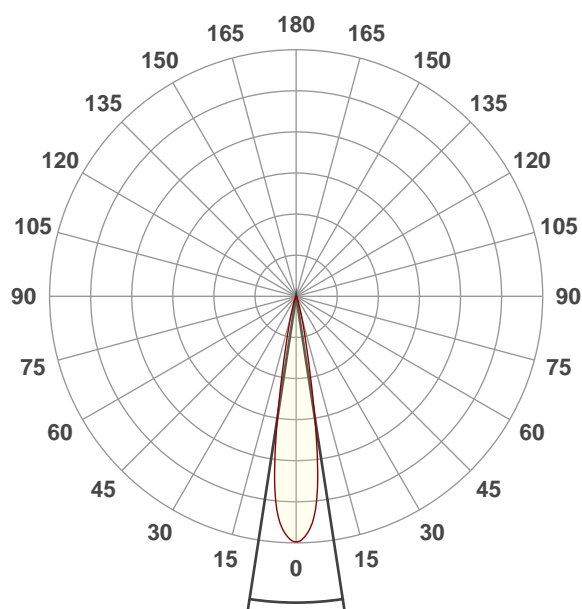
Royal Blue

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:57:04

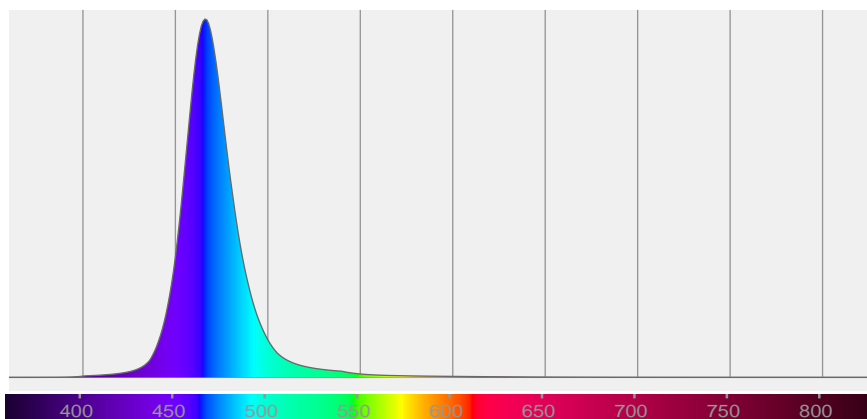


Beam angle 50%: 17,5°

Field angle 10%: 29,1°

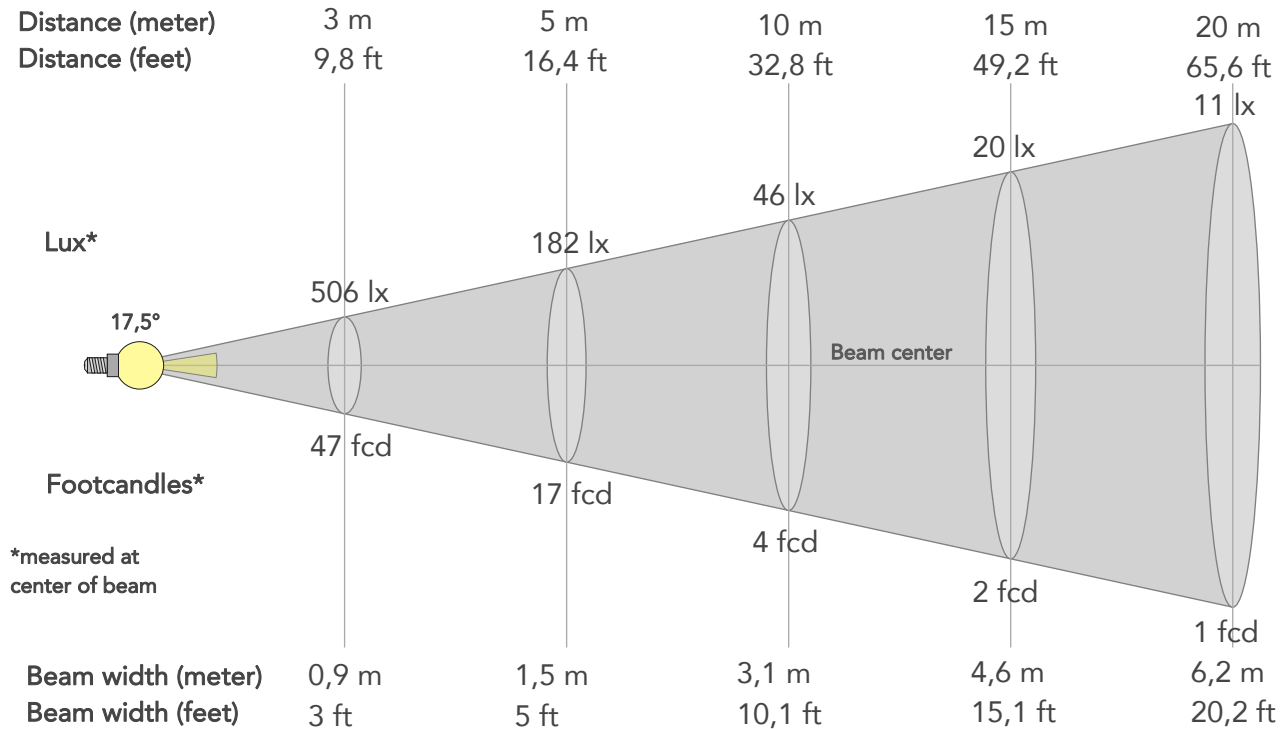
Cut off angle 2.5%: 39,5°

Spectra



BEAM DETAILS

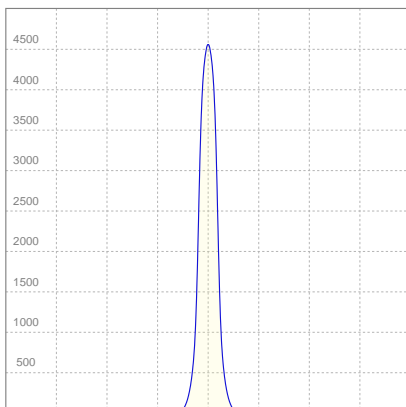
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,5°	29,1°	39,5°	96,0%	94,2%



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	4550lx	1138lx	506lx	284lx	182lx	81lx	46lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	423fcd	106fcd	47fcd	26fcd	17fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3,1m	4,6m	6,2m	7,7m	9,2m	12,3m	15,4m
Beam wid.	1ft	2ft	3ft	4ft	5ft	7,6ft	10,1ft	15,1ft	20,2ft	25,2ft	30,3ft	40,4ft	50,5ft

LINEAR DISTRIBUTION DIAGRAM

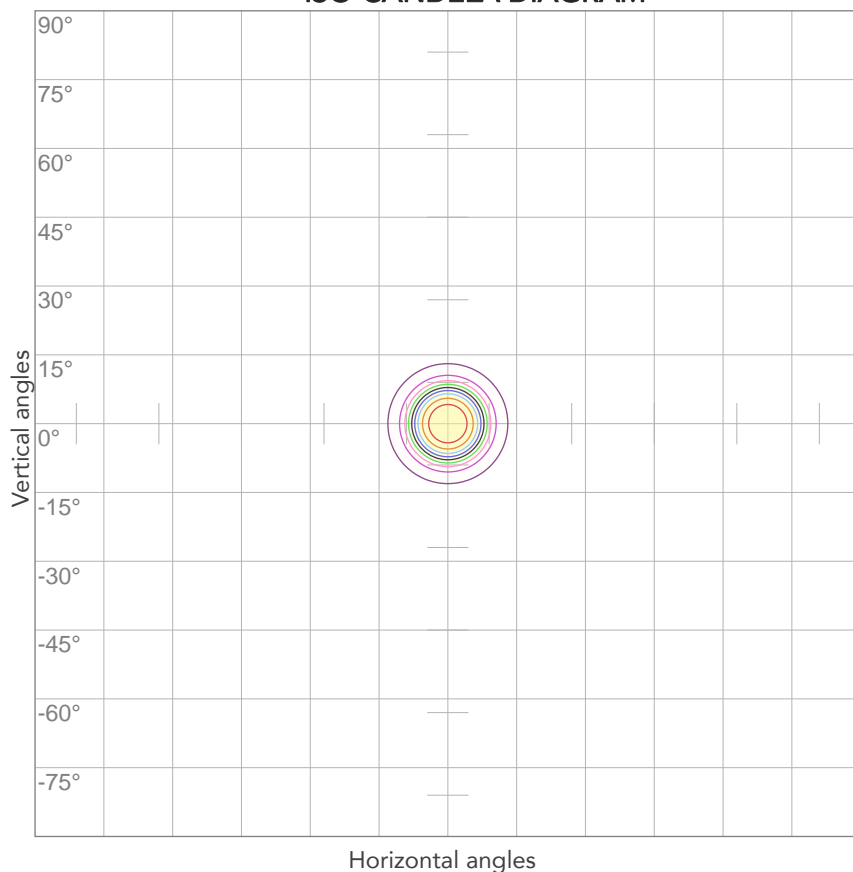


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,367A	60,5W	8lm/W

Power FC
0,74

ISO CANDELA DIAGRAM



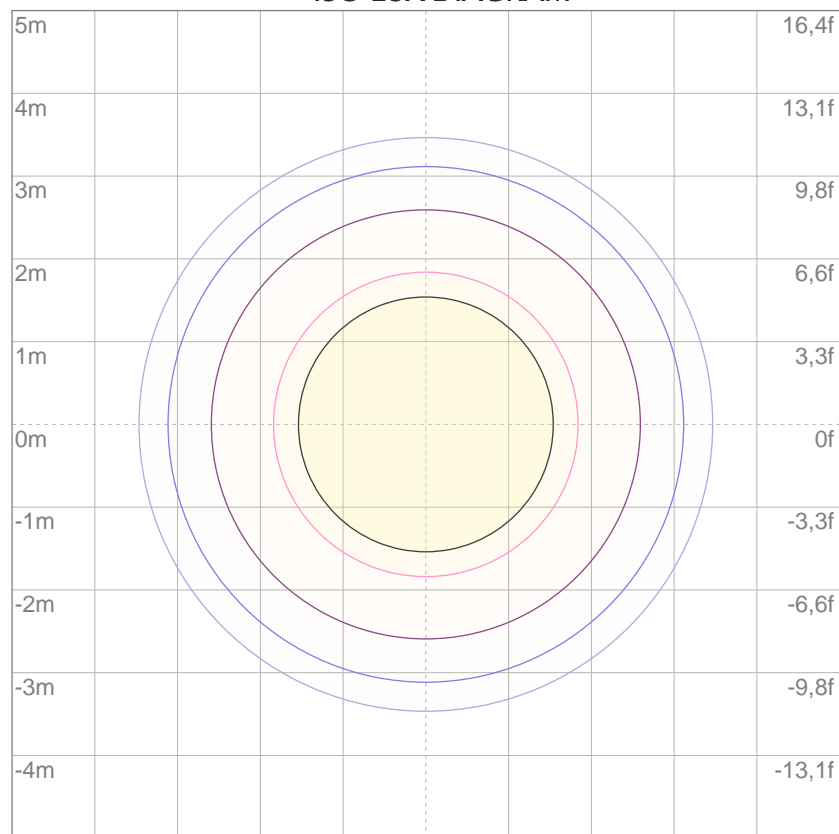
10%	455 cd
20%	910 cd
30%	1365 cd
40%	1820 cd
50%	2275 cd
60%	2730 cd
70%	3185 cd
80%	3640 cd

Conditions:

Number of c-planes: 2

Candela at center: 4550 cd

ISO LUX DIAGRAM



3%	1,37 lx
5%	2,28 lx
10%	4,55 lx
30%	13,7 lx
50%	22,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 45,5 lx

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



Total lumen output:

523 lm

Peak candela output:

674 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

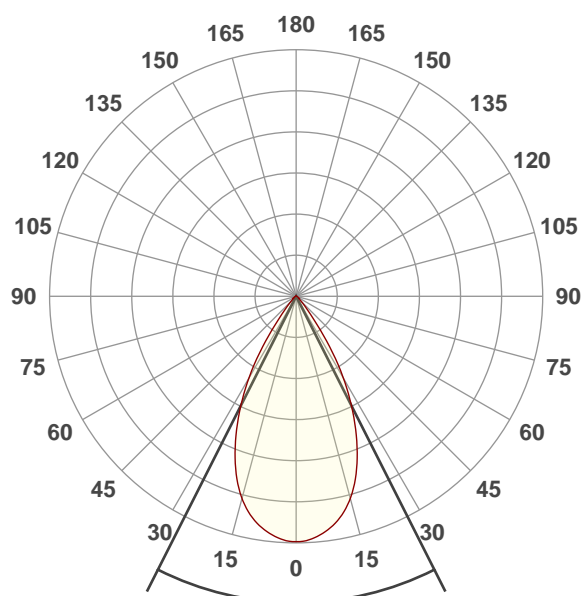
Blue

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:23:09

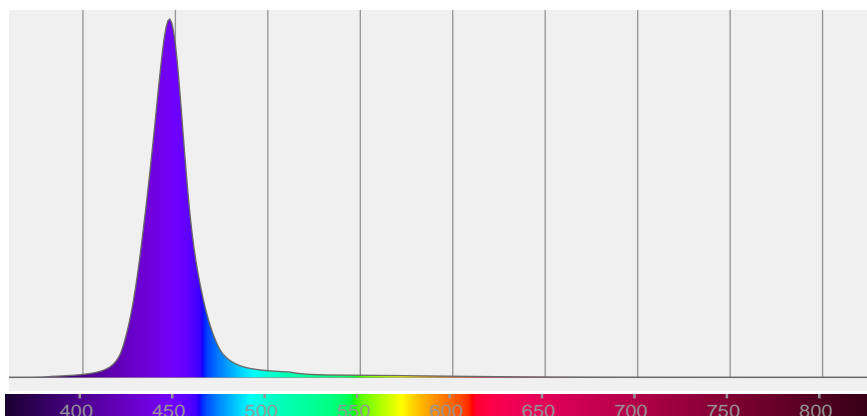


Beam angle 50%: 53,6°

Field angle 10%: 76,7°

Cut off angle 2.5%: 92,9°

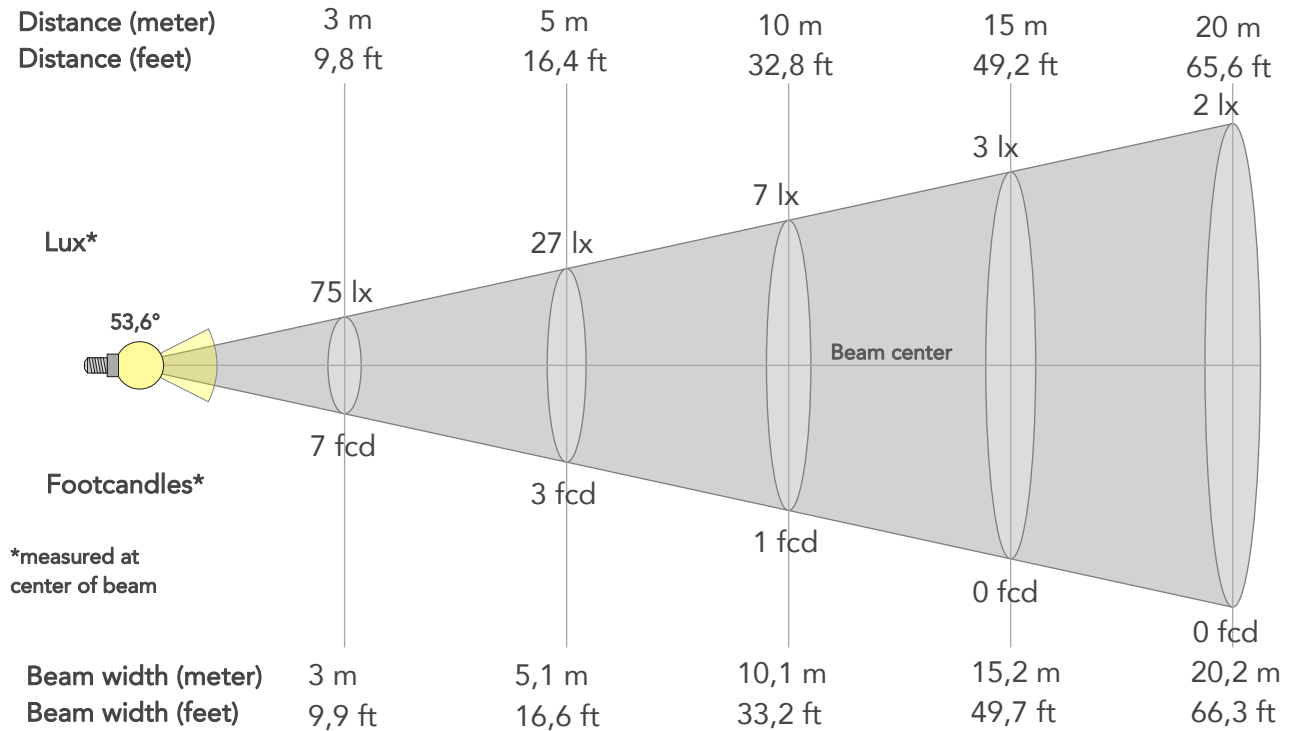
Spectra



BEAM DETAILS



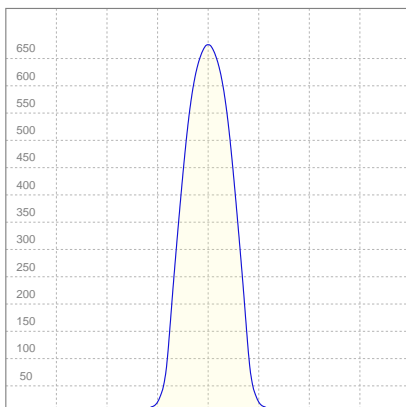
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,6°	76,7°	92,9°	96,3%	93,6%



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	674lx	169lx	75lx	42lx	27lx	12lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	63fcd	16fcd	7fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5,1m	7,6m	10,1m	15,2m	20,2m	25,3m	30,3m	40,4m	50,6m
Beam wid.	3,3ft	6,7ft	9,9ft	13,2ft	16,6ft	24,9ft	33,2ft	49,7ft	66,3ft	82,9ft	99,5ft	132,7ft	165,8ft

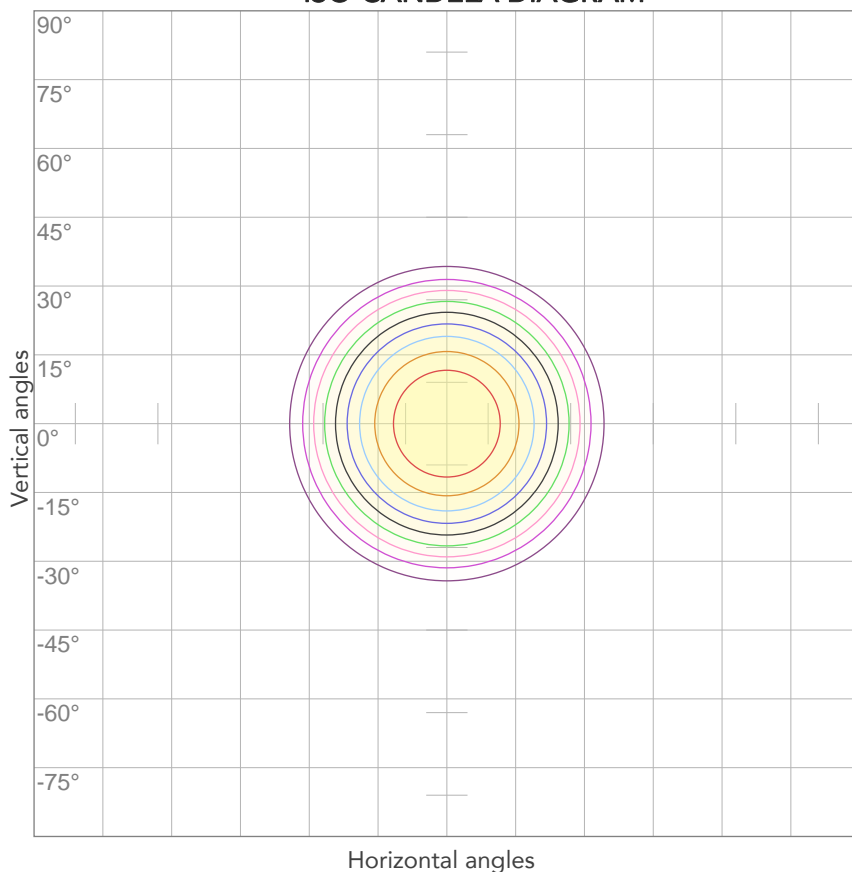
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,377A	63,0W	8lm/W
Power FC			
0,75			

ISO CANDELA DIAGRAM



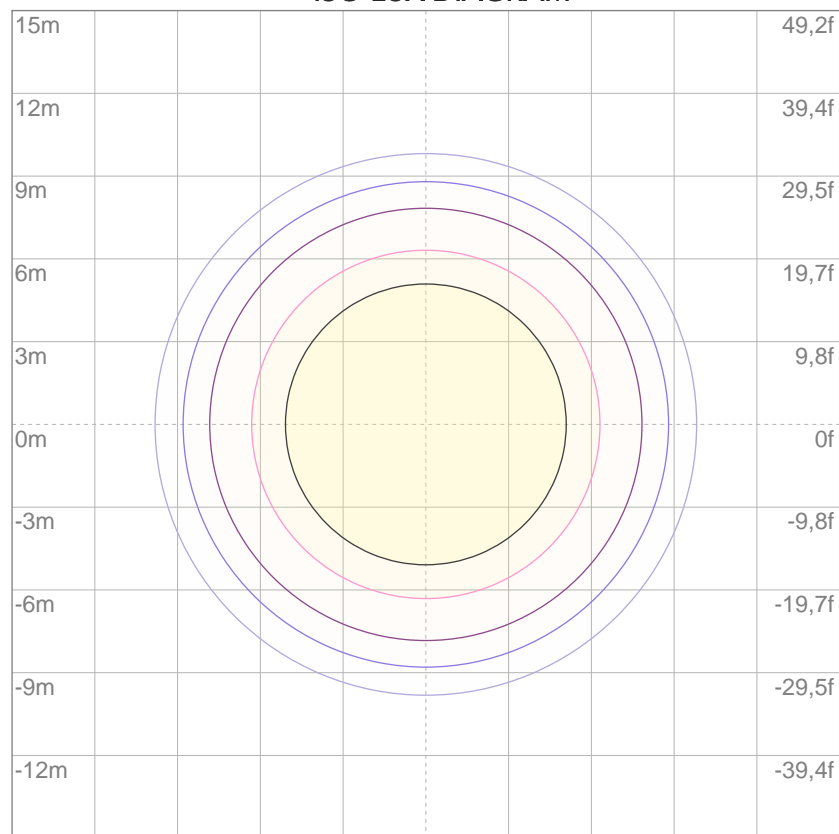
10%	67 cd
20%	135 cd
30%	202 cd
40%	270 cd
50%	337 cd
60%	405 cd
70%	472 cd
80%	539 cd

Conditions:

Number of c-planes: 2

Candela at center: 674 cd

ISO LUX DIAGRAM



3%	0,202 lx
5%	0,337 lx
10%	0,674 lx
30%	2,02 lx
50%	3,37 lx

Conditions:

Number of c-planes: 2

Lux at center: 6,74 lx

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



Total lumen output:

588 lm

Peak candela output:

2055 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

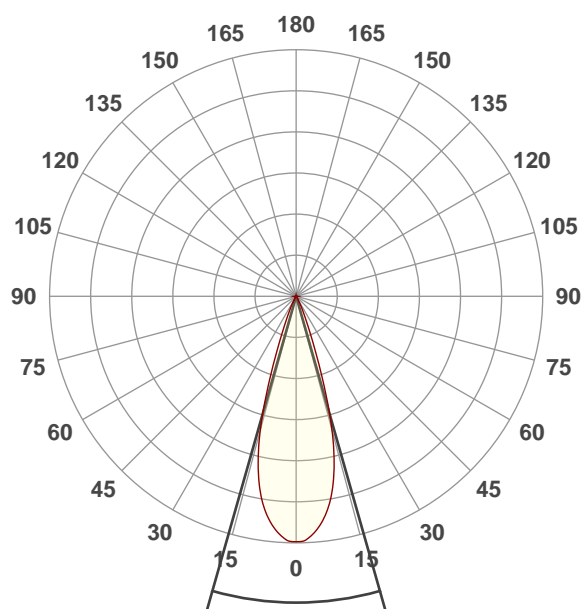
Blue

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:03:27

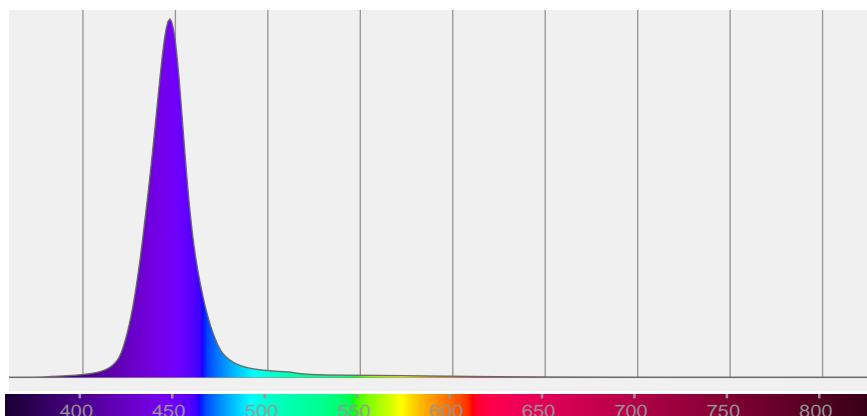


Beam angle 50%: 31,7°

Field angle 10%: 45,6°

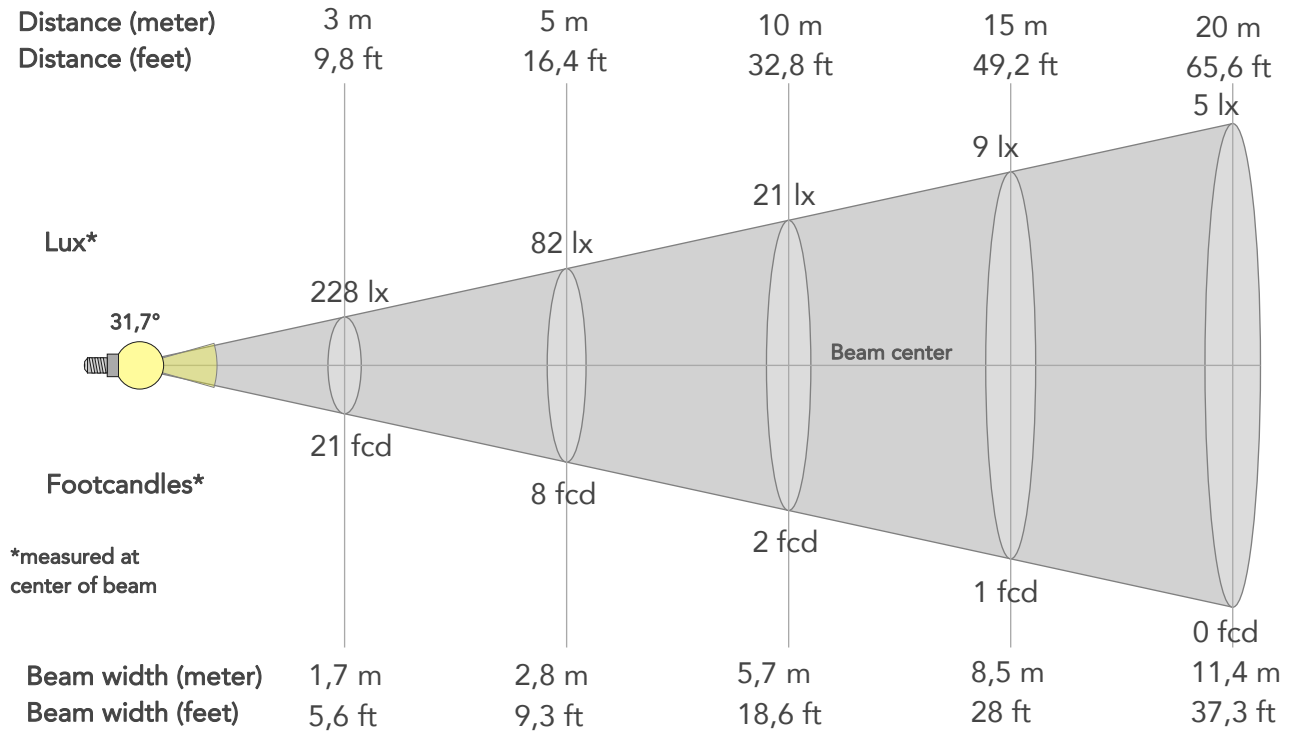
Cut off angle 2.5%: 57,3°

Spectra



BEAM DETAILS

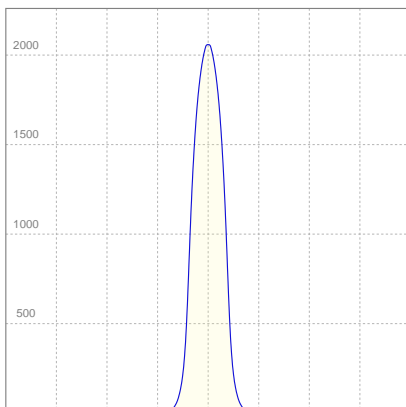
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,7°	45,6°	57,3°	95,8%	94,3%



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	2055lx	514lx	228lx	128lx	82lx	37lx	21lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	191fcd	48fcd	21fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,3m	5,7m	8,5m	11,4m	14,2m	17,1m	22,7m	28,4m
Beam wid.	1,9ft	3,8ft	5,6ft	7,4ft	9,3ft	14ft	18,6ft	28ft	37,3ft	46,6ft	55,9ft	74,6ft	93,2ft

LINEAR DISTRIBUTION DIAGRAM

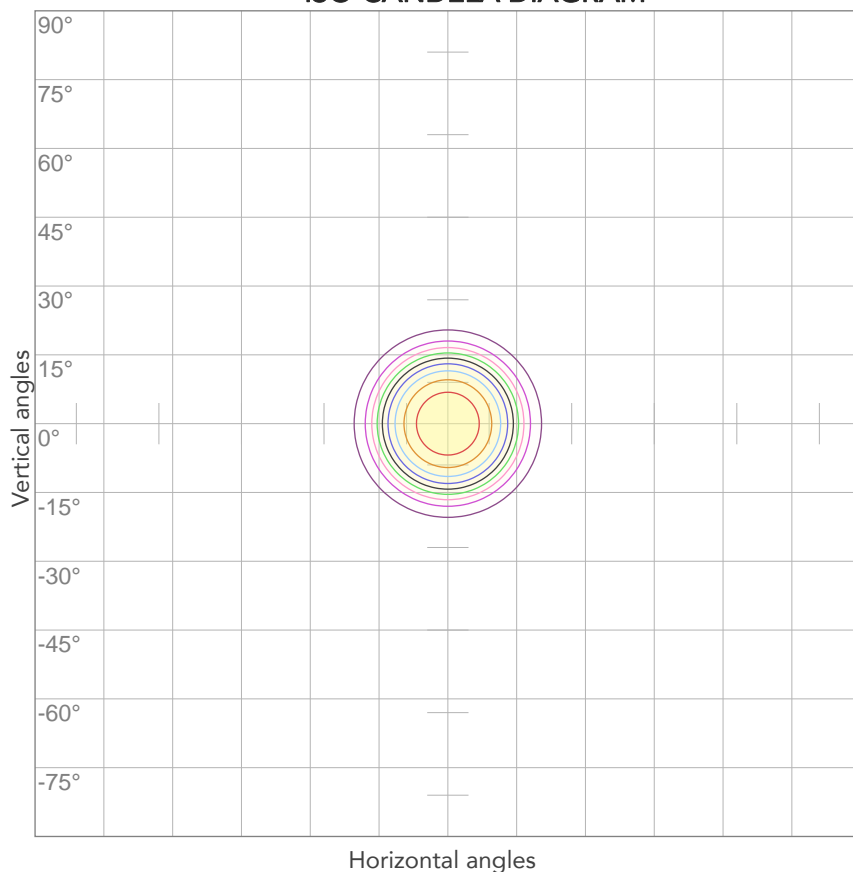


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,406A	68,7W	9lm/W

Power FC
0,76

ISO CANDELA DIAGRAM



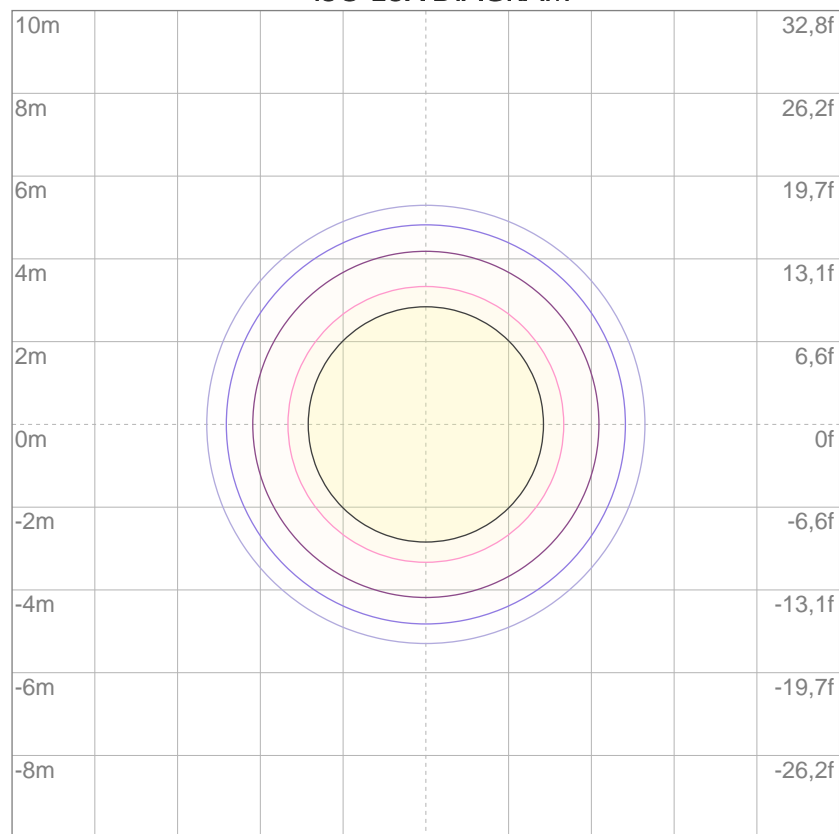
10%	205 cd
20%	411 cd
30%	616 cd
40%	822 cd
50%	1027 cd
60%	1233 cd
70%	1438 cd
80%	1644 cd

Conditions:

Number of c-planes: 2

Candela at center: 2055 cd

ISO LUX DIAGRAM



3%	0,616 lx
5%	1,03 lx
10%	2,05 lx
30%	6,16 lx
50%	10,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 20,5 lx

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



Total lumen output:

428 lm

Peak candela output:

4099 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

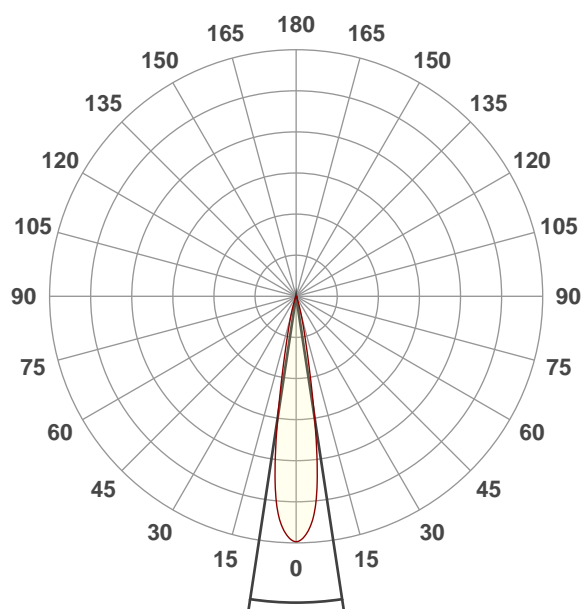
Blue

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:54:51

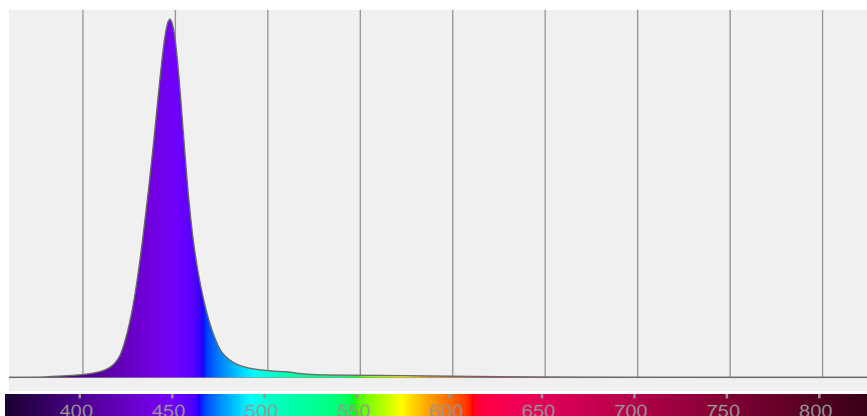


Beam angle 50%: 17,3°

Field angle 10%: 28,8°

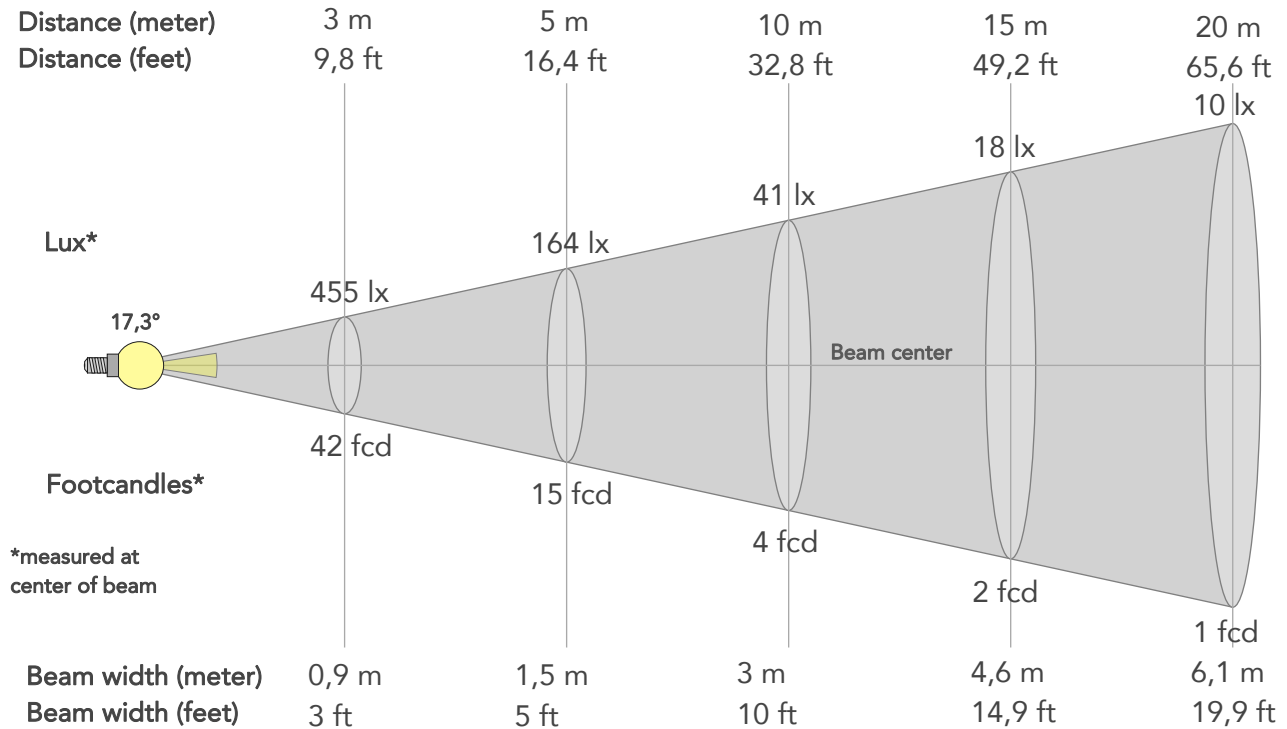
Cut off angle 2.5%: 39,1°

Spectra



BEAM DETAILS

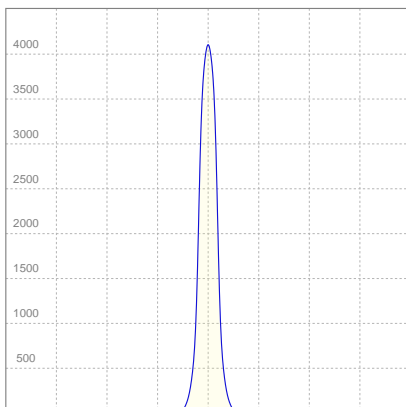
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,3°	28,8°	39,1°	96,0%	94,5%



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	4099lx	1025lx	455lx	256lx	164lx	73lx	41lx	18lx	10lx	7lx	5lx	3lx	2lx
Footcand.	381fcd	95fcd	42fcd	24fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3m	4,6m	6,1m	7,6m	9,1m	12,1m	15,2m
Beam wid.	1ft	2ft	3ft	4ft	5ft	7,5ft	10ft	14,9ft	19,9ft	24,9ft	29,9ft	39,8ft	49,8ft

LINEAR DISTRIBUTION DIAGRAM

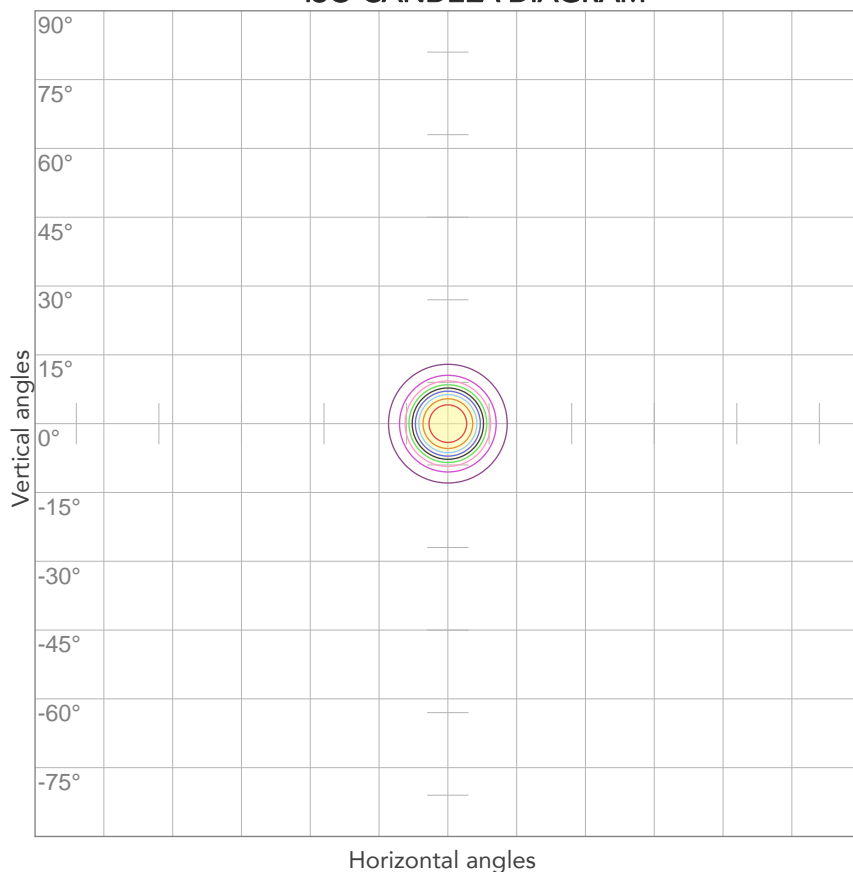


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,404A	68,7W	6lm/W

Power FC
0,76

ISO CANDELA DIAGRAM



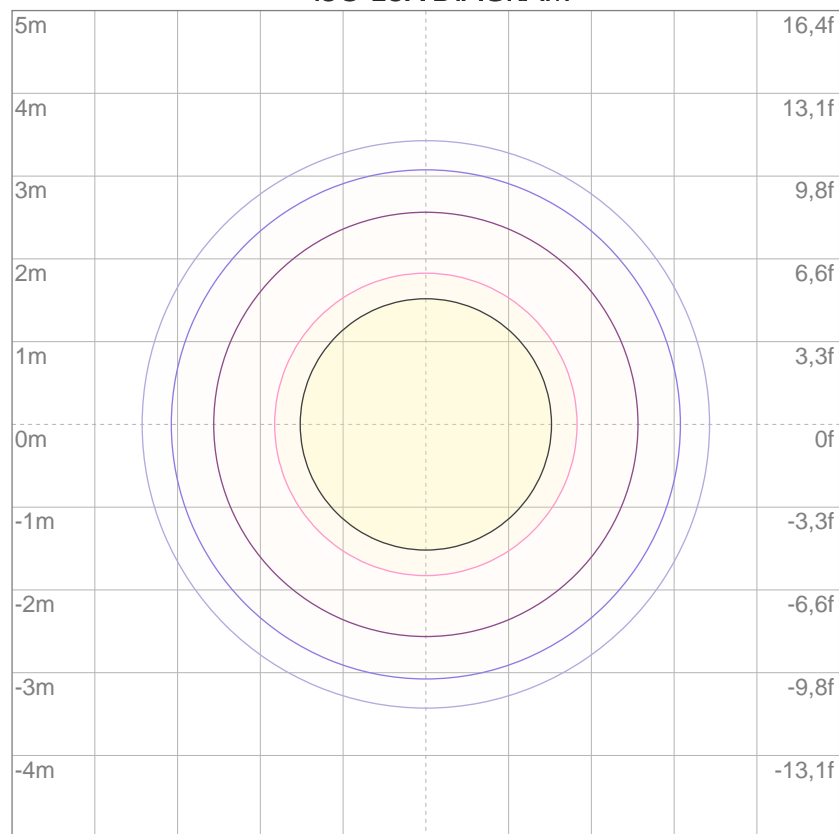
10%	410 cd
20%	820 cd
30%	1230 cd
40%	1640 cd
50%	2050 cd
60%	2460 cd
70%	2869 cd
80%	3279 cd

Conditions:

Number of c-planes: 2

Candela at center: 4099 cd

ISO LUX DIAGRAM



3%	1,23 lx
5%	2,05 lx
10%	4,10 lx
30%	12,3 lx
50%	20,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 41,0 lx

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



Total lumen output:

12239 lm

Peak candela output:

16609 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

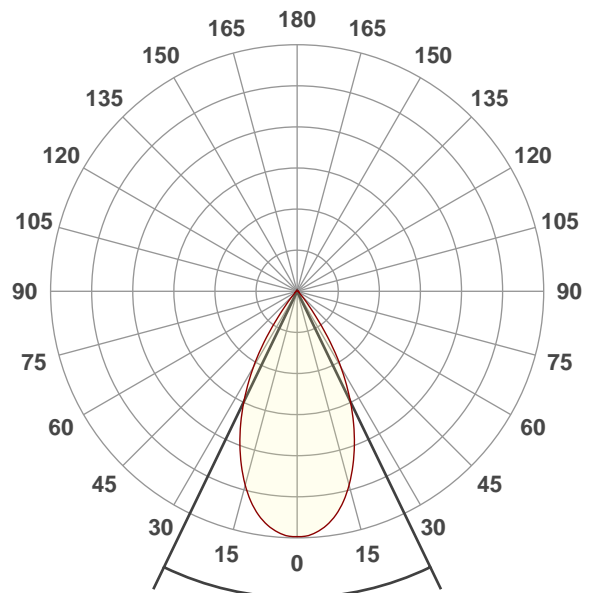
Lime

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:28:27

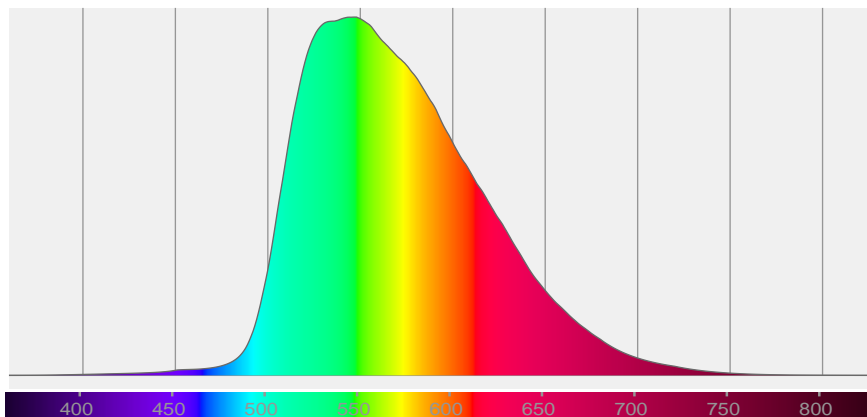


Beam angle 50%: 51,5°

Field angle 10%: 75,8°

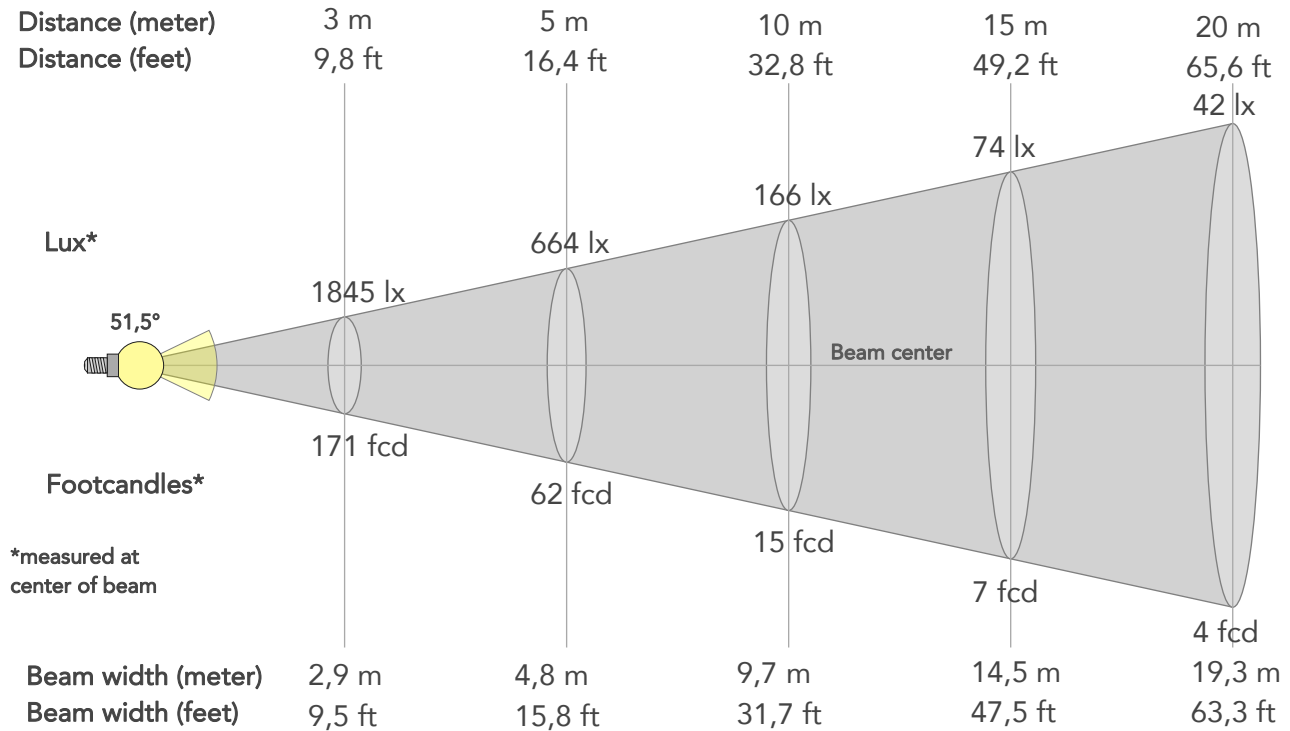
Cut off angle 2.5%: 91,8°

Spectra



BEAM DETAILS

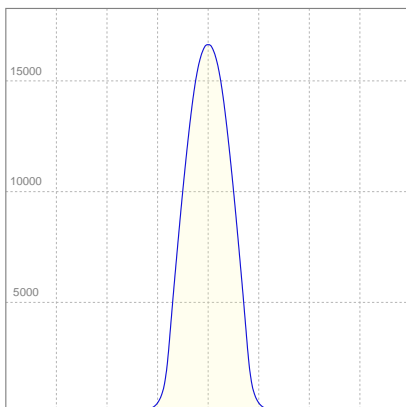
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,5°	75,8°	91,8°	95,7%	93,2%



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	16609lx	4152lx	1845lx	1038lx	664lx	295lx	166lx	74lx	42lx	27lx	18lx	10lx	7lx
Footcand.	1543fcd	386fcd	171fcd	96fcd	62fcd	27fcd	15fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	1m	1,9m	2,9m	3,9m	4,8m	7,2m	9,7m	14,5m	19,3m	24,1m	29m	38,6m	48,3m
Beam wid.	3,2ft	6,4ft	9,5ft	12,6ft	15,8ft	23,8ft	31,7ft	47,5ft	63,3ft	79,2ft	95ft	126,7ft	158,4ft

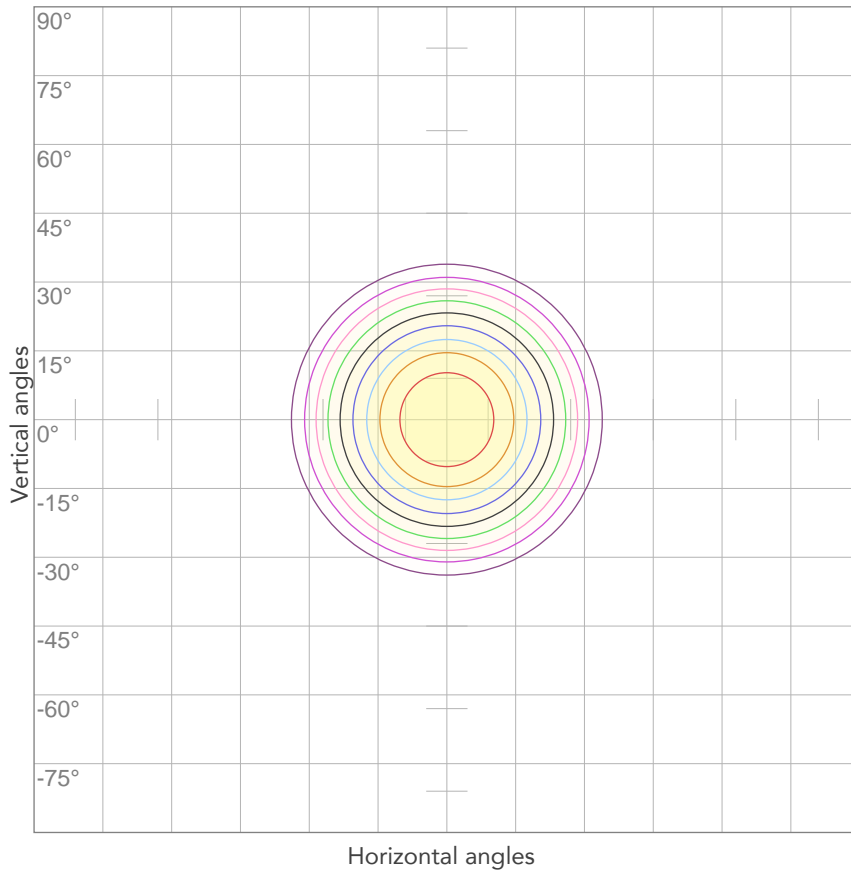
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	1,22A	248,6W	49lm/W
Power FC			
0,92			

ISO CANDELA DIAGRAM



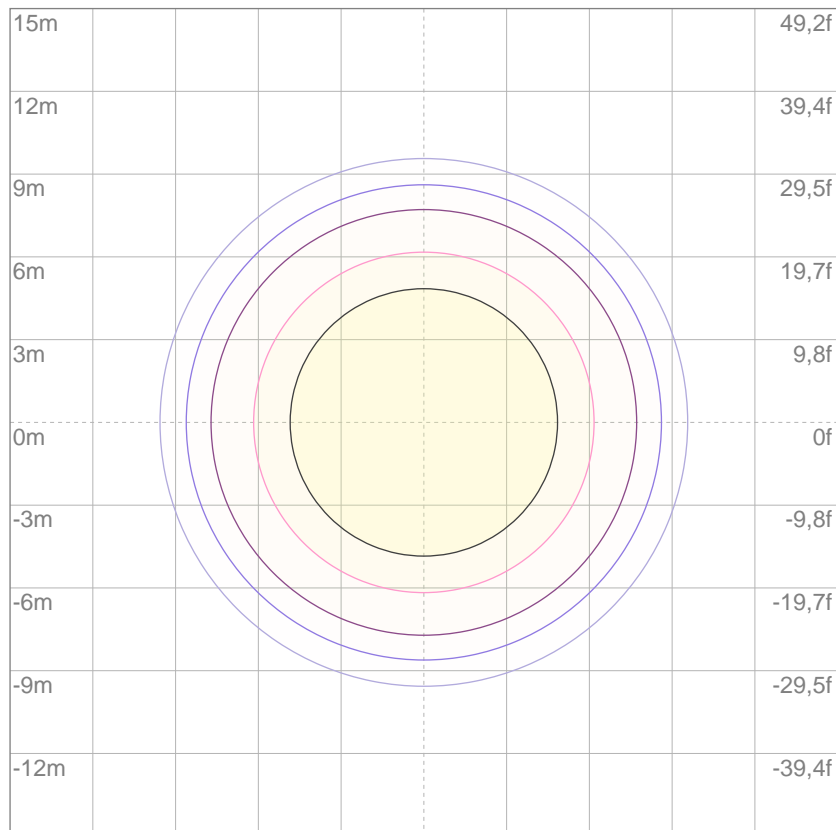
10%	1661 cd
20%	3322 cd
30%	4983 cd
40%	6644 cd
50%	8304 cd
60%	9965 cd
70%	11626 cd
80%	13287 cd

Conditions:

Number of c-planes: 2

Candela at center: 16609 cd

ISO LUX DIAGRAM



3%	4,98 lx
5%	8,30 lx
10%	16,6 lx
30%	49,8 lx
50%	83,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 166 lx

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



Total lumen output:

12686 lm

Peak candela output:

44459 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

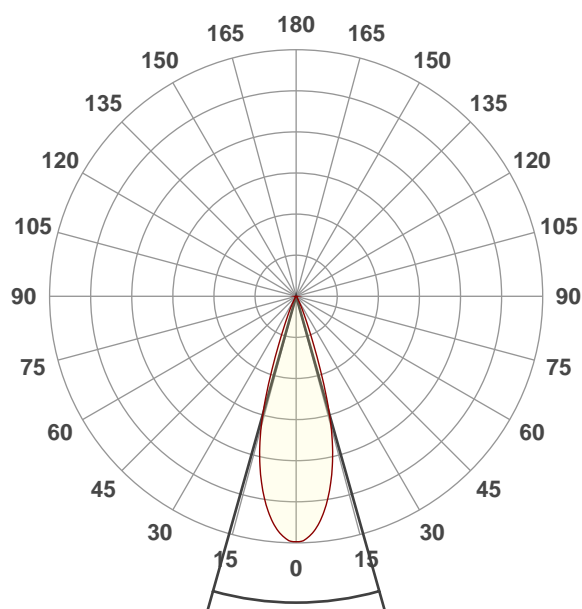
Lime

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:07:34

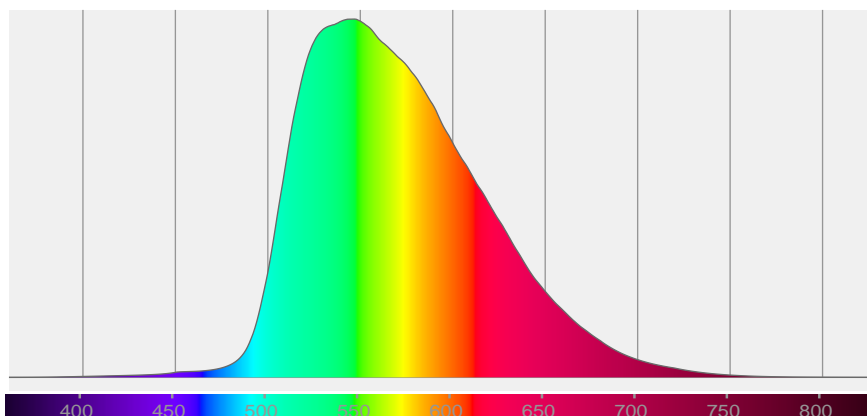


Beam angle 50%: 31,5°

Field angle 10%: 45,5°

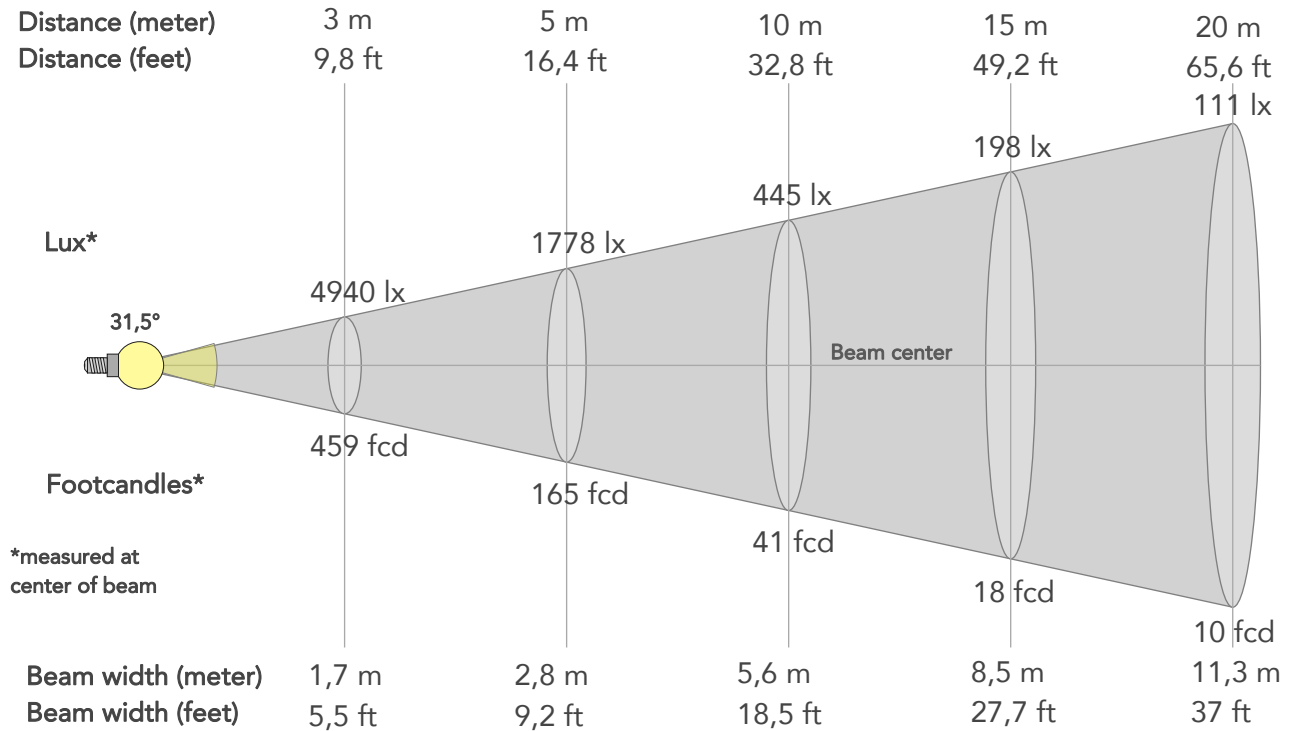
Cut off angle 2.5%: 57,4°

Spectra



BEAM DETAILS

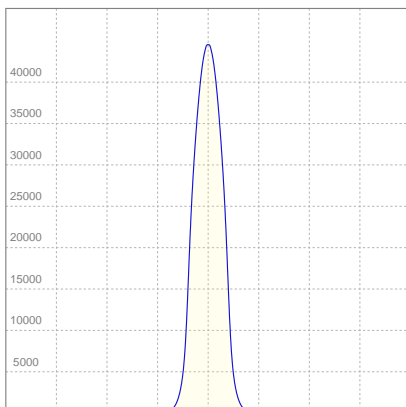
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,5°	45,5°	57,4°	94,4%	92,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	44459lx	11115lx	4940lx	2779lx	1778lx	790lx	445lx	198lx	111lx	71lx	49lx	28lx	18lx
Footcand.	4130fcd	1033fcd	459fcd	258fcd	165fcd	73fcd	41fcd	18fcd	10fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,2m	5,6m	8,5m	11,3m	14,1m	16,9m	22,6m	28,2m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,2ft	13,9ft	18,5ft	27,7ft	37ft	46,2ft	55,5ft	74ft	92,5ft

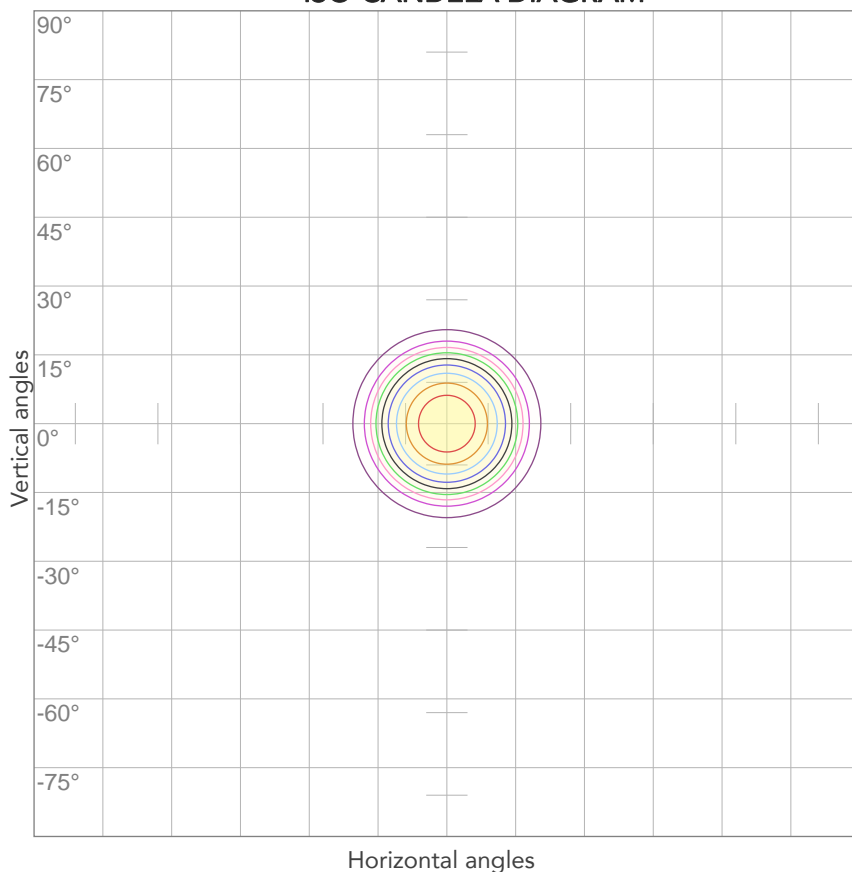
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	1,20A	247,4W	51lm/W
Power FC			
0,92			

ISO CANDELA DIAGRAM



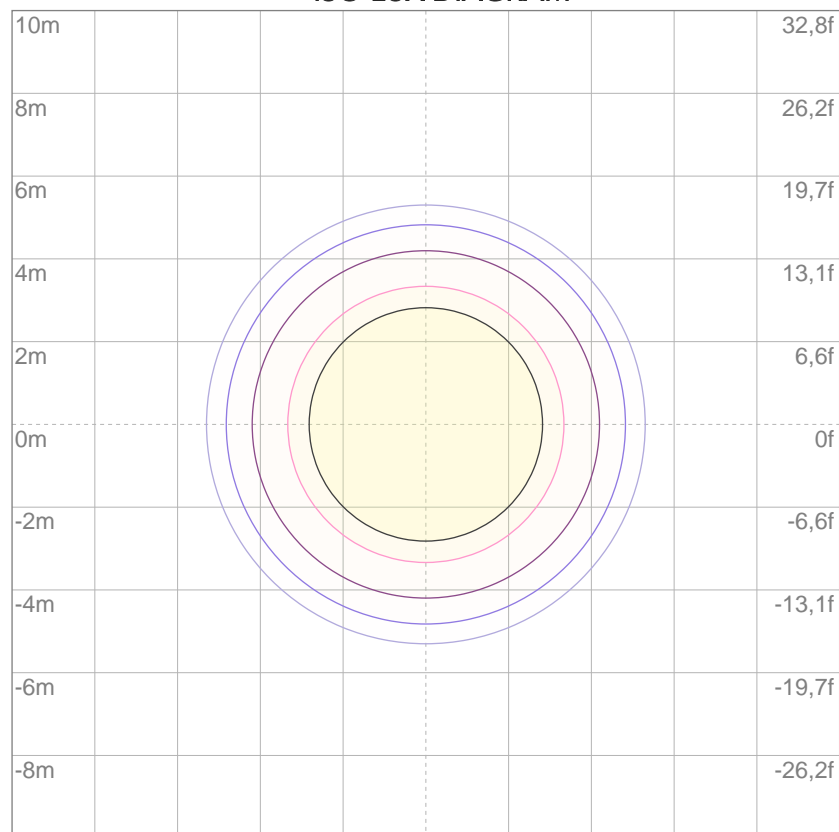
10%	4446 cd
20%	8892 cd
30%	13338 cd
40%	17784 cd
50%	22229 cd
60%	26675 cd
70%	31121 cd
80%	35567 cd

Conditions:

Number of c-planes: 2

Candela at center: 44459 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	13,3 lx
5%	22,2 lx
10%	44,5 lx
30%	133 lx
50%	222 lx

Conditions:

Number of c-planes: 2

Lux at center: 445 lx

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



Total lumen output:

9514 lm

Peak candela output:

90647 cd

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

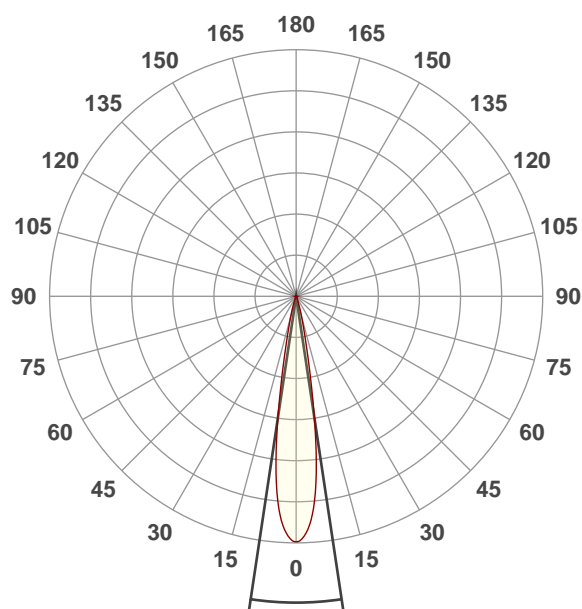
Lime

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:59:04

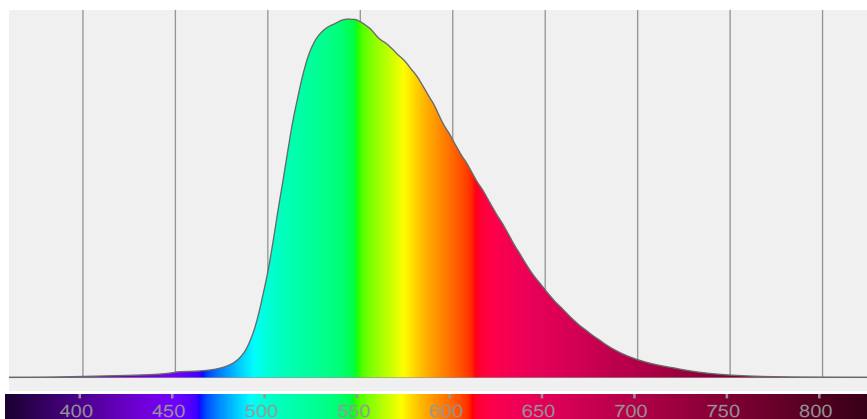


Beam angle 50%: 17,1°

Field angle 10%: 28,7°

Cut off angle 2.5%: 39,1°

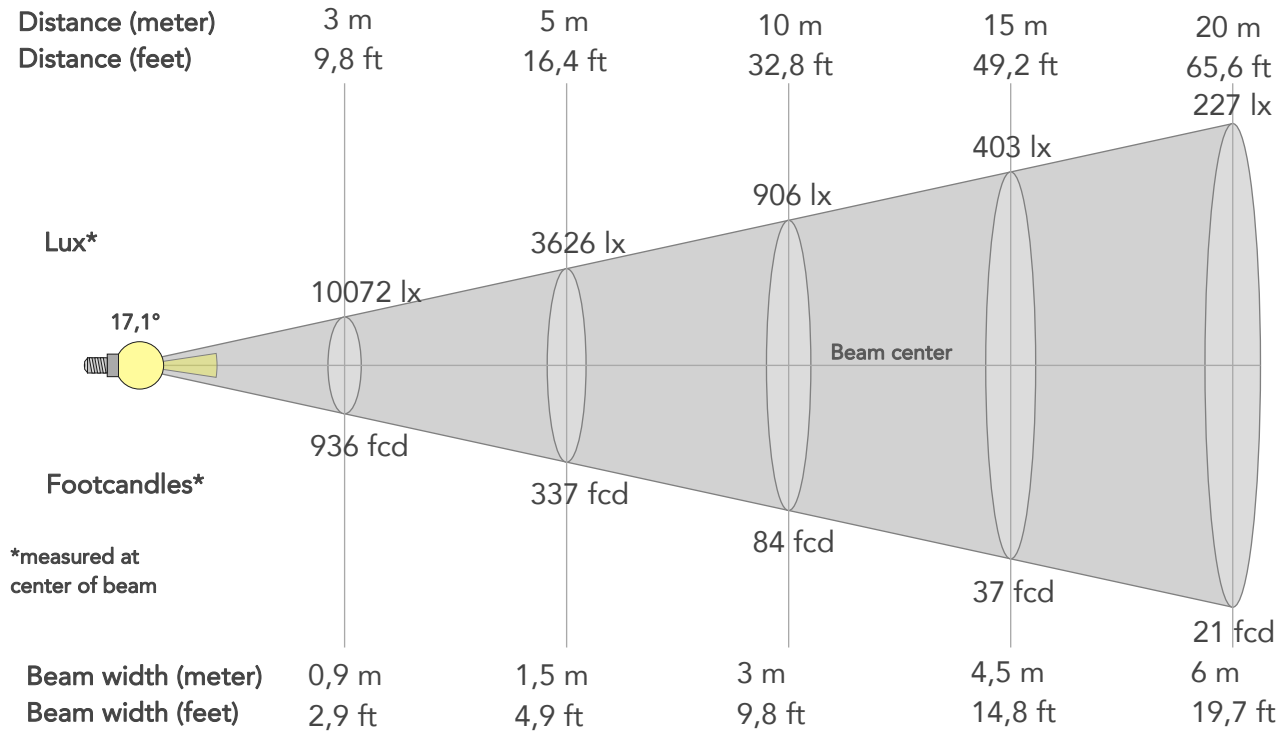
Spectra



BEAM DETAILS



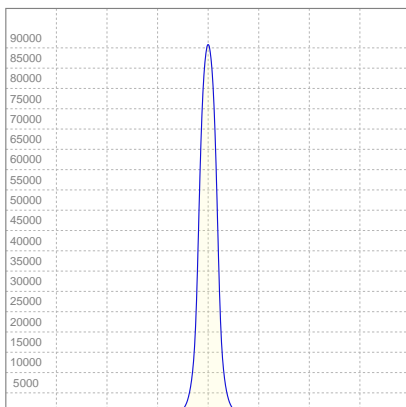
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,1°	28,7°	39,1°	94,8%	93,0%



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	90647lx	22662lx	10072lx	5665lx	3626lx	1611lx	906lx	403lx	227lx	145lx	101lx	57lx	36lx
Footcand.	8421fcd	2105fcd	936fcd	526fcd	337fcd	150fcd	84fcd	37fcd	21fcd	13fcd	9fcd	5fcd	3fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3m	4,5m	6m	7,5m	9m	12m	15m
Beam wid.	1ft	2ft	2,9ft	3,9ft	4,9ft	7,4ft	9,8ft	14,8ft	19,7ft	24,6ft	29,5ft	39,4ft	49,2ft

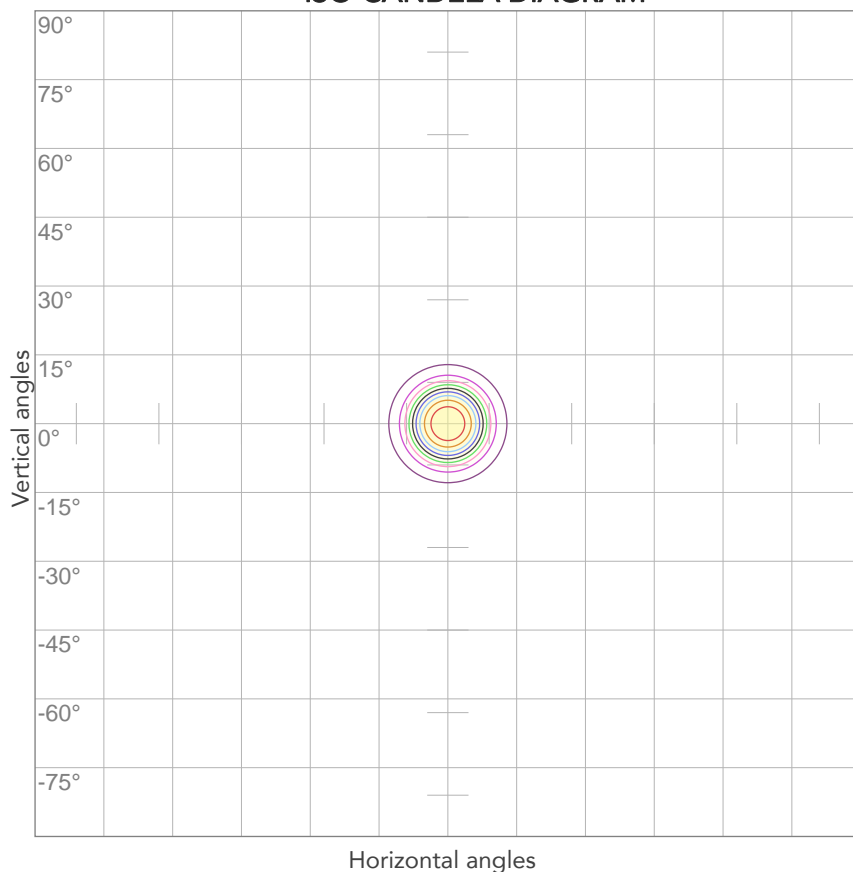
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	1,21A	246,2W	39lm/W
Power FC			
0,92			

ISO CANDELA DIAGRAM



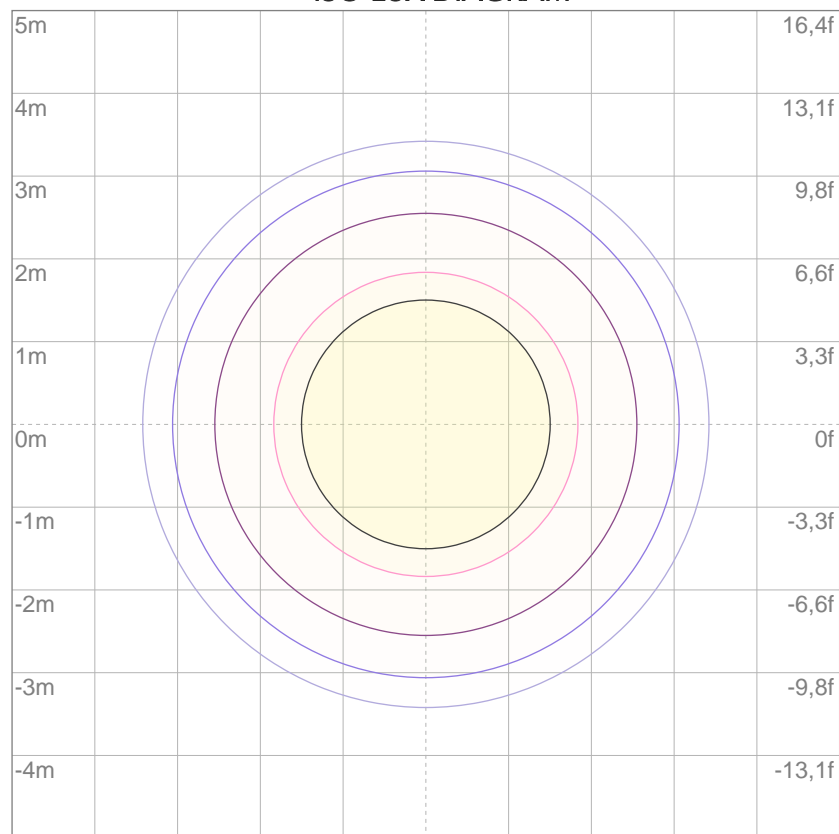
10%	9065 cd
20%	18129 cd
30%	27194 cd
40%	36259 cd
50%	45323 cd
60%	54388 cd
70%	63453 cd
80%	72517 cd

Conditions:

Number of c-planes: 2

Candela at center: 90647 cd

ISO LUX DIAGRAM



3%	27,2 lx
5%	45,3 lx
10%	90,6 lx
30%	272 lx
50%	453 lx

Conditions:

Number of c-planes: 2

Lux at center: 906 lx

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



Total lumen output:

8190 lm

Peak candela output:

10792 cd

Light quality:

CRI: 89,2

Color temperature:

2825 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

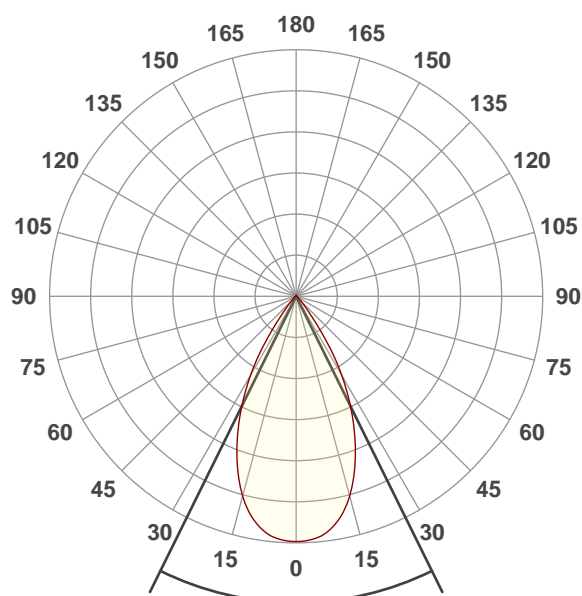
2800K

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:58:28

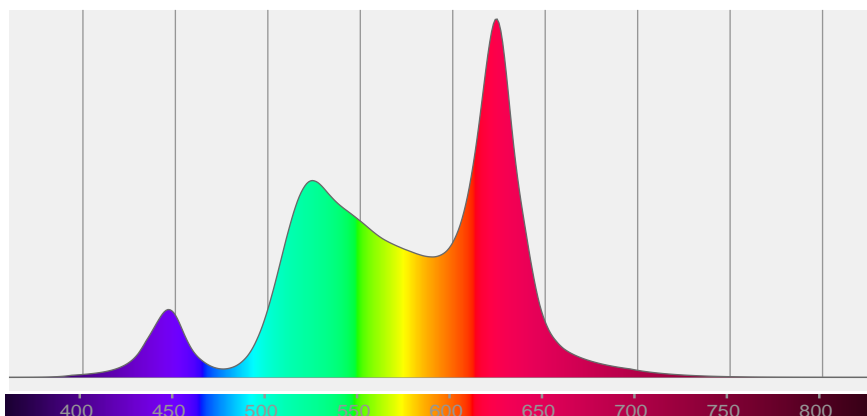


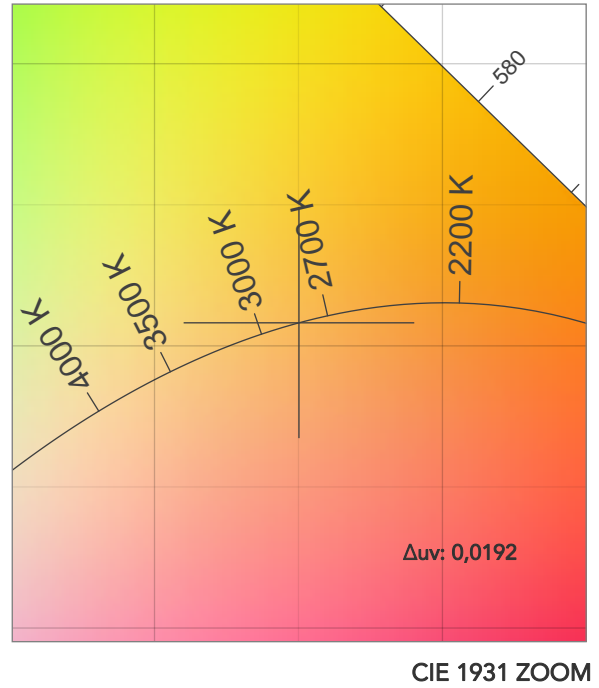
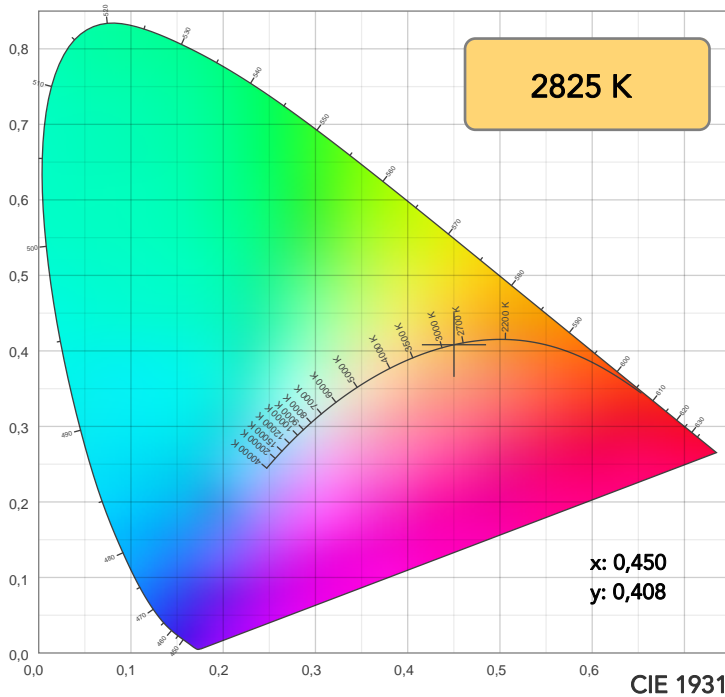
Beam angle 50%: 52,6°

Field angle 10%: 75,6°

Cut off angle 2.5%: 91,6°

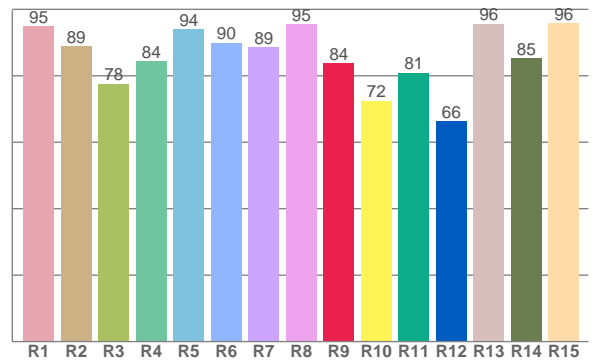
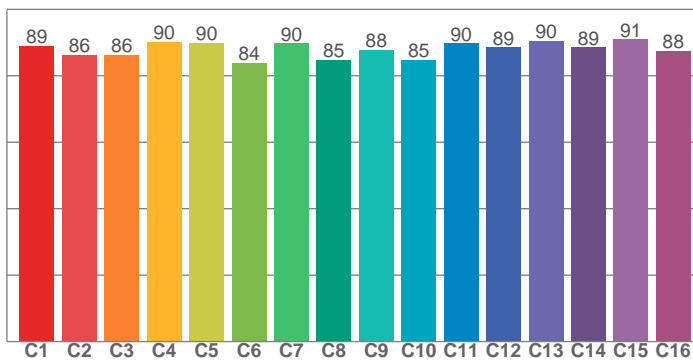
Spectra





TM30: 88,1

CRI: 89,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,9	89,0	77,6	84,5	94,0	89,9	88,6	95,5	83,8	72,5	80,9	66,3	95,7	85,3	95,8

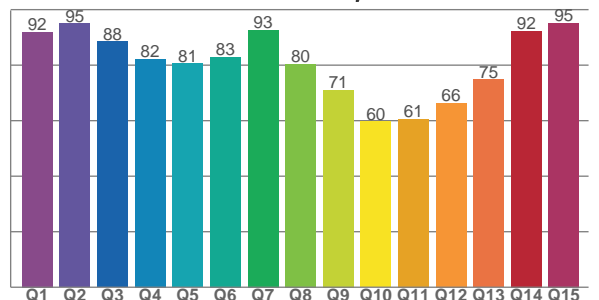
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,0	86,3	86,3	90,1	89,8	84,0	89,7	84,8	87,8	84,8	89,7	88,5	90,5	88,6	91,0	87,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,9	95,0	88,5	82,3	80,5	83,0	92,6	80,4	71,1	59,6	60,6	66,4	74,7	92,3	95,1

CQS: 77,5



COLOR PARAMETERS

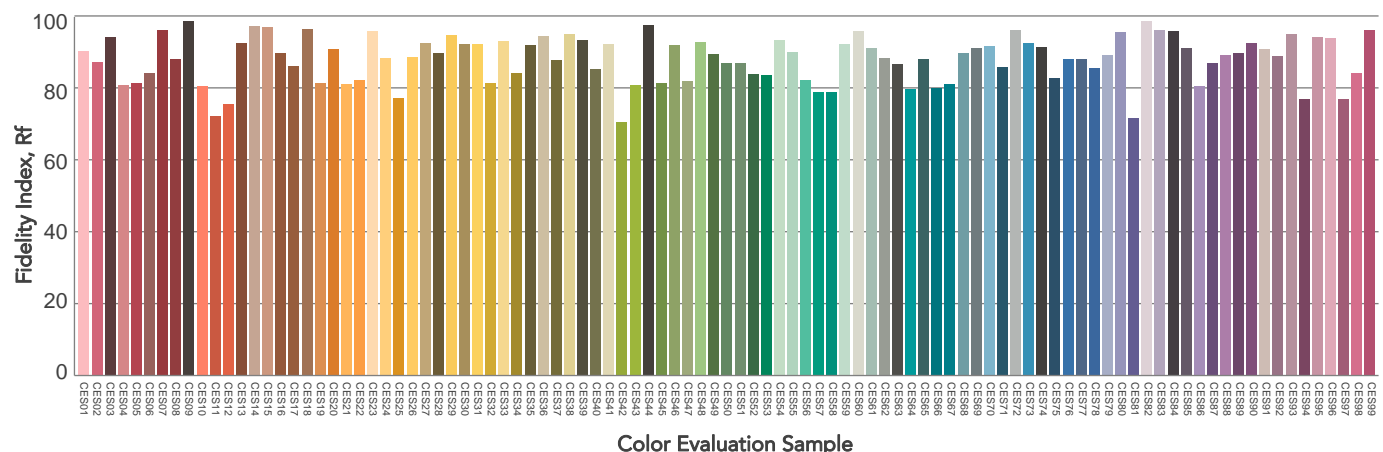
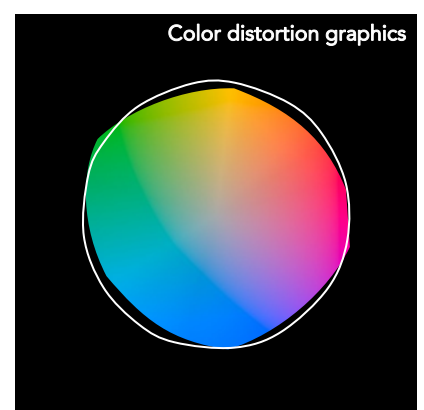
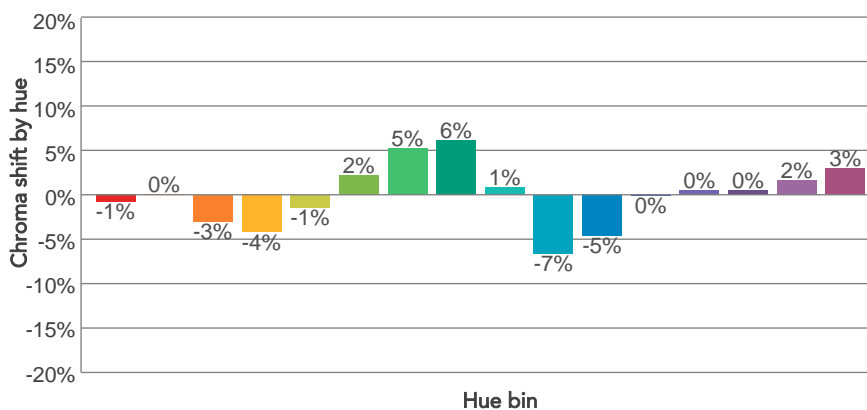
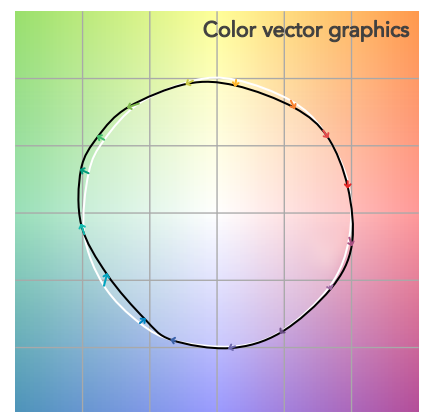
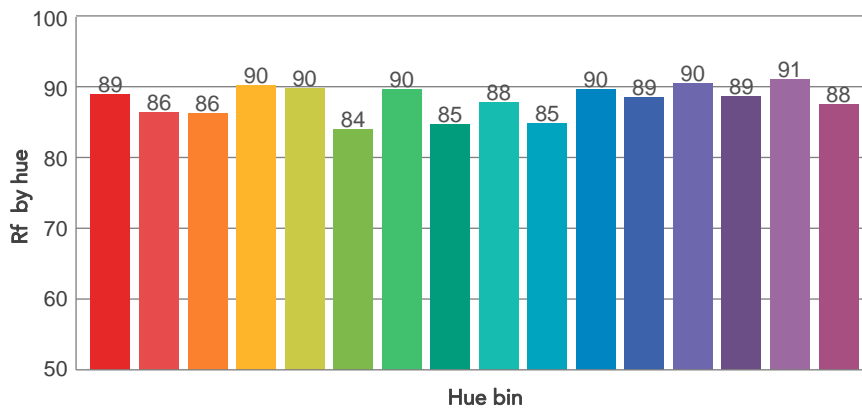
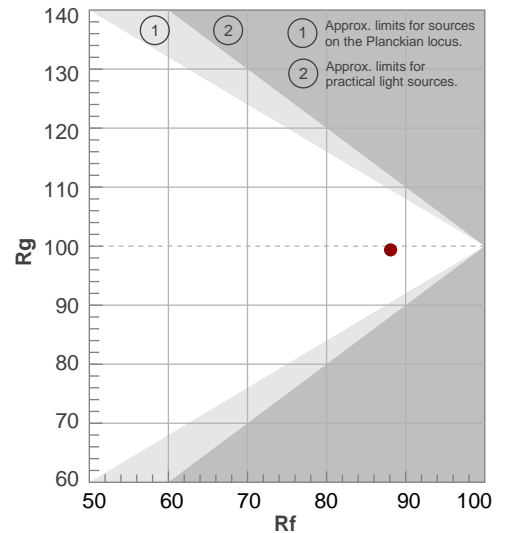
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2825 K	89,2	83,8	88,1	99,4	77,5	59	0,450	0,408	0,0192

TM30 DETAILS

Rf 88,1
Fidelity index Rf

Rg 99,4
Gammut index

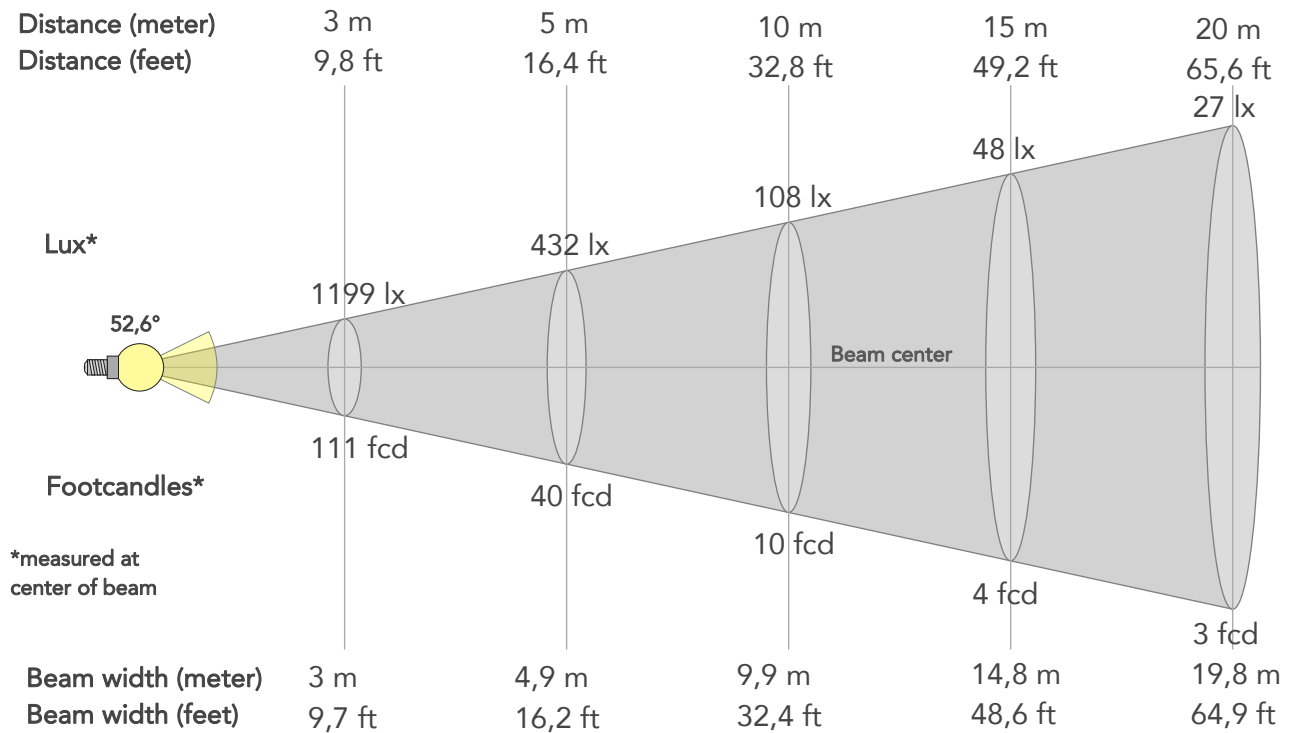
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	-1%	-4%
2	86	0%	-6%
3	86	-3%	-5%
4	90	-4%	0%
5	90	-1%	5%
6	84	2%	8%
7	90	5%	1%
8	85	6%	-1%
9	88	1%	-7%
10	85	-7%	-6%
11	90	-5%	1%
12	89	0%	-3%
13	90	0%	-5%
14	89	0%	-2%
15	91	2%	-1%
16	88	3%	-5%



BEAM DETAILS



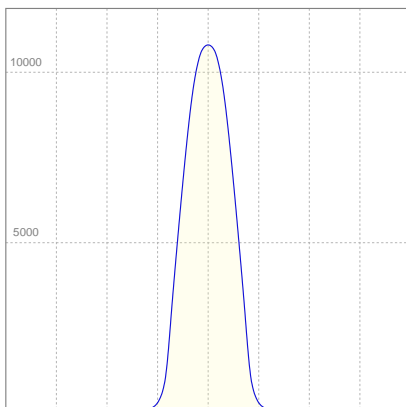
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,6°	75,6°	91,6°	95,8%	93,3%



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	10792lx	2698lx	1199lx	675lx	432lx	192lx	108lx	48lx	27lx	17lx	12lx	7lx	4lx
Footcand.	1003fcd	251fcd	111fcd	63fcd	40fcd	18fcd	10fcd	4fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	1m	2m	3m	4m	4,9m	7,4m	9,9m	14,8m	19,8m	24,7m	29,7m	39,6m	49,4m
Beam wid.	3,3ft	6,5ft	9,7ft	13ft	16,2ft	24,3ft	32,4ft	48,6ft	64,9ft	81,1ft	97,3ft	129,7ft	162,2ft

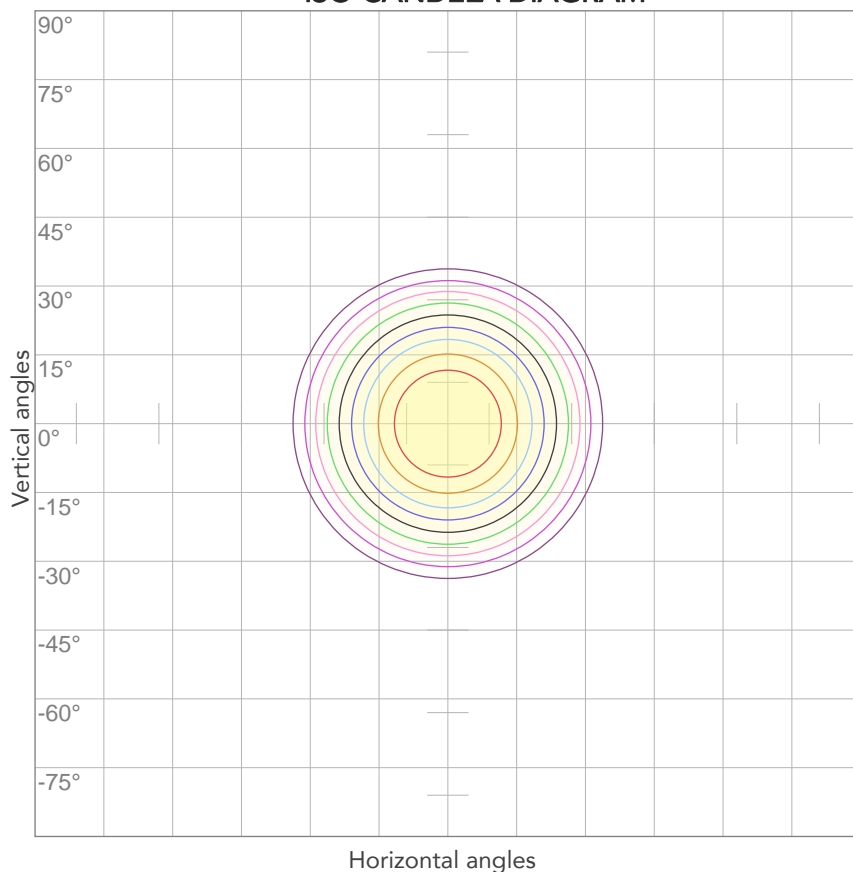
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,996A	198,6W	41lm/W

ISO CANDELA DIAGRAM



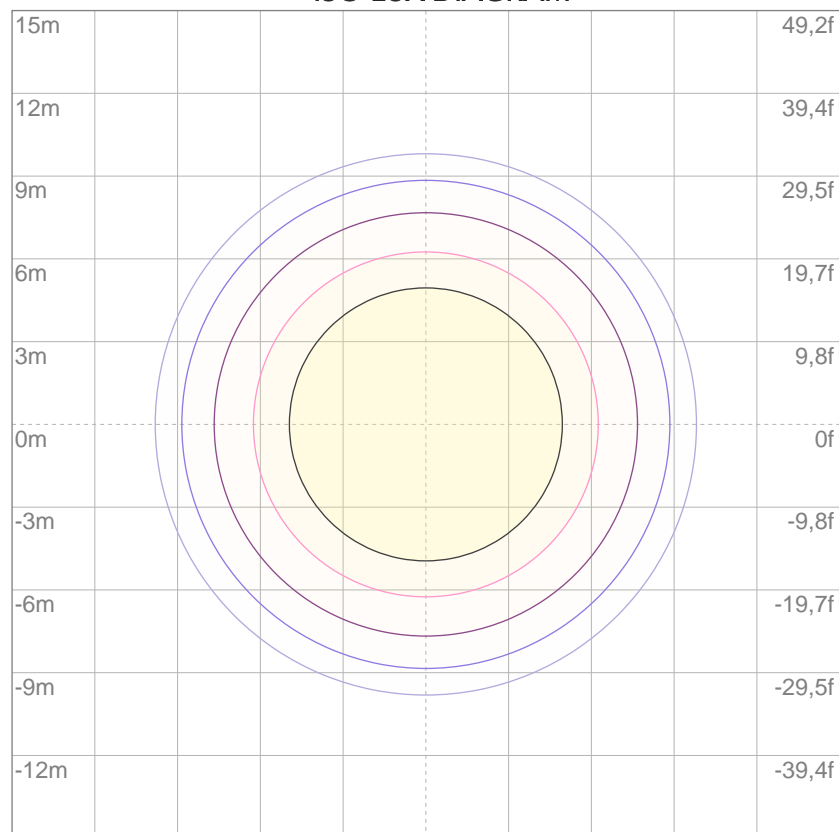
10%	1079 cd
20%	2158 cd
30%	3238 cd
40%	4317 cd
50%	5396 cd
60%	6475 cd
70%	7555 cd
80%	8634 cd

Conditions:

Number of c-planes: 2

Candela at center: 10792 cd

ISO LUX DIAGRAM



3%	3,24 lx
5%	5,40 lx
10%	10,8 lx
30%	32,4 lx
50%	54,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 108 lx

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



Total lumen output:

11078 lm

Peak candela output:

38878 cd

Light quality:

CRI: 88,8

Color temperature:

2825 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

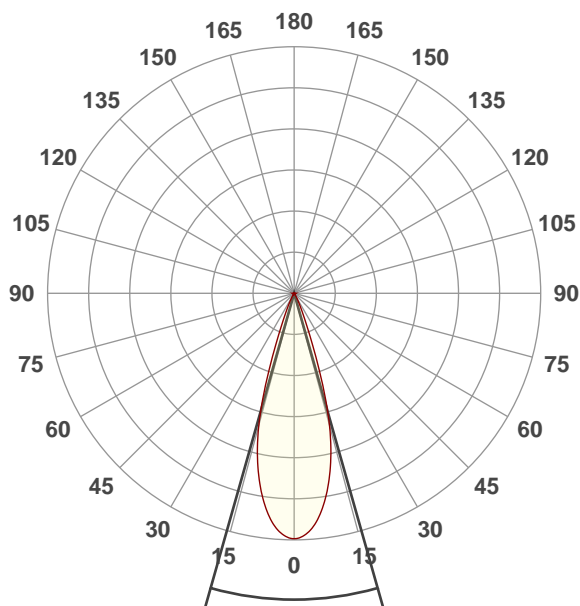
2800K

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:10:08

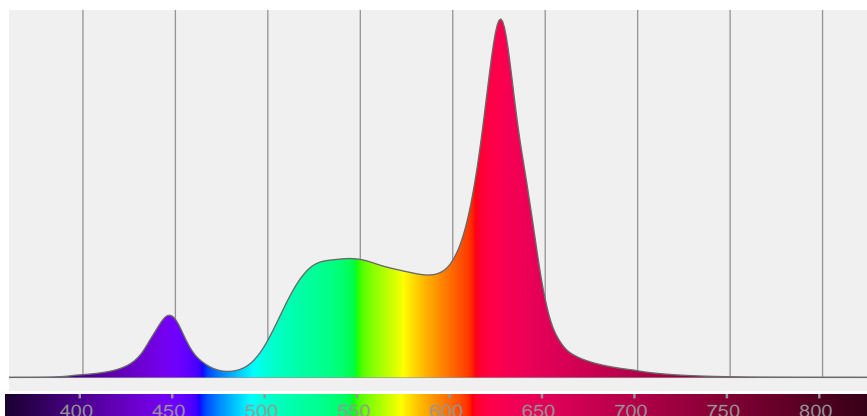


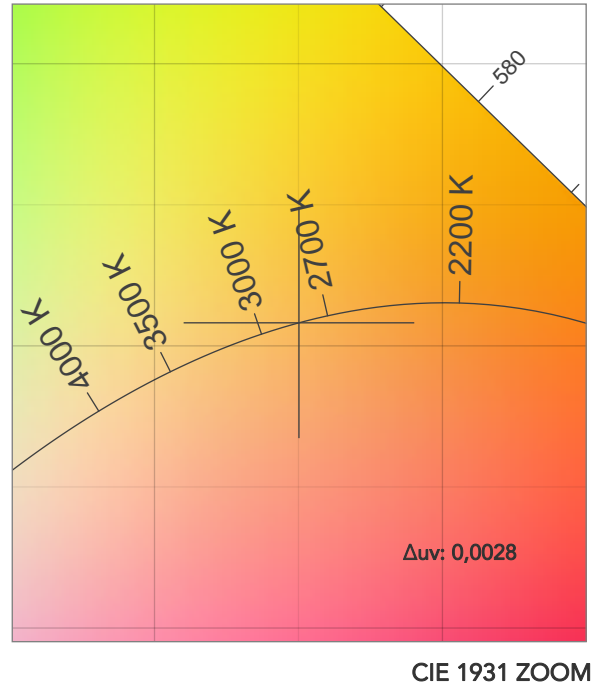
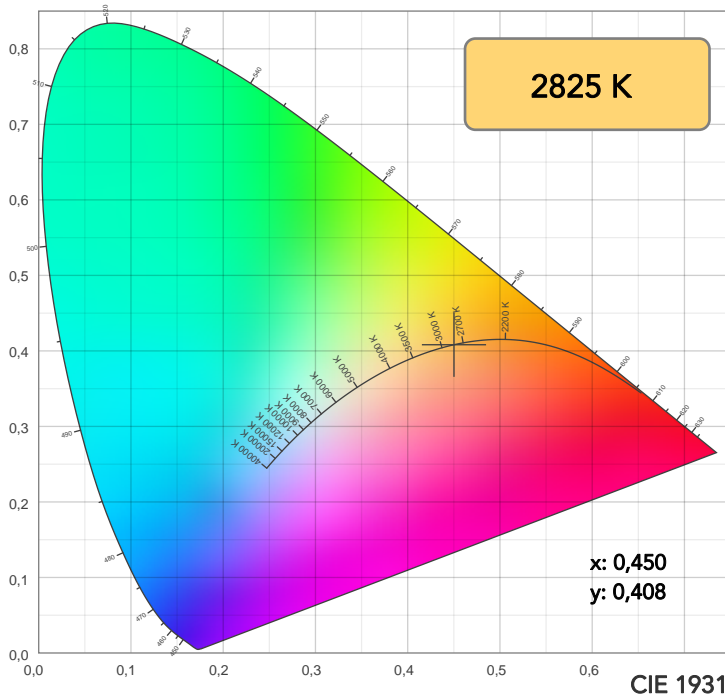
Beam angle 50%: 31,6°

Field angle 10%: 45,5°

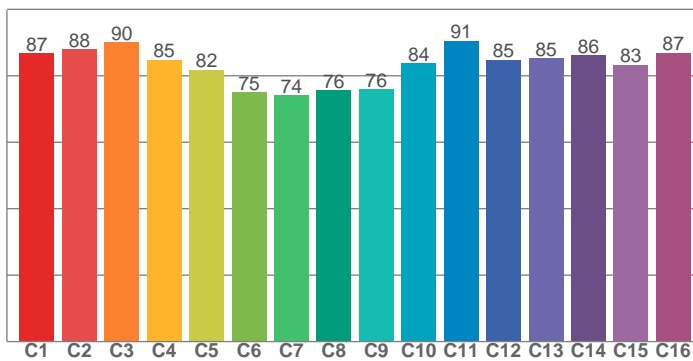
Cut off angle 2.5%: 57,3°

Spectra

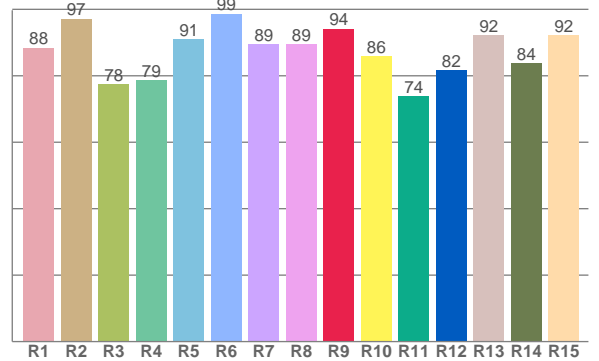




TM30: 84,0



CRI: 88,8 (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
88,4	97,2	77,5	78,7	91,1	98,7	89,5	89,5	94,2	85,9	73,9	81,7	92,2	83,8	92,1

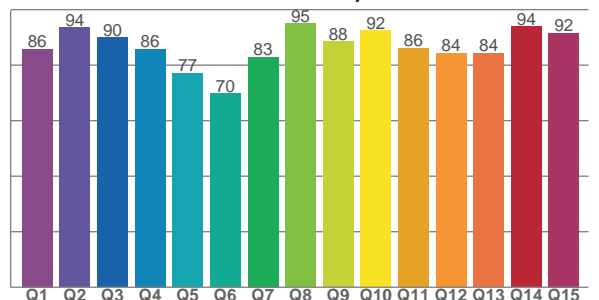
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
86,8	88,0	90,1	84,8	81,8	75,0	74,2	75,6	75,9	83,7	90,5	84,8	85,3	86,2	83,3	86,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,9	93,6	90,0	85,8	77,1	69,8	82,9	95,0	88,4	92,4	86,2	84,4	84,2	93,9	91,7

CQS: 84,9



COLOR PARAMETERS

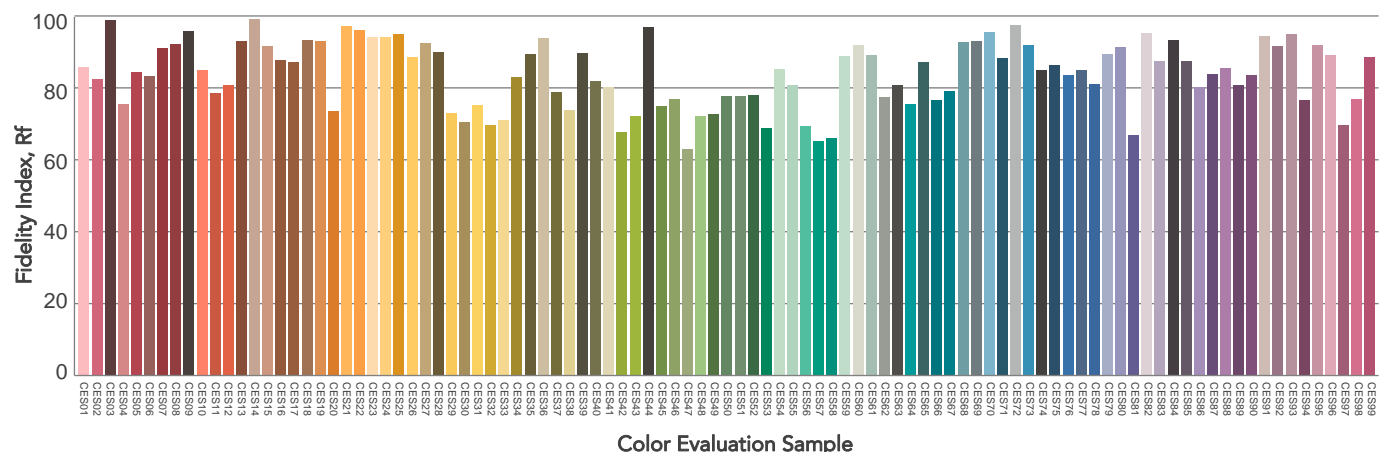
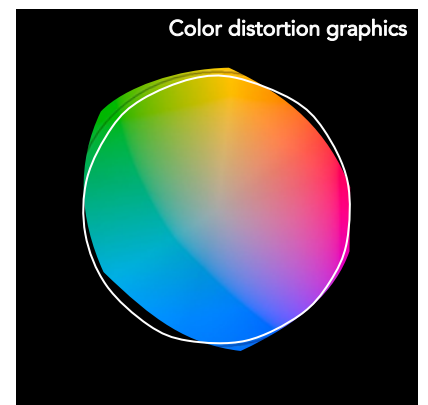
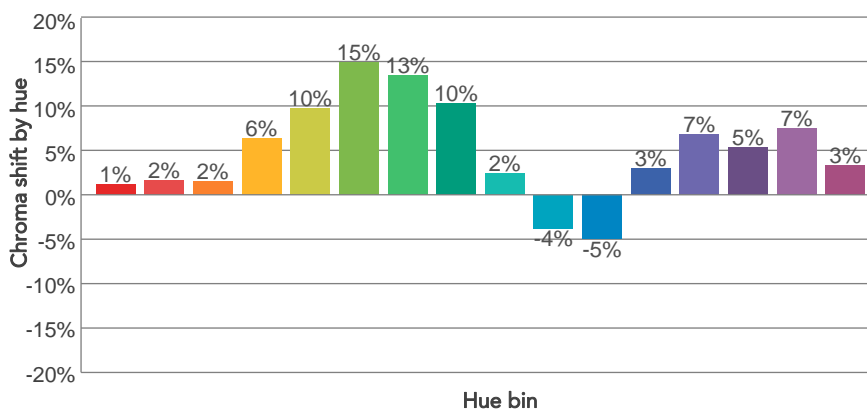
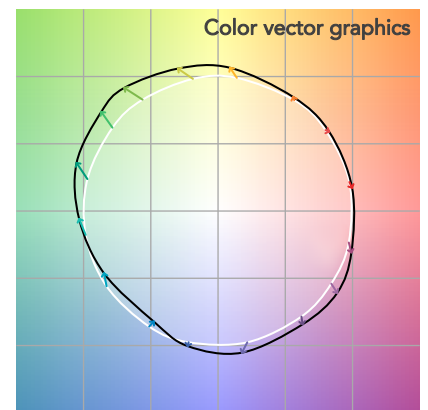
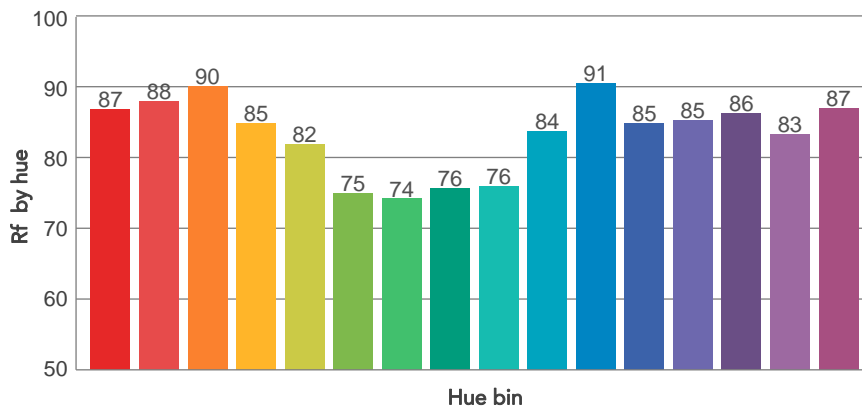
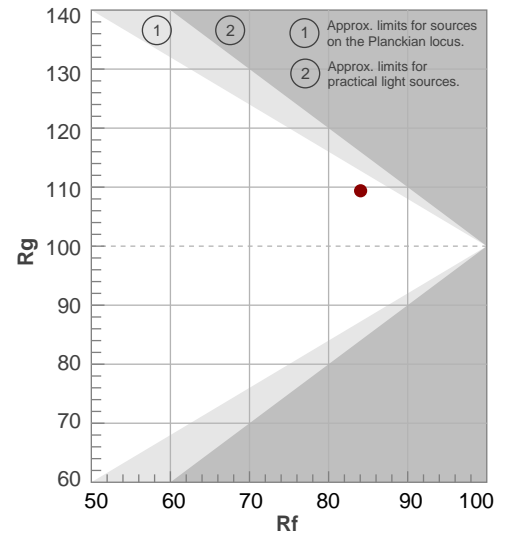
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2825 K	88,8	94,2	84,0	109,4	84,9	67	0,450	0,408	0,0028

TM30 DETAILS

Rf 84,0
Fidelity index Rf

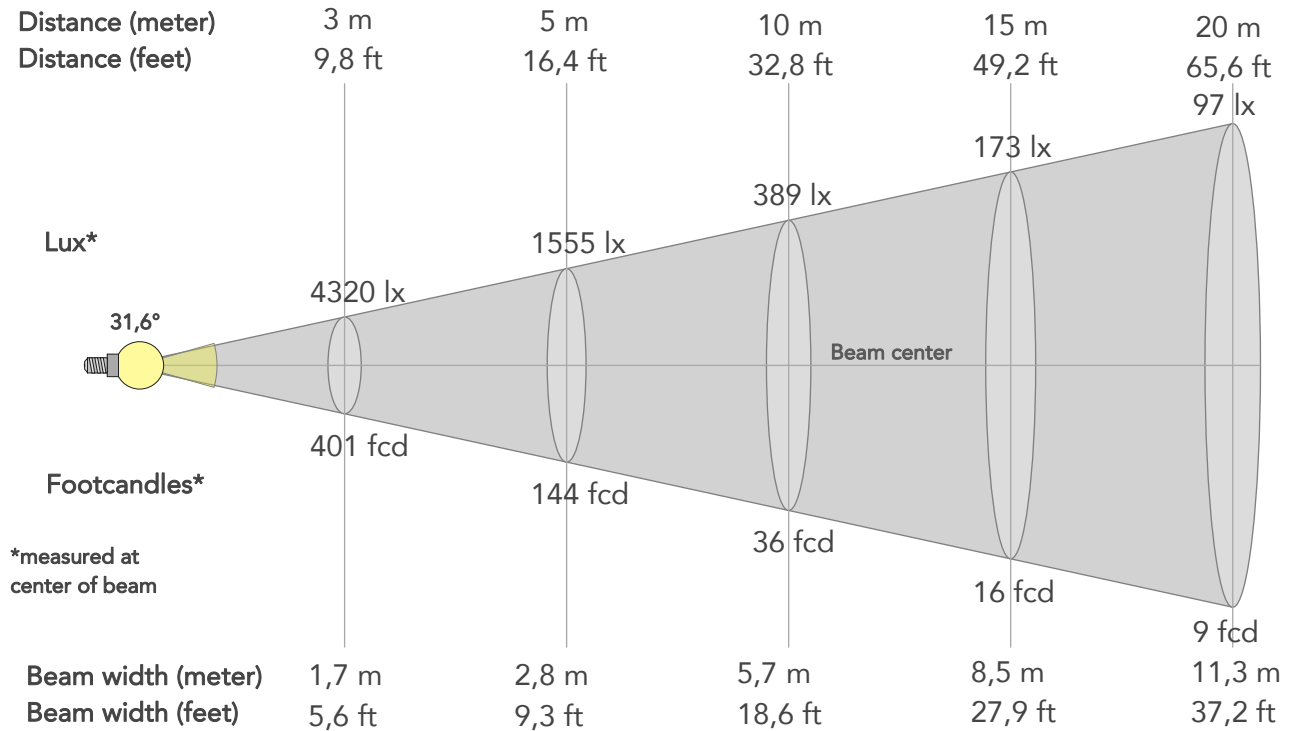
Rg 109,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	87	1%	-5%
2	88	2%	-2%
3	90	2%	2%
4	85	6%	6%
5	82	10%	9%
6	75	15%	6%
7	74	13%	-5%
8	76	10%	-10%
9	76	2%	-13%
10	84	-4%	-9%
11	91	-5%	1%
12	85	3%	0%
13	85	7%	-5%
14	86	5%	-3%
15	83	7%	-3%
16	87	3%	-7%



BEAM DETAILS

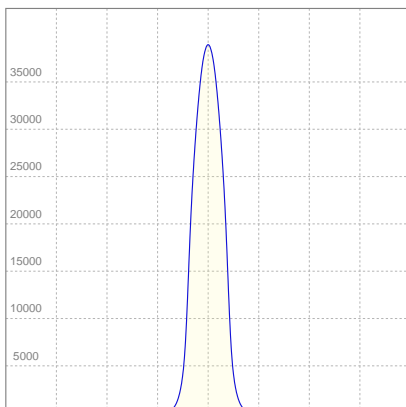
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,6°	45,5°	57,3°	94,8%	93,3%



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	38878lx	9719lx	4320lx	2430lx	1555lx	691lx	389lx	173lx	97lx	62lx	43lx	24lx	16lx
Footcand.	3612fcd	903fcd	401fcd	226fcd	144fcd	64fcd	36fcd	16fcd	9fcd	6fcd	4fcd	2fcd	1fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,2m	5,7m	8,5m	11,3m	14,2m	17m	22,7m	28,3m
Beam wid.	1,9ft	3,7ft	5,6ft	7,4ft	9,3ft	13,9ft	18,6ft	27,9ft	37,2ft	46,5ft	55,8ft	74,3ft	92,9ft

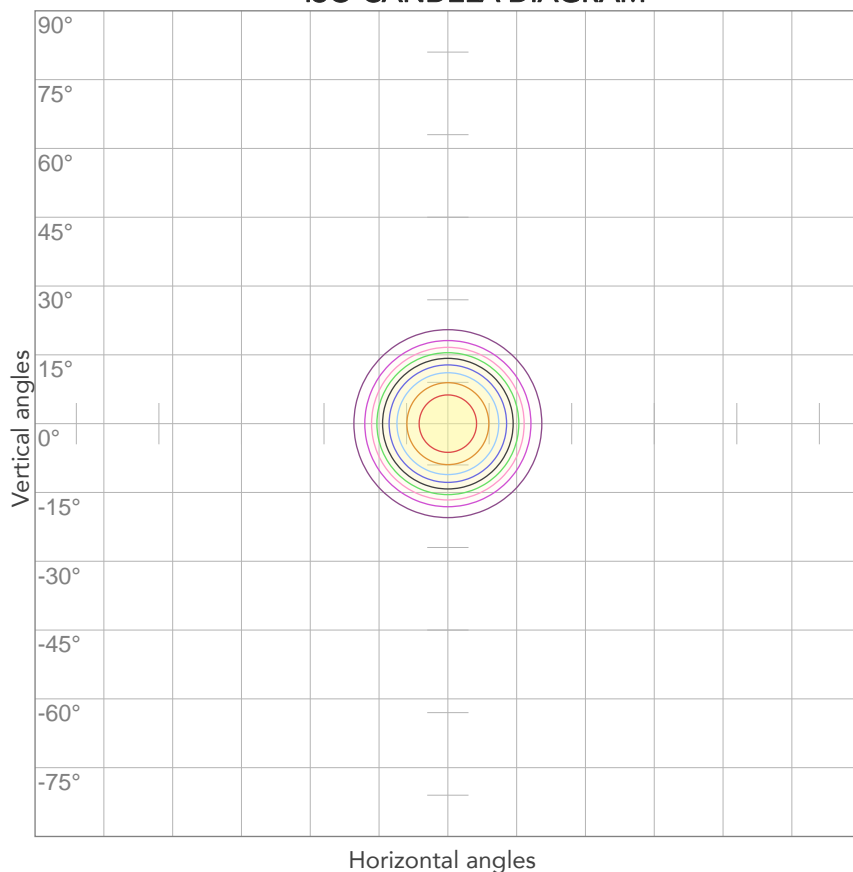
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	1,31A	271,1W	41lm/W

ISO CANDELA DIAGRAM



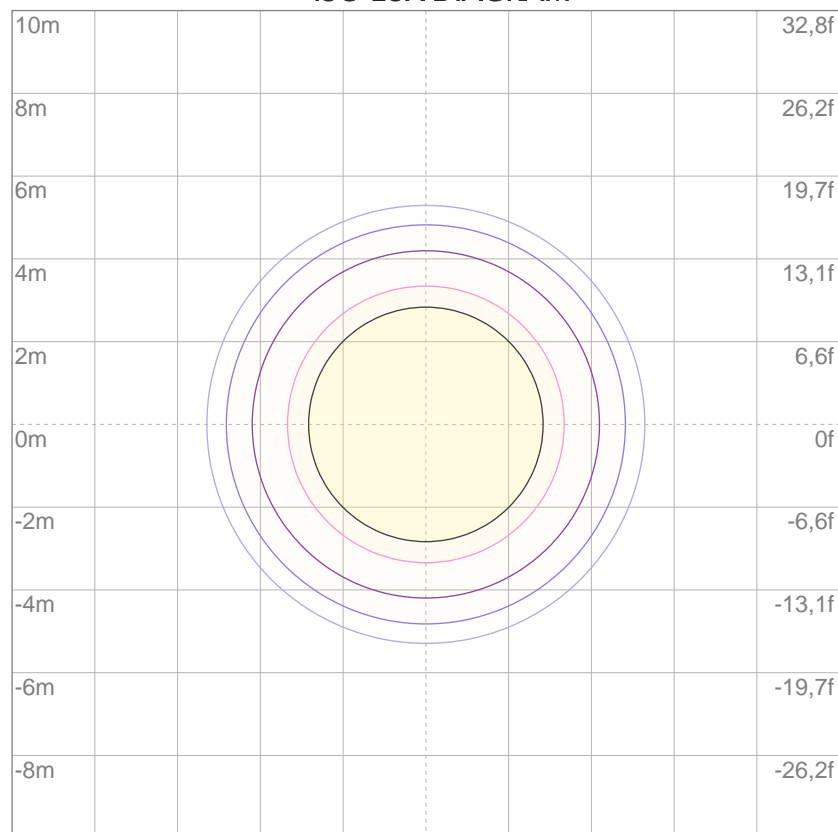
10%	3888 cd
20%	7776 cd
30%	11663 cd
40%	15551 cd
50%	19439 cd
60%	23327 cd
70%	27214 cd
80%	31102 cd

Conditions:

Number of c-planes: 2

Candela at center: 38878 cd

ISO LUX DIAGRAM



3%	11,7 lx
5%	19,4 lx
10%	38,9 lx
30%	117 lx
50%	194 lx

Conditions:

Number of c-planes: 2

Lux at center: 389 lx

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



Total lumen output:

8061 lm

Peak candela output:

79038 cd

Light quality:

CRI: 89,2

Color temperature:

2825 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

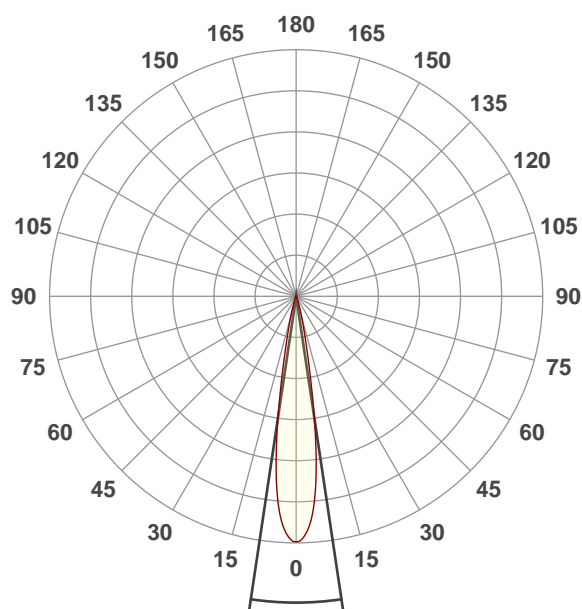
2800K

Operator:

Paolo Carvone

Date and time:

30/01/2020 11:01:01

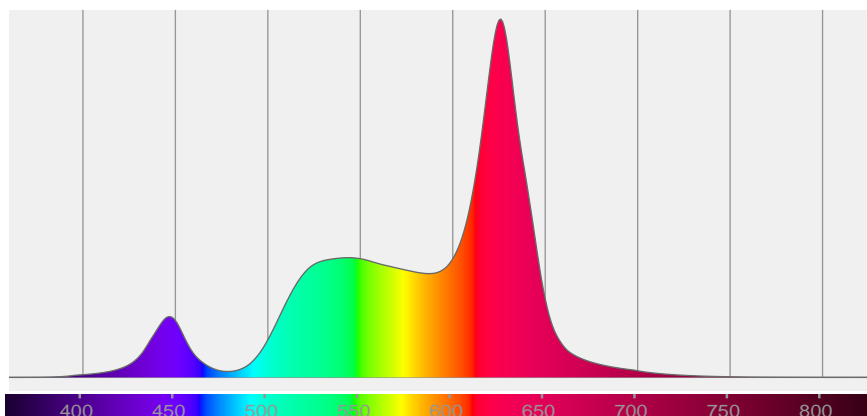


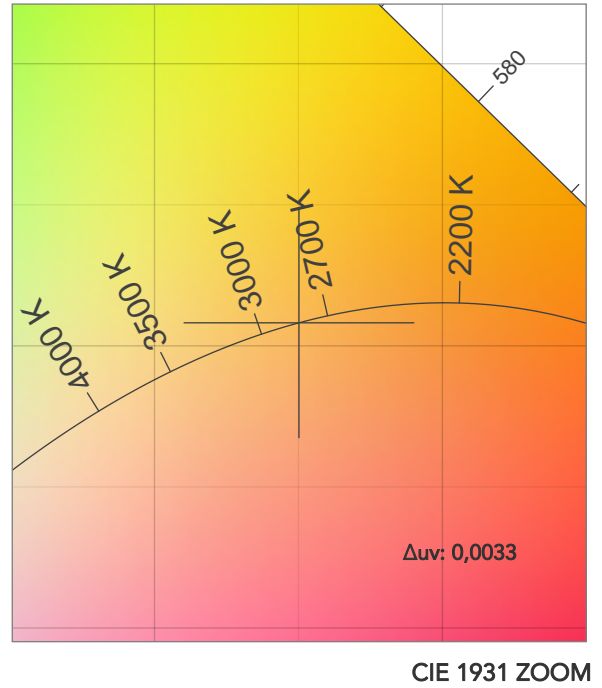
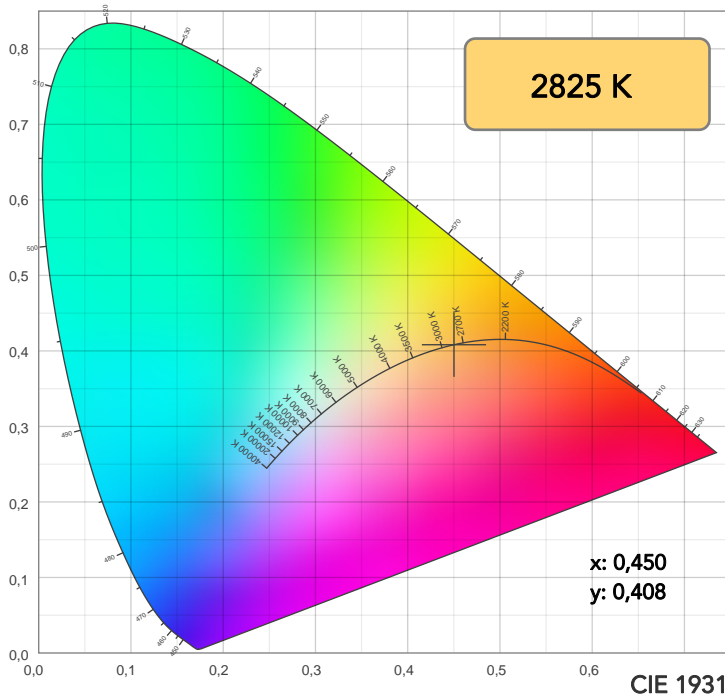
Beam angle 50%: 17°

Field angle 10%: 28,7°

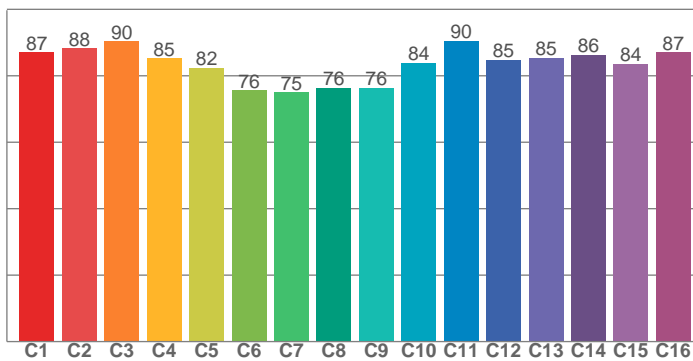
Cut off angle 2.5%: 39°

Spectra

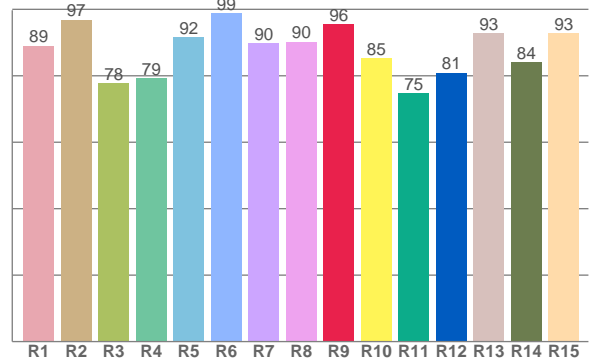




TM30: 84,4



CRI: 89,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
89,1	96,8	77,7	79,4	91,7	98,7	89,7	90,3	95,5	85,2	74,8	80,9	92,9	84,0	92,9

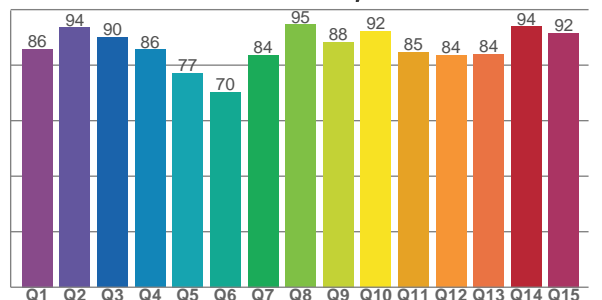
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,0	88,2	90,4	85,3	82,3	75,6	75,0	76,3	76,3	83,9	90,4	84,9	85,4	86,3	83,7	87,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,9	93,5	90,1	85,6	77,2	70,4	83,6	94,6	88,4	92,3	84,7	83,7	84,1	93,9	91,5

CQS: 84,9



COLOR PARAMETERS

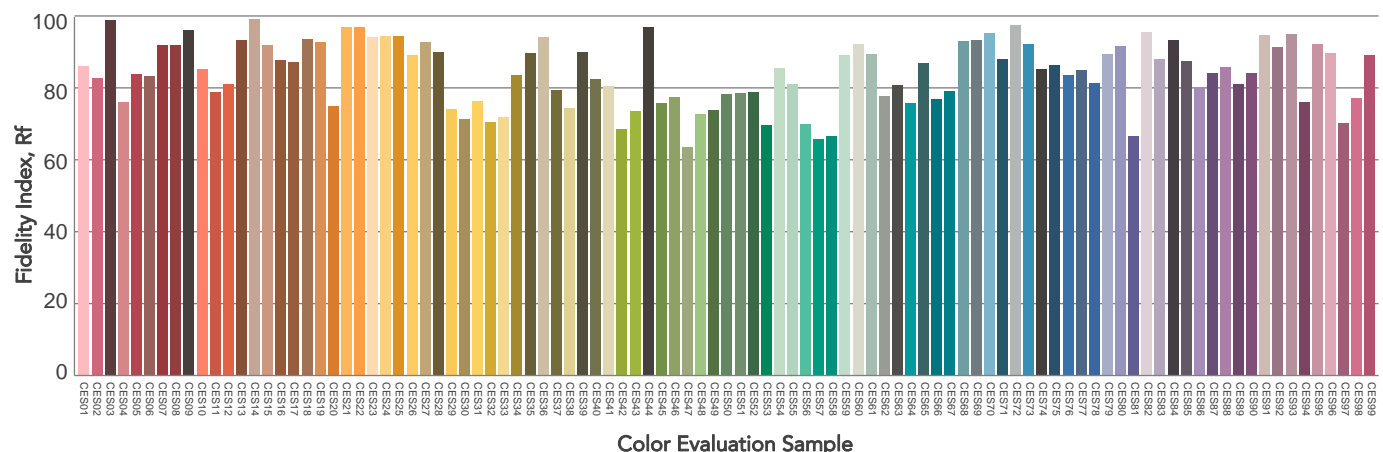
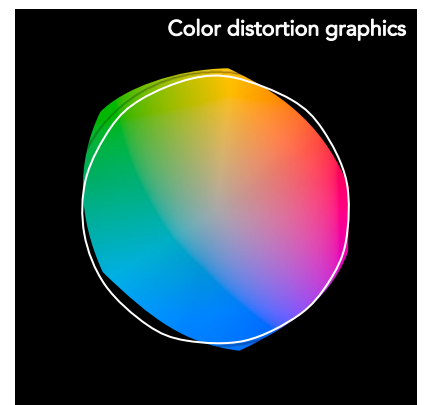
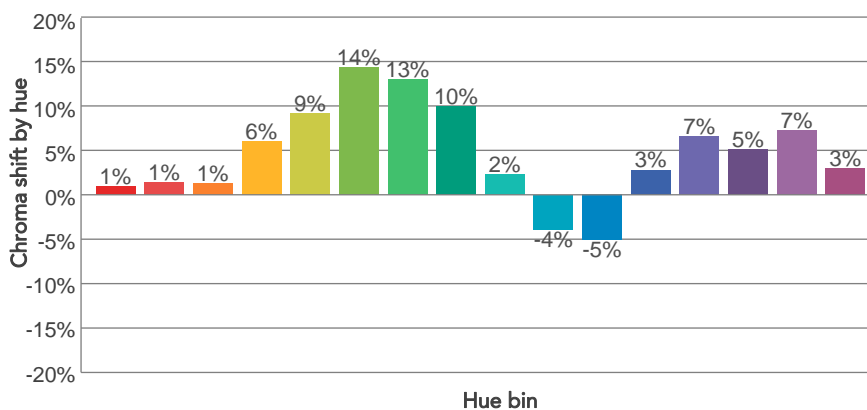
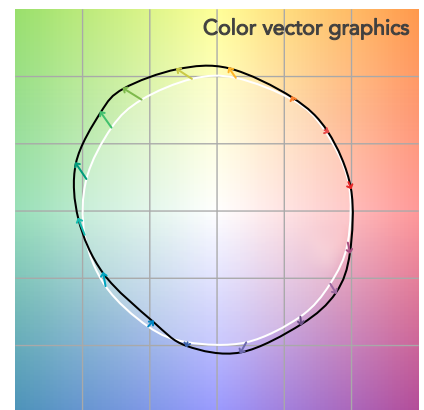
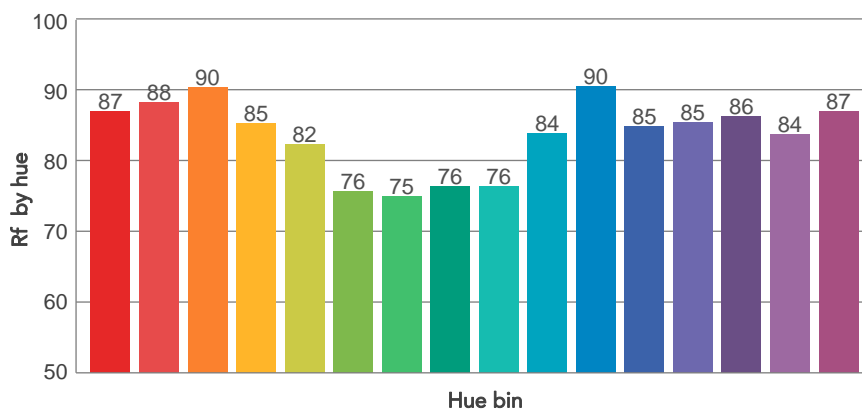
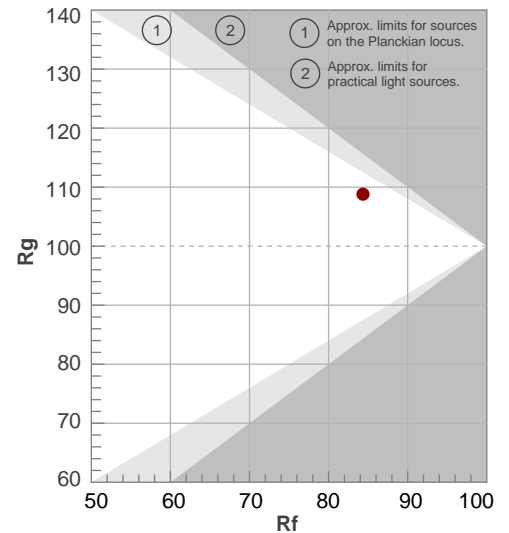
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2825 K	89,2	95,5	84,4	108,8	84,9	68	0,450	0,408	0,0033

TM30 DETAILS

Rf 84,4
Fidelity index Rf

Rg 108,8
Gammut index

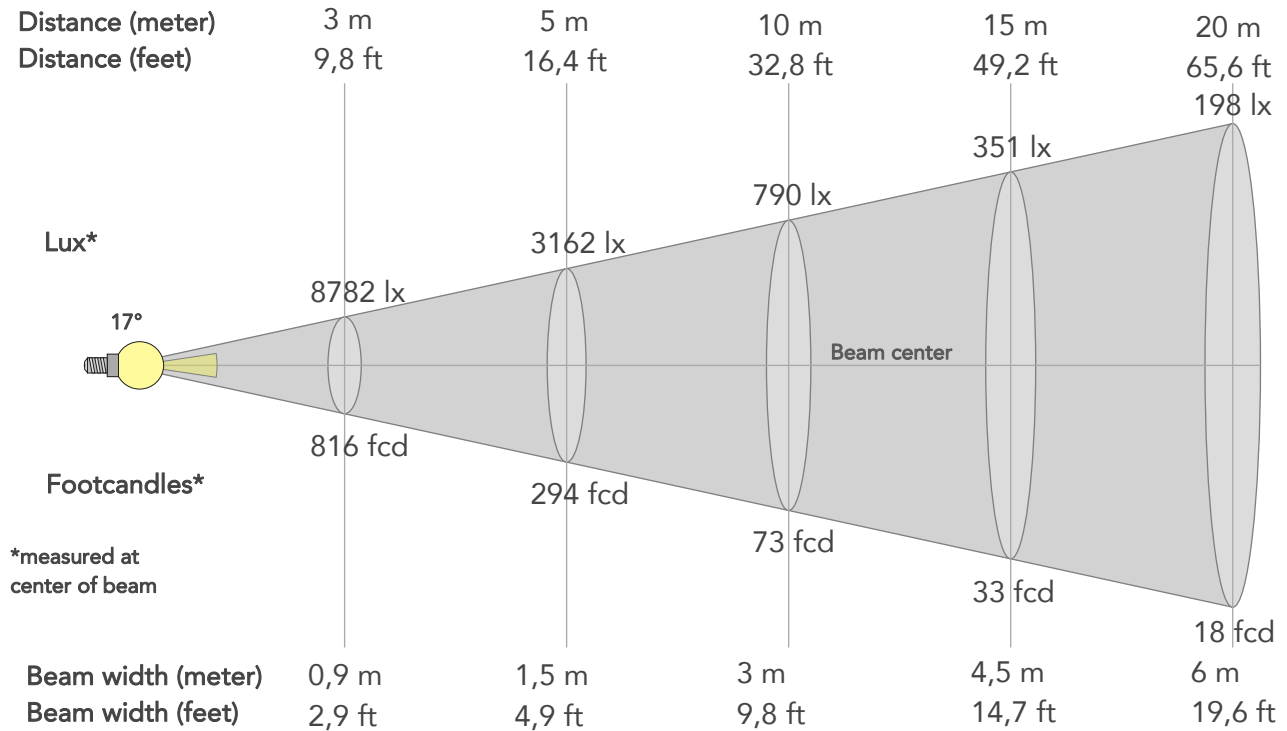
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	87	1%	-5%
2	88	1%	-3%
3	90	1%	2%
4	85	6%	6%
5	82	9%	9%
6	76	14%	7%
7	75	13%	-5%
8	76	10%	-10%
9	76	2%	-12%
10	84	-4%	-9%
11	90	-5%	1%
12	85	3%	0%
13	85	7%	-6%
14	86	5%	-3%
15	84	7%	-3%
16	87	3%	-7%



BEAM DETAILS



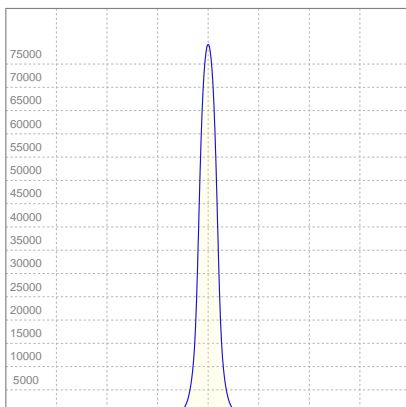
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17°	28,7°	39°	96,4%	94,9%



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	79038lx	19760lx	8782lx	4940lx	3162lx	1405lx	790lx	351lx	198lx	126lx	88lx	49lx	32lx
Footcand.	7343fcd	1836fcd	816fcd	459fcd	294fcd	131fcd	73fcd	33fcd	18fcd	12fcd	8fcd	5fcd	3fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,2m	3m	4,5m	6m	7,5m	9m	12m	15m
Beam wid.	1ft	2ft	2,9ft	3,9ft	4,9ft	7,4ft	9,8ft	14,7ft	19,6ft	24,5ft	29,4ft	39,3ft	49,1ft

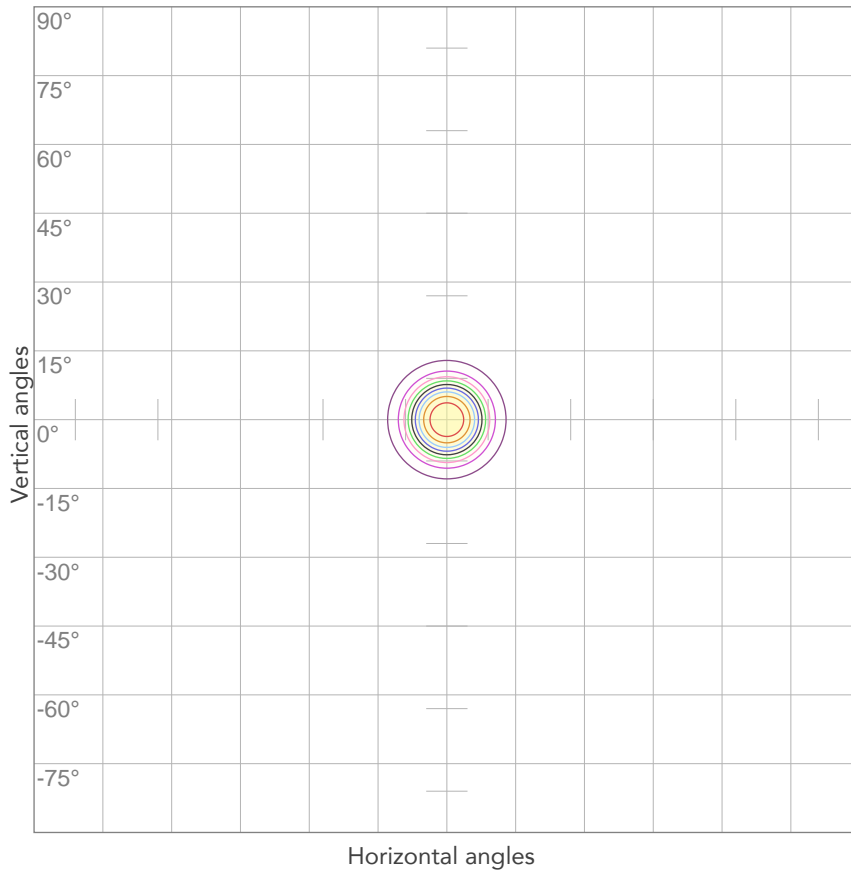
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
221V	1,31A	268,6W	30lm/W

ISO CANDELA DIAGRAM



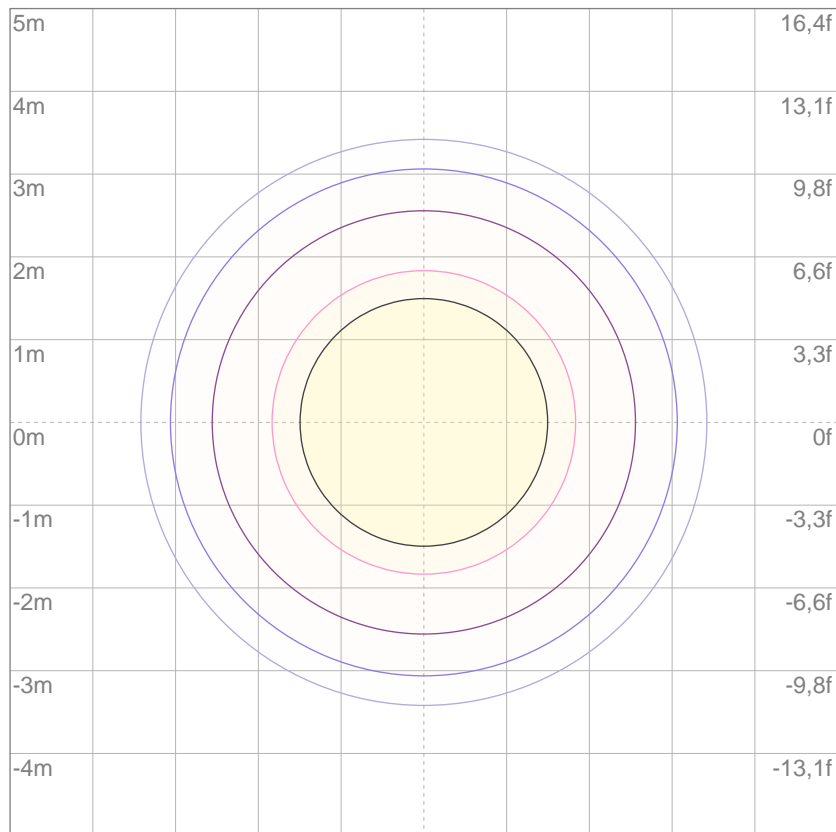
10%	7904 cd
20%	15808 cd
30%	23712 cd
40%	31615 cd
50%	39519 cd
60%	47423 cd
70%	55327 cd
80%	63231 cd

Conditions:

Number of c-planes: 2

Candela at center: 79038 cd

ISO LUX DIAGRAM



3%	23,7 lx
5%	39,5 lx
10%	79,0 lx
30%	237 lx
50%	395 lx

Conditions:

Number of c-planes: 2

Lux at center: 790 lx

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



Total lumen output:

8626 lm

Peak candela output:

11367 cd

Light quality:

CRI: 89,8

Color temperature:

3218 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

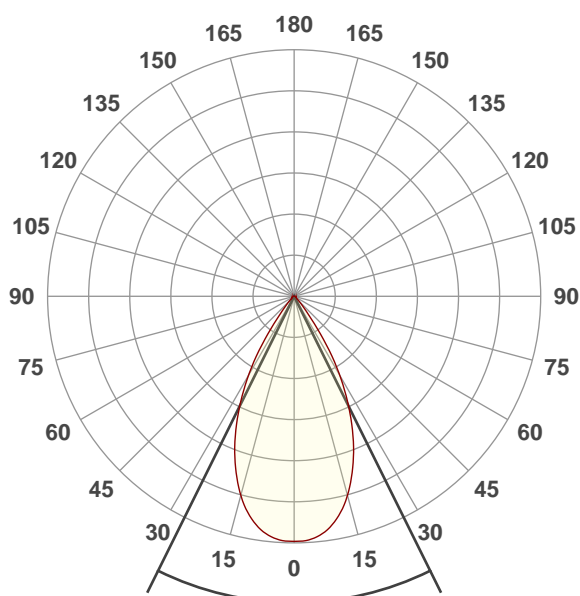
3200K

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:56:38

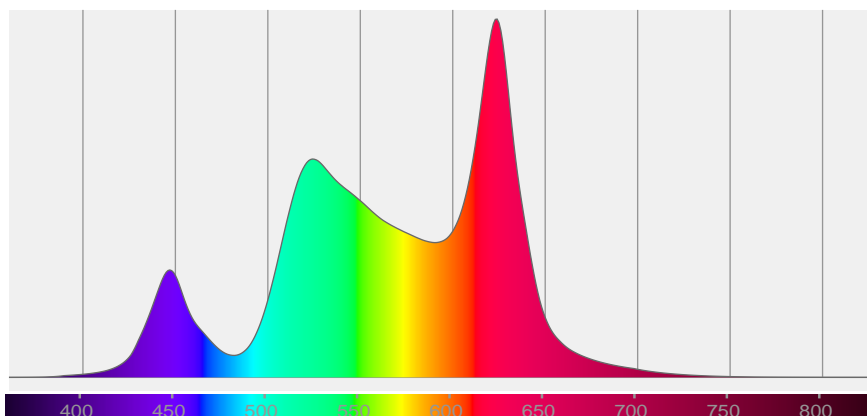


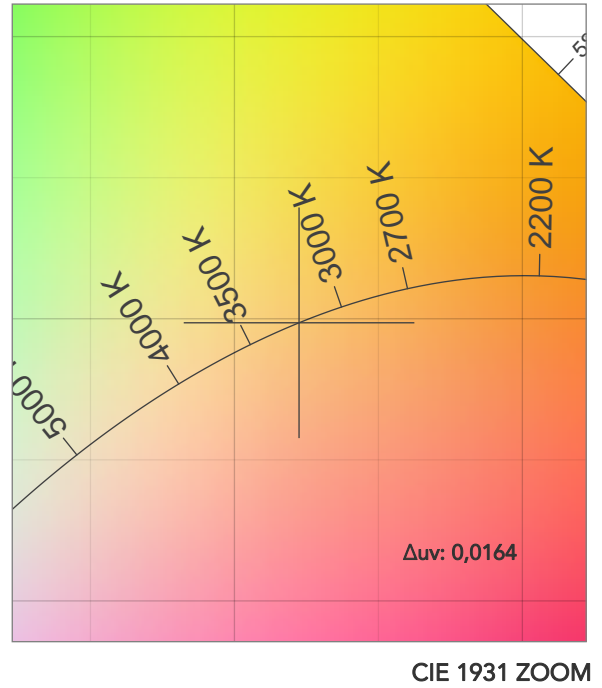
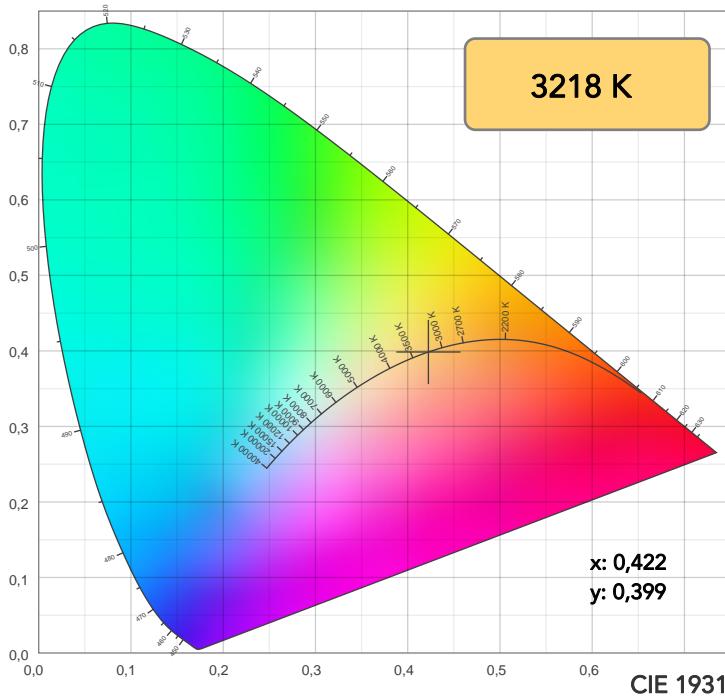
Beam angle 50%: 52,7°

Field angle 10%: 75,7°

Cut off angle 2.5%: 91,6°

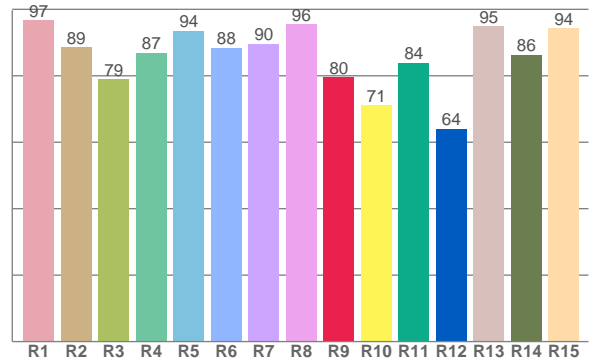
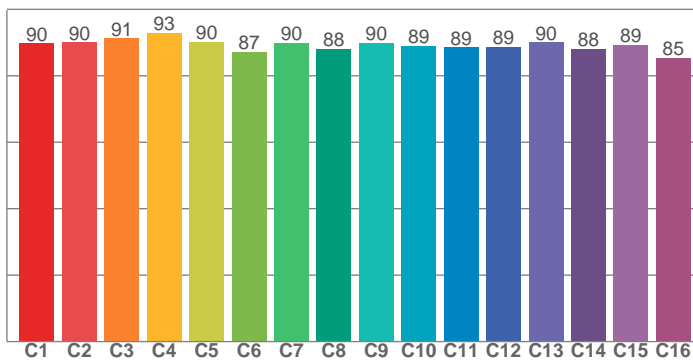
Spectra





TM30: 89,4

CRI: 89,8 (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
96,7	88,6	78,9	86,9	93,6	88,5	89,7	95,6	79,7	71,2	83,9	64,1	94,8	86,3	94,2

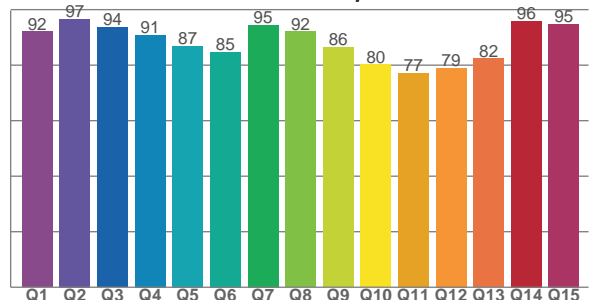
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,8	90,0	91,2	93,0	90,2	87,3	89,8	88,1	90,0	89,0	88,5	88,7	90,0	88,1	89,3	85,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,2	96,6	93,7	90,9	86,8	84,8	94,5	92,1	86,4	80,1	77,2	78,9	82,4	96,0	94,8

CQS: 86,9



COLOR PARAMETERS

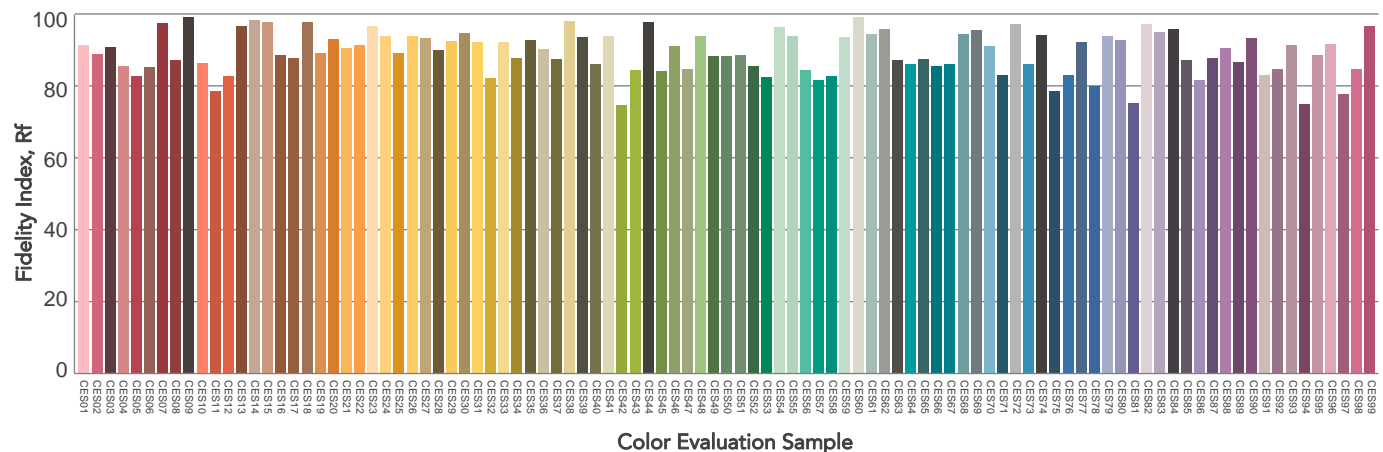
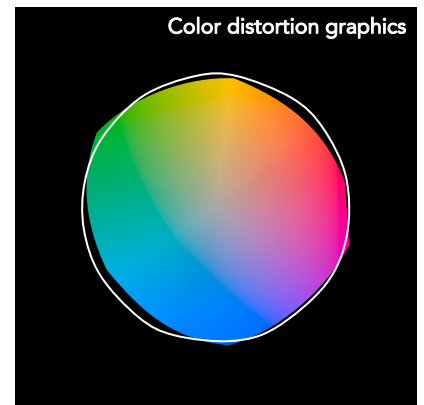
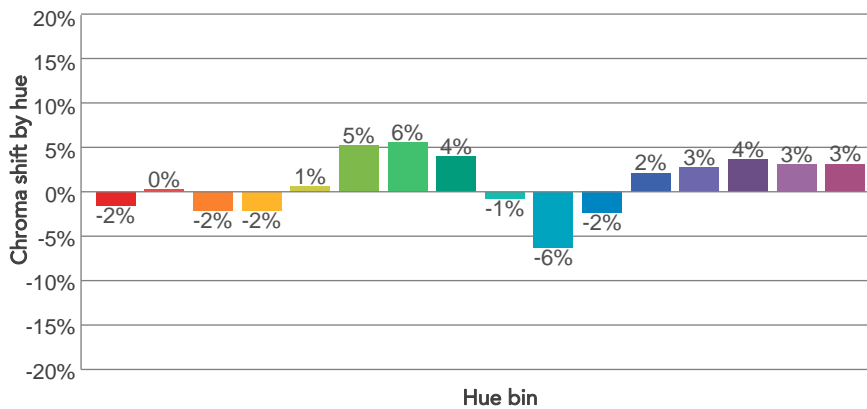
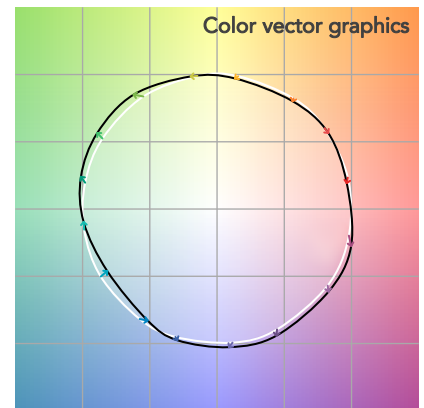
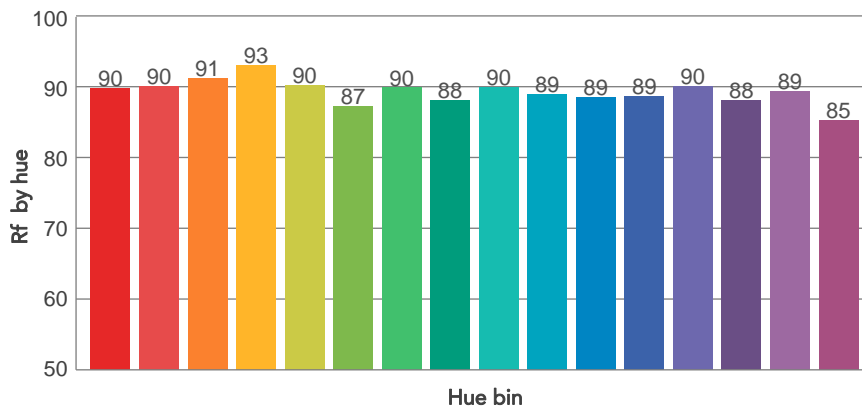
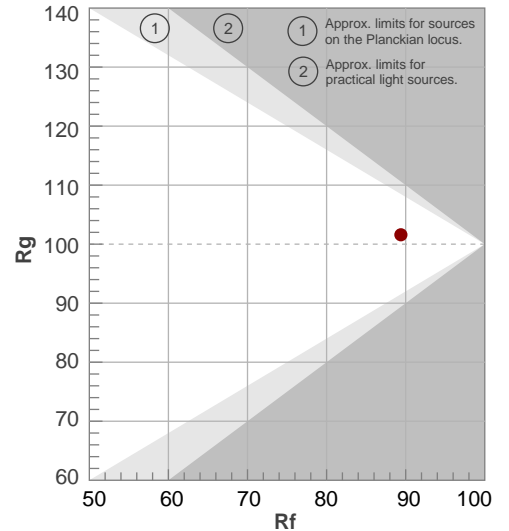
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3218 K	89,8	79,7	89,4	101,6	86,9	72	0,422	0,399	0,0164

TM30 DETAILS

Rf 89,4
Fidelity index Rf

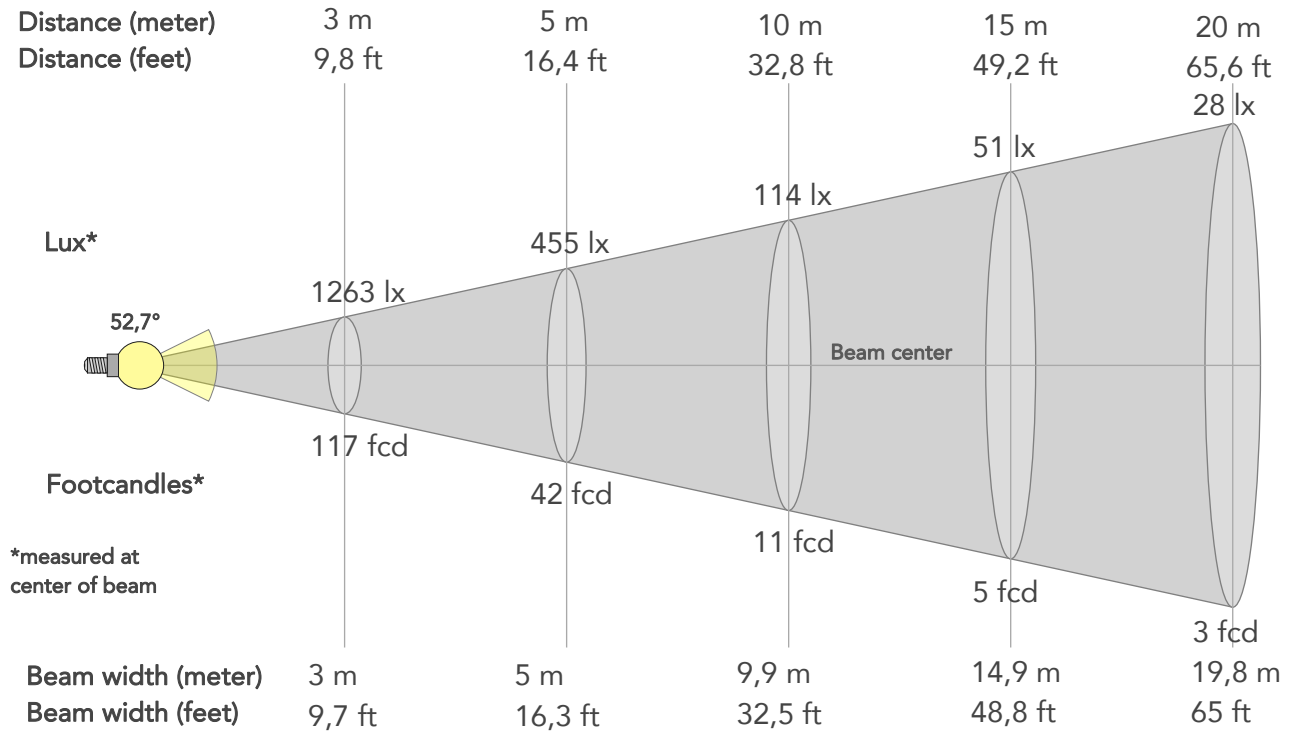
Rg 101,6
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	-2%	-4%
2	90	0%	-4%
3	91	-2%	-1%
4	93	-2%	2%
5	90	1%	5%
6	87	5%	5%
7	90	6%	-1%
8	88	4%	-4%
9	90	-1%	-6%
10	89	-6%	-1%
11	89	-2%	5%
12	89	2%	2%
13	90	3%	-3%
14	88	4%	-3%
15	89	3%	-3%
16	85	3%	-7%



BEAM DETAILS

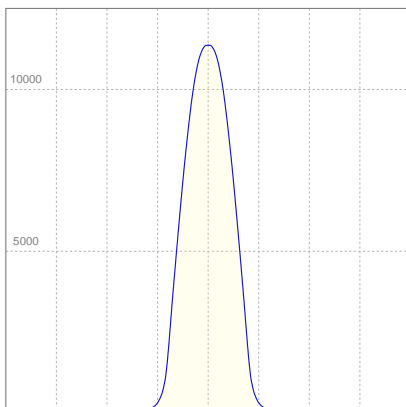
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,7°	75,7°	91,6°	95,8%	93,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	11367lx	2842lx	1263lx	710lx	455lx	202lx	114lx	51lx	28lx	18lx	13lx	7lx	5lx
Footcand.	1056fcd	264fcd	117fcd	66fcd	42fcd	19fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,4m	9,9m	14,9m	19,8m	24,8m	29,7m	39,7m	49,6m
Beam wid.	3,3ft	6,5ft	9,7ft	13ft	16,3ft	24,4ft	32,5ft	48,8ft	65ft	81,3ft	97,5ft	130,1ft	162,6ft

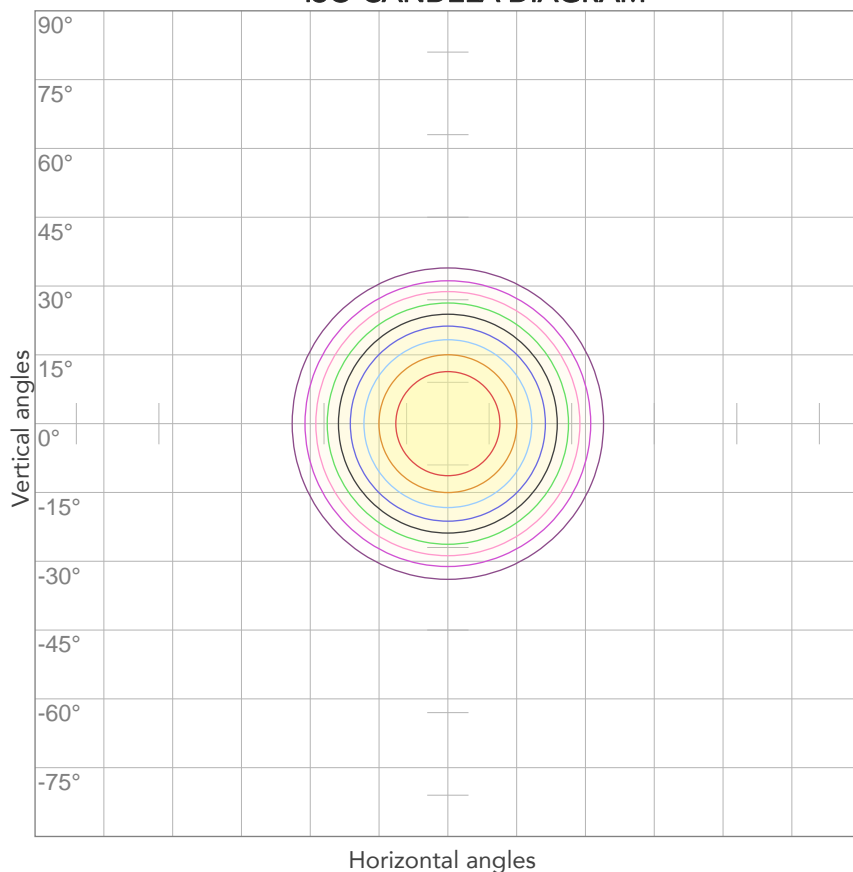
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	1,05A	211,1W	41lm/W

ISO CANDELA DIAGRAM



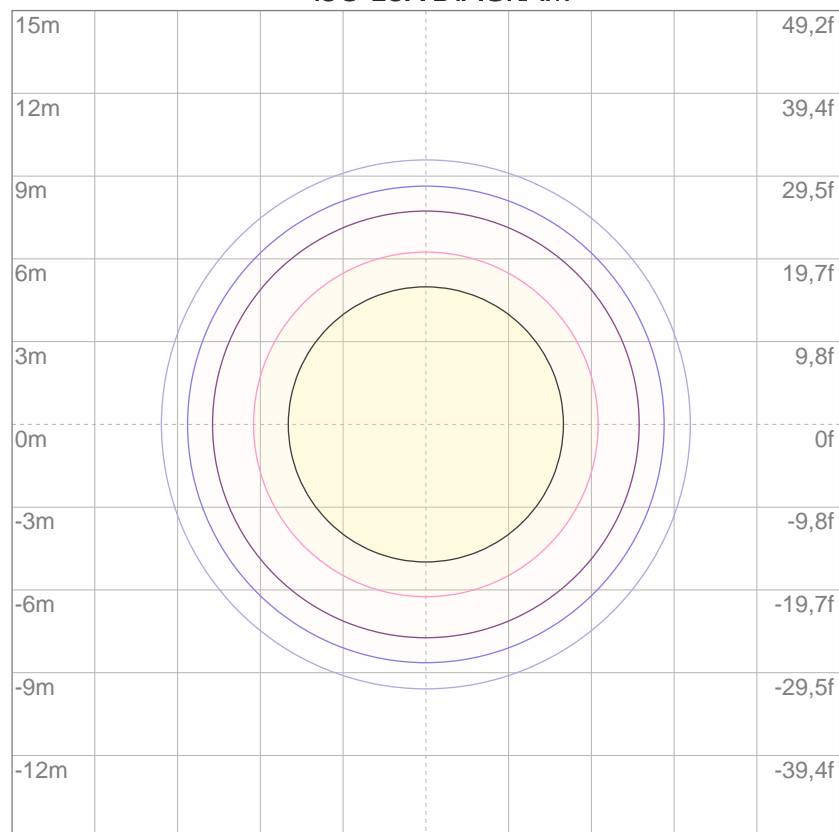
10%	1137 cd
20%	2273 cd
30%	3410 cd
40%	4547 cd
50%	5683 cd
60%	6820 cd
70%	7957 cd
80%	9093 cd

Conditions:

Number of c-planes: 2

Candela at center: 11367 cd

ISO LUX DIAGRAM



3%	3,41 lx
5%	5,68 lx
10%	11,4 lx
30%	34,1 lx
50%	56,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 114 lx

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



Total lumen output:

11835 lm

Peak candela output:

41516 cd

Light quality:

CRI: 89,6

Color temperature:

3218 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

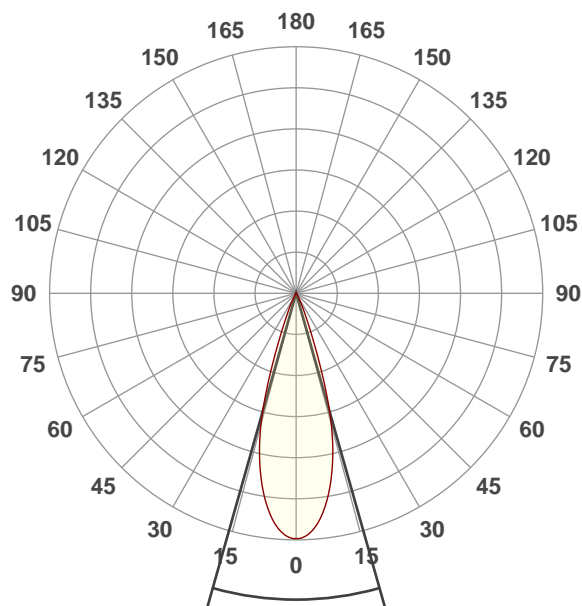
3200K

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:12:08

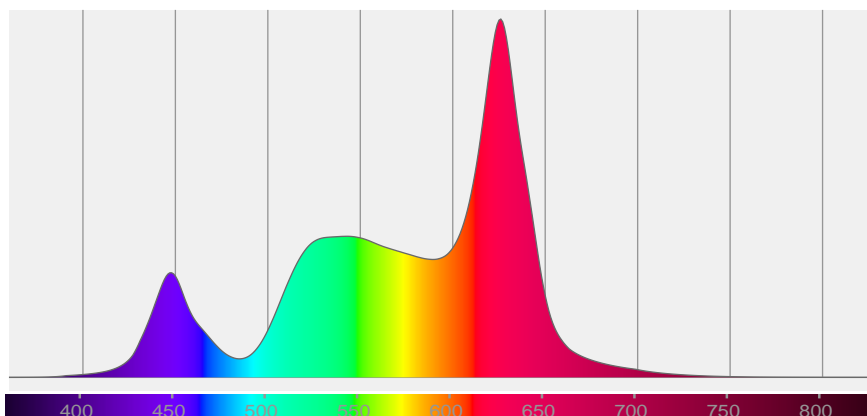


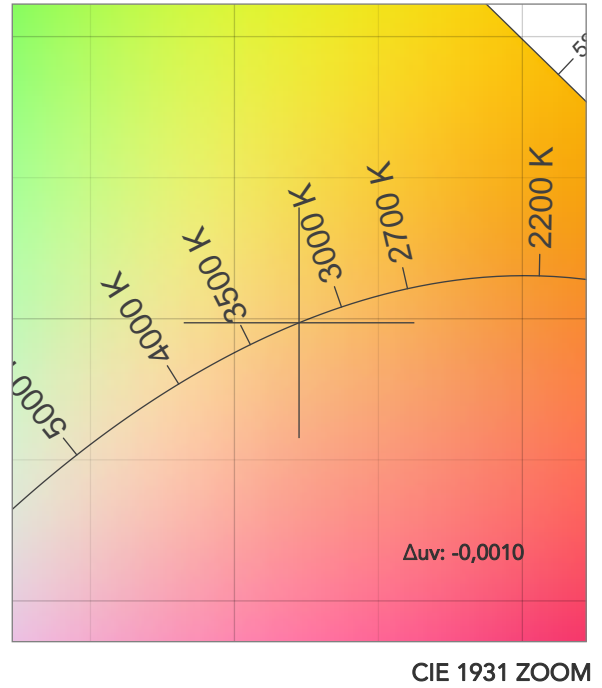
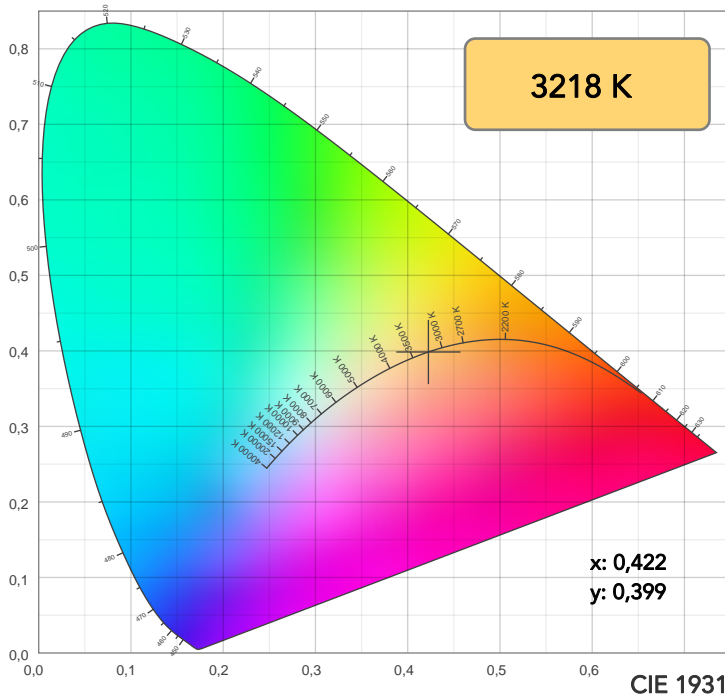
Beam angle 50%: 31,6°

Field angle 10%: 45,6°

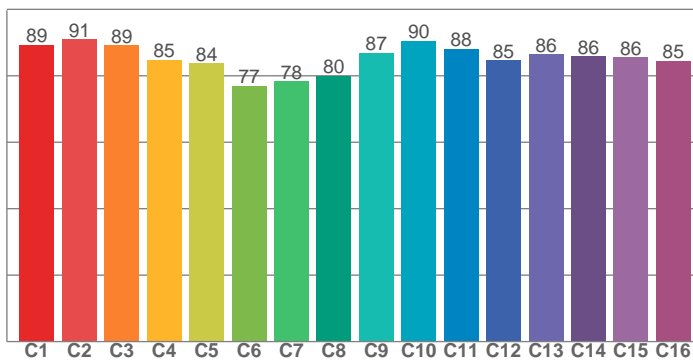
Cut off angle 2.5%: 57,3°

Spectra

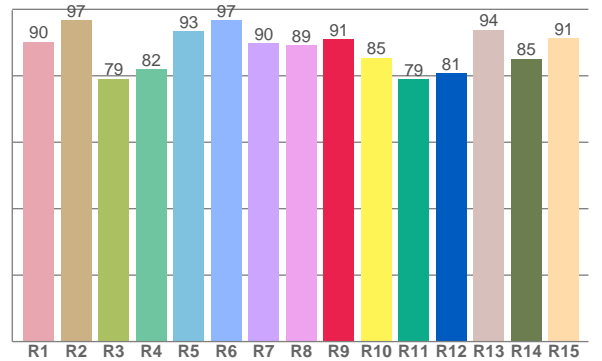




TM30: 86,0



CRI: 89,6 (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
90,2	96,7	79,1	82,0	93,3	96,6	89,8	89,2	91,1	85,4	78,9	80,8	93,8	85,1	91,3

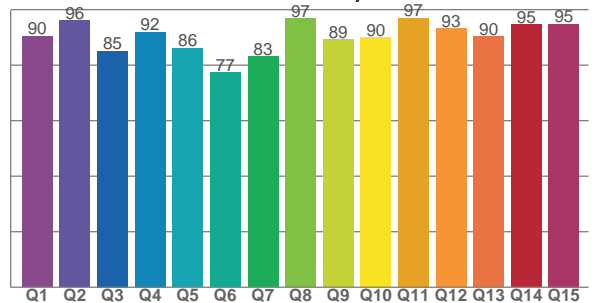
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,3	91,0	89,2	84,7	83,8	76,9	78,4	79,9	86,9	90,4	88,1	84,7	86,4	85,8	85,6	84,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,4	96,1	85,1	92,0	86,1	77,3	83,1	96,8	89,3	89,9	97,0	93,1	90,3	94,7	94,9

CQS: 88,7

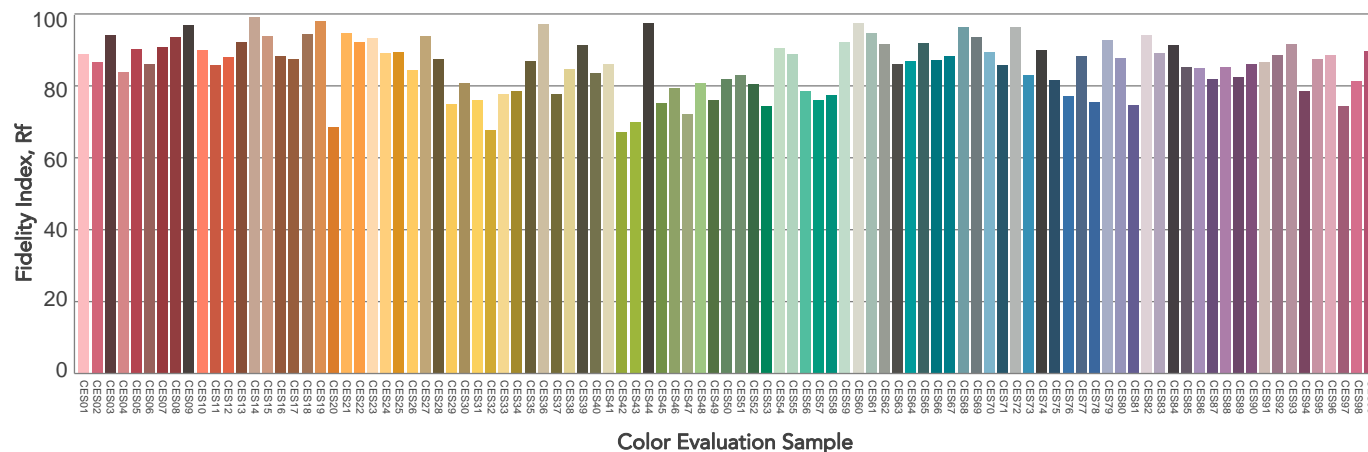


COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3218 K	89,6	91,1	86,0	109,6	88,7	77	0,422	0,399	-0,0010

Gammut index

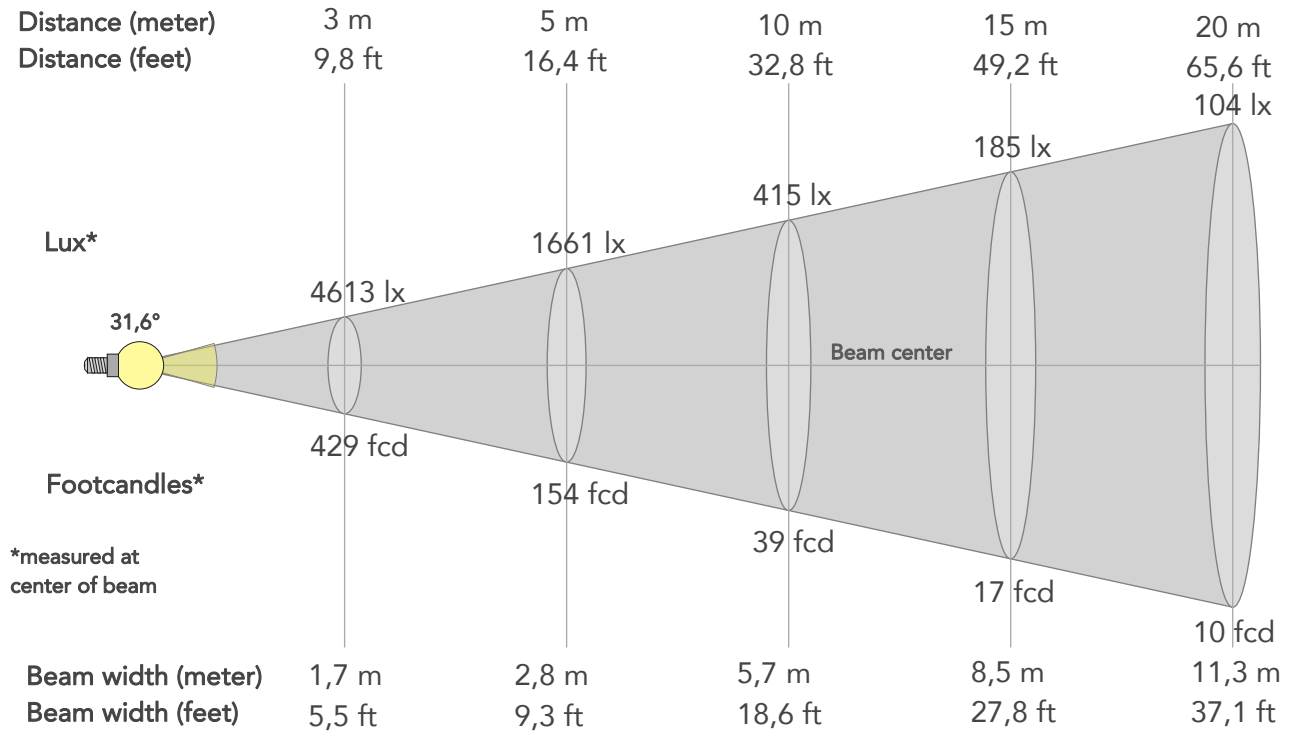
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	89	1%	-3%
2	91	1%	-1%
3	89	2%	4%
4	85	5%	7%
5	84	9%	9%
6	77	13%	4%
7	78	11%	-6%
8	80	8%	-9%
9	87	2%	-8%
10	90	-4%	-2%
11	88	-3%	7%
12	85	4%	4%
13	86	7%	-2%
14	86	7%	-1%
15	86	7%	-3%
16	85	6%	-9%



BEAM DETAILS



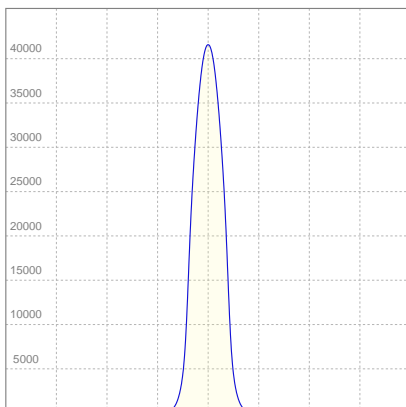
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,6°	45,6°	57,3°	94,8%	93,2%



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	41516lx	10379lx	4613lx	2595lx	1661lx	738lx	415lx	185lx	104lx	66lx	46lx	26lx	17lx
Footcand.	3857fcd	964fcd	429fcd	241fcd	154fcd	69fcd	39fcd	17fcd	10fcd	6fcd	4fcd	2fcd	2fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,2m	5,7m	8,5m	11,3m	14,1m	17m	22,6m	28,3m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,3ft	13,9ft	18,6ft	27,8ft	37,1ft	46,4ft	55,7ft	74,2ft	92,8ft

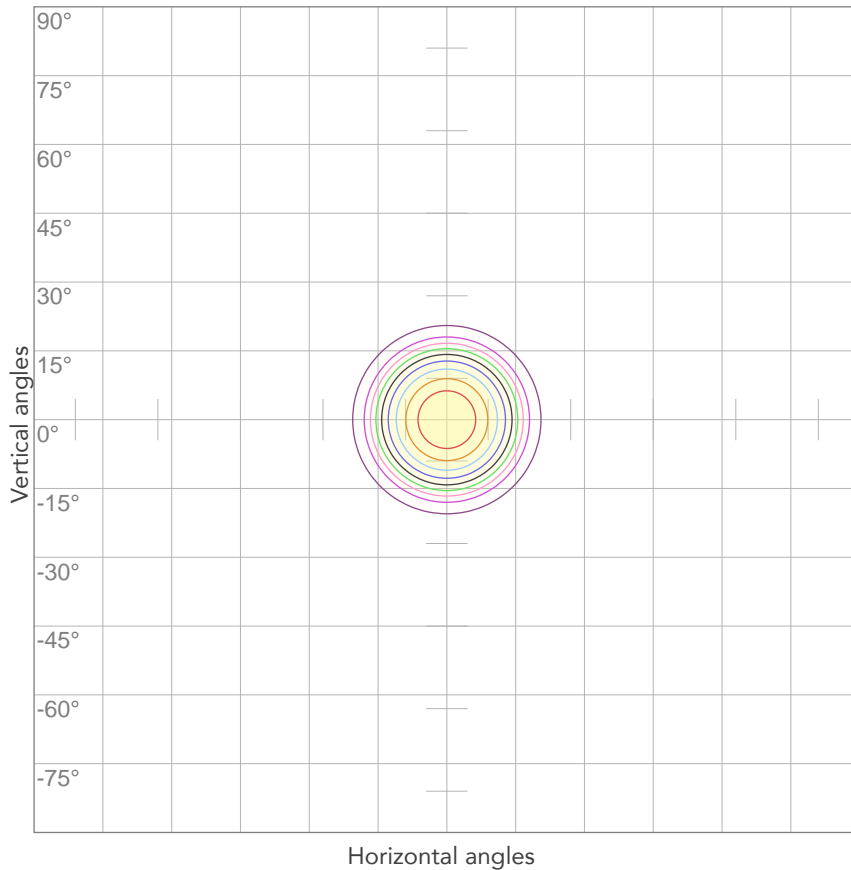
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	1,40A	292W	41lm/W

ISO CANDELA DIAGRAM



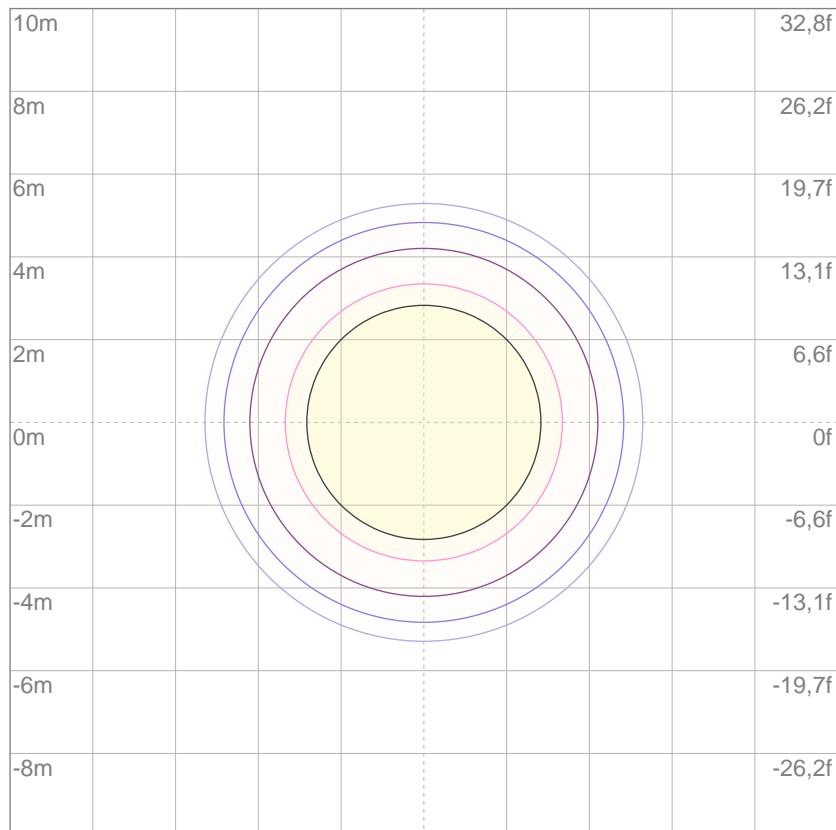
10%	4152 cd
20%	8303 cd
30%	12455 cd
40%	16607 cd
50%	20758 cd
60%	24910 cd
70%	29061 cd
80%	33213 cd

Conditions:

Number of c-planes: 2

Candela at center: 41516 cd

ISO LUX DIAGRAM



3%	12,5 lx
5%	20,8 lx
10%	41,5 lx
30%	125 lx
50%	208 lx

Conditions:

Number of c-planes: 2

Lux at center: 415 lx

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



Total lumen output:

8647 lm

Peak candela output:

84191 cd

Light quality:

CRI: 90,0

Color temperature:

3218 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

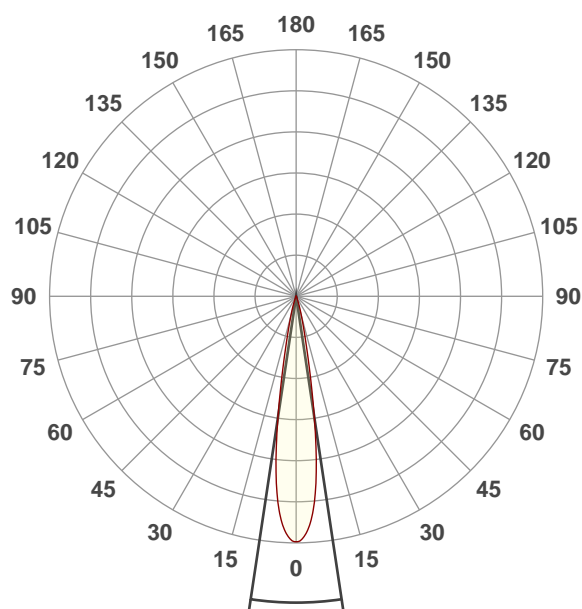
3200K

Operator:

Paolo Carvone

Date and time:

30/01/2020 11:02:44

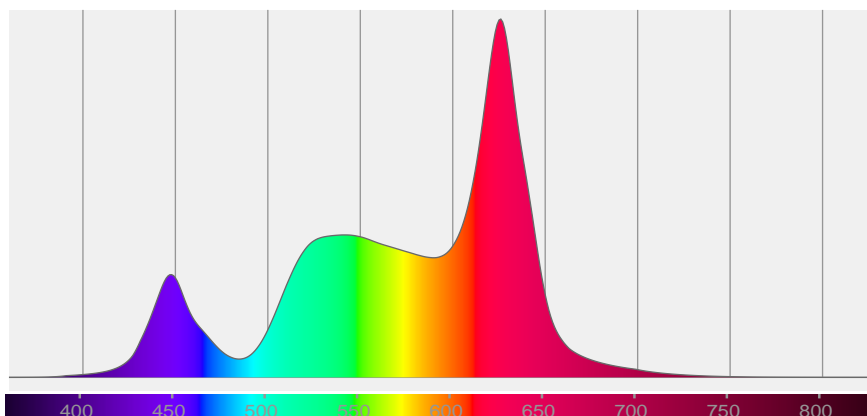


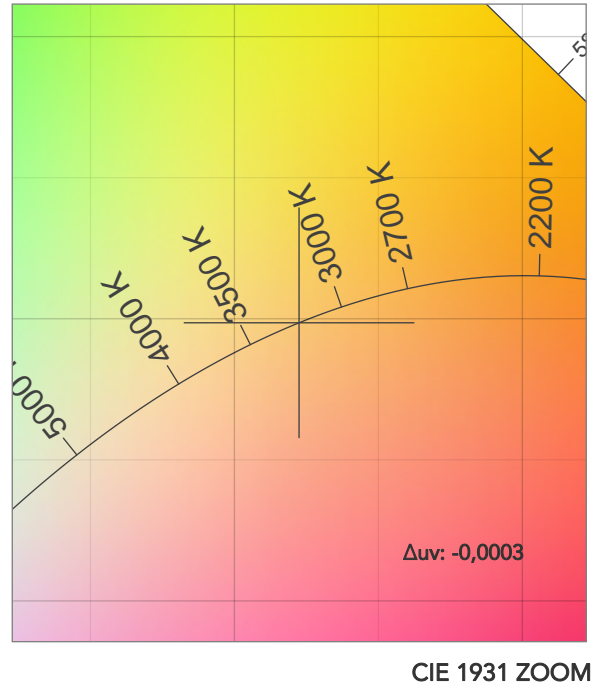
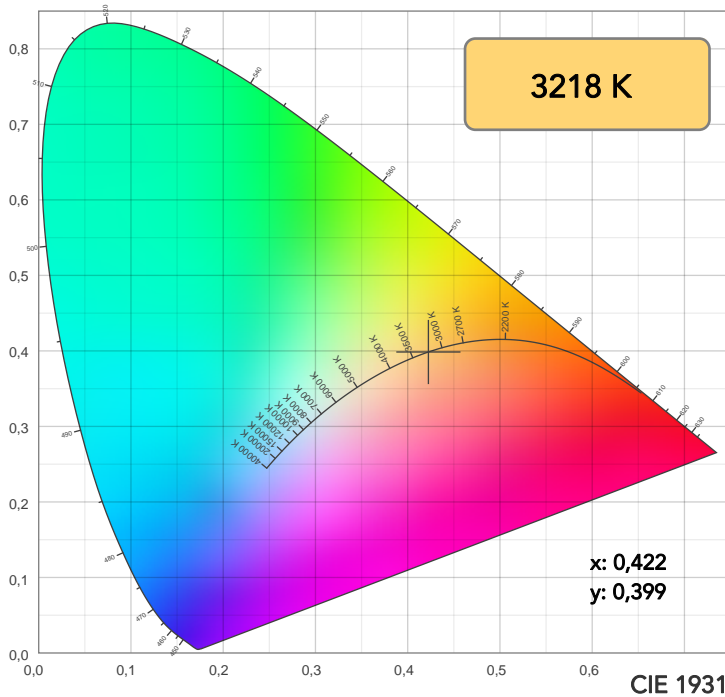
Beam angle 50%: 17,1°

Field angle 10%: 28,7°

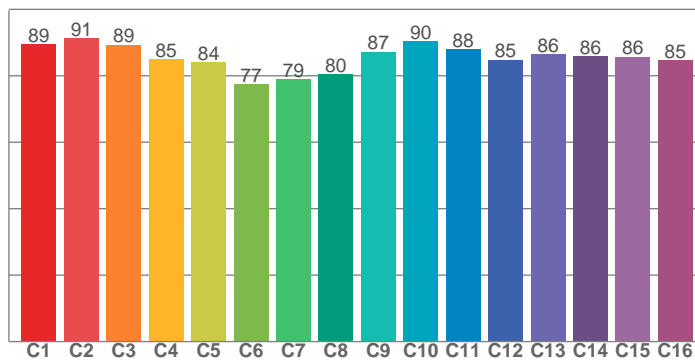
Cut off angle 2.5%: 39,1°

Spectra

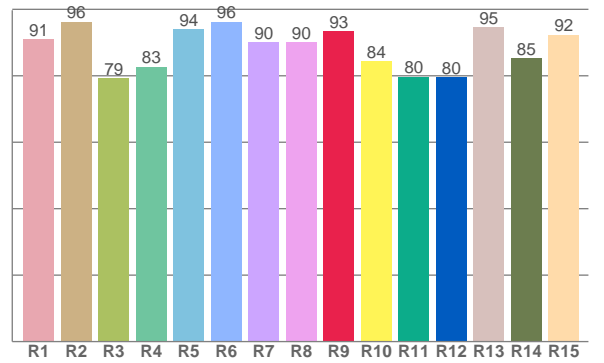




TM30: 86,1



CRI: 90,0 (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
91,1	96,2	79,2	82,7	94,0	96,3	90,0	90,1	93,4	84,4	79,7	79,6	94,6	85,2	92,4

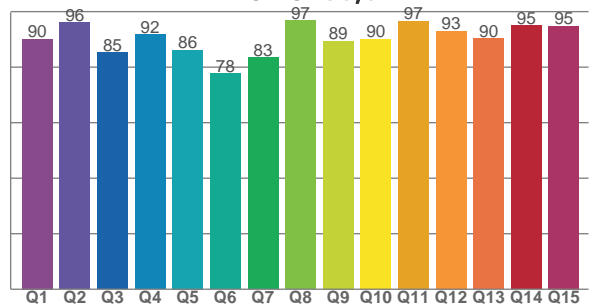
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,5	91,3	89,3	85,0	84,1	77,5	78,9	80,5	87,2	90,3	87,9	84,8	86,5	85,9	85,7	84,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,2	96,0	85,3	91,8	86,1	77,6	83,4	96,8	89,4	90,1	96,7	93,0	90,3	95,0	94,8

CQS: 88,8



COLOR PARAMETERS

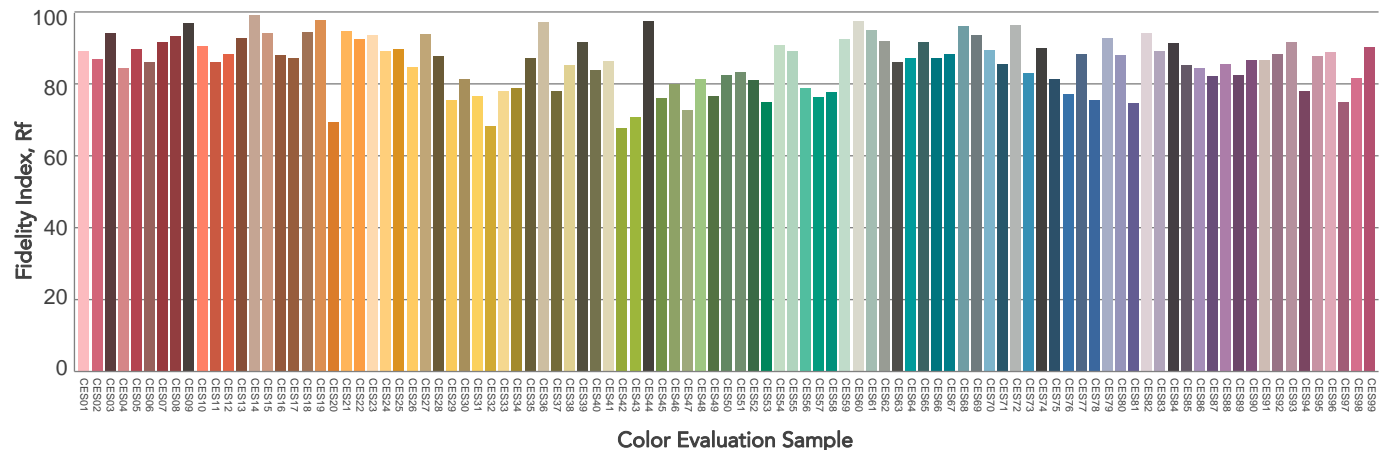
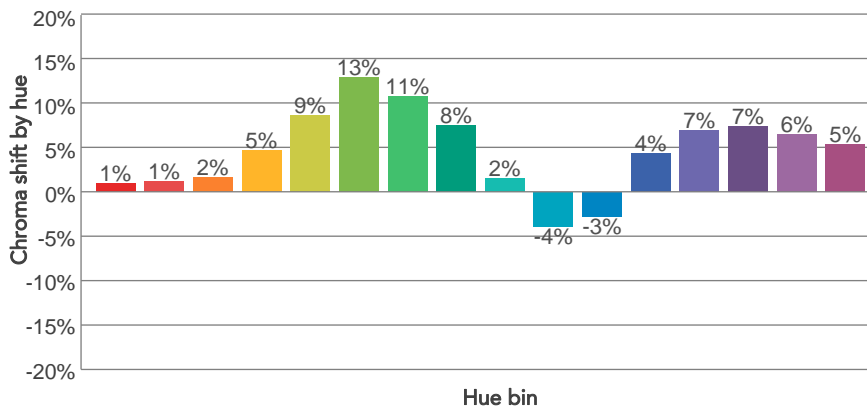
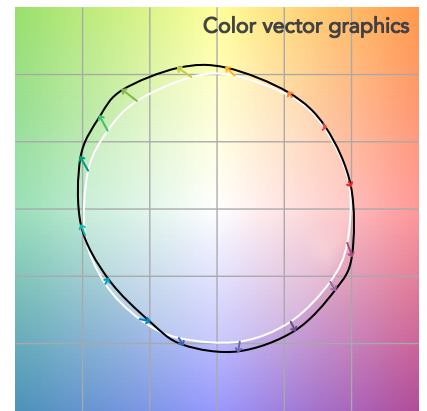
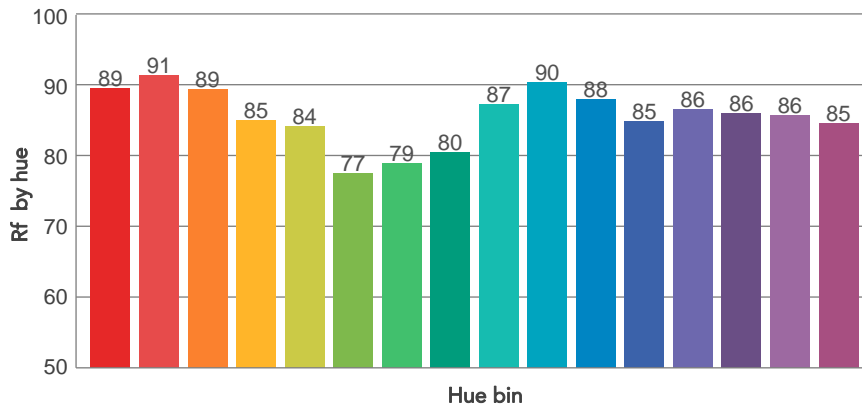
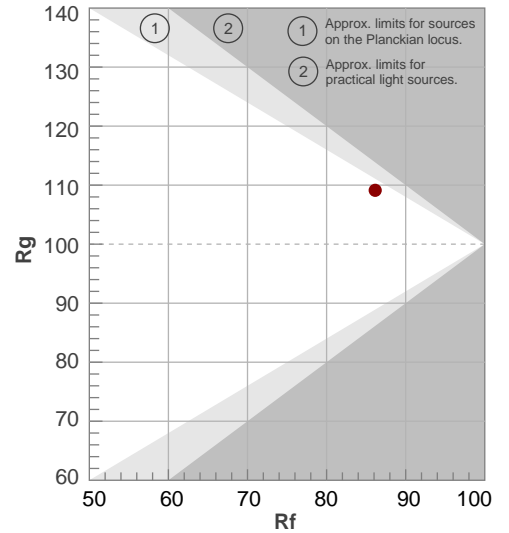
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3218 K	90,0	93,4	86,1	109,1	88,8	78	0,422	0,399	-0,0003

TM30 DETAILS

Rf 86,1
Fidelity index Rf

Rg 109,1
Gammut index

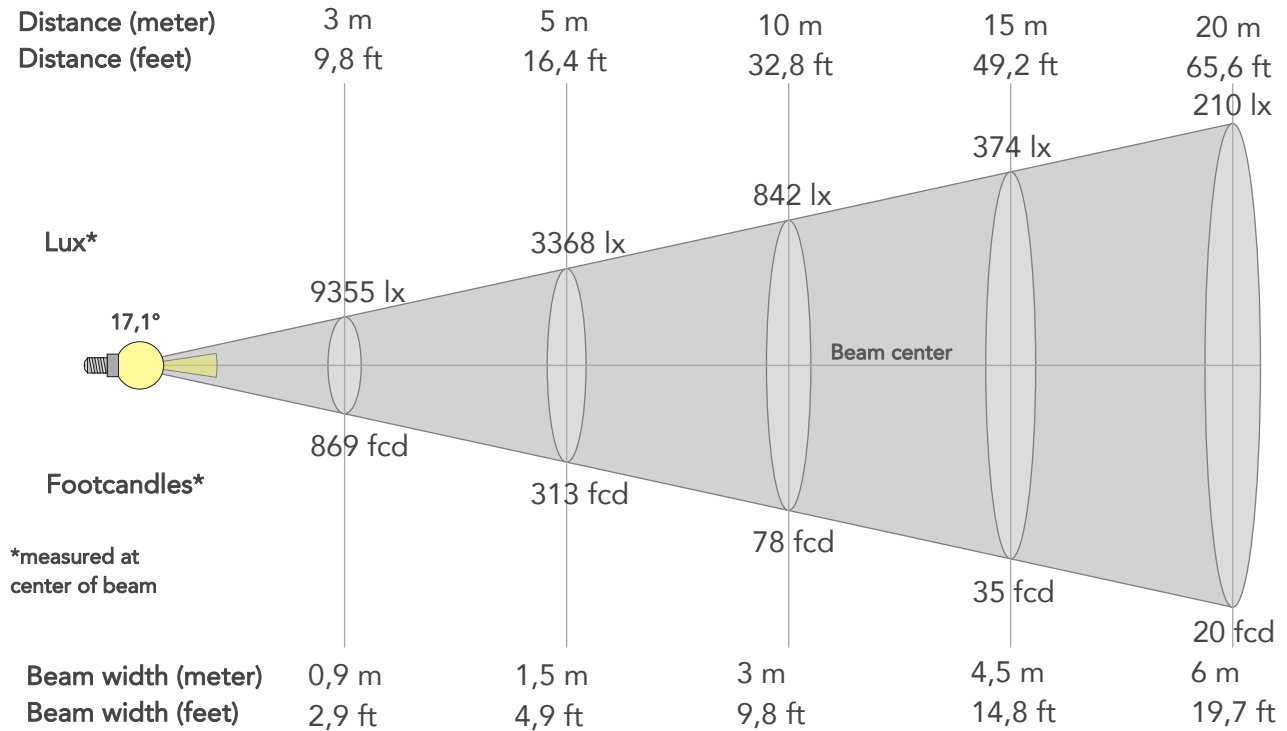
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	1%	-3%
2	91	1%	-1%
3	89	2%	4%
4	85	5%	7%
5	84	9%	8%
6	77	13%	4%
7	79	11%	-6%
8	80	8%	-9%
9	87	2%	-8%
10	90	-4%	-2%
11	88	-3%	7%
12	85	4%	4%
13	86	7%	-3%
14	86	7%	-1%
15	86	6%	-3%
16	85	5%	-9%



BEAM DETAILS



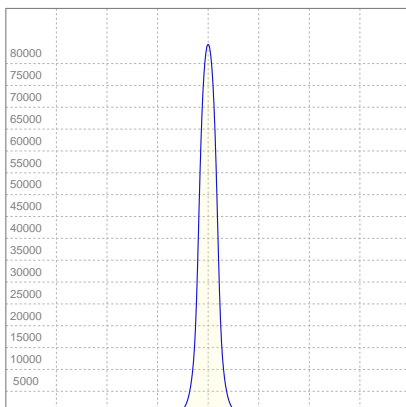
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,1°	28,7°	39,1°	96,2%	94,7%



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	84191lx	21048lx	9355lx	5262lx	3368lx	1497lx	842lx	374lx	210lx	135lx	94lx	53lx	34lx
Footcand.	7822fcd	1955fcd	869fcd	489fcd	313fcd	139fcd	78fcd	35fcd	20fcd	13fcd	9fcd	5fcd	3fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3m	4,5m	6m	7,5m	9m	12m	15m
Beam wid.	1ft	2ft	2,9ft	3,9ft	4,9ft	7,4ft	9,8ft	14,8ft	19,7ft	24,6ft	29,5ft	39,4ft	49,2ft

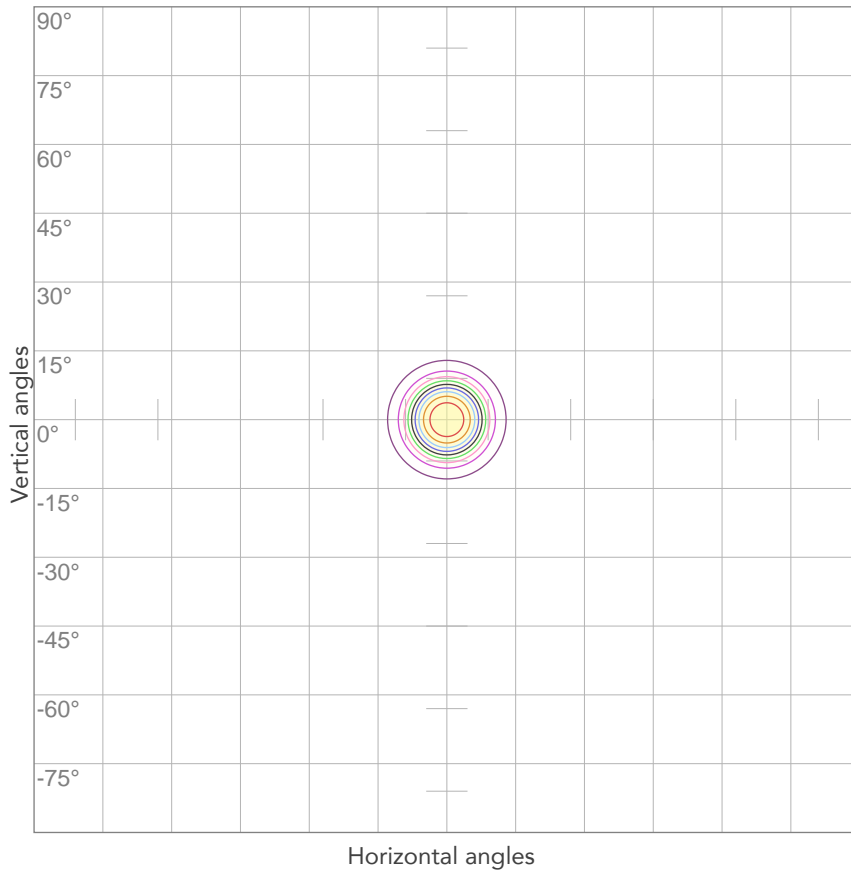
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
221V	1,40A	290,5W	30lm/W

ISO CANDELA DIAGRAM



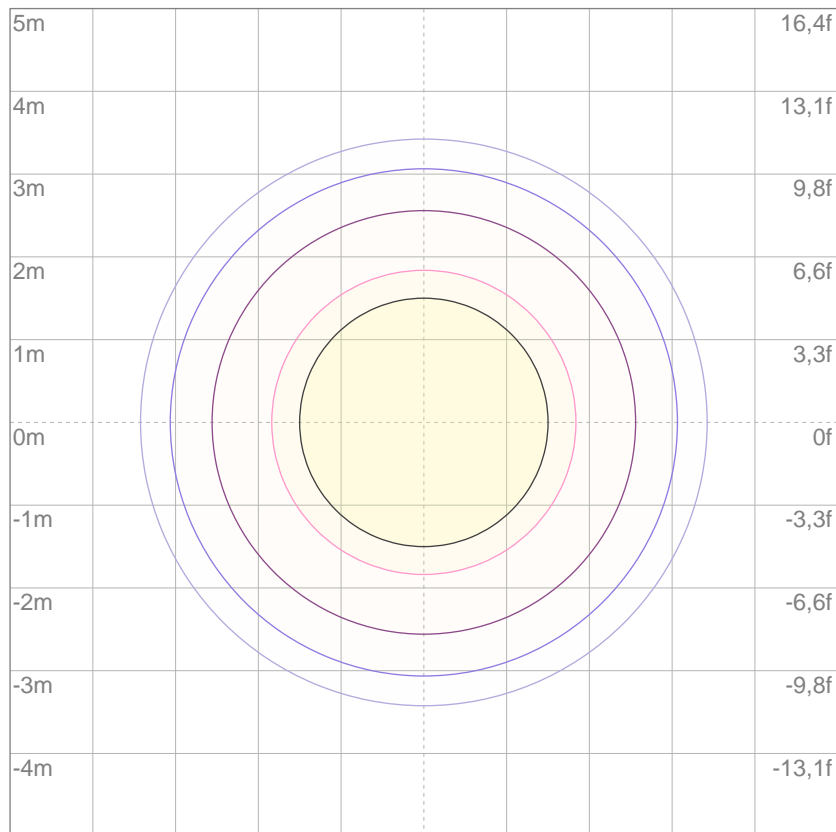
10%	8419 cd
20%	16838 cd
30%	25257 cd
40%	33676 cd
50%	42096 cd
60%	50515 cd
70%	58934 cd
80%	67353 cd

Conditions:

Number of c-planes: 2

Candela at center: 84191 cd

ISO LUX DIAGRAM



3%	25,3 lx
5%	42,1 lx
10%	84,2 lx
30%	253 lx
50%	421 lx

Conditions:

Number of c-planes: 2

Lux at center: 842 lx

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



Total lumen output:

9288 lm

Peak candela output:

12311 cd

Light quality:

CRI: 89,7

Color temperature:

4012 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

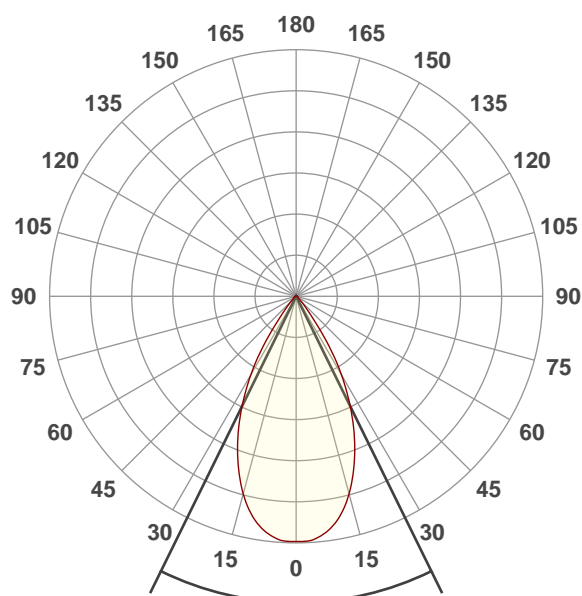
4000K

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:52:01

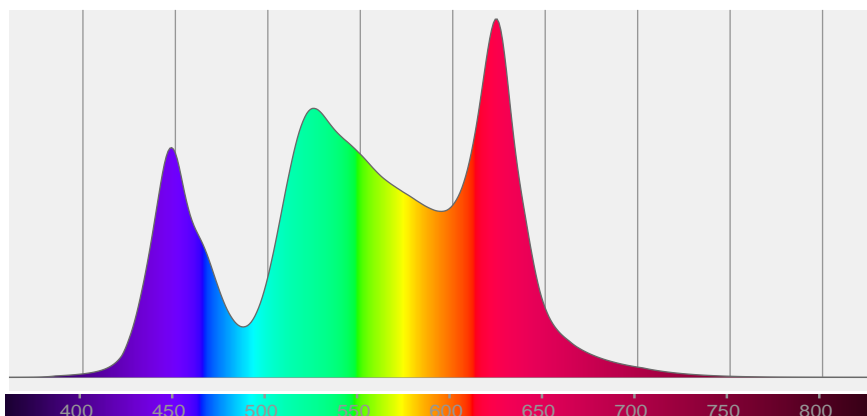


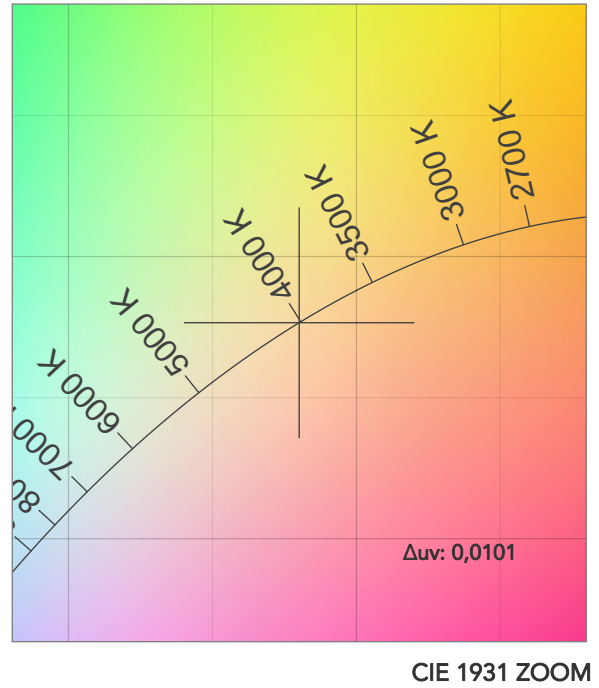
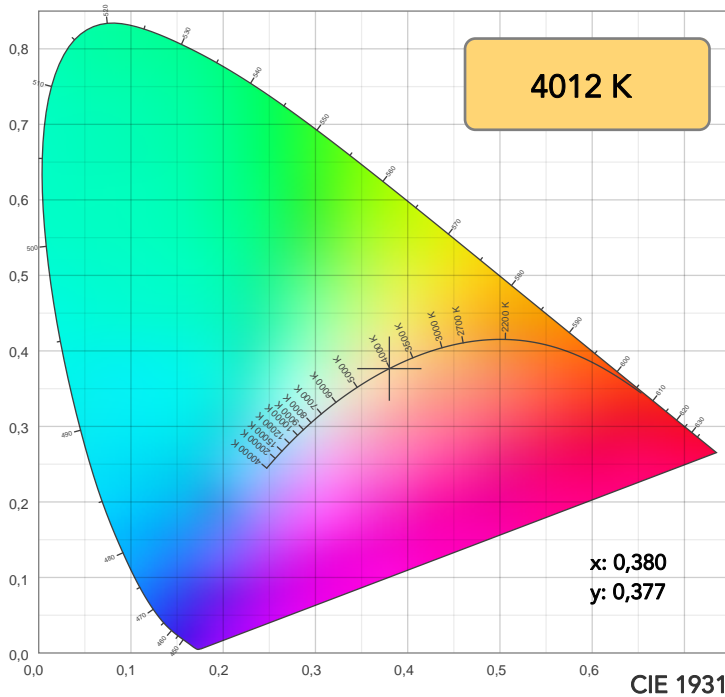
Beam angle 50%: 52,4°

Field angle 10%: 76°

Cut off angle 2.5%: 92,1°

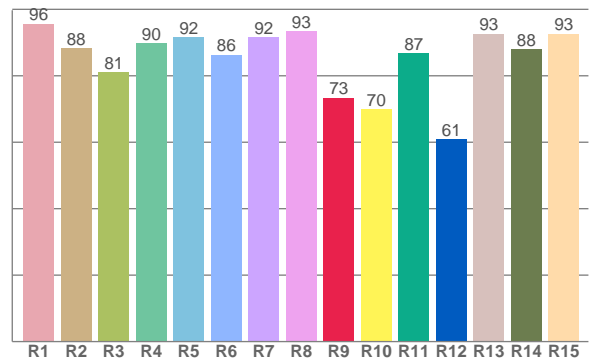
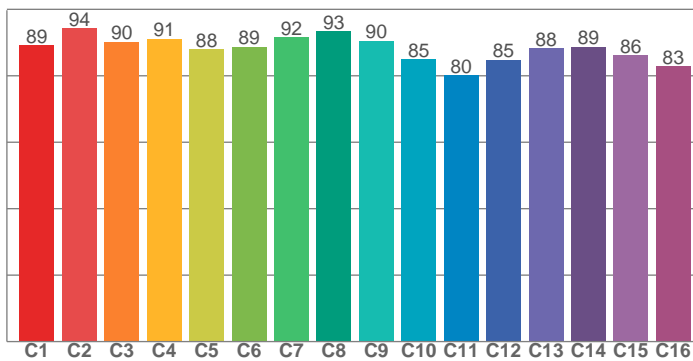
Spectra





TM30: 88,2

CRI: 89,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,6	88,3	81,0	89,8	91,6	86,3	91,5	93,5	73,4	69,9	86,7	60,9	92,6	87,9	92,7

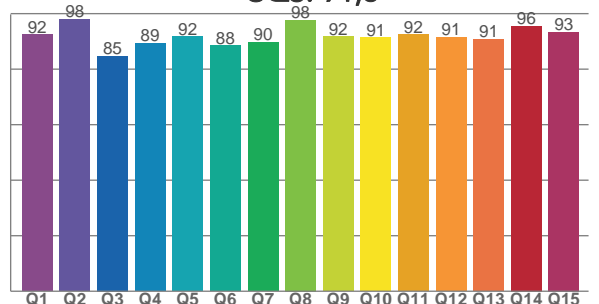
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,2	94,3	90,2	91,1	87,9	88,7	91,5	93,4	90,5	84,9	80,1	84,7	88,2	88,7	86,2	82,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,4	98,0	84,7	89,3	91,8	88,5	89,7	97,7	91,7	91,3	92,4	91,5	90,7	95,6	93,3

CQS: 91,3



COLOR PARAMETERS

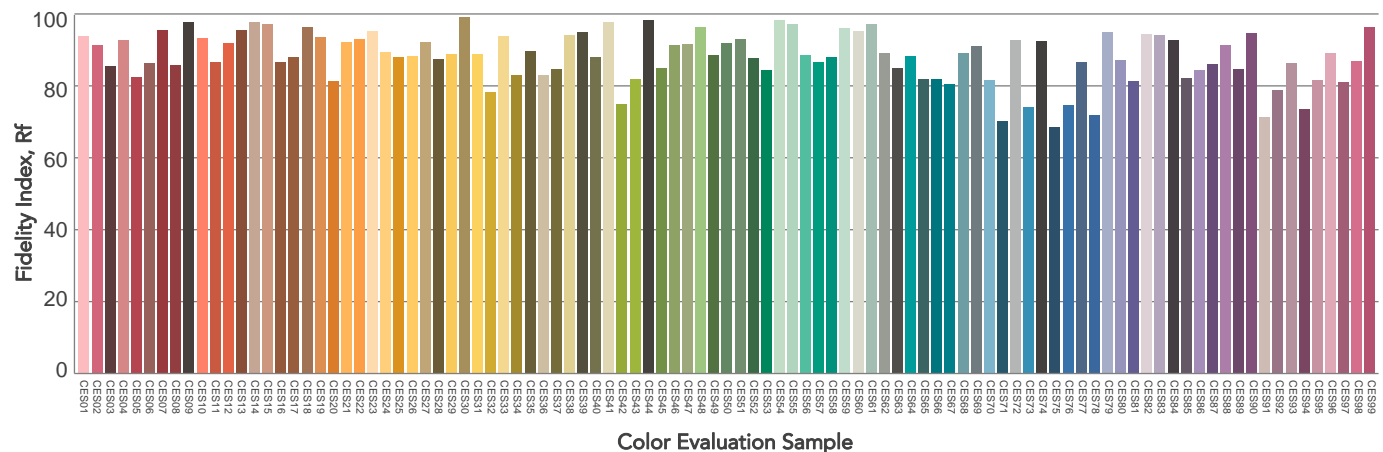
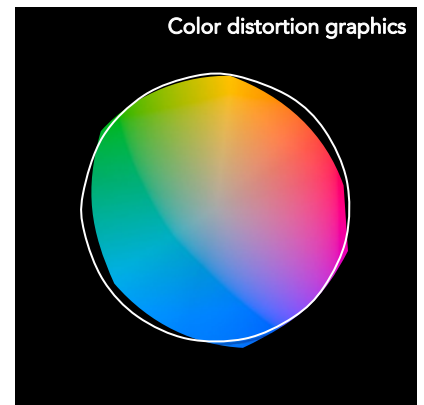
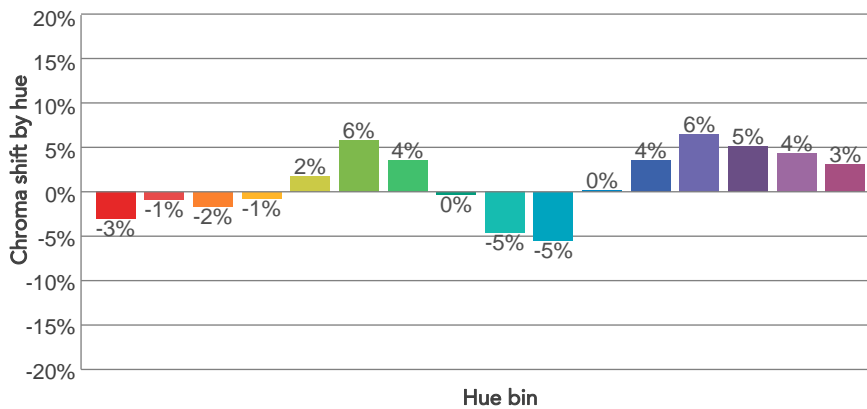
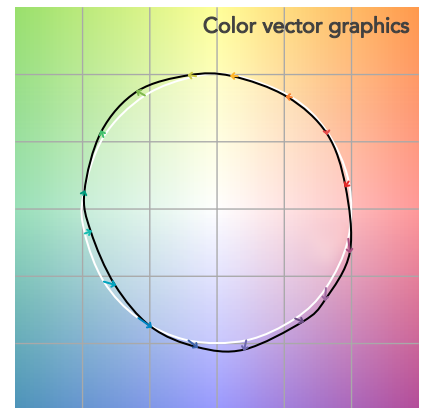
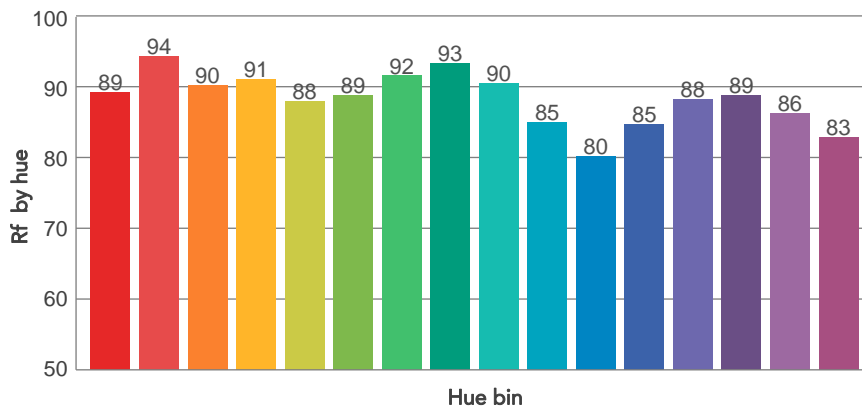
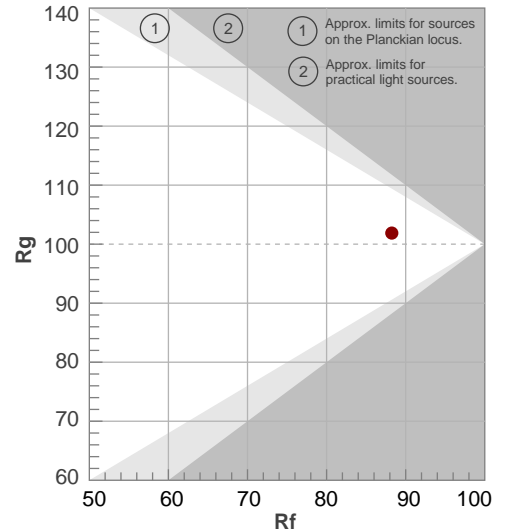
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4012 K	89,7	73,4	88,2	101,9	91,3	79	0,380	0,377	0,0101

TM30 DETAILS

Rf 88,2
Fidelity index Rf

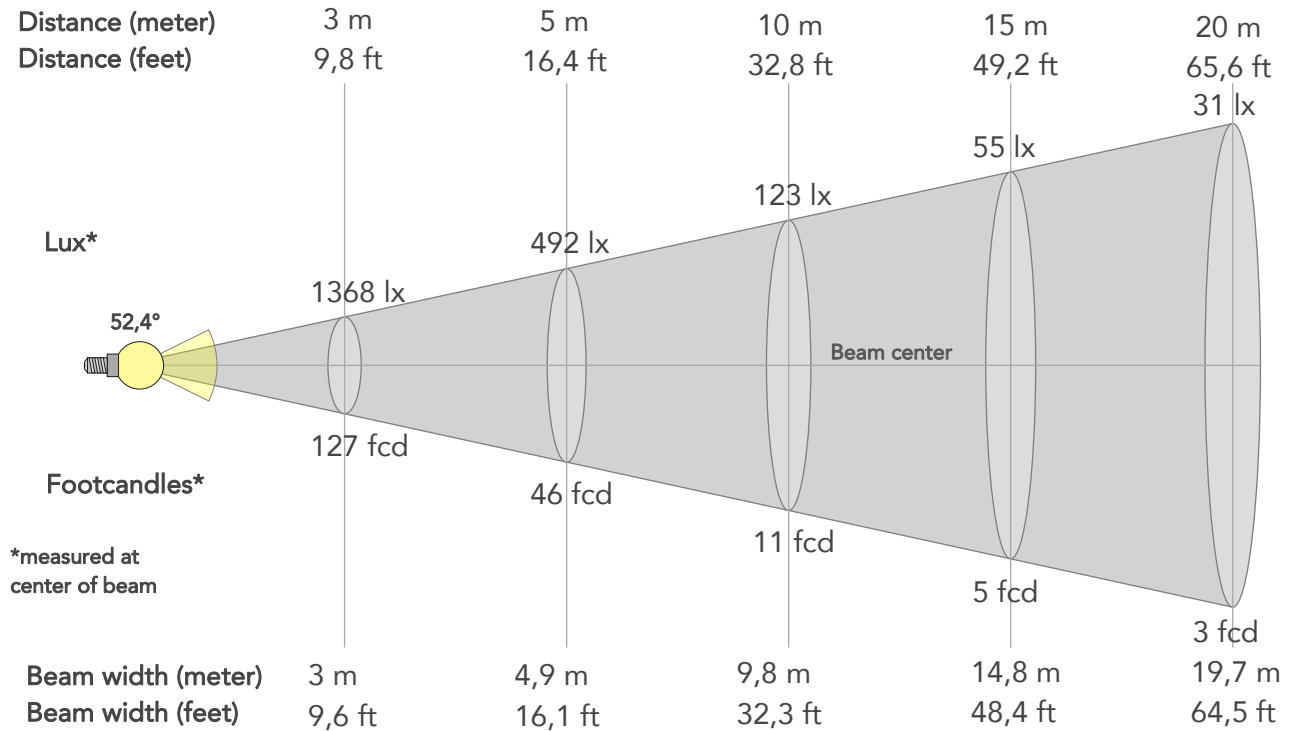
Rg 101,9
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	-3%	-3%
2	94	-1%	-2%
3	90	-2%	3%
4	91	-1%	5%
5	88	2%	5%
6	89	6%	3%
7	92	4%	-2%
8	93	0%	-3%
9	90	-5%	-1%
10	85	-5%	6%
11	80	0%	11%
12	85	4%	7%
13	88	6%	-3%
14	89	5%	3%
15	86	4%	-8%
16	83	3%	-9%



BEAM DETAILS

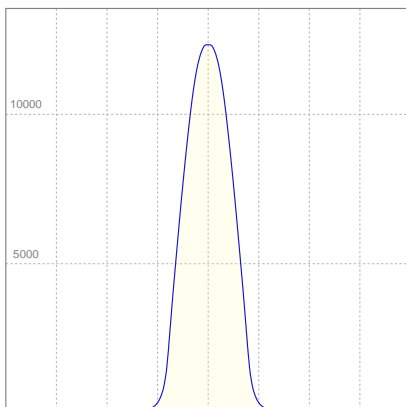
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,4°	76°	92,1°	95,7%	93,2%



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	12311lx	3078lx	1368lx	769lx	492lx	219lx	123lx	55lx	31lx	20lx	14lx	8lx	5lx
Footcand.	1144fcd	286fcd	127fcd	71fcd	46fcd	20fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	1m	2m	3m	3,9m	4,9m	7,4m	9,8m	14,8m	19,7m	24,6m	29,5m	39,4m	49,2m
Beam wid.	3,2ft	6,5ft	9,6ft	12,9ft	16,1ft	24,2ft	32,3ft	48,4ft	64,5ft	80,7ft	96,8ft	129,1ft	161,4ft

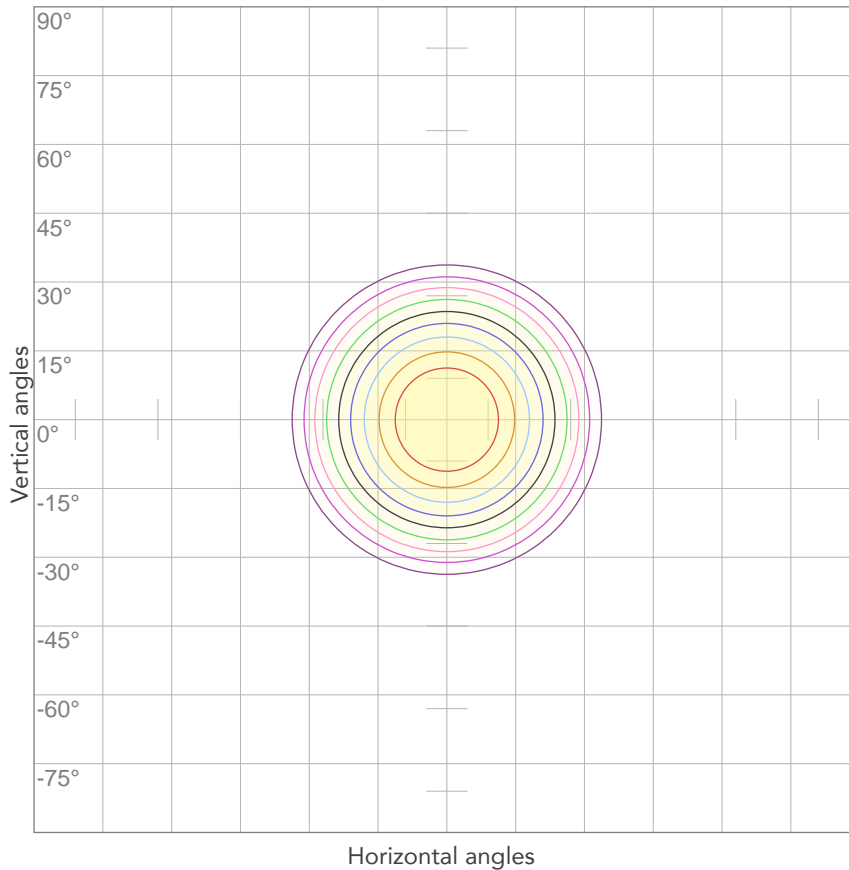
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	1,16A	235,5W	39lm/W

ISO CANDELA DIAGRAM



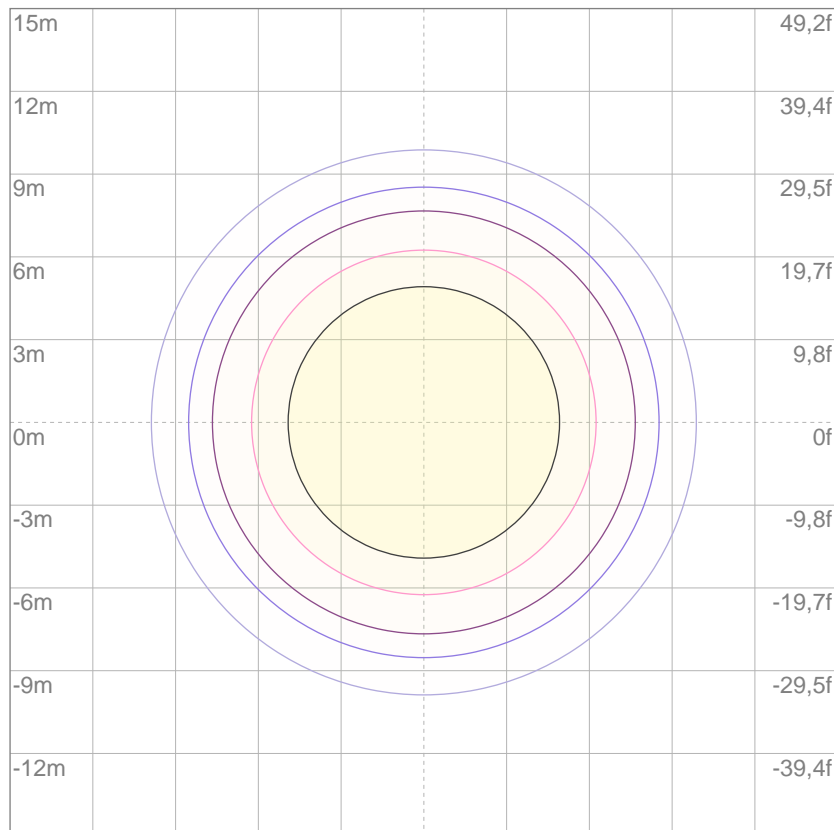
10%	1231 cd
20%	2462 cd
30%	3693 cd
40%	4924 cd
50%	6156 cd
60%	7387 cd
70%	8618 cd
80%	9849 cd

Conditions:

Number of c-planes: 2

Candela at center: 12311 cd

ISO LUX DIAGRAM



3%	3,69 lx
5%	6,16 lx
10%	12,3 lx
30%	36,9 lx
50%	61,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 123 lx

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



Total lumen output:

12848 lm

Peak candela output:

44896 cd

Light quality:

CRI: 90,5

Color temperature:

4012 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

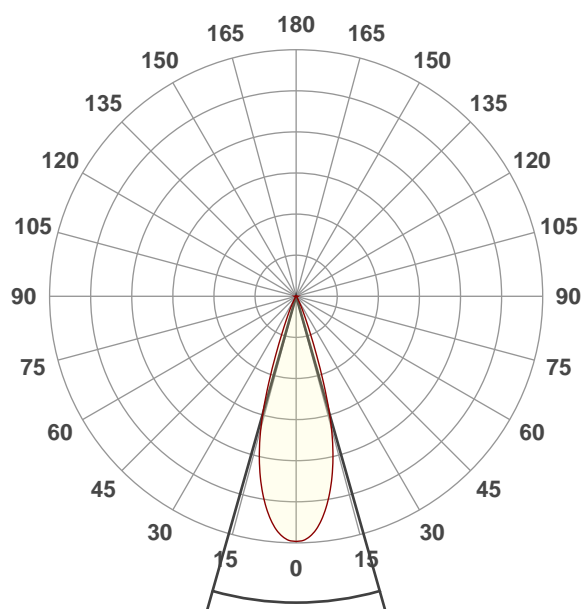
4000K

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:13:54

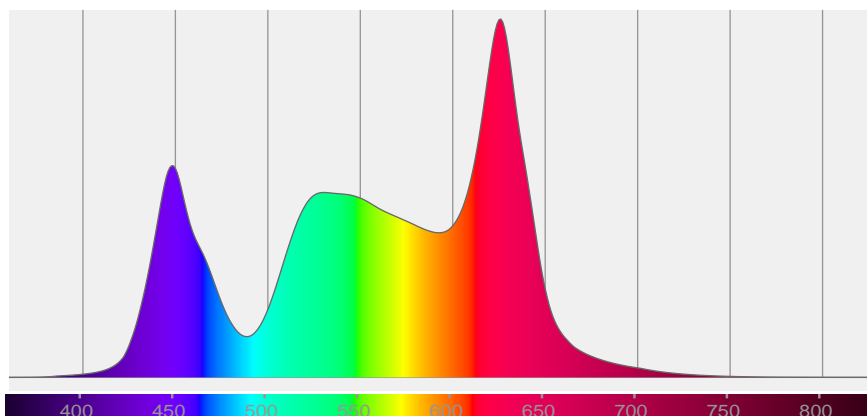


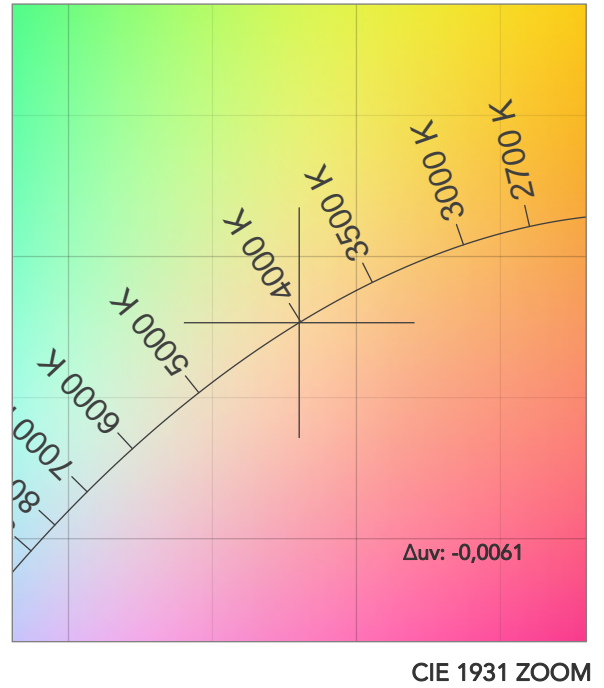
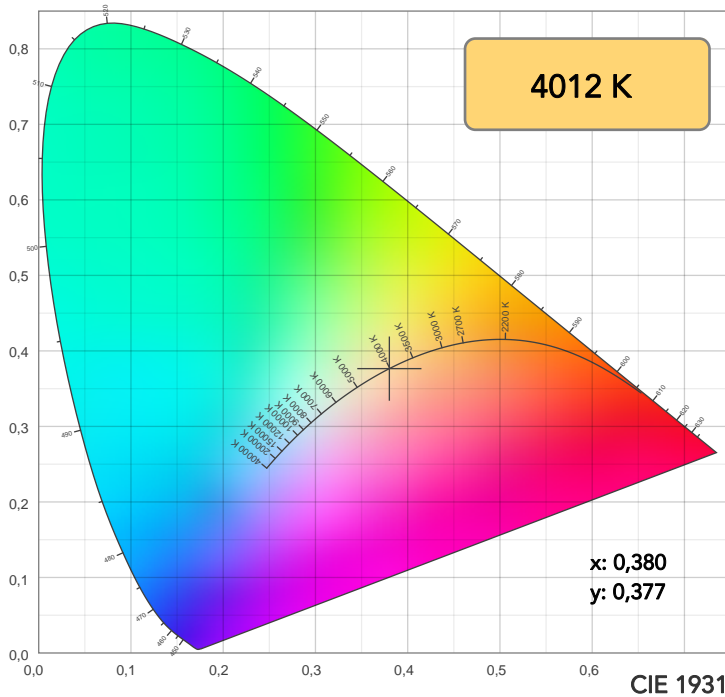
Beam angle 50%: 31,7°

Field angle 10%: 45,7°

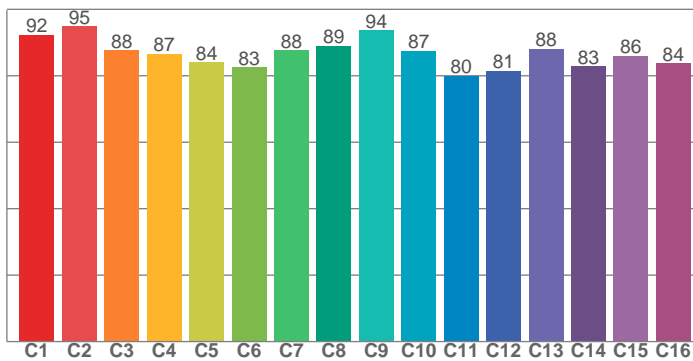
Cut off angle 2.5%: 57,2°

Spectra

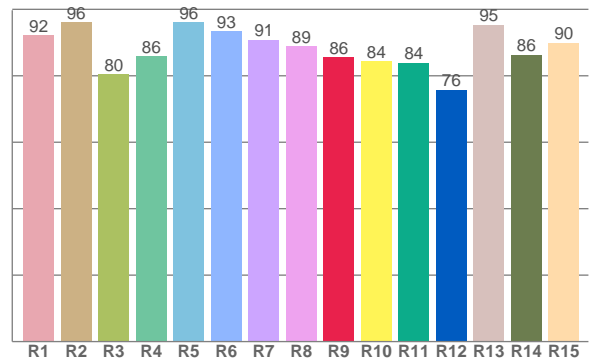




TM30: 86,9



CRI: 90,5 (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
92,2	96,0	80,4	85,8	96,1	93,5	90,8	88,9	85,5	84,3	83,9	75,8	95,4	86,3	90,0

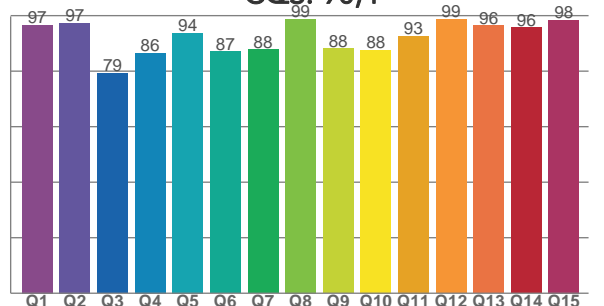
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,3	94,9	87,7	86,6	84,0	82,6	87,6	88,9	93,6	87,5	80,0	81,4	88,1	82,8	85,9	83,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,7	97,3	79,2	86,5	93,7	87,0	87,8	98,7	88,1	87,6	92,6	98,7	96,5	95,7	98,5

CQS: 90,4



COLOR PARAMETERS

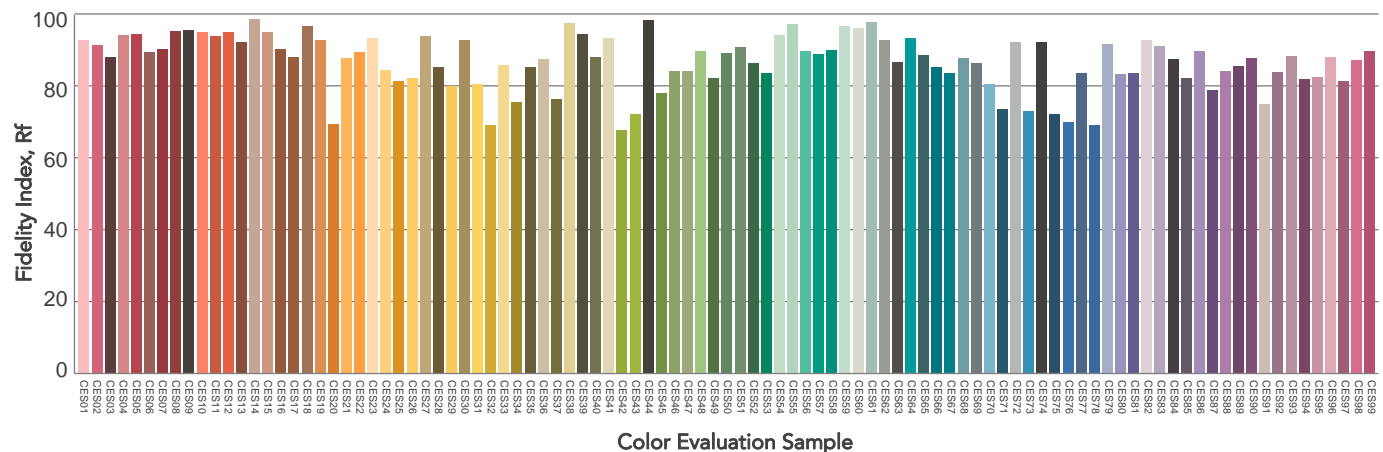
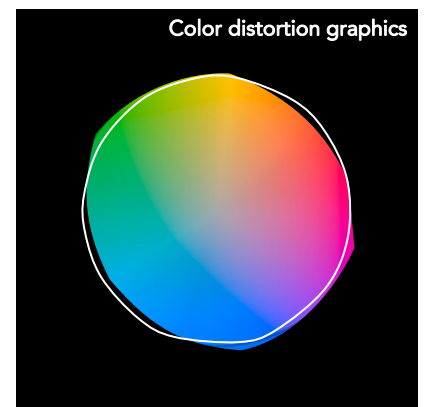
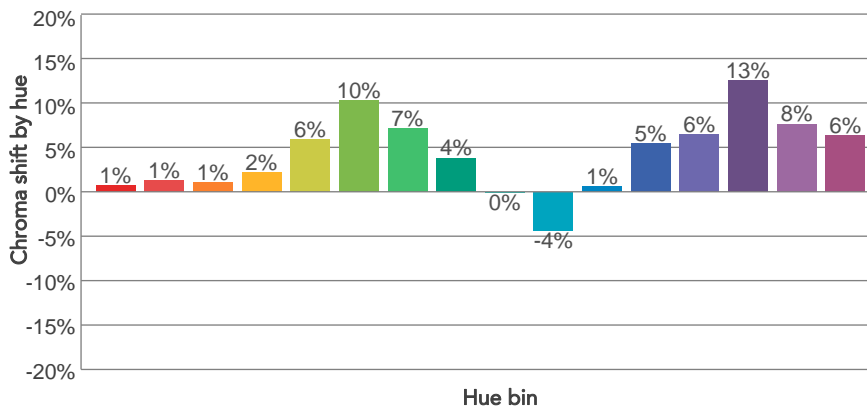
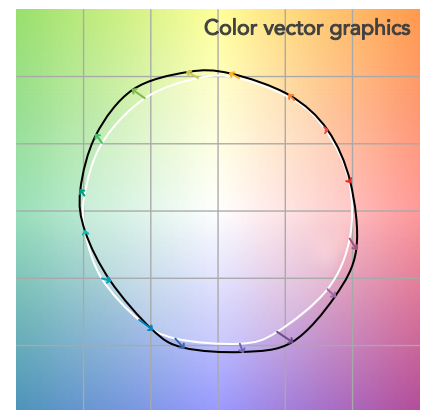
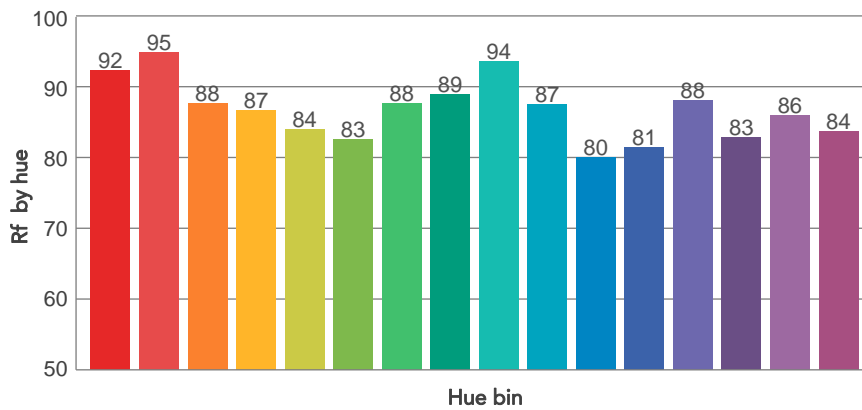
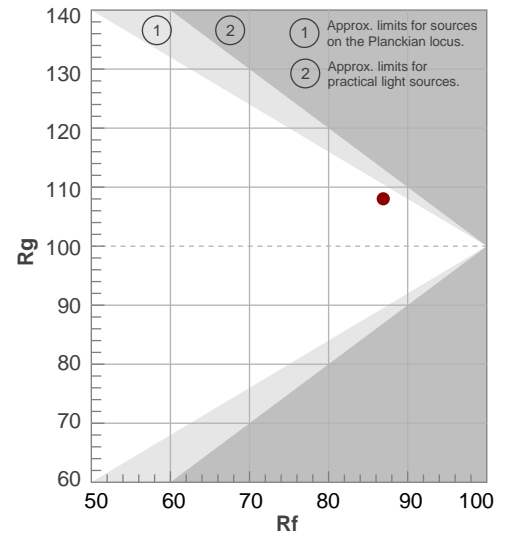
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4012 K	90,5	85,5	86,9	108,0	90,4	83	0,380	0,377	-0,0061

TM30 DETAILS

Rf 86,9
Fidelity index Rf

Rg 108,0
Gammut index

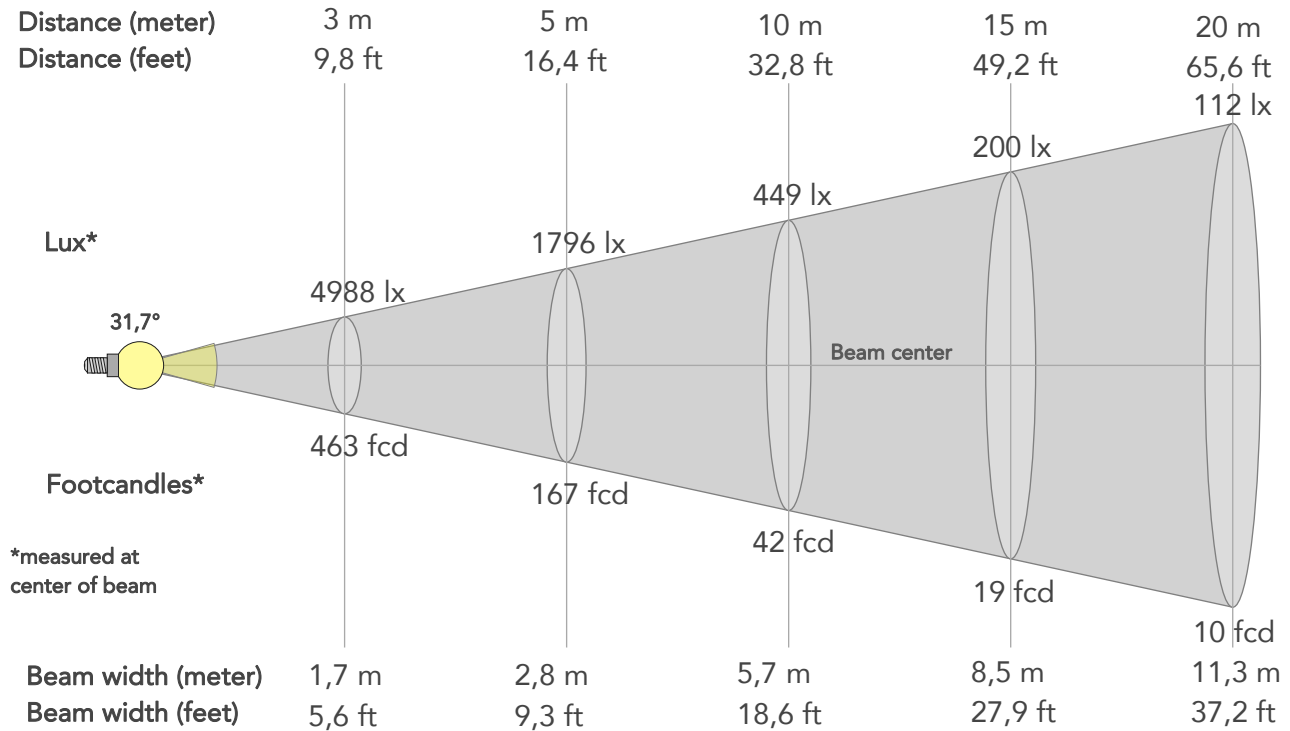
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	1%	-2%
2	95	1%	-1%
3	88	1%	5%
4	87	2%	7%
5	84	6%	7%
6	83	10%	4%
7	88	7%	-3%
8	89	4%	-3%
9	94	0%	-2%
10	87	-4%	5%
11	80	1%	12%
12	81	5%	7%
13	88	6%	1%
14	83	13%	5%
15	86	8%	-1%
16	84	6%	-7%



BEAM DETAILS



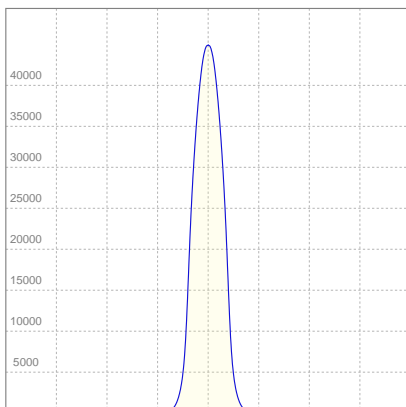
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,7°	45,7°	57,2°	94,7%	93,2%



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	44896lx	11224lx	4988lx	2806lx	1796lx	798lx	449lx	200lx	112lx	72lx	50lx	28lx	18lx
Footcand.	4171fcd	1043fcd	463fcd	261fcd	167fcd	74fcd	42fcd	19fcd	10fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,3m	5,7m	8,5m	11,3m	14,2m	17m	22,7m	28,4m
Beam wid.	1,9ft	3,7ft	5,6ft	7,4ft	9,3ft	14ft	18,6ft	27,9ft	37,2ft	46,5ft	55,8ft	74,4ft	93ft

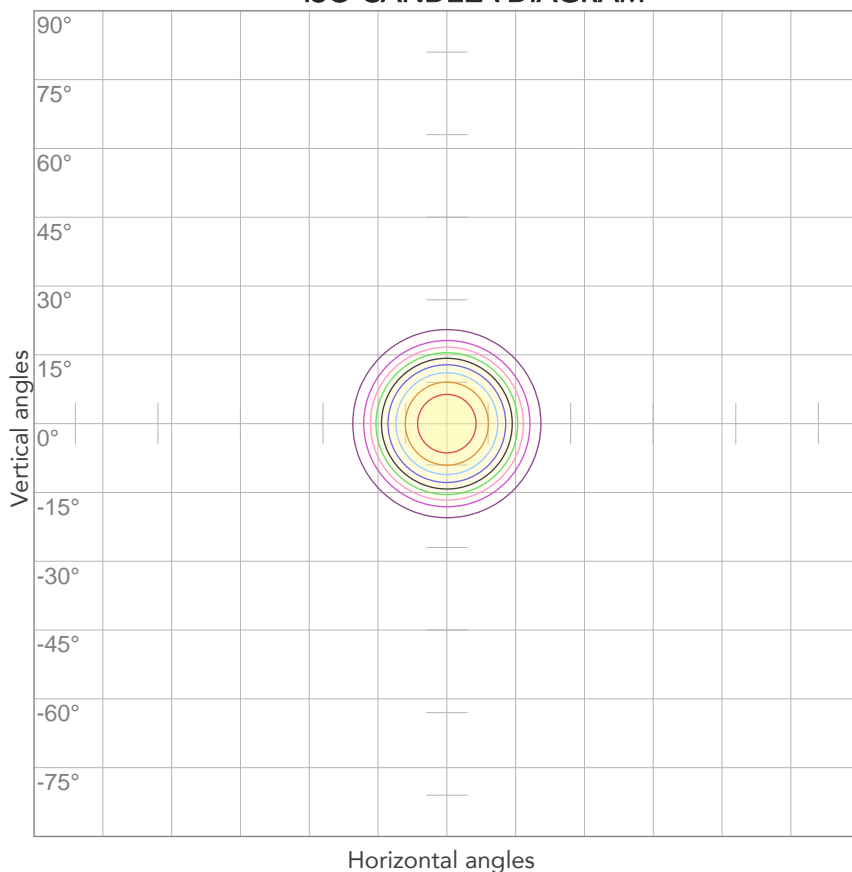
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	1,56A	329,4W	39lm/W

ISO CANDELA DIAGRAM



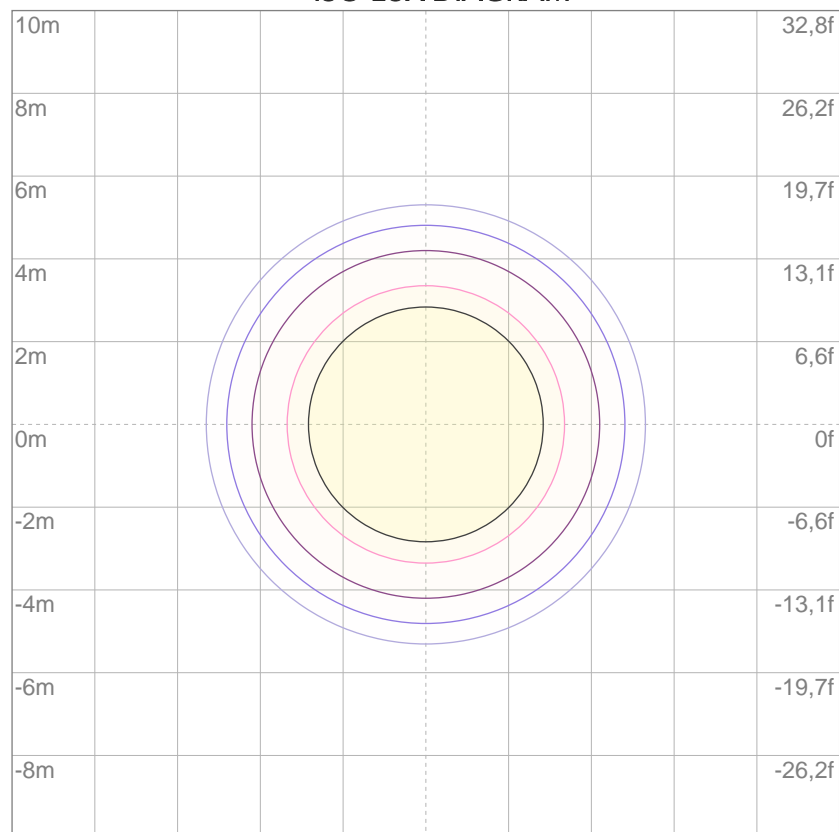
10%	4490 cd
20%	8979 cd
30%	13469 cd
40%	17959 cd
50%	22448 cd
60%	26938 cd
70%	31427 cd
80%	35917 cd

Conditions:

Number of c-planes: 2

Candela at center: 44896 cd

ISO LUX DIAGRAM



3%	13,5 lx
5%	22,4 lx
10%	44,9 lx
30%	135 lx
50%	224 lx

Conditions:

Number of c-planes: 2

Lux at center: 449 lx

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



Total lumen output:

9421 lm

Peak candela output:

91104 cd

Light quality:

CRI: 90,9

Color temperature:

4012 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

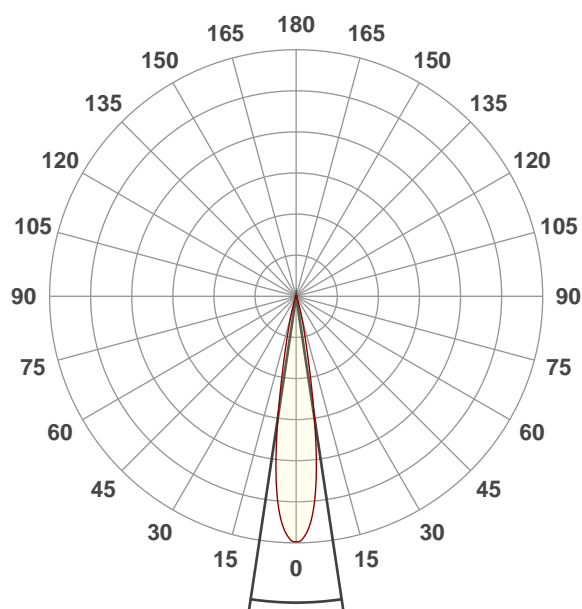
4000K

Operator:

Paolo Carvone

Date and time:

30/01/2020 11:04:41

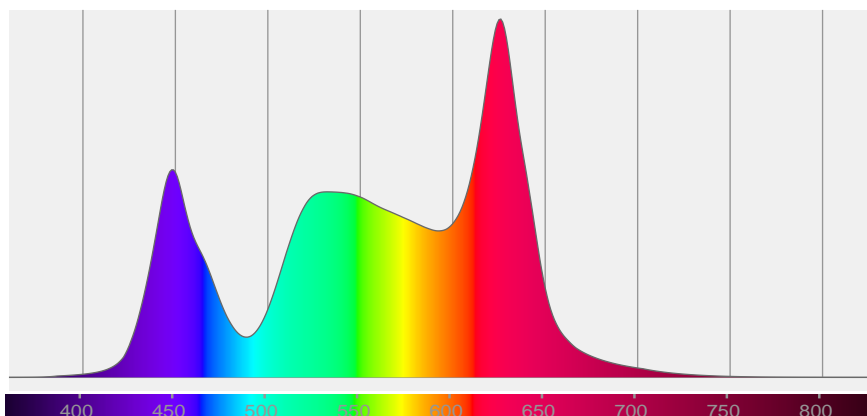


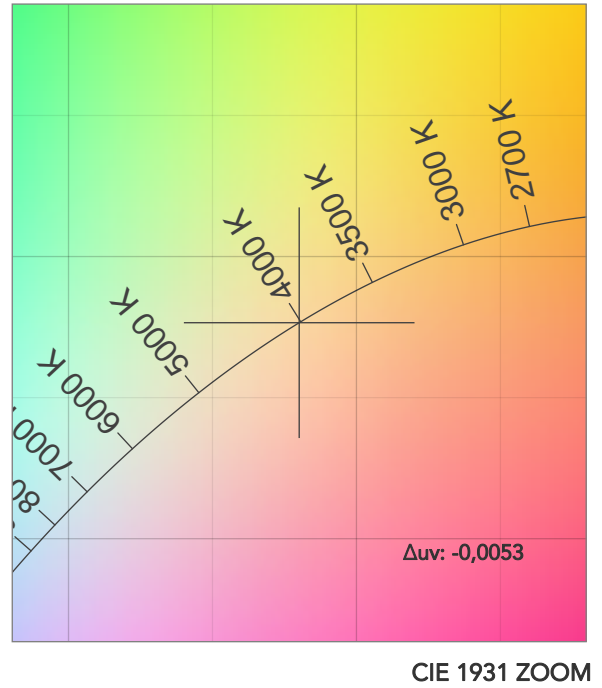
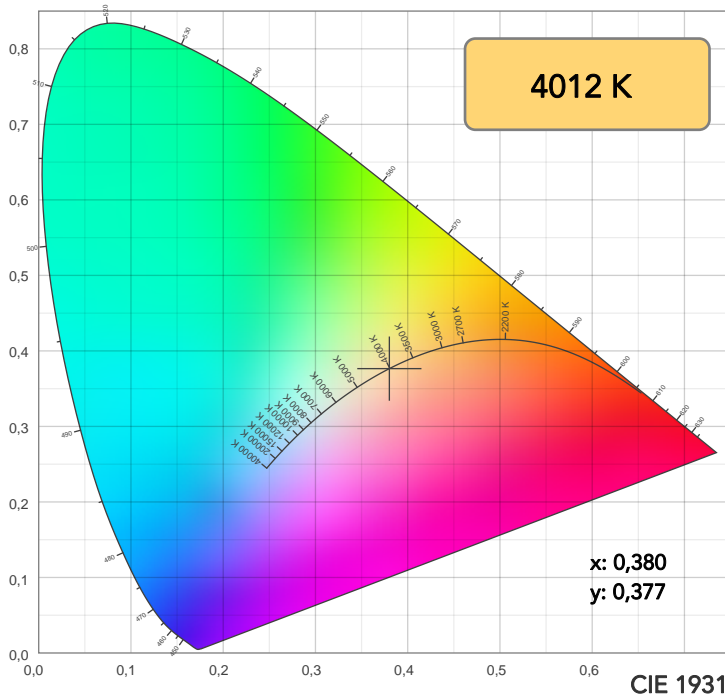
Beam angle 50%: 17,1°

Field angle 10%: 28,8°

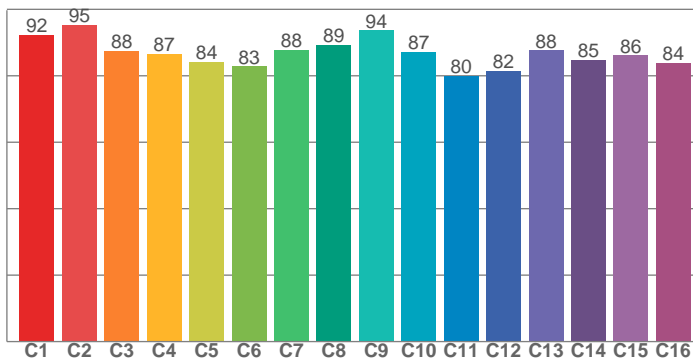
Cut off angle 2.5%: 39,2°

Spectra

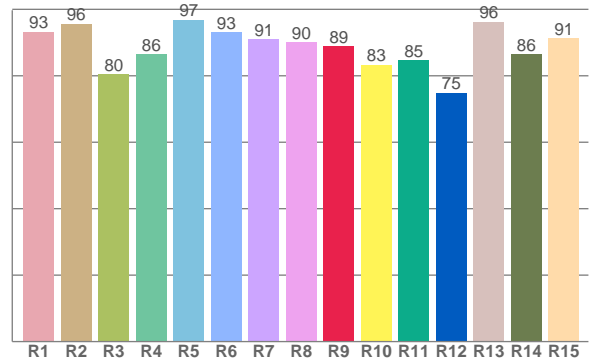




TM30: 87,0



CRI: 90,9 (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
93,2	95,6	80,5	86,5	96,9	93,1	91,0	90,2	89,0	83,3	84,6	74,9	96,3	86,4	91,3

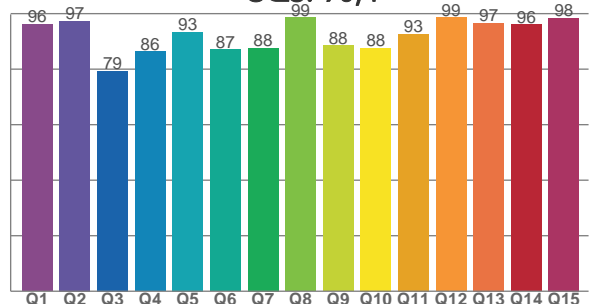
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,4	95,3	87,5	86,6	84,1	82,8	87,9	89,3	93,7	87,1	79,9	81,5	87,7	84,7	86,1	83,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,1	97,4	79,4	86,4	93,4	87,1	87,6	98,5	88,4	87,7	92,6	98,6	96,6	96,1	98,4

CQS: 90,4



COLOR PARAMETERS

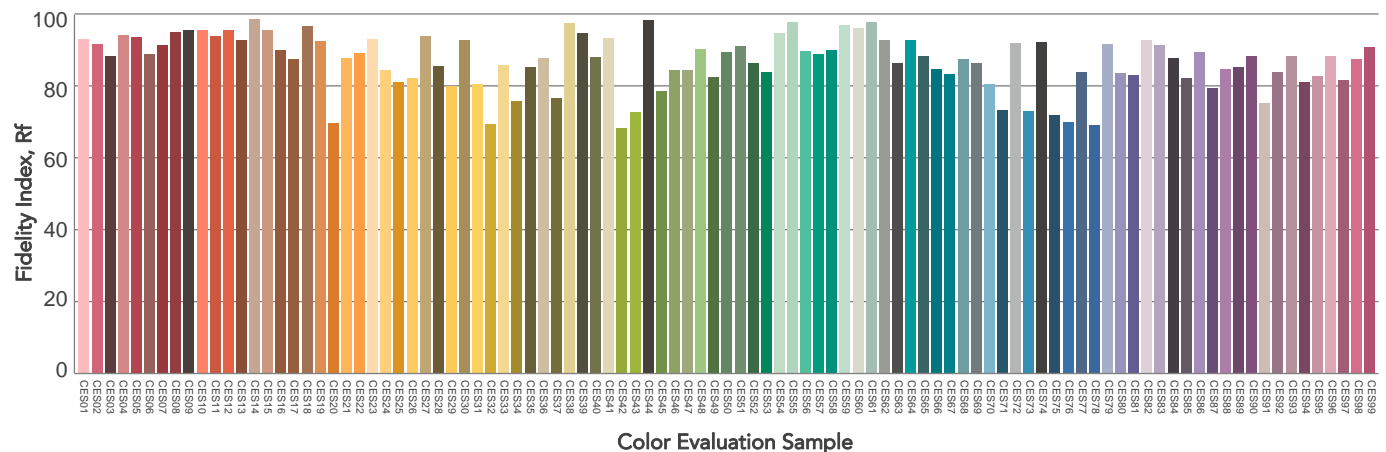
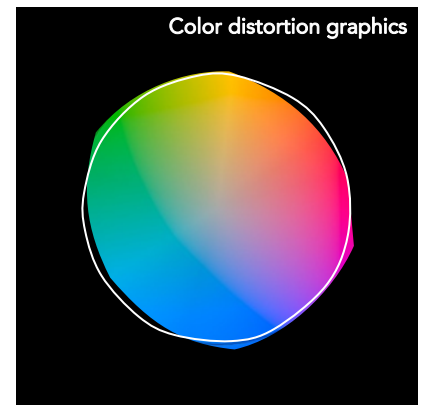
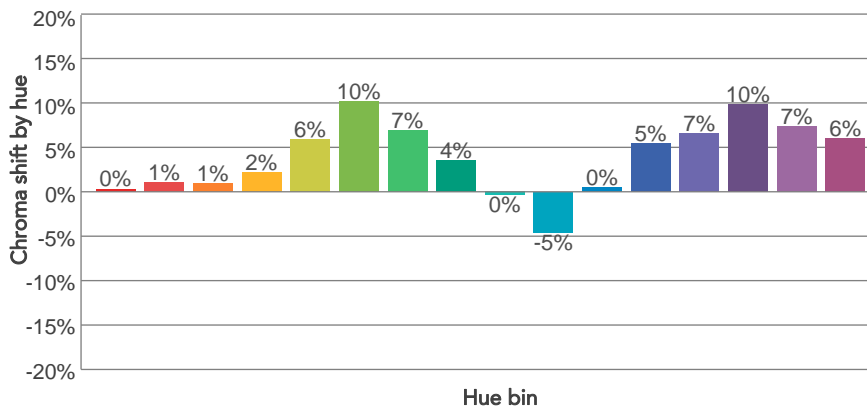
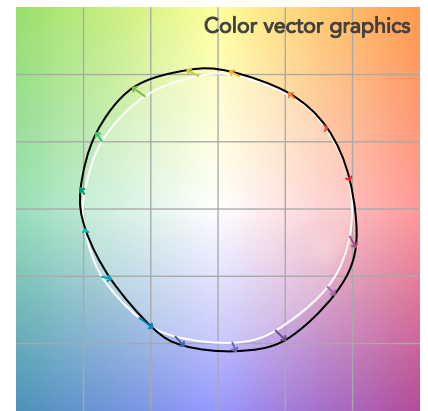
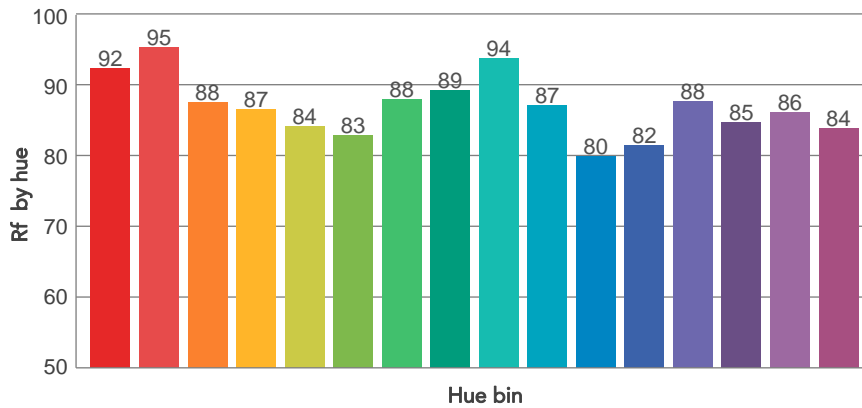
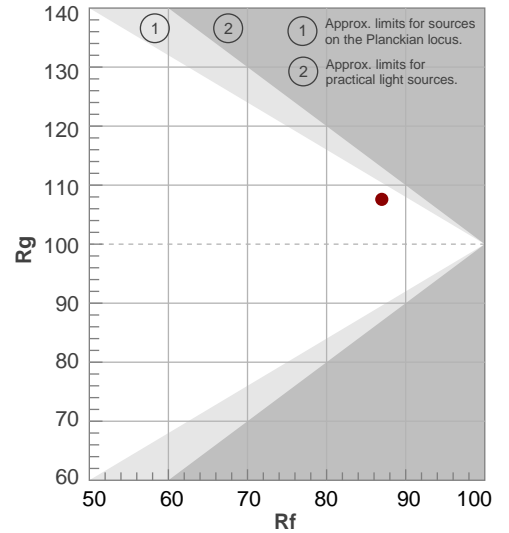
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4012 K	90,9	89,0	87,0	107,6	90,4	83	0,380	0,377	-0,0053

TM30 DETAILS

Rf 87,0
Fidelity index Rf

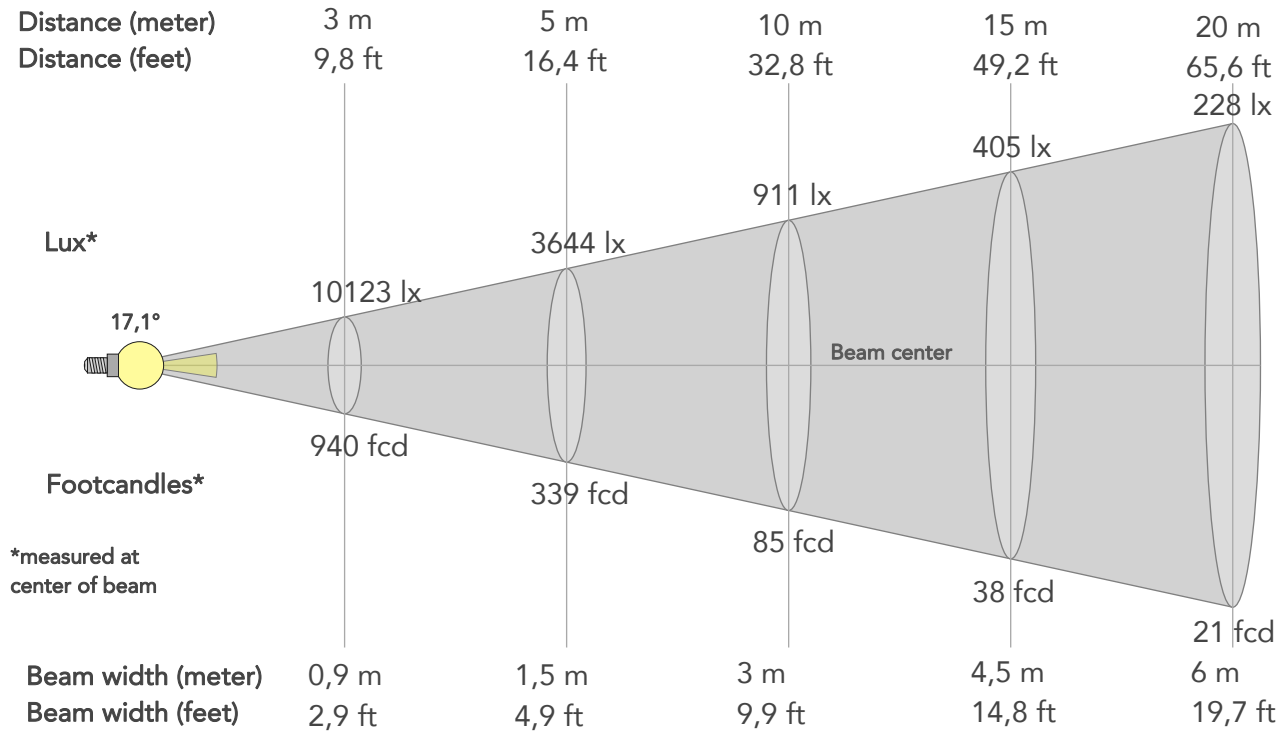
Rg 107,6
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	0%	-2%
2	95	1%	-1%
3	88	1%	5%
4	87	2%	7%
5	84	6%	7%
6	83	10%	4%
7	88	7%	-3%
8	89	4%	-3%
9	94	0%	-2%
10	87	-5%	5%
11	80	0%	12%
12	82	5%	7%
13	88	7%	1%
14	85	10%	2%
15	86	7%	-2%
16	84	6%	-7%



BEAM DETAILS

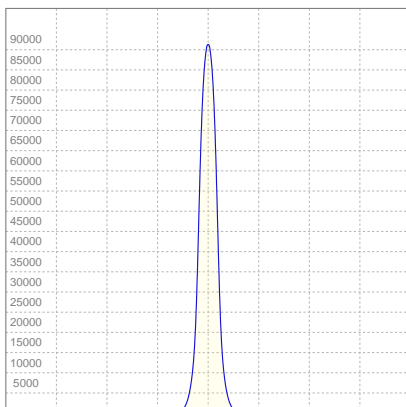
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,1°	28,8°	39,2°	96,0%	94,5%



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	91104lx	22776lx	10123lx	5694lx	3644lx	1620lx	911lx	405lx	228lx	146lx	101lx	57lx	36lx
Footcand.	8464fcd	2116fcd	940fcd	529fcd	339fcd	150fcd	85fcd	38fcd	21fcd	14fcd	9fcd	5fcd	3fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3m	4,5m	6m	7,5m	9m	12m	15m
Beam wid.	1ft	2ft	2,9ft	3,9ft	4,9ft	7,4ft	9,9ft	14,8ft	19,7ft	24,6ft	29,6ft	39,4ft	49,3ft

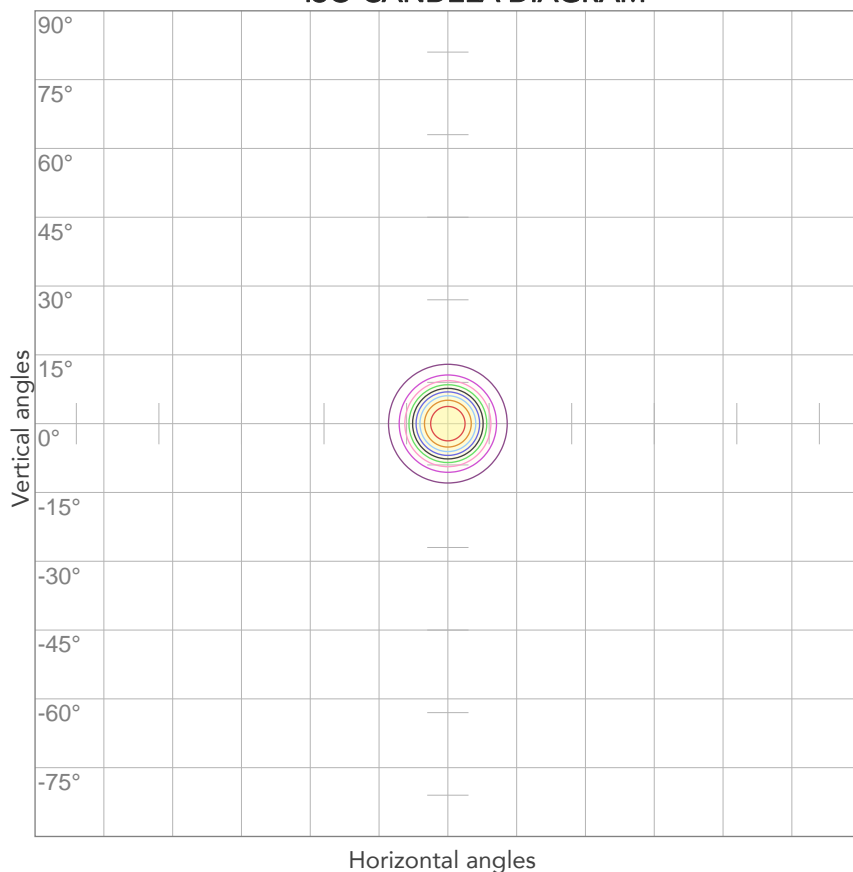
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
221V	1,56A	328,1W	29lm/W

ISO CANDELA DIAGRAM



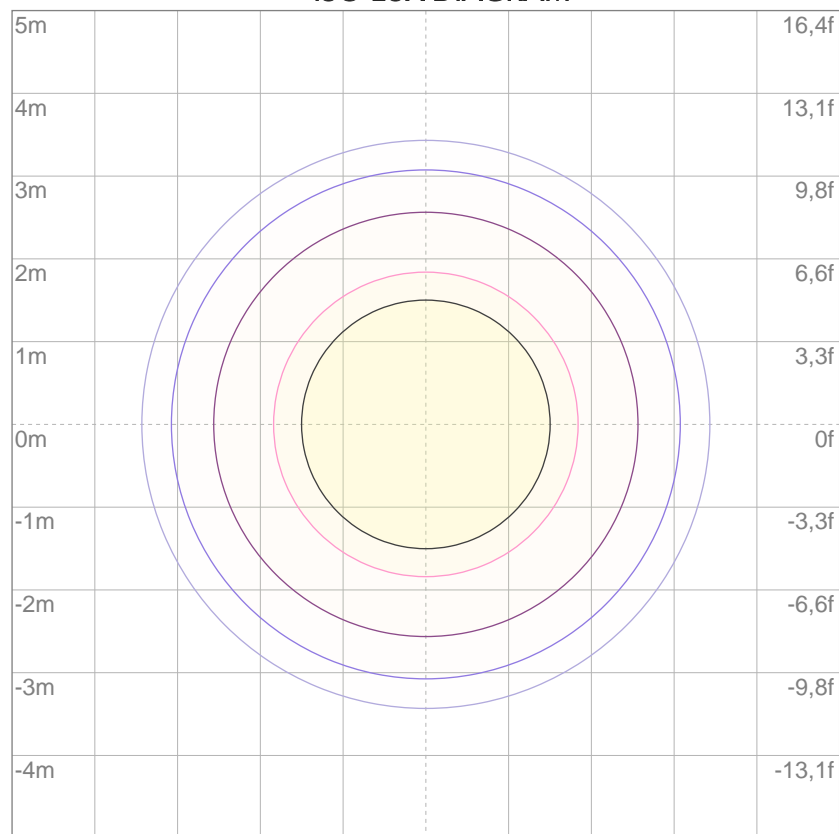
10%	9110 cd
20%	18221 cd
30%	27331 cd
40%	36442 cd
50%	45552 cd
60%	54662 cd
70%	63773 cd
80%	72883 cd

Conditions:

Number of c-planes: 2

Candela at center: 91104 cd

ISO LUX DIAGRAM



3%	27,3 lx
5%	45,6 lx
10%	91,1 lx
30%	273 lx
50%	456 lx

Conditions:

Number of c-planes: 2

Lux at center: 911 lx

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



Total lumen output:

9105 lm

Peak candela output:

12146 cd

Light quality:

CRI: 89,2

Color temperature:

5614 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

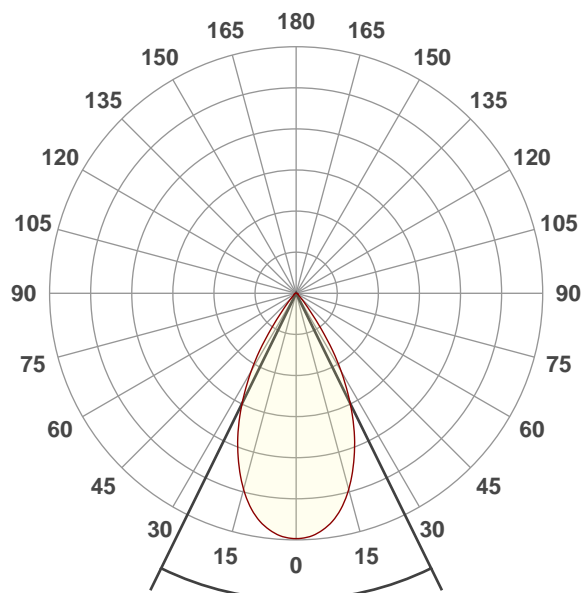
5600K

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:47:37

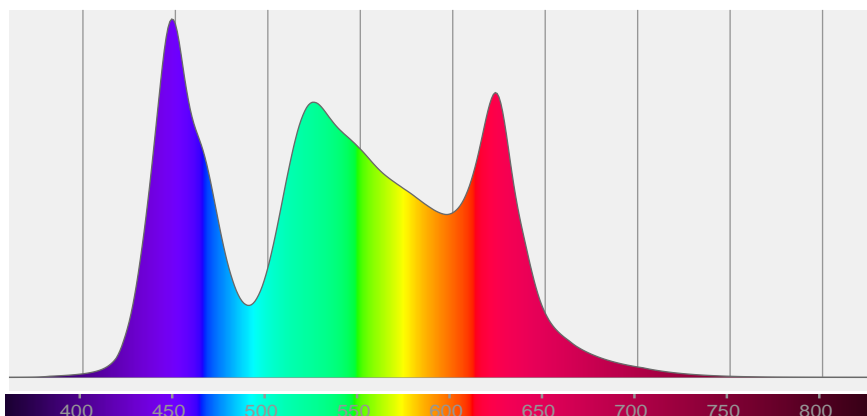


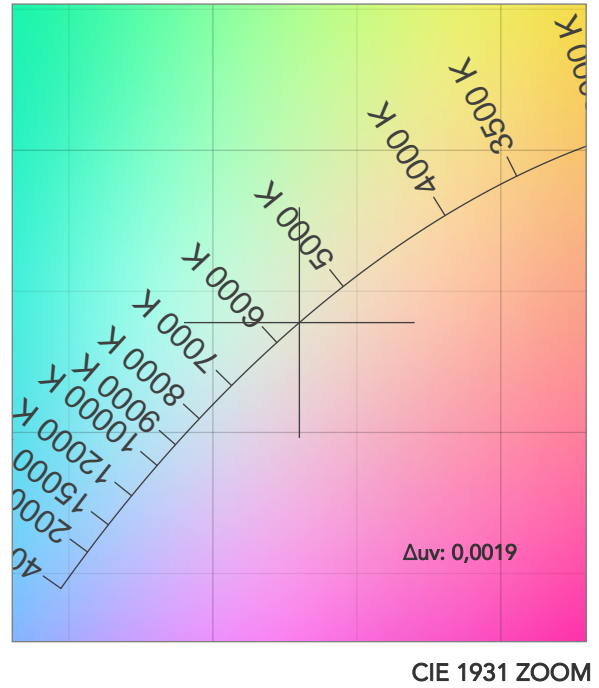
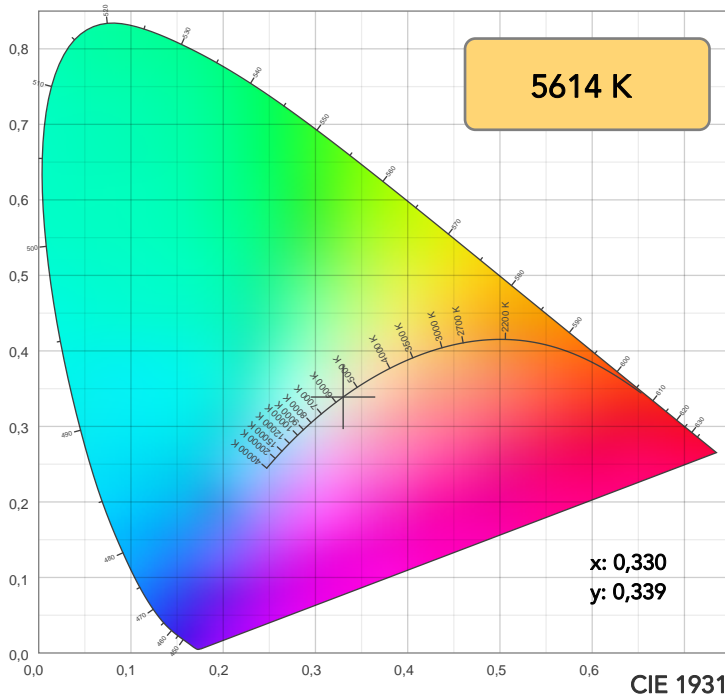
Beam angle 50%: 52,3°

Field angle 10%: 75,5°

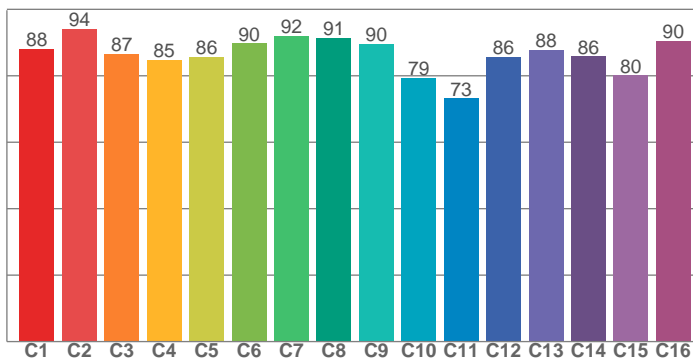
Cut off angle 2.5%: 91,7°

Spectra

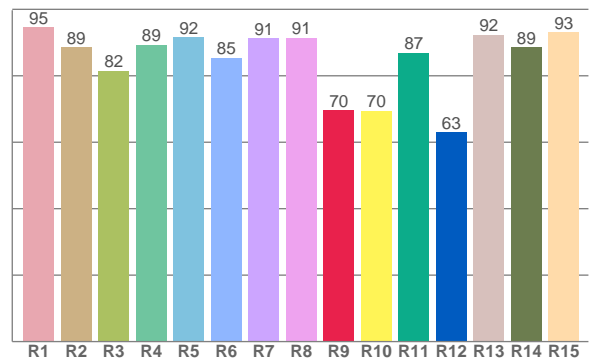




TM30: 86,2



CRI: 89,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,6	88,6	81,5	89,4	91,6	85,4	91,3	91,5	69,6	69,5	86,9	63,0	92,4	88,5	93,1

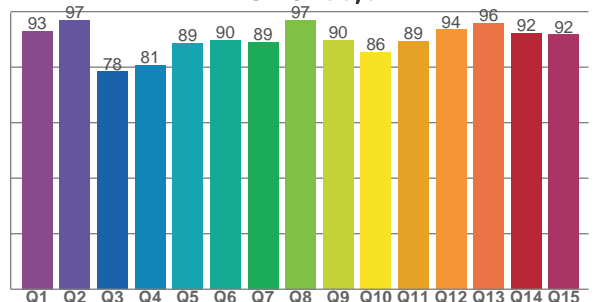
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,0	94,1	86,6	84,8	85,7	89,8	92,0	91,5	89,6	79,4	73,2	85,7	87,8	85,8	80,2	90,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,1	97,0	78,3	80,8	88,8	89,7	89,0	97,0	89,7	85,5	89,4	93,5	96,0	92,2	91,7

CQS: 88,8



COLOR PARAMETERS

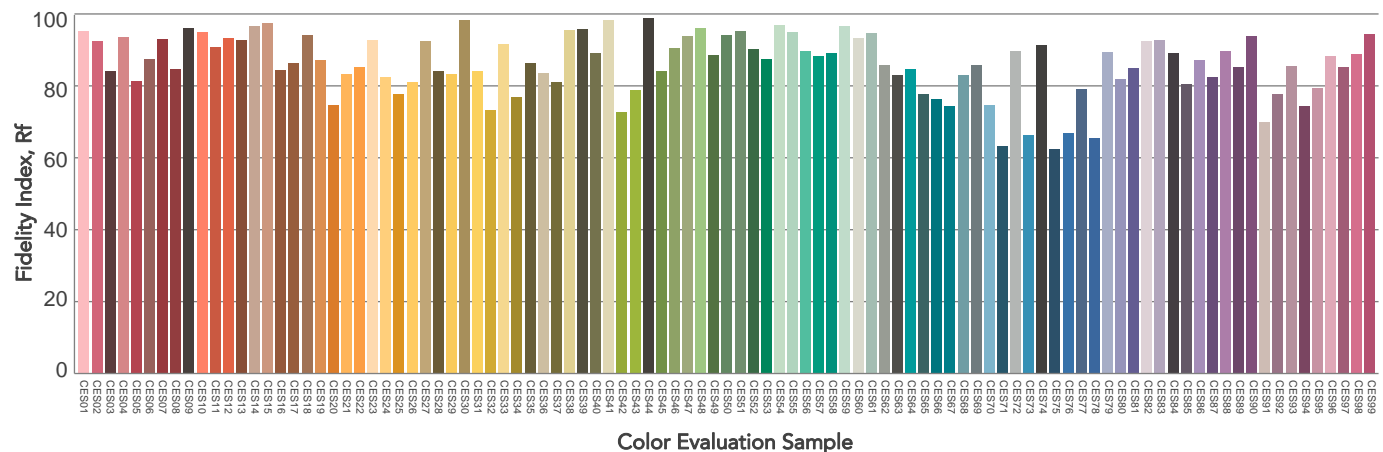
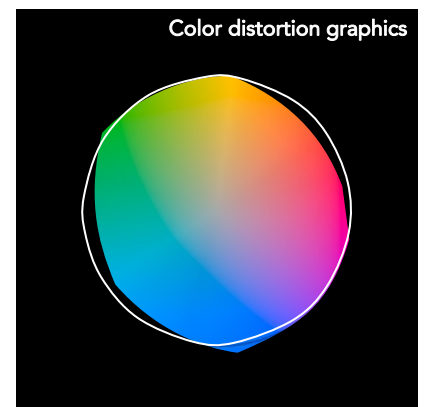
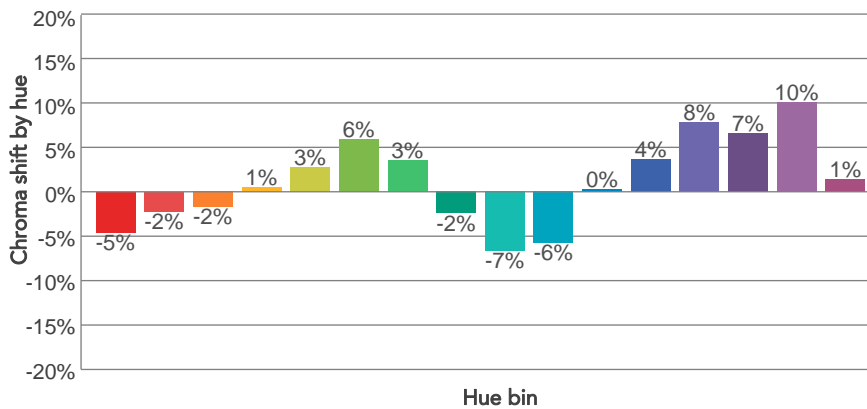
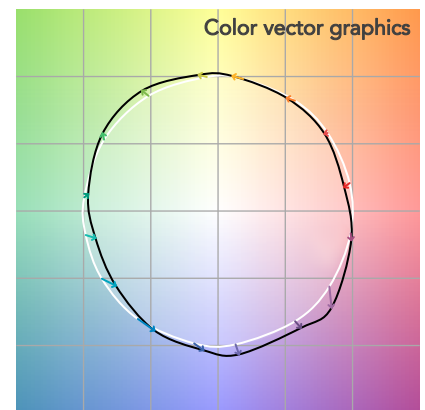
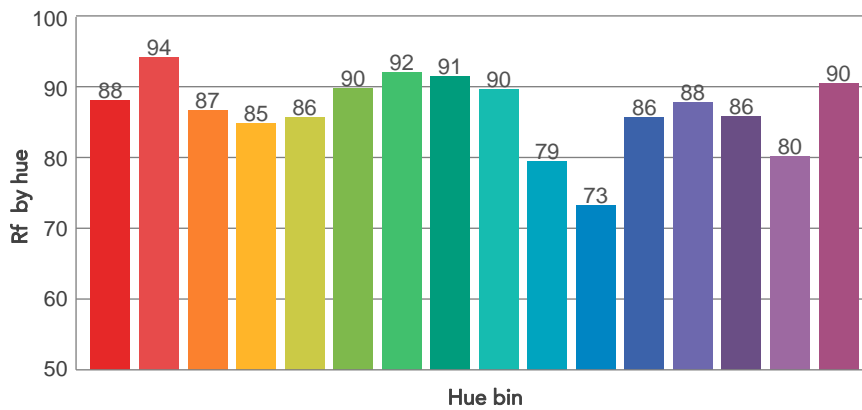
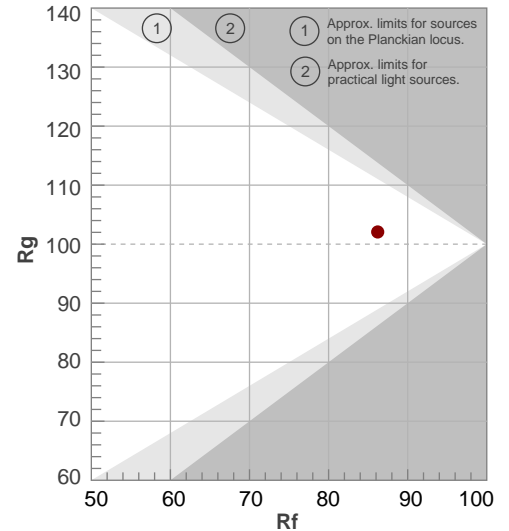
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5614 K	89,2	69,6	86,2	102,1	88,8	85	0,330	0,339	0,0019

TM30 DETAILS

Rf 86,2
Fidelity index Rf

Rg 102,1
Gammut index

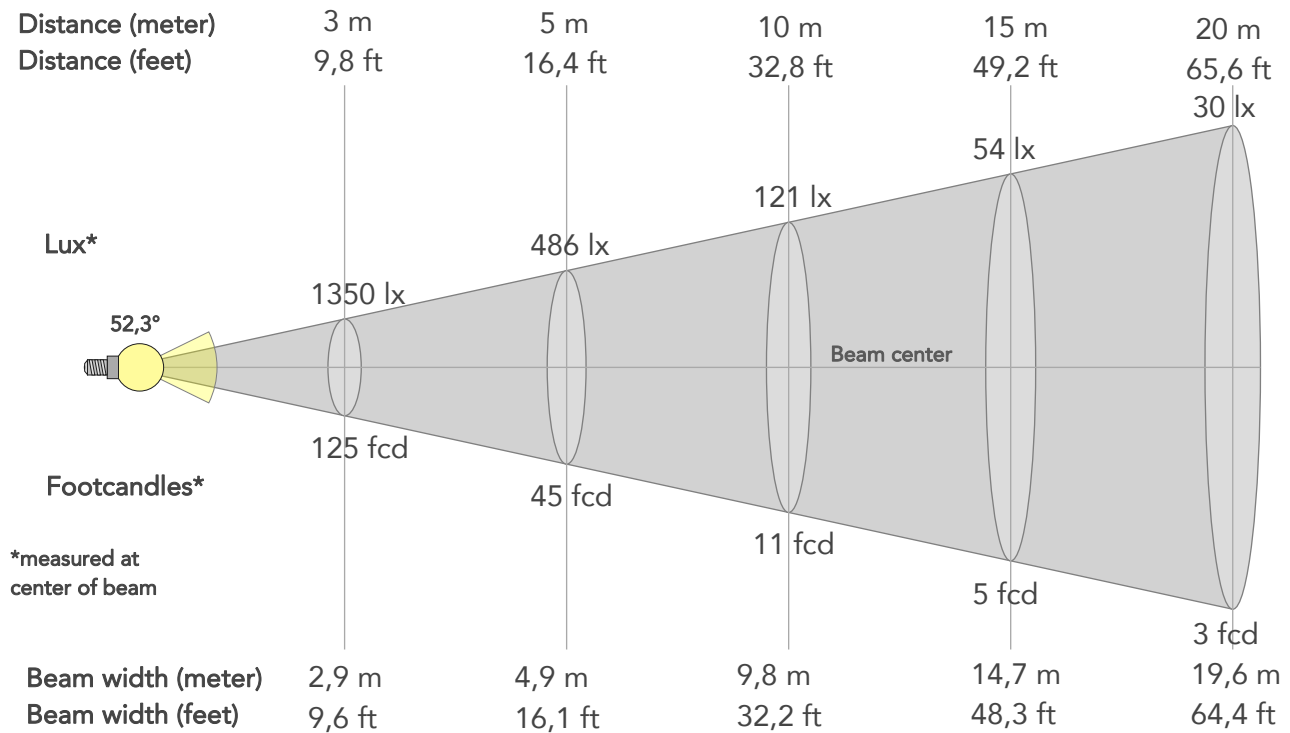
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	-5%	-2%
2	94	-2%	1%
3	87	-2%	6%
4	85	1%	8%
5	86	3%	6%
6	90	6%	2%
7	92	3%	-3%
8	91	-2%	-3%
9	90	-7%	4%
10	79	-6%	10%
11	73	0%	15%
12	86	4%	8%
13	88	8%	1%
14	86	7%	1%
15	80	10%	-12%
16	90	1%	-5%



BEAM DETAILS



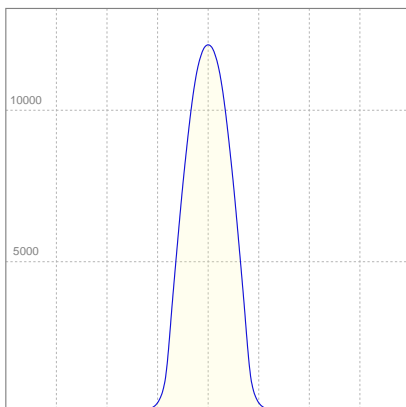
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,3°	75,5°	91,7°	95,8%	93,3%



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	12146lx	3037lx	1350lx	759lx	486lx	216lx	121lx	54lx	30lx	19lx	13lx	8lx	5lx
Footcand.	1128fcd	282fcd	125fcd	71fcd	45fcd	20fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	1m	2m	2,9m	3,9m	4,9m	7,4m	9,8m	14,7m	19,6m	24,5m	29,5m	39,3m	49,1m
Beam wid.	3,2ft	6,5ft	9,6ft	12,9ft	16,1ft	24,2ft	32,2ft	48,3ft	64,4ft	80,5ft	96,6ft	128,8ft	161ft

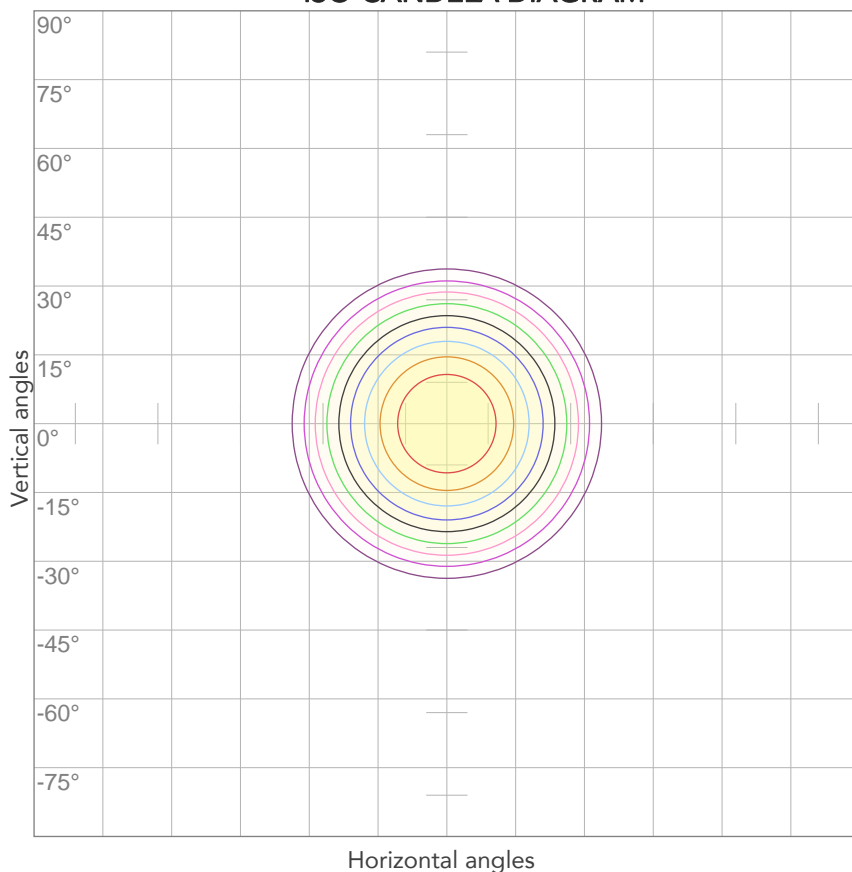
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	1,18A	240,8W	38lm/W

ISO CANDELA DIAGRAM



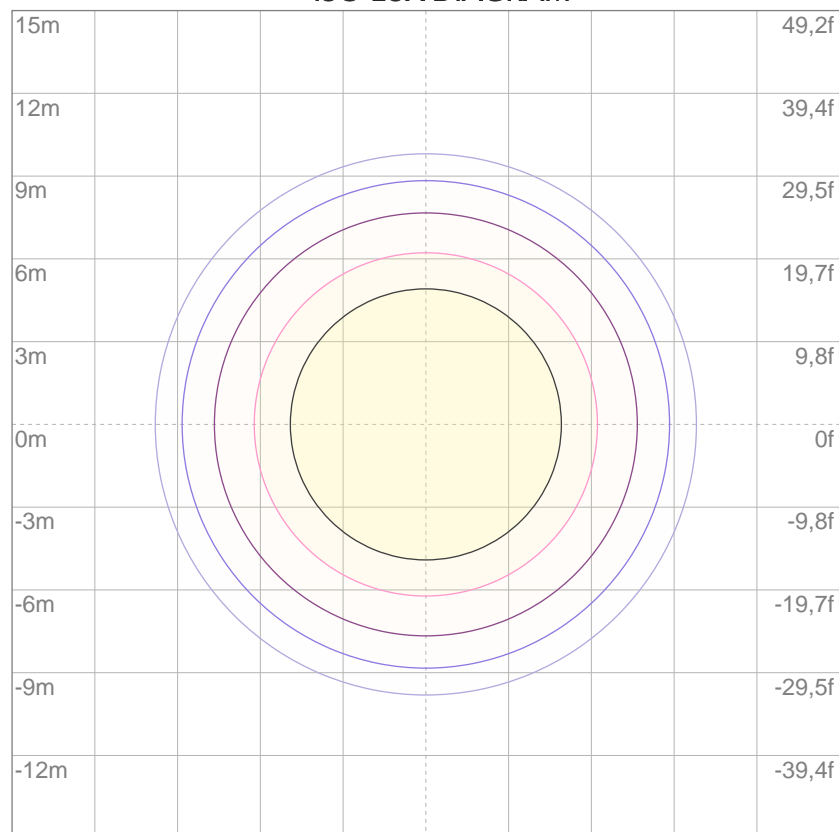
10%	1215 cd
20%	2429 cd
30%	3644 cd
40%	4859 cd
50%	6073 cd
60%	7288 cd
70%	8502 cd
80%	9717 cd

Conditions:

Number of c-planes: 2

Candela at center: 12146 cd

ISO LUX DIAGRAM



3%	3,64 lx
5%	6,07 lx
10%	12,1 lx
30%	36,4 lx
50%	60,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 121 lx

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



Total lumen output:

12718 lm

Peak candela output:

44350 cd

Light quality:

CRI: 90,2

Color temperature:

5614 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

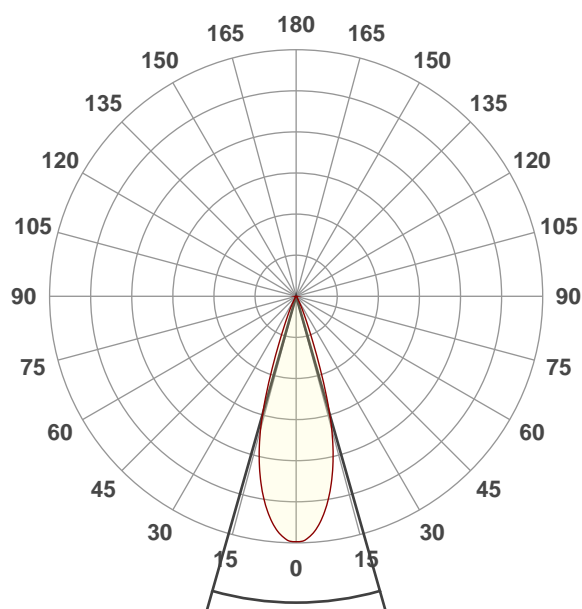
5600K

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:18:48

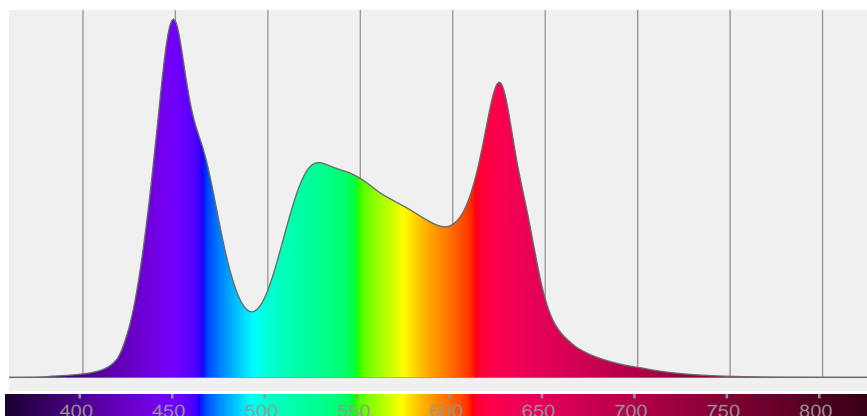


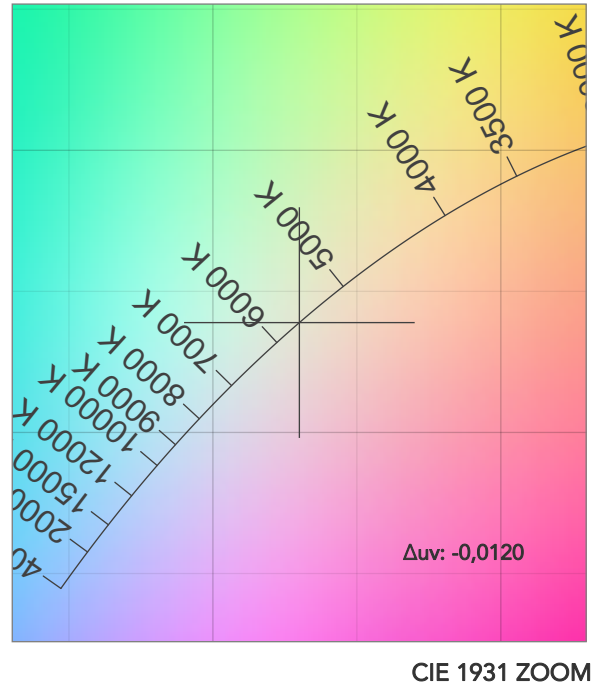
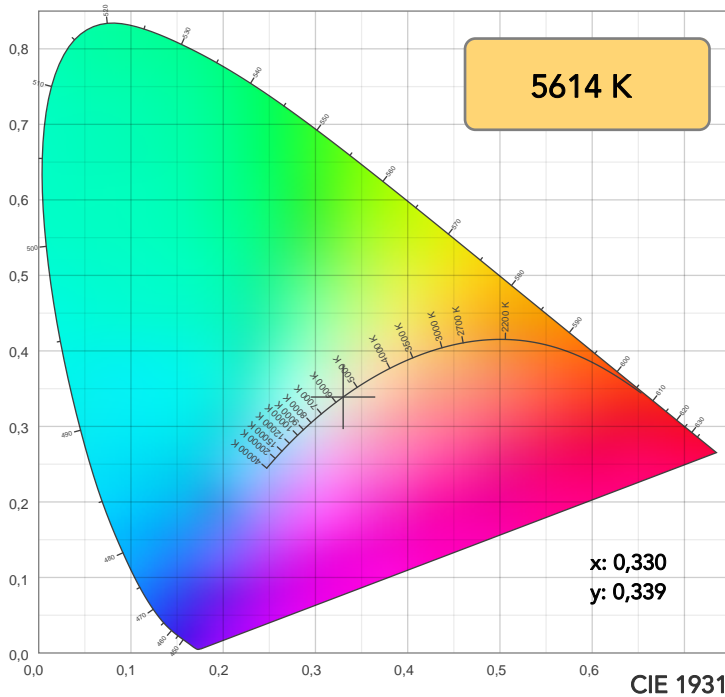
Beam angle 50%: 31,7°

Field angle 10%: 45,7°

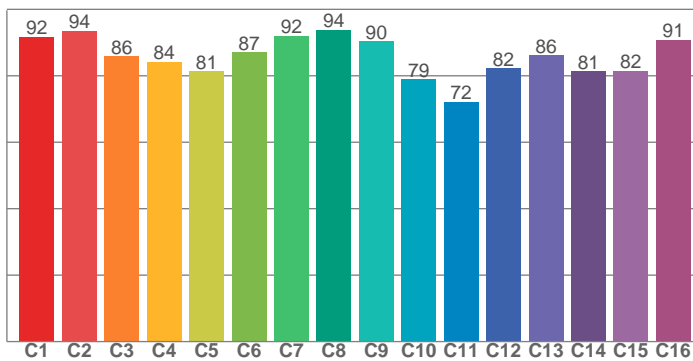
Cut off angle 2.5%: 57,4°

Spectra

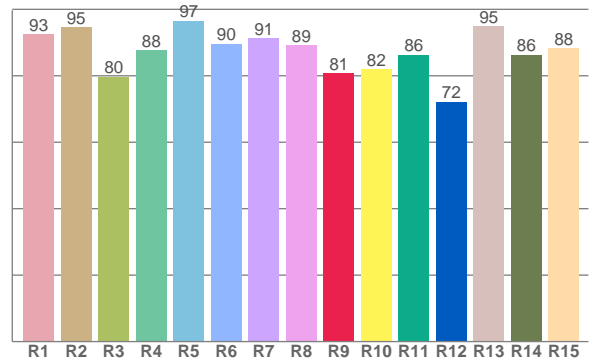




TM30: 85,6



CRI: 90,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,5	94,6	79,7	87,7	96,6	89,6	91,3	89,3	80,8	82,0	86,3	72,2	94,9	86,4	88,2

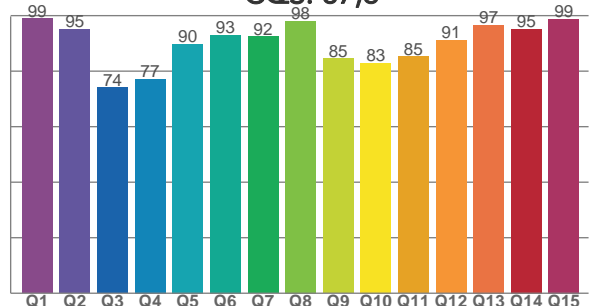
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,8	93,5	85,9	84,3	81,3	87,1	92,1	93,8	90,3	78,9	72,1	82,2	86,1	81,3	81,5	90,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,9	95,1	74,1	77,2	89,7	93,1	92,5	98,1	84,5	83,0	85,3	91,1	96,7	95,2	98,8

CQS: 87,6



COLOR PARAMETERS

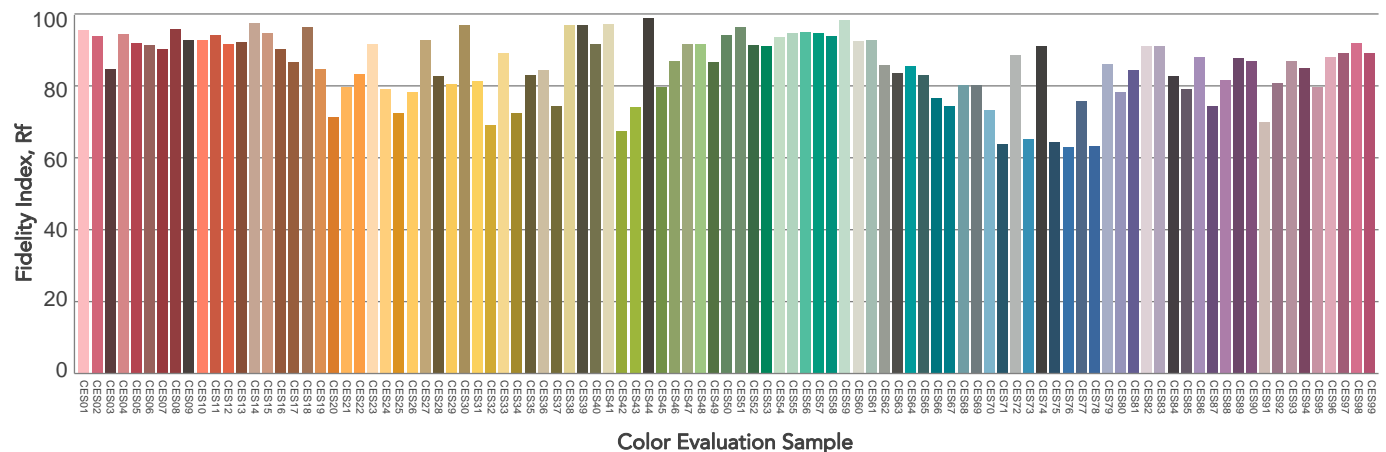
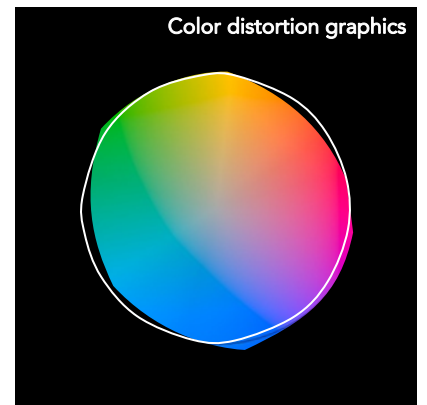
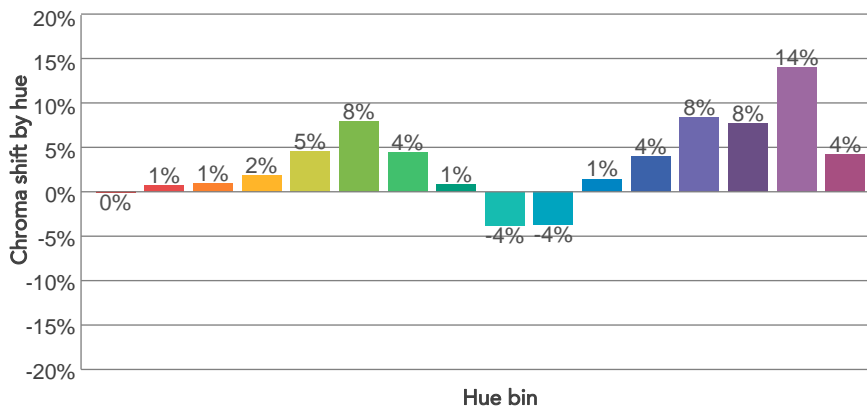
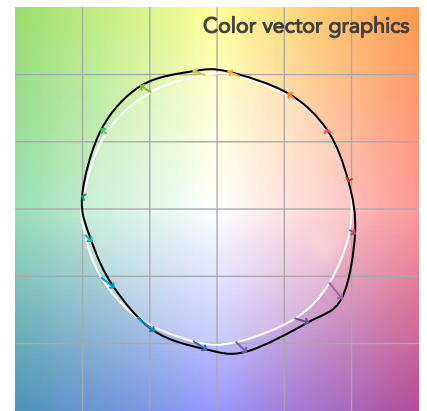
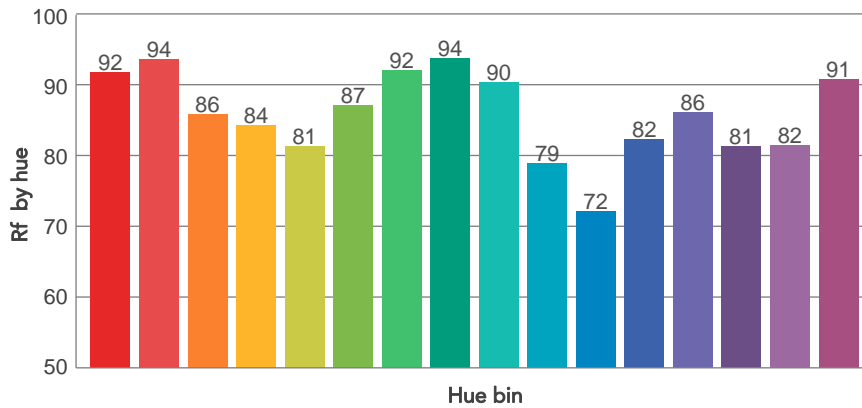
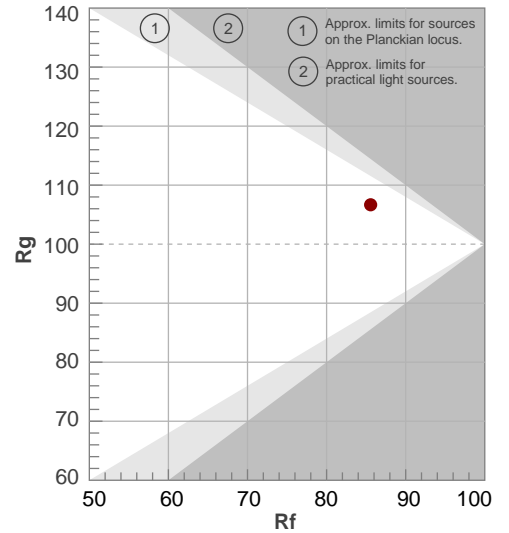
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5614 K	90,2	80,8	85,6	106,7	87,6	87	0,330	0,339	-0,0120

TM30 DETAILS

Rf 85,6
Fidelity index Rf

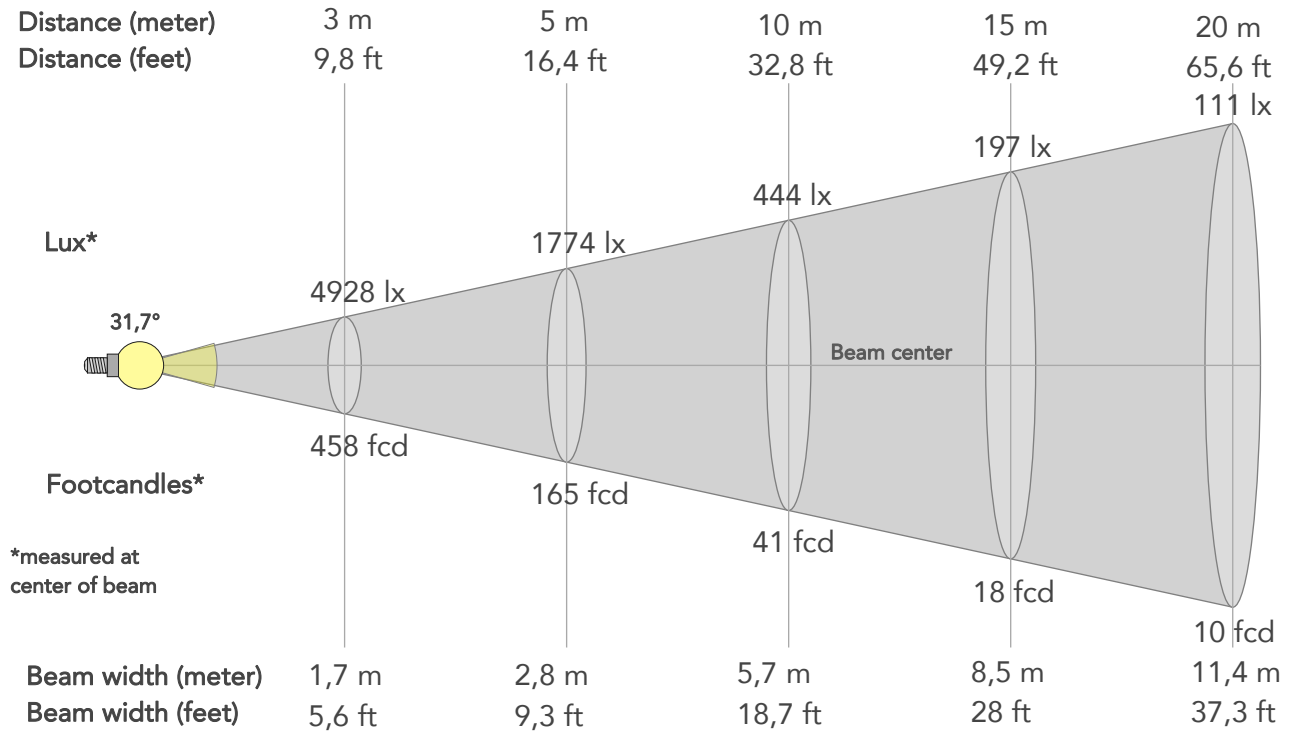
Rg 106,7
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	0%	0%
2	94	1%	1%
3	86	1%	6%
4	84	2%	8%
5	81	5%	8%
6	87	8%	4%
7	92	4%	-1%
8	94	1%	0%
9	90	-4%	5%
10	79	-4%	11%
11	72	1%	15%
12	82	4%	10%
13	86	8%	6%
14	81	8%	6%
15	82	14%	-4%
16	91	4%	-2%



BEAM DETAILS

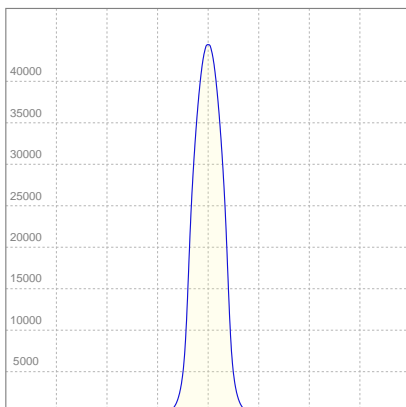
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,7°	45,7°	57,4°	94,9%	93,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	44350lx	11088lx	4928lx	2772lx	1774lx	788lx	444lx	197lx	111lx	71lx	49lx	28lx	18lx
Footcand.	4120fcd	1030fcd	458fcd	258fcd	165fcd	73fcd	41fcd	18fcd	10fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,3m	5,7m	8,5m	11,4m	14,2m	17,1m	22,7m	28,4m
Beam wid.	1,9ft	3,8ft	5,6ft	7,4ft	9,3ft	14ft	18,7ft	28ft	37,3ft	46,6ft	56ft	74,6ft	93,3ft

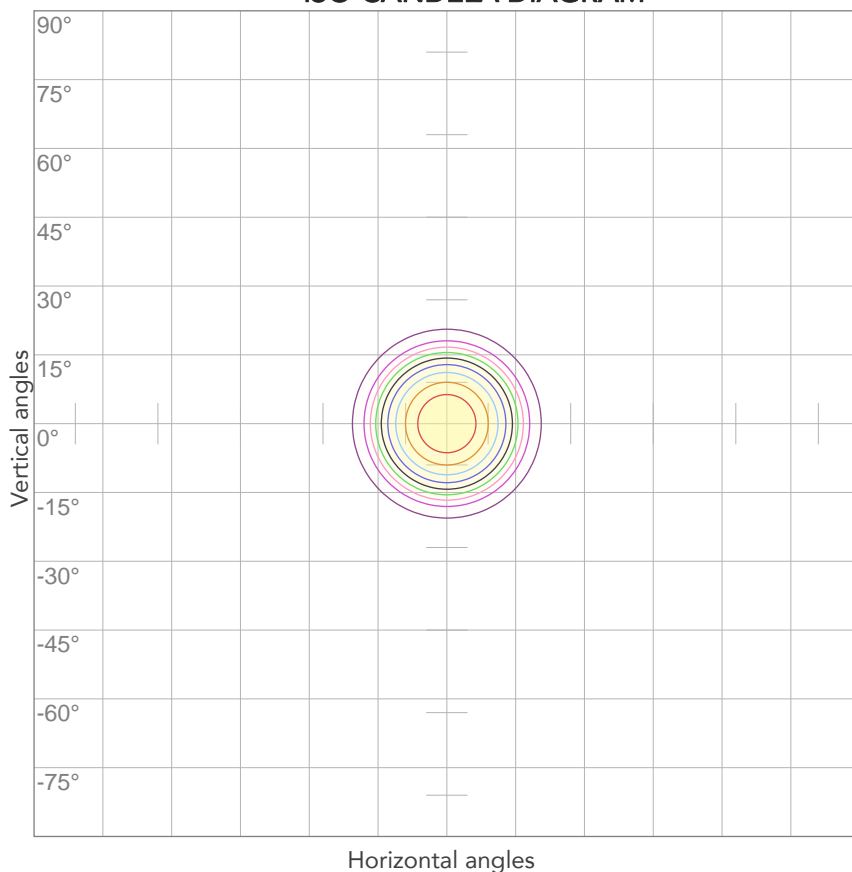
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	1,63A	344,6W	37lm/W

ISO CANDELA DIAGRAM



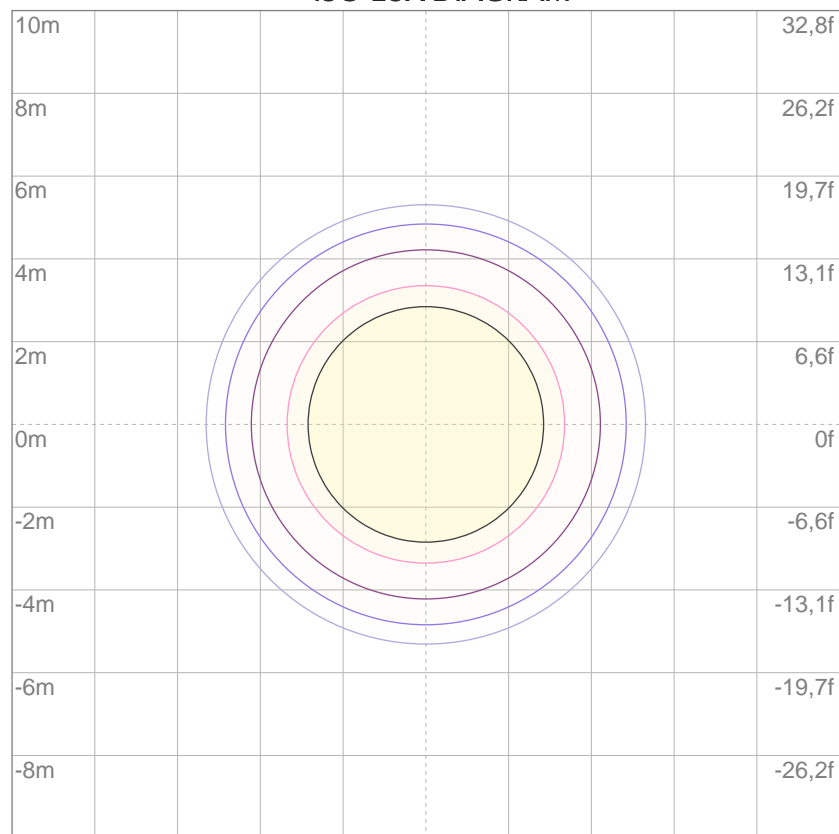
10%	4435 cd
20%	8870 cd
30%	13305 cd
40%	17740 cd
50%	22175 cd
60%	26610 cd
70%	31045 cd
80%	35480 cd

Conditions:

Number of c-planes: 2

Candela at center: 44350 cd

ISO LUX DIAGRAM



3%	13,3 lx
5%	22,2 lx
10%	44,4 lx
30%	133 lx
50%	222 lx

Conditions:

Number of c-planes: 2

Lux at center: 444 lx

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



Total lumen output:

9493 lm

Peak candela output:

90391 cd

Light quality:

CRI: 90,7

Color temperature:

5614 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

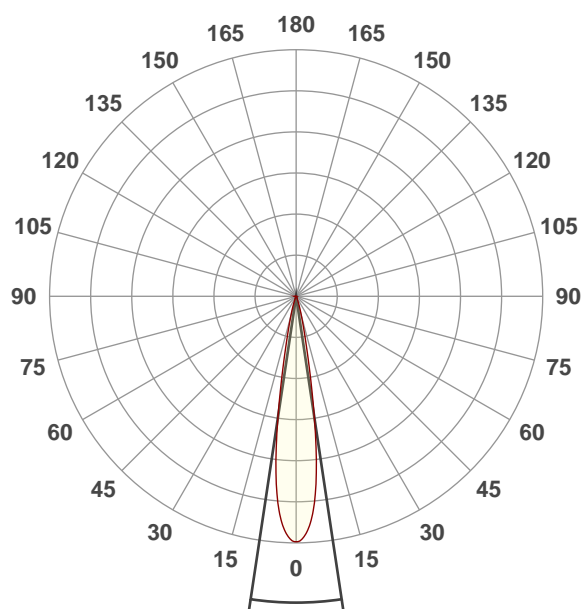
5600K

Operator:

Paolo Carvone

Date and time:

30/01/2020 11:06:41

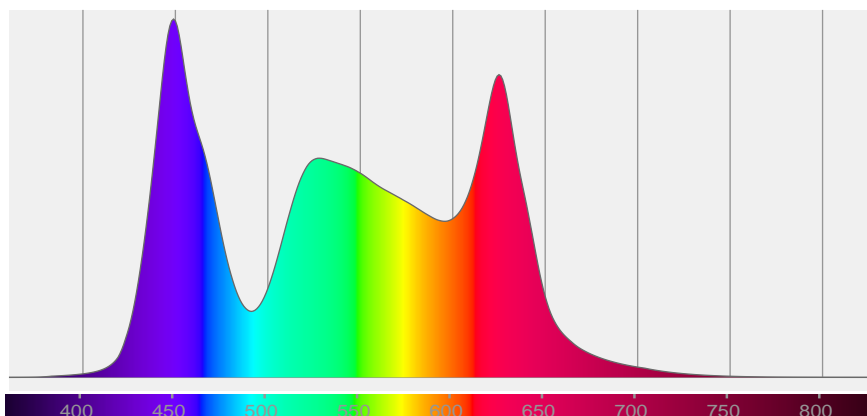


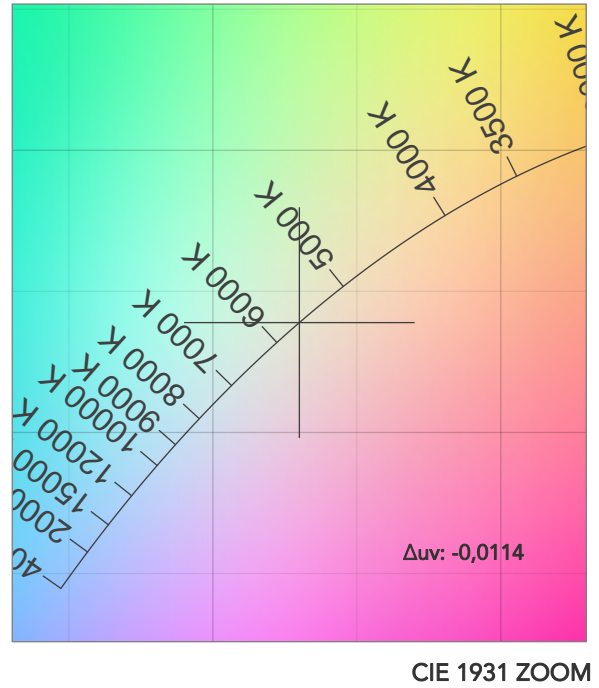
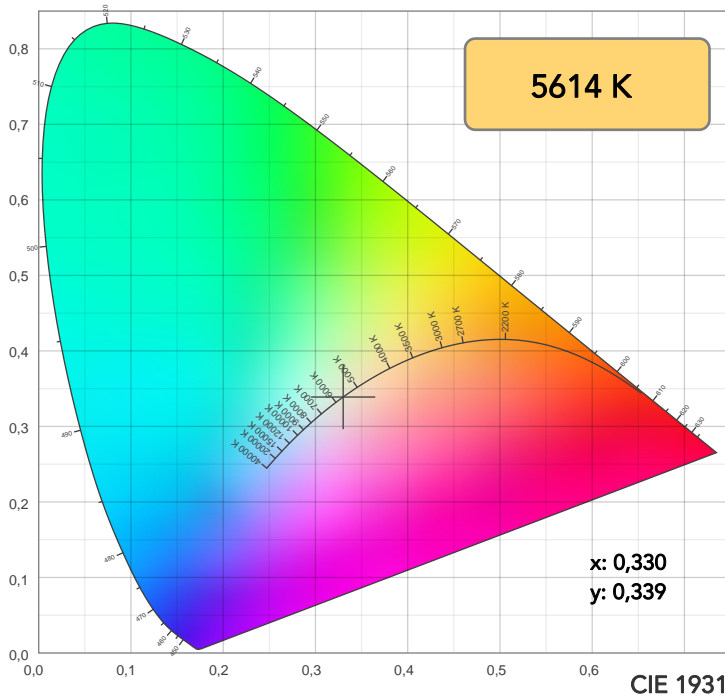
Beam angle 50%: 17,1°

Field angle 10%: 28,7°

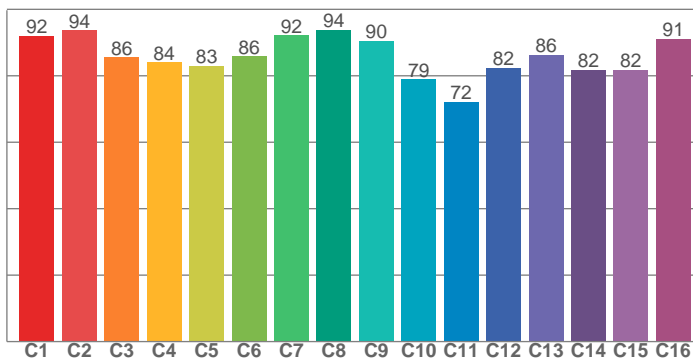
Cut off angle 2.5%: 39,3°

Spectra

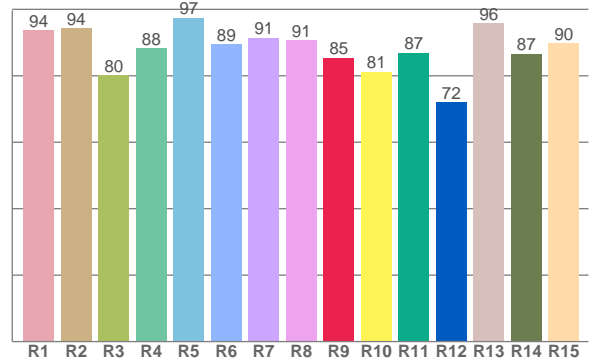




TM30: 85,6



CRI: 90,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,6	94,3	80,1	88,2	97,4	89,5	91,4	90,7	85,4	81,2	86,9	72,0	95,7	86,6	89,8

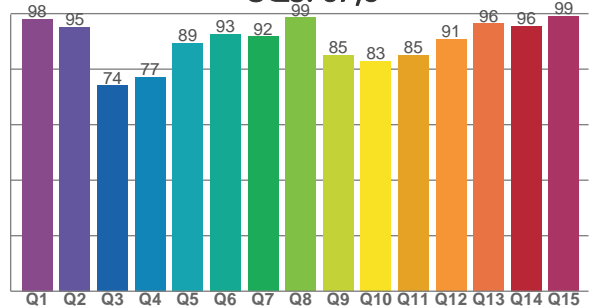
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,0	93,7	85,6	84,0	83,0	85,9	92,1	93,9	90,5	78,9	72,2	82,4	86,3	81,8	81,8	91,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,1	95,2	74,0	77,2	89,5	92,7	91,8	98,6	85,0	83,0	85,2	90,9	96,4	95,6	99,0

CQS: 87,6



COLOR PARAMETERS

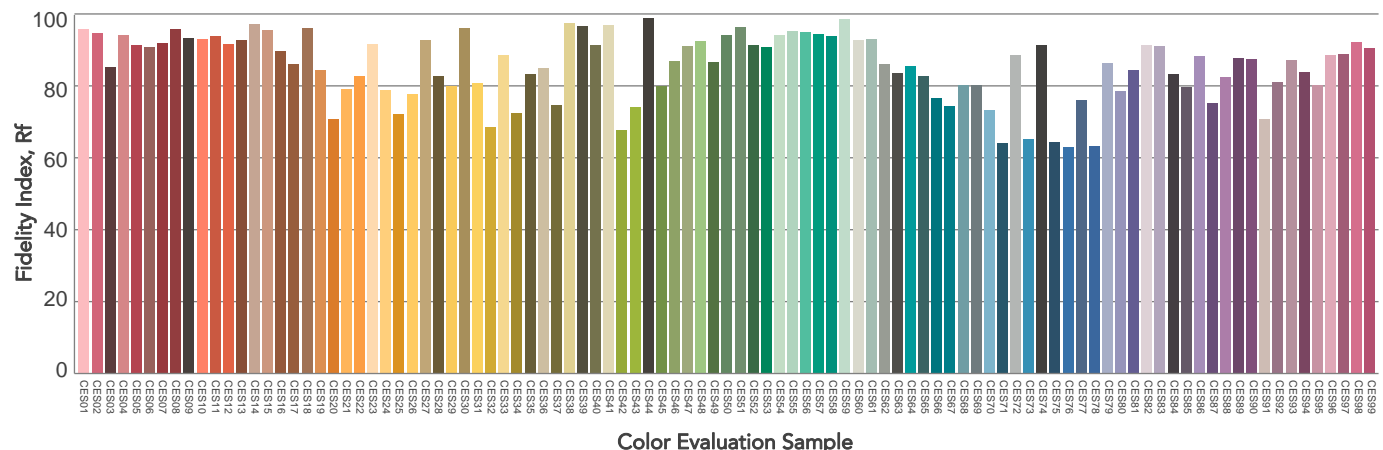
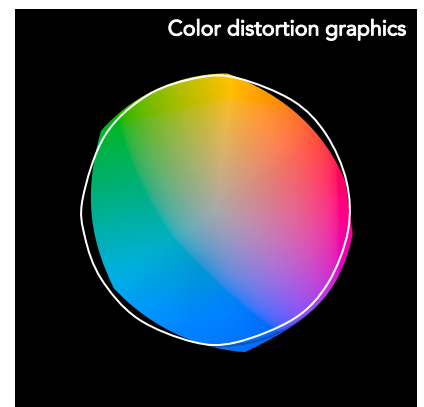
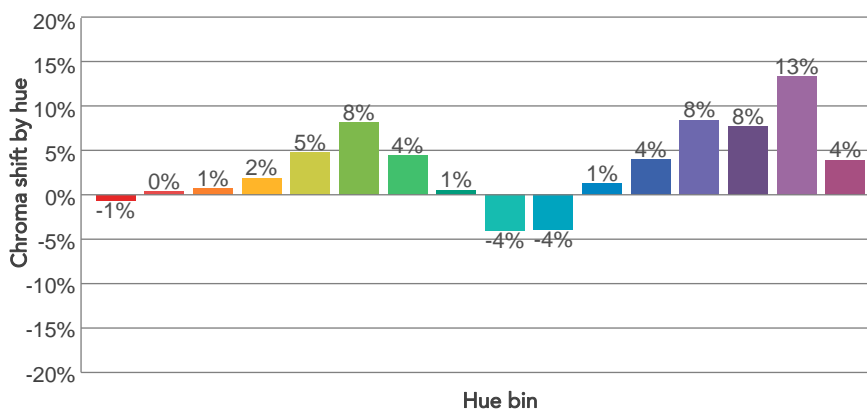
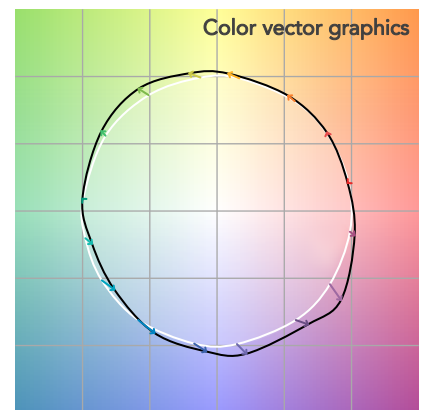
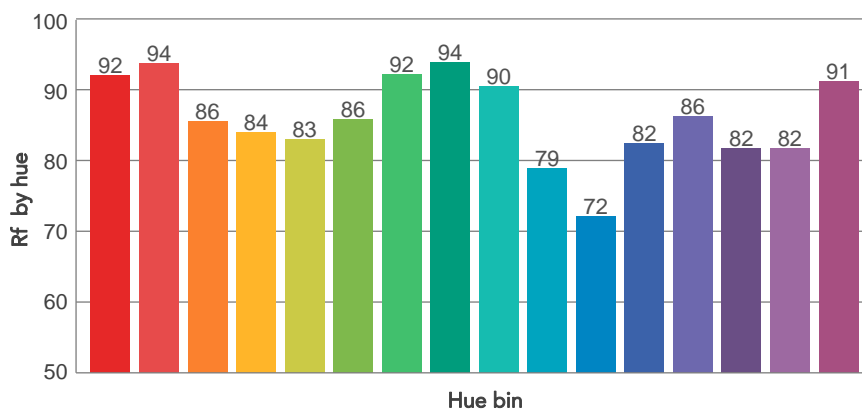
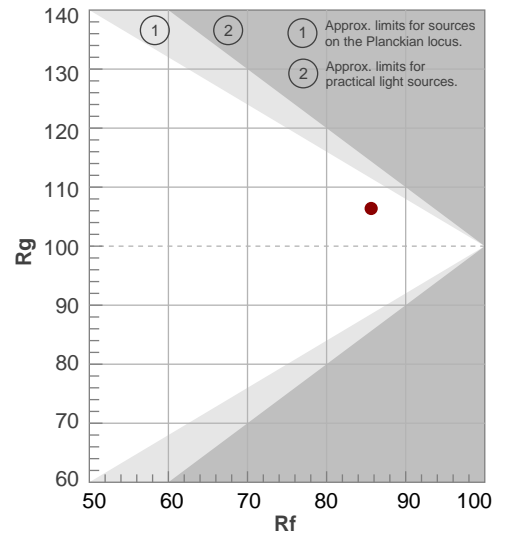
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5614 K	90,7	85,4	85,6	106,4	87,6	86	0,330	0,339	-0,0114

TM30 DETAILS

Rf 85,6
Fidelity index Rf

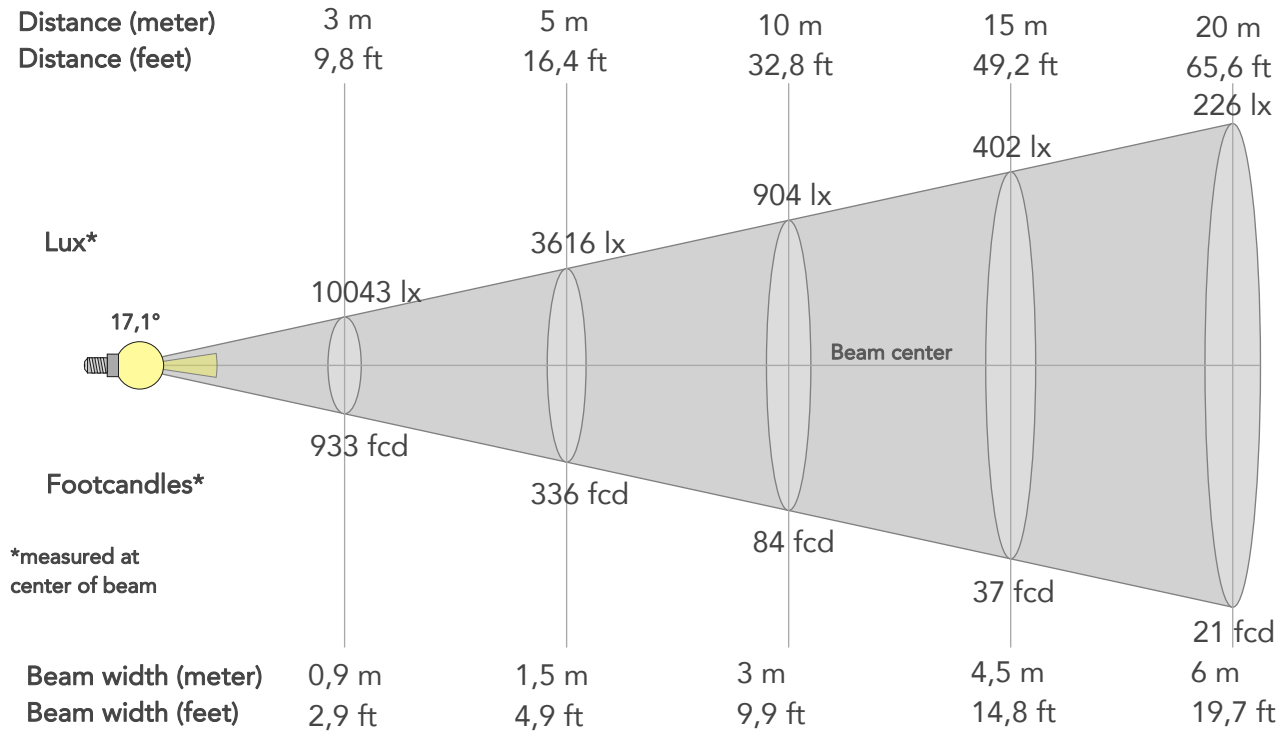
Rg 106,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	-1%	0%
2	94	0%	2%
3	86	1%	6%
4	84	2%	9%
5	83	5%	7%
6	86	8%	4%
7	92	4%	-1%
8	94	1%	0%
9	90	-4%	5%
10	79	-4%	11%
11	72	1%	15%
12	82	4%	10%
13	86	8%	5%
14	82	8%	6%
15	82	13%	-5%
16	91	4%	-2%



BEAM DETAILS

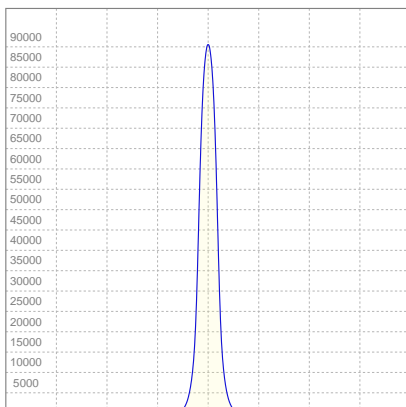
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,1°	28,7°	39,3°	95,1%	93,3%



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	90391lx	22598lx	10043lx	5649lx	3616lx	1607lx	904lx	402lx	226lx	145lx	100lx	56lx	36lx
Footcand.	8398fcd	2099fcd	933fcd	525fcd	336fcd	149fcd	84fcd	37fcd	21fcd	13fcd	9fcd	5fcd	3fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3m	4,5m	6m	7,5m	9m	12m	15m
Beam wid.	1ft	2ft	2,9ft	3,9ft	4,9ft	7,4ft	9,9ft	14,8ft	19,7ft	24,6ft	29,6ft	39,4ft	49,3ft

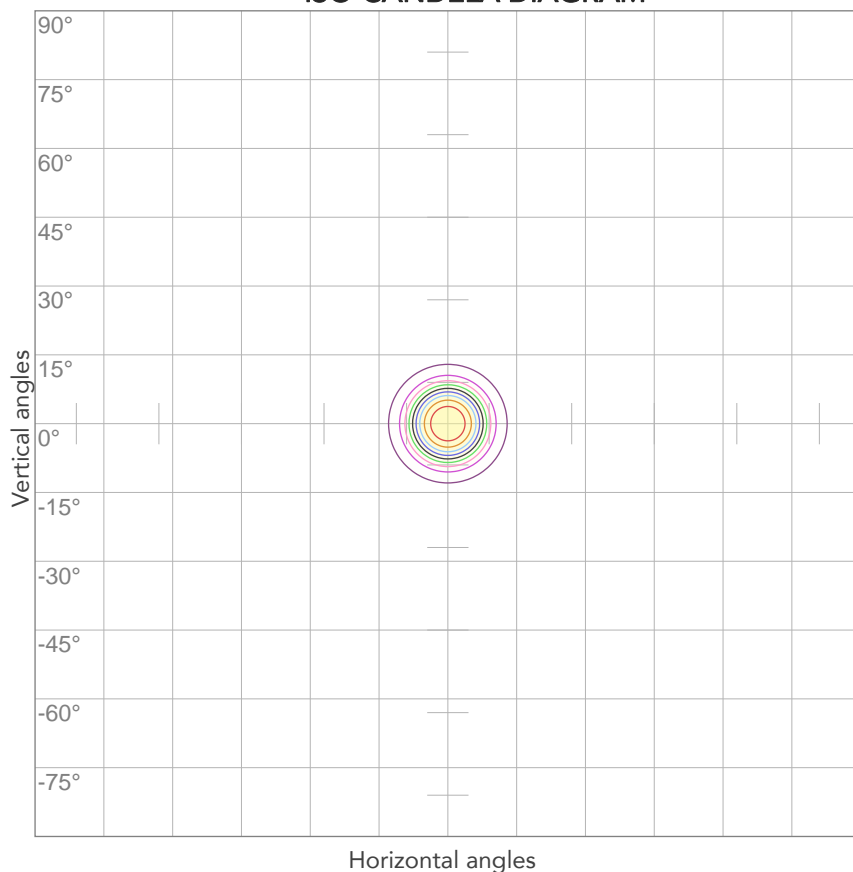
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	1,62A	341,1W	28lm/W

ISO CANDELA DIAGRAM



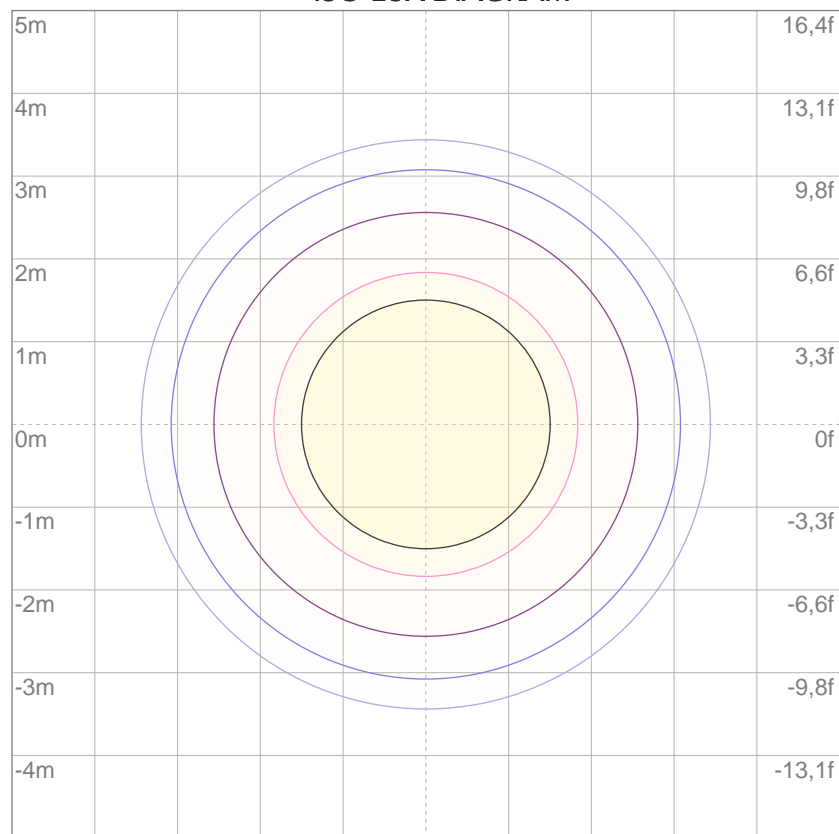
10%	9039 cd
20%	18078 cd
30%	27117 cd
40%	36156 cd
50%	45196 cd
60%	54235 cd
70%	63274 cd
80%	72313 cd

Conditions:

Number of c-planes: 2

Candela at center: 90391 cd

ISO LUX DIAGRAM



3%	27,1 lx
5%	45,2 lx
10%	90,4 lx
30%	271 lx
50%	452 lx

Conditions:

Number of c-planes: 2

Lux at center: 904 lx

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



Total lumen output:

9180 lm

Peak candela output:

12194 cd

Light quality:

CRI: 89,5

Color temperature:

6007 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

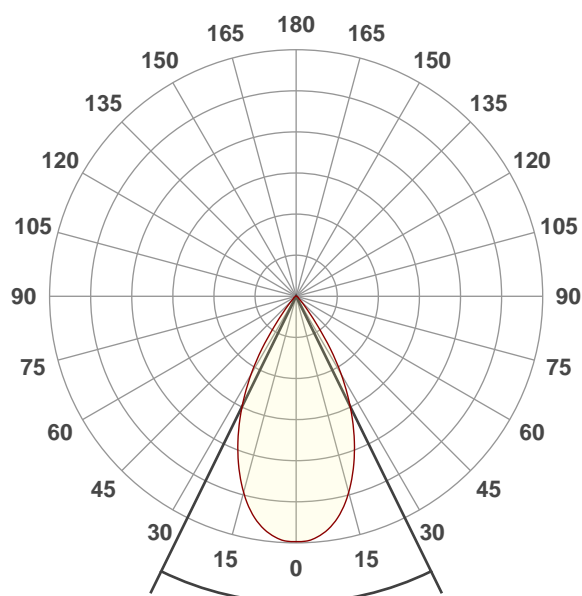
6000K

Operator:

Paolo Carvone

Date and time:

27/01/2020 15:50:11

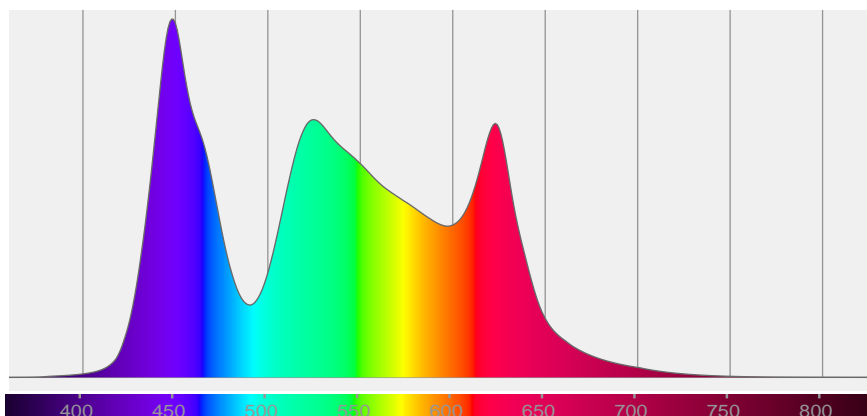


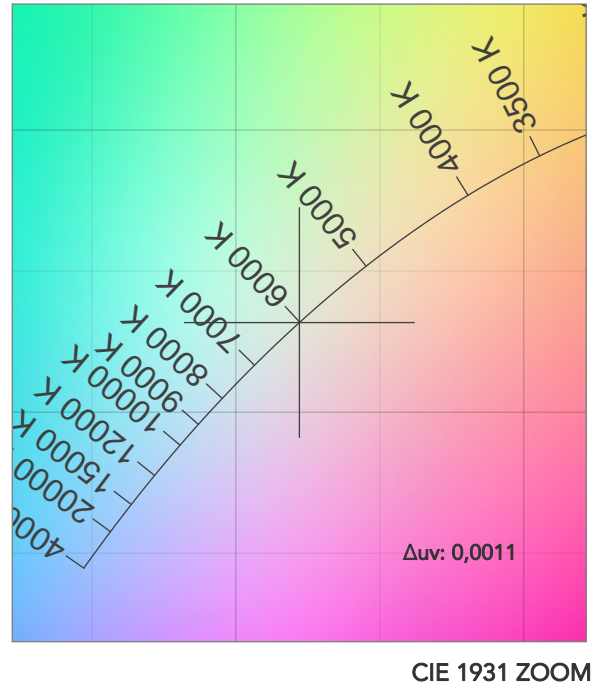
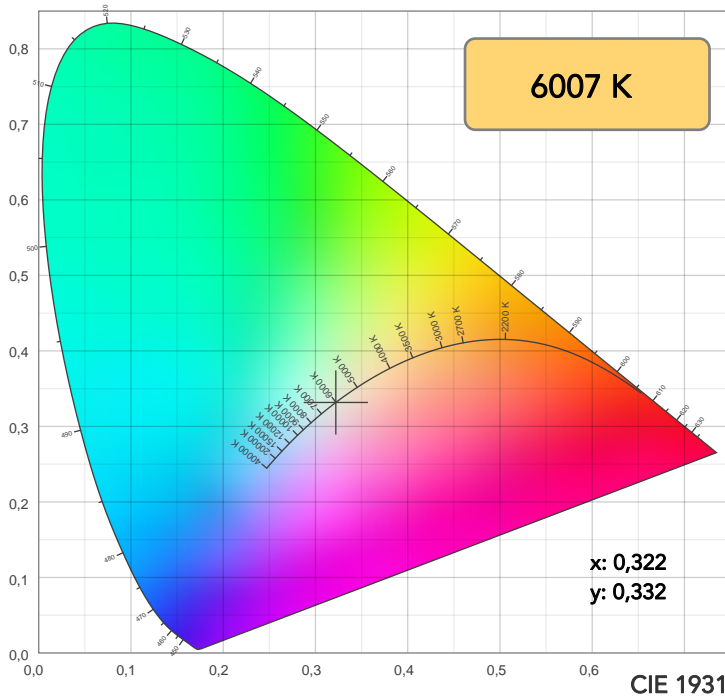
Beam angle 50%: 52,3°

Field angle 10%: 76,2°

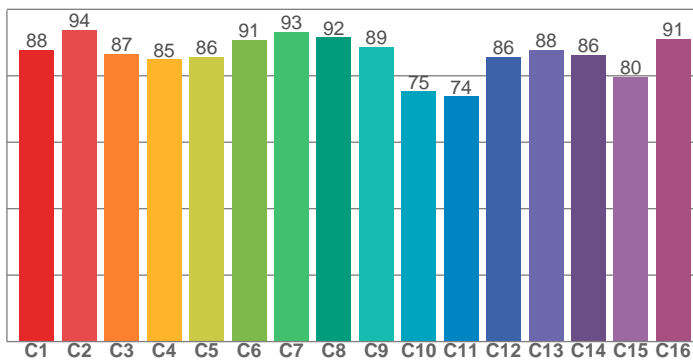
Cut off angle 2.5%: 92,4°

Spectra

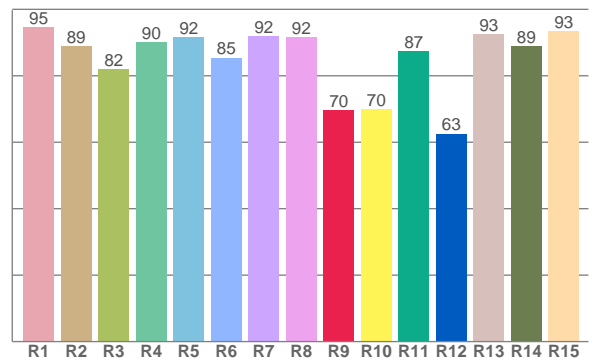




TM30: 86,1



CRI: 89,5 (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
94,6	89,0	81,9	90,1	91,6	85,5	92,0	91,7	69,7	70,0	87,5	62,6	92,6	88,8	93,5

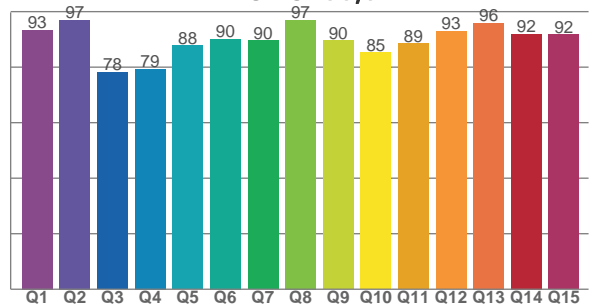
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,9	93,9	86,7	85,0	85,7	90,8	93,3	91,5	88,7	75,3	73,7	85,6	87,8	86,3	79,6	91,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,5	97,1	78,1	79,4	87,8	90,1	89,6	97,0	89,6	85,3	88,5	92,9	95,9	91,9	91,8

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
6007 K	89,5	69,7	86,1	101,5	88,5	86	0,322	0,332	0,0011

TM30 DETAILS

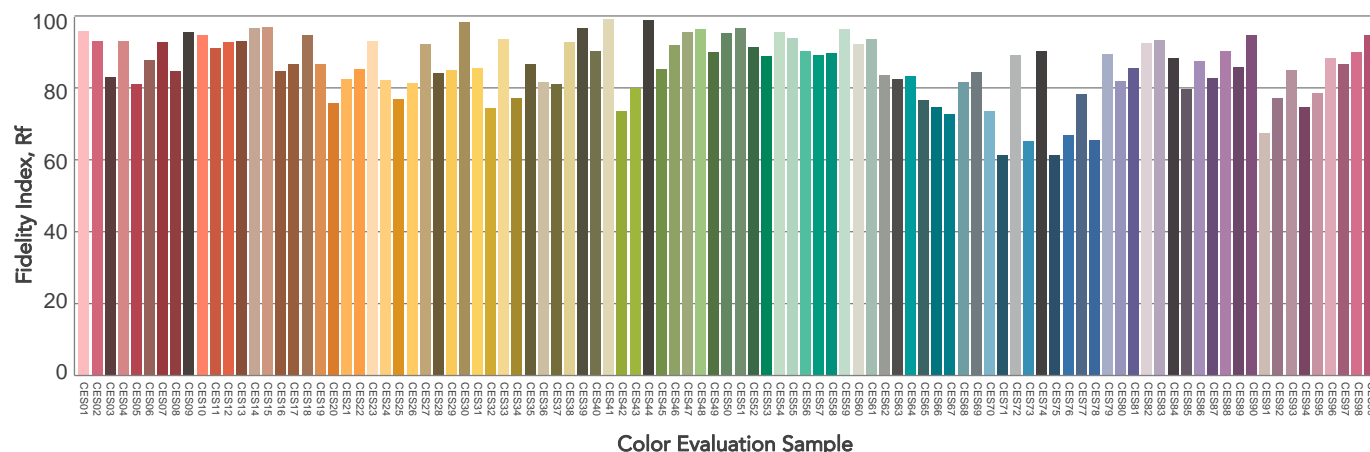
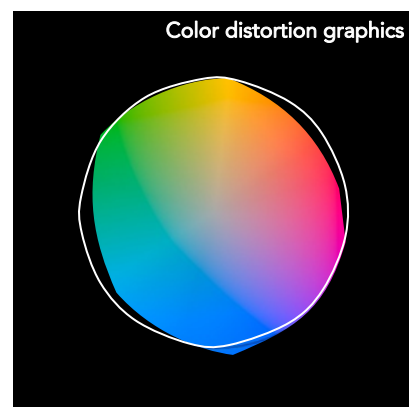
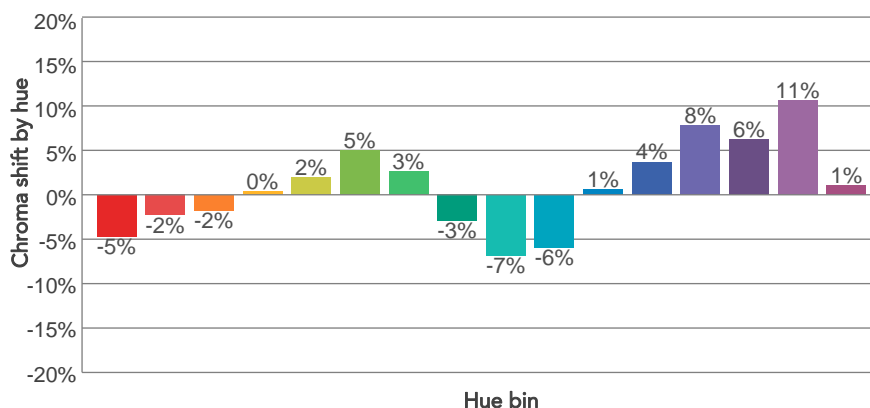
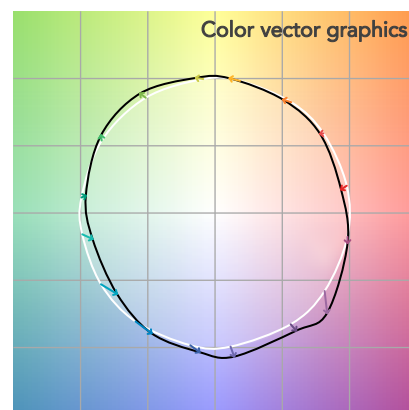
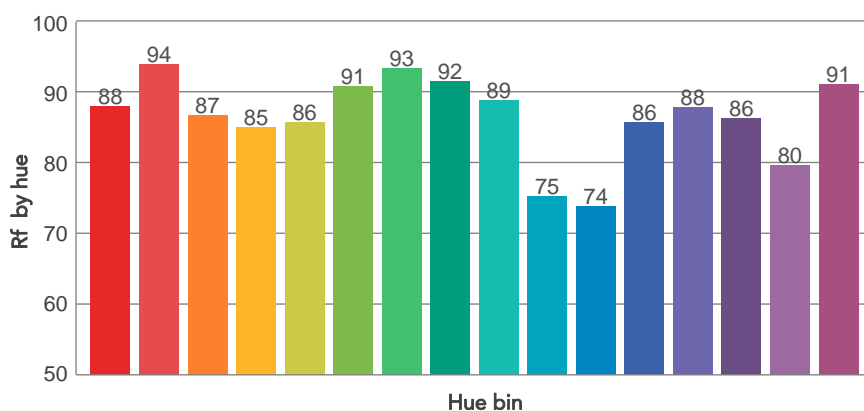
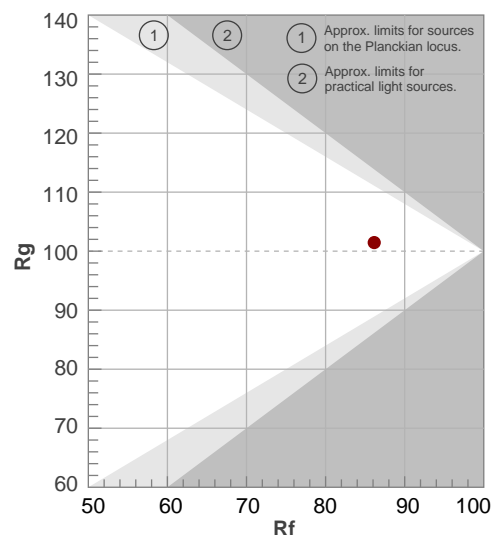
Rf 86,1

Fidelity index Rf

Rg 101,5

Gammut index

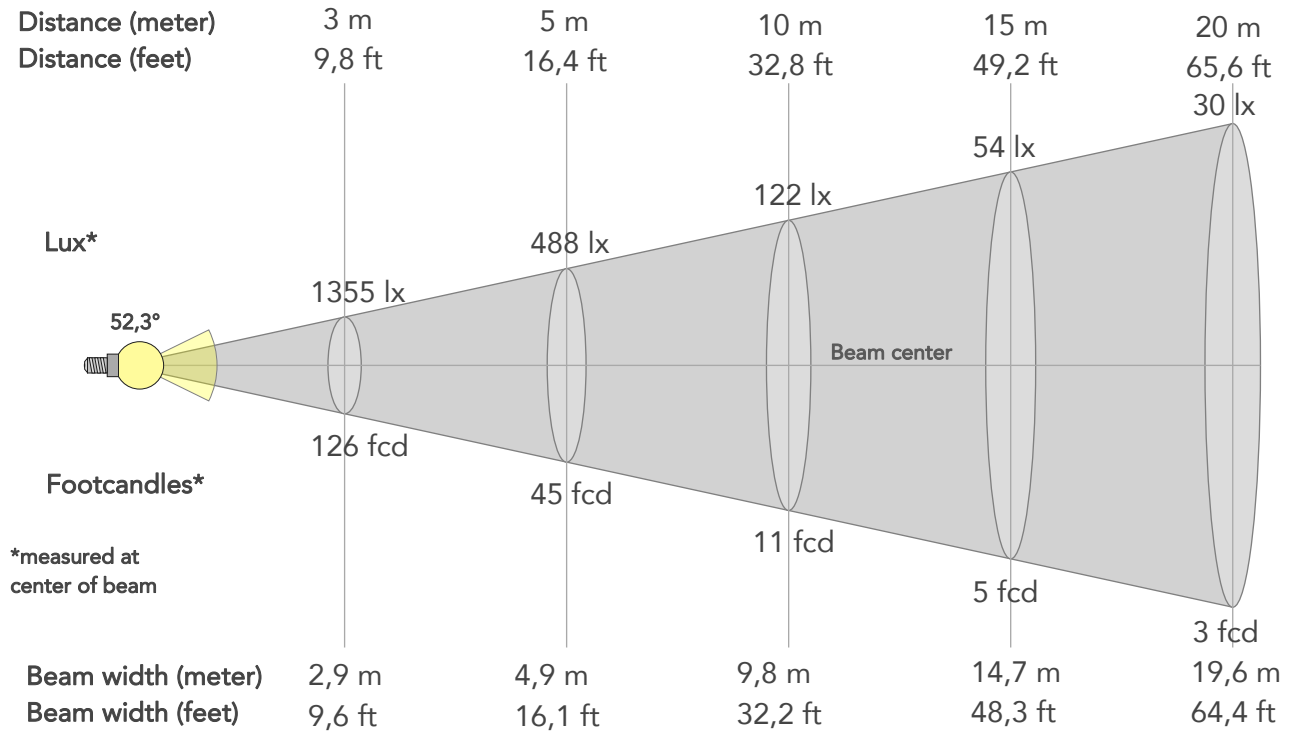
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	-5%	-2%
2	94	-2%	1%
3	87	-2%	6%
4	85	0%	8%
5	86	2%	5%
6	91	5%	2%
7	93	3%	-3%
8	92	-3%	-2%
9	89	-7%	5%
10	75	-6%	13%
11	74	1%	15%
12	86	4%	8%
13	88	8%	1%
14	86	6%	1%
15	80	11%	-13%
16	91	1%	-5%



BEAM DETAILS



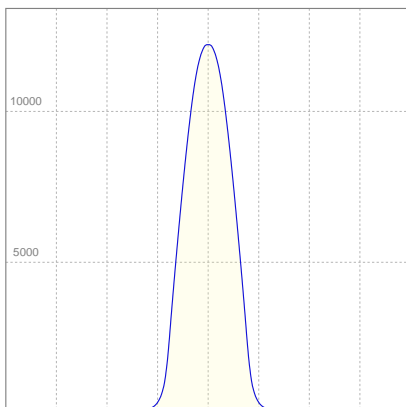
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,3°	76,2°	92,4°	95,7%	93,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	12194lx	3048lx	1355lx	762lx	488lx	217lx	122lx	54lx	30lx	20lx	14lx	8lx	5lx
Footcand.	1133fcd	283fcd	126fcd	71fcd	45fcd	20fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	1m	2m	2,9m	3,9m	4,9m	7,4m	9,8m	14,7m	19,6m	24,5m	29,4m	39,3m	49,1m
Beam wid.	3,2ft	6,5ft	9,6ft	12,9ft	16,1ft	24,1ft	32,2ft	48,3ft	64,4ft	80,5ft	96,6ft	128,8ft	160,9ft

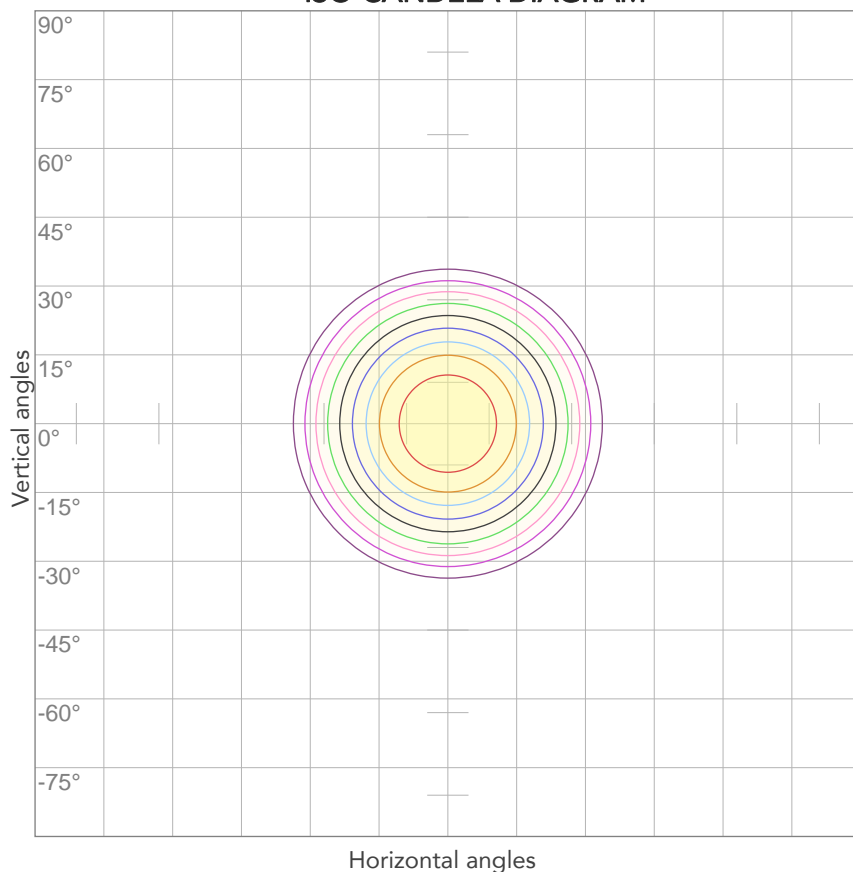
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	1,21A	247,8W	37lm/W

ISO CANDELA DIAGRAM



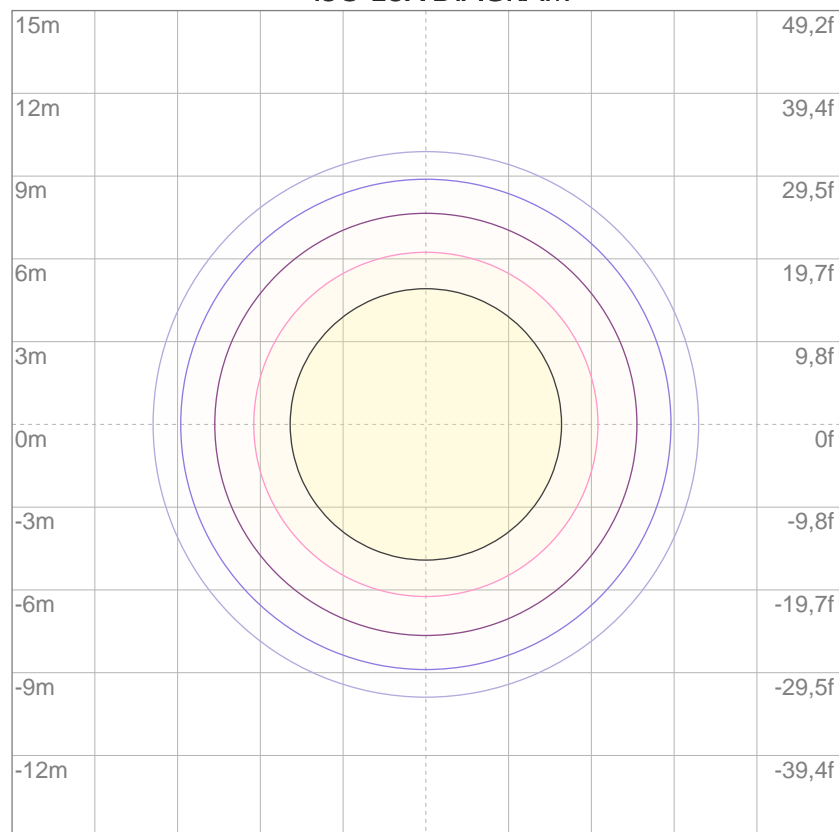
10%	1219 cd
20%	2439 cd
30%	3658 cd
40%	4877 cd
50%	6097 cd
60%	7316 cd
70%	8535 cd
80%	9755 cd

Conditions:

Number of c-planes: 2

Candela at center: 12194 cd

ISO LUX DIAGRAM



3%	3,66 lx
5%	6,10 lx
10%	12,2 lx
30%	36,6 lx
50%	61,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 122 lx

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



Total lumen output:

12584 lm

Peak candela output:

43530 cd

Light quality:

CRI: 90,3

Color temperature:

6007 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

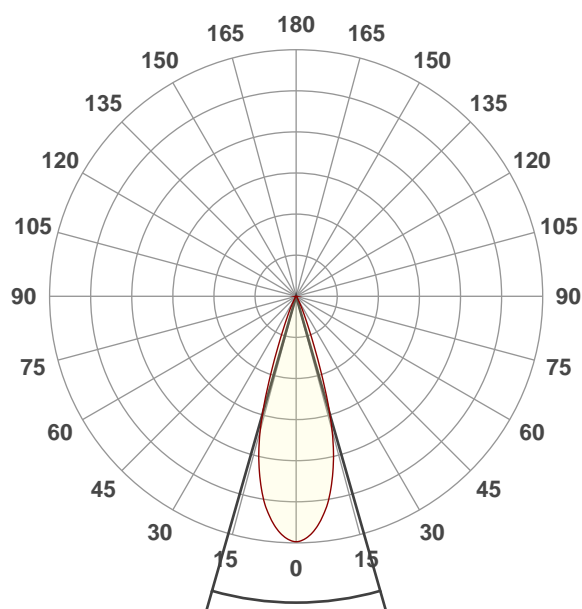
6000K

Operator:

Paolo Carvone

Date and time:

30/01/2020 10:43:34

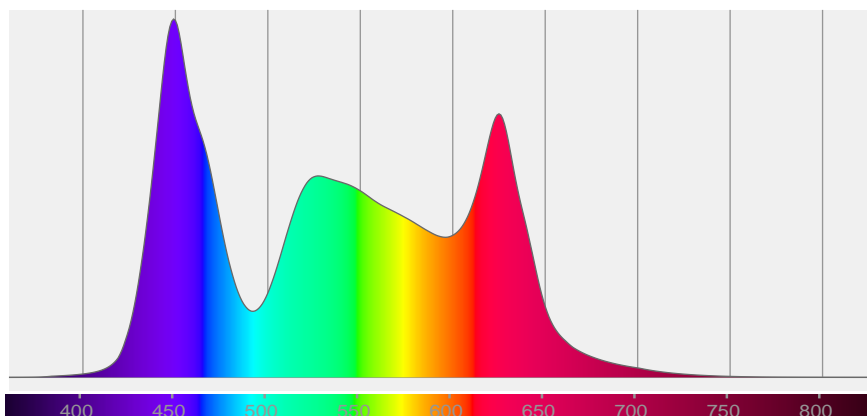


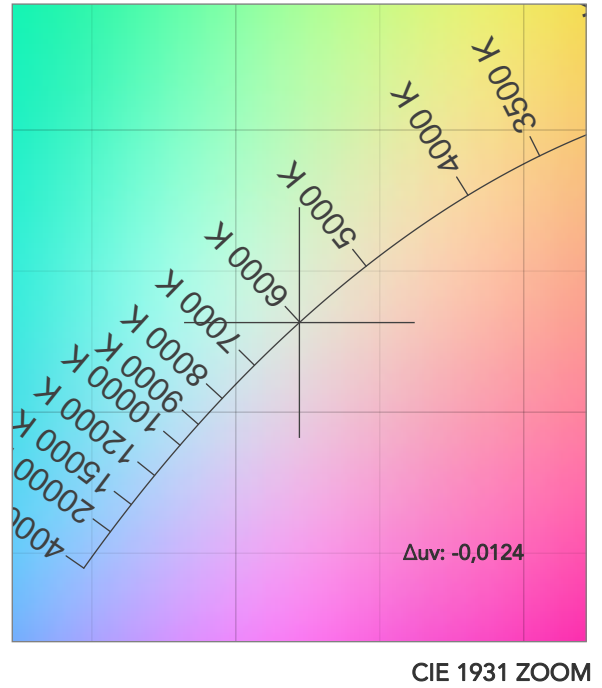
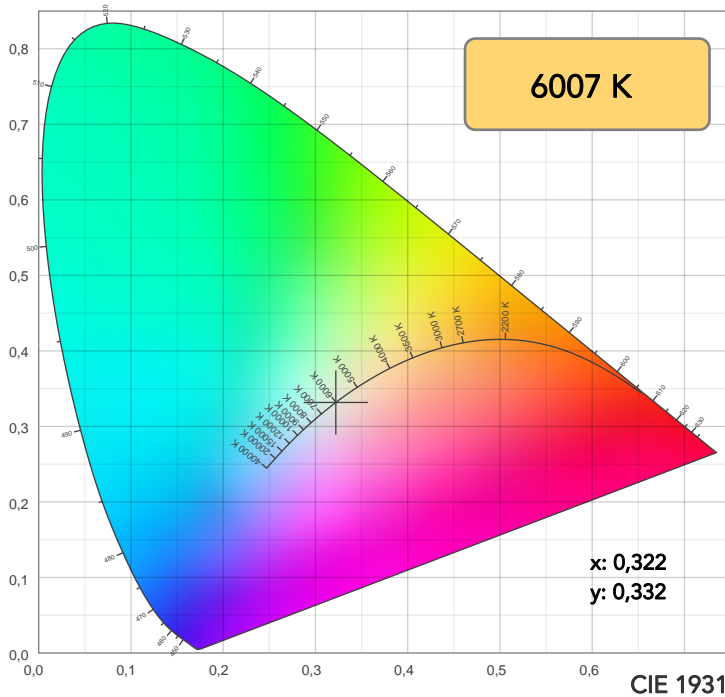
Beam angle 50%: 31,9°

Field angle 10%: 45,7°

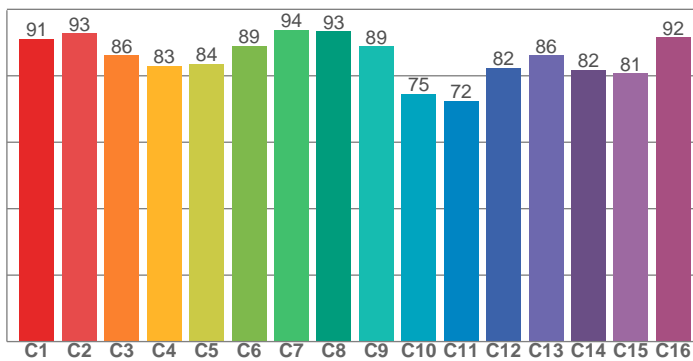
Cut off angle 2.5%: 57,5°

Spectra

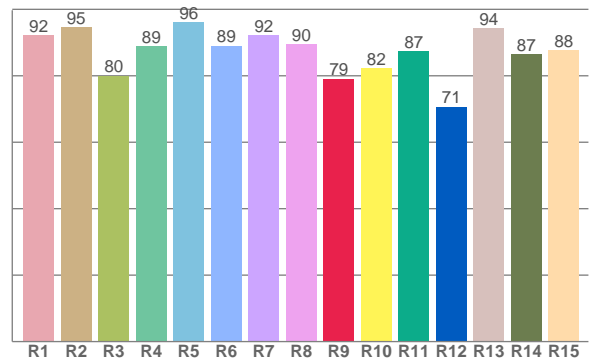




TM30: 85,5



CRI: 90,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,1	94,6	80,0	88,9	96,0	89,0	92,2	89,5	79,1	82,3	87,4	70,7	94,4	86,6	87,7

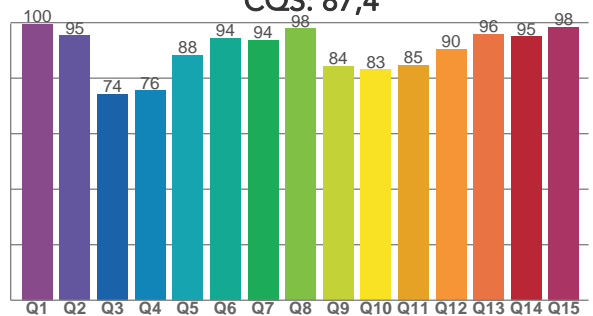
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,1	92,8	86,2	83,0	83,5	89,0	93,8	93,4	88,8	74,6	72,4	82,3	86,1	81,8	80,8	91,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,5	95,4	74,3	75,6	88,3	94,3	93,7	97,8	84,4	83,1	84,7	90,4	95,9	95,0	98,5

CQS: 87,4



COLOR PARAMETERS

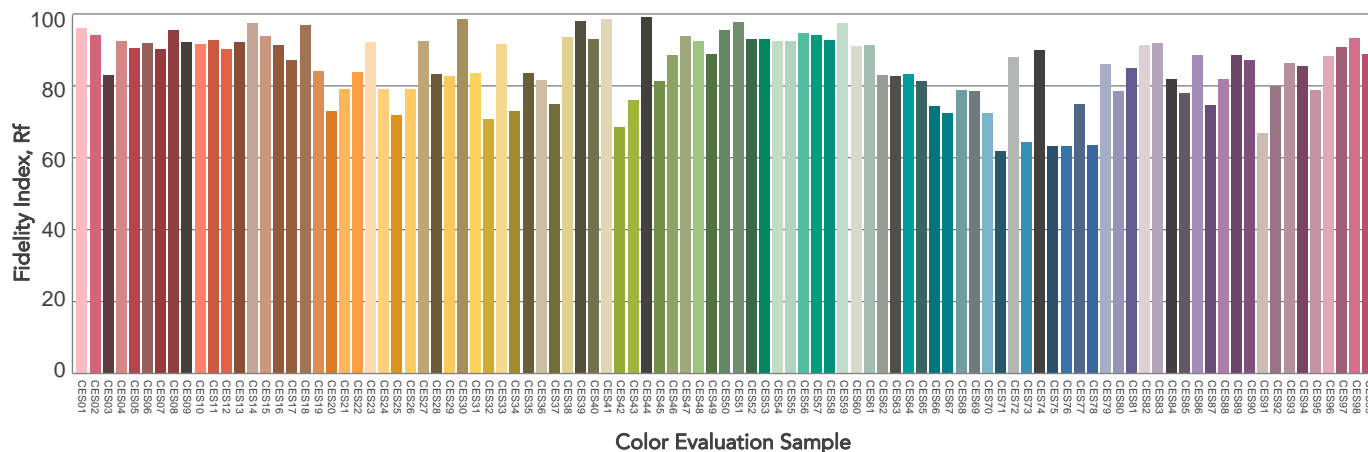
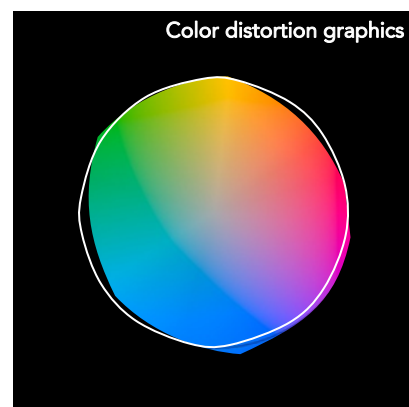
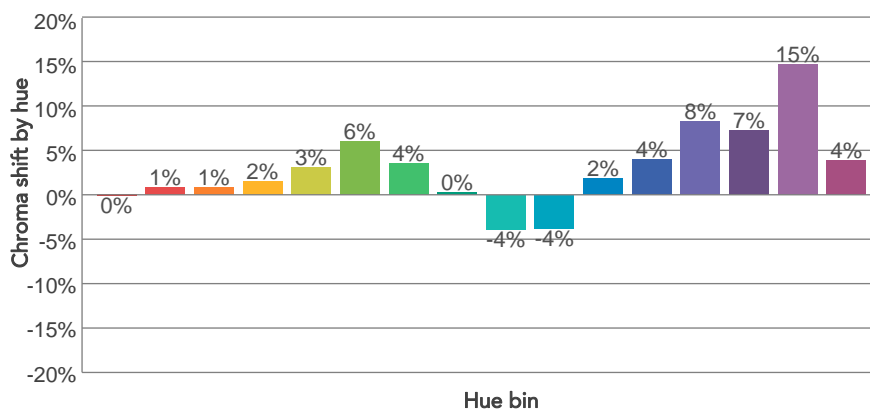
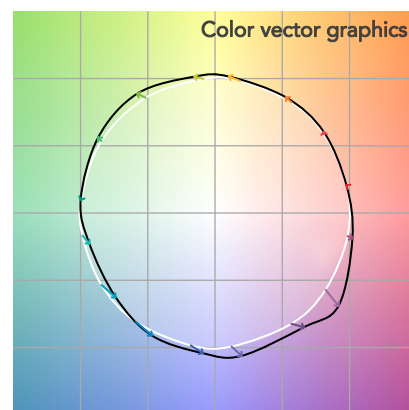
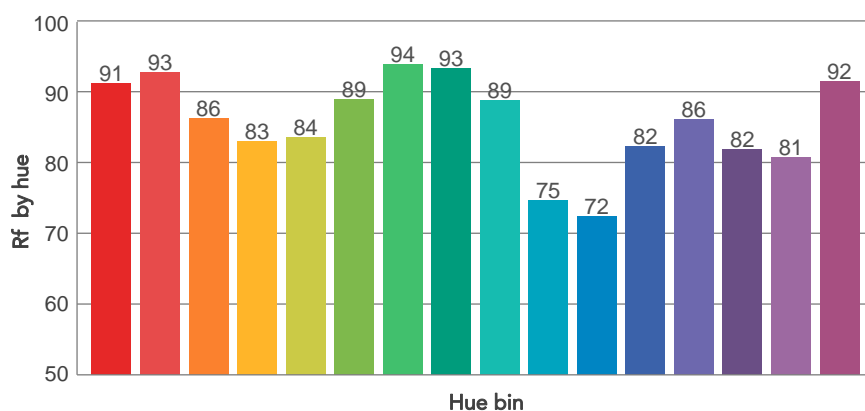
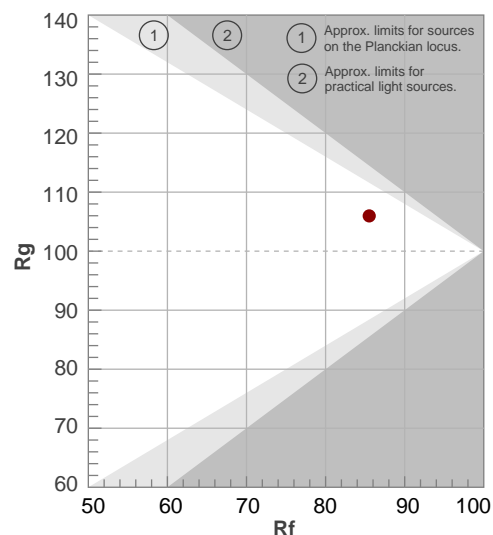
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6007 K	90,3	79,1	85,5	106,0	87,4	87	0,322	0,332	-0,0124

TM30 DETAILS

Rf 85,5
Fidelity index Rf

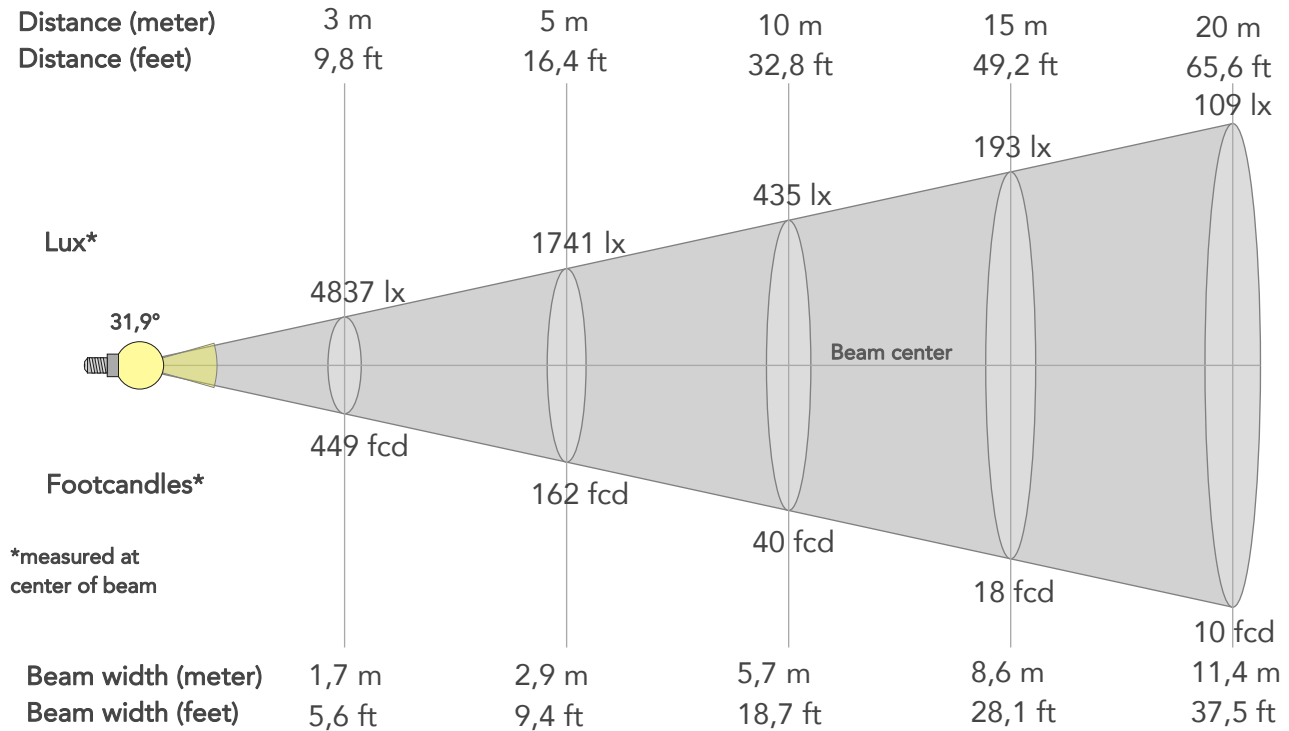
Rg 106,0
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	0%	0%
2	93	1%	2%
3	86	1%	6%
4	83	2%	9%
5	84	3%	6%
6	89	6%	3%
7	94	4%	-1%
8	93	0%	1%
9	89	-4%	7%
10	75	-4%	13%
11	72	2%	15%
12	82	4%	10%
13	86	8%	6%
14	82	7%	6%
15	81	15%	-5%
16	92	4%	-1%



BEAM DETAILS

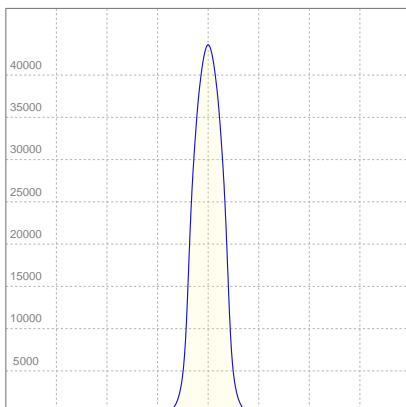
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,9°	45,7°	57,5°	94,7%	93,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	43530lx	10882lx	4837lx	2721lx	1741lx	774lx	435lx	193lx	109lx	70lx	48lx	27lx	17lx
Footcand.	4044fcd	1011fcd	449fcd	253fcd	162fcd	72fcd	40fcd	18fcd	10fcd	6fcd	4fcd	3fcd	2fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,9m	4,3m	5,7m	8,6m	11,4m	14,3m	17,1m	22,8m	28,6m
Beam wid.	1,9ft	3,8ft	5,6ft	7,5ft	9,4ft	14ft	18,7ft	28,1ft	37,5ft	46,8ft	56,2ft	74,9ft	93,7ft

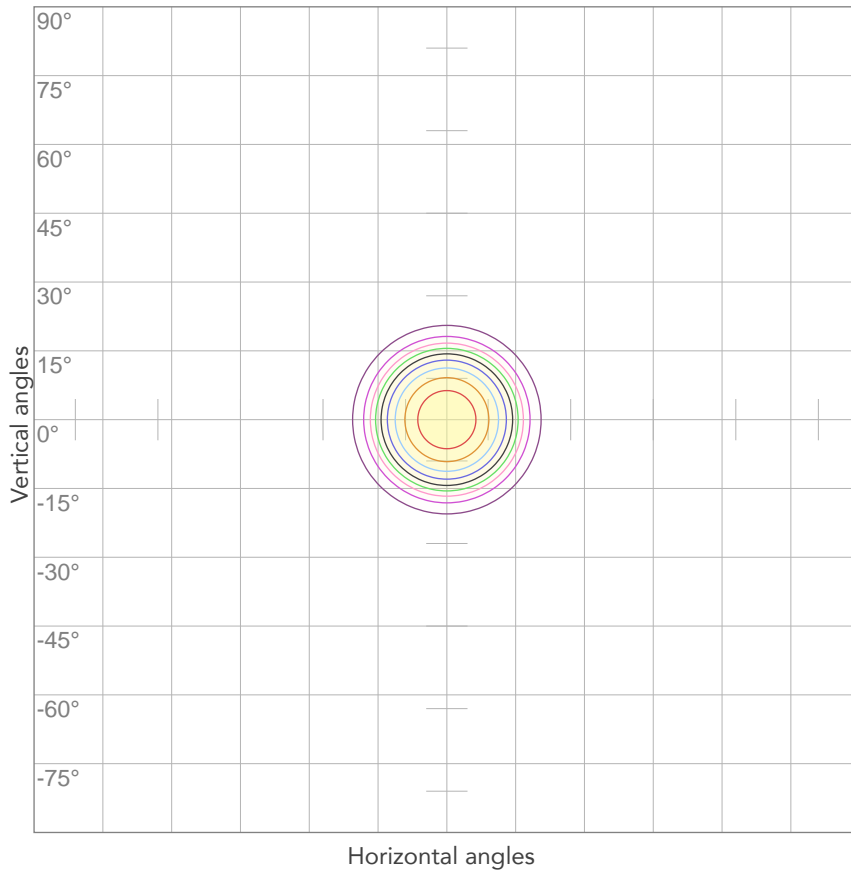
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	1,64A	344,2W	37lm/W

ISO CANDELA DIAGRAM



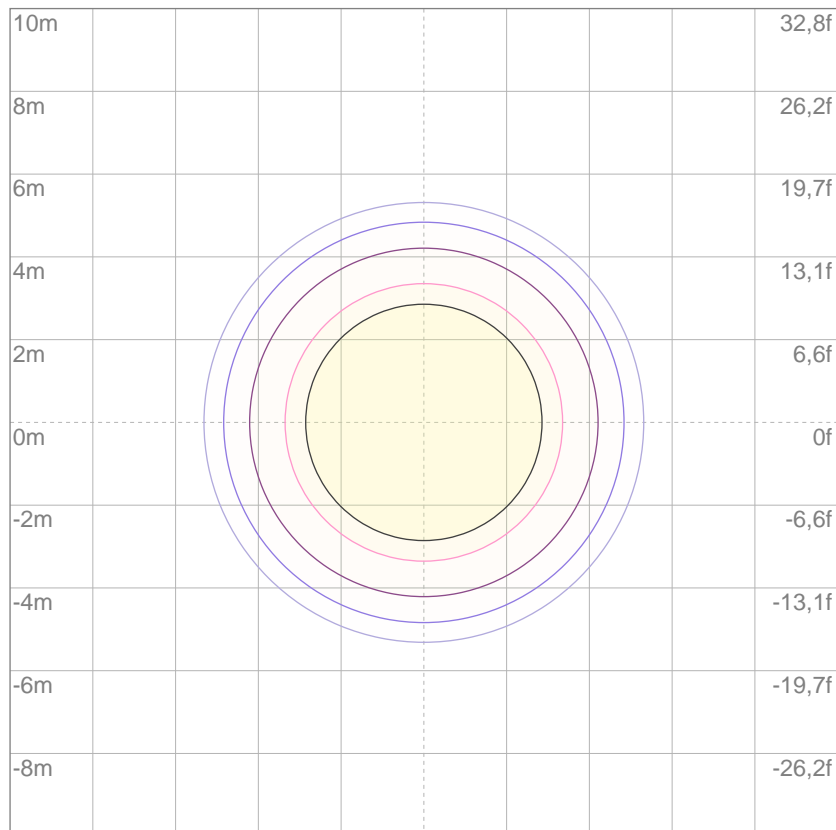
10%	4353 cd
20%	8706 cd
30%	13059 cd
40%	17412 cd
50%	21765 cd
60%	26118 cd
70%	30471 cd
80%	34824 cd

Conditions:

Number of c-planes: 2

Candela at center: 43530 cd

ISO LUX DIAGRAM



3%	13,1 lx
5%	21,8 lx
10%	43,5 lx
30%	131 lx
50%	218 lx

Conditions:

Number of c-planes: 2

Lux at center: 435 lx

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



Total lumen output:

9420 lm

Peak candela output:

88916 cd

Light quality:

CRI: 90,8

Color temperature:

6007 K

PRODUCT NAME:

ECLFR2KTW

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

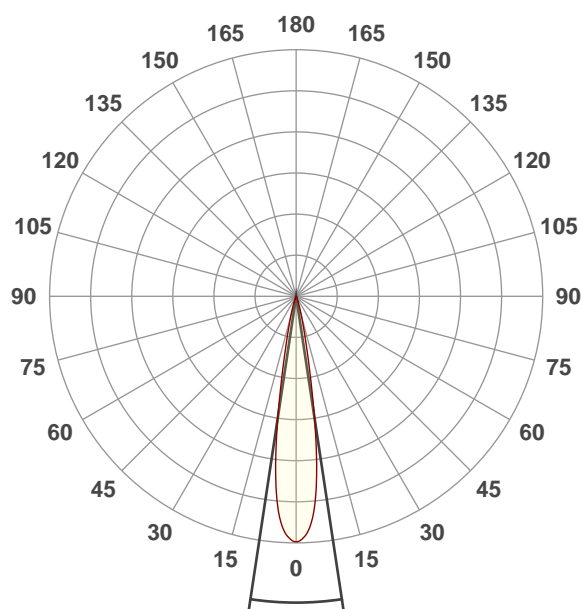
6000K

Operator:

Paolo Carvone

Date and time:

30/01/2020 11:08:46

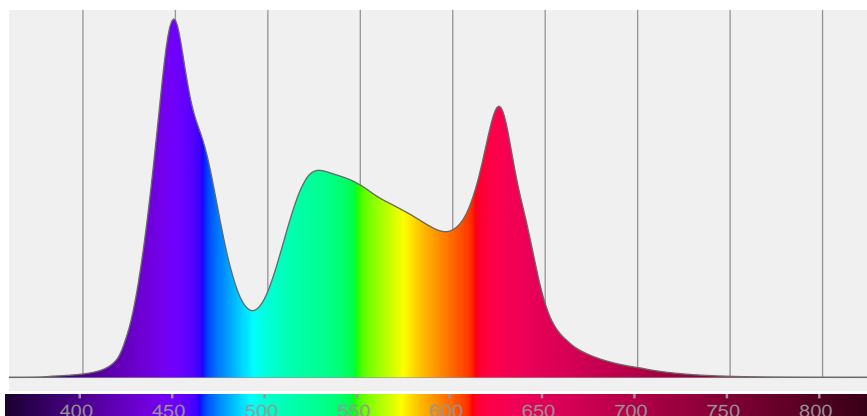


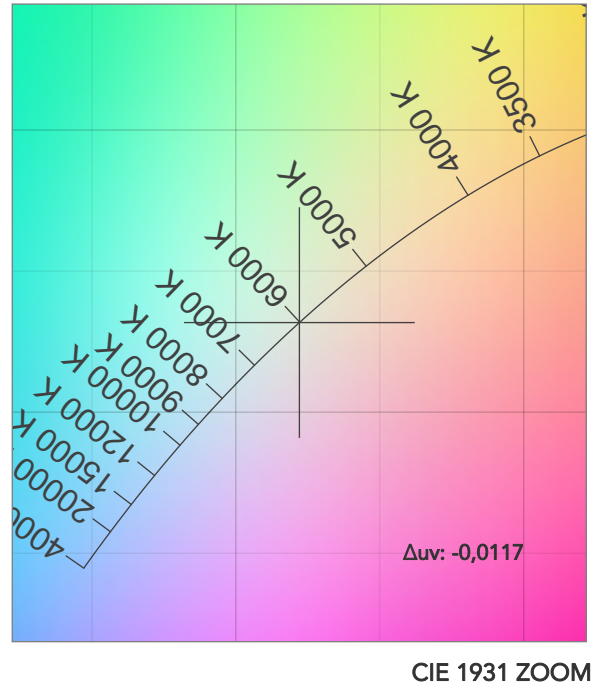
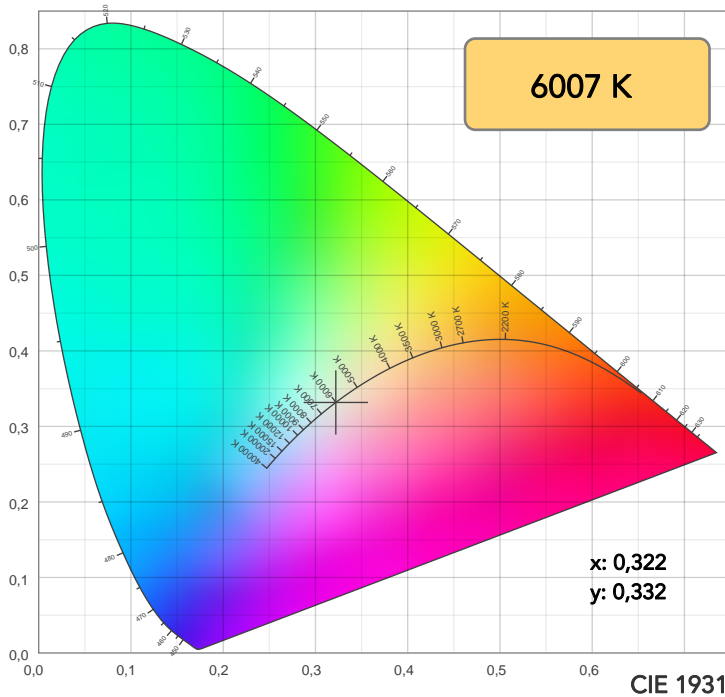
Beam angle 50%: 17,2°

Field angle 10%: 28,8°

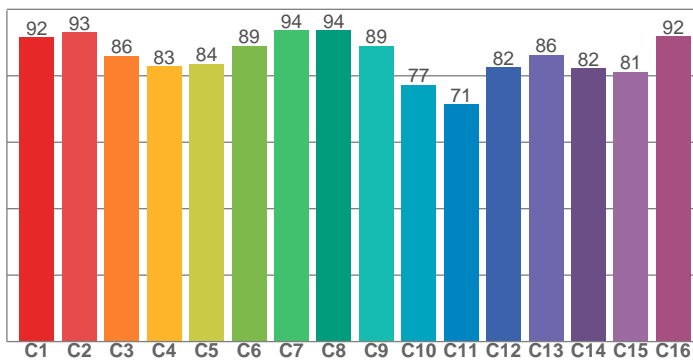
Cut off angle 2.5%: 39,3°

Spectra

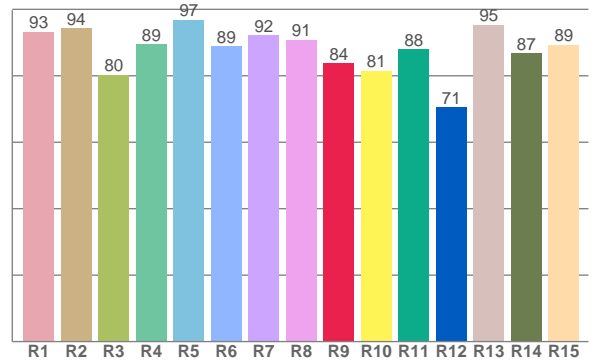




TM30: 85,6



CRI: 90,8 (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
93,3	94,4	80,3	89,4	96,9	89,0	92,2	90,9	83,7	81,5	88,0	70,6	95,3	86,8	89,3

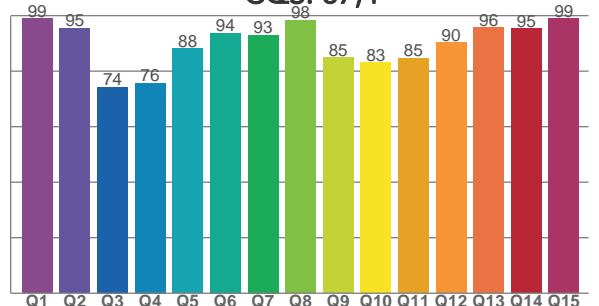
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,5	93,0	86,0	82,8	83,6	89,0	93,7	93,7	89,1	77,3	71,4	82,5	86,3	82,2	81,1	91,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,9	95,4	74,2	75,7	88,2	93,8	93,0	98,3	84,8	83,1	84,6	90,2	95,8	95,4	99,0

CQS: 87,4



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6007 K	90,8	83,7	85,6	105,8	87,4	87	0,322	0,332	-0,0117

TM30 DETAILS

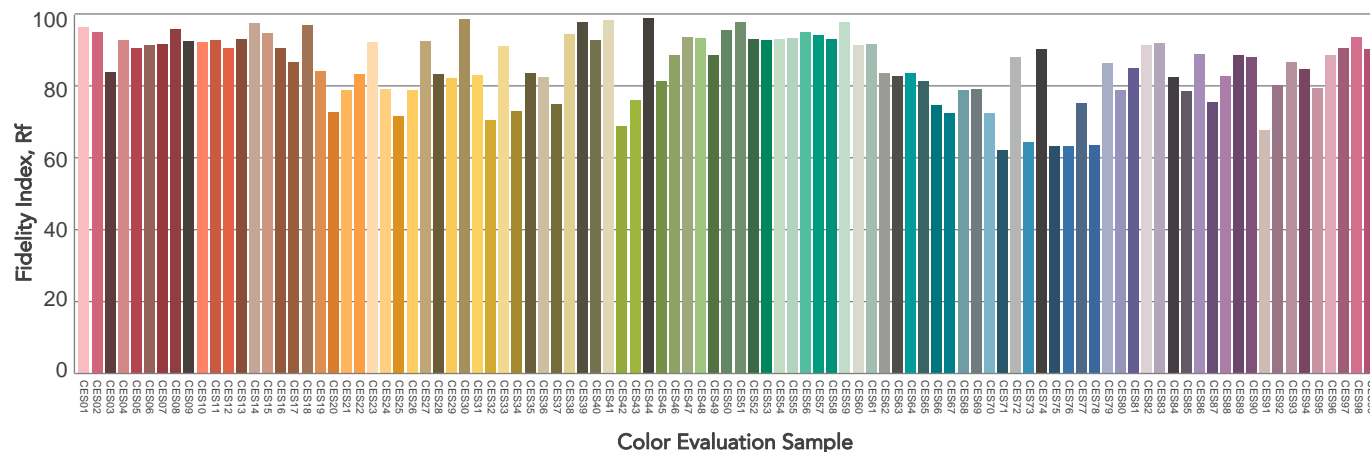
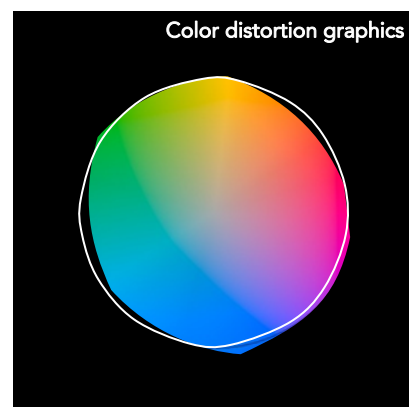
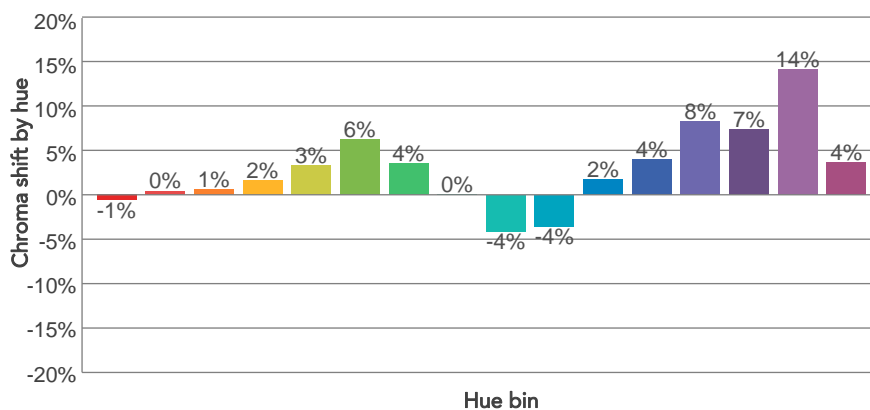
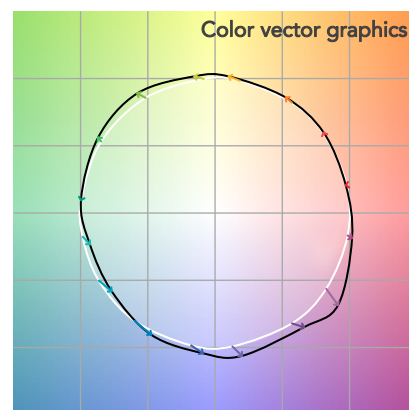
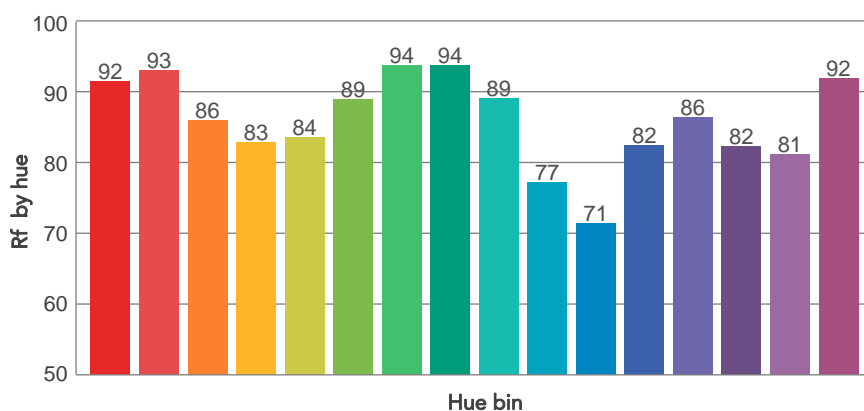
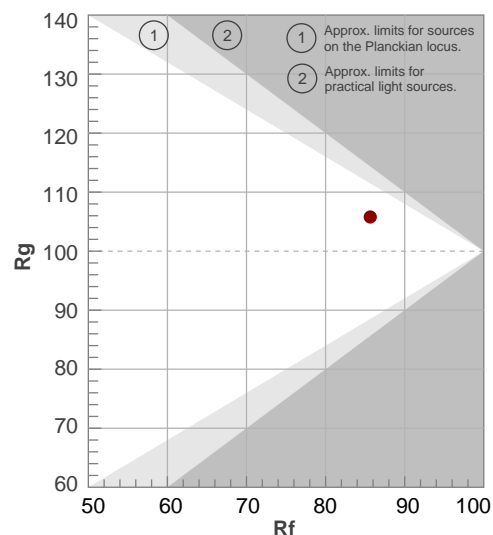
Rf 85,6

Fidelity index Rf

Rg 105,8

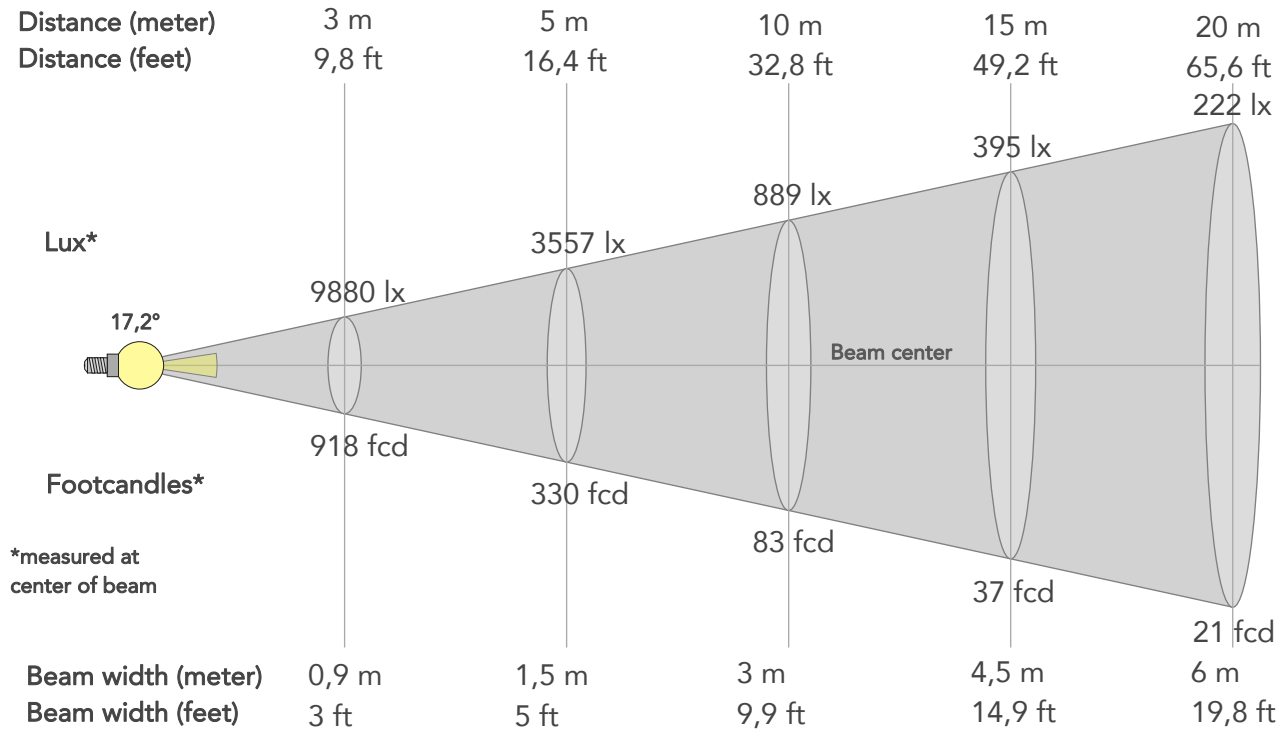
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	-1%	0%
2	93	0%	2%
3	86	1%	6%
4	83	2%	9%
5	84	3%	6%
6	89	6%	3%
7	94	4%	-1%
8	94	0%	1%
9	89	-4%	7%
10	77	-4%	12%
11	71	2%	16%
12	82	4%	10%
13	86	8%	6%
14	82	7%	6%
15	81	14%	-5%
16	92	4%	-1%



BEAM DETAILS

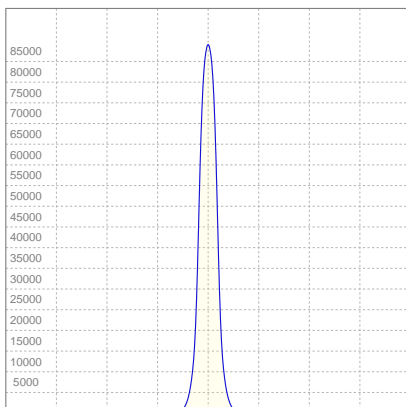
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,2°	28,8°	39,3°	95,2%	93,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	88916lx	22229lx	9880lx	5557lx	3557lx	1581lx	889lx	395lx	222lx	142lx	99lx	56lx	36lx
Footcand.	8261fcd	2065fcd	918fcd	516fcd	330fcd	147fcd	83fcd	37fcd	21fcd	13fcd	9fcd	5fcd	3fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3m	4,5m	6m	7,5m	9,1m	12,1m	15,1m
Beam wid.	1ft	2ft	3ft	4ft	5ft	7,4ft	9,9ft	14,9ft	19,8ft	24,8ft	29,7ft	39,6ft	49,5ft

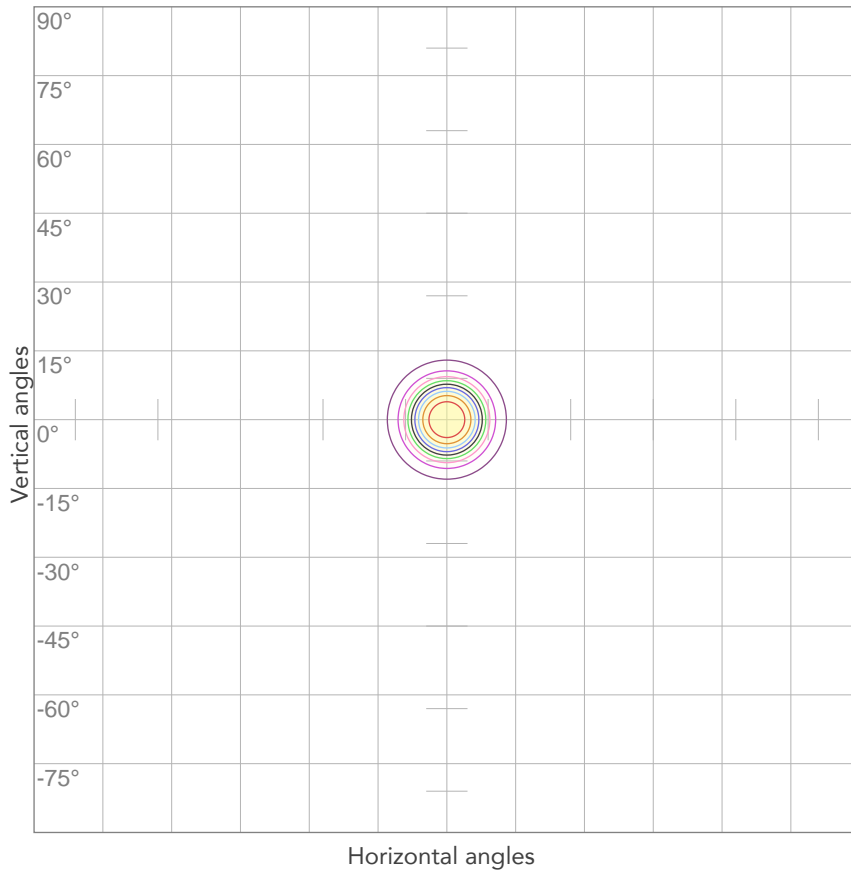
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	1,62A	339,4W	28lm/W

ISO CANDELA DIAGRAM



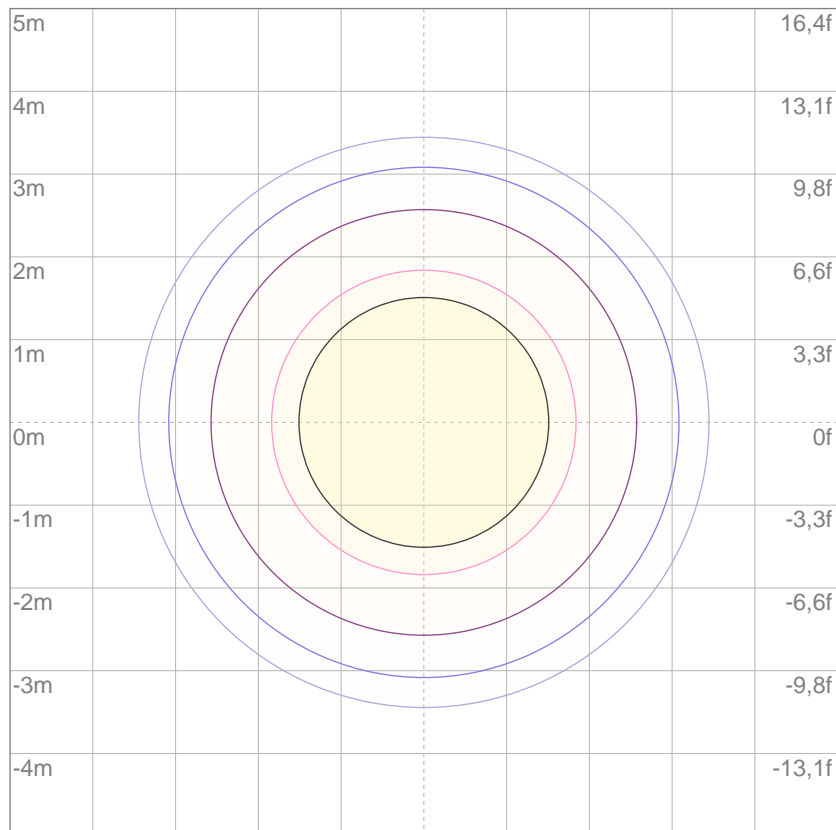
10%	8892 cd
20%	17783 cd
30%	26675 cd
40%	35566 cd
50%	44458 cd
60%	53350 cd
70%	62241 cd
80%	71133 cd

Conditions:

Number of c-planes: 2

Candela at center: 88916 cd

ISO LUX DIAGRAM



3%	26,7 lx
5%	44,5 lx
10%	88,9 lx
30%	267 lx
50%	445 lx

Conditions:

Number of c-planes: 2

Lux at center: 889 lx

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