



Photometric Test Report



ECLPENDANT FC

200W RGB+Warm White

innovative pendant light

CONTENTS

Table of contents	2
Testing process	4
Color preset Full on	
Beam angle 20°	5
Beam angle 40°	8
Beam angle 60°	11
Color preset Red	
Beam angle 20°	14
Beam angle 40°	17
Beam angle 60°	20
Color preset Green	
Beam angle 20°	23
Beam angle 40°	26
Beam angle 60°	29
Color preset Blue	
Beam angle 20°	32
Beam angle 40°	35
Beam angle 60°	38
Color preset White	
Beam angle 20°	41
Beam angle 40°	44
Beam angle 60°	47
Color temperature 2800K	
Beam angle 20°	50
Beam angle 40°	55
Beam angle 60°	60
Color temperature 3200K	
Beam angle 20°	65
Beam angle 40°	70
Beam angle 60°	75

Color temperature 4000K

Beam angle 20° 80

Beam angle 40° 85

Beam angle 60° 90

Color temperature 5600K

Beam angle 20° 95

Beam angle 40° 100

Beam angle 60° 105

Color temperature 6000K

Beam angle 20° 110

Beam angle 40° 115

Beam angle 60° 120

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:

10168 lm

Peak candela output:

43924 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

20°

Target:

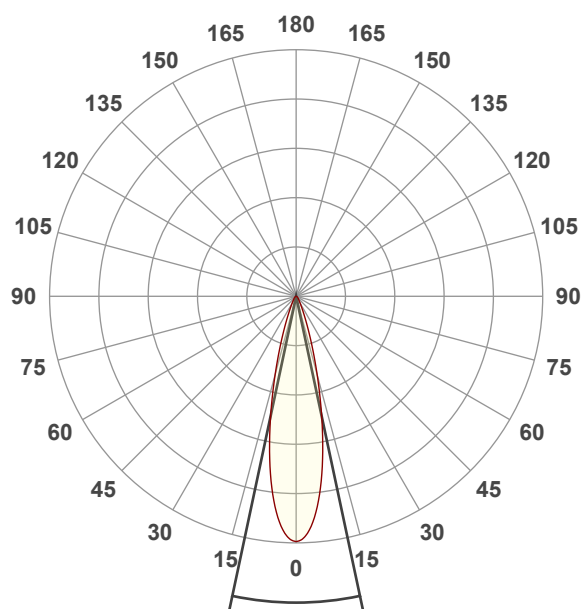
Full On

Operator:

Paolo Carvone

Date and time:

13/10/2022 16:39:04

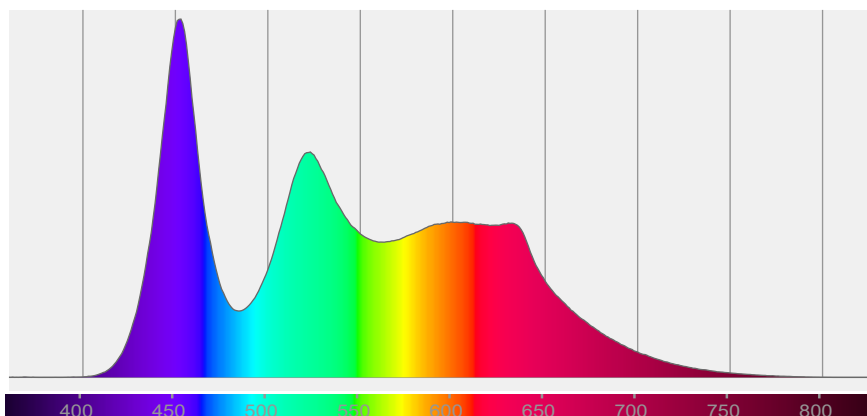


Beam angle 50%: 24°

Field angle 10%: 44,2°

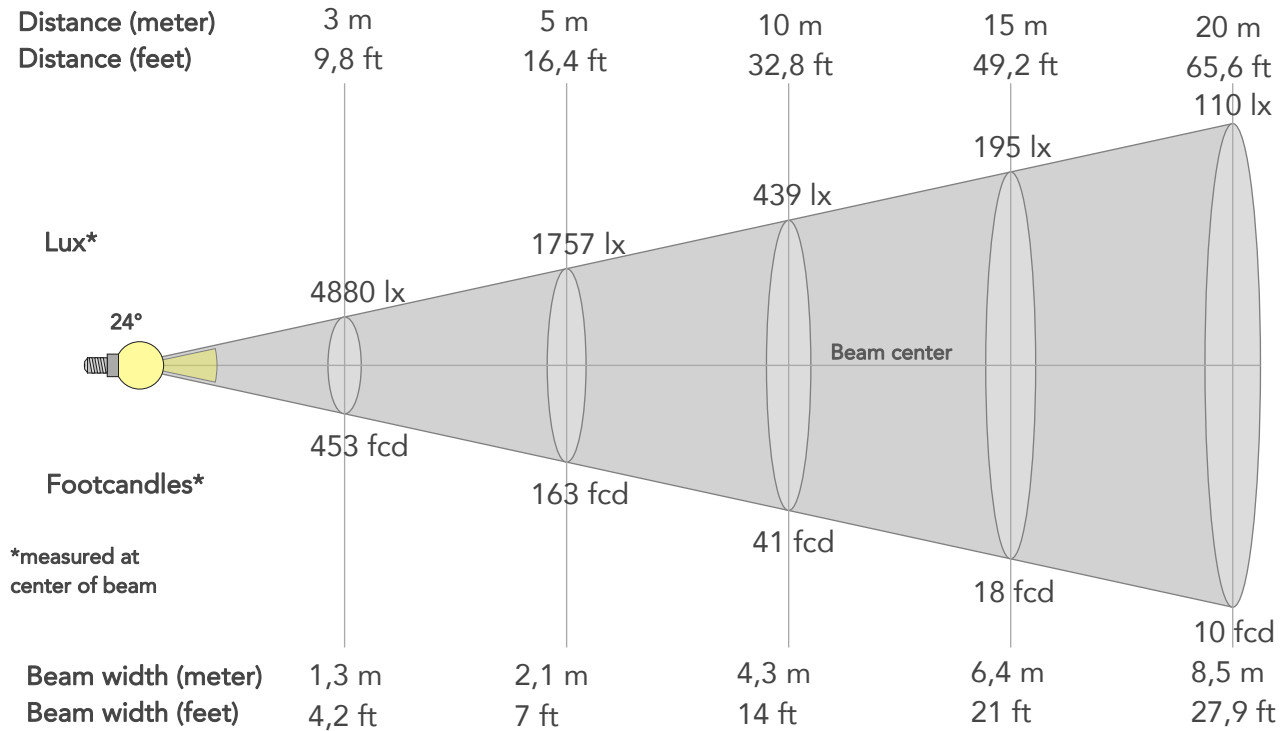
Cut off angle 2.5%: 65,6°

Spectra



BEAM DETAILS

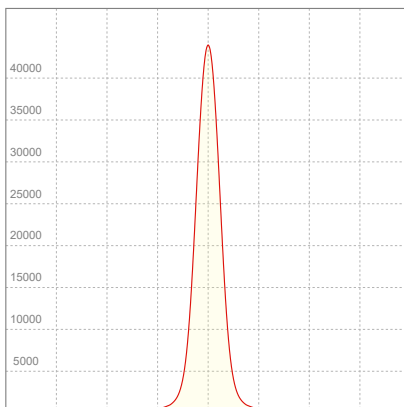
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24°	44,2°	65,6°	98,7%	94,3%



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	43924lx	10981lx	4880lx	2745lx	1757lx	781lx	439lx	195lx	110lx	70lx	49lx	27lx	18lx
Footcand.	4081fcd	1020fcd	453fcd	255fcd	163fcd	73fcd	41fcd	18fcd	10fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,4m	0,9m	1,3m	1,7m	2,1m	3,2m	4,3m	6,4m	8,5m	10,6m	12,8m	17m	21,3m
Beam wid.	1,4ft	2,8ft	4,2ft	5,6ft	7ft	10,5ft	14ft	21ft	27,9ft	34,9ft	41,9ft	55,9ft	69,9ft

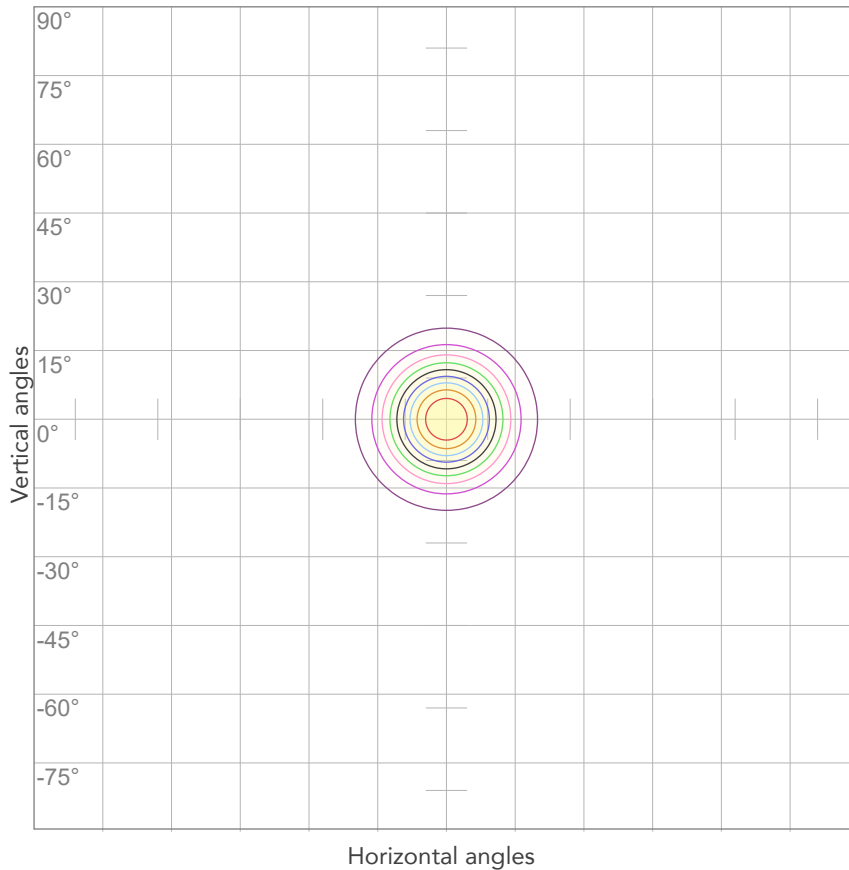
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,923A	200,7W	51lm/W
Power FC			
0,97			

ISO CANDELA DIAGRAM



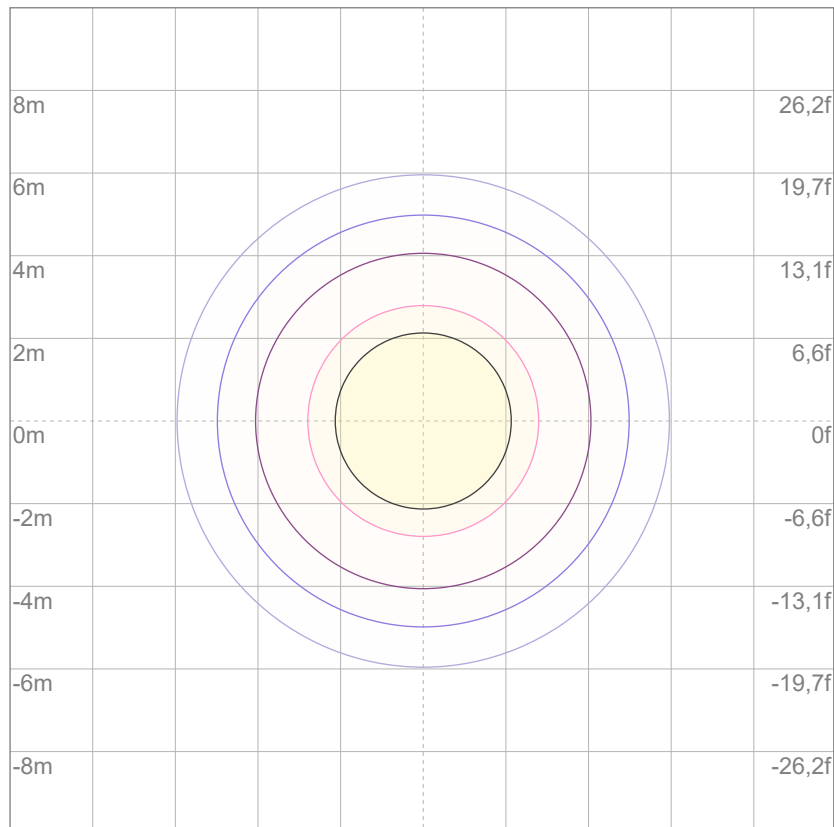
10%	4392 cd
20%	8785 cd
30%	13177 cd
40%	17569 cd
50%	21962 cd
60%	26354 cd
70%	30747 cd
80%	35139 cd

Conditions:

Number of c-planes: 2

Candela at center: 43924 cd

ISO LUX DIAGRAM



3%	13,2 lx
5%	22,0 lx
10%	43,9 lx
30%	132 lx
50%	220 lx

Conditions:

Number of c-planes: 2

Lux at center: 439 lx

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



Total lumen output:

8329 lm

Peak candela output:

14804 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

40°

Target:

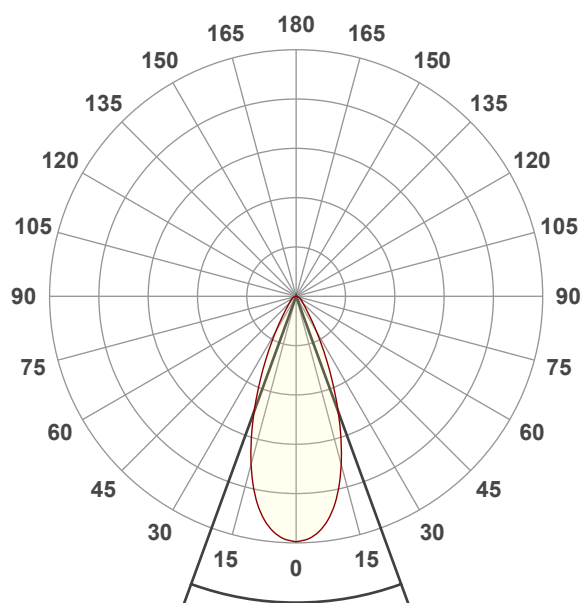
Full On

Operator:

Paolo Carvone

Date and time:

18/10/2022 14:56:28

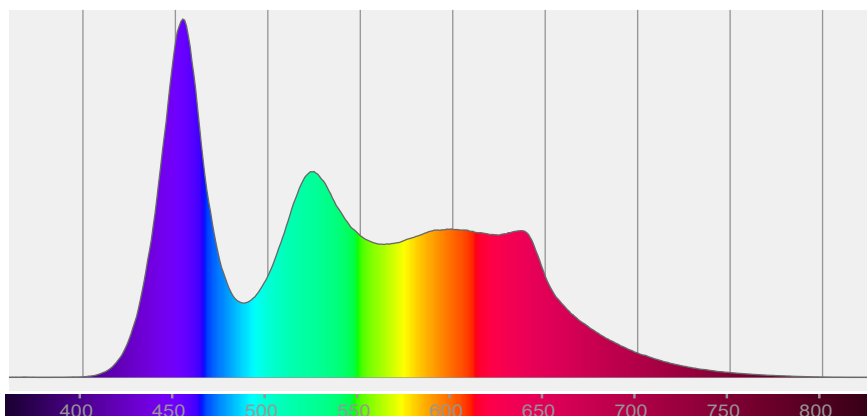


Beam angle 50%: 40,1°

Field angle 10%: 68,5°

Cut off angle 2.5%: 110,5°

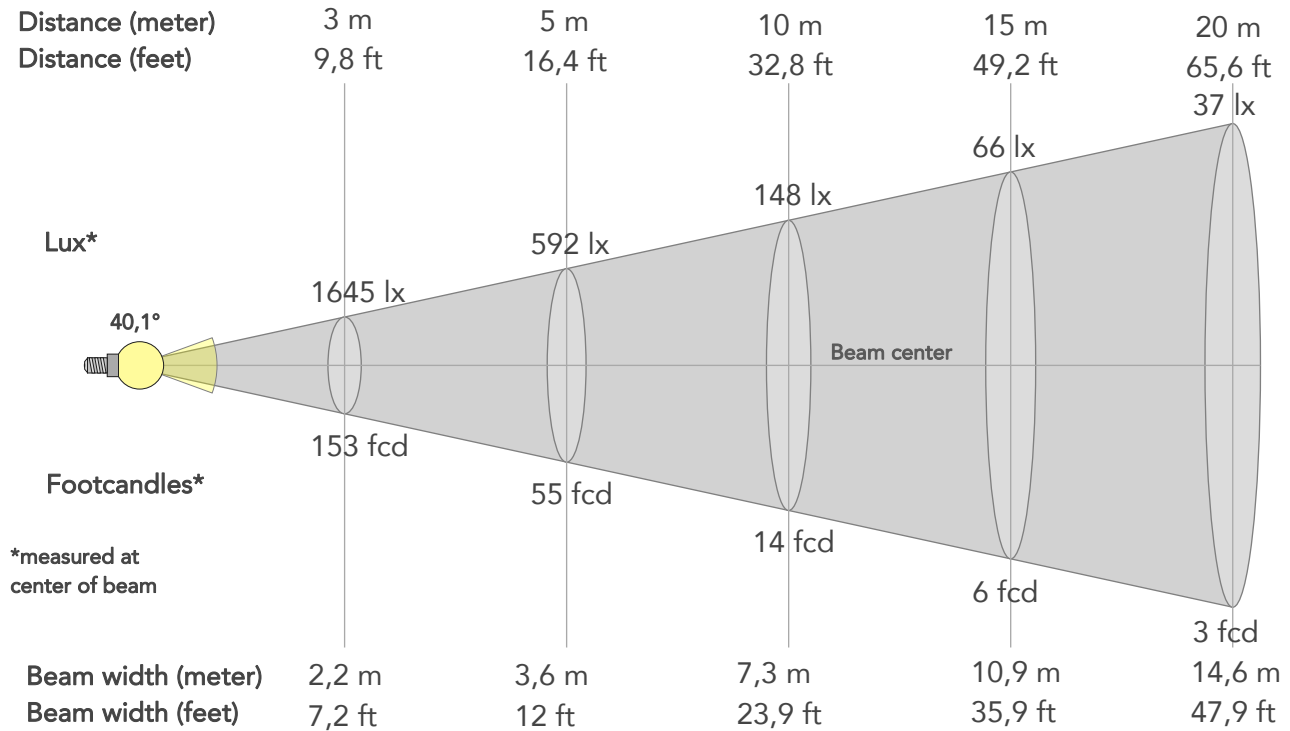
Spectra



BEAM DETAILS



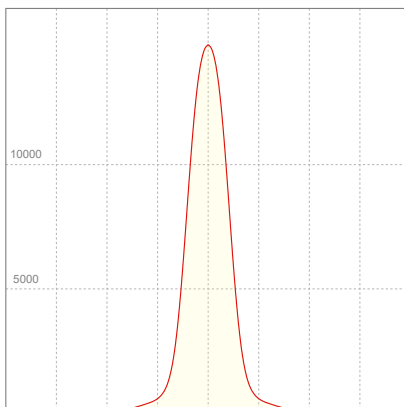
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40,1°	68,5°	110,5°	95,7%	89,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	14804lx	3701lx	1645lx	925lx	592lx	263lx	148lx	66lx	37lx	24lx	16lx	9lx	6lx
Footcand.	1375fcd	344fcd	153fcd	86fcd	55fcd	24fcd	14fcd	6fcd	3fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,7m	1,5m	2,2m	2,9m	3,6m	5,5m	7,3m	10,9m	14,6m	18,2m	21,9m	29,2m	36,5m
Beam wid.	2,4ft	4,8ft	7,2ft	9,6ft	12ft	18ft	23,9ft	35,9ft	47,9ft	59,8ft	71,8ft	95,8ft	119,7ft

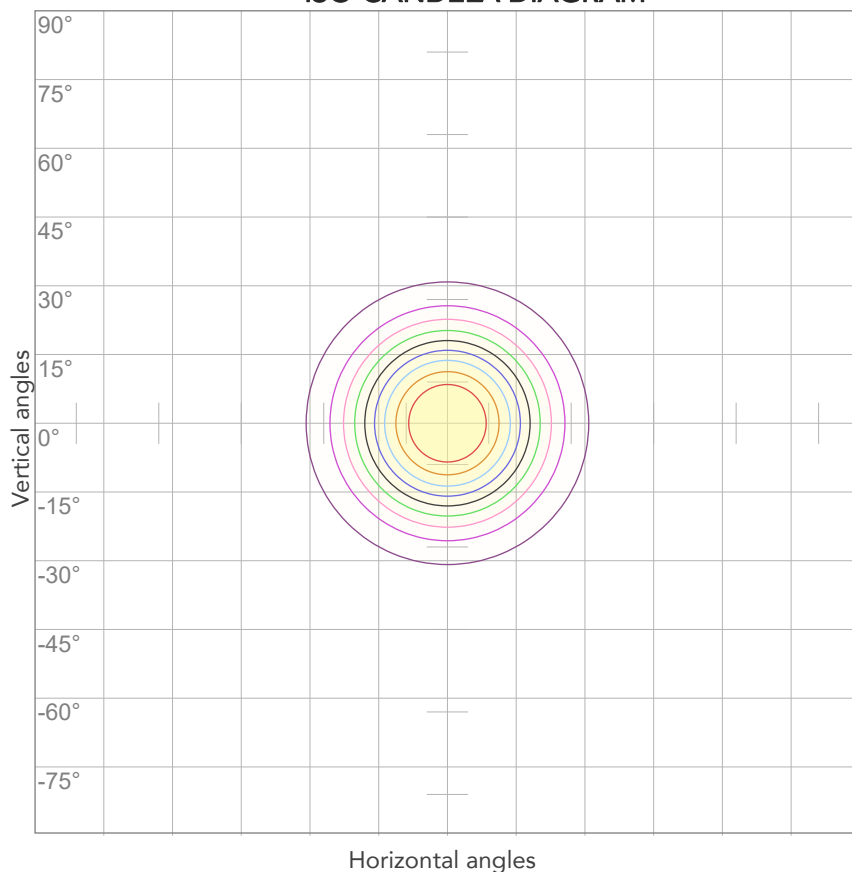
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,886A	194W	43lm/W
Power FC			
0,97			

ISO CANDELA DIAGRAM



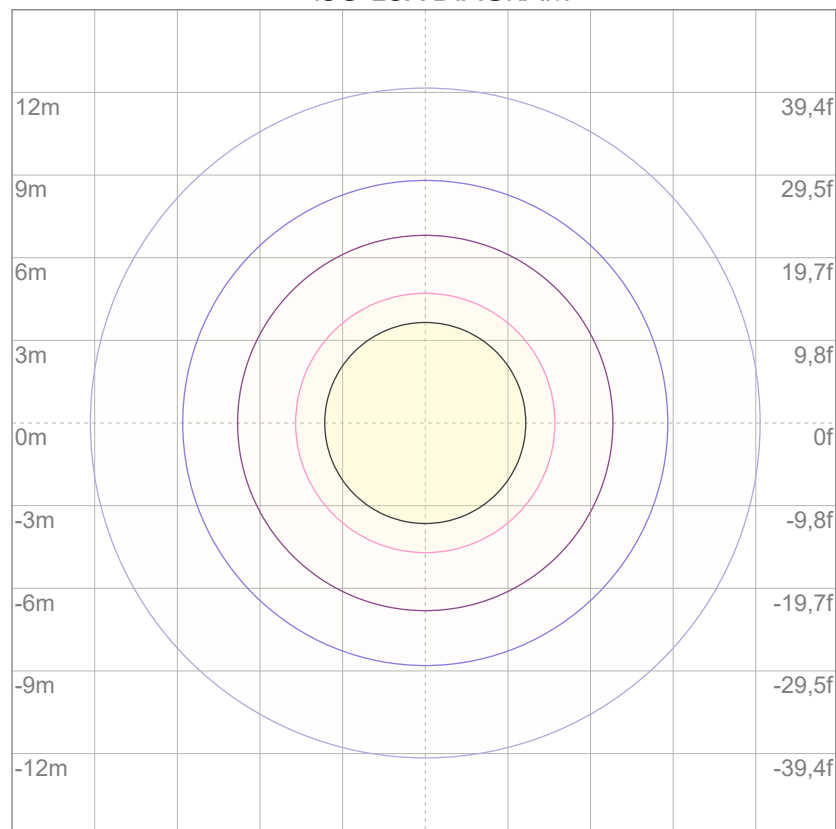
10%	1480 cd
20%	2961 cd
30%	4441 cd
40%	5922 cd
50%	7402 cd
60%	8882 cd
70%	10363 cd
80%	11843 cd

Conditions:

Number of c-planes: 2

Candela at center: 14804 cd

ISO LUX DIAGRAM



3%	4,44 lx
5%	7,40 lx
10%	14,8 lx
30%	44,4 lx
50%	74,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 148 lx

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



Total lumen output:

8209 lm

Peak candela output:

8157 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

60°

Target:

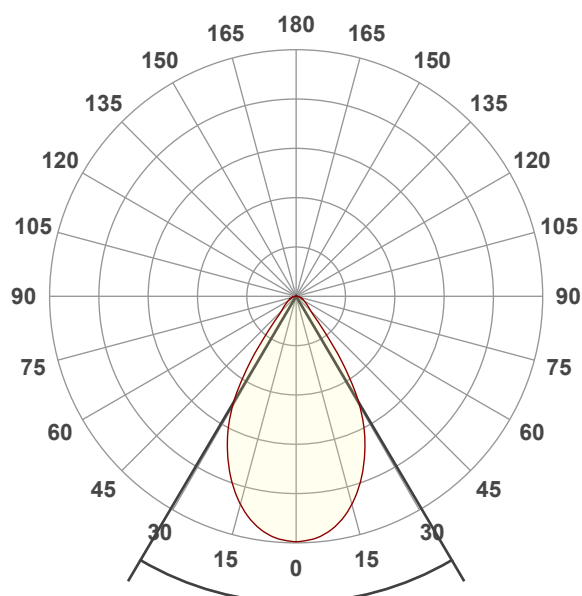
Full On

Operator:

Paolo Carvone

Date and time:

18/10/2022 14:53:55

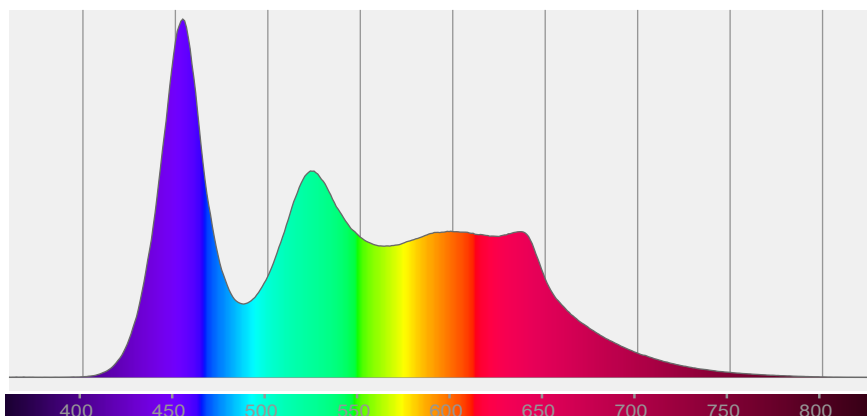


Beam angle 50%: 61,1°

Field angle 10%: 86,3°

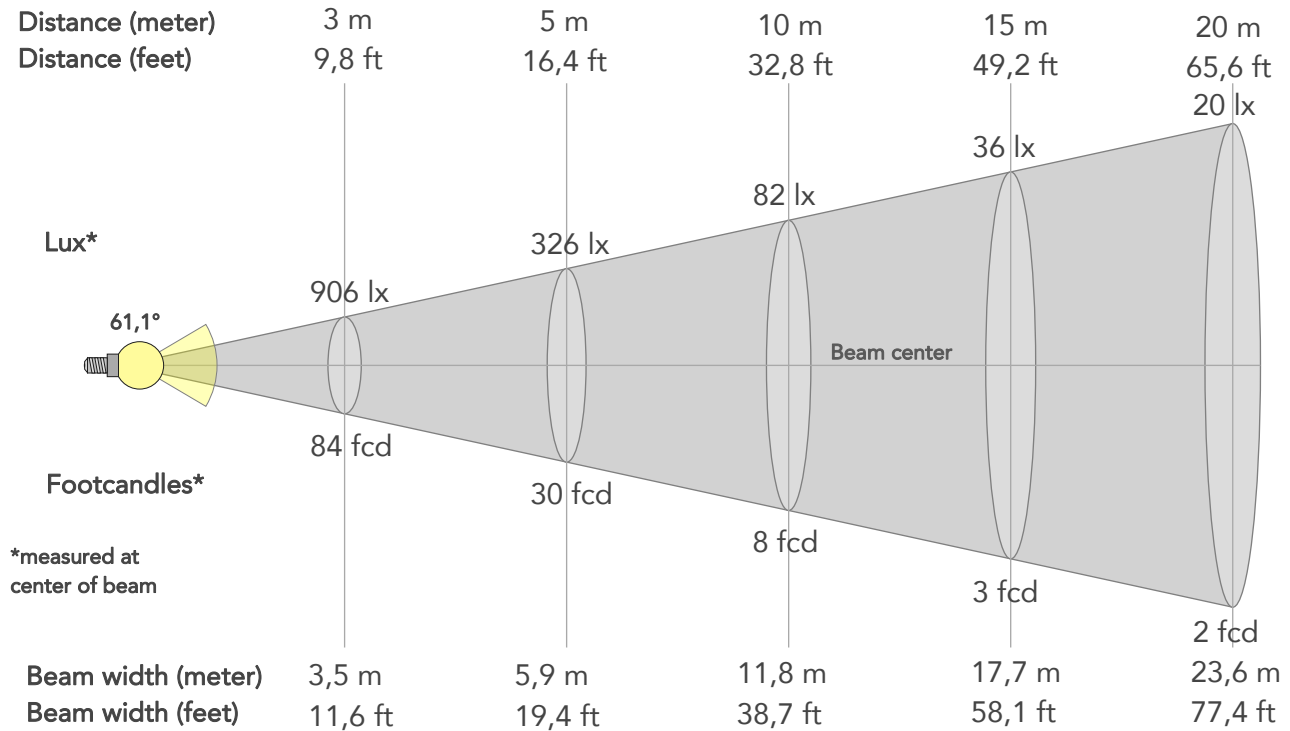
Cut off angle 2.5%: 136,6°

Spectra



BEAM DETAILS

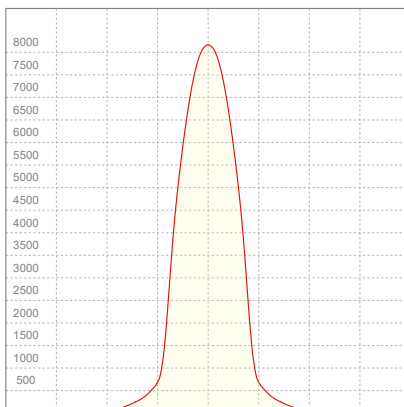
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
61,1°	86,3°	136,6°	95,0%	87,7%



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	8157lx	2039lx	906lx	510lx	326lx	145lx	82lx	36lx	20lx	13lx	9lx	5lx	3lx
Footcand.	758fcd	189fcd	84fcd	47fcd	30fcd	13fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,5m	4,7m	5,9m	8,8m	11,8m	17,7m	23,6m	29,5m	35,4m	47,2m	59m
Beam wid.	3,9ft	7,8ft	11,6ft	15,5ft	19,4ft	29ft	38,7ft	58,1ft	77,4ft	96,8ft	116,1ft	154,8ft	193,5ft

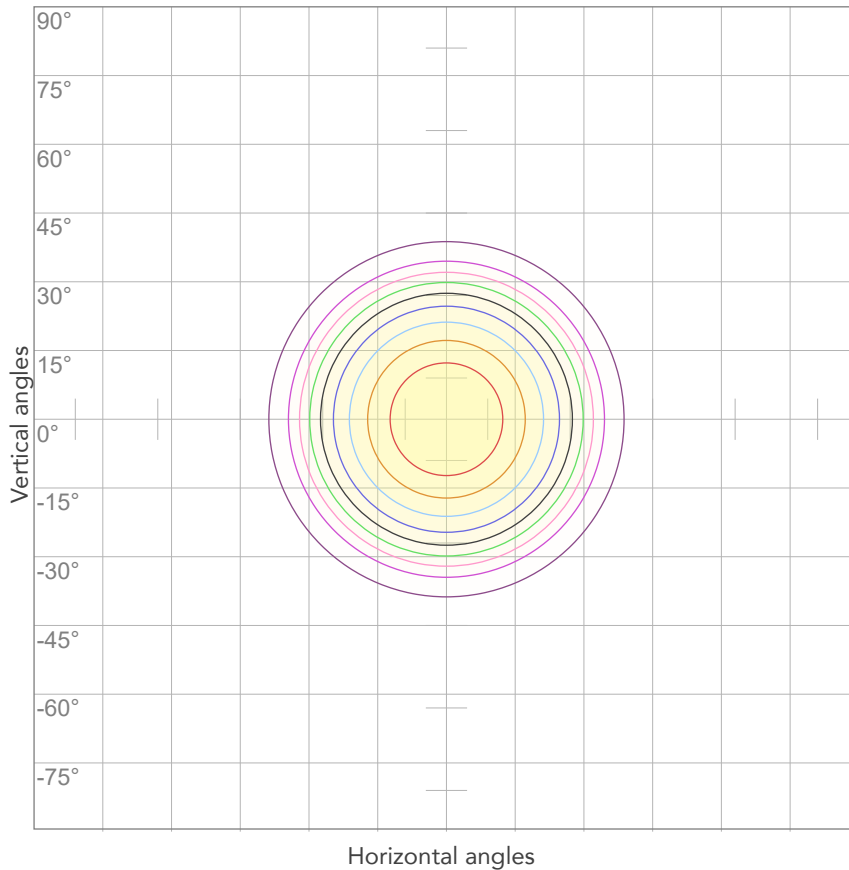
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,891A	194,8W	42lm/W
Power FC			
0,97			

ISO CANDELA DIAGRAM



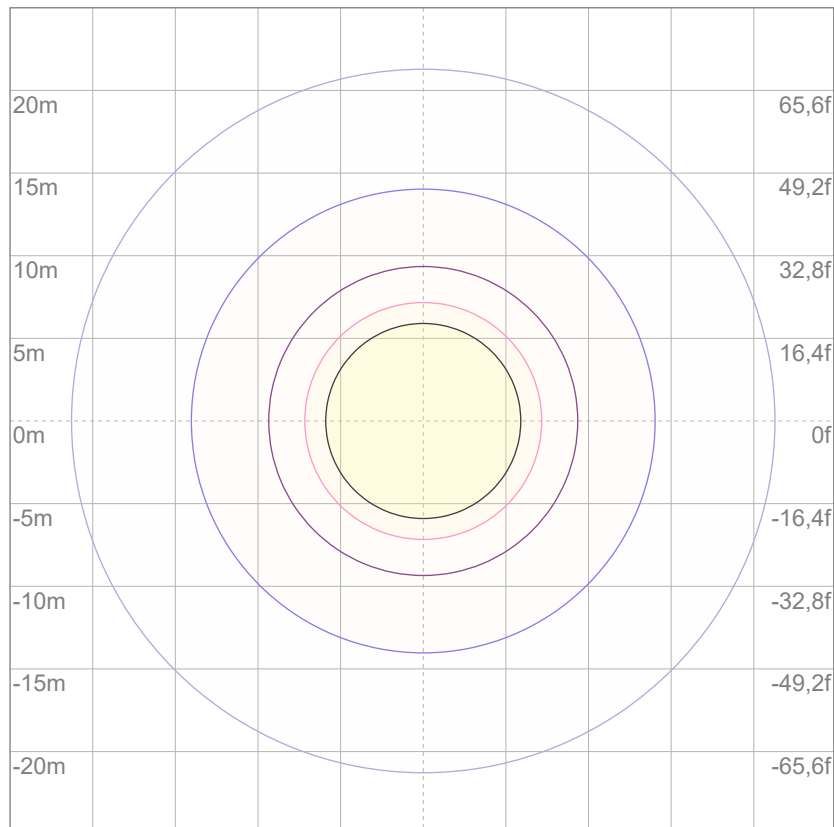
10%	816 cd
20%	1631 cd
30%	2447 cd
40%	3263 cd
50%	4078 cd
60%	4894 cd
70%	5710 cd
80%	6526 cd

Conditions:

Number of c-planes: 2

Candela at center: 8157 cd

ISO LUX DIAGRAM



3%	2,45 lx
5%	4,08 lx
10%	8,16 lx
30%	24,5 lx
50%	40,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 81,6 lx

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



Total lumen output:

1594 lm

Peak candela output:

8168 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

20°

Target:

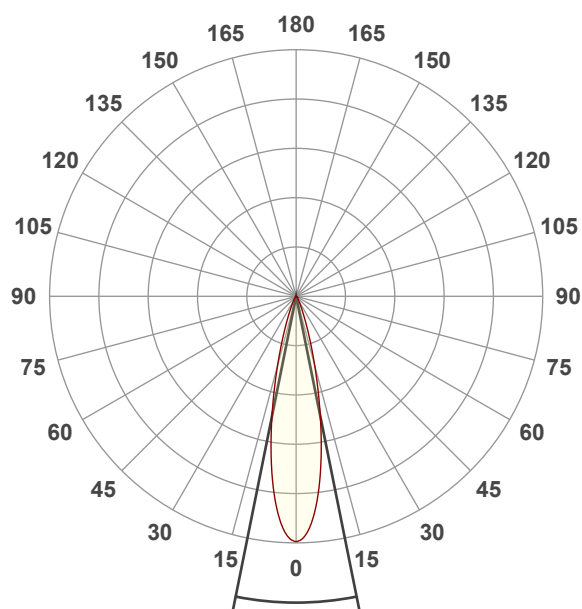
Red

Operator:

Paolo Carvone

Date and time:

13/10/2022 16:48:12

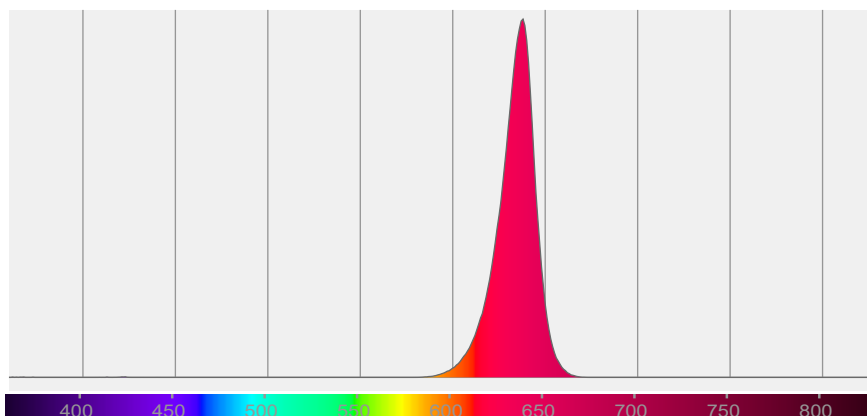


Beam angle 50%: 22,8°

Field angle 10%: 41,6°

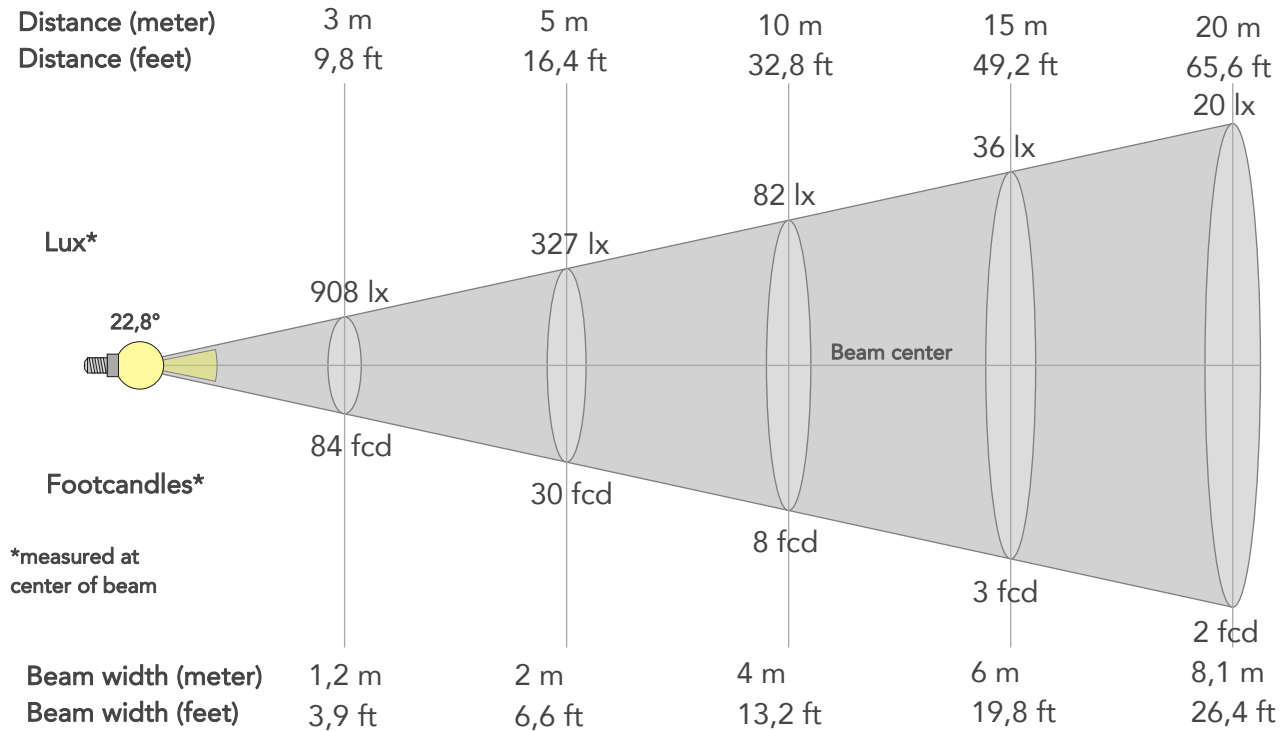
Cut off angle 2.5%: 57,9°

Spectra



BEAM DETAILS

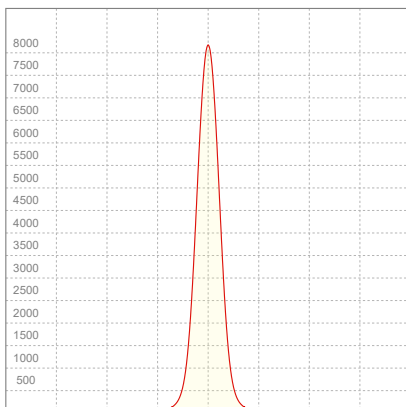
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22,8°	41,6°	57,9°	99,7%	97,5%



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	8168lx	2042lx	908lx	511lx	327lx	145lx	82lx	36lx	20lx	13lx	9lx	5lx	3lx
Footcand.	759fcd	190fcd	84fcd	47fcd	30fcd	13fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2m	3m	4m	6m	8,1m	10,1m	12,1m	16,1m	20,1m
Beam wid.	1,3ft	2,7ft	3,9ft	5,3ft	6,6ft	9,9ft	13,2ft	19,8ft	26,4ft	33ft	39,6ft	52,8ft	66,1ft

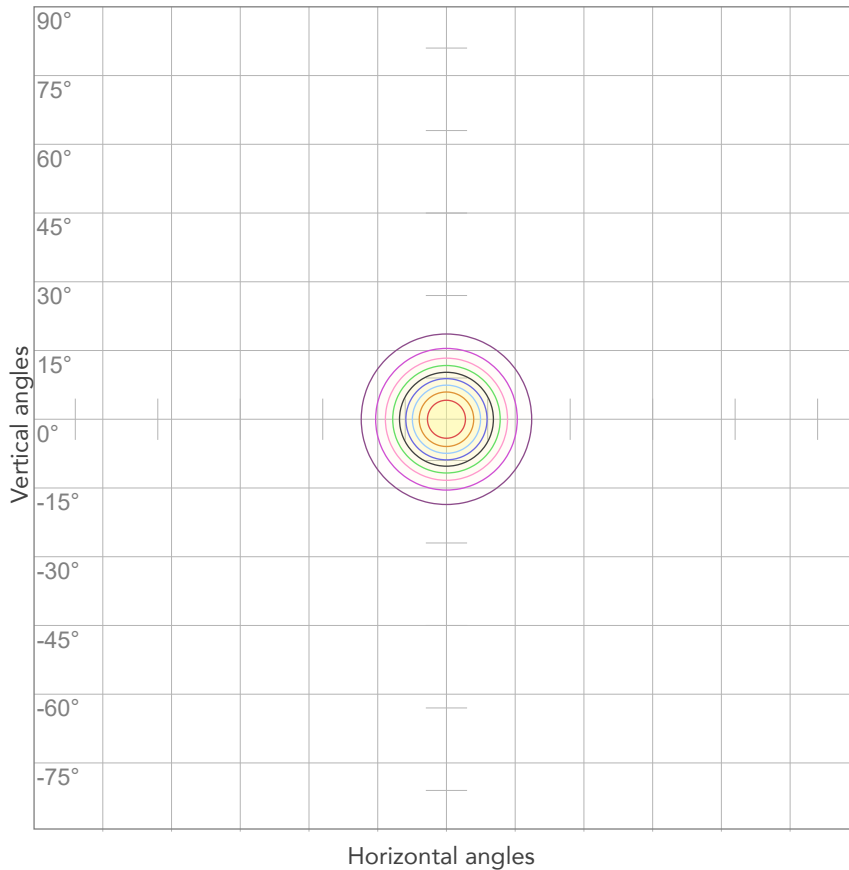
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,272A	41,8W	38lm/W
Power FC			
0,68			

ISO CANDELA DIAGRAM



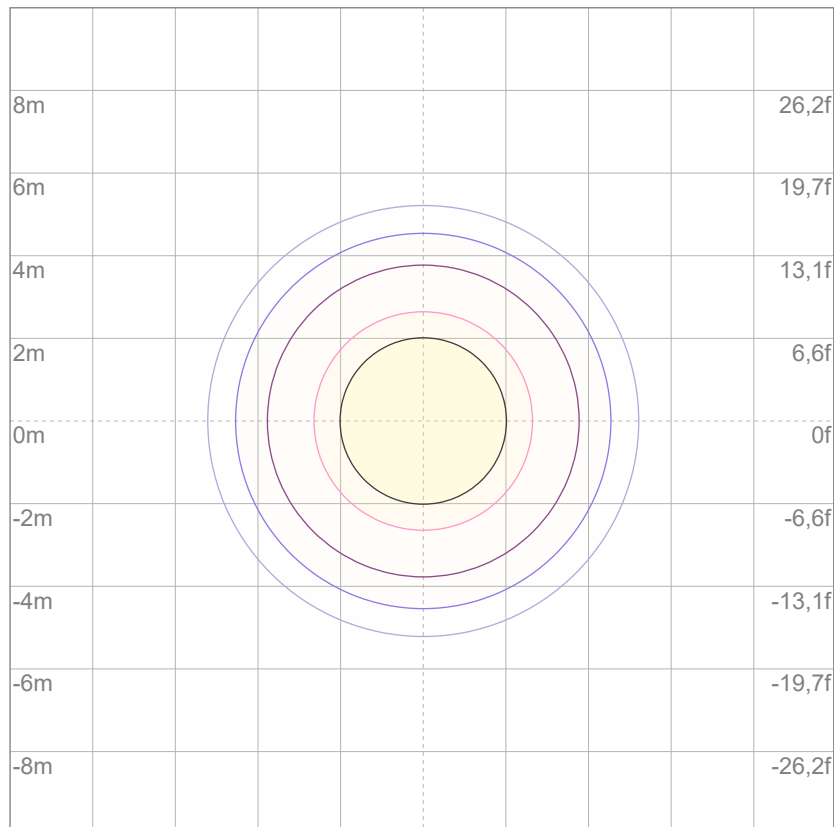
10%	817 cd
20%	1634 cd
30%	2450 cd
40%	3267 cd
50%	4084 cd
60%	4901 cd
70%	5718 cd
80%	6534 cd

Conditions:

Number of c-planes: 2

Candela at center: 8168 cd

ISO LUX DIAGRAM



3%	2,45 lx
5%	4,08 lx
10%	8,17 lx
30%	24,5 lx
50%	40,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 81,7 lx

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



Total lumen output:

1362 lm

Peak candela output:

2703 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

40°

Target:

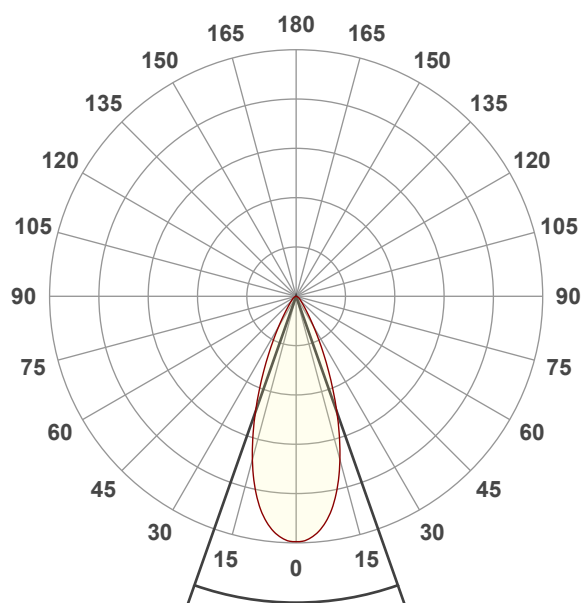
Red

Operator:

Paolo Carvone

Date and time:

18/10/2022 15:18:16

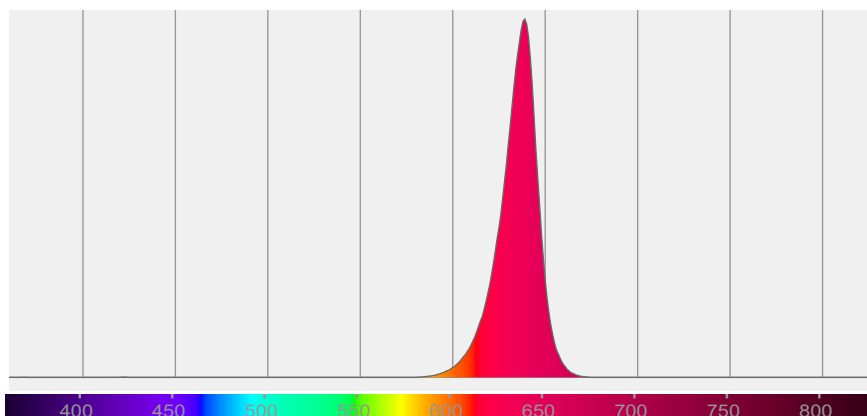


Beam angle 50%: 38,8°

Field angle 10%: 65,4°

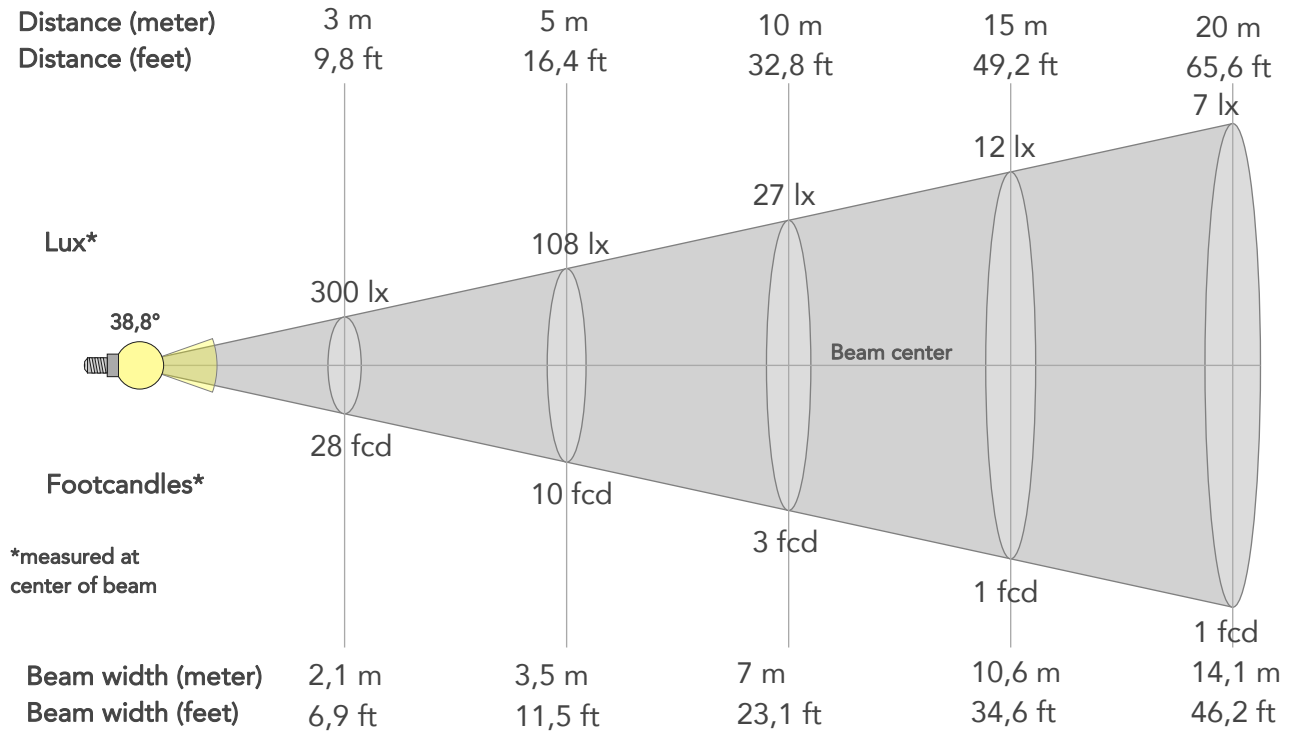
Cut off angle 2.5%: 94,7°

Spectra



BEAM DETAILS

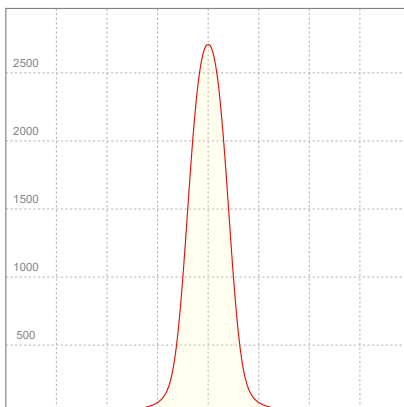
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38,8°	65,4°	94,7°	97,6%	92,7%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2703lx	676lx	300lx	169lx	108lx	48lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	251fcd	63fcd	28fcd	16fcd	10fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,3m	7m	10,6m	14,1m	17,6m	21,1m	28,2m	35,2m
Beam wid.	2,3ft	4,6ft	6,9ft	9,2ft	11,5ft	17,3ft	23,1ft	34,6ft	46,2ft	57,7ft	69,3ft	92,4ft	115,5ft

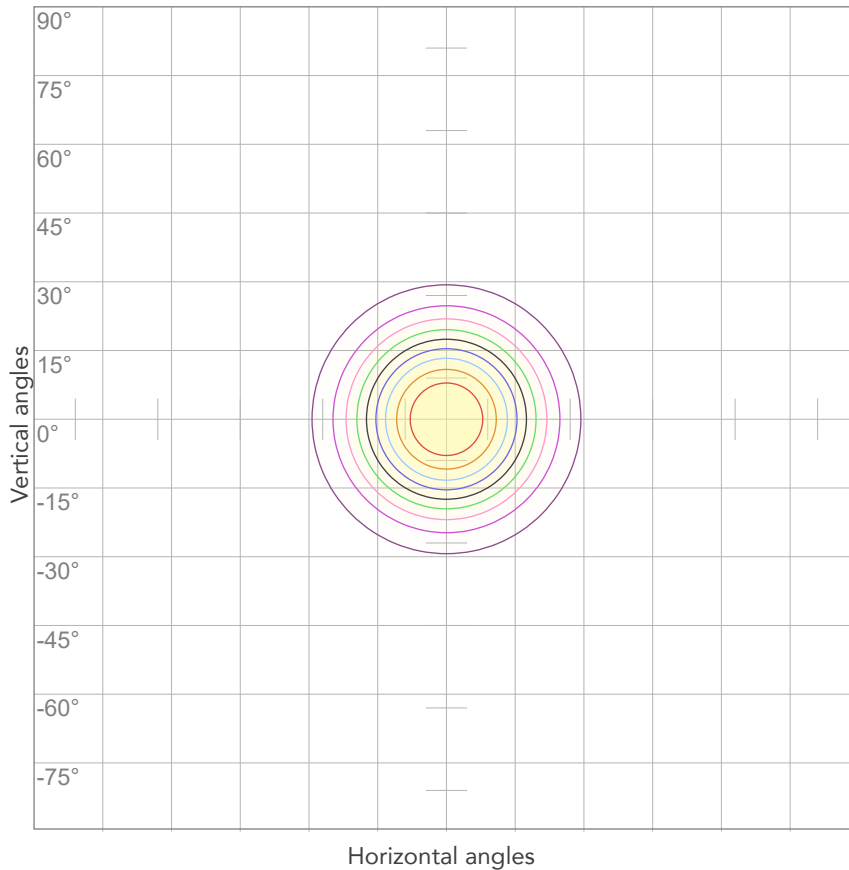
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,271A	41,4W	33lm/W
Power FC			
0,67			

ISO CANDELA DIAGRAM



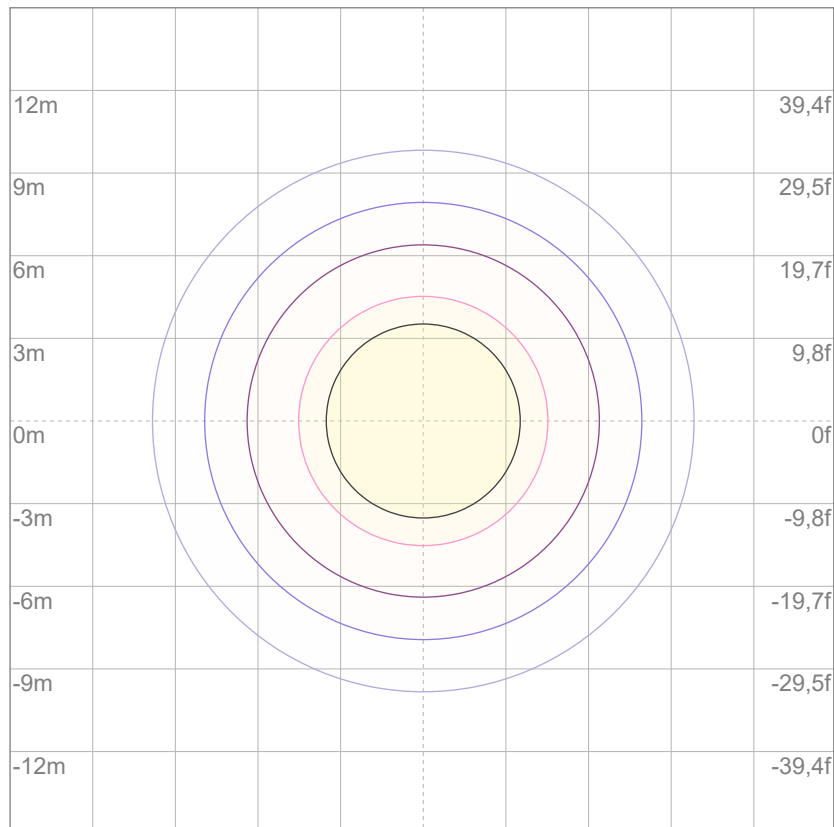
10%	270 cd
20%	541 cd
30%	811 cd
40%	1081 cd
50%	1352 cd
60%	1622 cd
70%	1892 cd
80%	2163 cd

Conditions:

Number of c-planes: 2

Candela at center: 2703 cd

ISO LUX DIAGRAM



3%	0,811 lx
5%	1,35 lx
10%	2,70 lx
30%	8,11 lx
50%	13,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 27,0 lx

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



Total lumen output:

1351 lm

Peak candela output:

1494 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

60°

Target:

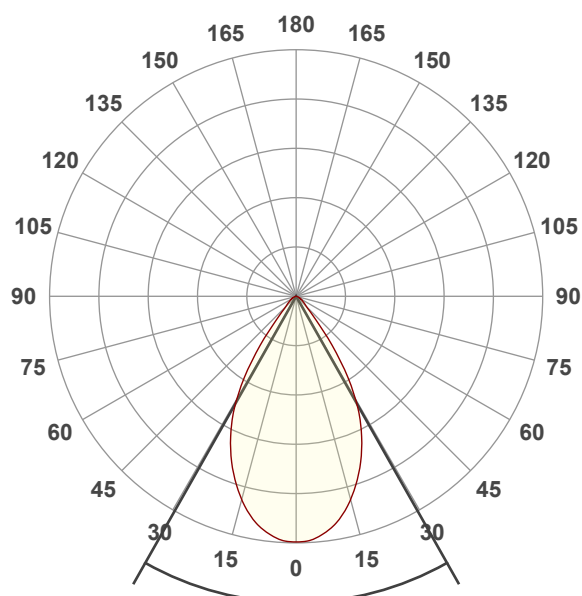
Red

Operator:

Paolo Carvone

Date and time:

18/10/2022 15:15:00

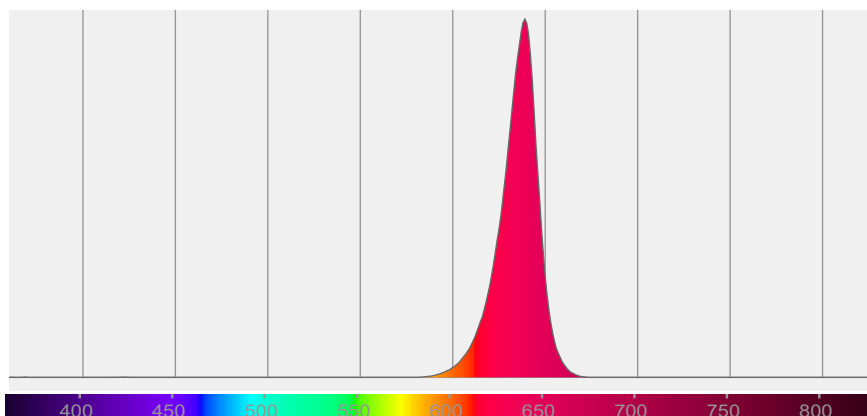


Beam angle 50%: 59°

Field angle 10%: 83,3°

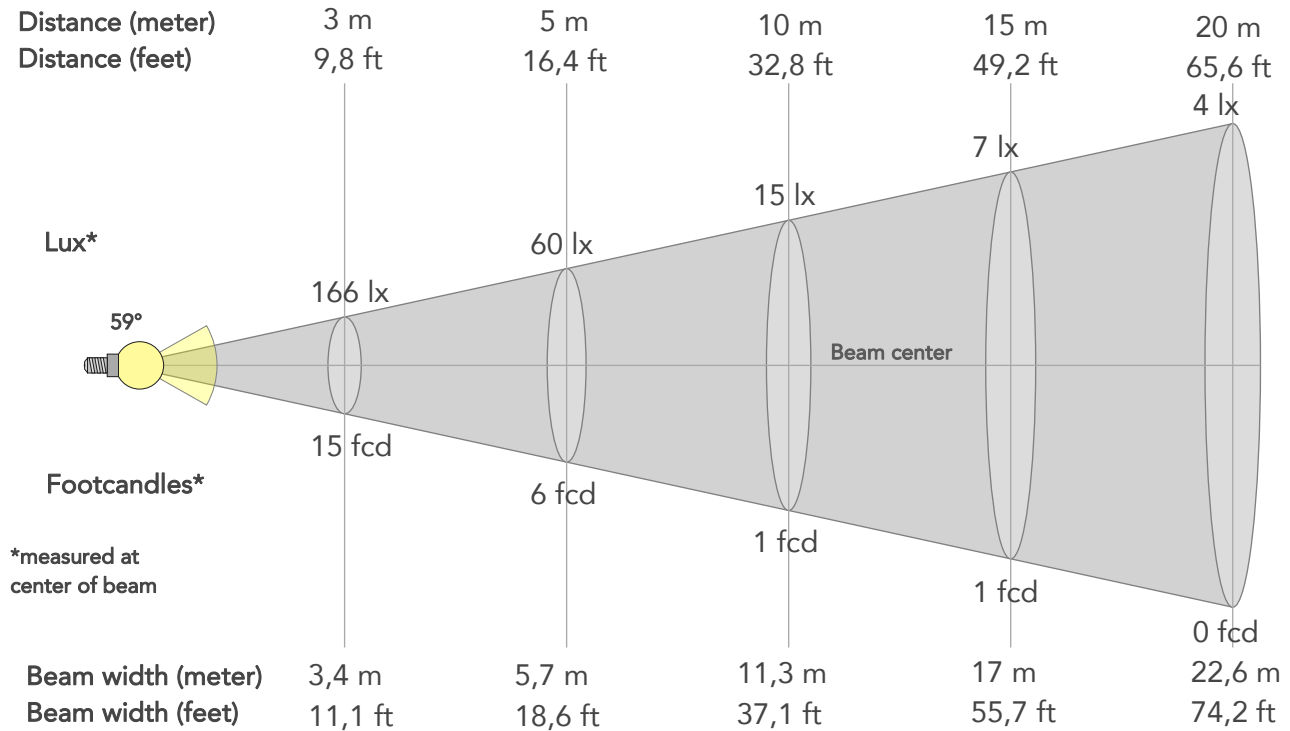
Cut off angle 2.5%: 115,1°

Spectra



BEAM DETAILS

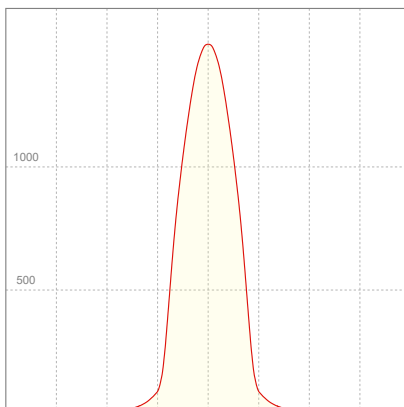
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59°	83,3°	115,1°	97,5%	92,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1494lx	374lx	166lx	93lx	60lx	27lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	139fcd	35fcd	15fcd	9fcd	6fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,5m	5,7m	8,5m	11,3m	17m	22,6m	28,3m	34m	45,3m	56,6m
Beam wid.	3,7ft	7,5ft	11,1ft	14,8ft	18,6ft	27,8ft	37,1ft	55,7ft	74,2ft	92,8ft	111,4ft	148,5ft	185,6ft

LINEAR DISTRIBUTION DIAGRAM

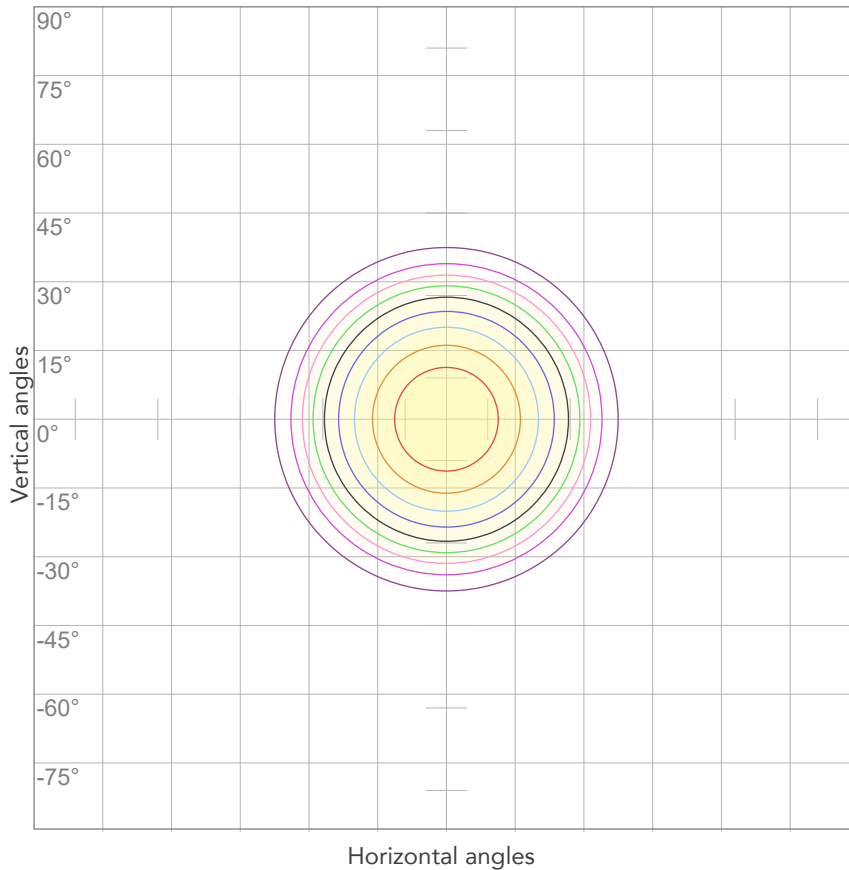


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,270A	41,4W	33lm/W

Power FC
0,67

ISO CANDELA DIAGRAM



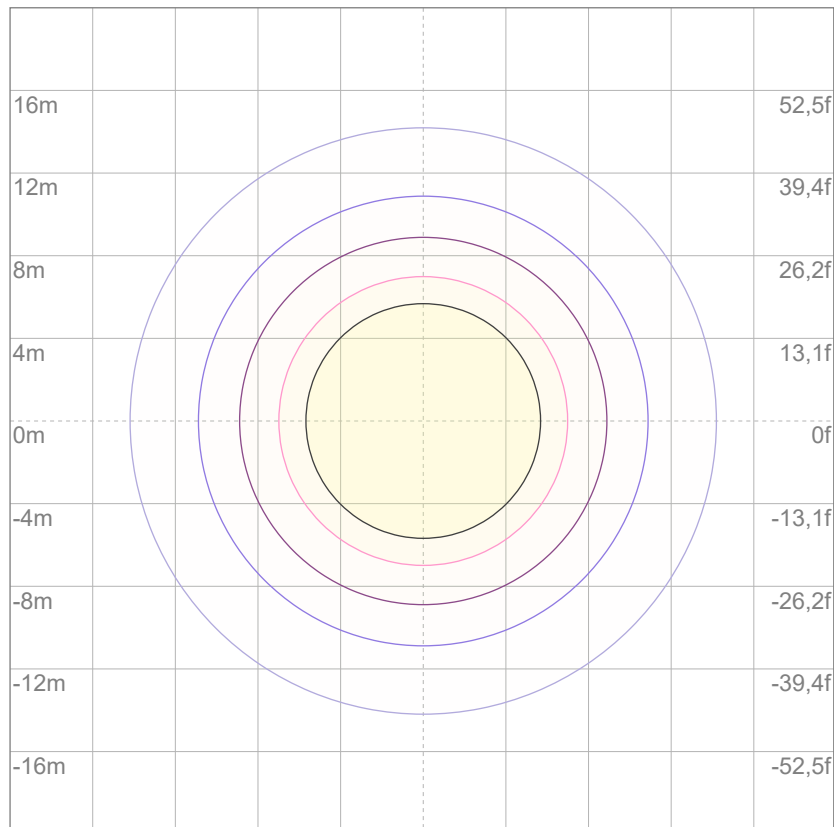
10%	149 cd
20%	299 cd
30%	448 cd
40%	598 cd
50%	747 cd
60%	896 cd
70%	1046 cd
80%	1195 cd

Conditions:

Number of c-planes: 2

Candela at center: 1494 cd

ISO LUX DIAGRAM



3%	0,448 lx
5%	0,747 lx
10%	1,49 lx
30%	4,48 lx
50%	7,47 lx

Conditions:

Number of c-planes: 2

Lux at center: 14,9 lx

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



Total lumen output:

2679 lm

Peak candela output:

11492 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

20°

Target:

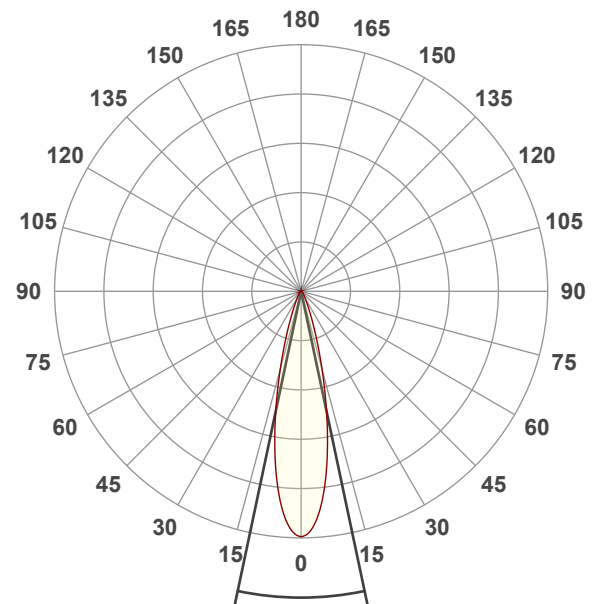
Green

Operator:

Paolo Carvone

Date and time:

13/10/2022 17:00:45

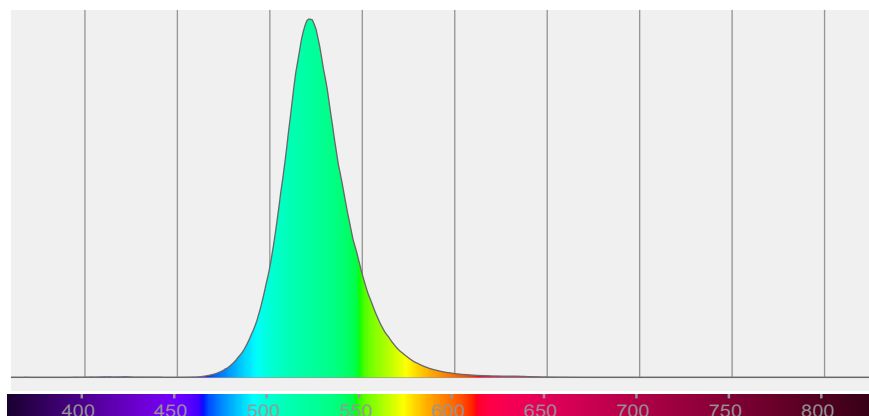


Beam angle 50%: 23,9°

Field angle 10%: 44,2°

Cut off angle 2.5%: 65,8°

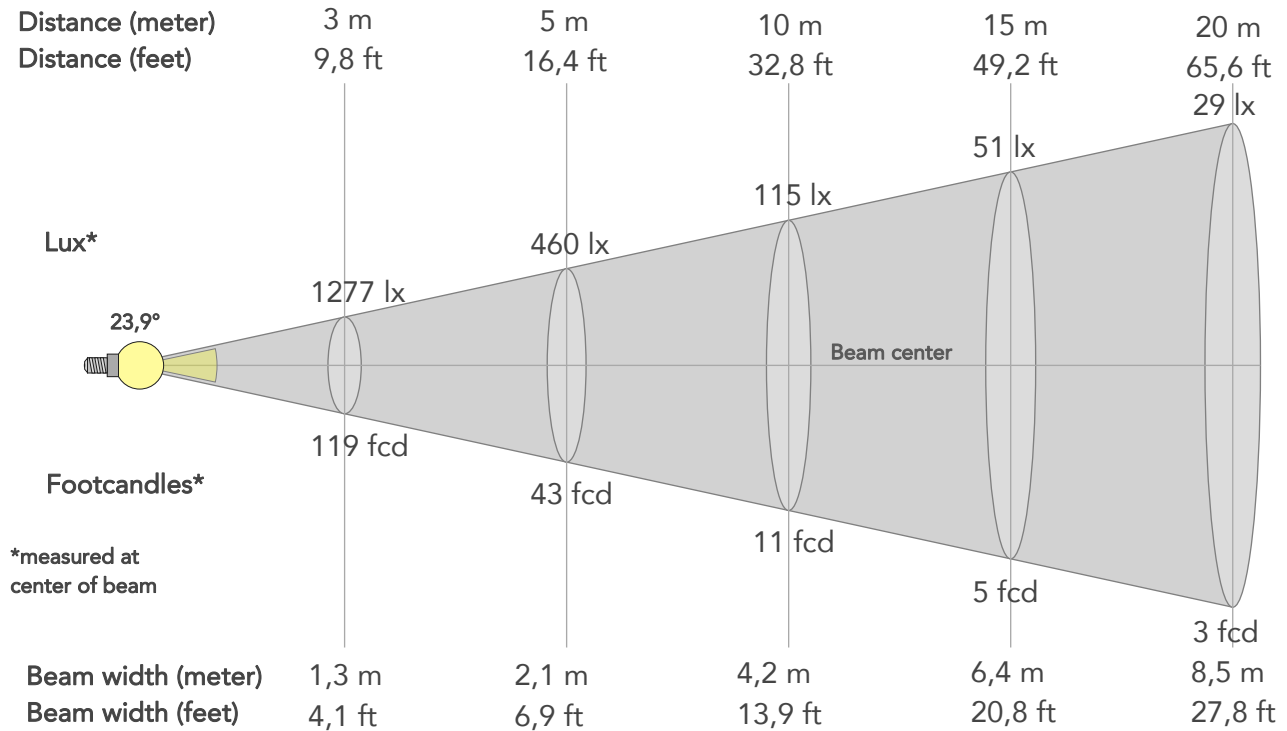
Spectra



BEAM DETAILS



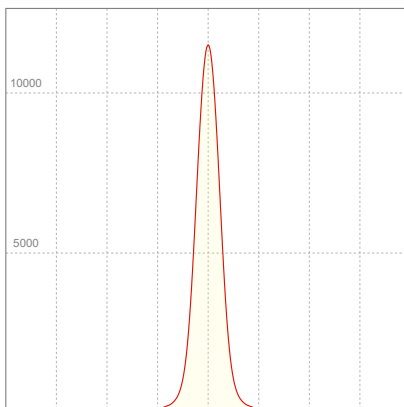
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,9°	44,2°	65,8°	98,1%	93,3%



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	11492lx	2873lx	1277lx	718lx	460lx	204lx	115lx	51lx	29lx	18lx	13lx	7lx	5lx
Footcand.	1068fcd	267fcd	119fcd	67fcd	43fcd	19fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,4m	0,8m	1,3m	1,7m	2,1m	3,2m	4,2m	6,4m	8,5m	10,6m	12,7m	16,9m	21,2m
Beam wid.	1,4ft	2,8ft	4,1ft	5,5ft	6,9ft	10,4ft	13,9ft	20,8ft	27,8ft	34,7ft	41,7ft	55,5ft	69,4ft

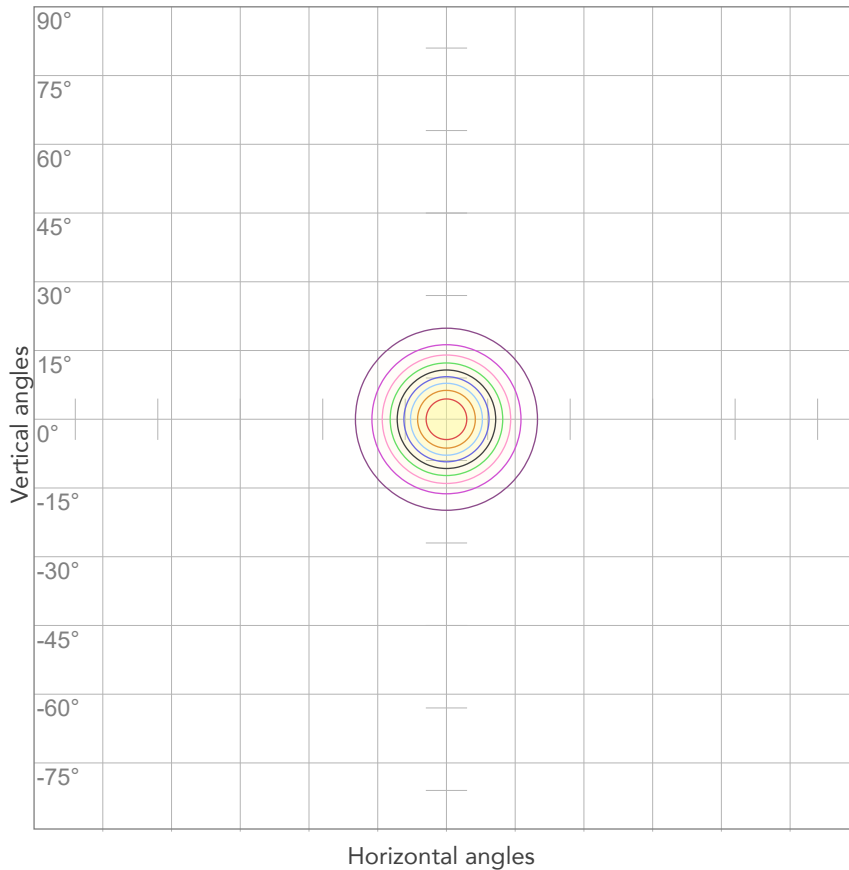
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,298A	50,5W	53lm/W
Power FC			
0,76			

ISO CANDELA DIAGRAM



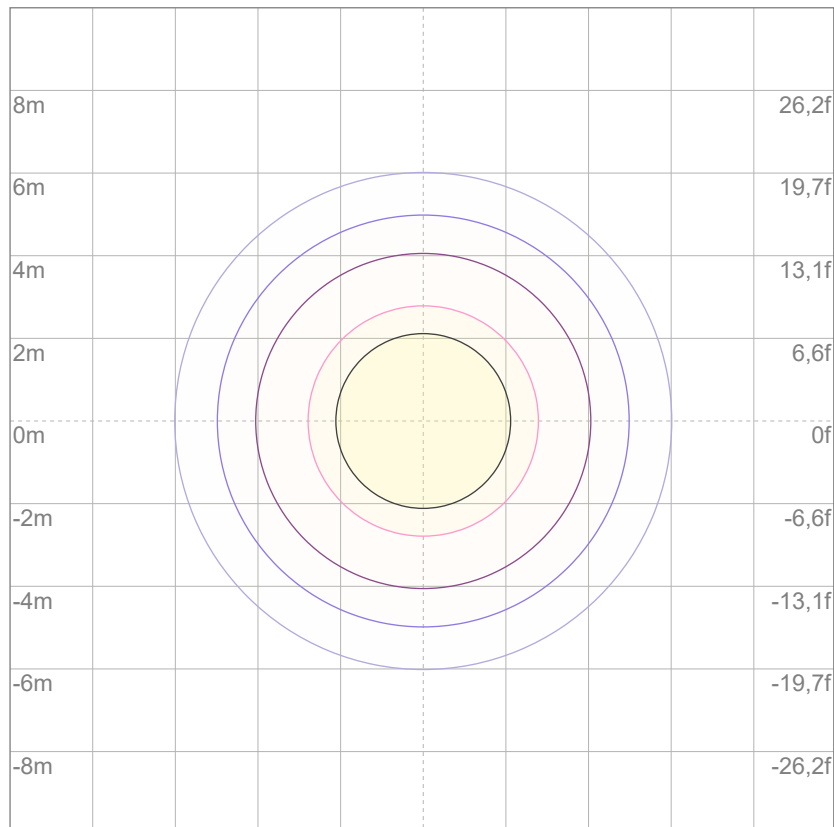
10%	1149 cd
20%	2298 cd
30%	3447 cd
40%	4597 cd
50%	5746 cd
60%	6895 cd
70%	8044 cd
80%	9193 cd

Conditions:

Number of c-planes: 2

Candela at center: 11492 cd

ISO LUX DIAGRAM



3%	3,45 lx
5%	5,75 lx
10%	11,5 lx
30%	34,5 lx
50%	57,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 115 lx

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



Total lumen output:

2186 lm

Peak candela output:

3969 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

40°

Target:

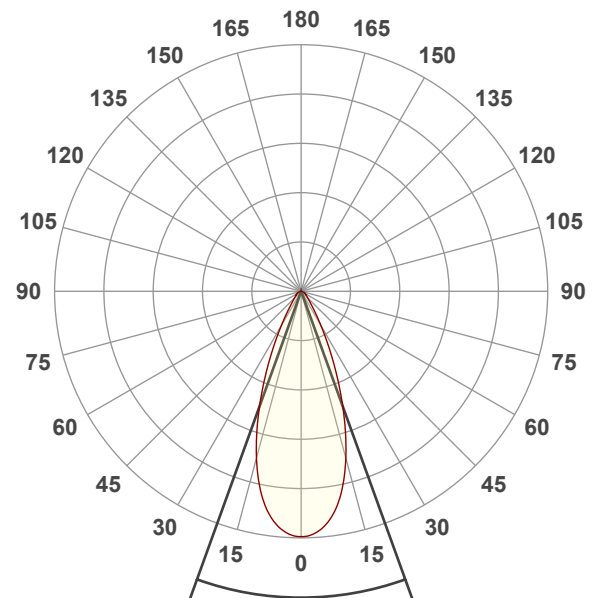
Green

Operator:

Paolo Carvone

Date and time:

18/10/2022 14:58:25

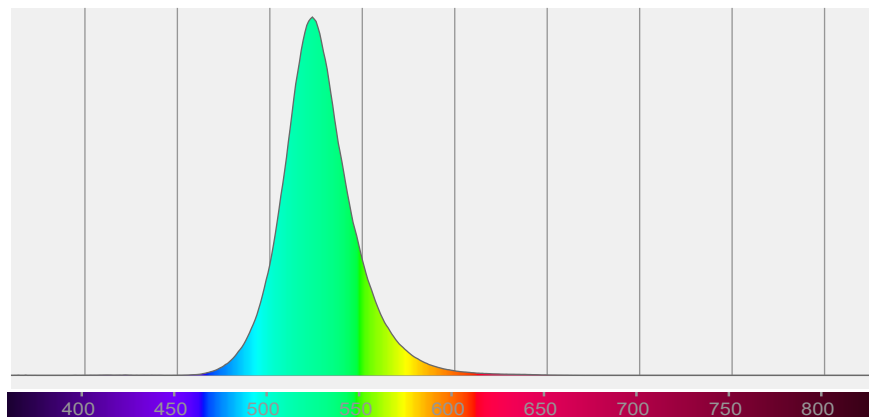


Beam angle 50%: 39,7°

Field angle 10%: 67,8°

Cut off angle 2.5%: 107,2°

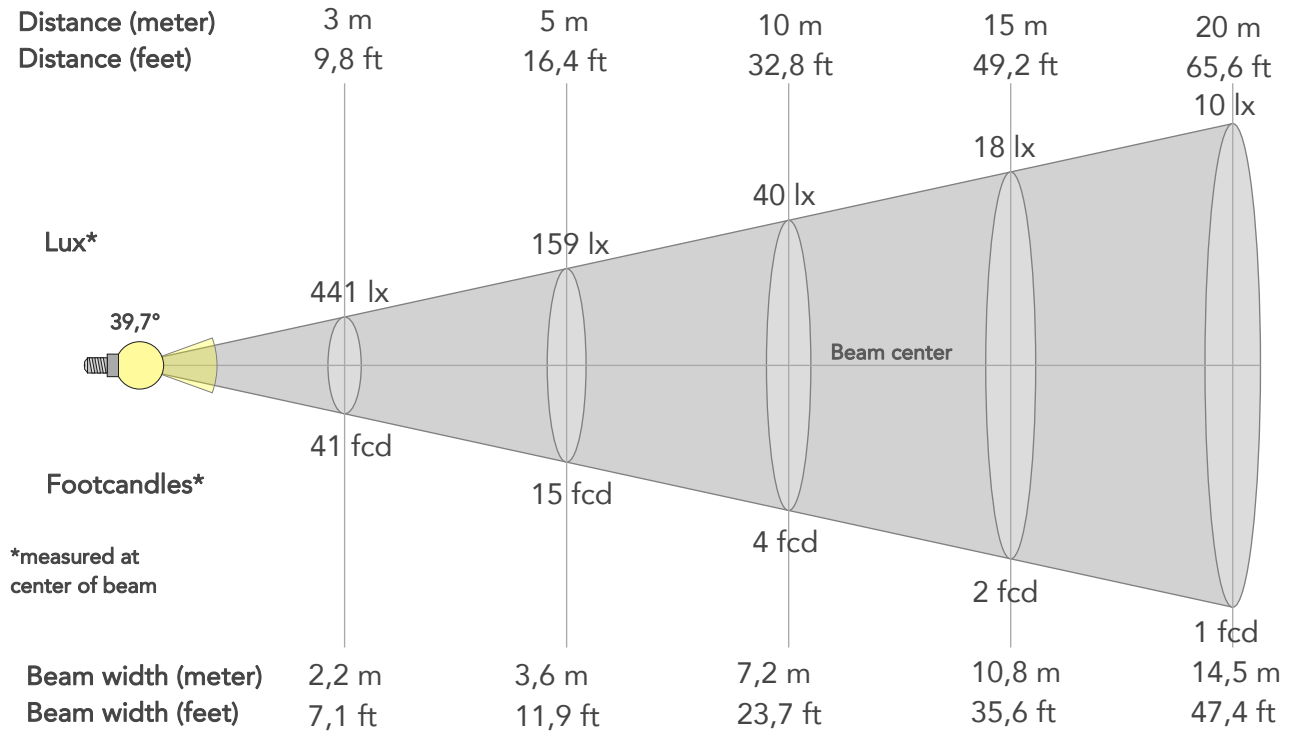
Spectra



BEAM DETAILS



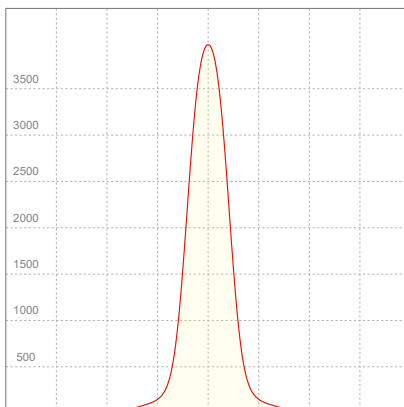
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,7°	67,8°	107,2°	96,0%	89,7%



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	3969lx	992lx	441lx	248lx	159lx	71lx	40lx	18lx	10lx	6lx	4lx	2lx	2lx
Footcand.	369fcd	92fcd	41fcd	23fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,2m	2,9m	3,6m	5,4m	7,2m	10,8m	14,5m	18,1m	21,7m	28,9m	36,1m
Beam wid.	2,4ft	4,8ft	7,1ft	9,5ft	11,9ft	17,8ft	23,7ft	35,6ft	47,4ft	59,3ft	71,1ft	94,8ft	118,6ft

LINEAR DISTRIBUTION DIAGRAM

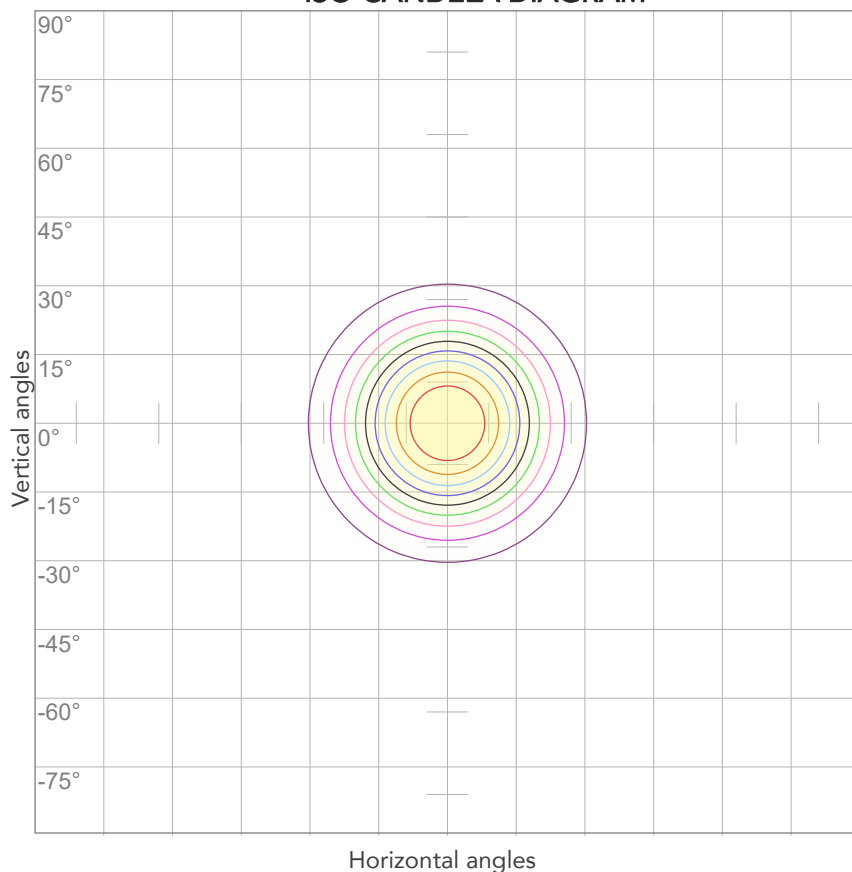


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,291A	48,5W	45lm/W

Power FC
0,73

ISO CANDELA DIAGRAM



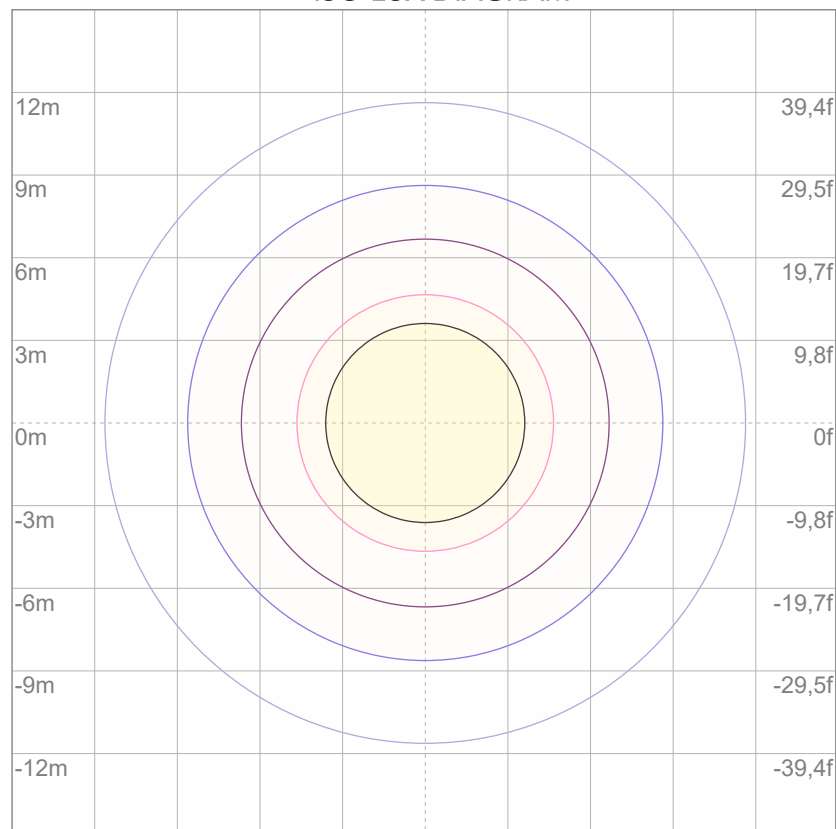
10%	397 cd
20%	794 cd
30%	1191 cd
40%	1588 cd
50%	1985 cd
60%	2382 cd
70%	2778 cd
80%	3175 cd

Conditions:

Number of c-planes: 2

Candela at center: 3969 cd

ISO LUX DIAGRAM



3%	1,19 lx
5%	1,98 lx
10%	3,97 lx
30%	11,9 lx
50%	19,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 39,7 lx

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



Total lumen output:

2185 lm

Peak candela output:

2206 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

60°

Target:

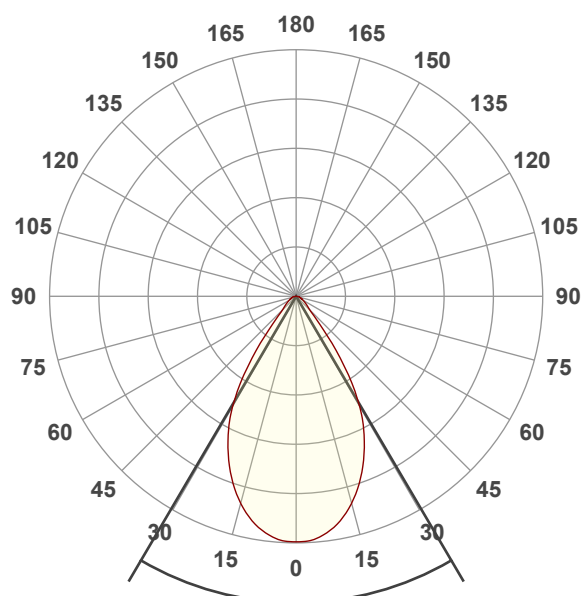
Green

Operator:

Paolo Carvone

Date and time:

18/10/2022 15:00:33

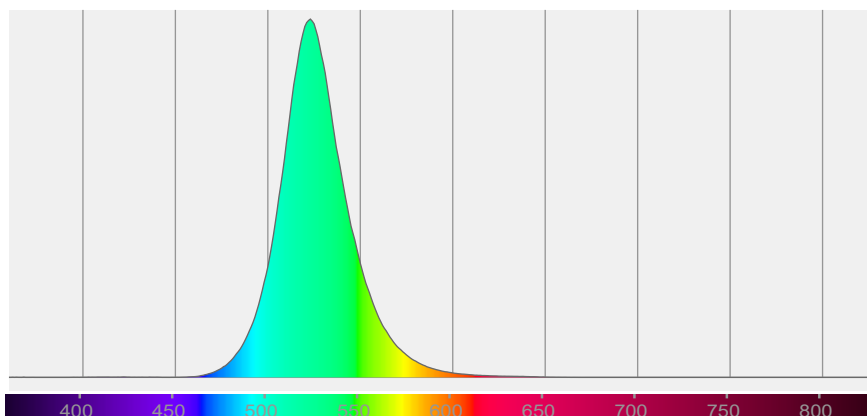


Beam angle 50%: 60,9°

Field angle 10%: 86,3°

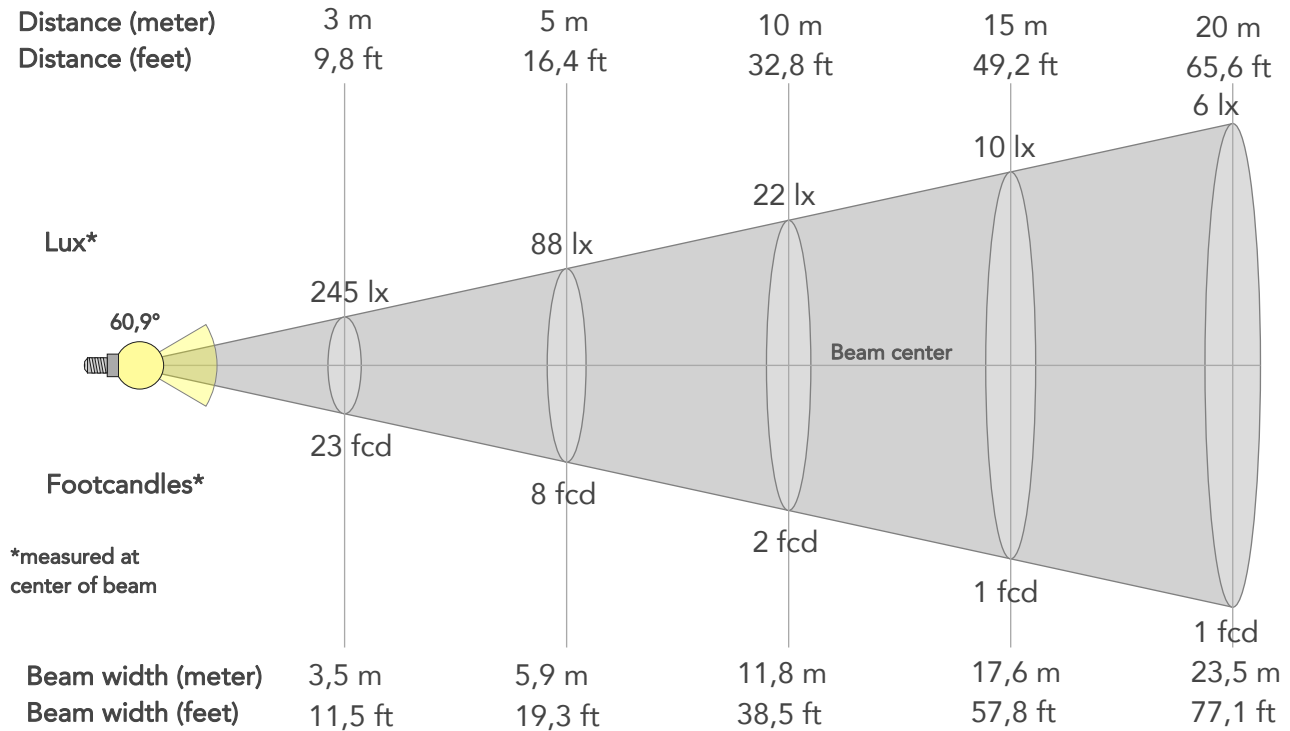
Cut off angle 2.5%: 131,4°

Spectra



BEAM DETAILS

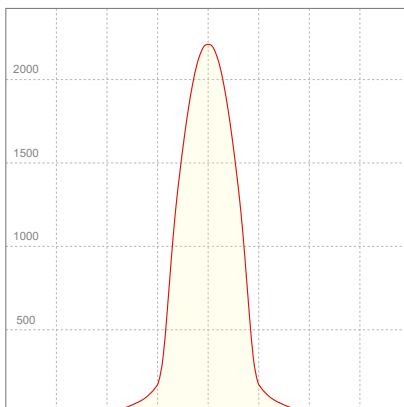
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60,9°	86,3°	131,4°	95,7%	88,9%



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	2206lx	551lx	245lx	138lx	88lx	39lx	22lx	10lx	6lx	4lx	2lx	1lx	1lx
Footcand.	205fcd	51fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,5m	4,7m	5,9m	8,8m	11,8m	17,6m	23,5m	29,4m	35,3m	47m	58,8m
Beam wid.	3,9ft	7,8ft	11,5ft	15,4ft	19,3ft	28,9ft	38,5ft	57,8ft	77,1ft	96,4ft	115,6ft	154,2ft	192,7ft

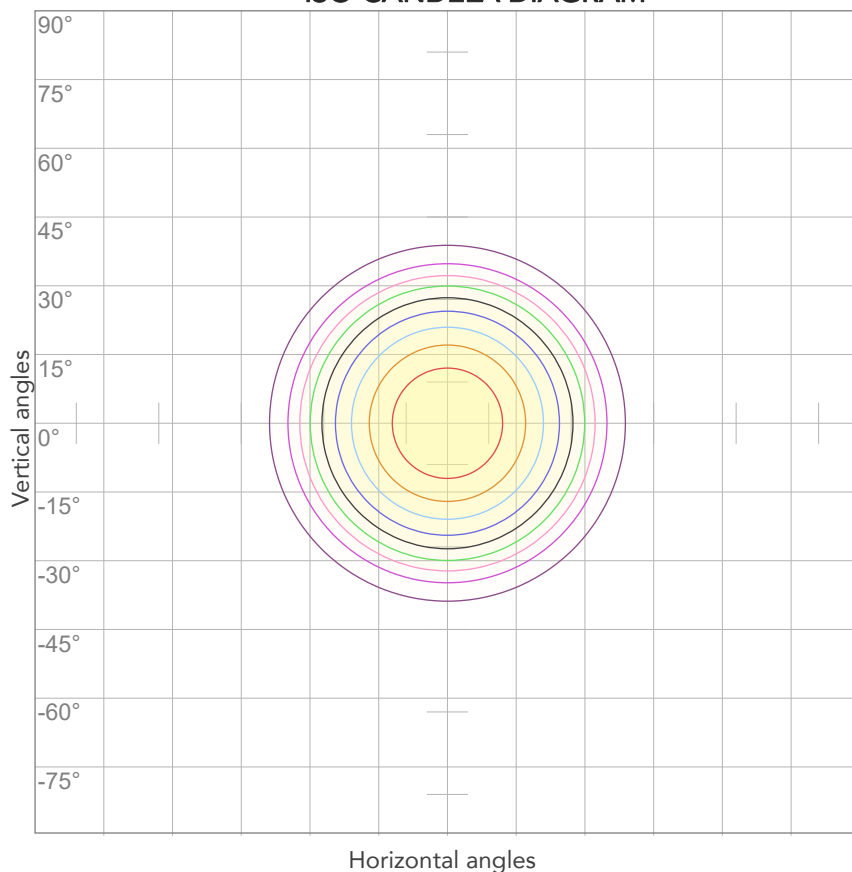
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,291A	48,6W	45lm/W
Power FC			
0,74			

ISO CANDELA DIAGRAM



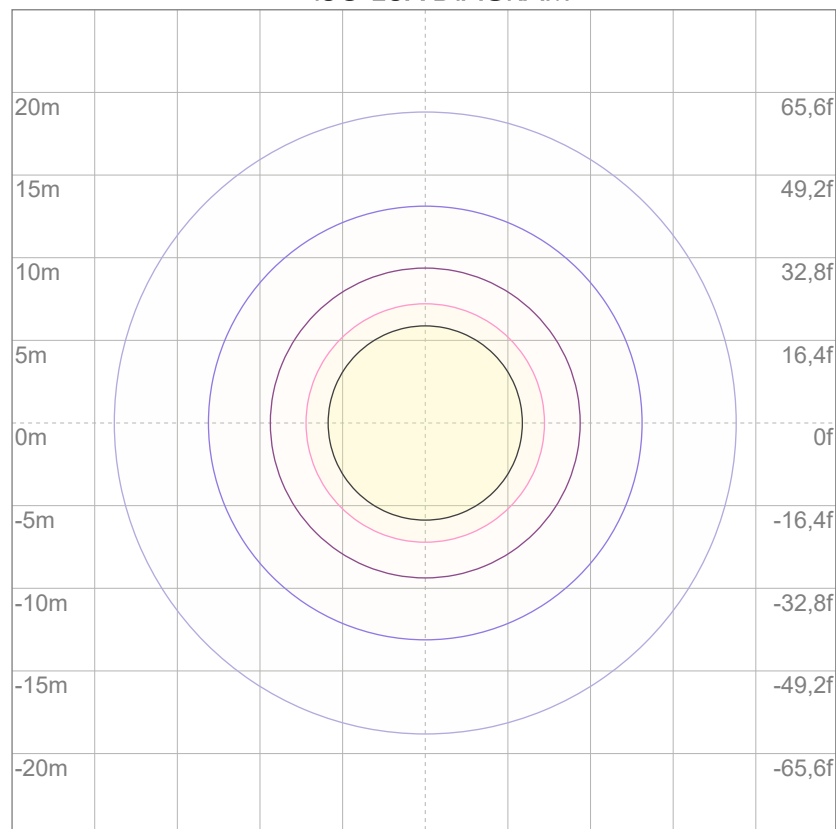
10%	221 cd
20%	441 cd
30%	662 cd
40%	882 cd
50%	1103 cd
60%	1324 cd
70%	1544 cd
80%	1765 cd

Conditions:

Number of c-planes: 2

Candela at center: 2206 cd

ISO LUX DIAGRAM



3%	0,662 lx
5%	1,10 lx
10%	2,21 lx
30%	6,62 lx
50%	11,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 22,1 lx

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



Total lumen output:

637 lm

Peak candela output:

2689 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

20°

Target:

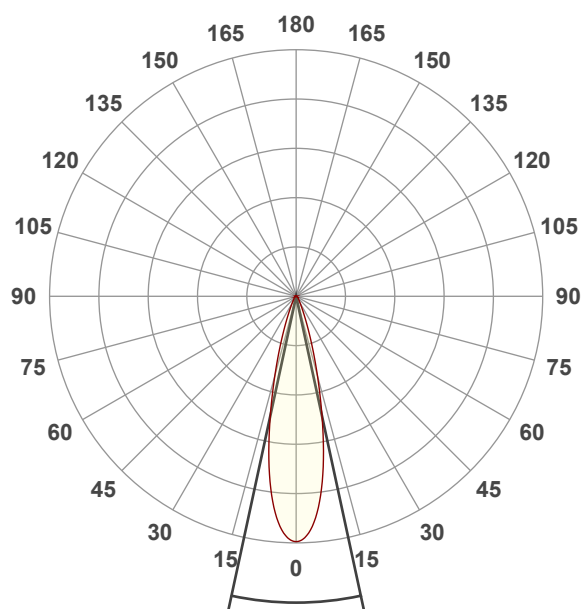
Blue

Operator:

Paolo Carvone

Date and time:

13/10/2022 17:05:17

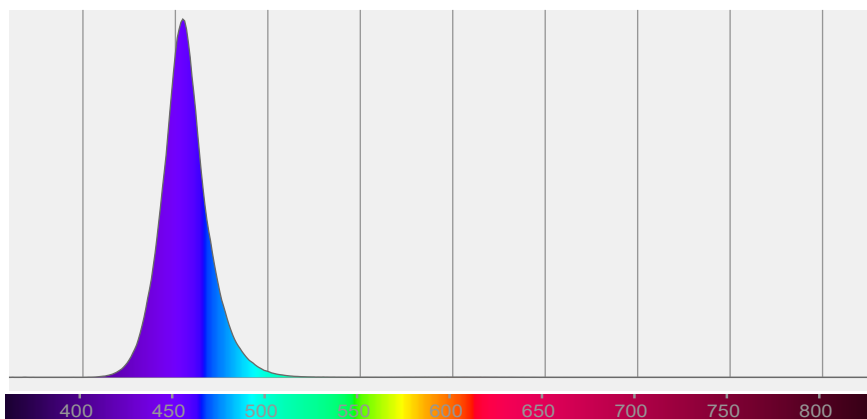


Beam angle 50%: 24,4°

Field angle 10%: 44,3°

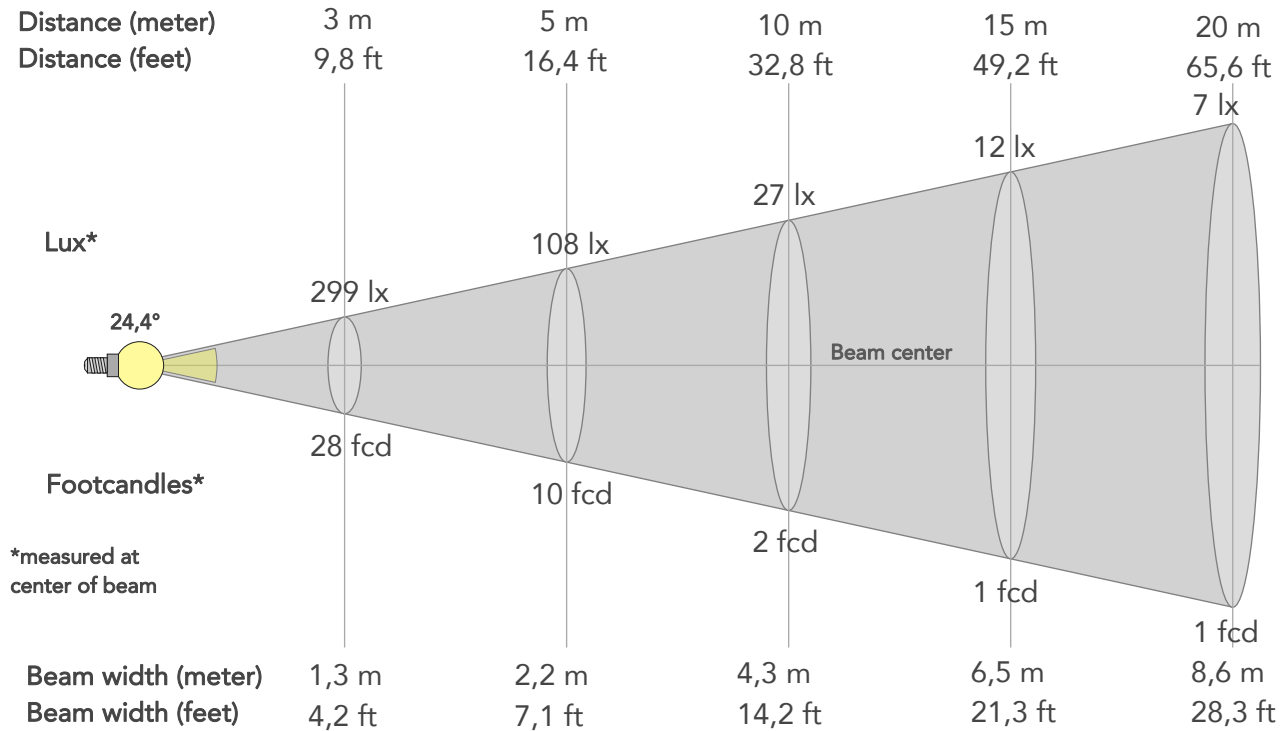
Cut off angle 2.5%: 65,6°

Spectra



BEAM DETAILS

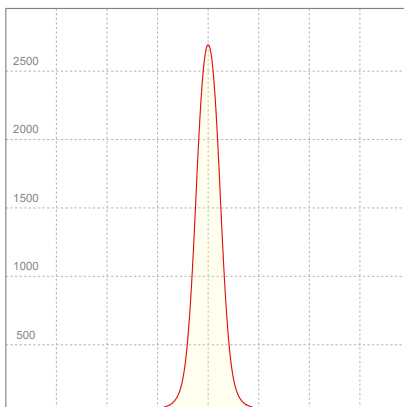
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24,4°	44,3°	65,6°	98,1%	93,6%



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	2689lx	672lx	299lx	168lx	108lx	48lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	250fcd	62fcd	28fcd	16fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,9m	1,3m	1,7m	2,2m	3,2m	4,3m	6,5m	8,6m	10,8m	13m	17,3m	21,6m
Beam wid.	1,4ft	2,9ft	4,2ft	5,7ft	7,1ft	10,6ft	14,2ft	21,3ft	28,3ft	35,4ft	42,5ft	56,7ft	70,8ft

LINEAR DISTRIBUTION DIAGRAM

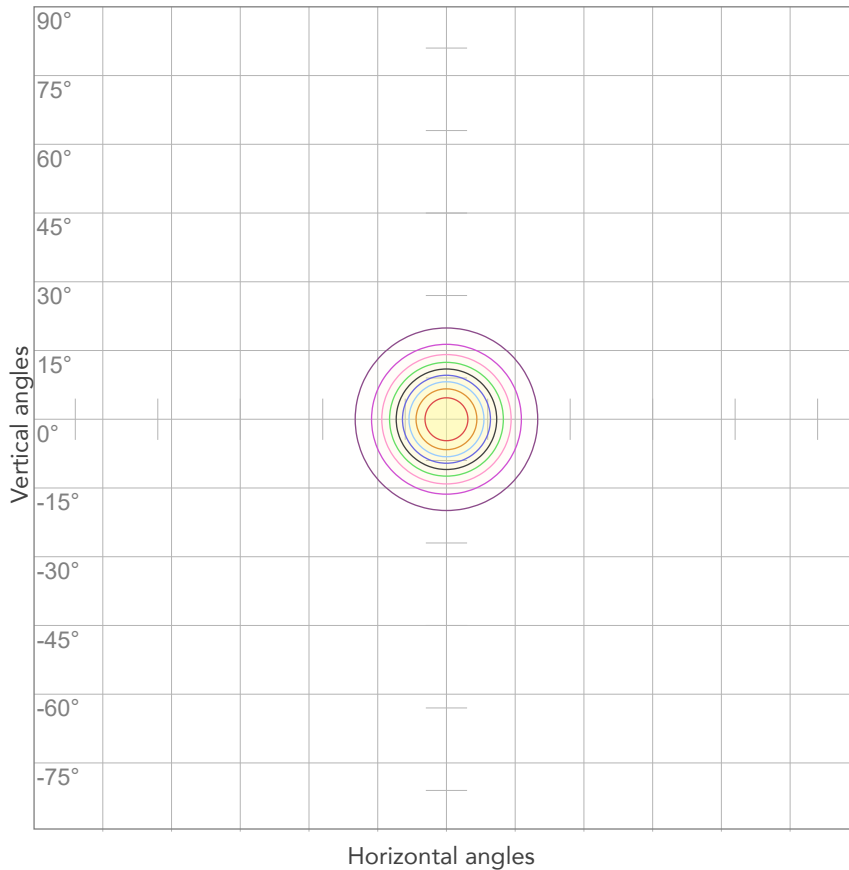


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,290A	48,0W	13lm/W

Power FC
0,74

ISO CANDELA DIAGRAM



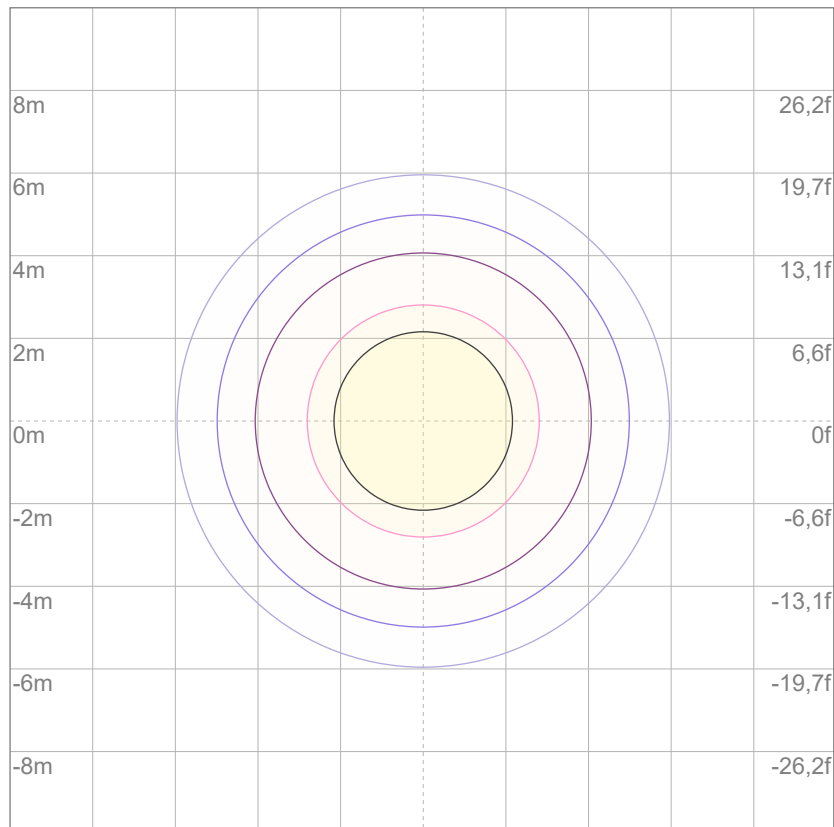
10%	269 cd
20%	538 cd
30%	807 cd
40%	1076 cd
50%	1345 cd
60%	1614 cd
70%	1882 cd
80%	2151 cd

Conditions:

Number of c-planes: 2

Candela at center: 2689 cd

ISO LUX DIAGRAM



3%	0,807 lx
5%	1,34 lx
10%	2,69 lx
30%	8,07 lx
50%	13,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 26,9 lx

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



Total lumen output:

520 lm

Peak candela output:

972 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

40°

Target:

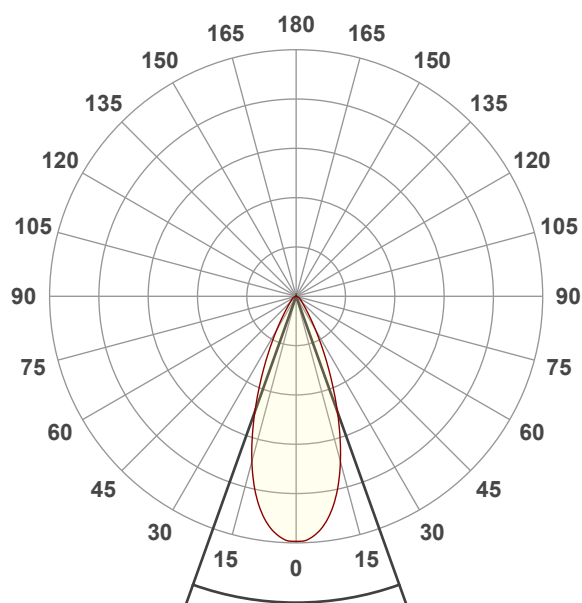
Blue

Operator:

Paolo Carvone

Date and time:

18/10/2022 14:49:14

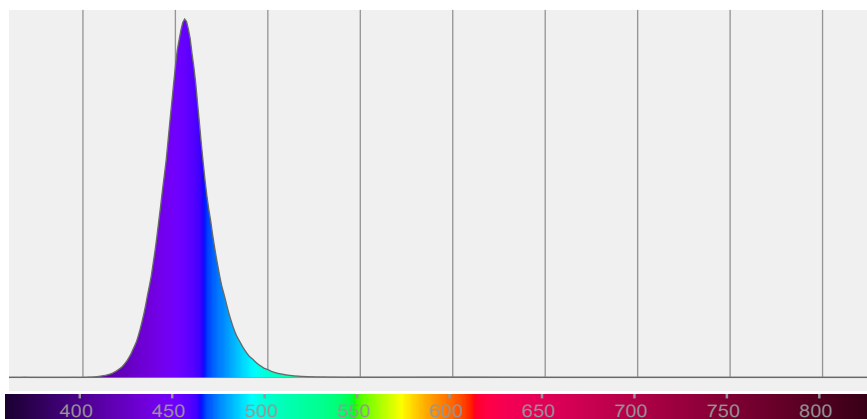


Beam angle 50%: 39,4°

Field angle 10%: 67,3°

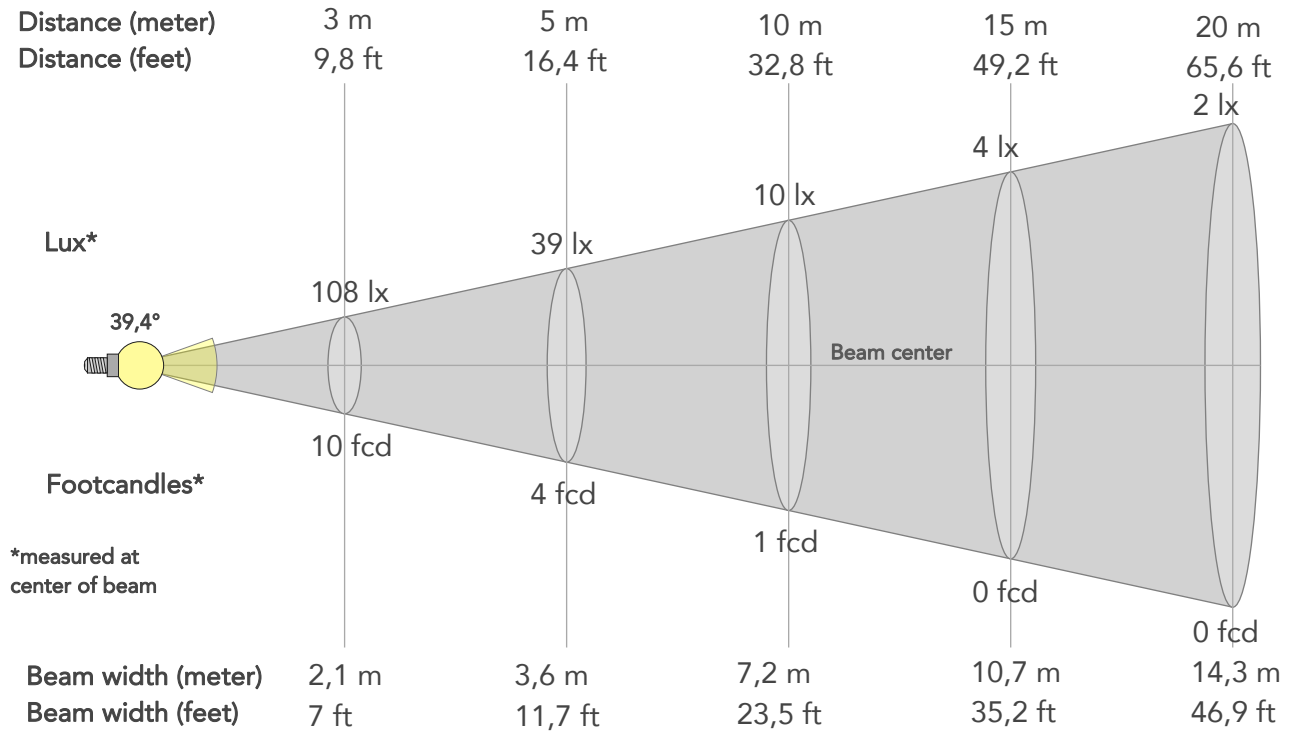
Cut off angle 2.5%: 101,3°

Spectra



BEAM DETAILS

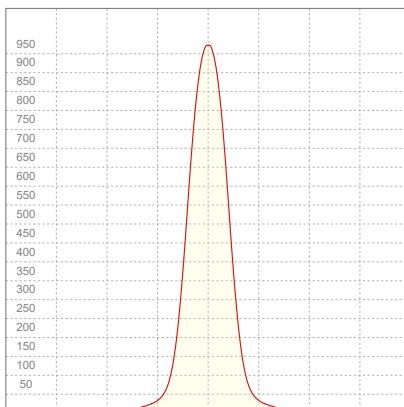
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,4°	67,3°	101,3°	96,7%	91,0%



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	972lx	243lx	108lx	61lx	39lx	17lx	10lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	90fcd	23fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,9m	3,6m	5,4m	7,2m	10,7m	14,3m	17,9m	21,5m	28,6m	35,8m
Beam wid.	2,4ft	4,7ft	7ft	9,4ft	11,7ft	17,6ft	23,5ft	35,2ft	46,9ft	58,7ft	70,4ft	93,9ft	117,3ft

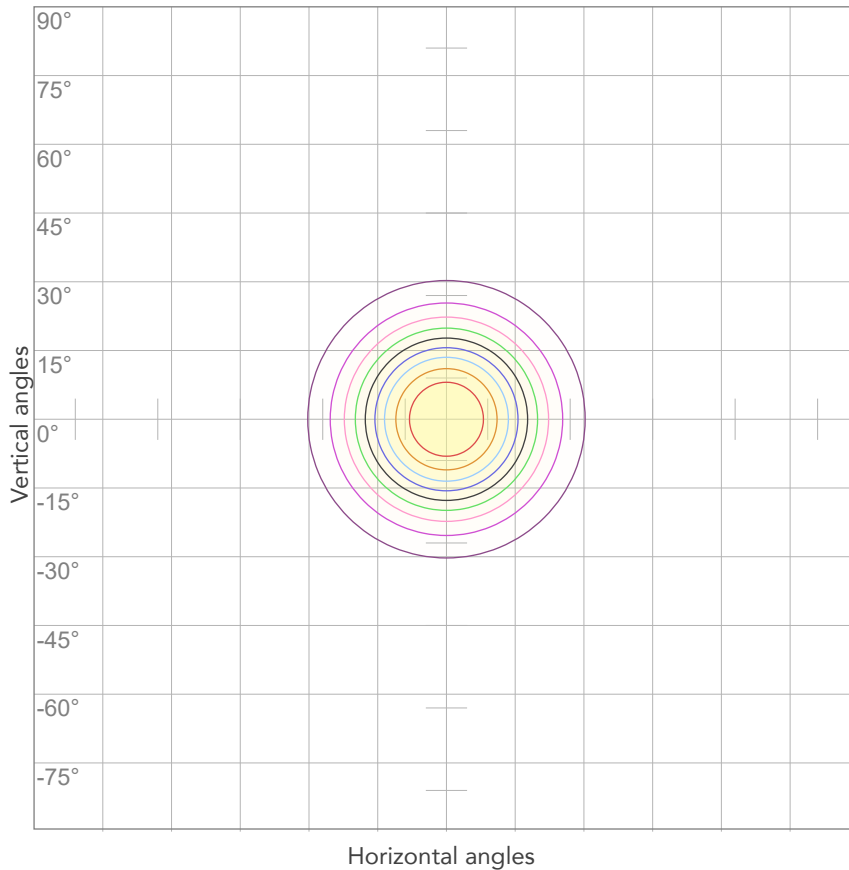
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,285A	46,7W	11lm/W
Power FC			
0,72			

ISO CANDELA DIAGRAM



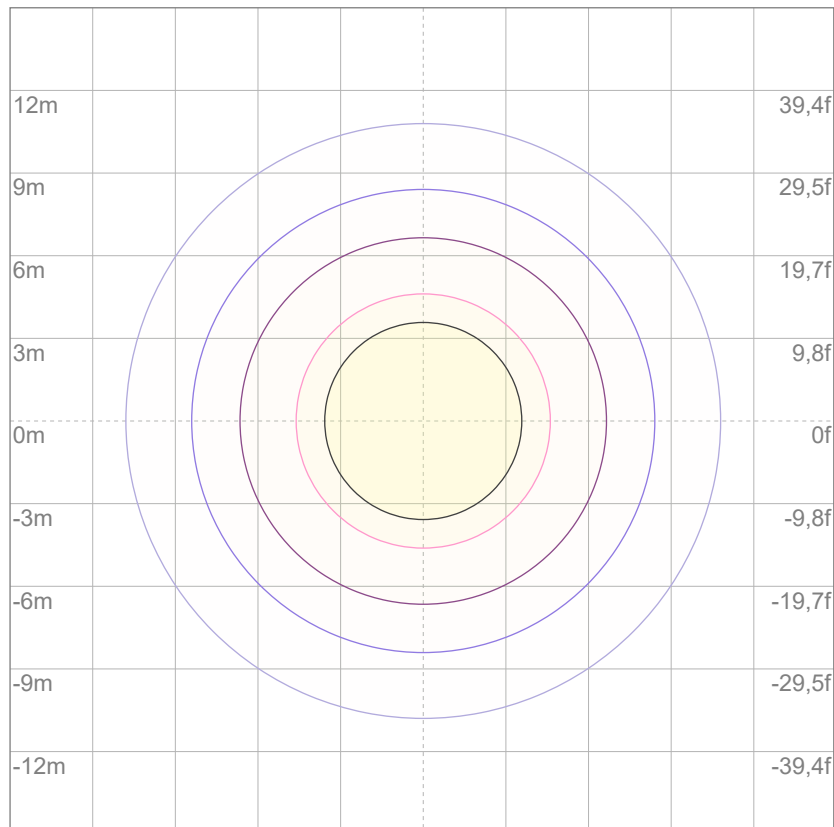
10%	97 cd
20%	194 cd
30%	292 cd
40%	389 cd
50%	486 cd
60%	583 cd
70%	681 cd
80%	778 cd

Conditions:

Number of c-planes: 2

Candela at center: 972 cd

ISO LUX DIAGRAM



3%	0,292 lx
5%	0,486 lx
10%	0,972 lx
30%	2,92 lx
50%	4,86 lx

Conditions:

Number of c-planes: 2

Lux at center: 9,72 lx

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



Total lumen output:

519 lm

Peak candela output:

549 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

60°

Target:

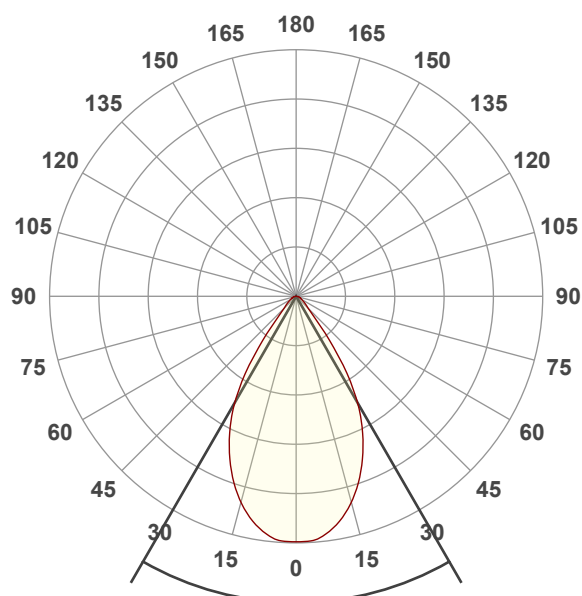
Blue

Operator:

Paolo Carvone

Date and time:

18/10/2022 14:51:51

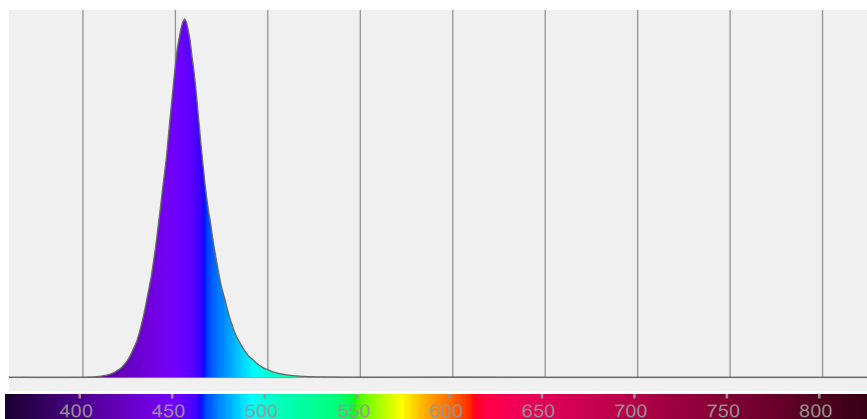


Beam angle 50%: 60°

Field angle 10%: 84,4°

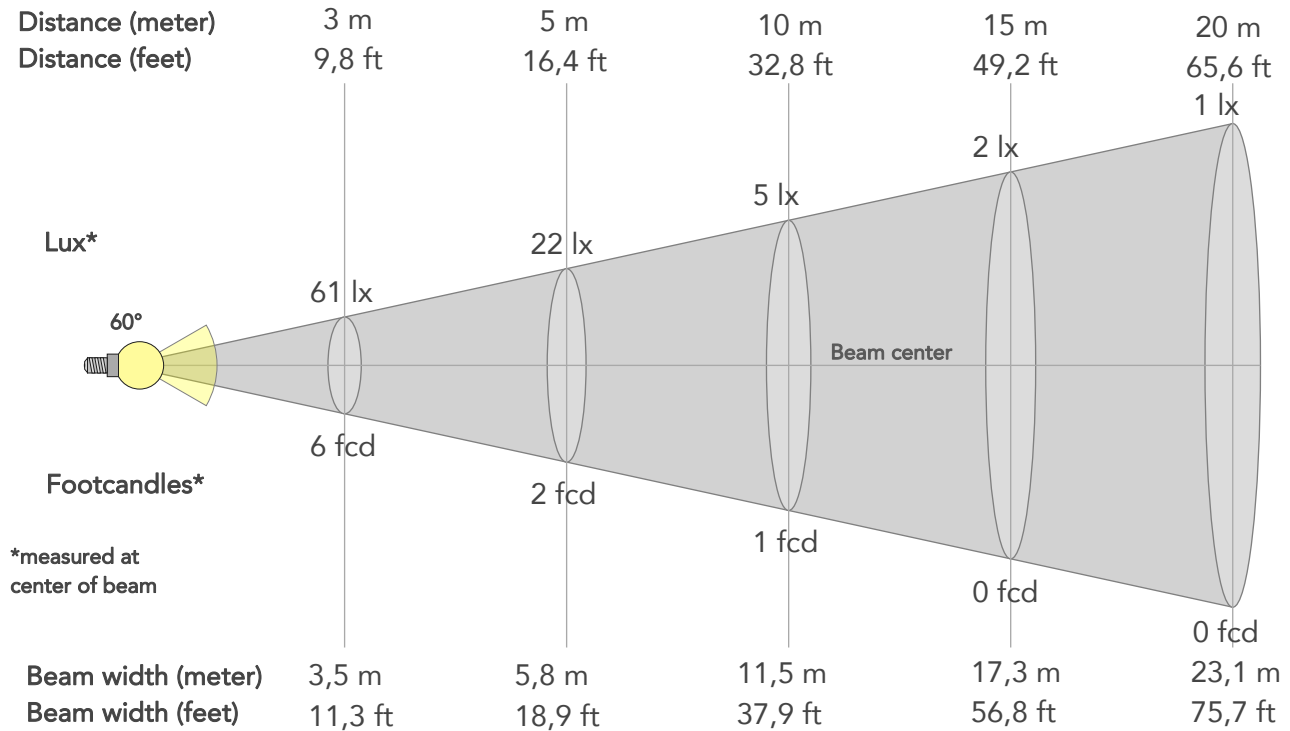
Cut off angle 2.5%: 121,7°

Spectra



BEAM DETAILS

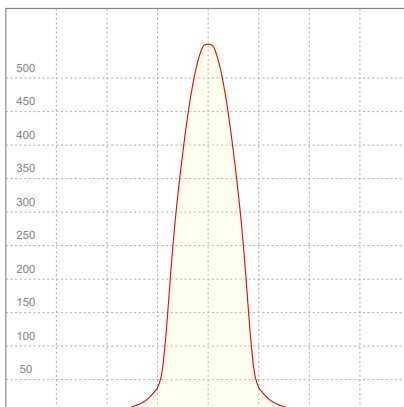
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60°	84,4°	121,7°	96,6%	90,6%



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	549lx	137lx	61lx	34lx	22lx	10lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	51fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,7m	11,5m	17,3m	23,1m	28,9m	34,6m	46,2m	57,7m
Beam wid.	3,8ft	7,6ft	11,3ft	15,1ft	18,9ft	28,4ft	37,9ft	56,8ft	75,7ft	94,6ft	113,6ft	151,4ft	189,3ft

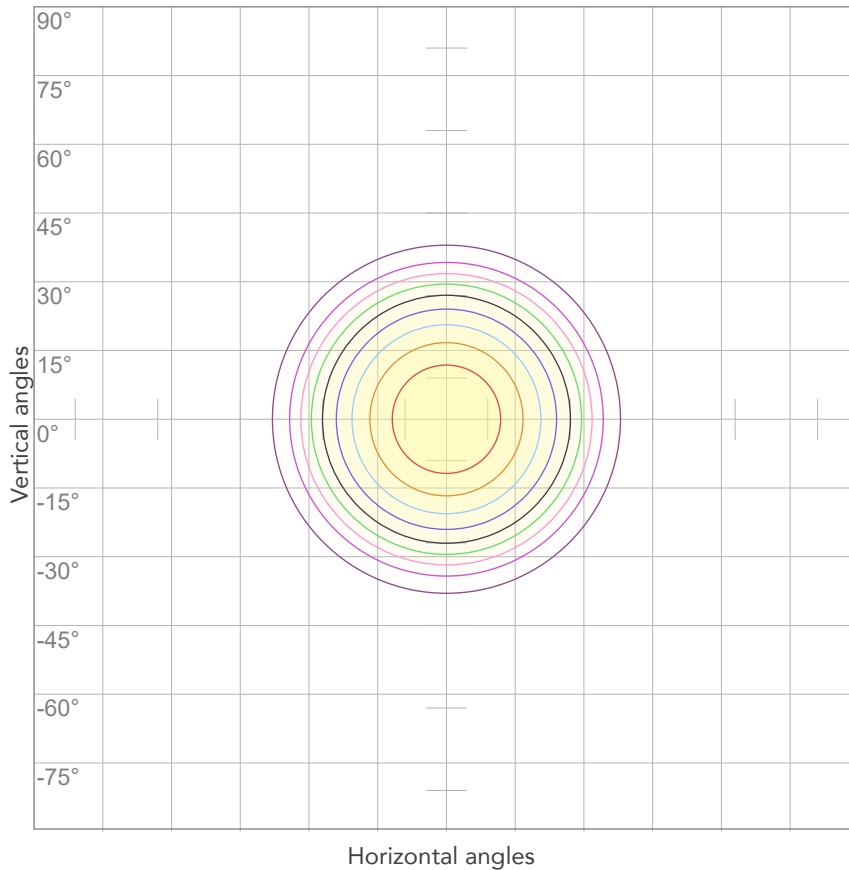
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,286A	46,8W	11lm/W
Power FC			
0,72			

ISO CANDELA DIAGRAM



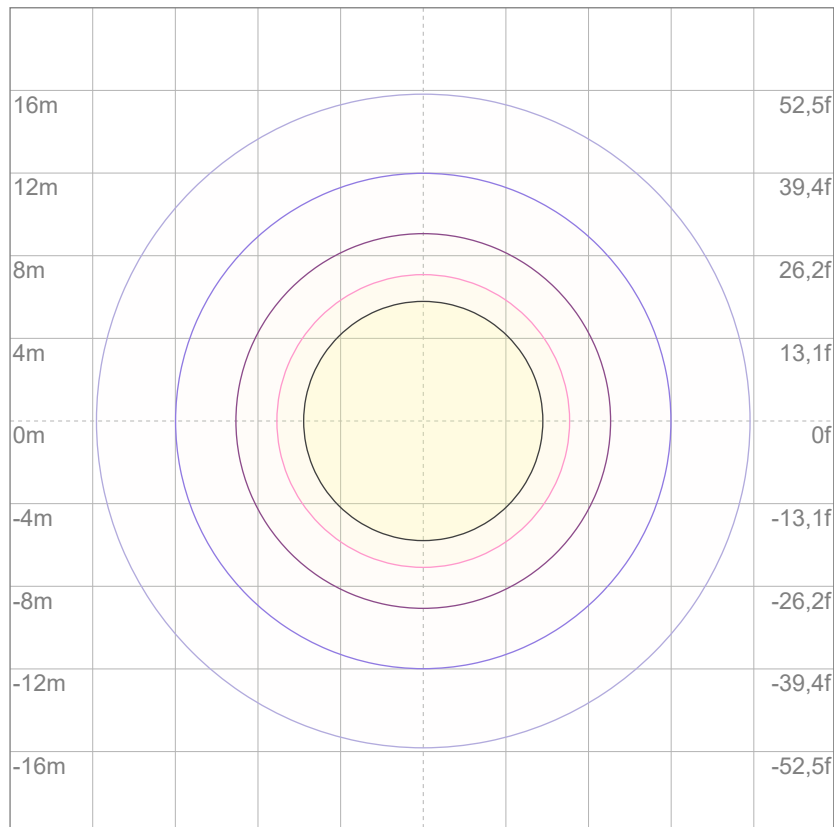
10%	55 cd
20%	110 cd
30%	165 cd
40%	220 cd
50%	275 cd
60%	329 cd
70%	384 cd
80%	439 cd

Conditions:

Number of c-planes: 2

Candela at center: 549 cd

ISO LUX DIAGRAM



3%	0,165 lx
5%	0,275 lx
10%	0,549 lx
30%	1,65 lx
50%	2,75 lx

Conditions:

Number of c-planes: 2

Lux at center: 5,49 lx

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



Total lumen output:

7102 lm

Peak candela output:

30218 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

20°

Target:

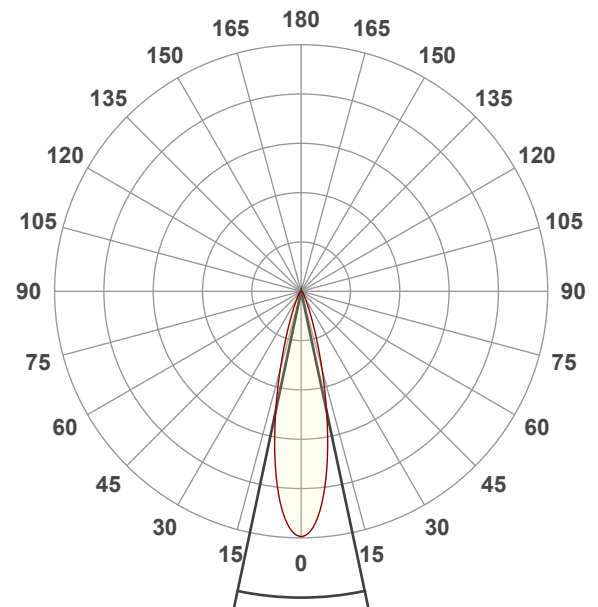
White

Operator:

Paolo Carvone

Date and time:

13/10/2022 17:12:06

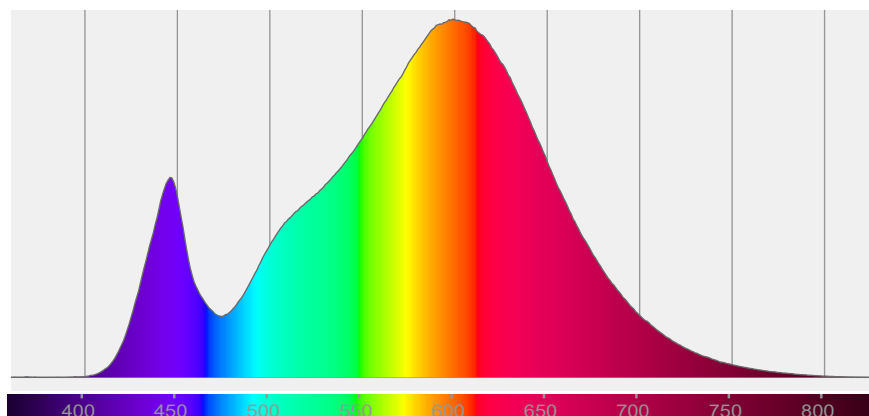


Beam angle 50%: 24°

Field angle 10%: 44,1°

Cut off angle 2.5%: 66,2°

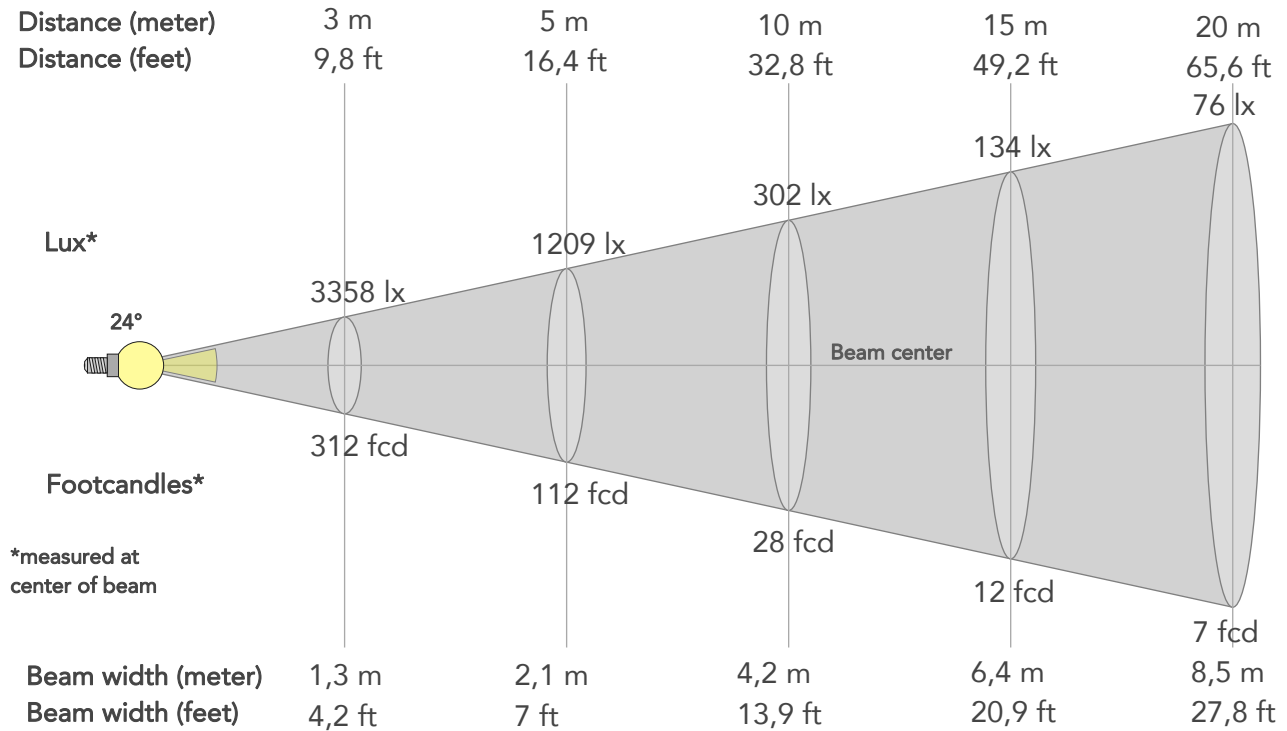
Spectra



BEAM DETAILS



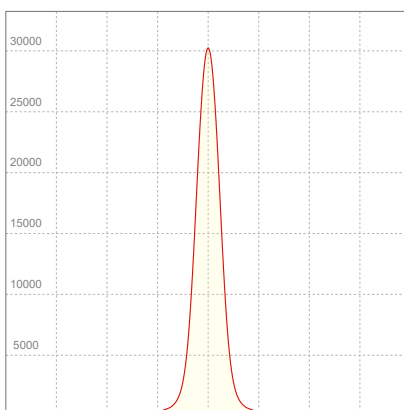
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24°	44,1°	66,2°	97,9%	92,9%



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	30218lx	7554lx	3358lx	1889lx	1209lx	537lx	302lx	134lx	76lx	48lx	34lx	19lx	12lx
Footcand.	2807fcd	702fcd	312fcd	175fcd	112fcd	50fcd	28fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,4m	0,8m	1,3m	1,7m	2,1m	3,2m	4,2m	6,4m	8,5m	10,6m	12,7m	17m	21,2m
Beam wid.	1,4ft	2,8ft	4,2ft	5,6ft	7ft	10,4ft	13,9ft	20,9ft	27,8ft	34,8ft	41,8ft	55,7ft	69,6ft

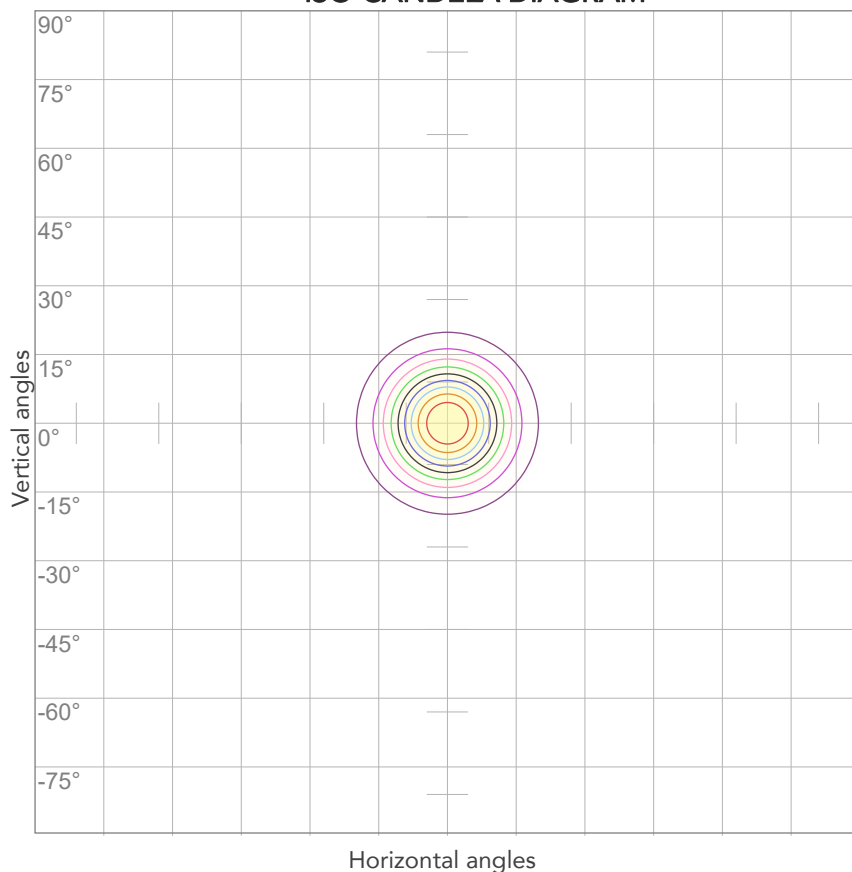
LINEAR DISTRIBUTION DIAGRAM



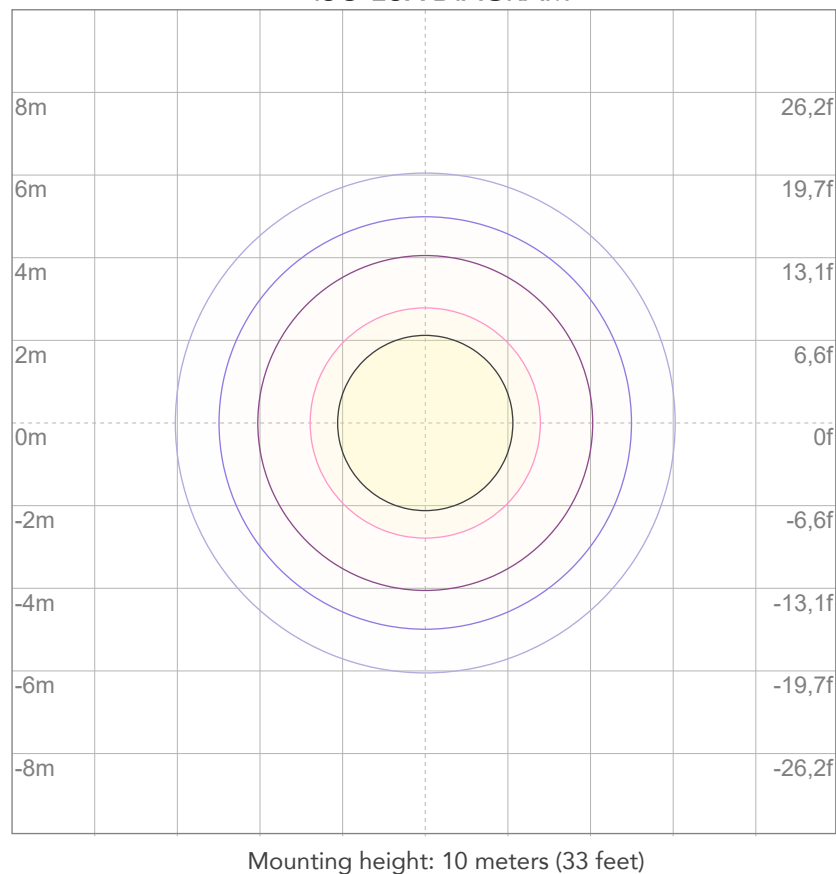
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,587A	124,3W	57lm/W
Power FC			
0,95			

ISO CANDELA DIAGRAM



ISO LUX DIAGRAM





Total lumen output:

5954 lm

Peak candela output:

10465 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

40°

Target:

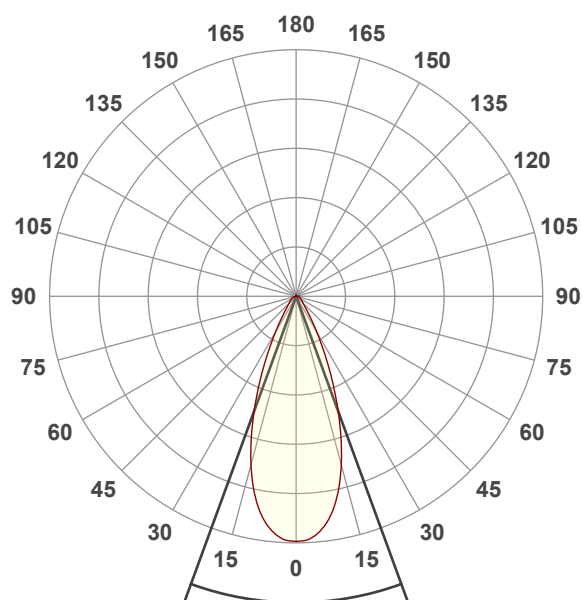
White

Operator:

Paolo Carvone

Date and time:

18/10/2022 15:20:16

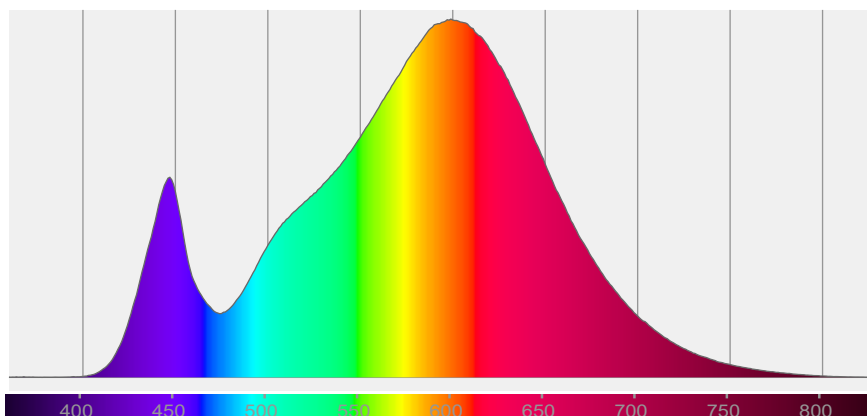


Beam angle 50%: 40,2°

Field angle 10%: 68,8°

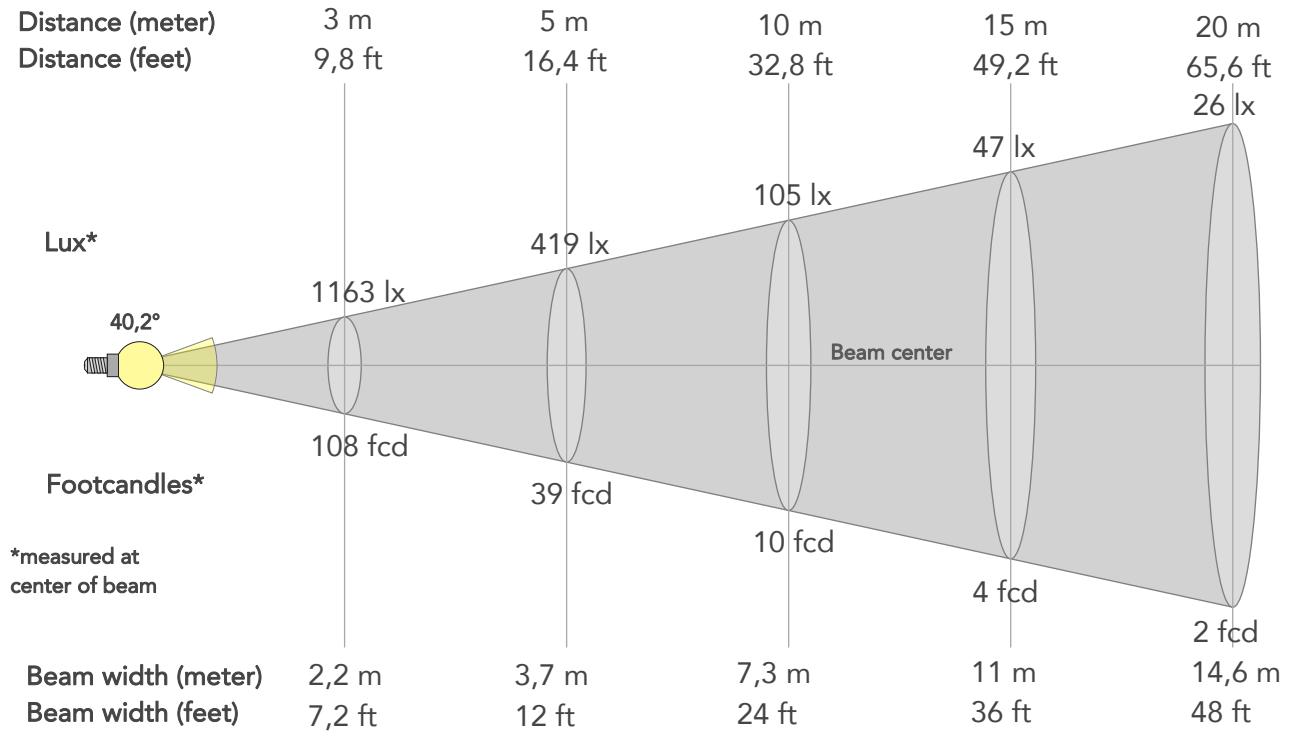
Cut off angle 2.5%: 112,5°

Spectra



BEAM DETAILS

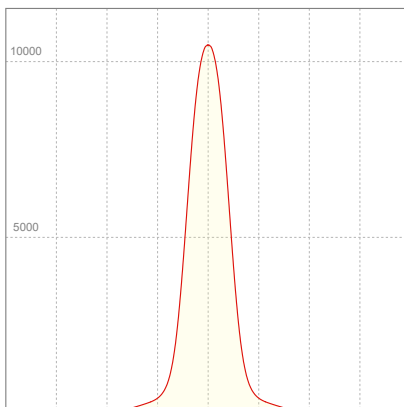
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40,2°	68,8°	112,5°	95,4%	88,7%



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	10465lx	2616lx	1163lx	654lx	419lx	186lx	105lx	47lx	26lx	17lx	12lx	7lx	4lx
Footcand.	972fcd	243fcd	108fcd	61fcd	39fcd	17fcd	10fcd	4fcd	2fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,7m	1,5m	2,2m	2,9m	3,7m	5,5m	7,3m	11m	14,6m	18,3m	21,9m	29,2m	36,6m
Beam wid.	2,4ft	4,8ft	7,2ft	9,6ft	12ft	18ft	24ft	36ft	48ft	60ft	71,9ft	95,9ft	119,9ft

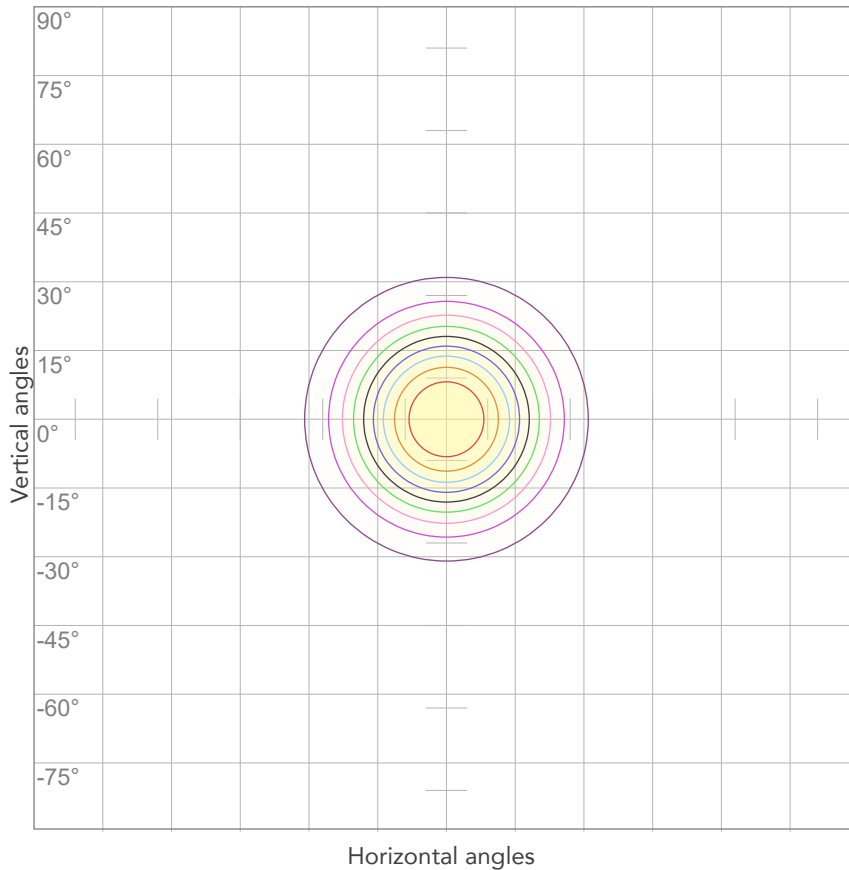
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,576A	122,9W	48lm/W
Power FC			
0,94			

ISO CANDELA DIAGRAM



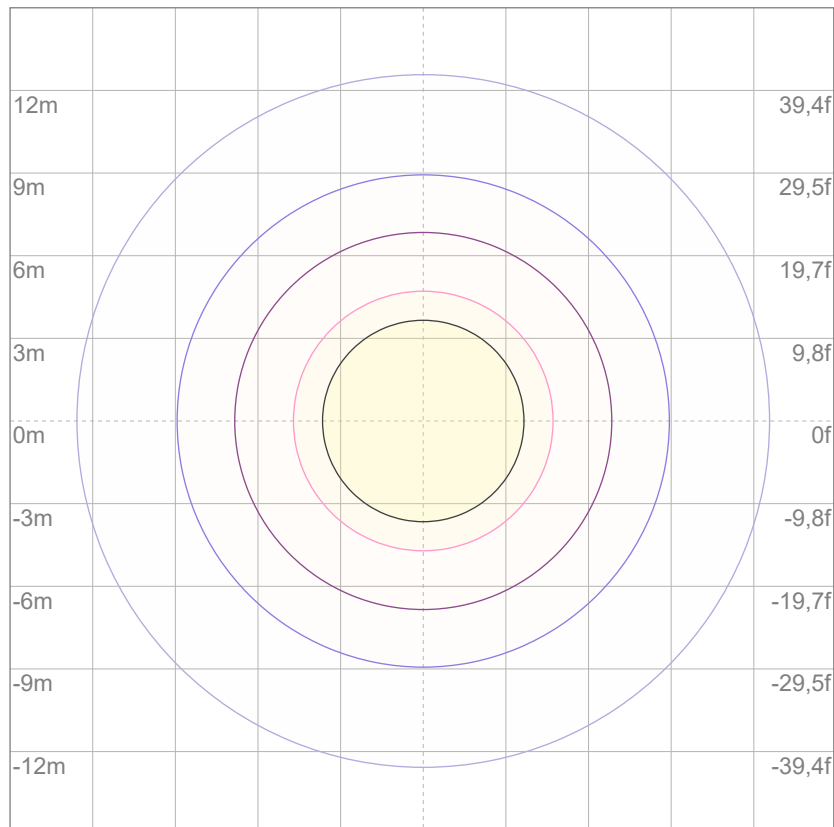
10%	1047 cd
20%	2093 cd
30%	3140 cd
40%	4186 cd
50%	5233 cd
60%	6279 cd
70%	7326 cd
80%	8372 cd

Conditions:

Number of c-planes: 2

Candela at center: 10465 cd

ISO LUX DIAGRAM



3%	3,14 lx
5%	5,23 lx
10%	10,5 lx
30%	31,4 lx
50%	52,3 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:

5817 lm

Peak candela output:

5658 cd

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

60°

Target:

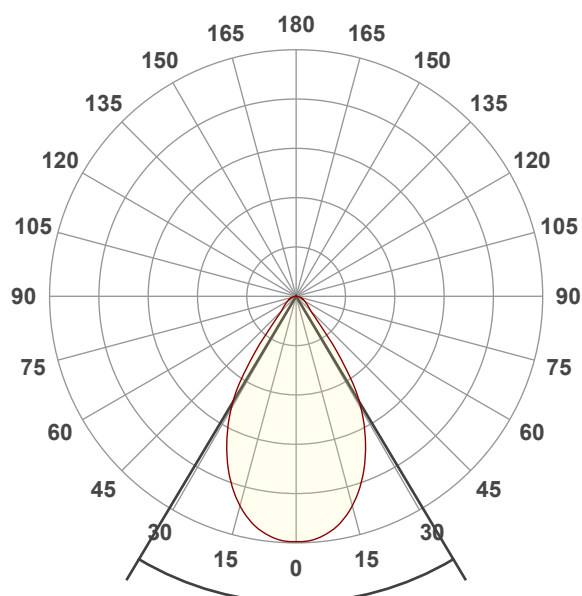
White

Operator:

Paolo Carvone

Date and time:

18/10/2022 15:22:31

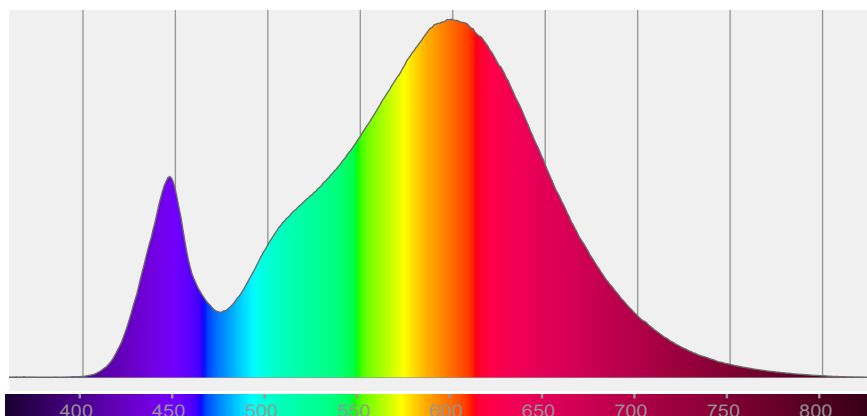


Beam angle 50%: 61,8°

Field angle 10%: 86,7°

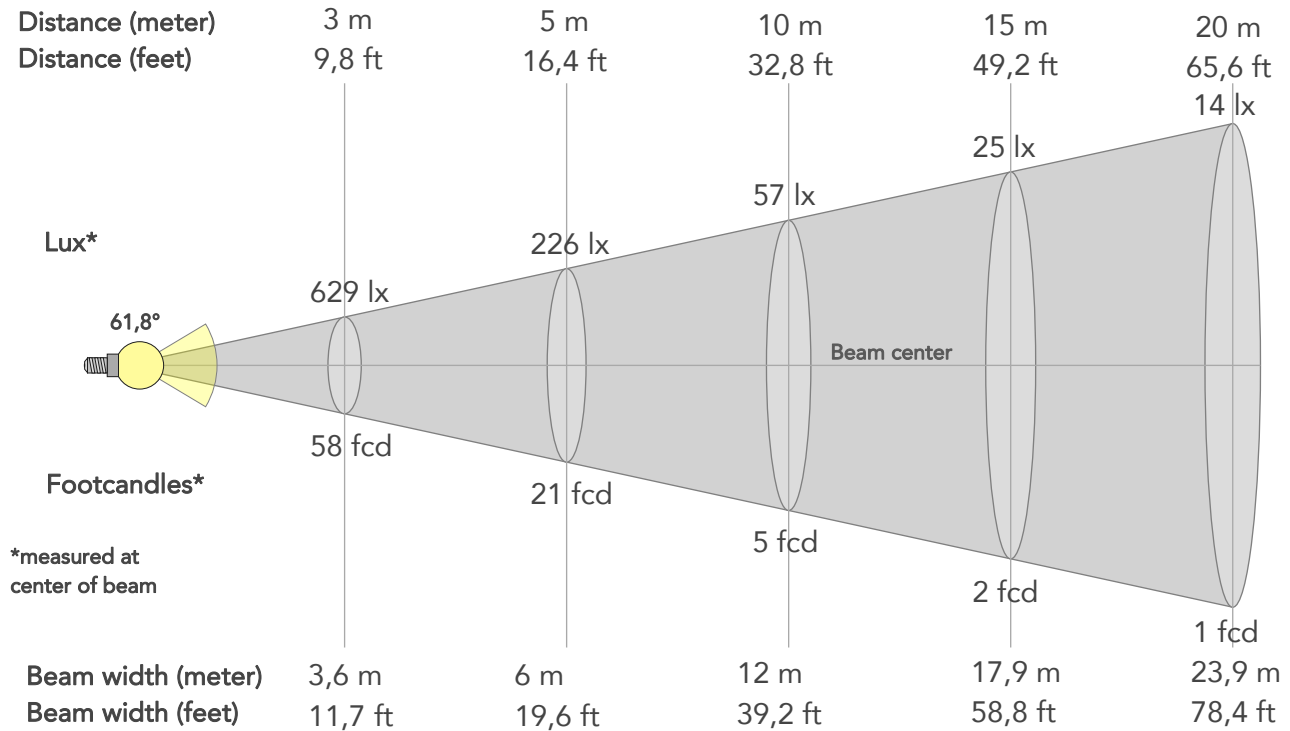
Cut off angle 2.5%: 139,6°

Spectra



BEAM DETAILS

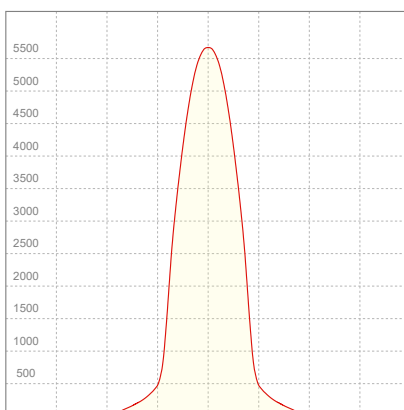
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
61,8°	86,7°	139,6°	94,6%	87,2%



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	5658lx	1415lx	629lx	354lx	226lx	101lx	57lx	25lx	14lx	9lx	6lx	4lx	2lx
Footcand.	526fcd	131fcd	58fcd	33fcd	21fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,8m	6m	9m	12m	17,9m	23,9m	29,9m	35,9m	47,8m	59,8m
Beam wid.	3,9ft	7,9ft	11,7ft	15,7ft	19,6ft	29,4ft	39,2ft	58,8ft	78,4ft	98,1ft	117,7ft	156,9ft	196,1ft

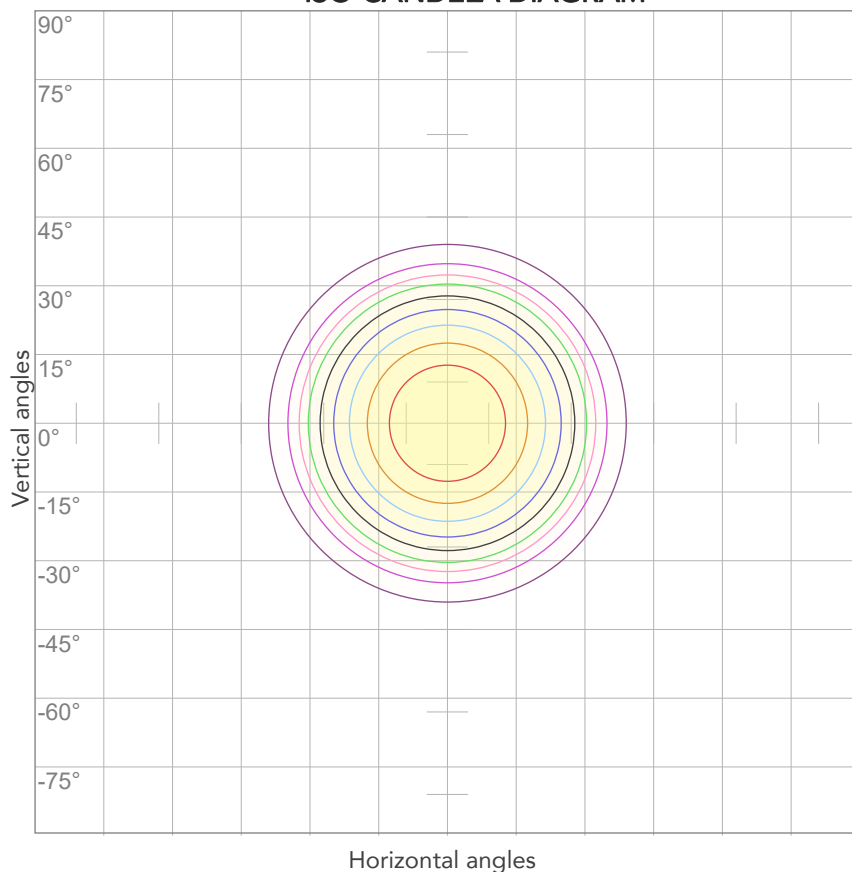
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,574A	122,6W	47lm/W
Power FC			
0,94			

ISO CANDELA DIAGRAM



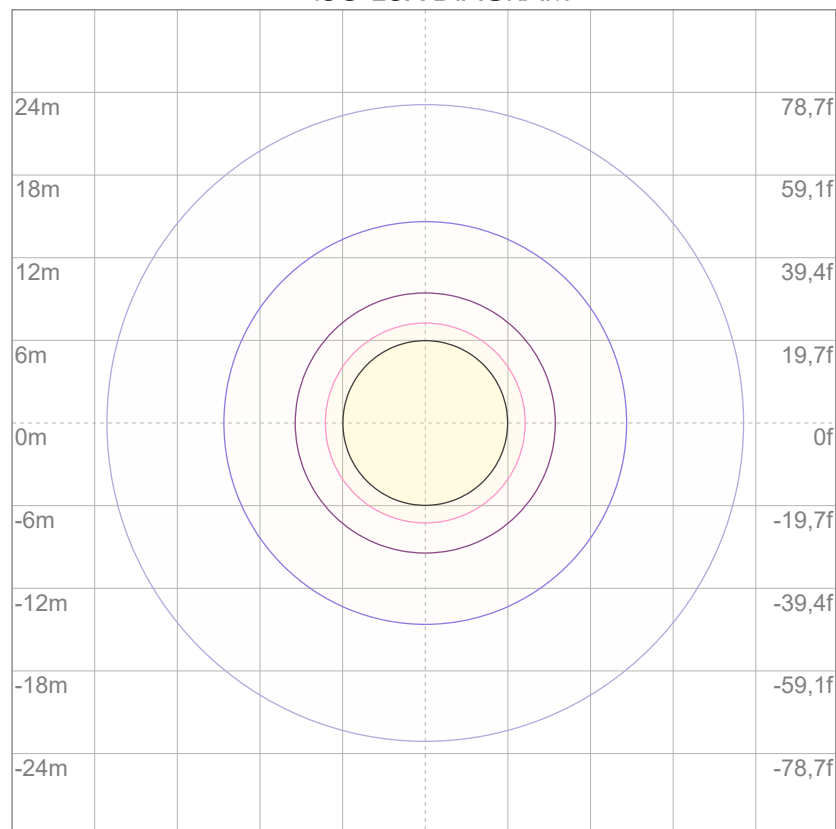
10%	566 cd
20%	1132 cd
30%	1697 cd
40%	2263 cd
50%	2829 cd
60%	3395 cd
70%	3961 cd
80%	4527 cd

Conditions:

Number of c-planes: 2

Candela at center: 5658 cd

ISO LUX DIAGRAM



3%	1,70 lx
5%	2,83 lx
10%	5,66 lx
30%	17,0 lx
50%	28,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 56,6 lx

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



Total lumen output:

6399 lm

Peak candela output:

30256 cd

Light quality:

CRI: 92,7

Color temperature:

2818 K

PRODUCT NAME:
ECLPENDANT FC

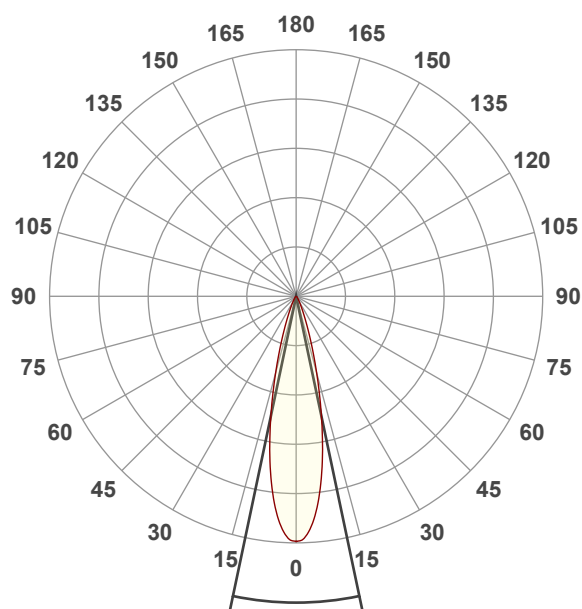
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
2800K

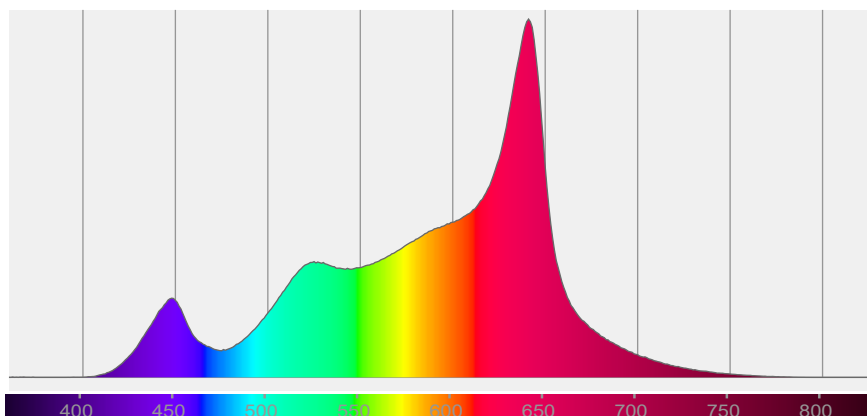
Operator:
Paolo Carvone

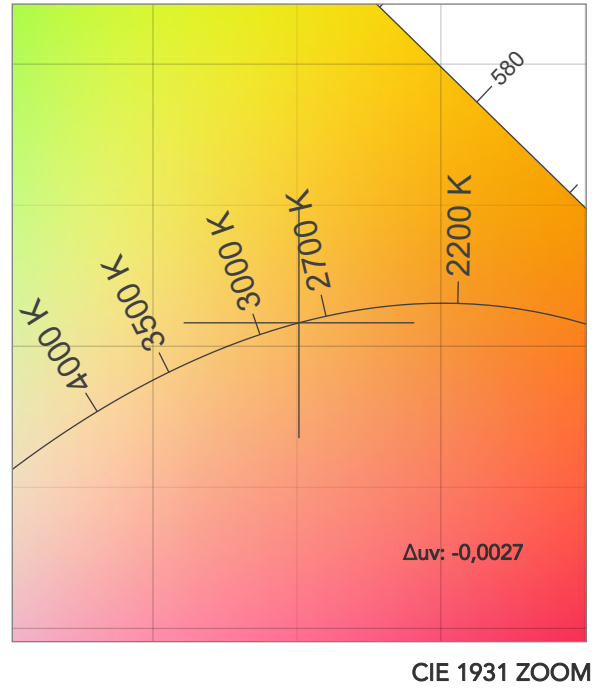
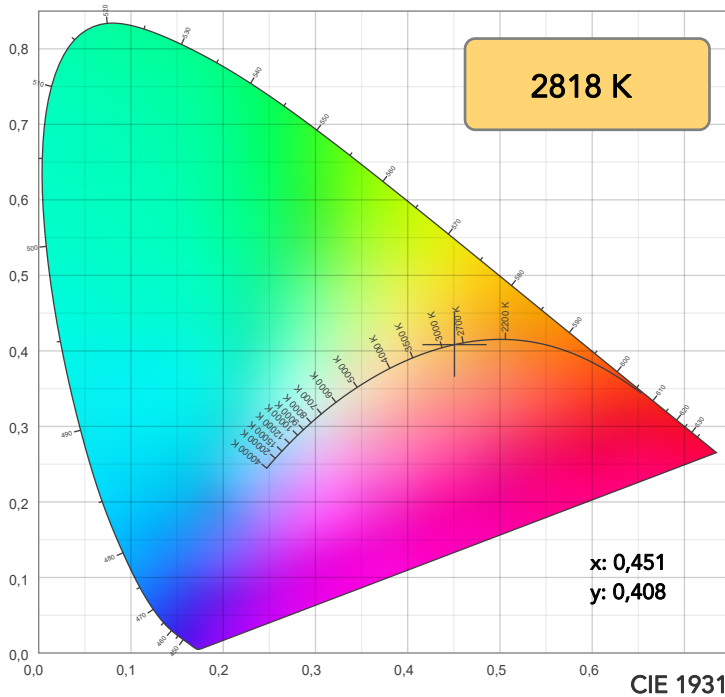
Date and time:
18/10/2022 13:18:48



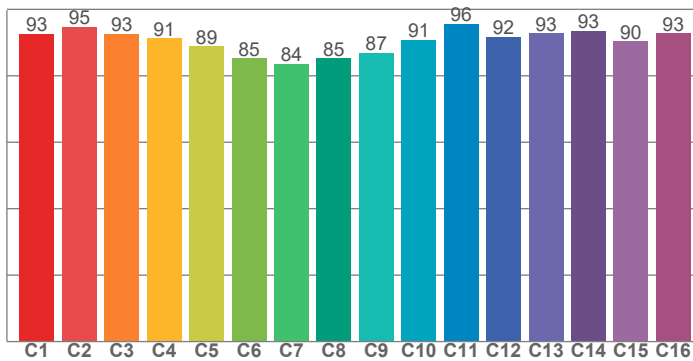
Beam angle 50%: 23,8°
Field angle 10%: 43,4°
Cut off angle 2.5%: 60,8°

Spectra

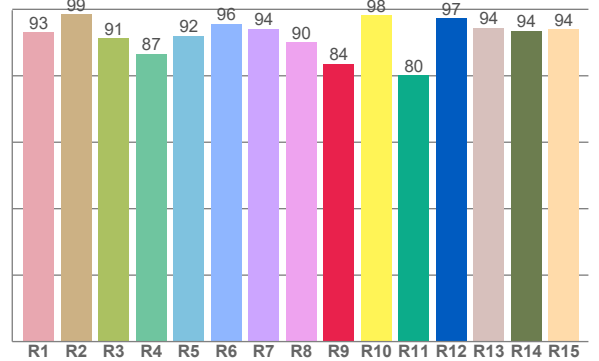




TM30: 91,0



CRI: 92,7 (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
93,2	98,6	91,3	86,6	92,1	95,7	94,2	90,1	83,7	98,2	80,2	97,3	94,5	93,5	94,0

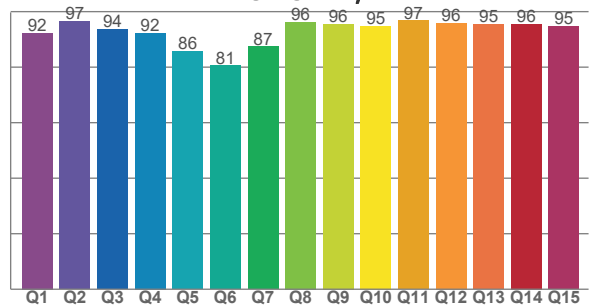
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,6	94,7	92,7	91,3	88,9	85,2	83,7	85,2	86,9	90,8	95,6	91,7	92,7	93,5	90,4	92,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,4	96,5	93,6	92,4	85,7	80,6	87,4	96,2	95,5	94,8	96,8	95,9	95,5	95,6	94,7

CQS: 91,1



COLOR PARAMETERS

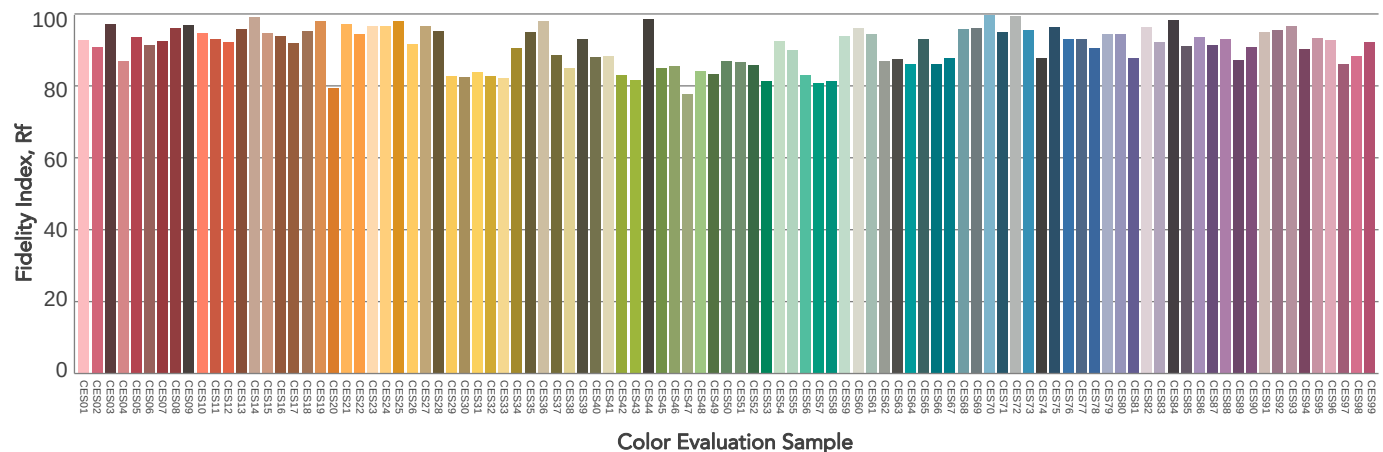
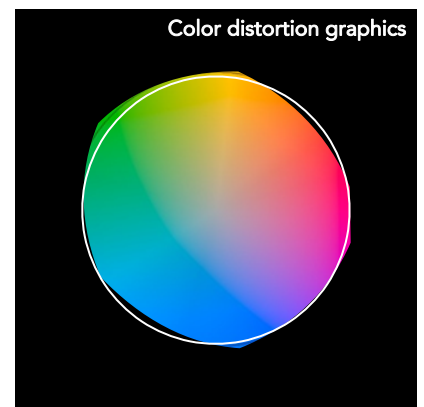
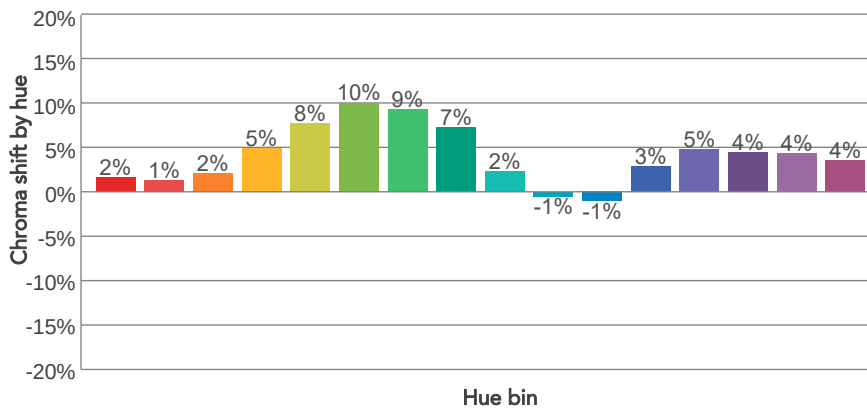
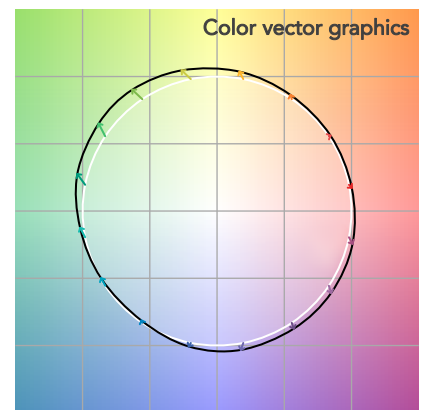
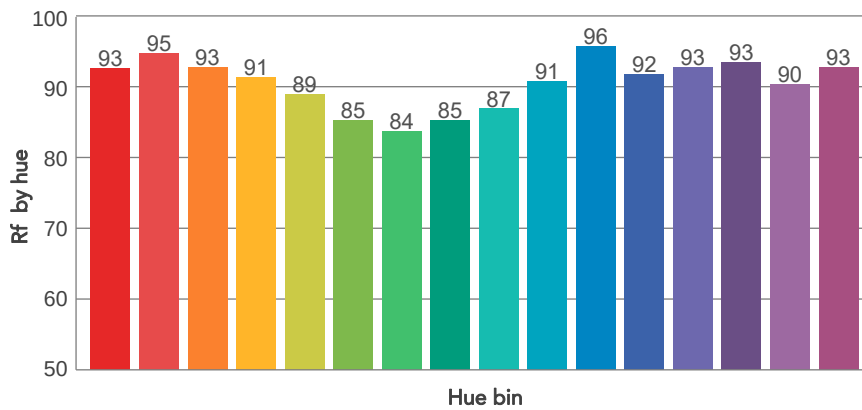
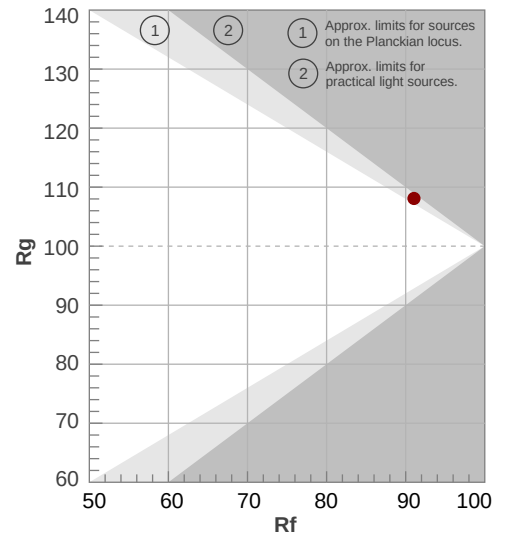
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2818 K	92,7	83,7	91,0	108,1	91,1	85	0,451	0,408	-0,0027

TM30 DETAILS

Rf 91,0
Fidelity index Rf

Rg 108,1
Gammut index

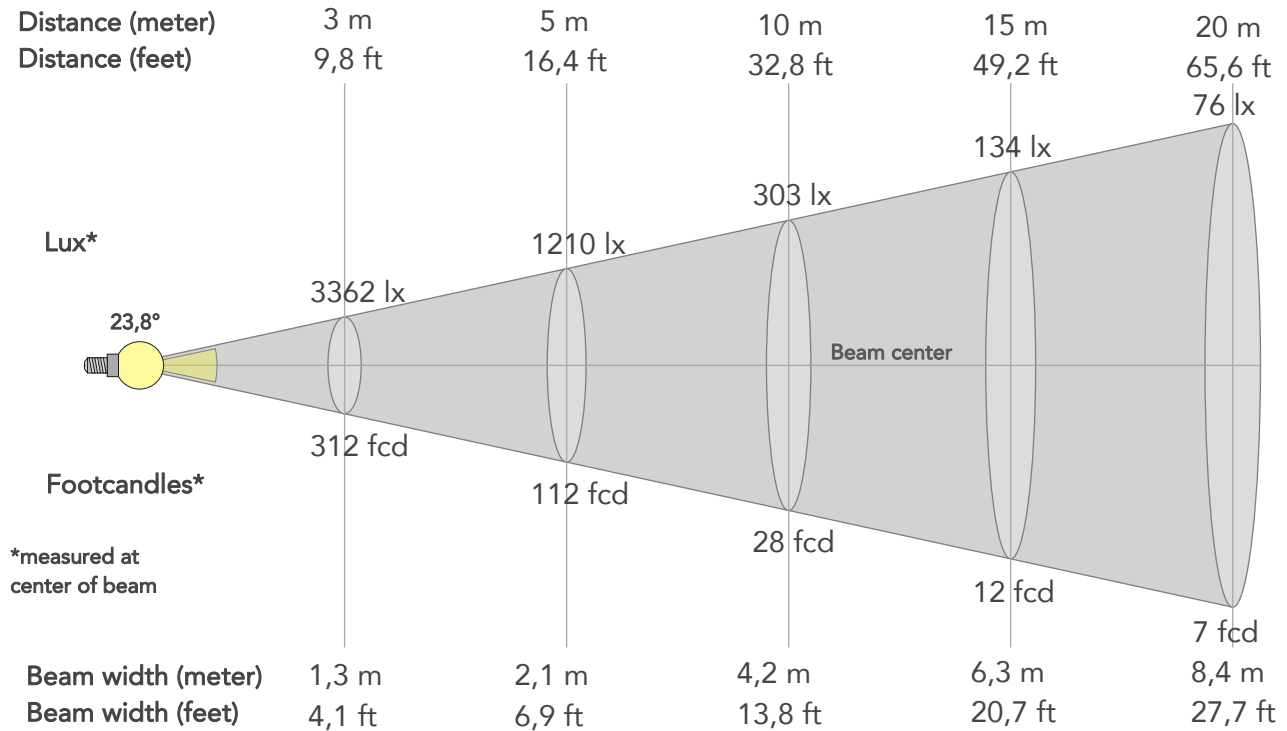
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-3%
2	95	1%	0%
3	93	2%	3%
4	91	5%	4%
5	89	8%	5%
6	85	10%	2%
7	84	9%	-5%
8	85	7%	-7%
9	87	2%	-8%
10	91	-1%	-6%
11	96	-1%	-2%
12	92	3%	-1%
13	93	5%	-3%
14	93	4%	-1%
15	90	4%	-3%
16	93	4%	-4%



BEAM DETAILS



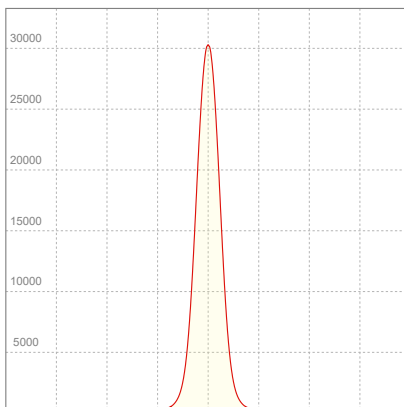
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,8°	43,4°	60,8°	99,8%	97,7%



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	30256lx	7564lx	3362lx	1891lx	1210lx	538lx	303lx	134lx	76lx	48lx	34lx	19lx	12lx
Footcand.	2811fcd	703fcd	312fcd	176fcd	112fcd	50fcd	28fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,4m	0,8m	1,3m	1,7m	2,1m	3,2m	4,2m	6,3m	8,4m	10,5m	12,7m	16,9m	21,1m
Beam wid.	1,4ft	2,8ft	4,1ft	5,5ft	6,9ft	10,4ft	13,8ft	20,7ft	27,7ft	34,6ft	41,5ft	55,3ft	69,2ft

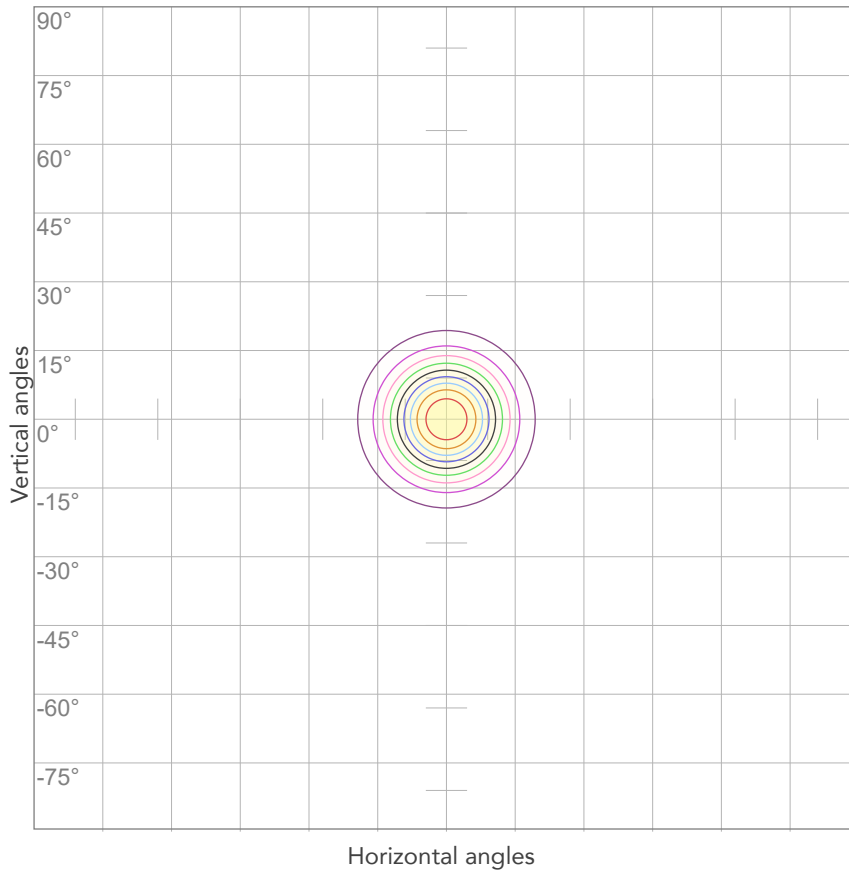
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,728A	155,9W	41lm/W

ISO CANDELA DIAGRAM



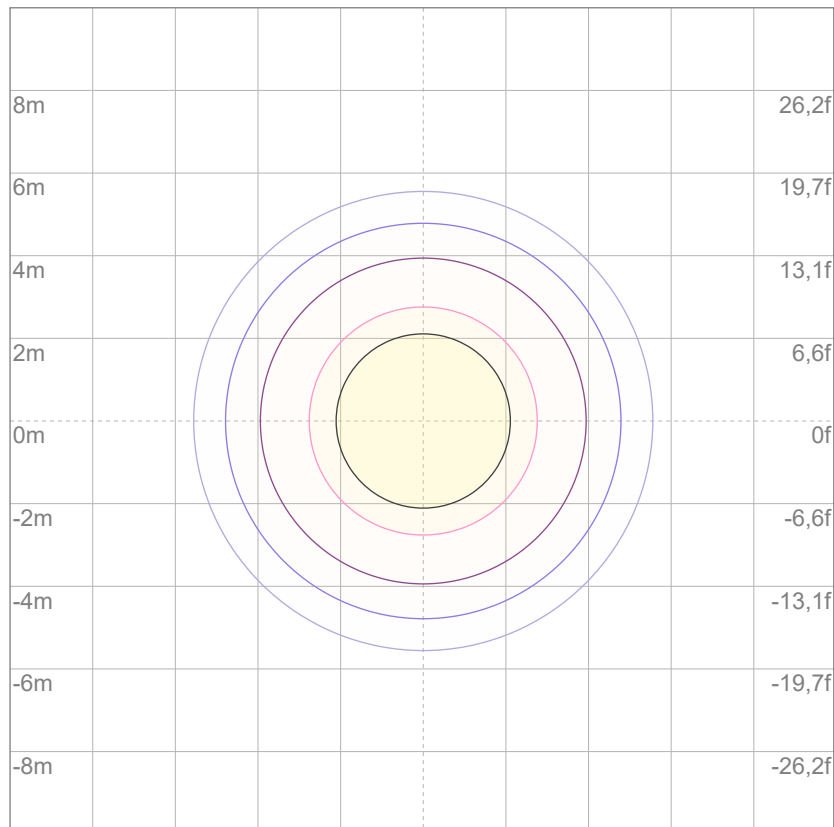
10%	3026 cd
20%	6051 cd
30%	9077 cd
40%	12102 cd
50%	15128 cd
60%	18154 cd
70%	21179 cd
80%	24205 cd

Conditions:

Number of c-planes: 2

Candela at center: 30256 cd

ISO LUX DIAGRAM



3%	9,08 lx
5%	15,1 lx
10%	30,3 lx
30%	90,8 lx
50%	151 lx

Conditions:

Number of c-planes: 2

Lux at center: 303 lx

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



Total lumen output:

6795 lm

Peak candela output:

12502 cd

Light quality:

CRI: 93,3

Color temperature:

2818 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

40°

Target:

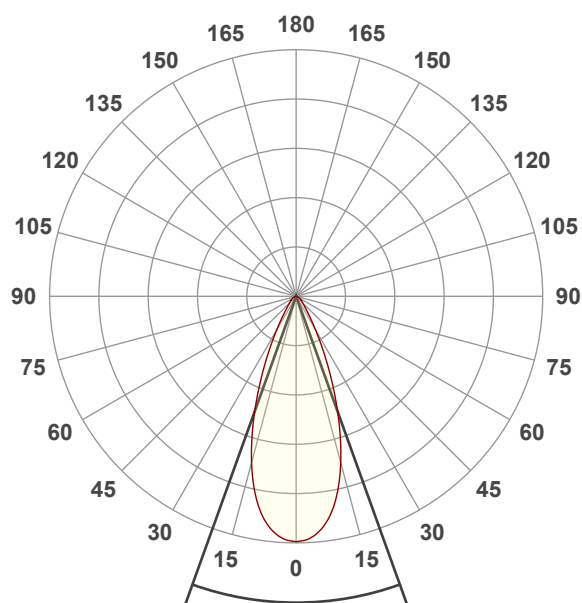
2800K

Operator:

Paolo Carvone

Date and time:

18/10/2022 13:33:36

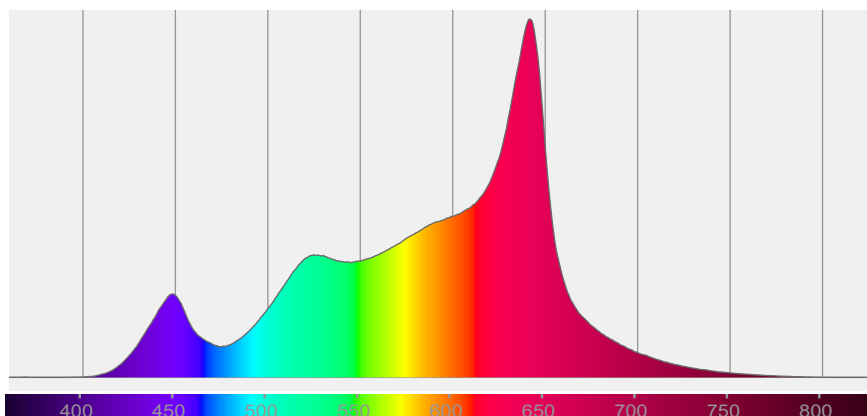


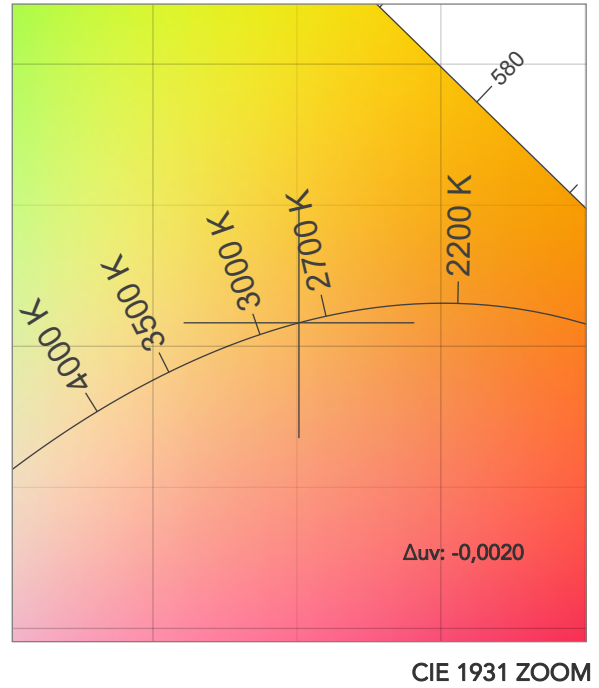
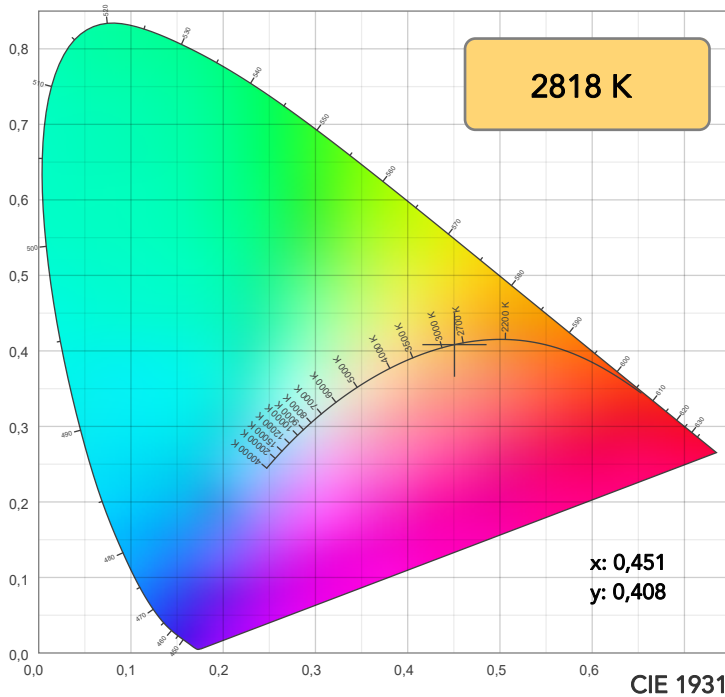
Beam angle 50%: 39,6°

Field angle 10%: 67,6°

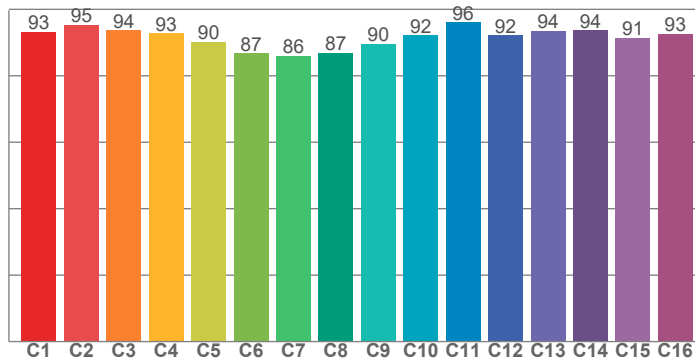
Cut off angle 2.5%: 106,4°

Spectra

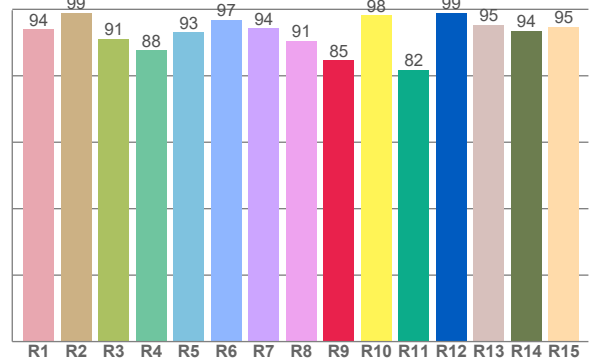




TM30: 92,1



CRI: 93,3 (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
94,0	98,9	91,2	87,7	93,2	96,8	94,3	90,6	84,6	98,2	81,8	99,0	95,3	93,6	94,8

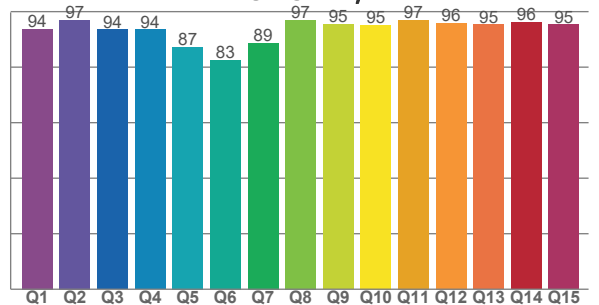
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,3	95,4	93,7	92,8	90,2	86,7	85,9	86,9	89,7	92,1	96,1	92,2	93,5	93,7	91,4	92,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,7	96,9	93,5	93,5	87,3	82,6	88,8	97,0	95,4	95,2	96,9	95,8	95,4	96,2	95,4

CQS: 92,1



COLOR PARAMETERS

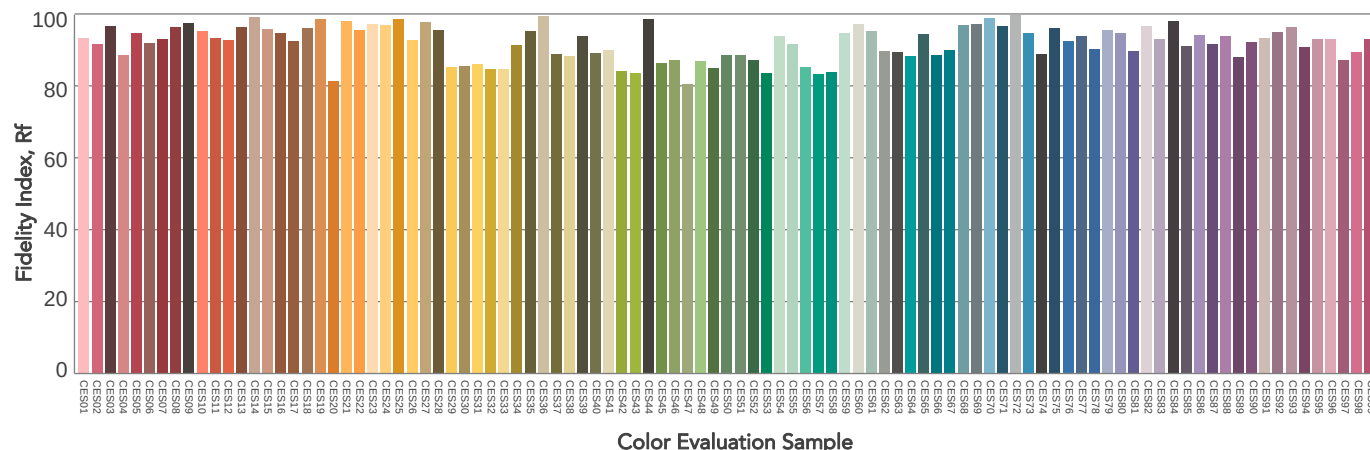
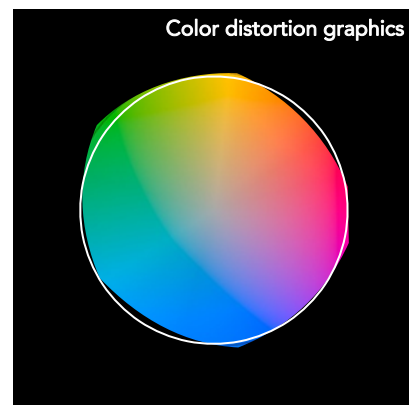
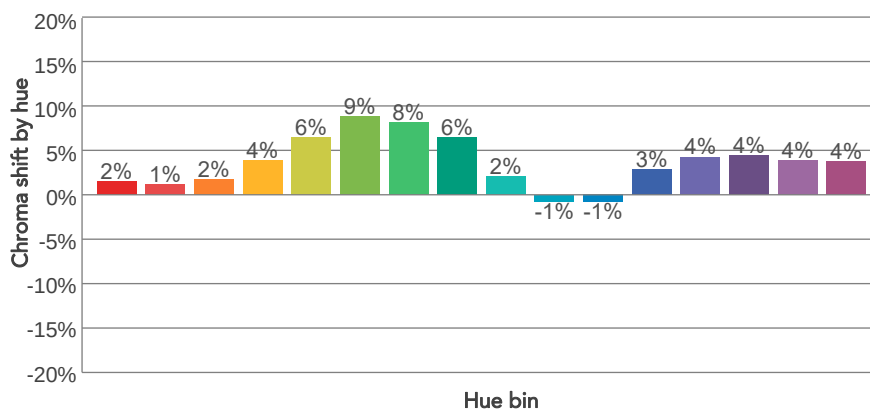
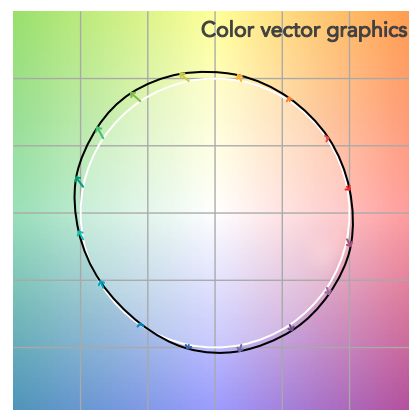
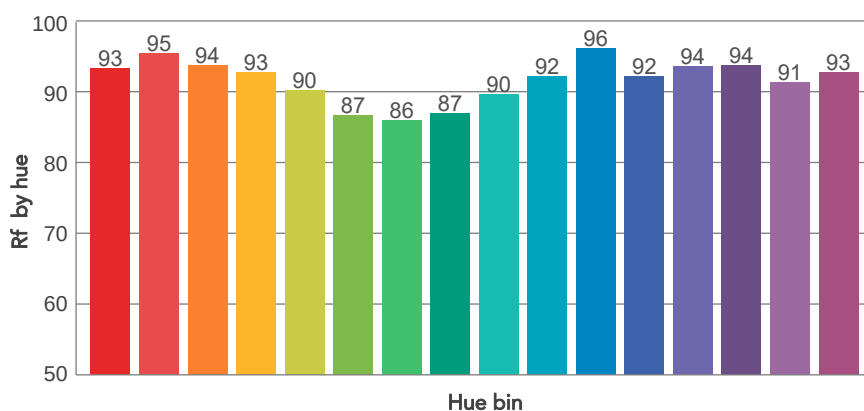
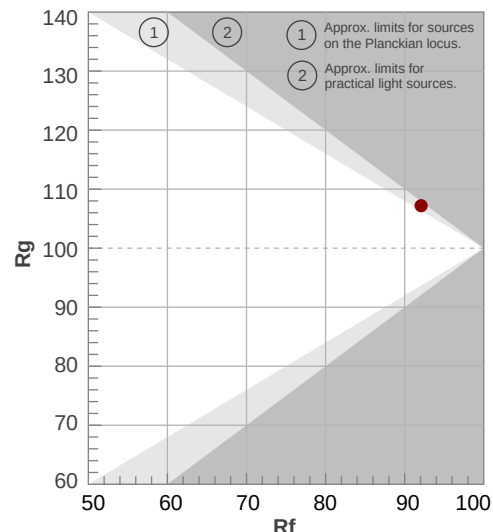
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2818 K	93,3	84,6	92,1	107,2	92,1	86	0,451	0,408	-0,0020

TM30 DETAILS

Rf 92,1
Fidelity index Rf

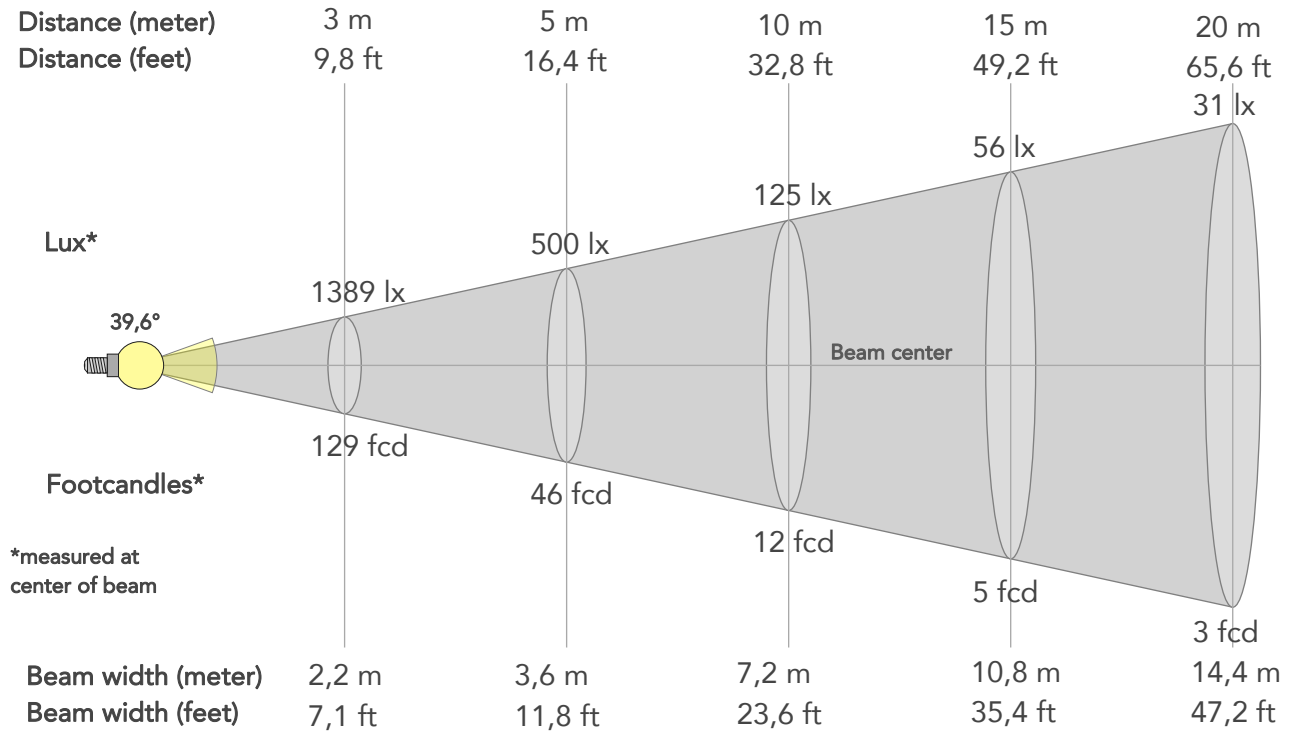
Rg 107,2
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	95	1%	0%
3	94	2%	2%
4	93	4%	3%
5	90	6%	5%
6	87	9%	2%
7	86	8%	-4%
8	87	6%	-6%
9	90	2%	-6%
10	92	-1%	-5%
11	96	-1%	-1%
12	92	3%	0%
13	94	4%	-2%
14	94	4%	-1%
15	91	4%	-3%
16	93	4%	-4%



BEAM DETAILS

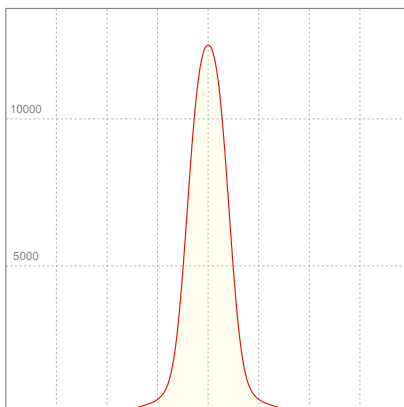
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,6°	67,6°	106,4°	96,6%	90,4%



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	12502lx	3126lx	1389lx	781lx	500lx	222lx	125lx	56lx	31lx	20lx	14lx	8lx	5lx
Footcand.	1161fcd	290fcd	129fcd	73fcd	46fcd	21fcd	12fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,7m	1,4m	2,2m	2,9m	3,6m	5,4m	7,2m	10,8m	14,4m	18m	21,6m	28,8m	36m
Beam wid.	2,4ft	4,7ft	7,1ft	9,4ft	11,8ft	17,7ft	23,6ft	35,4ft	47,2ft	59ft	70,8ft	94,4ft	118ft

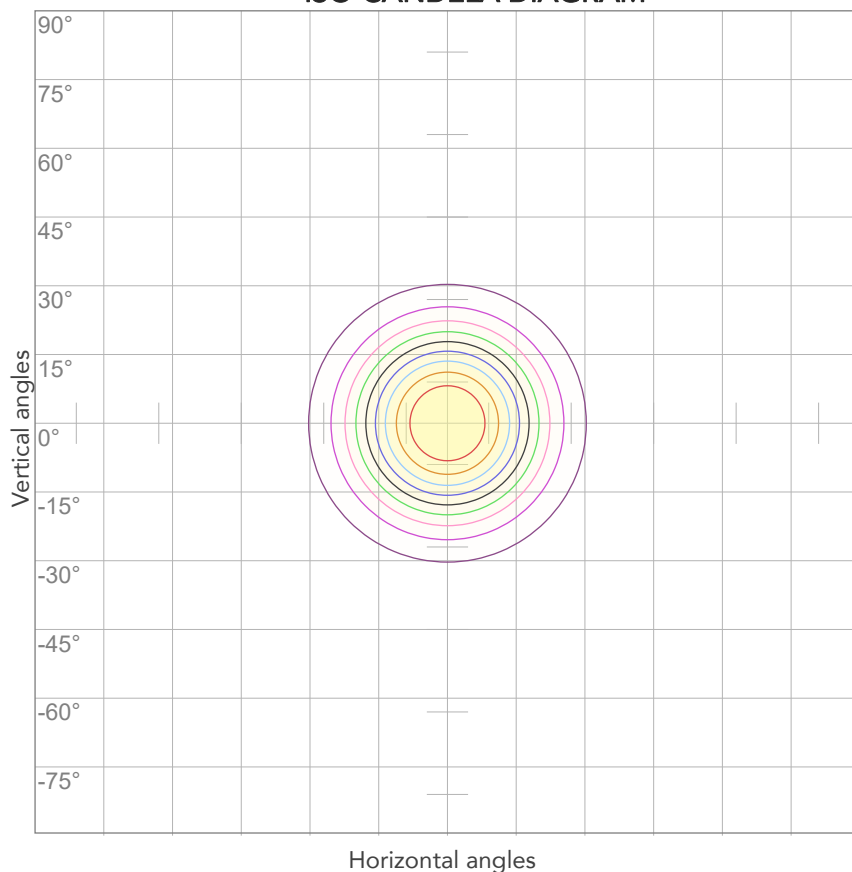
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,719A	155W	44lm/W

ISO CANDELA DIAGRAM



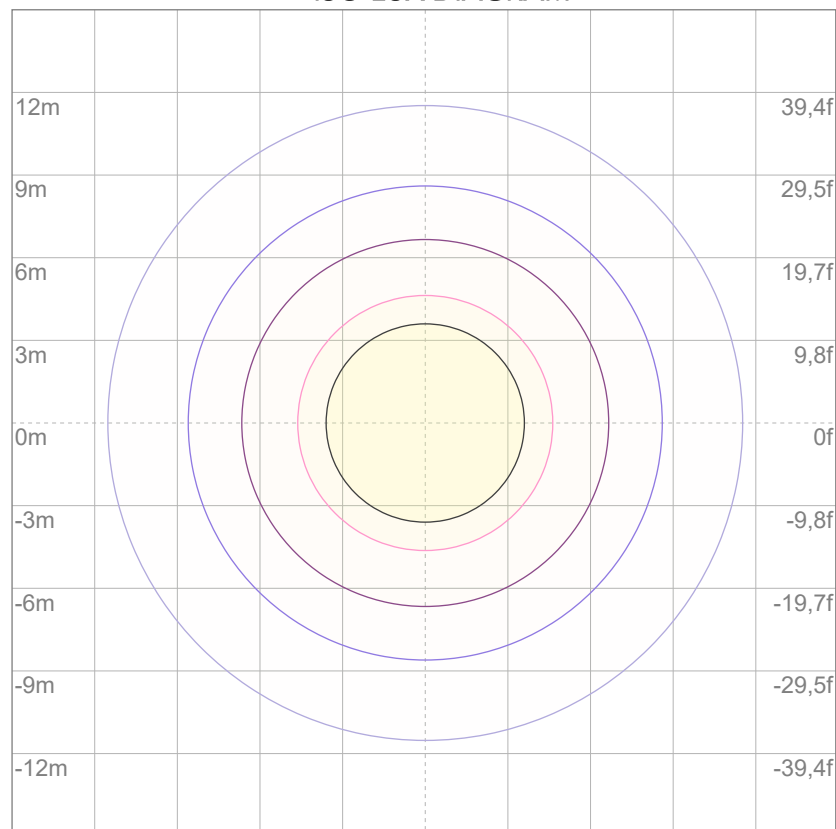
10%	1250 cd
20%	2500 cd
30%	3751 cd
40%	5001 cd
50%	6251 cd
60%	7501 cd
70%	8752 cd
80%	10002 cd

Conditions:

Number of c-planes: 2

Candela at center: 12502 cd

ISO LUX DIAGRAM



3%	3,75 lx
5%	6,25 lx
10%	12,5 lx
30%	37,5 lx
50%	62,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 125 lx

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



Total lumen output:

6638 lm

Peak candela output:

6837 cd

Light quality:

CRI: 93,1

Color temperature:

2818 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

60°

Target:

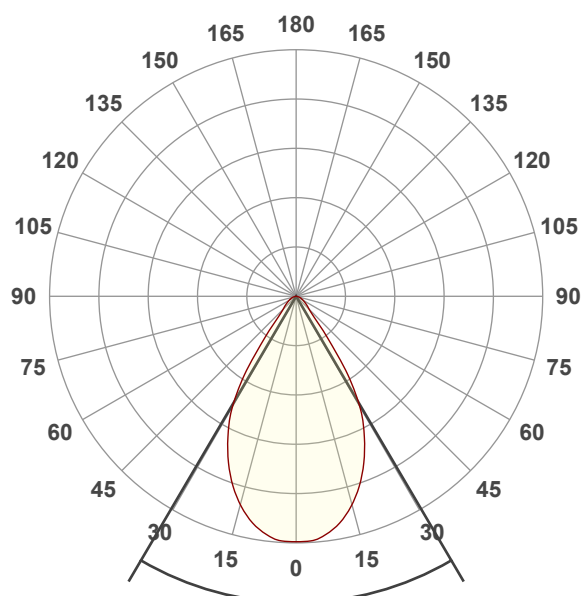
2800K

Operator:

Paolo Carvone

Date and time:

18/10/2022 13:36:14

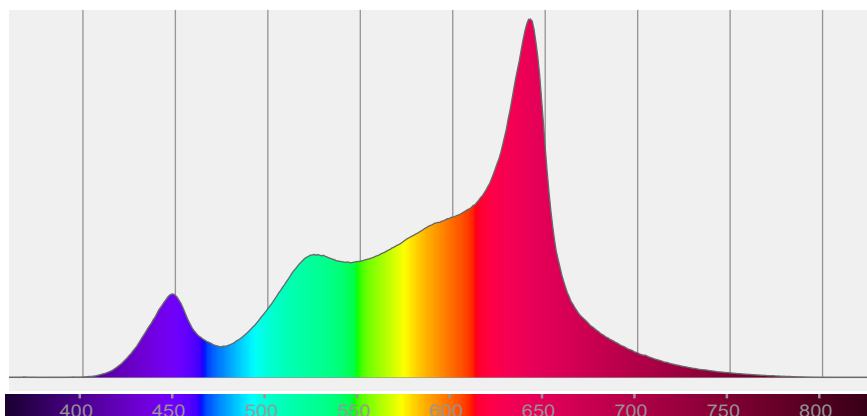


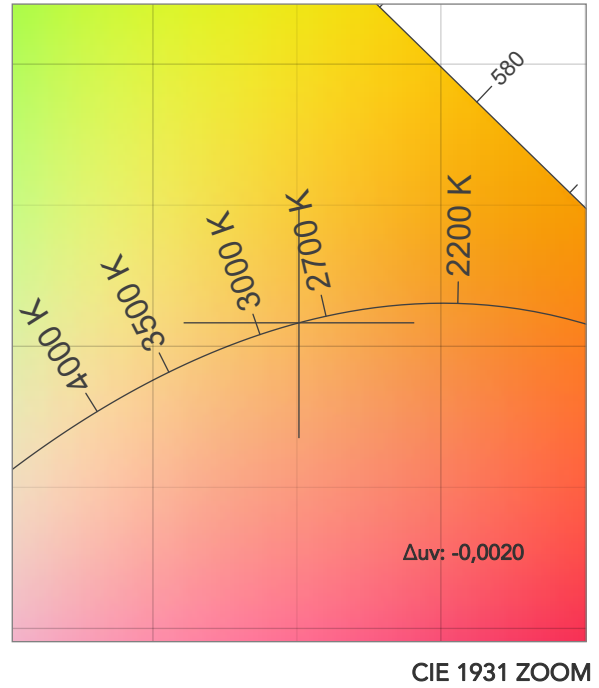
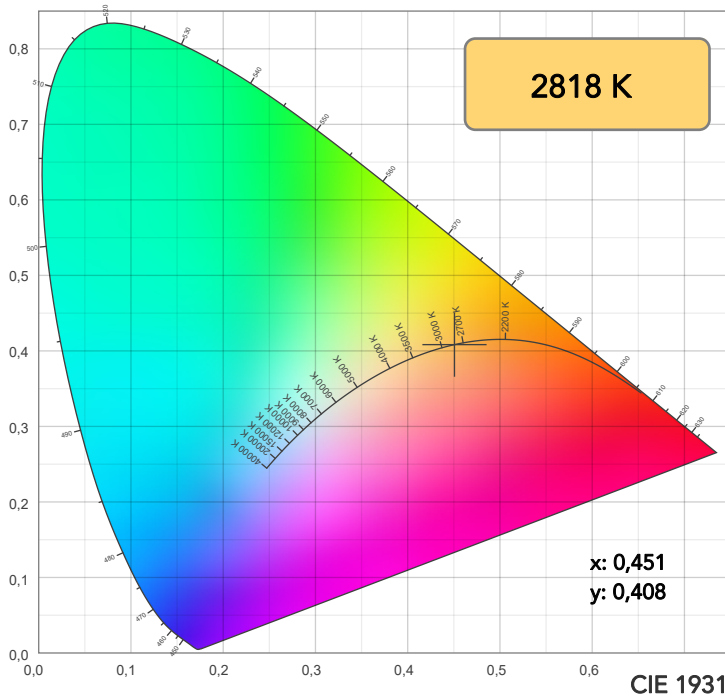
Beam angle 50%: 60,9°

Field angle 10%: 84°

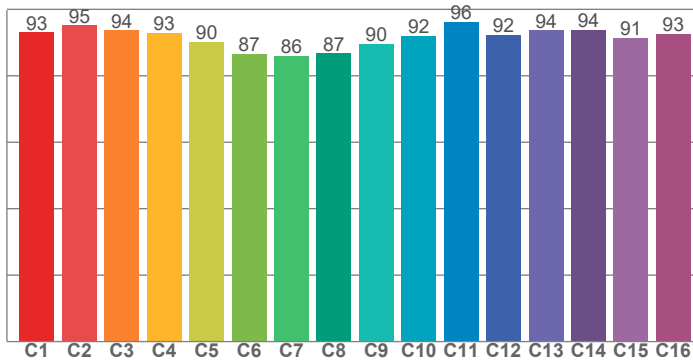
Cut off angle 2.5%: 130,4°

Spectra

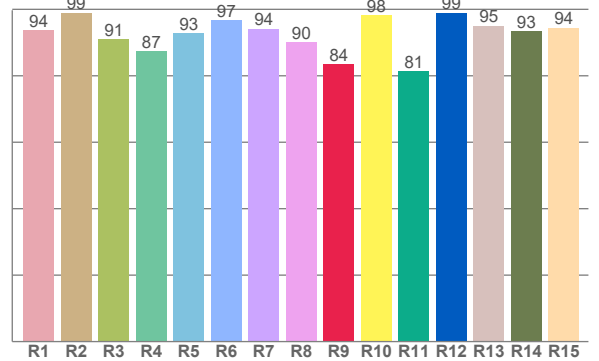




TM30: 92,0



CRI: 93,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,7	98,9	91,0	87,3	92,8	96,7	94,2	90,1	83,6	98,3	81,3	99,0	95,1	93,5	94,4

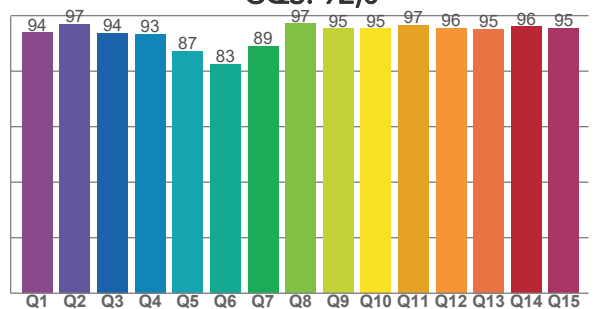
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,1	95,2	93,7	92,8	90,2	86,7	85,9	86,8	89,5	92,0	96,2	92,3	93,6	93,8	91,4	92,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,9	97,0	93,7	93,4	87,1	82,6	88,9	97,2	95,4	95,3	96,7	95,6	95,2	96,1	95,4

CQS: 92,0



COLOR PARAMETERS

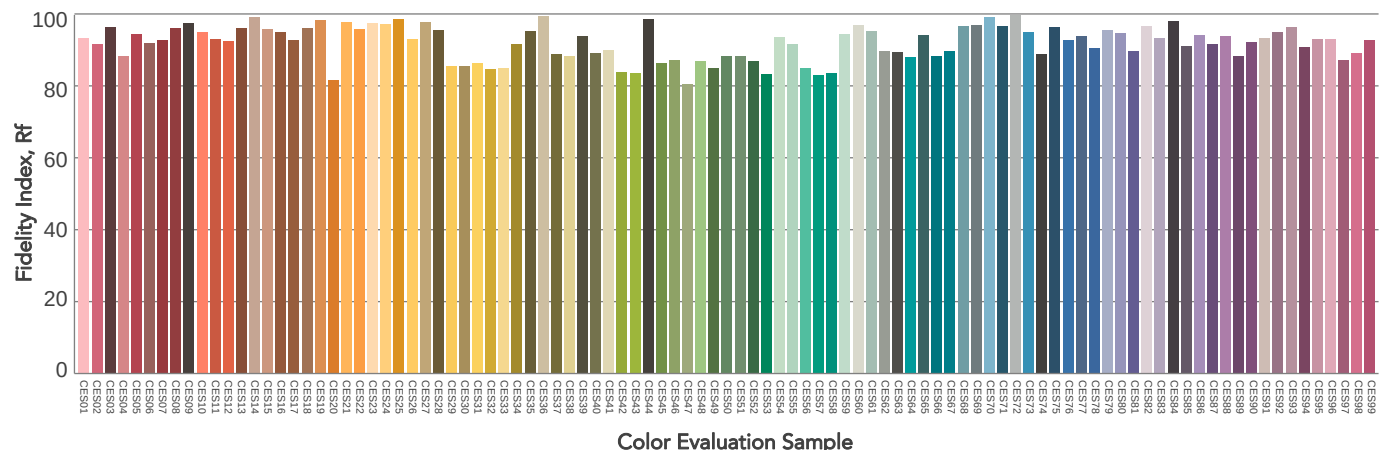
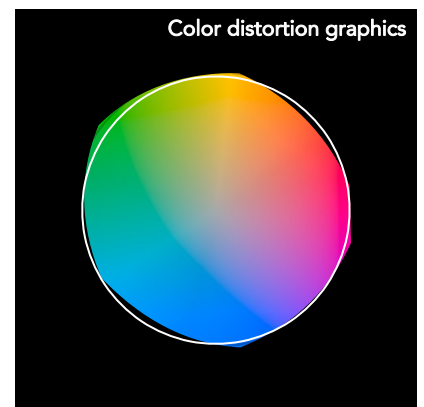
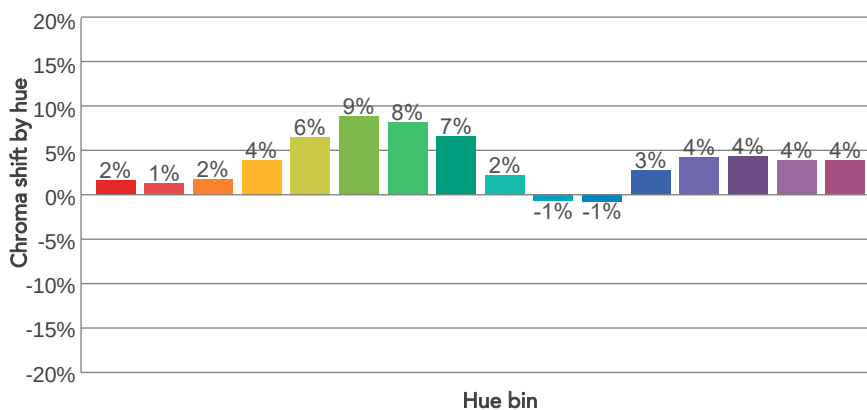
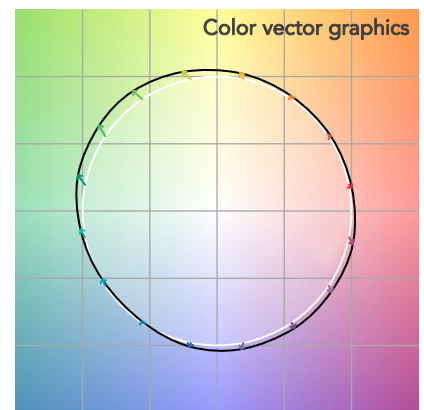
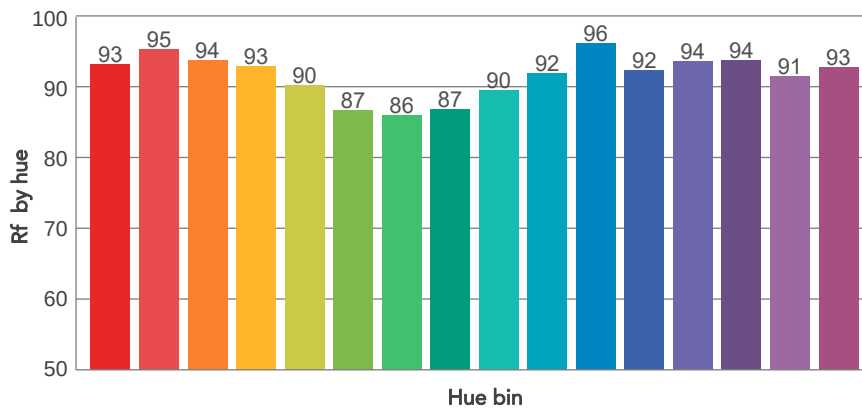
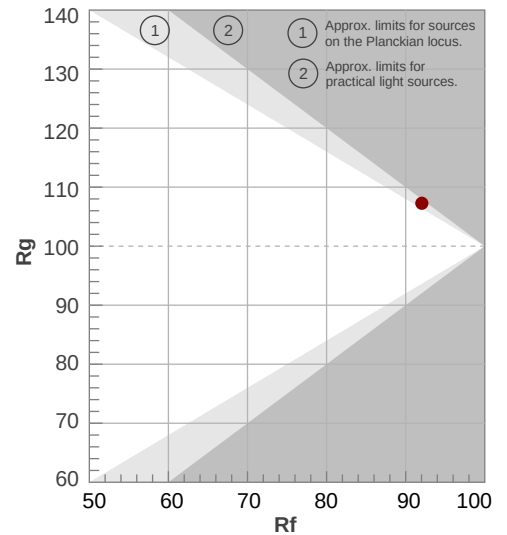
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2818 K	93,1	83,6	92,0	107,3	92,0	86	0,451	0,408	-0,0020

TM30 DETAILS

Rf 92,0
Fidelity index Rf

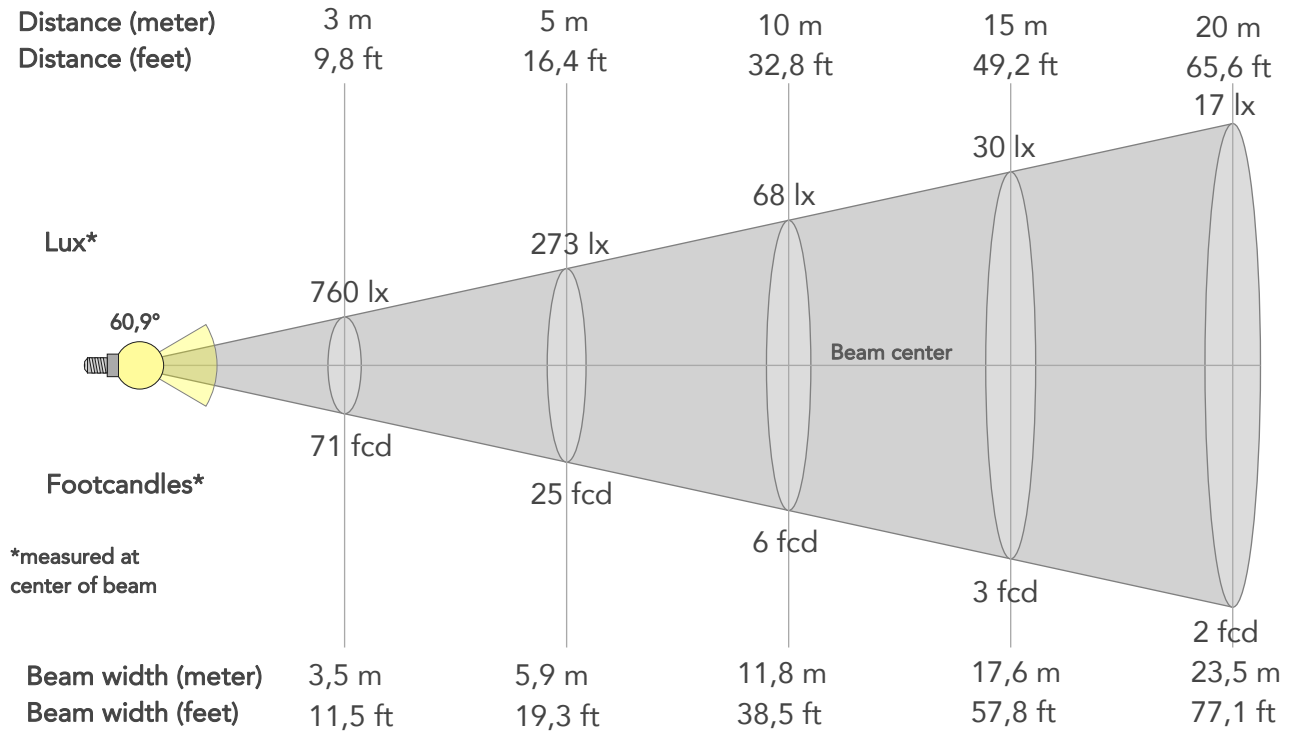
Rg 107,3
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	95	1%	-1%
3	94	2%	2%
4	93	4%	3%
5	90	6%	5%
6	87	9%	2%
7	86	8%	-4%
8	87	7%	-6%
9	90	2%	-6%
10	92	-1%	-5%
11	96	-1%	-1%
12	92	3%	-1%
13	94	4%	-2%
14	94	4%	-1%
15	91	4%	-3%
16	93	4%	-4%



BEAM DETAILS

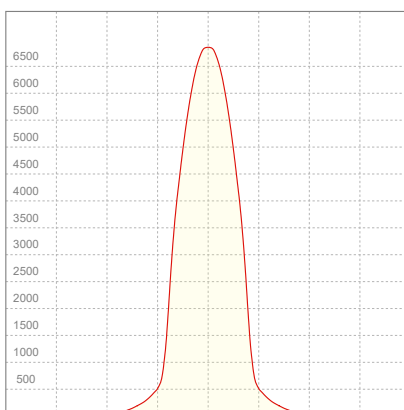
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60,9°	84°	130,4°	95,9%	89,1%



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	6837lx	1709lx	760lx	427lx	273lx	122lx	68lx	30lx	17lx	11lx	8lx	4lx	3lx
Footcand.	635fcd	159fcd	71fcd	40fcd	25fcd	11fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,5m	4,7m	5,9m	8,8m	11,8m	17,6m	23,5m	29,4m	35,3m	47m	58,8m
Beam wid.	3,9ft	7,8ft	11,5ft	15,4ft	19,3ft	28,9ft	38,5ft	57,8ft	77,1ft	96,4ft	115,6ft	154,2ft	192,7ft

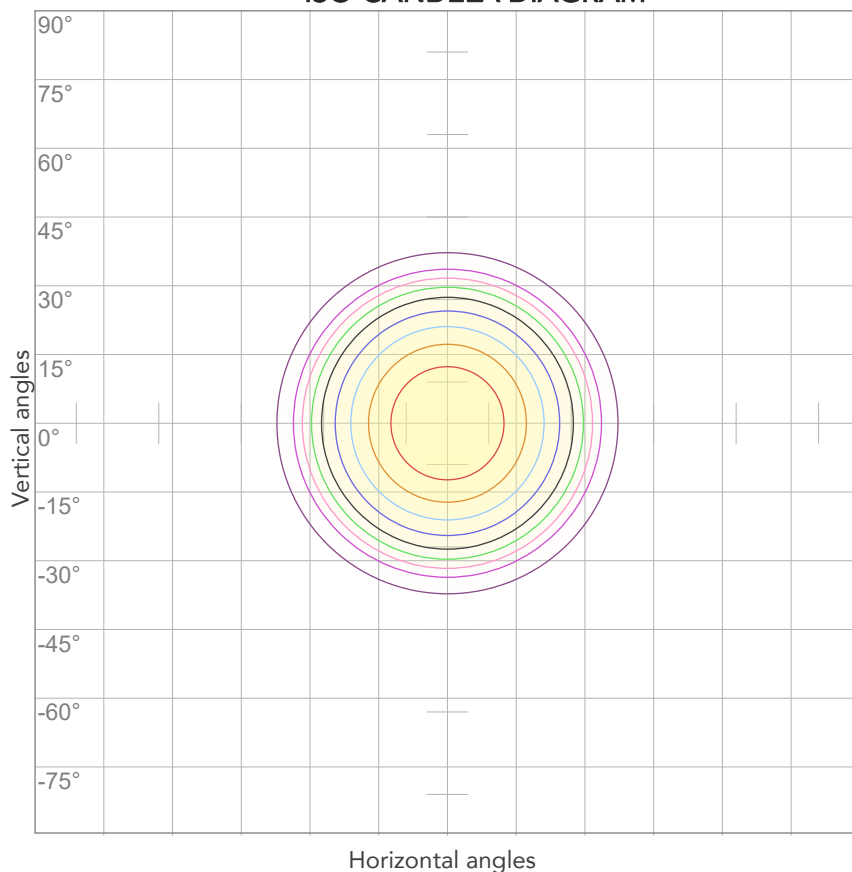
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
229V	0,711A	154,8W	43lm/W

ISO CANDELA DIAGRAM



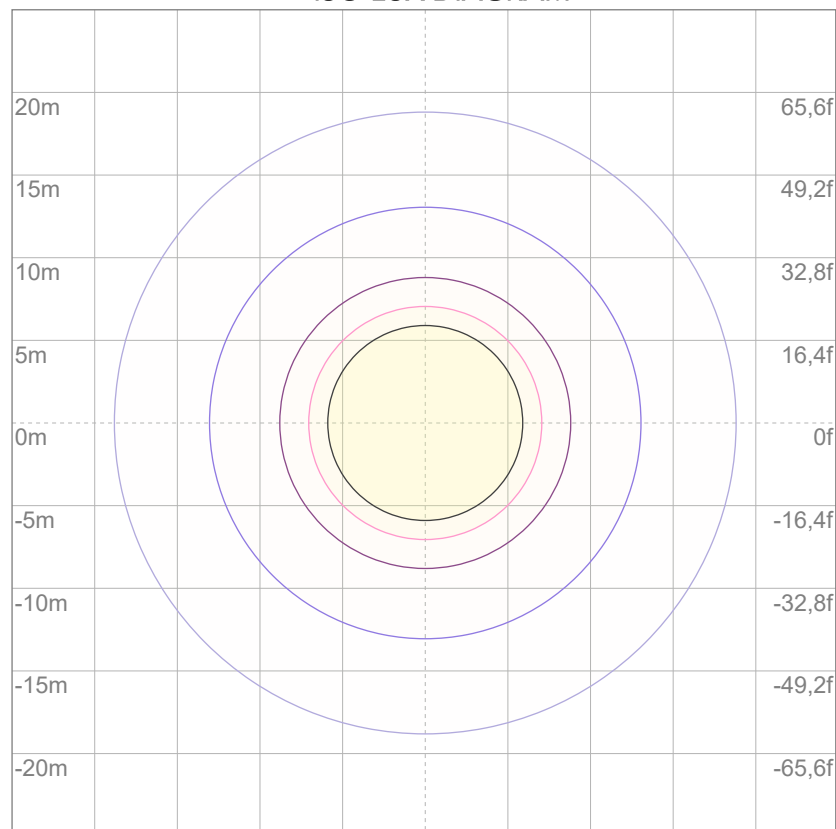
10%	684 cd
20%	1367 cd
30%	2051 cd
40%	2735 cd
50%	3418 cd
60%	4102 cd
70%	4786 cd
80%	5469 cd

Conditions:

Number of c-planes: 2

Candela at center: 6837 cd

ISO LUX DIAGRAM



3%	2,05 lx
5%	3,42 lx
10%	6,84 lx
30%	20,5 lx
50%	34,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 68,4 lx

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



Total lumen output:

6463 lm

Peak candela output:

30859 cd

Light quality:

CRI: 94,1

Color temperature:

3210 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

20°

Target:

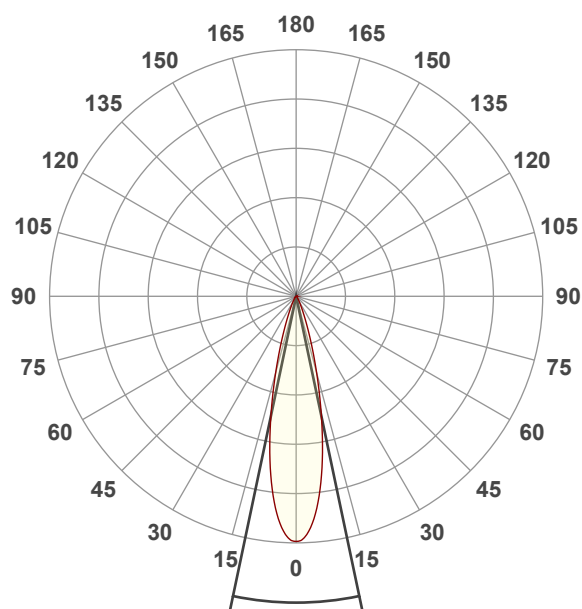
3200K

Operator:

Paolo Carvone

Date and time:

18/10/2022 13:21:04

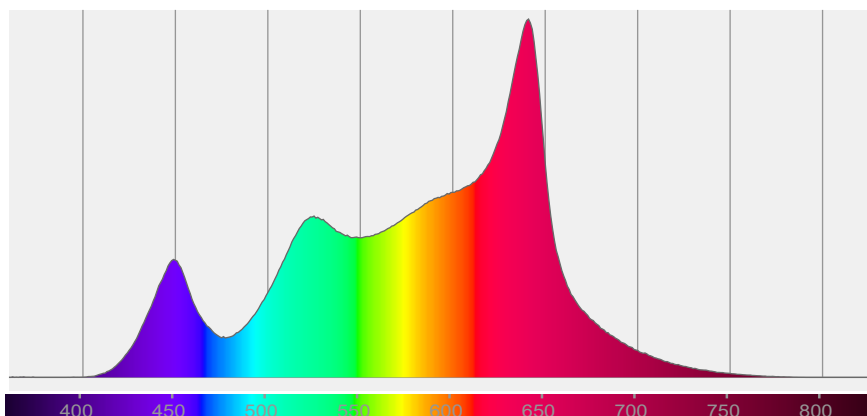


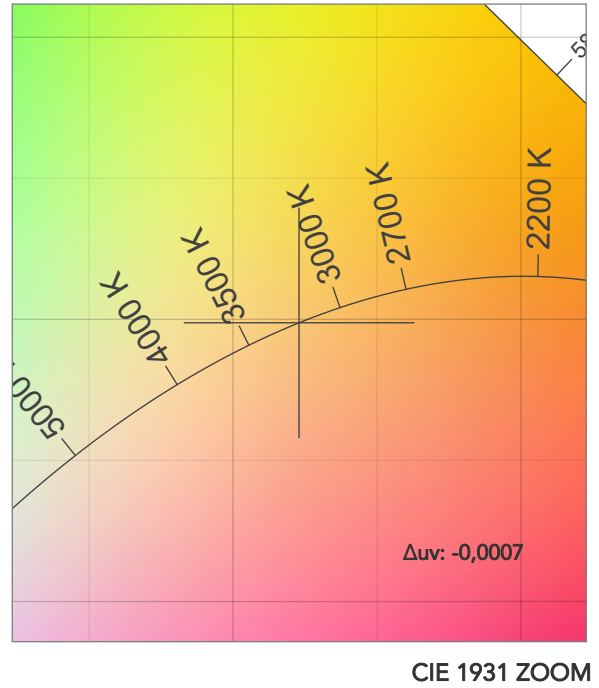
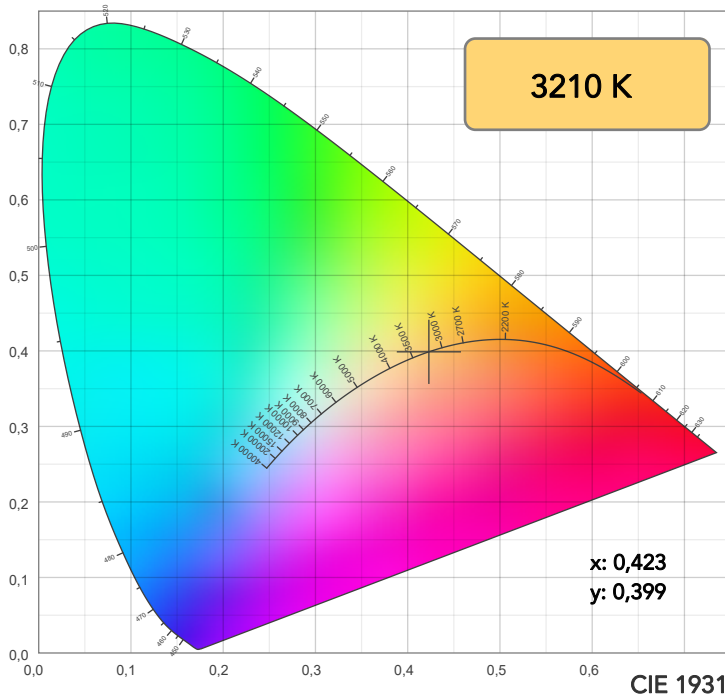
Beam angle 50%: 23,8°

Field angle 10%: 43,2°

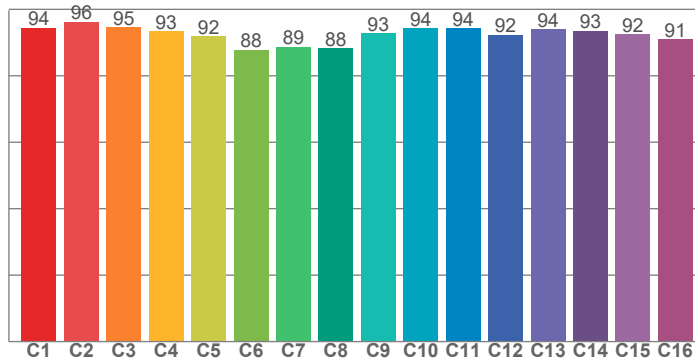
Cut off angle 2.5%: 60,6°

Spectra

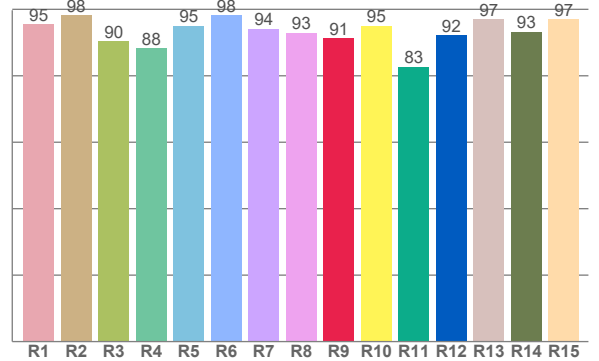




TM30: 92,9



CRI: 94,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,5	98,1	90,4	88,3	95,1	98,2	94,2	92,9	91,4	95,1	82,7	92,3	97,0	93,3	97,1

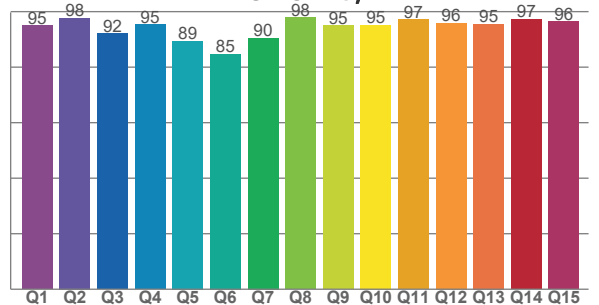
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	96,2	94,6	93,4	91,8	87,7	88,7	88,3	92,8	94,3	94,2	92,4	94,0	93,5	92,5	91,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,0	97,7	92,1	95,4	89,4	84,8	90,5	97,9	95,0	95,2	97,2	95,9	95,5	97,2	96,4

CQS: 93,1



COLOR PARAMETERS

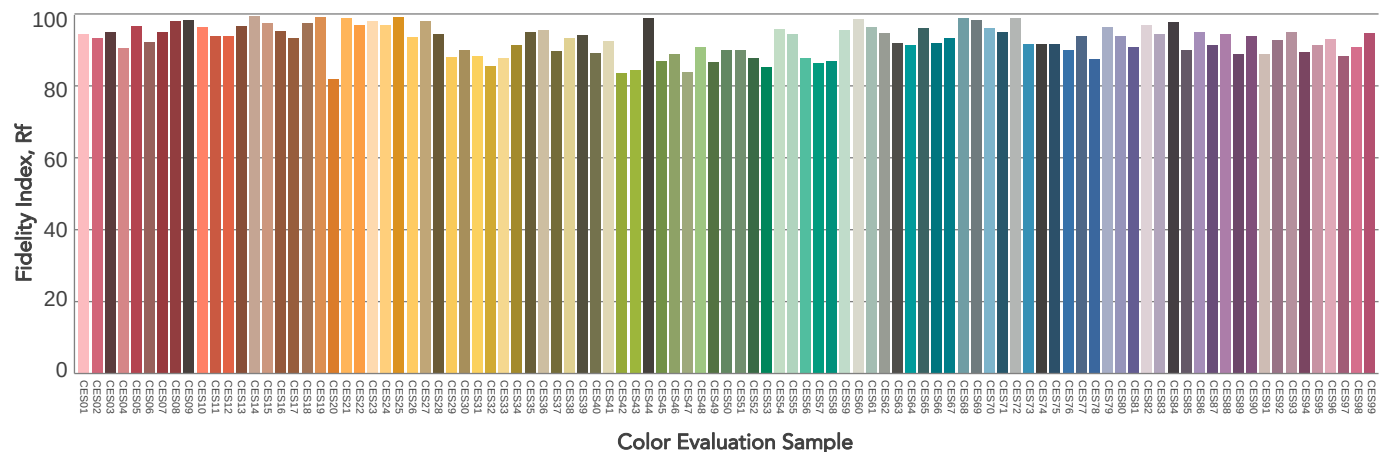
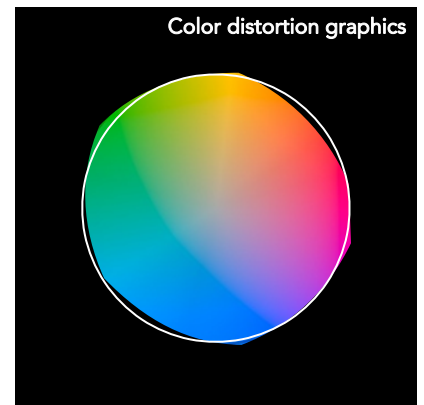
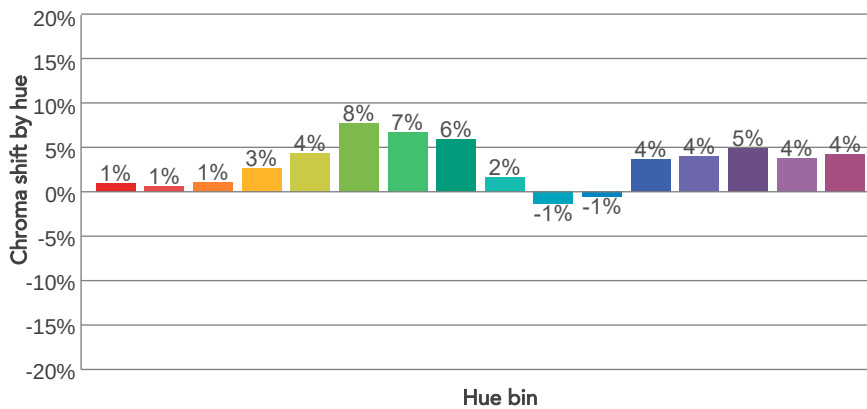
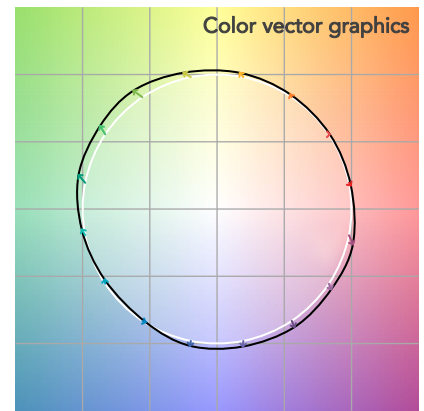
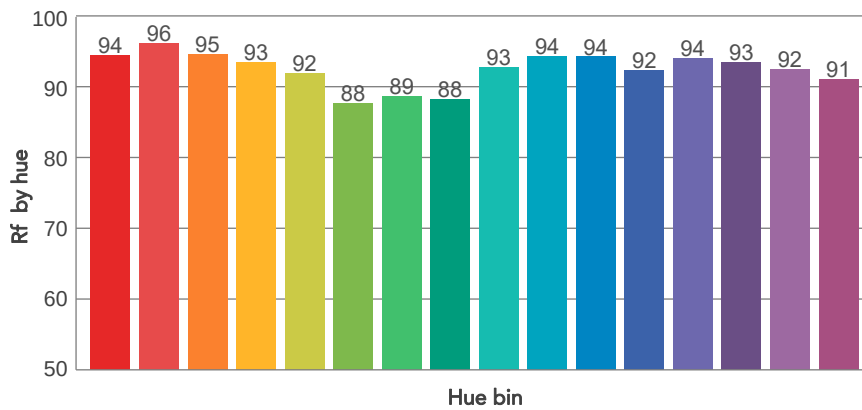
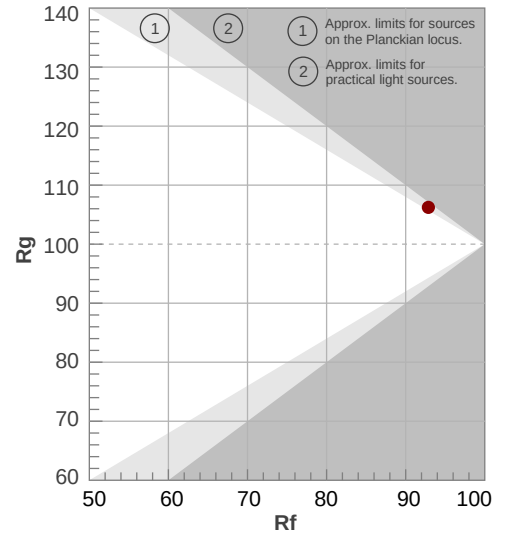
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3210 K	94,1	91,4	92,9	106,2	93,1	89	0,423	0,399	-0,0007

TM30 DETAILS

Rf 92,9
Fidelity index Rf

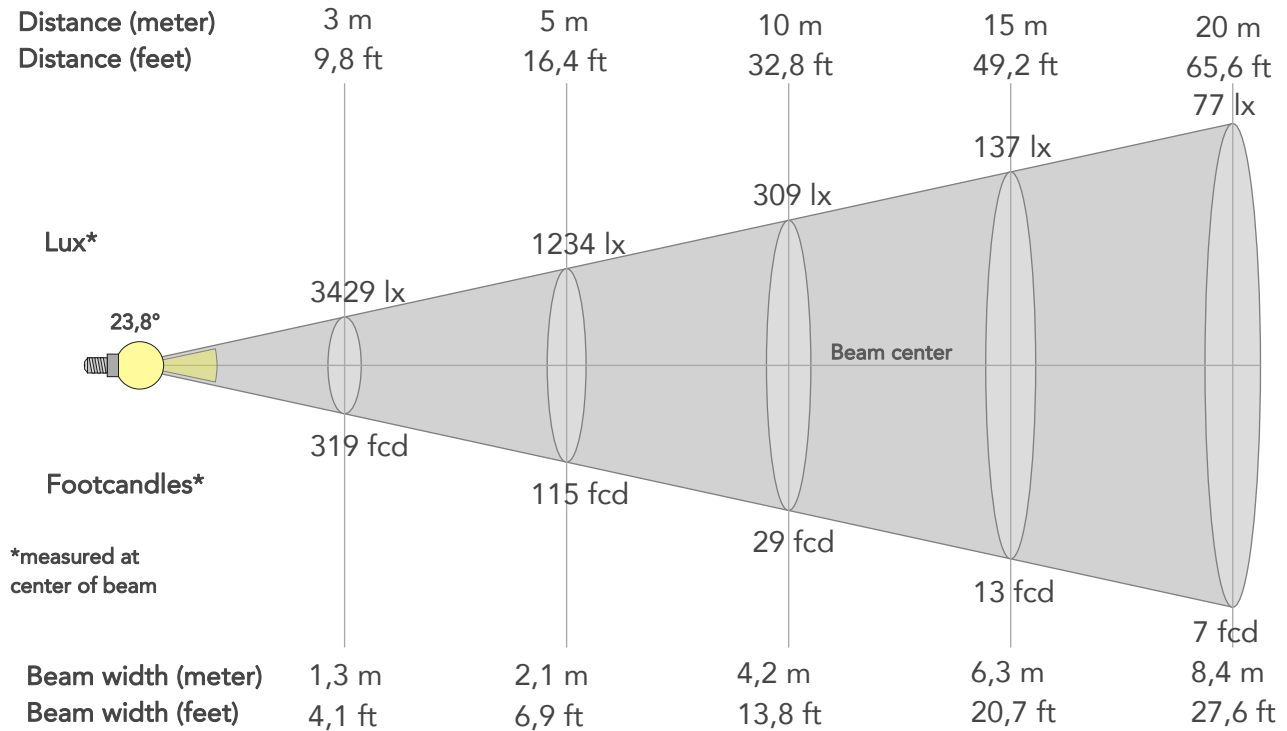
Rg 106,2
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-2%
2	96	1%	0%
3	95	1%	2%
4	93	3%	3%
5	92	4%	5%
6	88	8%	3%
7	89	7%	-3%
8	88	6%	-5%
9	93	2%	-5%
10	94	-1%	-3%
11	94	-1%	3%
12	92	4%	0%
13	94	4%	-1%
14	93	5%	-1%
15	92	4%	-2%
16	91	4%	-6%



BEAM DETAILS

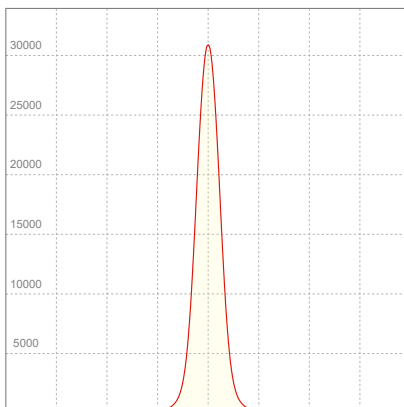
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,8°	43,2°	60,6°	99,9%	98,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	30859lx	7715lx	3429lx	1929lx	1234lx	549lx	309lx	137lx	77lx	49lx	34lx	19lx	12lx
Footcand.	2867fcd	717fcd	319fcd	179fcd	115fcd	51fcd	29fcd	13fcd	7fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,4m	0,8m	1,3m	1,7m	2,1m	3,2m	4,2m	6,3m	8,4m	10,5m	12,6m	16,9m	21,1m
Beam wid.	1,4ft	2,8ft	4,1ft	5,5ft	6,9ft	10,4ft	13,8ft	20,7ft	27,6ft	34,5ft	41,5ft	55,3ft	69,1ft

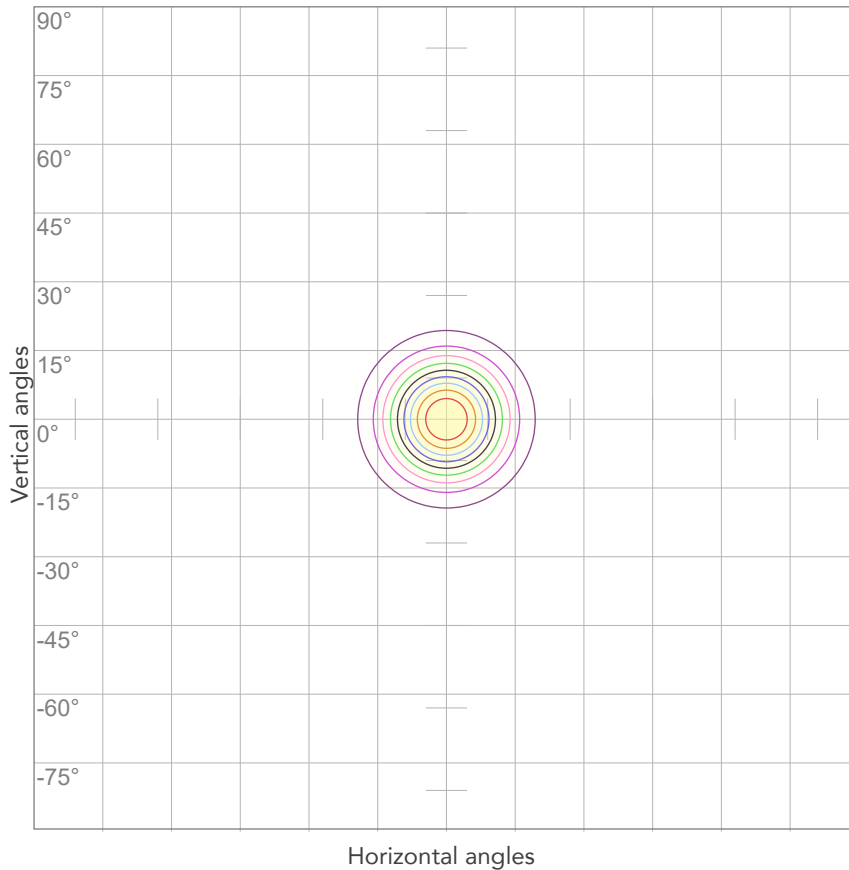
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,742A	158,7W	41lm/W

ISO CANDELA DIAGRAM



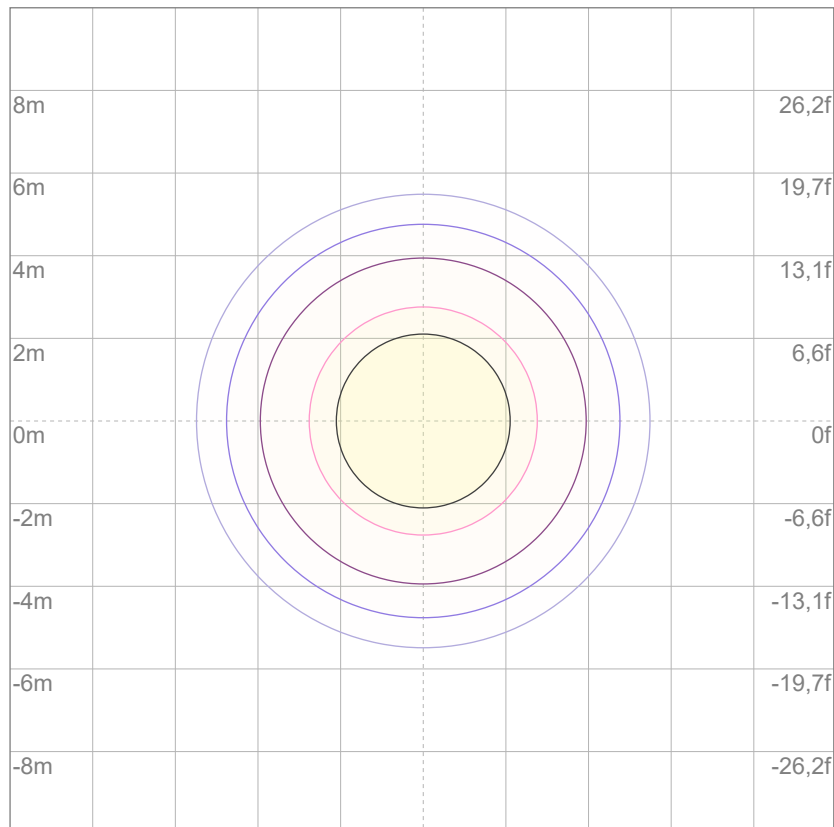
10%	3086 cd
20%	6172 cd
30%	9258 cd
40%	12343 cd
50%	15429 cd
60%	18515 cd
70%	21601 cd
80%	24687 cd

Conditions:

Number of c-planes: 2

Candela at center: 30859 cd

ISO LUX DIAGRAM



3%	9,26 lx
5%	15,4 lx
10%	30,9 lx
30%	92,6 lx
50%	154 lx

Conditions:

Number of c-planes: 2

Lux at center: 309 lx

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



Total lumen output:

6988 lm

Peak candela output:

12857 cd

Light quality:

CRI: 94,2

Color temperature:

3210 K

PRODUCT NAME:
ECLPENDANT FC

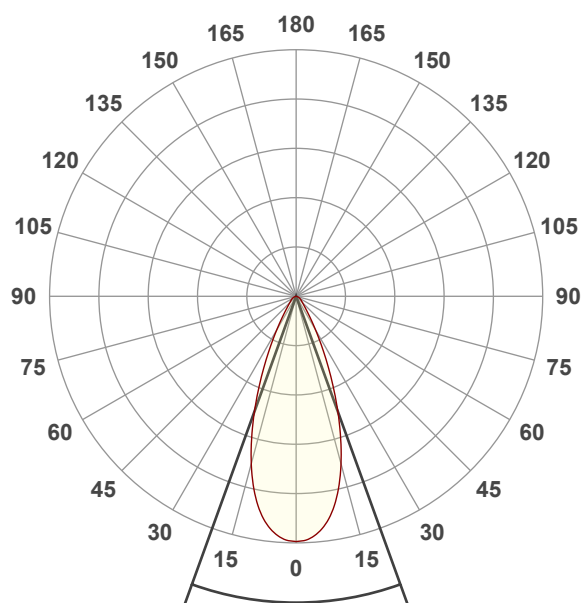
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
3200K

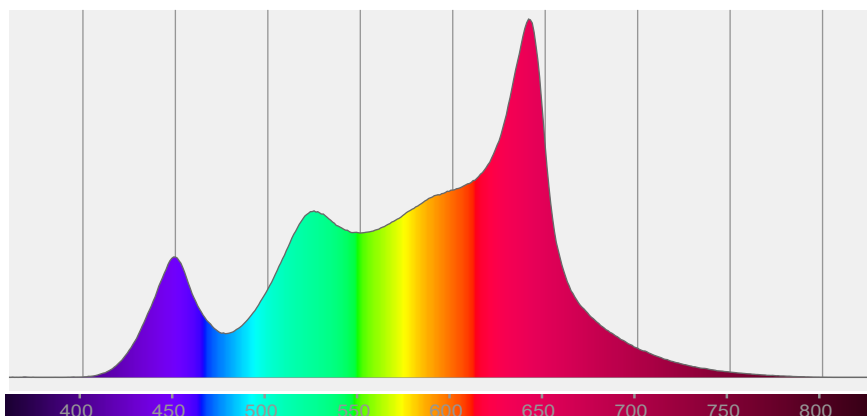
Operator:
Paolo Carvone

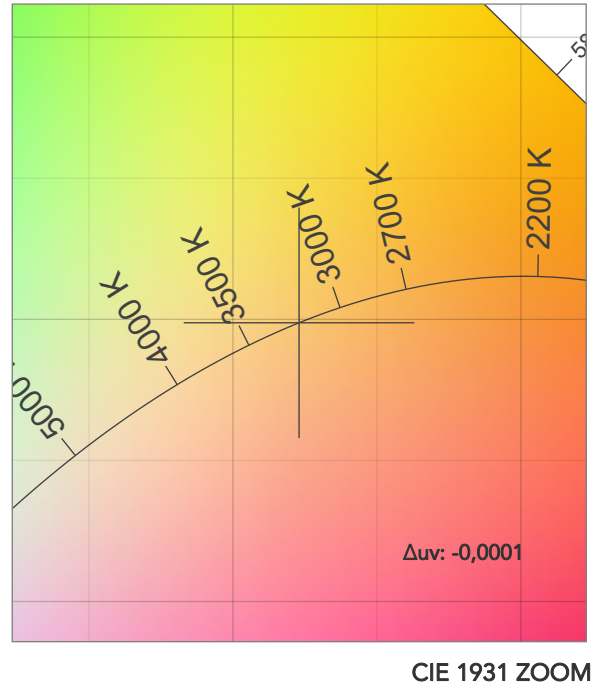
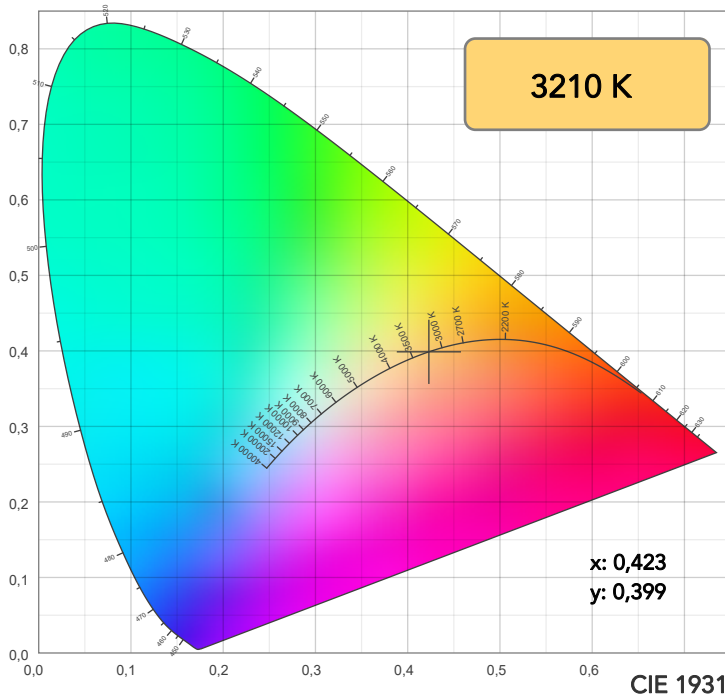
Date and time:
18/10/2022 13:40:35



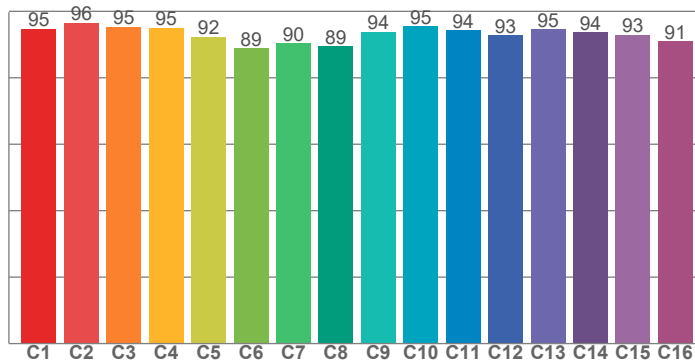
Beam angle 50%: 39,8°
Field angle 10%: 67,4°
Cut off angle 2.5%: 105,8°

Spectra

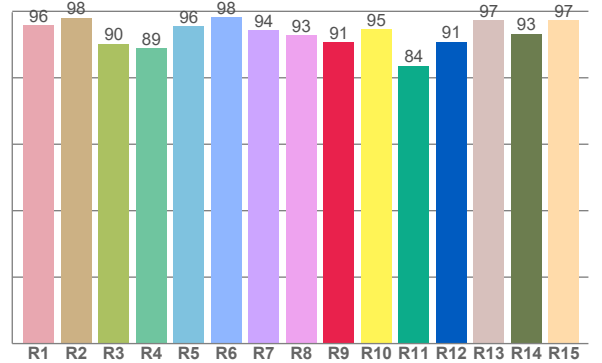




TM30: 93,5



CRI: 94,2 (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
95,7	98,0	90,2	88,9	95,6	98,3	94,3	92,8	90,6	94,6	83,7	90,8	97,3	93,2	97,3

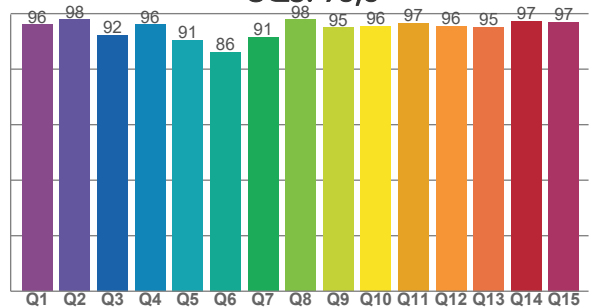
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,8	96,5	95,3	95,0	92,3	88,8	90,4	89,4	93,8	95,4	94,2	92,8	94,5	93,6	92,9	91,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,1	97,8	92,3	96,0	90,5	86,2	91,5	97,9	95,0	95,6	96,7	95,5	95,1	97,4	97,0

CQS: 93,6



COLOR PARAMETERS

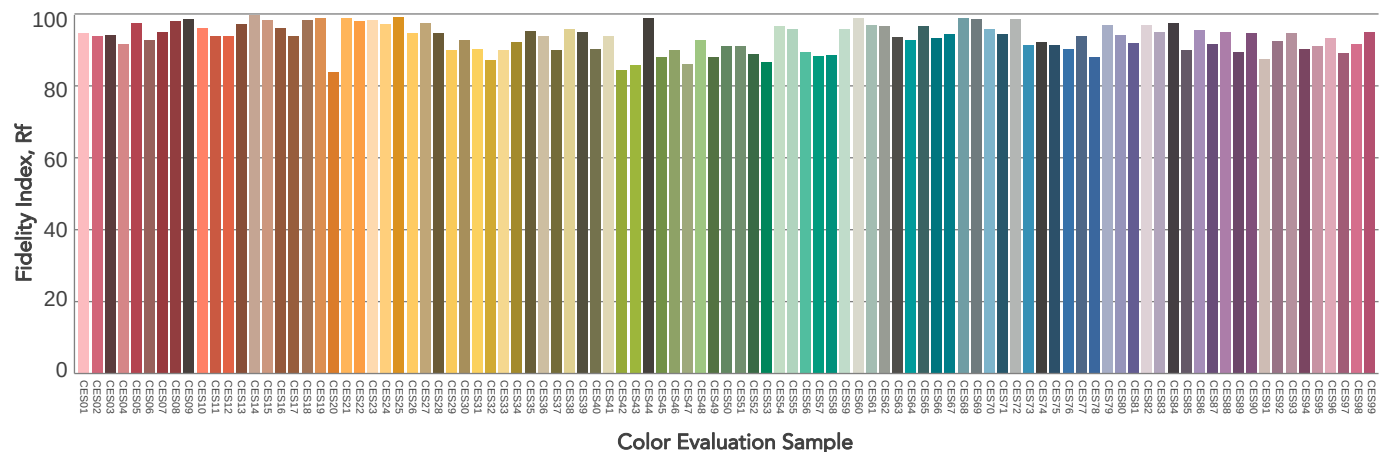
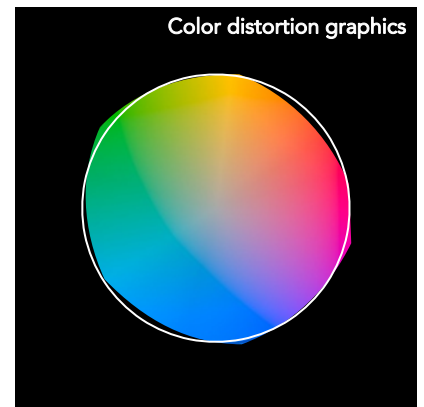
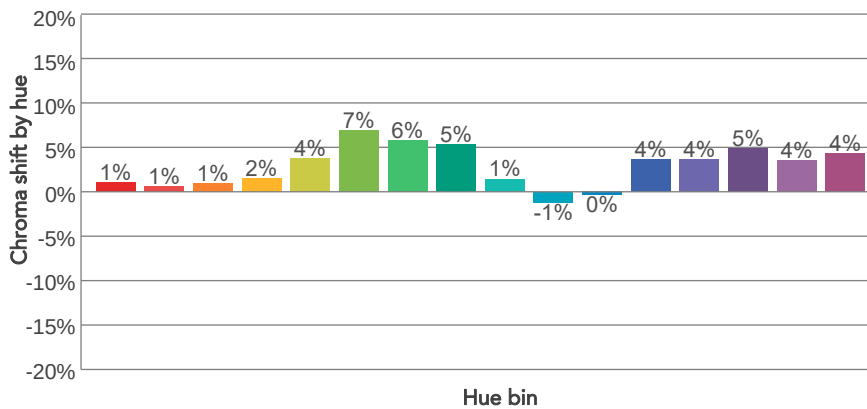
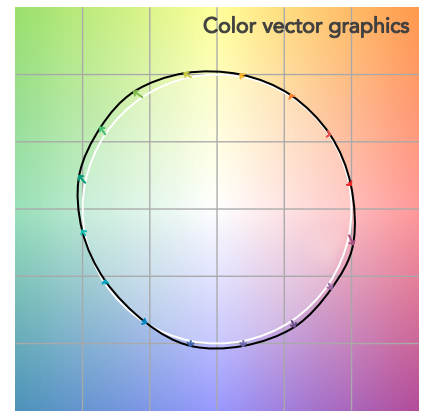
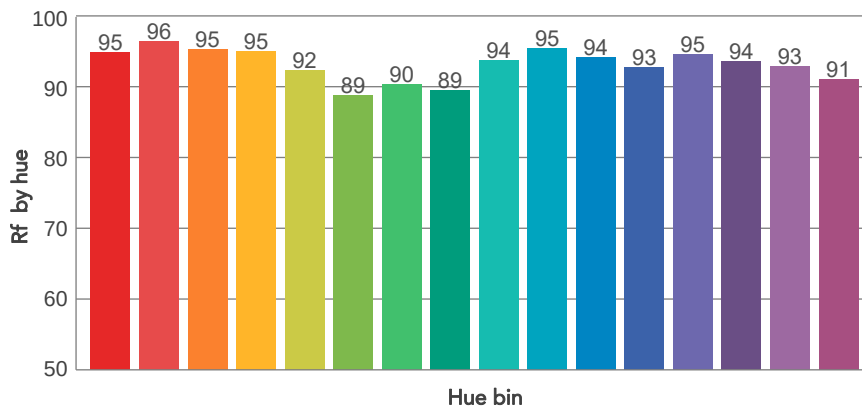
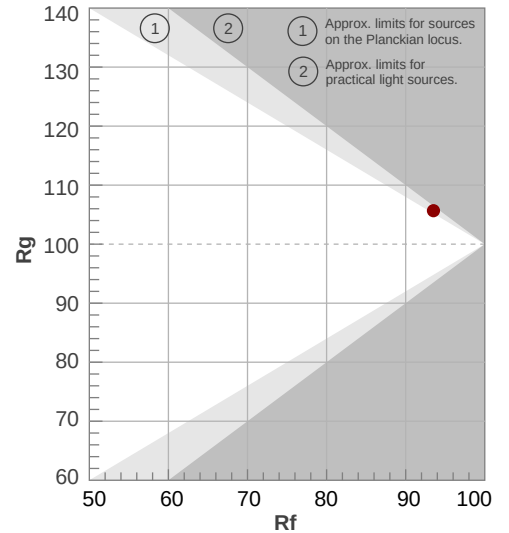
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3210 K	94,2	90,6	93,5	105,7	93,6	90	0,423	0,399	-0,0001

TM30 DETAILS

Rf 93,5
Fidelity index Rf

Rg 105,7
Gammut index

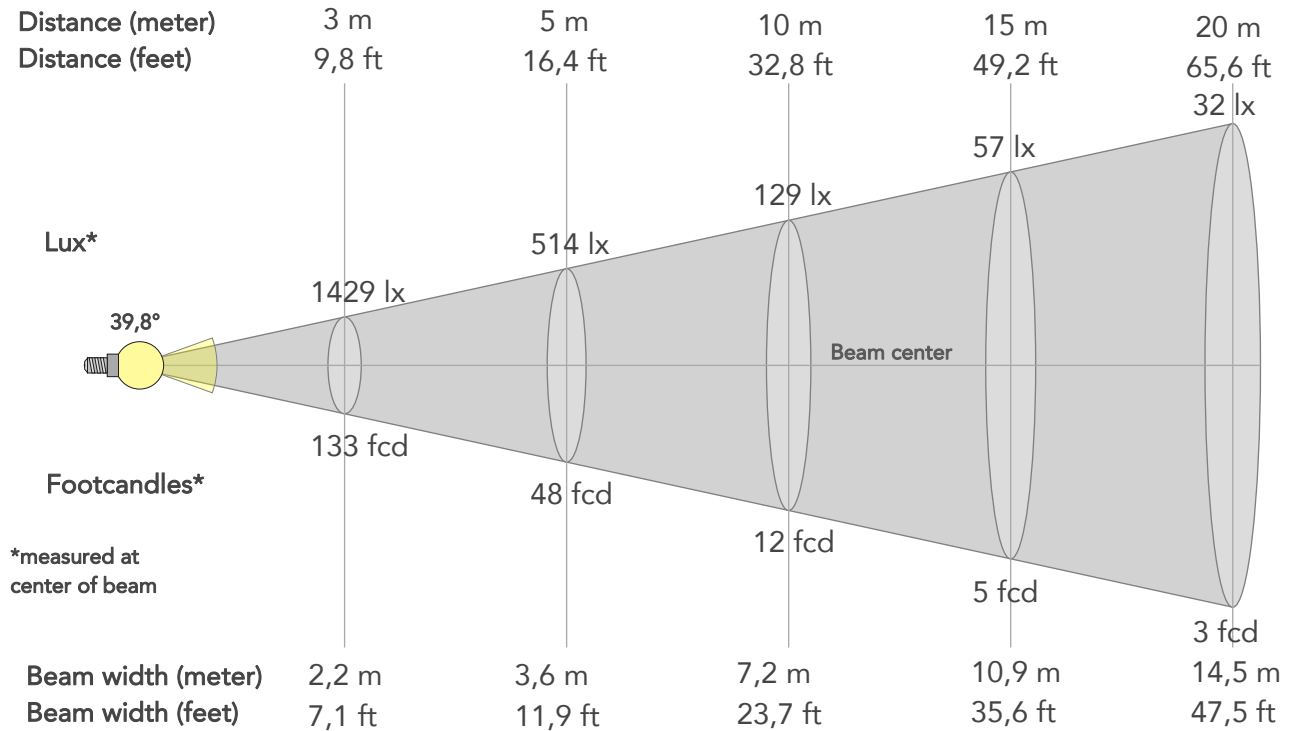
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	95	1%	2%
4	95	2%	2%
5	92	4%	4%
6	89	7%	3%
7	90	6%	-2%
8	89	5%	-4%
9	94	1%	-4%
10	95	-1%	-2%
11	94	0%	3%
12	93	4%	0%
13	95	4%	-1%
14	94	5%	-1%
15	93	4%	-2%
16	91	4%	-6%



BEAM DETAILS



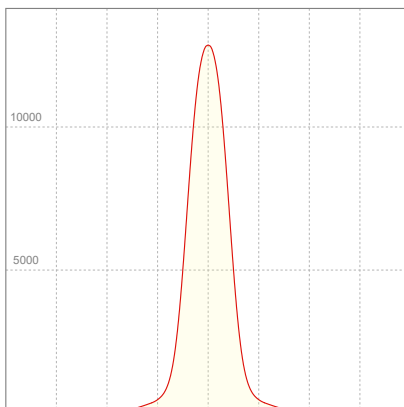
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,8°	67,4°	105,8°	96,7%	90,5%



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	12857lx	3214lx	1429lx	804lx	514lx	229lx	129lx	57lx	32lx	21lx	14lx	8lx	5lx
Footcand.	1194fcd	299fcd	133fcd	75fcd	48fcd	21fcd	12fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,7m	1,4m	2,2m	2,9m	3,6m	5,4m	7,2m	10,9m	14,5m	18,1m	21,7m	28,9m	36,2m
Beam wid.	2,4ft	4,8ft	7,1ft	9,5ft	11,9ft	17,8ft	23,7ft	35,6ft	47,5ft	59,3ft	71,2ft	94,9ft	118,7ft

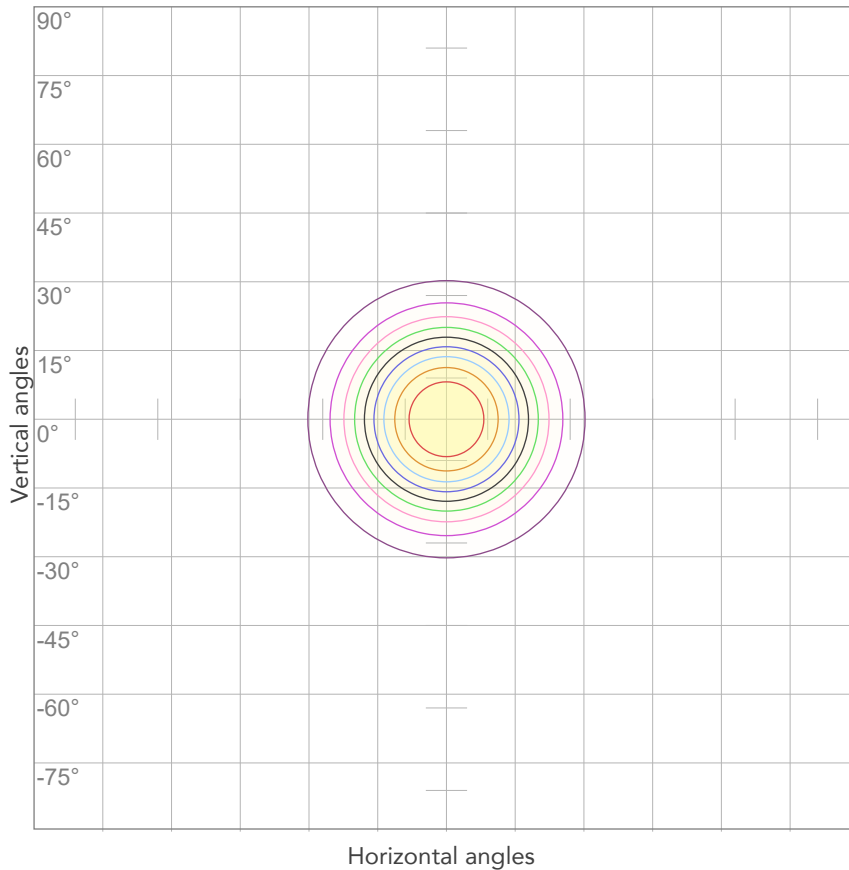
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,733A	158,4W	44lm/W

ISO CANDELA DIAGRAM



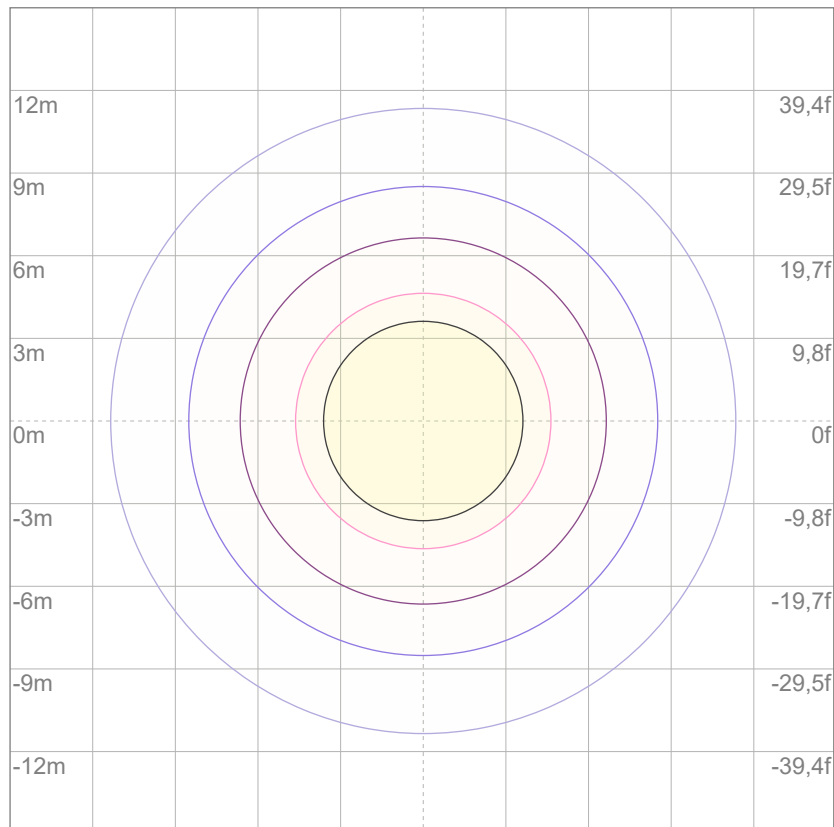
10%	1286 cd
20%	2571 cd
30%	3857 cd
40%	5143 cd
50%	6429 cd
60%	7714 cd
70%	9000 cd
80%	10286 cd

Conditions:

Number of c-planes: 2

Candela at center: 12857 cd

ISO LUX DIAGRAM



3%	3,86 lx
5%	6,43 lx
10%	12,9 lx
30%	38,6 lx
50%	64,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 129 lx

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



Total lumen output:

6870 lm

Peak candela output:

7049 cd

Light quality:

CRI: 94,1

Color temperature:

3210 K

PRODUCT NAME:
ECLPENDANT FC

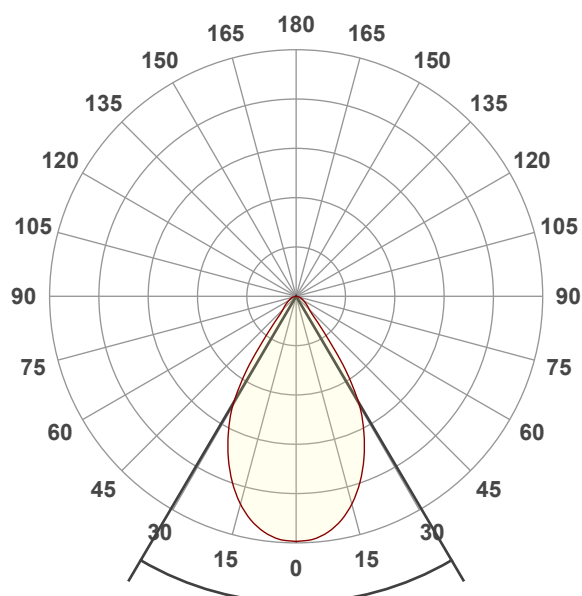
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
3200K

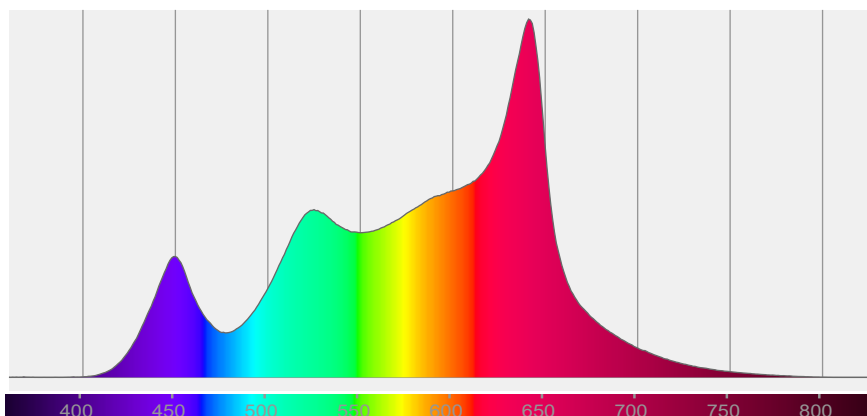
Operator:
Paolo Carvone

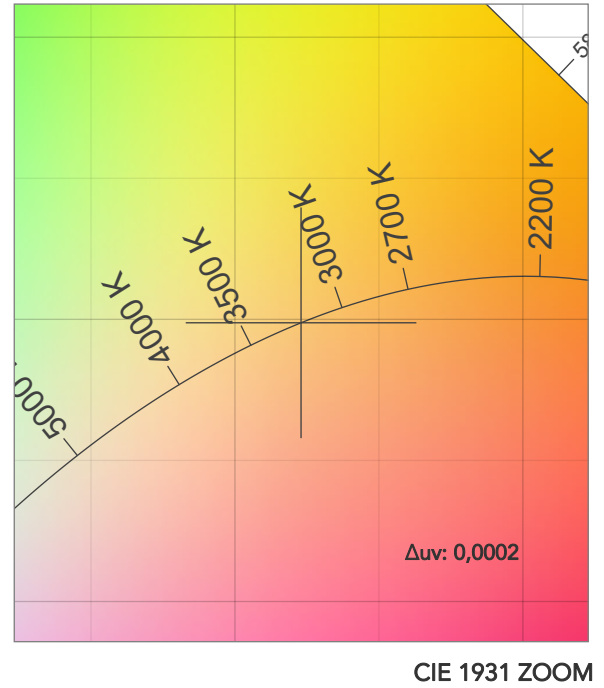
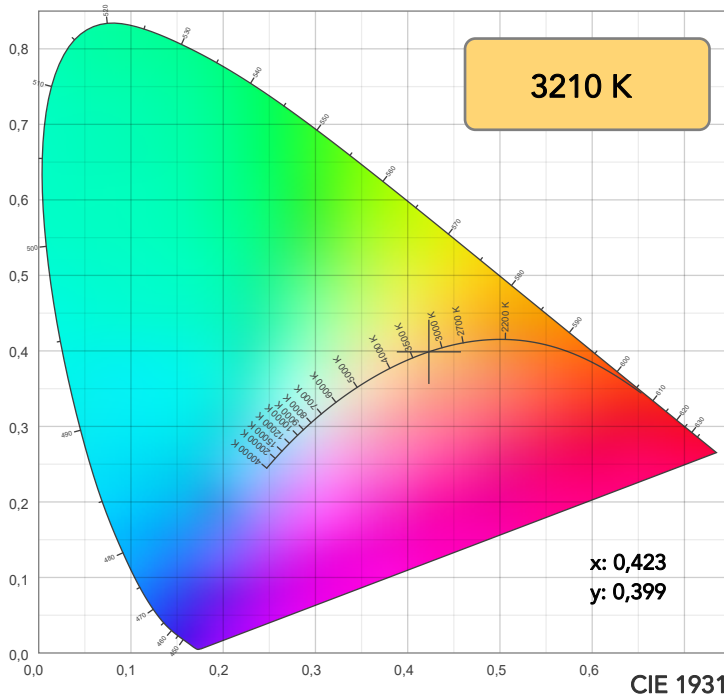
Date and time:
18/10/2022 13:38:14



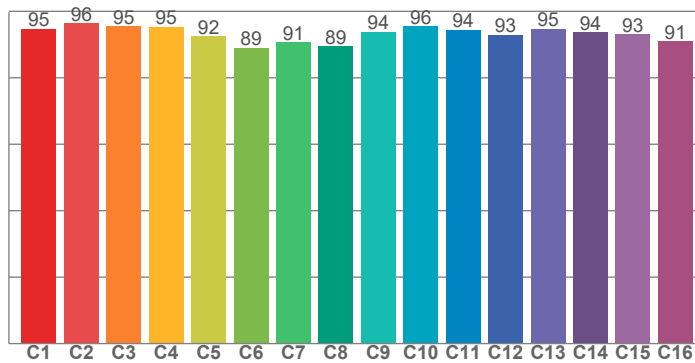
Beam angle 50%: 61°
Field angle 10%: 83,2°
Cut off angle 2.5%: 132,4°

Spectra

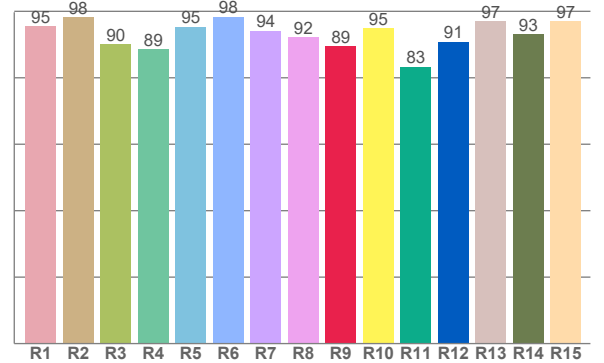




TM30: 93,6



CRI: 94,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,4	98,1	90,1	88,7	95,4	98,4	94,2	92,3	89,4	94,8	83,3	90,8	97,0	93,2	97,0

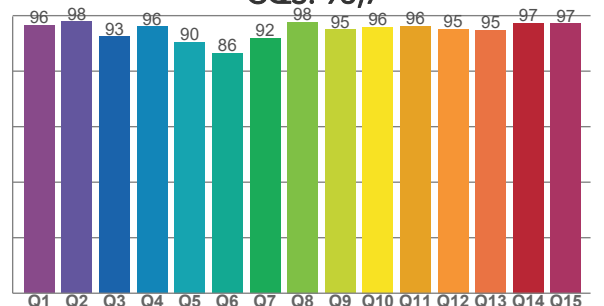
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	96,3	95,4	95,3	92,5	89,0	90,6	89,5	93,8	95,5	94,3	92,9	94,7	93,7	93,0	91,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,5	97,9	92,5	96,0	90,5	86,4	91,8	97,7	95,0	95,8	96,3	95,2	94,8	97,4	97,2

CQS: 93,7



COLOR PARAMETERS

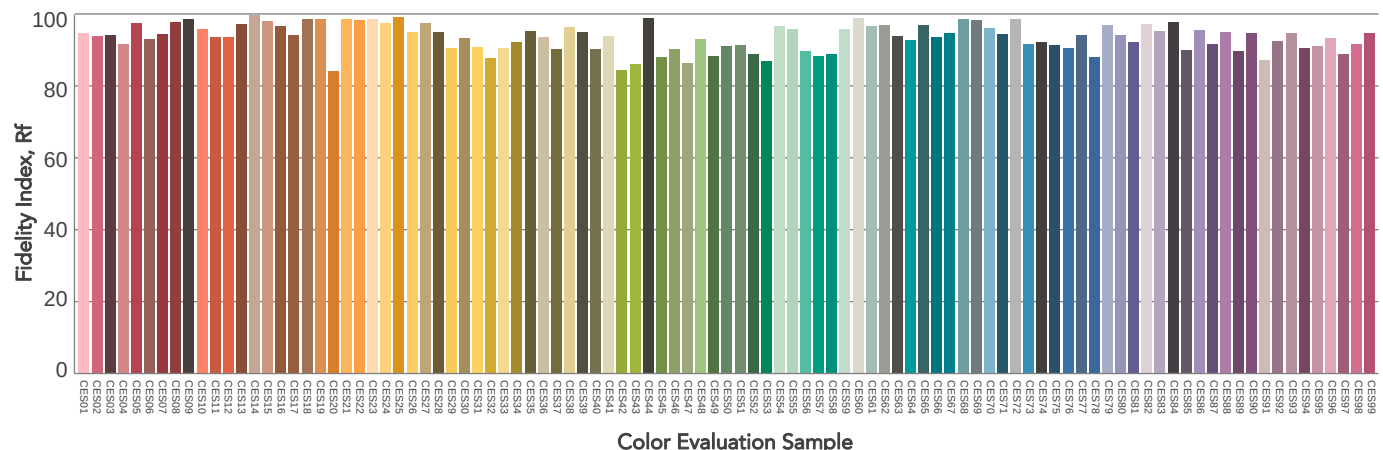
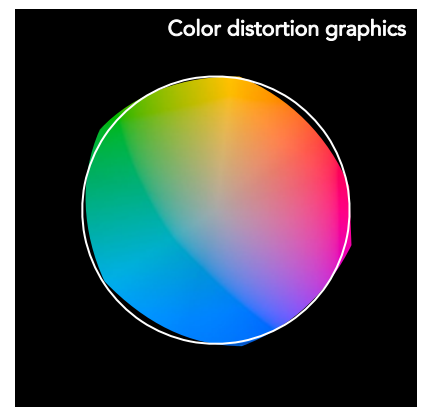
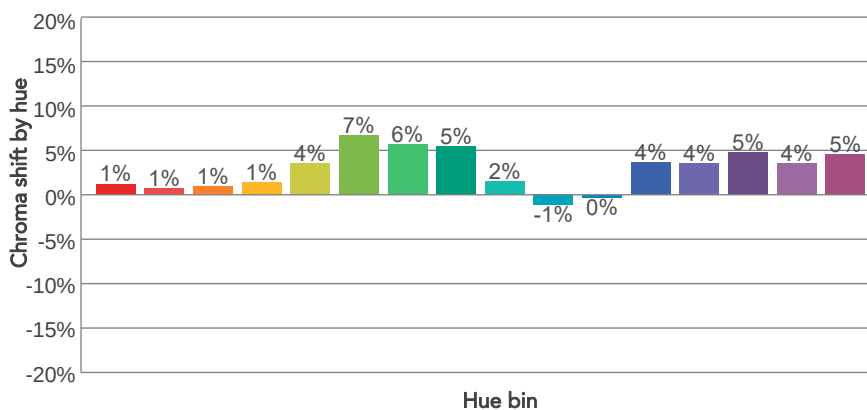
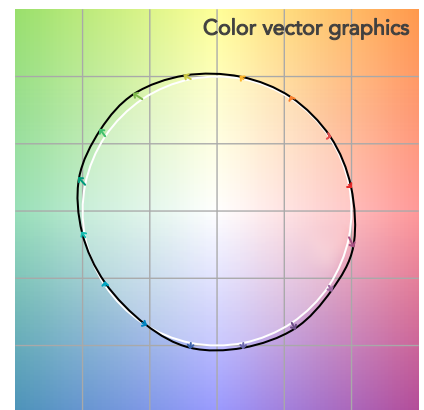
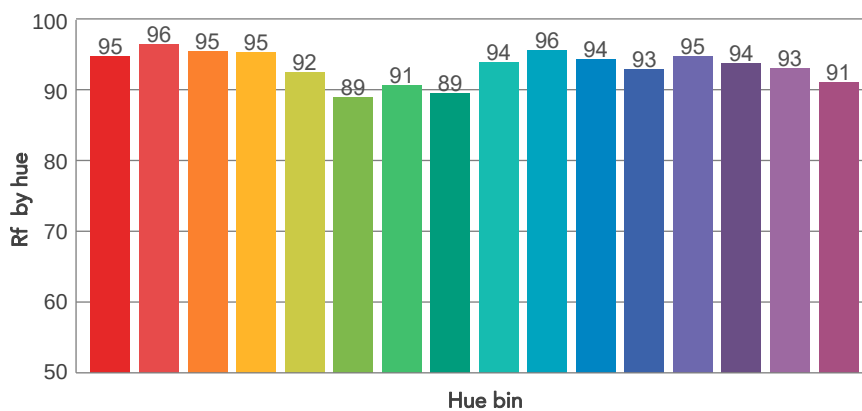
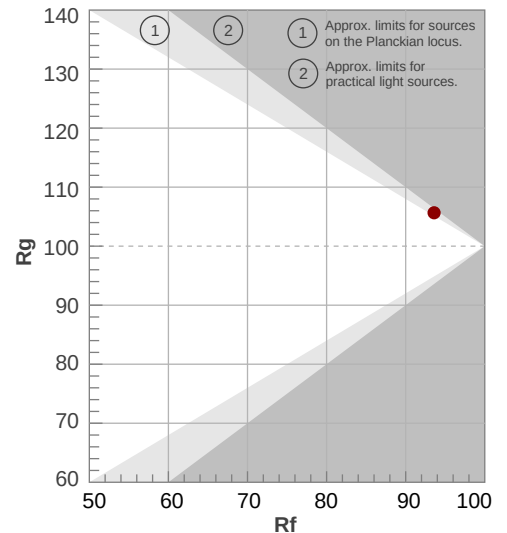
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3210 K	94,1	89,4	93,6	105,7	93,7	90	0,423	0,399	0,0002

TM30 DETAILS

Rf 93,6
Fidelity index Rf

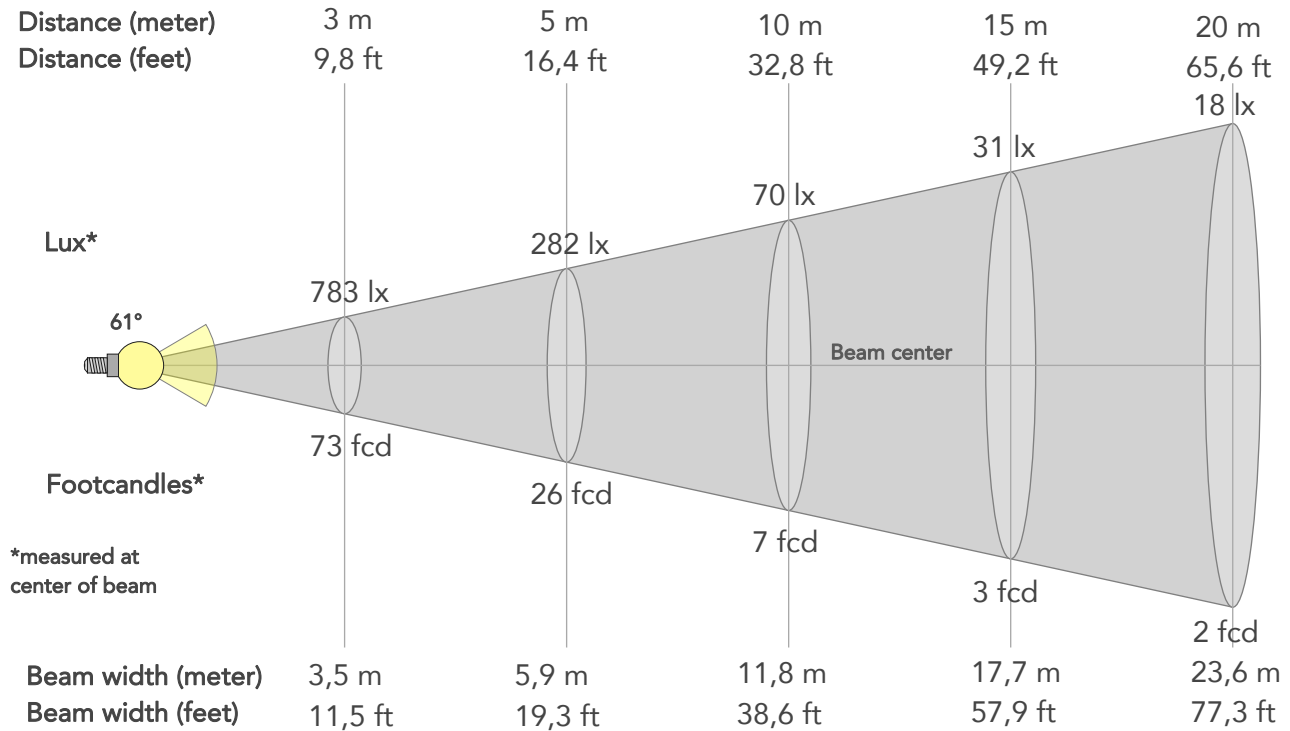
Rg 105,7
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	95	1%	1%
4	95	1%	2%
5	92	4%	4%
6	89	7%	3%
7	91	6%	-2%
8	89	5%	-4%
9	94	2%	-4%
10	96	-1%	-2%
11	94	0%	3%
12	93	4%	0%
13	95	4%	-1%
14	94	5%	0%
15	93	4%	-2%
16	91	5%	-6%



BEAM DETAILS

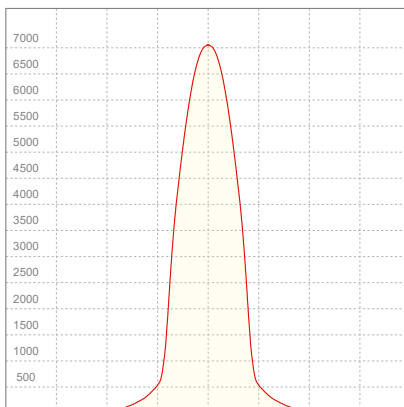
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
61°	83,2°	132,4°	95,5%	88,6%



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	7049lx	1762lx	783lx	441lx	282lx	125lx	70lx	31lx	18lx	11lx	8lx	4lx	3lx
Footcand.	655fcd	164fcd	73fcd	41fcd	26fcd	12fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,5m	4,7m	5,9m	8,8m	11,8m	17,7m	23,6m	29,4m	35,3m	47,1m	58,9m
Beam wid.	3,9ft	7,8ft	11,5ft	15,4ft	19,3ft	29ft	38,6ft	57,9ft	77,3ft	96,6ft	115,9ft	154,5ft	193,2ft

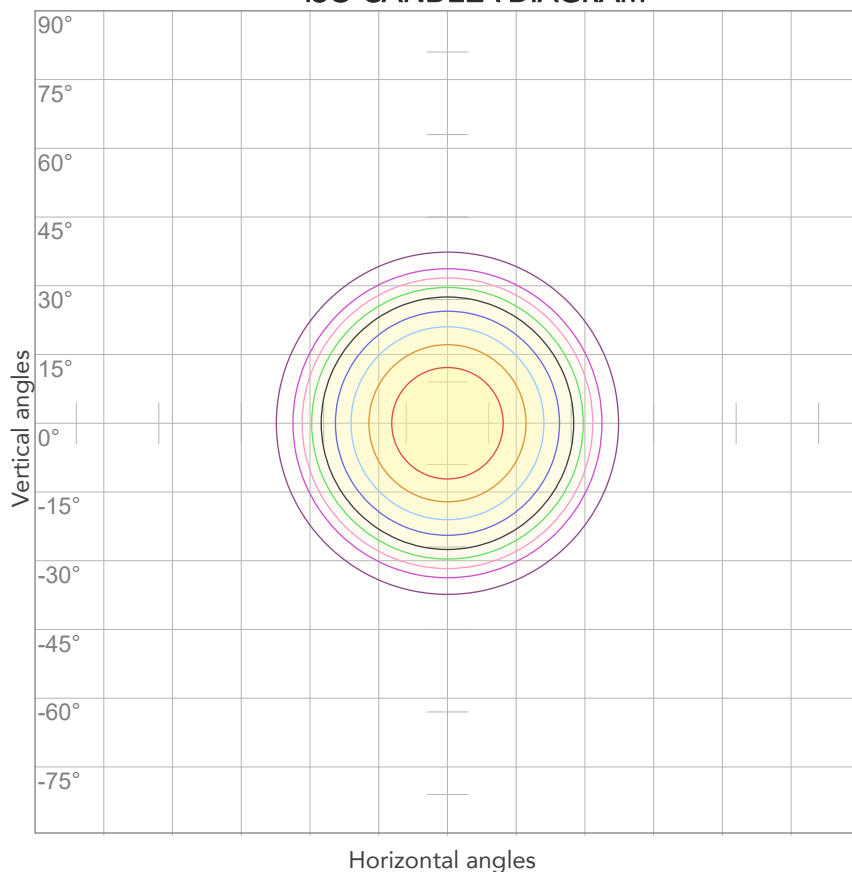
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,733A	158,4W	43lm/W

ISO CANDELA DIAGRAM



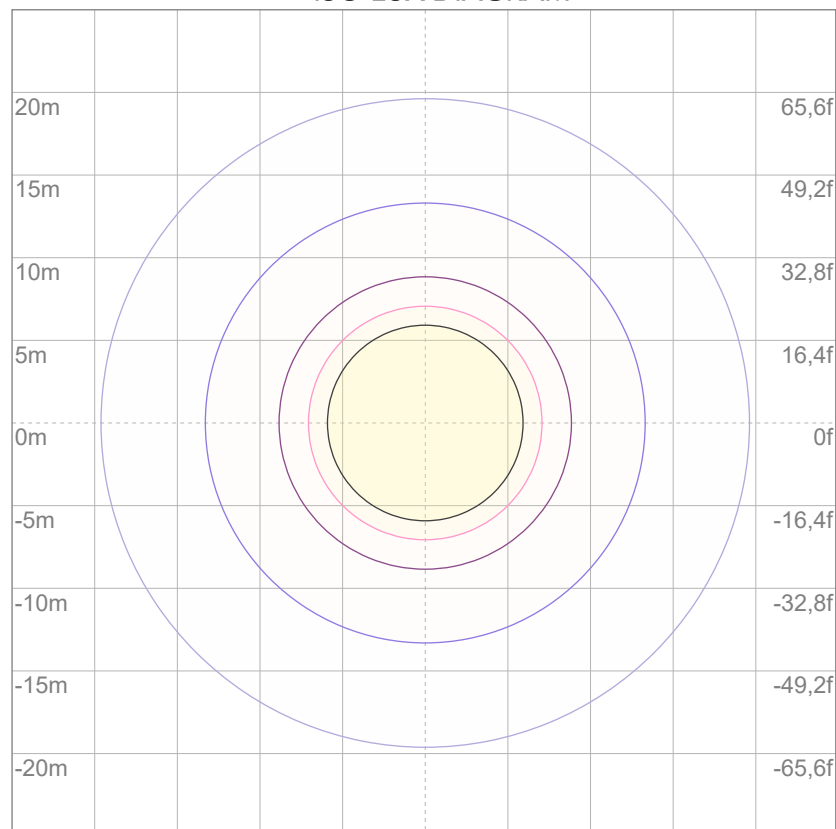
10%	705 cd
20%	1410 cd
30%	2115 cd
40%	2820 cd
50%	3524 cd
60%	4229 cd
70%	4934 cd
80%	5639 cd

Conditions:

Number of c-planes: 2

Candela at center: 7049 cd

ISO LUX DIAGRAM



3%	2,11 lx
5%	3,52 lx
10%	7,05 lx
30%	21,1 lx
50%	35,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 70,5 lx

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



Total lumen output:

7335 lm

Peak candela output:

32302 cd

Light quality:

CRI: 95,1

Color temperature:

4022 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

20°

Target:

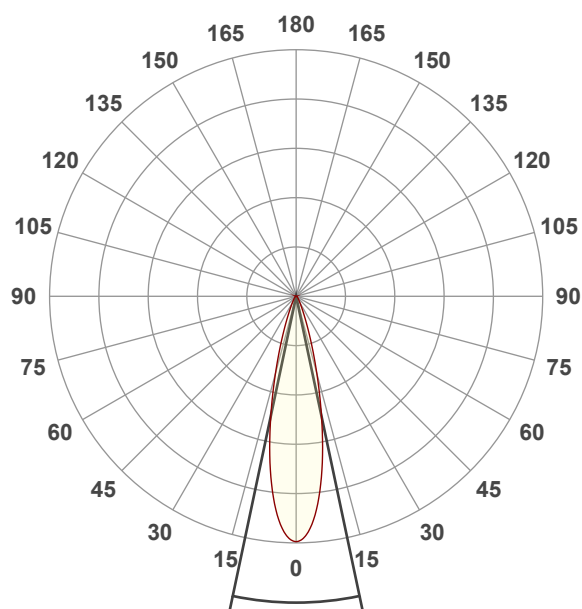
4000K

Operator:

Paolo Carvone

Date and time:

18/10/2022 13:22:38

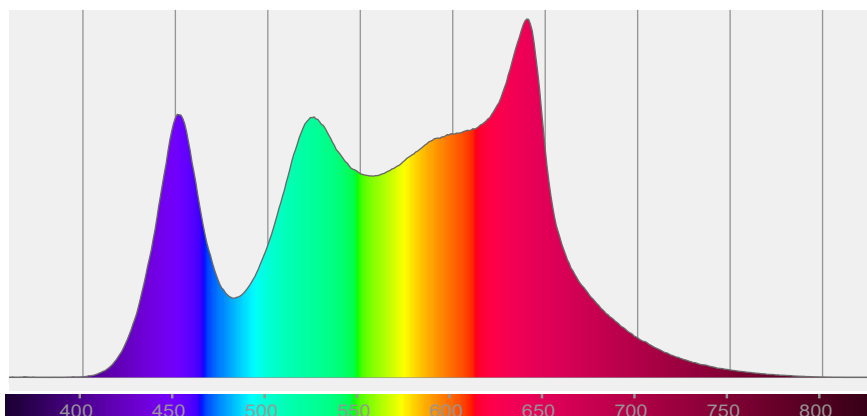


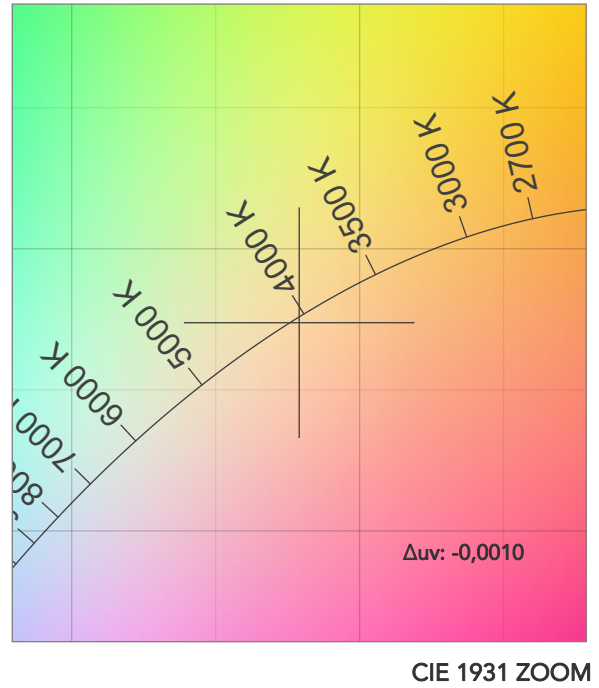
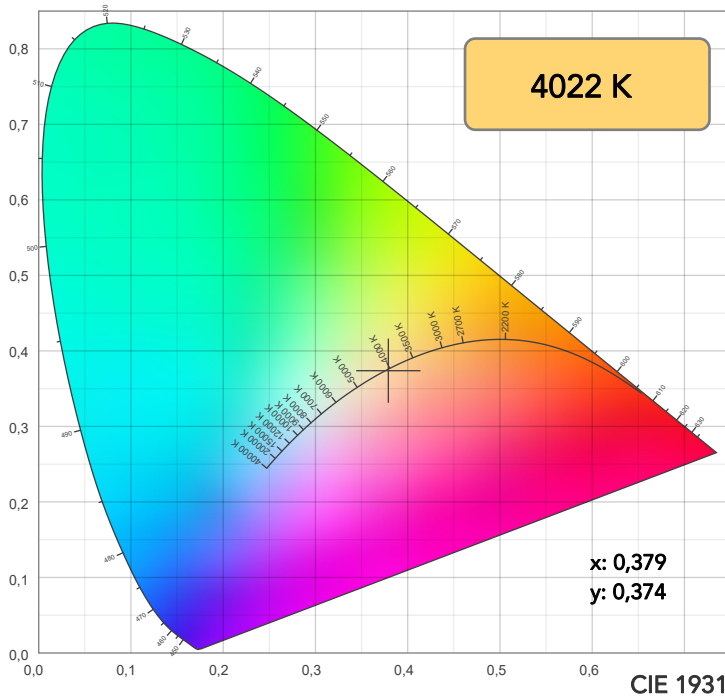
Beam angle 50%: 23,9°

Field angle 10%: 43,8°

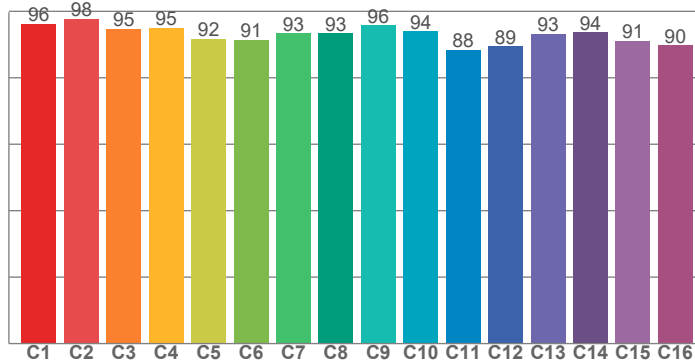
Cut off angle 2.5%: 64,6°

Spectra

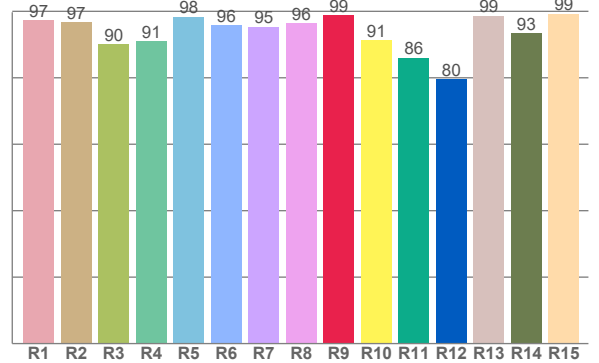




TM30: 93,2



CRI: 95,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,4	96,8	90,1	91,0	98,4	95,7	95,3	96,3	98,7	91,3	86,0	79,5	98,6	93,3	99,2

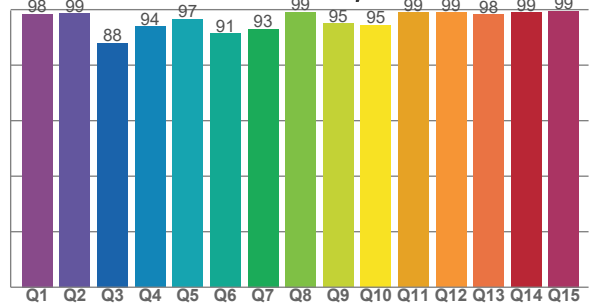
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,2	97,7	94,8	95,1	91,7	91,4	93,3	93,4	95,7	94,0	88,4	89,4	93,2	93,7	91,2	89,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,4	98,6	87,9	94,0	96,5	91,4	93,1	99,1	94,9	94,5	98,9	99,0	98,2	98,9	99,5

CQS: 94,9



COLOR PARAMETERS

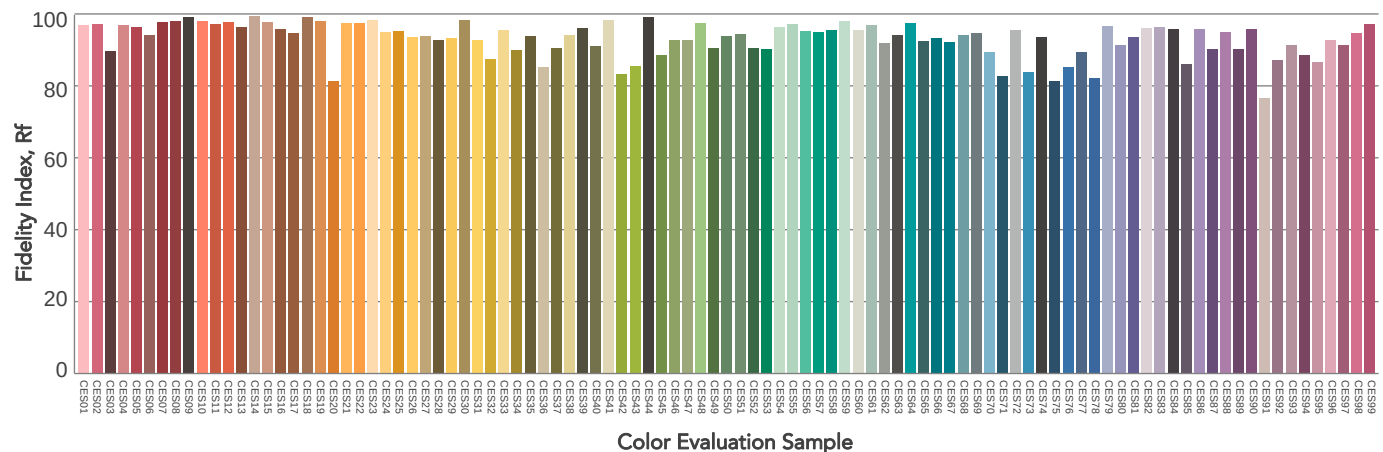
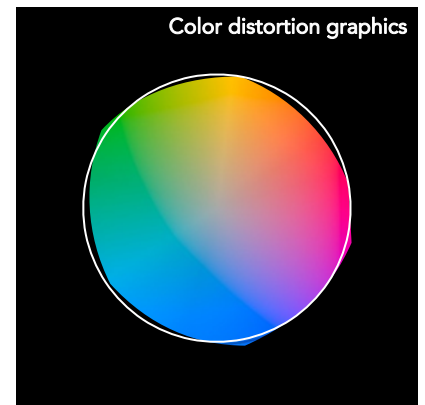
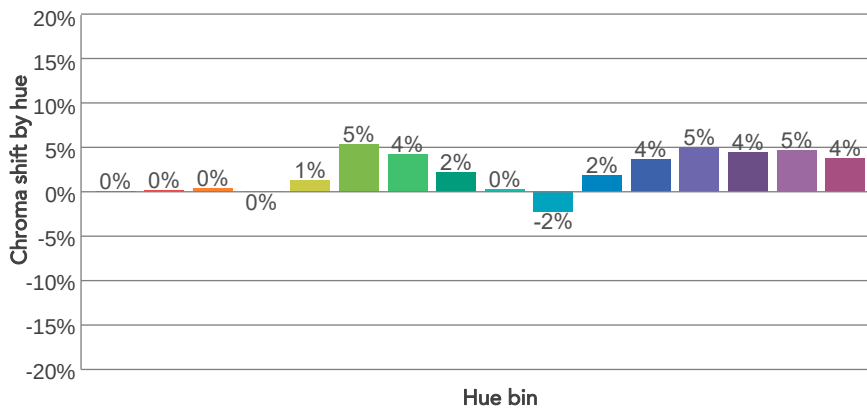
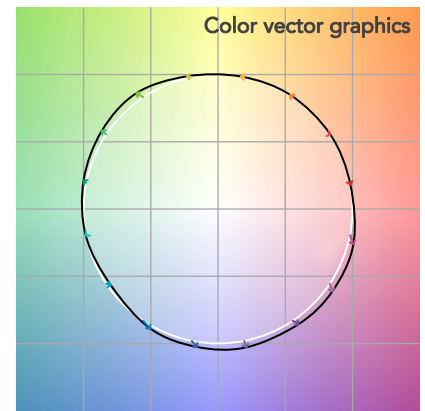
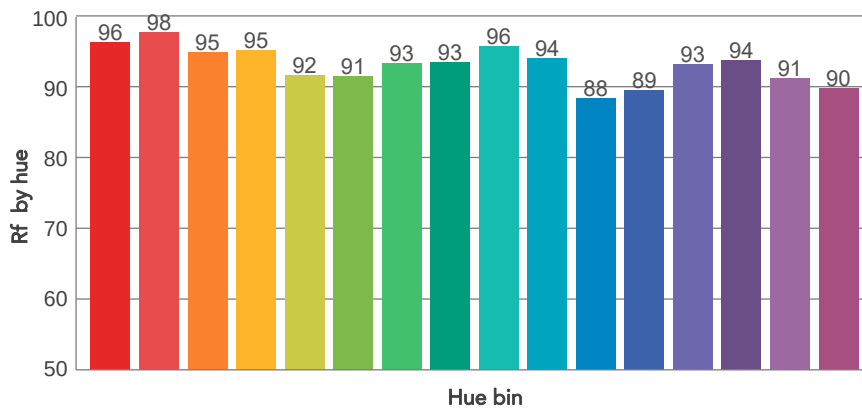
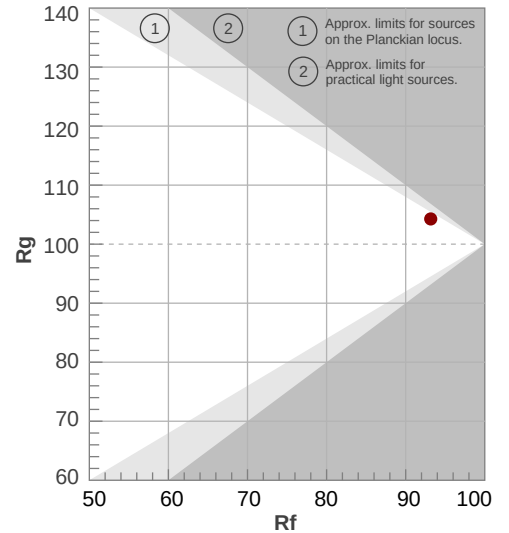
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4022 K	95,1	98,7	93,2	104,3	94,9	91	0,379	0,374	-0,0010

TM30 DETAILS

Rf 93,2
Fidelity index Rf

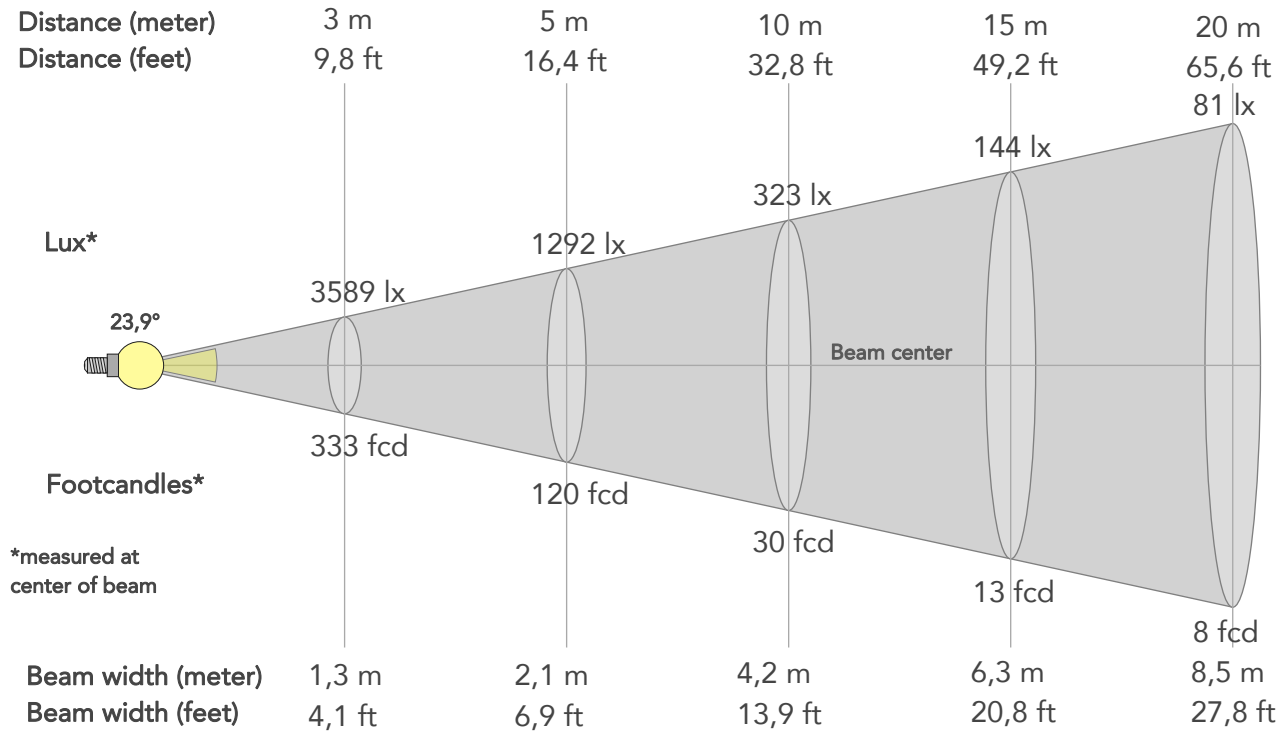
Rg 104,3
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	0%	-1%
2	98	0%	0%
3	95	0%	2%
4	95	0%	2%
5	92	1%	3%
6	91	5%	3%
7	93	4%	0%
8	93	2%	-1%
9	96	0%	0%
10	94	-2%	3%
11	88	2%	7%
12	89	4%	5%
13	93	5%	1%
14	94	4%	2%
15	91	5%	-4%
16	90	4%	-6%



BEAM DETAILS

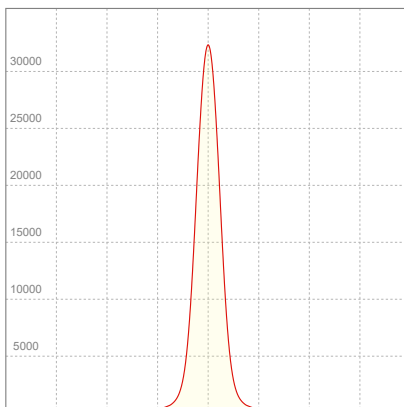
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,9°	43,8°	64,6°	98,8%	94,5%



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	32302lx	8075lx	3589lx	2019lx	1292lx	574lx	323lx	144lx	81lx	52lx	36lx	20lx	13lx
Footcand.	3001fcd	750fcd	333fcd	188fcd	120fcd	53fcd	30fcd	13fcd	8fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,4m	0,8m	1,3m	1,7m	2,1m	3,2m	4,2m	6,3m	8,5m	10,6m	12,7m	16,9m	21,2m
Beam wid.	1,4ft	2,8ft	4,1ft	5,5ft	6,9ft	10,4ft	13,9ft	20,8ft	27,8ft	34,7ft	41,6ft	55,5ft	69,4ft

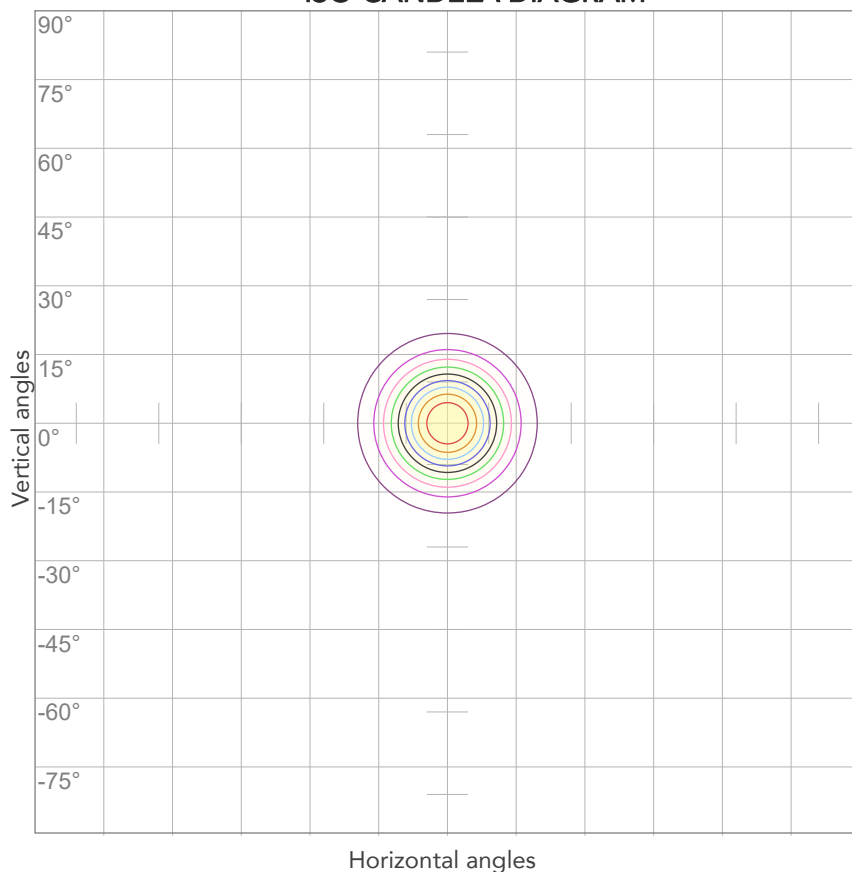
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,783A	168,2W	44lm/W

ISO CANDELA DIAGRAM



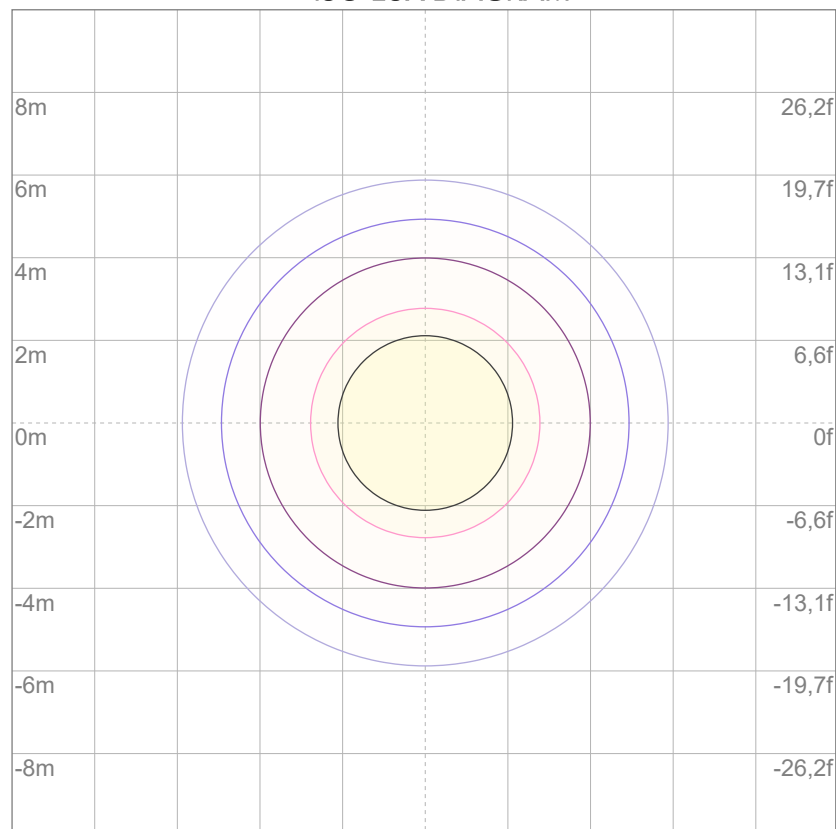
10%	3230 cd
20%	6460 cd
30%	9690 cd
40%	12921 cd
50%	16151 cd
60%	19381 cd
70%	22611 cd
80%	25841 cd

Conditions:

Number of c-planes: 2

Candela at center: 32302 cd

ISO LUX DIAGRAM



3%	9,69 lx
5%	16,2 lx
10%	32,3 lx
30%	96,9 lx
50%	162 lx

Conditions:

Number of c-planes: 2

Lux at center: 323 lx

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



Total lumen output:

7963 lm

Peak candela output:

14365 cd

Light quality:

CRI: 94,4

Color temperature:

4022 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

40°

Target:

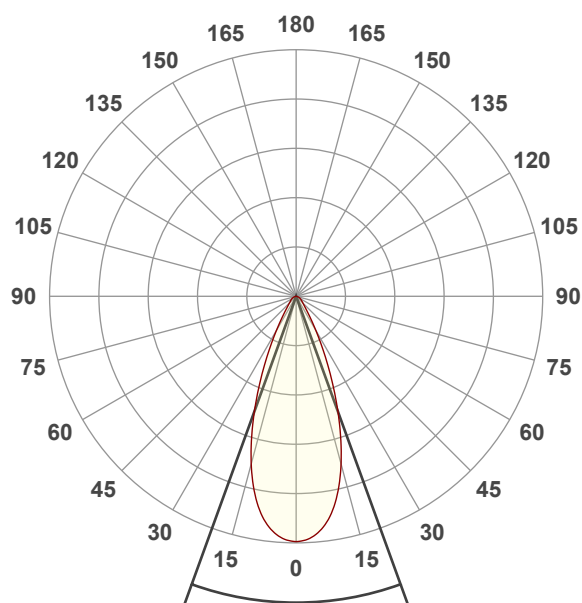
4000K

Operator:

Paolo Carvone

Date and time:

18/10/2022 14:28:37

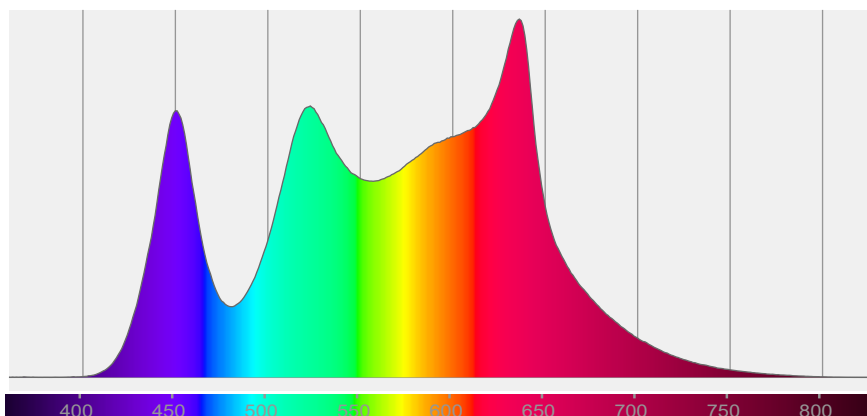


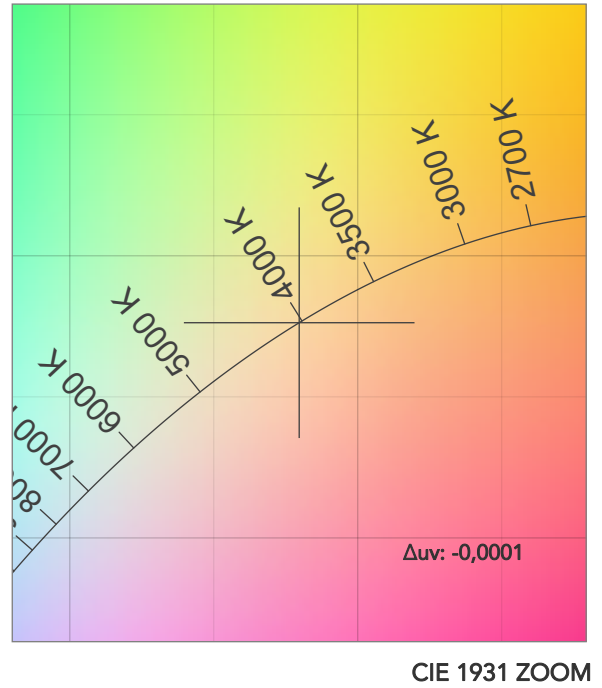
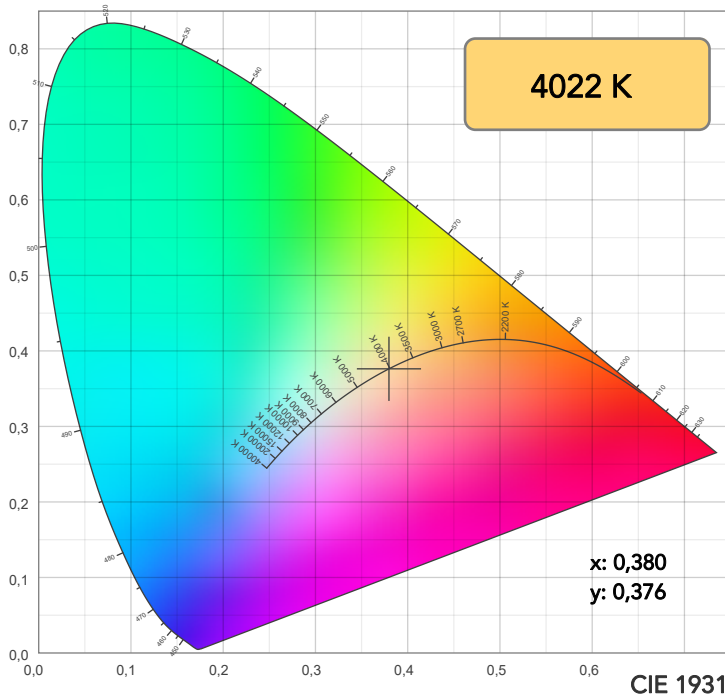
Beam angle 50%: 39,9°

Field angle 10%: 67,8°

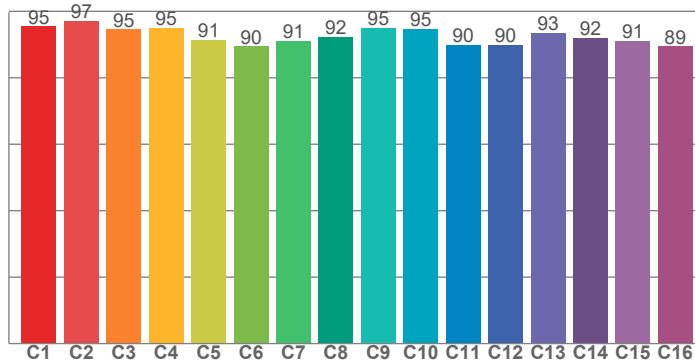
Cut off angle 2.5%: 109,9°

Spectra

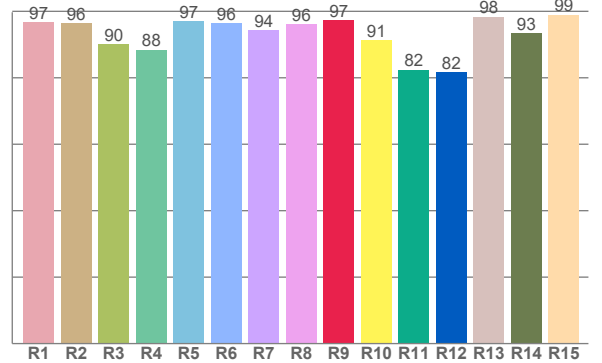




TM30: 92,8



CRI: 94,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,7	96,4	90,0	88,4	97,1	96,4	94,3	96,1	97,2	91,4	82,4	81,6	98,4	93,4	99,0

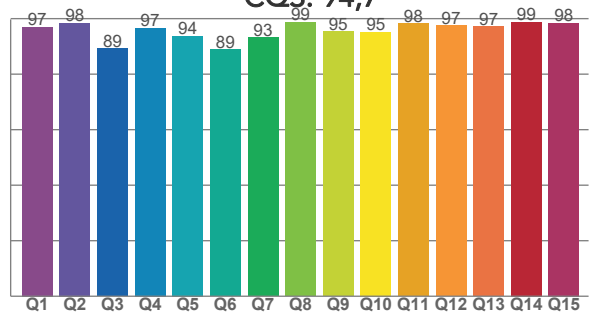
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,4	97,2	94,6	95,1	91,4	89,5	91,1	92,4	95,0	94,7	89,8	90,0	93,5	92,0	91,1	89,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,9	98,5	89,2	96,5	93,7	88,8	93,2	98,7	95,3	95,1	98,2	97,4	97,1	98,8	98,4

CQS: 94,7

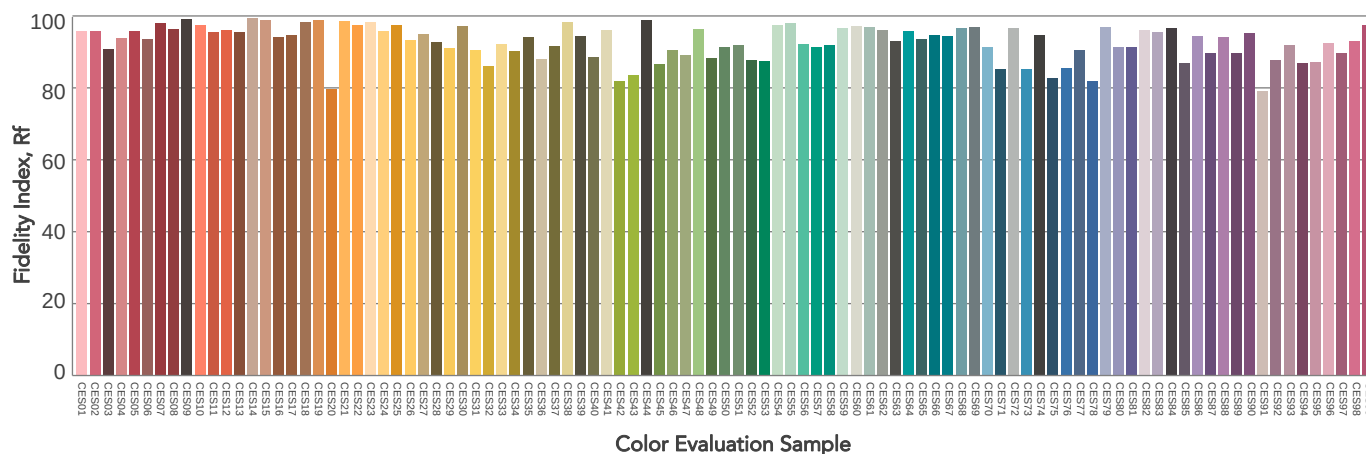


COLOR PARAMETERS

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
4022 K	94,4	97,2	92,8	104,9	94,7	87	0,380	0,376	-0,0001

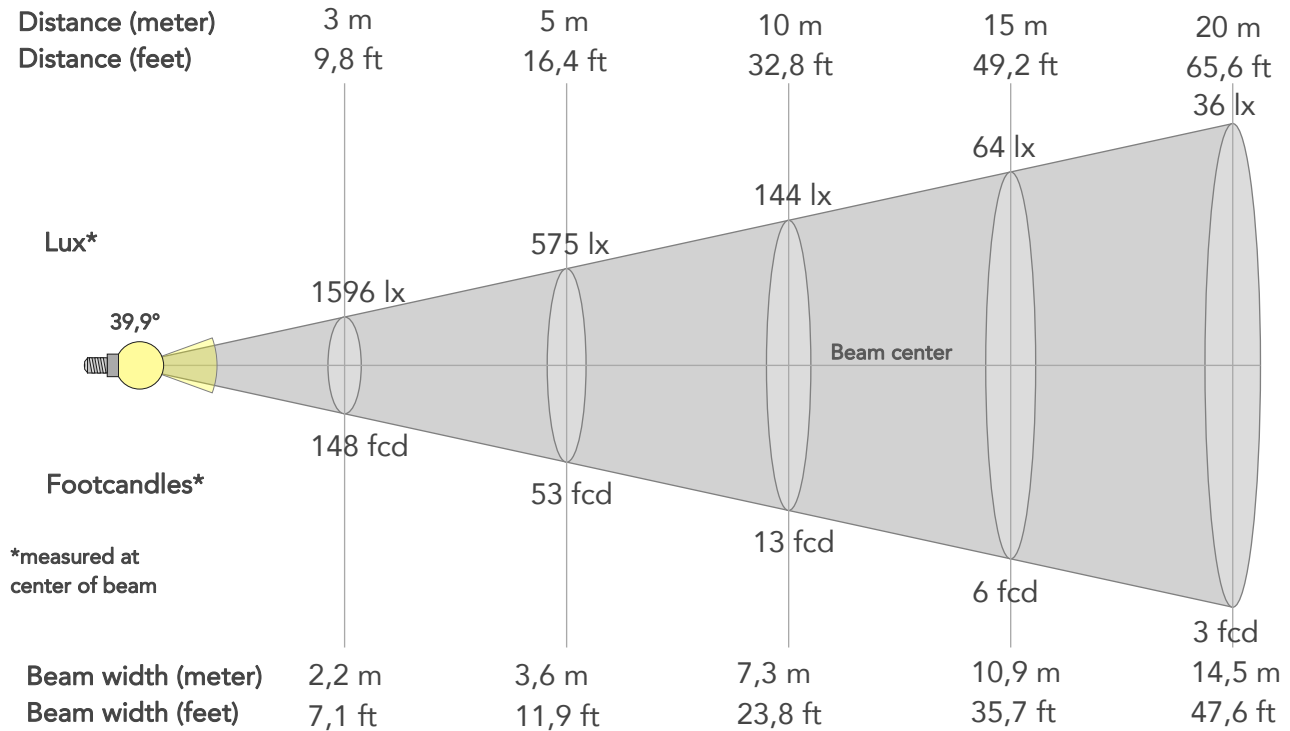
Gammut index

		Graphic shifts (%)	
Hue Bin	R_i	Chroma	Hue
1	95	0%	-2%
2	97	0%	0%
3	95	0%	3%
4	95	0%	3%
5	91	2%	4%
6	90	7%	3%
7	91	6%	-1%
8	92	3%	-2%
9	95	1%	-2%
10	95	-3%	1%
11	90	1%	6%
12	90	3%	5%
13	93	5%	-1%
14	92	4%	3%
15	91	5%	-4%
16	89	4%	-6%



BEAM DETAILS

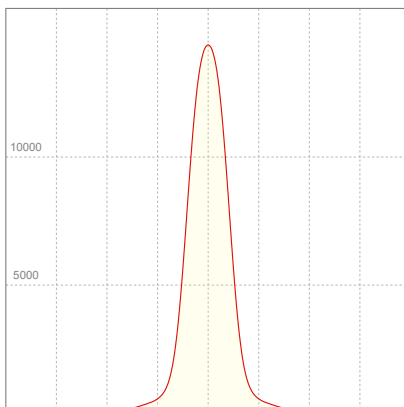
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,9°	67,8°	109,9°	95,9%	89,4%



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	14365lx	3591lx	1596lx	898lx	575lx	255lx	144lx	64lx	36lx	23lx	16lx	9lx	6lx
Footcand.	1335fcd	334fcd	148fcd	83fcd	53fcd	24fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	1fcd
Beam wid.	0,7m	1,5m	2,2m	2,9m	3,6m	5,4m	7,3m	10,9m	14,5m	18,1m	21,8m	29m	36,3m
Beam wid.	2,4ft	4,8ft	7,1ft	9,5ft	11,9ft	17,8ft	23,8ft	35,7ft	47,6ft	59,5ft	71,4ft	95,1ft	118,9ft

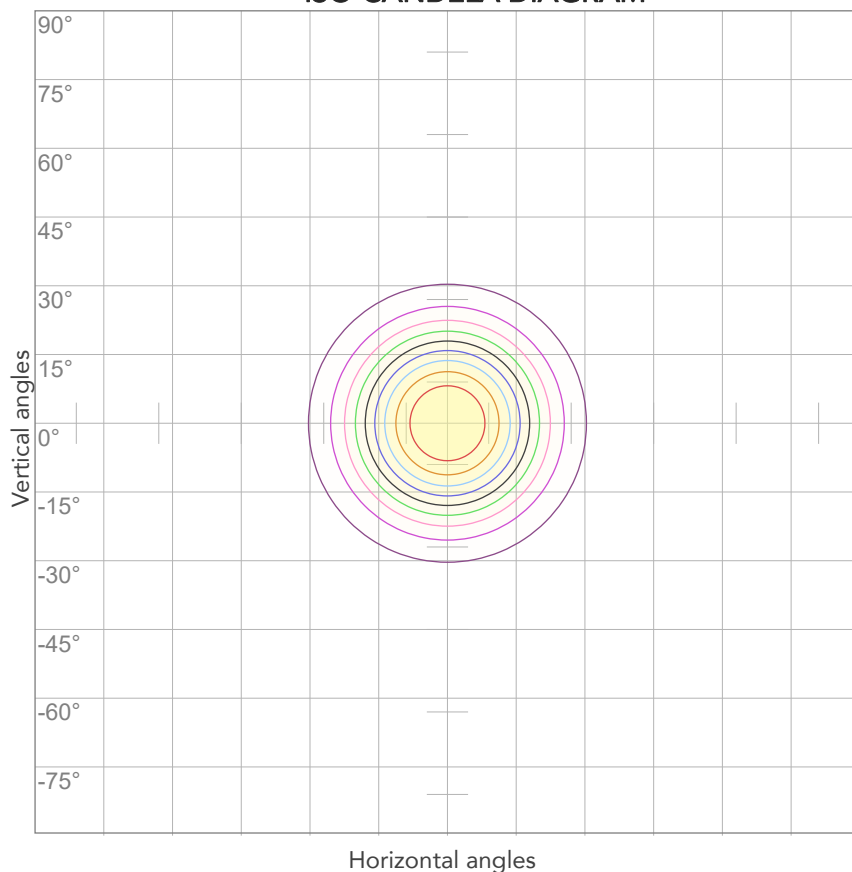
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,795A	173,2W	46lm/W

ISO CANDELA DIAGRAM



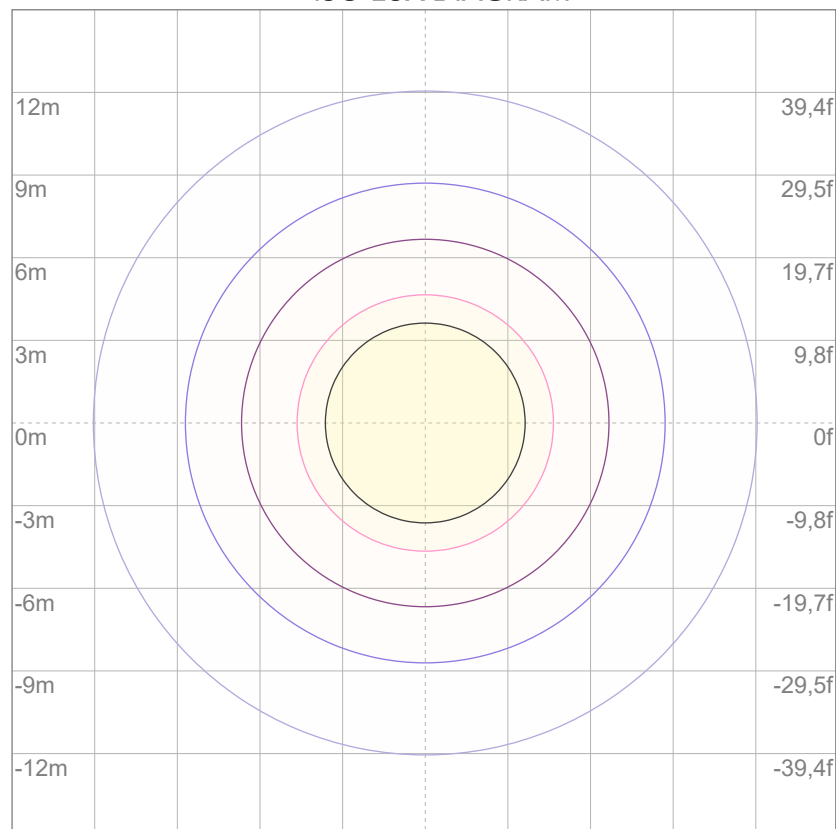
10%	1437 cd
20%	2873 cd
30%	4310 cd
40%	5746 cd
50%	7183 cd
60%	8619 cd
70%	10056 cd
80%	11492 cd

Conditions:

Number of c-planes: 2

Candela at center: 14365 cd

ISO LUX DIAGRAM



3%	4,31 lx
5%	7,18 lx
10%	14,4 lx
30%	43,1 lx
50%	71,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 144 lx

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



Total lumen output:

7990 lm

Peak candela output:

7709 cd

Light quality:

CRI: 94,5

Color temperature:

4022 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

60°

Target:

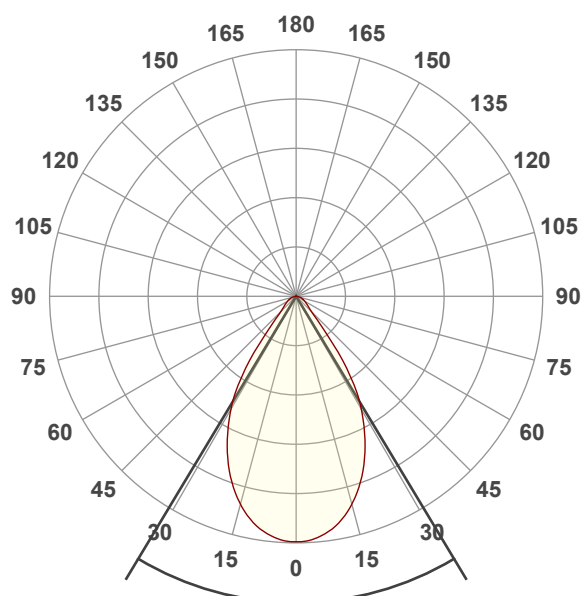
4000K

Operator:

Paolo Carvone

Date and time:

18/10/2022 14:32:30

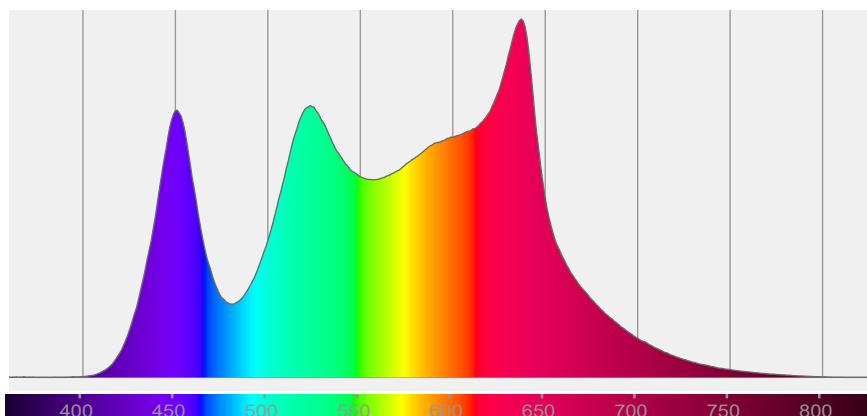


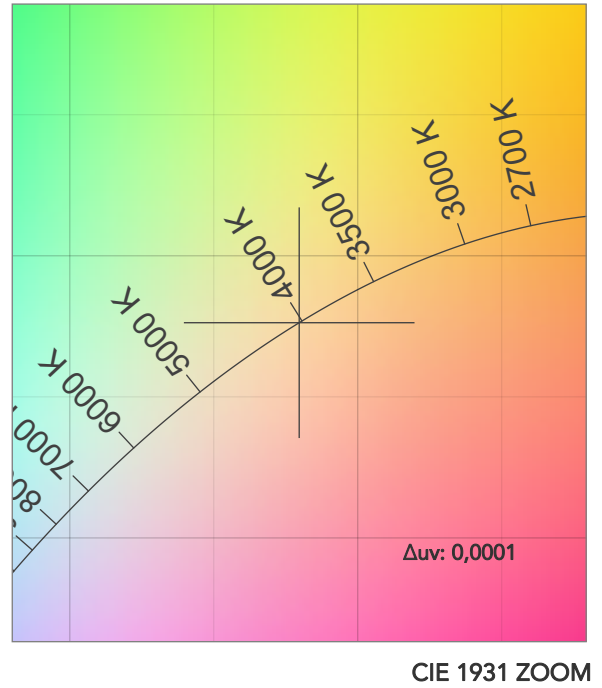
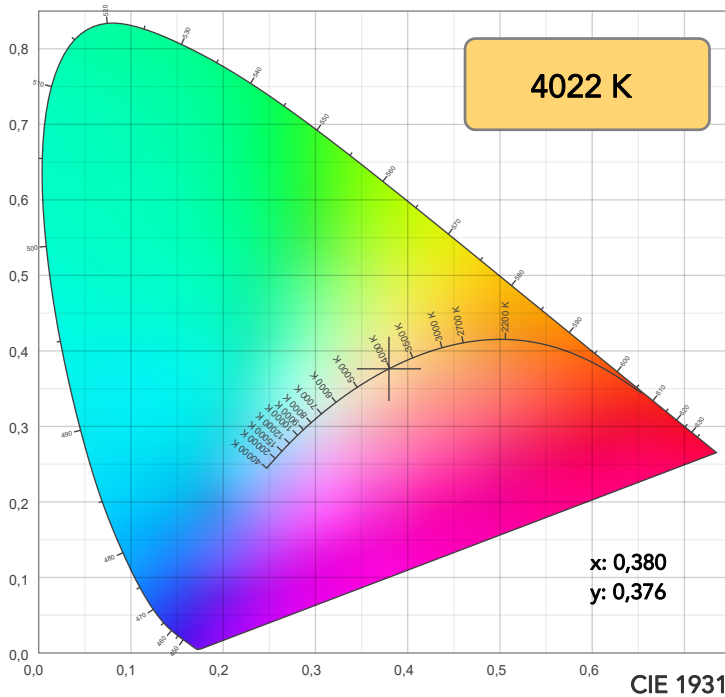
Beam angle 50%: 62,1°

Field angle 10%: 87,5°

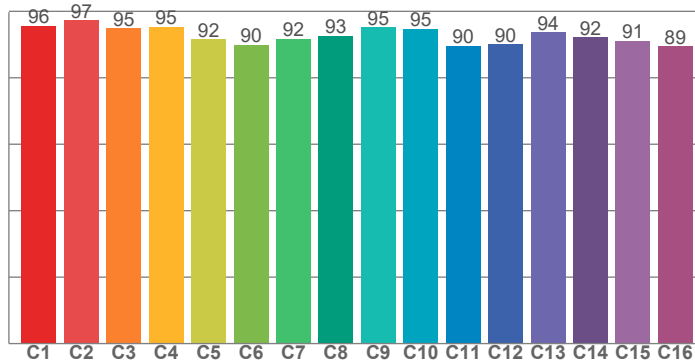
Cut off angle 2.5%: 140,2°

Spectra

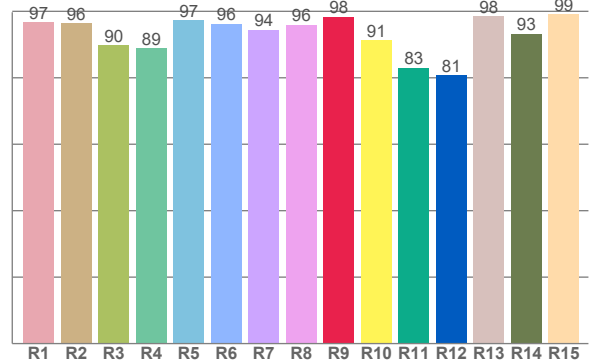




TM30: 93,0



CRI: 94,5 (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
96,8	96,5	89,8	88,9	97,3	96,3	94,5	96,0	98,4	91,2	83,1	80,8	98,4	93,2	99,2

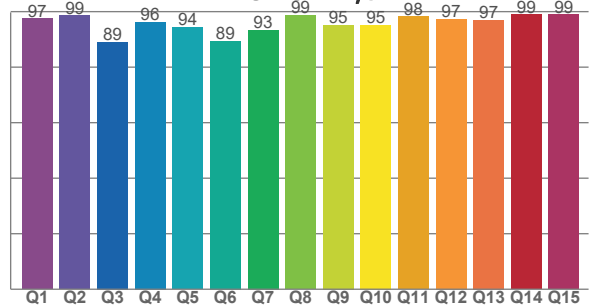
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,6	97,2	94,9	95,3	91,5	90,0	91,7	92,6	95,2	94,7	89,6	90,0	93,7	92,1	91,2	89,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,5	98,6	89,1	96,2	94,4	89,4	93,4	98,7	95,2	95,1	98,2	97,3	96,9	98,9	98,9

CQS: 94,8



COLOR PARAMETERS

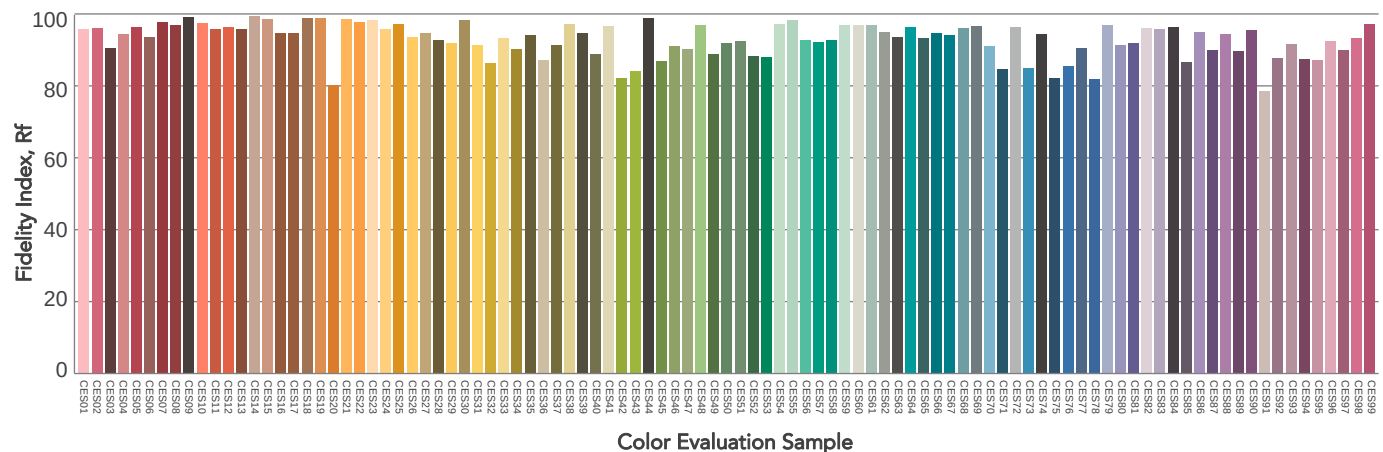
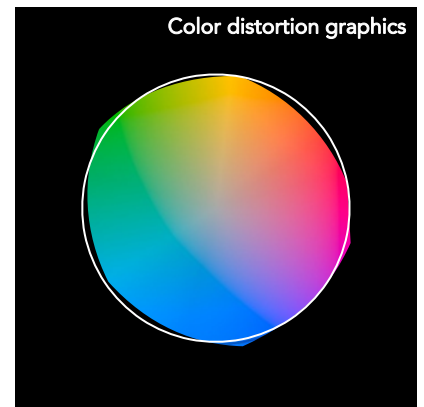
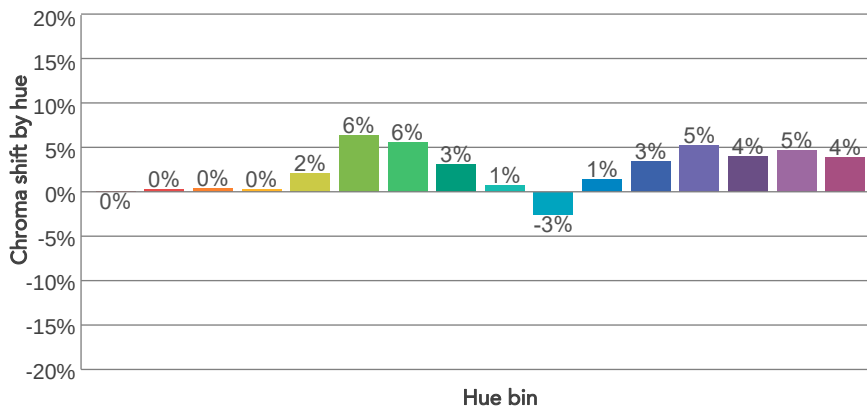
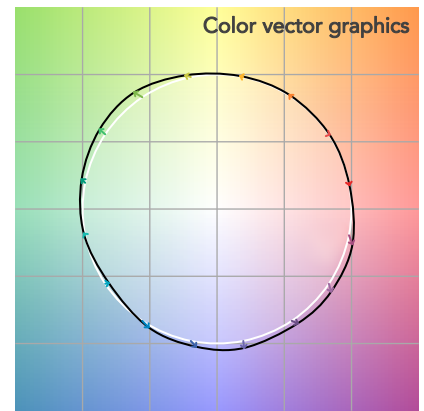
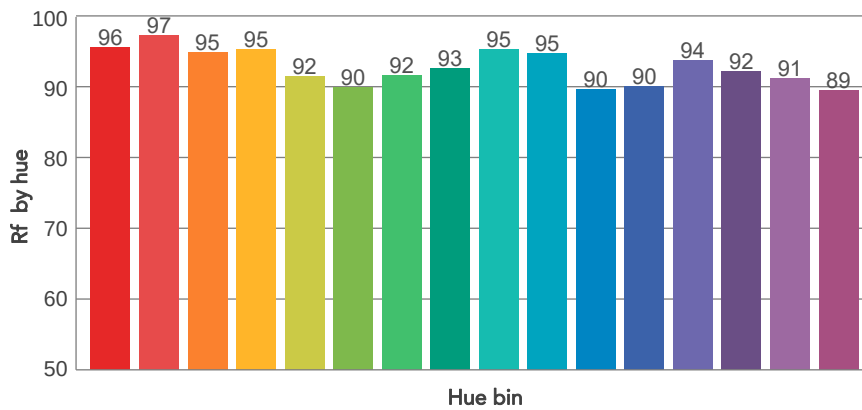
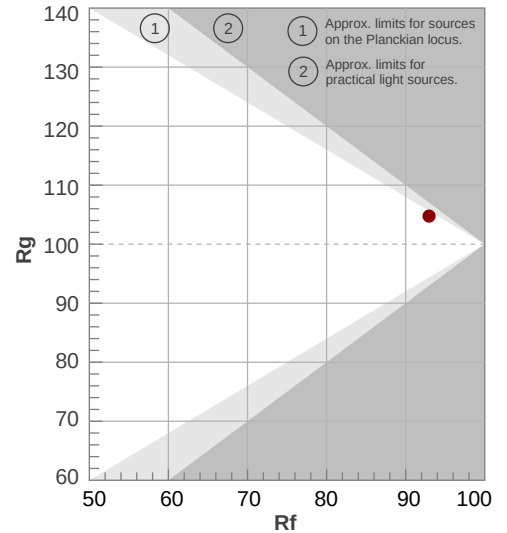
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4022 K	94,5	98,4	93,0	104,8	94,8	88	0,380	0,376	0,0001

TM30 DETAILS

Rf 93,0
Fidelity index Rf

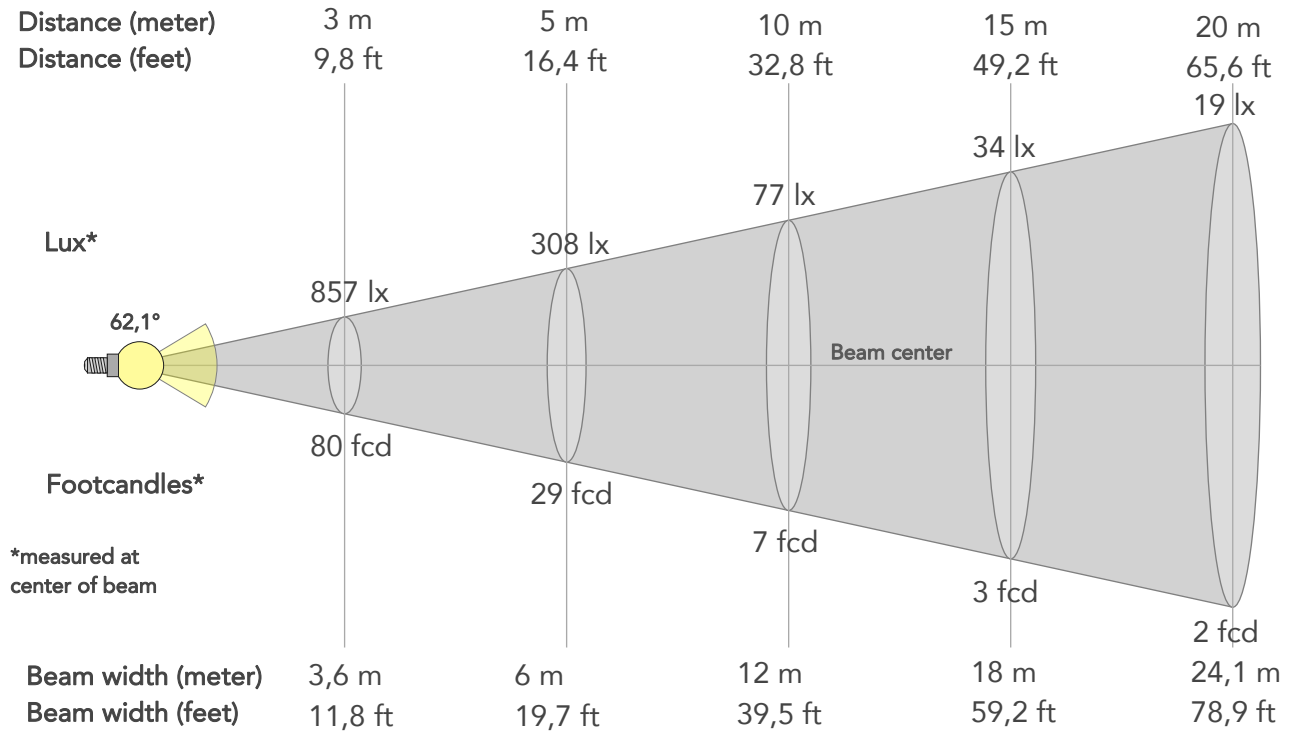
Rg 104,8
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	0%	-2%
2	97	0%	-1%
3	95	0%	2%
4	95	0%	2%
5	92	2%	4%
6	90	6%	3%
7	92	6%	-1%
8	93	3%	-2%
9	95	1%	-1%
10	95	-3%	1%
11	90	1%	7%
12	90	3%	5%
13	94	5%	0%
14	92	4%	3%
15	91	5%	-4%
16	89	4%	-6%



BEAM DETAILS

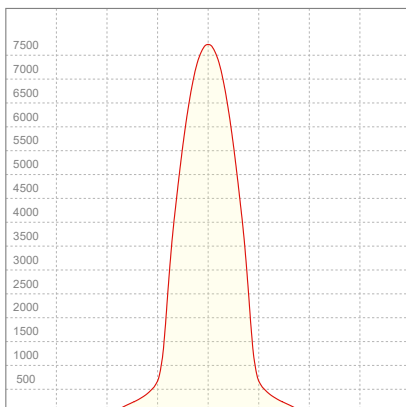
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,1°	87,5°	140,2°	94,7%	87,4%



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	7709lx	1927lx	857lx	482lx	308lx	137lx	77lx	34lx	19lx	12lx	9lx	5lx	3lx
Footcand.	716fcd	179fcd	80fcd	45fcd	29fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,8m	6m	9m	12m	18m	24,1m	30,1m	36,1m	48,1m	60,1m
Beam wid.	4ft	7,9ft	11,8ft	15,8ft	19,7ft	29,6ft	39,5ft	59,2ft	78,9ft	98,6ft	118,4ft	157,8ft	197,3ft

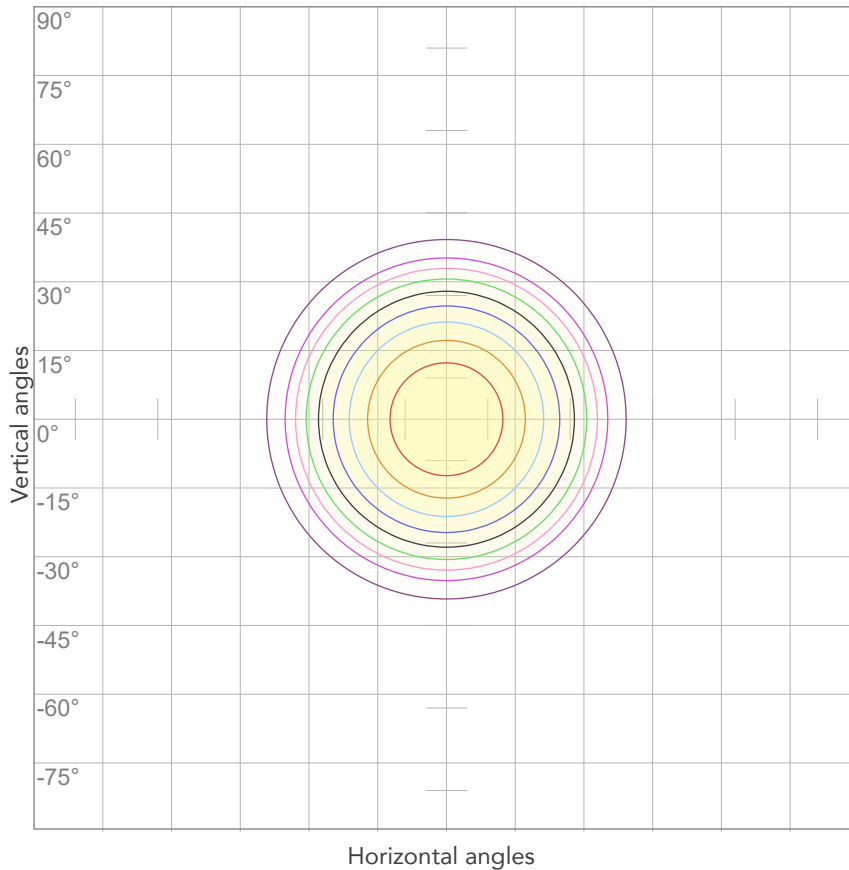
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,790A	171,9W	46lm/W

ISO CANDELA DIAGRAM



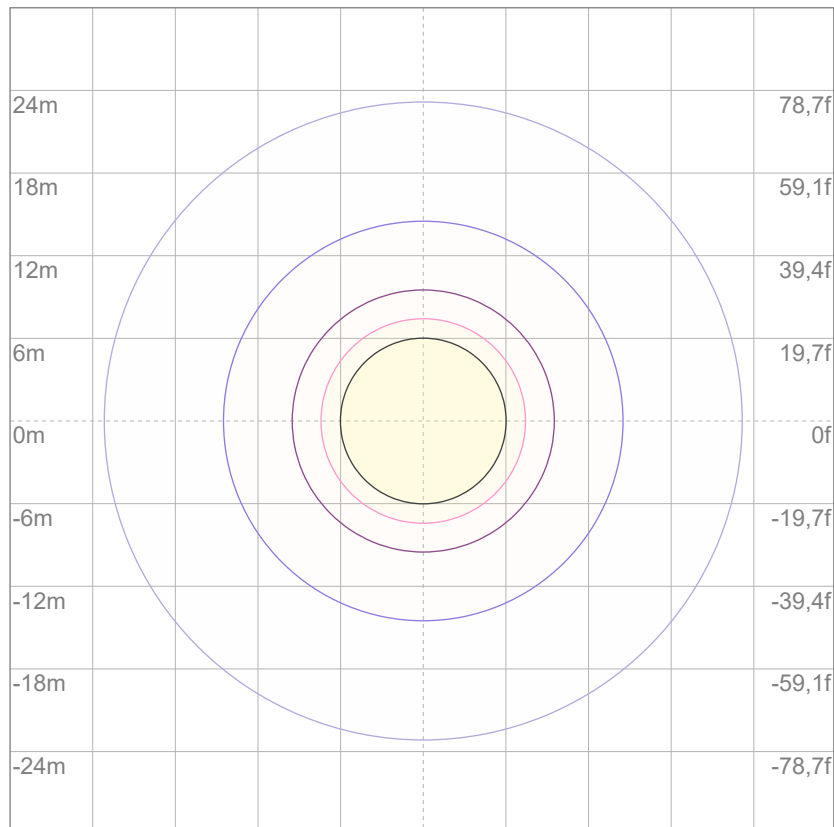
10%	771 cd
20%	1542 cd
30%	2313 cd
40%	3084 cd
50%	3855 cd
60%	4626 cd
70%	5397 cd
80%	6168 cd

Conditions:

Number of c-planes: 2

Candela at center: 7709 cd

ISO LUX DIAGRAM



3%	2,31 lx
5%	3,85 lx
10%	7,71 lx
30%	23,1 lx
50%	38,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 77,1 lx

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



Total lumen output:

7993 lm

Peak candela output:

34897 cd

Light quality:

CRI: 94,6

Color temperature:

5617 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

20°

Target:

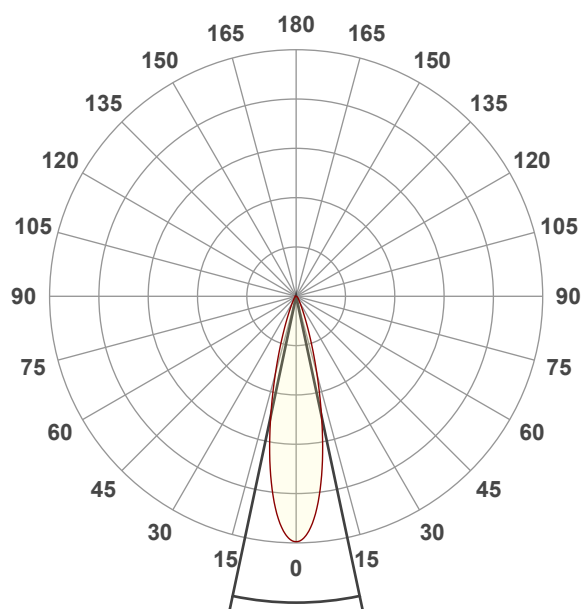
5600K

Operator:

Paolo Carvone

Date and time:

18/10/2022 13:24:34

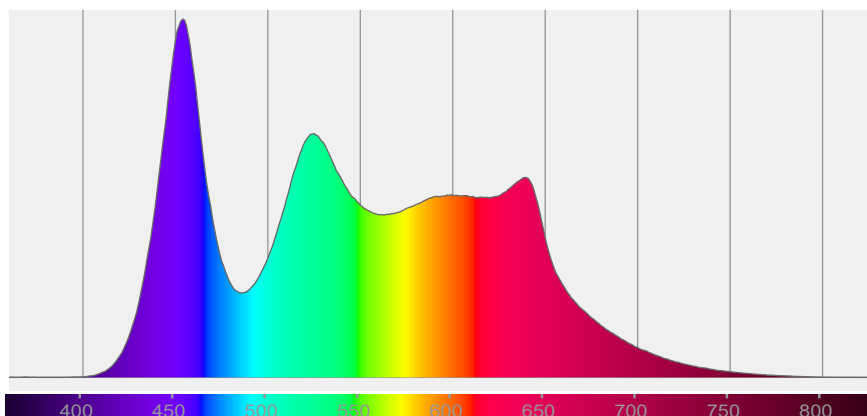


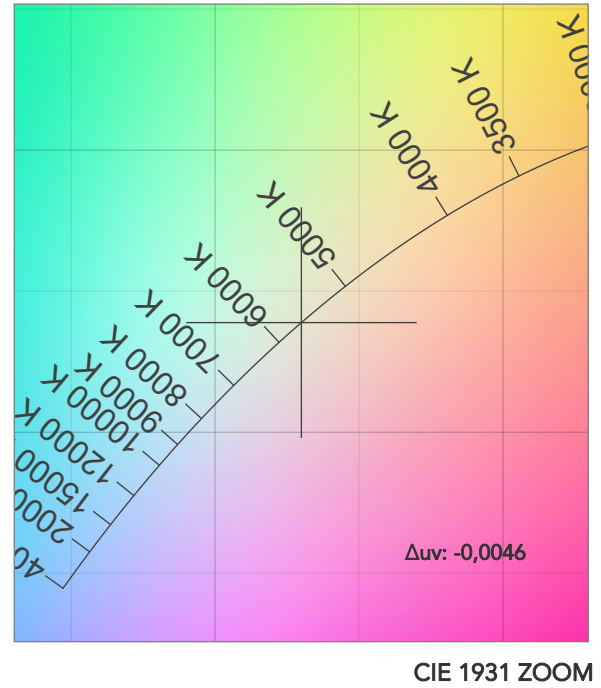
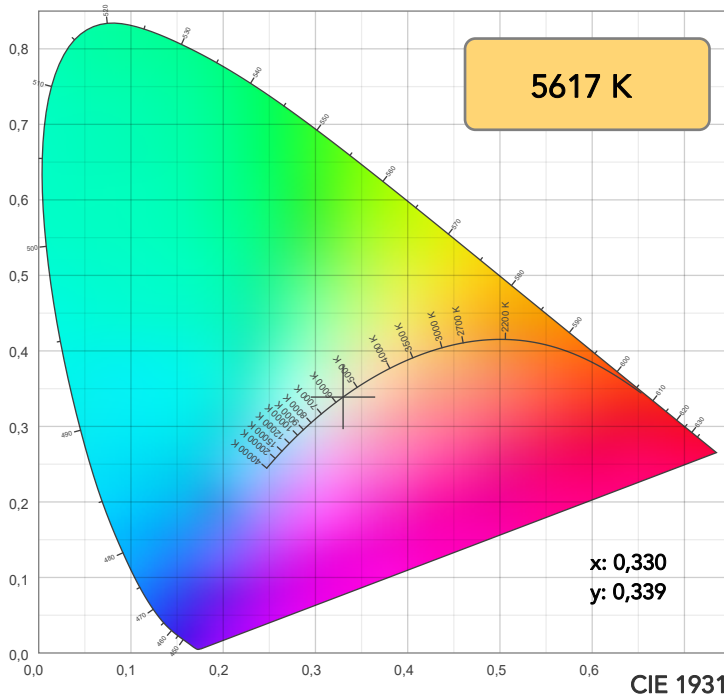
Beam angle 50%: 23,9°

Field angle 10%: 43,9°

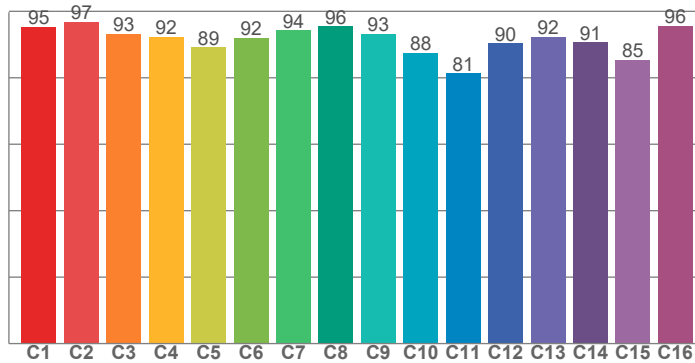
Cut off angle 2.5%: 65°

Spectra

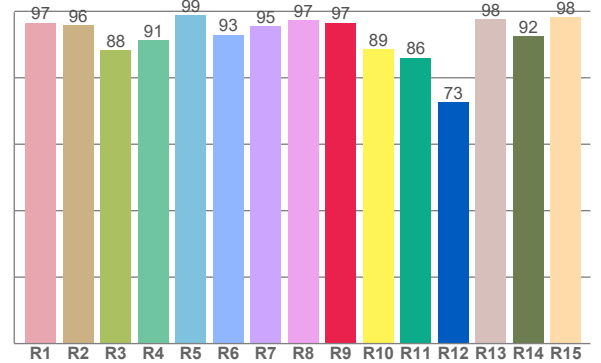




TM30: 91,3



CRI: 94,6 (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
96,6	95,9	88,3	91,4	98,9	92,9	95,4	97,4	96,6	88,6	86,1	72,6	97,7	92,5	98,1

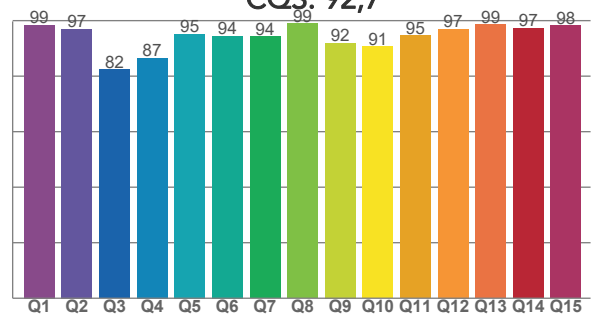
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	96,8	93,1	92,3	89,2	92,1	94,2	95,5	93,1	87,5	81,3	90,4	92,3	90,6	85,3	95,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,5	97,0	82,4	86,5	95,2	94,4	94,3	99,0	92,0	90,6	94,6	96,9	98,6	97,3	98,3

CQS: 92,7



COLOR PARAMETERS

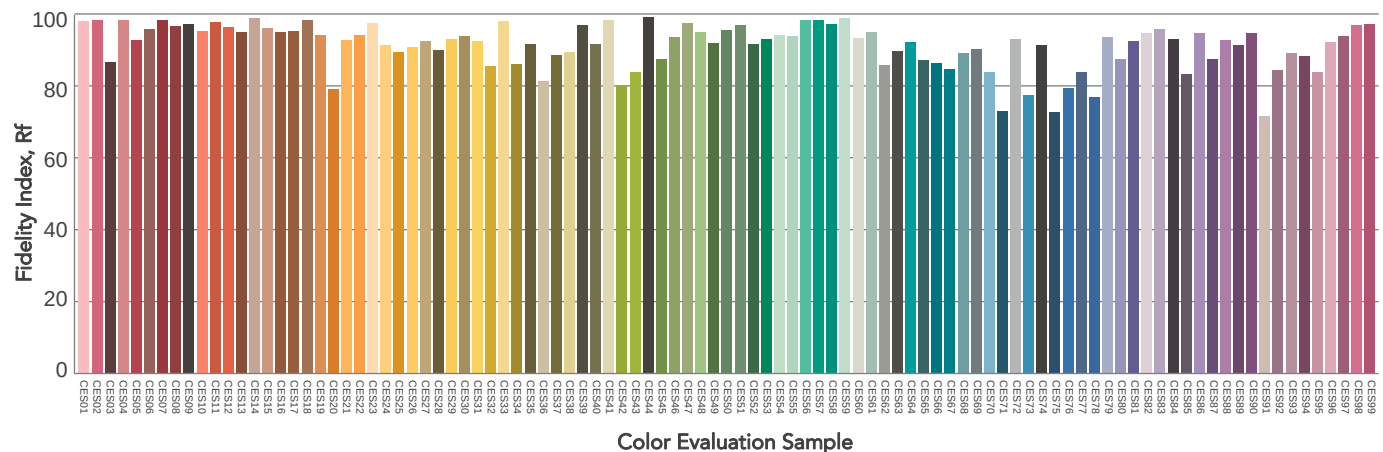
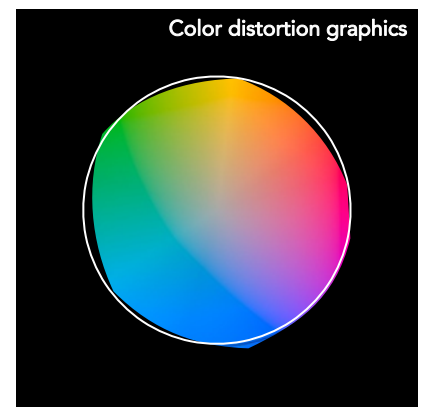
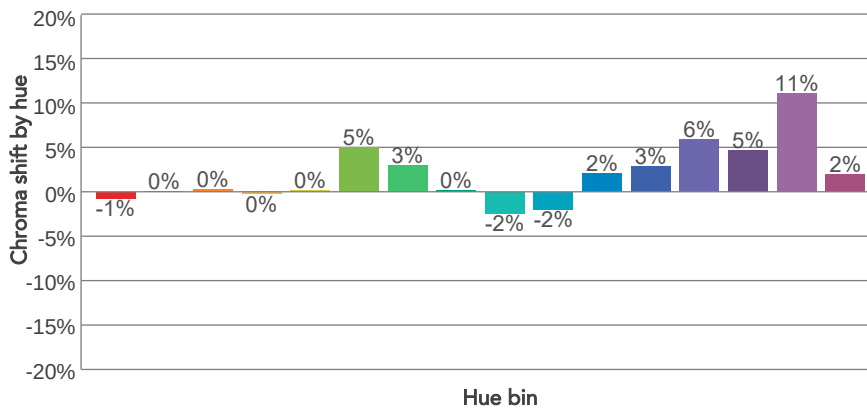
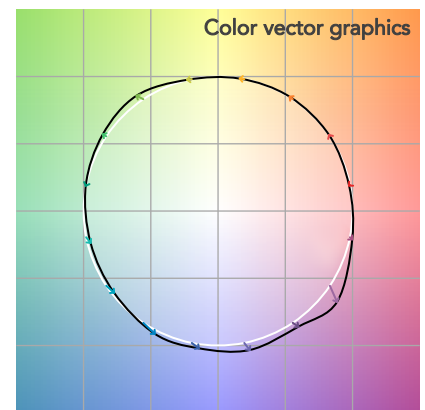
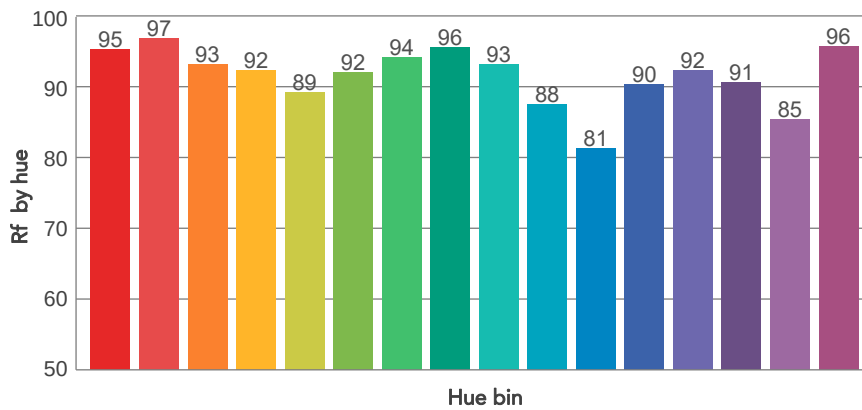
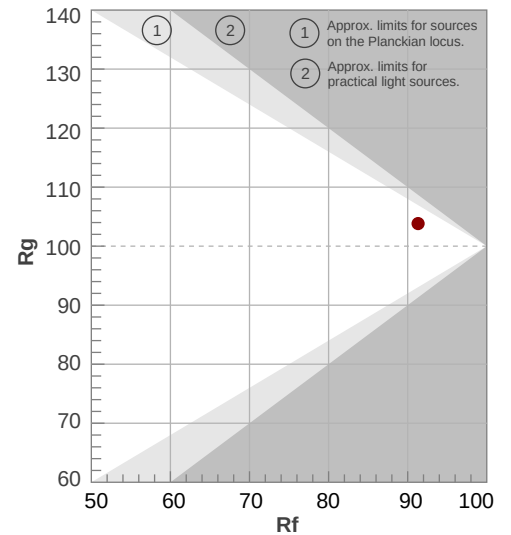
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5617 K	94,6	96,6	91,3	103,8	92,7	94	0,330	0,339	-0,0046

TM30 DETAILS

Rf 91,3
Fidelity index Rf

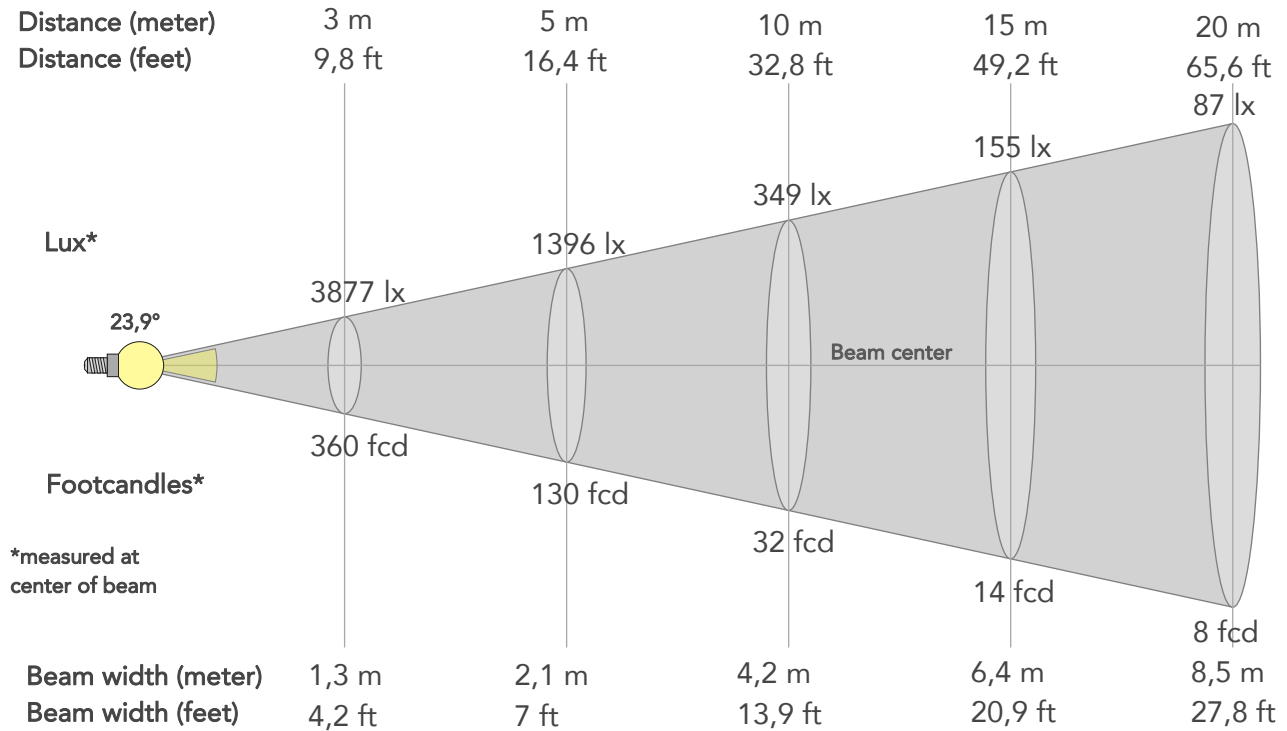
Rg 103,8
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	0%
2	97	0%	1%
3	93	0%	3%
4	92	0%	3%
5	89	0%	3%
6	92	5%	3%
7	94	3%	0%
8	96	0%	1%
9	93	-2%	5%
10	88	-2%	8%
11	81	2%	12%
12	90	3%	6%
13	92	6%	3%
14	91	5%	2%
15	85	11%	-7%
16	96	2%	-1%



BEAM DETAILS

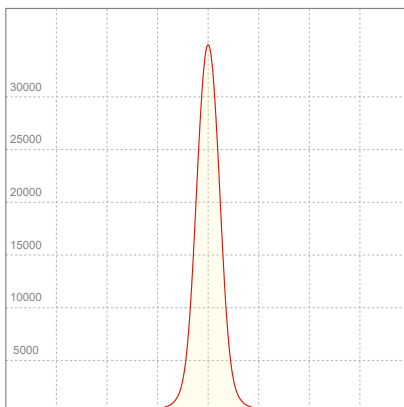
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,9°	43,9°	65°	98,7%	94,3%



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	34897lx	8724lx	3877lx	2181lx	1396lx	620lx	349lx	155lx	87lx	56lx	39lx	22lx	14lx
Footcand.	3242fcd	811fcd	360fcd	203fcd	130fcd	58fcd	32fcd	14fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	0,4m	0,8m	1,3m	1,7m	2,1m	3,2m	4,2m	6,4m	8,5m	10,6m	12,7m	17m	21,2m
Beam wid.	1,4ft	2,8ft	4,2ft	5,6ft	7ft	10,4ft	13,9ft	20,9ft	27,8ft	34,8ft	41,7ft	55,6ft	69,5ft

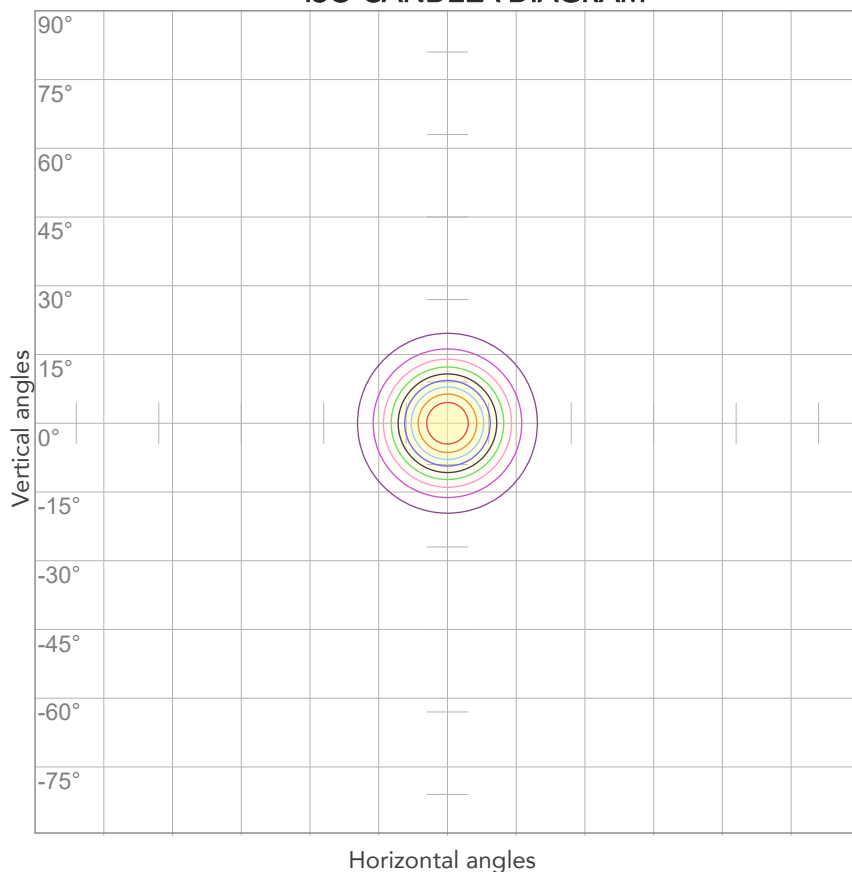
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,874A	189,4W	42lm/W

ISO CANDELA DIAGRAM



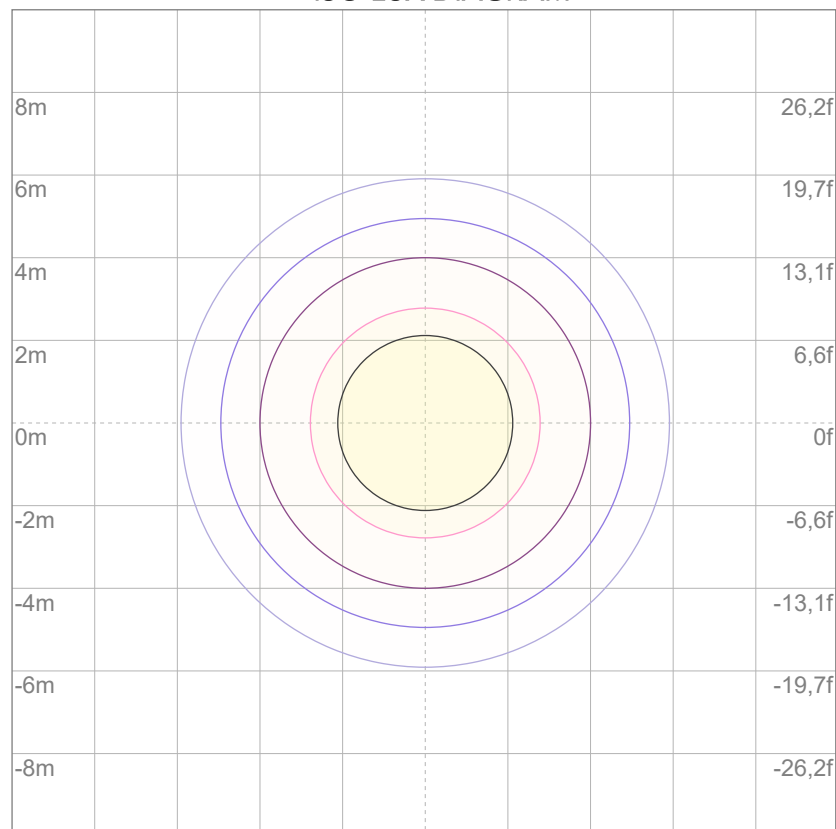
10%	3490 cd
20%	6979 cd
30%	10469 cd
40%	13959 cd
50%	17449 cd
60%	20938 cd
70%	24428 cd
80%	27918 cd

Conditions:

Number of c-planes: 2

Candela at center: 34897 cd

ISO LUX DIAGRAM



3%	10,5 lx
5%	17,4 lx
10%	34,9 lx
30%	105 lx
50%	174 lx

Conditions:

Number of c-planes: 2

Lux at center: 349 lx

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



Total lumen output:

8499 lm

Peak candela output:

15034 cd

Light quality:

CRI: 94,2

Color temperature:

5617 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

40°

Target:

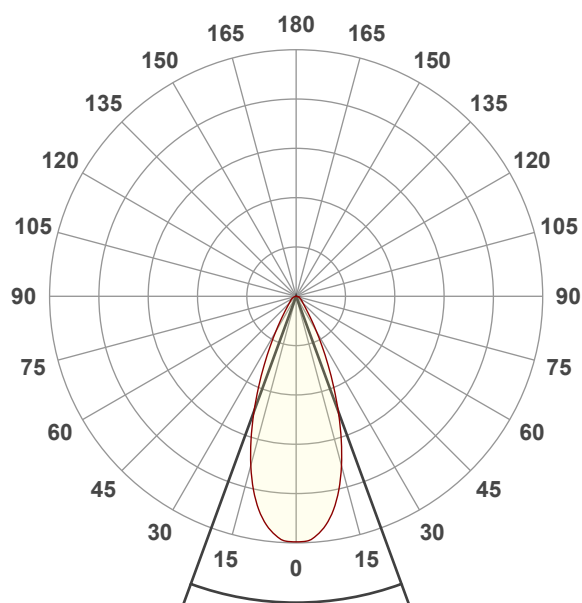
5600K

Operator:

Paolo Carvone

Date and time:

18/10/2022 14:38:42

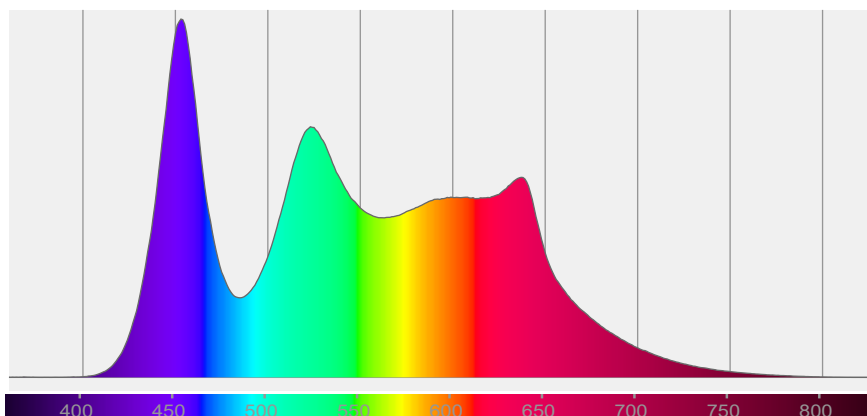


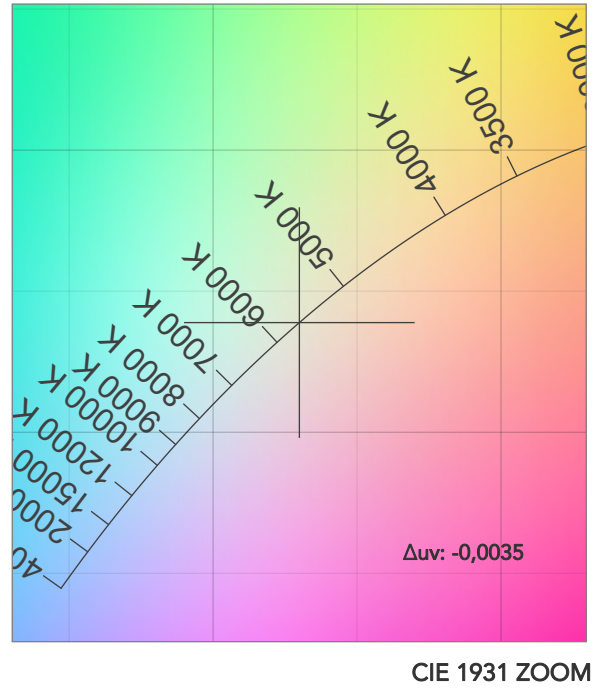
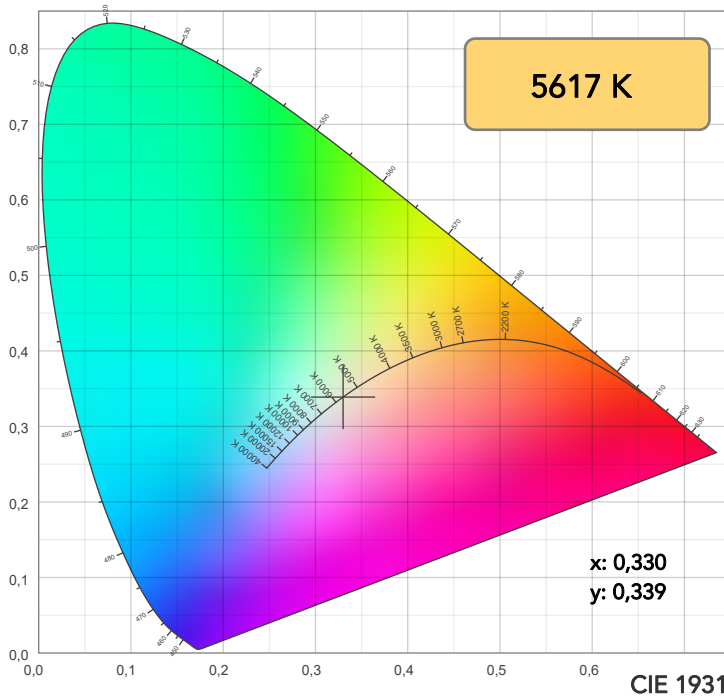
Beam angle 50%: 40,2°

Field angle 10%: 68,4°

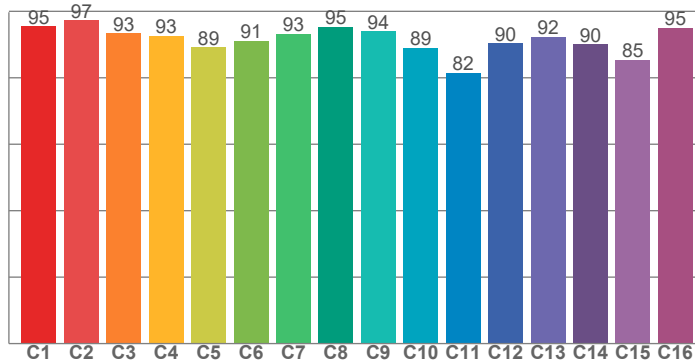
Cut off angle 2.5%: 111,2°

Spectra

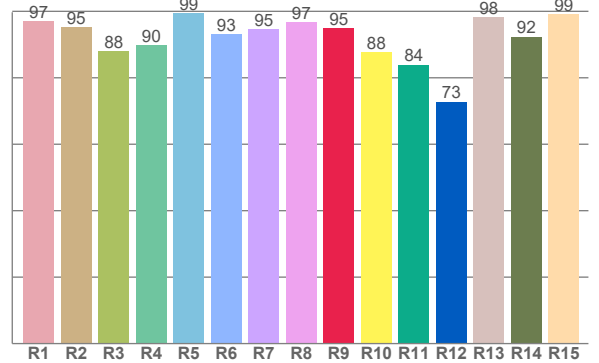




TM30: 91,4



CRI: 94,2 (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
97,0	95,3	87,9	89,8	99,3	93,1	94,5	96,8	95,0	87,7	84,0	72,8	98,2	92,3	99,0

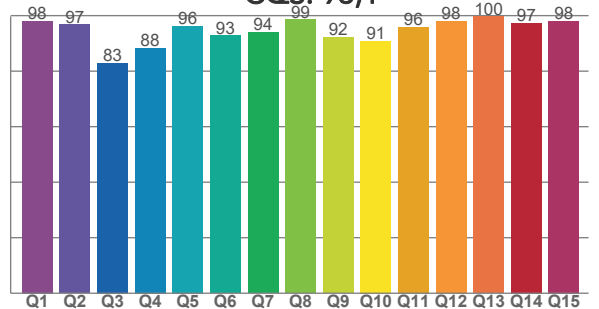
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,4	97,3	93,3	92,7	89,2	91,2	93,2	95,3	93,9	88,9	81,5	90,3	92,3	90,1	85,4	95,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,0	96,8	82,9	88,3	96,2	92,9	94,0	98,6	92,2	90,9	95,8	98,1	99,6	97,3	98,1

CQS: 93,1



COLOR PARAMETERS

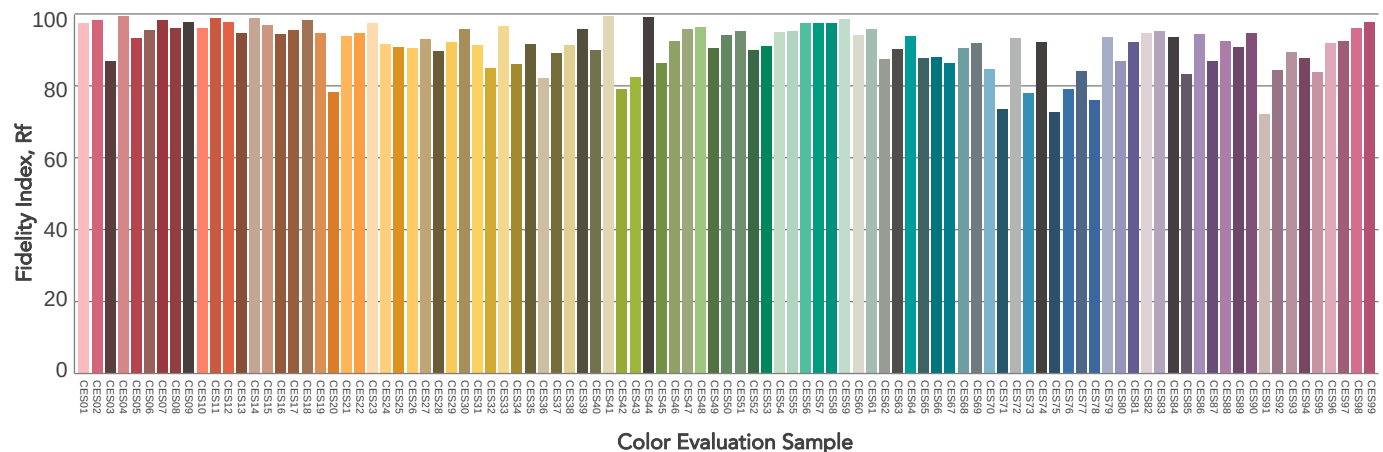
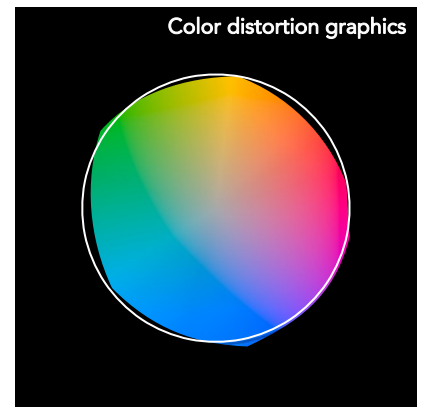
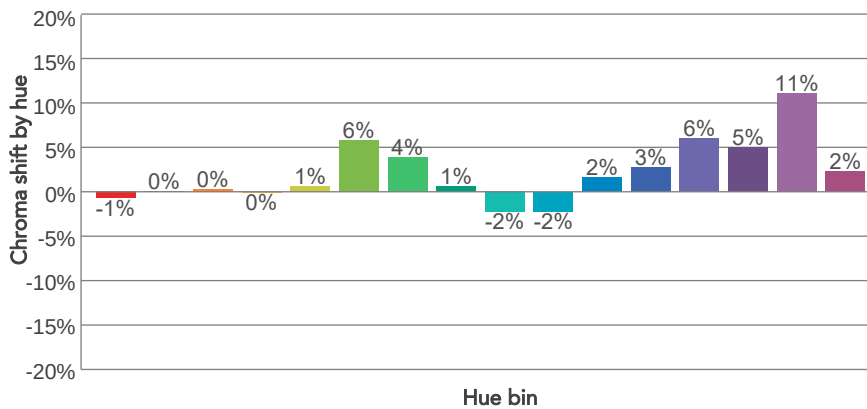
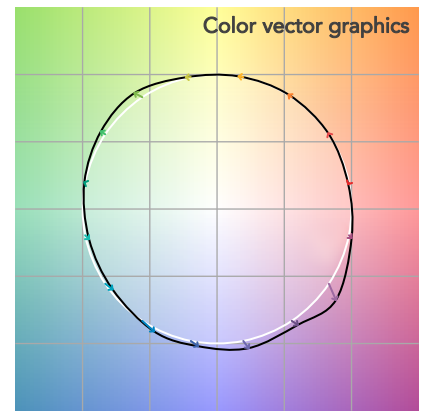
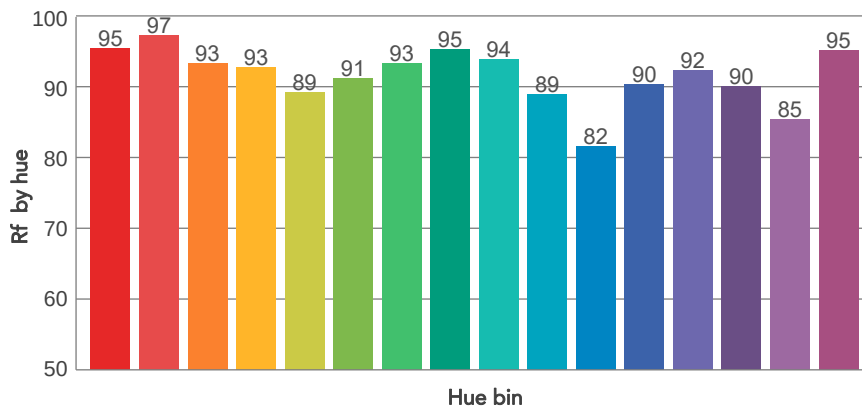
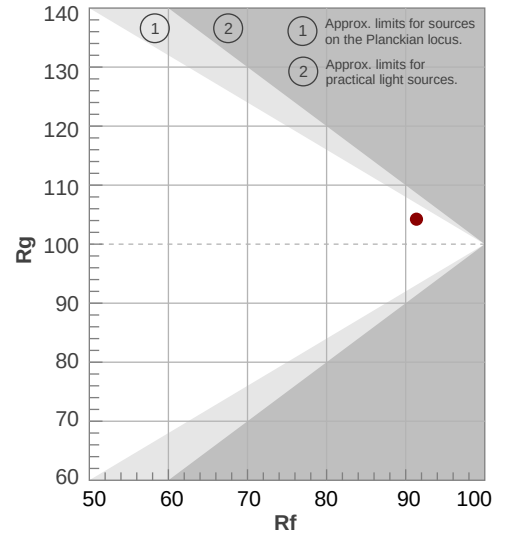
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5617 K	94,2	95,0	91,4	104,2	93,1	93	0,330	0,339	-0,0035

TM30 DETAILS

Rf 91,4
Fidelity index Rf

Rg 104,2
Gammut index

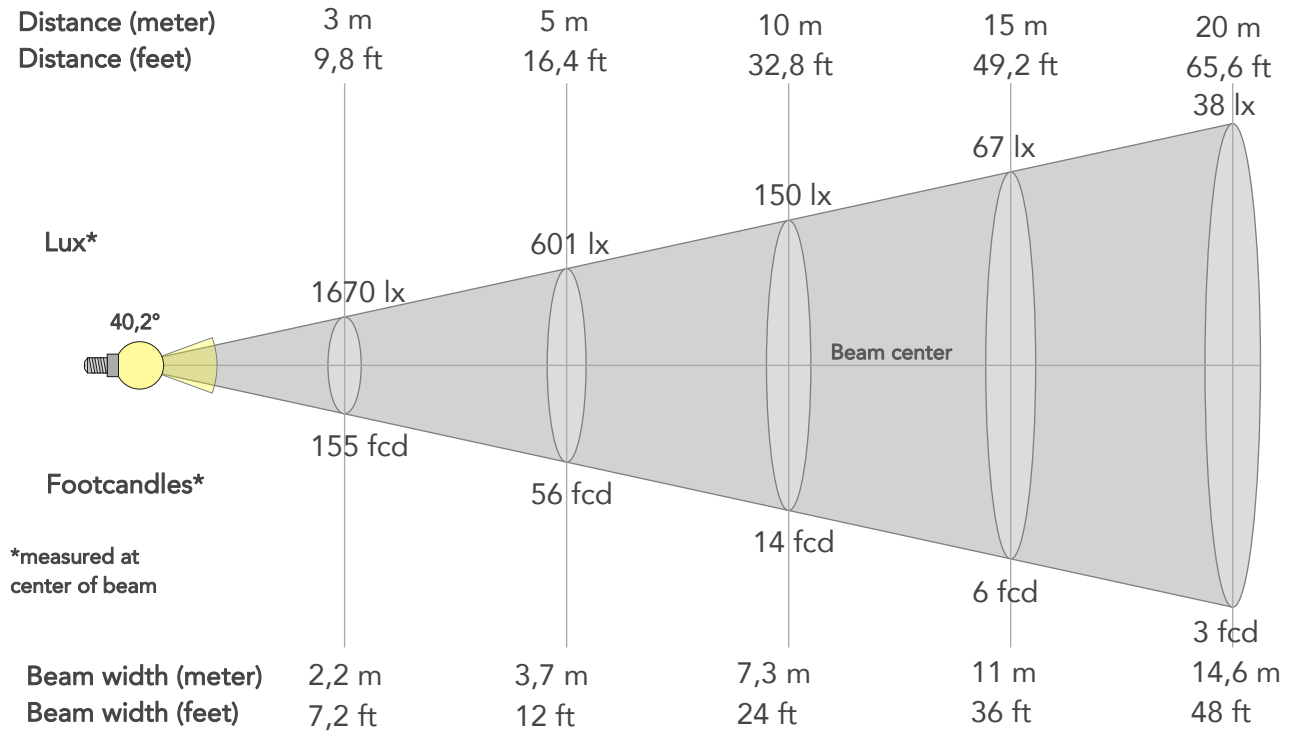
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	97	0%	1%
3	93	0%	3%
4	93	0%	3%
5	89	1%	4%
6	91	6%	3%
7	93	4%	0%
8	95	1%	0%
9	94	-2%	3%
10	89	-2%	6%
11	82	2%	11%
12	90	3%	6%
13	92	6%	3%
14	90	5%	2%
15	85	11%	-7%
16	95	2%	-2%



BEAM DETAILS



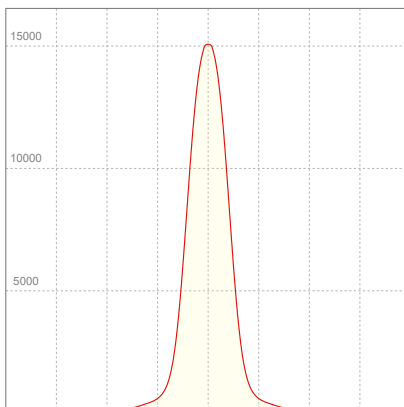
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40,2°	68,4°	111,2°	95,8%	89,1%



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	15034lx	3759lx	1670lx	940lx	601lx	267lx	150lx	67lx	38lx	24lx	17lx	9lx	6lx
Footcand.	1397fcd	349fcd	155fcd	87fcd	56fcd	25fcd	14fcd	6fcd	3fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,7m	1,5m	2,2m	2,9m	3,7m	5,5m	7,3m	11m	14,6m	18,3m	22m	29,3m	36,6m
Beam wid.	2,4ft	4,8ft	7,2ft	9,6ft	12ft	18ft	24ft	36ft	48ft	60,1ft	72,1ft	96,1ft	120,1ft

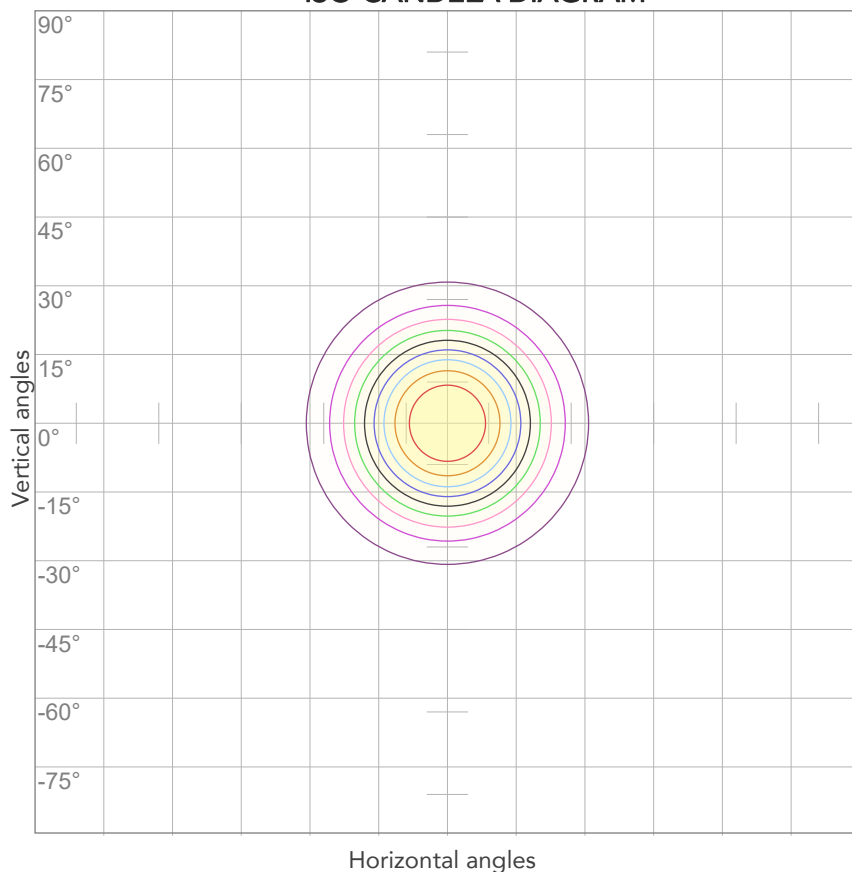
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,880A	192,3W	44lm/W

ISO CANDELA DIAGRAM



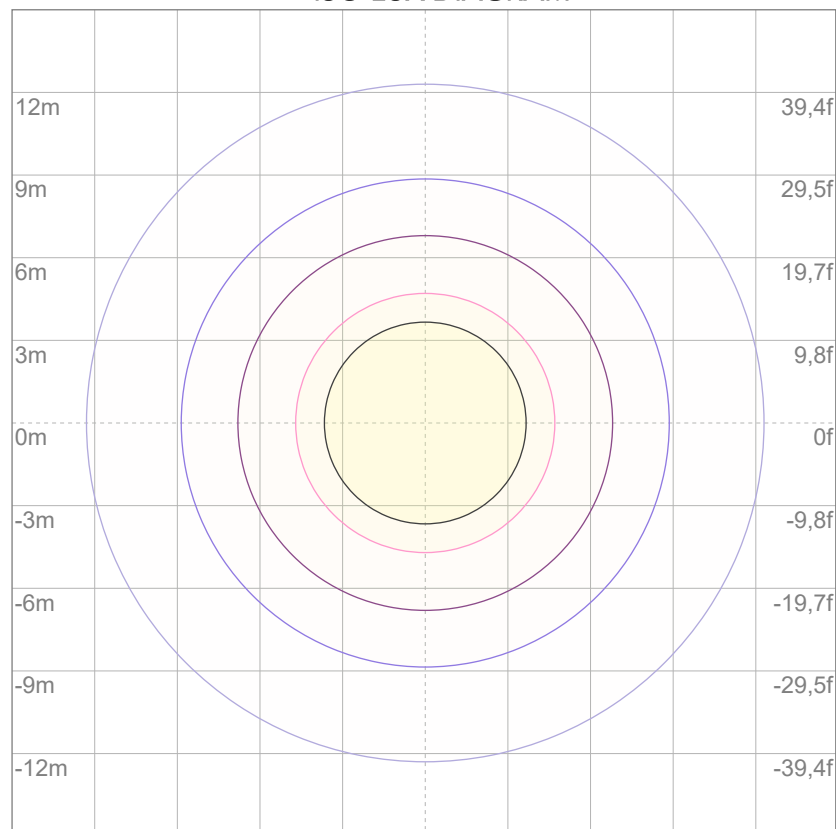
10%	1503 cd
20%	3007 cd
30%	4510 cd
40%	6014 cd
50%	7517 cd
60%	9020 cd
70%	10524 cd
80%	12027 cd

Conditions:

Number of c-planes: 2

Candela at center: 15034 cd

ISO LUX DIAGRAM



3%	4,51 lx
5%	7,52 lx
10%	15,0 lx
30%	45,1 lx
50%	75,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 150 lx

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



Total lumen output:

8136 lm

Peak candela output:

8211 cd

Light quality:

CRI: 94,4

Color temperature:

5617 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

60°

Target:

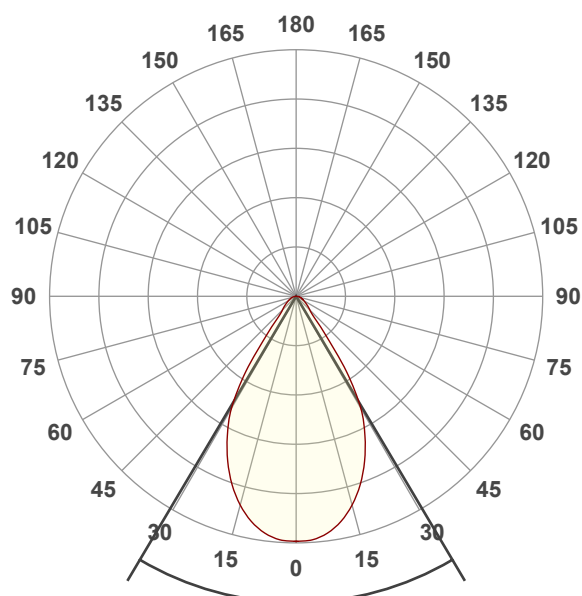
5600K

Operator:

Paolo Carvone

Date and time:

18/10/2022 14:41:34

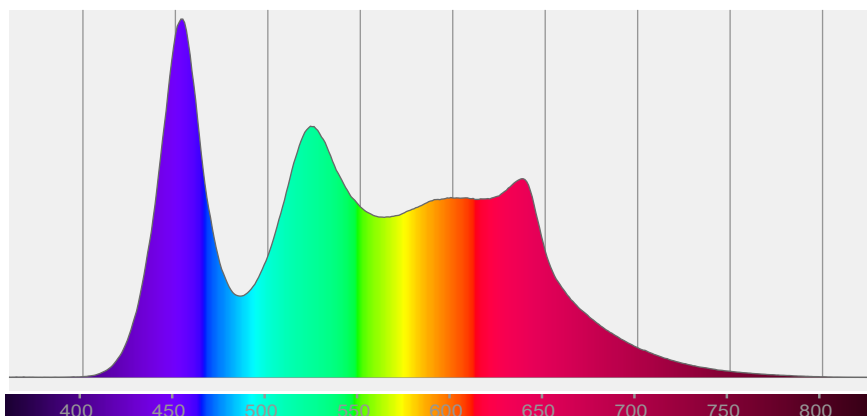


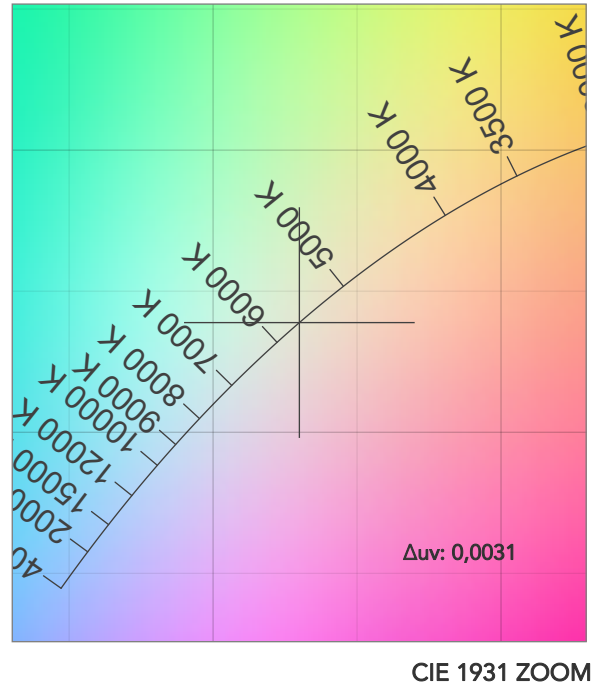
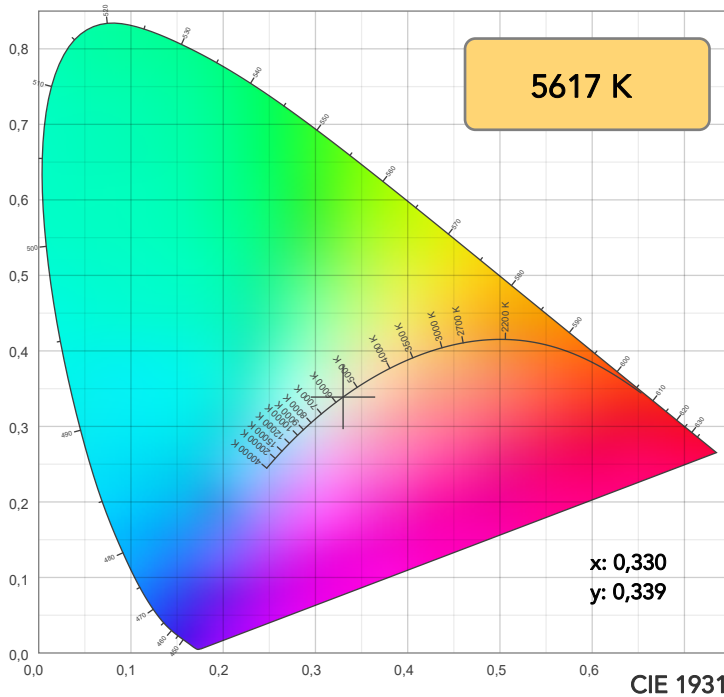
Beam angle 50%: 61,3°

Field angle 10%: 83,4°

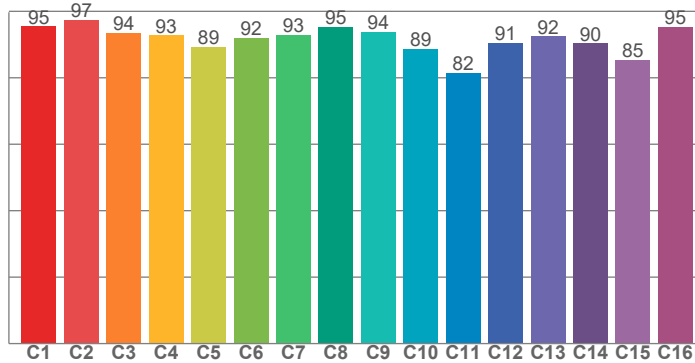
Cut off angle 2.5%: 134,9°

Spectra

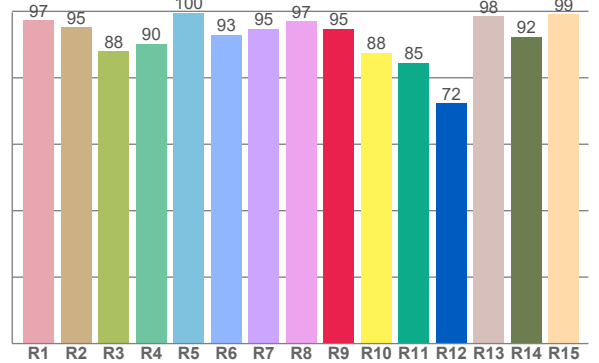




TM30: 91,5



CRI: 94,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,2	95,3	87,9	90,2	99,6	93,0	94,8	97,0	94,8	87,5	84,5	72,3	98,5	92,4	99,2

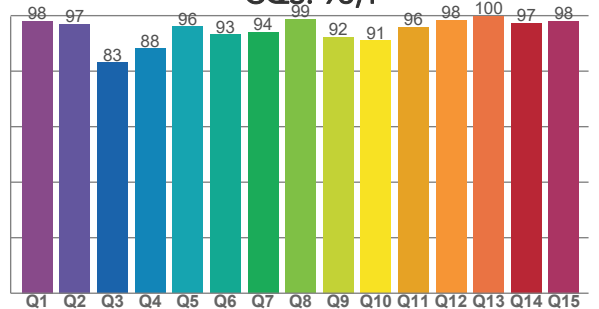
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,5	97,4	93,5	92,7	89,3	91,9	92,9	95,4	93,8	88,6	81,6	90,5	92,4	90,4	85,3	95,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,1	97,0	83,0	88,1	96,1	93,2	94,0	98,7	92,3	91,0	95,9	98,3	99,8	97,3	98,1

CQS: 93,1



COLOR PARAMETERS

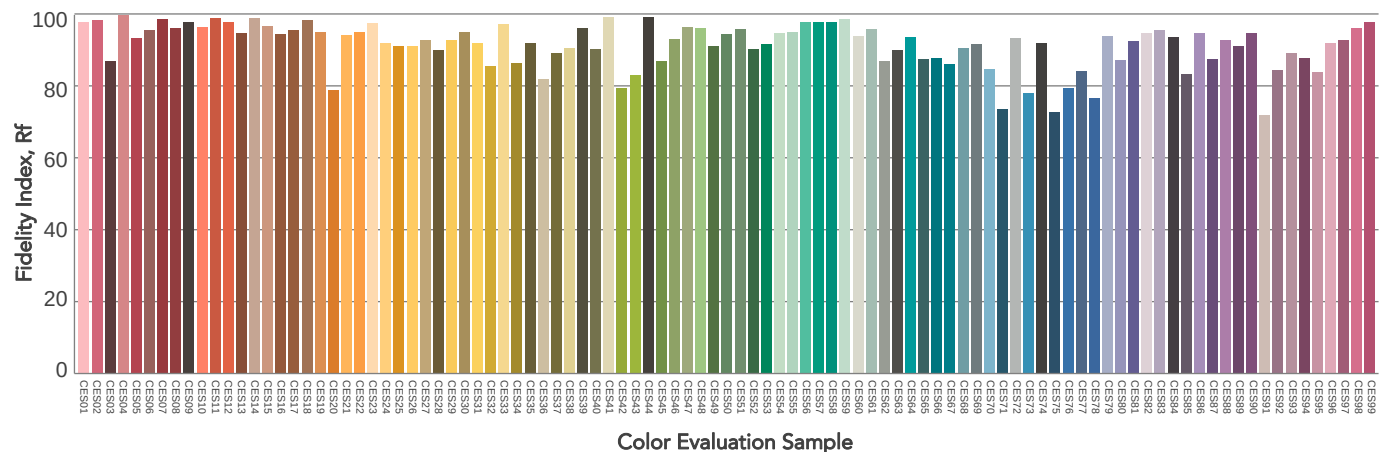
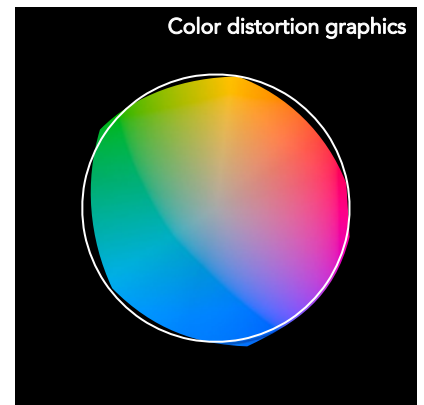
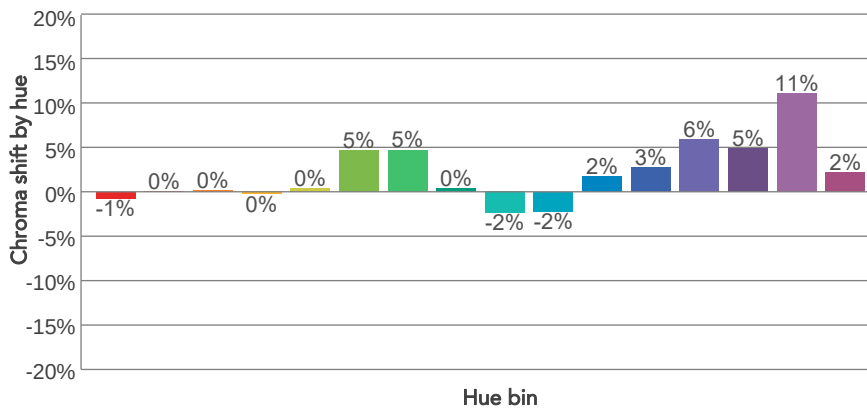
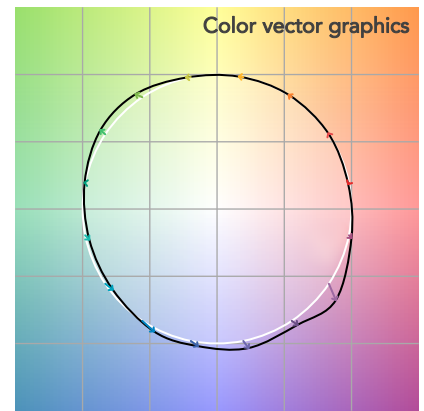
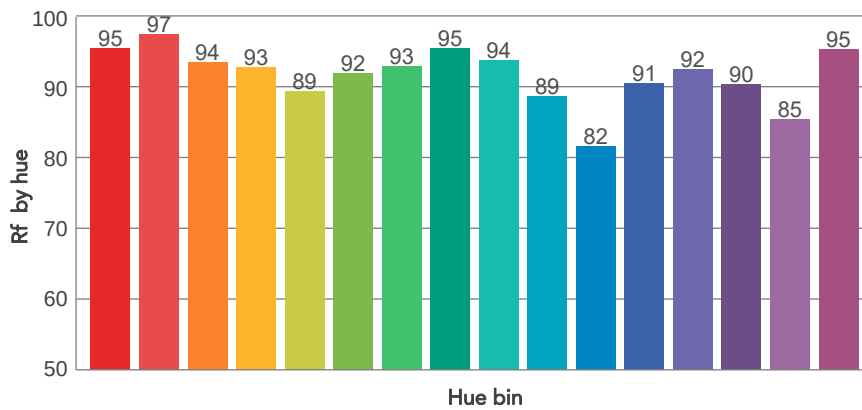
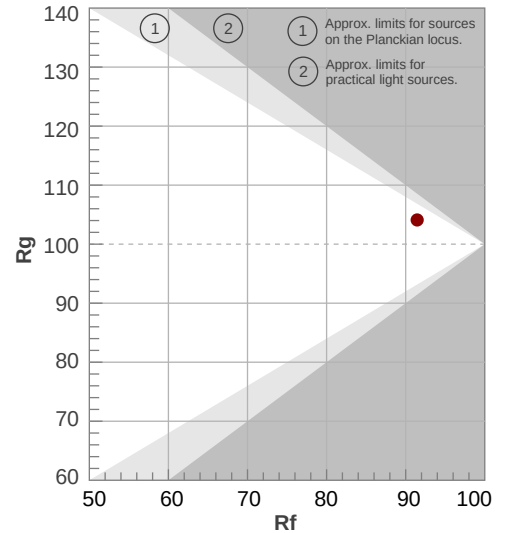
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5617 K	94,4	94,8	91,5	104,1	93,1	93	0,330	0,339	0,0031

TM30 DETAILS

Rf 91,5
Fidelity index Rf

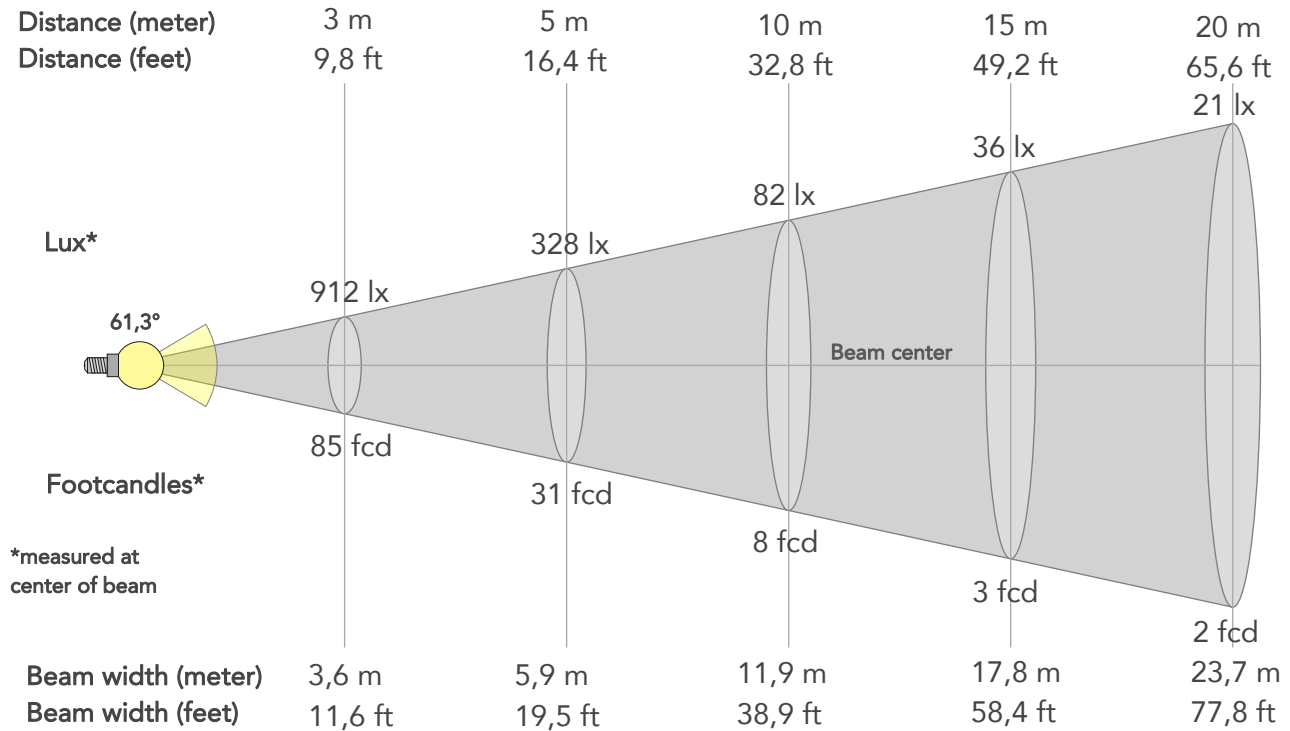
Rg 104,1
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	97	0%	1%
3	94	0%	3%
4	93	0%	3%
5	89	0%	4%
6	92	5%	3%
7	93	5%	-1%
8	95	0%	0%
9	94	-2%	4%
10	89	-2%	7%
11	82	2%	11%
12	91	3%	6%
13	92	6%	3%
14	90	5%	2%
15	85	11%	-7%
16	95	2%	-2%



BEAM DETAILS

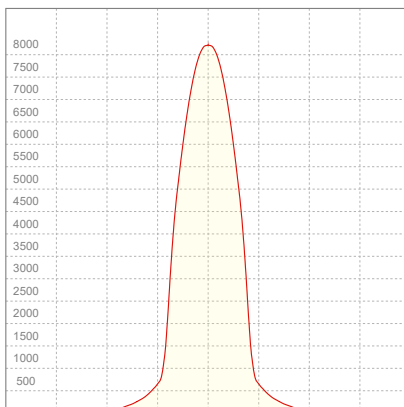
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
61,3°	83,4°	134,9°	95,0%	87,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	8211lx	2053lx	912lx	513lx	328lx	146lx	82lx	36lx	21lx	13lx	9lx	5lx	3lx
Footcand.	763fcd	191fcd	85fcd	48fcd	31fcd	14fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,7m	5,9m	8,9m	11,9m	17,8m	23,7m	29,7m	35,6m	47,4m	59,3m
Beam wid.	3,9ft	7,8ft	11,6ft	15,5ft	19,5ft	29,2ft	38,9ft	58,4ft	77,8ft	97,3ft	116,7ft	155,6ft	194,5ft

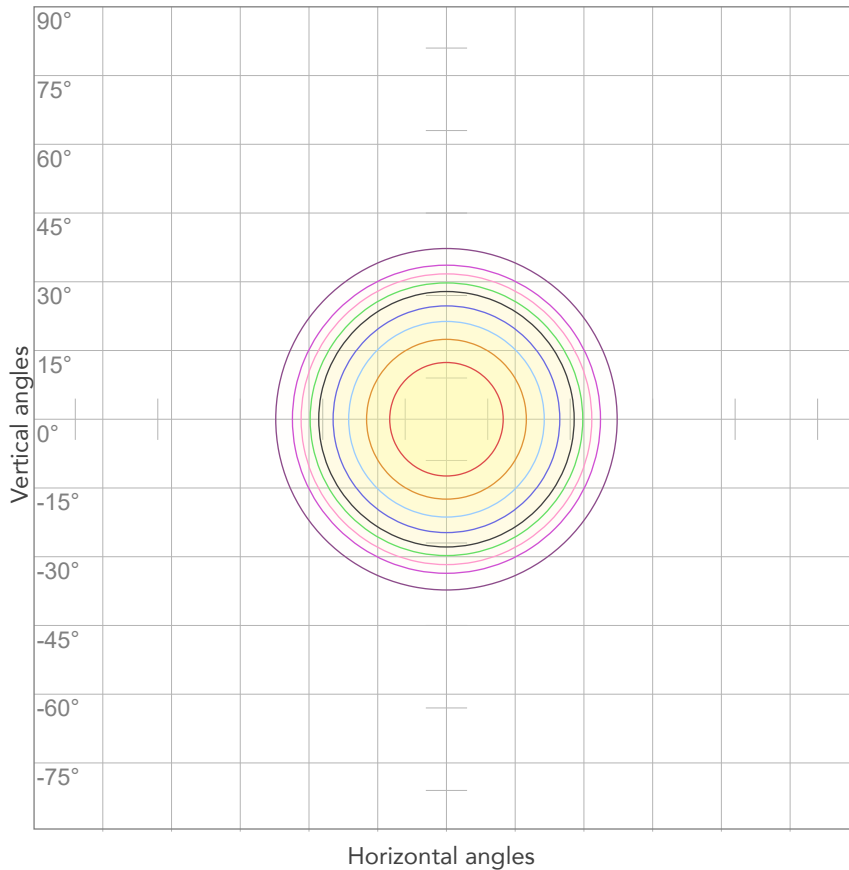
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,879A	191,7W	42lm/W

ISO CANDELA DIAGRAM



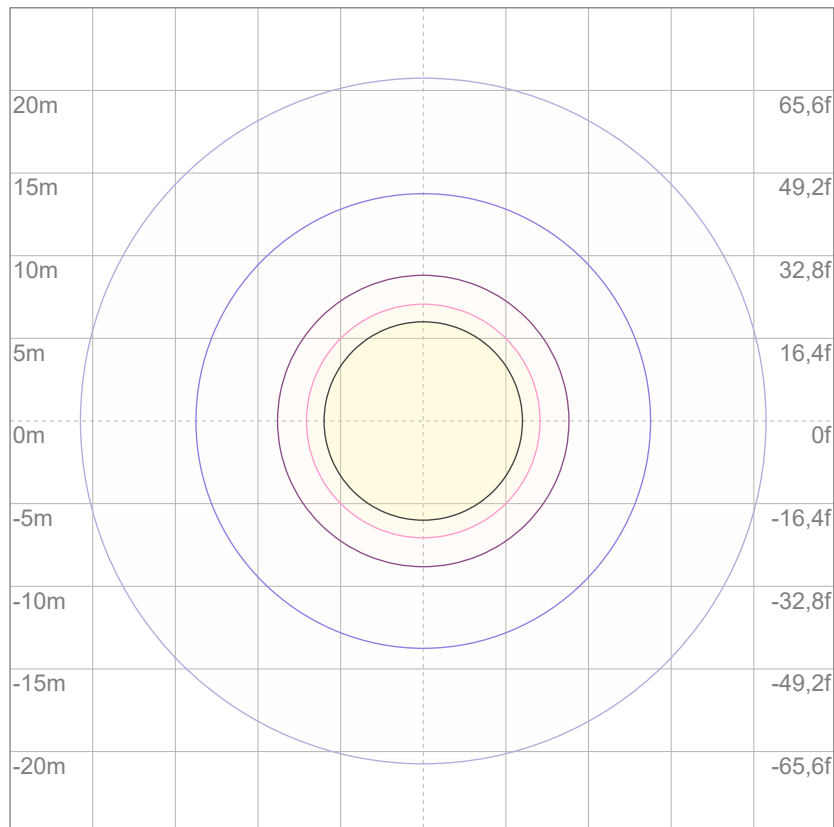
10%	821 cd
20%	1642 cd
30%	2463 cd
40%	3284 cd
50%	4105 cd
60%	4926 cd
70%	5748 cd
80%	6569 cd

Conditions:

Number of c-planes: 2

Candela at center: 8211 cd

ISO LUX DIAGRAM



3%	2,46 lx
5%	4,11 lx
10%	8,21 lx
30%	24,6 lx
50%	41,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 82,1 lx

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



Total lumen output:

7770 lm

Peak candela output:

33988 cd

Light quality:

CRI: 94,6

Color temperature:

6004 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

20°

Target:

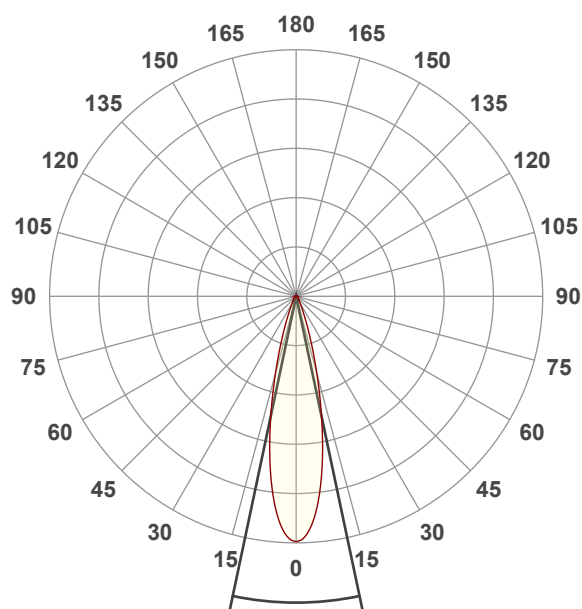
6000K

Operator:

Paolo Carvone

Date and time:

18/10/2022 13:27:09

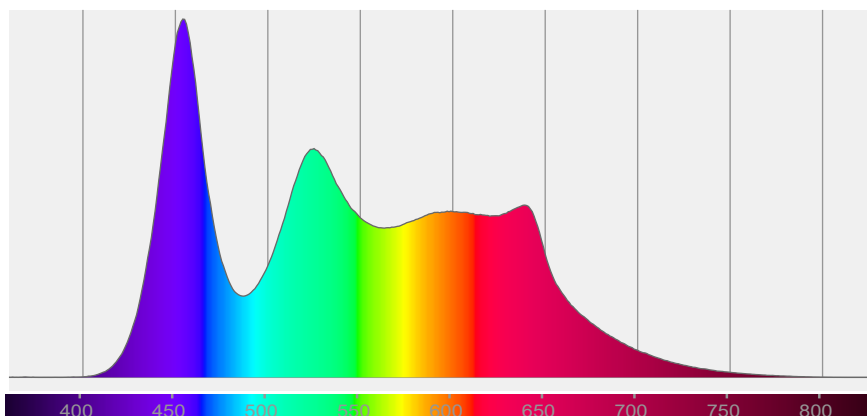


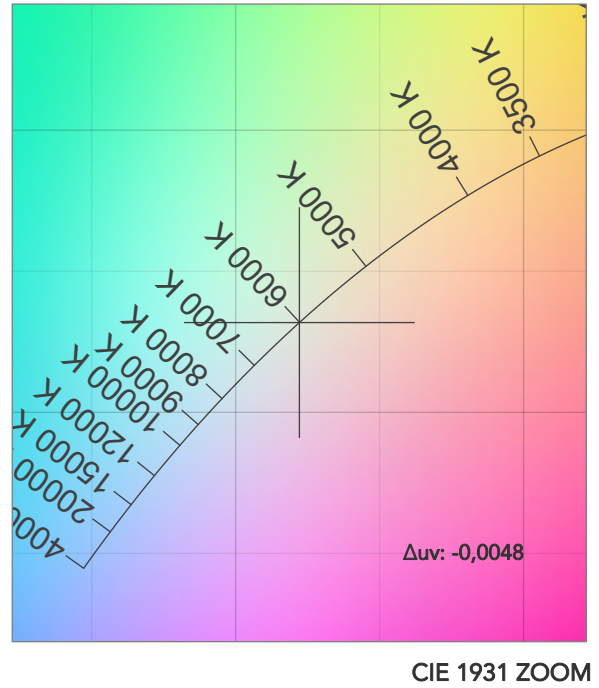
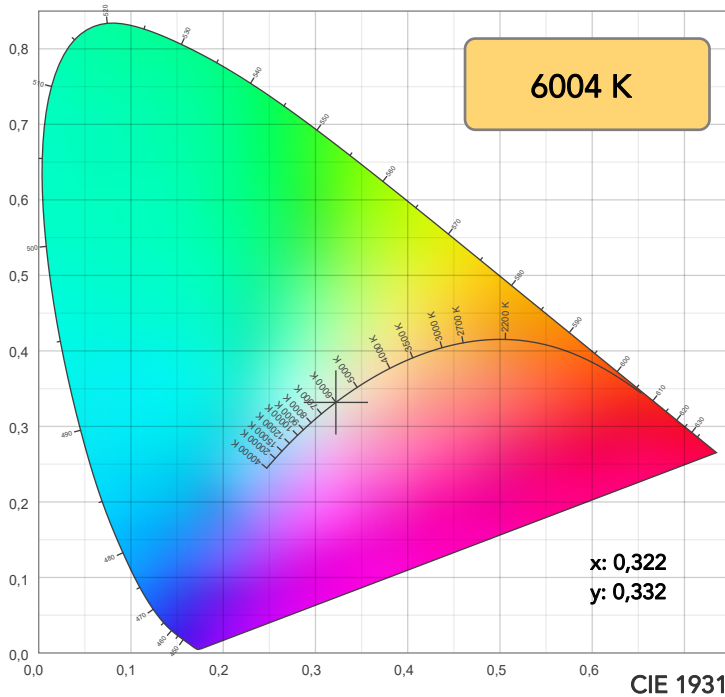
Beam angle 50%: 23,9°

Field angle 10%: 43,9°

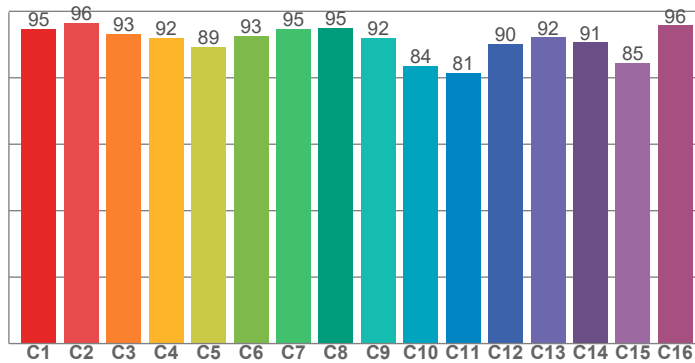
Cut off angle 2.5%: 65°

Spectra

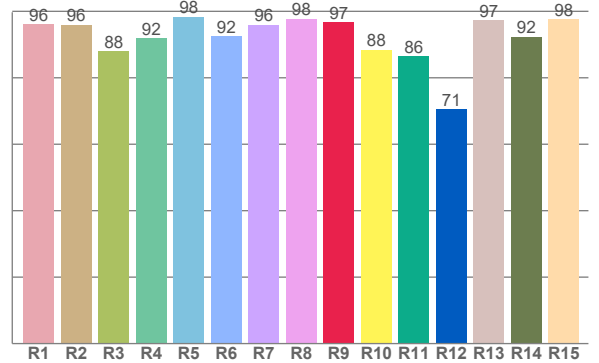




TM30: 90,9



CRI: 94,6 (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
96,2	95,9	88,0	92,0	98,4	92,4	95,9	97,8	96,6	88,4	86,4	70,6	97,4	92,3	97,5

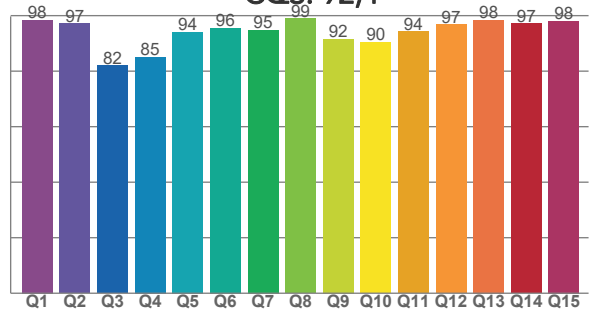
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,8	96,5	93,2	92,1	89,3	92,5	94,8	95,0	92,1	83,5	81,4	90,2	92,2	90,6	84,5	95,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,3	97,1	82,0	85,1	94,1	95,5	94,8	98,9	91,6	90,4	94,2	96,7	98,4	97,1	98,1

CQS: 92,4



COLOR PARAMETERS

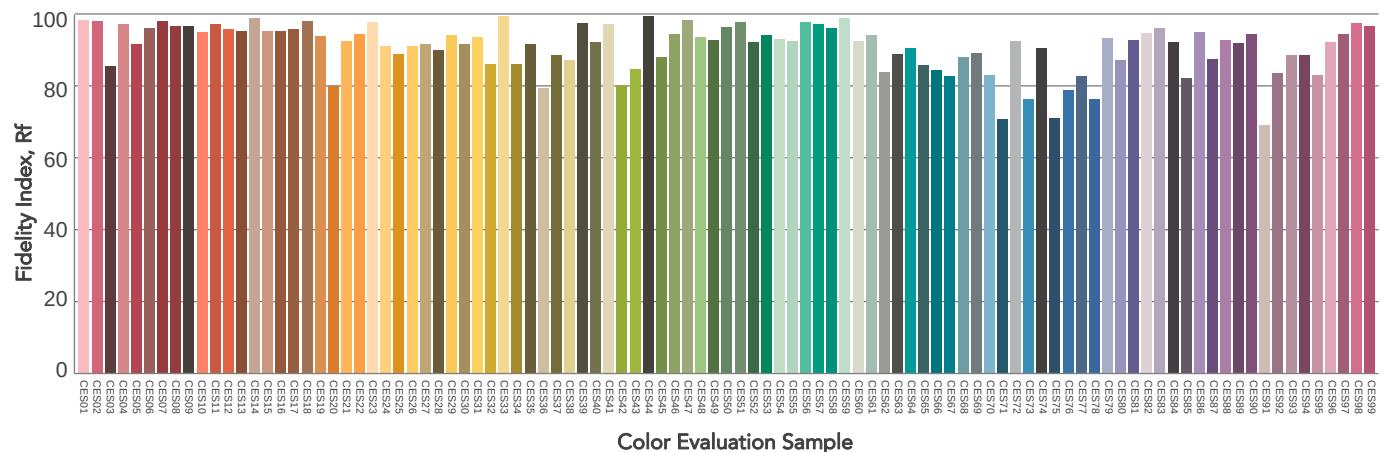
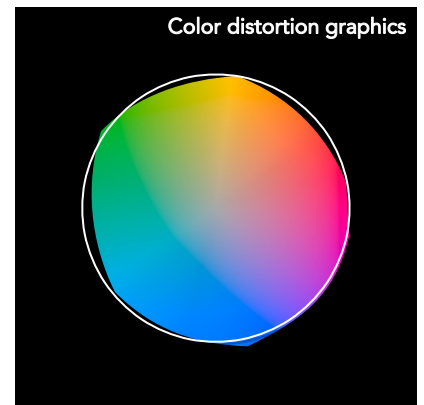
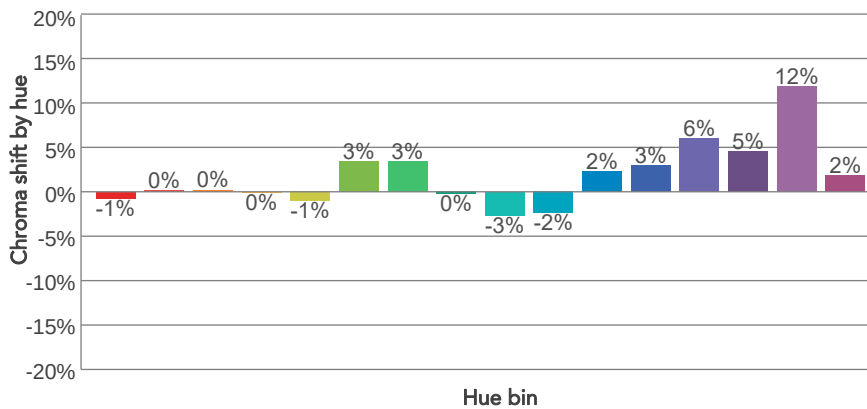
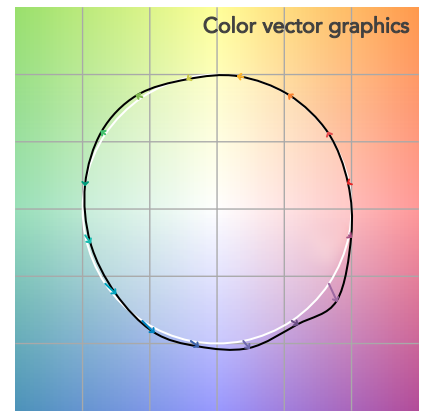
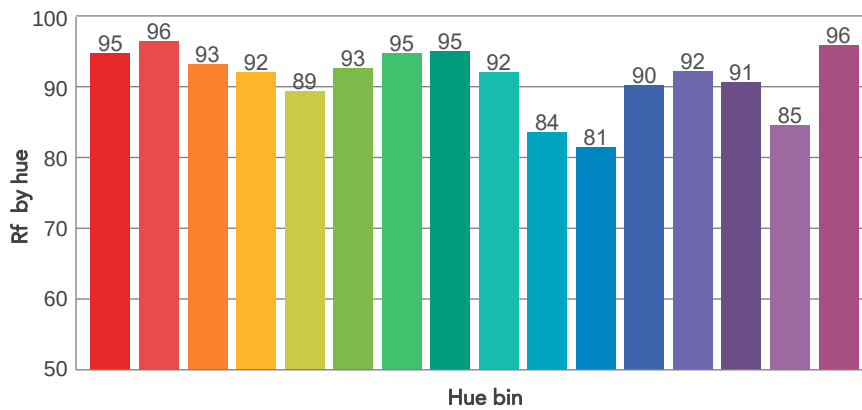
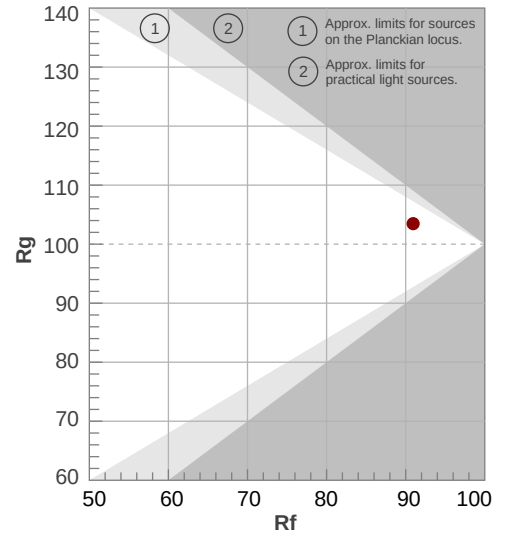
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6004 K	94,6	96,6	90,9	103,5	92,4	94	0,322	0,332	-0,0048

TM30 DETAILS

Rf 90,9
Fidelity index Rf

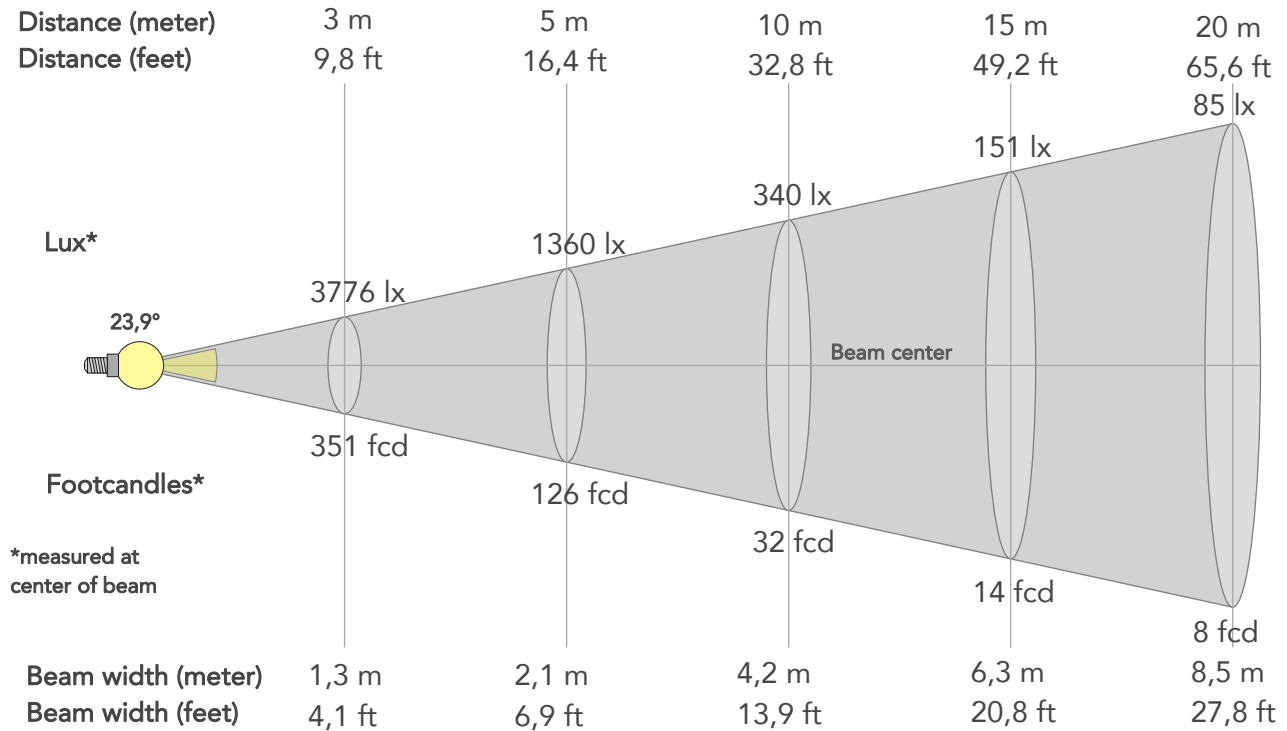
Rg 103,5
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	0%
2	96	0%	1%
3	93	0%	3%
4	92	0%	4%
5	89	-1%	3%
6	93	3%	3%
7	95	3%	0%
8	95	0%	2%
9	92	-3%	6%
10	84	-2%	10%
11	81	2%	12%
12	90	3%	6%
13	92	6%	3%
14	91	5%	2%
15	85	12%	-7%
16	96	2%	-1%



BEAM DETAILS

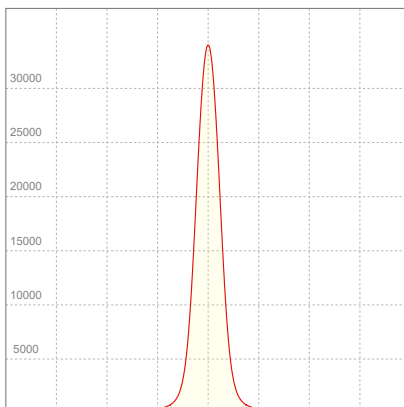
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,9°	43,9°	65°	98,7%	94,3%



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	33988lx	8497lx	3776lx	2124lx	1360lx	604lx	340lx	151lx	85lx	54lx	38lx	21lx	14lx
Footcand.	3158fcd	789fcd	351fcd	197fcd	126fcd	56fcd	32fcd	14fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	0,4m	0,8m	1,3m	1,7m	2,1m	3,2m	4,2m	6,3m	8,5m	10,6m	12,7m	16,9m	21,2m
Beam wid.	1,4ft	2,8ft	4,1ft	5,5ft	6,9ft	10,4ft	13,9ft	20,8ft	27,8ft	34,7ft	41,6ft	55,5ft	69,4ft

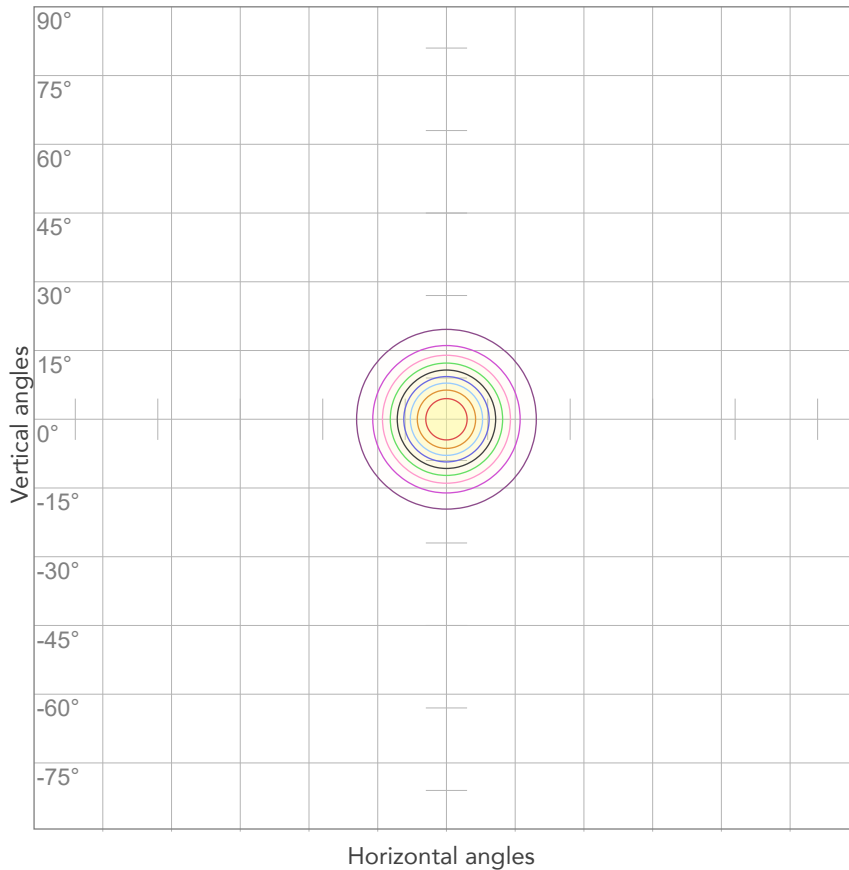
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,861A	186,4W	42lm/W

ISO CANDELA DIAGRAM



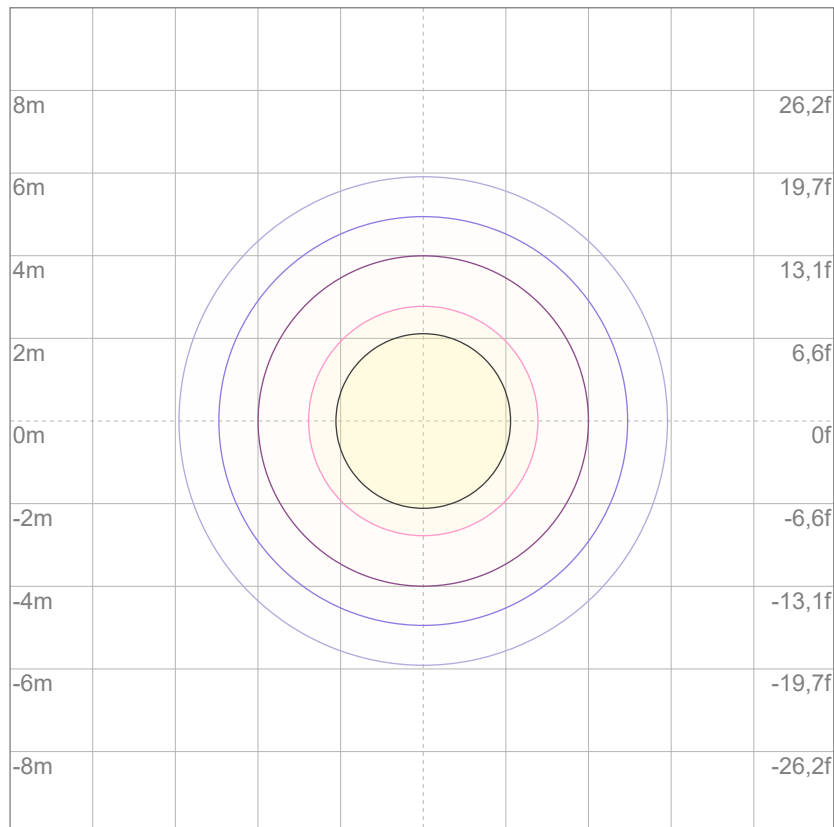
10%	3399 cd
20%	6798 cd
30%	10196 cd
40%	13595 cd
50%	16994 cd
60%	20393 cd
70%	23791 cd
80%	27190 cd

Conditions:

Number of c-planes: 2

Candela at center: 33988 cd

ISO LUX DIAGRAM



3%	10,2 lx
5%	17,0 lx
10%	34,0 lx
30%	102 lx
50%	170 lx

Conditions:

Number of c-planes: 2

Lux at center: 340 lx

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



Total lumen output:

8111 lm

Peak candela output:

14470 cd

Light quality:

CRI: 94,5

Color temperature:

6004 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

40°

Target:

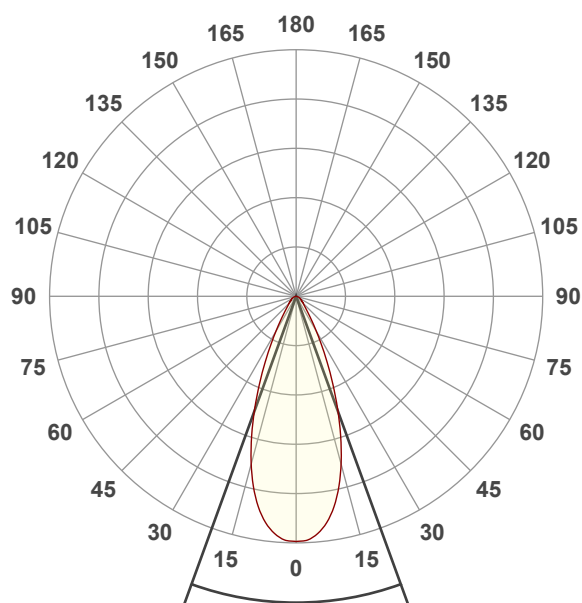
6000K

Operator:

Paolo Carvone

Date and time:

18/10/2022 14:46:40

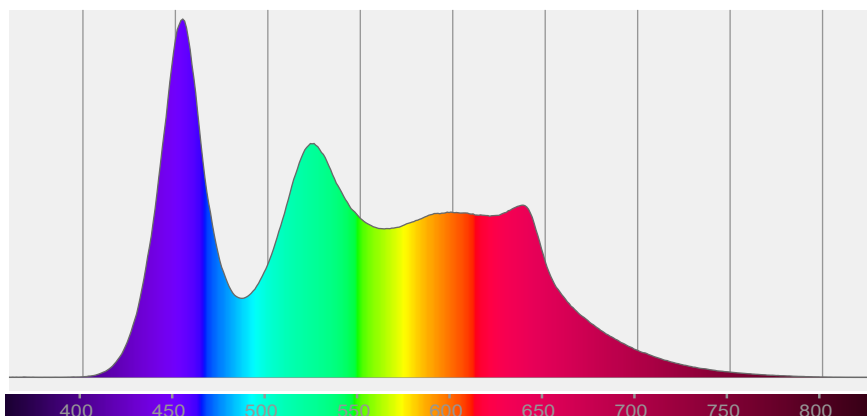


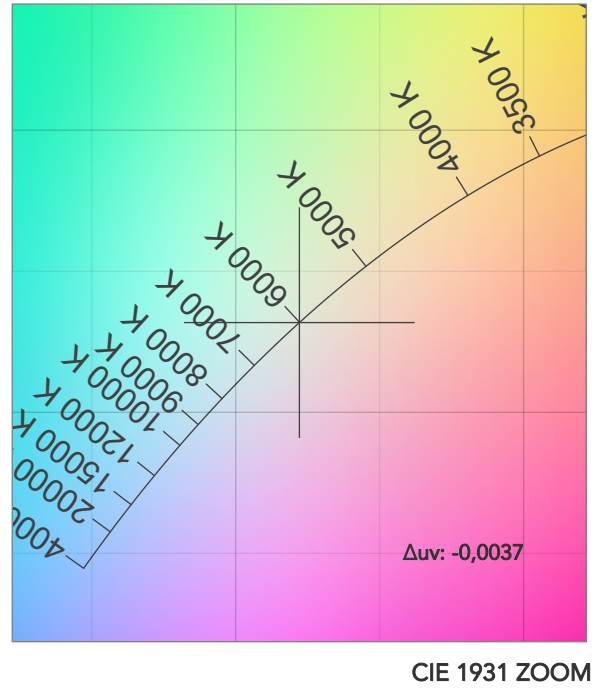
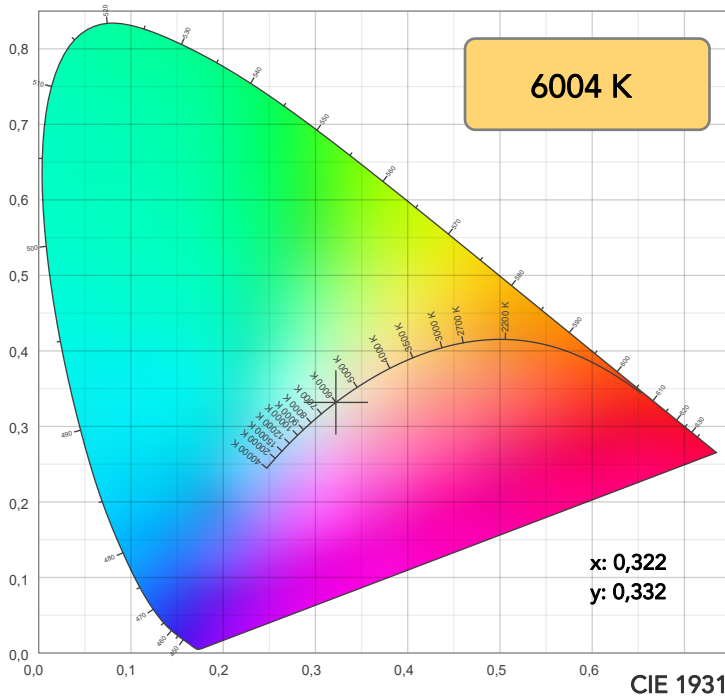
Beam angle 50%: 39,9°

Field angle 10%: 68,5°

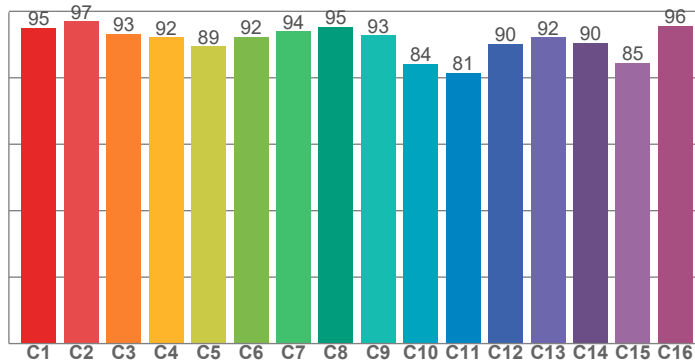
Cut off angle 2.5%: 110,3°

Spectra

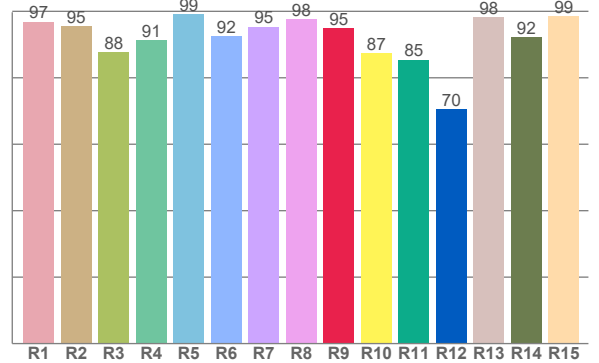




TM30: 91,1



CRI: 94,5 (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
96,9	95,4	87,8	91,2	99,1	92,4	95,4	97,5	94,9	87,4	85,4	70,4	98,1	92,3	98,6

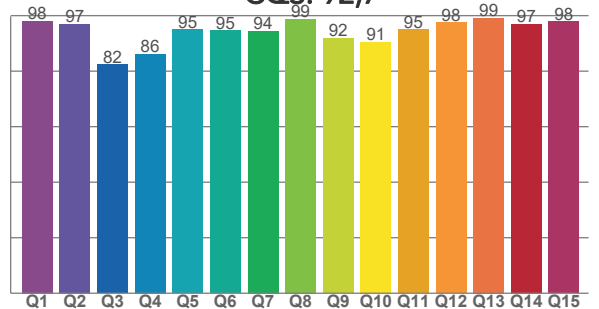
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,0	97,0	93,3	92,2	89,5	92,3	94,0	95,3	92,7	84,2	81,5	90,1	92,2	90,5	84,5	95,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,1	97,0	82,3	86,1	94,9	94,6	94,5	98,7	91,8	90,6	95,0	97,5	99,2	97,0	97,9

CQS: 92,7



COLOR PARAMETERS

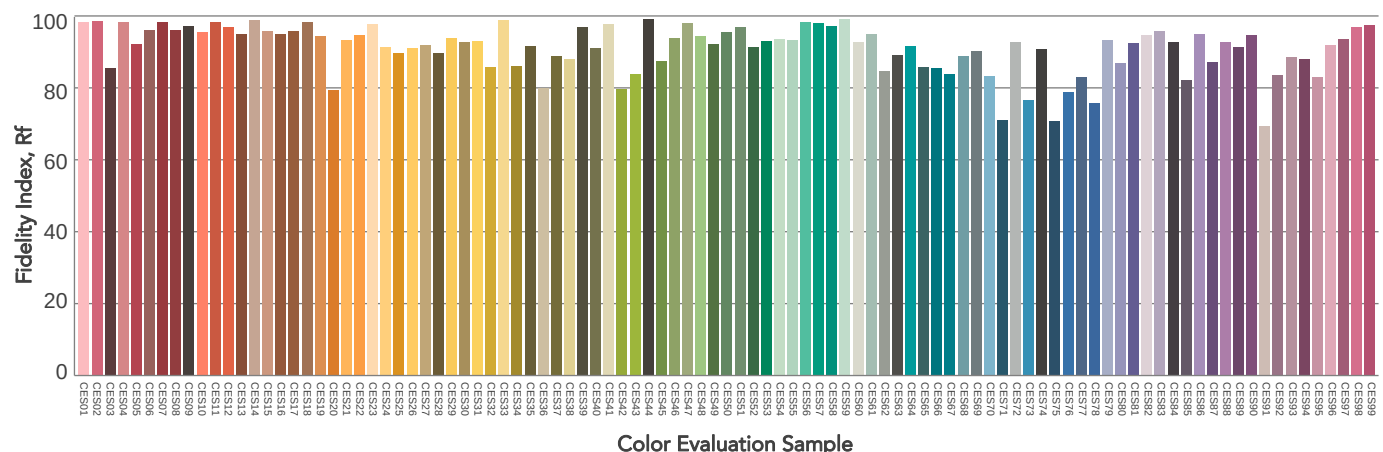
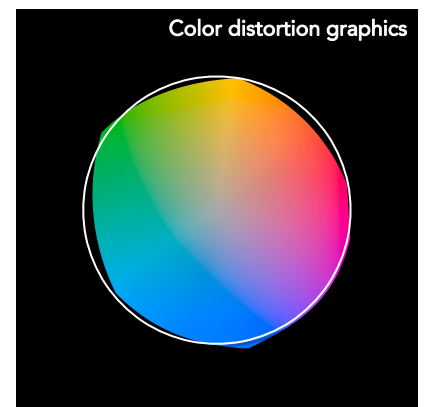
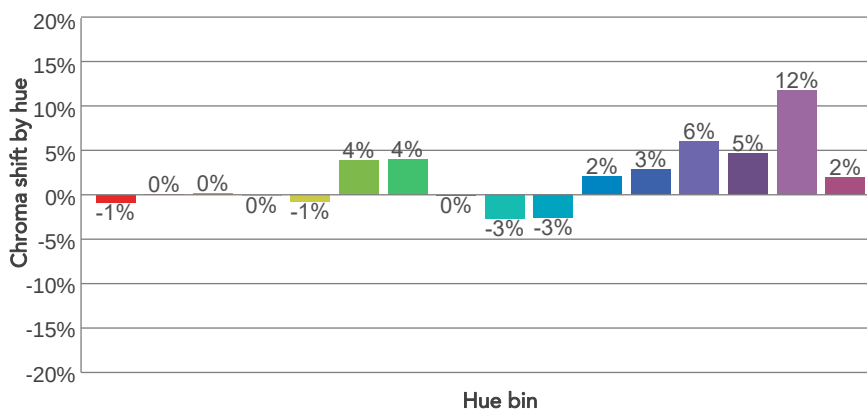
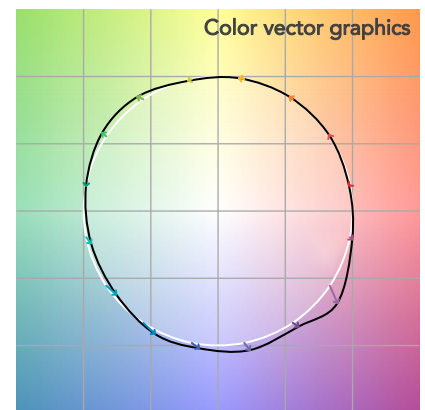
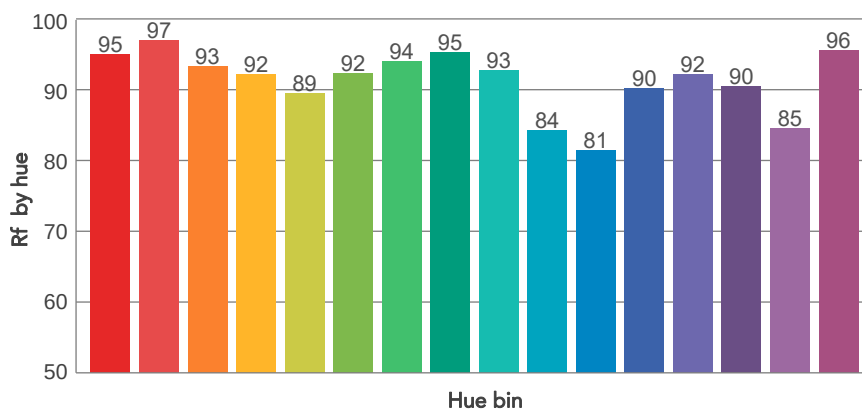
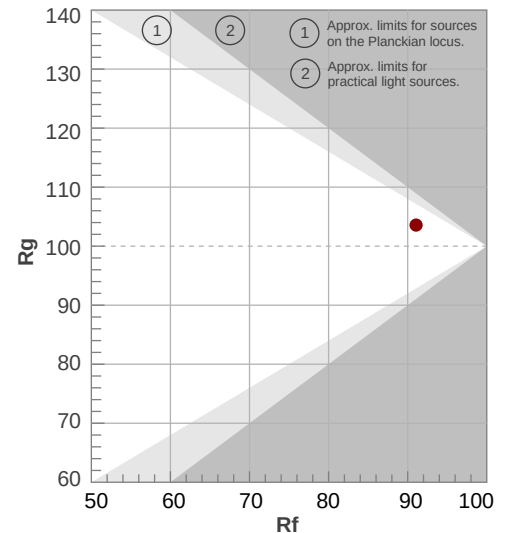
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6004 K	94,5	94,9	91,1	103,6	92,7	94	0,322	0,332	-0,0037

TM30 DETAILS

Rf 91,1
Fidelity index Rf

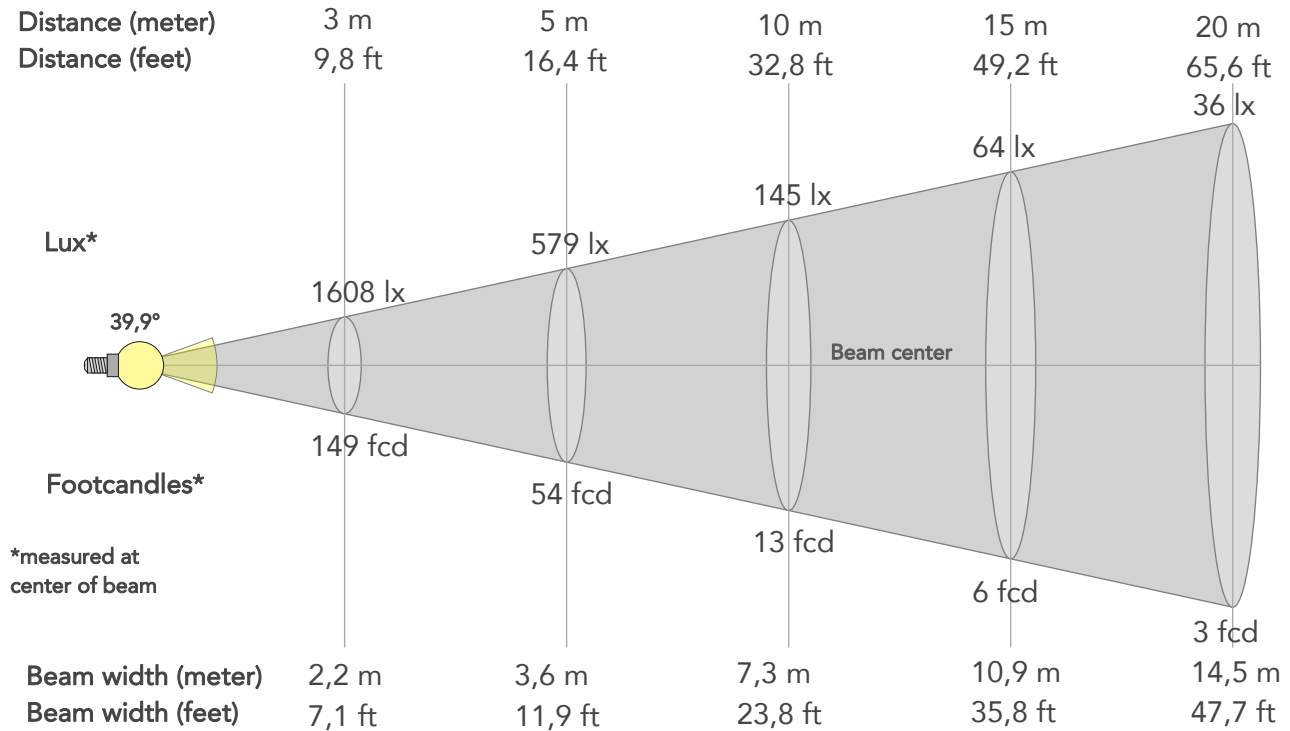
Rg 103,6
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	97	0%	1%
3	93	0%	3%
4	92	0%	4%
5	89	-1%	3%
6	92	4%	3%
7	94	4%	0%
8	95	0%	1%
9	93	-3%	5%
10	84	-3%	10%
11	81	2%	12%
12	90	3%	6%
13	92	6%	3%
14	90	5%	2%
15	85	12%	-8%
16	96	2%	-1%



BEAM DETAILS

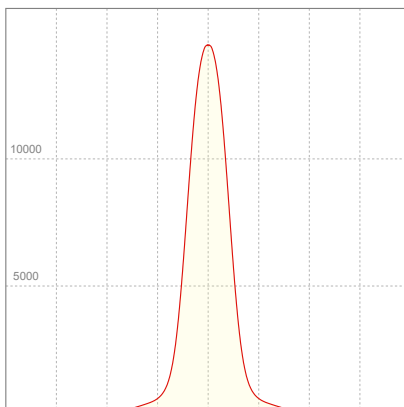
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,9°	68,5°	110,3°	95,8%	89,3%



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	14470lx	3617lx	1608lx	904lx	579lx	257lx	145lx	64lx	36lx	23lx	16lx	9lx	6lx
Footcand.	1344fcd	336fcd	149fcd	84fcd	54fcd	24fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	1fcd
Beam wid.	0,7m	1,5m	2,2m	2,9m	3,6m	5,5m	7,3m	10,9m	14,5m	18,2m	21,8m	29,1m	36,3m
Beam wid.	2,4ft	4,8ft	7,1ft	9,5ft	11,9ft	17,9ft	23,8ft	35,8ft	47,7ft	59,6ft	71,5ft	95,4ft	119,2ft

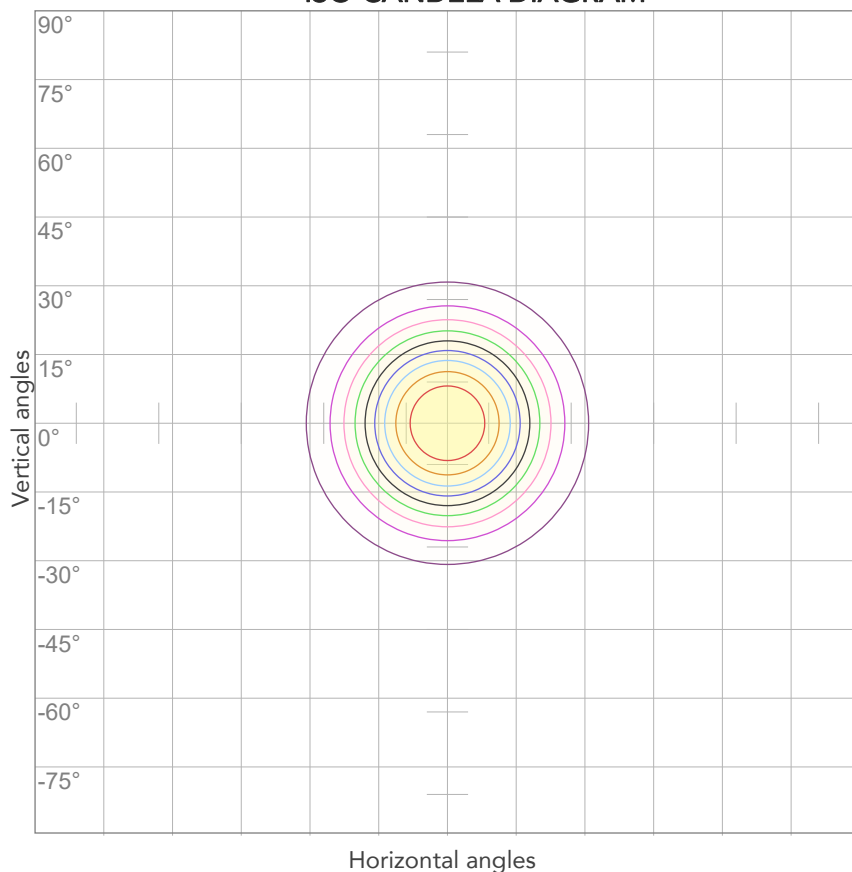
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,860A	187,9W	43lm/W

ISO CANDELA DIAGRAM



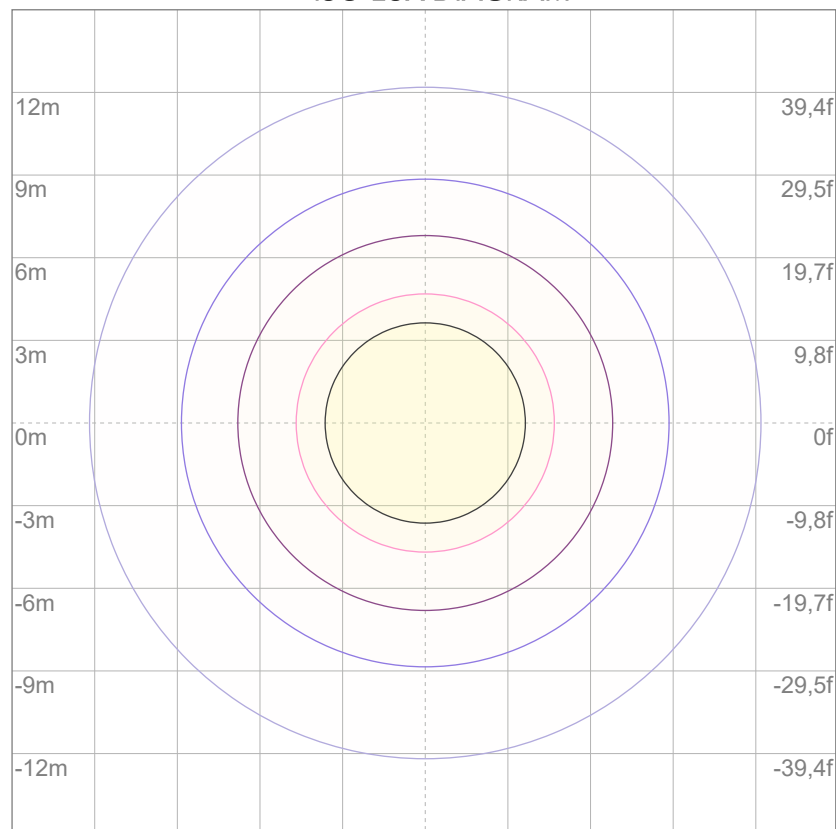
10%	1447 cd
20%	2894 cd
30%	4341 cd
40%	5788 cd
50%	7235 cd
60%	8682 cd
70%	10129 cd
80%	11576 cd

Conditions:

Number of c-planes: 2

Candela at center: 14470 cd

ISO LUX DIAGRAM



3%	4,34 lx
5%	7,23 lx
10%	14,5 lx
30%	43,4 lx
50%	72,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 145 lx

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



Total lumen output:

7922 lm

Peak candela output:

7984 cd

Light quality:

CRI: 94,4

Color temperature:

6004 K

PRODUCT NAME:

ECLPENDANT FC

MEASURAMENT CONDITIONS:

Beam angle:

60°

Target:

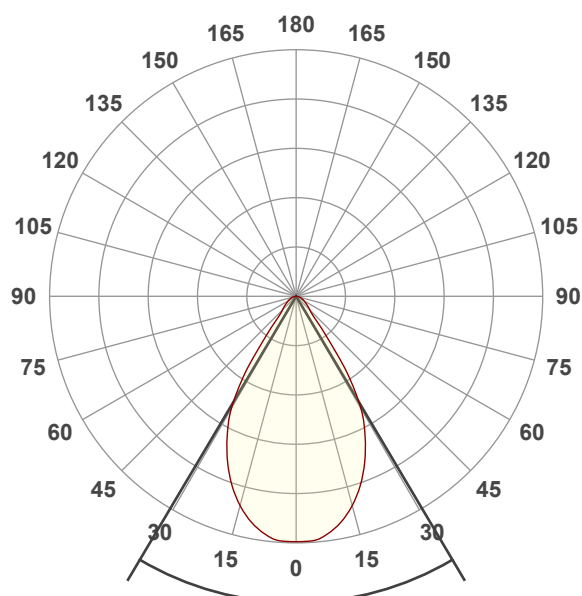
6000K

Operator:

Paolo Carvone

Date and time:

18/10/2022 14:43:35

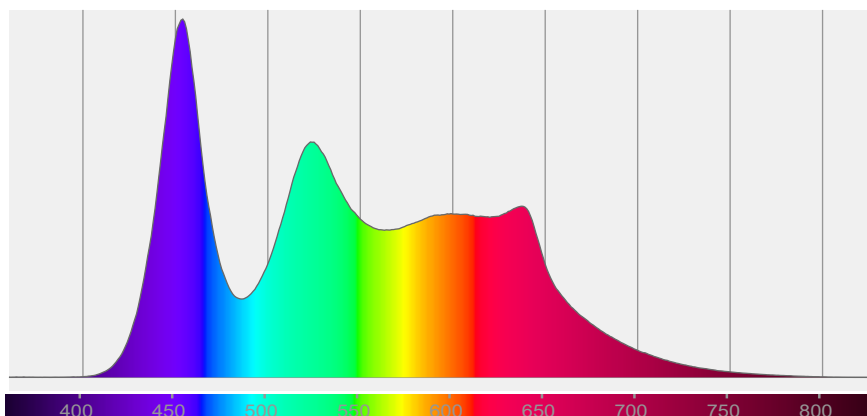


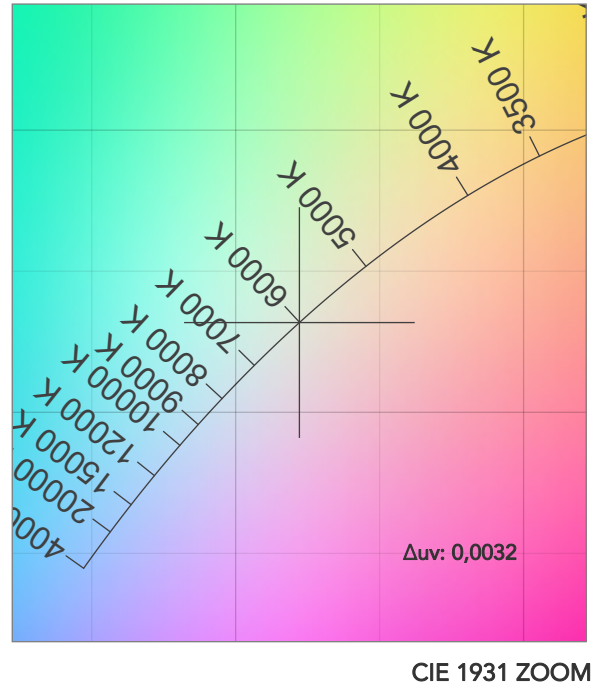
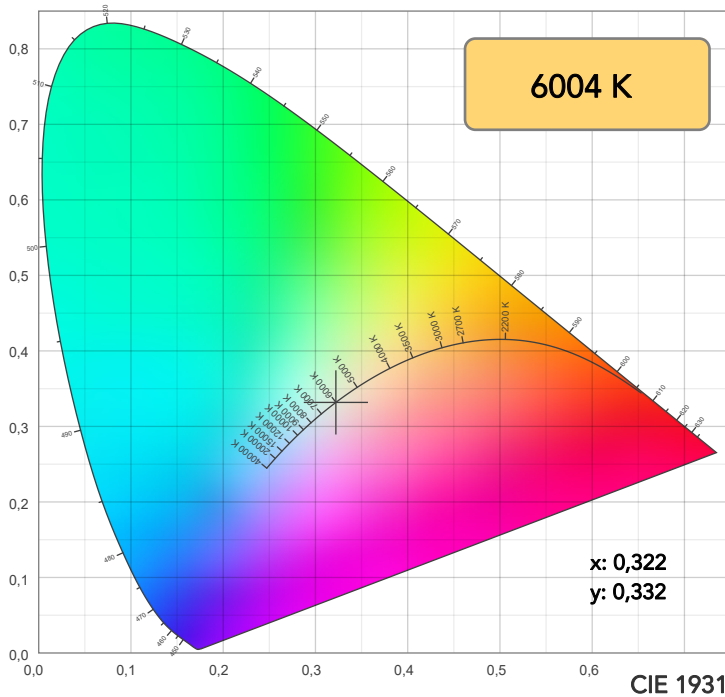
Beam angle 50%: 61,4°

Field angle 10%: 83,6°

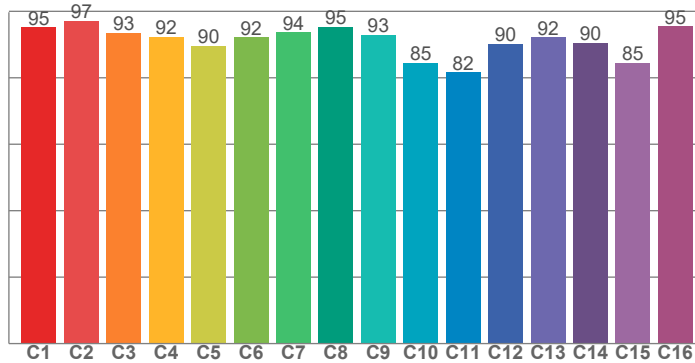
Cut off angle 2.5%: 134,7°

Spectra

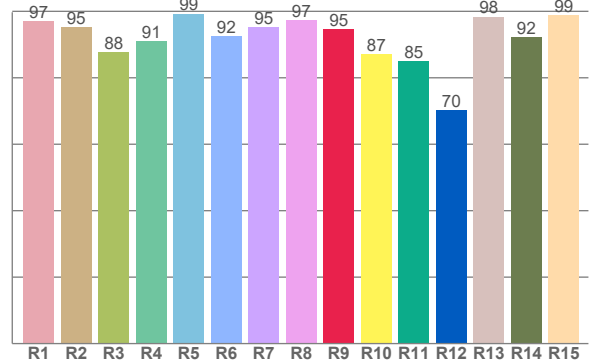




TM30: 91,1



CRI: 94,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,0	95,3	87,7	90,9	99,3	92,5	95,2	97,4	94,6	87,1	85,0	70,3	98,4	92,3	98,7

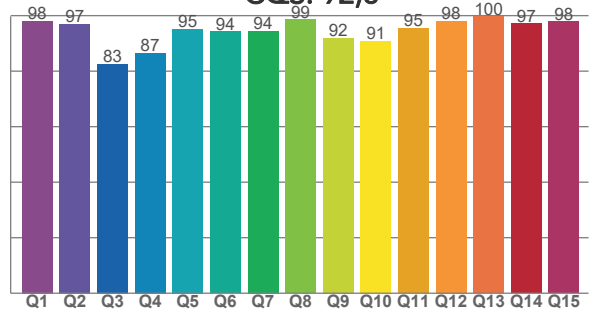
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,1	97,2	93,5	92,3	89,6	92,2	93,7	95,4	92,9	84,5	81,6	90,2	92,2	90,4	84,5	95,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,1	97,0	82,5	86,6	95,3	94,3	94,5	98,6	91,9	90,7	95,4	98,0	99,6	97,1	97,9

CQS: 92,8



COLOR PARAMETERS

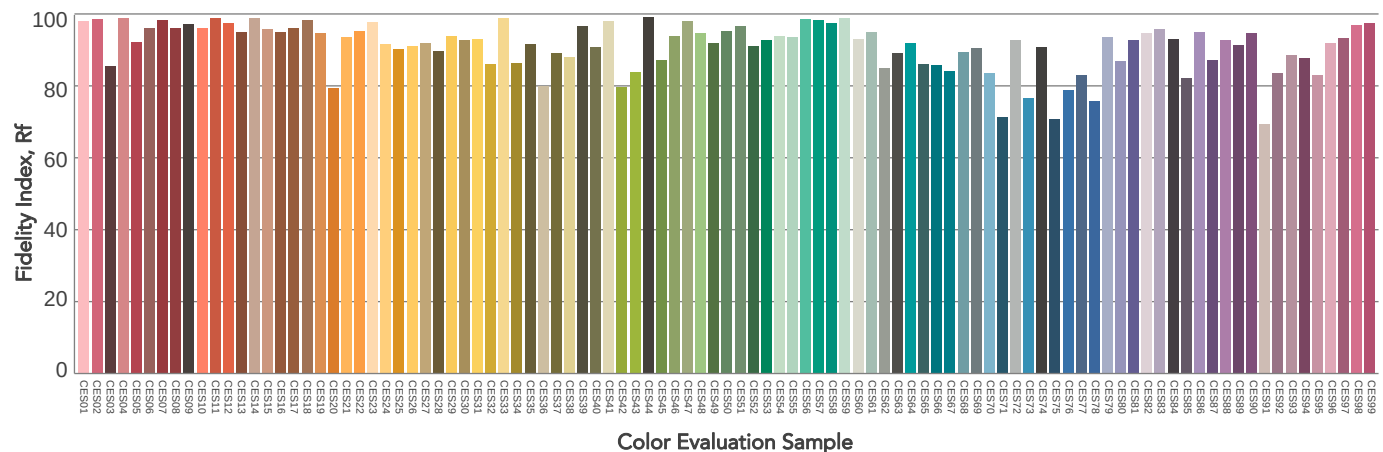
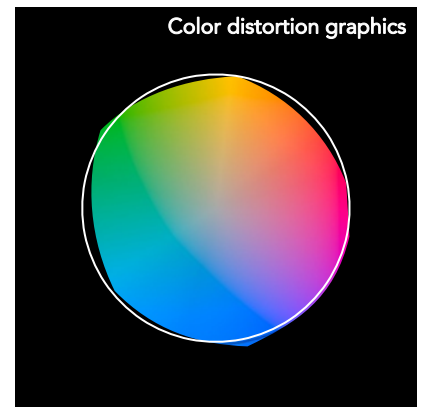
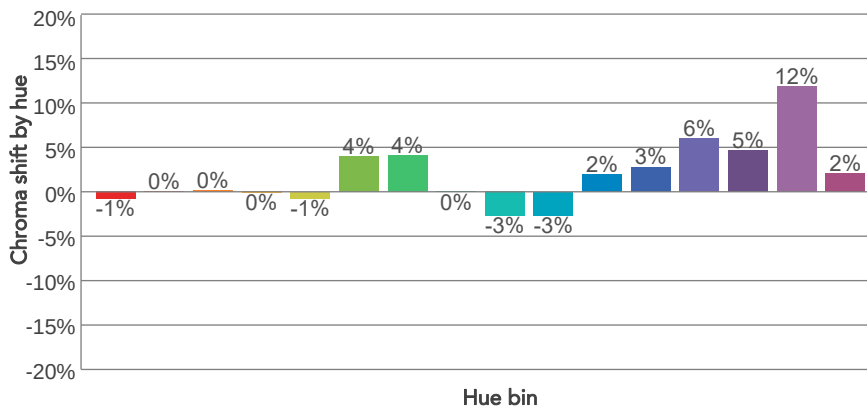
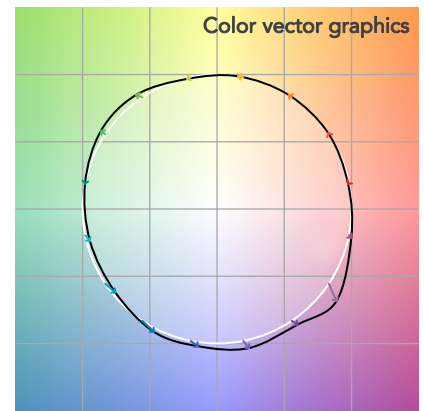
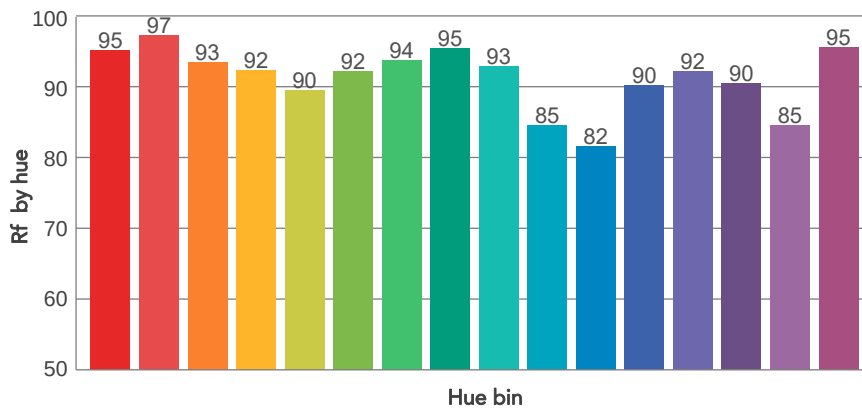
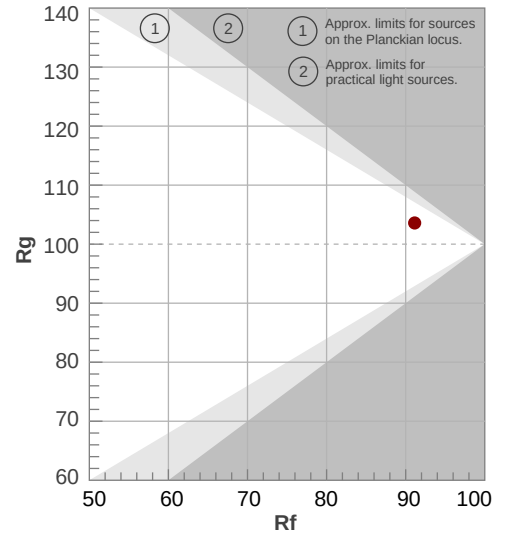
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6004 K	94,4	94,6	91,1	103,6	92,8	94	0,322	0,332	0,0032

TM30 DETAILS

Rf 91,1
Fidelity index Rf

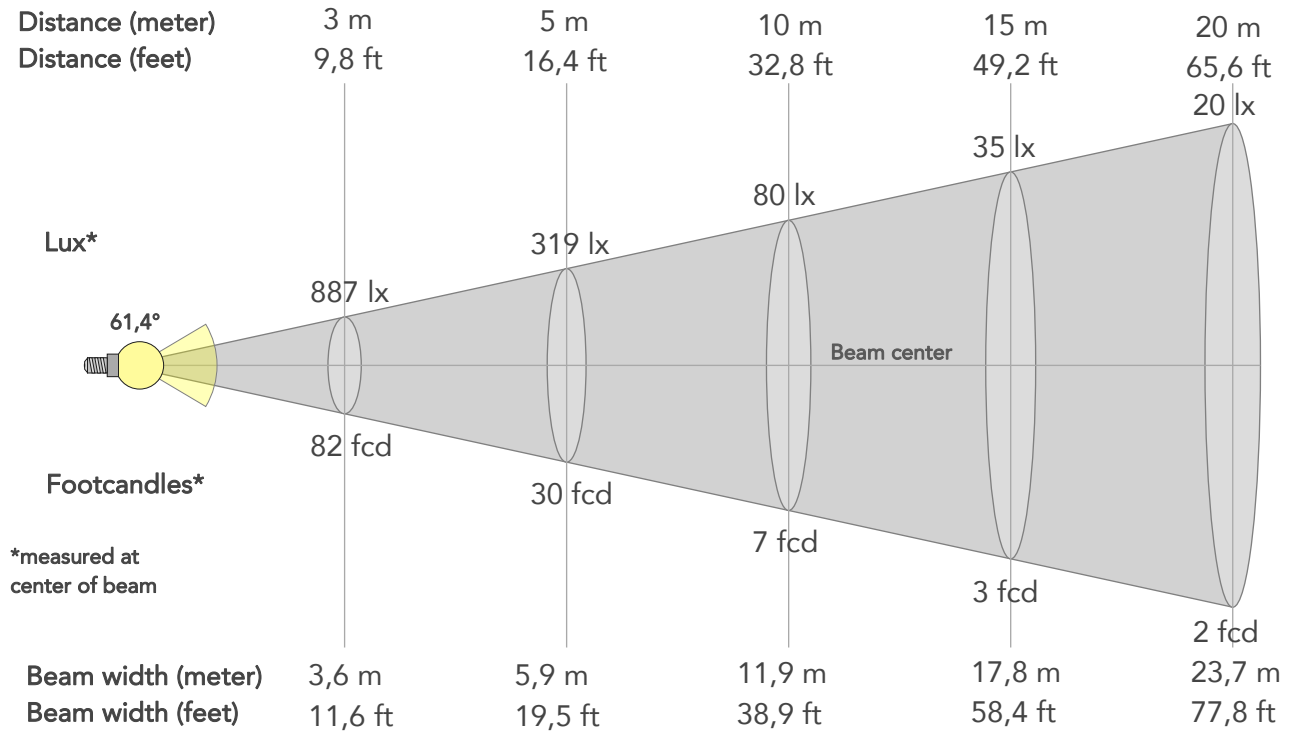
Rg 103,6
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	97	0%	1%
3	93	0%	3%
4	92	0%	4%
5	90	-1%	3%
6	92	4%	3%
7	94	4%	0%
8	95	0%	1%
9	93	-3%	5%
10	85	-3%	9%
11	82	2%	12%
12	90	3%	6%
13	92	6%	3%
14	90	5%	2%
15	85	12%	-8%
16	95	2%	-1%



BEAM DETAILS

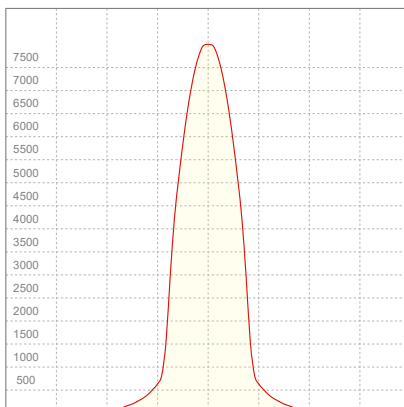
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
61,4°	83,6°	134,7°	95,0%	87,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	7984lx	1996lx	887lx	499lx	319lx	142lx	80lx	35lx	20lx	13lx	9lx	5lx	3lx
Footcand.	742fcd	185fcd	82fcd	46fcd	30fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,7m	5,9m	8,9m	11,9m	17,8m	23,7m	29,7m	35,6m	47,5m	59,3m
Beam wid.	3,9ft	7,8ft	11,6ft	15,5ft	19,5ft	29,2ft	38,9ft	58,4ft	77,8ft	97,3ft	116,7ft	155,7ft	194,6ft

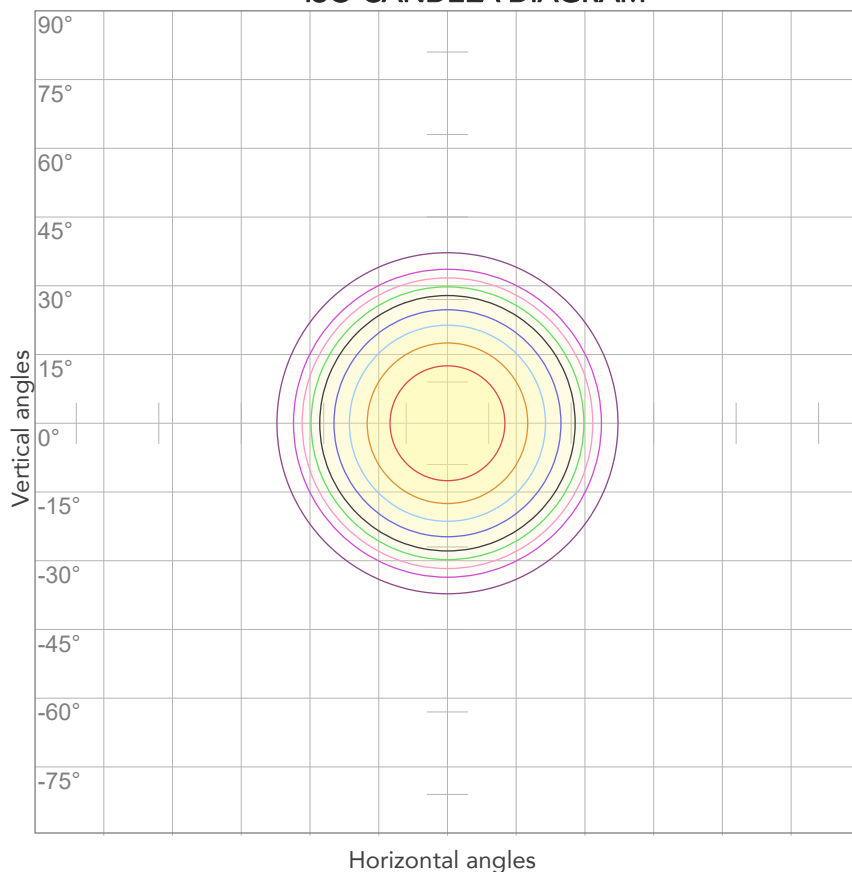
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,863A	188,5W	42lm/W

ISO CANDELA DIAGRAM



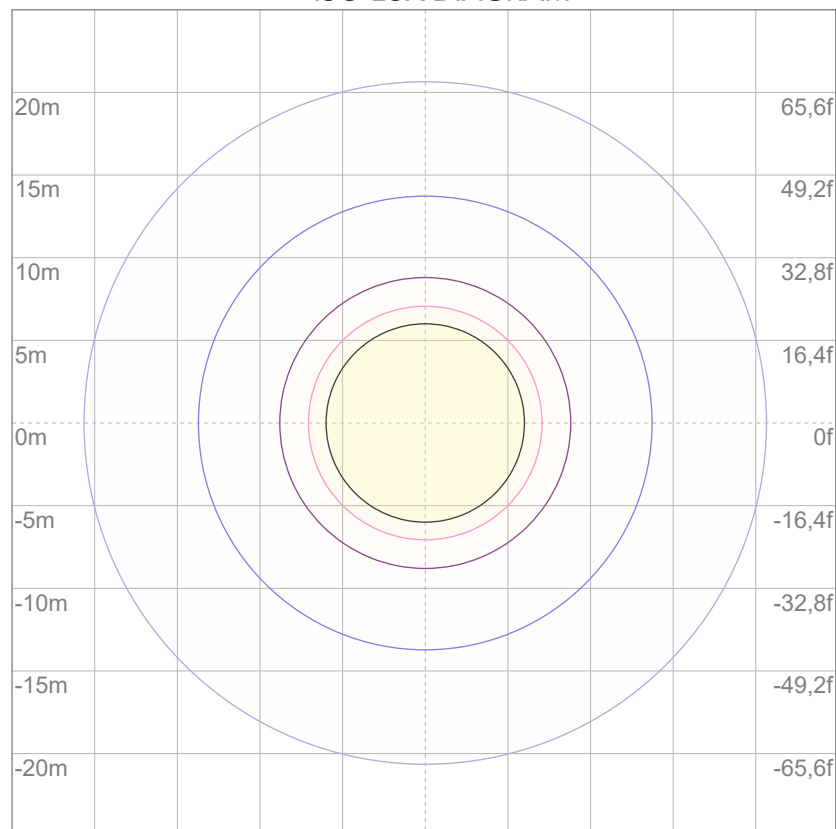
10%	798 cd
20%	1597 cd
30%	2395 cd
40%	3194 cd
50%	3992 cd
60%	4790 cd
70%	5589 cd
80%	6387 cd

Conditions:

Number of c-planes: 2

Candela at center: 7984 cd

ISO LUX DIAGRAM



3%	2,40 lx
5%	3,99 lx
10%	7,98 lx
30%	24,0 lx
50%	39,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 79,8 lx

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