

Photometric Test Report



ECLDISPLAYUNFC

ZOOMABLE WASH LENS 15-30°

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

DMX / Dali T8 / Knob-dimming /

Phase-cut 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 significant 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:

322 lm

Peak candela output:

1363 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

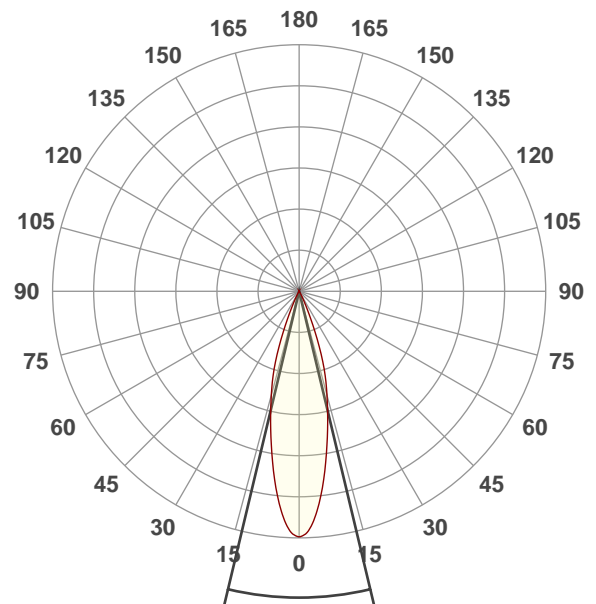
Full On

Operator:

Paolo Carvone

Date and time:

14/01/2021 11:52:44

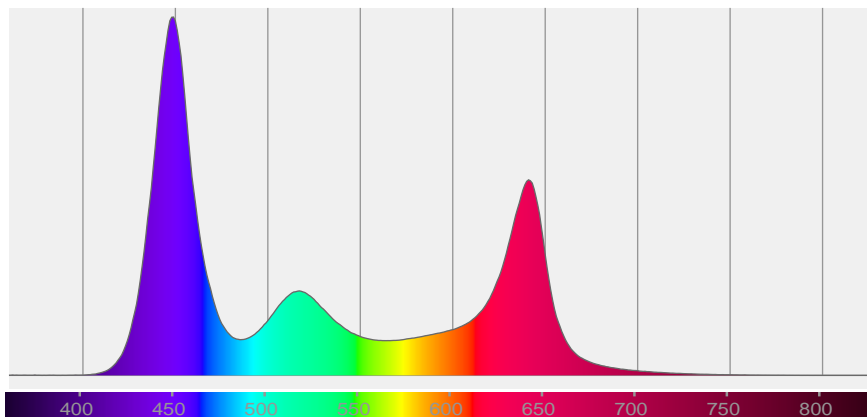


Beam angle 50%: 26,9°

Field angle 10%: 47,1°

Cut off angle 2.5%: 56,1°

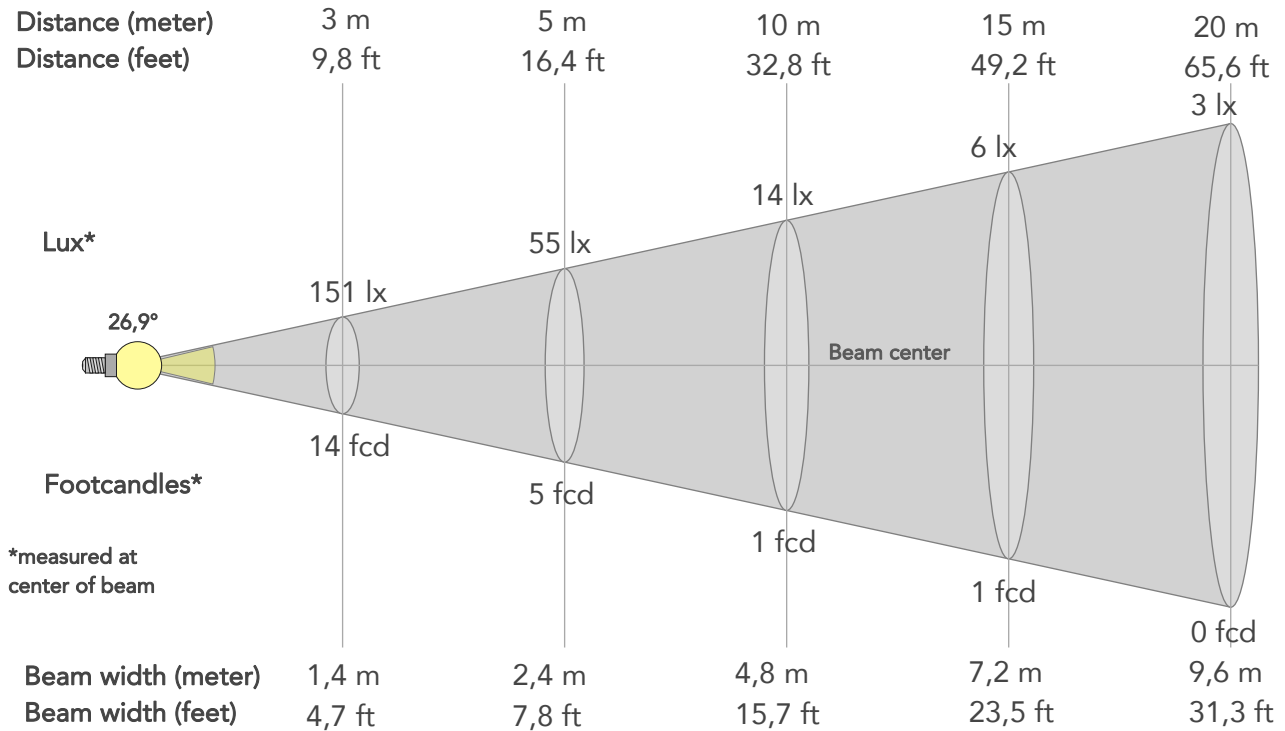
Spectra



BEAM DETAILS



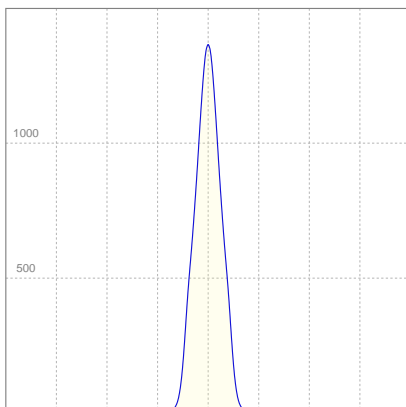
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,9°	47,1°	56,1°	100,0%	99,8%



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	1363lx	341lx	151lx	85lx	55lx	24lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	127fcd	32fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,6m	11,9m	14,3m	19,1m	23,9m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,8ft	11,7ft	15,7ft	23,5ft	31,3ft	39,2ft	47ft	62,6ft	78,3ft

LINEAR DISTRIBUTION DIAGRAM

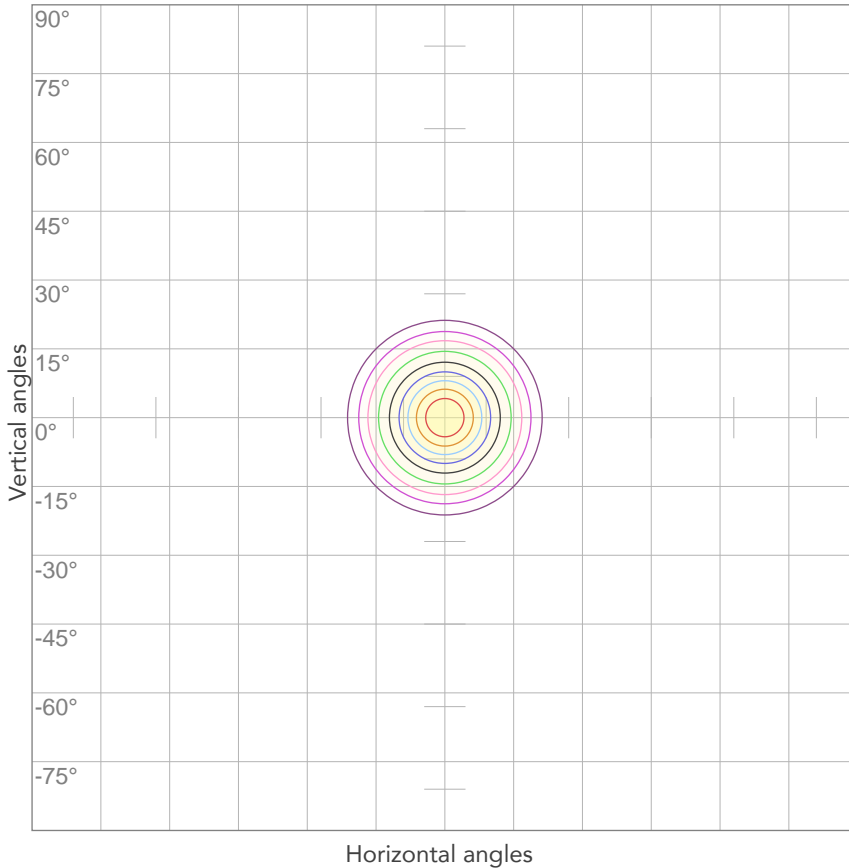


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,155A	32,6W	10lm/W

Power FC
0,94

ISO CANDELA DIAGRAM



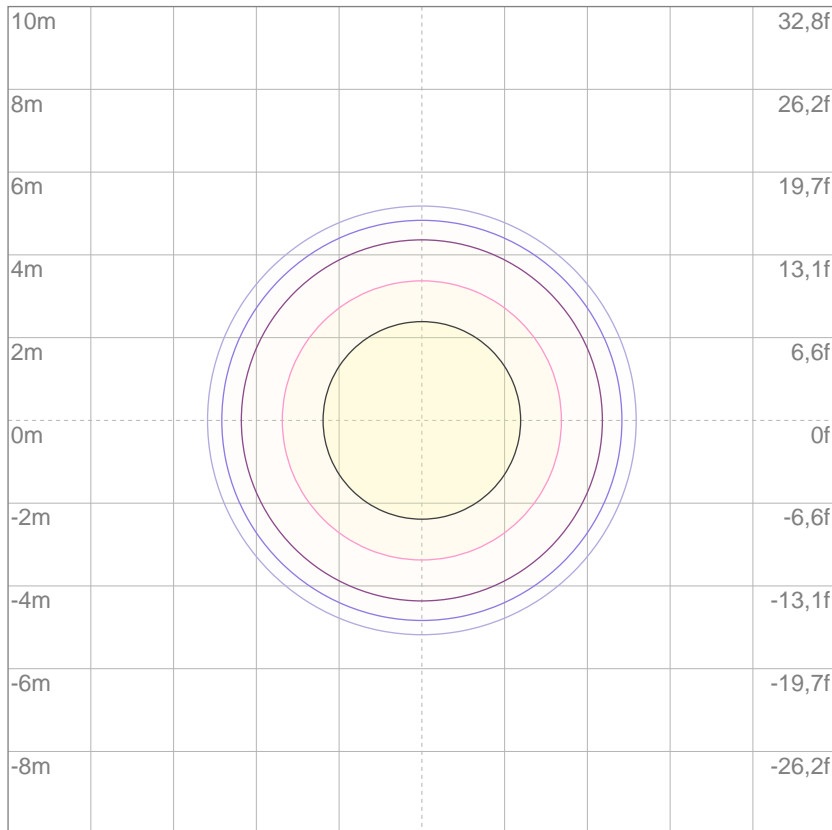
10%	136 cd
20%	273 cd
30%	409 cd
40%	545 cd
50%	681 cd
60%	818 cd
70%	954 cd
80%	1090 cd

Conditions:

Number of c-planes: 2

Candela at center: 1363 cd

ISO LUX DIAGRAM



3%	0,409 lx
5%	0,681 lx
10%	1,36 lx
30%	4,09 lx
50%	6,81 lx

Conditions:

Number of c-planes: 2

Lux at center: 13,6 lx

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



Total lumen output:

289 lm

Peak candela output:

2843 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

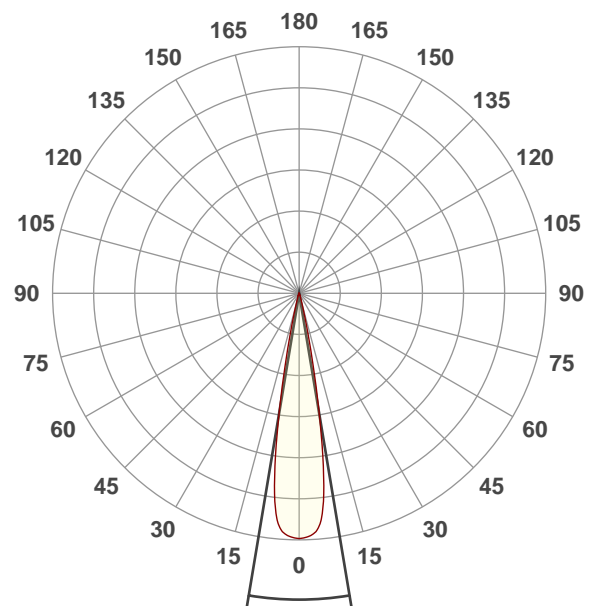
Full On

Operator:

Paolo Carvone

Date and time:

14/01/2021 11:50:04

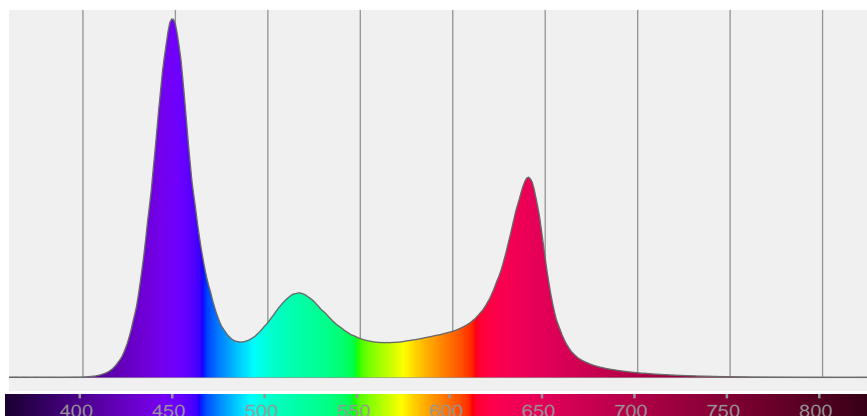


Beam angle 50%: 18,9°

Field angle 10%: 27°

Cut off angle 2.5%: 34,2°

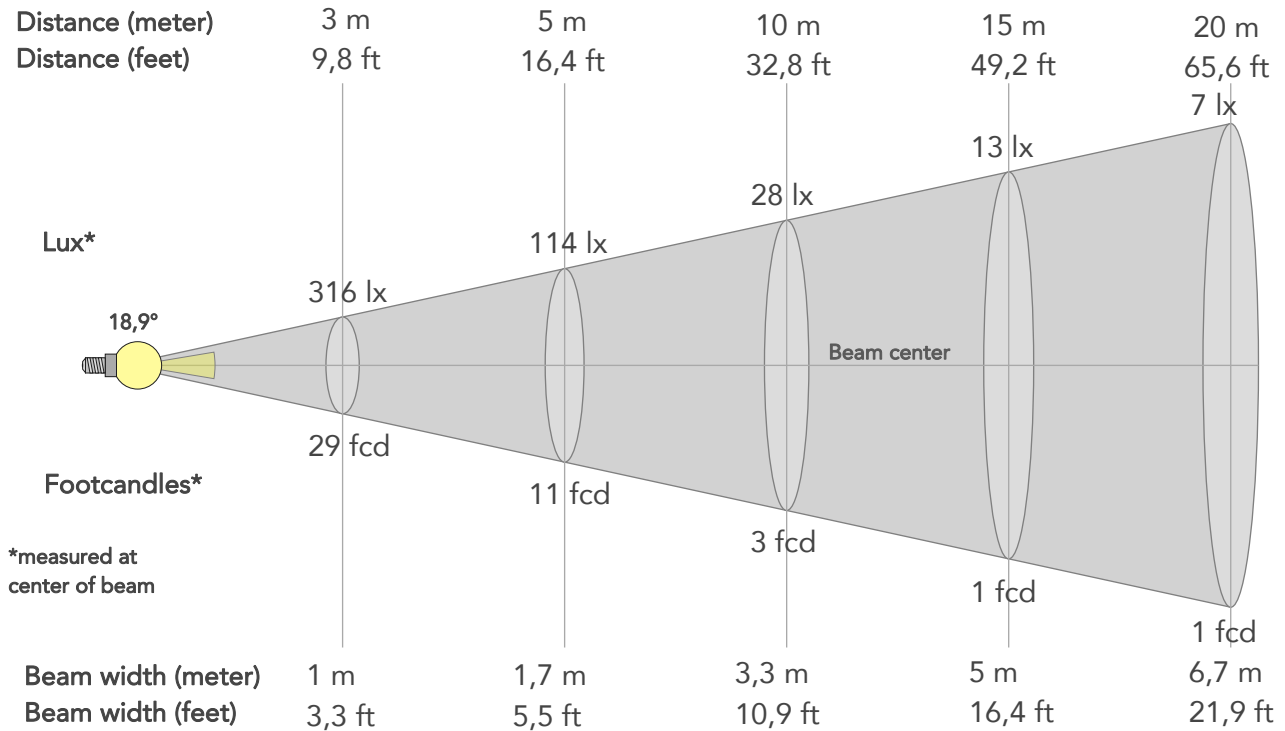
Spectra



BEAM DETAILS



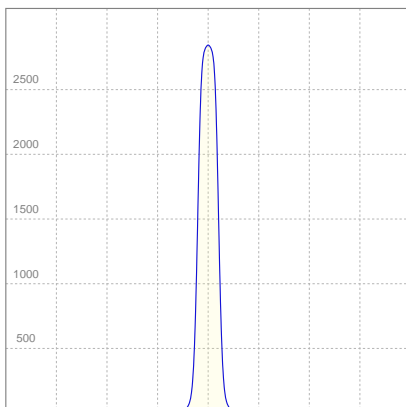
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,9°	27°	34,2°	100,0%	99,9%



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	2843lx	711lx	316lx	178lx	114lx	51lx	28lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	264fcd	66fcd	29fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,7m	8,3m	10m	13,3m	16,7m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,2ft	10,9ft	16,4ft	21,9ft	27,4ft	32,8ft	43,8ft	54,7ft

LINEAR DISTRIBUTION DIAGRAM

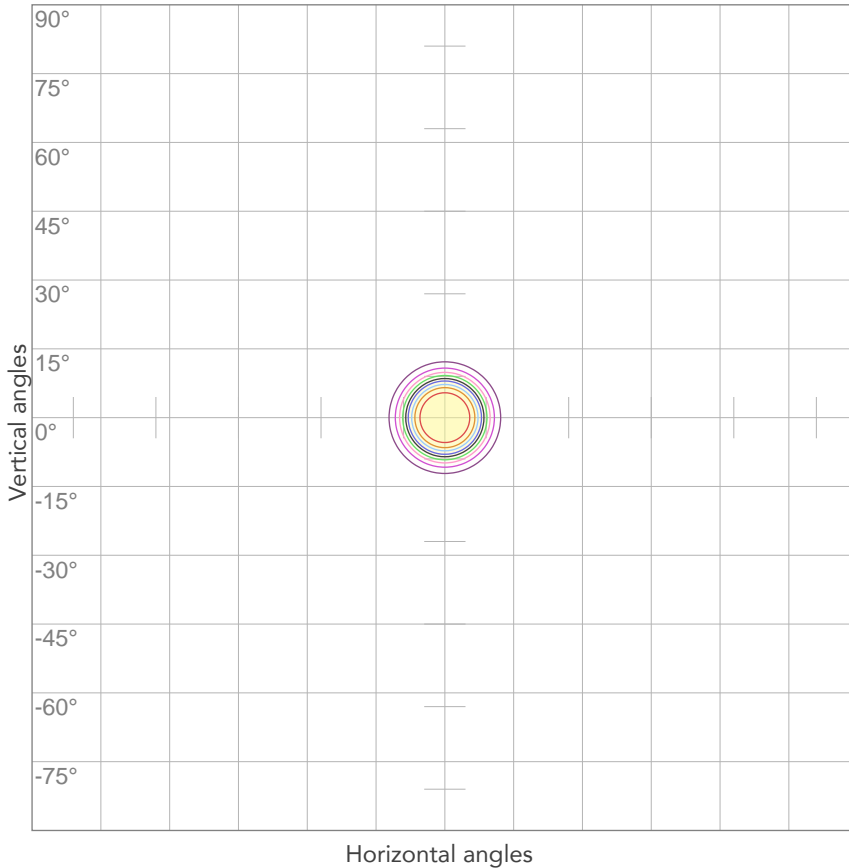


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,156A	32,6W	9lm/W

Power FC
0,94

ISO CANDELA DIAGRAM



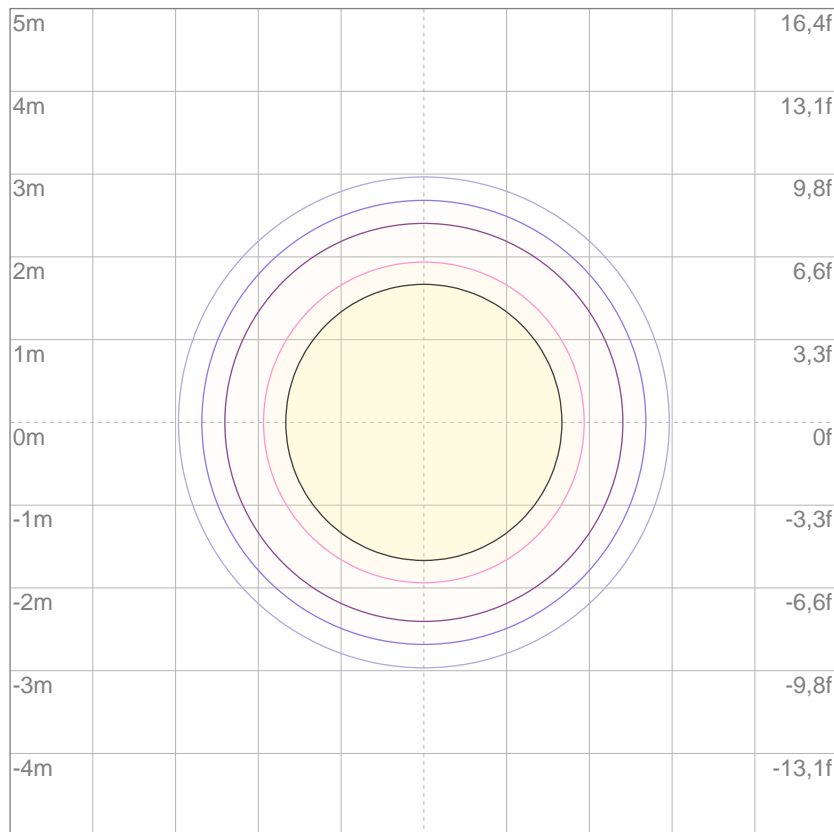
10%	284 cd
20%	569 cd
30%	853 cd
40%	1137 cd
50%	1421 cd
60%	1706 cd
70%	1990 cd
80%	2274 cd

Conditions:

Number of c-planes: 2

Candela at center: 2843 cd

ISO LUX DIAGRAM



3%	0,853 lx
5%	1,42 lx
10%	2,84 lx
30%	8,53 lx
50%	14,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 28,4 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:

81,6 lm

Peak candela output:

354 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

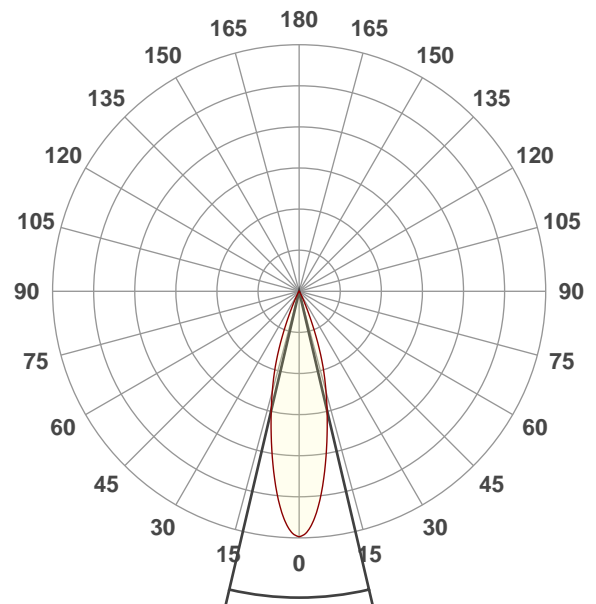
Red

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:33:12

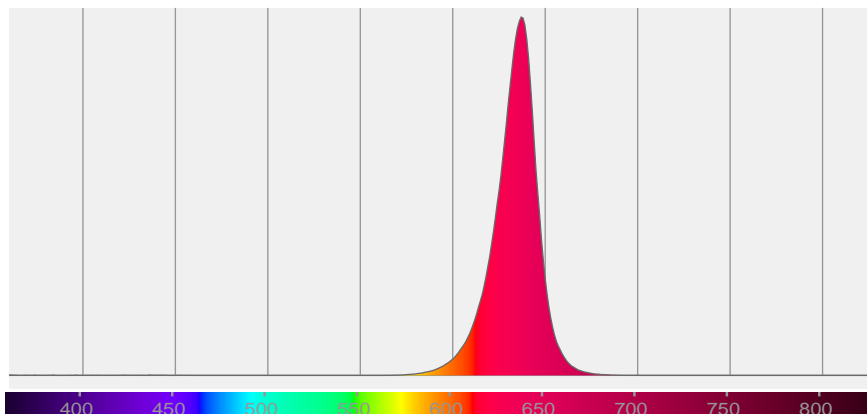


Beam angle 50%: 26,4°

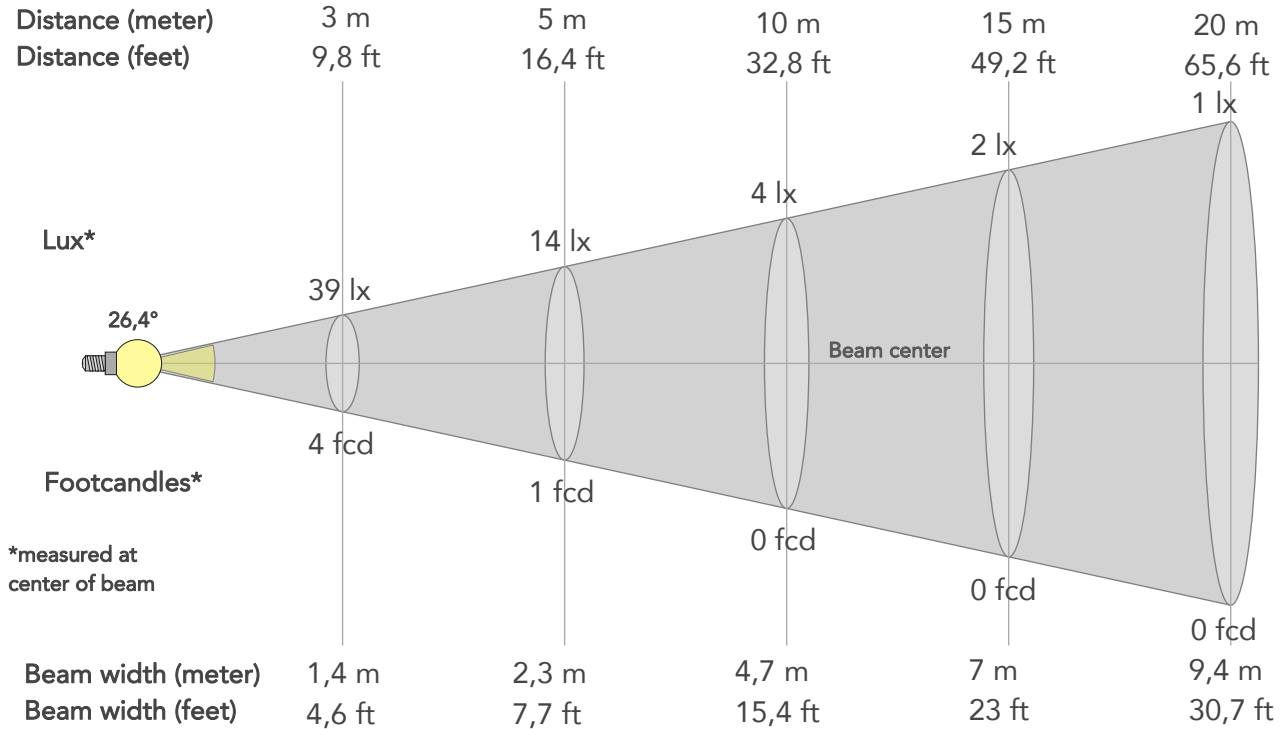
Field angle 10%: 46,3°

Cut off angle 2.5%: 55,7°

Spectra



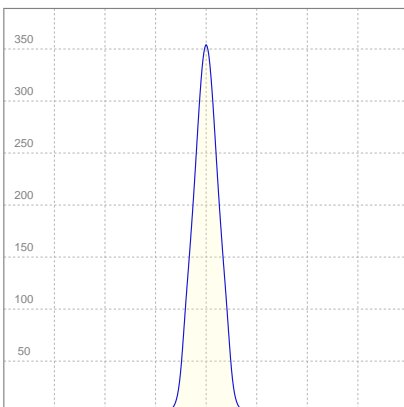
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,4°	46,3°	55,7°	99,8%	99,3%



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	354lx	88lx	39lx	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.	0,5m	0,9m	1,4m	1,9m	2,3m	3,5m	4,7m	7m	9,4m	11,7m	14,1m	18,7m	23,4m
Beam wid.	1,5ft	3,1ft	4,6ft	6,1ft	7,7ft	11,5ft	15,4ft	23ft	30,7ft	38,4ft	46,1ft	61,5ft	76,8ft

LINEAR DISTRIBUTION DIAGRAM

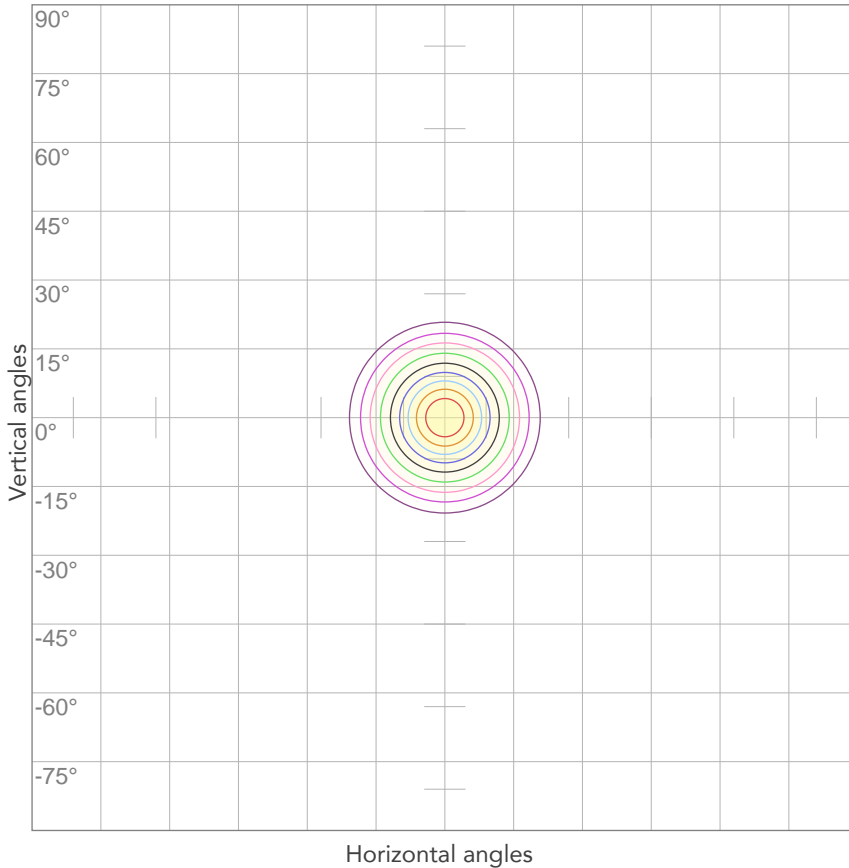


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,071A	13,6W	6lm/W

Power FC
0,85

ISO CANDELA DIAGRAM

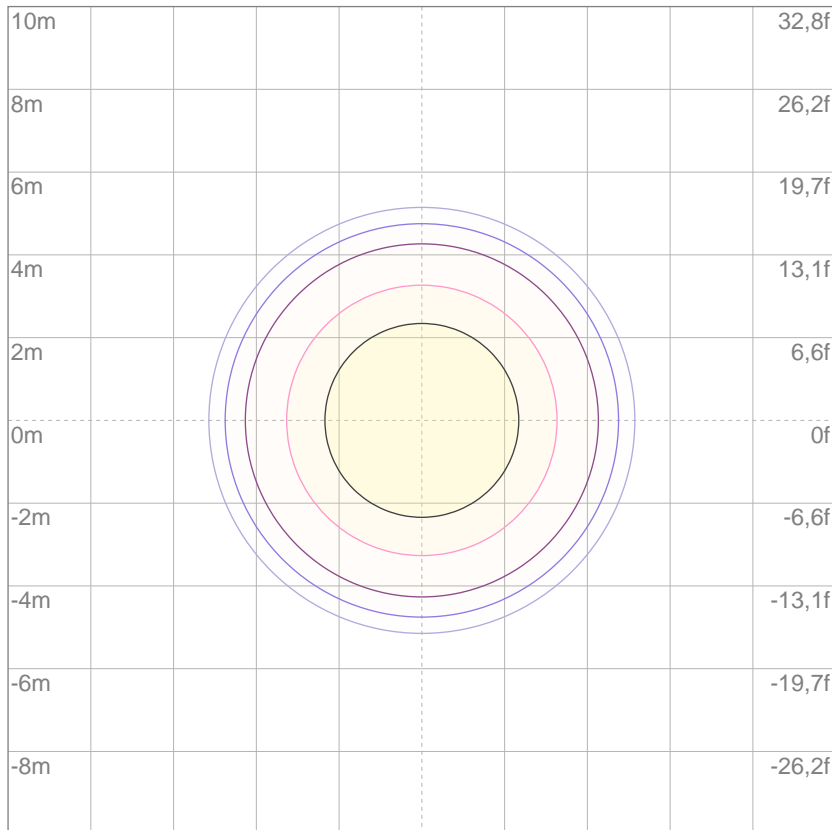


10%	35 cd
20%	71 cd
30%	106 cd
40%	141 cd
50%	177 cd
60%	212 cd
70%	248 cd
80%	283 cd

Conditions:

Number of c-planes: 2
Candela at center: 354 cd

ISO LUX DIAGRAM



3%	0,106 lx
5%	0,177 lx
10%	0,354 lx
30%	1,06 lx
50%	1,77 lx

Conditions:

Number of c-planes: 2
Lux at center: 3,54 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:

73,6 lm

Peak candela output:

722 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

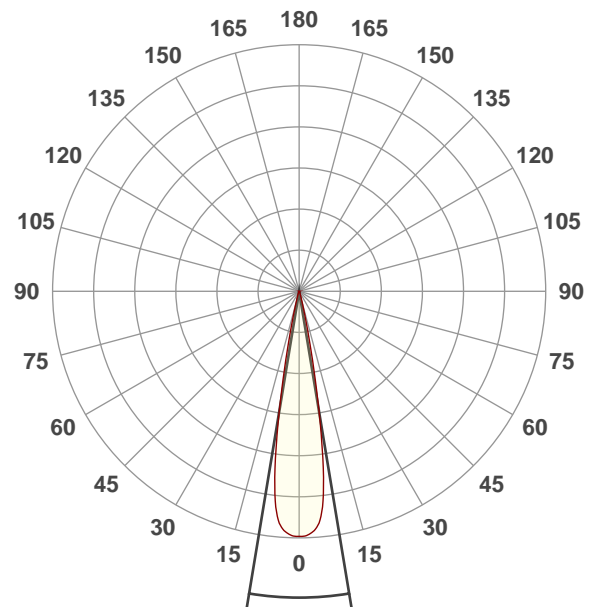
Red

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:46:59

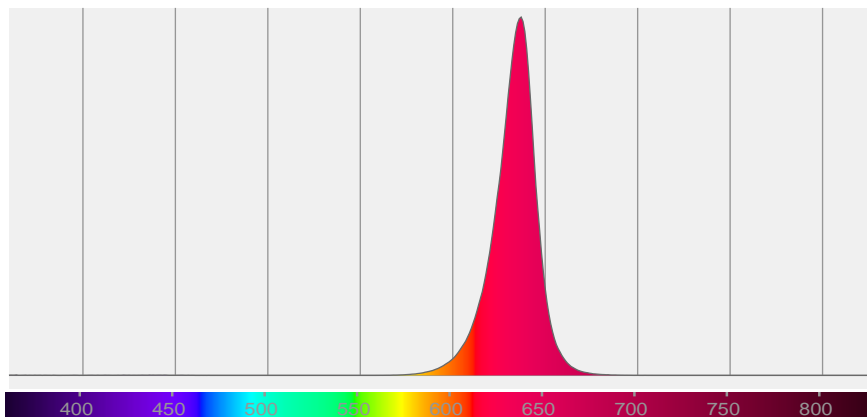


Beam angle 50%: 18,8°

Field angle 10%: 27°

Cut off angle 2.5%: 34,5°

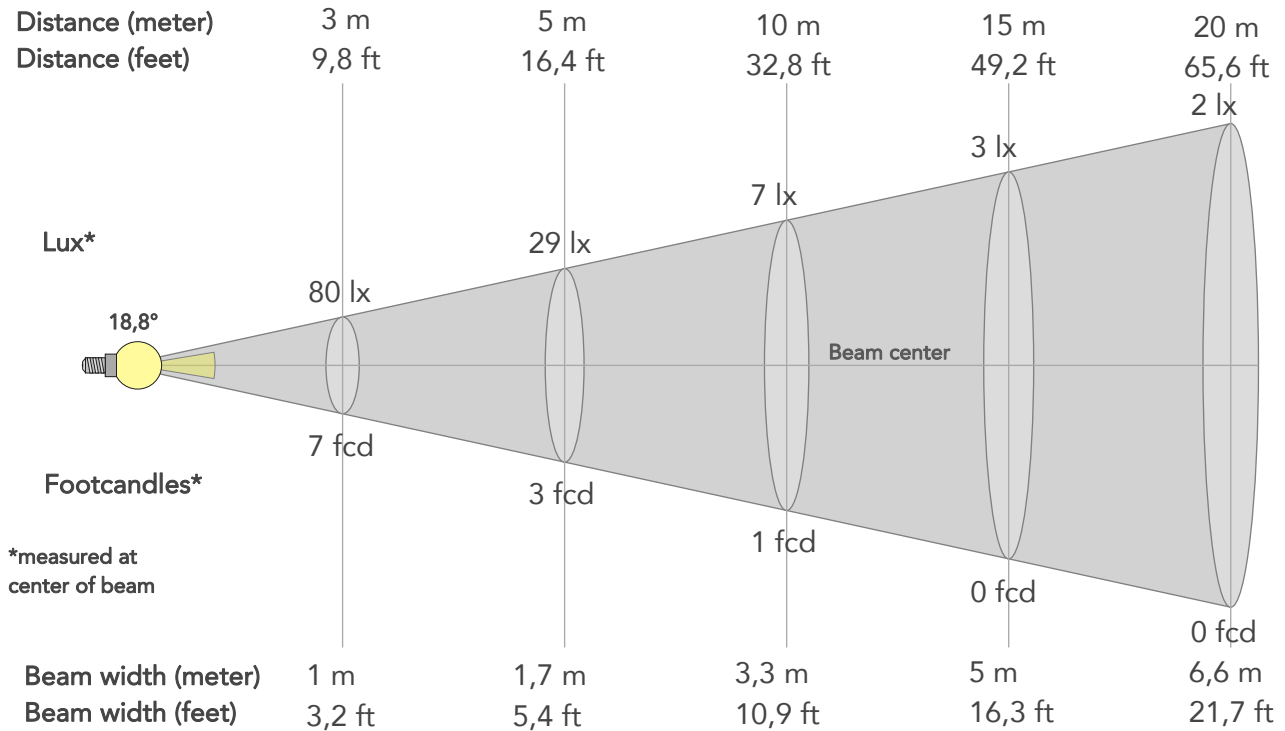
Spectra



BEAM DETAILS



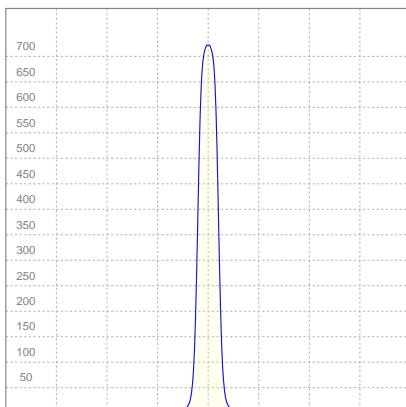
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,8°	27°	34,5°	99,9%	99,6%



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	722lx	180lx	80lx	45lx	29lx	13lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	67fcd	17fcd	7fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,6m	8,3m	9,9m	13,2m	16,6m
Beam wid.	1,1ft	2,2ft	3,2ft	4,3ft	5,4ft	8,1ft	10,9ft	16,3ft	21,7ft	27,1ft	32,6ft	43,4ft	54,3ft

LINEAR DISTRIBUTION DIAGRAM

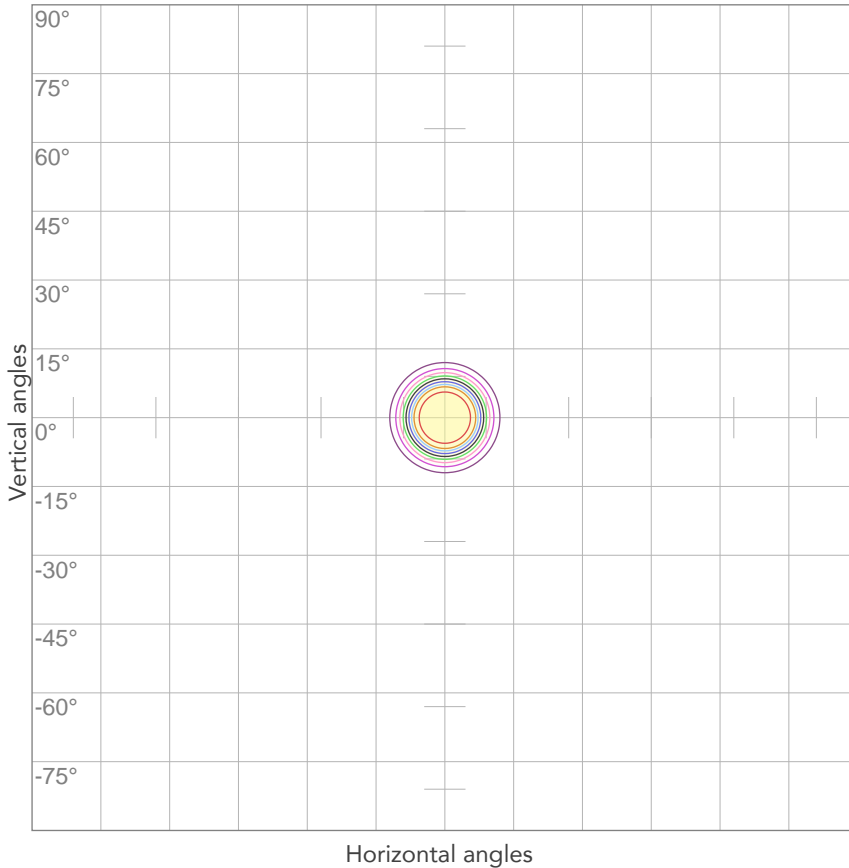


ELECTRICAL SPECIFICATIONS

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

Power FC
0,85

ISO CANDELA DIAGRAM

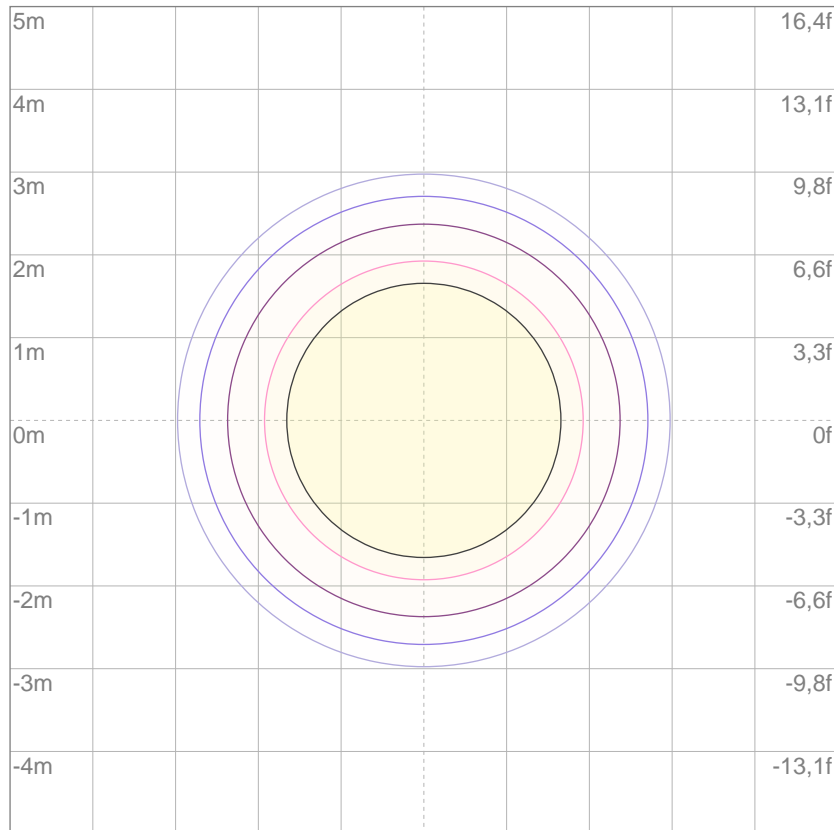


10%	72 cd
20%	144 cd
30%	217 cd
40%	289 cd
50%	361 cd
60%	433 cd
70%	505 cd
80%	577 cd

Conditions:

Number of c-planes: 2
Candela at center: 722 cd

ISO LUX DIAGRAM



3%	0,217 lx
5%	0,361 lx
10%	0,722 lx
30%	2,17 lx
50%	3,61 lx

Conditions:

Number of c-planes: 2
Lux at center: 7,22 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:

186 lm

Peak candela output:

781 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

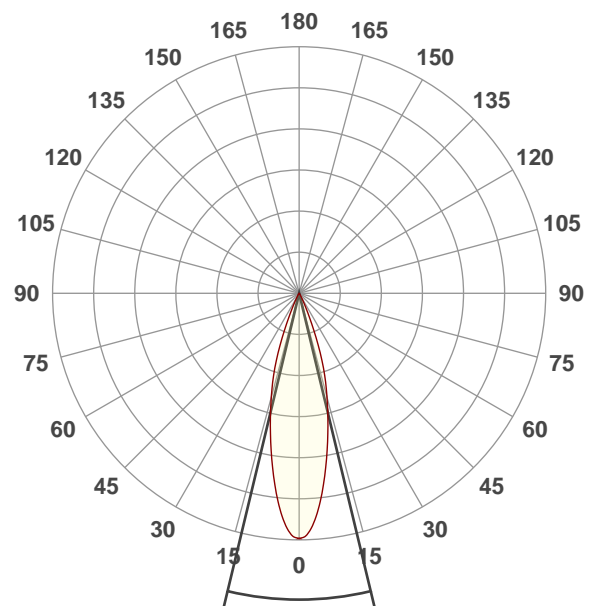
Green

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:35:32

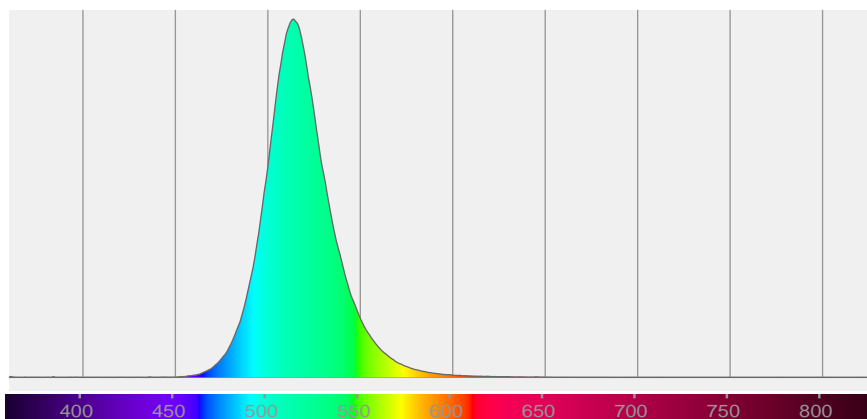


Beam angle 50%: 27°

Field angle 10%: 47°

Cut off angle 2.5%: 56,5°

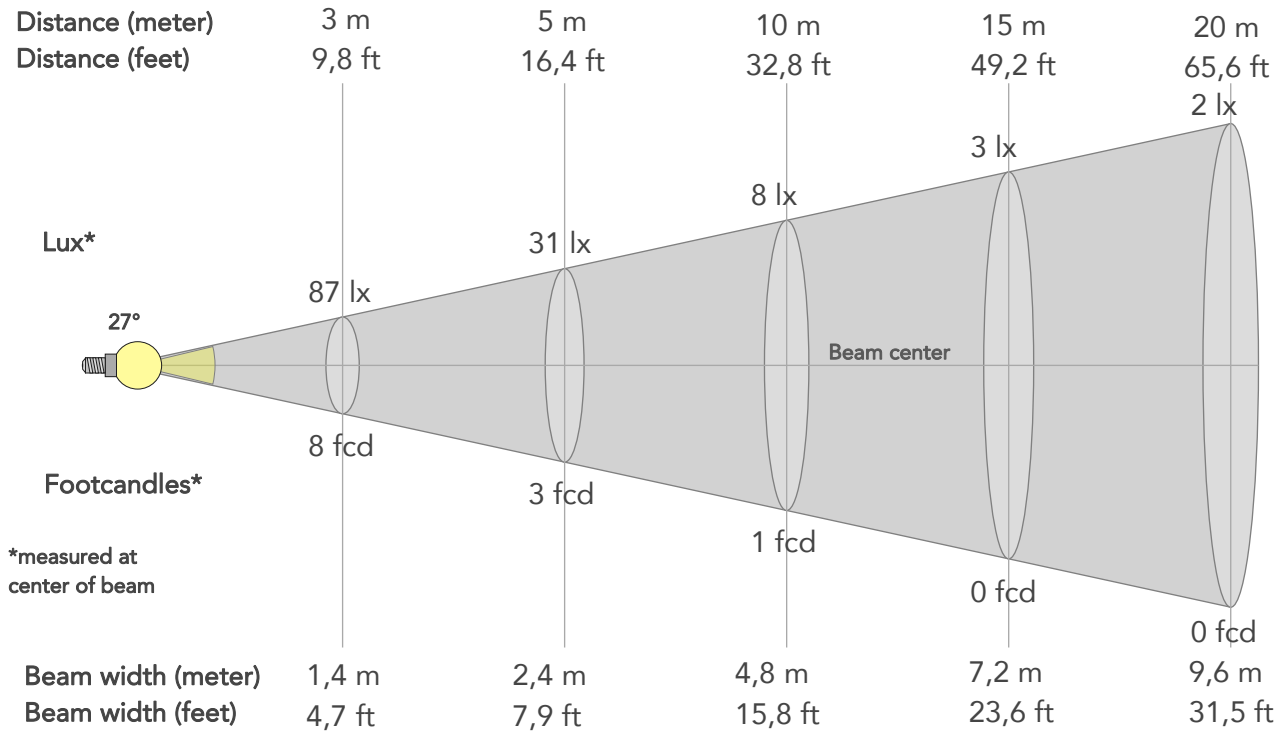
Spectra



BEAM DETAILS



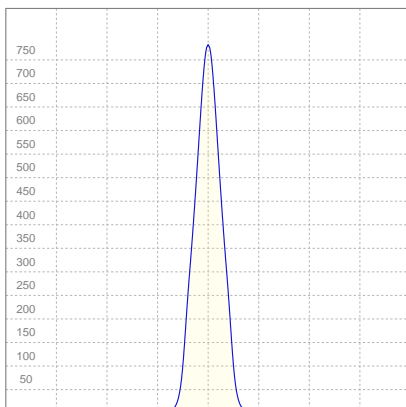
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27°	47°	56,5°	99,9%	99,5%



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	781lx	195lx	87lx	49lx	31lx	14lx	8lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	73fcd	18fcd	8fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,6m	12m	14,4m	19,2m	24m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,8ft	15,8ft	23,6ft	31,5ft	39,4ft	47,3ft	63ft	78,8ft

LINEAR DISTRIBUTION DIAGRAM

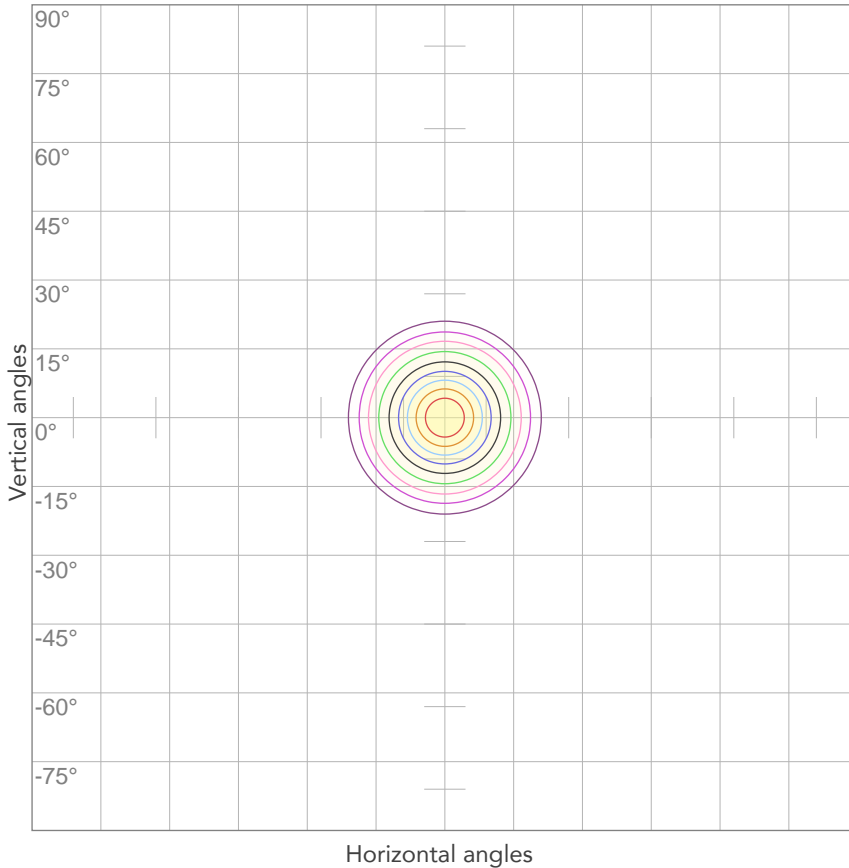


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,089A	17,5W	11lm/W

Power FC
0,88

ISO CANDELA DIAGRAM

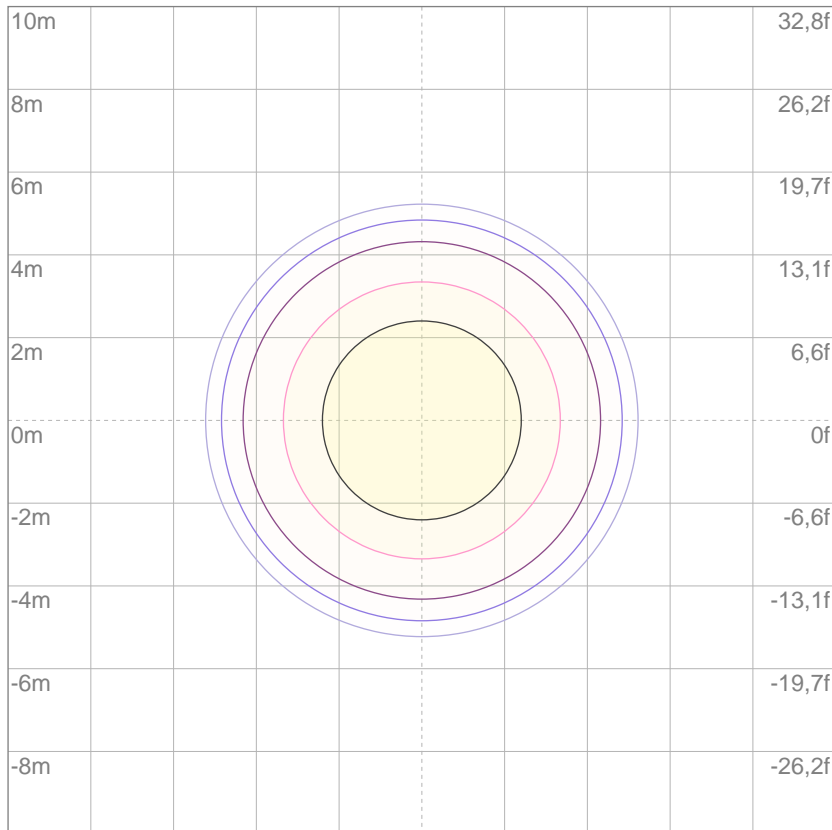


10%	78 cd
20%	156 cd
30%	234 cd
40%	312 cd
50%	391 cd
60%	469 cd
70%	547 cd
80%	625 cd

Conditions:

Number of c-planes: 2
Candela at center: 781 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,234 lx
5%	0,391 lx
10%	0,781 lx
30%	2,34 lx
50%	3,91 lx

Conditions:

Number of c-planes: 2
Lux at center: 7,81 lx

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



Total lumen output:

166 lm

Peak candela output:

1617 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

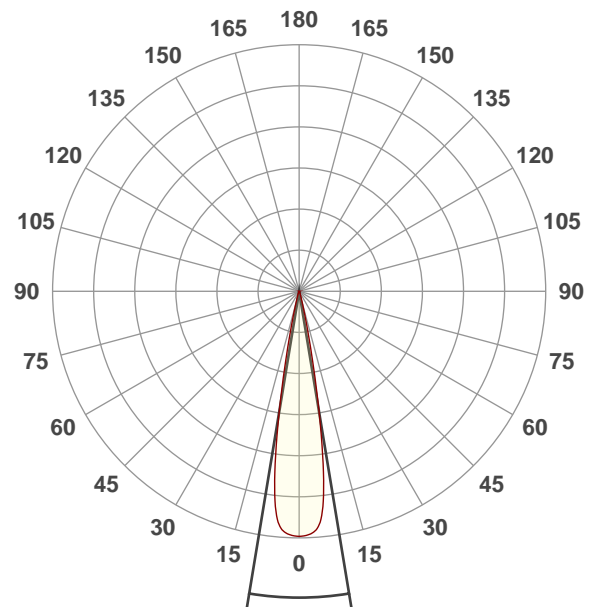
Green

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:48:27

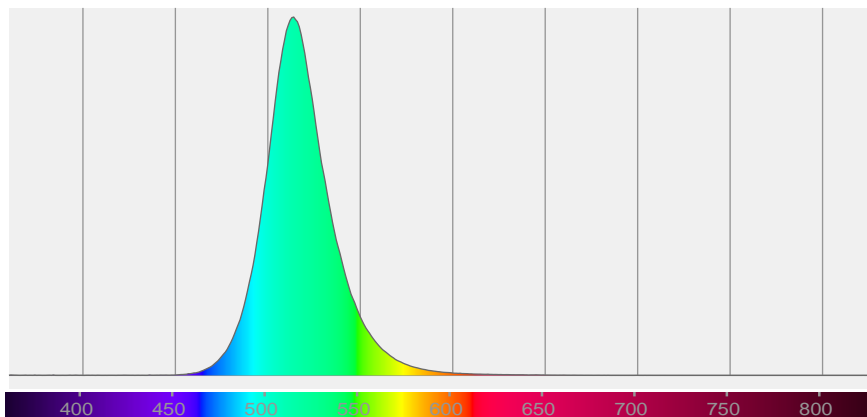


Beam angle 50%: 18,8°

Field angle 10%: 27°

Cut off angle 2.5%: 34,8°

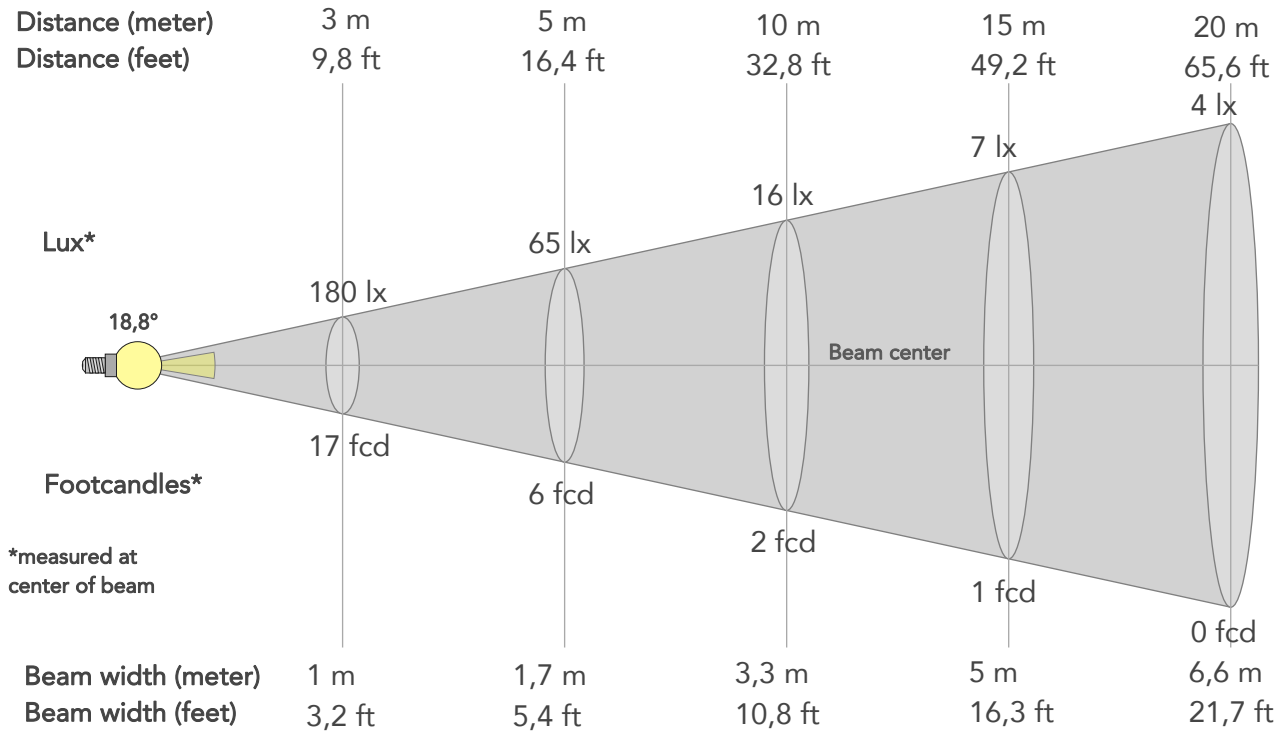
Spectra



BEAM DETAILS



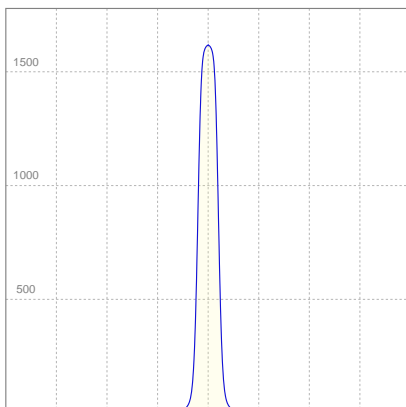
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,8°	27°	34,8°	100,0%	99,7%



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	1617lx	404lx	180lx	101lx	65lx	29lx	16lx	7lx	4lx	3lx	2lx	1lx	1lx
Footcand.	150fcd	38fcd	17fcd	9fcd	6fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,6m	8,3m	9,9m	13,2m	16,5m
Beam wid.	1,1ft	2,2ft	3,2ft	4,3ft	5,4ft	8,1ft	10,8ft	16,3ft	21,7ft	27,1ft	32,5ft	43,4ft	54,2ft

LINEAR DISTRIBUTION DIAGRAM

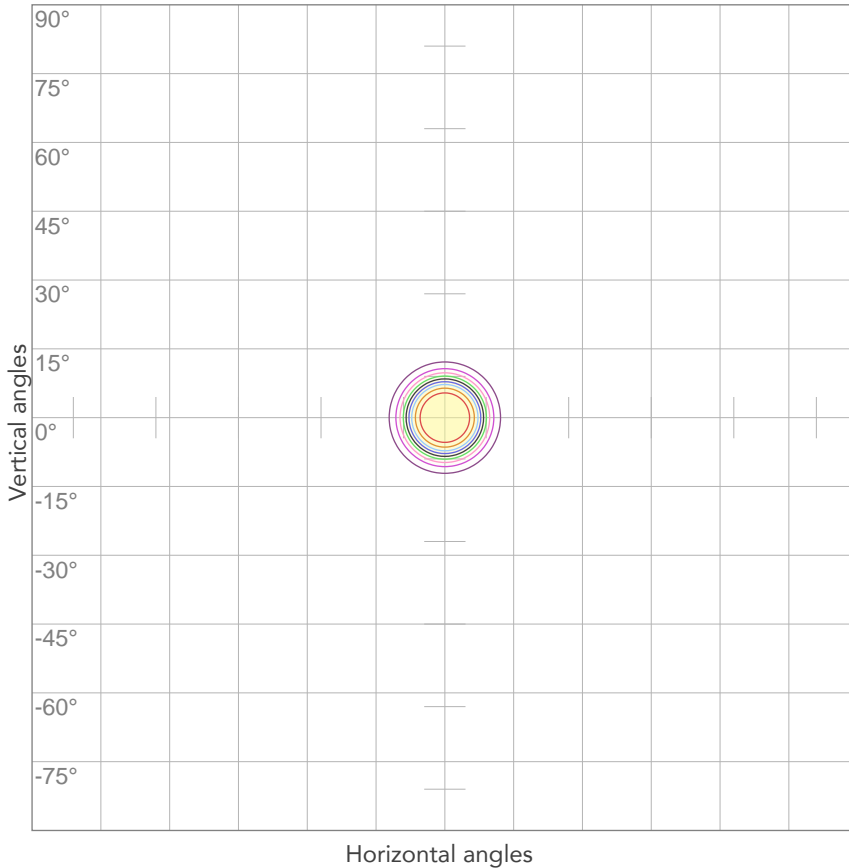


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Efficiency
223V	0,091A	18,1W	9lm/W

Power FC
0,89

ISO CANDELA DIAGRAM



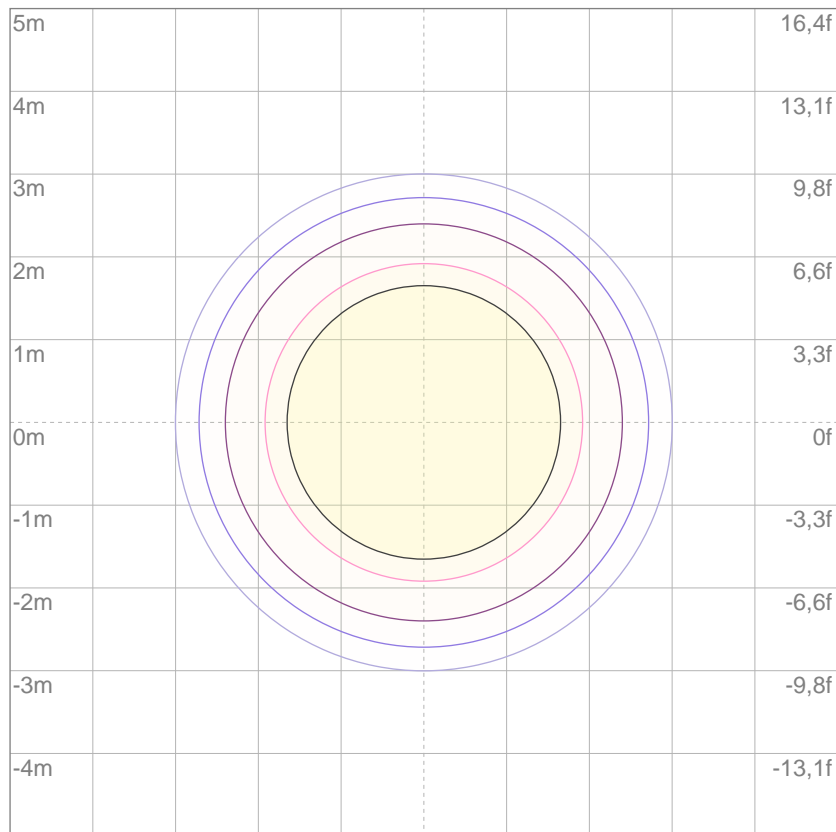
10%	162 cd
20%	323 cd
30%	485 cd
40%	647 cd
50%	808 cd
60%	970 cd
70%	1132 cd
80%	1293 cd

Conditions:

Number of c-planes: 2

Candela at center: 1617 cd

ISO LUX DIAGRAM



3%	0,485 lx
5%	0,808 lx
10%	1,62 lx
30%	4,85 lx
50%	8,08 lx

Conditions:

Number of c-planes: 2

Lux at center: 16,2 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:

38,4 lm

Peak candela output:

158 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

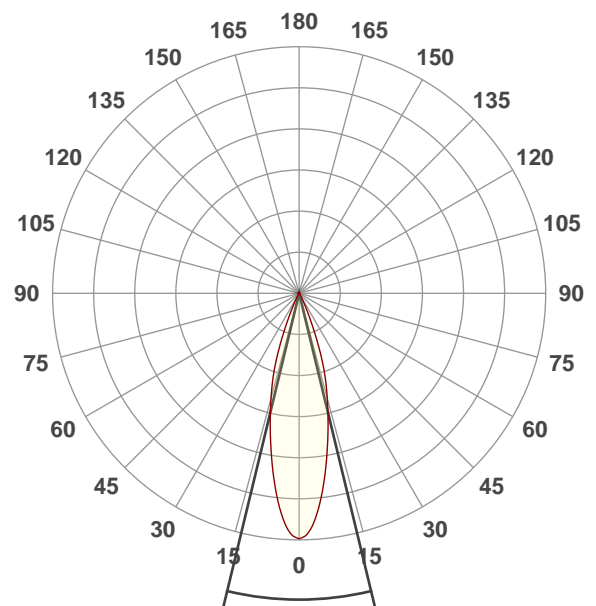
Blue

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:37:07

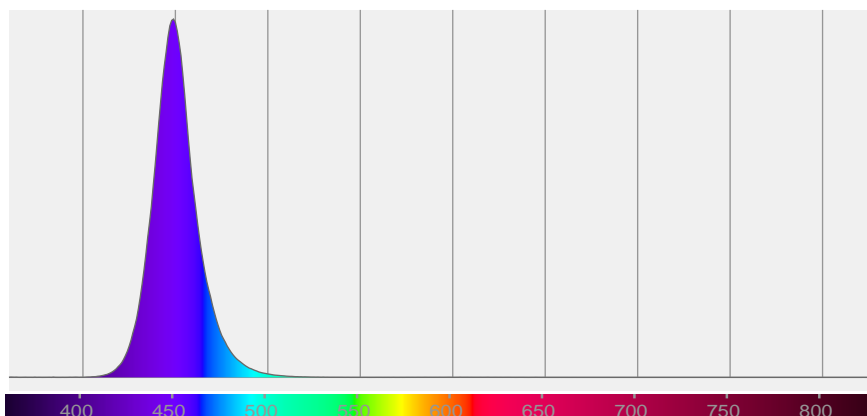


Beam angle 50%: 27,2°

Field angle 10%: 47,2°

Cut off angle 2.5%: 57°

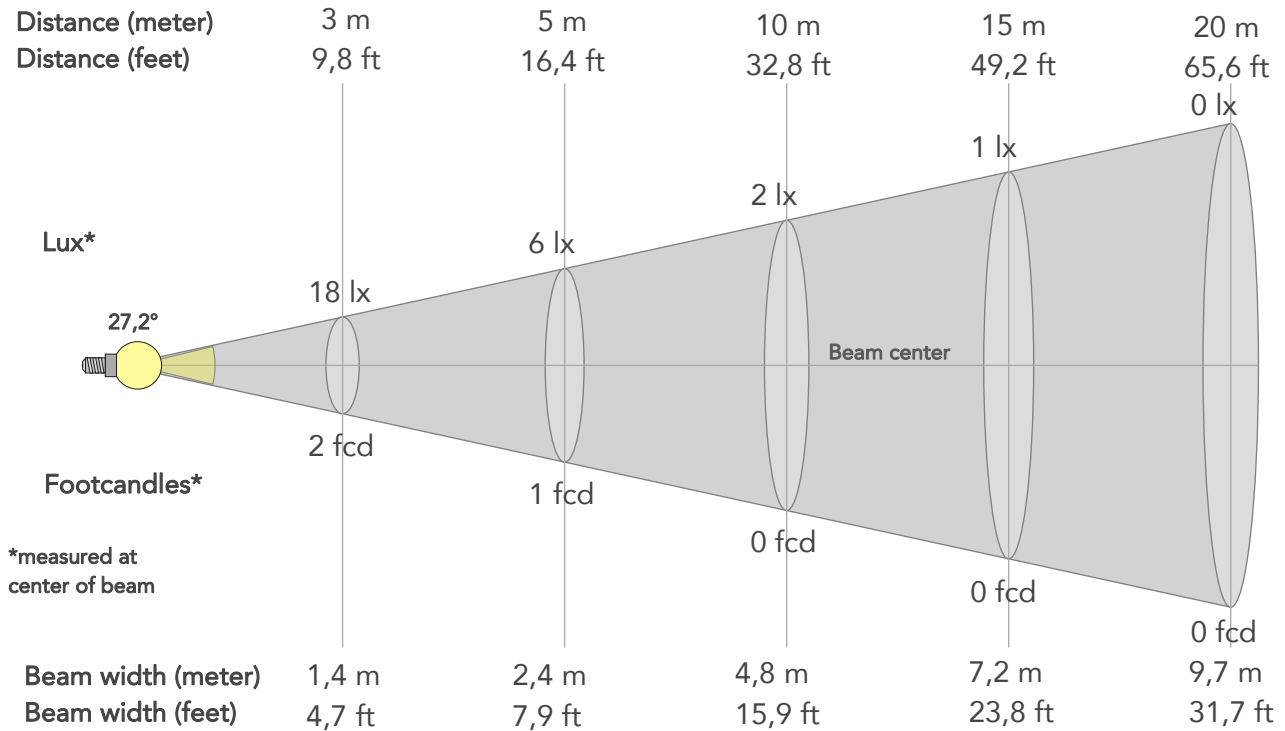
Spectra



BEAM DETAILS



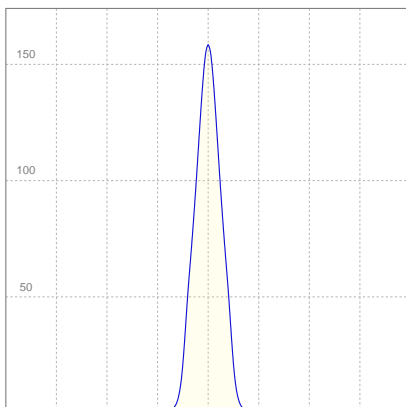
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,2°	47,2°	57°	99,7%	99,1%



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	158lx	40lx	18lx	10lx	6lx	3lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	15fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,7m	12,1m	14,5m	19,3m	24,2m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,9ft	15,9ft	23,8ft	31,7ft	39,6ft	47,6ft	63,4ft	79,3ft

LINEAR DISTRIBUTION DIAGRAM

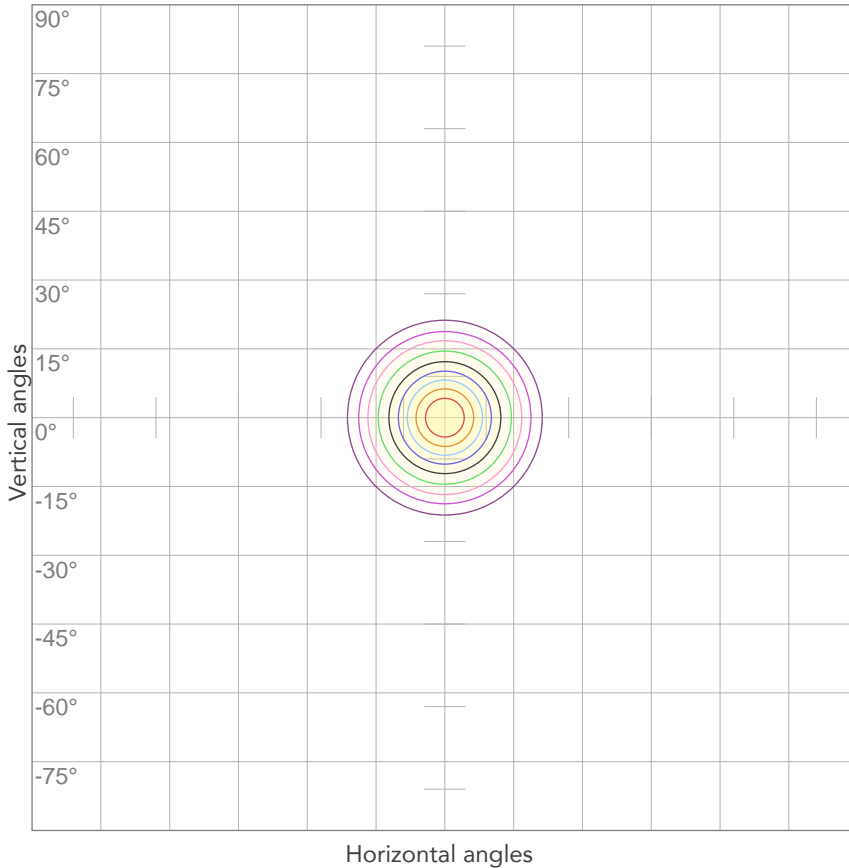


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,084A	16,5W	2lm/W

Power FC
0,88

ISO CANDELA DIAGRAM



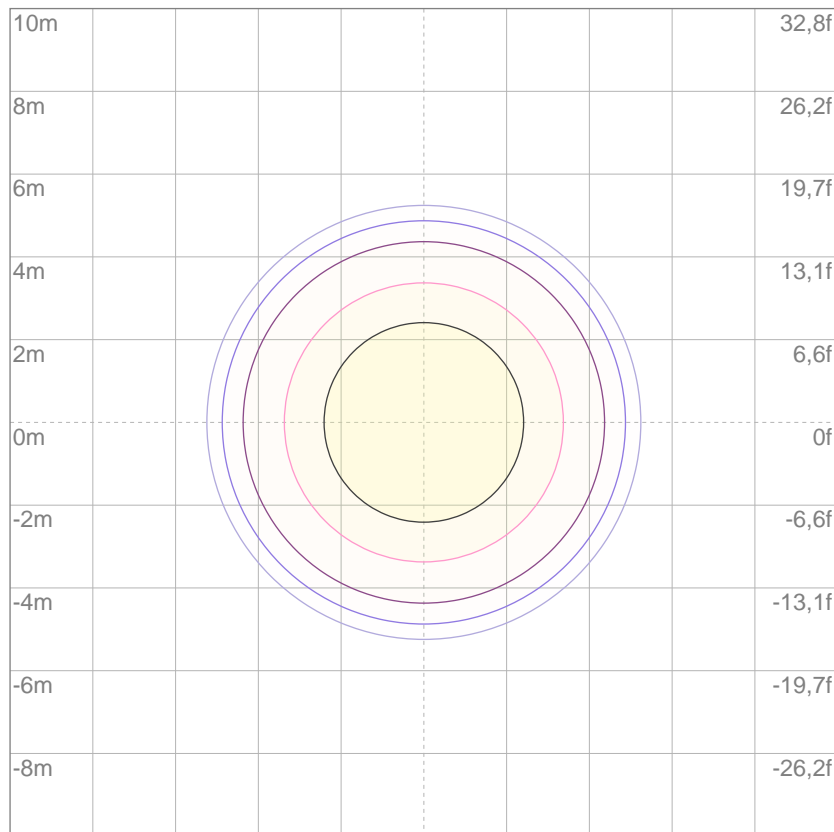
10%	16 cd
20%	32 cd
30%	47 cd
40%	63 cd
50%	79 cd
60%	95 cd
70%	111 cd
80%	127 cd

Conditions:

Number of c-planes: 2

Candela at center: 158 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	47,5m lx
5%	79,1m lx
10%	0,158 lx
30%	0,475 lx
50%	0,791 lx

Conditions:

Number of c-planes: 2

Lux at center: 1,58 lx

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



Total lumen output:

34,0 lm

Peak candela output:

334 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

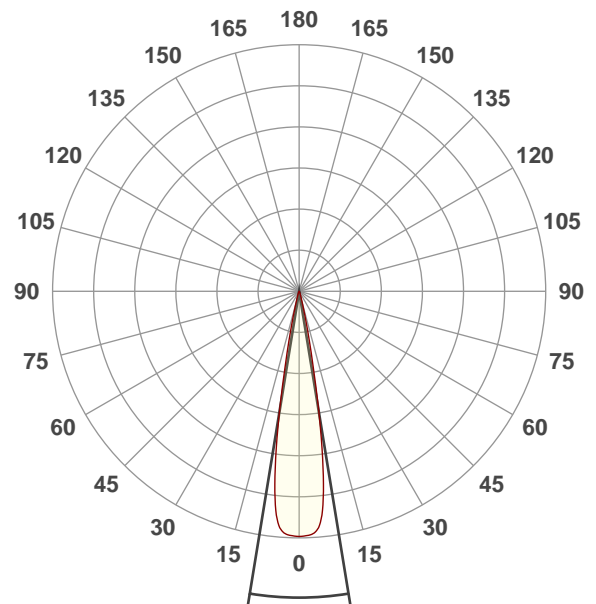
Blue

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:49:53

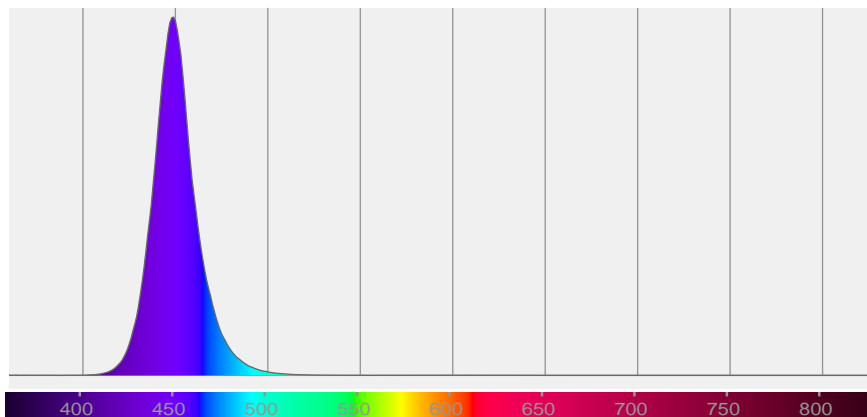


Beam angle 50%: 18,6°

Field angle 10%: 26,8°

Cut off angle 2.5%: 34,7°

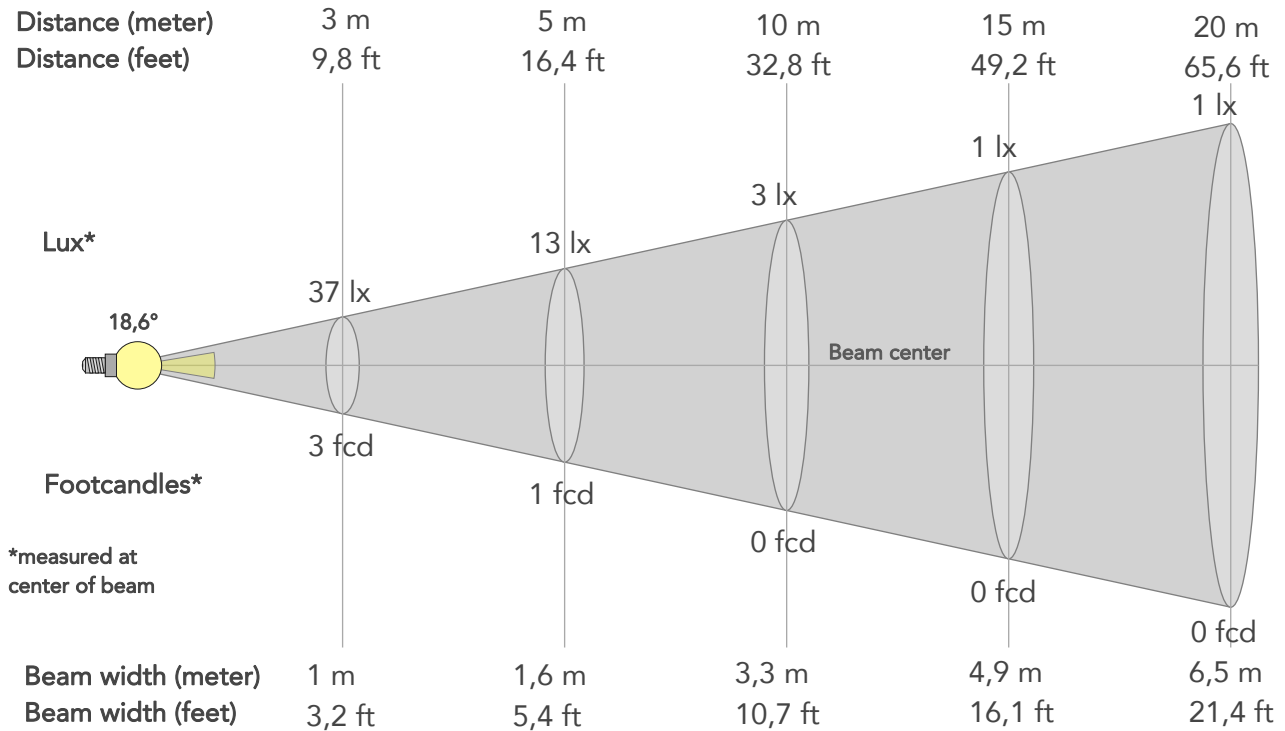
Spectra



BEAM DETAILS



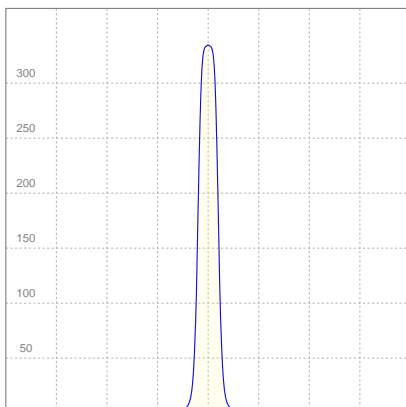
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,6°	26,8°	34,7°	99,8%	99,3%



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	334lx	84lx	37lx	21lx	13lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx	0lx
Footcand.	31fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,6m	2,4m	3,3m	4,9m	6,5m	8,2m	9,8m	13,1m	16,3m
Beam wid.	1,1ft	2,2ft	3,2ft	4,3ft	5,4ft	8ft	10,7ft	16,1ft	21,4ft	26,8ft	32,1ft	42,9ft	53,6ft

LINEAR DISTRIBUTION DIAGRAM

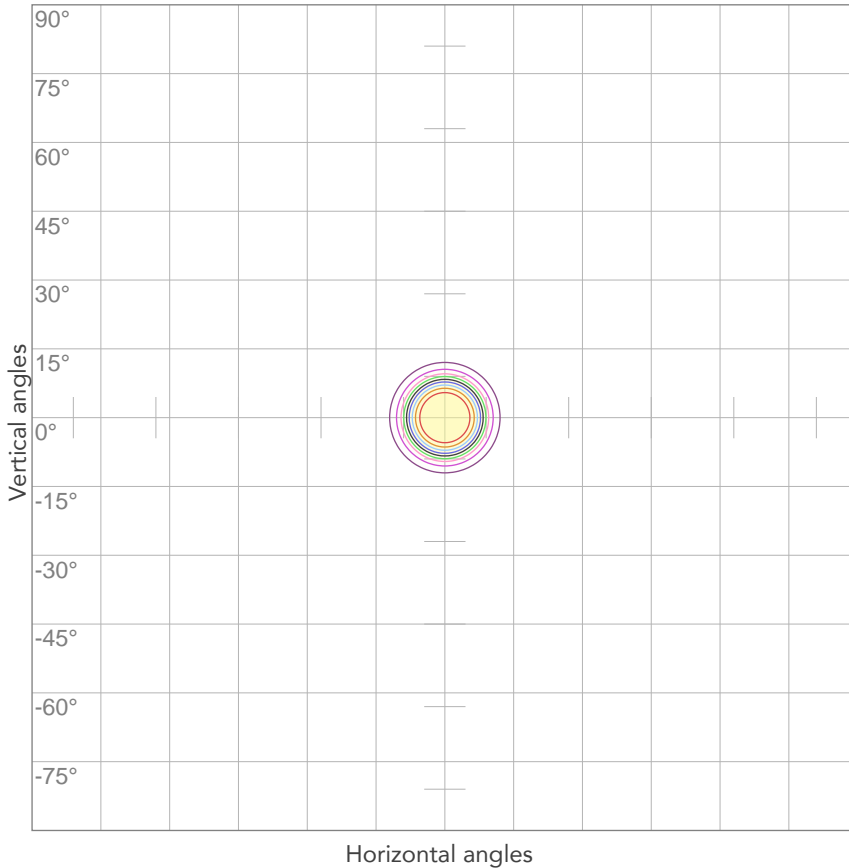


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,084A	16,5W	2lm/W

Power FC
0,88

ISO CANDELA DIAGRAM

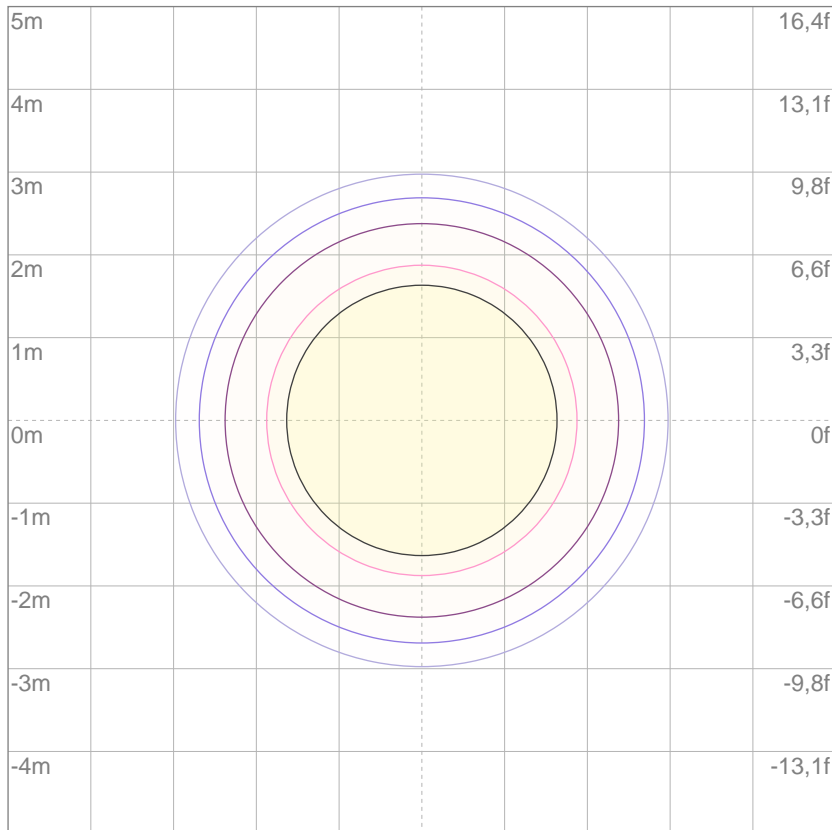


10%	33 cd
20%	67 cd
30%	100 cd
40%	134 cd
50%	167 cd
60%	201 cd
70%	234 cd
80%	268 cd

Conditions:

Number of c-planes: 2
Candela at center: 334 cd

ISO LUX DIAGRAM



3%	0,100 lx
5%	0,167 lx
10%	0,334 lx
30%	1,00 lx
50%	1,67 lx

Conditions:

Number of c-planes: 2
Lux at center: 3,34 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:

237 lm

Peak candela output:

1001 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

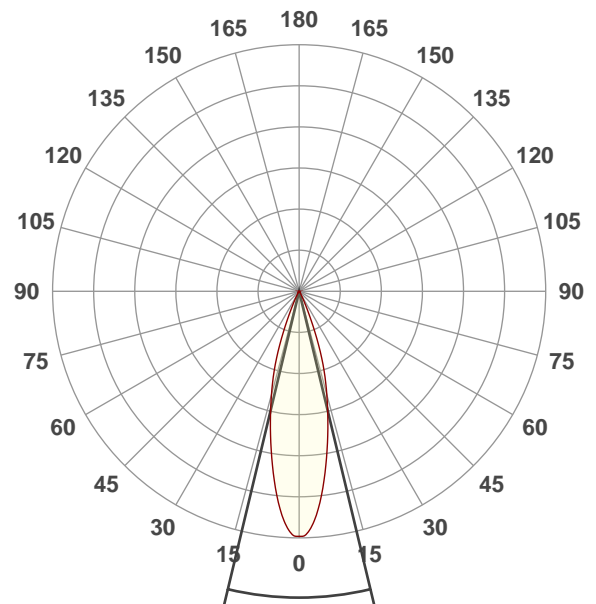
White

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:38:44

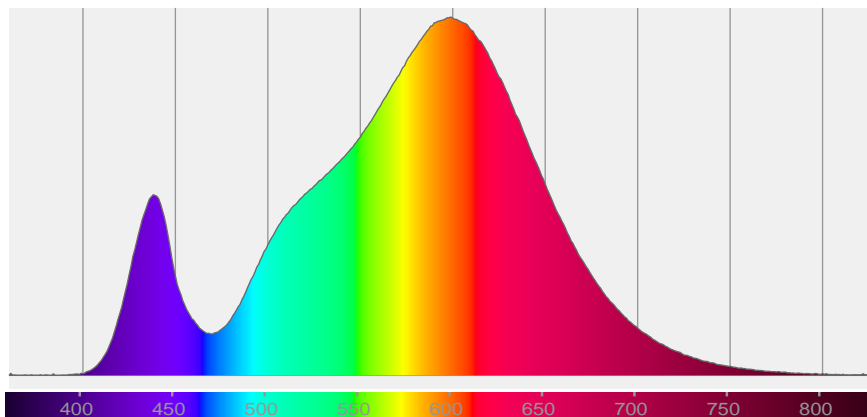


Beam angle 50%: 26,9°

Field angle 10%: 46,7°

Cut off angle 2.5%: 56,4°

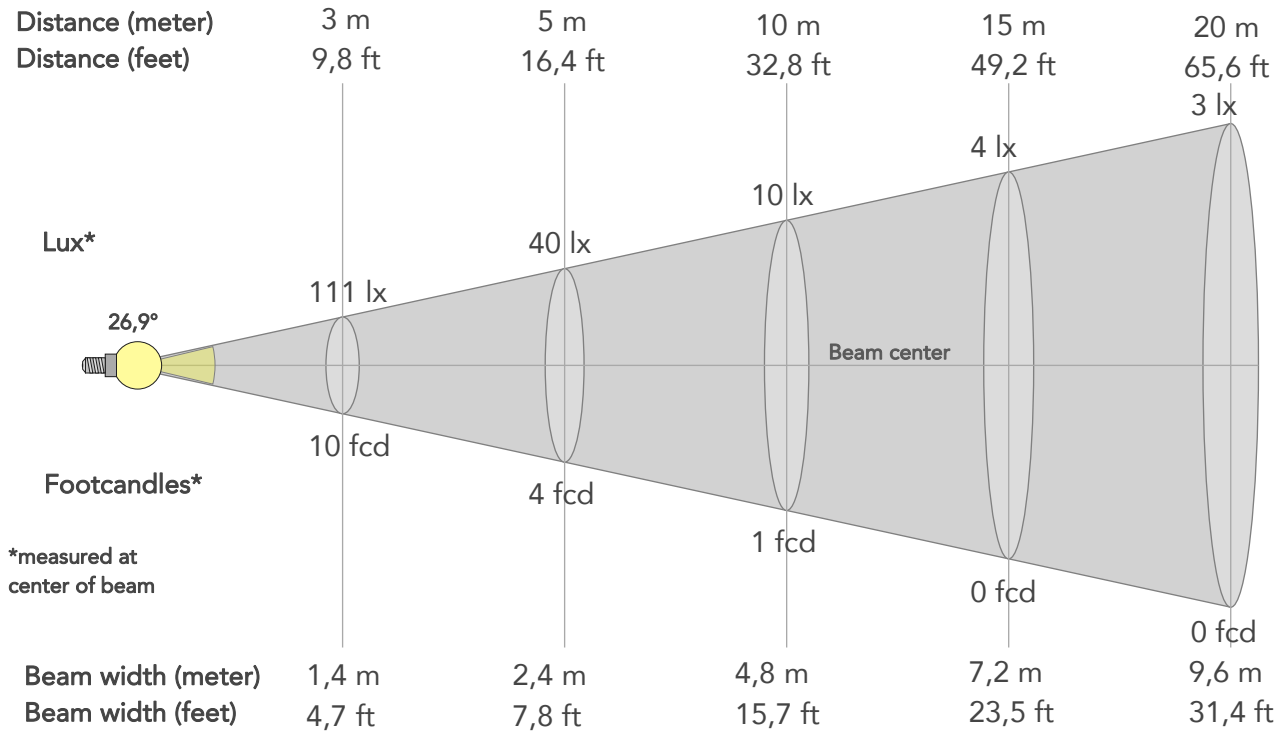
Spectra



BEAM DETAILS



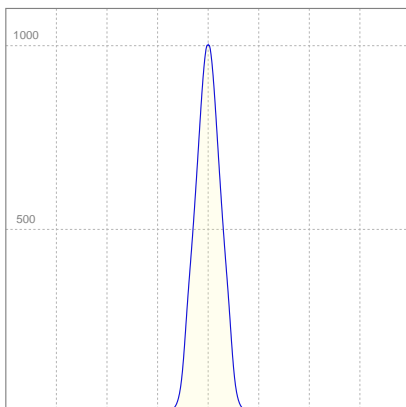
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,9°	46,7°	56,4°	99,9%	99,5%



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	1001lx	250lx	111lx	63lx	40lx	18lx	10lx	4lx	3lx	2lx	1lx	1lx	0lx
Footcand.	93fcd	23fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,6m	12m	14,4m	19,1m	23,9m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,8ft	11,8ft	15,7ft	23,5ft	31,4ft	39,2ft	47,1ft	62,8ft	78,5ft

LINEAR DISTRIBUTION DIAGRAM

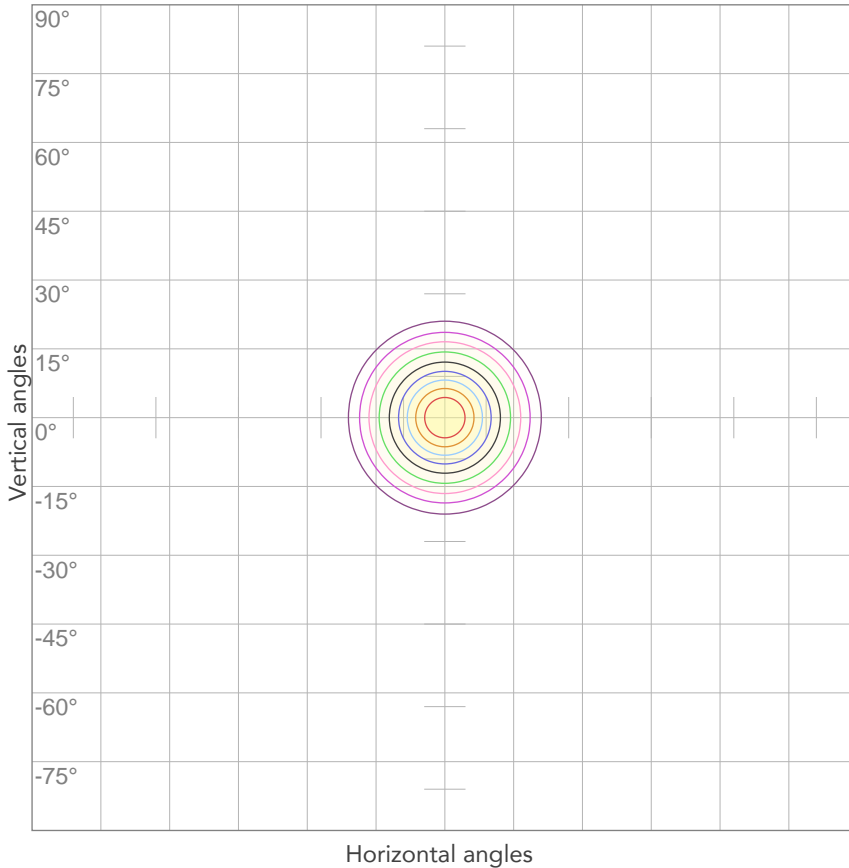


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,092A	18,3W	13lm/W

Power FC
0,89

ISO CANDELA DIAGRAM



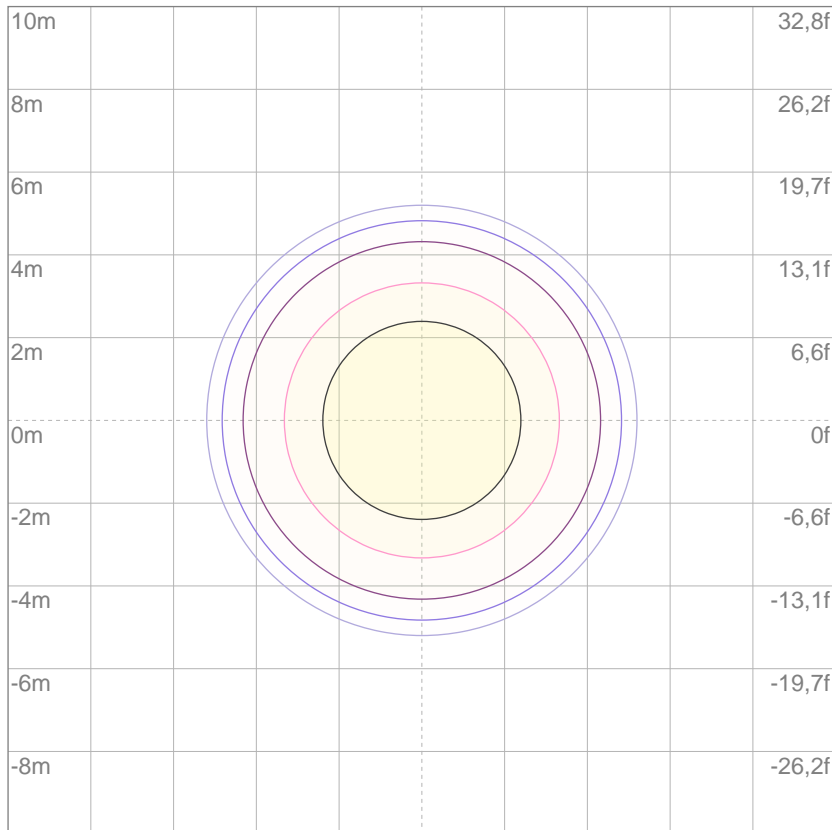
- 10% 100 cd
- 20% 200 cd
- 30% 300 cd
- 40% 400 cd
- 50% 501 cd
- 60% 601 cd
- 70% 701 cd
- 80% 801 cd

Conditions:

Number of c-planes: 2

Candela at center: 1001 cd

ISO LUX DIAGRAM



- 3% 0,300 lx
- 5% 0,501 lx
- 10% 1,00 lx
- 30% 3,00 lx
- 50% 5,01 lx

Conditions:

Number of c-planes: 2

Lux at center: 10,0 lx

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



Total lumen output:

213 lm

Peak candela output:

2057 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

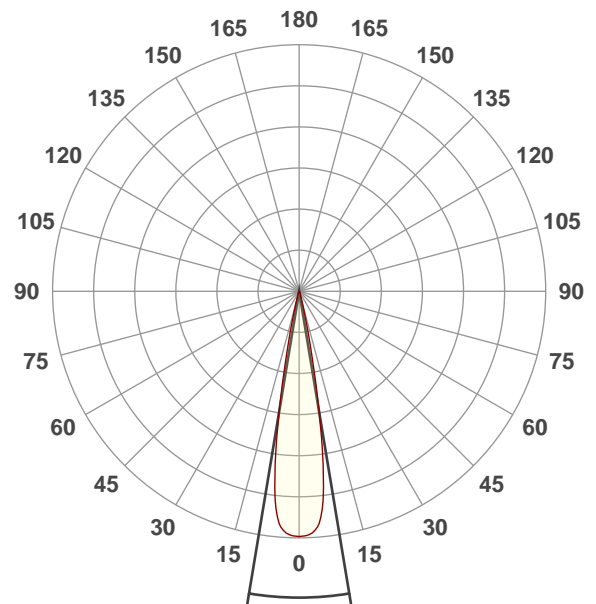
White

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:51:41

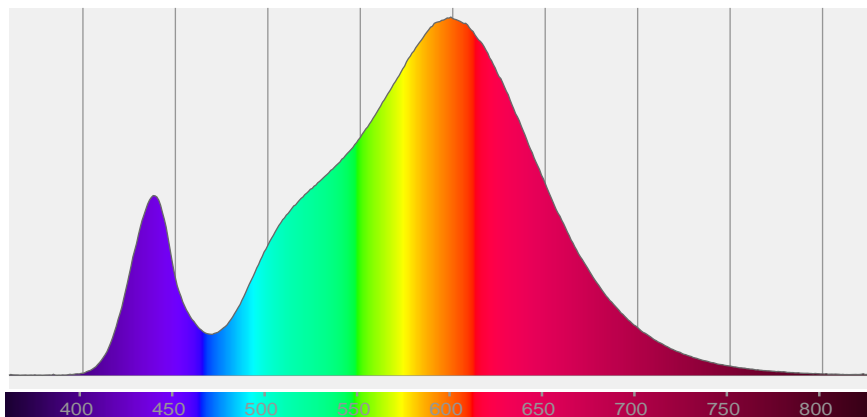


Beam angle 50%: 18,8°

Field angle 10%: 27,3°

Cut off angle 2.5%: 35,1°

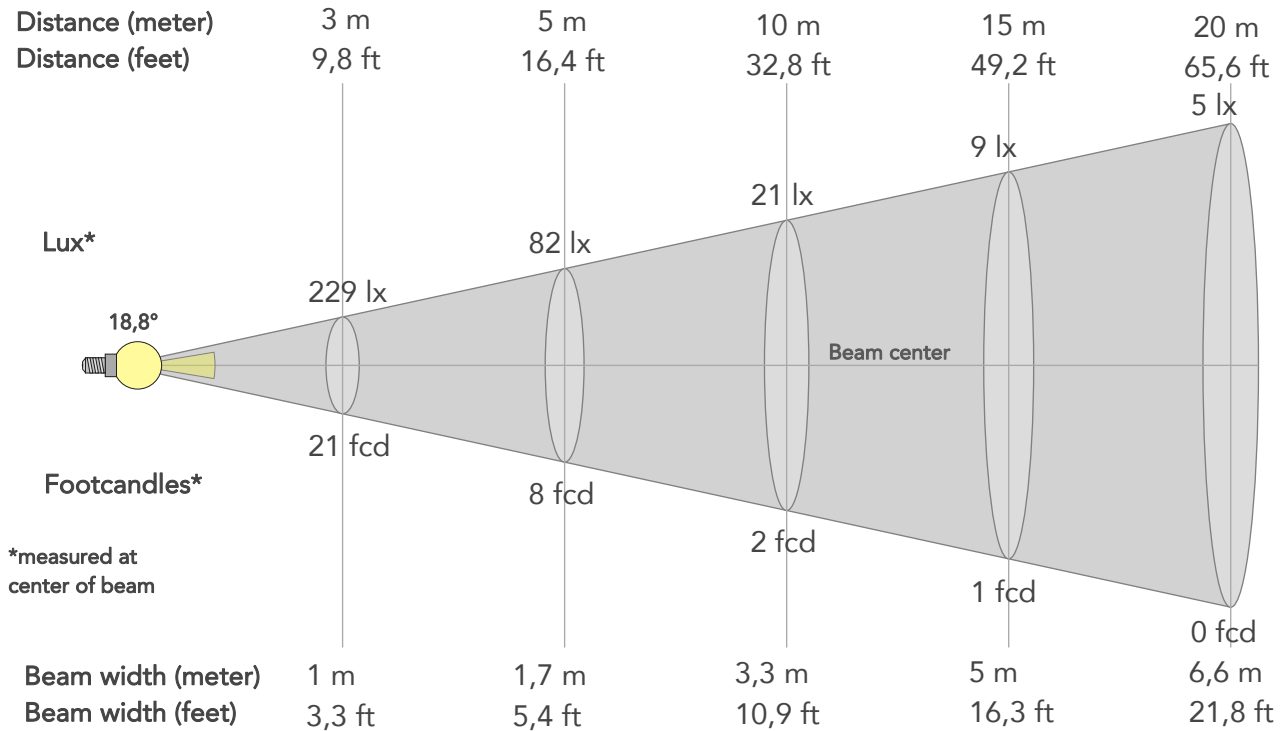
Spectra



BEAM DETAILS



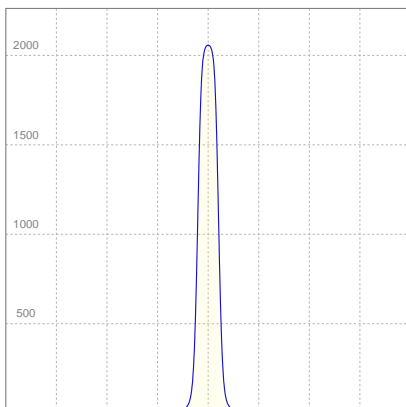
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,8°	27,3°	35,1°	100,0%	99,7%



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	2057lx	514lx	229lx	129lx	82lx	37lx	21lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	191fcd	48fcd	21fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,6m	8,3m	10m	13,3m	16,6m
Beam wid.	1,1ft	2,2ft	3,3ft	4,3ft	5,4ft	8,2ft	10,9ft	16,3ft	21,8ft	27,2ft	32,6ft	43,5ft	54,4ft

LINEAR DISTRIBUTION DIAGRAM

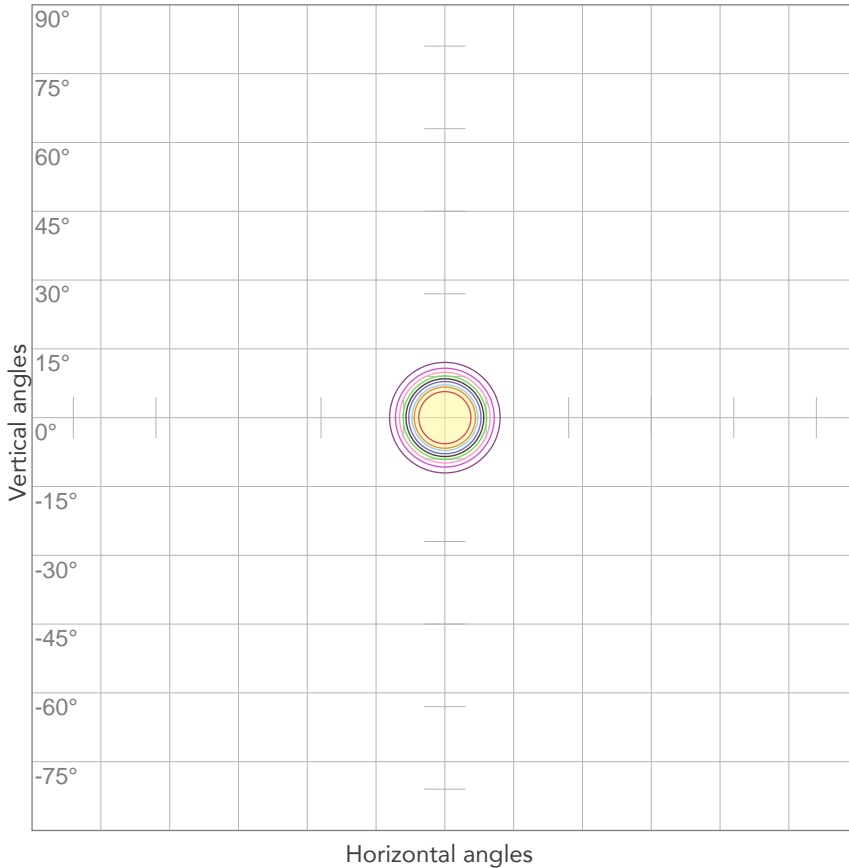


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Efficiency
223V	0,092A	18,3W	12lm/W

Power FC
0,89

ISO CANDELA DIAGRAM



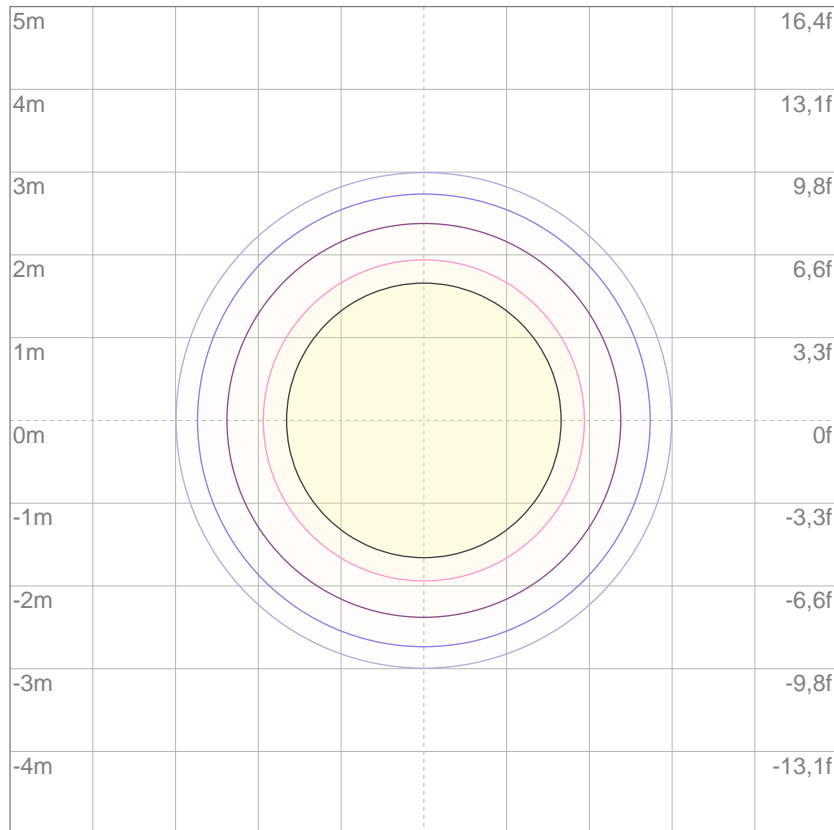
10%	206 cd
20%	411 cd
30%	617 cd
40%	823 cd
50%	1028 cd
60%	1234 cd
70%	1440 cd
80%	1645 cd

Conditions:

Number of c-planes: 2

Candela at center: 2057 cd

ISO LUX DIAGRAM



3%	0,617 lx
5%	1,03 lx
10%	2,06 lx
30%	6,17 lx
50%	10,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 20,6 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:

260 lm

Peak candela output:

1101 cd

Light quality:

CRI: 92,5

Color temperature:

2830 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash 15-30 Max Zoom

Target:

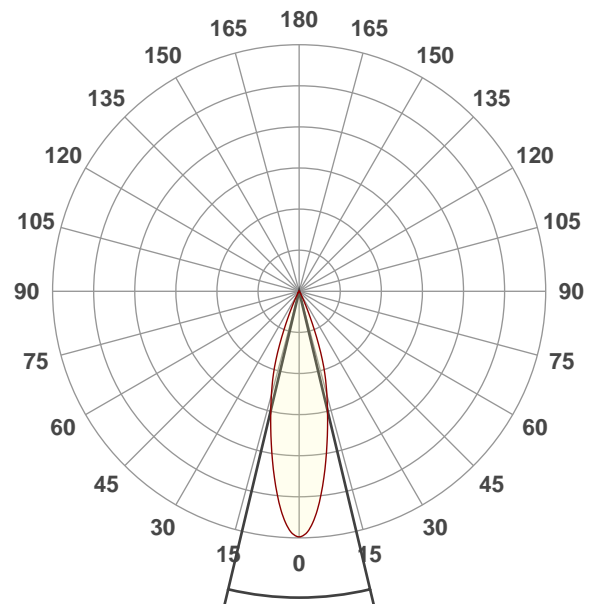
2800K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:08:12

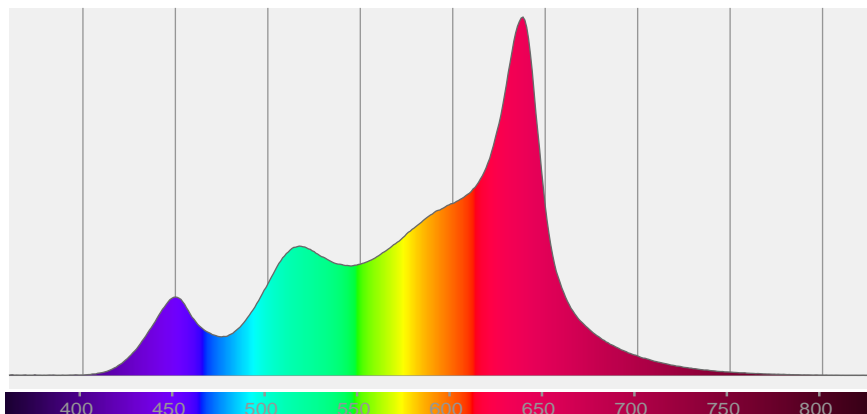


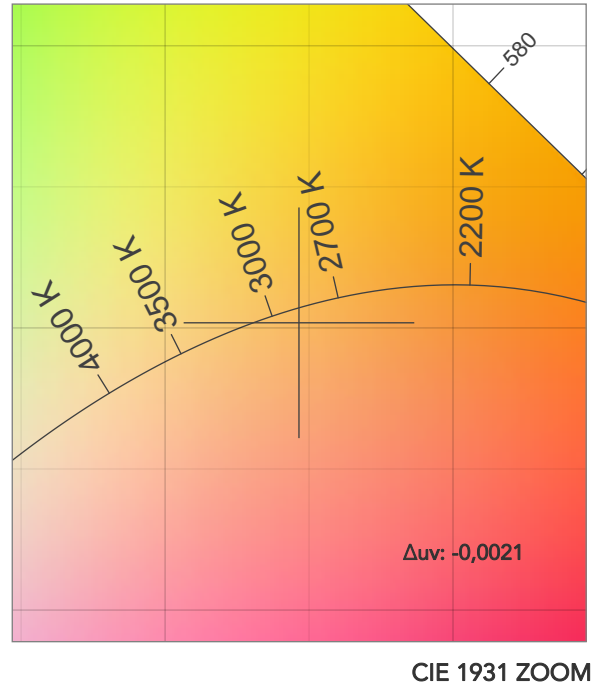
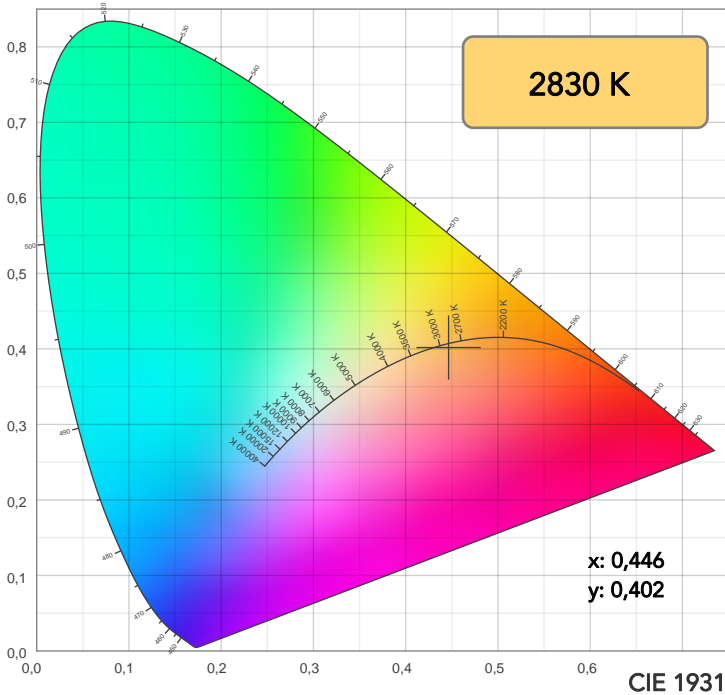
Beam angle 50%: 26,8°

Field angle 10%: 47,1°

Cut off angle 2.5%: 56,1°

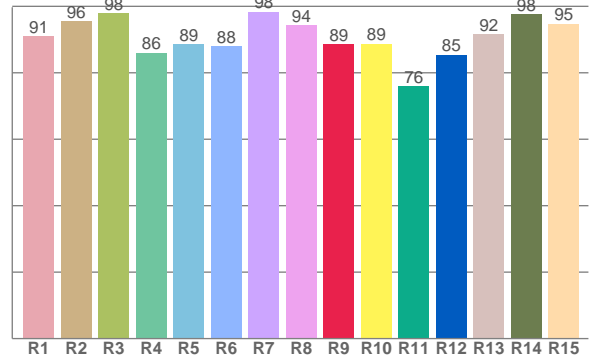
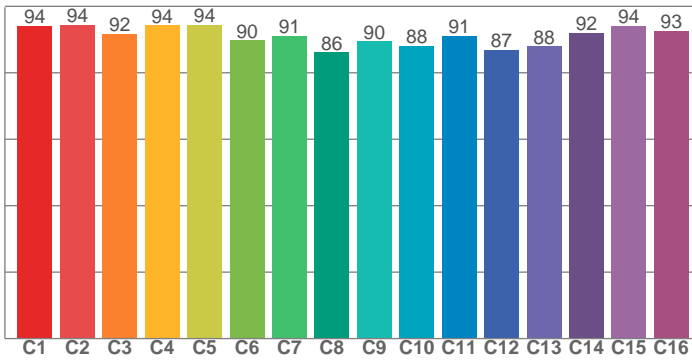
Spectra





TM30: 91,6

CRI: 92,5 (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
90,9	95,5	98,0	86,0	88,6	87,9	98,4	94,4	88,6	88,7	75,9	85,4	91,6	97,7	94,8

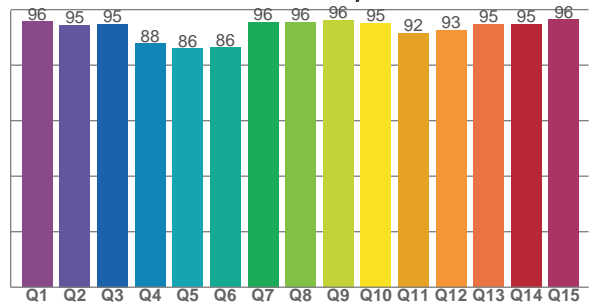
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 92,1



COLOR PARAMETERS

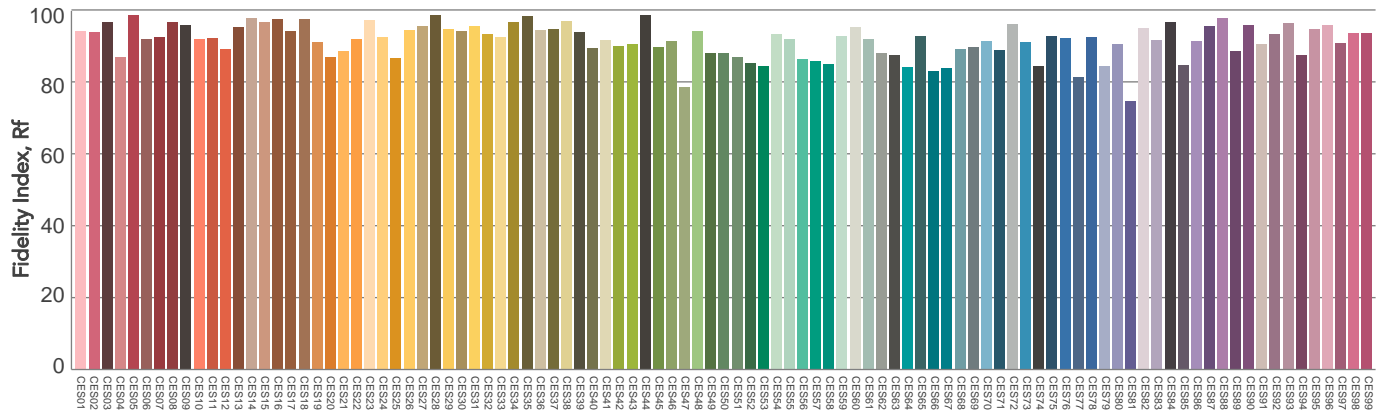
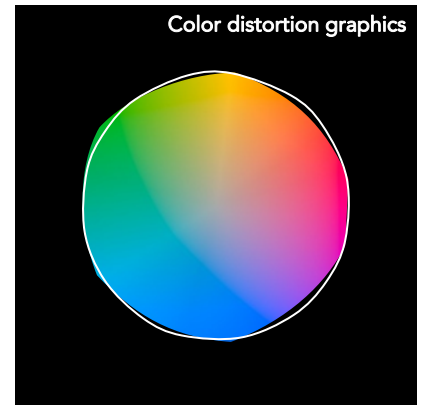
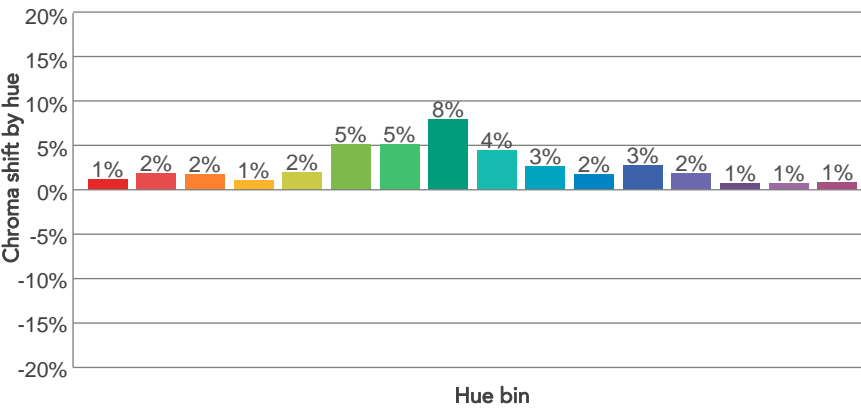
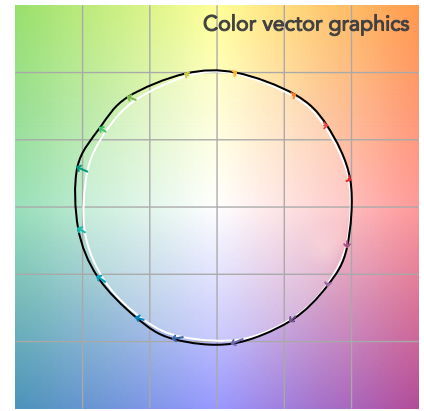
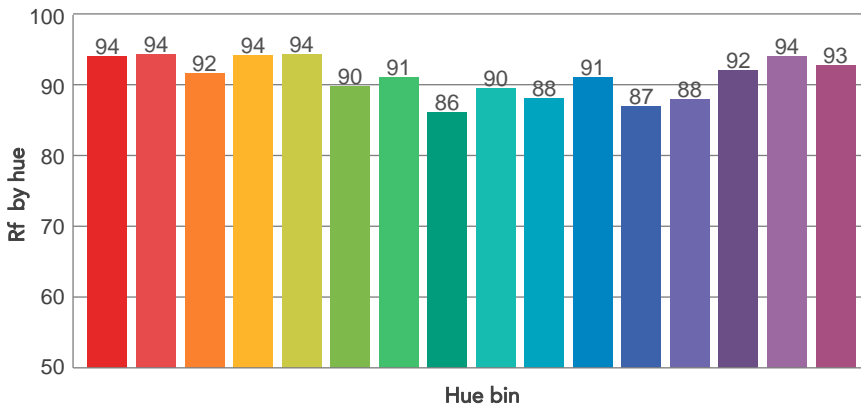
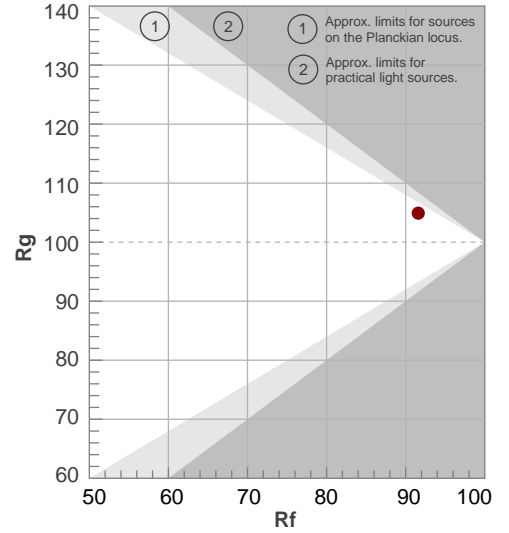
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2830 K	92,5	88,6	91,6	104,9	92,1	83	0,446	0,402	-0,0021

TM30 DETAILS

Rf 91,6
Fidelity index Rf

Rg 104,9
Gammut index

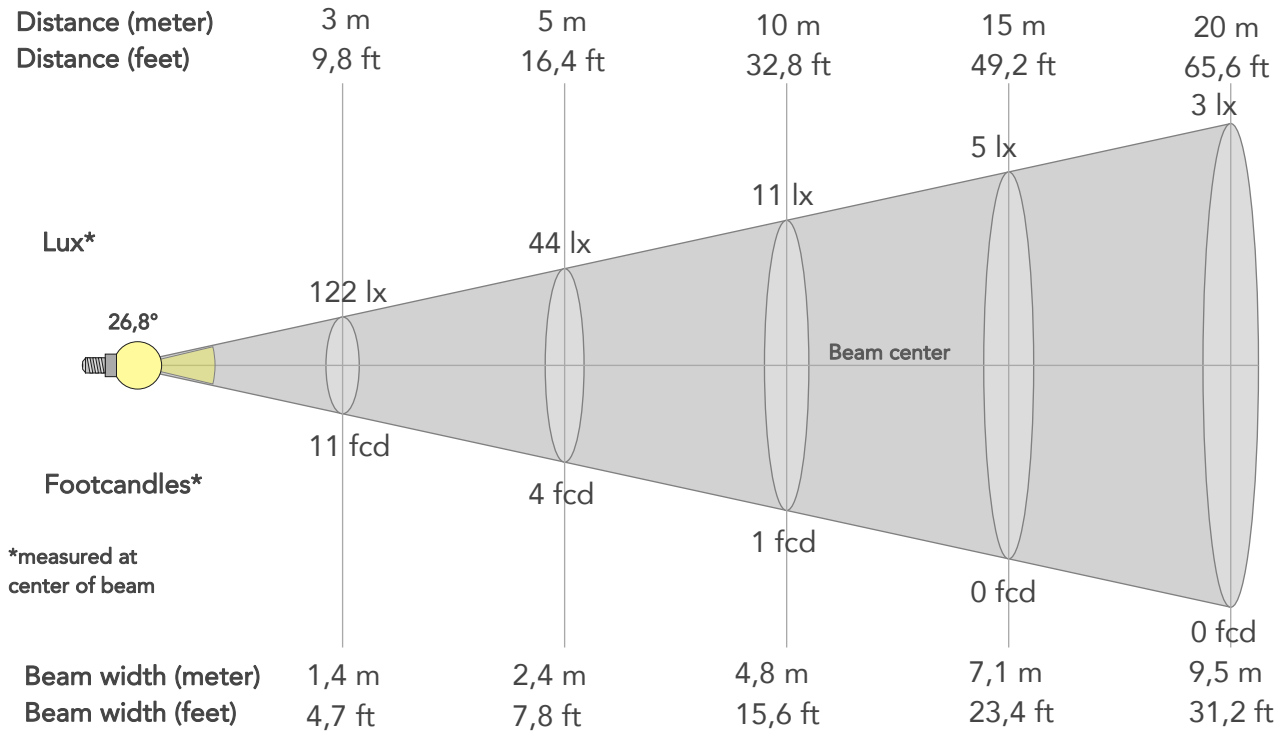
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	94	2%	-1%
3	92	2%	-1%
4	94	1%	-2%
5	94	2%	2%
6	90	5%	4%
7	91	5%	0%
8	86	8%	-2%
9	90	4%	-4%
10	88	3%	-6%
11	91	2%	-6%
12	87	3%	-7%
13	88	2%	-8%
14	92	1%	-5%
15	94	1%	-2%
16	93	1%	-4%



BEAM DETAILS



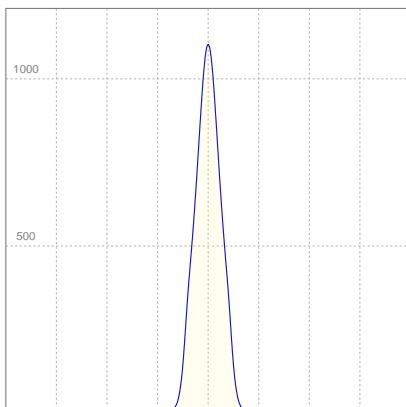
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,8°	47,1°	56,1°	99,9%	99,7%



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	1101lx	275lx	122lx	69lx	44lx	20lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	102fcd	26fcd	11fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,1m	9,5m	11,9m	14,3m	19m	23,8m
Beam wid.	1,6ft	3,1ft	4,7ft	6,2ft	7,8ft	11,7ft	15,6ft	23,4ft	31,2ft	39ft	46,8ft	62,5ft	78,1ft

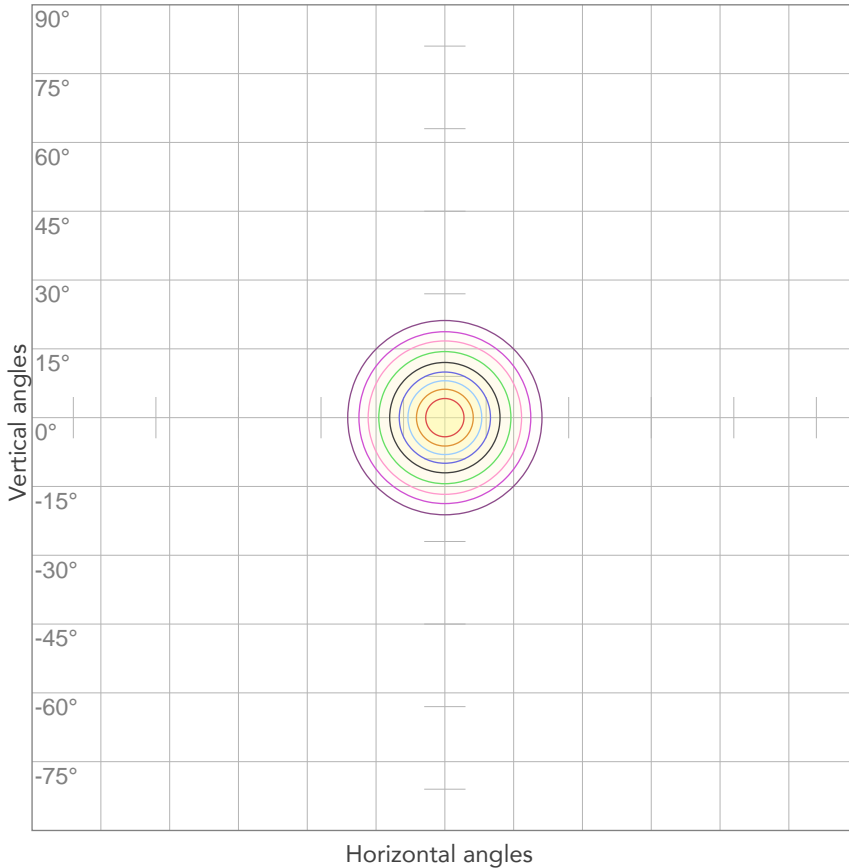
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,110A	22,5W	12lm/W

ISO CANDELA DIAGRAM



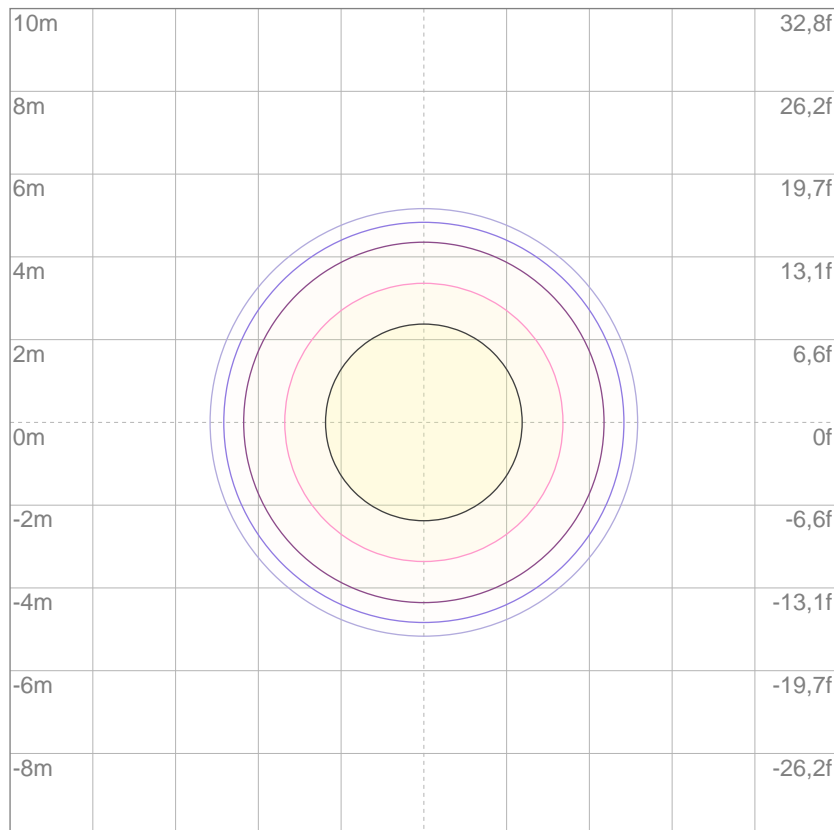
10%	110 cd
20%	220 cd
30%	330 cd
40%	440 cd
50%	550 cd
60%	660 cd
70%	770 cd
80%	880 cd

Conditions:

Number of c-planes: 2

Candela at center: 1101 cd

ISO LUX DIAGRAM



3%	0,330 lx
5%	0,550 lx
10%	1,10 lx
30%	3,30 lx
50%	5,50 lx

Conditions:

Number of c-planes: 2

Lux at center: 11,0 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:

233 lm

Peak candela output:

2260 cd

Light quality:

CRI: 92,4

Color temperature:

2820 K

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

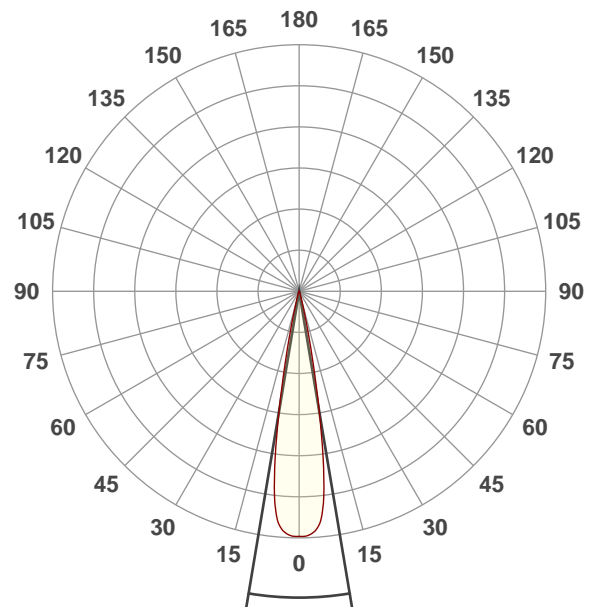
2800K

Operator:

Paolo Carvone

Date and time:

14/01/2021 11:56:20

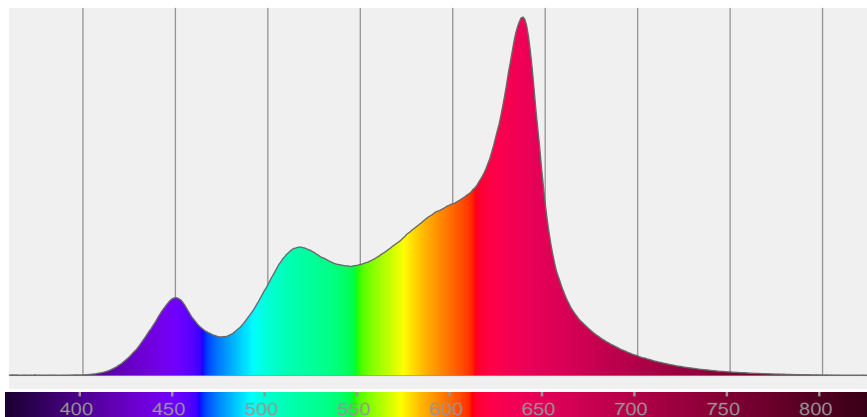


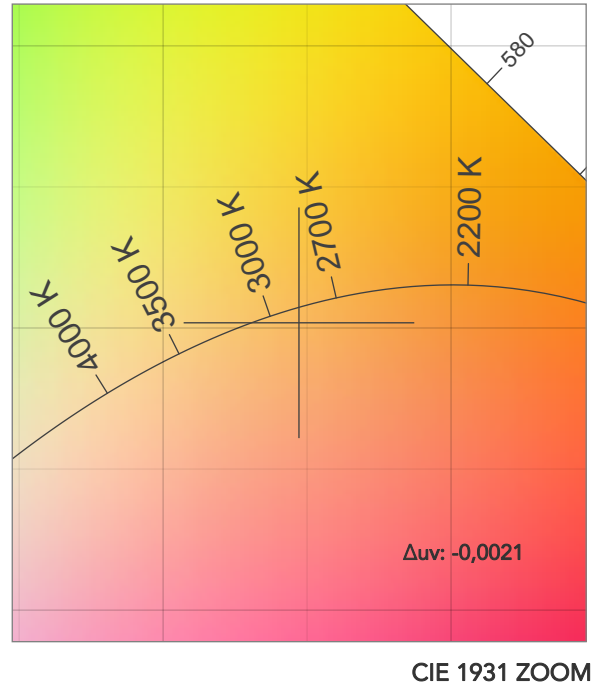
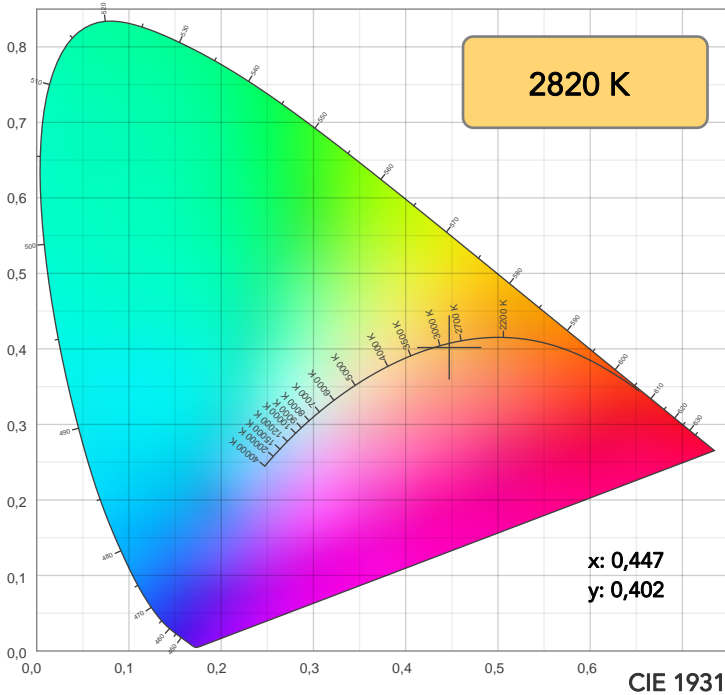
Beam angle 50%: 19°

Field angle 10%: 27,1°

Cut off angle 2.5%: 34,5°

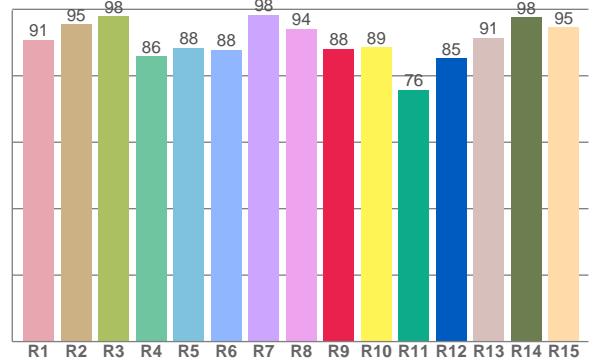
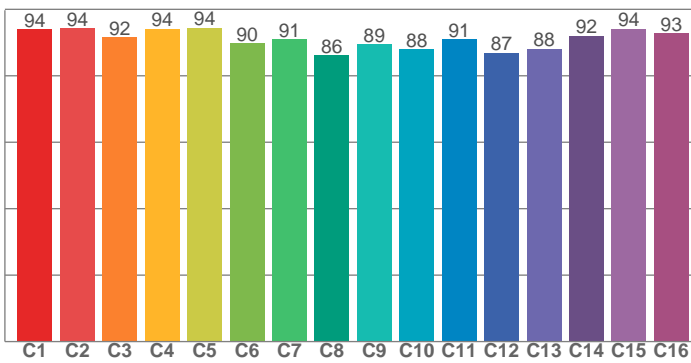
Spectra





TM30: 91,6

CRI: 92,4 (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
90,8	95,5	97,9	85,9	88,5	87,8	98,4	94,1	88,1	88,6	75,8	85,2	91,5	97,7	94,6

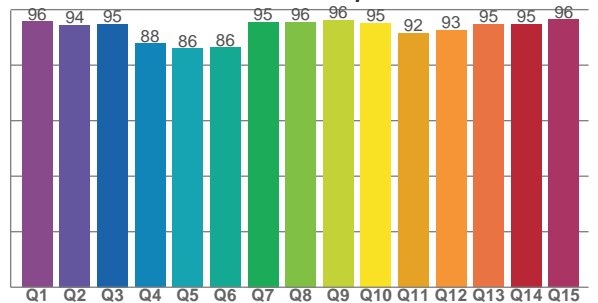
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,0	94,3	91,6	94,2	94,3	89,8	91,0	86,1	89,4	88,0	91,0	86,9	88,0	92,1	94,1	92,7

CQS Q values

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

CQS: 92,1



COLOR PARAMETERS

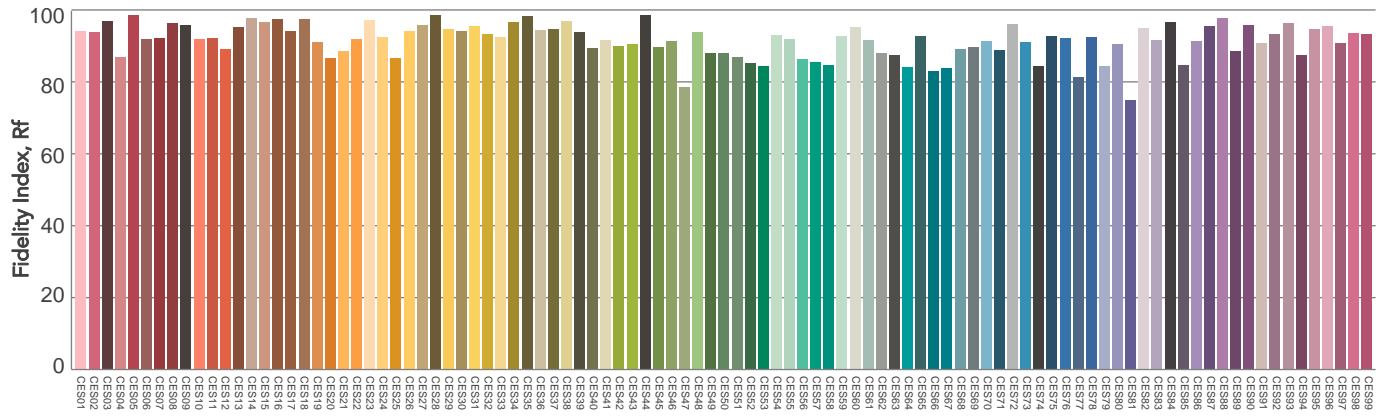
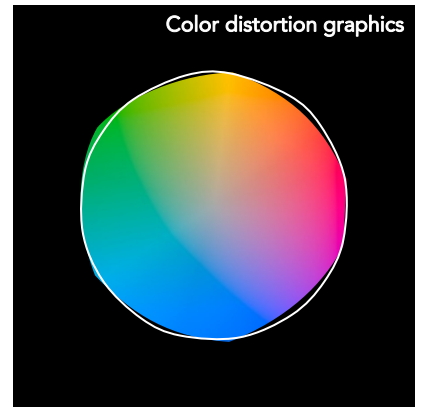
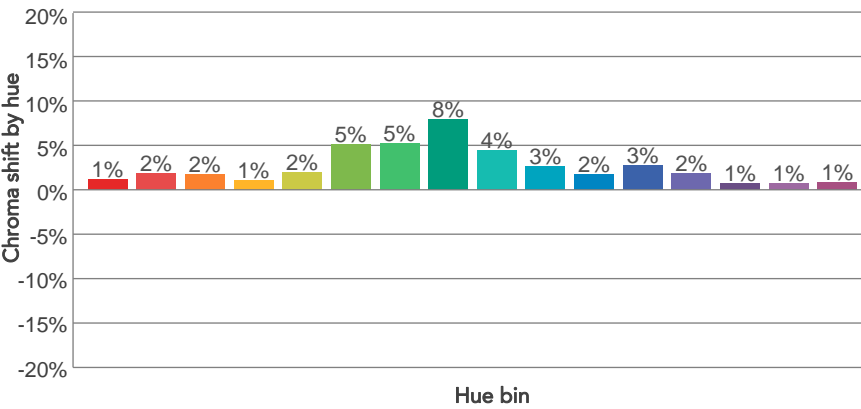
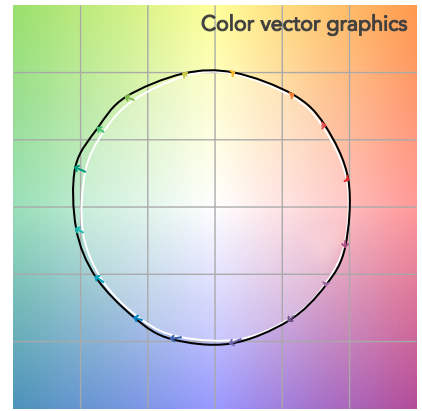
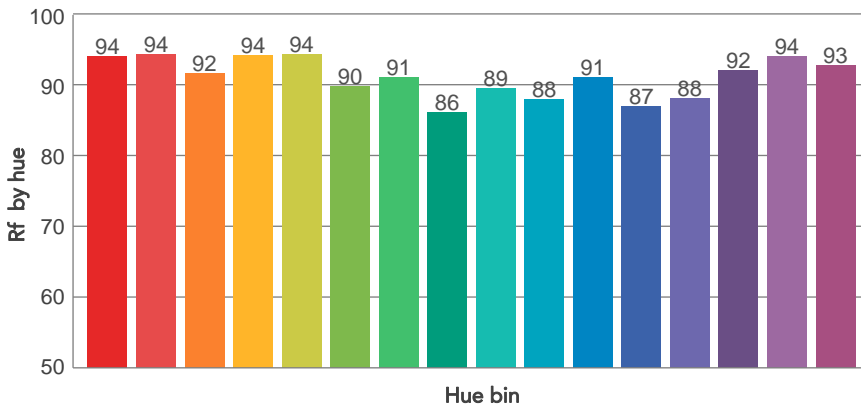
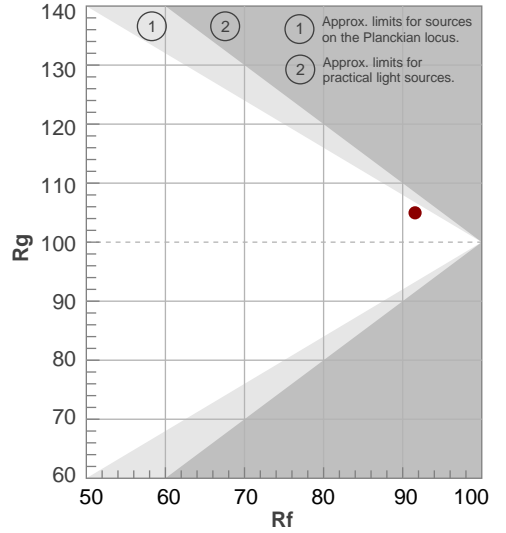
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2820 K	92,4	88,1	91,6	105,0	92,1	83	0,447	0,402	-0,0021

TM30 DETAILS

Rf 91,6
Fidelity index Rf

Rg 105,0
Gammut index

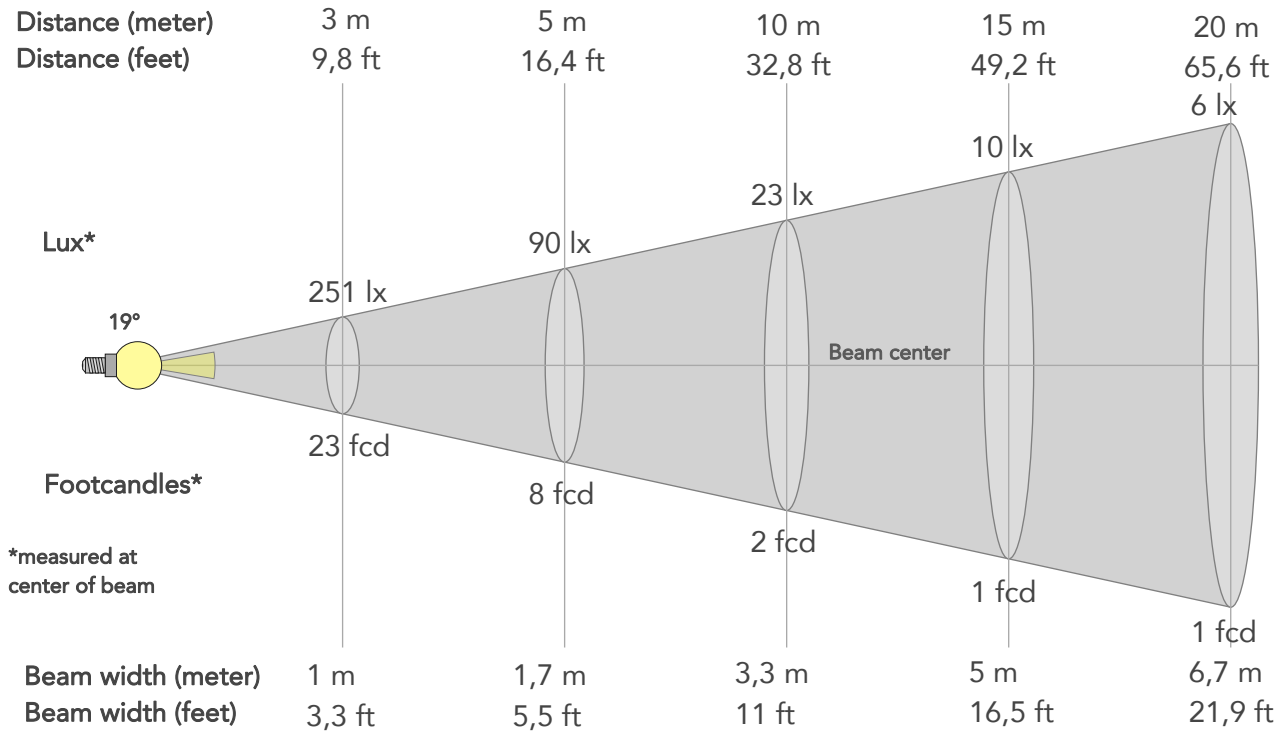
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	94	2%	-1%
3	92	2%	-1%
4	94	1%	-2%
5	94	2%	2%
6	90	5%	4%
7	91	5%	0%
8	86	8%	-2%
9	89	4%	-4%
10	88	3%	-7%
11	91	2%	-6%
12	87	3%	-7%
13	88	2%	-8%
14	92	1%	-5%
15	94	1%	-2%
16	93	1%	-4%



BEAM DETAILS



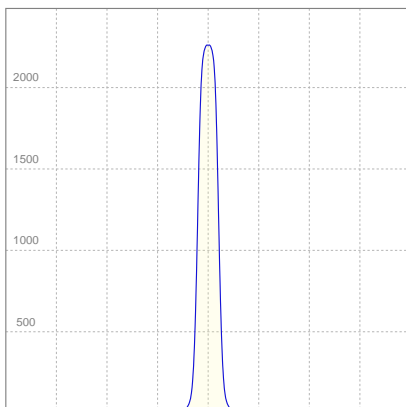
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19°	27,1°	34,5°	100,0%	99,9%



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	2260lx	565lx	251lx	141lx	90lx	40lx	23lx	10lx	6lx	4lx	3lx	1lx	1lx
Footcand.	210fcd	52fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,7m	8,4m	10m	13,4m	16,7m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,2ft	11ft	16,5ft	21,9ft	27,4ft	32,9ft	43,9ft	54,9ft

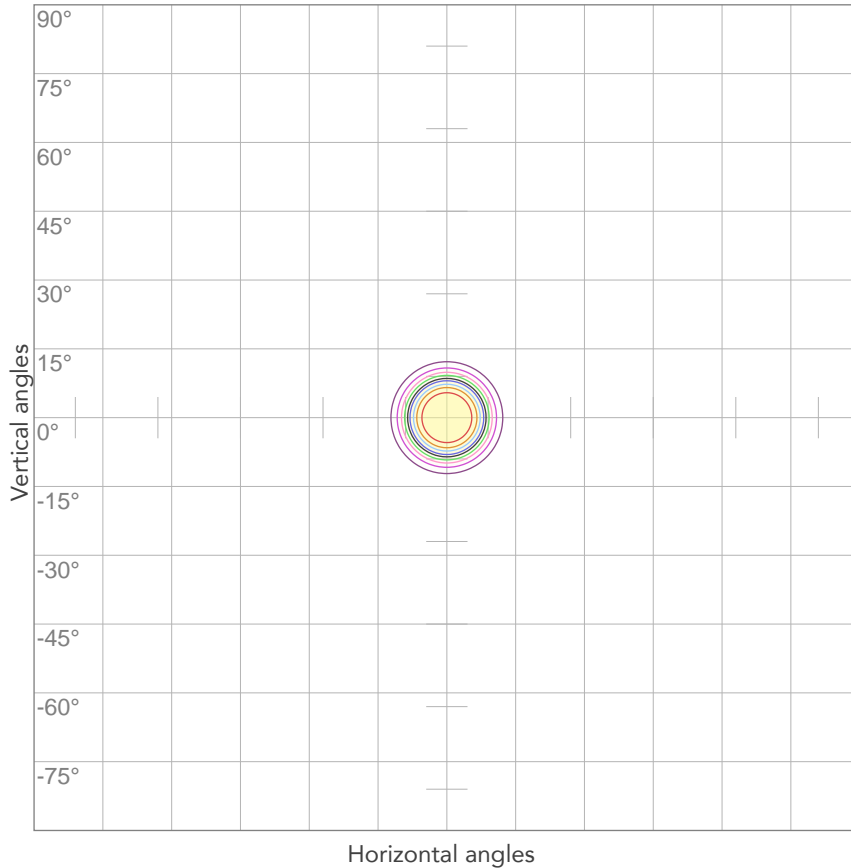
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,110A	22,6W	10lm/W

ISO CANDELA DIAGRAM



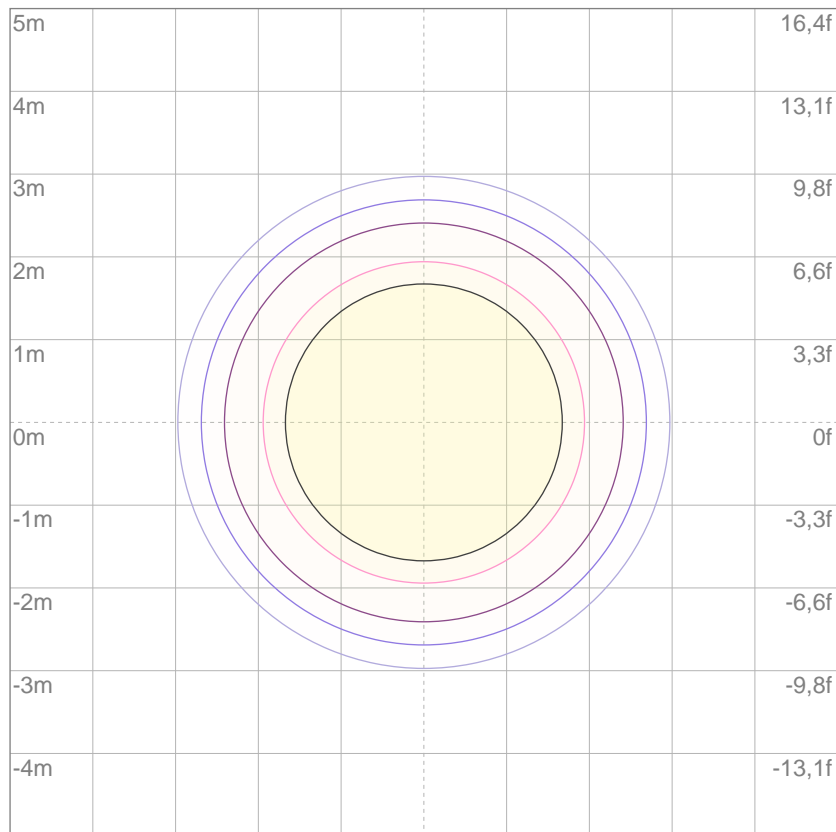
10%	226 cd
20%	452 cd
30%	678 cd
40%	904 cd
50%	1130 cd
60%	1356 cd
70%	1582 cd
80%	1808 cd

Conditions:

Number of c-planes: 2

Candela at center: 2260 cd

ISO LUX DIAGRAM



3%	0,678 lx
5%	1,13 lx
10%	2,26 lx
30%	6,78 lx
50%	11,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 22,6 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:

265 lm

Peak candela output:

1119 cd

Light quality:

CRI: 93,3

Color temperature:

3171 K

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

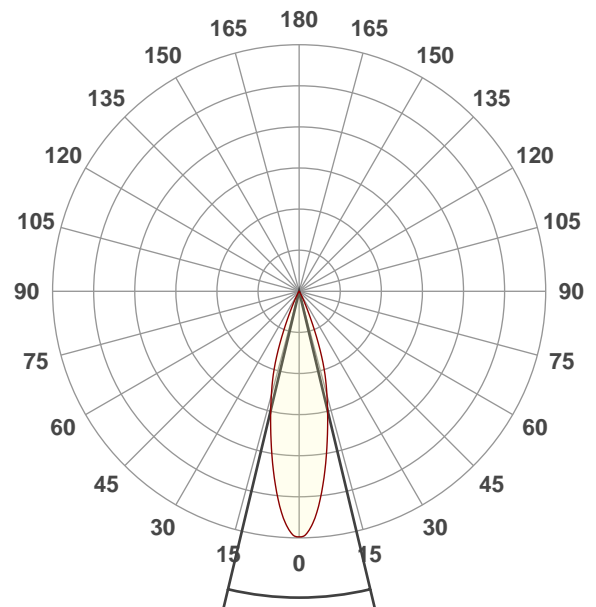
3200K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:12:31

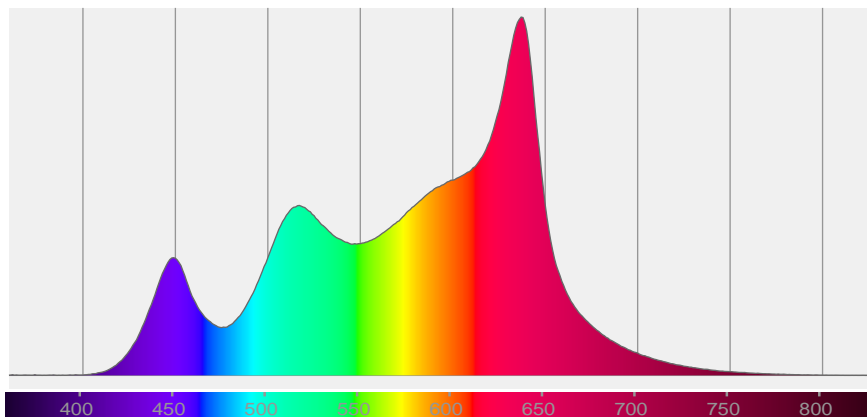


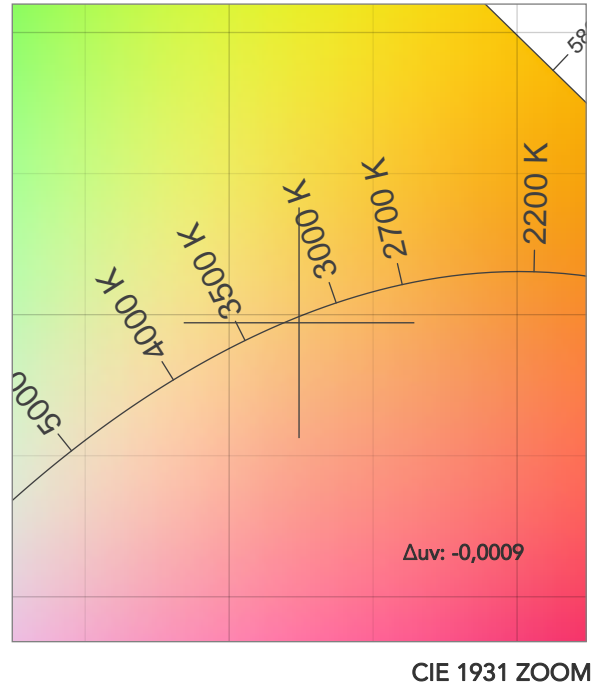
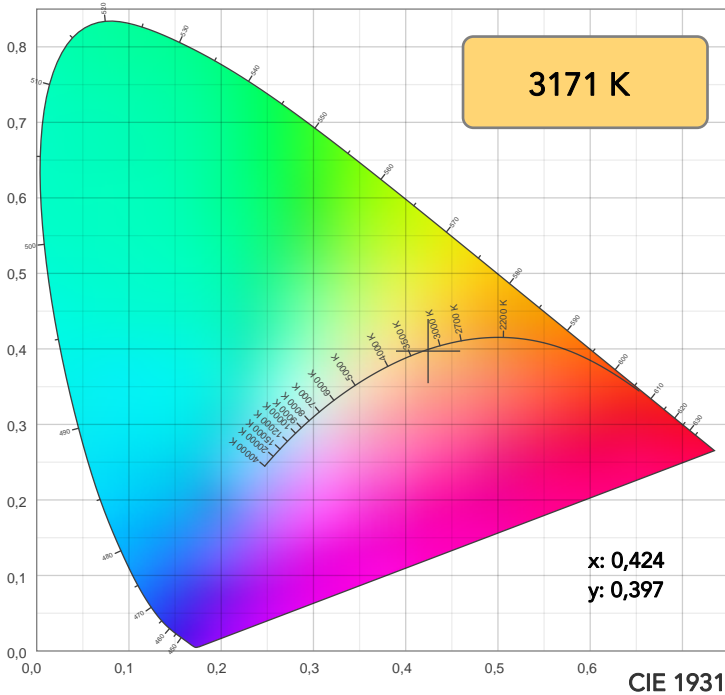
Beam angle 50%: 26,9°

Field angle 10%: 47°

Cut off angle 2.5%: 56,2°

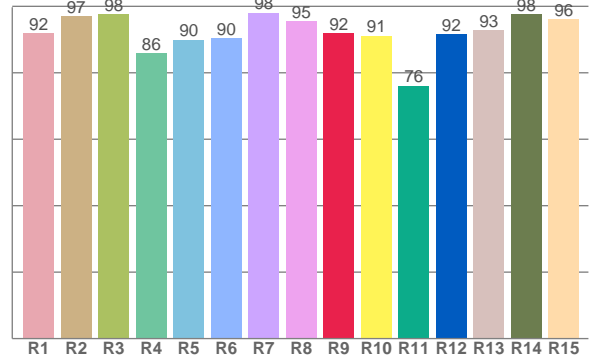
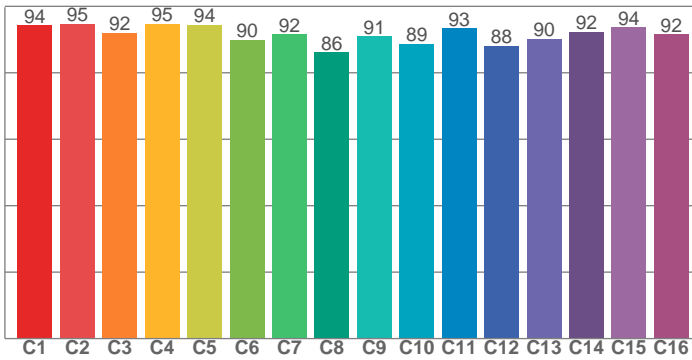
Spectra





TM30: 92,2

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
91,8	97,0	97,6	86,0	90,0	90,3	98,1	95,4	91,9	91,2	76,1	91,6	92,7	97,6	96,2

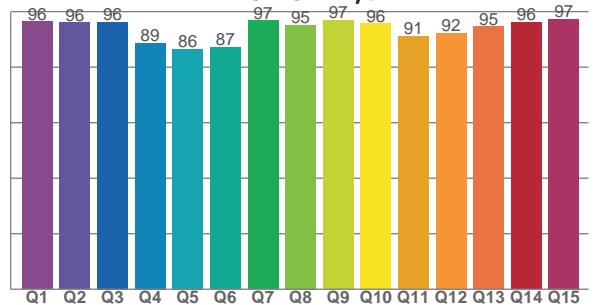
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	94,6	92,0	94,7	94,3	89,9	91,6	86,2	90,9	88,6	93,4	88,1	90,2	92,3	93,6	91,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,4	96,0	96,3	88,7	86,5	87,1	96,8	95,2	96,9	95,7	91,1	92,3	94,6	96,1	97,4

CQS: 92,6



COLOR PARAMETERS

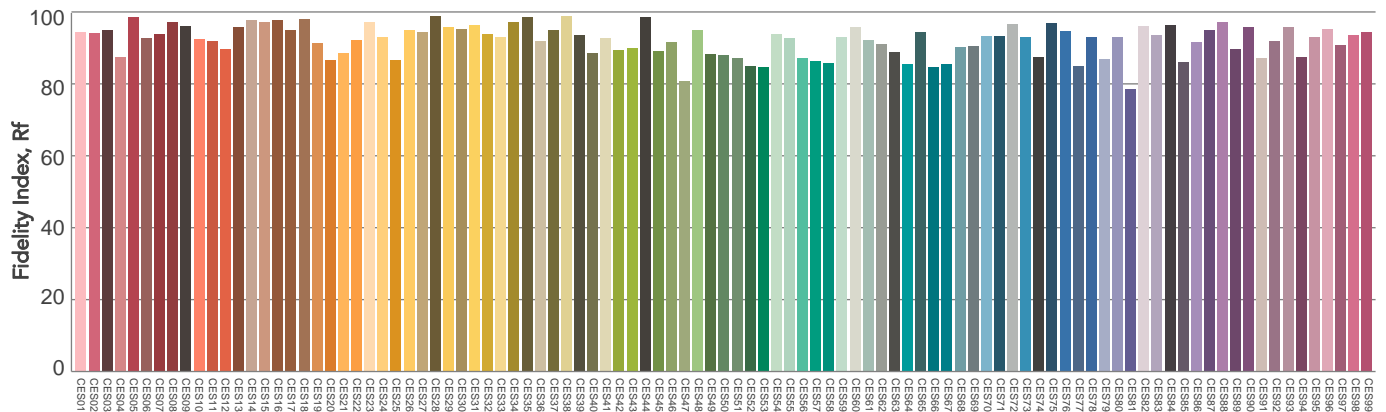
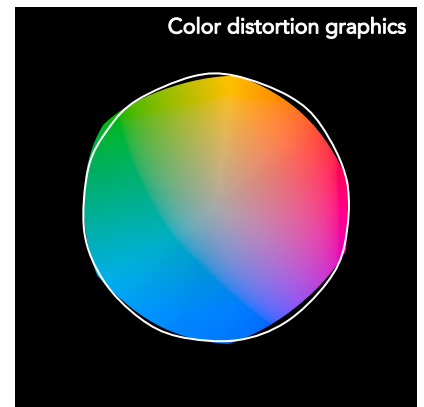
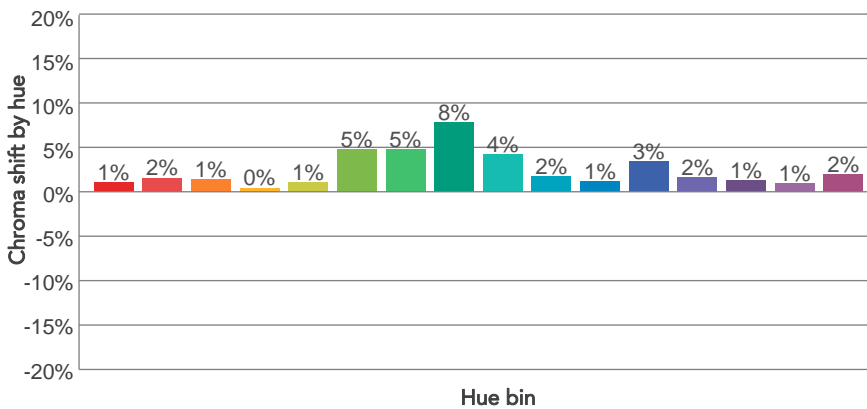
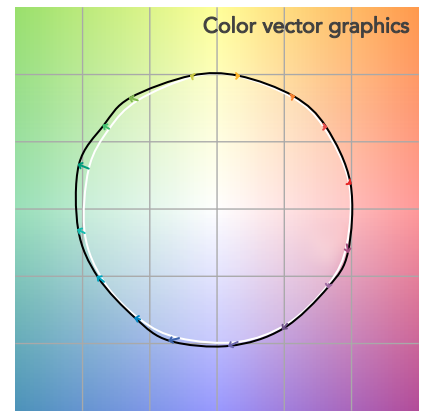
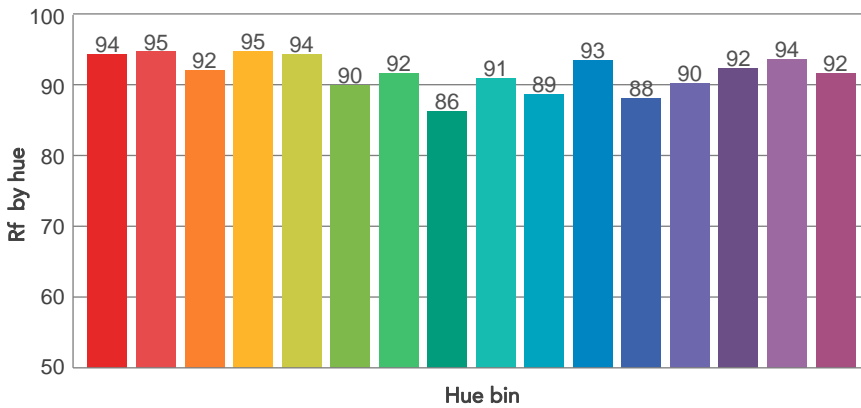
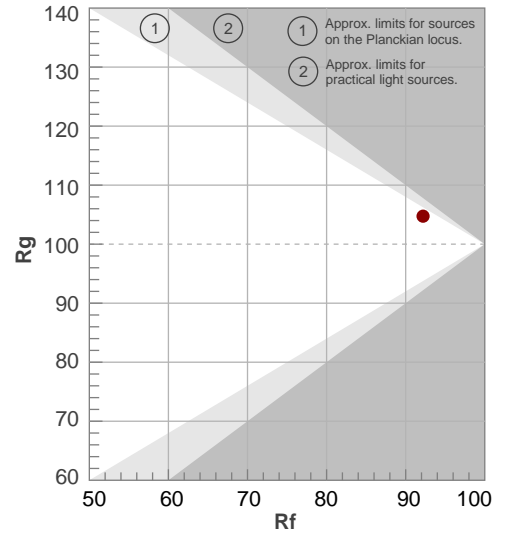
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3171 K	93,3	91,9	92,2	104,7	92,6	83	0,424	0,397	-0,0009

TM30 DETAILS

Rf 92,2
Fidelity index Rf

Rg 104,7
Gammut index

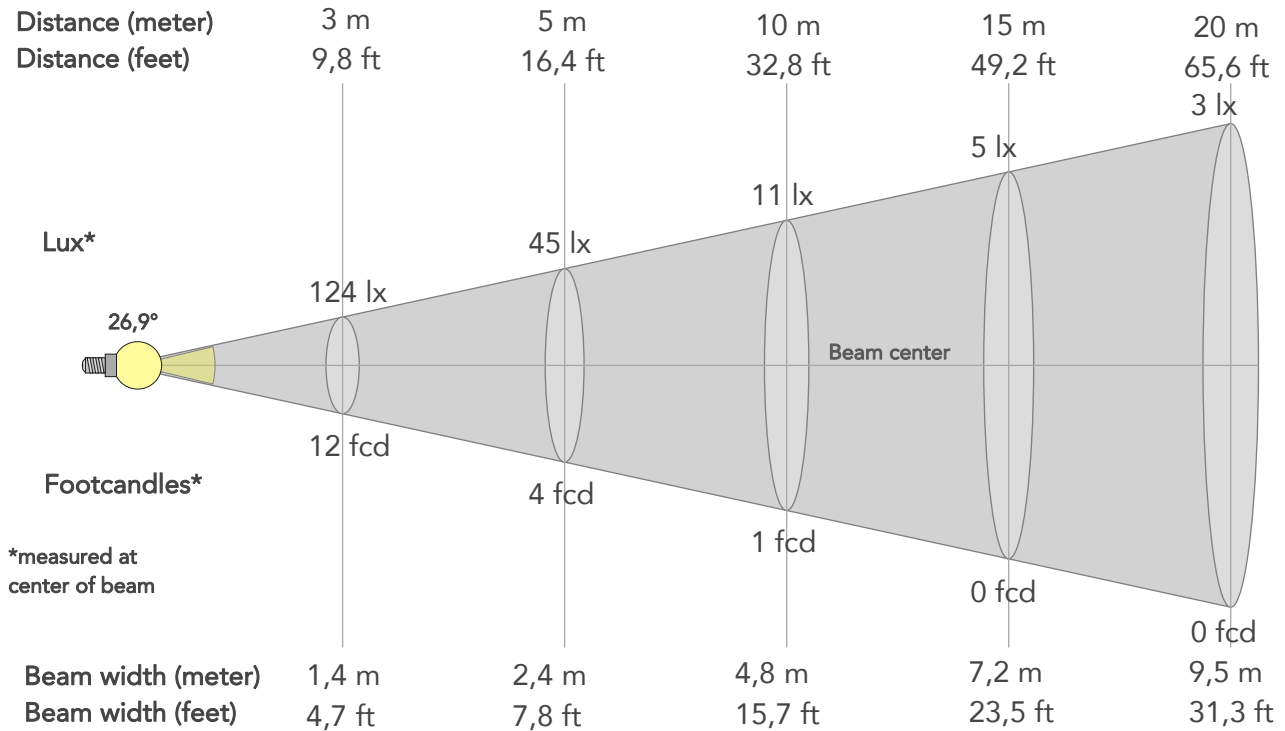
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	95	2%	-1%
3	92	1%	-1%
4	95	0%	-2%
5	94	1%	2%
6	90	5%	4%
7	92	5%	0%
8	86	8%	-1%
9	91	4%	-3%
10	89	2%	-6%
11	93	1%	-3%
12	88	3%	-6%
13	90	2%	-7%
14	92	1%	-5%
15	94	1%	-2%
16	92	2%	-5%



BEAM DETAILS



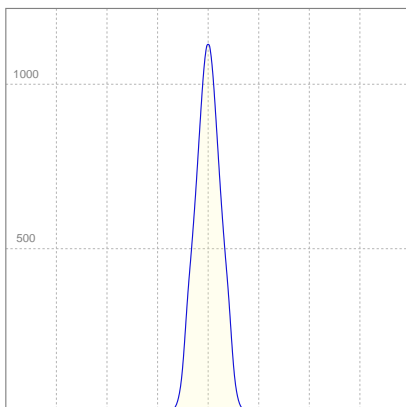
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,9°	47°	56,2°	100,0%	99,7%



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	1119lx	280lx	124lx	70lx	45lx	20lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	104fcd	26fcd	12fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,5m	11,9m	14,3m	19,1m	23,9m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,8ft	11,7ft	15,7ft	23,5ft	31,3ft	39,1ft	47ft	62,6ft	78,3ft

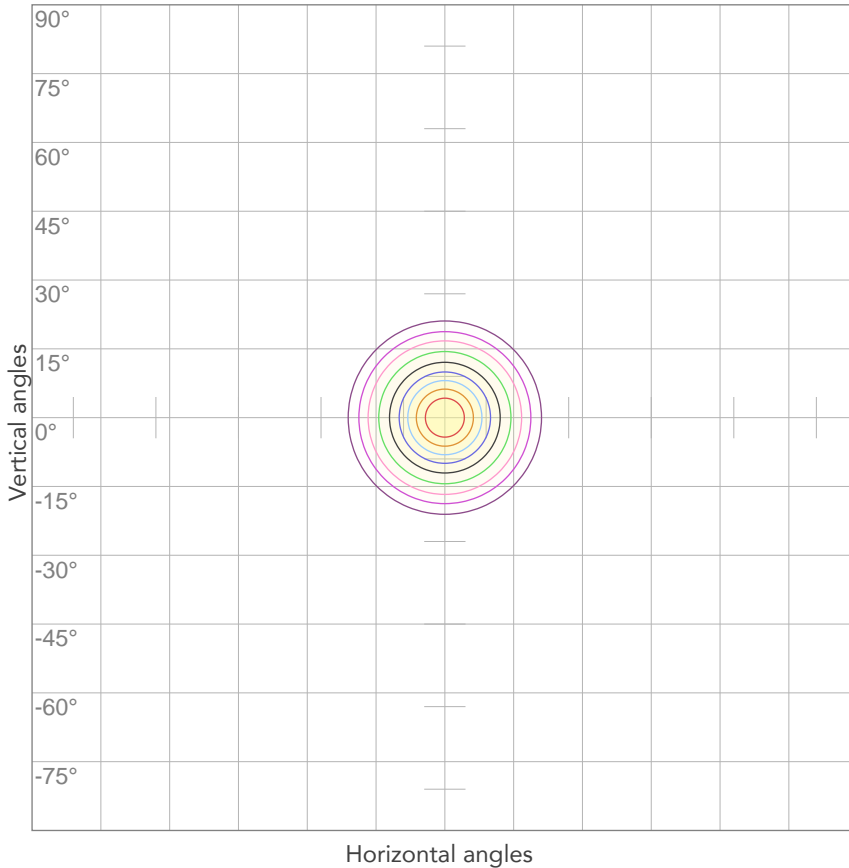
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,111A	22,8W	12lm/W

ISO CANDELA DIAGRAM



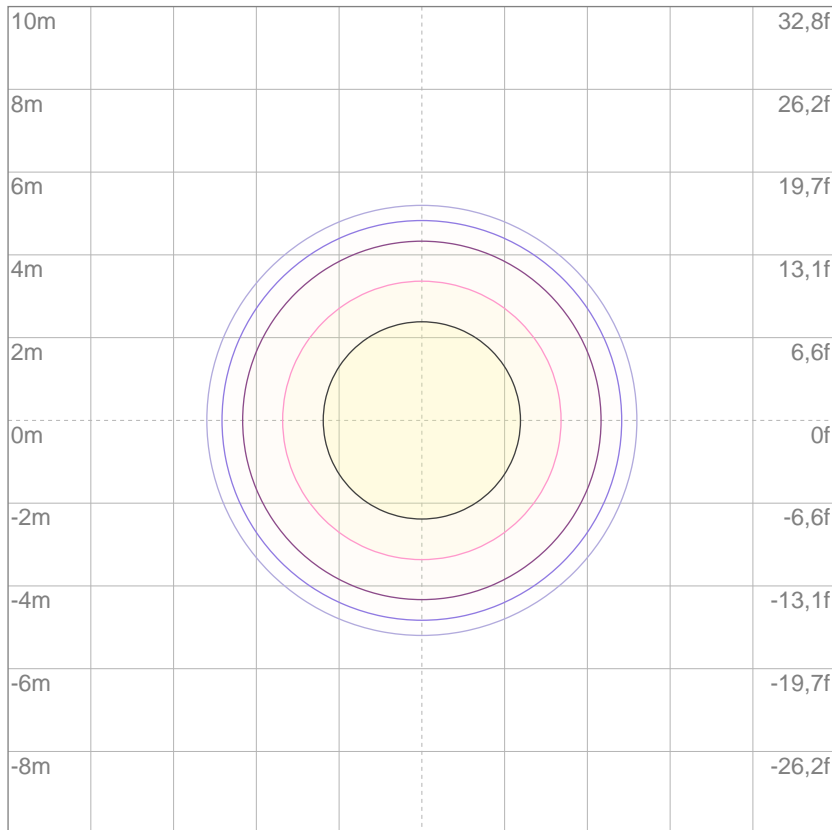
10%	112 cd
20%	224 cd
30%	336 cd
40%	447 cd
50%	559 cd
60%	671 cd
70%	783 cd
80%	895 cd

Conditions:

Number of c-planes: 2

Candela at center: 1119 cd

ISO LUX DIAGRAM



3%	0,336 lx
5%	0,559 lx
10%	1,12 lx
30%	3,36 lx
50%	5,59 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.

Mounting height: 10 meters (33 feet)



Total lumen output:

234 lm

Peak candela output:

2278 cd

Light quality:

CRI: 92,9

Color temperature:

2982 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

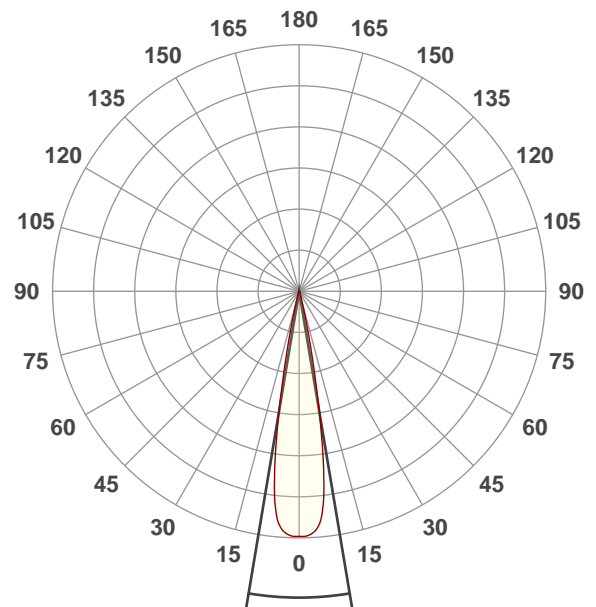
3200K

Operator:

Paolo Carvone

Date and time:

14/01/2021 11:58:07

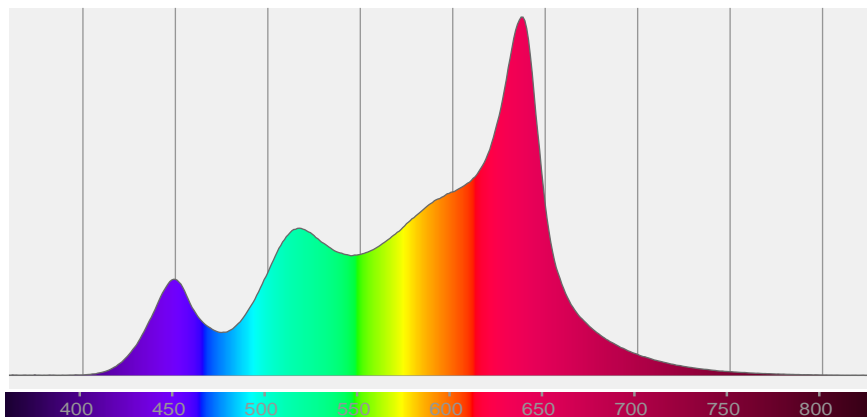


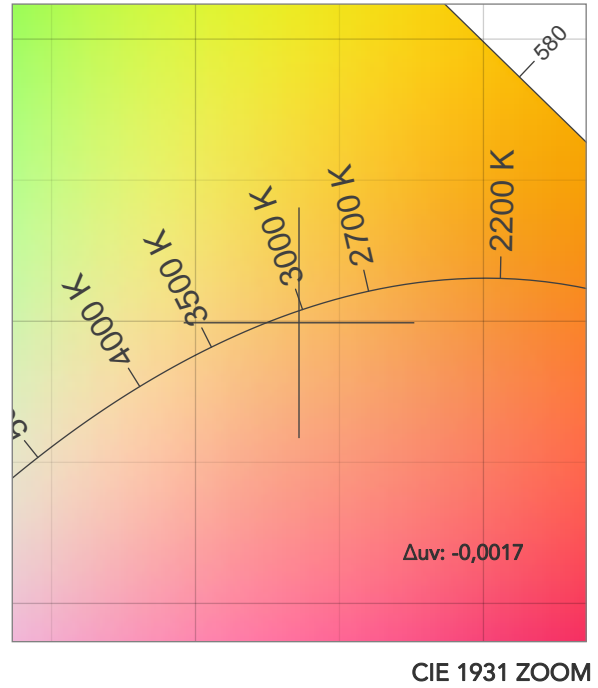
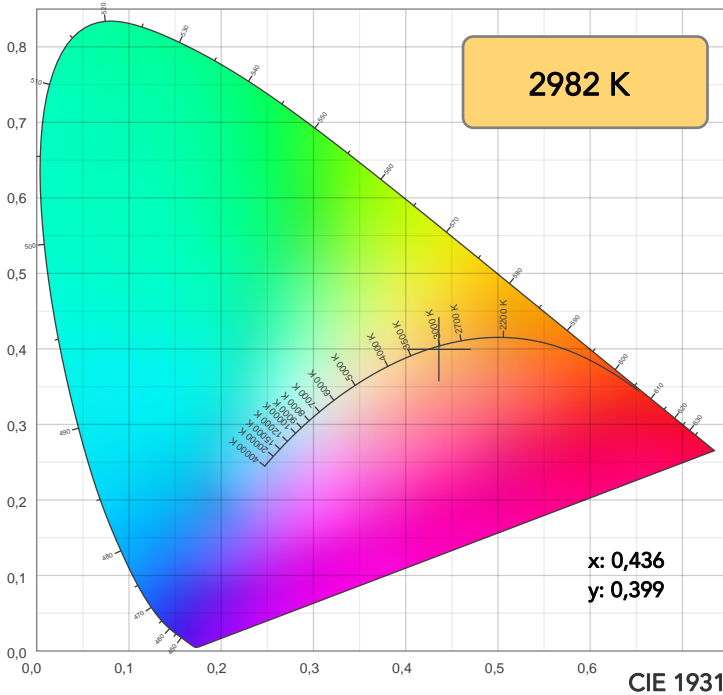
Beam angle 50%: 19°

Field angle 10%: 27,1°

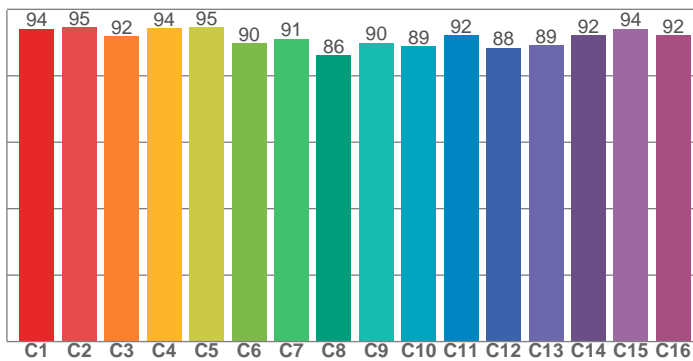
Cut off angle 2.5%: 34,5°

Spectra

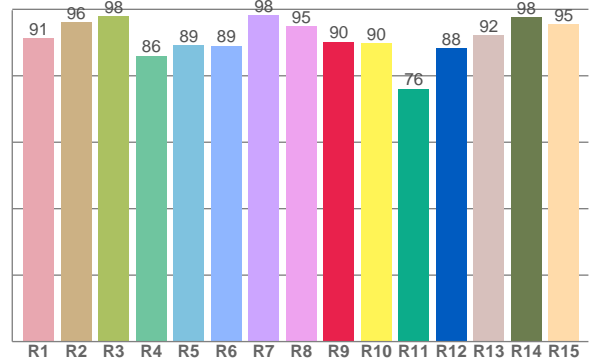




TM30: 91,9



CRI: 92,9 (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
91,4	96,2	97,9	86,1	89,3	89,1	98,2	95,0	90,3	89,9	76,1	88,4	92,1	97,7	95,5

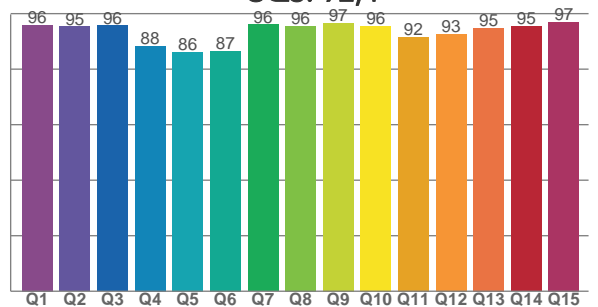
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	94,5	91,9	94,3	94,5	89,8	91,2	86,2	89,8	88,9	92,2	88,3	89,1	92,1	94,1	92,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,9	95,3	95,7	88,4	86,2	86,6	96,0	95,6	96,6	95,6	91,5	92,7	94,8	95,5	97,0

CQS: 92,4



COLOR PARAMETERS

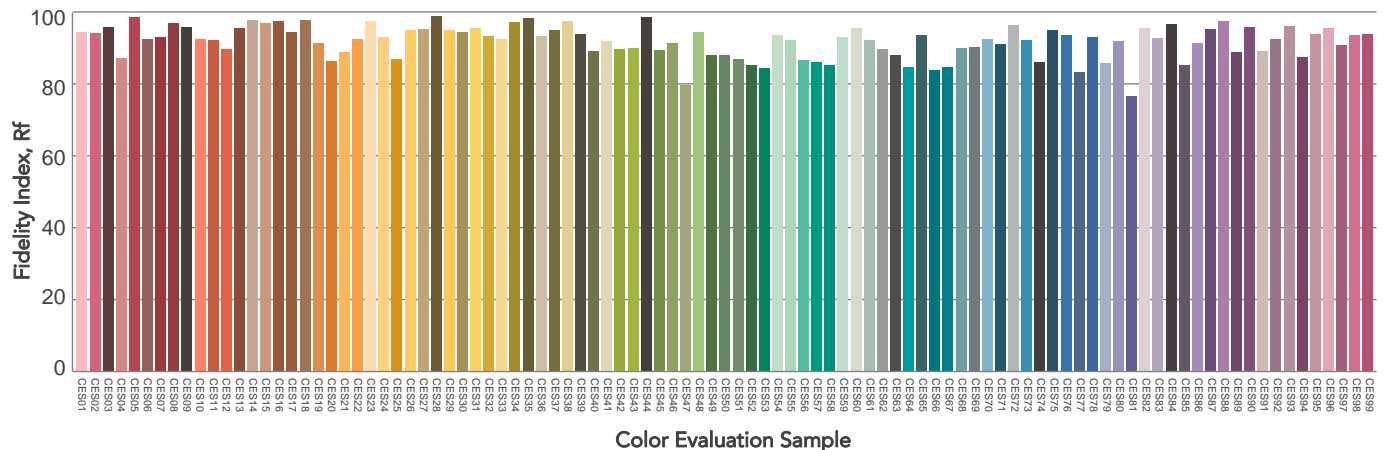
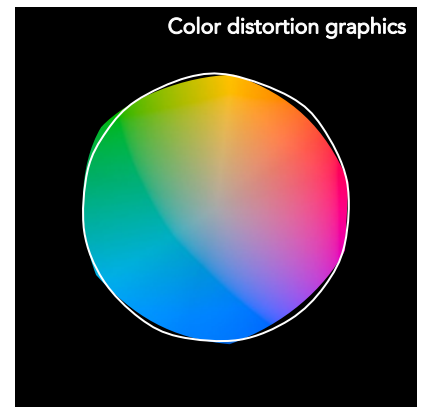
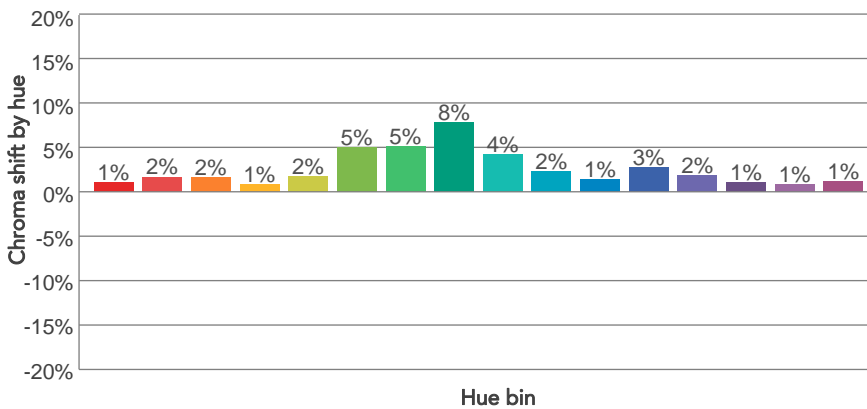
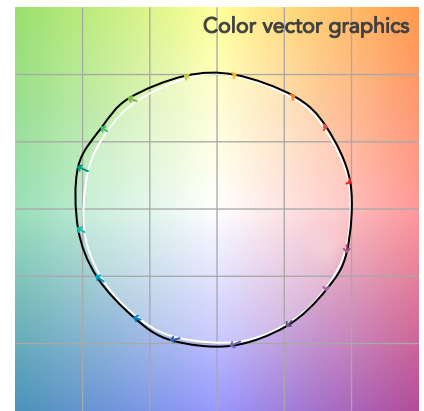
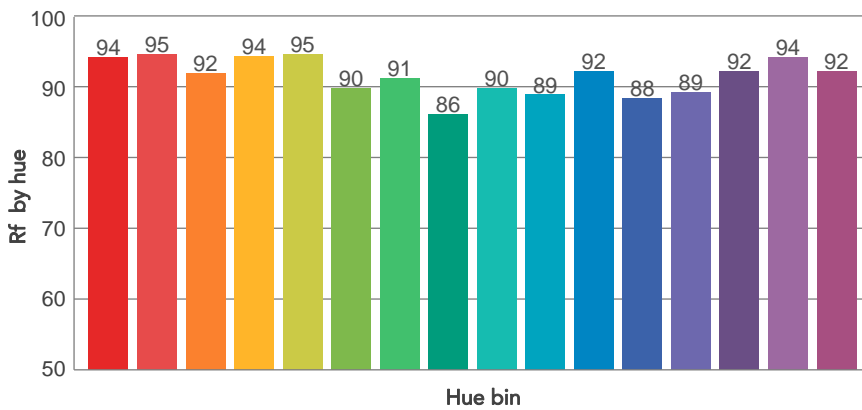
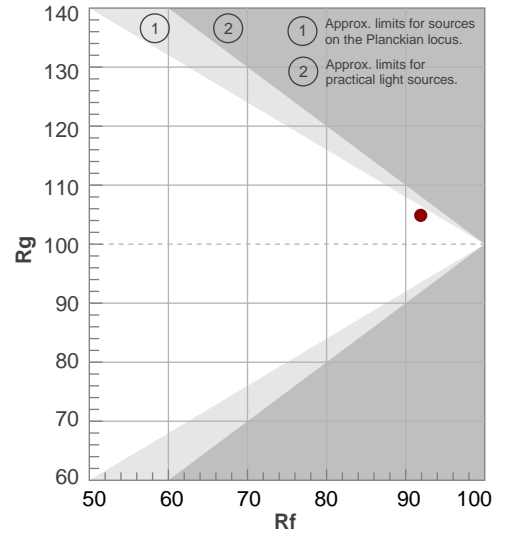
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2982 K	92,9	90,3	91,9	104,9	92,4	83	0,436	0,399	-0,0017

TM30 DETAILS

Rf 91,9
Fidelity index Rf

Rg 104,9
Gammut index

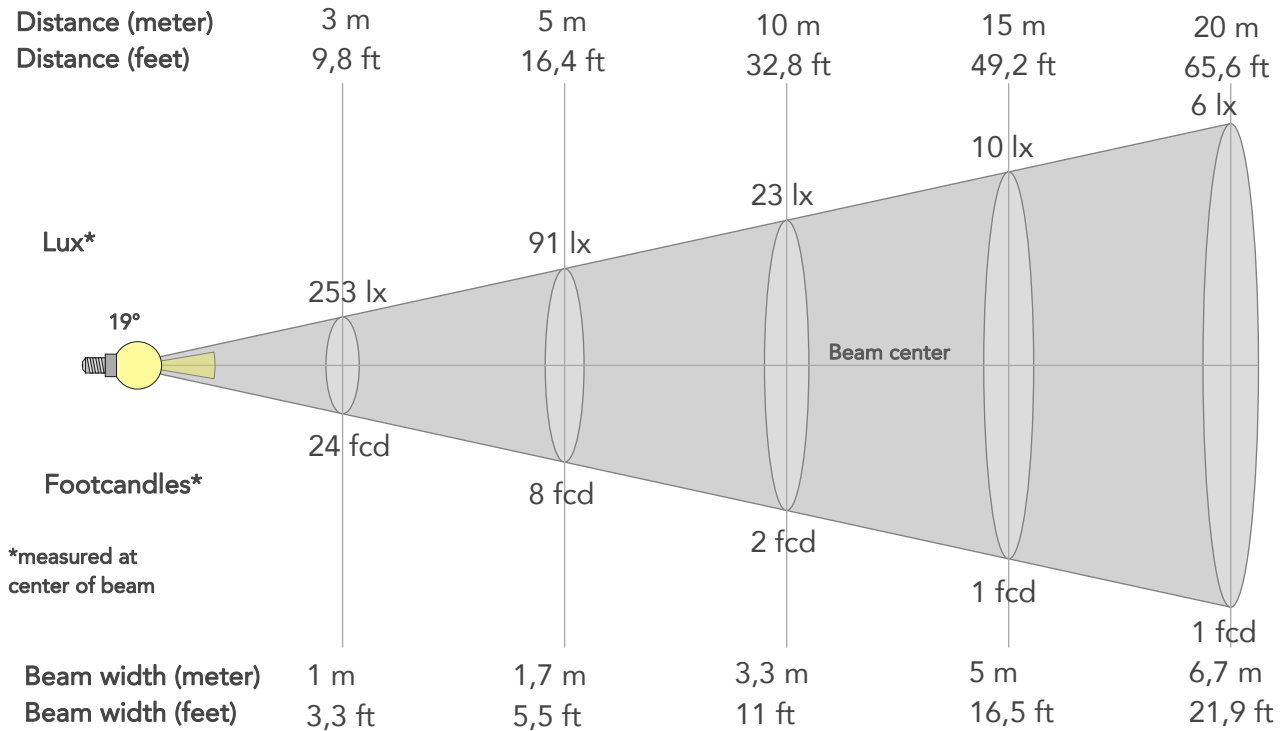
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	95	2%	-1%
3	92	2%	-1%
4	94	1%	-2%
5	95	2%	2%
6	90	5%	4%
7	91	5%	0%
8	86	8%	-2%
9	90	4%	-4%
10	89	2%	-6%
11	92	1%	-5%
12	88	3%	-6%
13	89	2%	-8%
14	92	1%	-5%
15	94	1%	-1%
16	92	1%	-5%



BEAM DETAILS



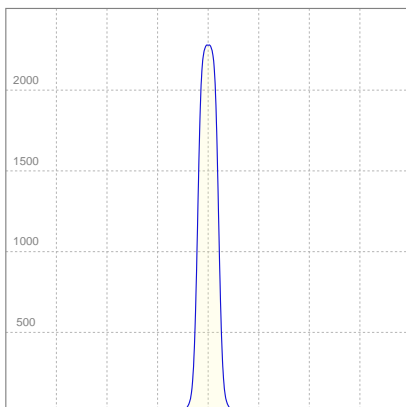
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19°	27,1°	34,5°	100,0%	99,9%



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	2278lx	570lx	253lx	142lx	91lx	40lx	23lx	10lx	6lx	4lx	3lx	1lx	1lx
Footcand.	212fcd	53fcd	24fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,7m	8,4m	10m	13,4m	16,7m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,2ft	11ft	16,5ft	21,9ft	27,4ft	32,9ft	43,9ft	54,9ft

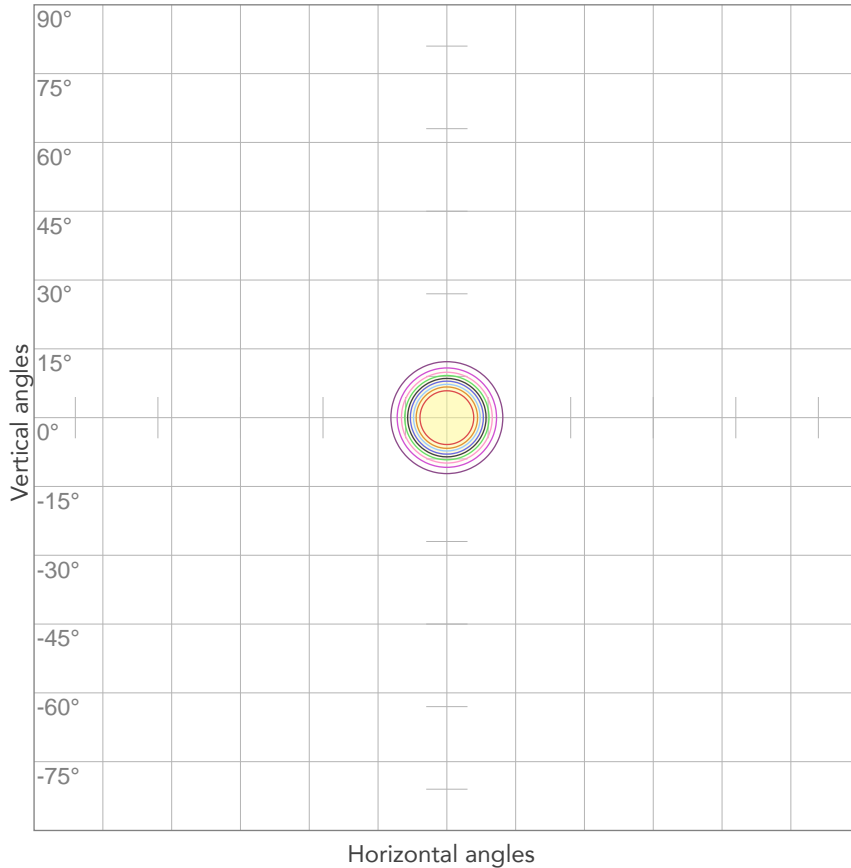
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,111A	22,6W	10lm/W

ISO CANDELA DIAGRAM



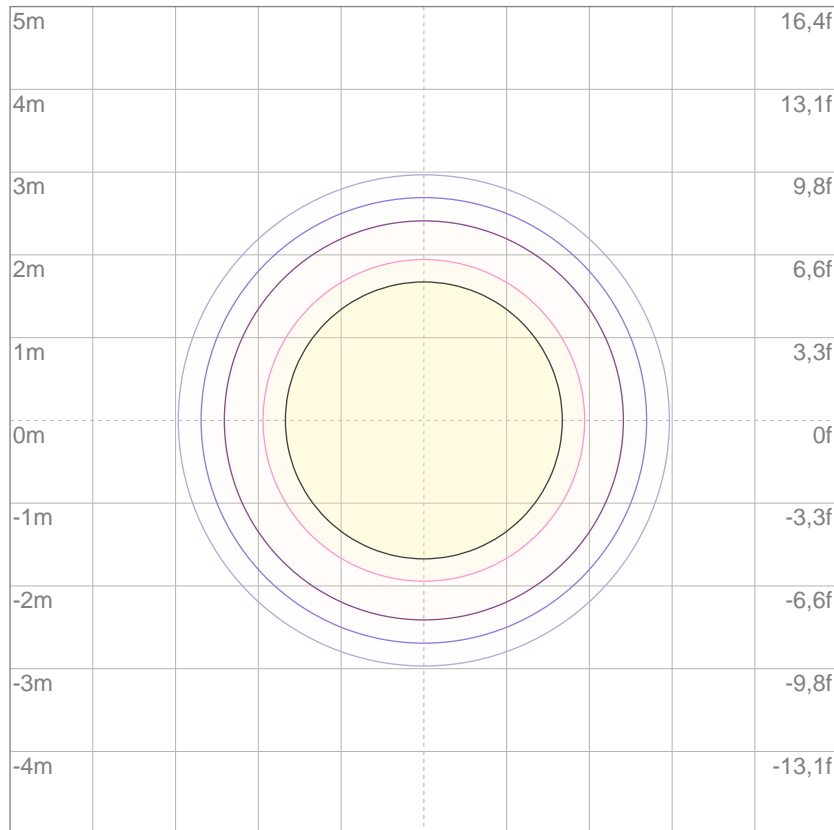
10%	228 cd
20%	456 cd
30%	683 cd
40%	911 cd
50%	1139 cd
60%	1367 cd
70%	1595 cd
80%	1822 cd

Conditions:

Number of c-planes: 2

Candela at center: 2278 cd

ISO LUX DIAGRAM



3%	0,683 lx
5%	1,14 lx
10%	2,28 lx
30%	6,83 lx
50%	11,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 22,8 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:

277 lm

Peak candela output:

1156 cd

Light quality:

CRI: 93,5

Color temperature:

3910 K

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

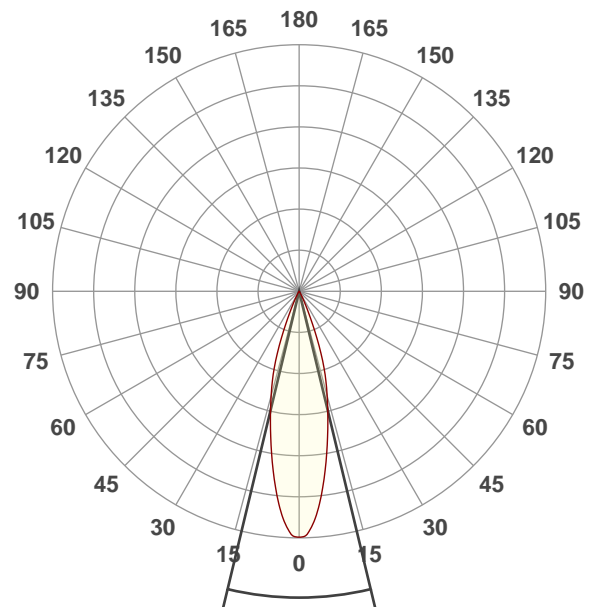
4000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:14:35

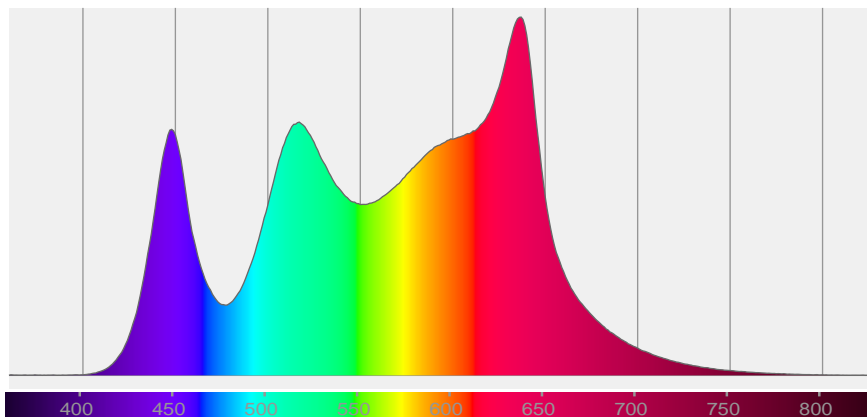


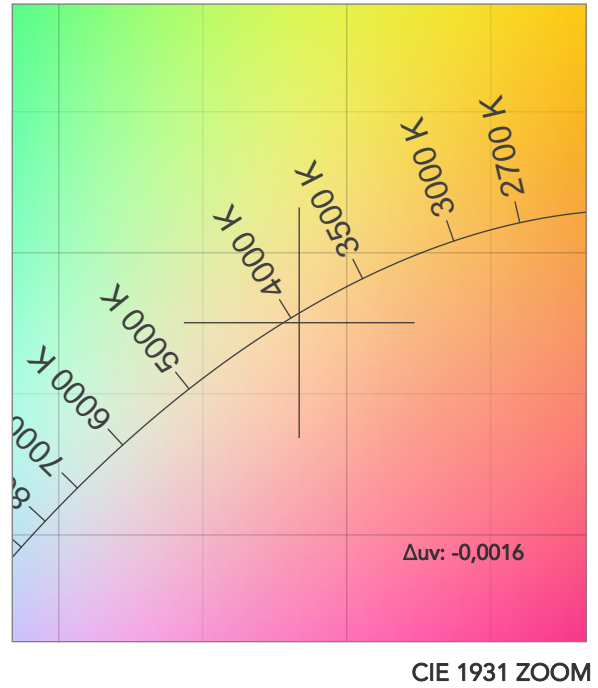
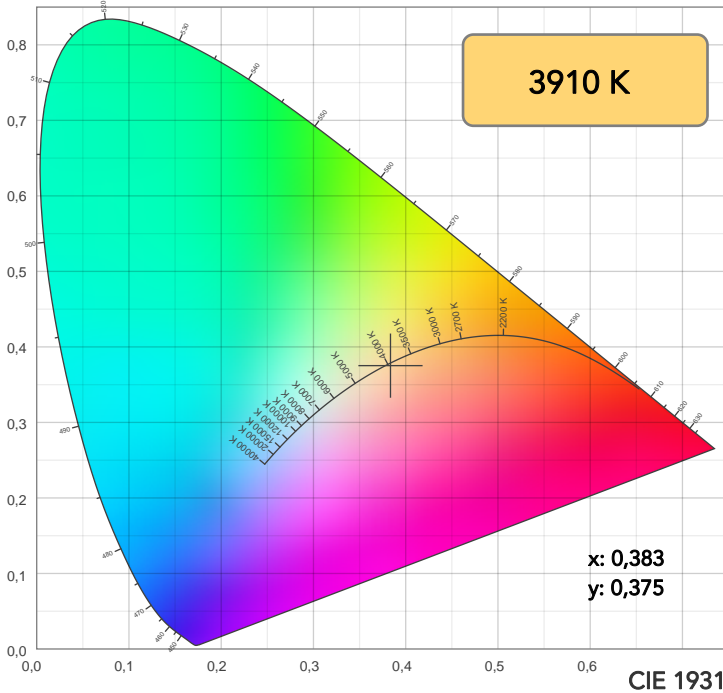
Beam angle 50%: 27°

Field angle 10%: 47°

Cut off angle 2.5%: 56,3°

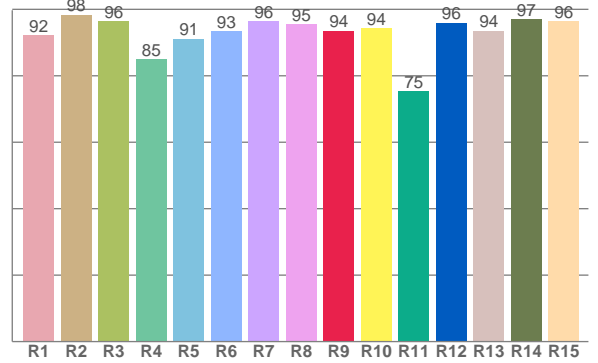
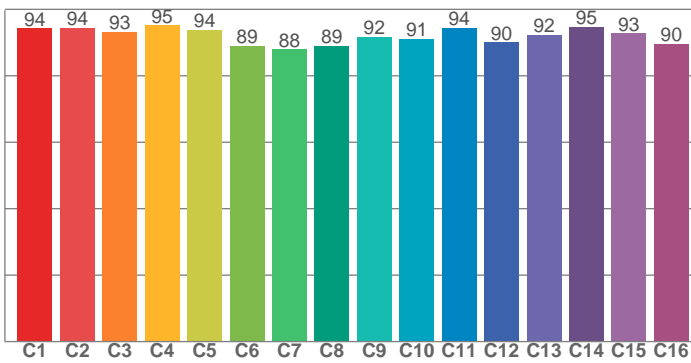
Spectra





TM30: 92,4

CRI: 93,5 (R1-R8)



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

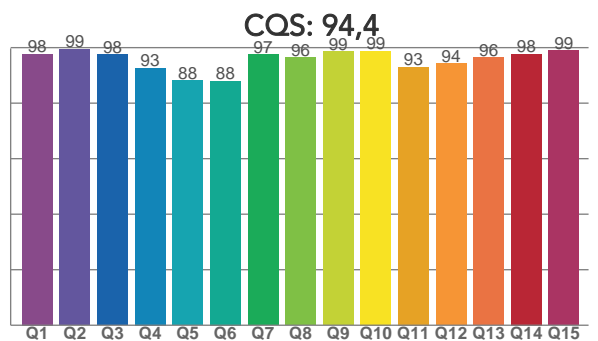
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,3	98,4	96,4	84,9	91,2	93,3	96,4	95,5	93,6	94,2	75,3	96,0	93,5	97,0	96,4

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
94,3	94,5	93,1	95,2	93,8	89,1	87,9	89,0	91,7	91,0	94,4	90,0	92,3	94,6	92,7	89,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,6	99,4	97,5	92,6	88,2	88,0	97,5	96,5	98,6	98,8	93,1	94,3	96,4	97,7	99,0



COLOR PARAMETERS

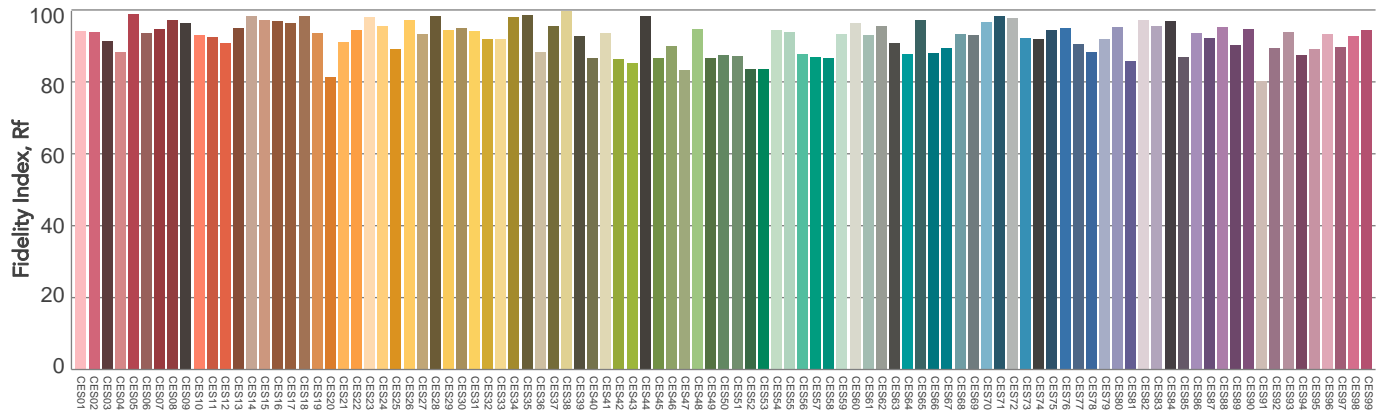
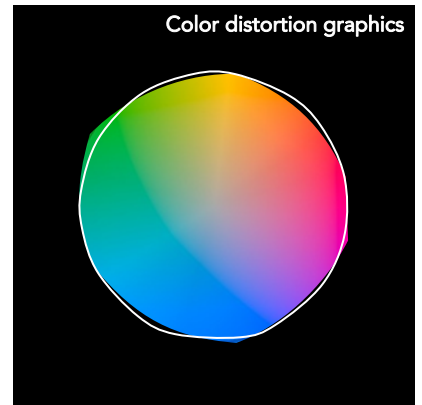
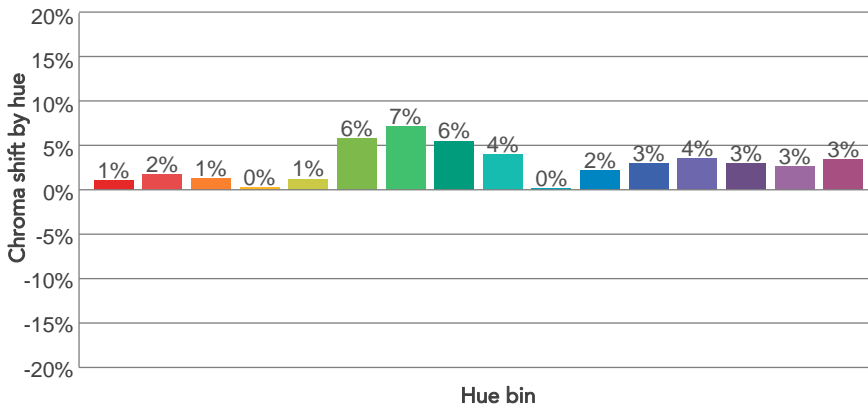
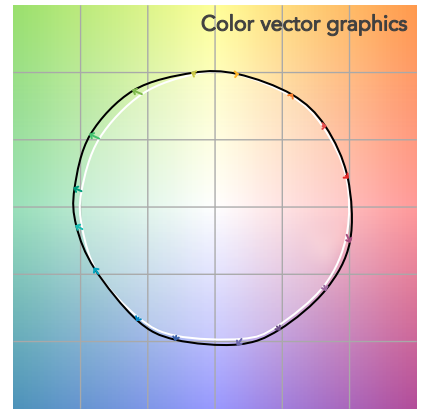
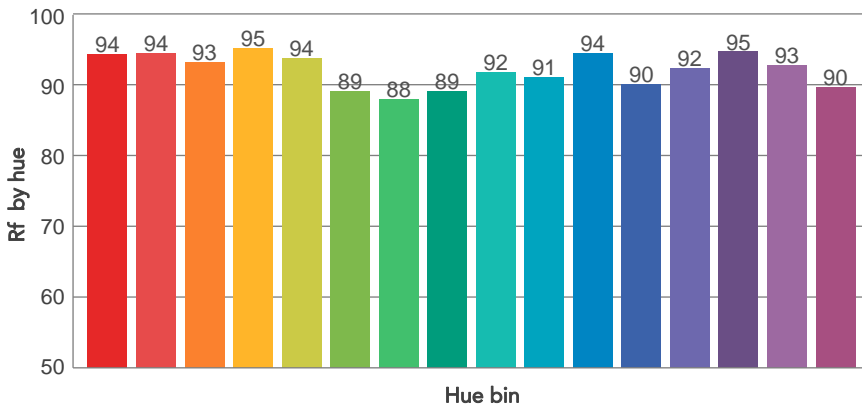
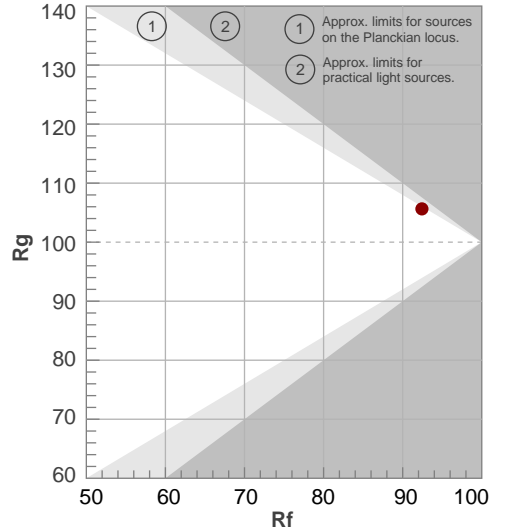
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3910 K	93,5	93,6	92,4	105,6	94,4	81	0,383	0,375	-0,0016

TM30 DETAILS

Rf 92,4
Fidelity index Rf

Rg 105,6
Gammut index

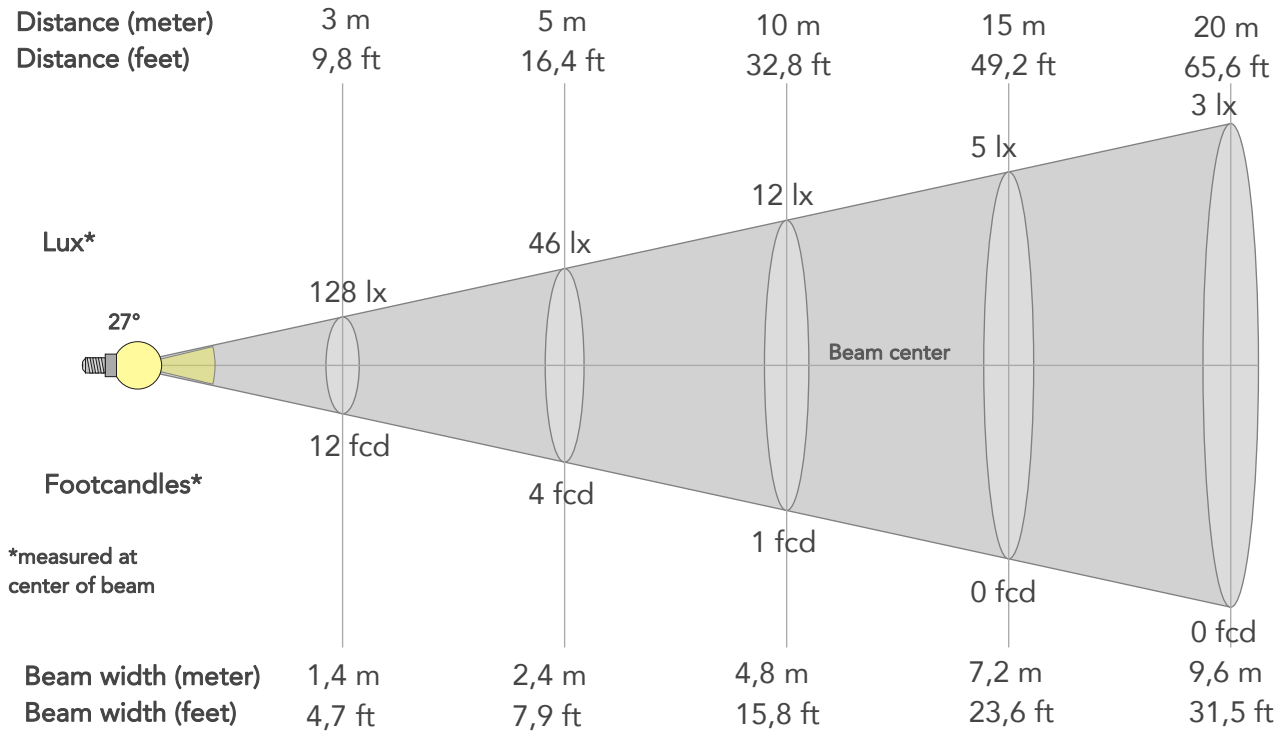
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-2%
2	94	2%	-1%
3	93	1%	0%
4	95	0%	-1%
5	94	1%	2%
6	89	6%	4%
7	88	7%	1%
8	89	6%	-1%
9	92	4%	-3%
10	91	0%	-5%
11	94	2%	0%
12	90	3%	0%
13	92	4%	-4%
14	95	3%	0%
15	93	3%	-2%
16	90	3%	-4%



BEAM DETAILS



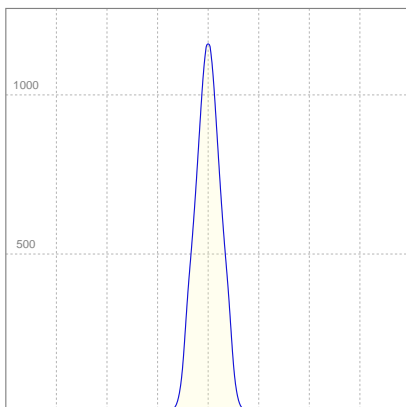
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27°	47°	56,3°	99,9%	99,5%



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	1156lx	289lx	128lx	72lx	46lx	21lx	12lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	107fcd	27fcd	12fcd	7fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,6m	12m	14,4m	19,2m	24m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,8ft	15,8ft	23,6ft	31,5ft	39,4ft	47,3ft	63ft	78,8ft

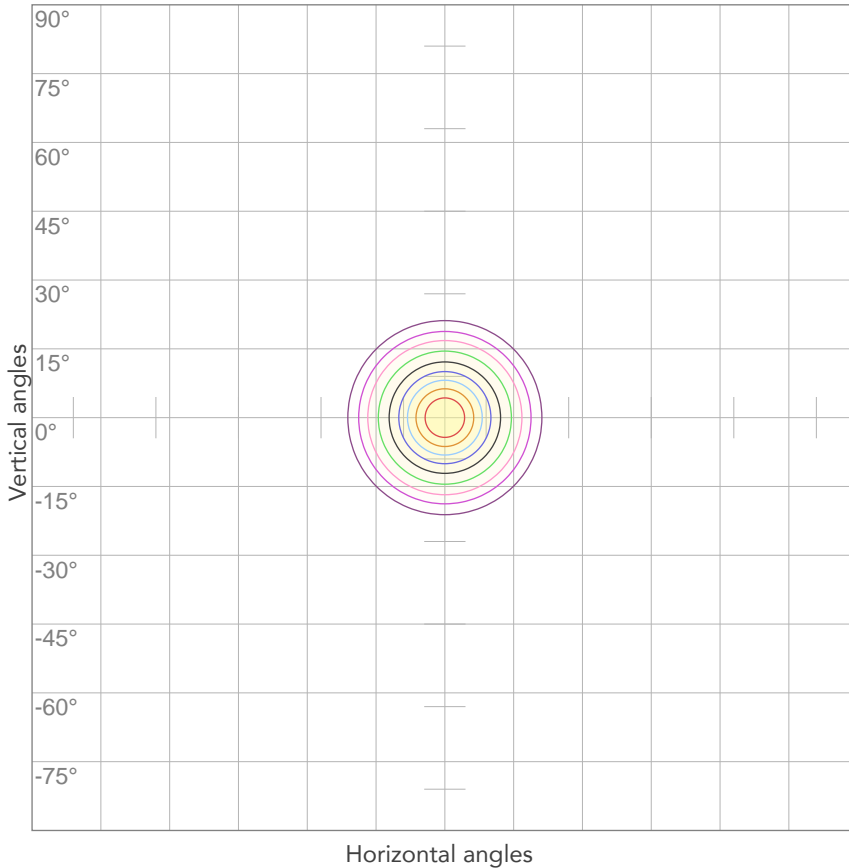
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,116A	23,7W	12lm/W

ISO CANDELA DIAGRAM



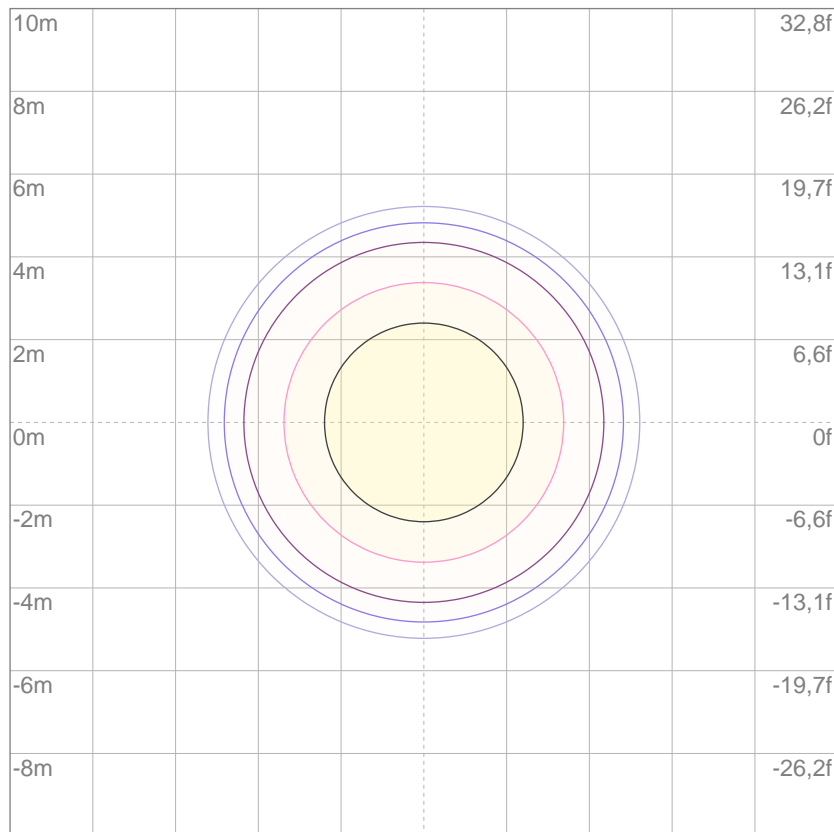
10%	116 cd
20%	231 cd
30%	347 cd
40%	462 cd
50%	578 cd
60%	694 cd
70%	809 cd
80%	925 cd

Conditions:

Number of c-planes: 2

Candela at center: 1156 cd

ISO LUX DIAGRAM



3%	0,347 lx
5%	0,578 lx
10%	1,16 lx
30%	3,47 lx
50%	5,78 lx

Conditions:

Number of c-planes: 2

Lux at center: 11,6 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:

248 lm

Peak candela output:

2403 cd

Light quality:

CRI: 93,5

Color temperature:

3889 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

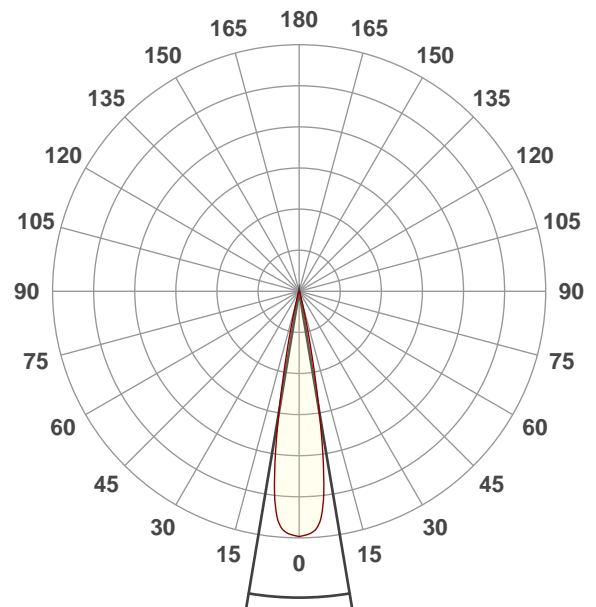
4000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:00:39

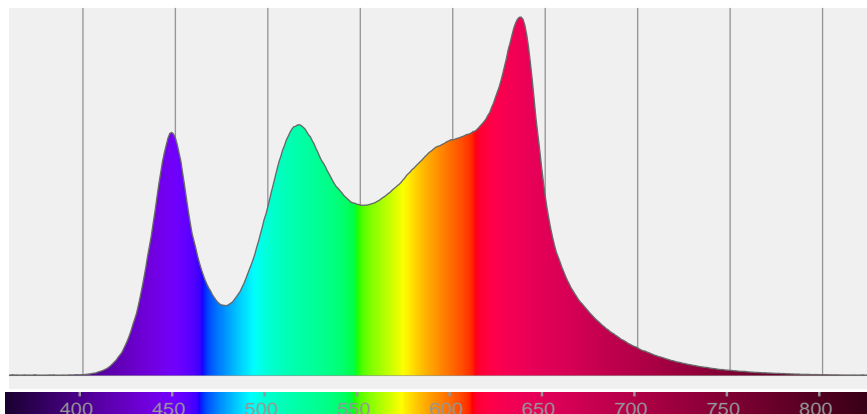


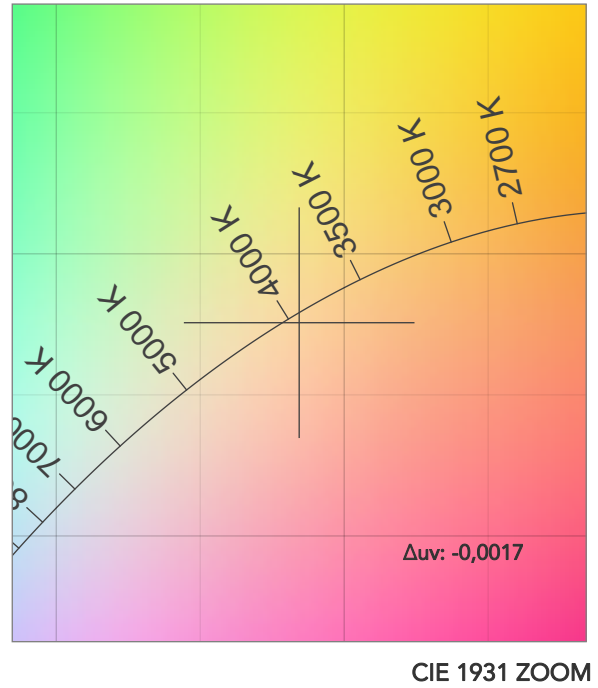
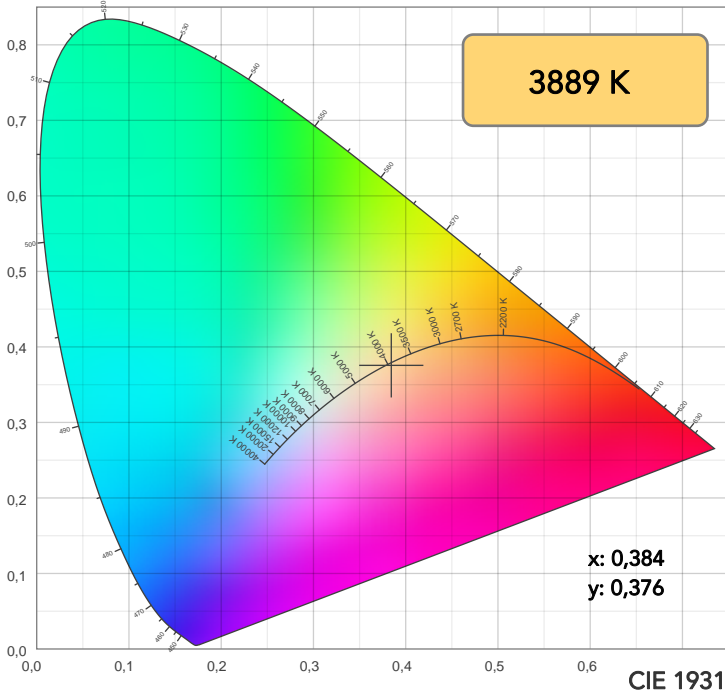
Beam angle 50%: 19°

Field angle 10%: 27,2°

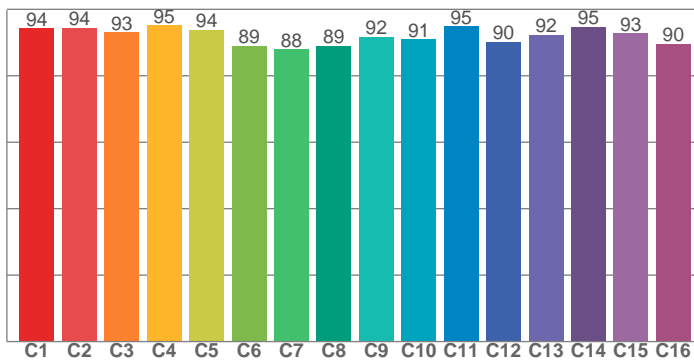
Cut off angle 2.5%: 34,6°

Spectra

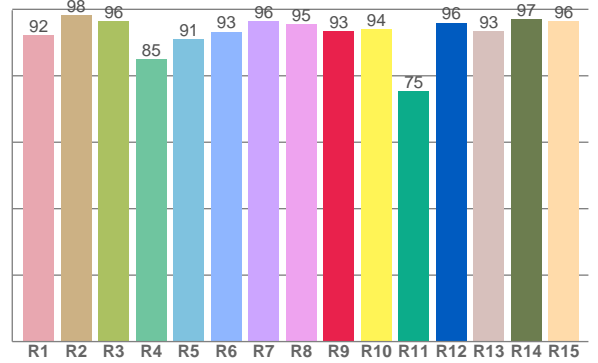




TM30: 92,4



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
92,2	98,3	96,4	84,9	91,1	93,2	96,4	95,4	93,4	94,1	75,3	96,0	93,4	97,0	96,3

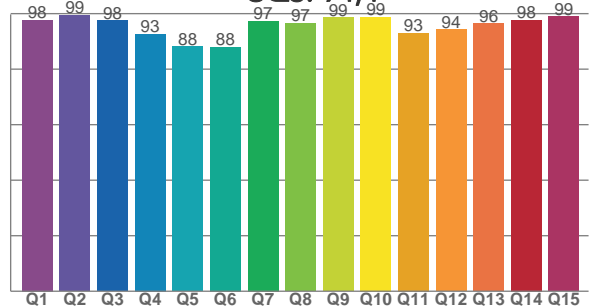
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	94,4	93,1	95,2	93,7	89,0	87,9	89,0	91,7	91,0	94,9	90,2	92,3	94,7	92,7	89,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,7	99,4	97,5	92,6	88,1	87,9	97,4	96,5	98,6	98,8	93,1	94,3	96,4	97,6	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	93,5	93,4	92,4	105,7	94,4	81	0,384	0,376	-0,0017

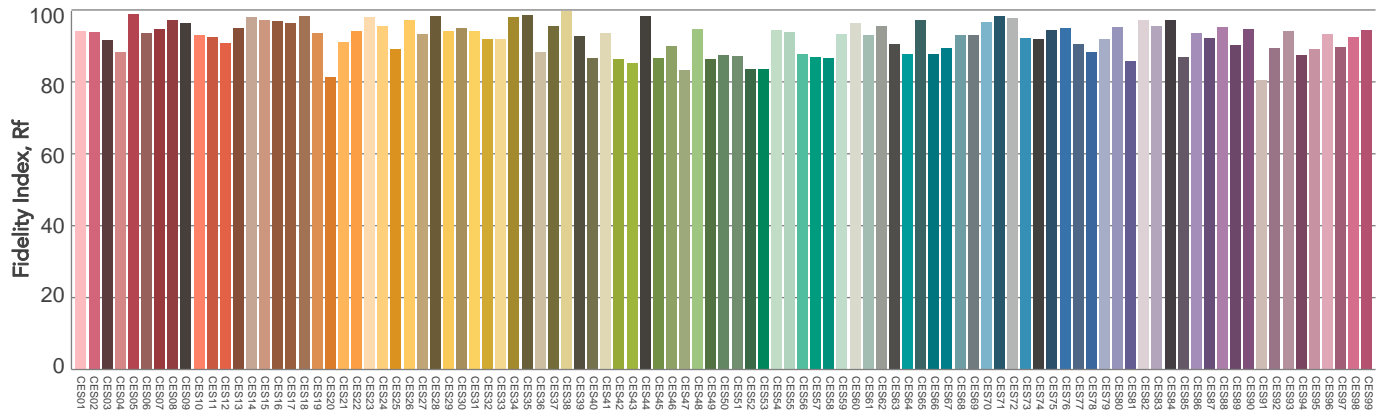
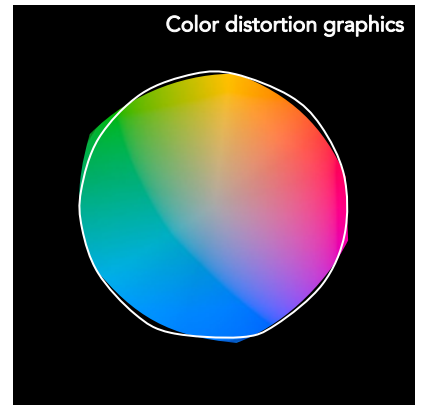
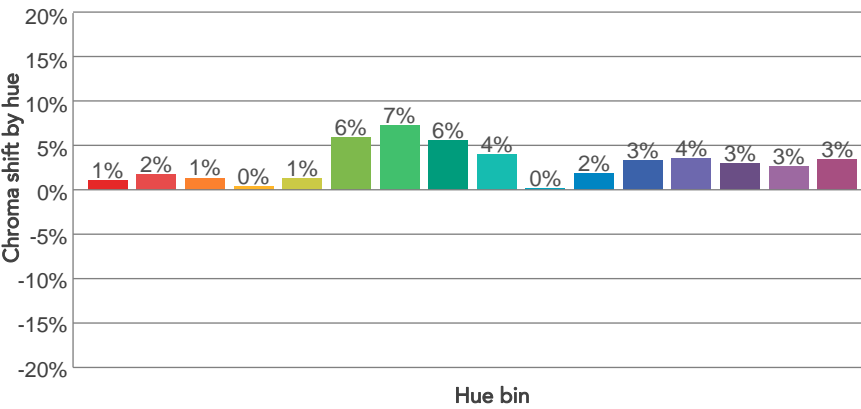
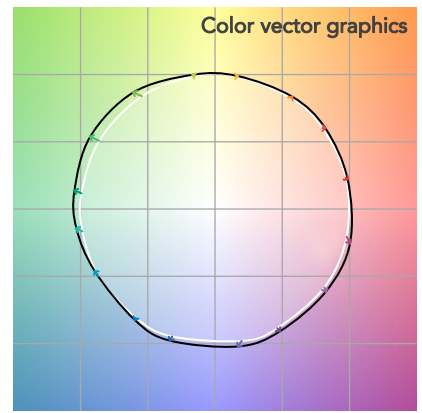
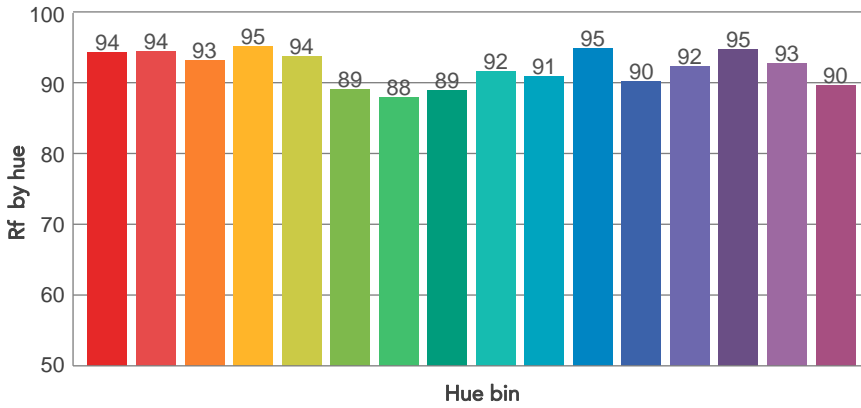
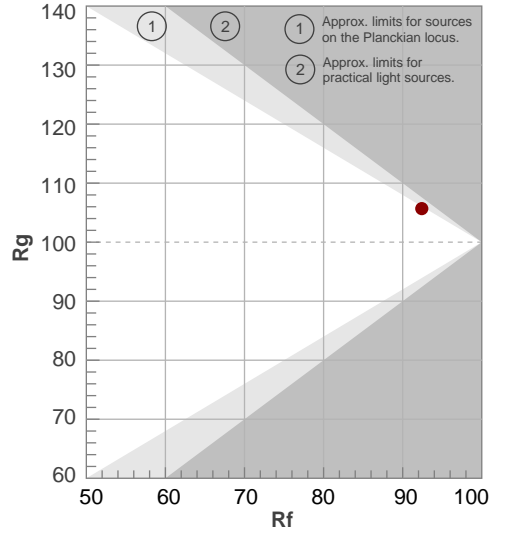
TM30 DETAILS



Rf 92,4
Fidelity index Rf

Rg 105,7
Gammut index

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

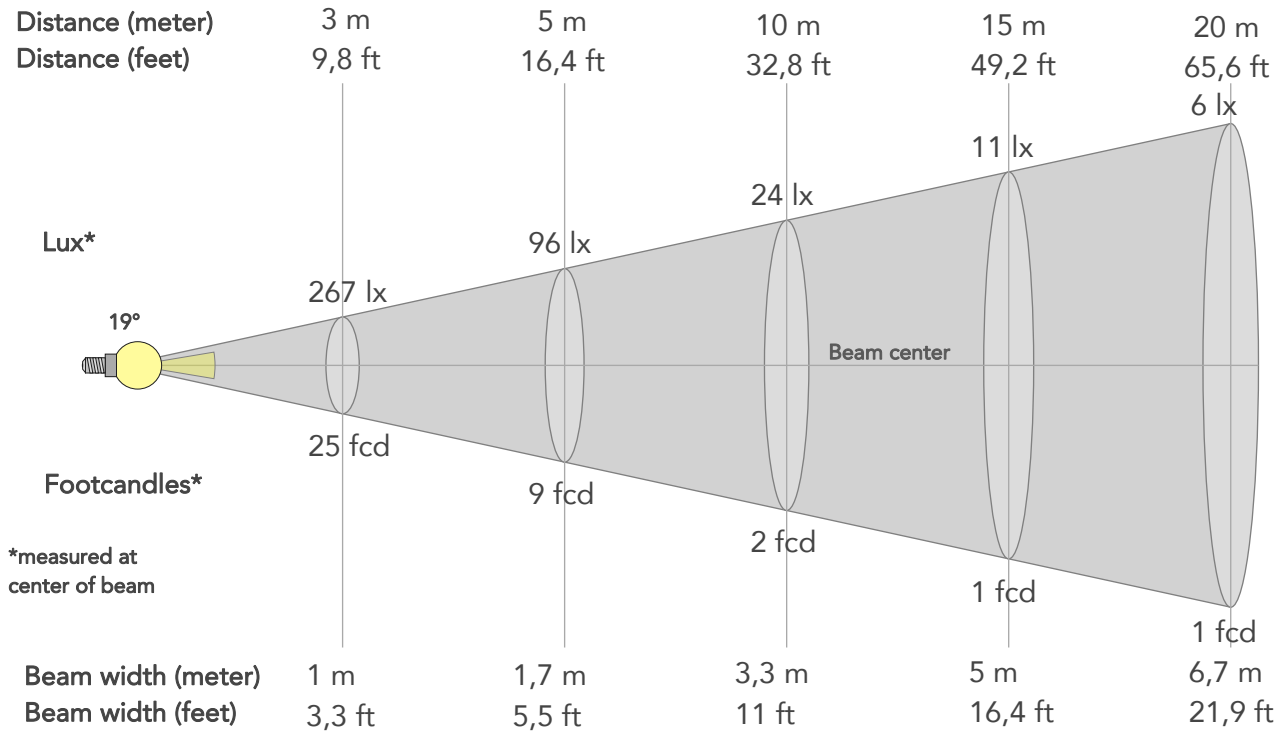


Color Evaluation Sample

BEAM DETAILS



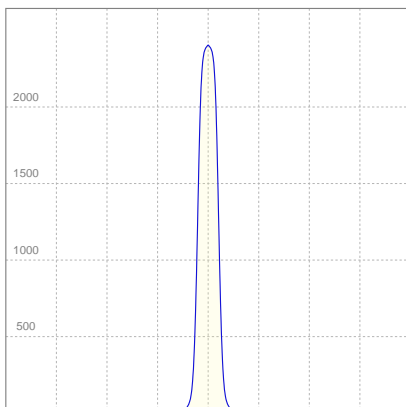
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19°	27,2°	34,6°	100,0%	99,9%



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	2403lx	601lx	267lx	150lx	96lx	43lx	24lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	223fcd	56fcd	25fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,7m	8,4m	10m	13,4m	16,7m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,2ft	11ft	16,4ft	21,9ft	27,4ft	32,9ft	43,9ft	54,8ft

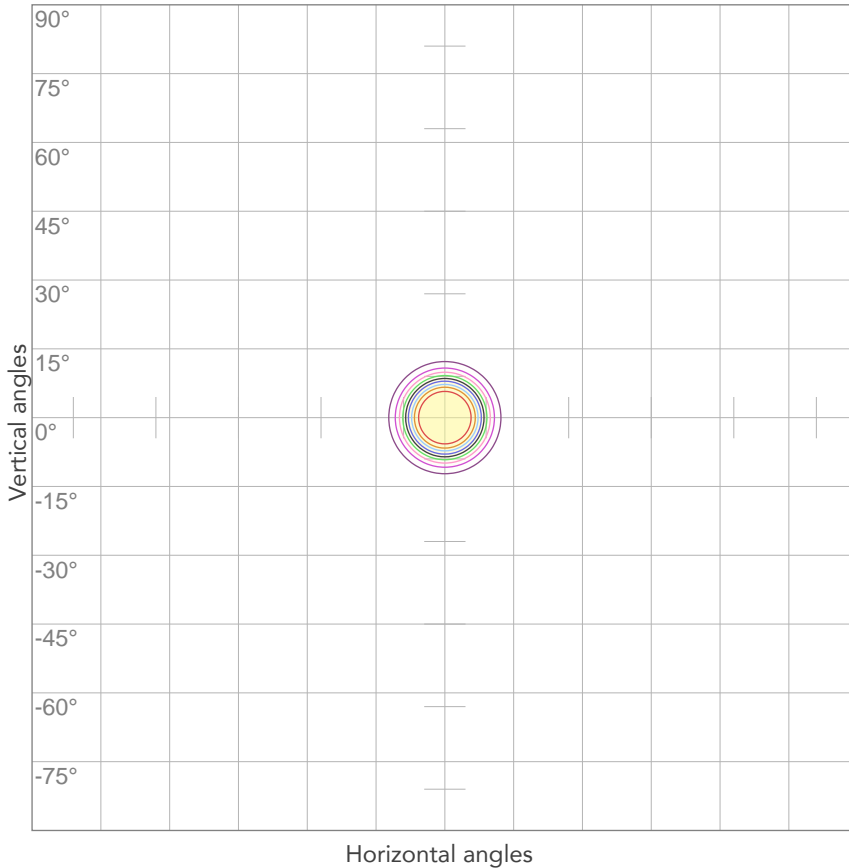
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,116A	23,7W	10lm/W

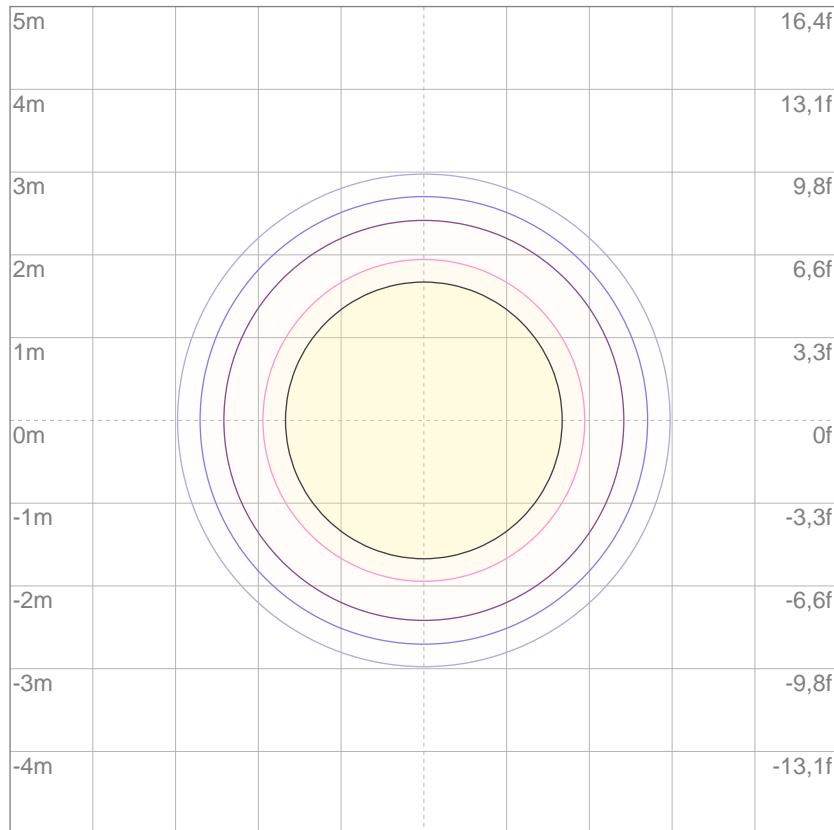
ISO CANDELA DIAGRAM



10%	240 cd
20%	481 cd
30%	721 cd
40%	961 cd
50%	1202 cd
60%	1442 cd
70%	1682 cd
80%	1923 cd

Conditions:
 Number of c-planes: 2
 Candela at center: 2403 cd

ISO LUX DIAGRAM



3%	0,721 lx
5%	1,20 lx
10%	2,40 lx
30%	7,21 lx
50%	12,0 lx

Conditions:
 Number of c-planes: 2
 Lux at center: 24,0 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:

302 lm

Peak candela output:

1264 cd

Light quality:

CRI: 91,6

Color temperature:

5561 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

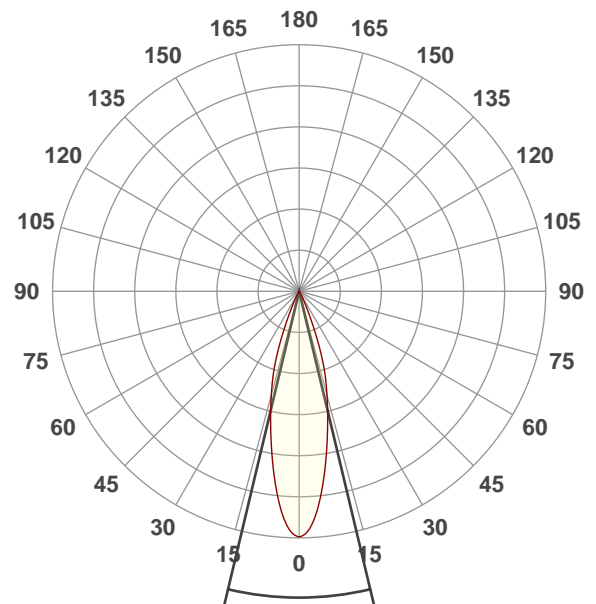
5600K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:16:39

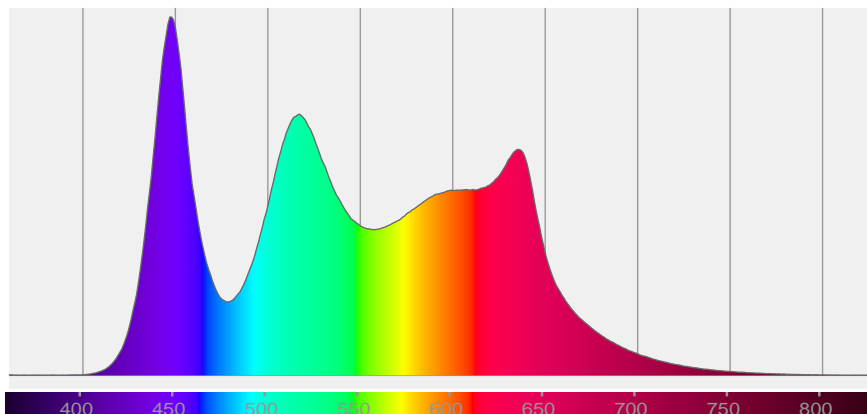


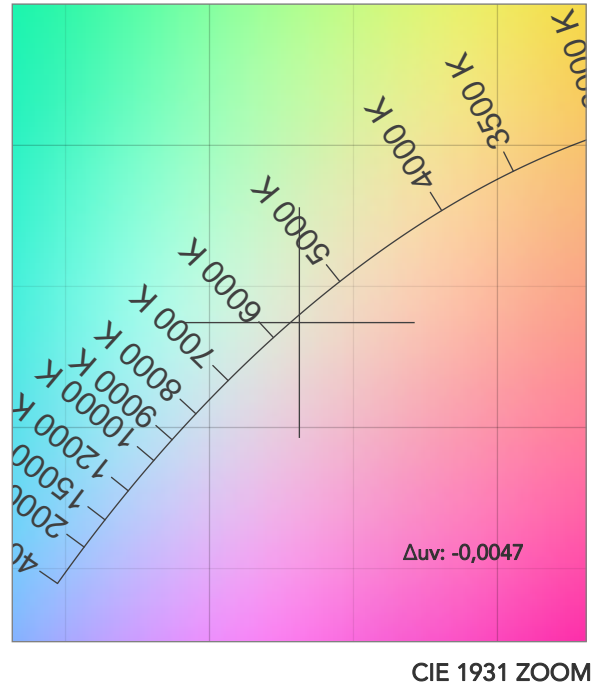
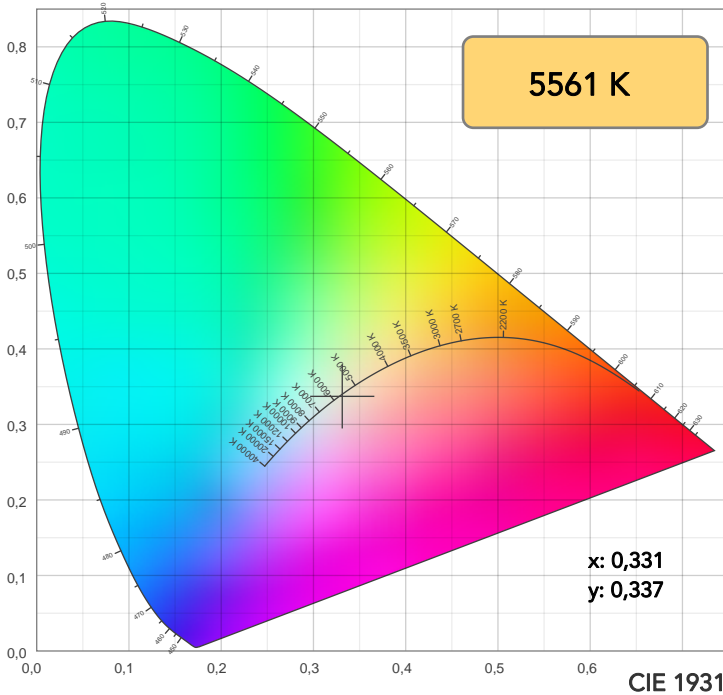
Beam angle 50%: 26,8°

Field angle 10%: 47,1°

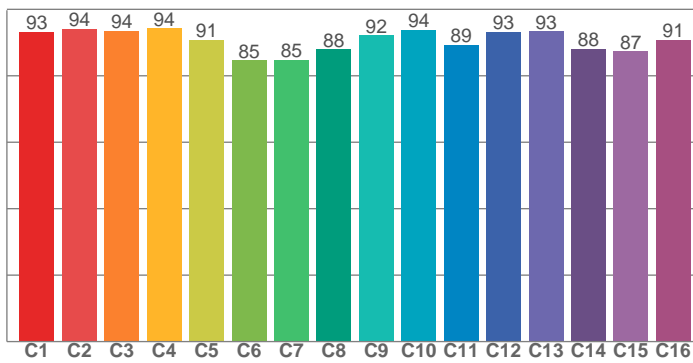
Cut off angle 2.5%: 56,4°

Spectra

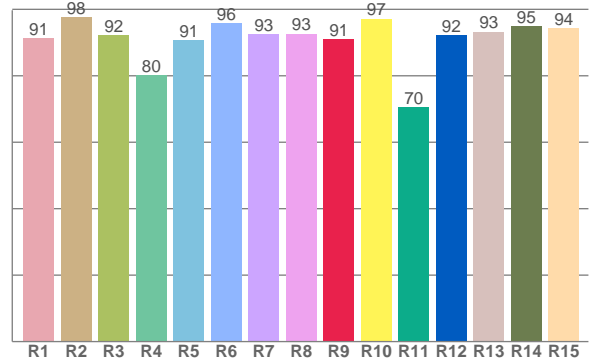




TM30: 90,8



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
91,3	97,7	92,2	80,1	90,8	95,7	92,5	92,7	90,9	97,1	70,4	92,2	93,2	95,0	94,3

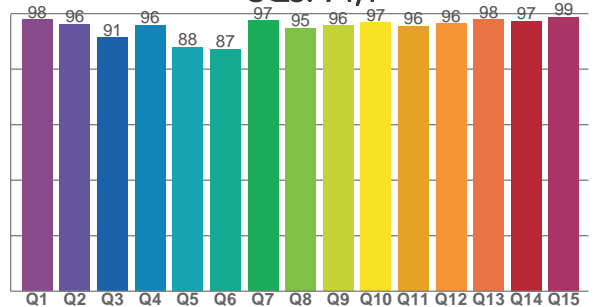
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,3	94,1	93,6	94,2	90,8	84,7	84,8	88,0	92,2	93,9	89,3	93,1	93,4	88,1	87,3	90,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,8	96,3	91,3	95,9	88,0	87,1	97,5	94,8	95,7	96,8	95,5	96,4	97,8	97,4	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
5561 K	91,6	90,9	90,8	107,8	94,1	82	0,331	0,337	-0,0047

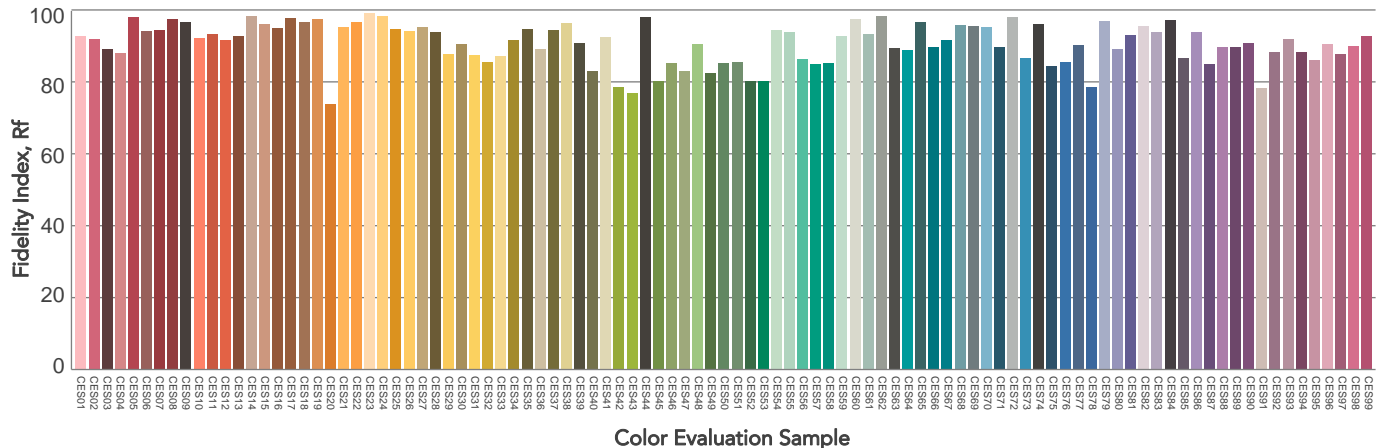
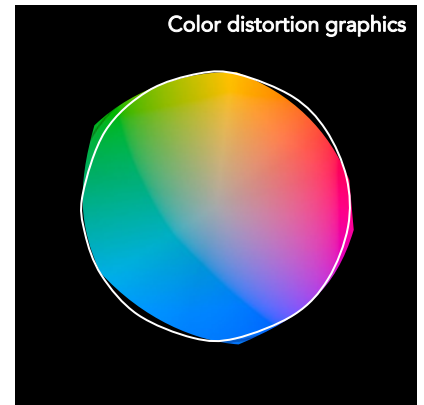
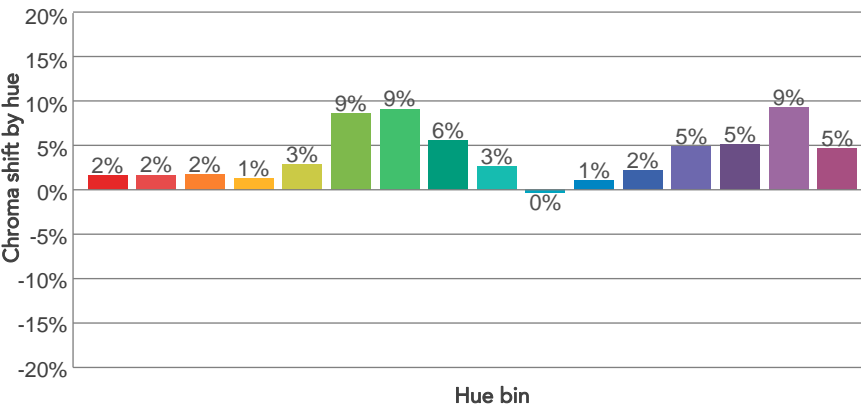
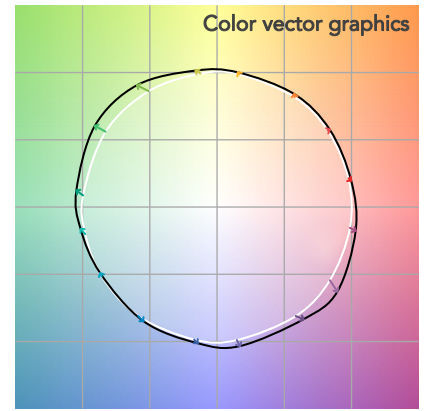
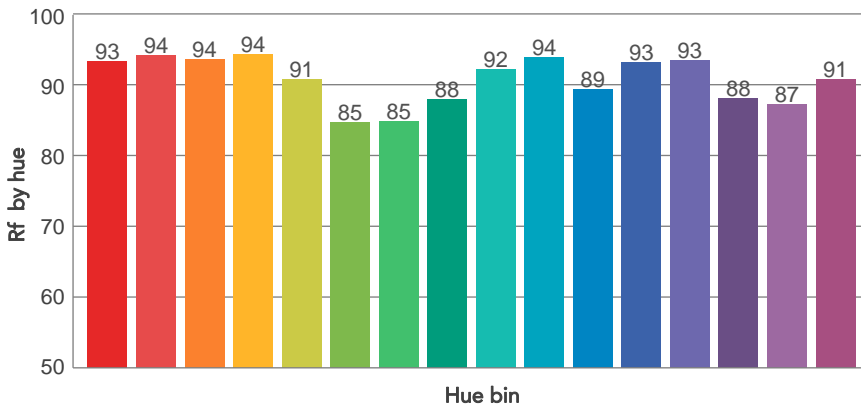
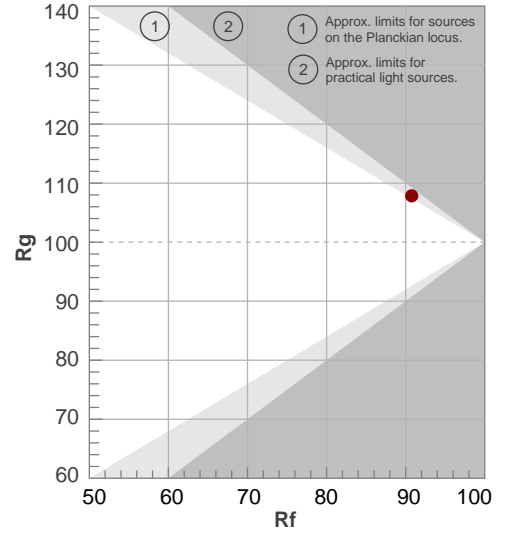
TM30 DETAILS



Rf 90,8
Fidelity index Rf

Rg 107,8
Gammut index

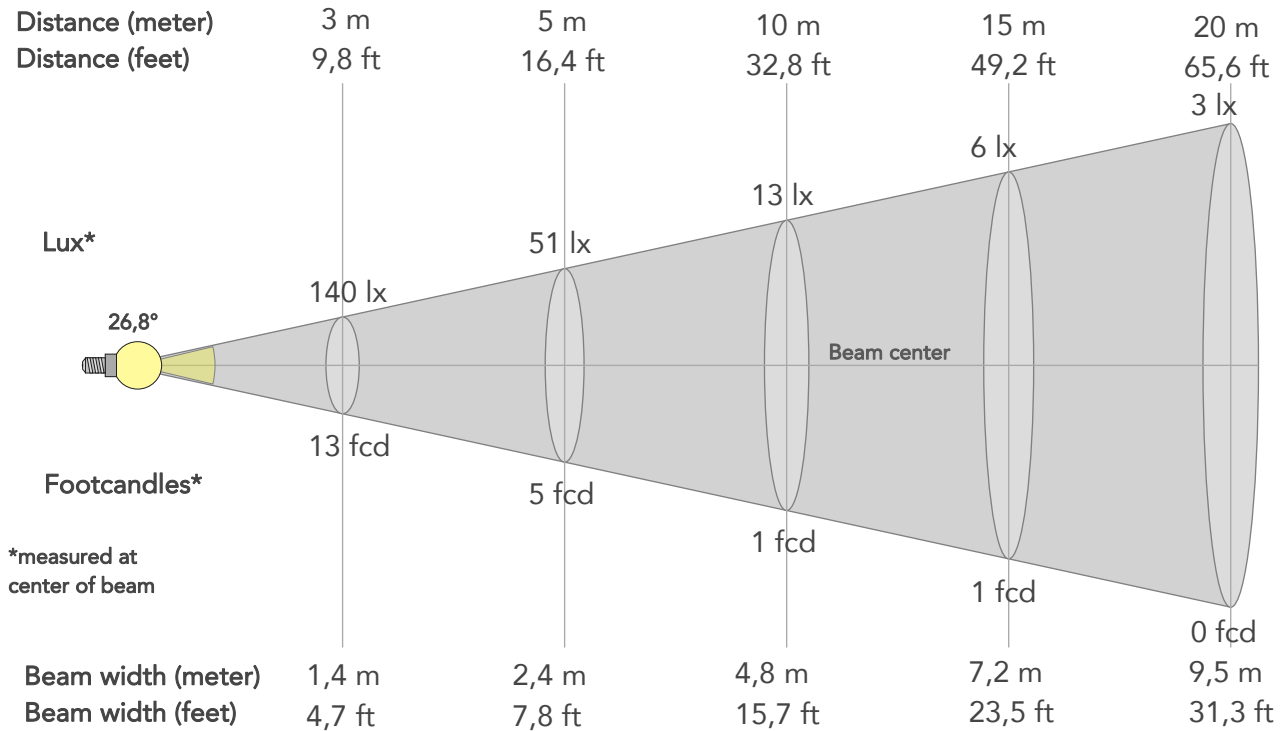
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	94	2%	0%
3	94	2%	2%
4	94	1%	1%
5	91	3%	3%
6	85	9%	5%
7	85	9%	1%
8	88	6%	-3%
9	92	3%	-4%
10	94	0%	-3%
11	89	1%	5%
12	93	2%	3%
13	93	5%	1%
14	88	5%	4%
15	87	9%	-4%
16	91	5%	-1%



BEAM DETAILS



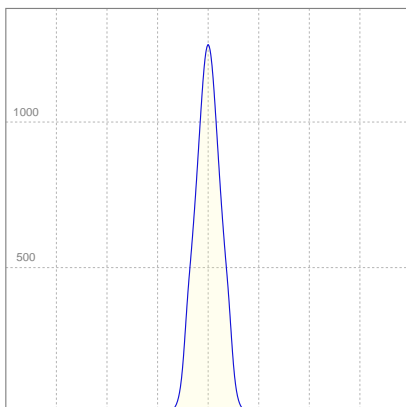
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,8°	47,1°	56,4°	99,9%	99,4%



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	1264lx	316lx	140lx	79lx	51lx	22lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	117fcd	29fcd	13fcd	7fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,5m	11,9m	14,3m	19,1m	23,9m
Beam wid.	1,6ft	3,1ft	4,7ft	6,3ft	7,8ft	11,7ft	15,7ft	23,5ft	31,3ft	39,1ft	47ft	62,6ft	78,3ft

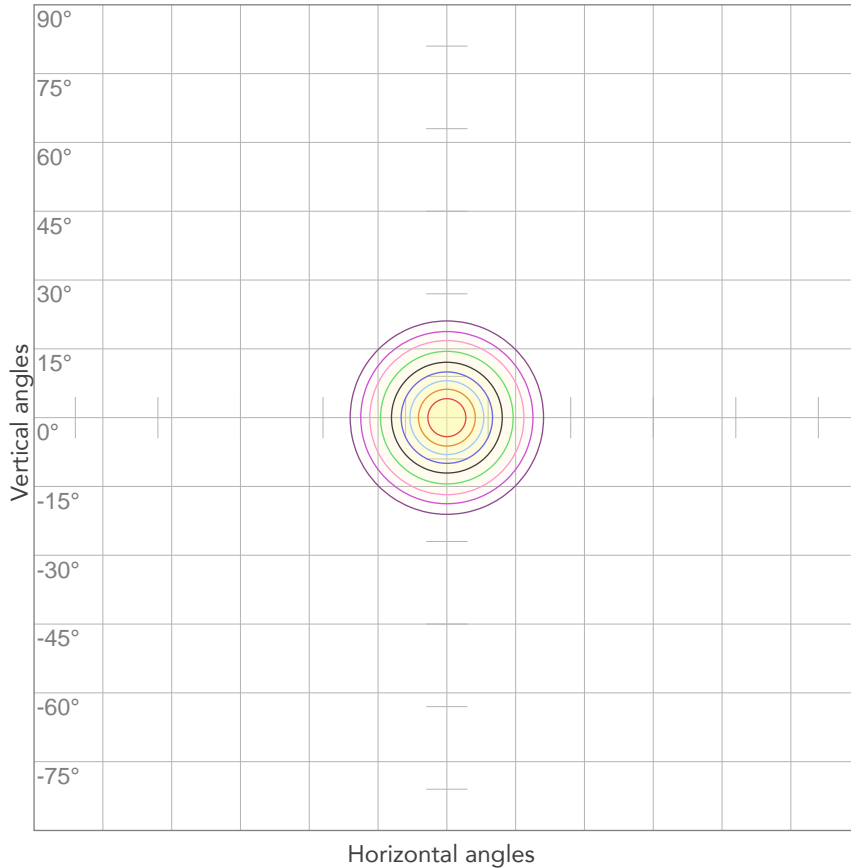
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,126A	26,0W	12lm/W

ISO CANDELA DIAGRAM



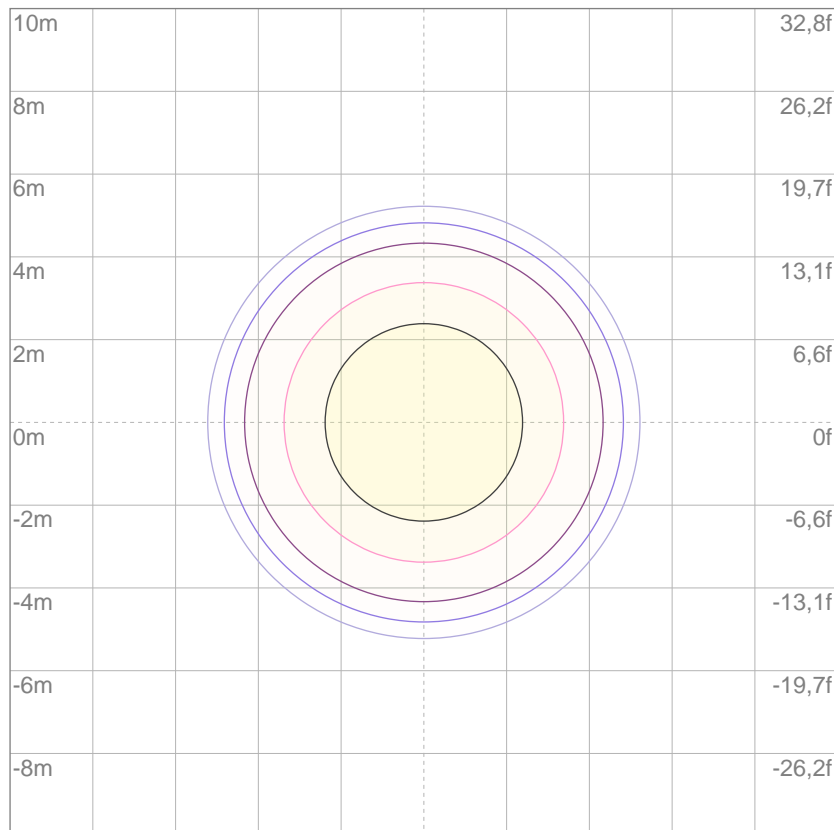
10%	126 cd
20%	253 cd
30%	379 cd
40%	506 cd
50%	632 cd
60%	758 cd
70%	885 cd
80%	1011 cd

Conditions:

Number of c-planes: 2

Candela at center: 1264 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,379 lx
5%	0,632 lx
10%	1,26 lx
30%	3,79 lx
50%	6,32 lx

Conditions:

Number of c-planes: 2

Lux at center: 12,6 lx

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



Total lumen output:

271 lm

Peak candela output:

2603 cd

Light quality:

CRI: 91,6

Color temperature:

5523 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

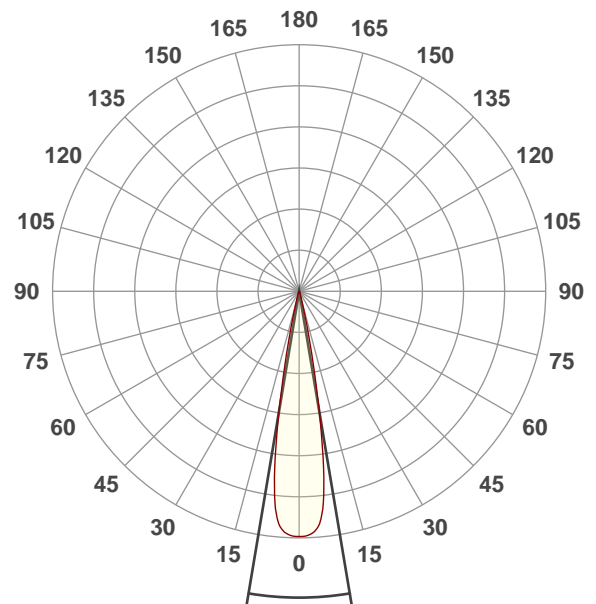
5600K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:02:40

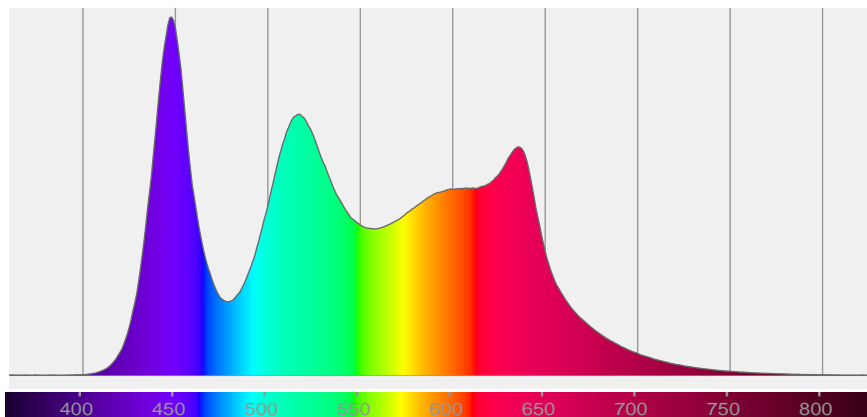


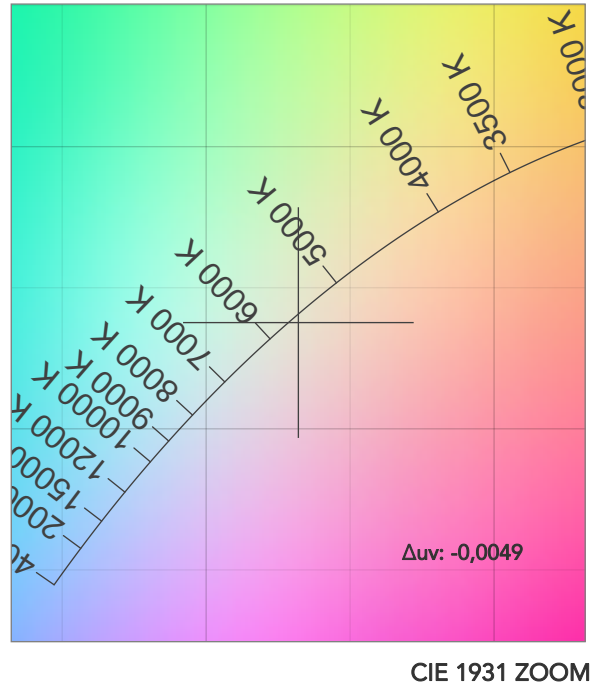
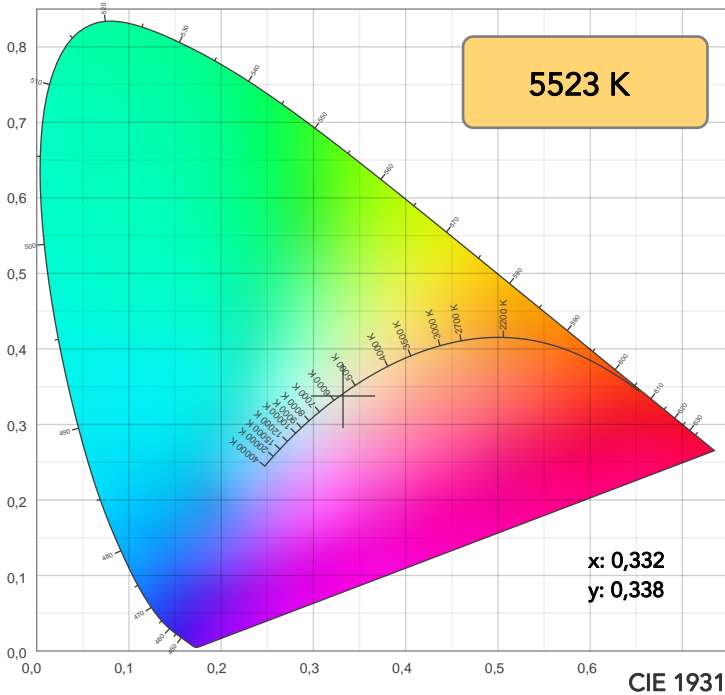
Beam angle 50%: 19°

Field angle 10%: 27,3°

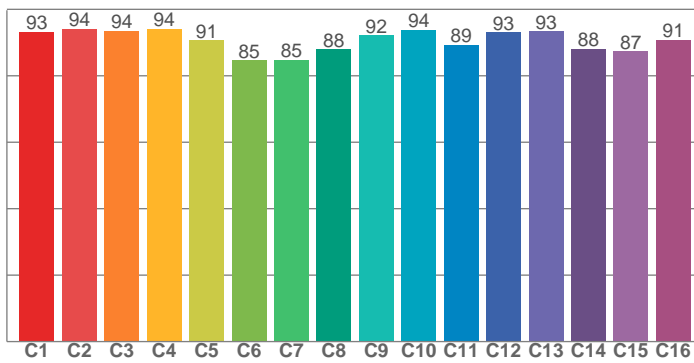
Cut off angle 2.5%: 34,6°

Spectra

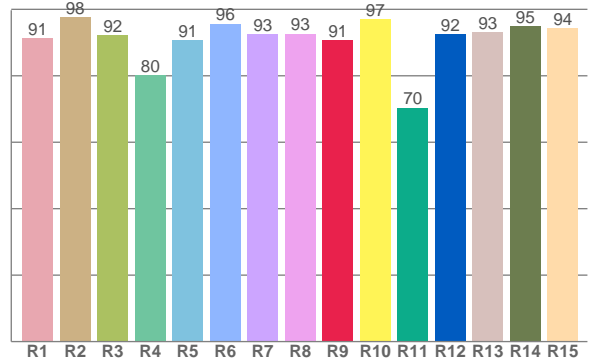




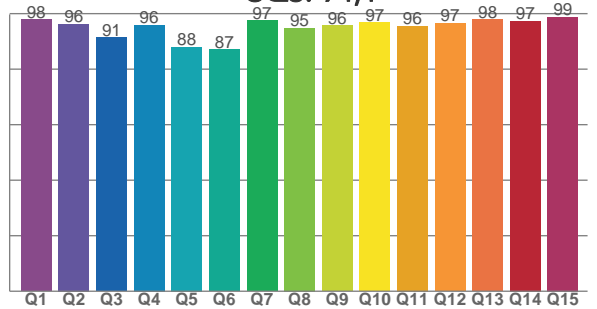
TM30: 90,7



CRI: 91,6 (R1-R8)



CQS: 94,1



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	97,7	92,2	80,1	90,7	95,7	92,5	92,6	90,7	97,1	70,4	92,4	93,1	95,0	94,2

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,3	94,1	93,6	94,2	90,7	84,6	84,7	87,9	92,2	93,8	89,4	93,1	93,4	88,1	87,3	90,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,8	96,3	91,3	95,9	87,9	87,1	97,5	94,9	95,6	96,7	95,6	96,5	97,9	97,4	98,8

COLOR PARAMETERS

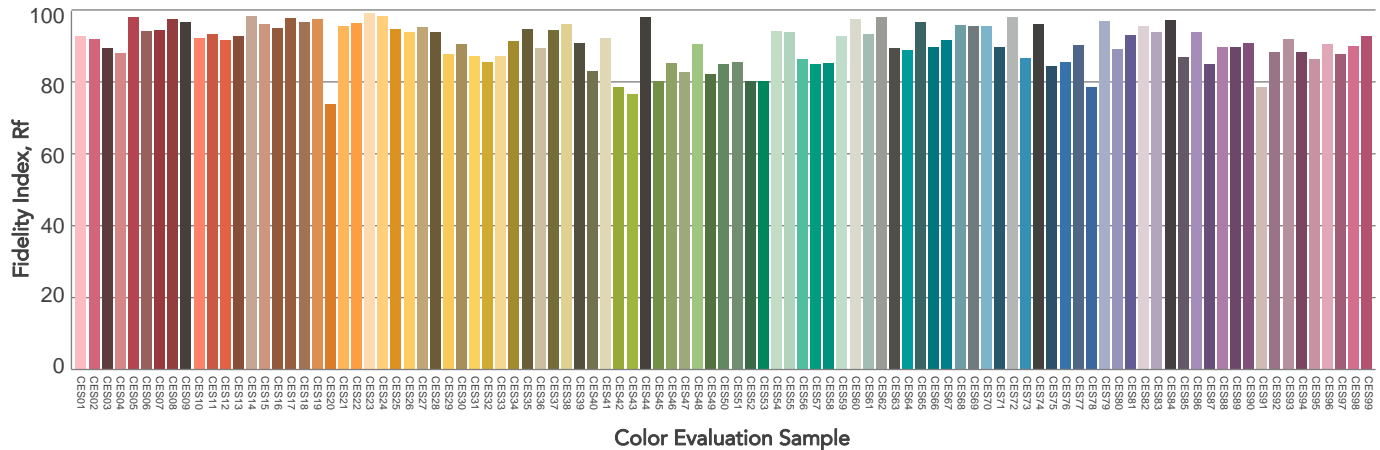
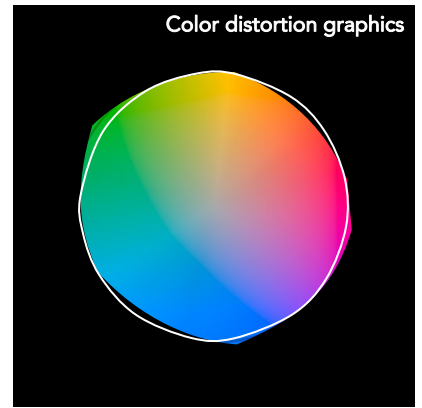
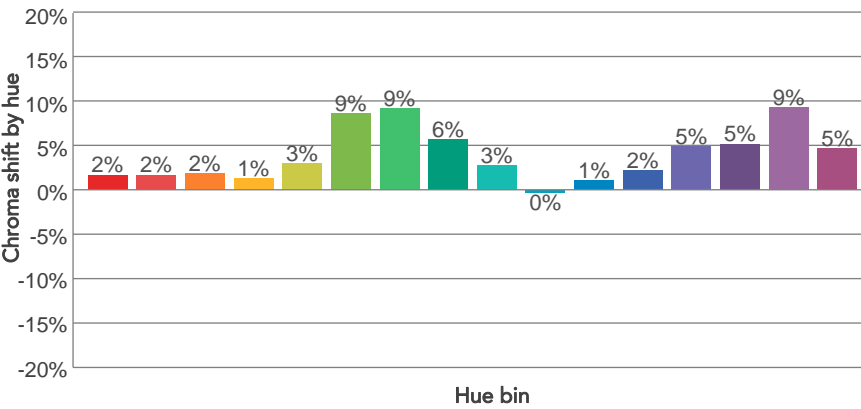
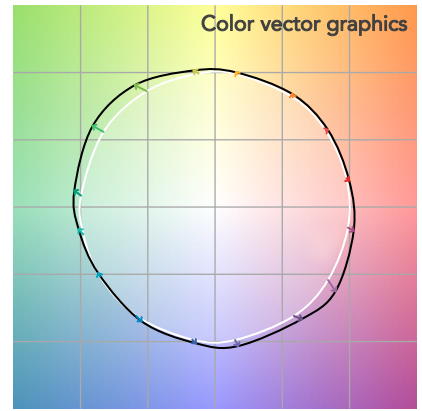
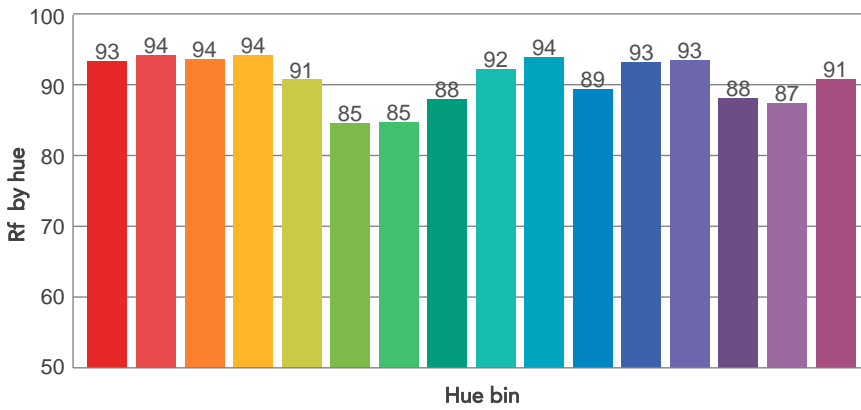
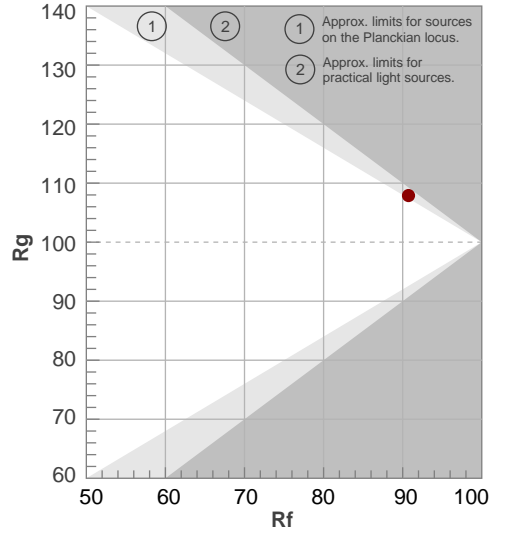
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5523 K	91,6	90,7	90,7	107,9	94,1	82	0,332	0,338	-0,0049

TM30 DETAILS

Rf 90,7
Fidelity index Rf

Rg 107,9
Gammut index

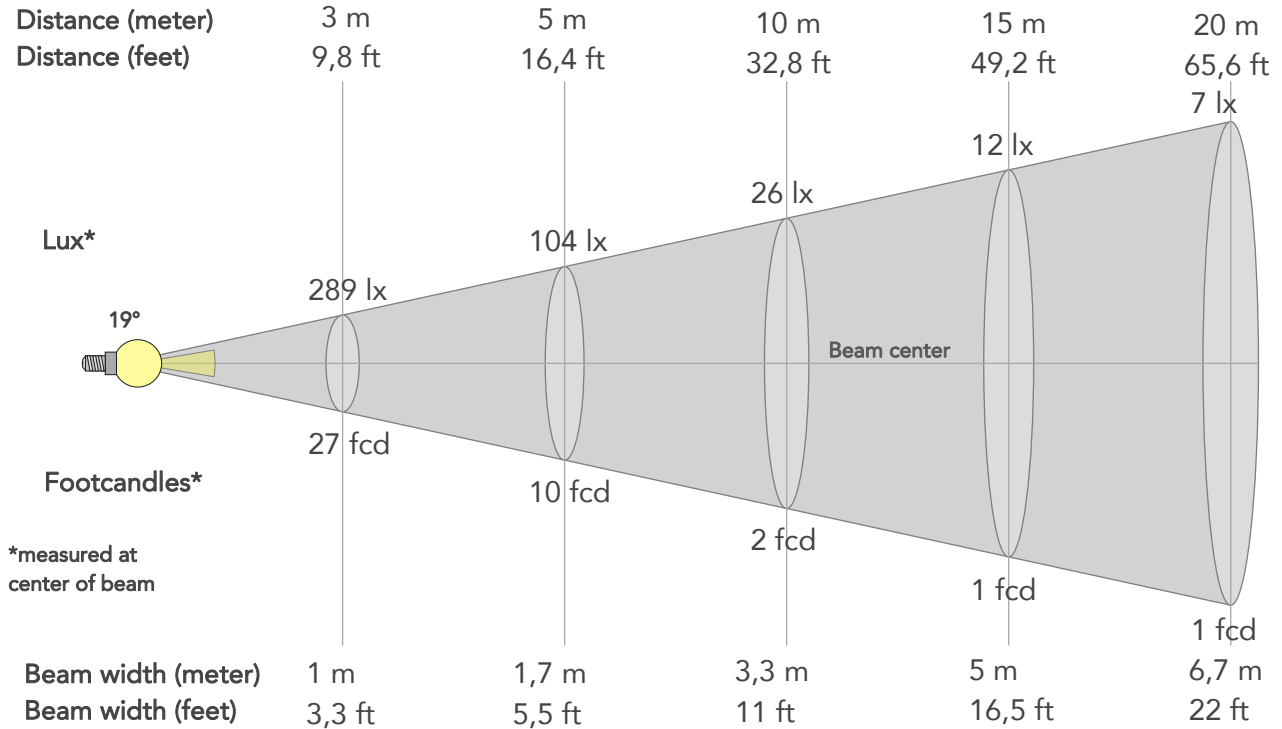
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	94	2%	0%
3	94	2%	2%
4	94	1%	2%
5	91	3%	3%
6	85	9%	5%
7	85	9%	1%
8	88	6%	-3%
9	92	3%	-5%
10	94	0%	-3%
11	89	1%	5%
12	93	2%	3%
13	93	5%	1%
14	88	5%	4%
15	87	9%	-4%
16	91	5%	-1%



BEAM DETAILS



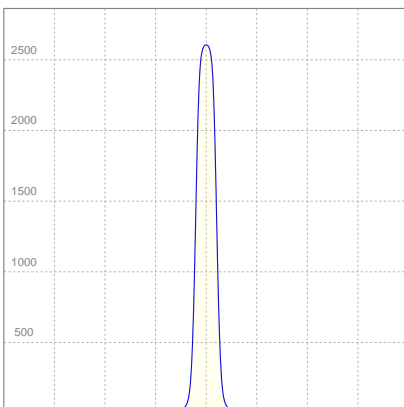
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19°	27,3°	34,6°	100,0%	99,8%



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	2603lx	651lx	289lx	163lx	104lx	46lx	26lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	242fcd	60fcd	27fcd	15fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,7m	8,4m	10m	13,4m	16,7m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,2ft	11ft	16,5ft	22ft	27,5ft	33ft	44ft	54,9ft

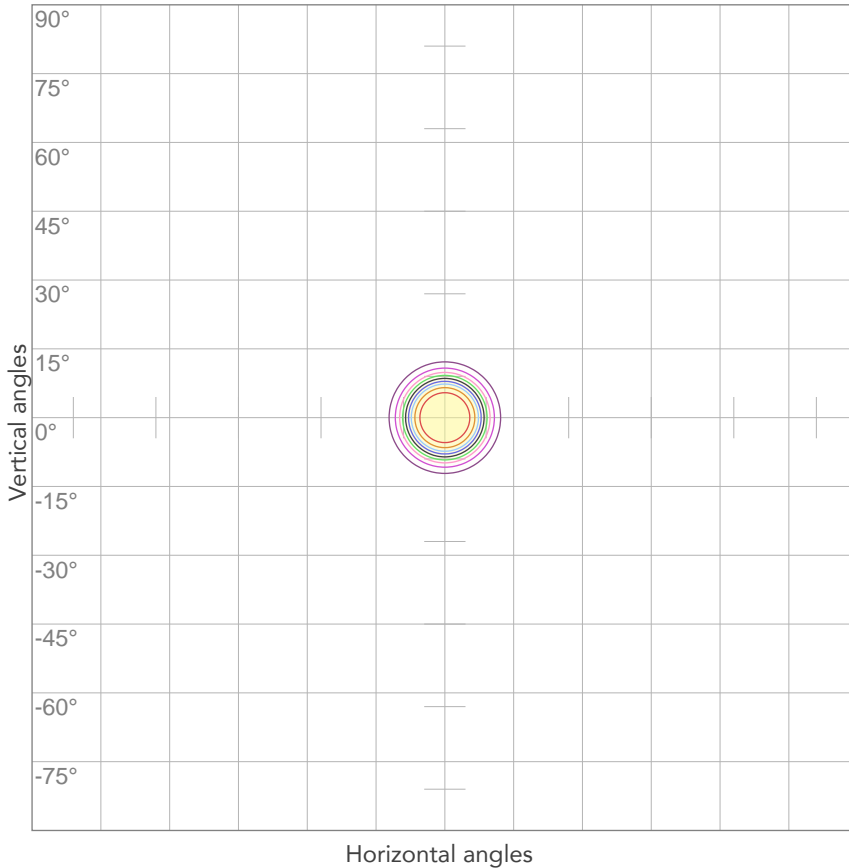
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



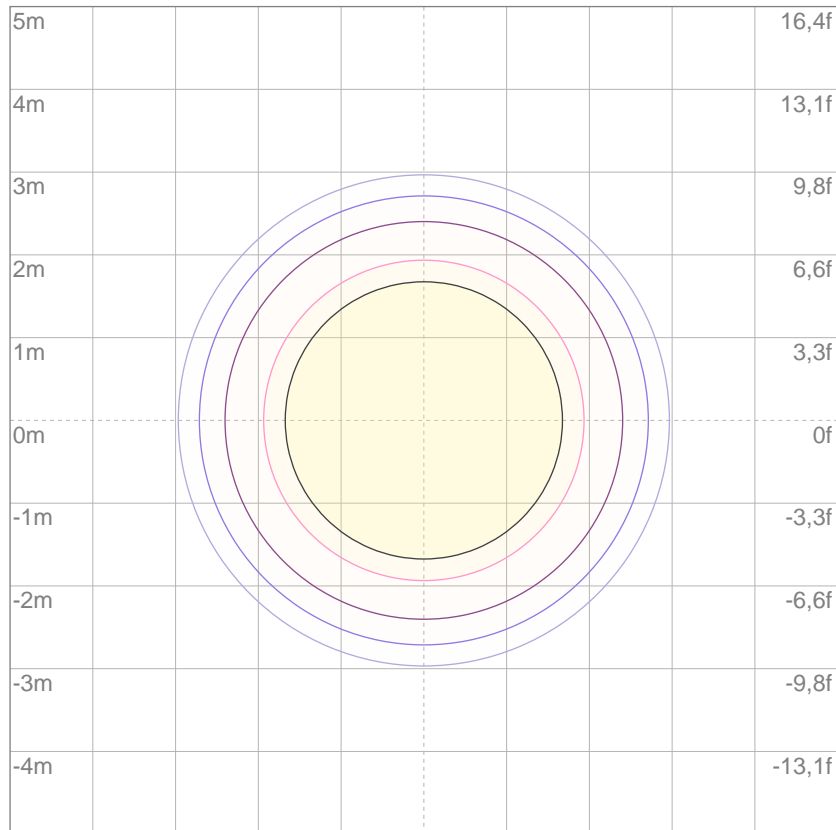
10%	260 cd
20%	521 cd
30%	781 cd
40%	1041 cd
50%	1302 cd
60%	1562 cd
70%	1822 cd
80%	2082 cd

Conditions:

Number of c-planes: 2

Candela at center: 2603 cd

ISO LUX DIAGRAM



3%	0,781 lx
5%	1,30 lx
10%	2,60 lx
30%	7,81 lx
50%	13,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 26,0 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:

306 lm

Peak candela output:

1282 cd

Light quality:

CRI: 91,3

Color temperature:

6009 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

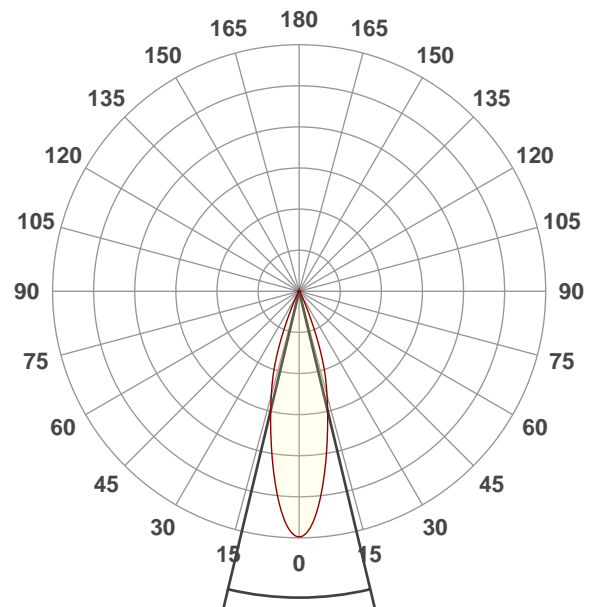
6000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:19:15

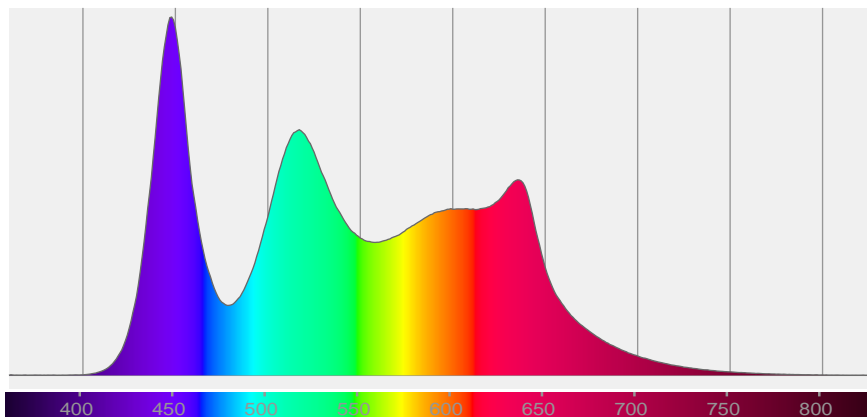


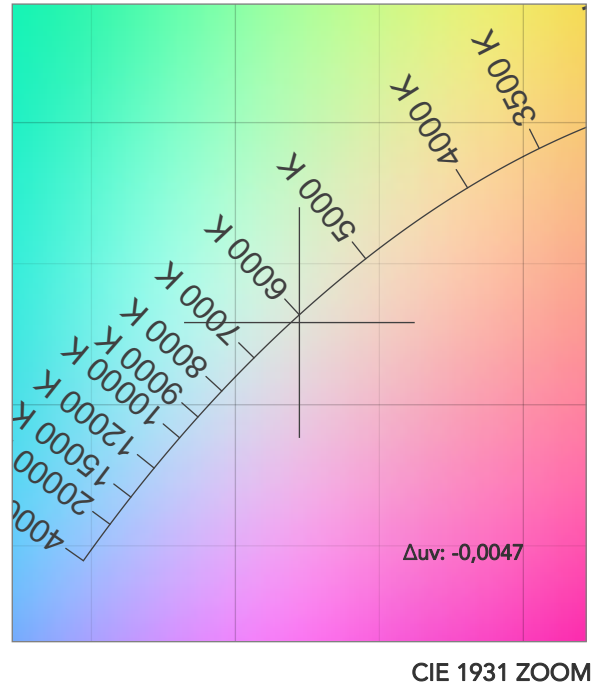
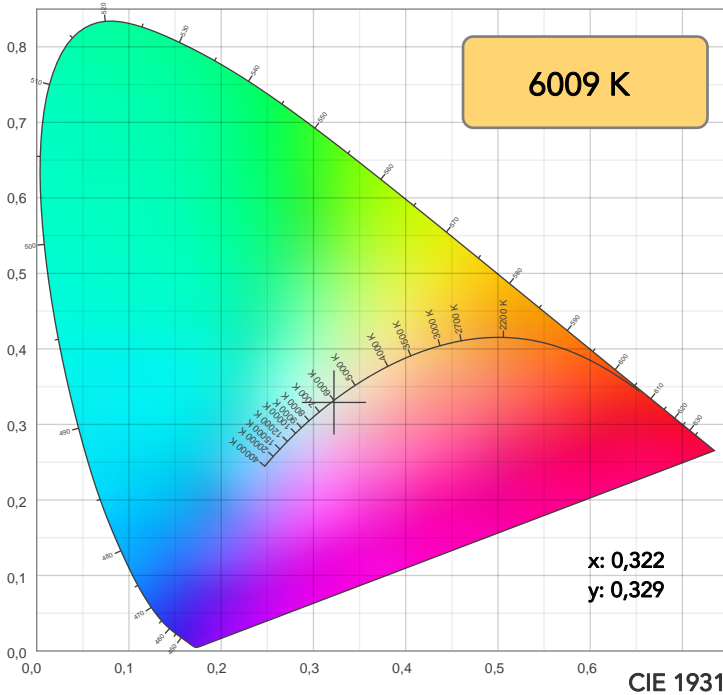
Beam angle 50%: 26,9°

Field angle 10%: 47°

Cut off angle 2.5%: 56,2°

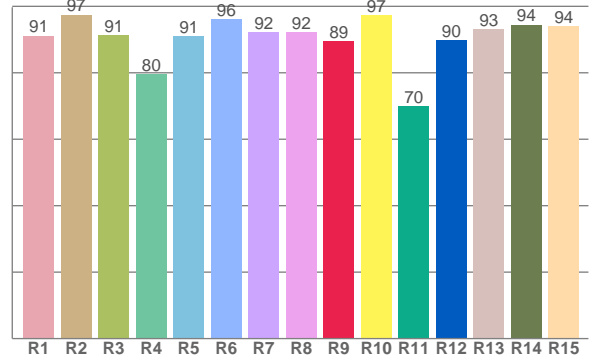
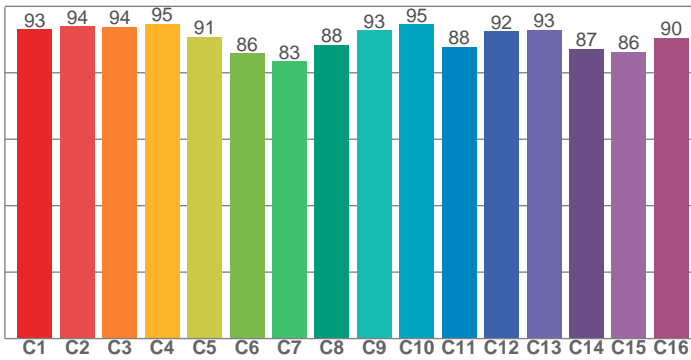
Spectra





TM30: 90,6

CRI: 91,3 (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
91,1	97,4	91,2	79,6	91,0	96,1	92,1	92,1	89,5	97,3	69,9	89,8	93,2	94,4	94,0

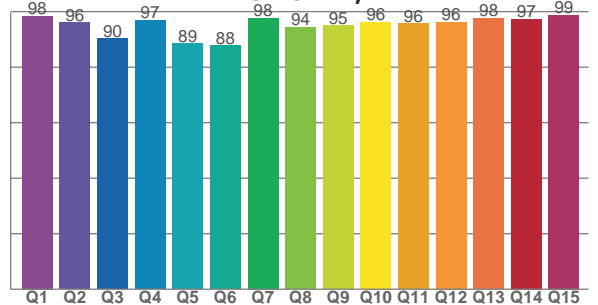
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,1	94,0	93,8	94,7	90,8	85,9	83,4	88,4	92,7	94,6	87,8	92,4	92,9	87,3	86,2	90,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,4	96,0	90,3	96,9	88,6	87,7	97,7	94,4	95,0	96,3	95,7	96,3	97,6	97,4	98,8

CQS: 94,1



COLOR PARAMETERS

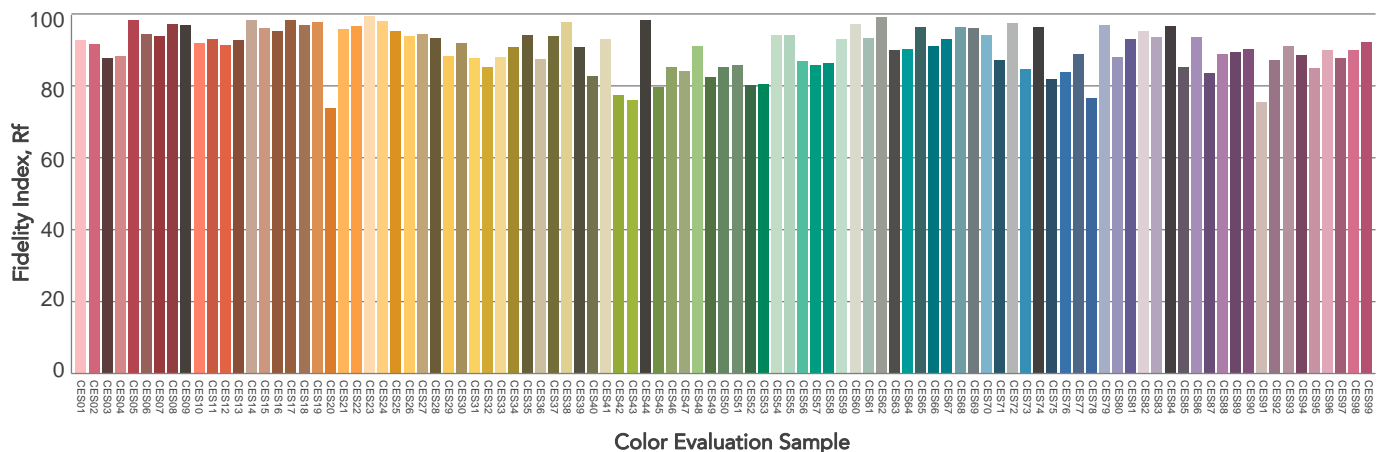
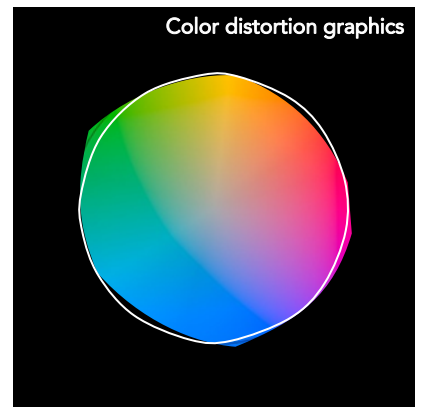
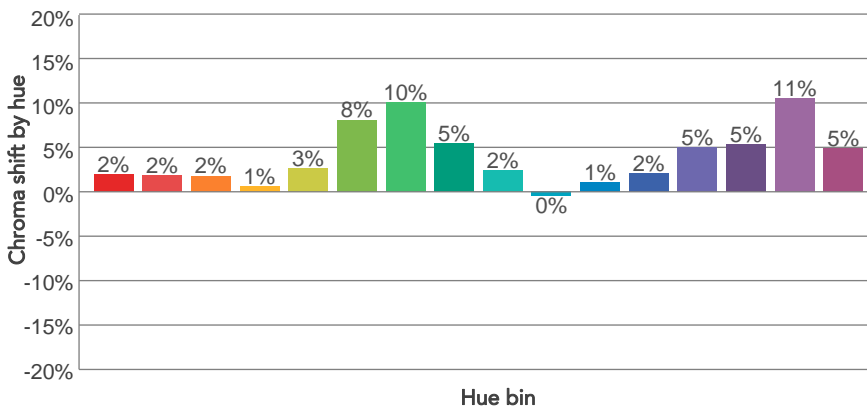
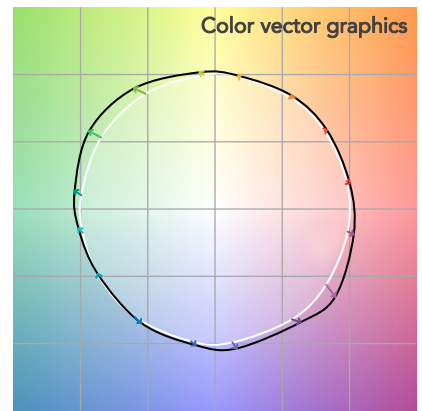
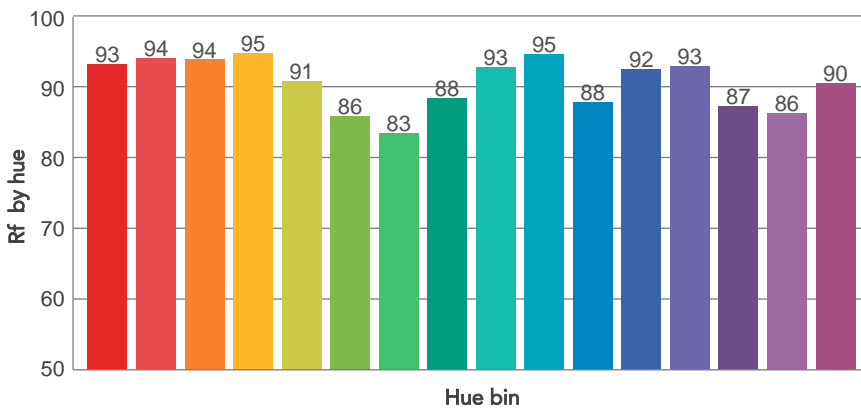
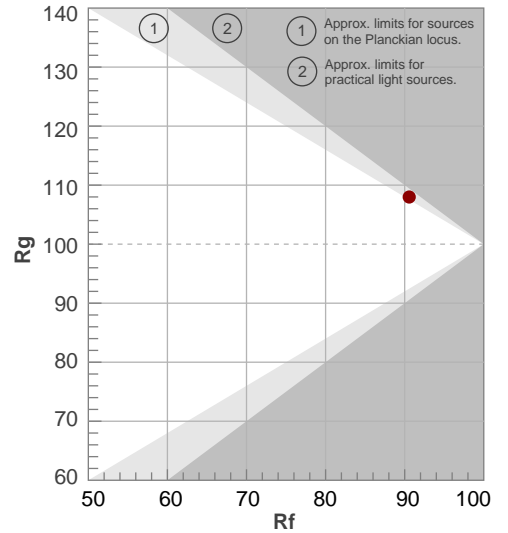
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6009 K	91,3	89,5	90,6	108,0	94,1	83	0,322	0,329	-0,0047

TM30 DETAILS

Rf 90,6
Fidelity index Rf

Rg 108,0
Gammut index

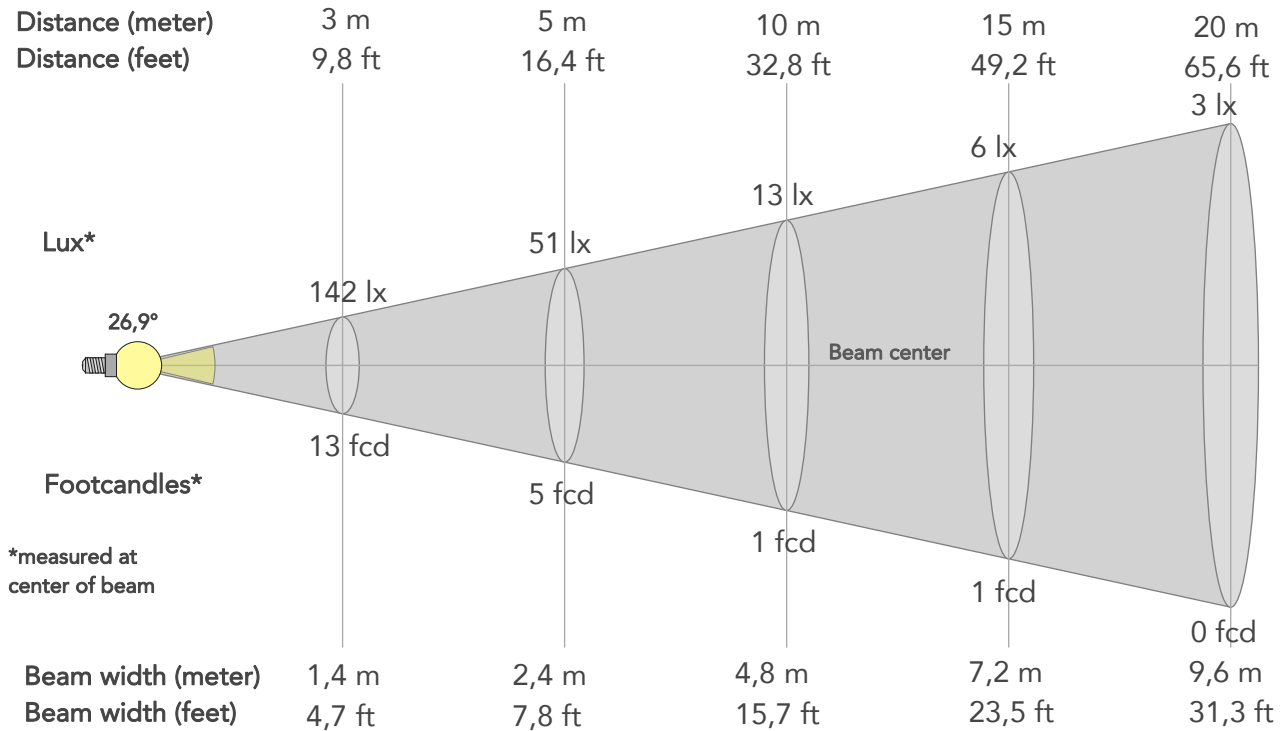
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	94	2%	0%
3	94	2%	2%
4	95	1%	1%
5	91	3%	3%
6	86	8%	5%
7	83	10%	1%
8	88	5%	-2%
9	93	2%	-4%
10	95	0%	-2%
11	88	1%	6%
12	92	2%	4%
13	93	5%	2%
14	87	5%	4%
15	86	11%	-4%
16	90	5%	-1%



BEAM DETAILS



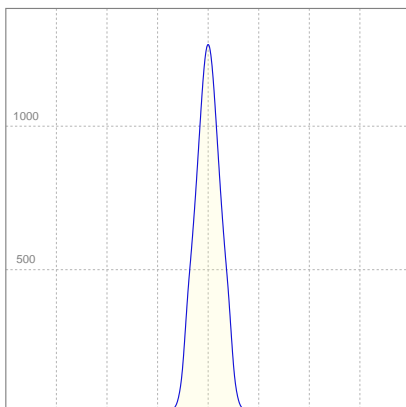
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,9°	47°	56,2°	99,9%	99,4%



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	1282lx	321lx	142lx	80lx	51lx	23lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	119fcd	30fcd	13fcd	7fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,6m	11,9m	14,3m	19,1m	23,9m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,8ft	11,7ft	15,7ft	23,5ft	31,3ft	39,2ft	47ft	62,7ft	78,3ft

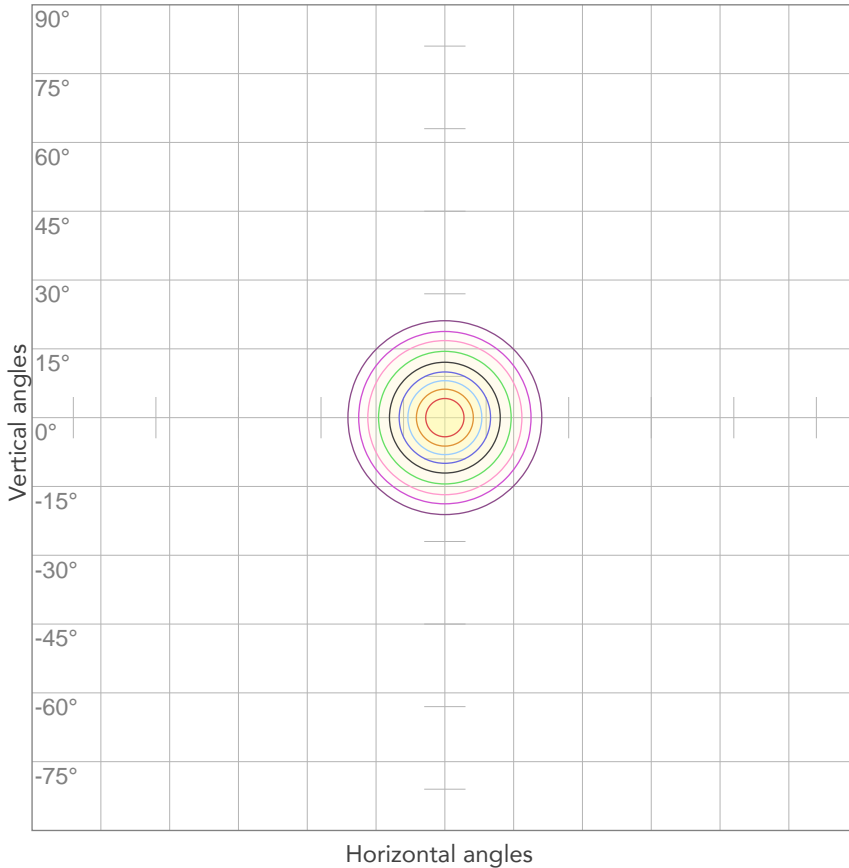
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,128A	26,5W	12lm/W

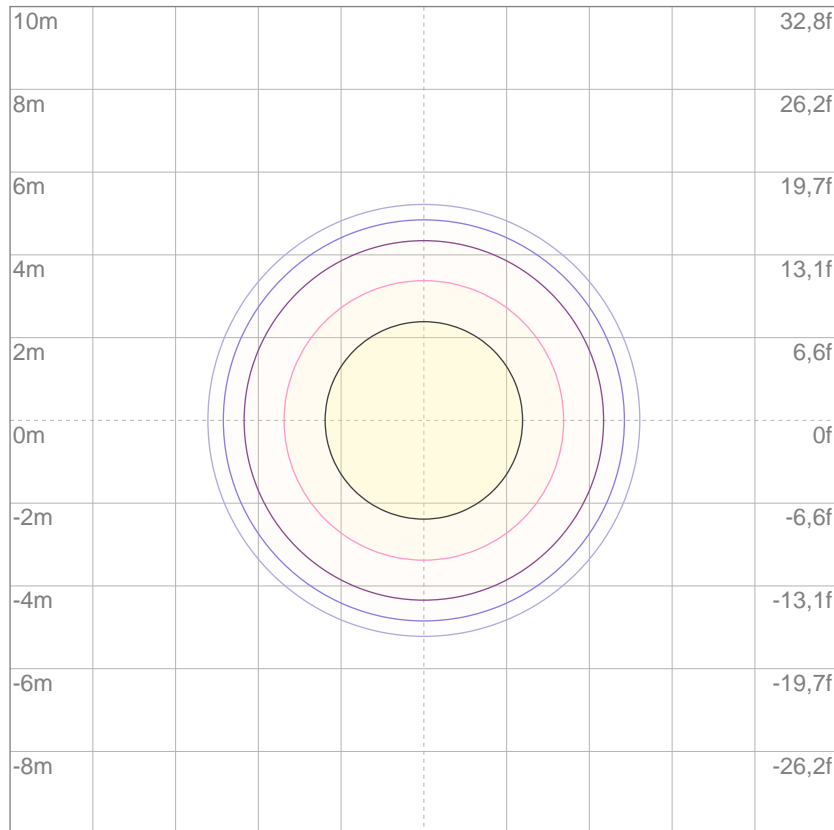
ISO CANDELA DIAGRAM



10%	128 cd
20%	256 cd
30%	385 cd
40%	513 cd
50%	641 cd
60%	769 cd
70%	897 cd
80%	1026 cd

Conditions:
 Number of c-planes: 2
 Candela at center: 1282 cd

ISO LUX DIAGRAM



3%	0,385 lx
5%	0,641 lx
10%	1,28 lx
30%	3,85 lx
50%	6,41 lx

Conditions:
 Number of c-planes: 2
 Lux at center: 12,8 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:

275 lm

Peak candela output:

2652 cd

Light quality:

CRI: 91,3

Color temperature:

5962 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

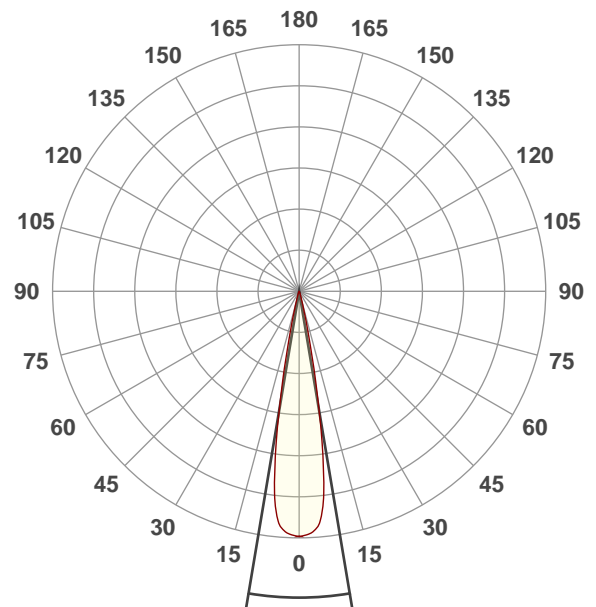
6000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:04:14

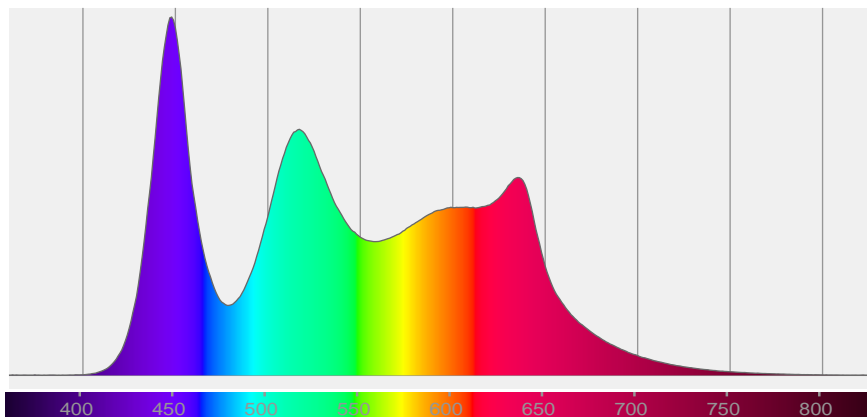


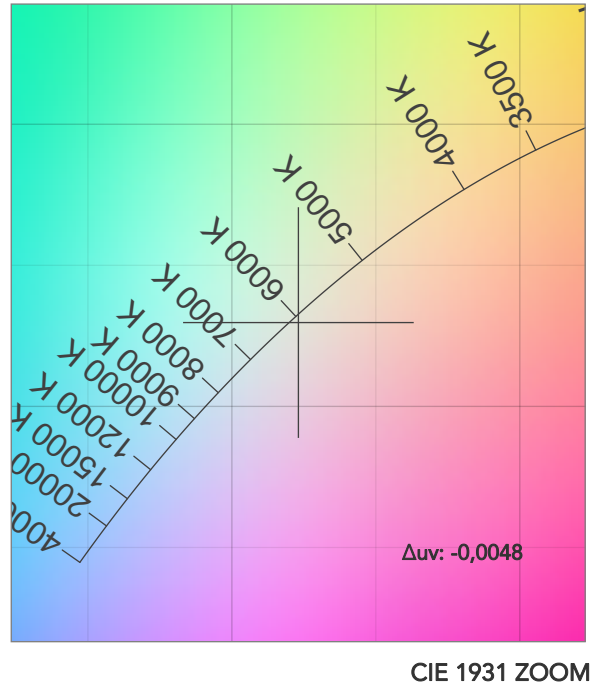
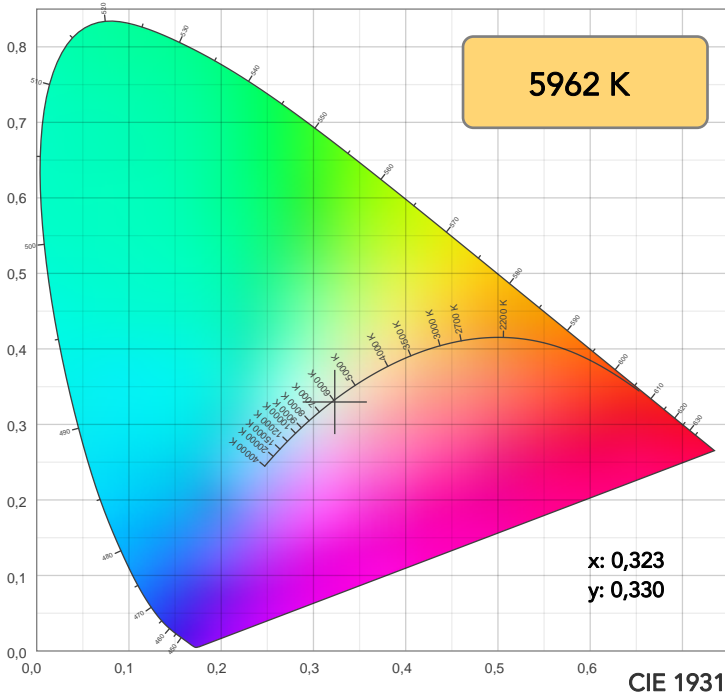
Beam angle 50%: 19°

Field angle 10%: 27,2°

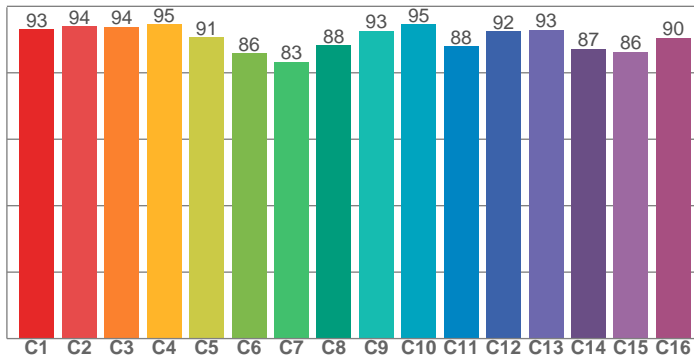
Cut off angle 2.5%: 34,4°

Spectra

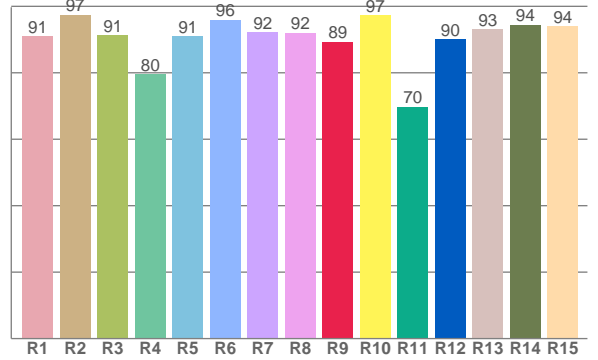




TM30: 90,5



CRI: 91,3 (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
91,0	97,4	91,2	79,6	90,9	96,0	92,1	92,1	89,3	97,2	69,8	90,0	93,1	94,4	93,9

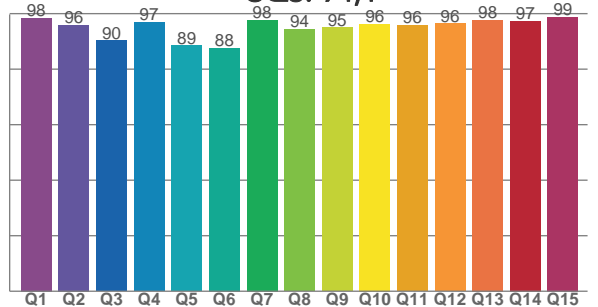
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,1	94,0	93,8	94,6	90,7	85,8	83,3	88,3	92,7	94,6	87,9	92,4	92,9	87,2	86,3	90,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,4	96,0	90,3	96,9	88,5	87,6	97,7	94,4	95,0	96,2	95,8	96,4	97,6	97,3	98,8

CQS: 94,1



COLOR PARAMETERS

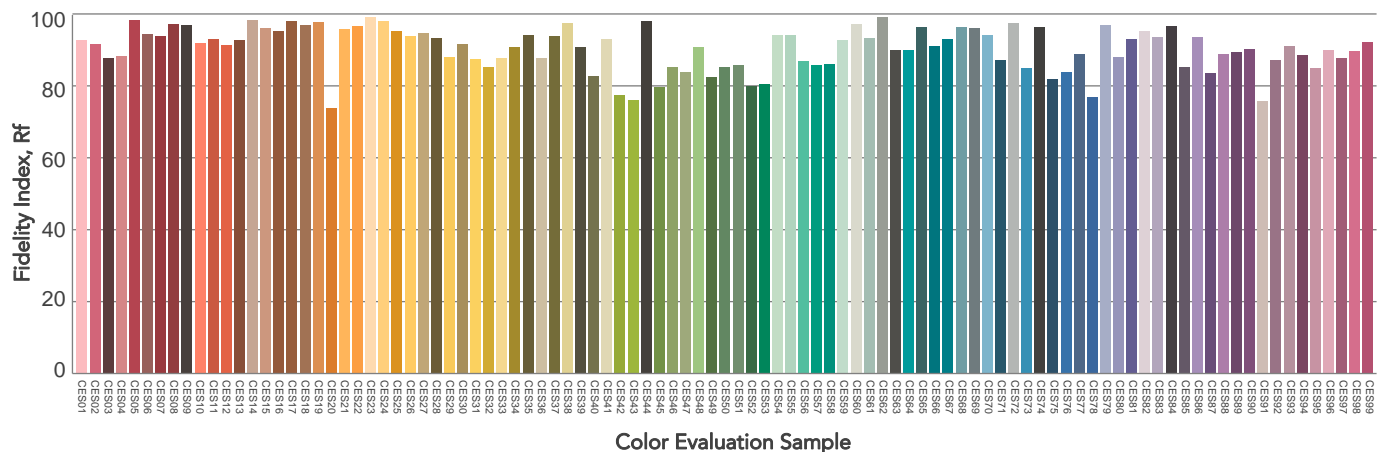
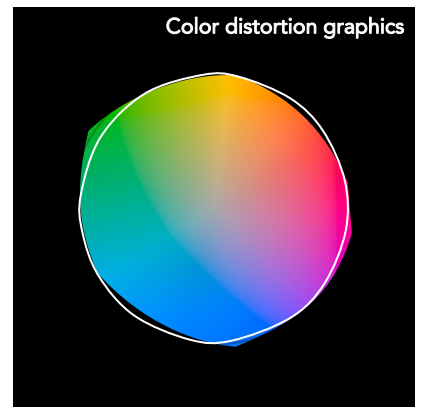
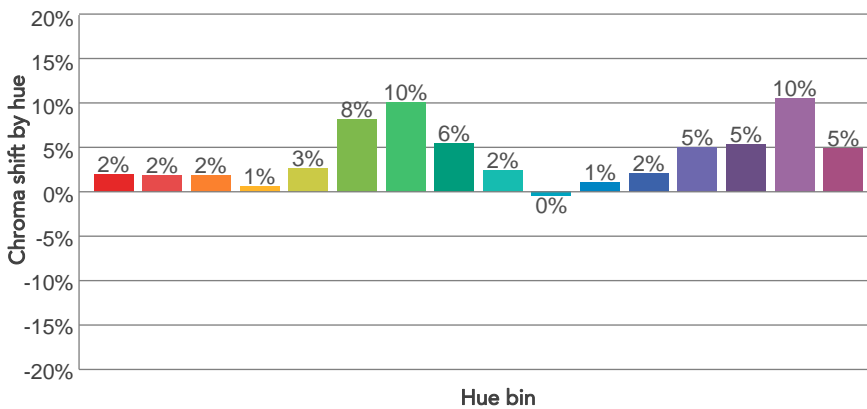
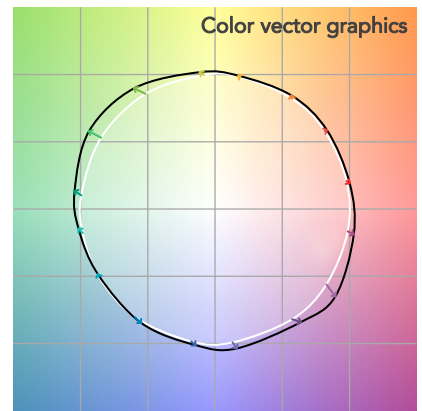
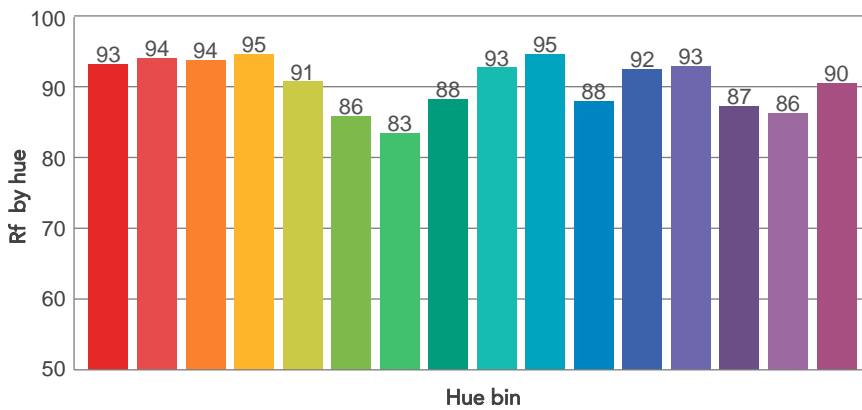
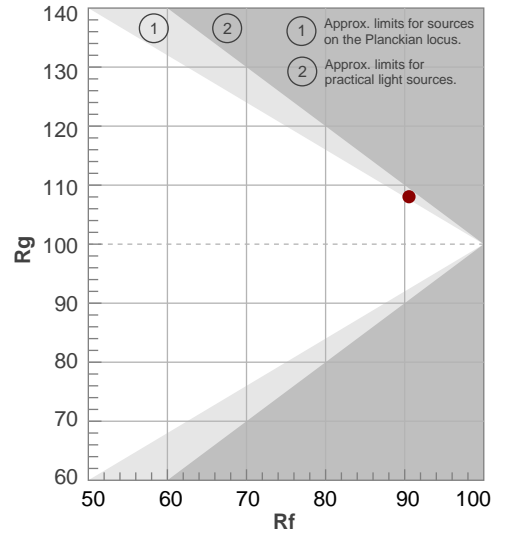
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5962 K	91,3	89,3	90,5	108,0	94,1	83	0,323	0,330	-0,0048

TM30 DETAILS

Rf 90,5
Fidelity index Rf

Rg 108,0
Gammut index

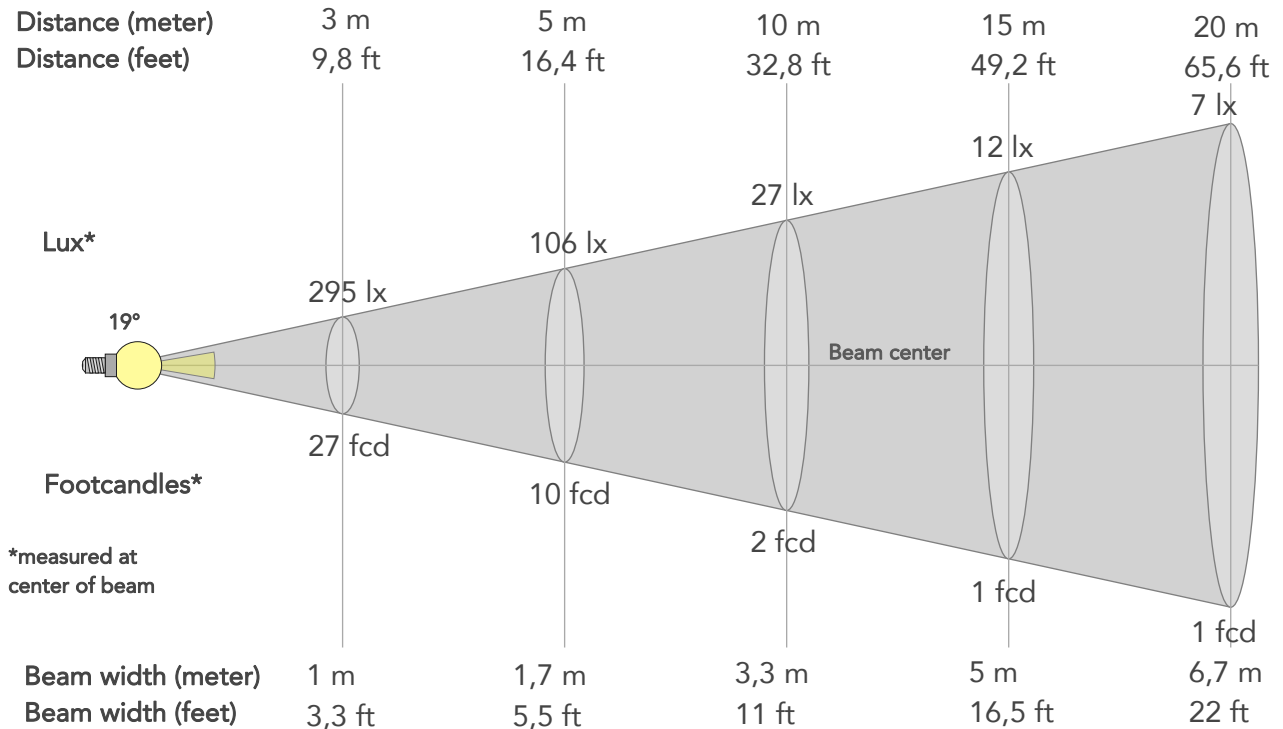
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	94	2%	0%
3	94	2%	2%
4	95	1%	1%
5	91	3%	3%
6	86	8%	5%
7	83	10%	1%
8	88	6%	-2%
9	93	2%	-4%
10	95	0%	-2%
11	88	1%	6%
12	92	2%	4%
13	93	5%	2%
14	87	5%	4%
15	86	10%	-4%
16	90	5%	-1%



BEAM DETAILS



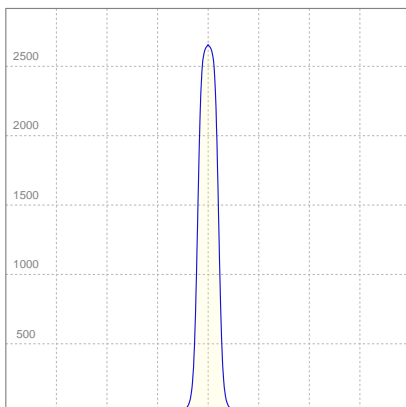
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19°	27,2°	34,4°	100,0%	99,8%



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	2652lx	663lx	295lx	166lx	106lx	47lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	246fcd	62fcd	27fcd	15fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,7m	8,4m	10m	13,4m	16,7m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,2ft	11ft	16,5ft	22ft	27,5ft	33ft	43,9ft	54,9ft

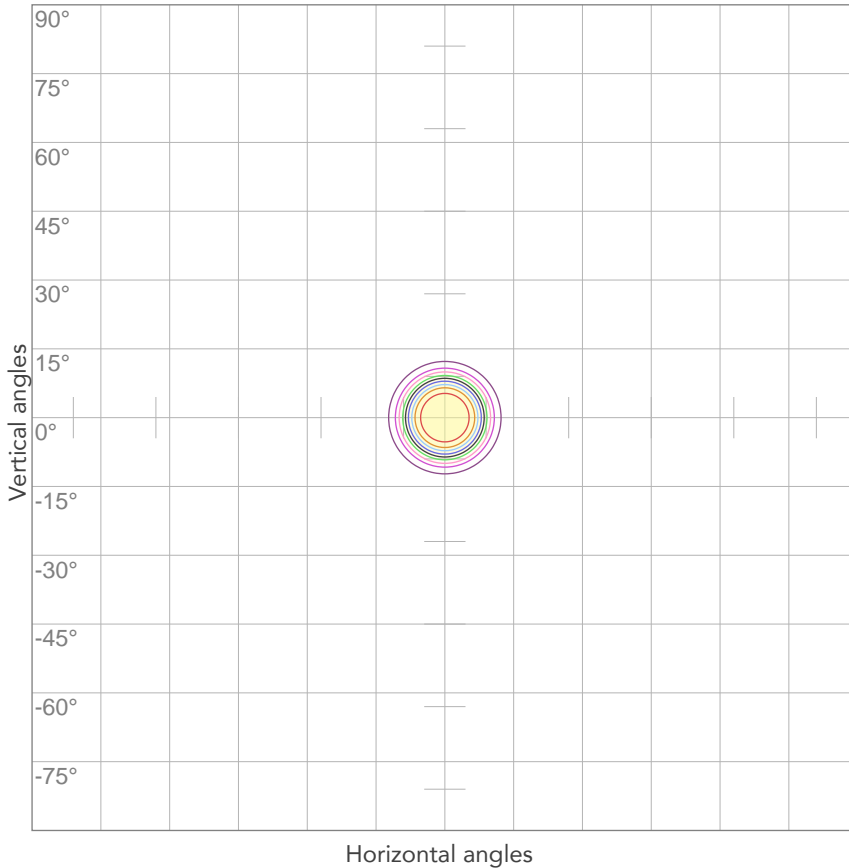
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,128A	26,6W	10lm/W

ISO CANDELA DIAGRAM



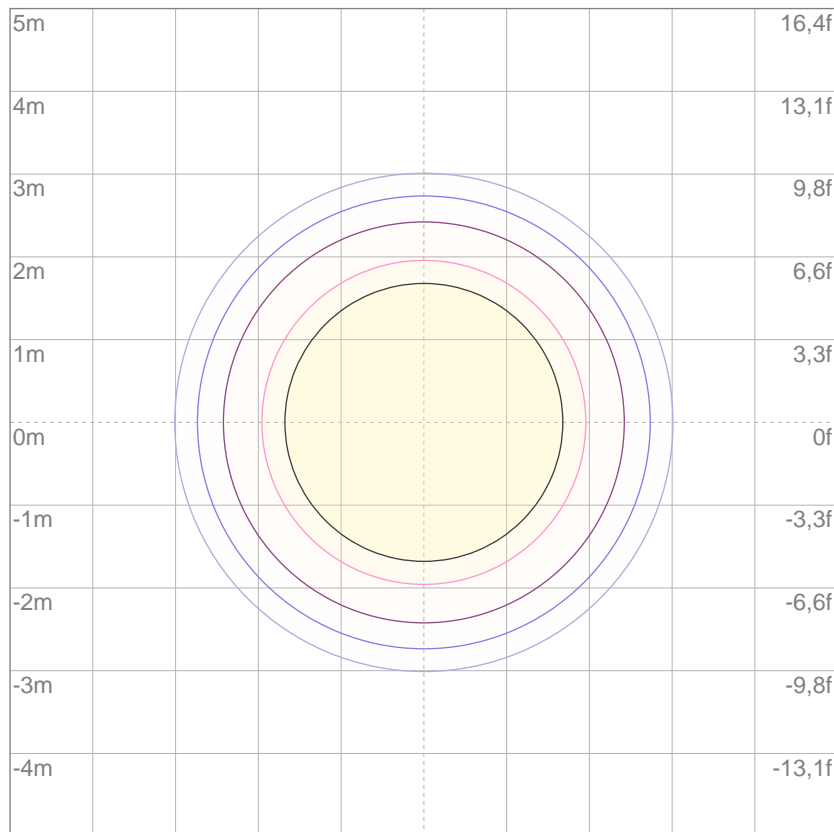
10%	265 cd
20%	530 cd
30%	796 cd
40%	1061 cd
50%	1326 cd
60%	1591 cd
70%	1856 cd
80%	2122 cd

Conditions:

Number of c-planes: 2

Candela at center: 2652 cd

ISO LUX DIAGRAM



3%	0,796 lx
5%	1,33 lx
10%	2,65 lx
30%	7,96 lx
50%	13,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 26,5 lx

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

Mounting height: 10 meters (33 feet)