

Photometric Test Report



ECLDISPLAYDATFC

ZOOMABLE WASH LENS 25-50°

40W RGB+WW LED gallery light, Tunable White
and Full Colour with data control

DMX / Dali T8 / Knob-dimming

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TESTING PROCESS

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

Prolights measurement instrument

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

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

Prolights measurement software

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

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



Total lumen output:

369 lm

Peak candela output:

447 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

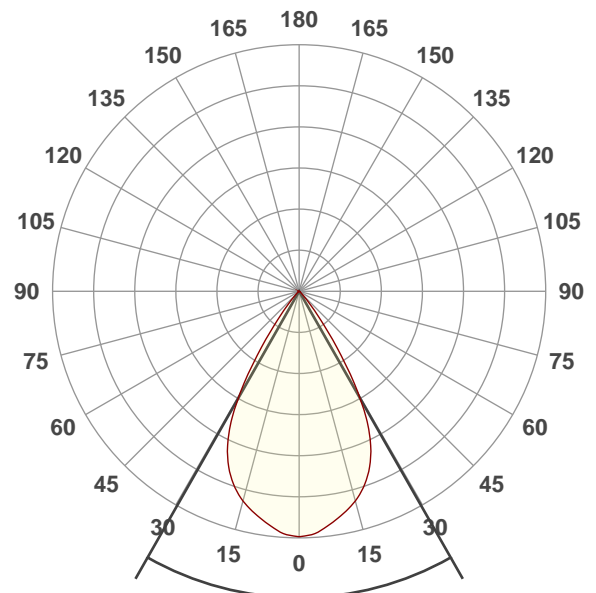
Full On

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:27:18

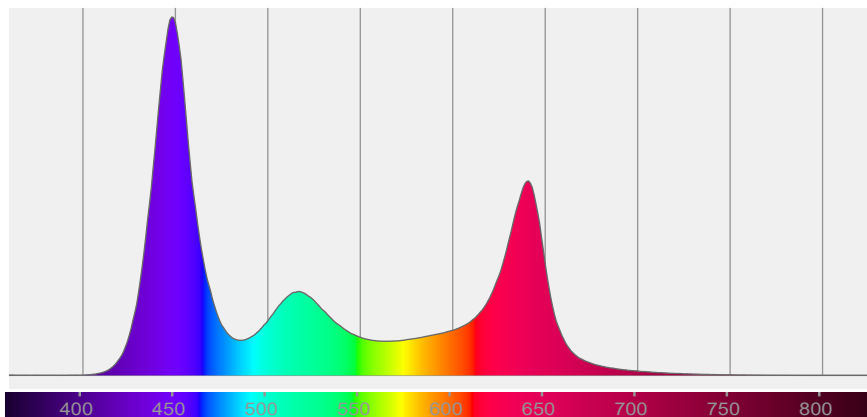


Beam angle 50%: 59,3°

Field angle 10%: 77,6°

Cut off angle 2.5%: 89,3°

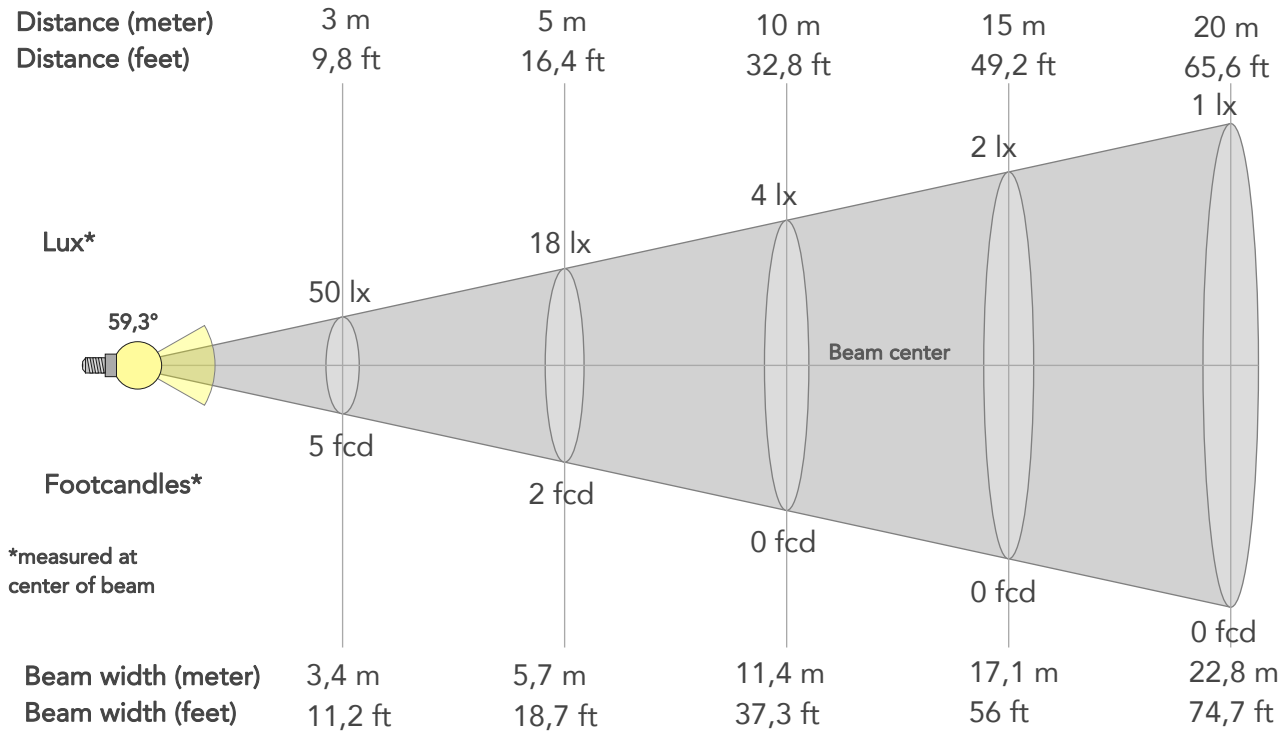
Spectra



BEAM DETAILS



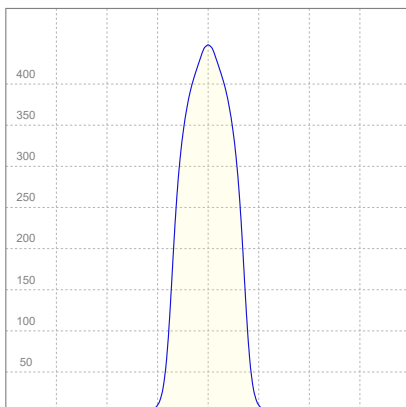
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,3°	77,6°	89,3°	99,8%	98,5%



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	447lx	112lx	50lx	28lx	18lx	8lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	42fcd	10fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,6m	5,7m	8,5m	11,4m	17,1m	22,8m	28,5m	34,2m	45,5m	56,9m
Beam wid.	3,8ft	7,5ft	11,2ft	14,9ft	18,7ft	28ft	37,3ft	56ft	74,7ft	93,4ft	112ft	149,4ft	186,7ft

LINEAR DISTRIBUTION DIAGRAM

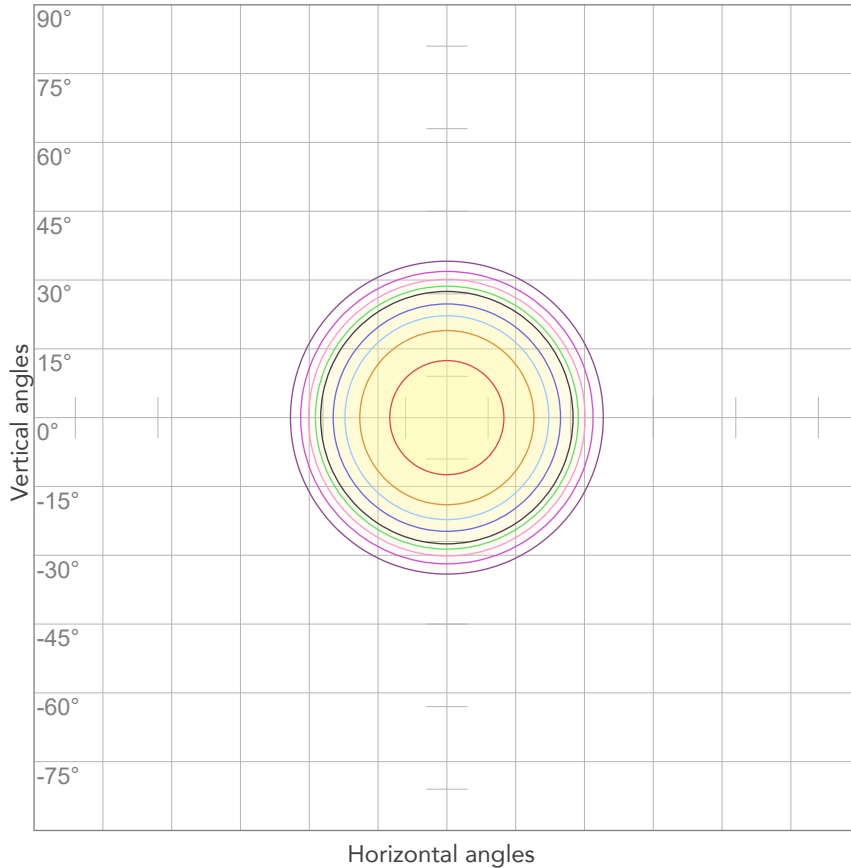


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,155A	32,6W	11lm/W

Power FC
0,94

ISO CANDELA DIAGRAM



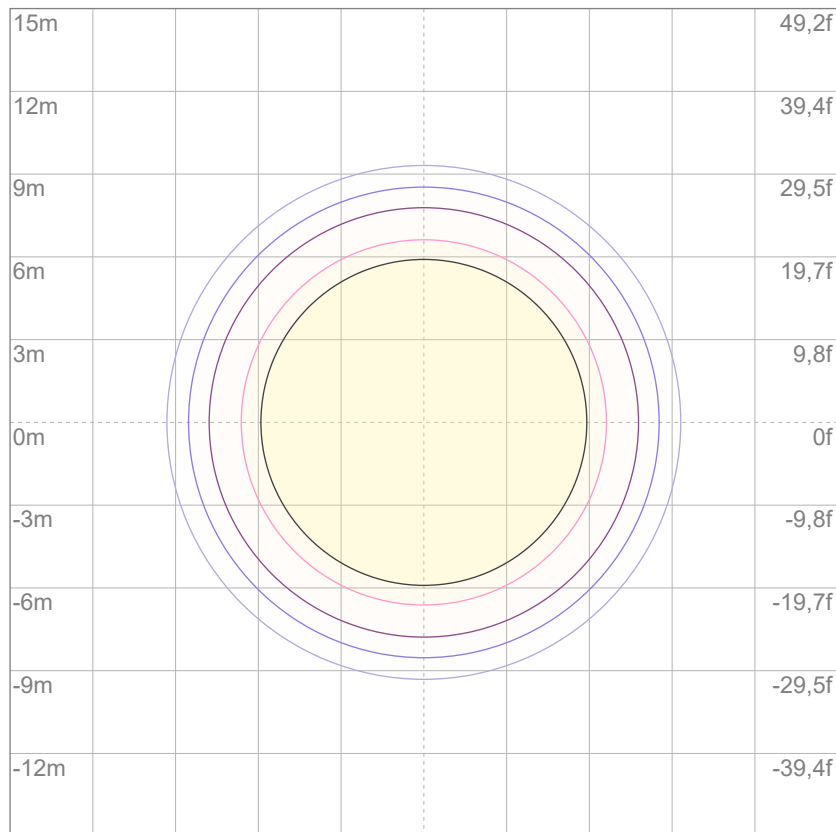
10%	45 cd
20%	89 cd
30%	134 cd
40%	179 cd
50%	224 cd
60%	268 cd
70%	313 cd
80%	358 cd

Conditions:

Number of c-planes: 2

Candela at center: 447 cd

ISO LUX DIAGRAM



3%	0,134 lx
5%	0,224 lx
10%	0,447 lx
30%	1,34 lx
50%	2,24 lx

Conditions:

Number of c-planes: 2

Lux at center: 4,47 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

280 lm

Peak candela output:

1121 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

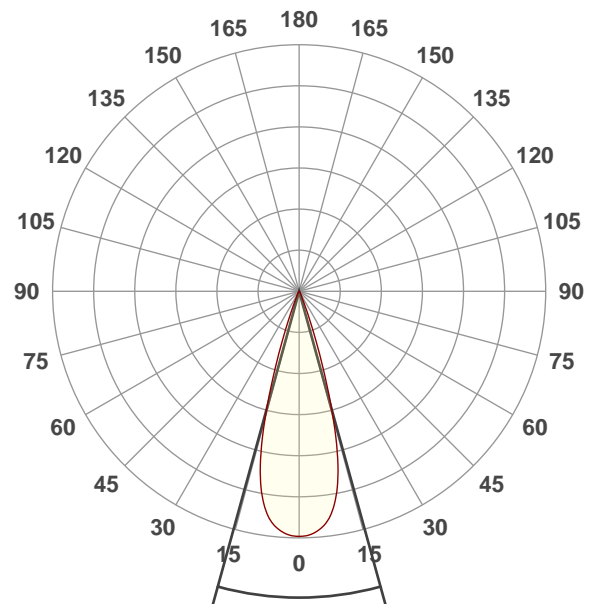
Full On

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:29:07

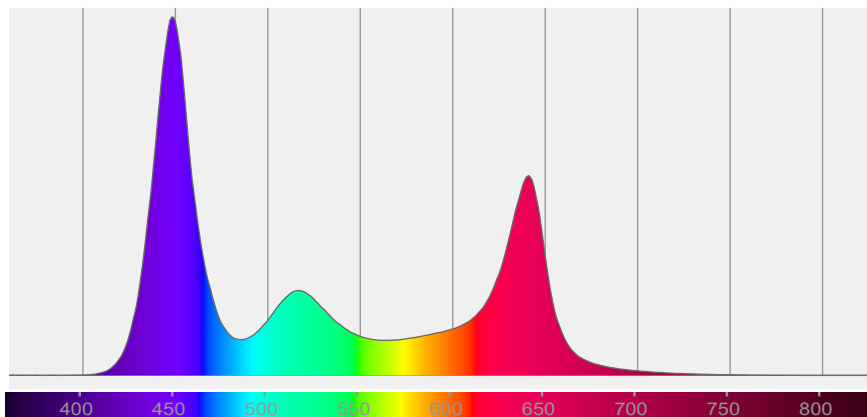


Beam angle 50%: 30,8°

Field angle 10%: 42°

Cut off angle 2.5%: 51,4°

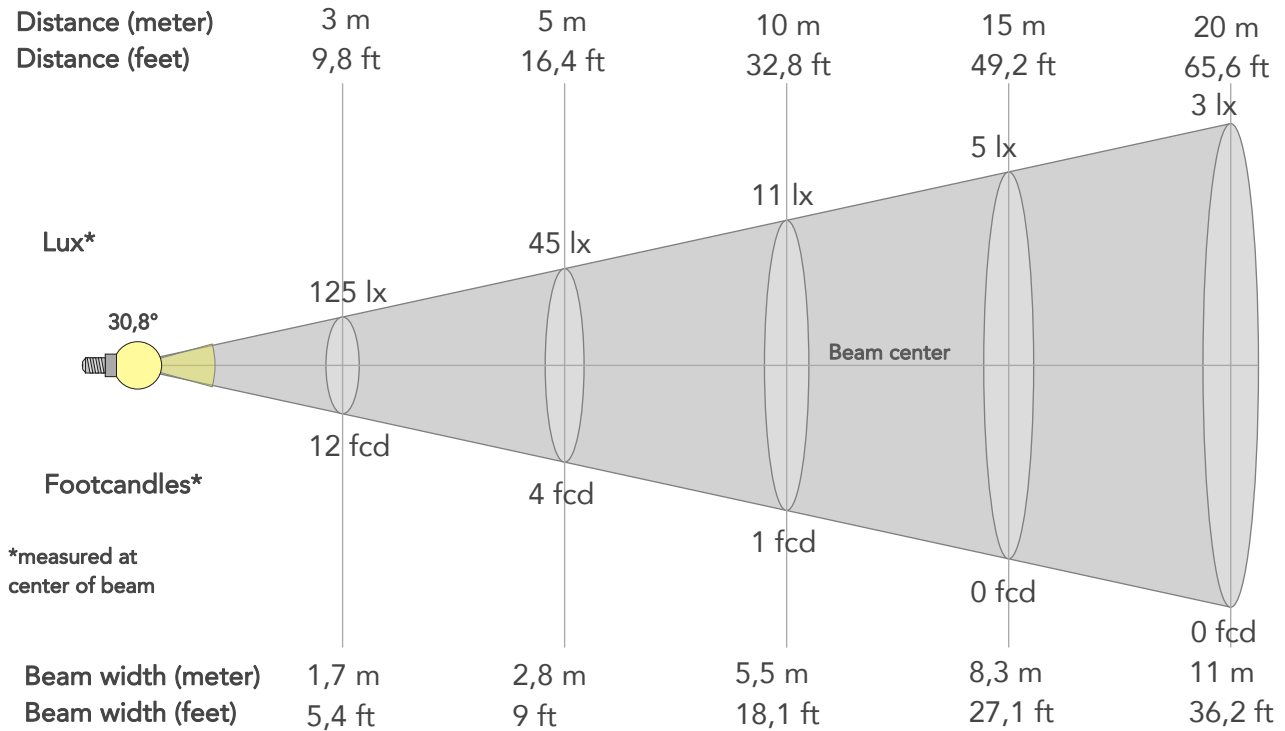
Spectra



BEAM DETAILS



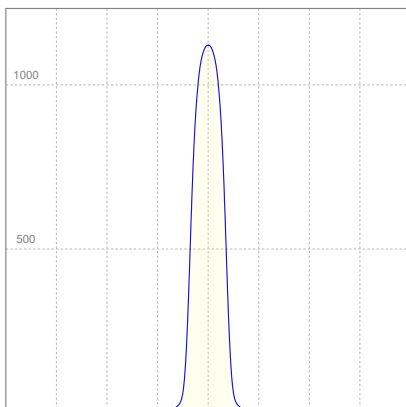
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,8°	42°	51,4°	99,9%	99,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1121lx	280lx	125lx	70lx	45lx	20lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	104fcd	26fcd	12fcd	7fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,1m	5,5m	8,3m	11m	13,8m	16,5m	22m	27,6m
Beam wid.	1,8ft	3,6ft	5,4ft	7,2ft	9ft	13,6ft	18,1ft	27,1ft	36,2ft	45,2ft	54,2ft	72,3ft	90,4ft

LINEAR DISTRIBUTION DIAGRAM

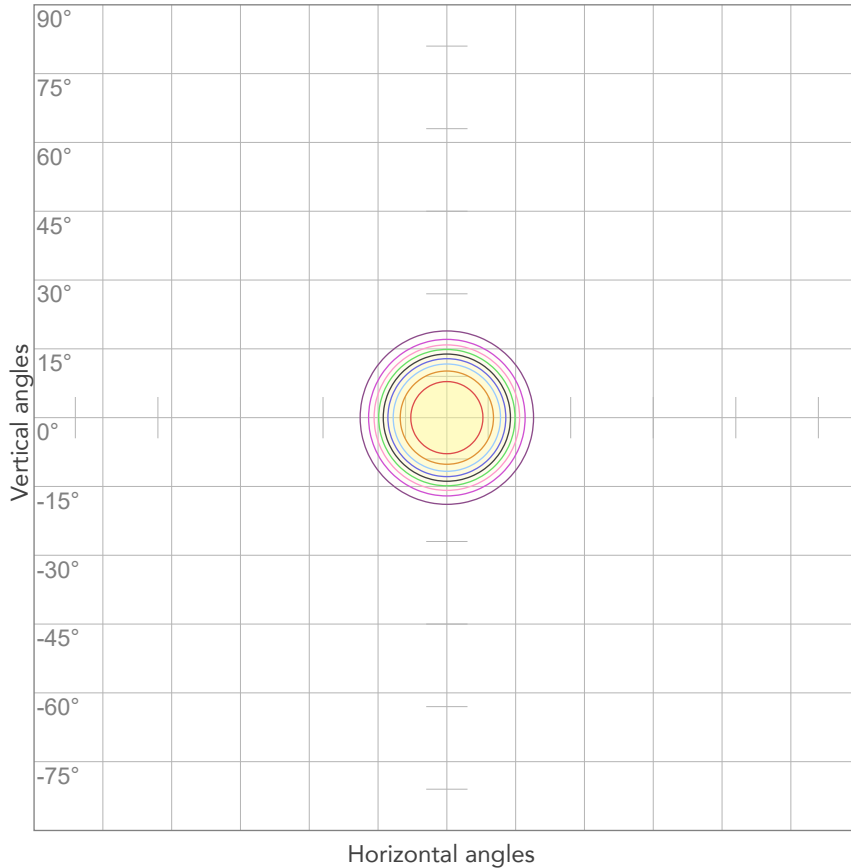


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Efficiency
225V	0,154A	32,6W	9lm/W

Power FC
0,94

ISO CANDELA DIAGRAM



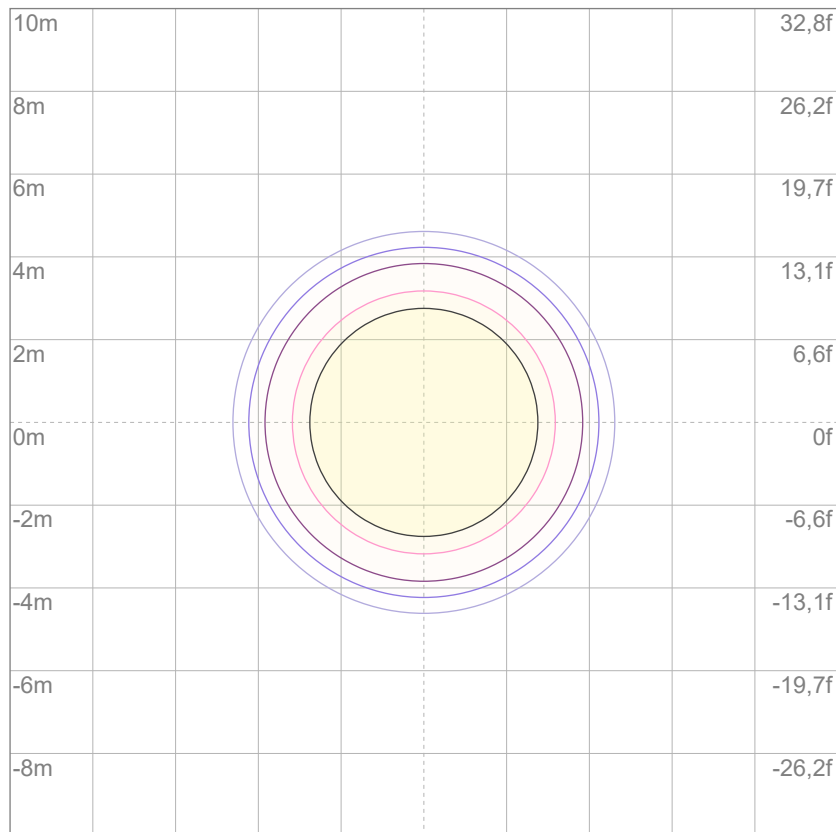
10%	112 cd
20%	224 cd
30%	336 cd
40%	448 cd
50%	560 cd
60%	672 cd
70%	785 cd
80%	897 cd

Conditions:

Number of c-planes: 2

Candela at center: 1121 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,336 lx
5%	0,560 lx
10%	1,12 lx
30%	3,36 lx
50%	5,60 lx

Conditions:

Number of c-planes: 2

Lux at center: 11,2 lx

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



Total lumen output:

96,2 lm

Peak candela output:

121 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

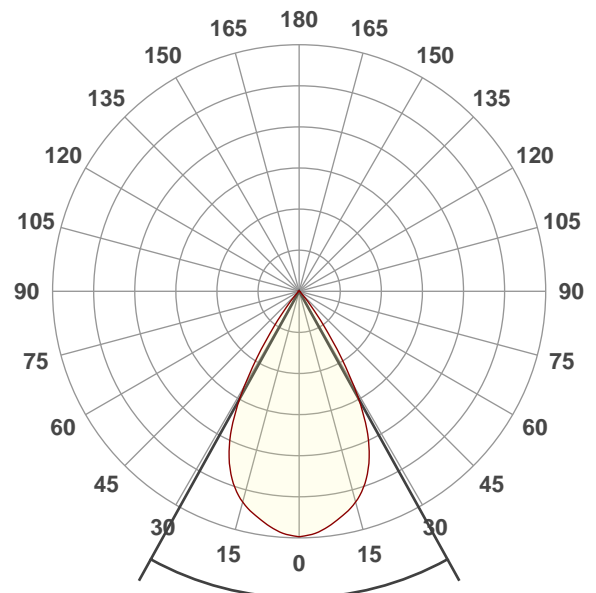
Red

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:05:14

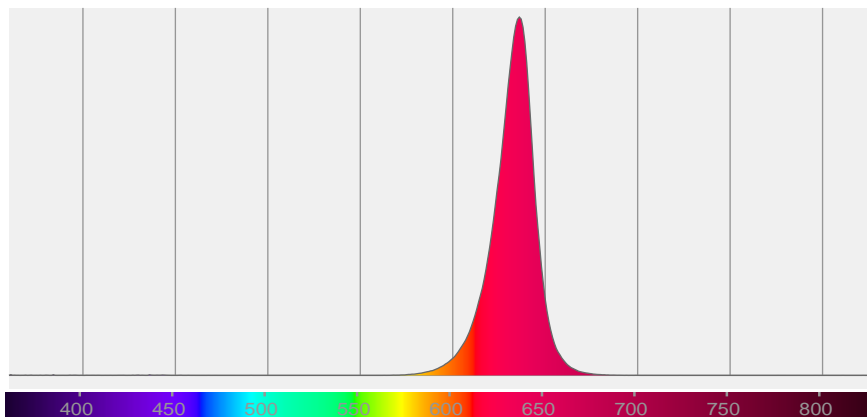


Beam angle 50%: 57,9°

Field angle 10%: 76,2°

Cut off angle 2.5%: 87,8°

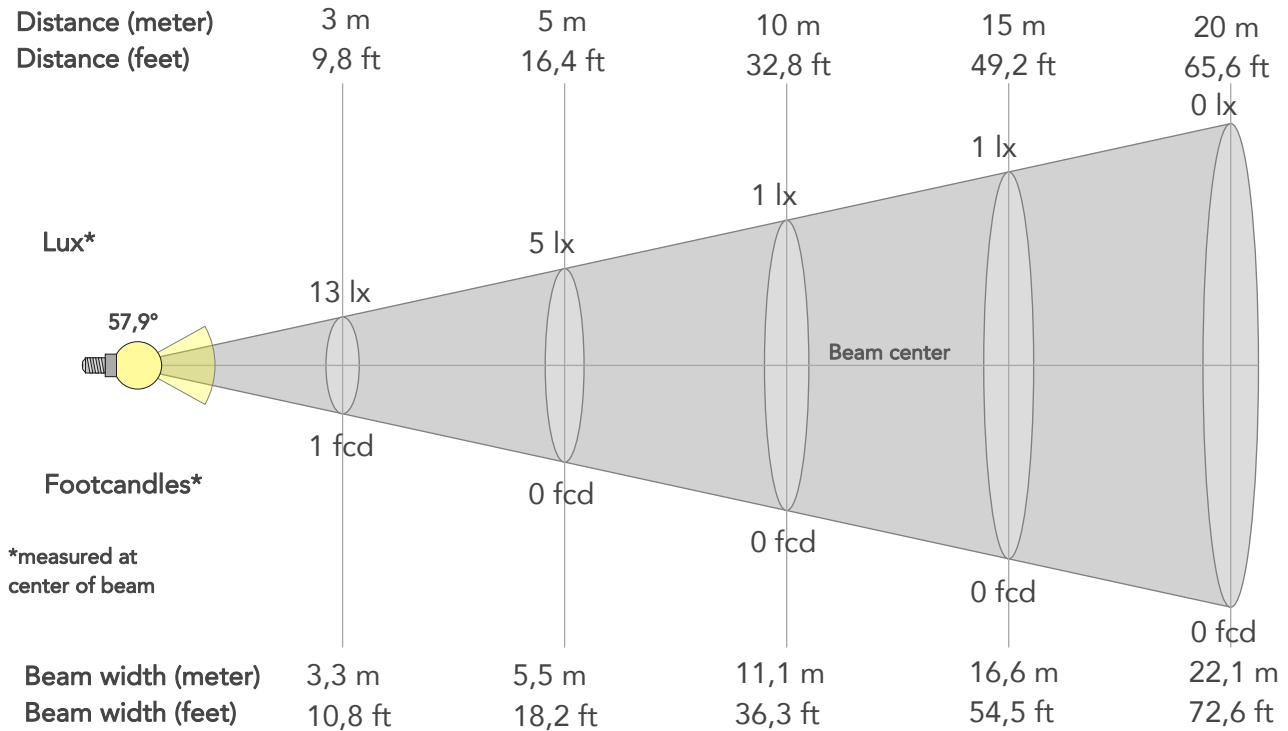
Spectra



BEAM DETAILS



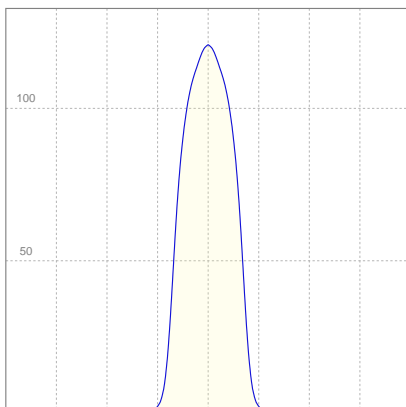
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57,9°	76,2°	87,8°	99,6%	98,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	121lx	30lx	13lx	8lx	5lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	11fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,3m	4,4m	5,5m	8,3m	11,1m	16,6m	22,1m	27,7m	33,2m	44,3m	55,4m
Beam wid.	3,7ft	7,3ft	10,8ft	14,5ft	18,2ft	27,2ft	36,3ft	54,5ft	72,6ft	90,8ft	108,9ft	145,3ft	181,6ft

LINEAR DISTRIBUTION DIAGRAM

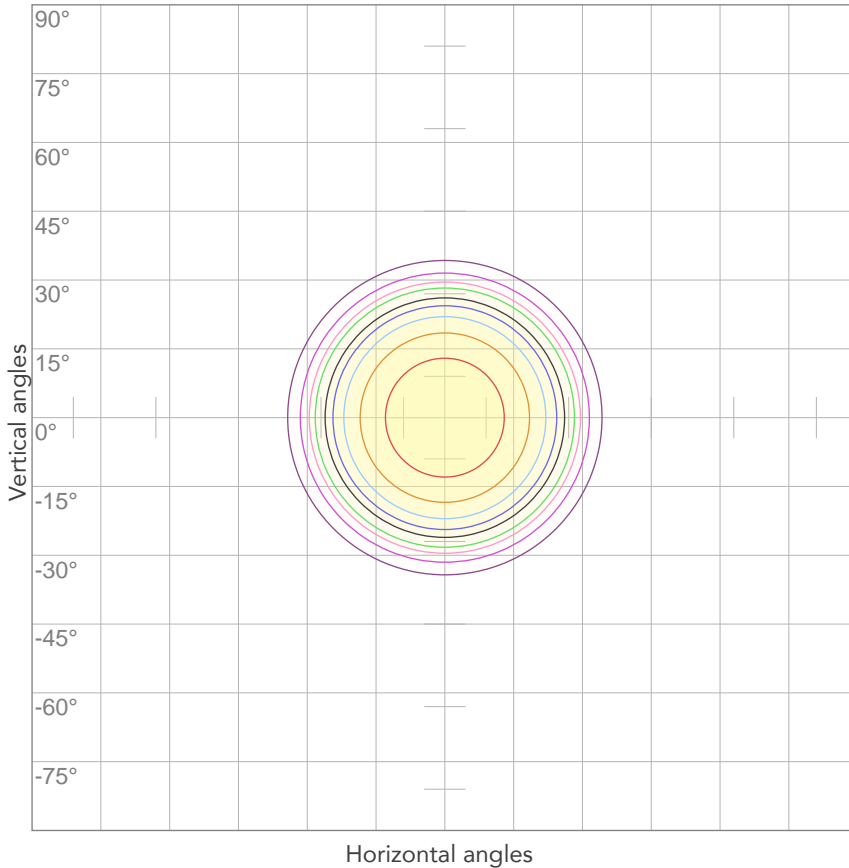


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,069A	13,2W	7lm/W

Power FC
0,85

ISO CANDELA DIAGRAM



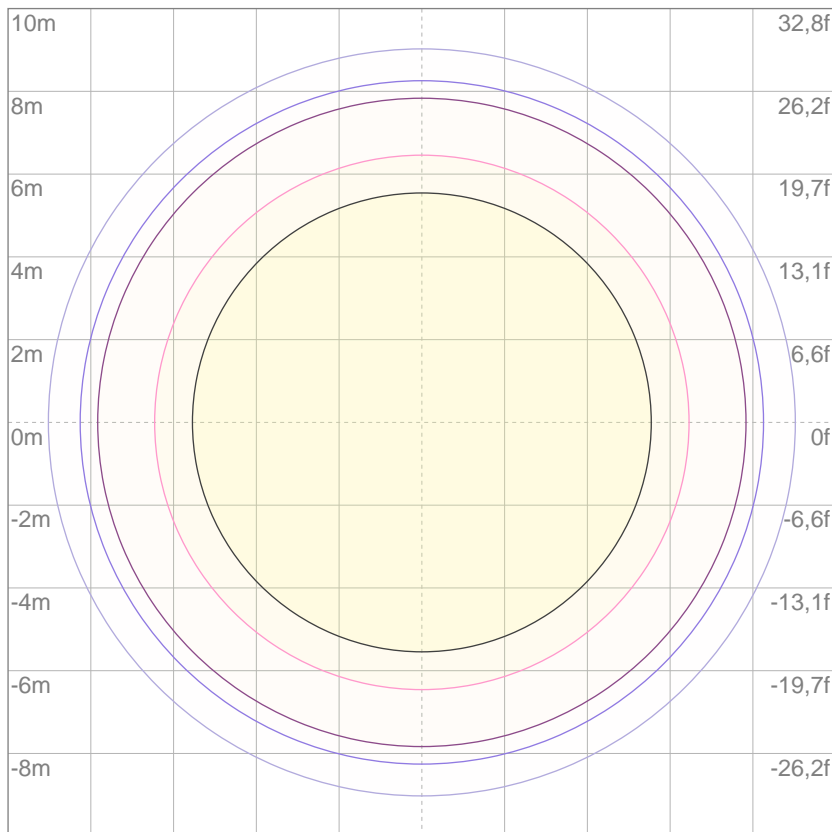
10%	12 cd
20%	24 cd
30%	36 cd
40%	48 cd
50%	60 cd
60%	72 cd
70%	84 cd
80%	97 cd

Conditions:

Number of c-planes: 2

Candela at center: 121 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	36,2m lx
5%	60,4m lx
10%	0,121 lx
30%	0,362 lx
50%	0,604 lx

Conditions:

Number of c-planes: 2

Lux at center: 1,21 lx

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



Total lumen output:

74,1 lm

Peak candela output:

292 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

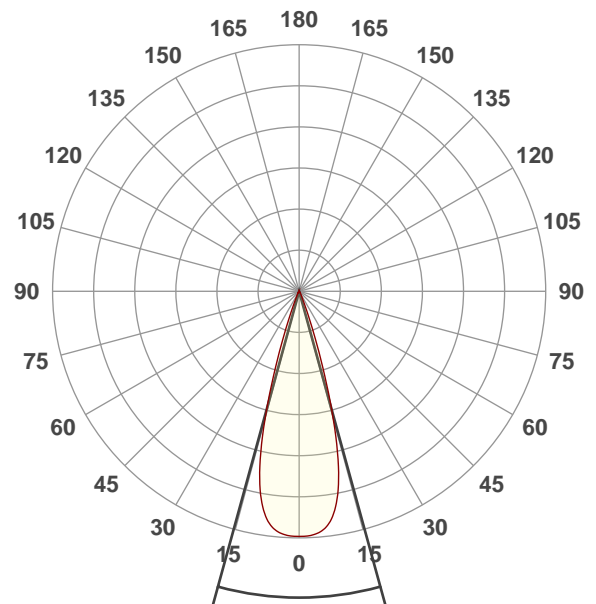
Red

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:14:41

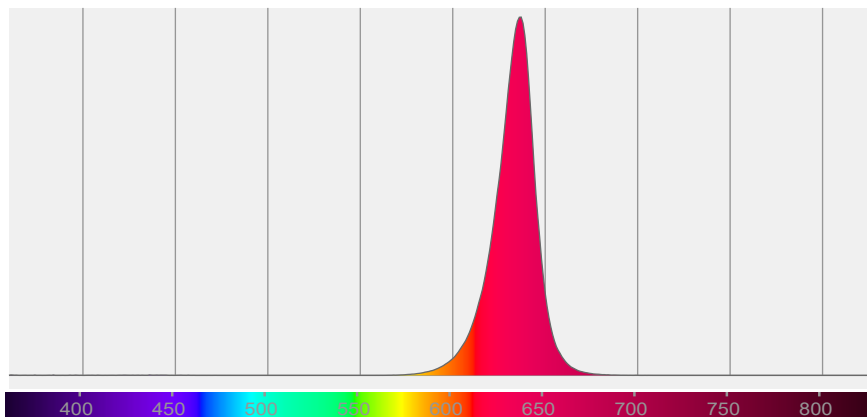


Beam angle 50%: 30,7°

Field angle 10%: 42°

Cut off angle 2.5%: 51,7°

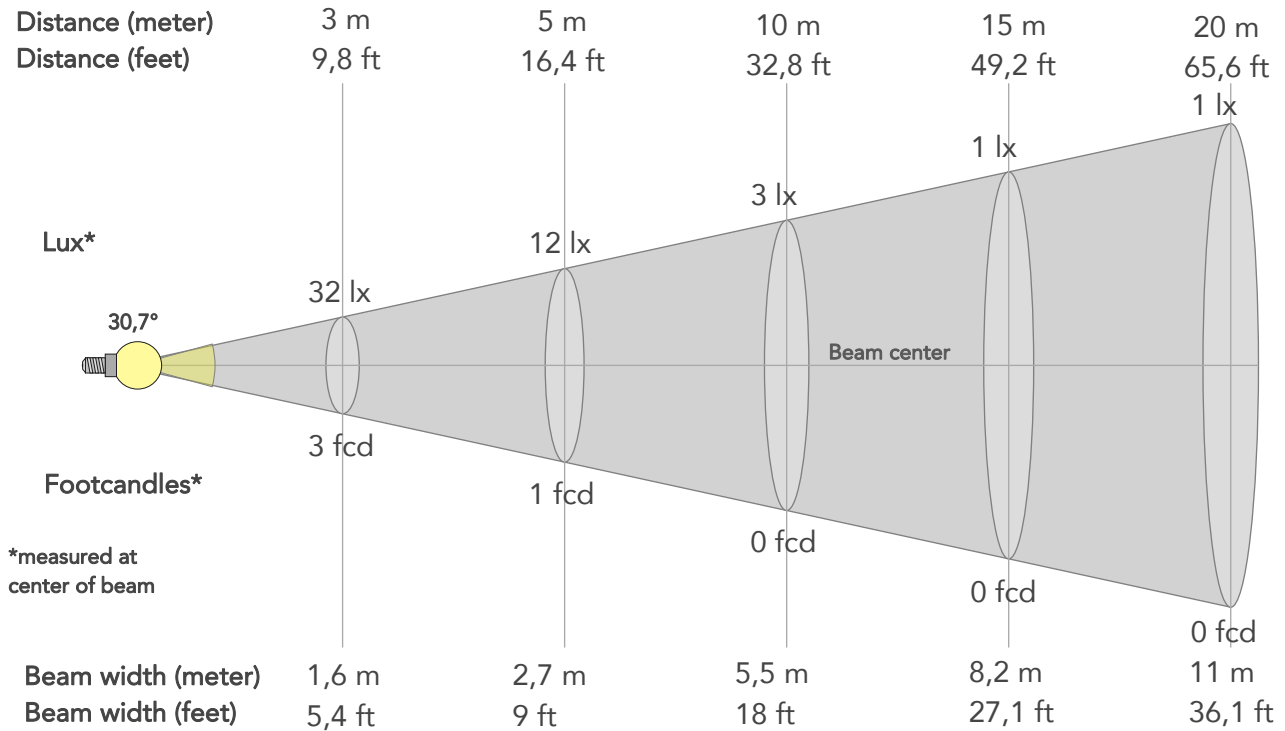
Spectra



BEAM DETAILS



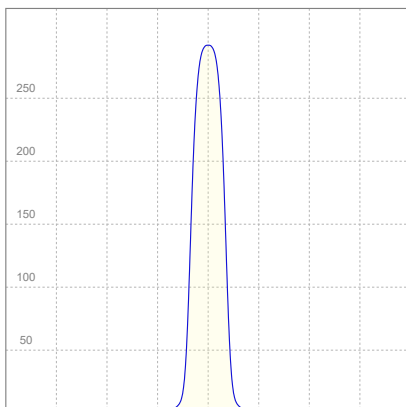
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,7°	42°	51,7°	99,7%	99,0%



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	292lx	73lx	32lx	18lx	12lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	27fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,5m	8,2m	11m	13,7m	16,5m	22m	27,5m
Beam wid.	1,8ft	3,6ft	5,4ft	7,2ft	9ft	13,5ft	18ft	27,1ft	36,1ft	45,1ft	54,1ft	72,1ft	90,2ft

LINEAR DISTRIBUTION DIAGRAM

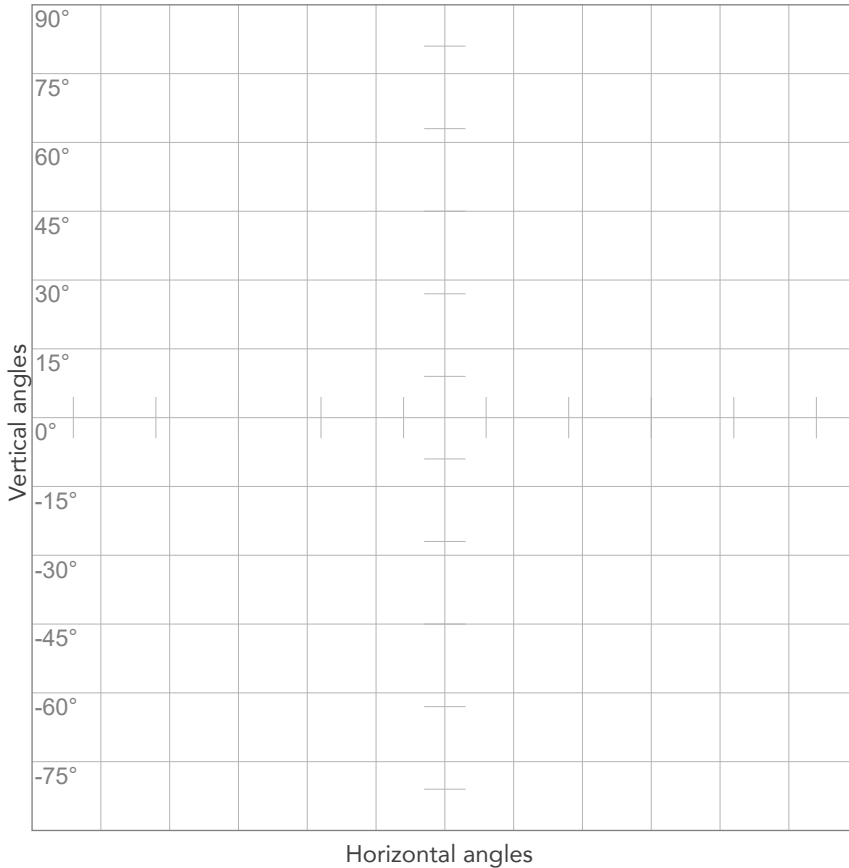


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,070A	13,3W	6lm/W

Power FC
0,85

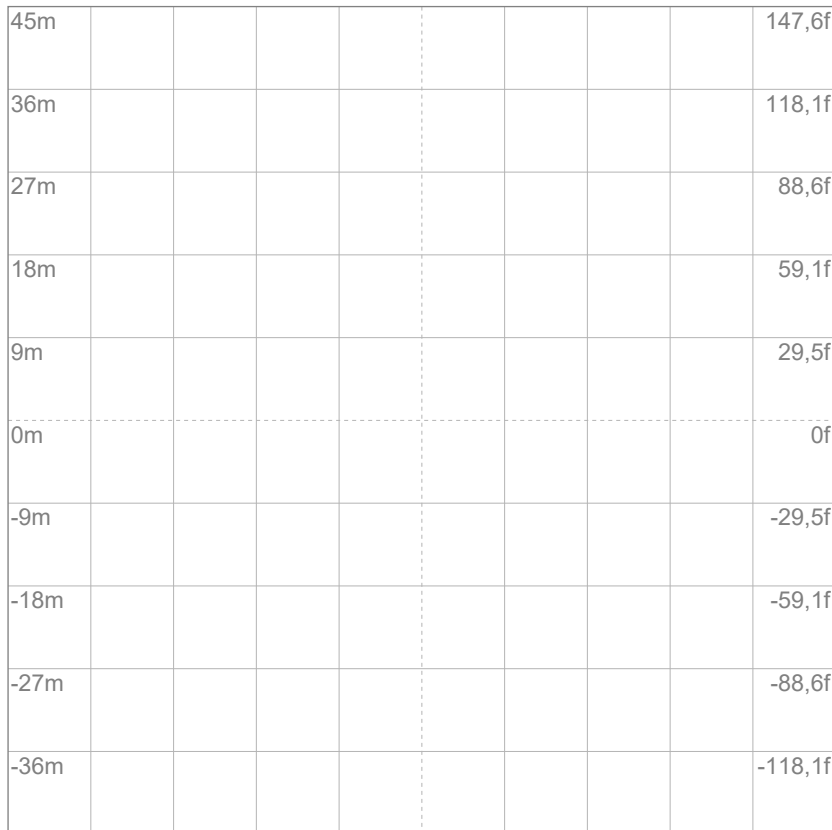
ISO CANDELA DIAGRAM



10%	29 cd
20%	58 cd
30%	88 cd
40%	117 cd
50%	146 cd
60%	175 cd
70%	204 cd
80%	234 cd

Conditions:
 Number of c-planes: 2
 Candela at center: 292 cd

ISO LUX DIAGRAM



3%	87,6m lx
5%	0,146 lx
10%	0,292 lx
30%	0,876 lx
50%	1,46 lx

Conditions:
 Number of c-planes: 2
 Lux at center: 2,92 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

220 lm

Peak candela output:

265 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

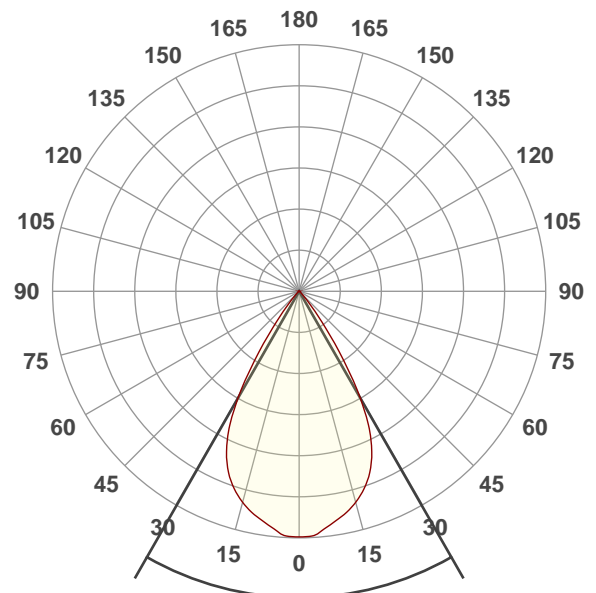
Green

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:07:04

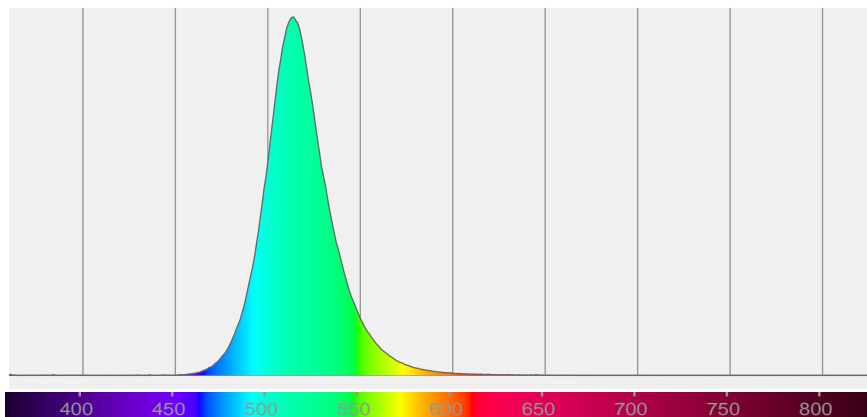


Beam angle 50%: 59,6°

Field angle 10%: 77,2°

Cut off angle 2.5%: 88,7°

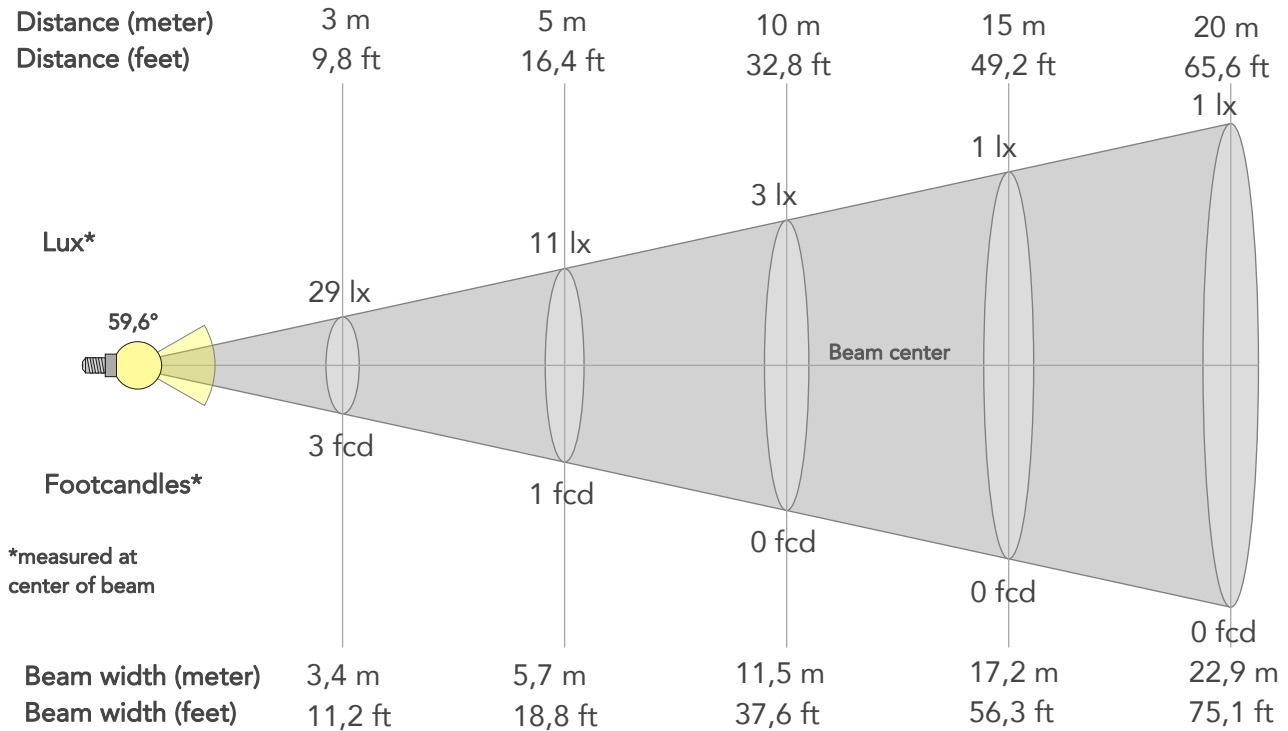
Spectra



BEAM DETAILS



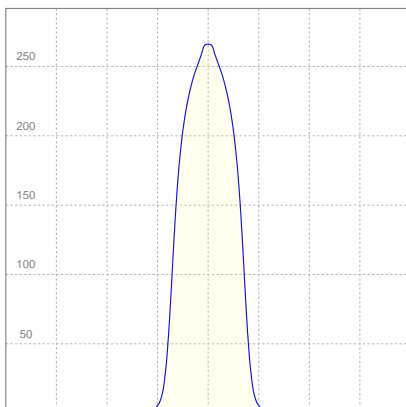
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,6°	77,2°	88,7°	99,7%	98,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	265lx	66lx	29lx	17lx	11lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	25fcd	6fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,6m	5,7m	8,6m	11,5m	17,2m	22,9m	28,6m	34,4m	45,8m	57,3m
Beam wid.	3,8ft	7,6ft	11,2ft	15ft	18,8ft	28,2ft	37,6ft	56,3ft	75,1ft	93,9ft	112,7ft	150,2ft	187,8ft

LINEAR DISTRIBUTION DIAGRAM

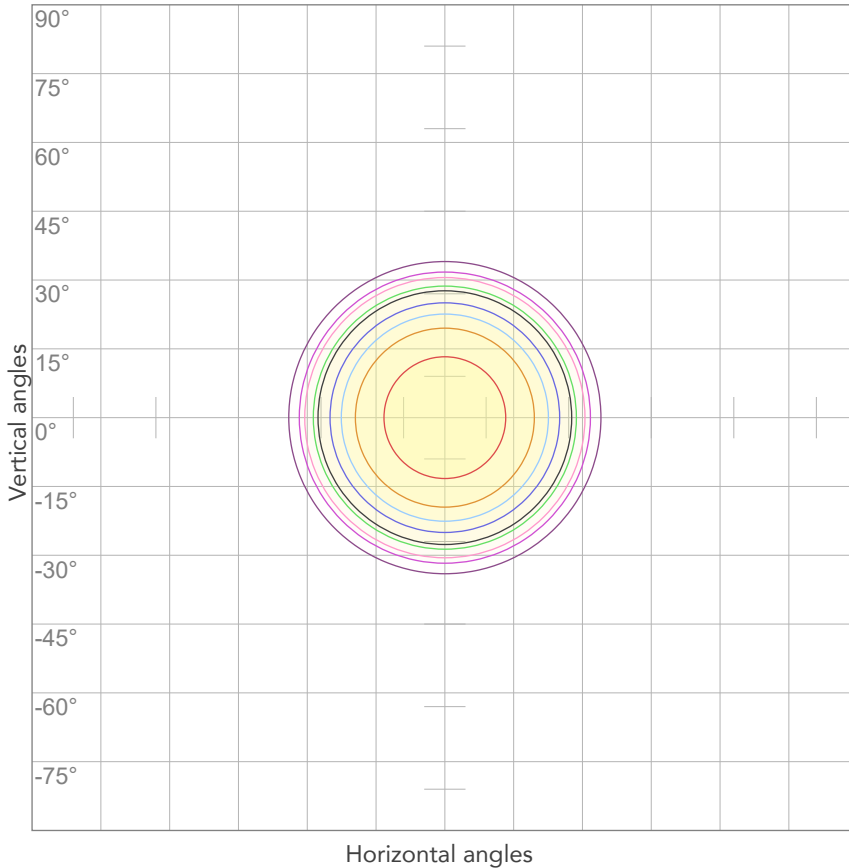


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,093A	18,4W	12lm/W

Power FC
0,89

ISO CANDELA DIAGRAM



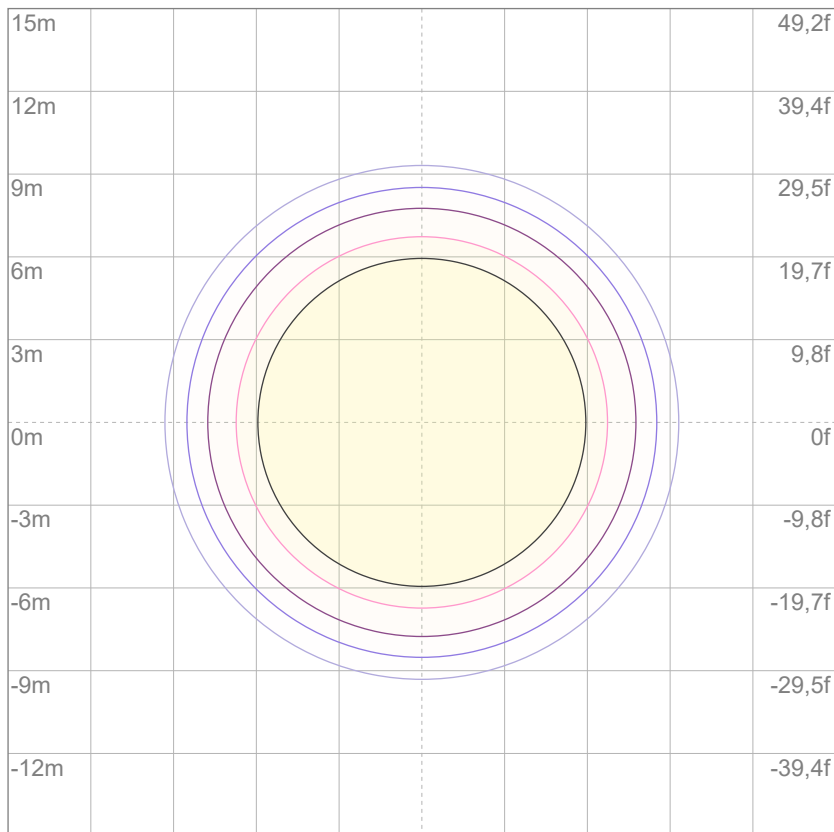
10%	27 cd
20%	53 cd
30%	80 cd
40%	106 cd
50%	133 cd
60%	159 cd
70%	186 cd
80%	212 cd

Conditions:

Number of c-planes: 2

Candela at center: 265 cd

ISO LUX DIAGRAM



3%	79,6m lx
5%	0,133 lx
10%	0,265 lx
30%	0,796 lx
50%	1,33 lx

Conditions:

Number of c-planes: 2

Lux at center: 2,65 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

166 lm

Peak candela output:

664 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

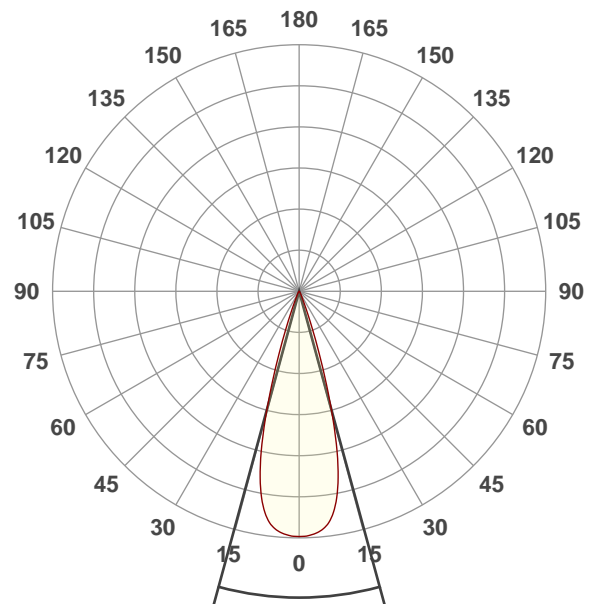
Green

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:17:24

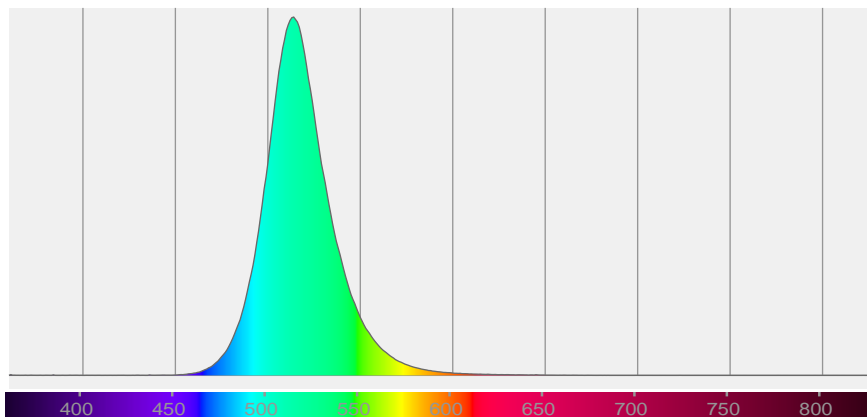


Beam angle 50%: 30,5°

Field angle 10%: 41,6°

Cut off angle 2.5%: 51,7°

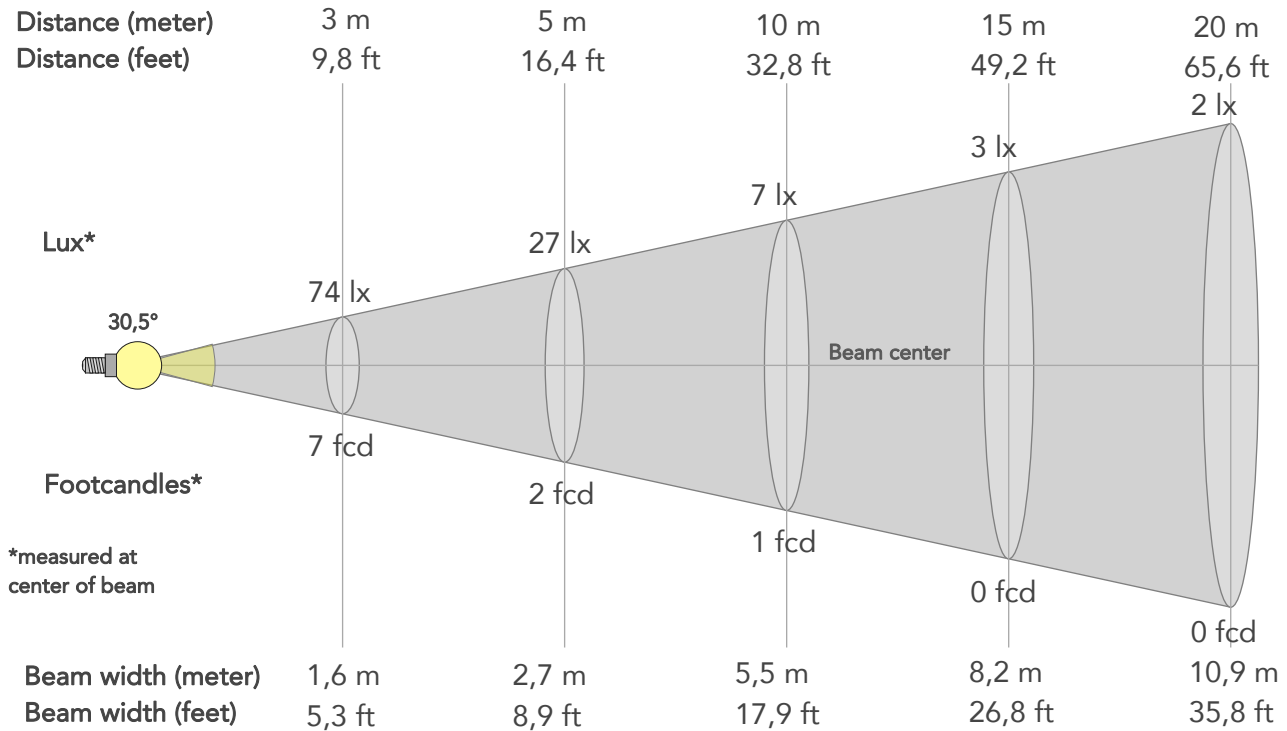
Spectra



BEAM DETAILS



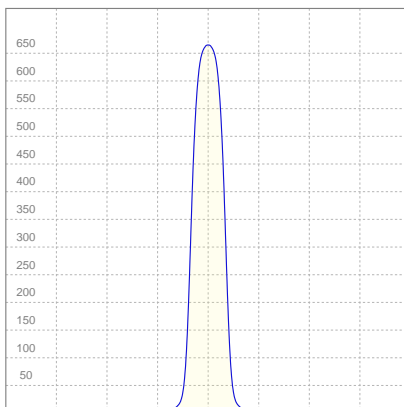
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,5°	41,6°	51,7°	99,6%	99,0%



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	664lx	166lx	74lx	42lx	27lx	12lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	62fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,5m	8,2m	10,9m	13,6m	16,4m	21,8m	27,3m
Beam wid.	1,8ft	3,6ft	5,3ft	7,1ft	8,9ft	13,4ft	17,9ft	26,8ft	35,8ft	44,7ft	53,6ft	71,5ft	89,4ft

LINEAR DISTRIBUTION DIAGRAM

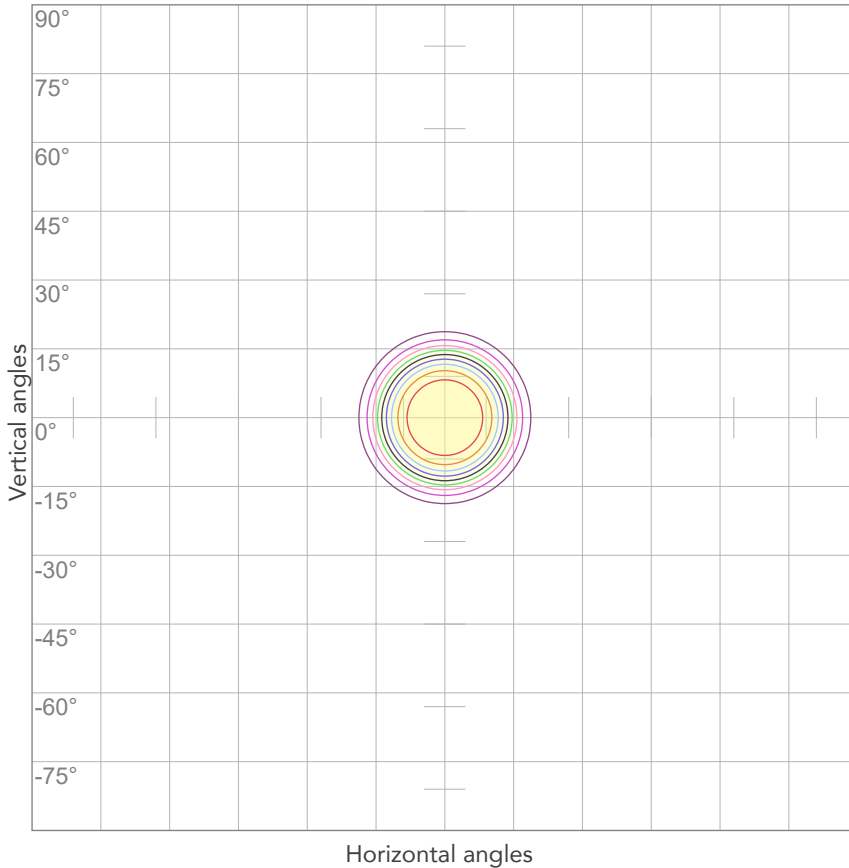


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,093A	18,5W	9lm/W

Power FC
0,89

ISO CANDELA DIAGRAM

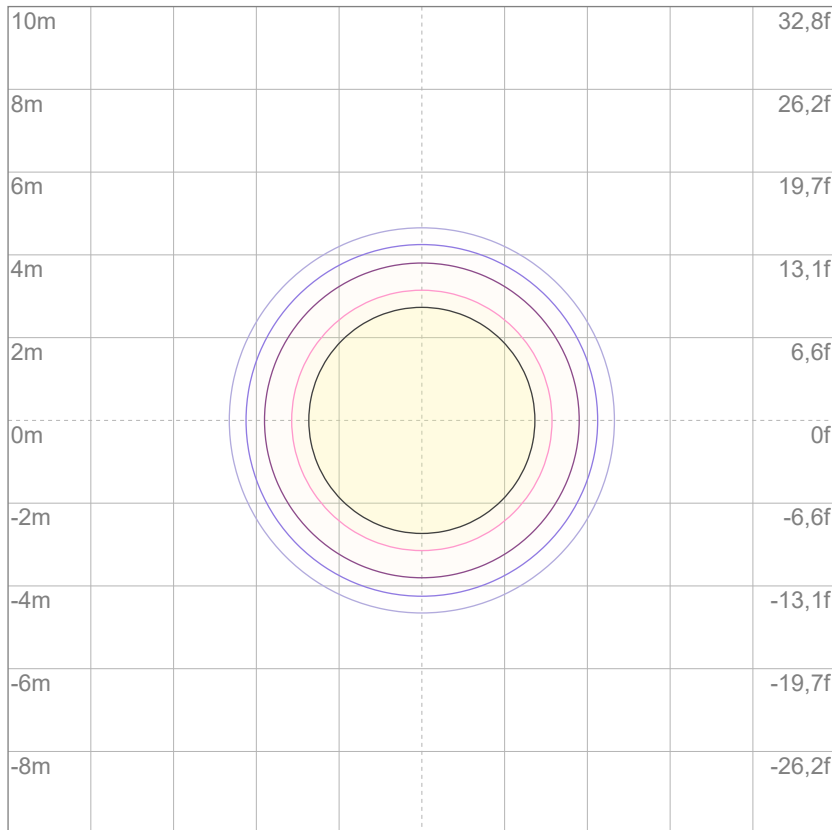


10%	66 cd
20%	133 cd
30%	199 cd
40%	266 cd
50%	332 cd
60%	399 cd
70%	465 cd
80%	532 cd

Conditions:

Number of c-planes: 2
Candela at center: 664 cd

ISO LUX DIAGRAM



3%	0,199 lx
5%	0,332 lx
10%	0,664 lx
30%	1,99 lx
50%	3,32 lx

Conditions:

Number of c-planes: 2
Lux at center: 6,64 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

45,4 lm

Peak candela output:

54,4 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

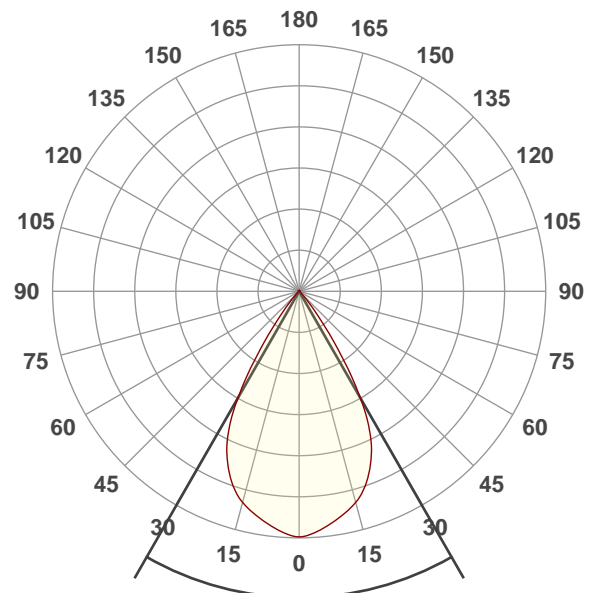
Blue

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:08:38

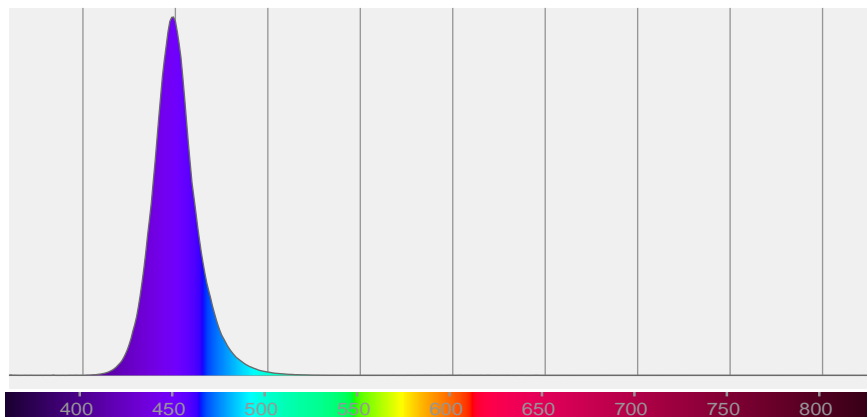


Beam angle 50%: 59,7°

Field angle 10%: 77,5°

Cut off angle 2.5%: 89,2°

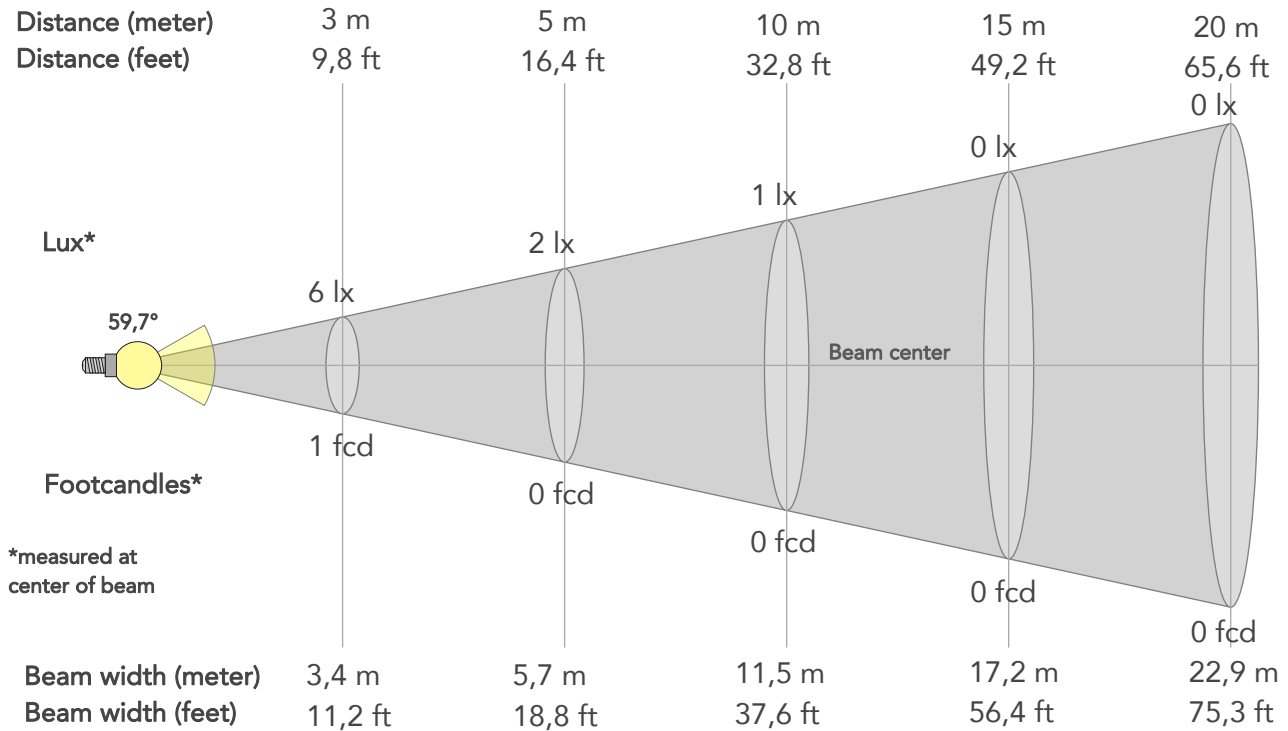
Spectra



BEAM DETAILS



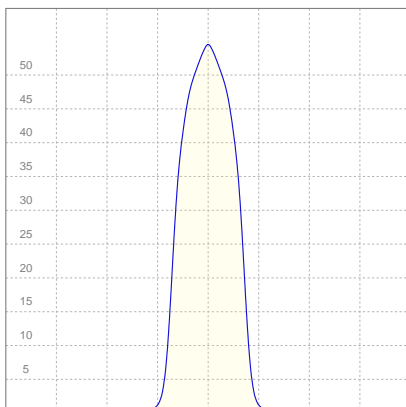
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,7°	77,5°	89,2°	99,5%	98,0%



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	54lx	14lx	6lx	3lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
Footcand.	5fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,6m	5,7m	8,6m	11,5m	17,2m	22,9m	28,7m	34,4m	45,9m	57,4m
Beam wid.	3,8ft	7,6ft	11,2ft	15ft	18,8ft	28,2ft	37,6ft	56,4ft	75,3ft	94,1ft	112,9ft	150,5ft	188,2ft

LINEAR DISTRIBUTION DIAGRAM

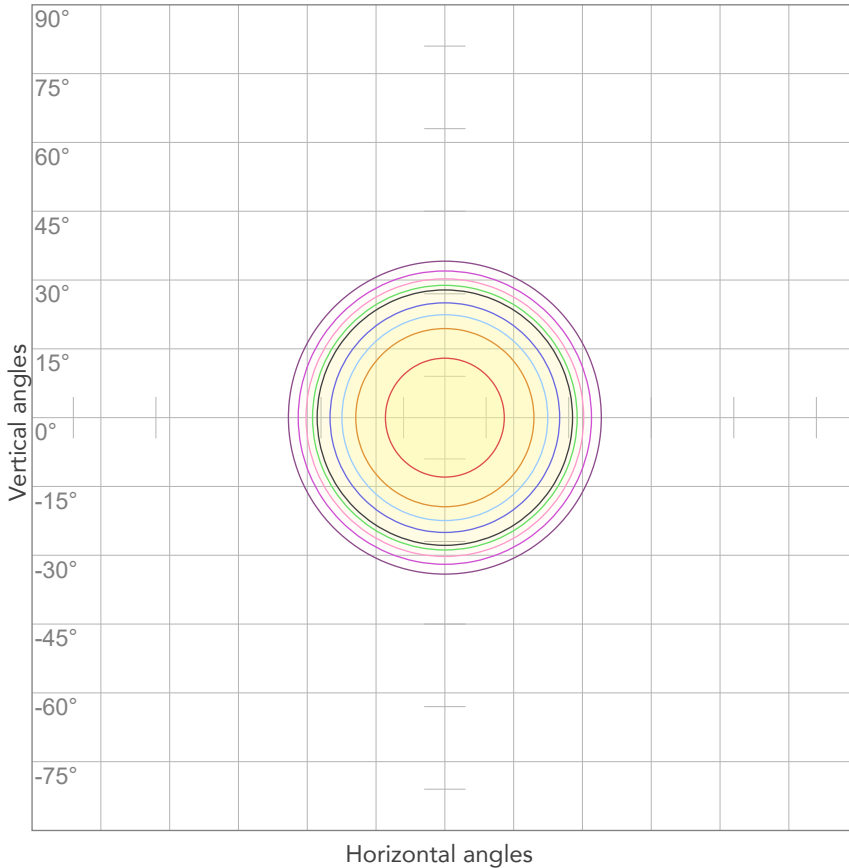


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,085A	16,6W	3lm/W

Power FC
0,88

ISO CANDELA DIAGRAM



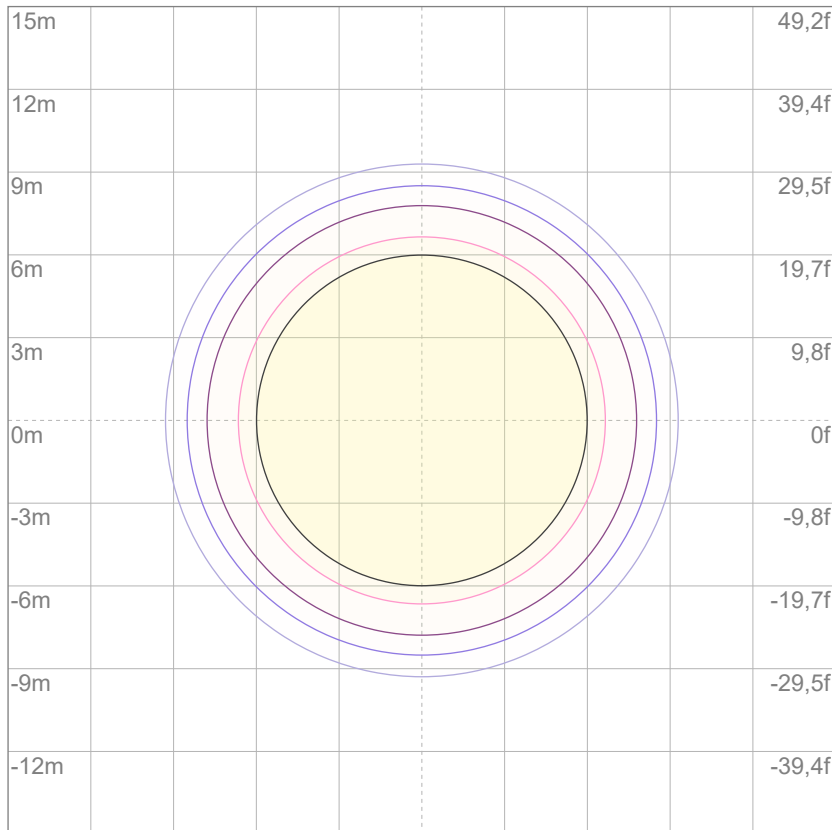
10%	5 cd
20%	11 cd
30%	16 cd
40%	22 cd
50%	27 cd
60%	33 cd
70%	38 cd
80%	44 cd

Conditions:

Number of c-planes: 2

Candela at center: 54 cd

ISO LUX DIAGRAM



3%	16,3m lx
5%	27,2m lx
10%	54,4m lx
30%	0,163 lx
50%	0,272 lx

Conditions:

Number of c-planes: 2

Lux at center: 0,544 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

34,1 lm

Peak candela output:

141 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

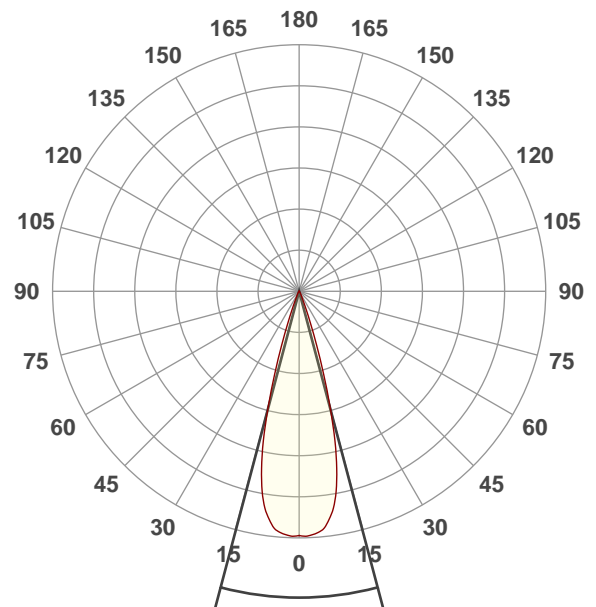
Blue

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:19:48

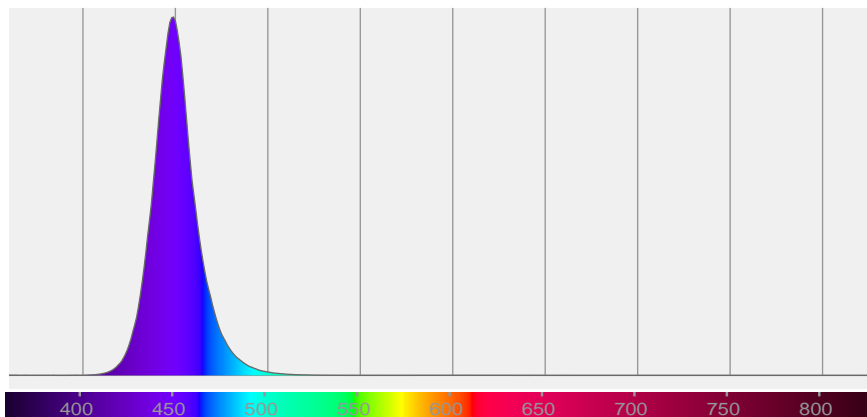


Beam angle 50%: 29,7°

Field angle 10%: 41,1°

Cut off angle 2.5%: 50,7°

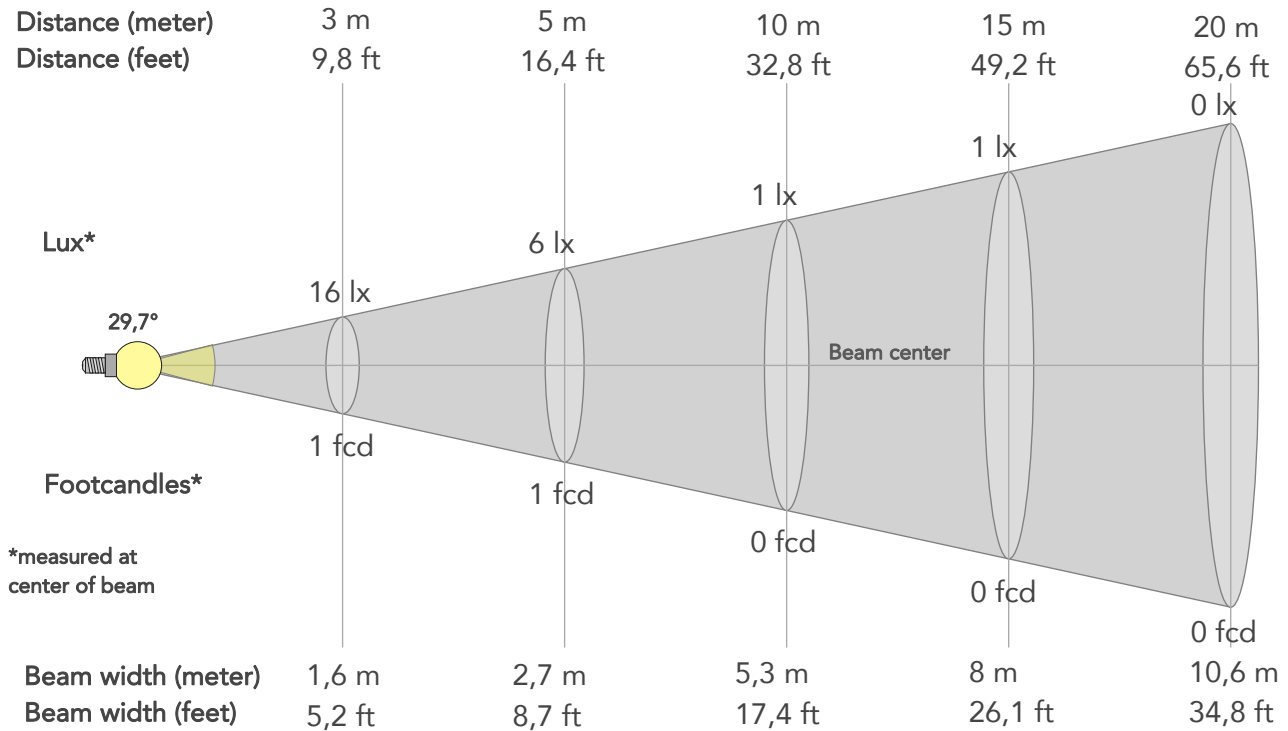
Spectra



BEAM DETAILS



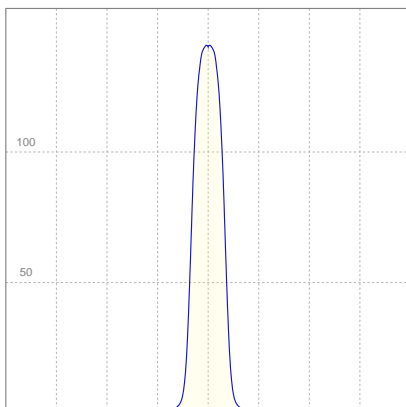
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29,7°	41,1°	50,7°	98,7%	98,0%



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	140lx	35lx	16lx	9lx	6lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	13fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,1m	2,7m	4m	5,3m	8m	10,6m	13,3m	15,9m	21,2m	26,5m
Beam wid.	1,7ft	3,5ft	5,2ft	6,9ft	8,7ft	13ft	17,4ft	26,1ft	34,8ft	43,5ft	52,2ft	69,6ft	87ft

LINEAR DISTRIBUTION DIAGRAM

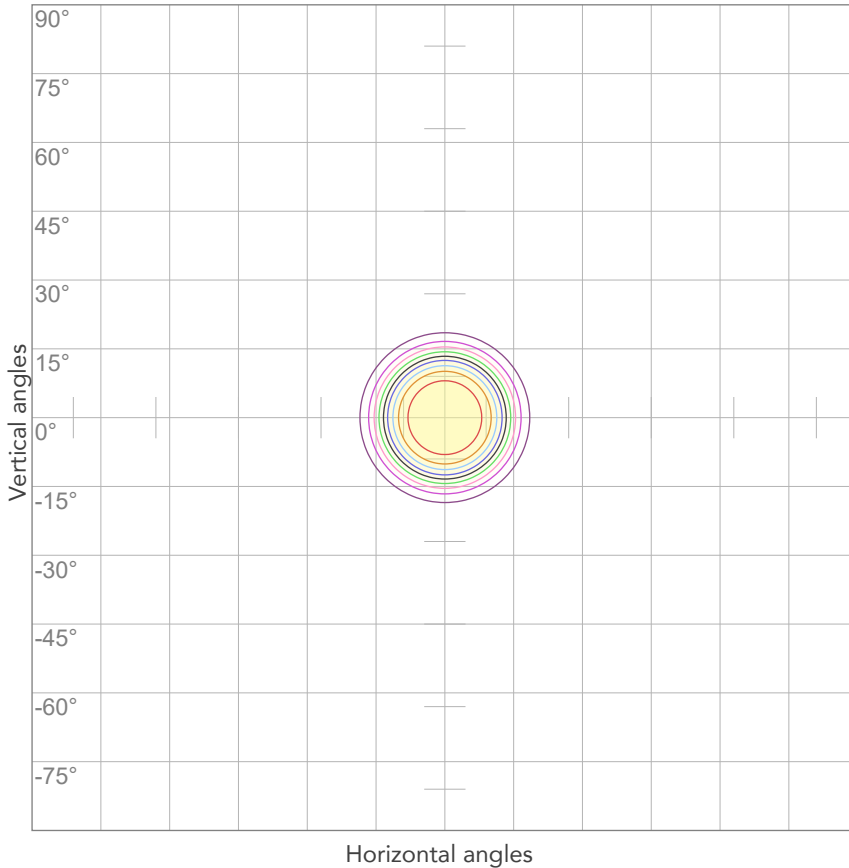


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,084A	16,5W	2lm/W

Power FC
0,88

ISO CANDELA DIAGRAM



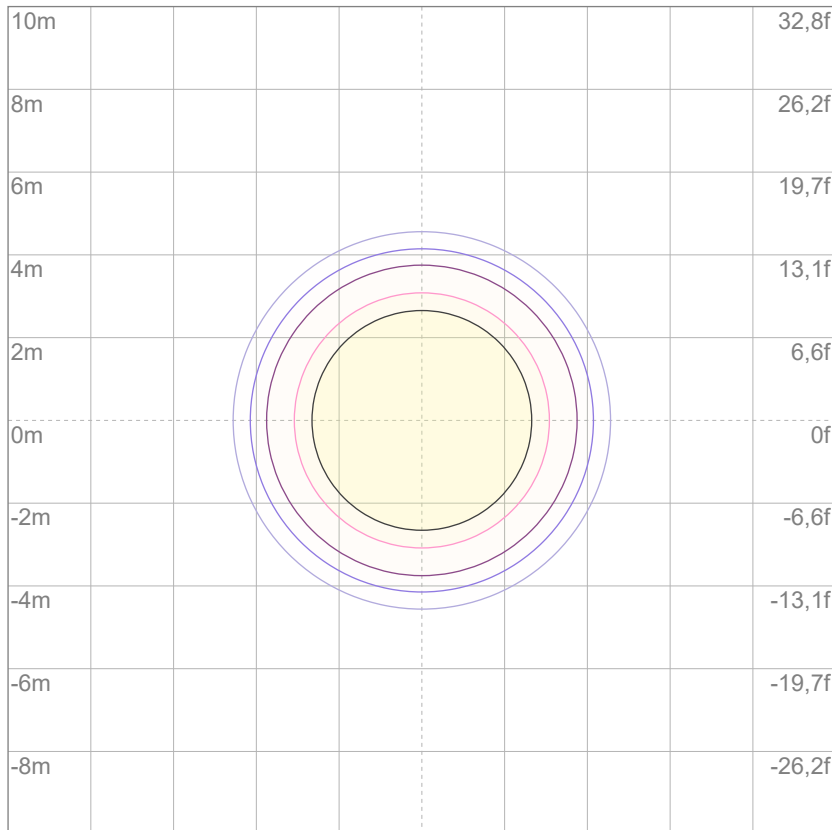
10%	14 cd
20%	28 cd
30%	42 cd
40%	56 cd
50%	70 cd
60%	84 cd
70%	98 cd
80%	112 cd

Conditions:

Number of c-planes: 2

Candela at center: 140 cd

ISO LUX DIAGRAM



3%	42,1m lx
5%	70,2m lx
10%	0,140 lx
30%	0,421 lx
50%	0,702 lx

Conditions:

Number of c-planes: 2

Lux at center: 1,40 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

279 lm

Peak candela output:

341 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

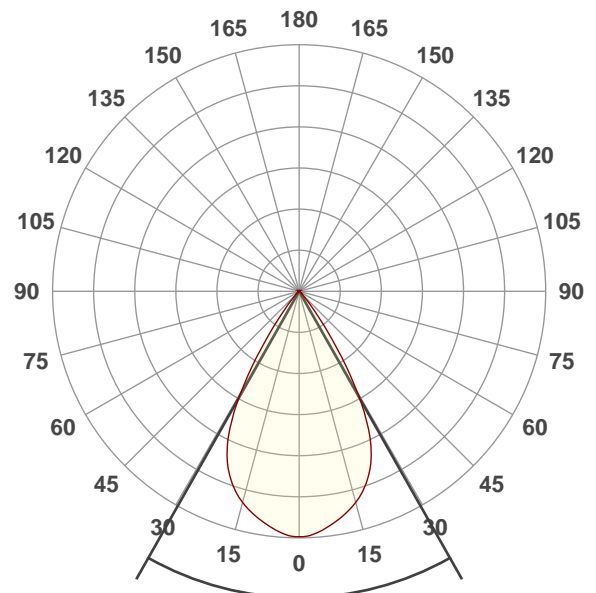
White

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:10:55

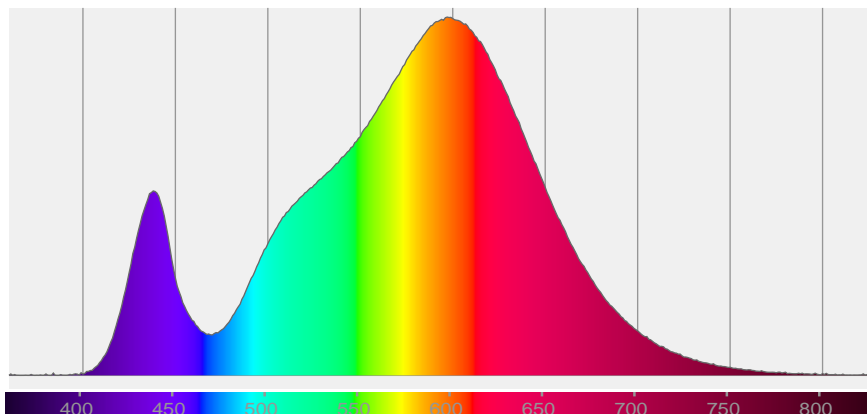


Beam angle 50%: 59°

Field angle 10%: 76,4°

Cut off angle 2.5%: 87,9°

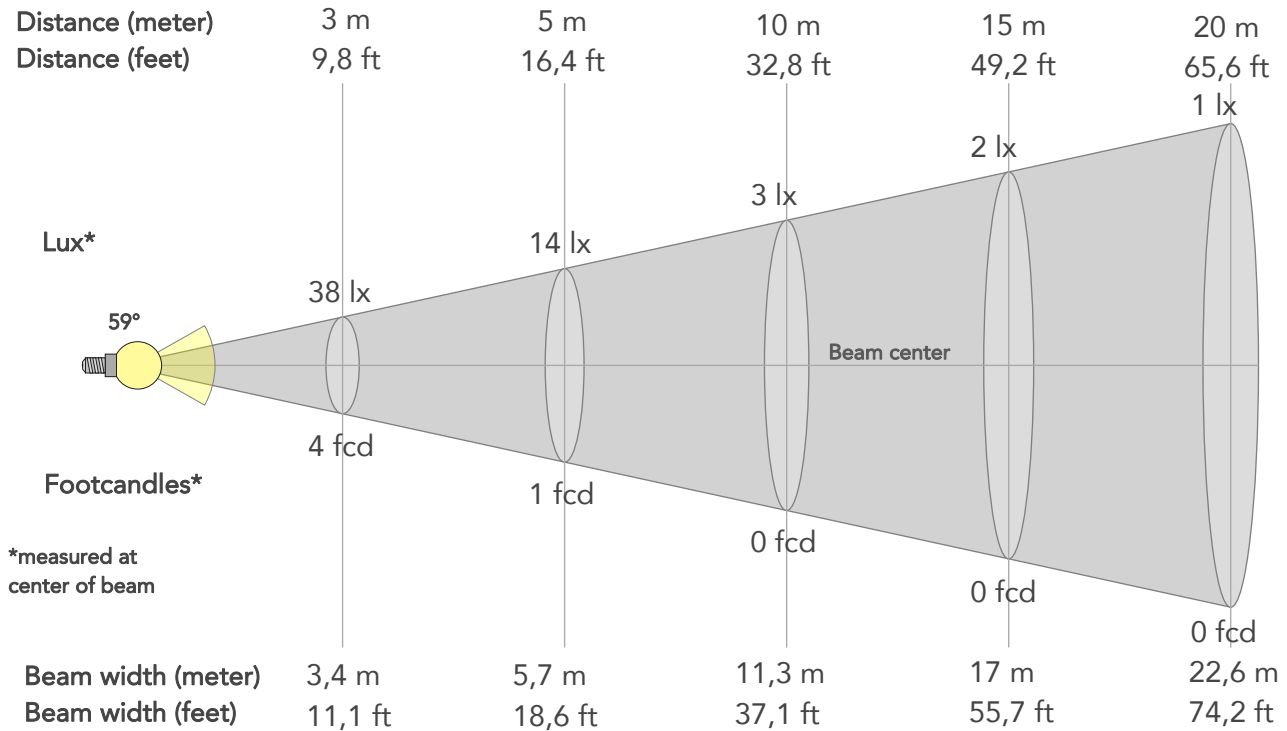
Spectra



BEAM DETAILS



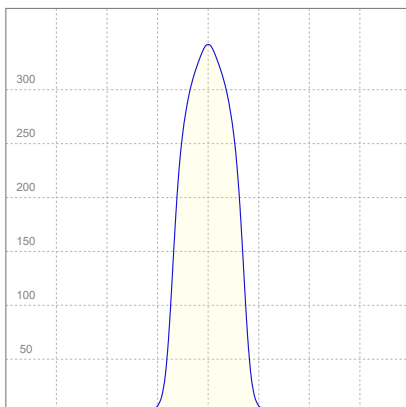
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59°	76,4°	87,9°	99,7%	98,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	341lx	85lx	38lx	21lx	14lx	6lx	3lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	32fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	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	33,9m	45,2m	56,6m
Beam wid.	3,7ft	7,5ft	11,1ft	14,8ft	18,6ft	27,8ft	37,1ft	55,7ft	74,2ft	92,8ft	111,3ft	148,4ft	185,5ft

LINEAR DISTRIBUTION DIAGRAM

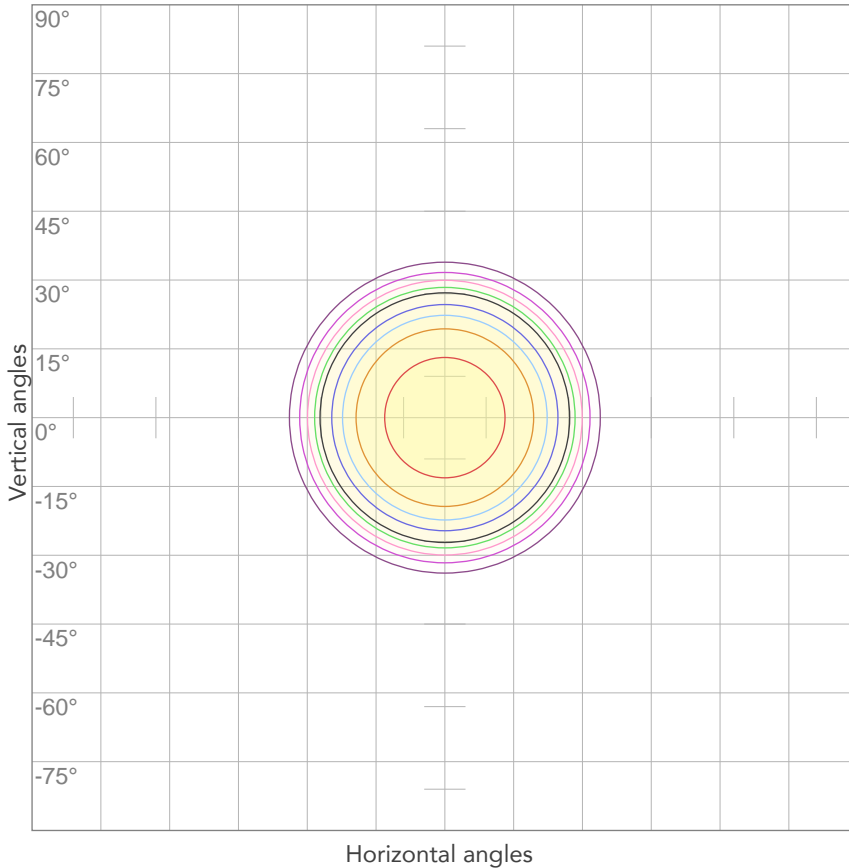


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,092A	18,4W	15lm/W

Power FC
0,89

ISO CANDELA DIAGRAM

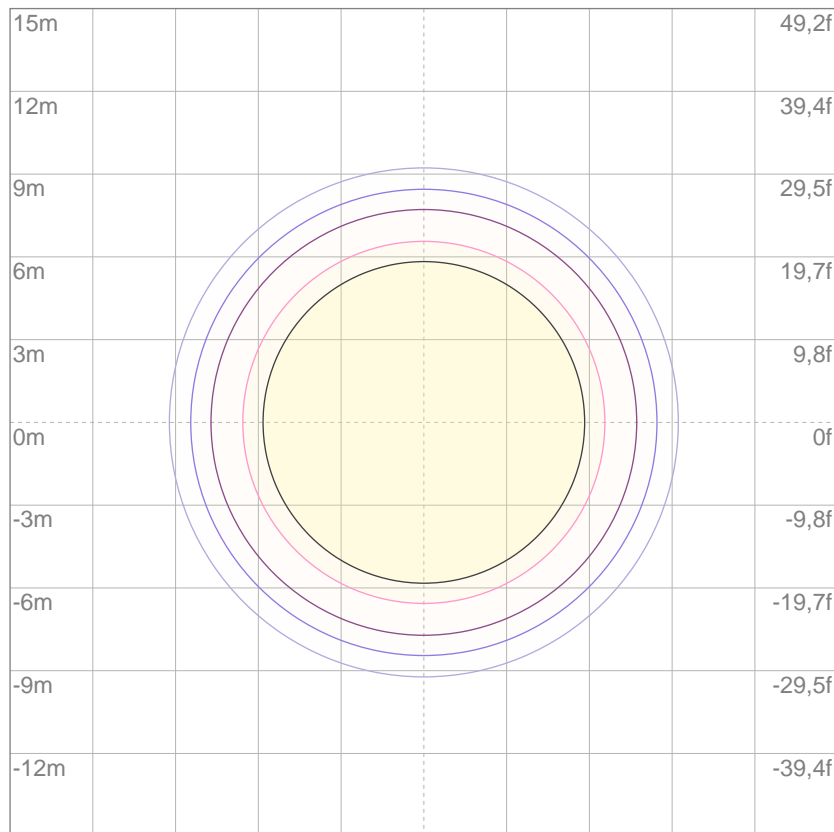


10%	34 cd
20%	68 cd
30%	102 cd
40%	136 cd
50%	171 cd
60%	205 cd
70%	239 cd
80%	273 cd

Conditions:

Number of c-planes: 2
Candela at center: 341 cd

ISO LUX DIAGRAM



3%	0,102 lx
5%	0,171 lx
10%	0,341 lx
30%	1,02 lx
50%	1,71 lx

Conditions:

Number of c-planes: 2
Lux at center: 3,41 lx

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



Total lumen output:

213 lm

Peak candela output:

838 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

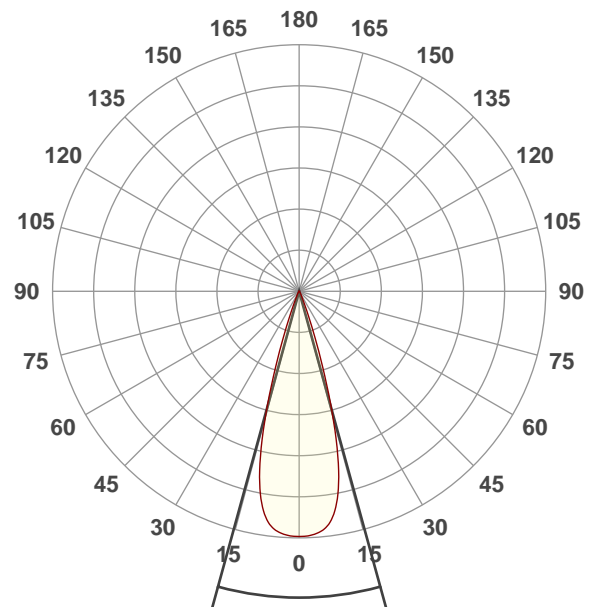
White

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:22:39

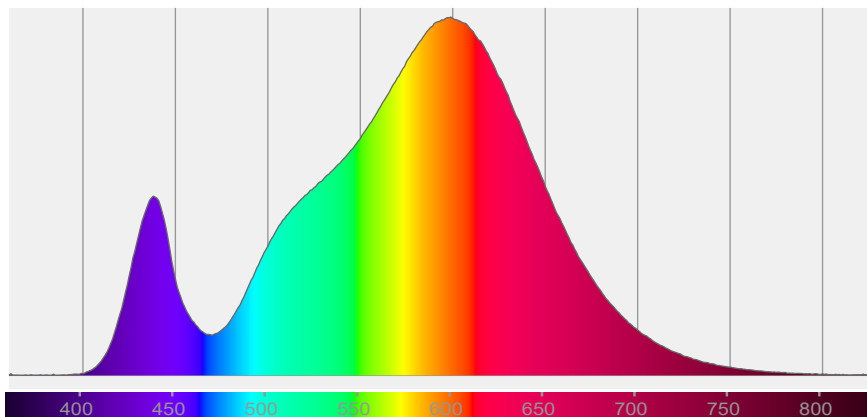


Beam angle 50%: 30,7°

Field angle 10%: 42°

Cut off angle 2.5%: 51,8°

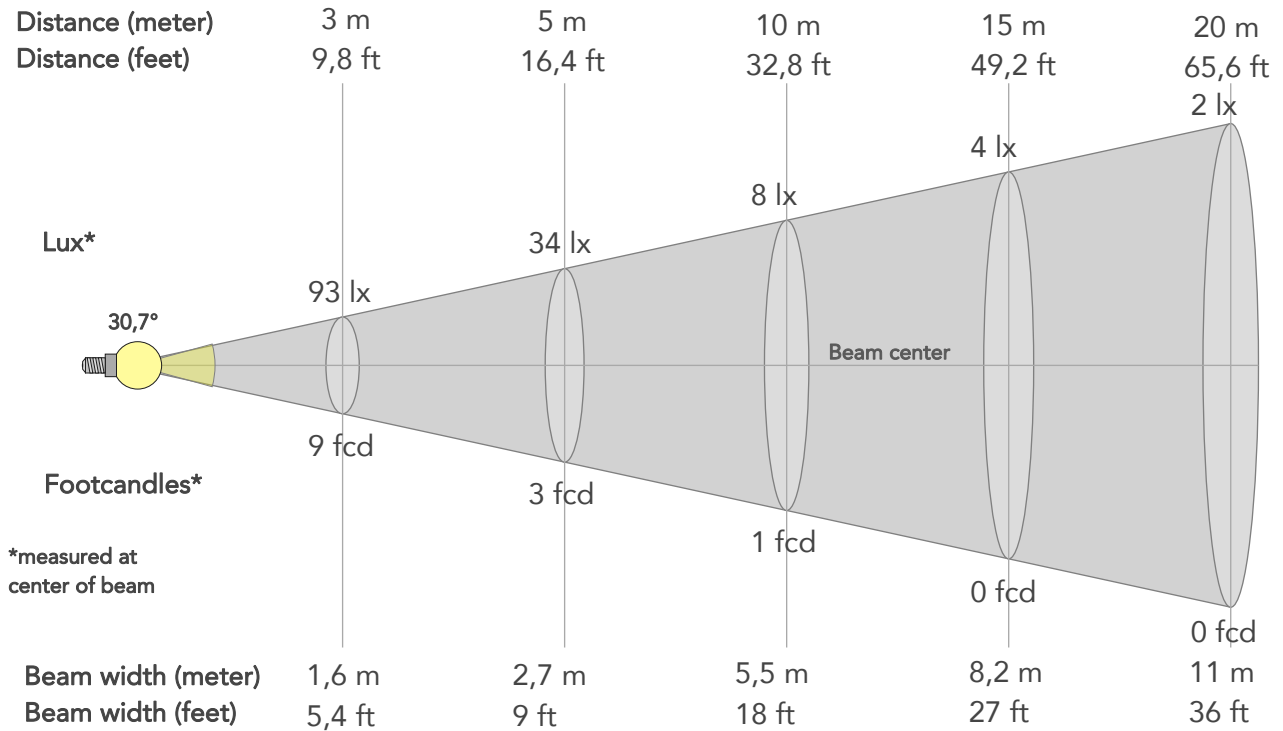
Spectra



BEAM DETAILS



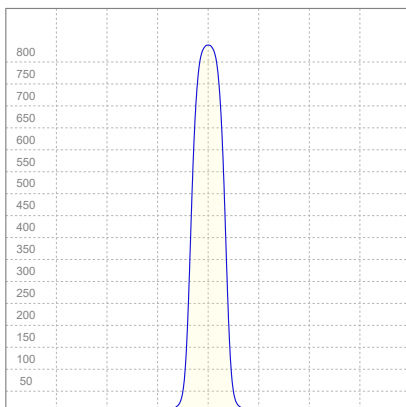
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,7°	42°	51,8°	99,7%	99,2%



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	838lx	210lx	93lx	52lx	34lx	15lx	8lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	78fcd	19fcd	9fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,5m	8,2m	11m	13,7m	16,5m	22m	27,5m
Beam wid.	1,8ft	3,6ft	5,4ft	7,2ft	9ft	13,5ft	18ft	27ft	36ft	45,1ft	54,1ft	72,1ft	90,1ft

LINEAR DISTRIBUTION DIAGRAM

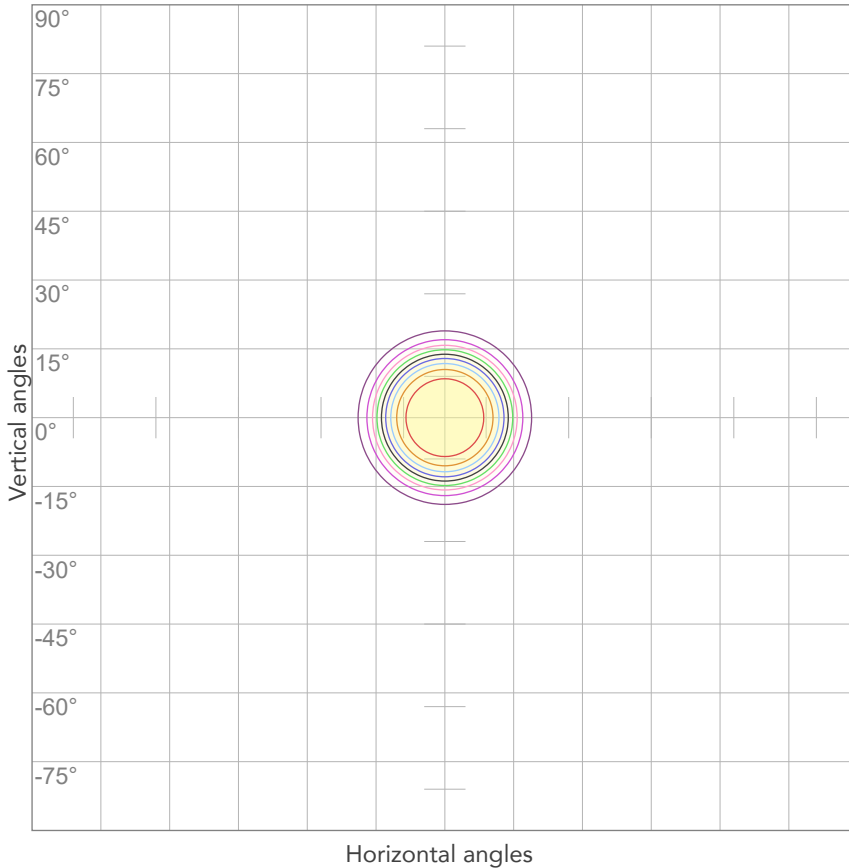


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,092A	18,3W	12lm/W

Power FC
0,89

ISO CANDELA DIAGRAM



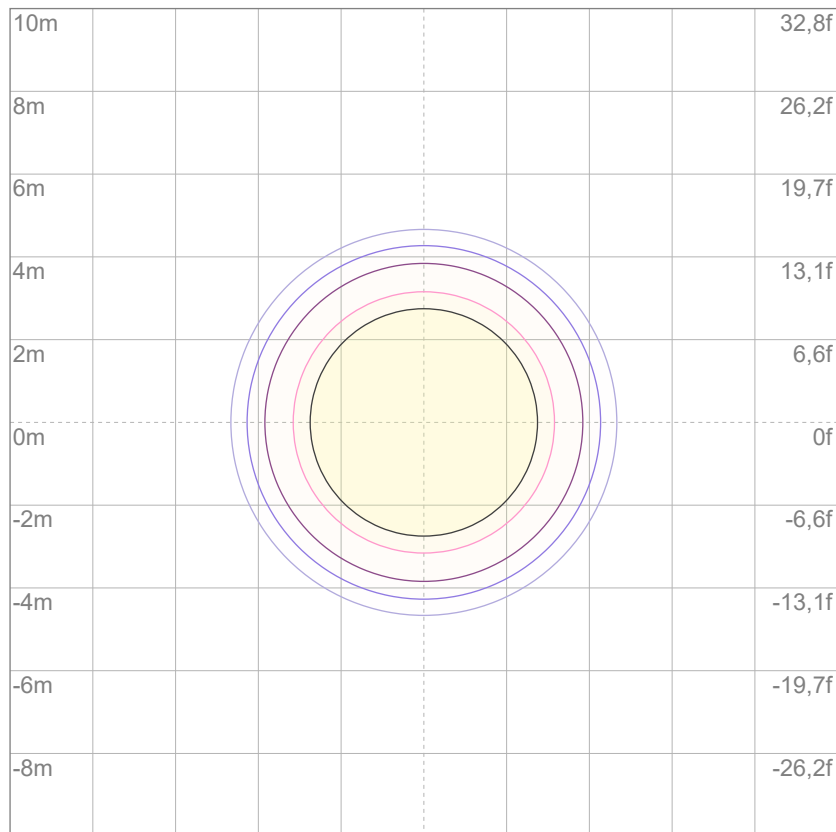
10%	84 cd
20%	168 cd
30%	251 cd
40%	335 cd
50%	419 cd
60%	503 cd
70%	587 cd
80%	671 cd

Conditions:

Number of c-planes: 2

Candela at center: 838 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,251 lx
5%	0,419 lx
10%	0,838 lx
30%	2,51 lx
50%	4,19 lx

Conditions:

Number of c-planes: 2

Lux at center: 8,38 lx

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



Total lumen output:

293 lm

Peak candela output:

356 cd

Light quality:

CRI: 92,7

Color temperature:

2856 K

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

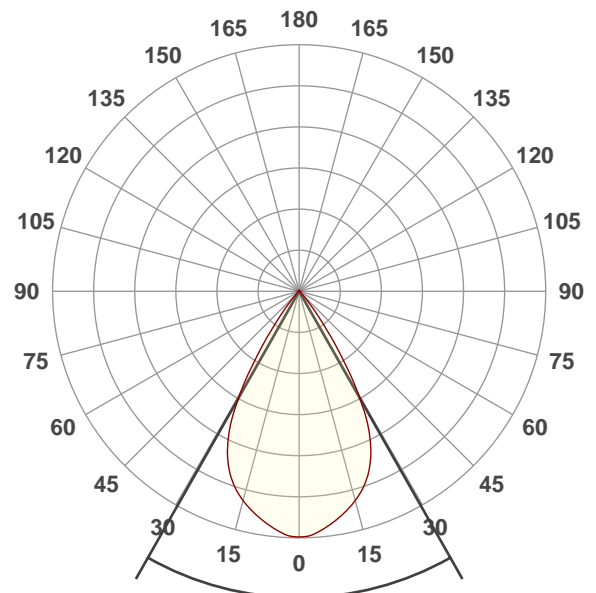
2800K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:49:55

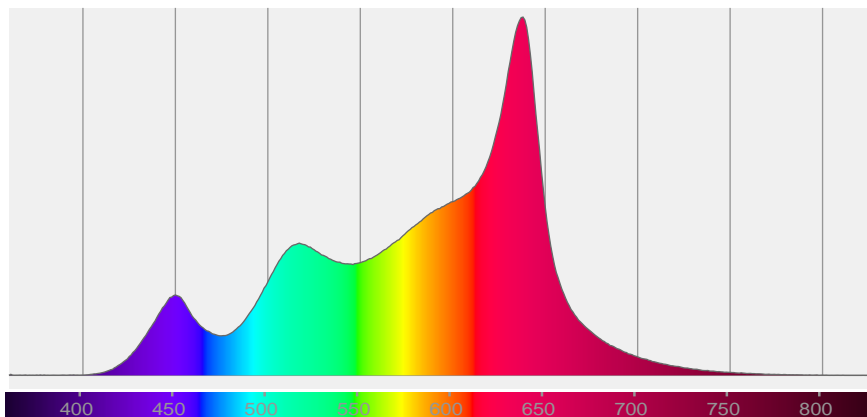


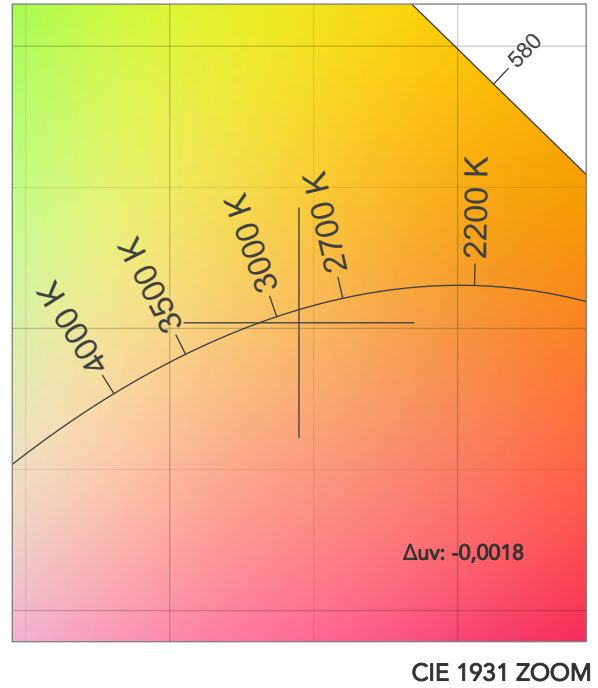
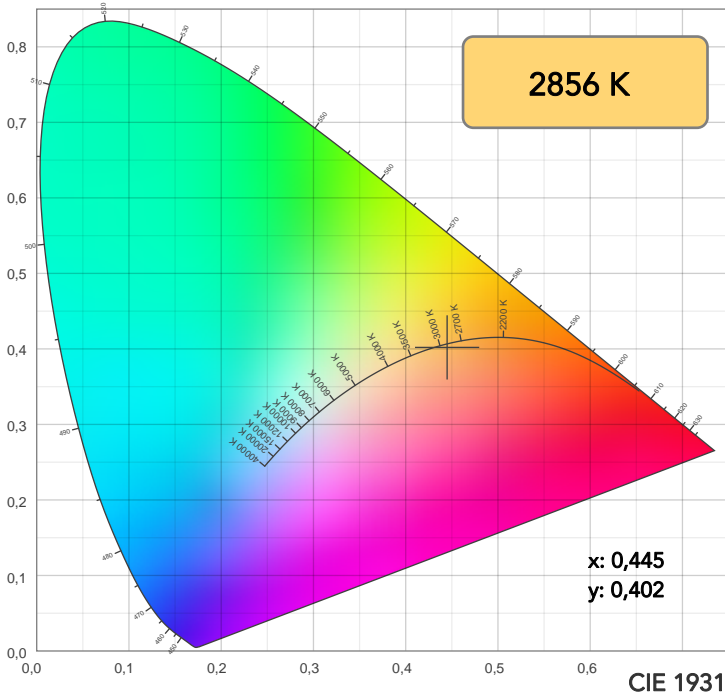
Beam angle 50%: 59,2°

Field angle 10%: 77,6°

Cut off angle 2.5%: 89,2°

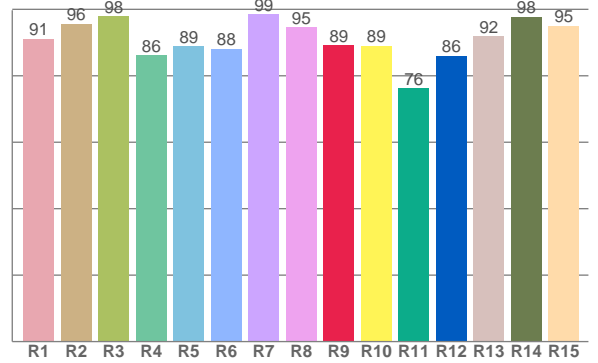
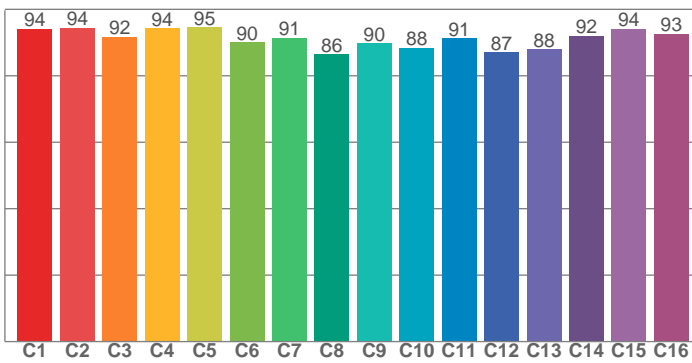
Spectra





TM30: 91,7

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
91,2	95,7	98,0	86,2	88,9	88,2	98,5	94,7	89,2	89,0	76,3	86,1	91,8	97,7	95,1

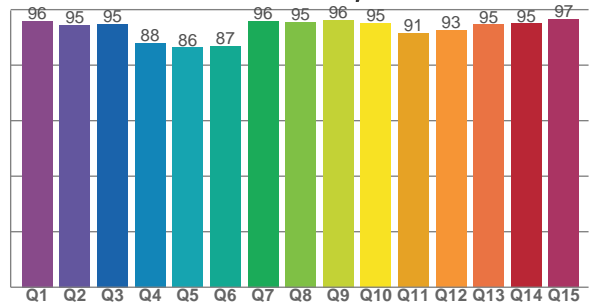
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	94,5	91,7	94,3	94,6	90,1	91,5	86,5	89,8	88,4	91,3	87,0	88,0	92,0	94,2	92,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,9	94,5	94,8	87,9	86,3	86,8	96,0	95,5	96,3	95,2	91,5	92,7	94,7	95,0	96,5

CQS: 92,2



COLOR PARAMETERS

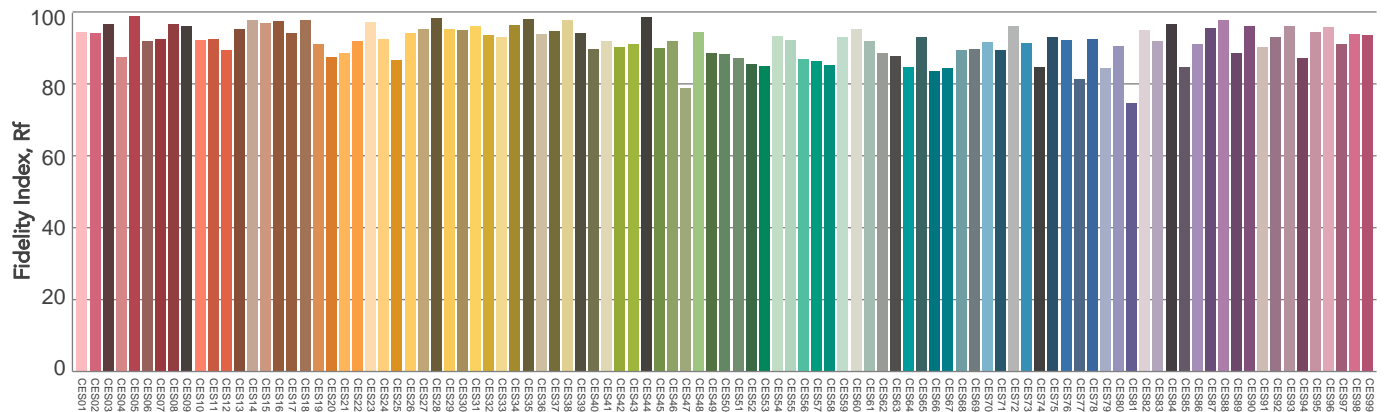
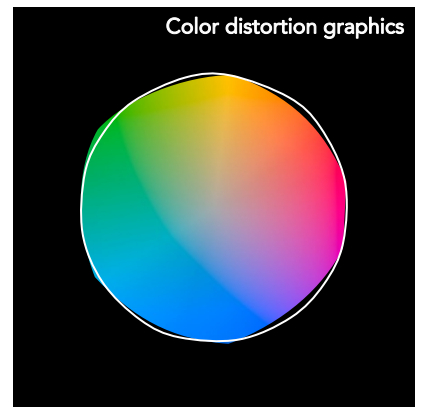
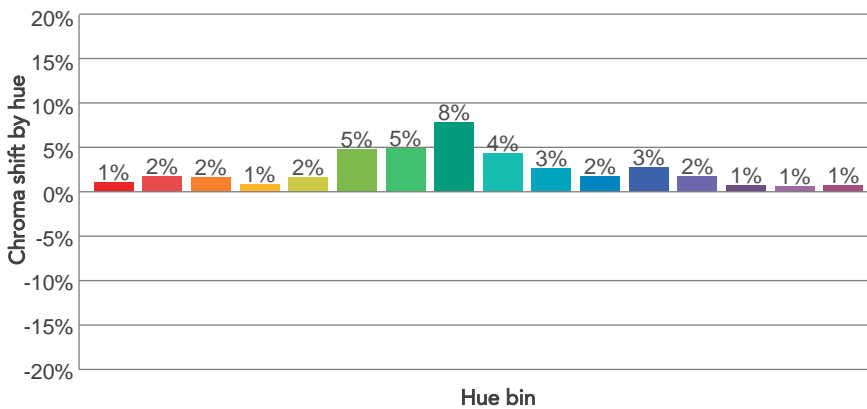
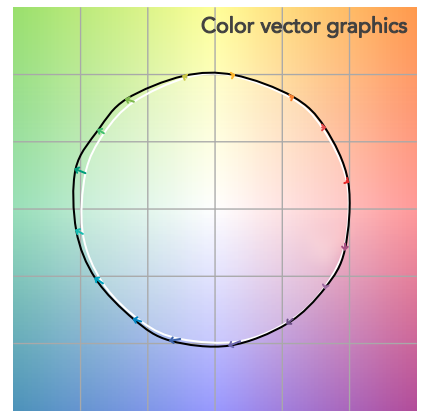
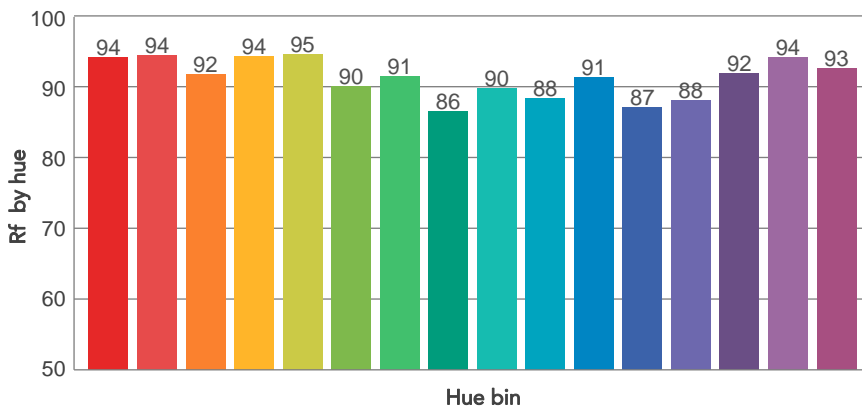
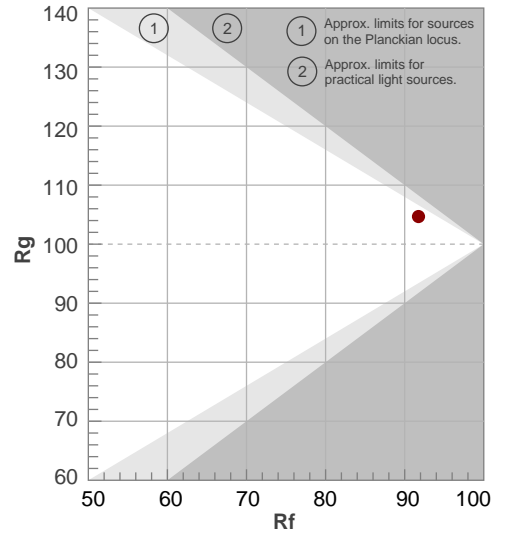
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2856 K	92,7	89,2	91,7	104,7	92,2	83	0,445	0,402	-0,0018

TM30 DETAILS

Rf 91,7
Fidelity index Rf

Rg 104,7
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	94	2%	-1%
3	92	2%	-1%
4	94	1%	-2%
5	95	2%	2%
6	90	5%	4%
7	91	5%	0%
8	86	8%	-2%
9	90	4%	-4%
10	88	3%	-6%
11	91	2%	-5%
12	87	3%	-7%
13	88	2%	-8%
14	92	1%	-5%
15	94	1%	-2%
16	93	1%	-4%

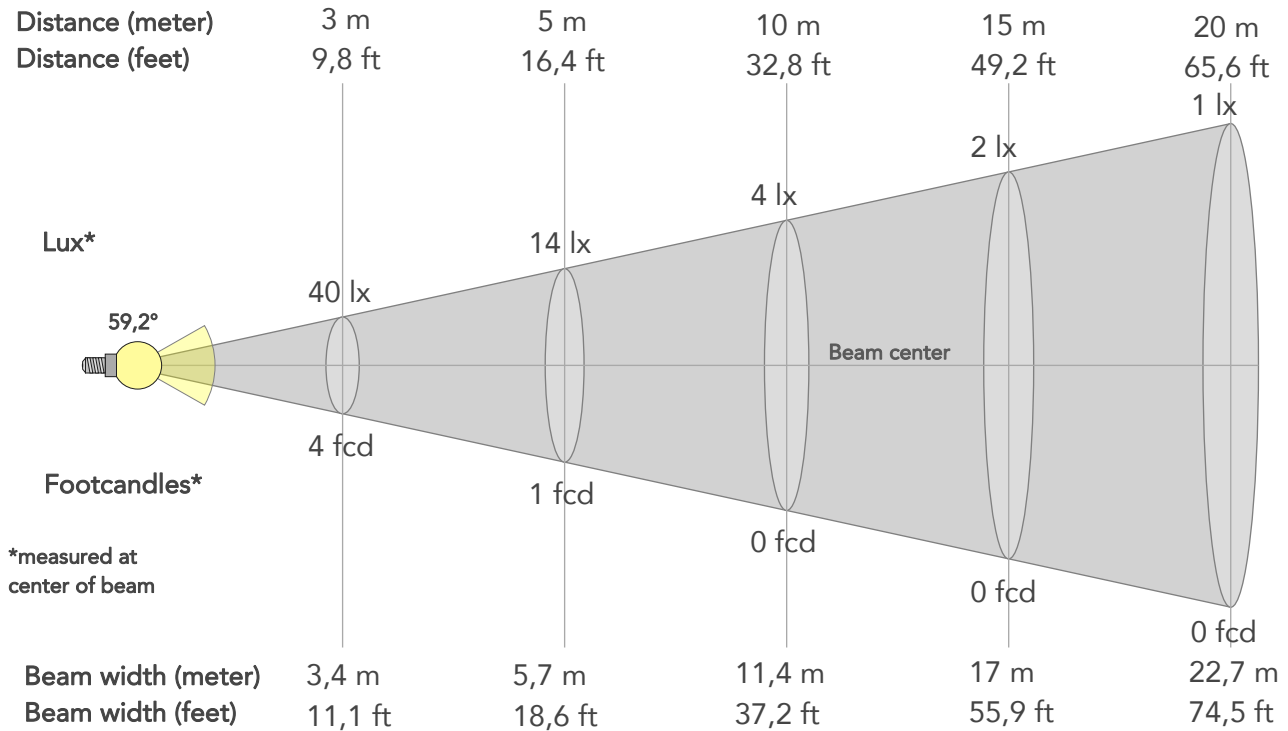


Color Evaluation Sample

BEAM DETAILS



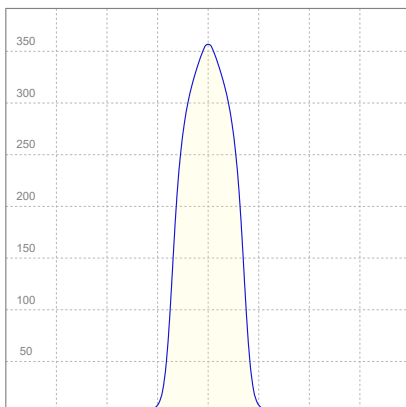
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,2°	77,6°	89,2°	99,7%	98,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	356lx	89lx	40lx	22lx	14lx	6lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	33fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,5m	5,7m	8,5m	11,4m	17m	22,7m	28,4m	34,1m	45,4m	56,8m
Beam wid.	3,7ft	7,5ft	11,1ft	14,9ft	18,6ft	27,9ft	37,2ft	55,9ft	74,5ft	93,1ft	111,7ft	148,9ft	186,2ft

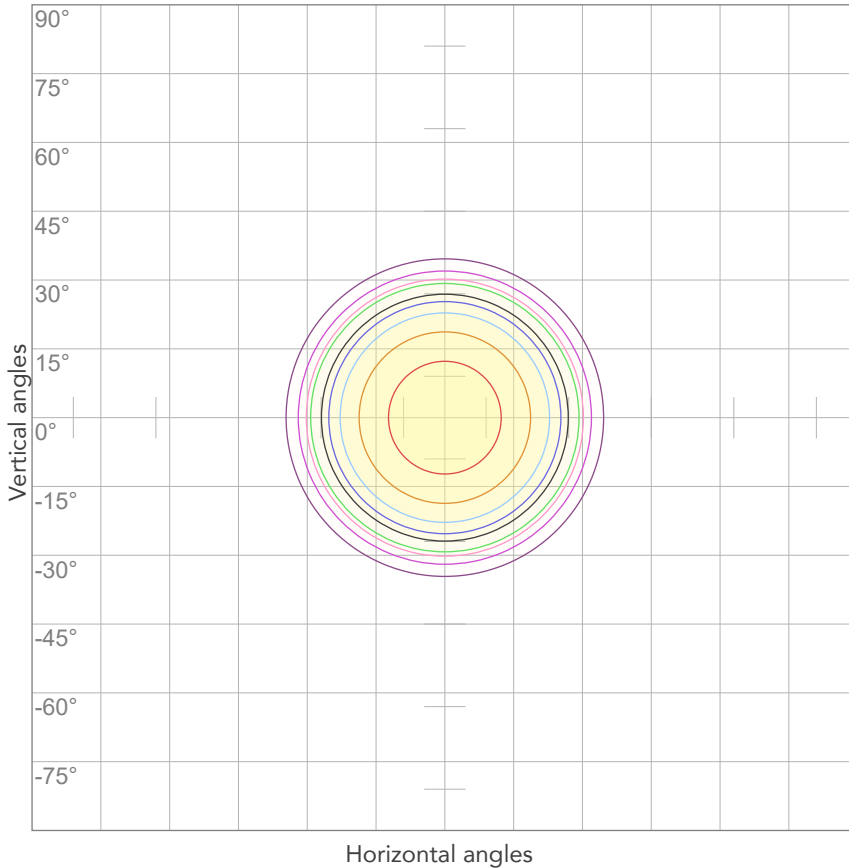
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,110A	22,4W	13lm/W

ISO CANDELA DIAGRAM



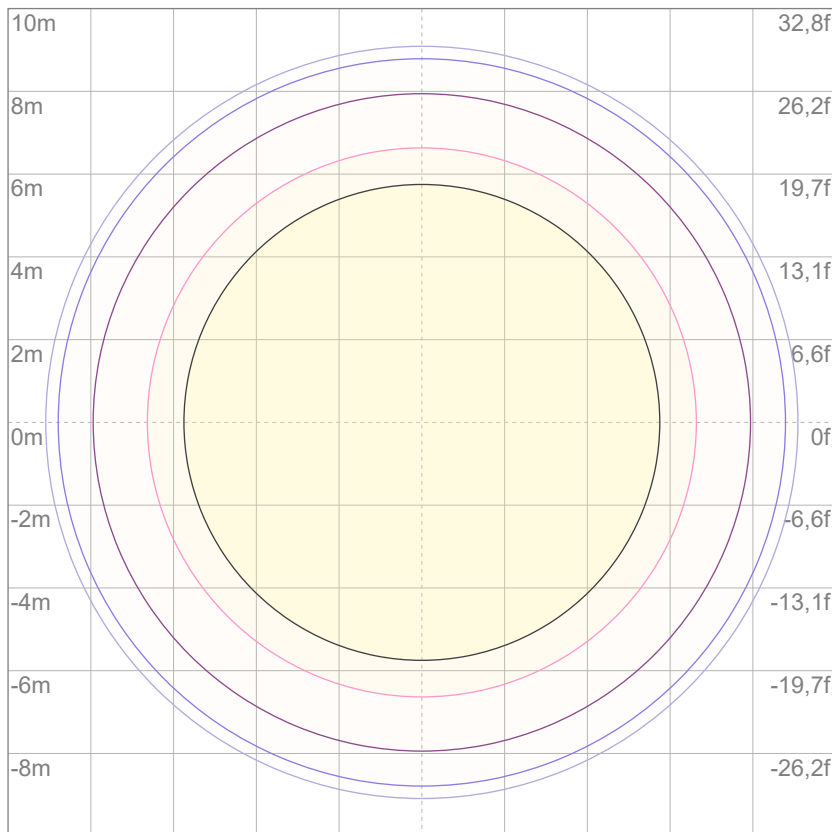
10%	36 cd
20%	71 cd
30%	107 cd
40%	142 cd
50%	178 cd
60%	214 cd
70%	249 cd
80%	285 cd

Conditions:

Number of c-planes: 2

Candela at center: 356 cd

ISO LUX DIAGRAM



3%	0,107 lx
5%	0,178 lx
10%	0,356 lx
30%	1,07 lx
50%	1,78 lx

Conditions:

Number of c-planes: 2

Lux at center: 3,56 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

222 lm

Peak candela output:

894 cd

Light quality:

CRI: 92,6

Color temperature:

2816 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

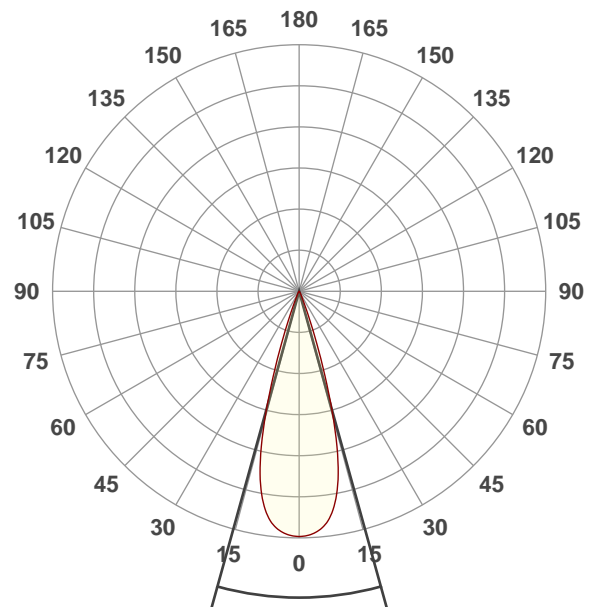
2800K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:38:35

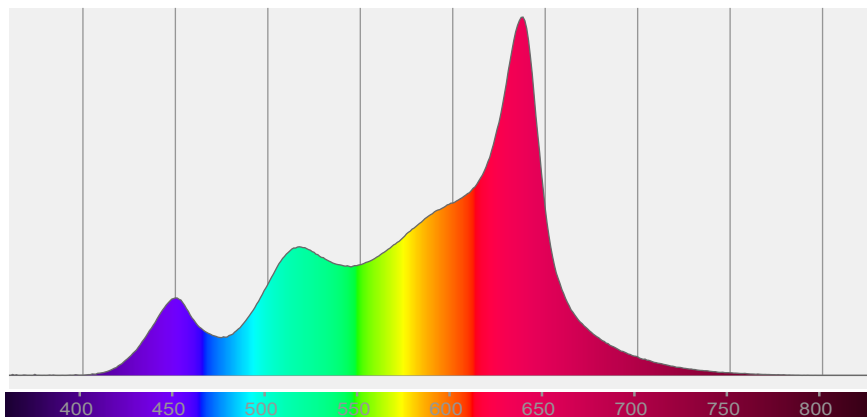


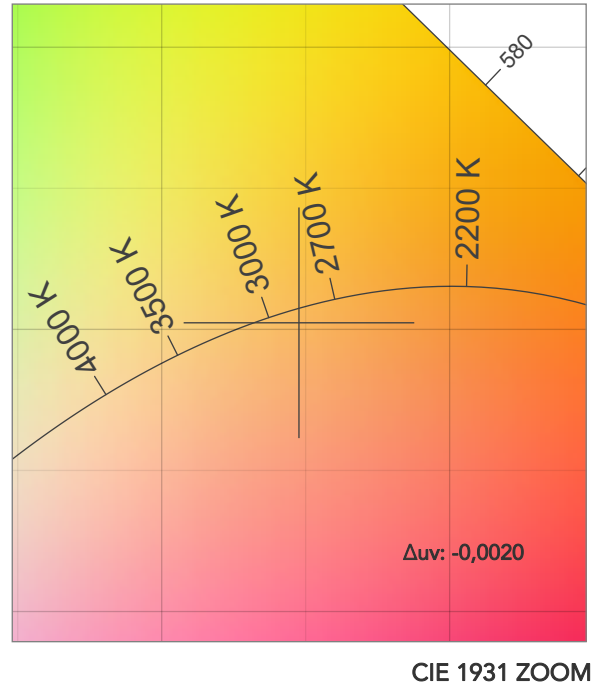
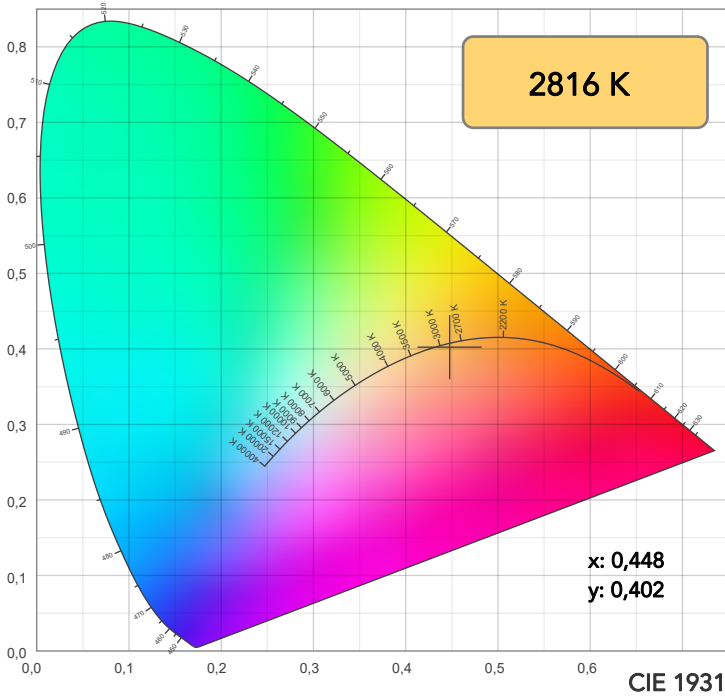
Beam angle 50%: 30,9°

Field angle 10%: 42,1°

Cut off angle 2.5%: 50,8°

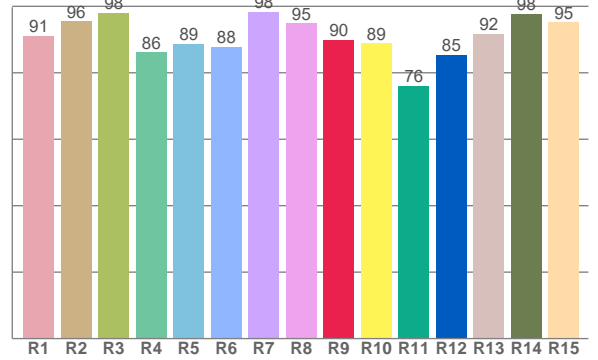
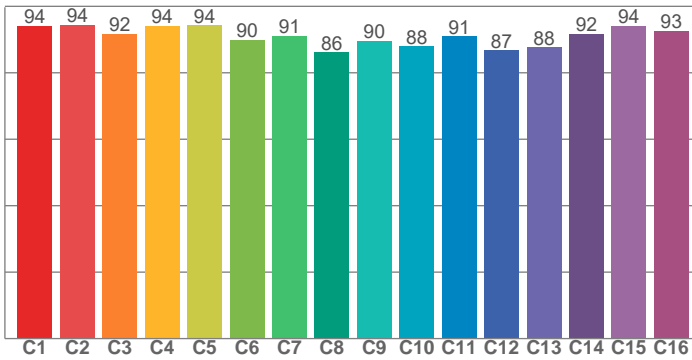
Spectra





TM30: 91,6

CRI: 92,6 (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
91,1	95,6	98,0	86,2	88,8	87,9	98,4	95,0	89,9	88,8	76,1	85,4	91,7	97,8	95,2

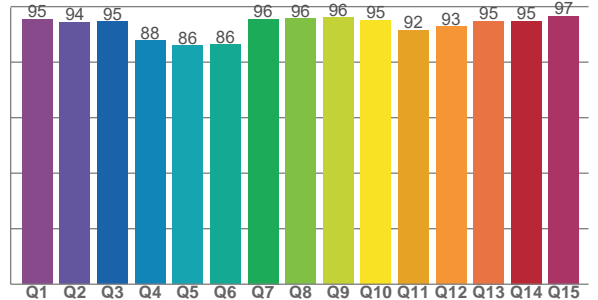
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	94,5	91,7	94,2	94,3	89,9	91,2	86,2	89,5	88,0	91,0	86,7	87,6	91,7	94,1	92,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,4	94,3	94,7	87,7	86,0	86,4	95,6	95,6	96,1	95,2	91,6	92,8	94,8	94,8	96,5

CQS: 92,1



COLOR PARAMETERS

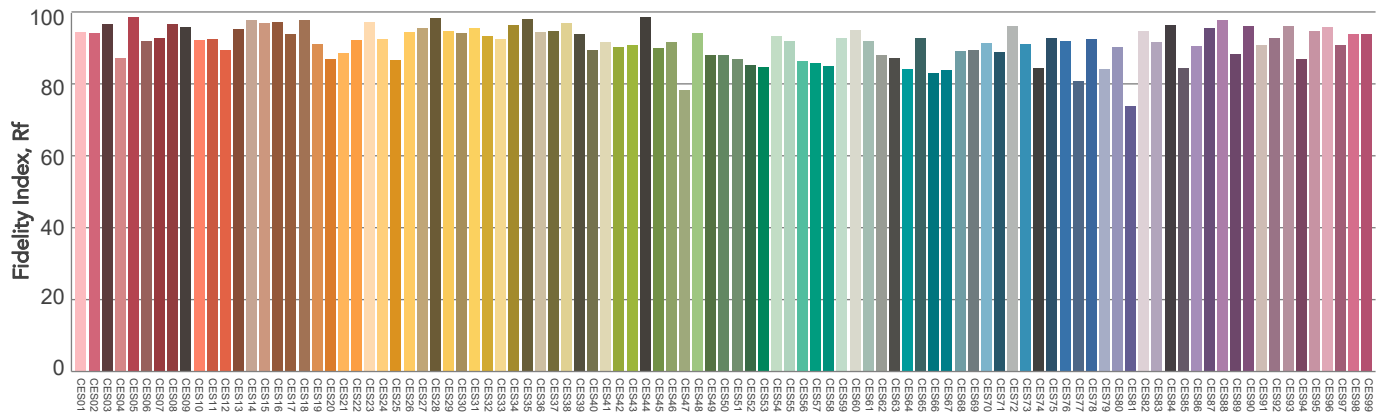
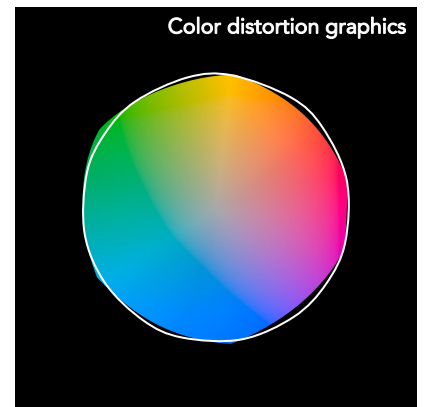
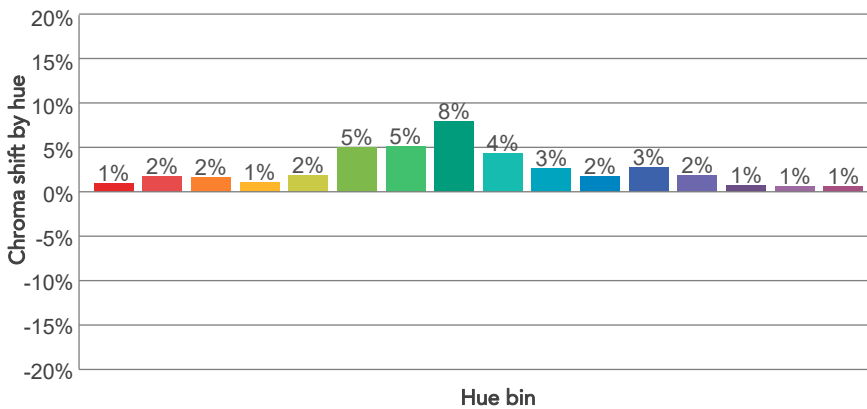
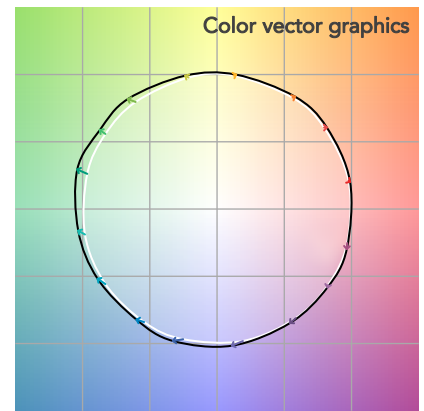
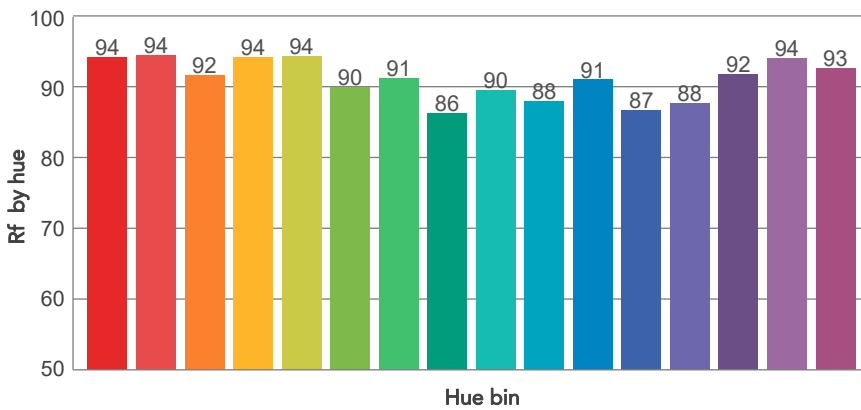
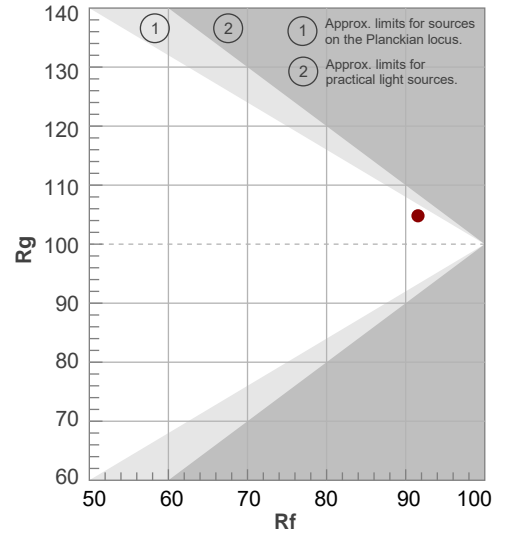
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2816 K	92,6	89,9	91,6	104,8	92,1	83	0,448	0,402	-0,0020

TM30 DETAILS

Rf 91,6
Fidelity index Rf

Rg 104,8
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	94	2%	-1%
3	92	2%	-1%
4	94	1%	-2%
5	94	2%	2%
6	90	5%	4%
7	91	5%	0%
8	86	8%	-2%
9	90	4%	-4%
10	88	3%	-7%
11	91	2%	-6%
12	87	3%	-7%
13	88	2%	-9%
14	92	1%	-5%
15	94	1%	-2%
16	93	1%	-4%

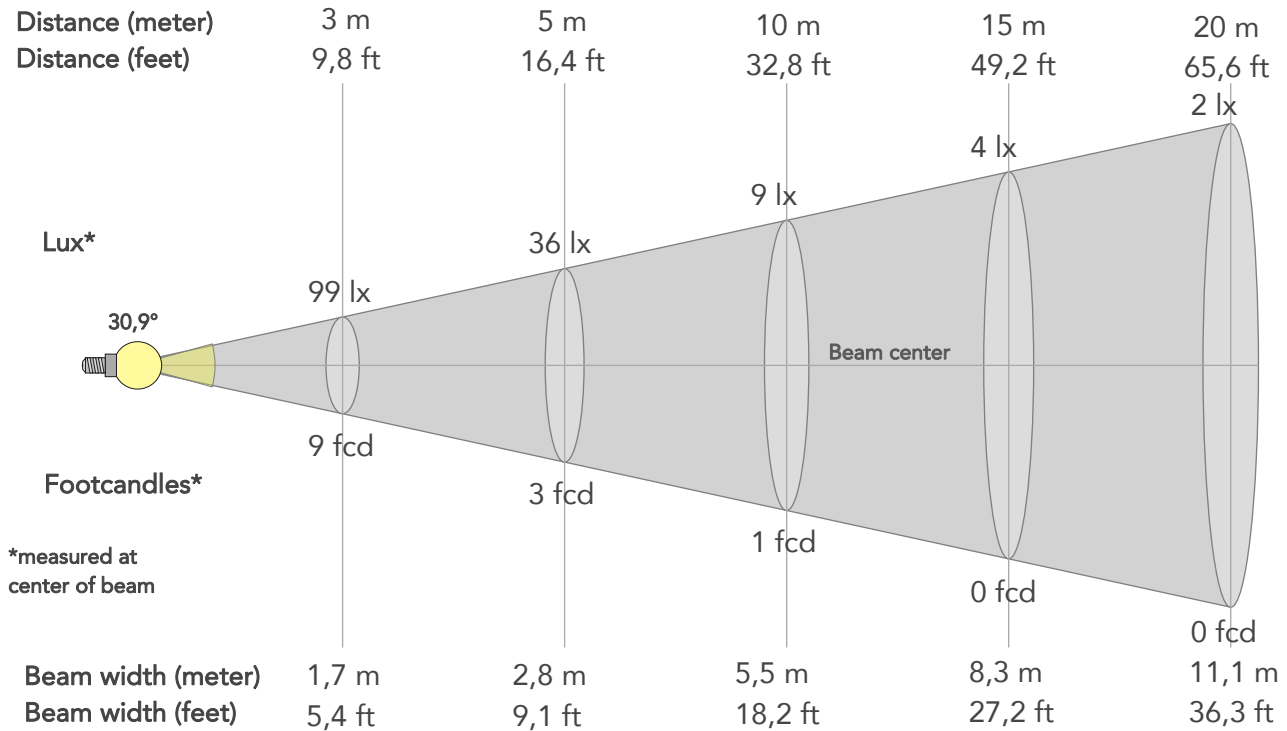


Color Evaluation Sample

BEAM DETAILS



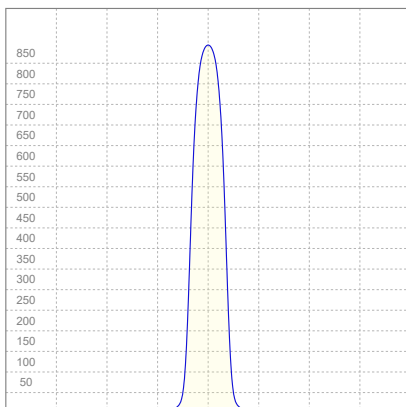
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,9°	42,1°	50,8°	100,0%	99,9%



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	894lx	223lx	99lx	56lx	36lx	16lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	83fcd	21fcd	9fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,2m	5,5m	8,3m	11,1m	13,8m	16,6m	22,1m	27,7m
Beam wid.	1,8ft	3,7ft	5,4ft	7,3ft	9,1ft	13,6ft	18,2ft	27,2ft	36,3ft	45,4ft	54,5ft	72,6ft	90,8ft

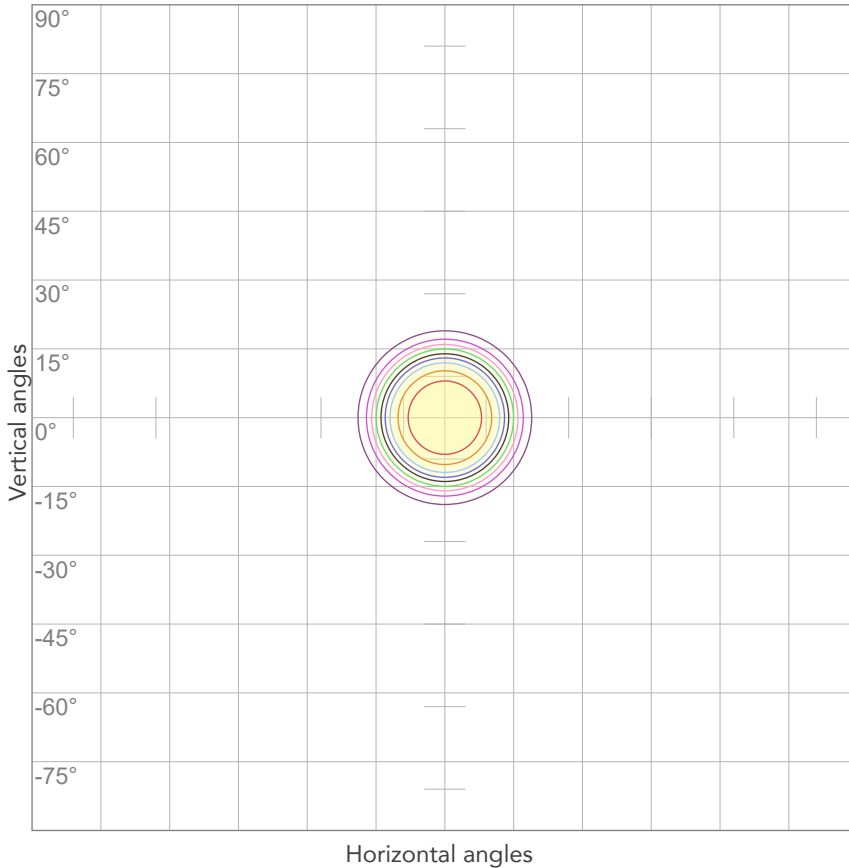
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,110A	22,5W	10lm/W

ISO CANDELA DIAGRAM



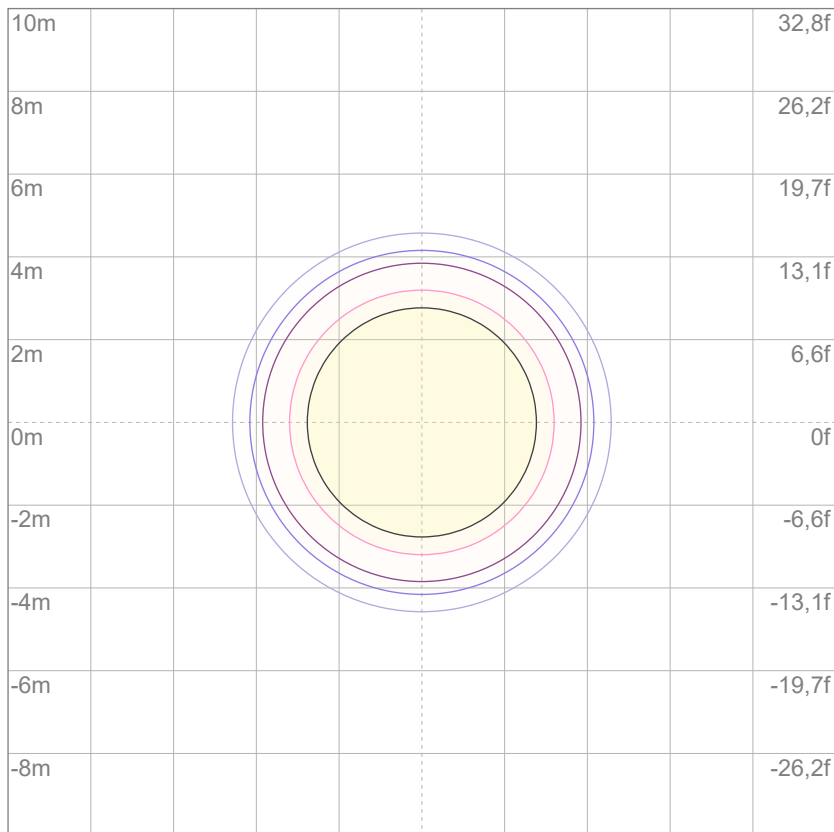
10%	89 cd
20%	179 cd
30%	268 cd
40%	357 cd
50%	447 cd
60%	536 cd
70%	626 cd
80%	715 cd

Conditions:

Number of c-planes: 2

Candela at center: 894 cd

ISO LUX DIAGRAM



3%	0,268 lx
5%	0,447 lx
10%	0,894 lx
30%	2,68 lx
50%	4,47 lx

Conditions:

Number of c-planes: 2

Lux at center: 8,94 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

299 lm

Peak candela output:

363 cd

Light quality:

CRI: 93,5

Color temperature:

3204 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

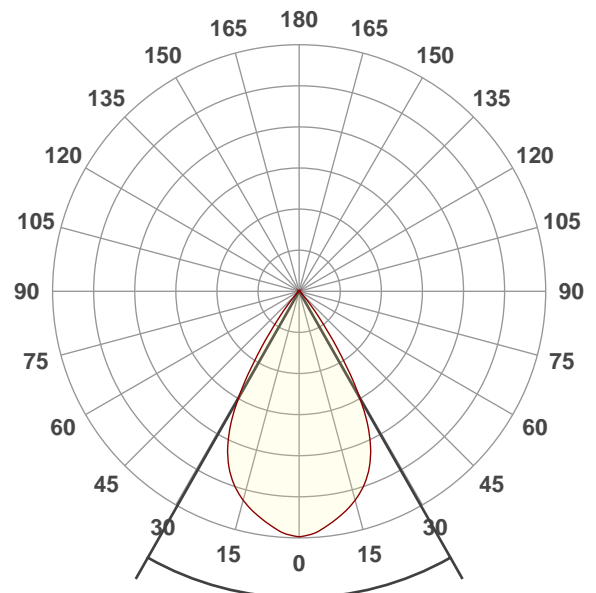
3200K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:51:27

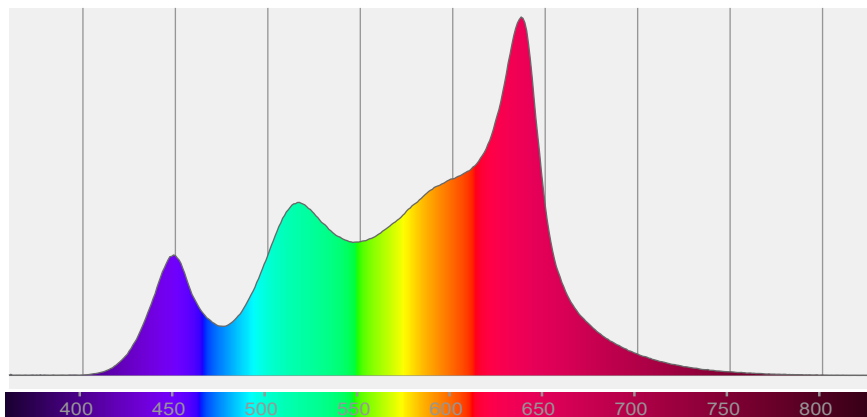


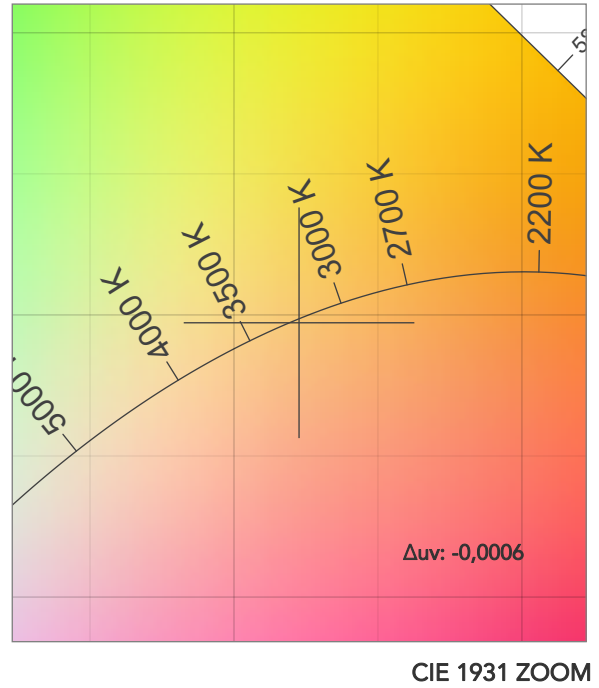
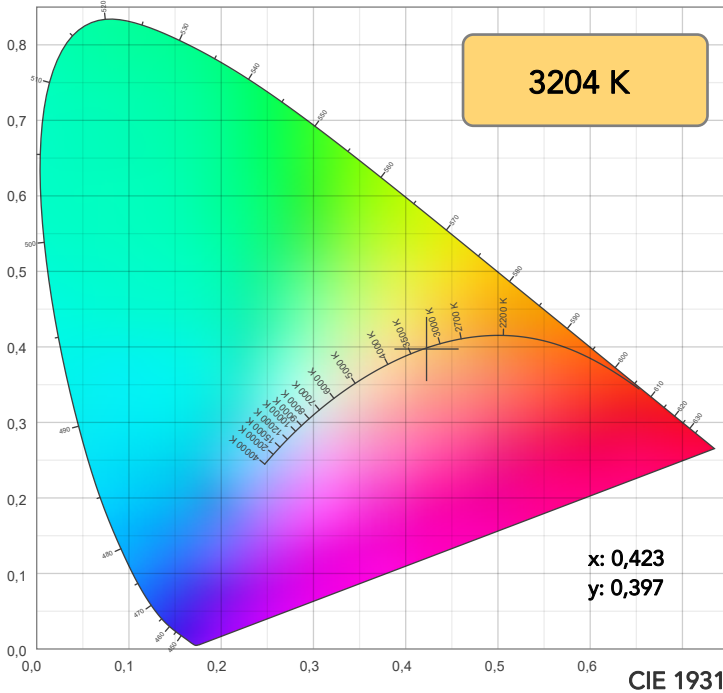
Beam angle 50%: 59,2°

Field angle 10%: 77,5°

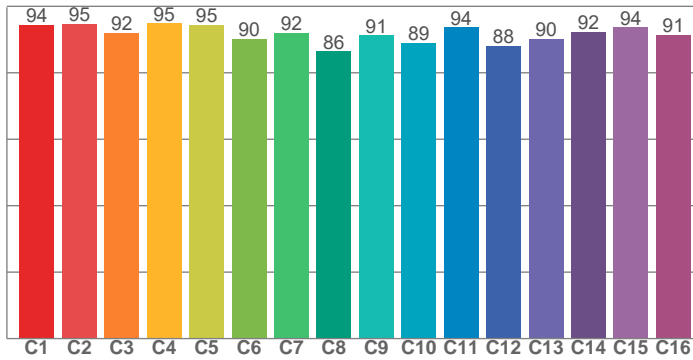
Cut off angle 2.5%: 89,6°

Spectra

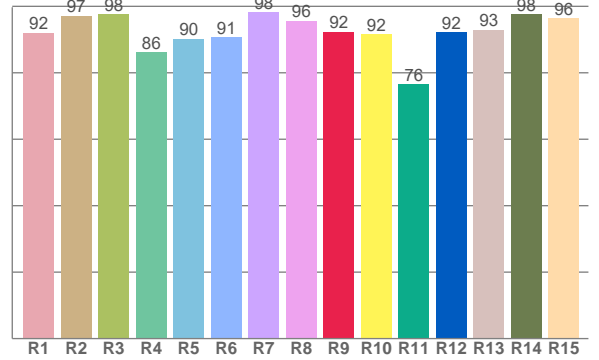




TM30: 92,3



CRI: 93,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,0	97,1	97,6	86,2	90,2	90,6	98,2	95,6	92,3	91,5	76,5	92,2	92,9	97,6	96,4

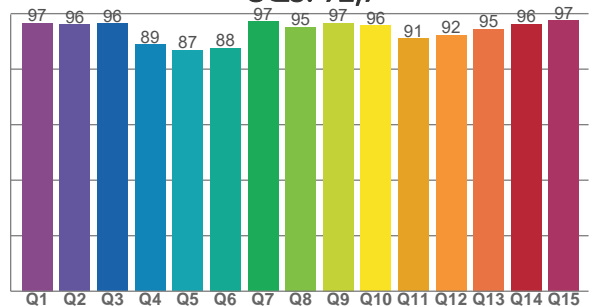
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	94,7	92,1	94,8	94,5	90,2	92,0	86,5	91,2	89,0	93,6	88,2	90,3	92,2	93,6	91,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,6	96,1	96,4	88,8	86,8	87,6	97,1	95,1	96,7	95,6	91,0	92,2	94,5	96,3	97,4

CQS: 92,7



COLOR PARAMETERS

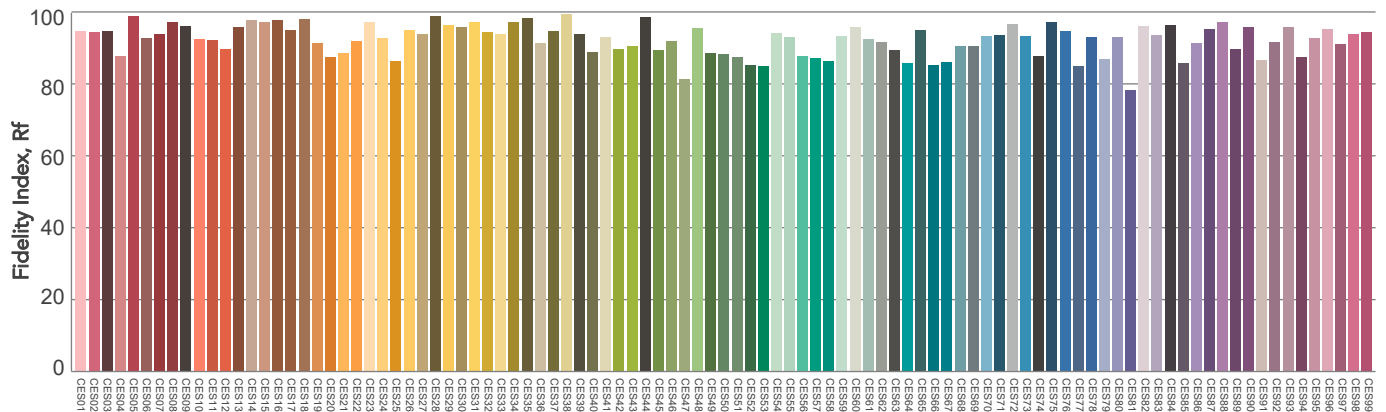
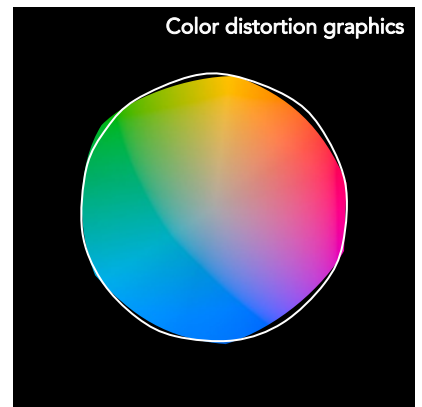
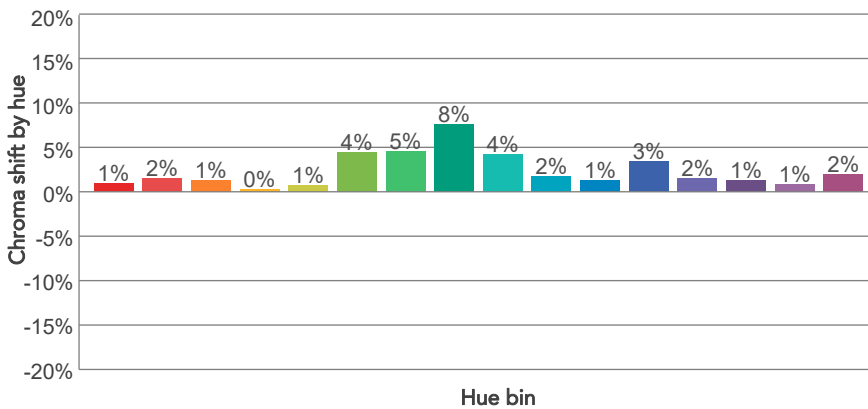
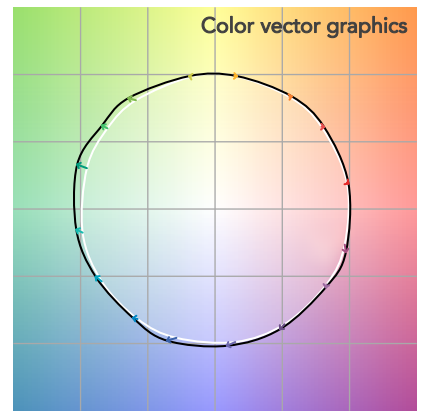
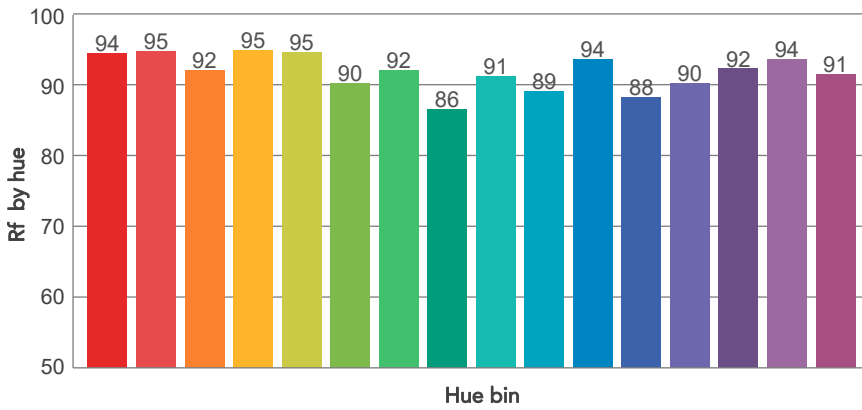
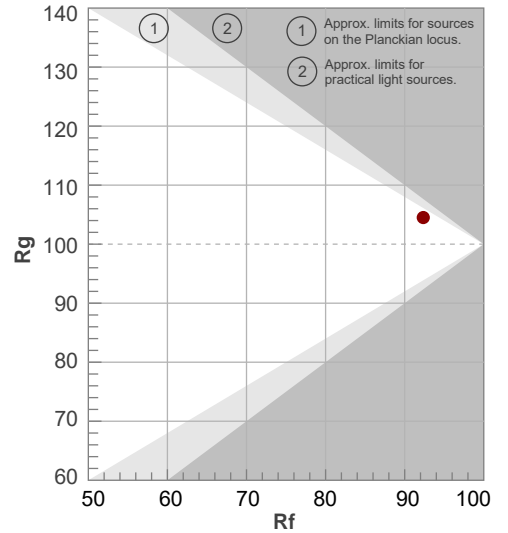
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3204 K	93,5	92,3	92,3	104,5	92,7	83	0,423	0,397	-0,0006

TM30 DETAILS

Rf 92,3
Fidelity index Rf

Rg 104,5
Gammut index

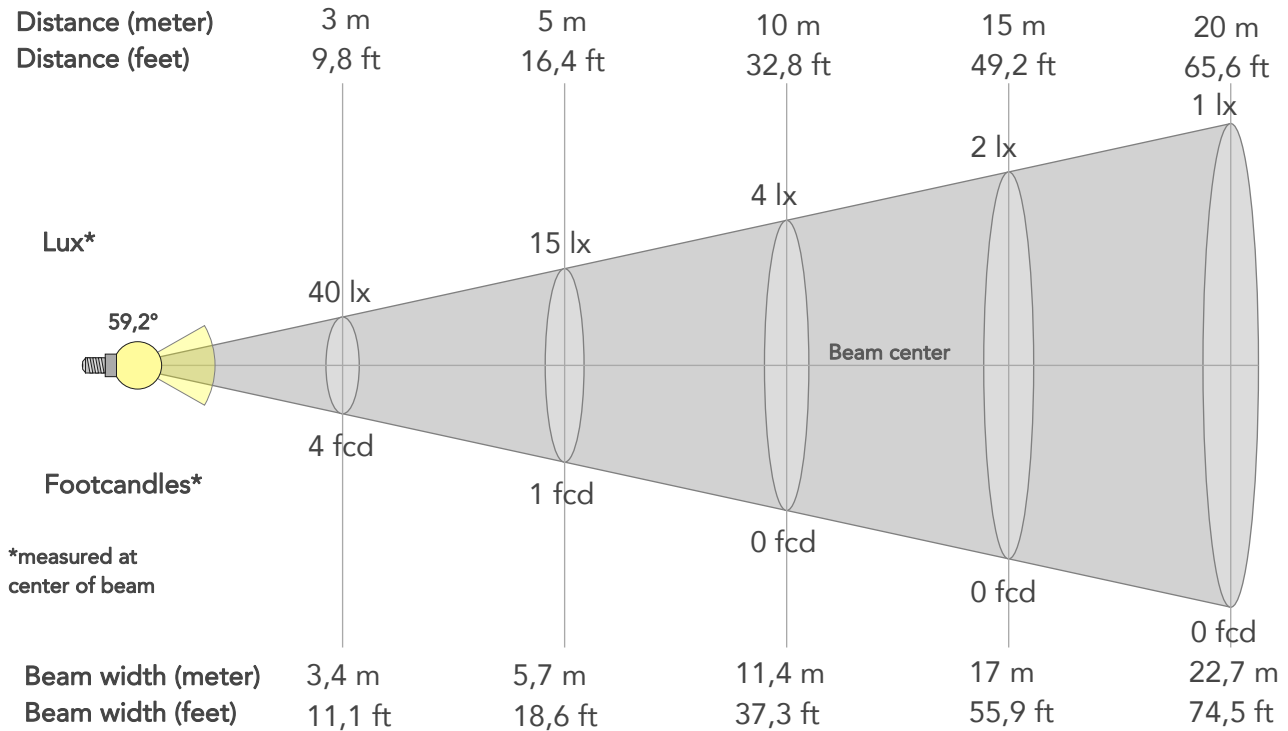
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	95	2%	-1%
3	92	1%	-1%
4	95	0%	-2%
5	95	1%	2%
6	90	4%	4%
7	92	5%	0%
8	86	8%	-1%
9	91	4%	-3%
10	89	2%	-5%
11	94	1%	-3%
12	88	3%	-6%
13	90	2%	-7%
14	92	1%	-5%
15	94	1%	-2%
16	91	2%	-5%



BEAM DETAILS



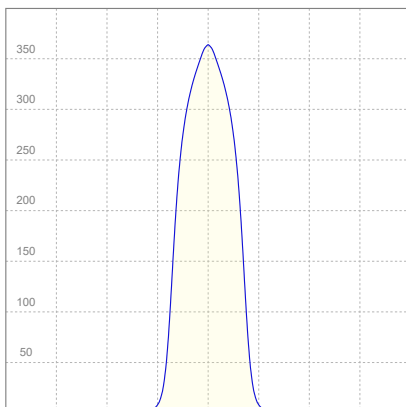
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,2°	77,5°	89,6°	99,6%	98,2%



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	363lx	91lx	40lx	23lx	15lx	6lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	34fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,5m	5,7m	8,5m	11,4m	17m	22,7m	28,4m	34,1m	45,4m	56,8m
Beam wid.	3,7ft	7,5ft	11,1ft	14,9ft	18,6ft	27,9ft	37,3ft	55,9ft	74,5ft	93,2ft	111,8ft	149,1ft	186,3ft

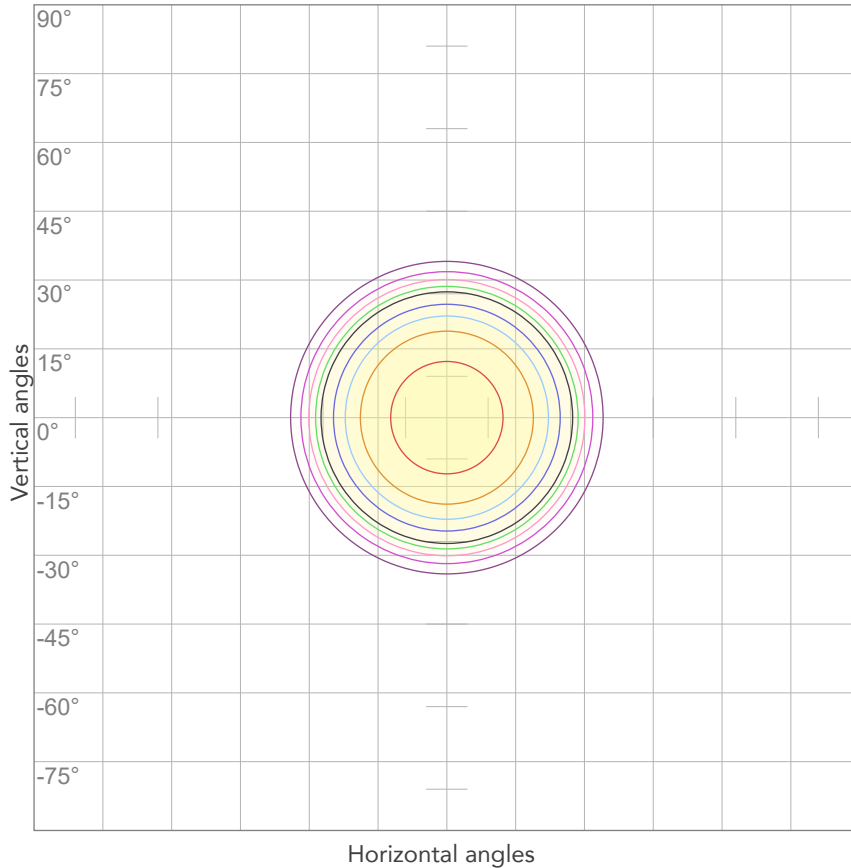
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,111A	22,8W	13lm/W

ISO CANDELA DIAGRAM

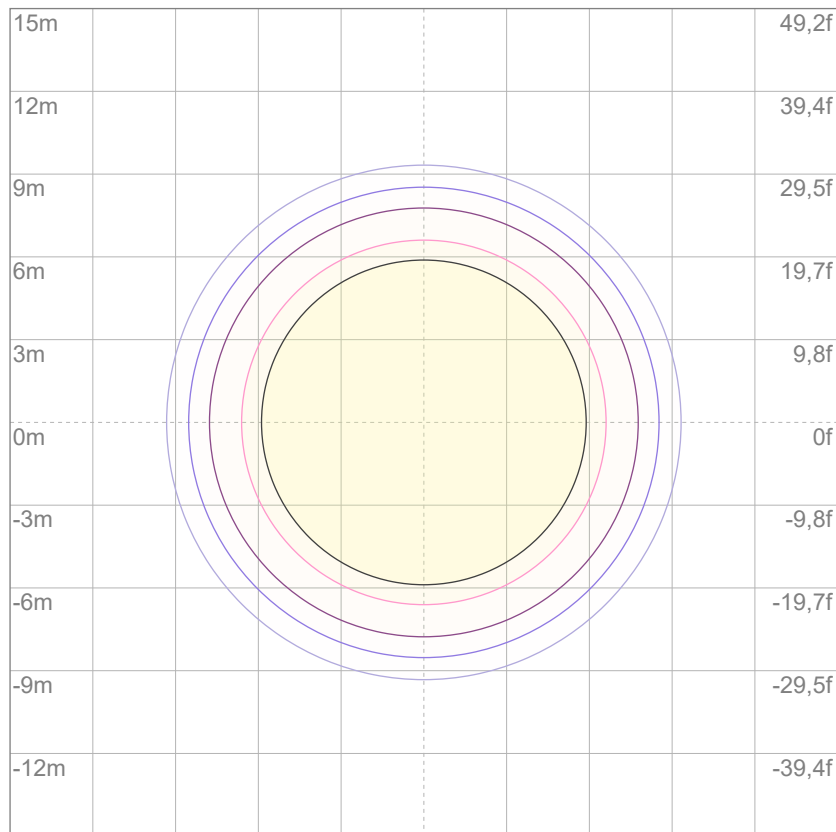


10%	36 cd
20%	73 cd
30%	109 cd
40%	145 cd
50%	182 cd
60%	218 cd
70%	254 cd
80%	291 cd

Conditions:

Number of c-planes: 2
Candela at center: 363 cd

ISO LUX DIAGRAM



3%	0,109 lx
5%	0,182 lx
10%	0,363 lx
30%	1,09 lx
50%	1,82 lx

Conditions:

Number of c-planes: 2
Lux at center: 3,63 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

231 lm

Peak candela output:

912 cd

Light quality:

CRI: 93,4

Color temperature:

3160 K

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

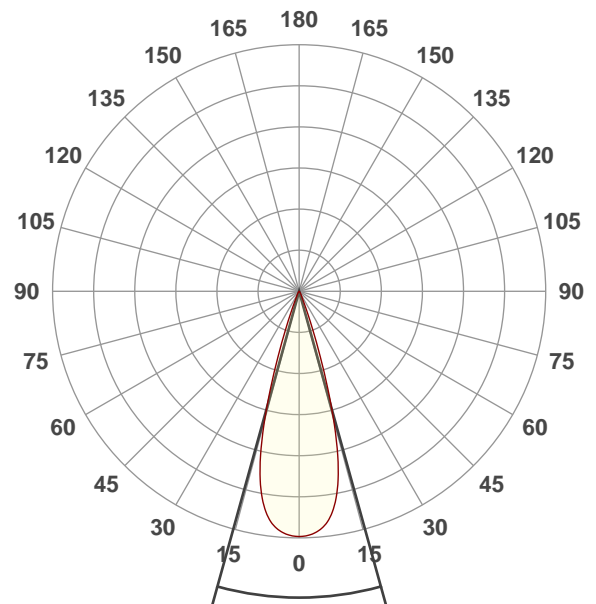
3200K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:40:45

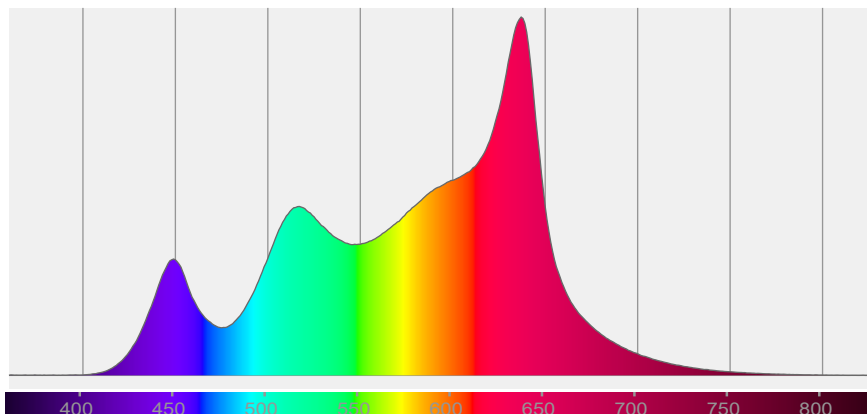


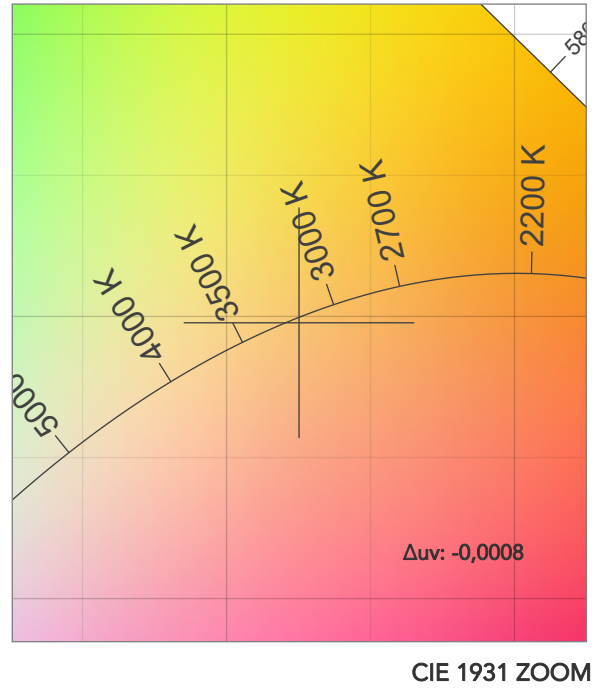
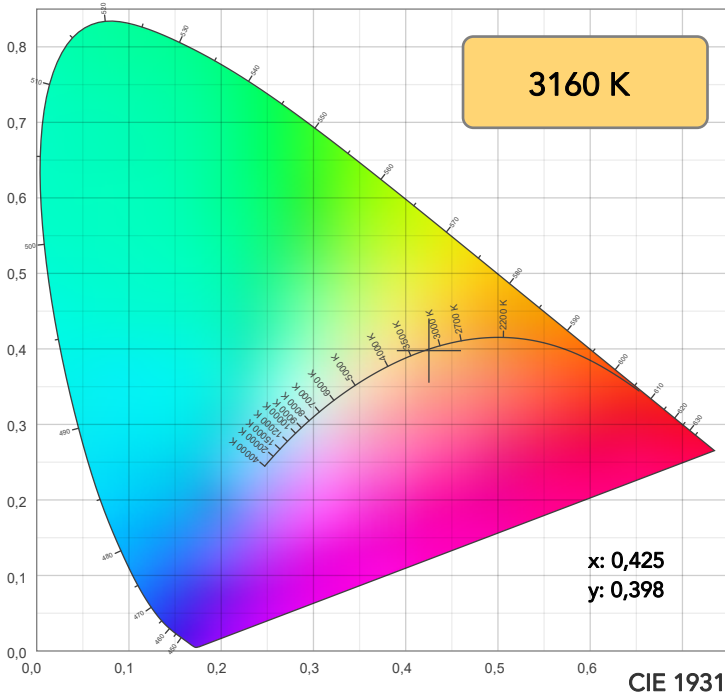
Beam angle 50%: 31°

Field angle 10%: 41,9°

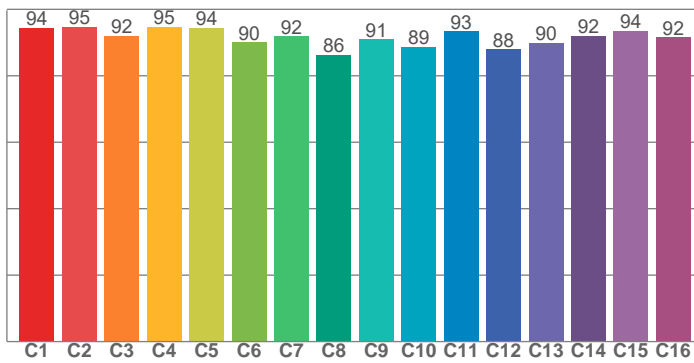
Cut off angle 2.5%: 51,6°

Spectra

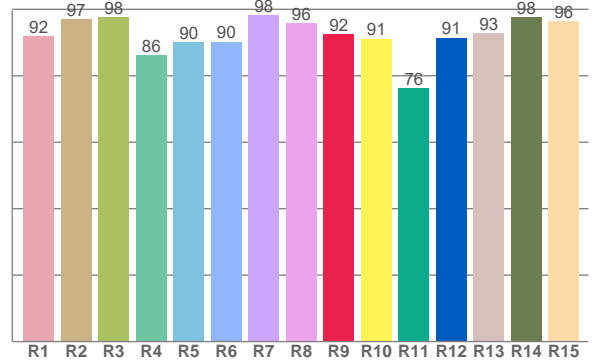




TM30: 92,2



CRI: 93,4 (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
91,9	97,0	97,7	86,1	90,0	90,3	98,2	95,7	92,4	91,1	76,2	91,5	92,8	97,6	96,4

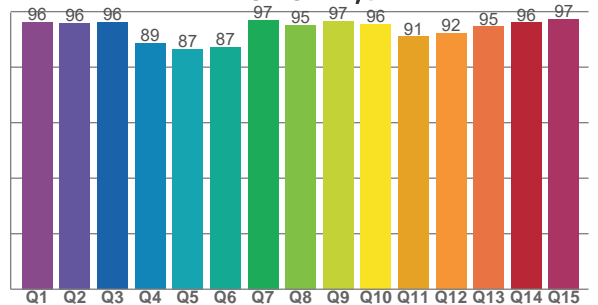
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	94,7	92,0	94,7	94,4	90,1	91,8	86,3	91,0	88,7	93,3	87,9	90,0	92,1	93,6	91,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,3	95,9	96,2	88,6	86,5	87,3	96,9	95,2	96,7	95,6	91,0	92,3	94,6	96,1	97,4

CQS: 92,6



COLOR PARAMETERS

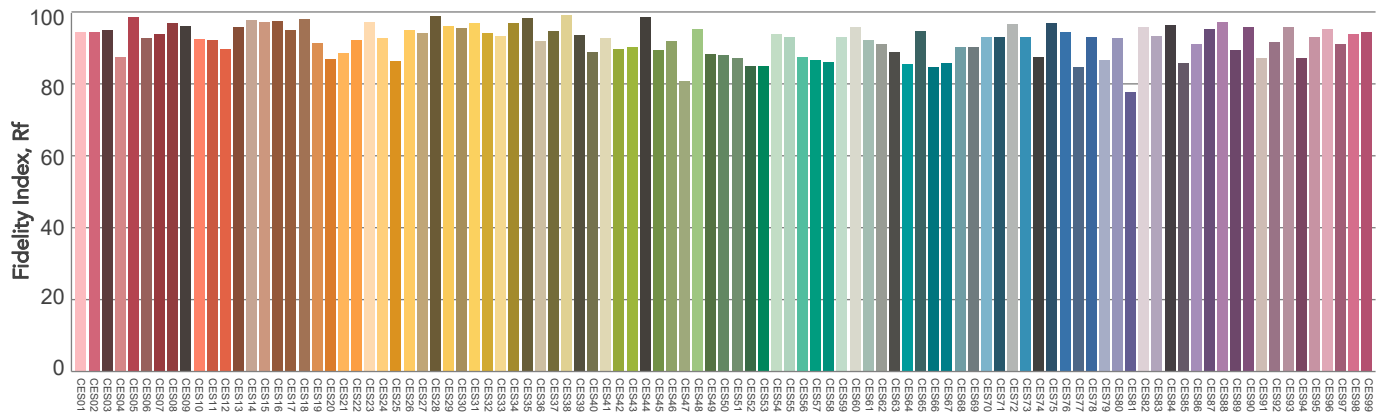
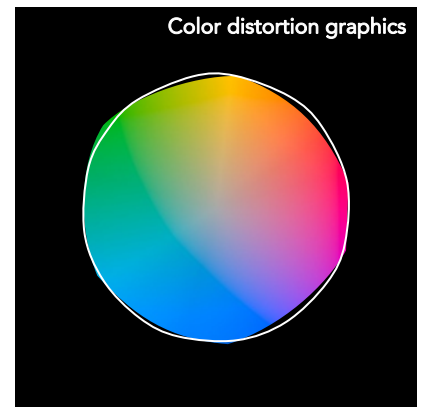
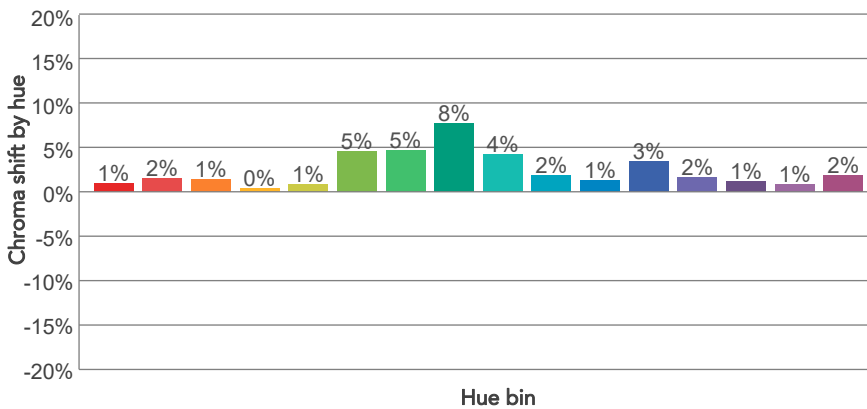
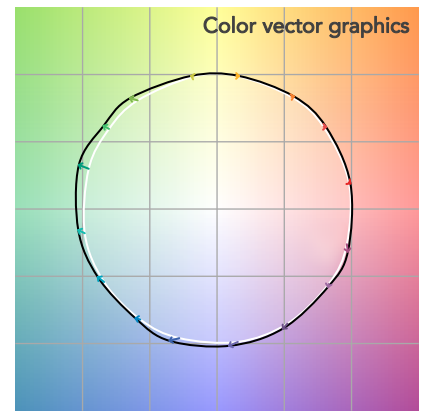
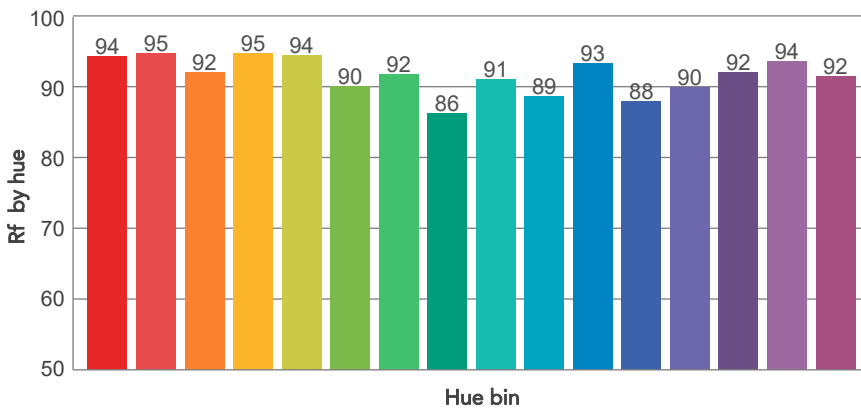
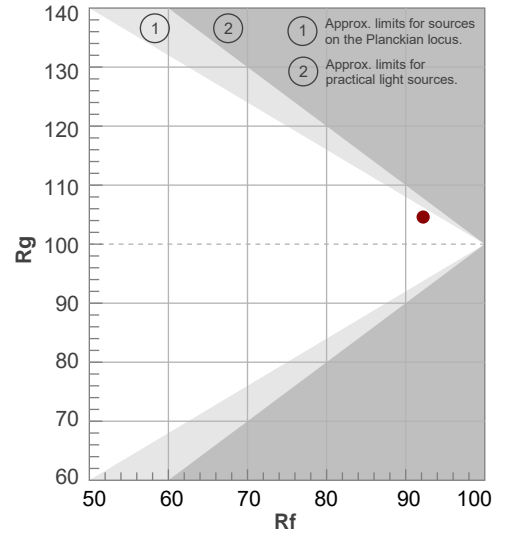
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3160 K	93,4	92,4	92,2	104,6	92,6	83	0,425	0,398	-0,0008

TM30 DETAILS

Rf 92,2
Fidelity index Rf

Rg 104,6
Gammut index

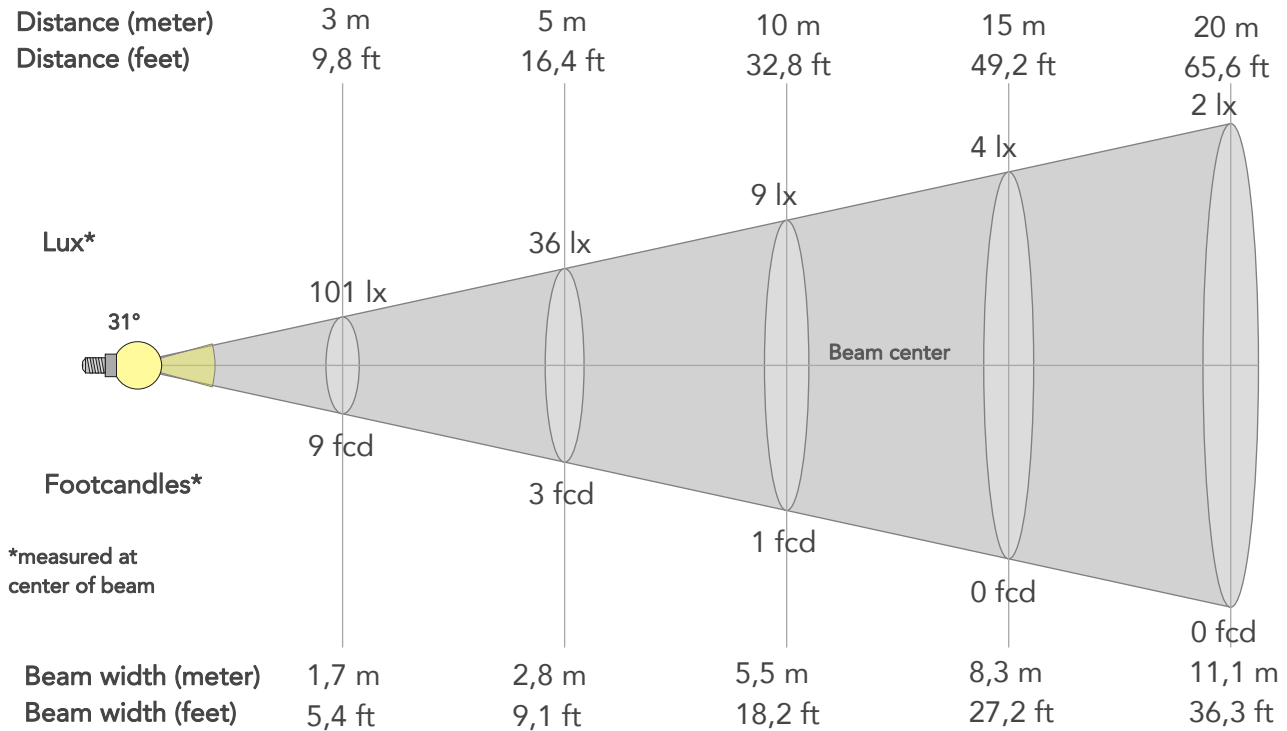
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	95	2%	-1%
3	92	1%	-1%
4	95	0%	-2%
5	94	1%	2%
6	90	5%	4%
7	92	5%	0%
8	86	8%	-1%
9	91	4%	-3%
10	89	2%	-6%
11	93	1%	-3%
12	88	3%	-7%
13	90	2%	-7%
14	92	1%	-5%
15	94	1%	-2%
16	92	2%	-5%



BEAM DETAILS



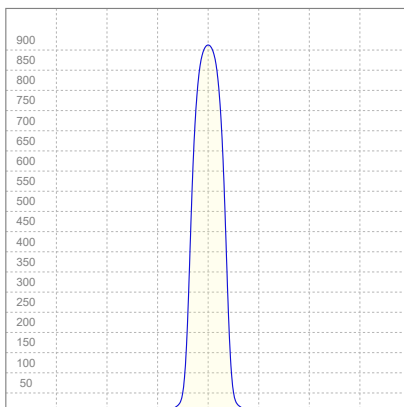
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31°	41,9°	51,6°	99,9%	99,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	912lx	228lx	101lx	57lx	36lx	16lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	85fcd	21fcd	9fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,2m	5,5m	8,3m	11,1m	13,8m	16,6m	22,1m	27,7m
Beam wid.	1,8ft	3,7ft	5,4ft	7,3ft	9,1ft	13,6ft	18,2ft	27,2ft	36,3ft	45,4ft	54,5ft	72,6ft	90,8ft

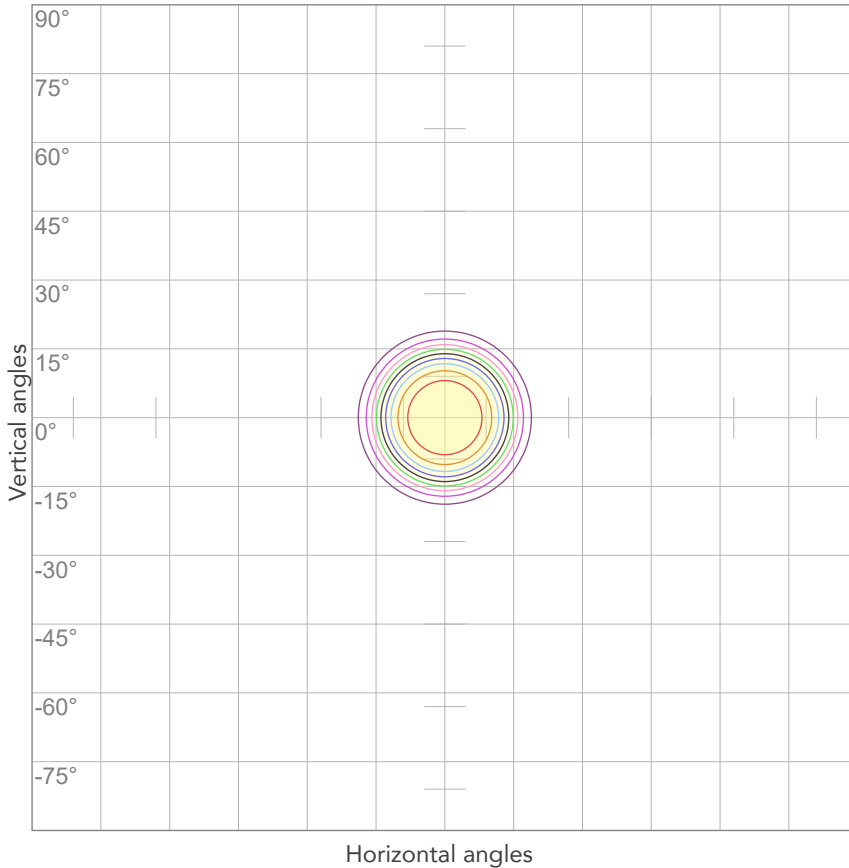
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,111A	22,8W	10lm/W

ISO CANDELA DIAGRAM



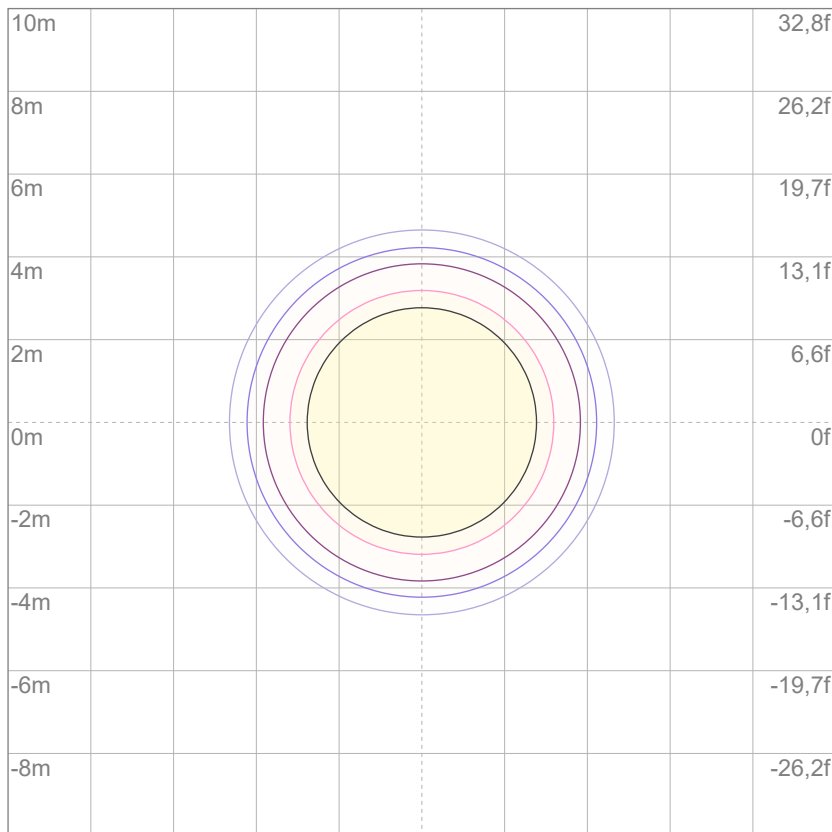
10%	91 cd
20%	182 cd
30%	274 cd
40%	365 cd
50%	456 cd
60%	547 cd
70%	638 cd
80%	730 cd

Conditions:

Number of c-planes: 2

Candela at center: 912 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,274 lx
5%	0,456 lx
10%	0,912 lx
30%	2,74 lx
50%	4,56 lx

Conditions:

Number of c-planes: 2

Lux at center: 9,12 lx

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



Total lumen output:

312 lm

Peak candela output:

377 cd

Light quality:

CRI: 93,8

Color temperature:

3953 K

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

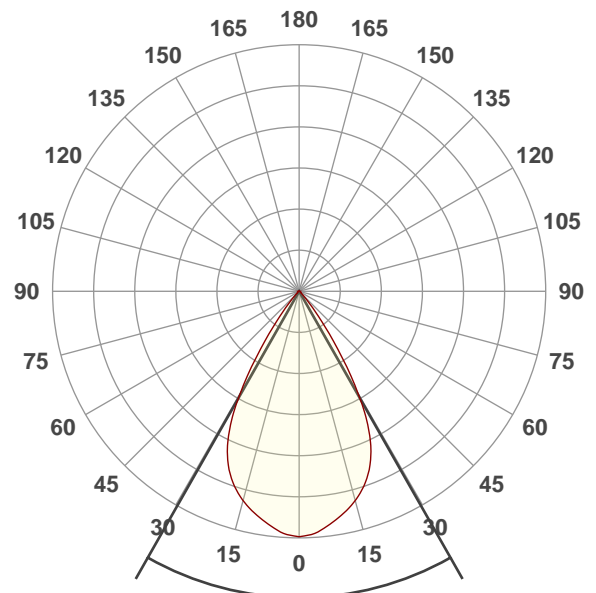
4000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:53:24

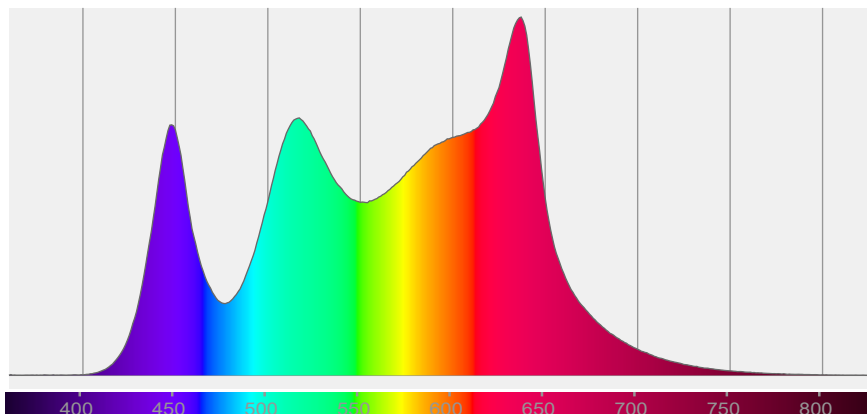


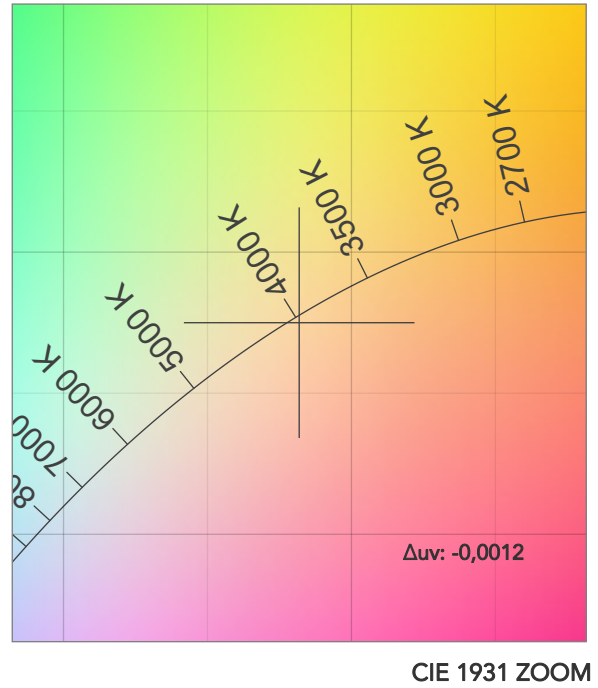
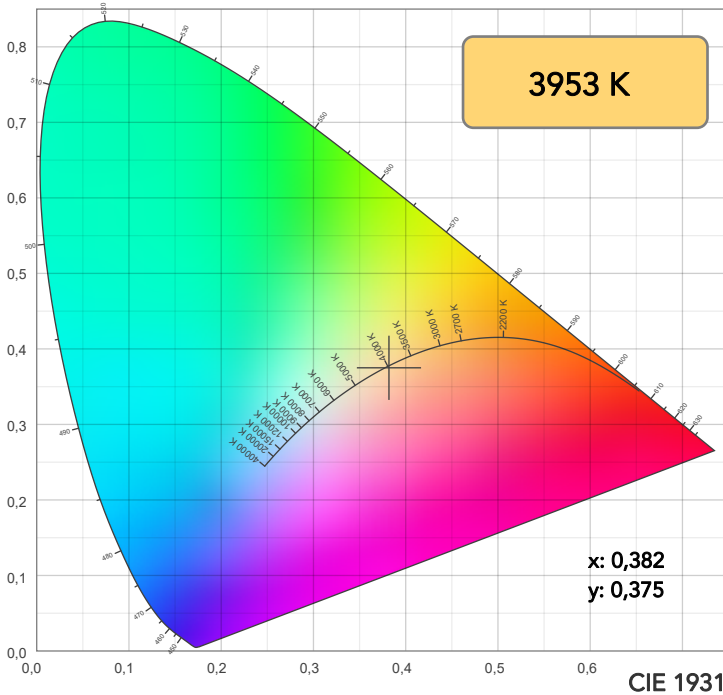
Beam angle 50%: 59,2°

Field angle 10%: 77,8°

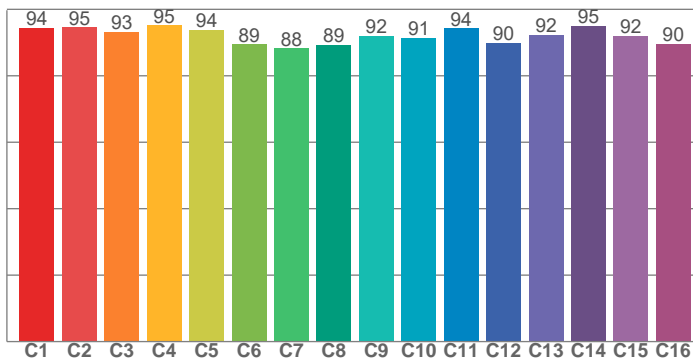
Cut off angle 2.5%: 89,4°

Spectra

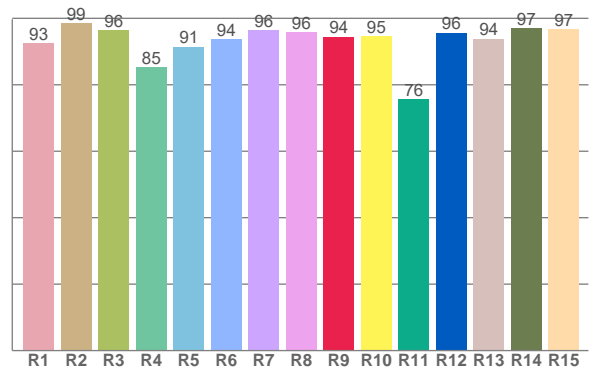




TM30: 92,5



CRI: 93,8 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,6	98,6	96,4	85,2	91,5	93,6	96,5	95,8	94,5	94,6	75,7	95,7	93,8	97,0	96,8

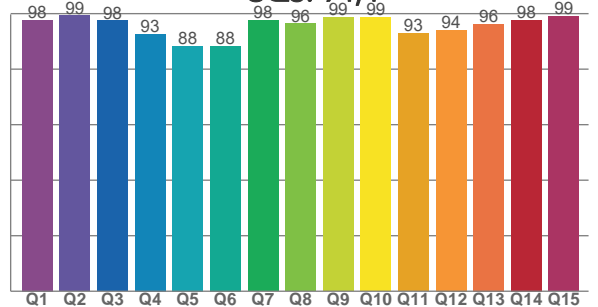
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,7	99,3	97,5	92,7	88,4	88,3	97,6	96,4	98,7	98,7	92,9	94,1	96,3	97,8	99,0

CQS: 94,4



COLOR PARAMETERS

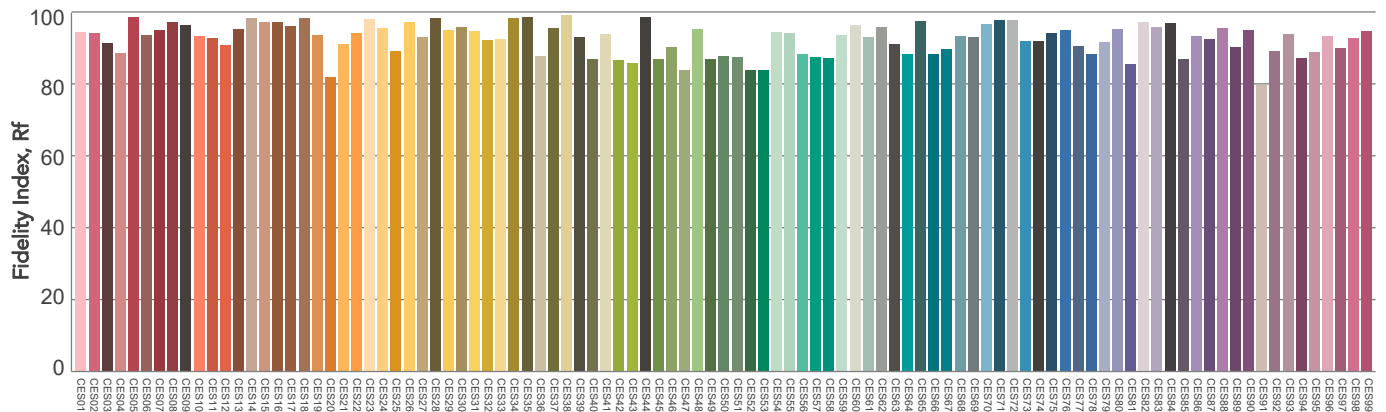
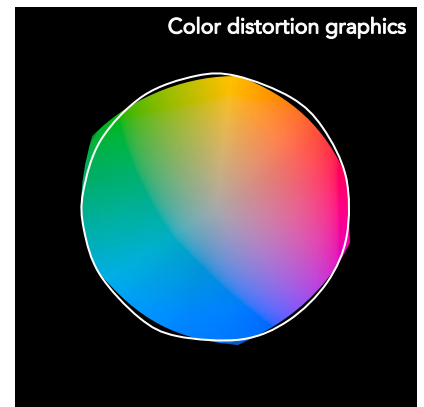
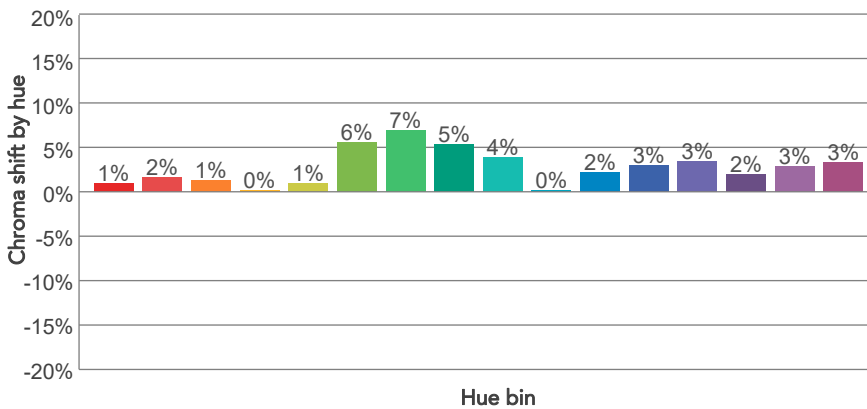
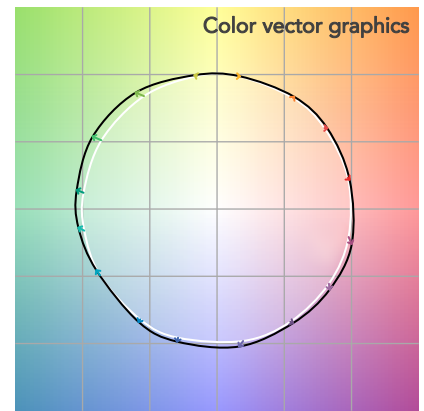
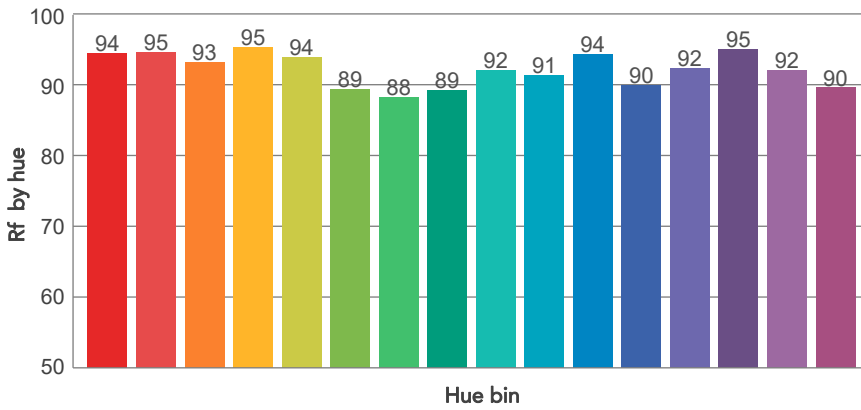
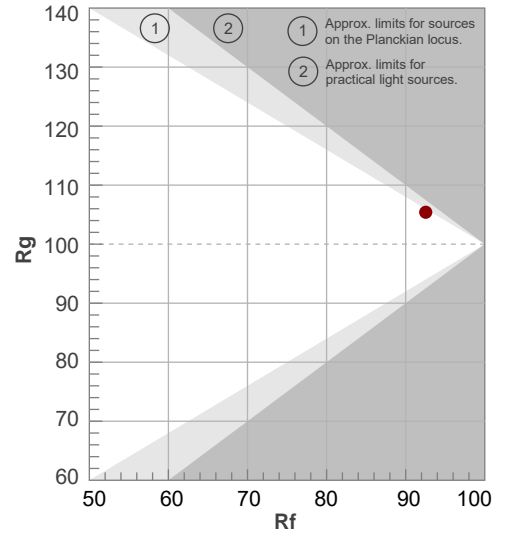
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3953 K	93,8	94,5	92,5	105,4	94,4	81	0,382	0,375	-0,0012

TM30 DETAILS

Rf 92,5
Fidelity index Rf

Rg 105,4
Gammut index

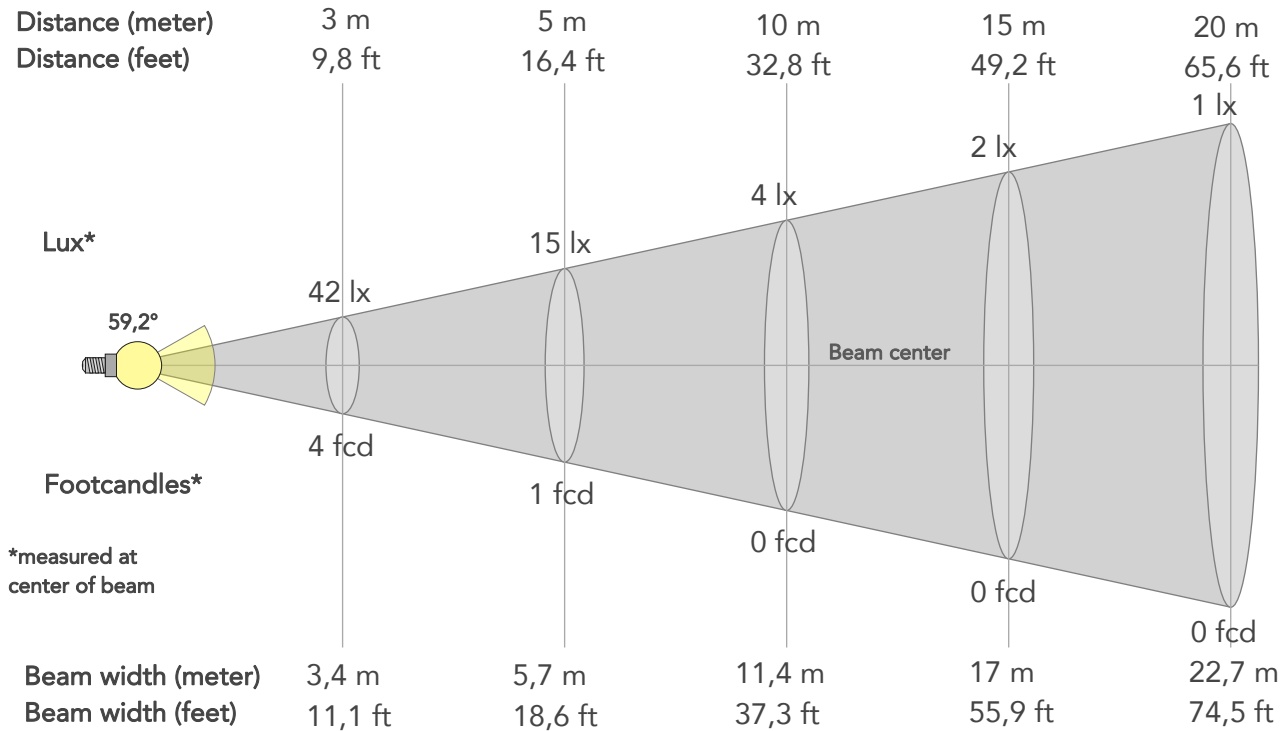
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	95	2%	-1%
3	93	1%	0%
4	95	0%	-1%
5	94	1%	2%
6	89	6%	4%
7	88	7%	1%
8	89	5%	-1%
9	92	4%	-3%
10	91	0%	-5%
11	94	2%	0%
12	90	3%	0%
13	92	3%	-4%
14	95	2%	1%
15	92	3%	-3%
16	90	3%	-5%



BEAM DETAILS



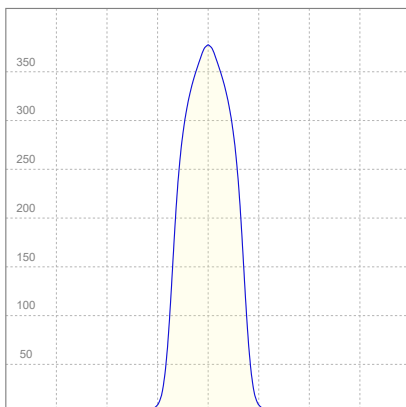
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,2°	77,8°	89,4°	99,5%	98,0%



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	377lx	94lx	42lx	24lx	15lx	7lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	35fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,5m	5,7m	8,5m	11,4m	17m	22,7m	28,4m	34,1m	45,5m	56,8m
Beam wid.	3,8ft	7,5ft	11,1ft	14,9ft	18,6ft	28ft	37,3ft	55,9ft	74,5ft	93,2ft	111,8ft	149,1ft	186,4ft

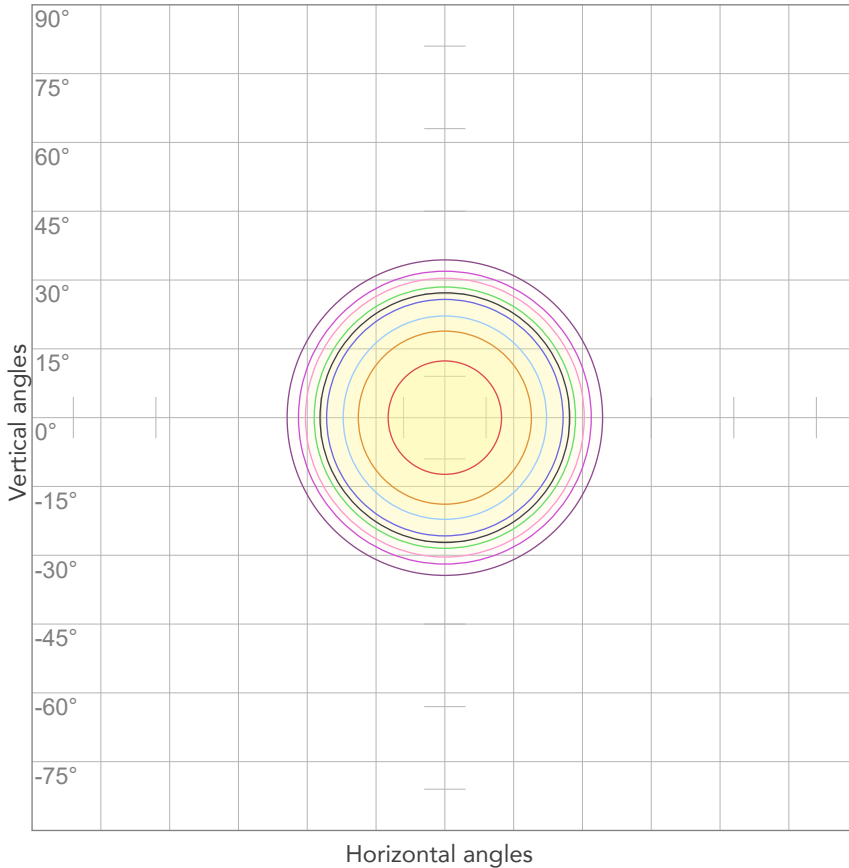
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,115A	23,7W	13lm/W

ISO CANDELA DIAGRAM



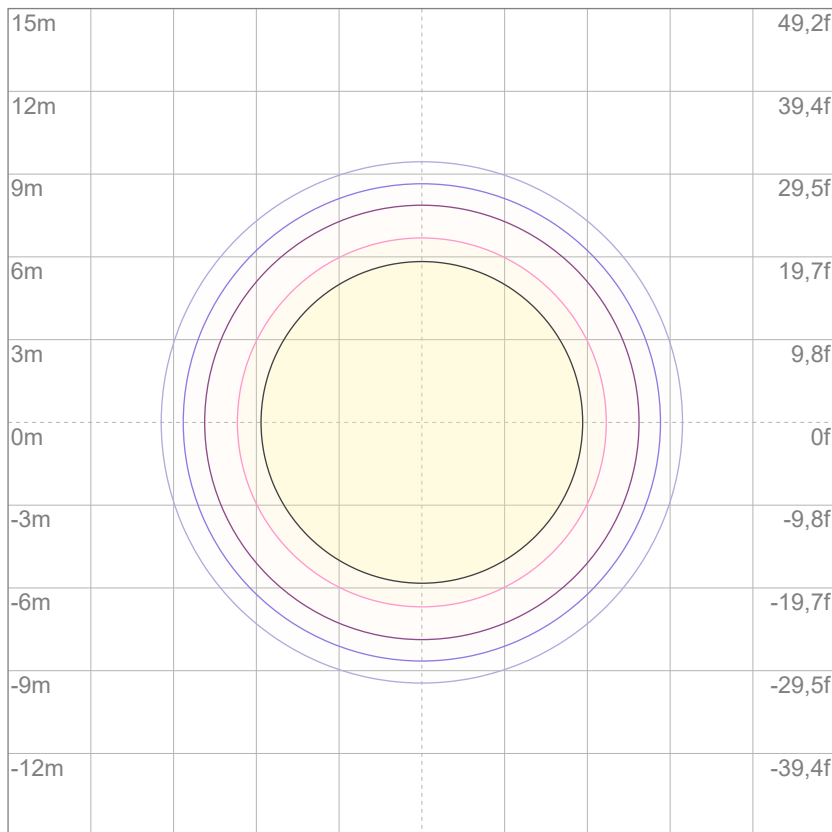
10%	38 cd
20%	75 cd
30%	113 cd
40%	151 cd
50%	189 cd
60%	226 cd
70%	264 cd
80%	302 cd

Conditions:

Number of c-planes: 2

Candela at center: 377 cd

ISO LUX DIAGRAM



3%	0,113 lx
5%	0,189 lx
10%	0,377 lx
30%	1,13 lx
50%	1,89 lx

Conditions:

Number of c-planes: 2

Lux at center: 3,77 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

241 lm

Peak candela output:

949 cd

Light quality:

CRI: 93,7

Color temperature:

3889 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Washr25-50 Min Zoom

Target:

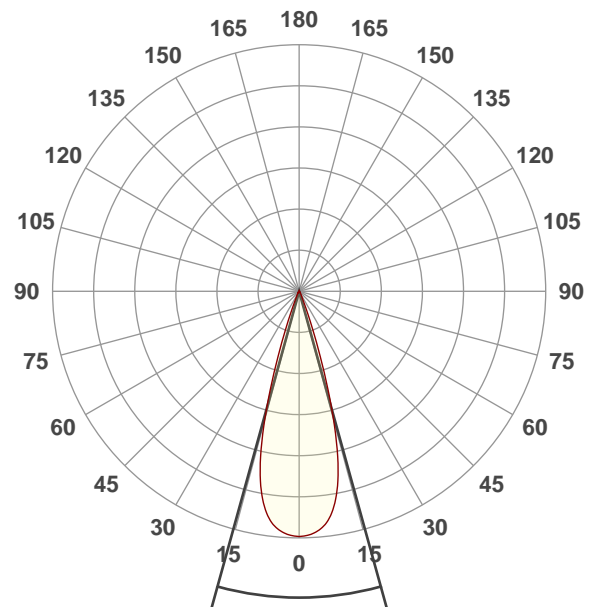
4000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:42:31

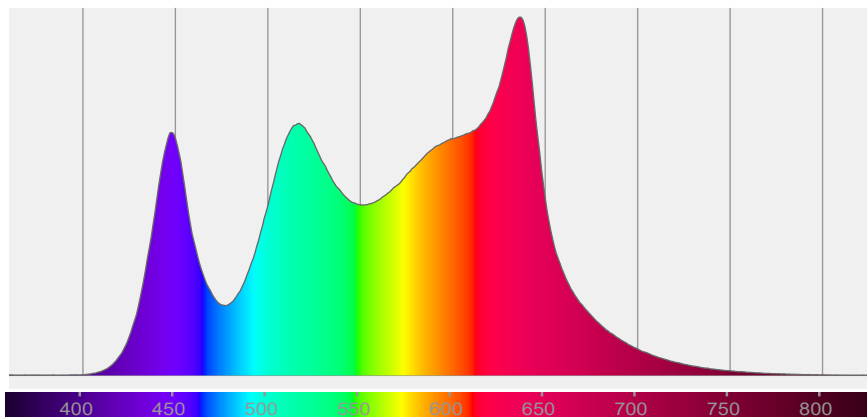


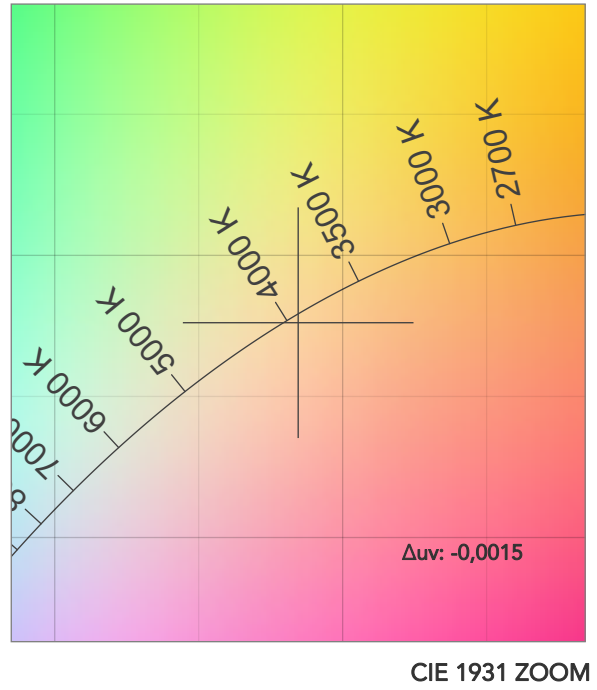
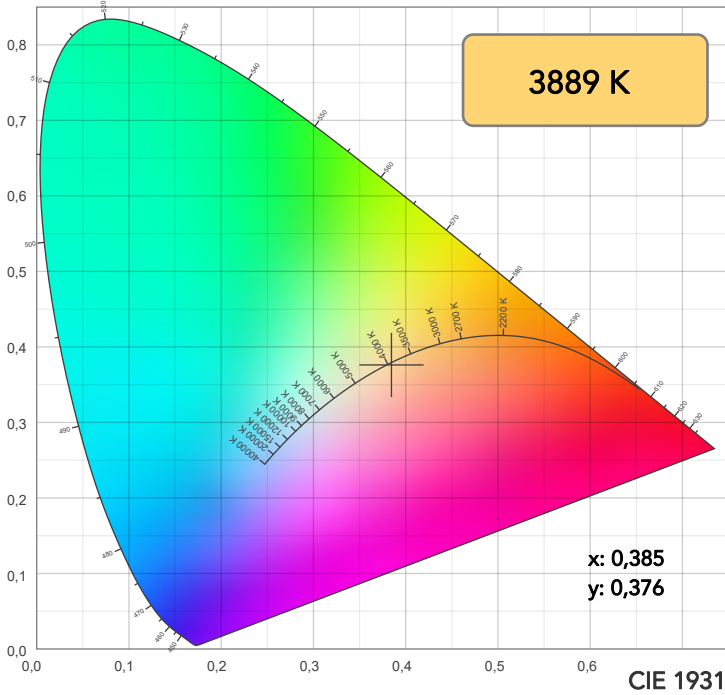
Beam angle 50%: 30,9°

Field angle 10%: 42,1°

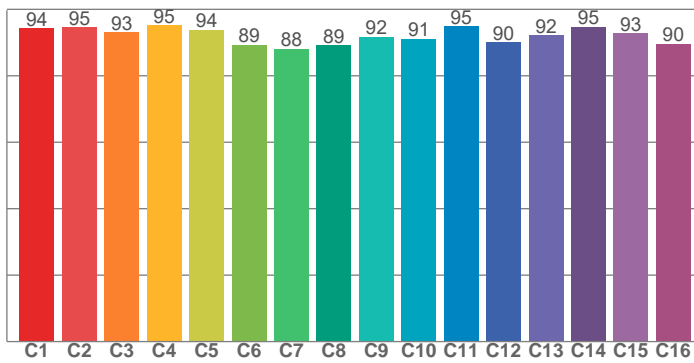
Cut off angle 2.5%: 51,9°

Spectra

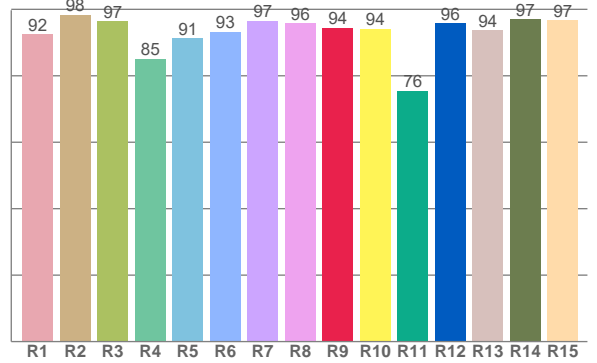




TM30: 92,5



CRI: 93,7 (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
92,4	98,4	96,5	85,1	91,3	93,3	96,5	95,9	94,4	94,2	75,5	95,9	93,6	97,1	96,7

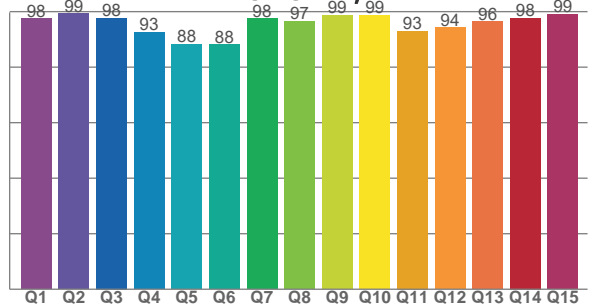
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	94,5	93,1	95,2	93,8	89,2	88,1	89,1	91,8	91,0	94,9	90,0	92,1	94,7	92,7	89,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,5	99,3	97,7	92,6	88,2	88,1	97,5	96,5	98,7	98,7	93,0	94,2	96,4	97,7	99,0

CQS: 94,4



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
3889 K	93,7	94,4	92,5	105,5	94,4	81	0,385	0,376	-0,0015

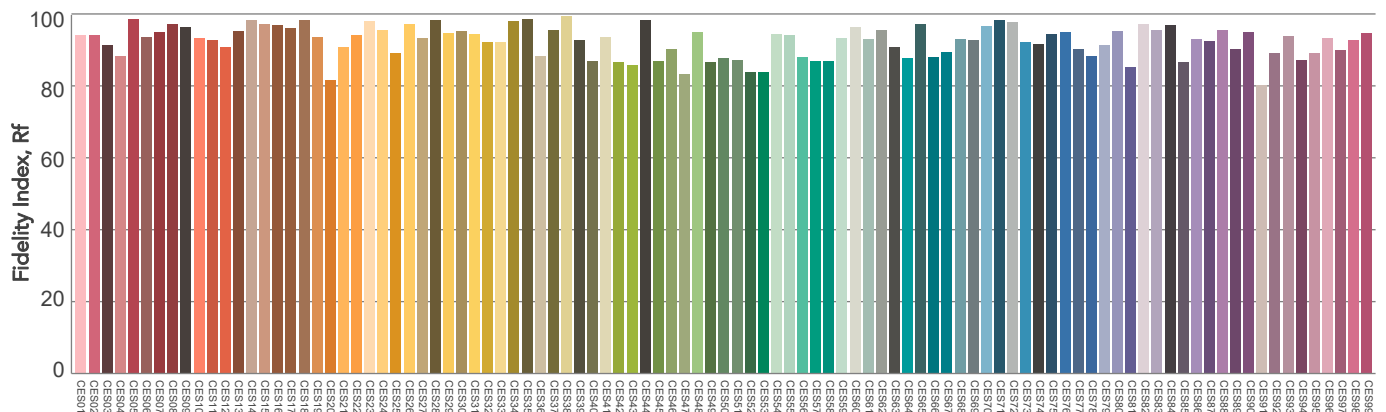
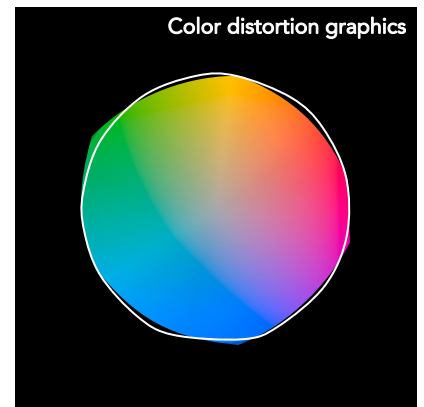
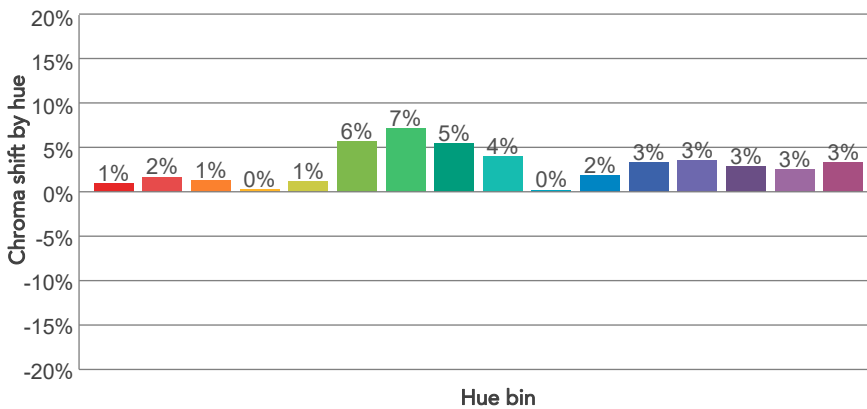
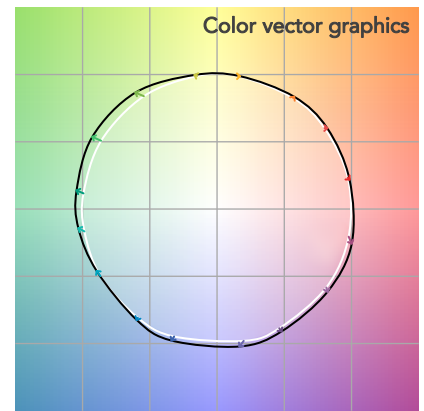
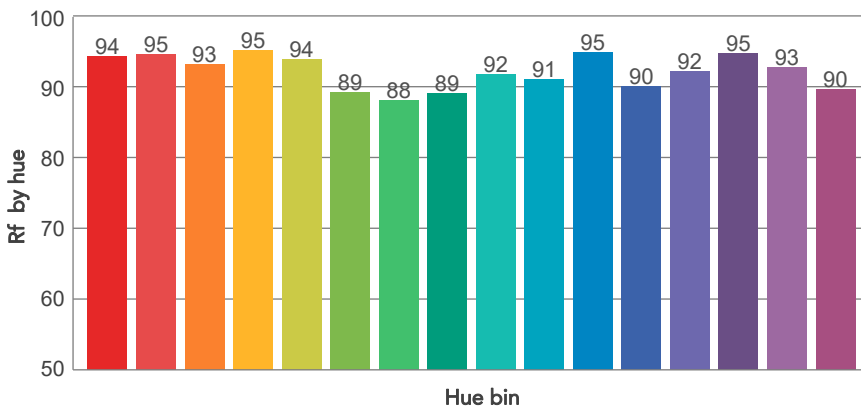
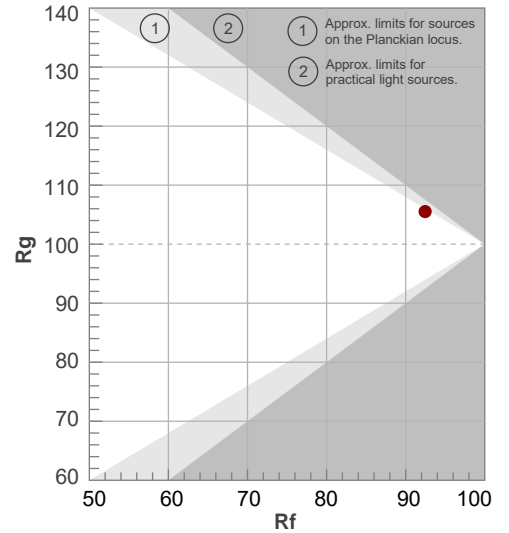
TM30 DETAILS



Rf 92,5
Fidelity index Rf

Rg 105,5
Gammut index

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

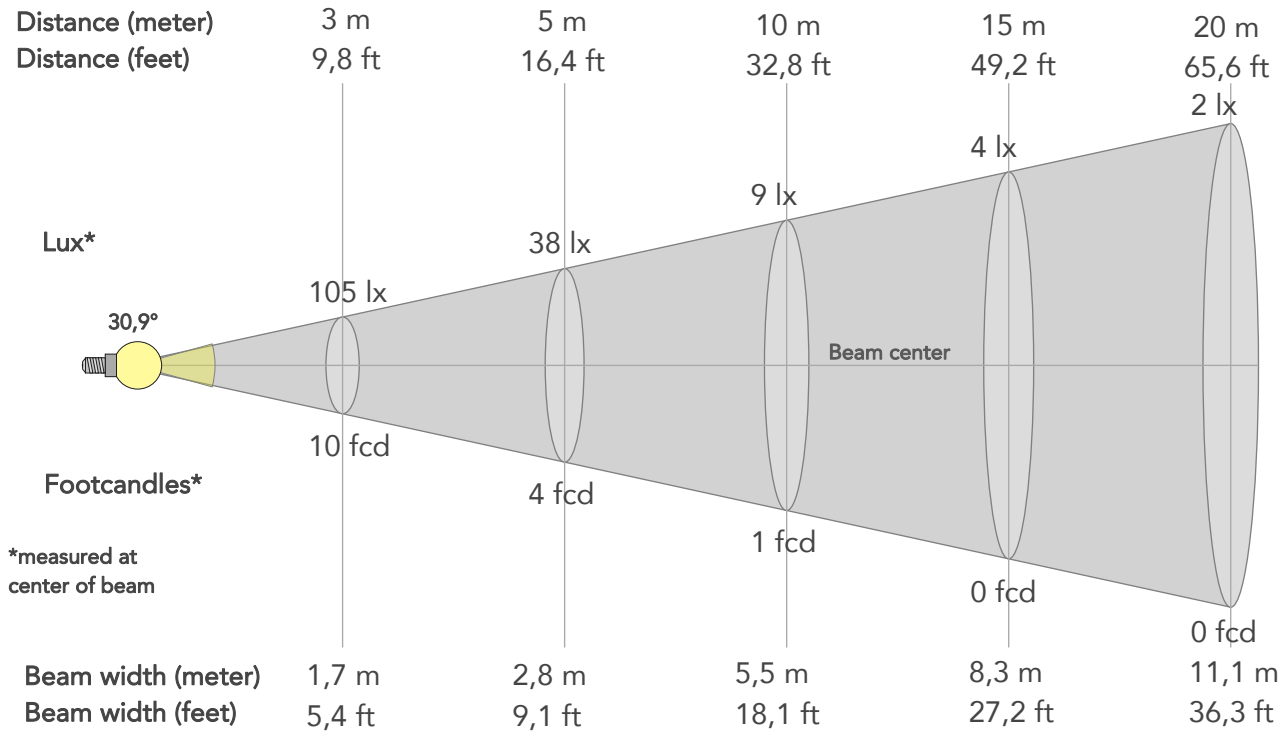


Color Evaluation Sample

BEAM DETAILS



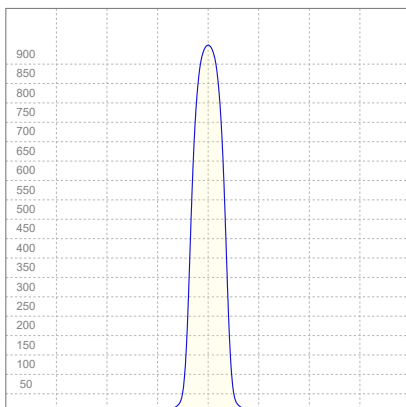
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,9°	42,1°	51,9°	99,8%	99,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	949lx	237lx	105lx	59lx	38lx	17lx	9lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	88fcd	22fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,1m	5,5m	8,3m	11,1m	13,8m	16,6m	22,1m	27,7m
Beam wid.	1,8ft	3,7ft	5,4ft	7,2ft	9,1ft	13,6ft	18,1ft	27,2ft	36,3ft	45,4ft	54,4ft	72,6ft	90,7ft

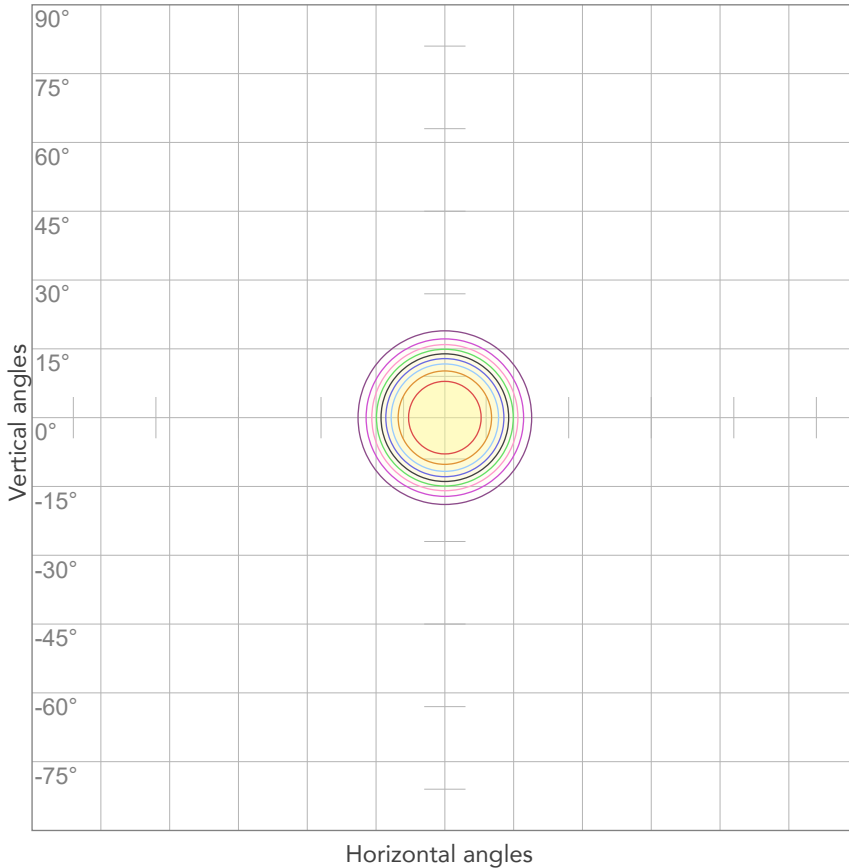
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,115A	23,7W	10lm/W

ISO CANDELA DIAGRAM

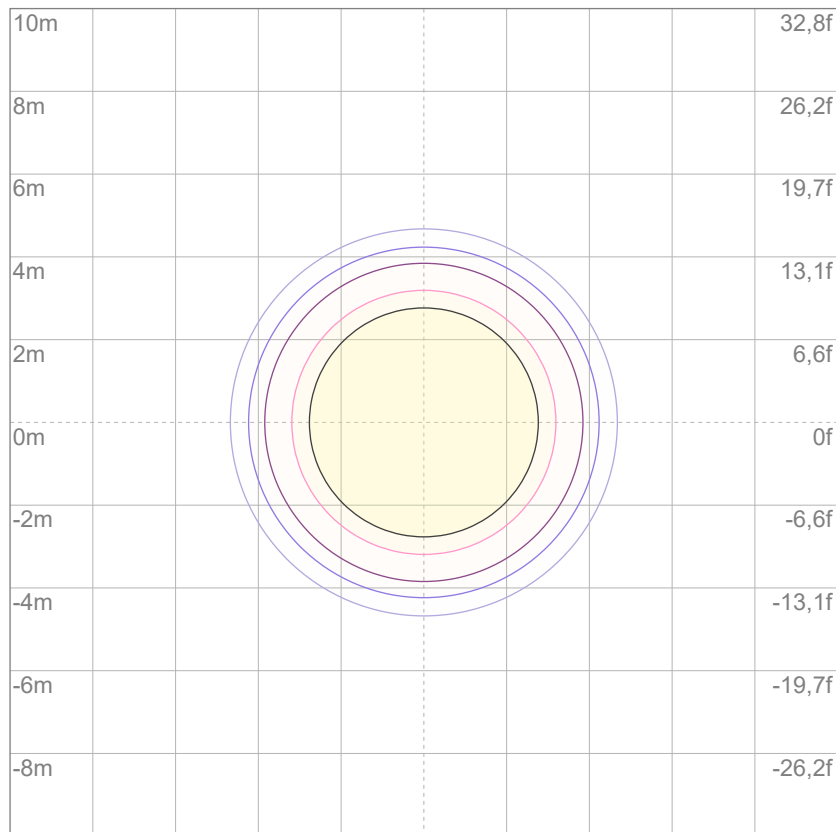


10%	95 cd
20%	190 cd
30%	285 cd
40%	379 cd
50%	474 cd
60%	569 cd
70%	664 cd
80%	759 cd

Conditions:

Number of c-planes: 2
Candela at center: 949 cd

ISO LUX DIAGRAM



3%	0,285 lx
5%	0,474 lx
10%	0,949 lx
30%	2,85 lx
50%	4,74 lx

Conditions:

Number of c-planes: 2
Lux at center: 9,49 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

340 lm

Peak candela output:

410 cd

Light quality:

CRI: 91,9

Color temperature:

5632 K

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

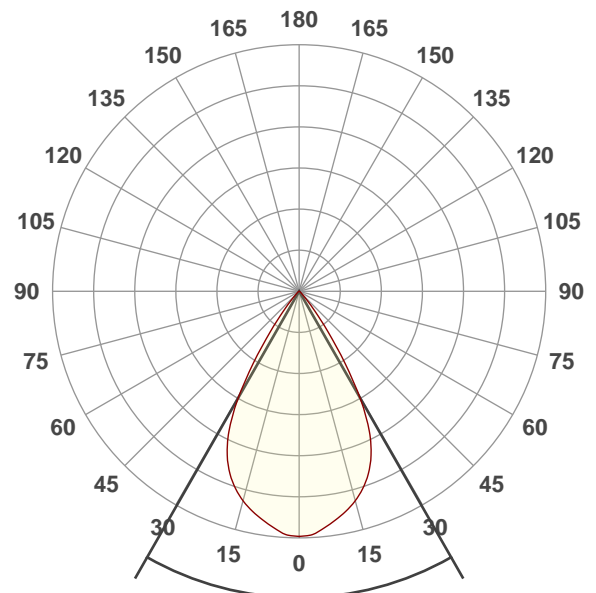
5600K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:55:18

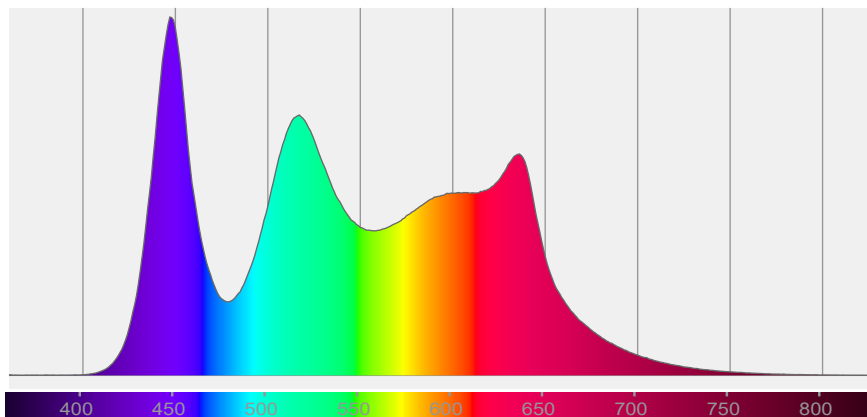


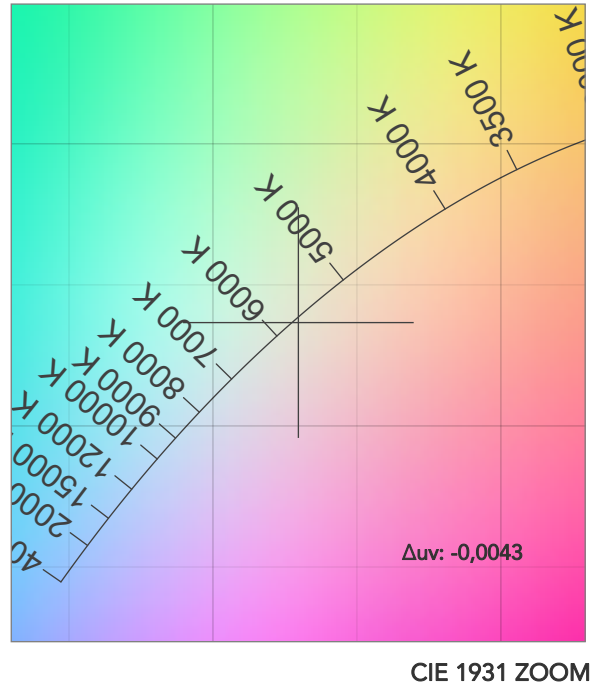
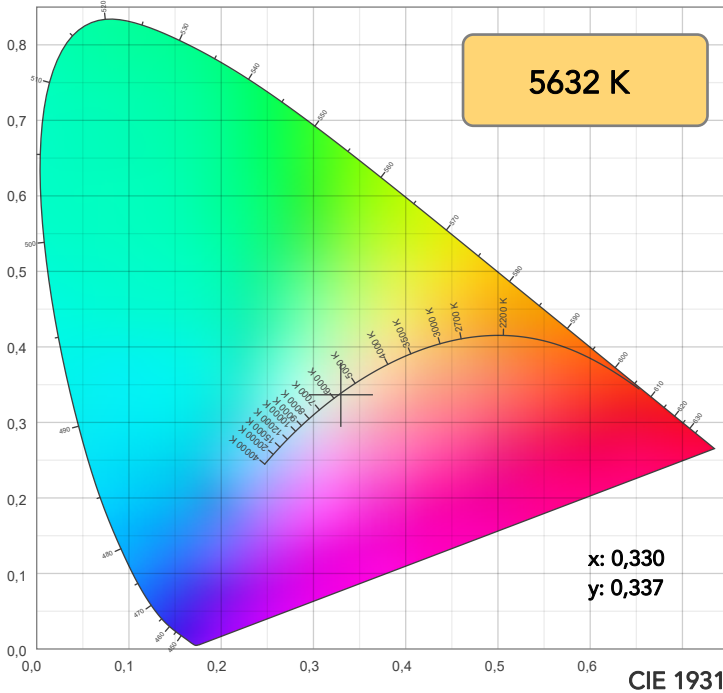
Beam angle 50%: 59,5°

Field angle 10%: 77,4°

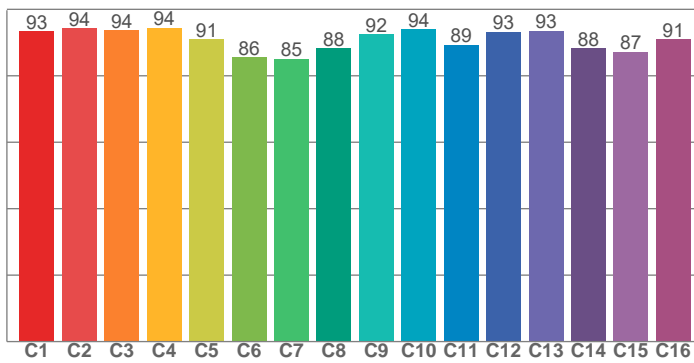
Cut off angle 2.5%: 89,1°

Spectra

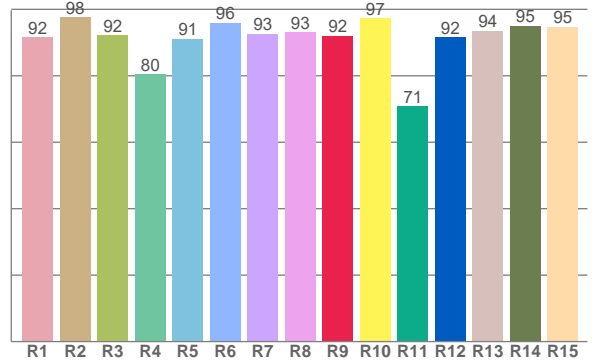




TM30: 90,9



CRI: 91,9 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,6	97,7	92,3	80,4	91,1	96,0	92,7	93,1	92,0	97,4	70,8	91,6	93,5	95,0	94,8

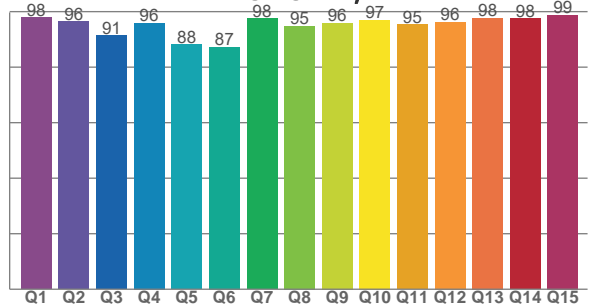
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,4	94,2	93,7	94,4	91,0	85,6	85,1	88,2	92,4	94,0	89,3	93,2	93,5	88,3	87,2	91,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,8	96,5	91,4	96,0	88,1	87,3	97,5	94,9	95,8	96,9	95,4	96,3	97,7	97,5	98,9

CQS: 94,1



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
5632 K	91,9	92,0	90,9	107,7	94,1	82	0,330	0,337	-0,0043

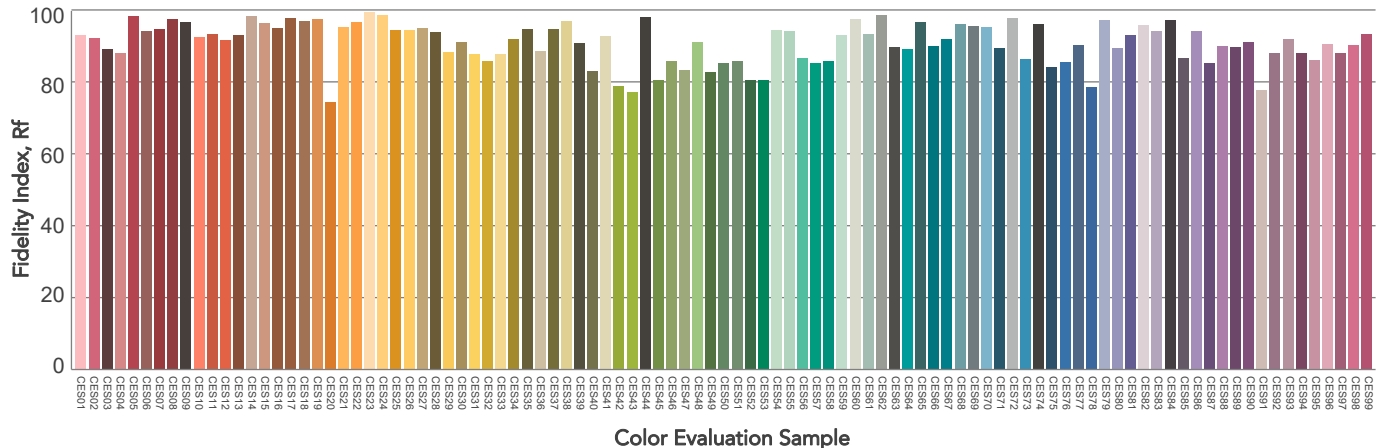
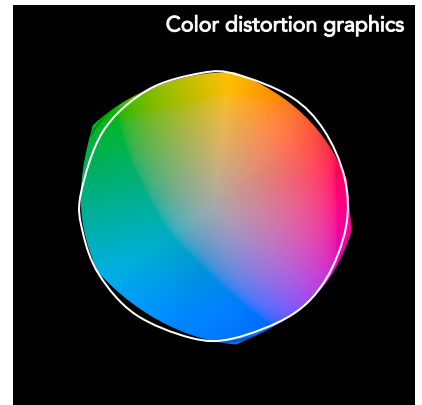
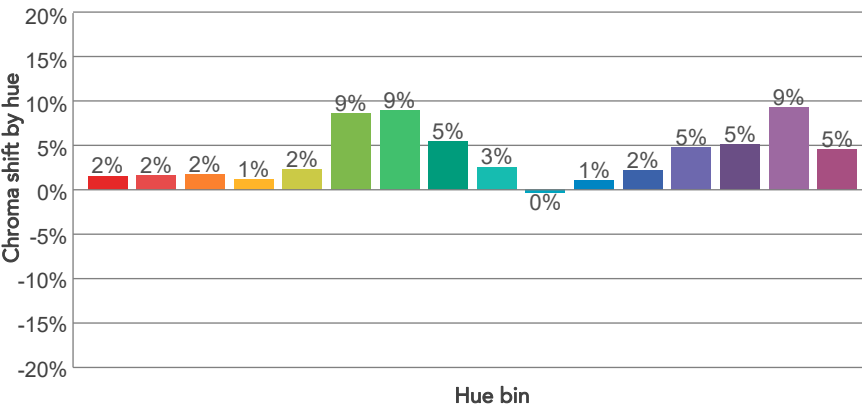
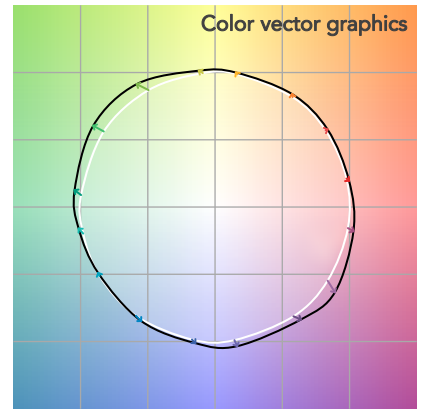
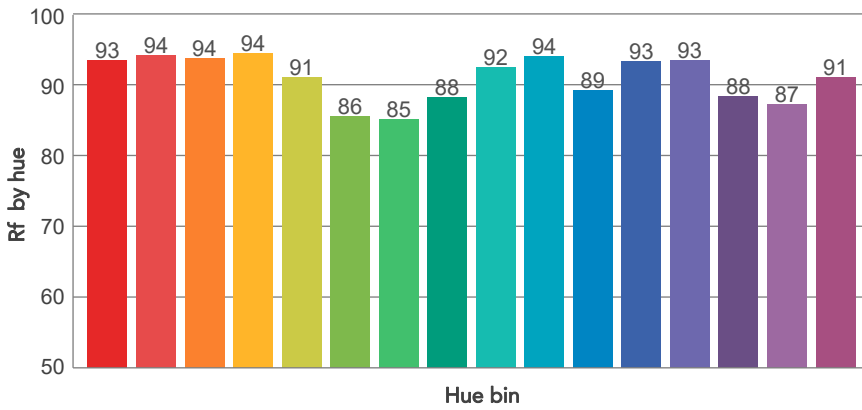
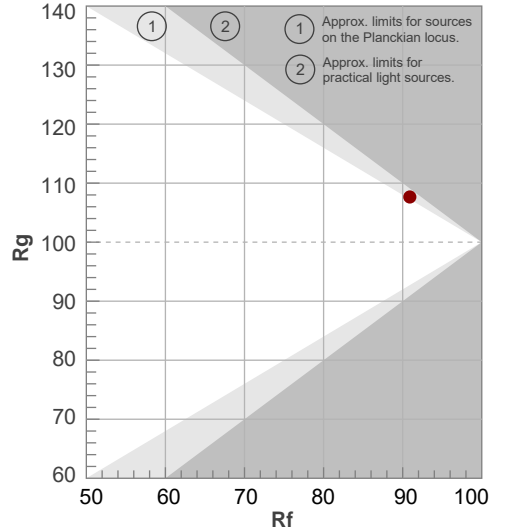
TM30 DETAILS



Rf 90,9
Fidelity index Rf

Rg 107,7
Gammut index

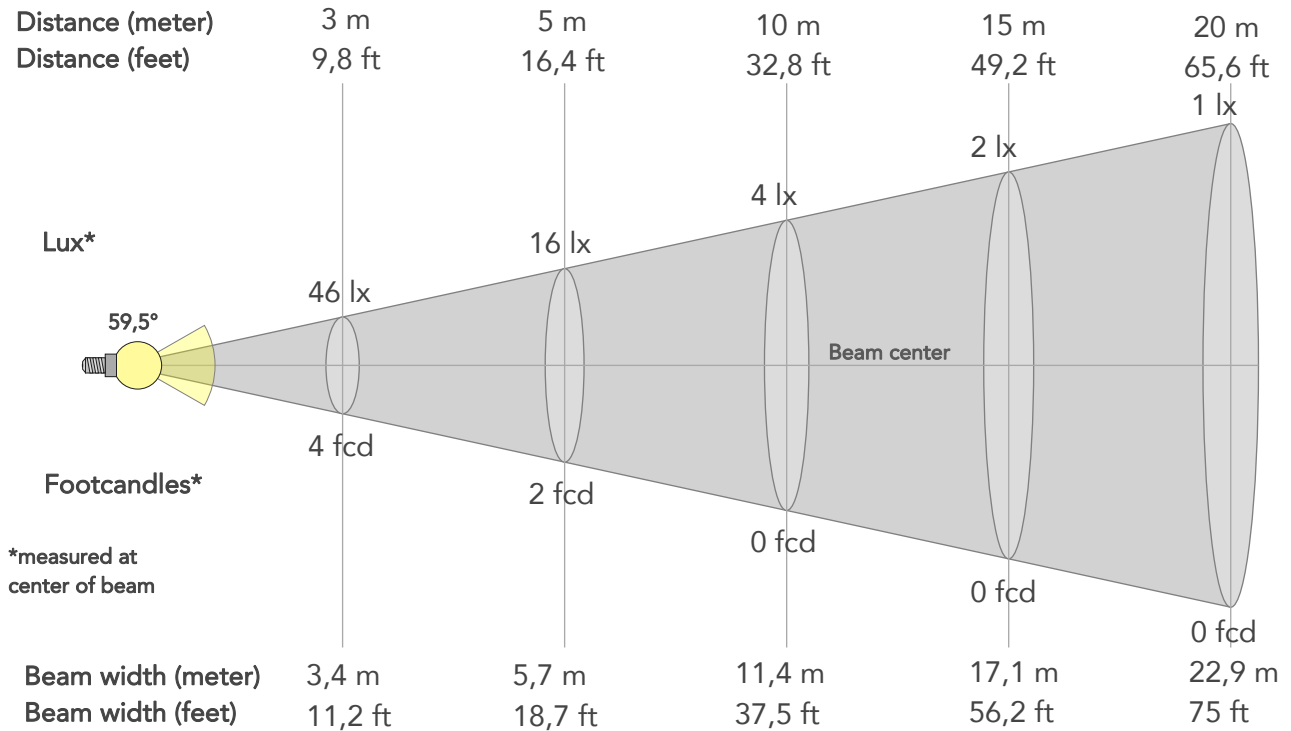
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	94	2%	0%
3	94	2%	2%
4	94	1%	1%
5	91	2%	3%
6	86	9%	5%
7	85	9%	1%
8	88	5%	-3%
9	92	3%	-4%
10	94	0%	-2%
11	89	1%	5%
12	93	2%	3%
13	93	5%	1%
14	88	5%	3%
15	87	9%	-4%
16	91	5%	-1%



BEAM DETAILS



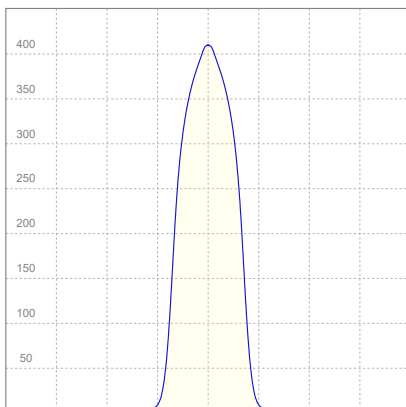
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,5°	77,4°	89,1°	99,5%	98,0%



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	410lx	102lx	46lx	26lx	16lx	7lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	38fcd	10fcd	4fcd	2fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,6m	5,7m	8,6m	11,4m	17,1m	22,9m	28,6m	34,3m	45,7m	57,1m
Beam wid.	3,8ft	7,5ft	11,2ft	15ft	18,7ft	28,1ft	37,5ft	56,2ft	75ft	93,7ft	112,5ft	150ft	187,4ft

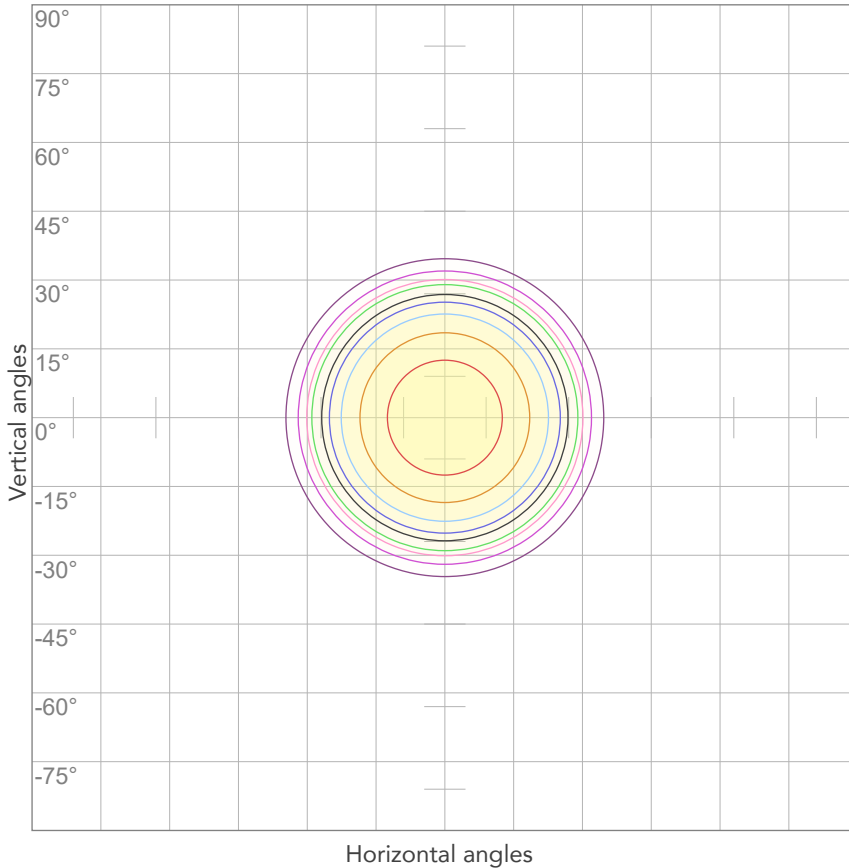
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,125A	26,0W	13lm/W

ISO CANDELA DIAGRAM

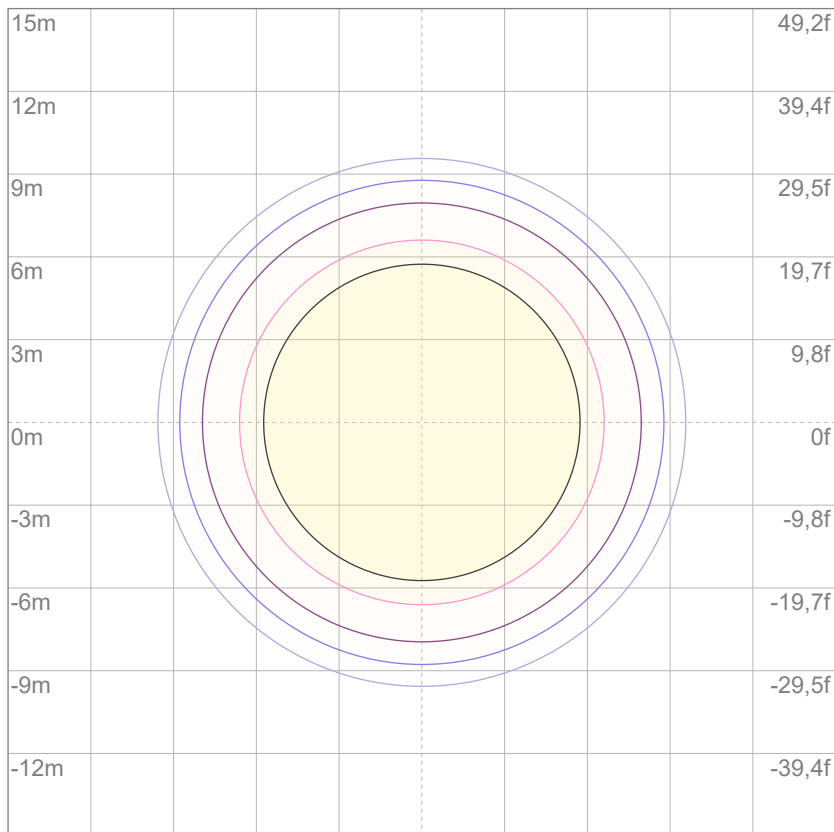


10%	41 cd
20%	82 cd
30%	123 cd
40%	164 cd
50%	205 cd
60%	246 cd
70%	287 cd
80%	328 cd

Conditions:

Number of c-planes: 2
Candela at center: 410 cd

ISO LUX DIAGRAM



3%	0,123 lx
5%	0,205 lx
10%	0,410 lx
30%	1,23 lx
50%	2,05 lx

Conditions:

Number of c-planes: 2
Lux at center: 4,10 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

263 lm

Peak candela output:

1031 cd

Light quality:

CRI: 91,8

Color temperature:

5512 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

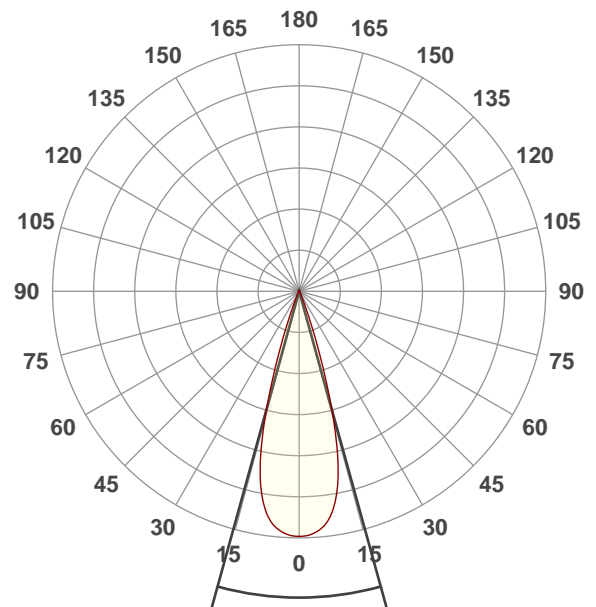
5600K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:44:22

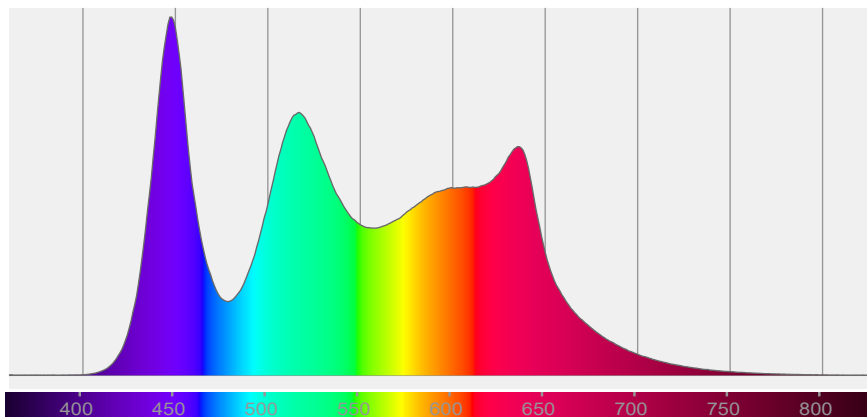


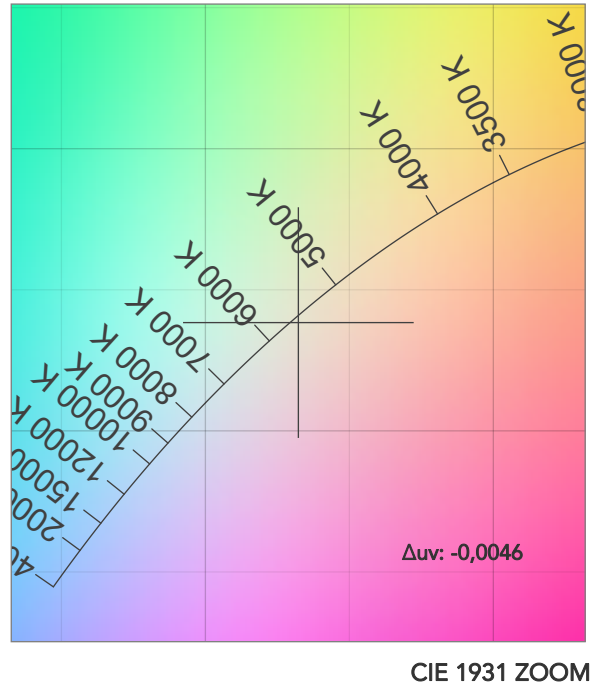
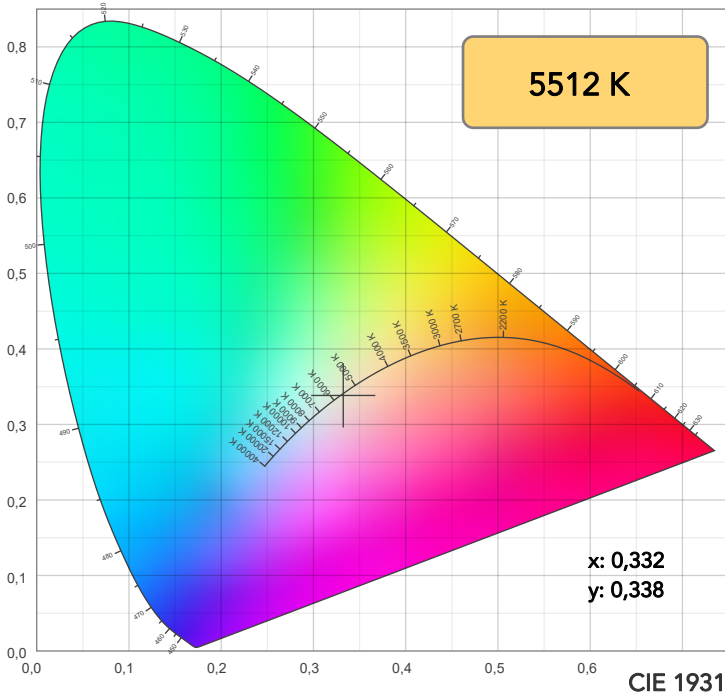
Beam angle 50%: 30,9°

Field angle 10%: 42,1°

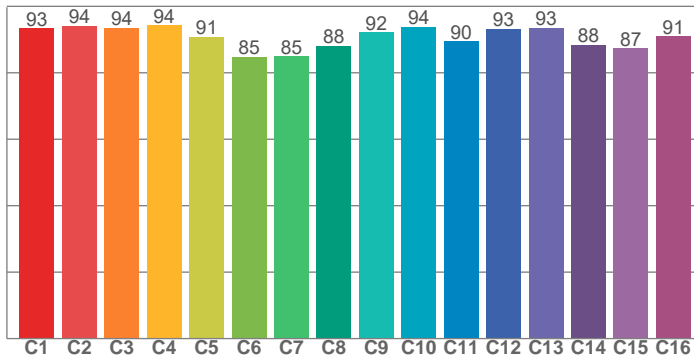
Cut off angle 2.5%: 52,2°

Spectra

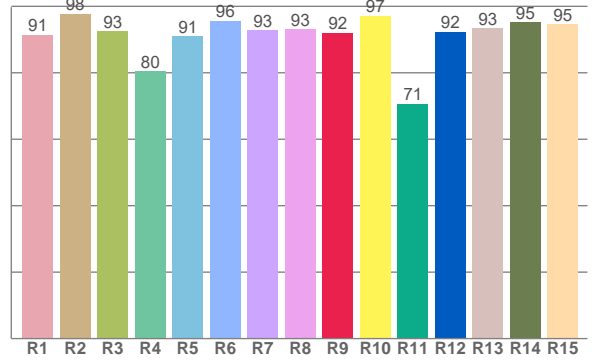




TM30: 90,9



CRI: 91,8 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,5	97,7	92,5	80,4	90,9	95,7	92,7	93,1	92,1	97,2	70,7	92,3	93,3	95,1	94,6

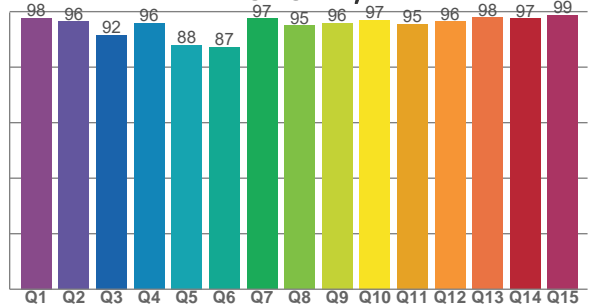
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,4	94,2	93,6	94,3	90,9	84,8	84,9	88,0	92,2	93,8	89,5	93,3	93,5	88,3	87,4	91,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,6	96,5	91,5	95,8	88,0	87,1	97,5	95,0	95,9	96,9	95,5	96,5	97,9	97,5	98,8

CQS: 94,1



COLOR PARAMETERS

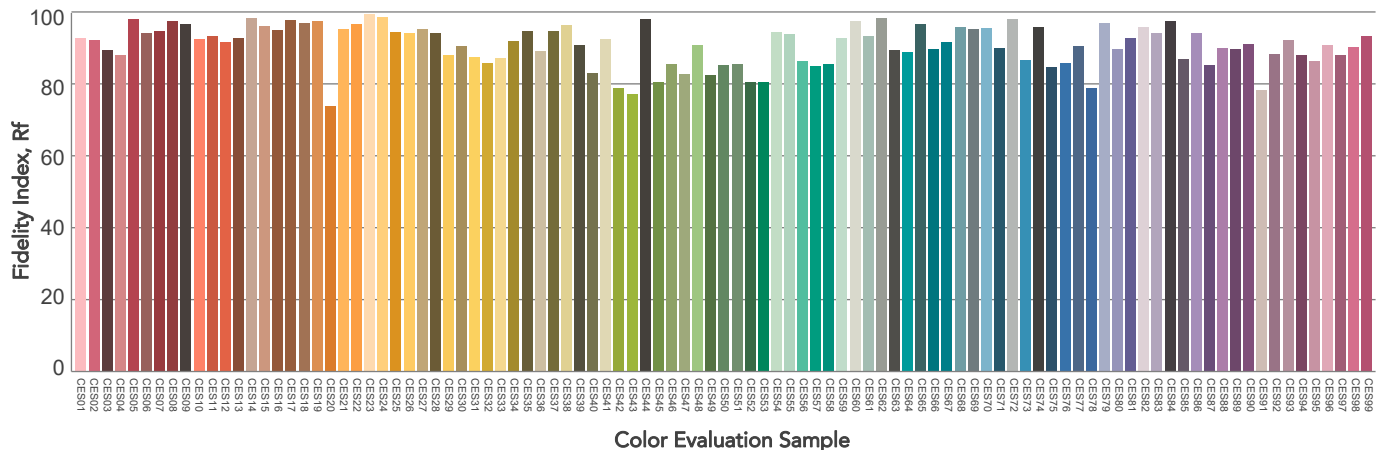
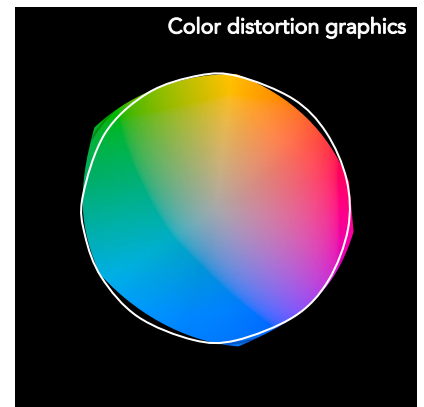
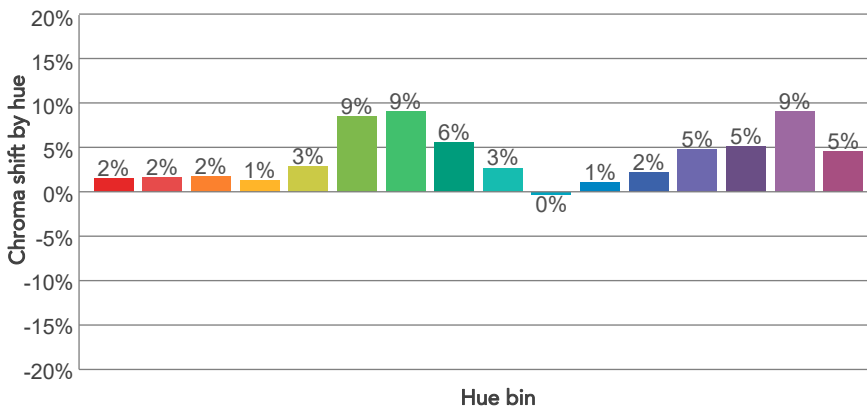
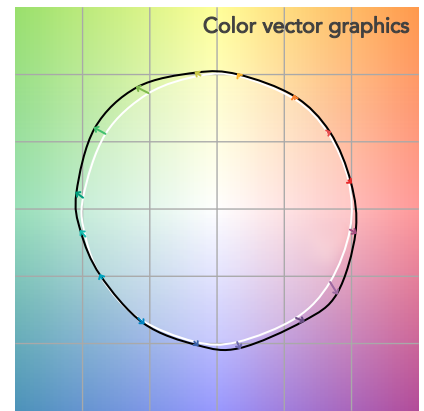
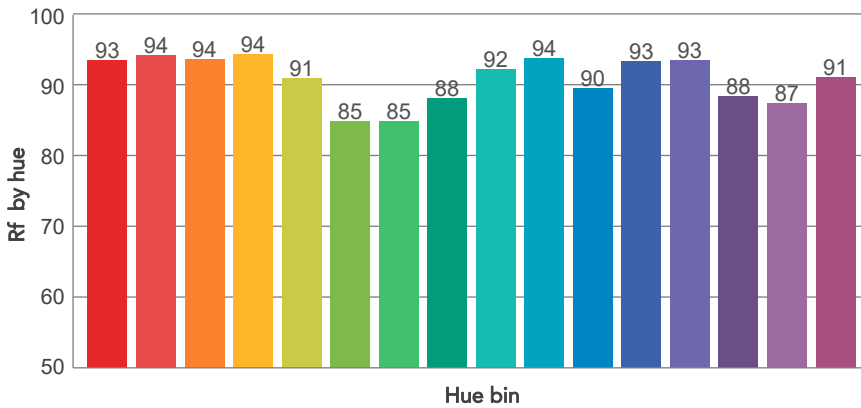
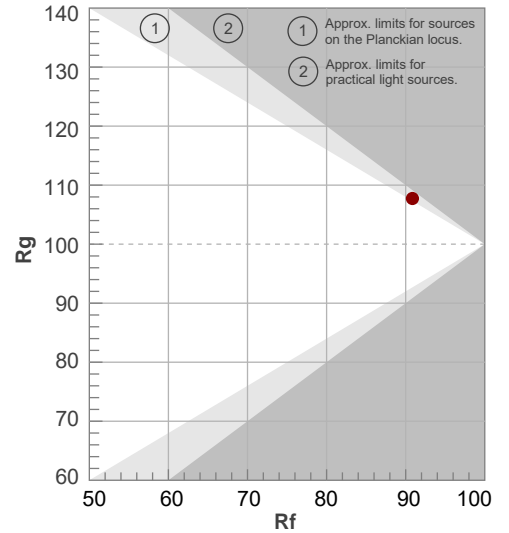
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5512 K	91,8	92,1	90,9	107,7	94,1	82	0,332	0,338	-0,0046

TM30 DETAILS

Rf 90,9
Fidelity index Rf

Rg 107,7
Gammut index

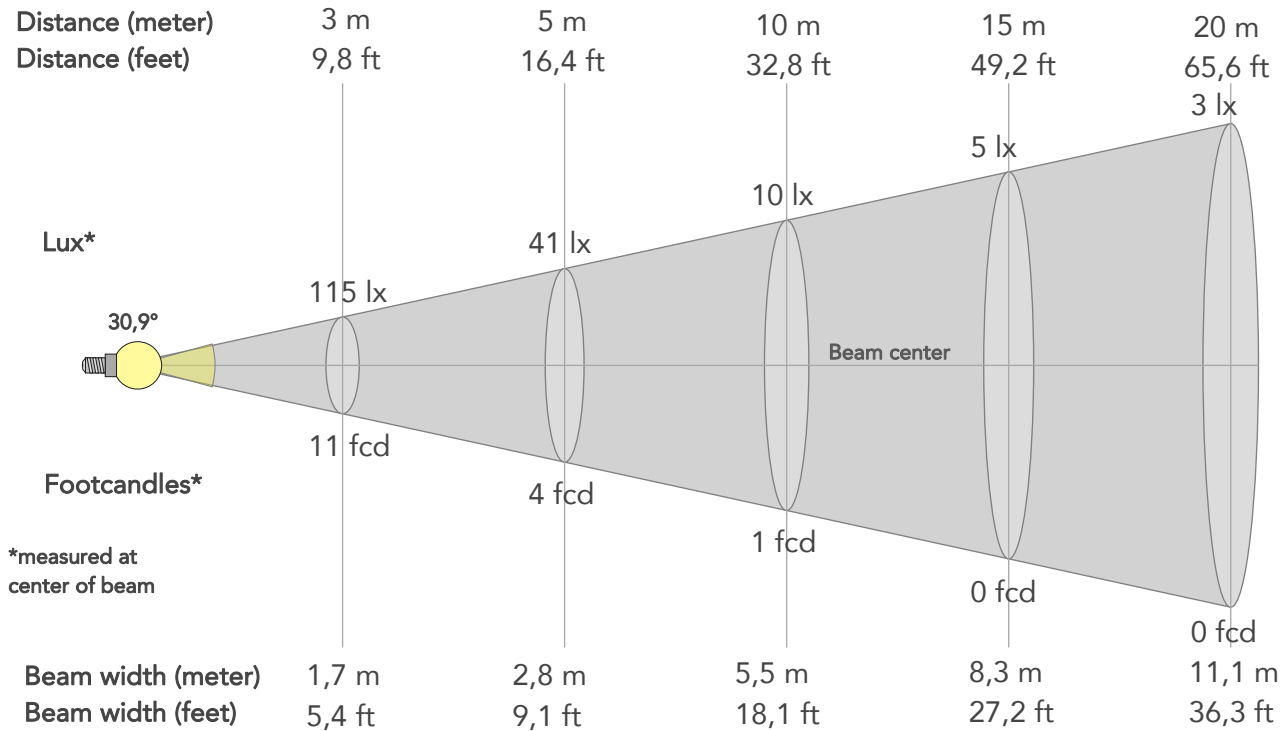
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	94	2%	0%
3	94	2%	2%
4	94	1%	1%
5	91	3%	3%
6	85	9%	5%
7	85	9%	1%
8	88	6%	-3%
9	92	3%	-4%
10	94	0%	-3%
11	90	1%	5%
12	93	2%	3%
13	93	5%	1%
14	88	5%	3%
15	87	9%	-4%
16	91	5%	-1%



BEAM DETAILS



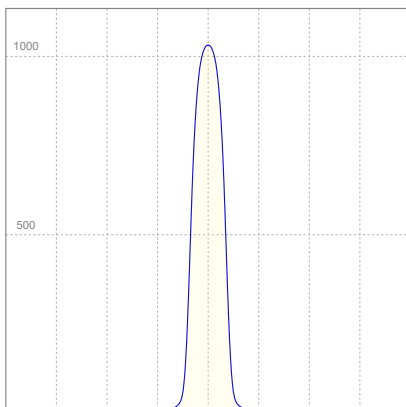
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,9°	42,1°	52,2°	99,8%	99,0%



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	1031lx	258lx	115lx	64lx	41lx	18lx	10lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	96fcd	24fcd	11fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,1m	5,5m	8,3m	11,1m	13,8m	16,6m	22,1m	27,6m
Beam wid.	1,8ft	3,6ft	5,4ft	7,2ft	9,1ft	13,6ft	18,1ft	27,2ft	36,3ft	45,3ft	54,4ft	72,5ft	90,7ft

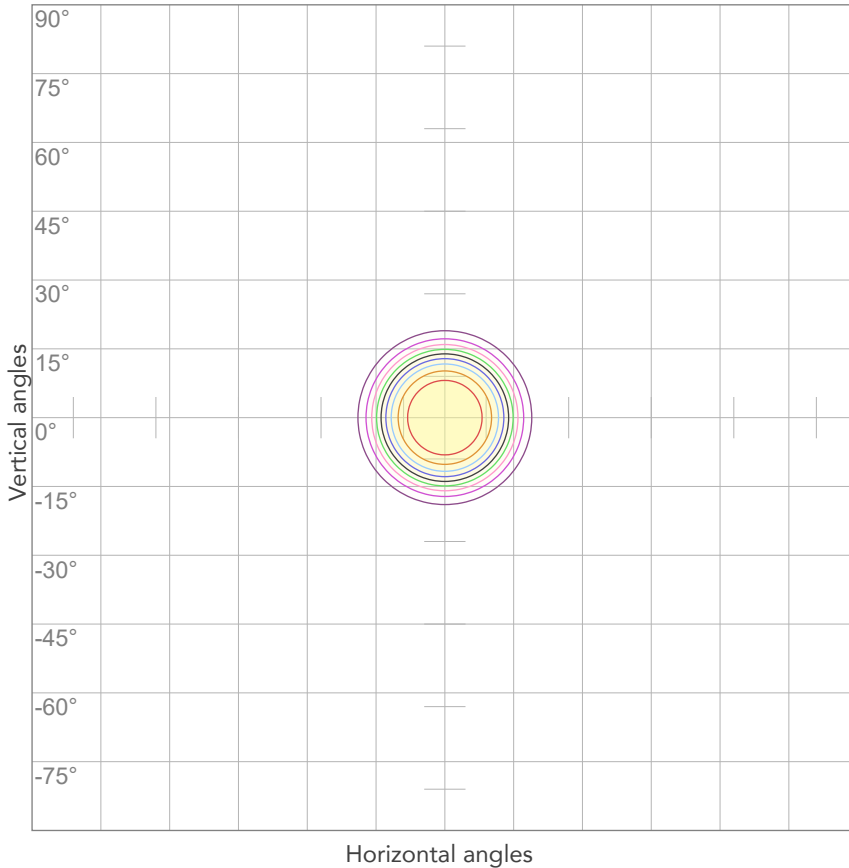
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,126A	26,0W	10lm/W

ISO CANDELA DIAGRAM



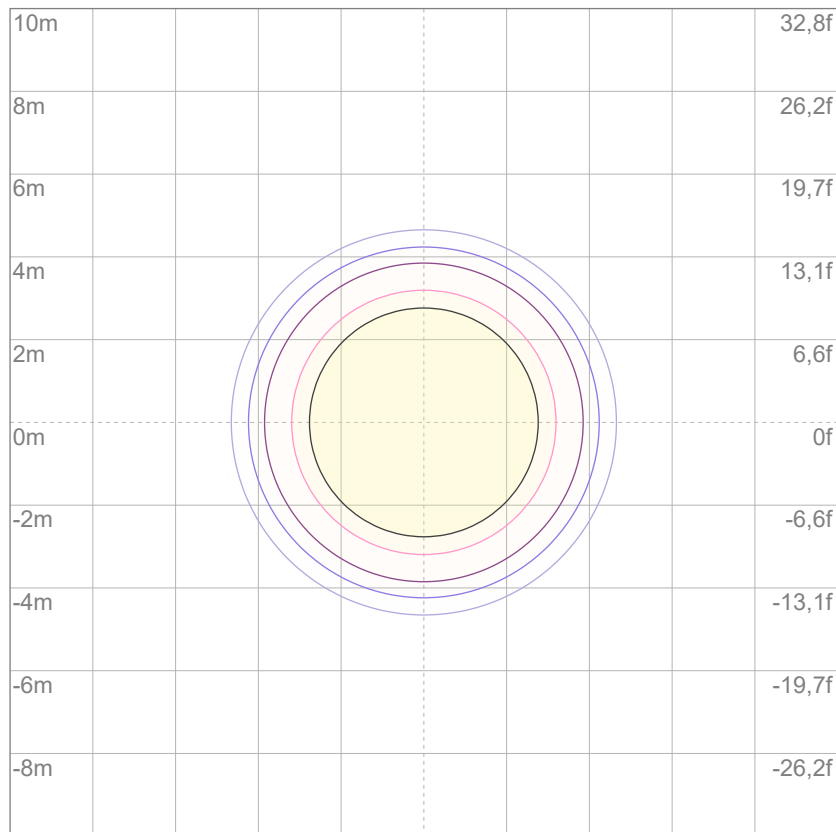
10%	103 cd
20%	206 cd
30%	309 cd
40%	413 cd
50%	516 cd
60%	619 cd
70%	722 cd
80%	825 cd

Conditions:

Number of c-planes: 2

Candela at center: 1031 cd

ISO LUX DIAGRAM



3%	0,309 lx
5%	0,516 lx
10%	1,03 lx
30%	3,09 lx
50%	5,16 lx

Conditions:

Number of c-planes: 2

Lux at center: 10,3 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

345 lm

Peak candela output:

417 cd

Light quality:

CRI: 91,6

Color temperature:

6088 K

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

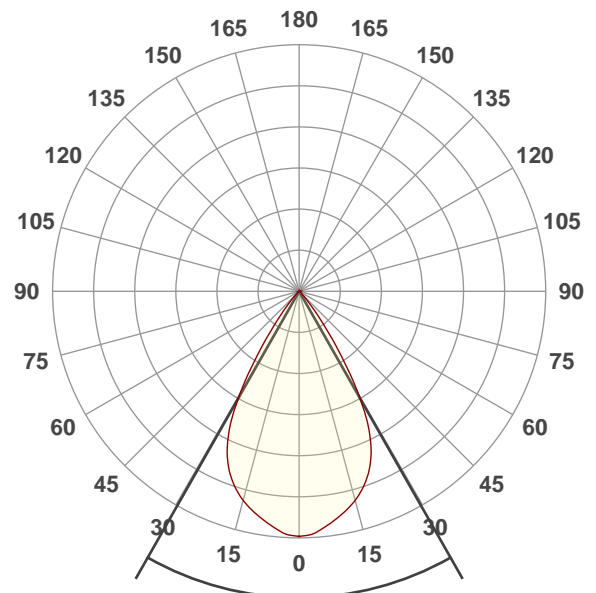
6000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:48:17

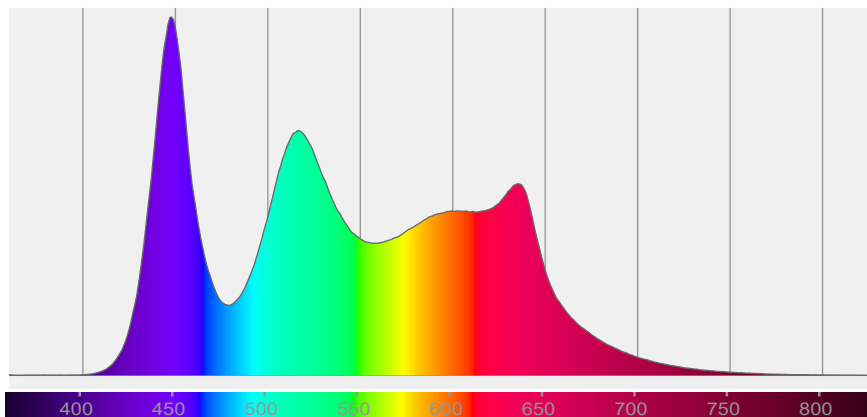


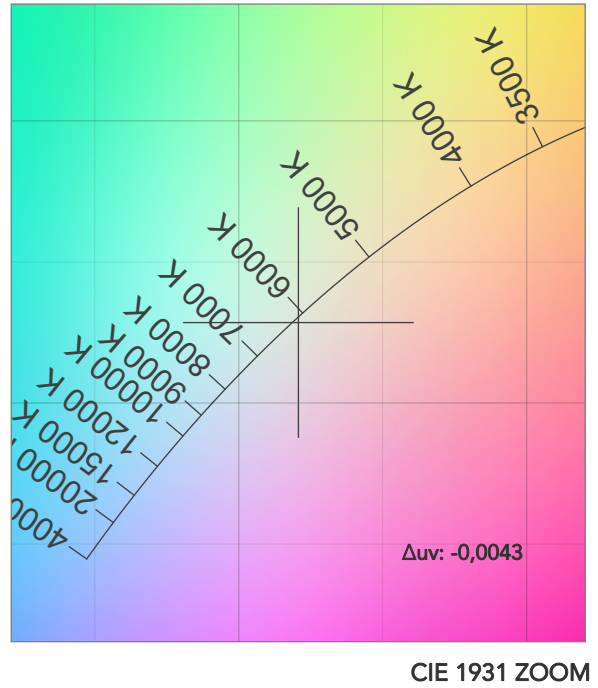
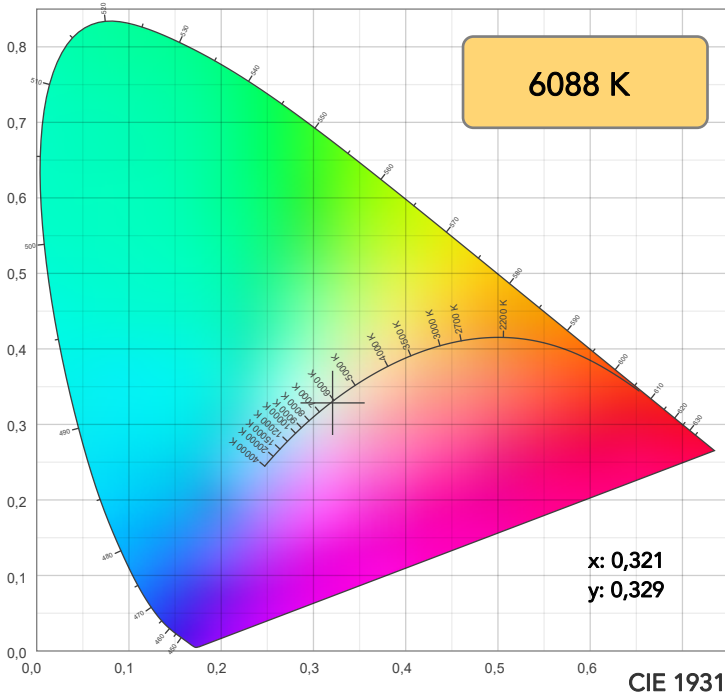
Beam angle 50%: 59,2°

Field angle 10%: 77,7°

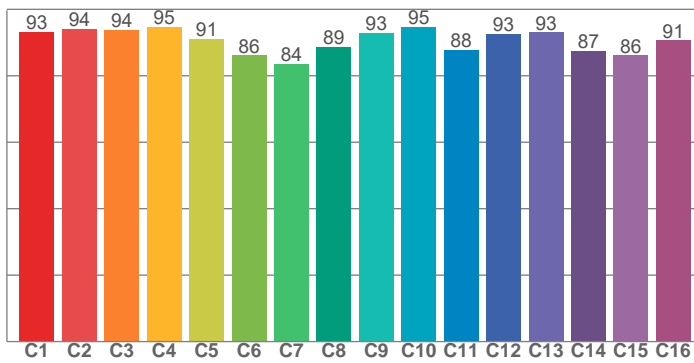
Cut off angle 2.5%: 89,5°

Spectra

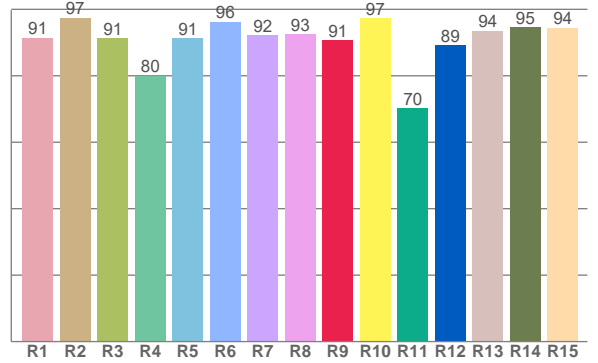




TM30: 90,7



CRI: 91,6 (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
91,5	97,4	91,3	80,0	91,3	96,3	92,3	92,5	90,7	97,4	70,2	89,2	93,5	94,5	94,5

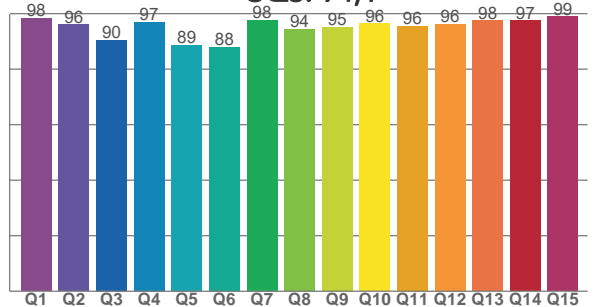
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,3	94,1	93,9	94,7	91,0	86,1	83,6	88,6	92,8	94,7	87,8	92,6	93,0	87,5	86,1	90,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,3	96,1	90,4	96,9	88,7	87,9	97,7	94,4	95,2	96,4	95,6	96,2	97,5	97,5	98,9

CQS: 94,1



COLOR PARAMETERS

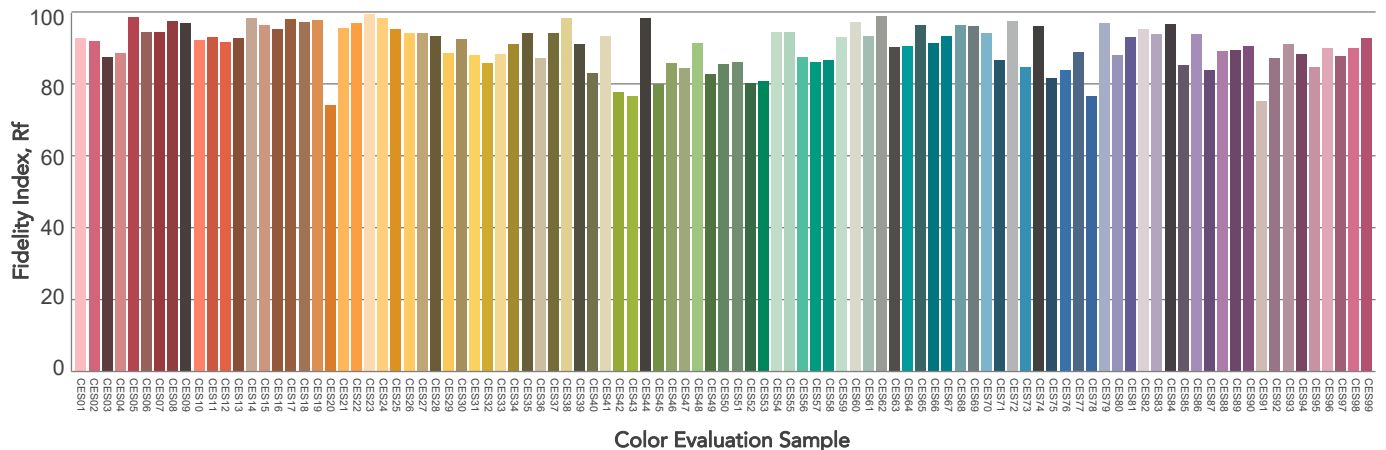
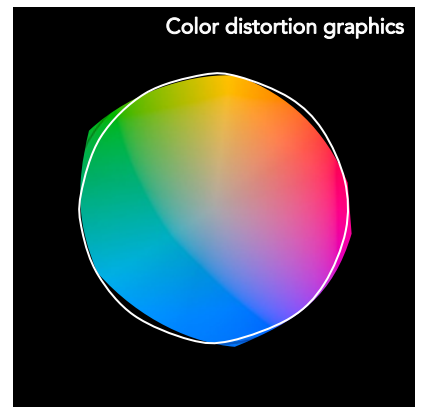
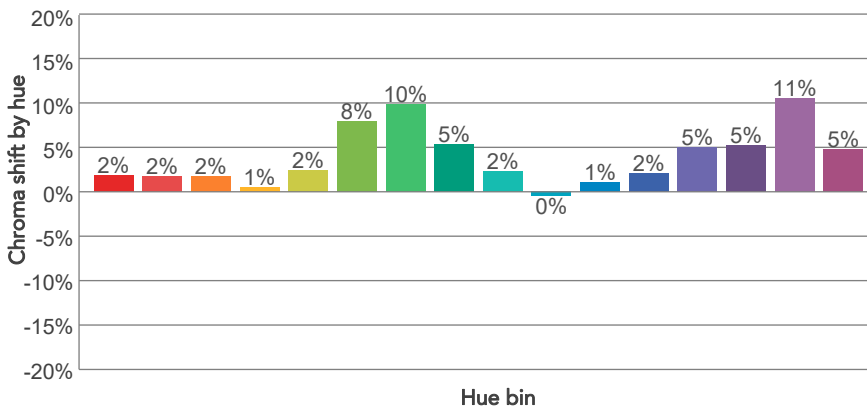
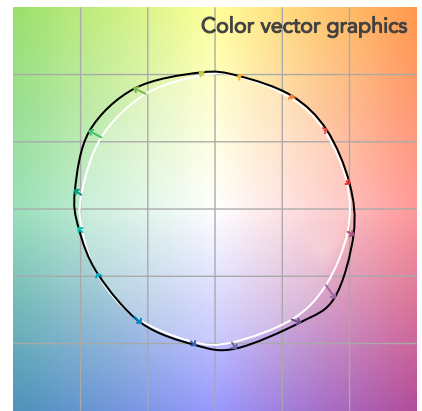
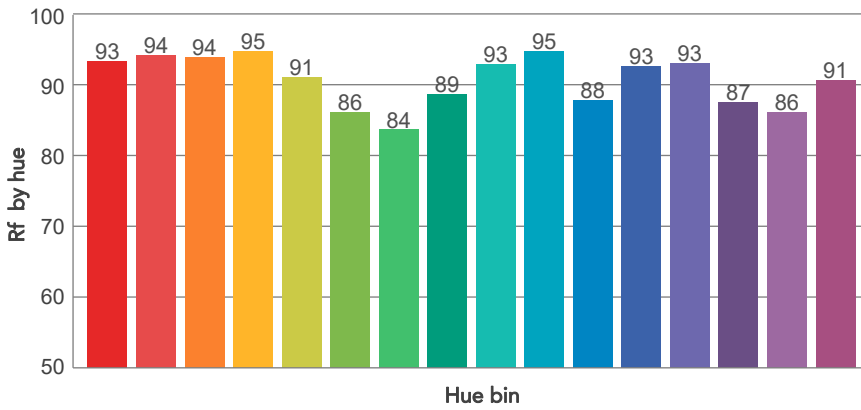
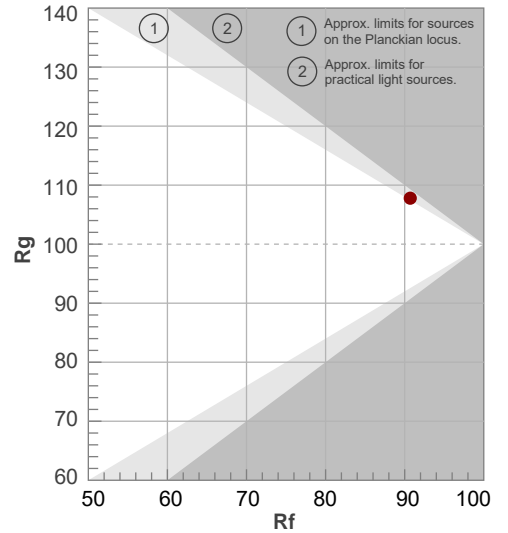
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6088 K	91,6	90,7	90,7	107,8	94,1	83	0,321	0,329	-0,0043

TM30 DETAILS

Rf 90,7
Fidelity index Rf

Rg 107,8
Gammut index

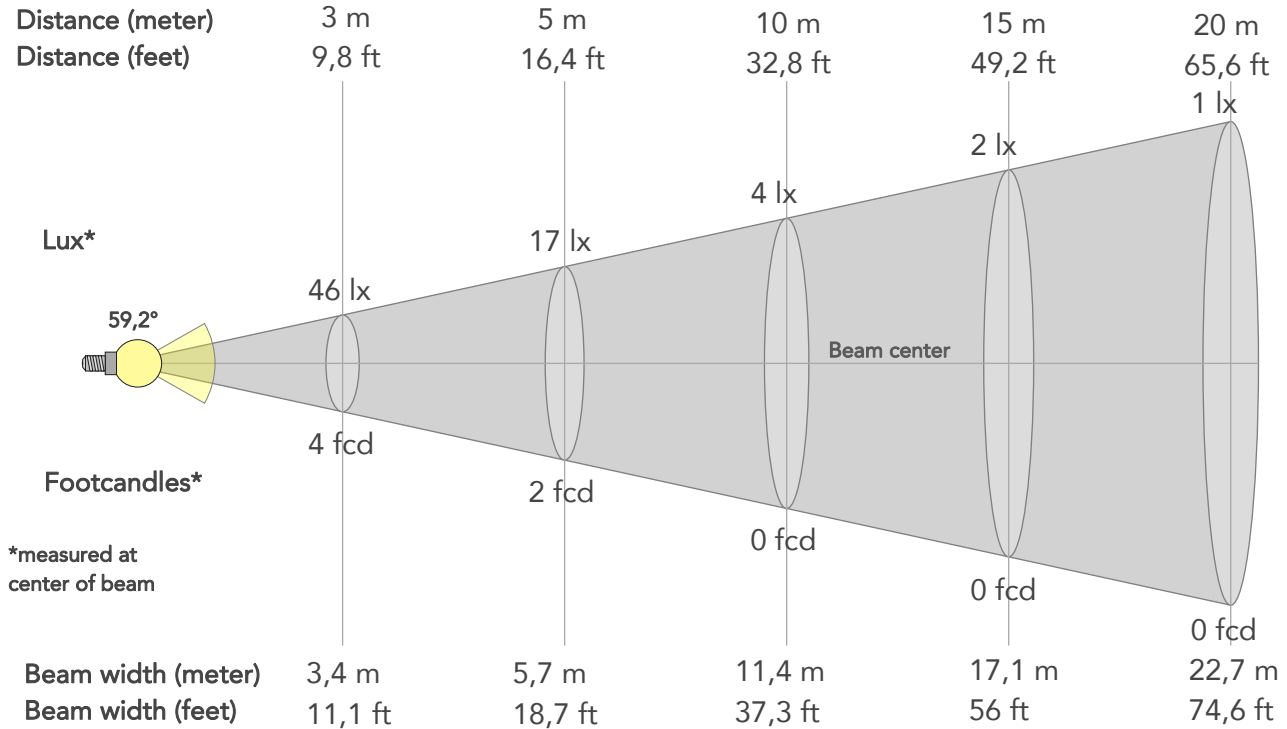
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	94	2%	0%
3	94	2%	1%
4	95	1%	1%
5	91	2%	2%
6	86	8%	5%
7	84	10%	1%
8	89	5%	-2%
9	93	2%	-4%
10	95	0%	-2%
11	88	1%	6%
12	93	2%	4%
13	93	5%	2%
14	87	5%	4%
15	86	11%	-4%
16	91	5%	-1%



BEAM DETAILS



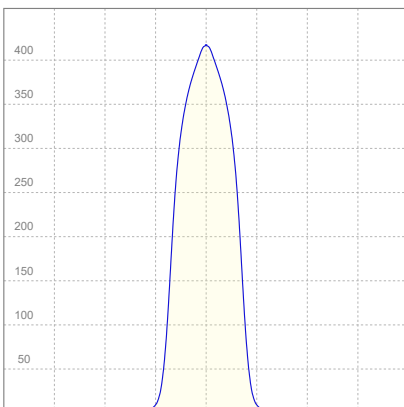
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,2°	77,7°	89,5°	99,5%	98,0%



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	417lx	104lx	46lx	26lx	17lx	7lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	39fcd	10fcd	4fcd	2fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,5m	5,7m	8,5m	11,4m	17,1m	22,7m	28,4m	34,1m	45,5m	56,9m
Beam wid.	3,8ft	7,5ft	11,1ft	14,9ft	18,7ft	28ft	37,3ft	56ft	74,6ft	93,3ft	111,9ft	149,2ft	186,5ft

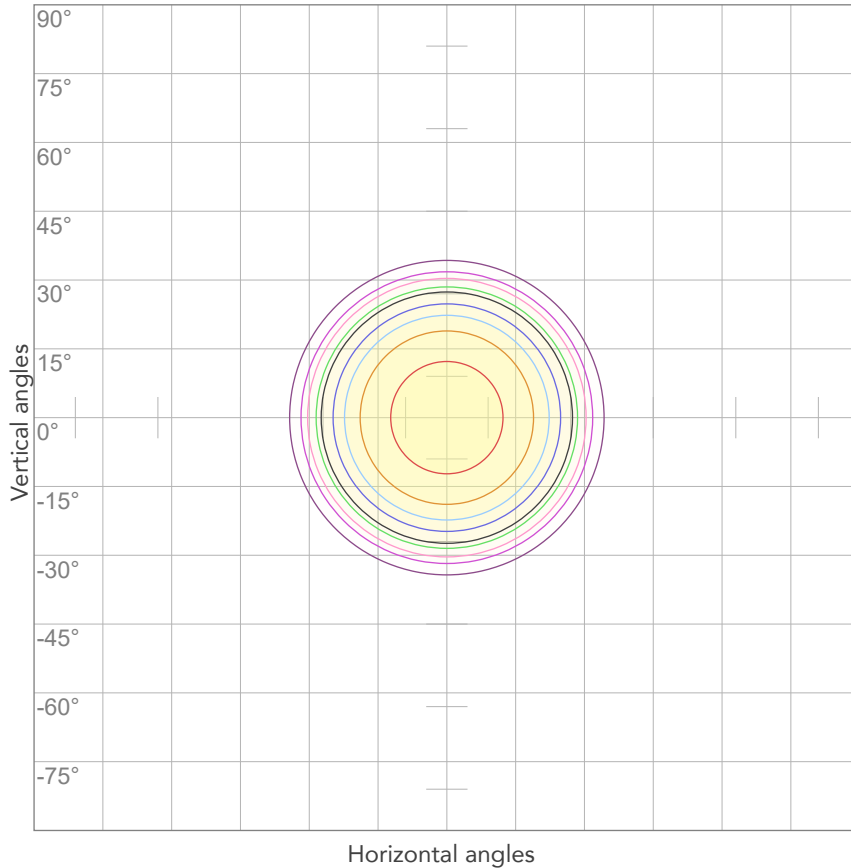
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,128A	26,5W	13lm/W

ISO CANDELA DIAGRAM



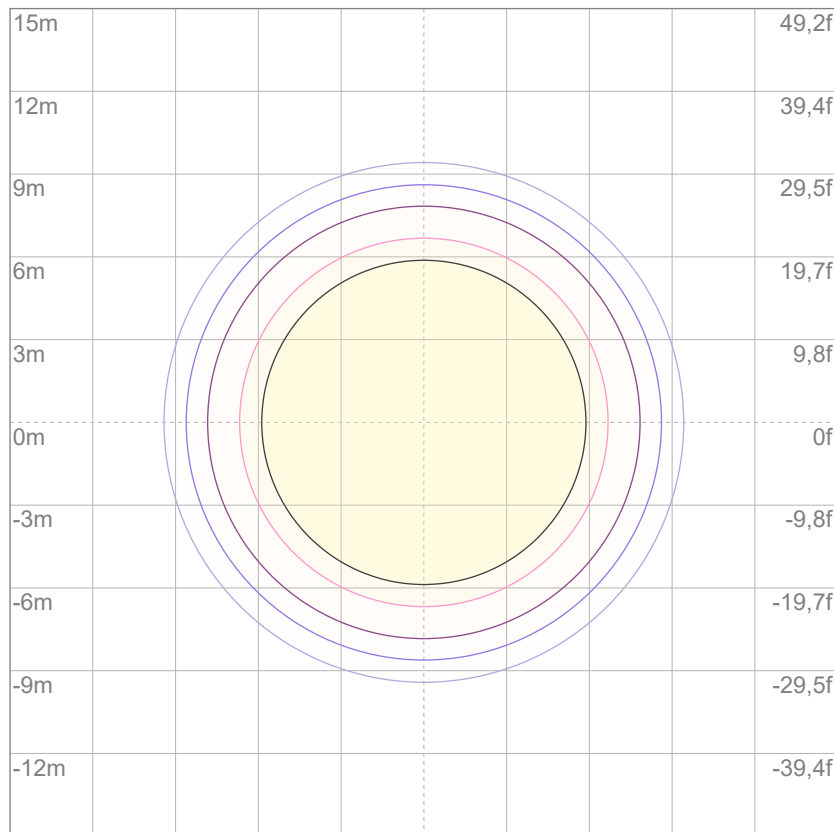
10%	42 cd
20%	83 cd
30%	125 cd
40%	167 cd
50%	208 cd
60%	250 cd
70%	292 cd
80%	334 cd

Conditions:

Number of c-planes: 2

Candela at center: 417 cd

ISO LUX DIAGRAM



3%	0,125 lx
5%	0,208 lx
10%	0,417 lx
30%	1,25 lx
50%	2,08 lx

Conditions:

Number of c-planes: 2

Lux at center: 4,17 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

266 lm

Peak candela output:

1047 cd

Light quality:

CRI: 91,5

Color temperature:

5949 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

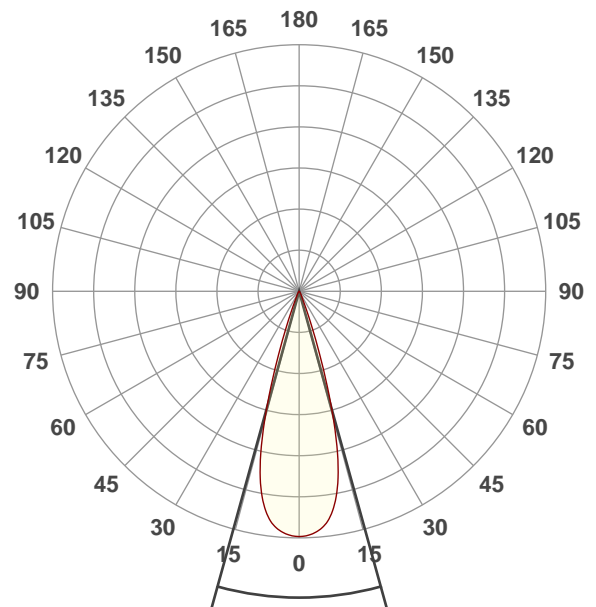
6000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:46:35

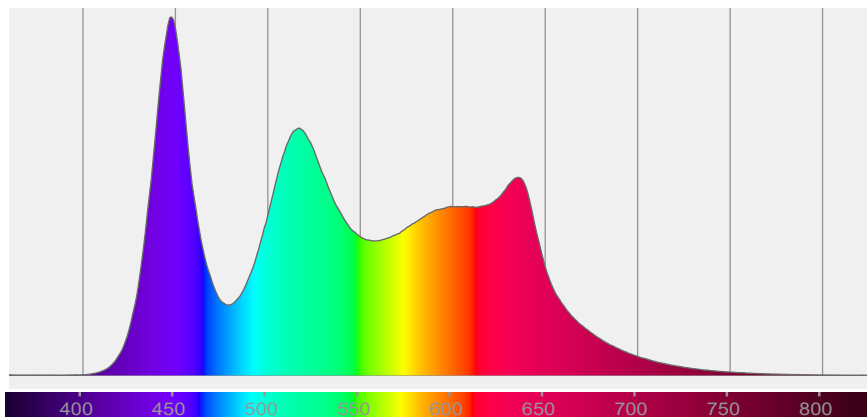


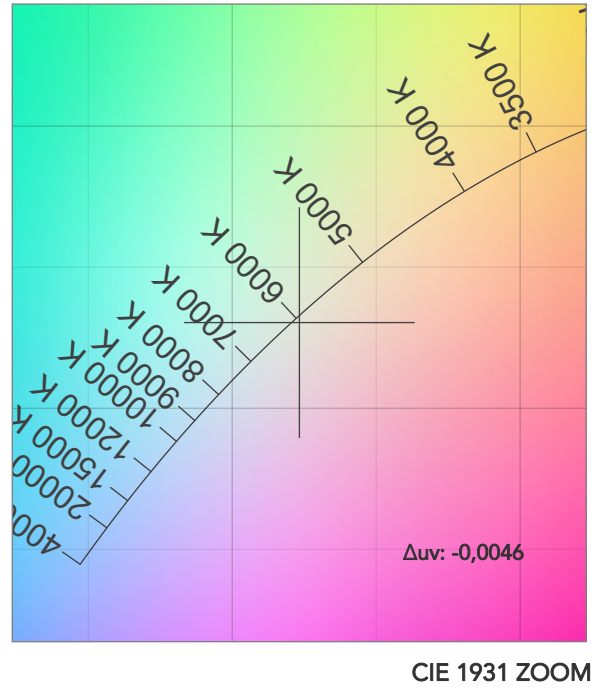
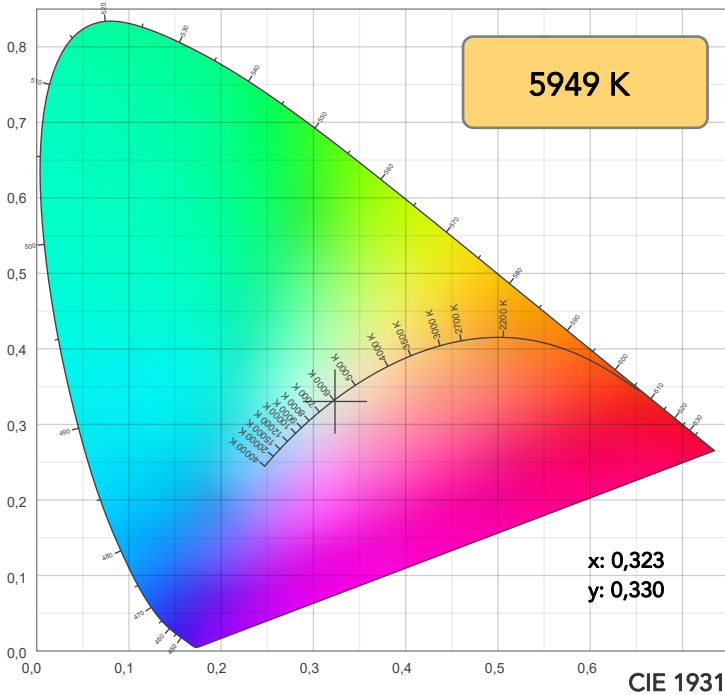
Beam angle 50%: 30,9°

Field angle 10%: 42°

Cut off angle 2.5%: 51,9°

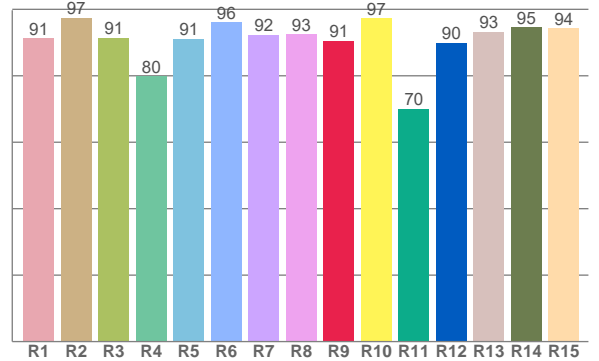
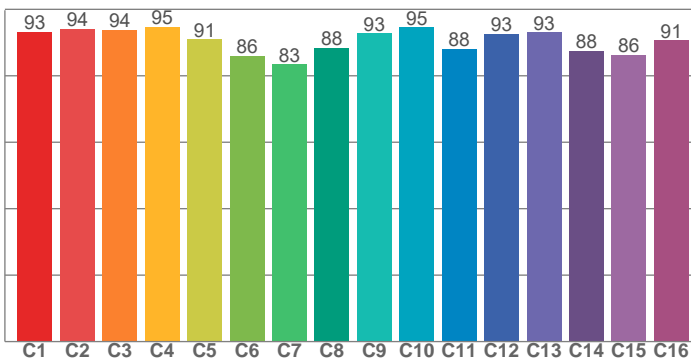
Spectra





TM30: 90,7

CRI: 91,5 (R1-R8)



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

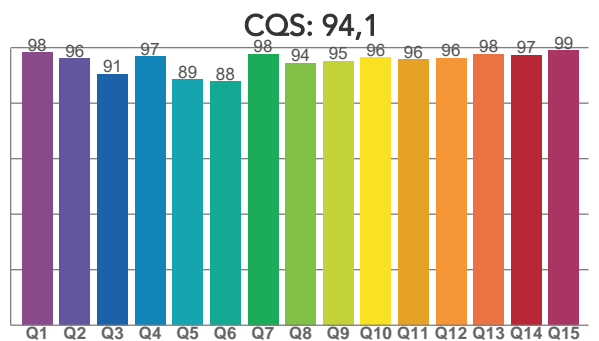
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,3	97,5	91,5	79,9	91,1	96,0	92,3	92,5	90,6	97,3	70,1	89,9	93,3	94,6	94,3

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
93,3	94,1	93,8	94,7	90,9	86,0	83,5	88,4	92,7	94,5	88,0	92,6	93,1	87,5	86,3	90,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,2	96,1	90,5	96,8	88,5	87,7	97,7	94,5	95,2	96,4	95,6	96,3	97,6	97,4	98,9



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
5949 K	91,5	90,6	90,7	107,9	94,1	83	0,323	0,330	-0,0046

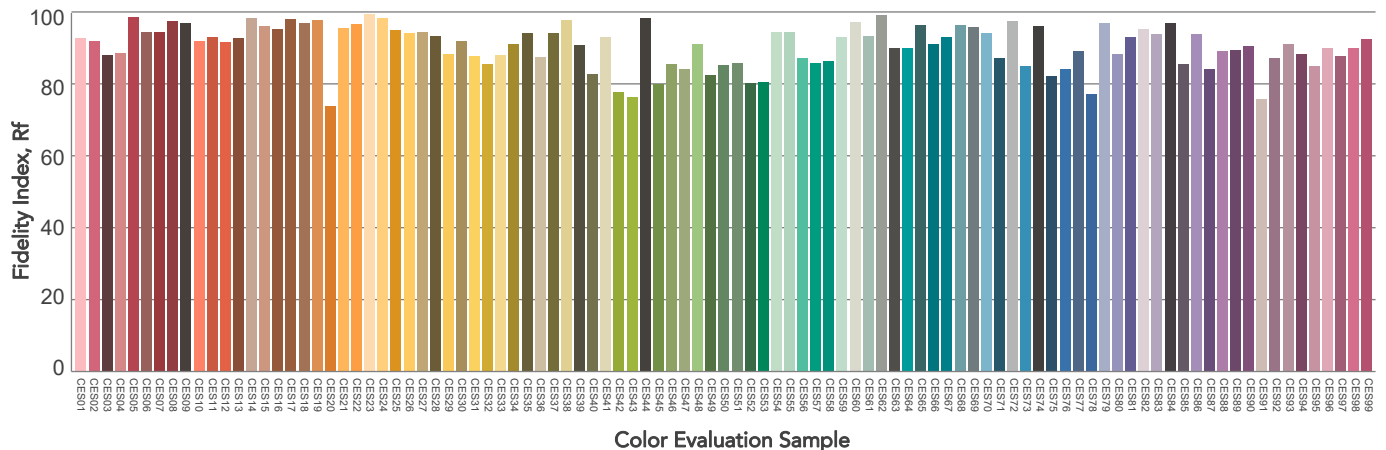
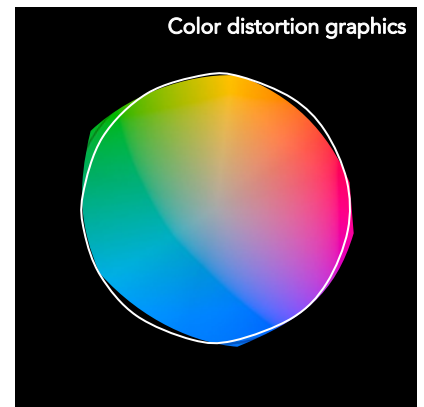
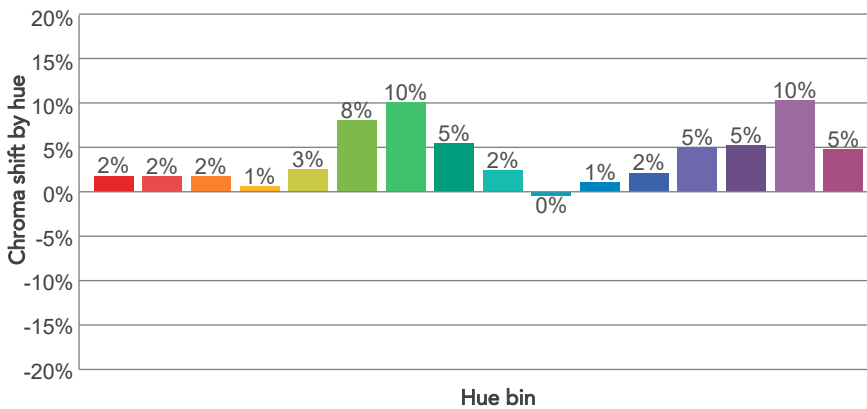
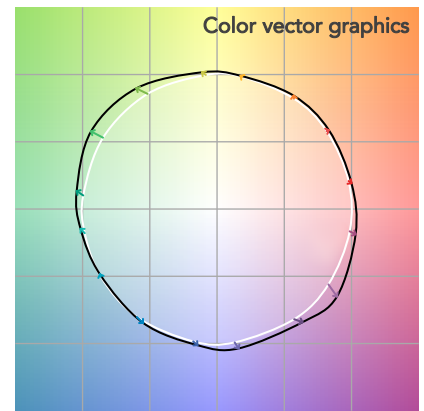
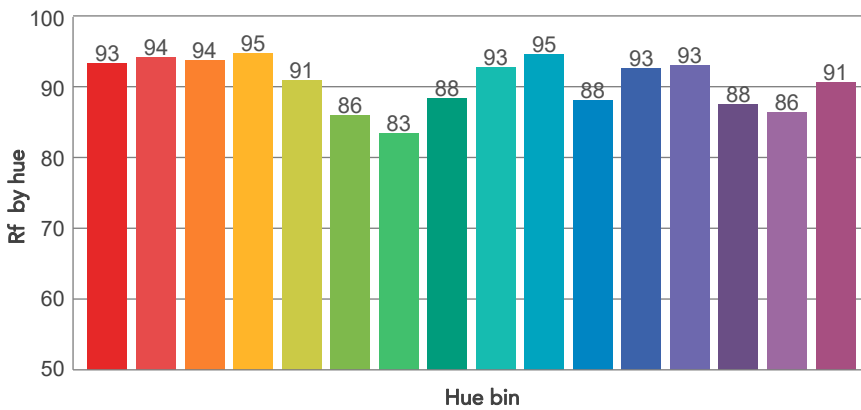
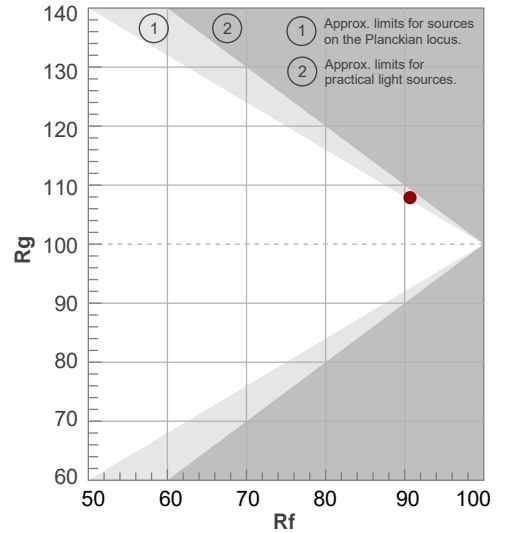
TM30 DETAILS



Rf 90,7
Fidelity index Rf

Rg 107,9
Gammut index

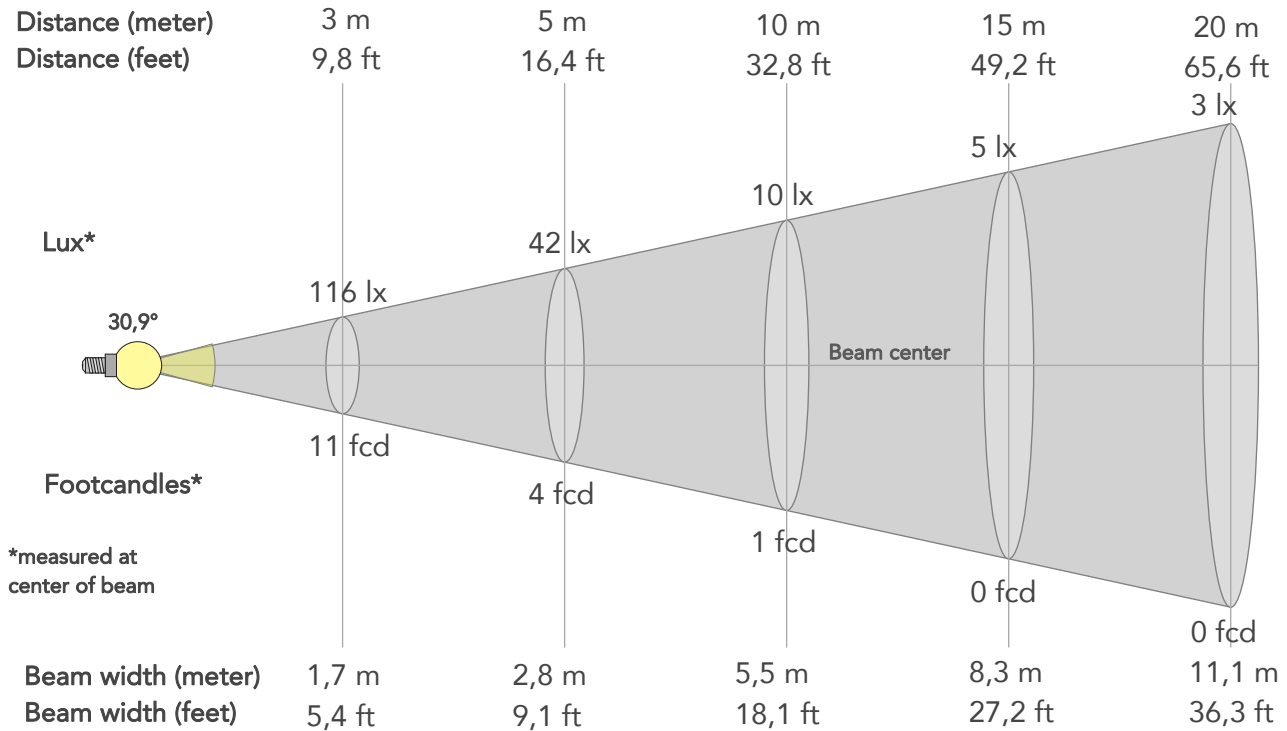
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	94	2%	0%
3	94	2%	2%
4	95	1%	1%
5	91	3%	2%
6	86	8%	5%
7	83	10%	1%
8	88	5%	-2%
9	93	2%	-4%
10	95	0%	-2%
11	88	1%	6%
12	93	2%	4%
13	93	5%	2%
14	88	5%	4%
15	86	10%	-4%
16	91	5%	-1%



BEAM DETAILS



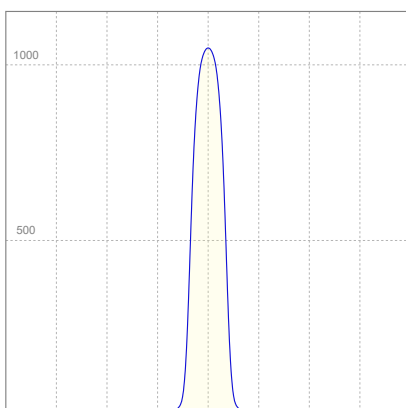
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,9°	42°	51,9°	99,8%	99,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1047lx	262lx	116lx	65lx	42lx	19lx	10lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	97fcd	24fcd	11fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,1m	5,5m	8,3m	11,1m	13,8m	16,6m	22,1m	27,6m
Beam wid.	1,8ft	3,6ft	5,4ft	7,2ft	9,1ft	13,6ft	18,1ft	27,2ft	36,3ft	45,3ft	54,4ft	72,6ft	90,7ft

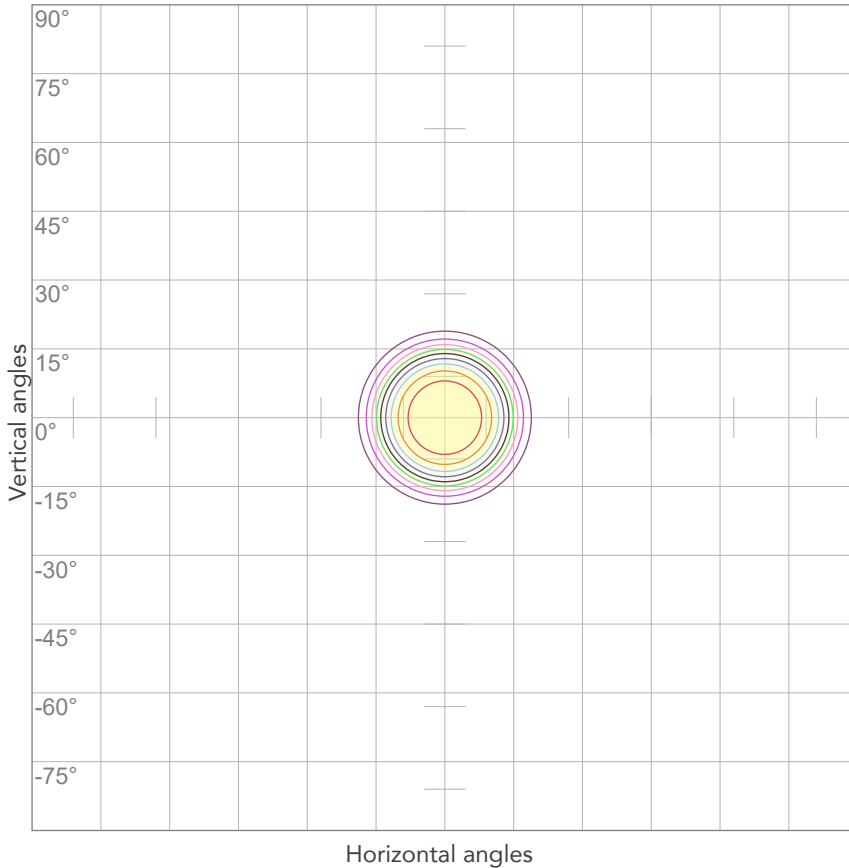
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,128A	26,5W	10lm/W

ISO CANDELA DIAGRAM



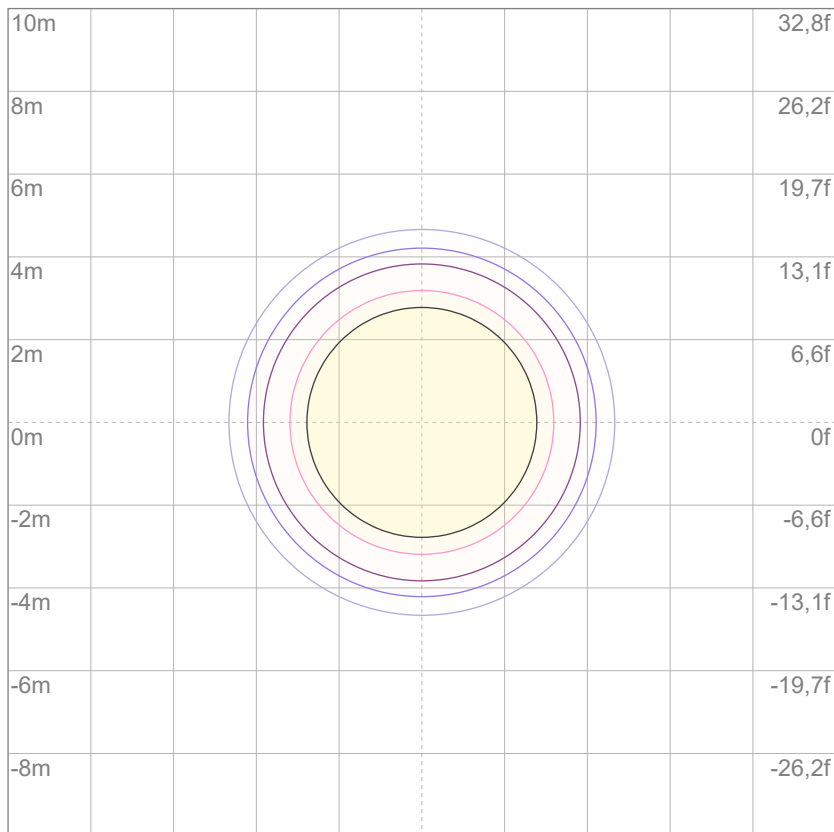
10%	105 cd
20%	209 cd
30%	314 cd
40%	419 cd
50%	524 cd
60%	628 cd
70%	733 cd
80%	838 cd

Conditions:

Number of c-planes: 2

Candela at center: 1047 cd

ISO LUX DIAGRAM



3%	0,314 lx
5%	0,524 lx
10%	1,05 lx
30%	3,14 lx
50%	5,24 lx

Conditions:

Number of c-planes: 2

Lux at center: 10,5 lx

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

Mounting height: 10 meters (33 feet)