

Photometric Test Report



ECLDISPLAYUNFC

ZOOMABLE WASH LENS 25-50°

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:

369 lm

Peak candela output:

447 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

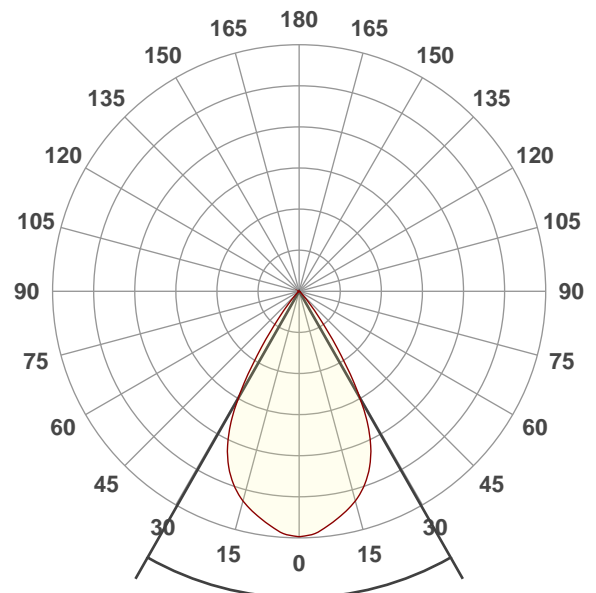
Full On

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:27:18

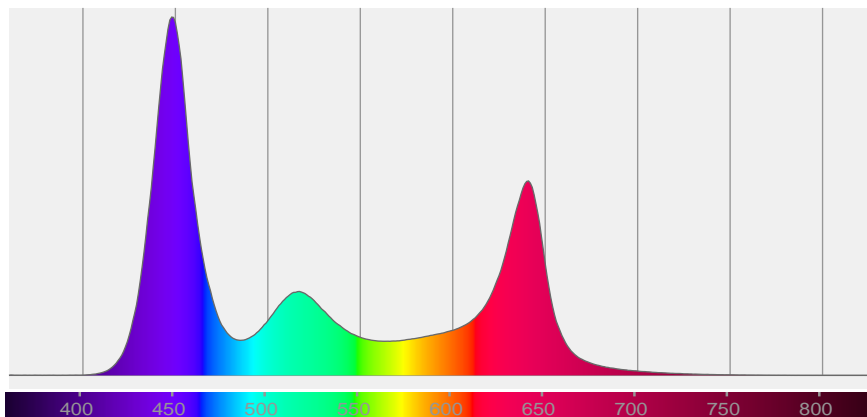


Beam angle 50%: 59,3°

Field angle 10%: 77,6°

Cut off angle 2.5%: 89,3°

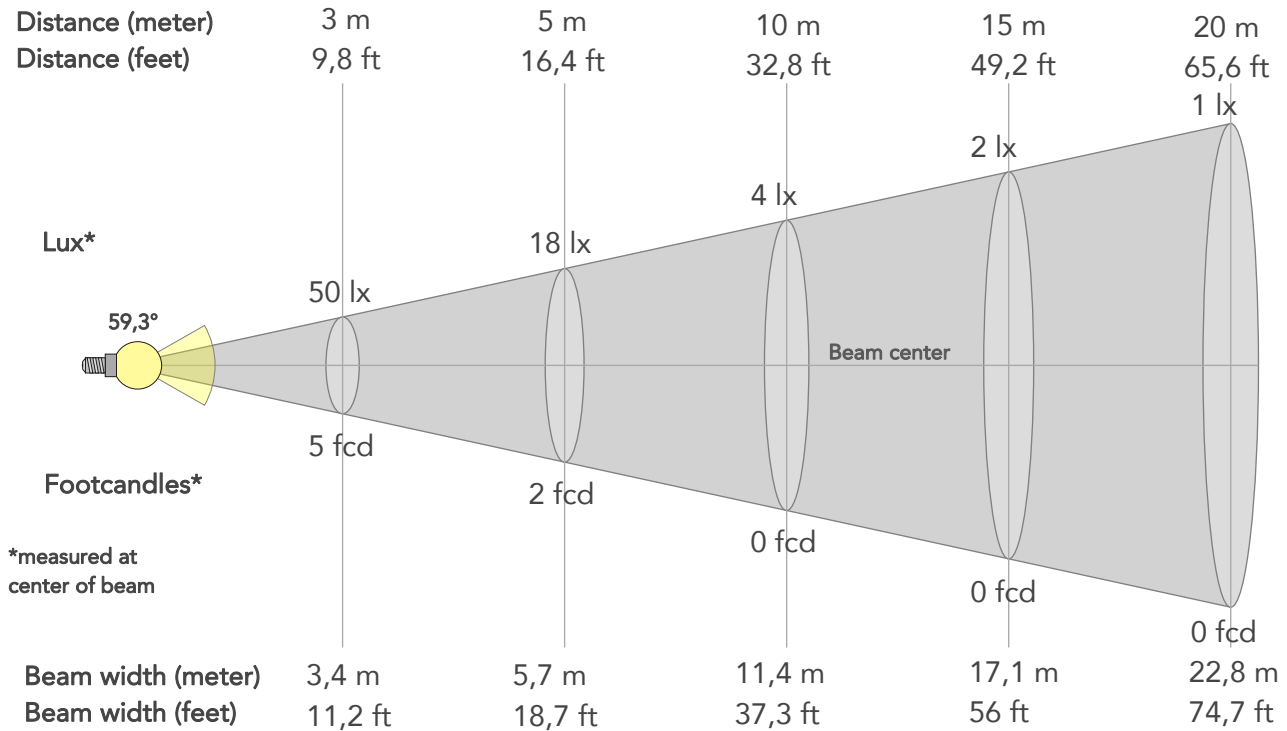
Spectra



BEAM DETAILS



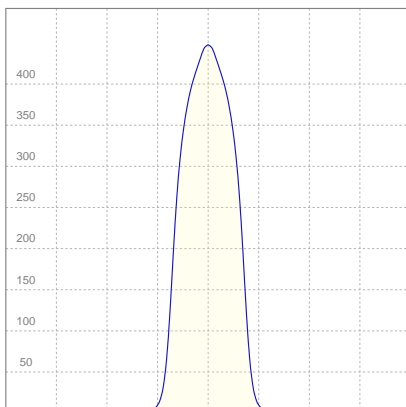
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 59,3° | 77,6° | 89,3° | 99,8% | 98,5% |



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

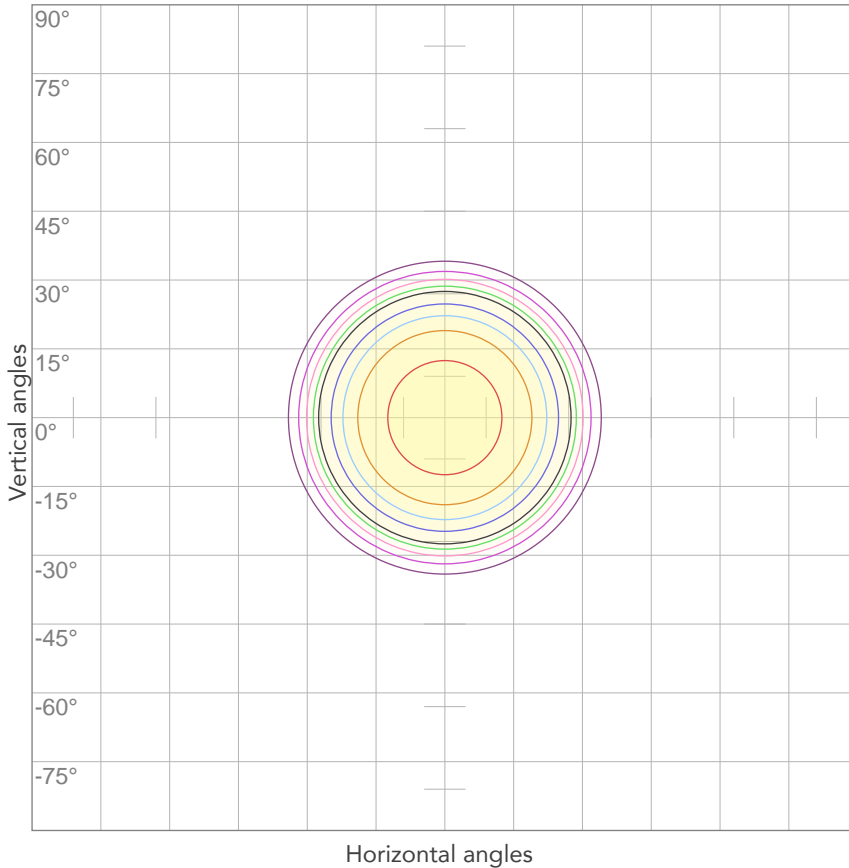


ELECTRICAL SPECIFICATIONS

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

| Power FC |
|----------|
| 0,94 |

ISO CANDELA DIAGRAM



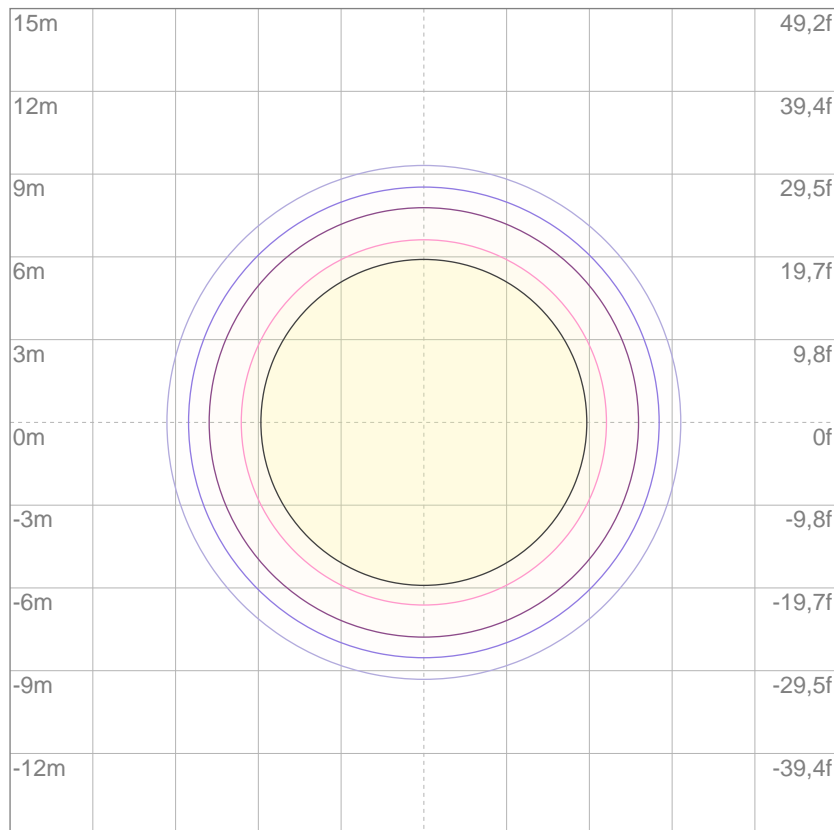
| | |
|-----|--------|
| 10% | 45 cd |
| 20% | 89 cd |
| 30% | 134 cd |
| 40% | 179 cd |
| 50% | 224 cd |
| 60% | 268 cd |
| 70% | 313 cd |
| 80% | 358 cd |

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.



Total lumen output:

280 lm

Peak candela output:

1121 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

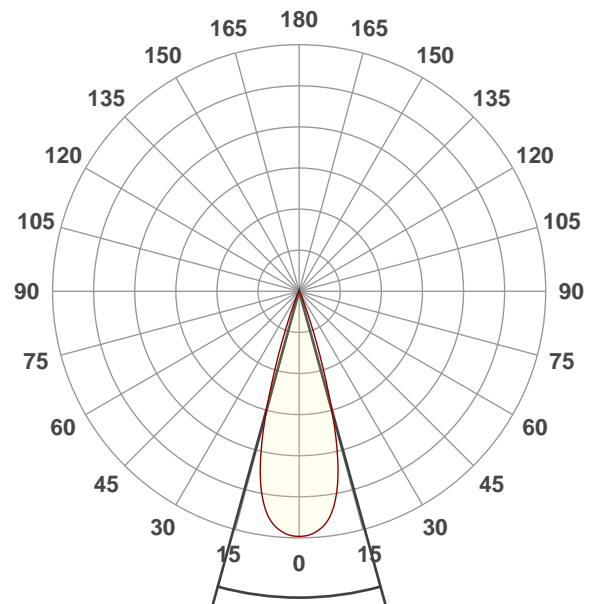
Full On

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:29:07

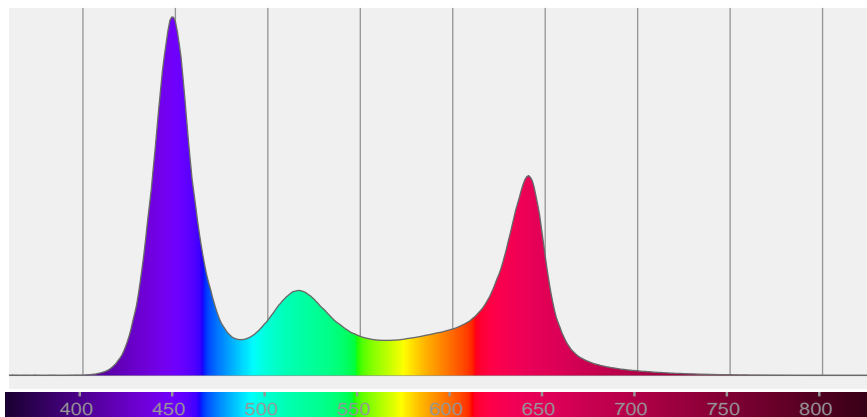


Beam angle 50%: 30,8°

Field angle 10%: 42°

Cut off angle 2.5%: 51,4°

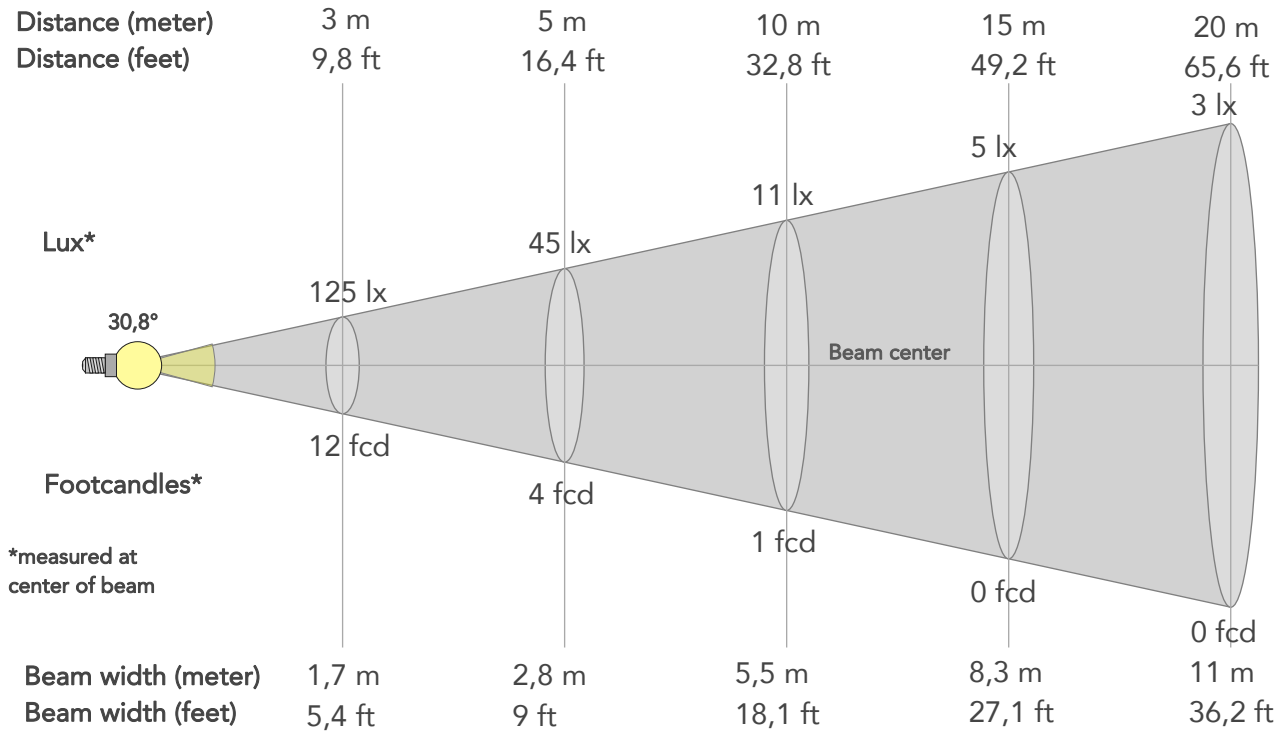
Spectra



BEAM DETAILS



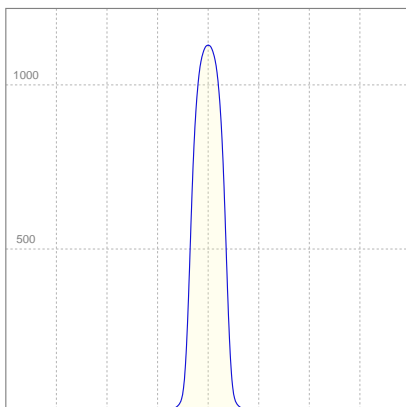
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 30,8° | 42° | 51,4° | 99,9% | 99,6% |



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

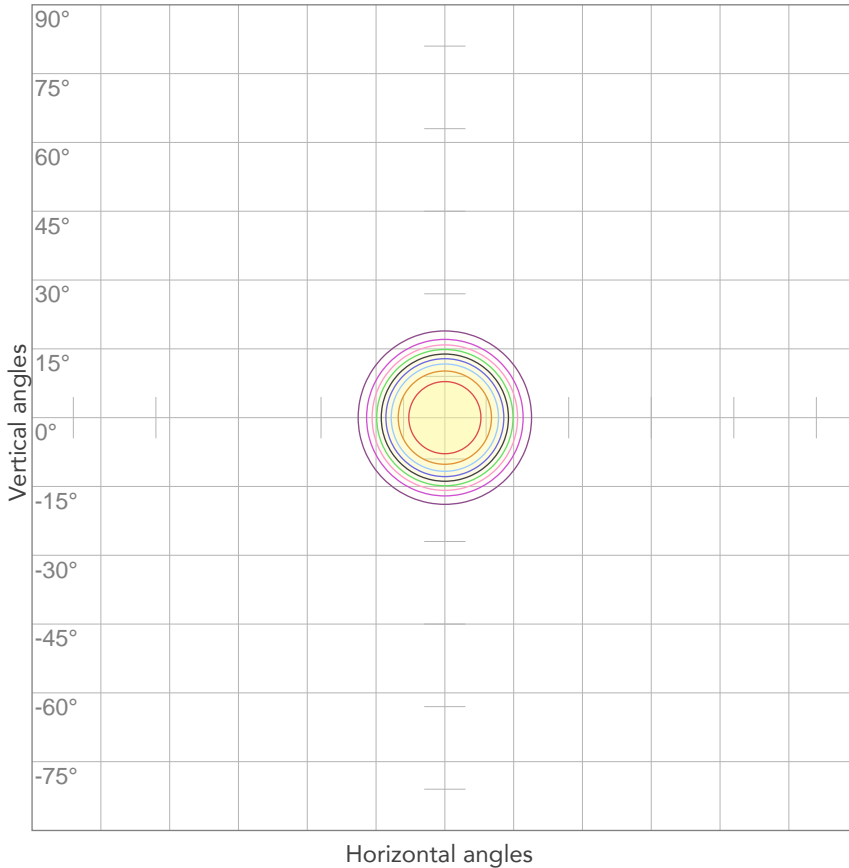


ELECTRICAL SPECIFICATIONS

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

| |
|----------|
| Power FC |
| 0,94 |

ISO CANDELA DIAGRAM



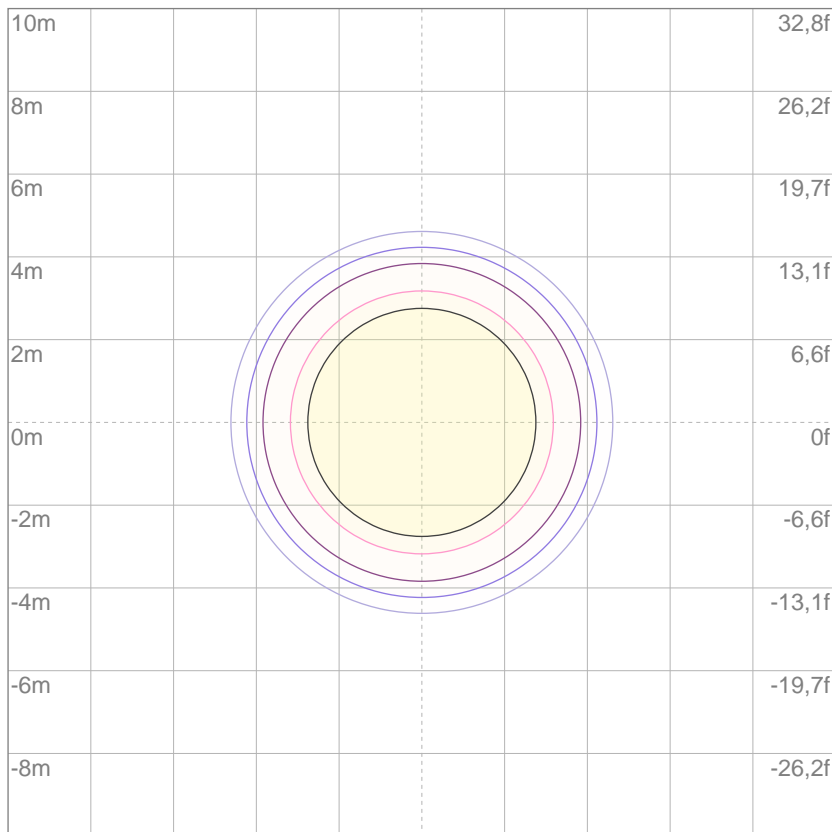
| | |
|-----|--------|
| 10% | 112 cd |
| 20% | 224 cd |
| 30% | 336 cd |
| 40% | 448 cd |
| 50% | 560 cd |
| 60% | 672 cd |
| 70% | 785 cd |
| 80% | 897 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1121 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 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.

Mounting height: 10 meters (33 feet)



Total lumen output:

96,2 lm

Peak candela output:

121 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

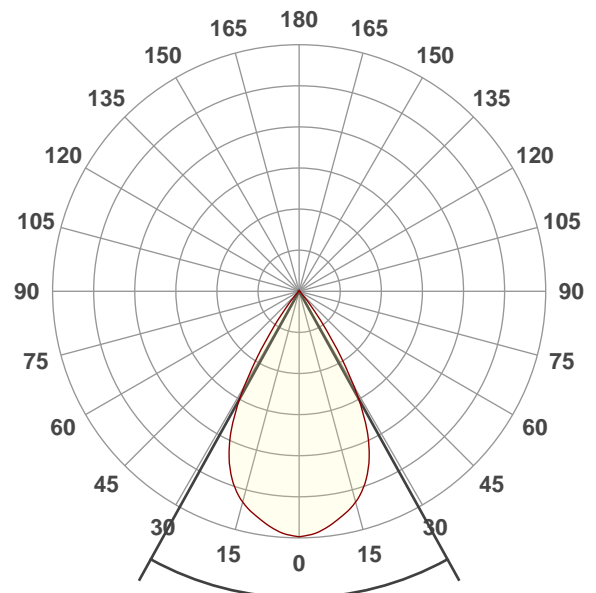
Red

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:05:14

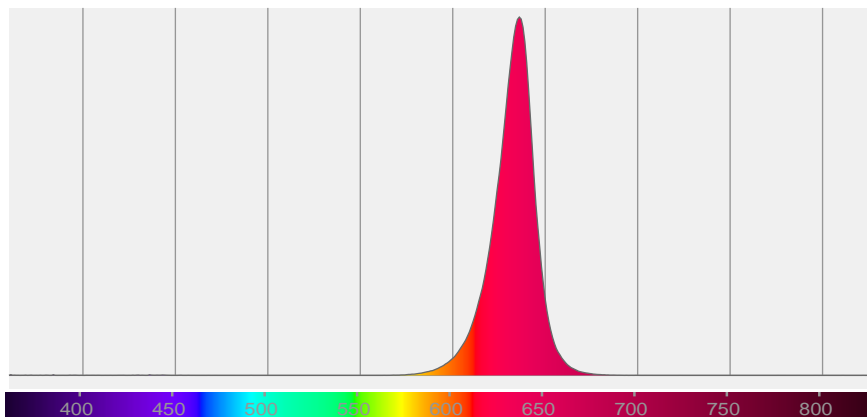


Beam angle 50%: 57,9°

Field angle 10%: 76,2°

Cut off angle 2.5%: 87,8°

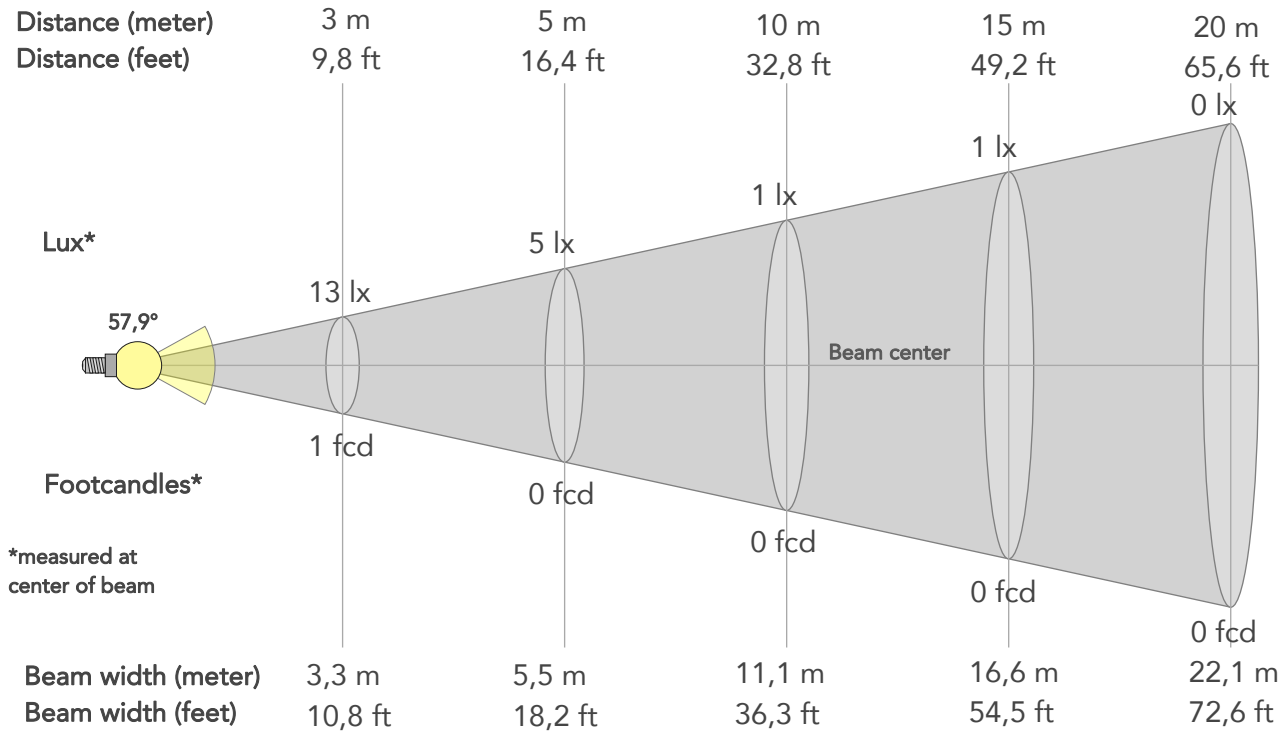
Spectra



BEAM DETAILS



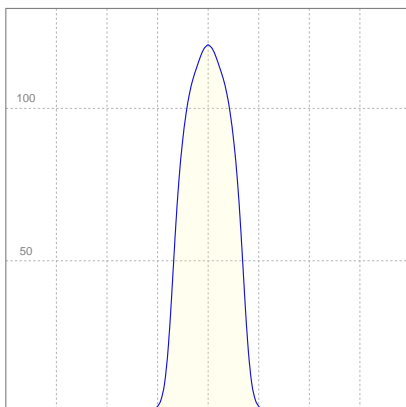
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 57,9° | 76,2° | 87,8° | 99,6% | 98,3% |



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

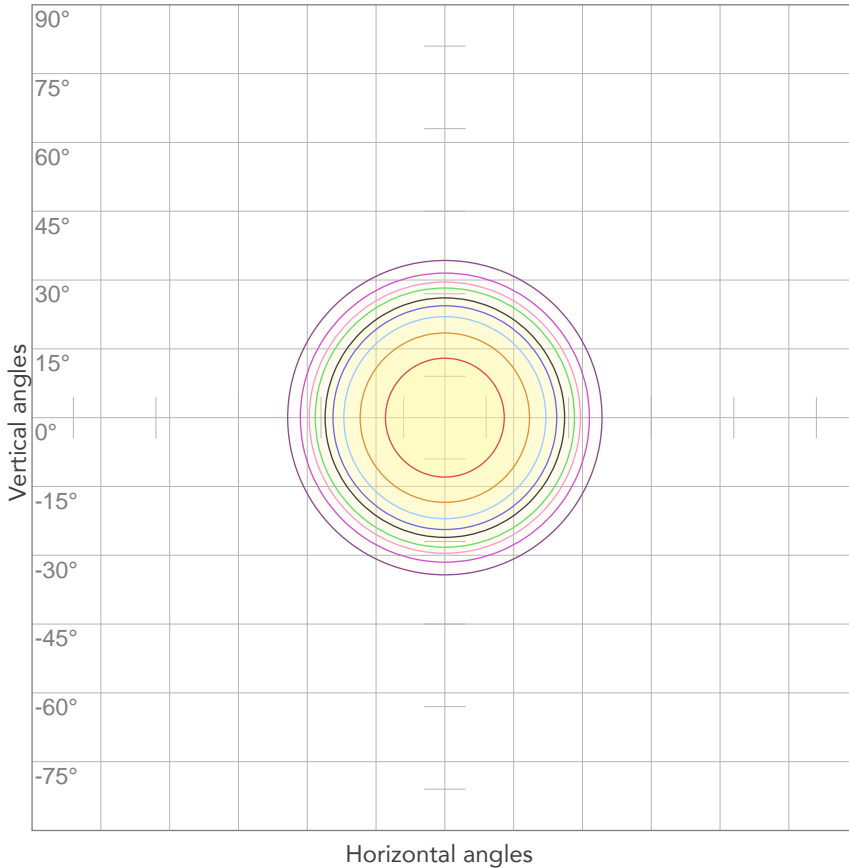


ELECTRICAL SPECIFICATIONS

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

| Power FC |
|----------|
| 0,85 |

ISO CANDELA DIAGRAM



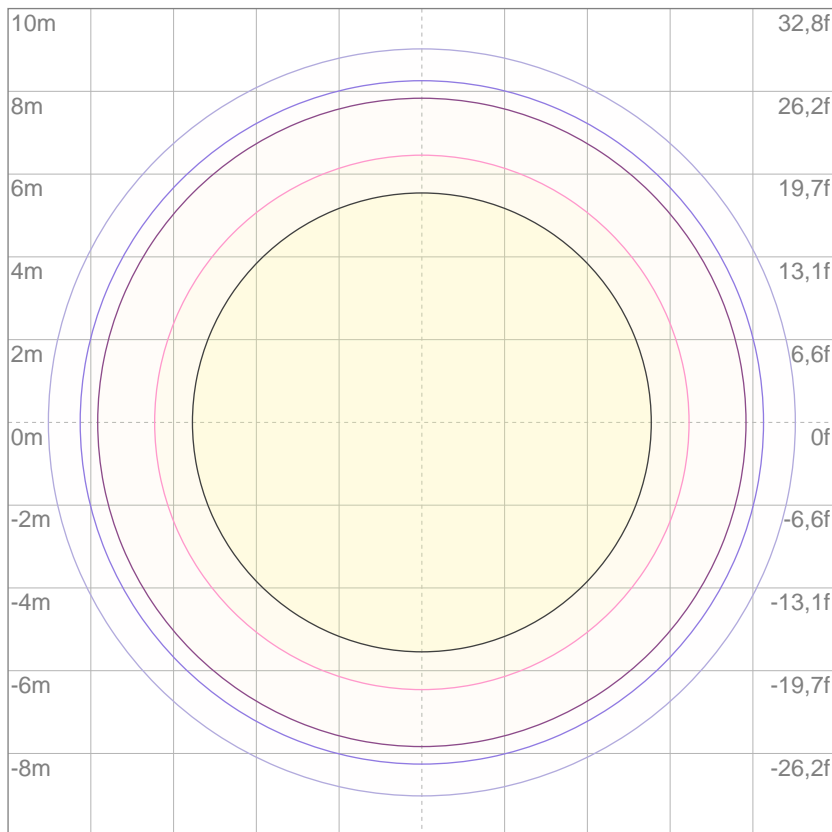
| | |
|-----|-------|
| 10% | 12 cd |
| 20% | 24 cd |
| 30% | 36 cd |
| 40% | 48 cd |
| 50% | 60 cd |
| 60% | 72 cd |
| 70% | 84 cd |
| 80% | 97 cd |

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:

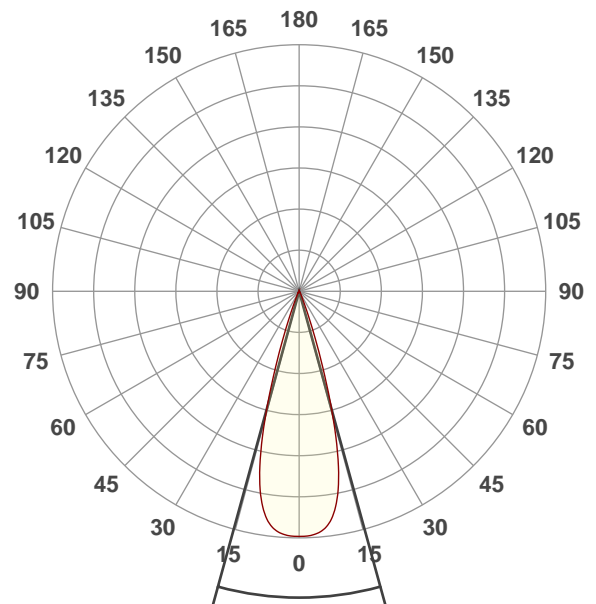
Red

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:14:41

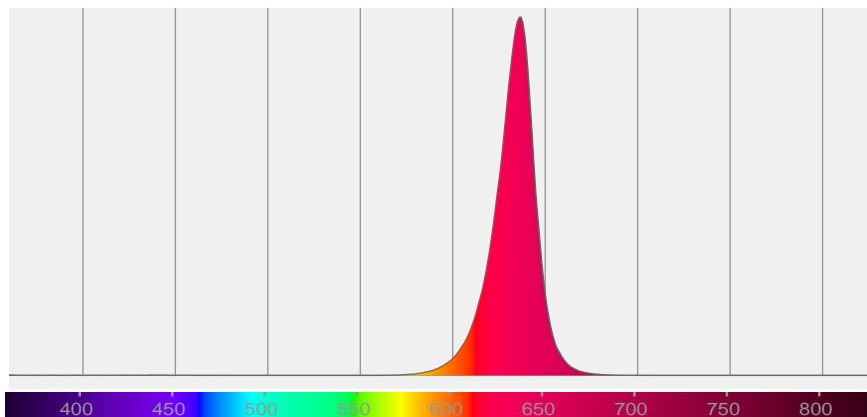


Beam angle 50%: 30,7°

Field angle 10%: 42°

Cut off angle 2.5%: 51,7°

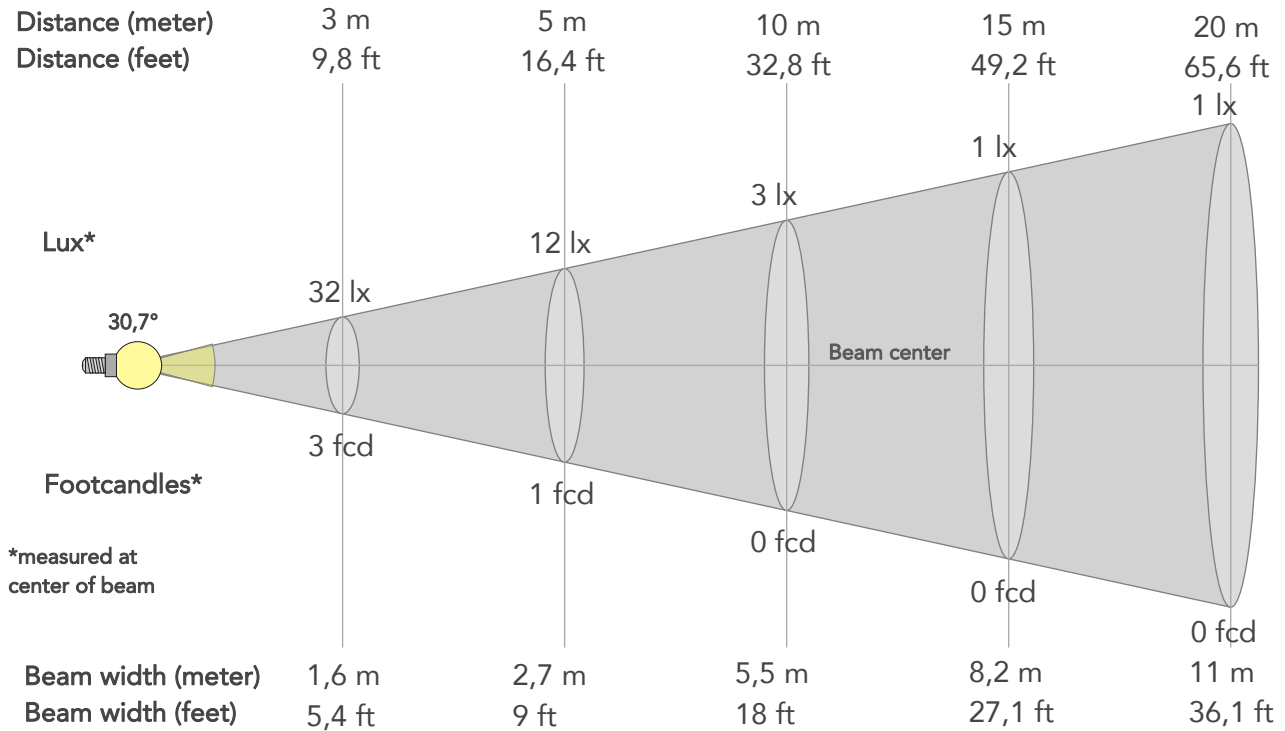
Spectra



BEAM DETAILS



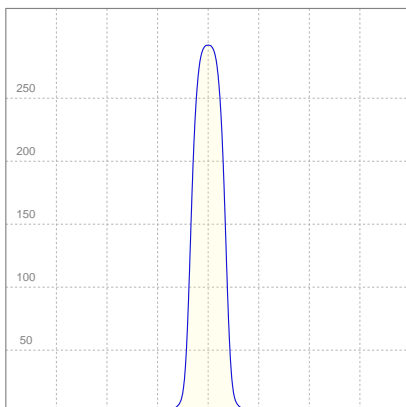
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 30,7° | 42° | 51,7° | 99,7% | 99,0% |



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

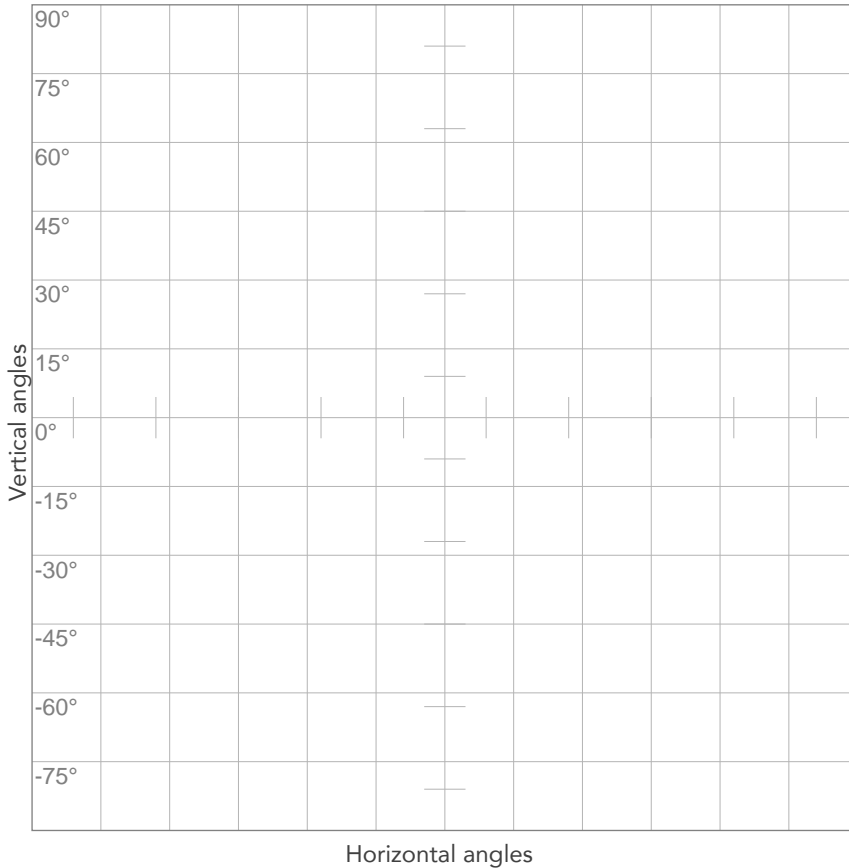


ELECTRICAL SPECIFICATIONS

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

| |
|----------|
| Power FC |
| 0,85 |

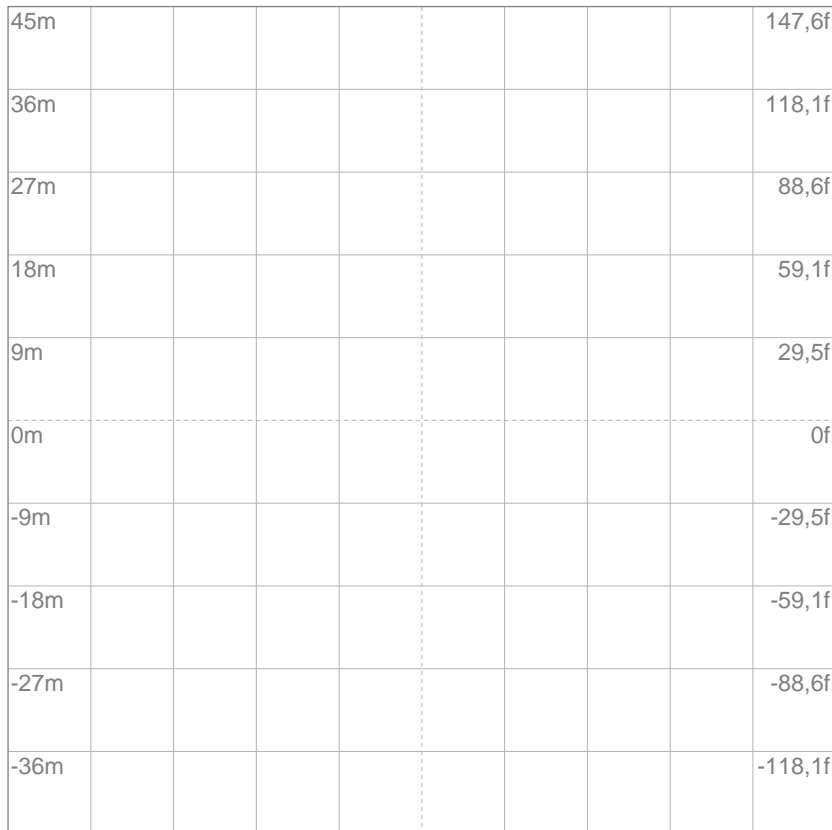
ISO CANDELA DIAGRAM



| | |
|-----|--------|
| 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:

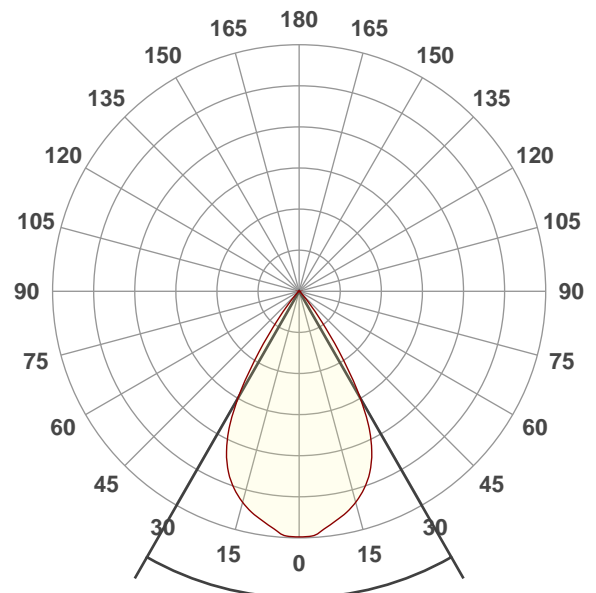
Green

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:07:04

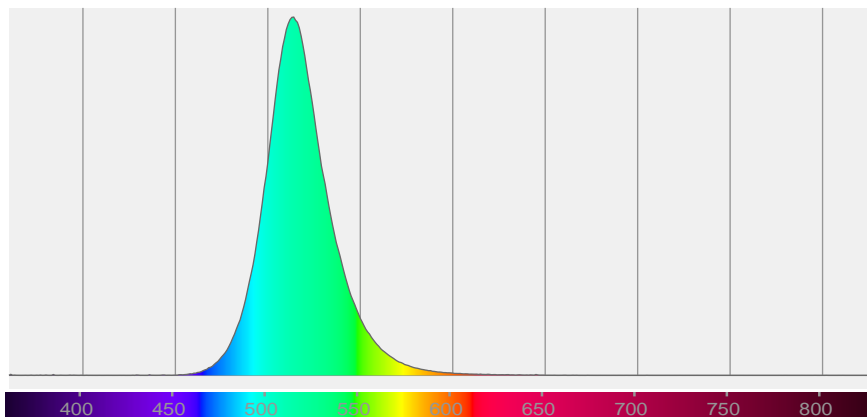


Beam angle 50%: 59,6°

Field angle 10%: 77,2°

Cut off angle 2.5%: 88,7°

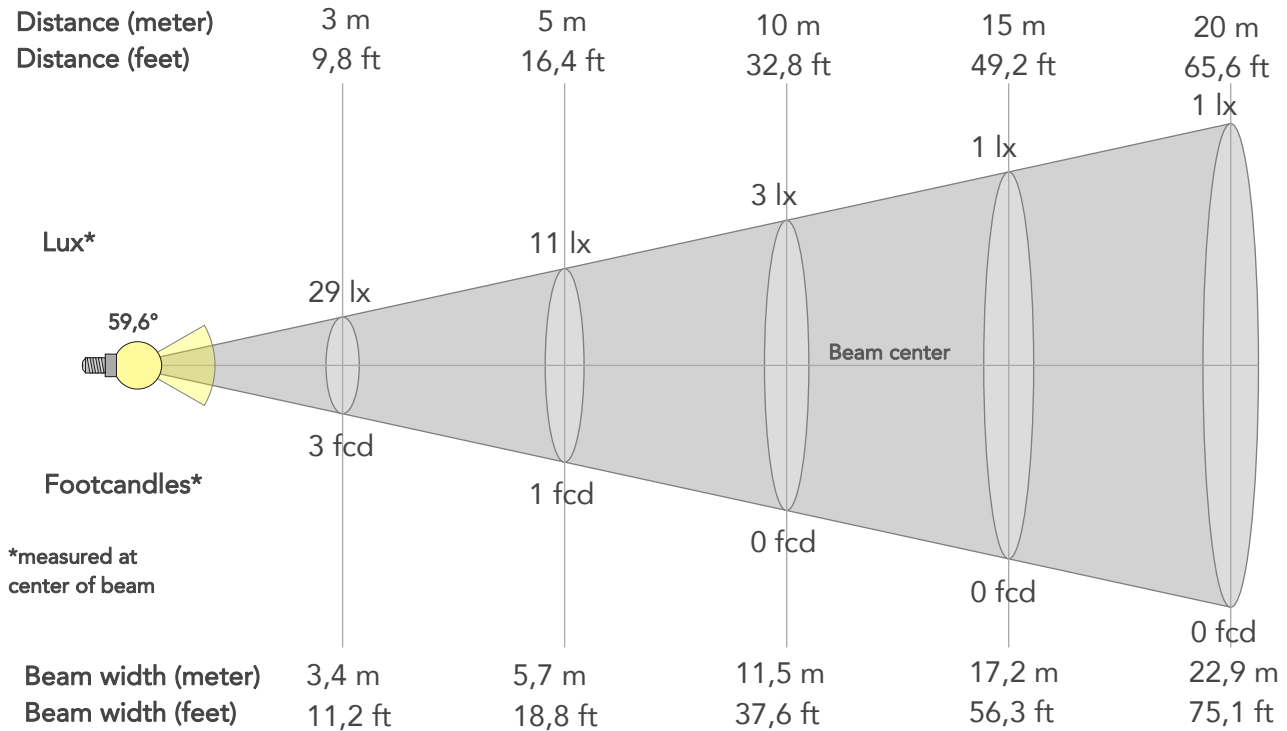
Spectra



BEAM DETAILS



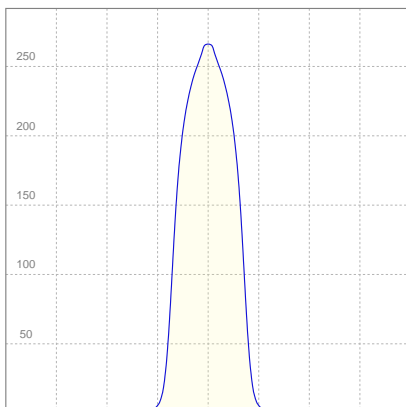
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 59,6° | 77,2° | 88,7° | 99,7% | 98,4% |



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

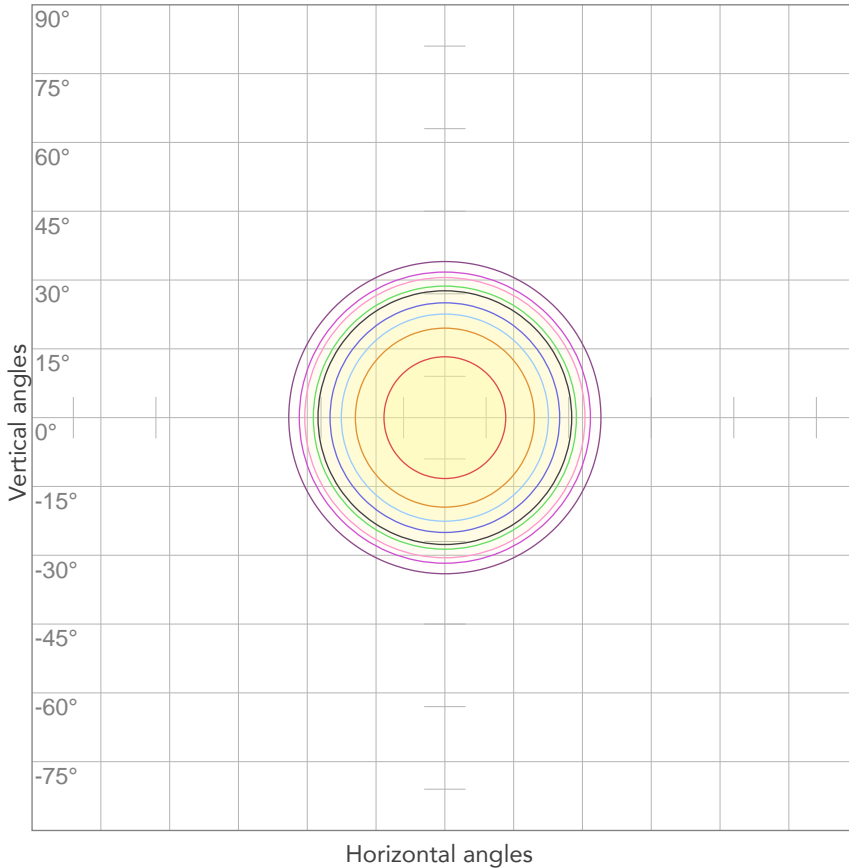


ELECTRICAL SPECIFICATIONS

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

| Power FC |
|----------|
| 0,89 |

ISO CANDELA DIAGRAM



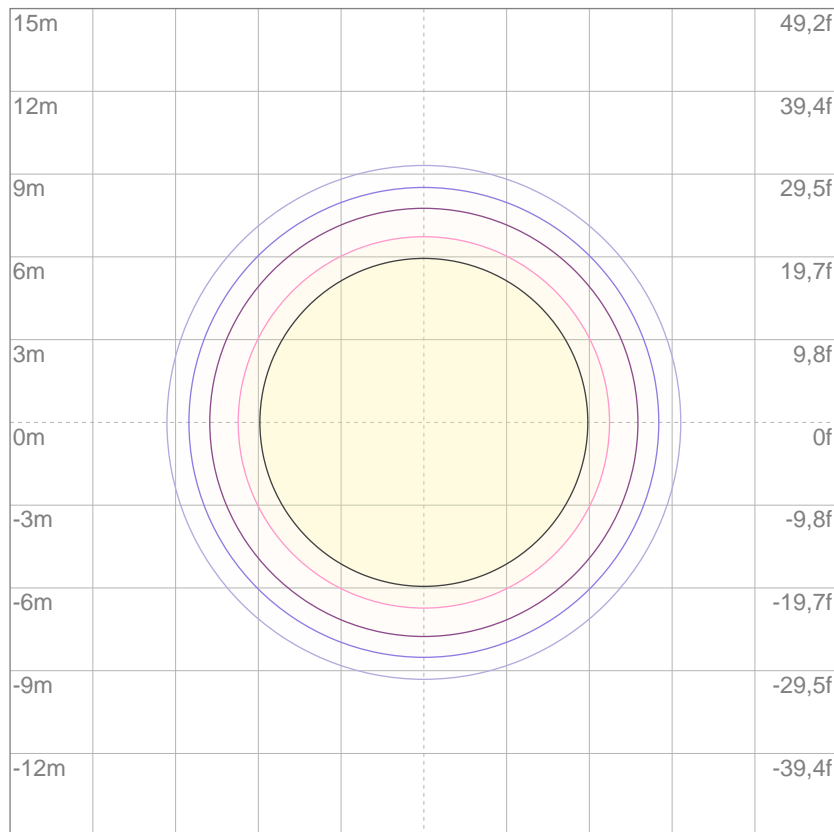
| | |
|-----|--------|
| 10% | 27 cd |
| 20% | 53 cd |
| 30% | 80 cd |
| 40% | 106 cd |
| 50% | 133 cd |
| 60% | 159 cd |
| 70% | 186 cd |
| 80% | 212 cd |

Conditions:

Number of c-planes: 2

Candela at center: 265 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

| | |
|-----|----------|
| 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.



Total lumen output:

166 lm

Peak candela output:

664 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

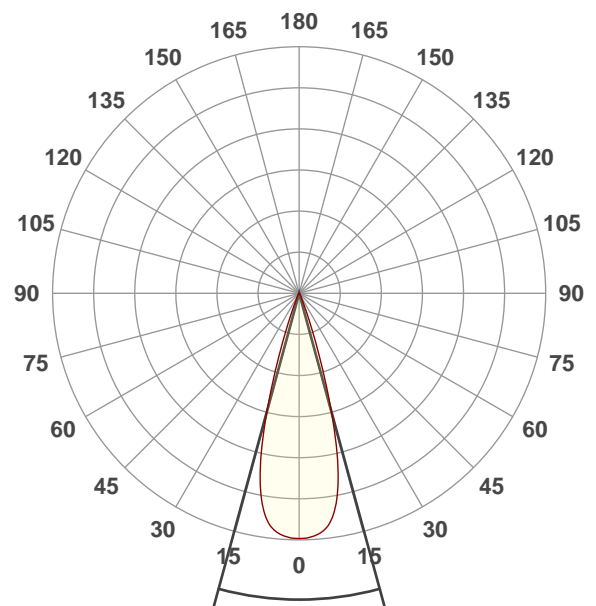
Green

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:17:24

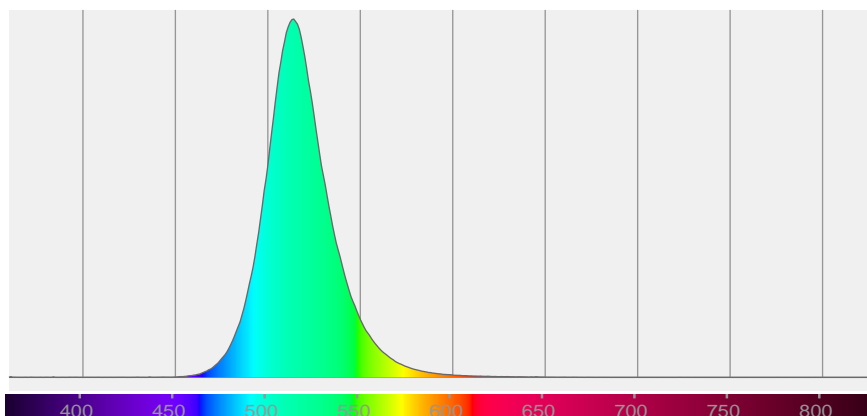


Beam angle 50%: 30,5°

Field angle 10%: 41,6°

Cut off angle 2.5%: 51,7°

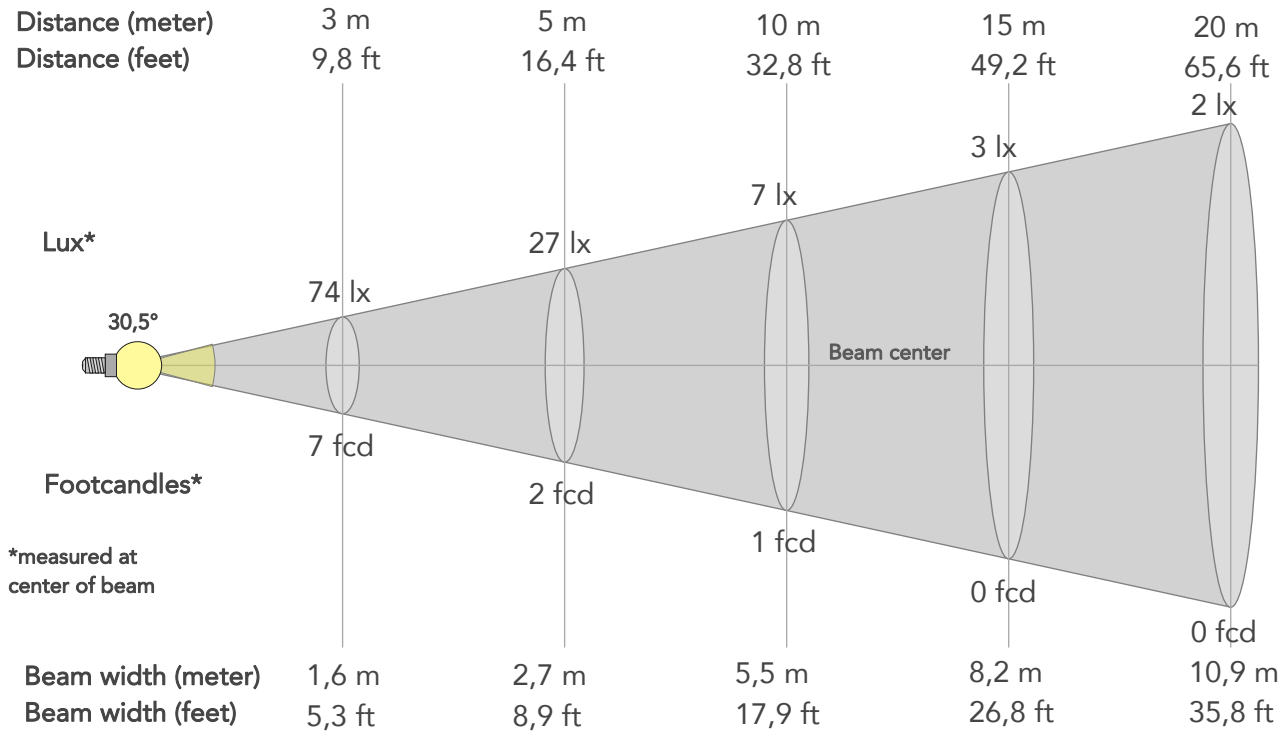
Spectra



BEAM DETAILS



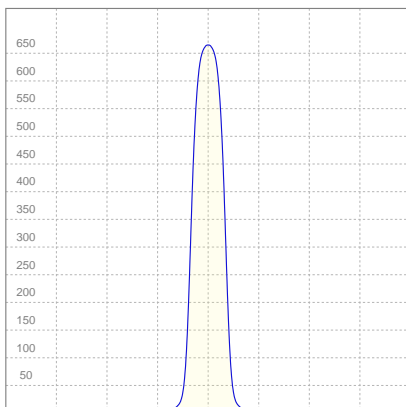
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 30,5° | 41,6° | 51,7° | 99,6% | 99,0% |



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

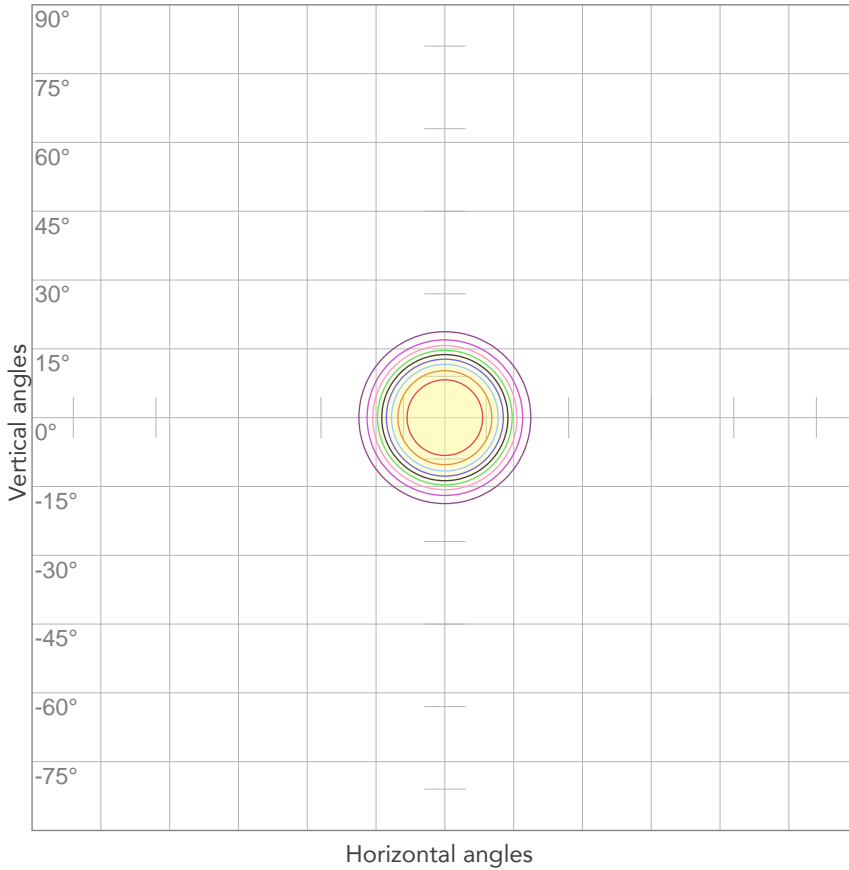


ELECTRICAL SPECIFICATIONS

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

| |
|----------|
| Power FC |
| 0,89 |

ISO CANDELA DIAGRAM

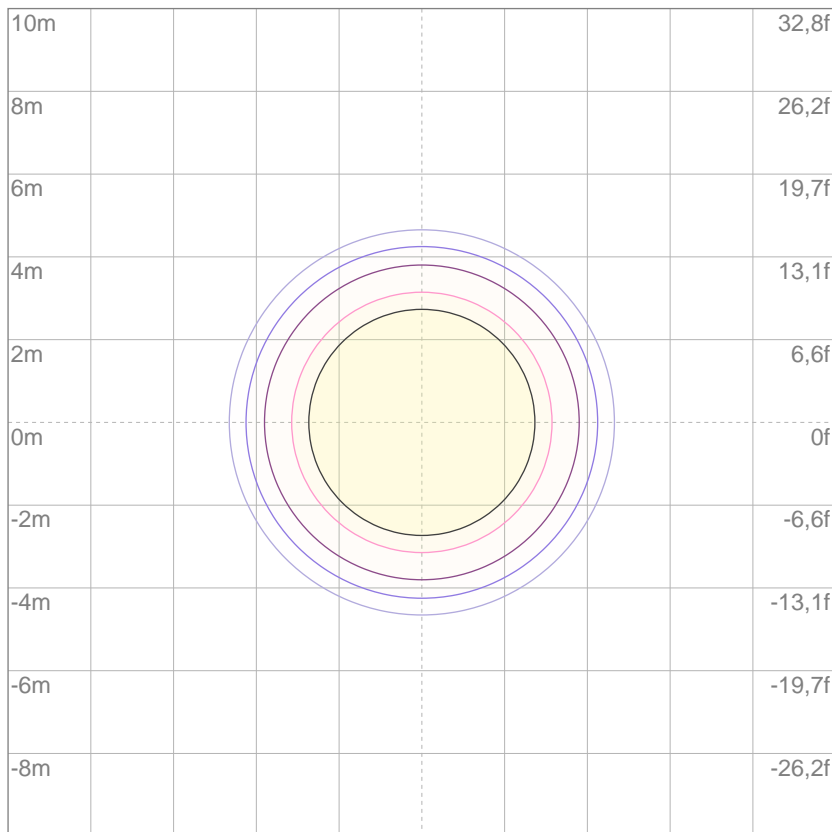


| | |
|-----|--------|
| 10% | 66 cd |
| 20% | 133 cd |
| 30% | 199 cd |
| 40% | 266 cd |
| 50% | 332 cd |
| 60% | 399 cd |
| 70% | 465 cd |
| 80% | 532 cd |

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

MEASURAMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

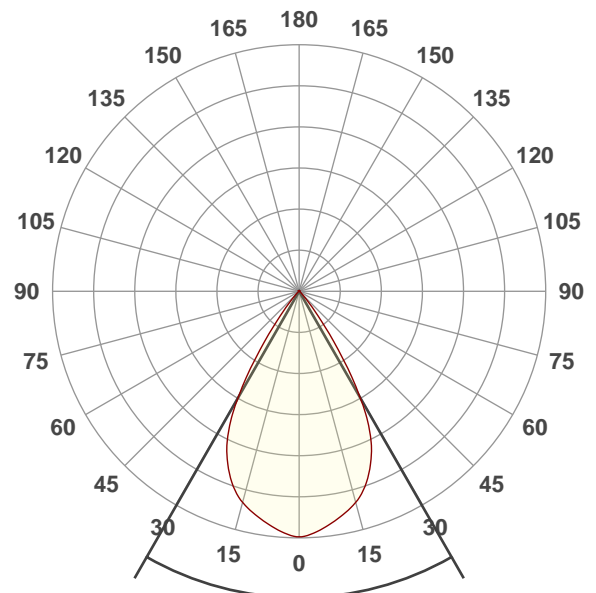
Blue

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:08:38

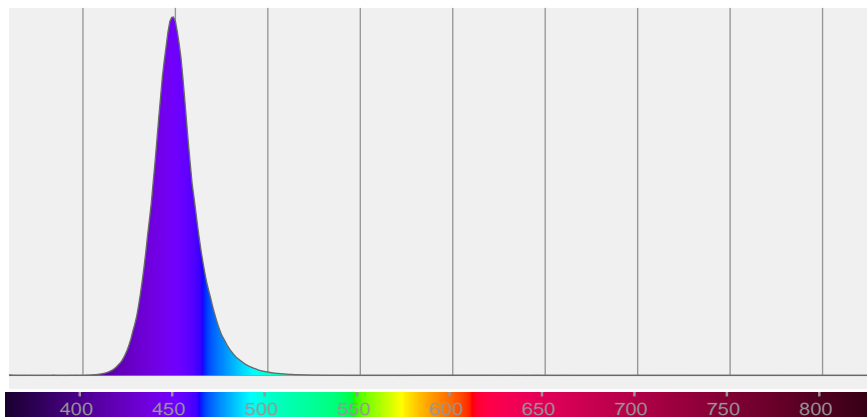


Beam angle 50%: 59,7°

Field angle 10%: 77,5°

Cut off angle 2.5%: 89,2°

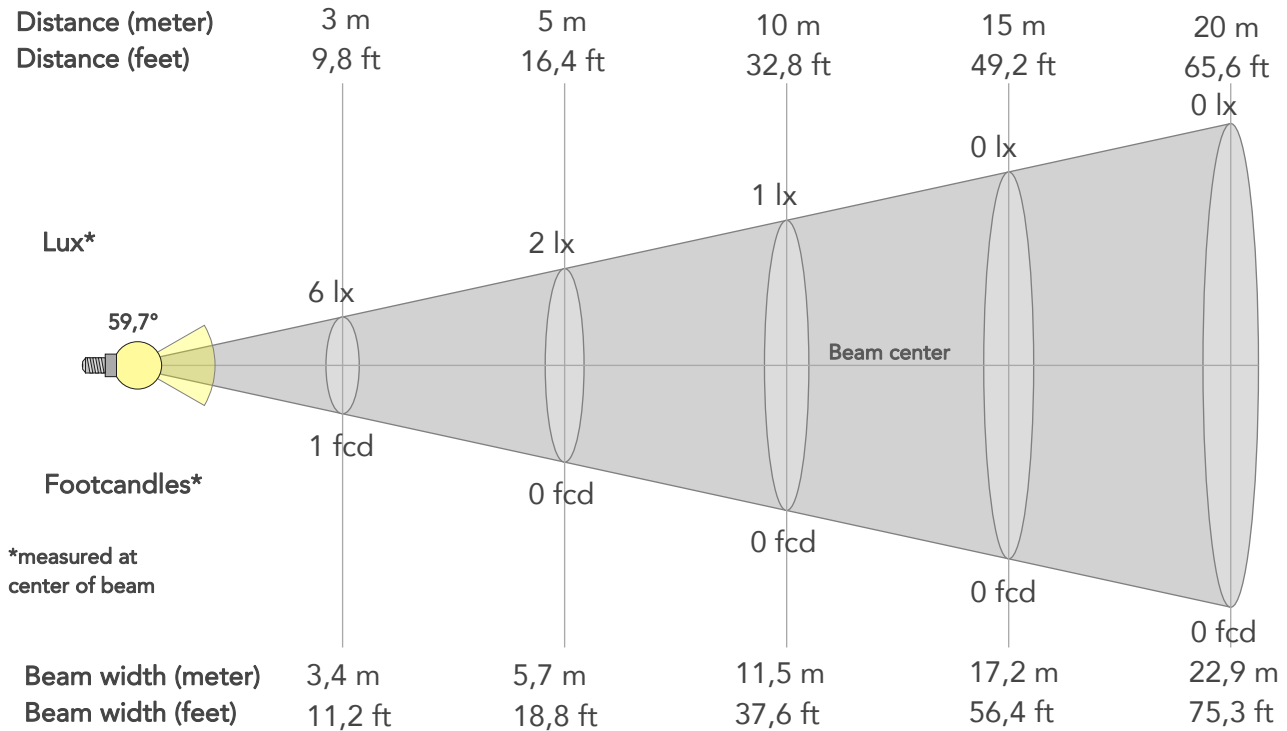
Spectra



BEAM DETAILS



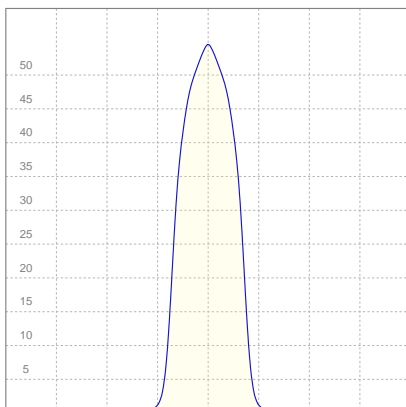
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 59,7° | 77,5° | 89,2° | 99,5% | 98,0% |



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

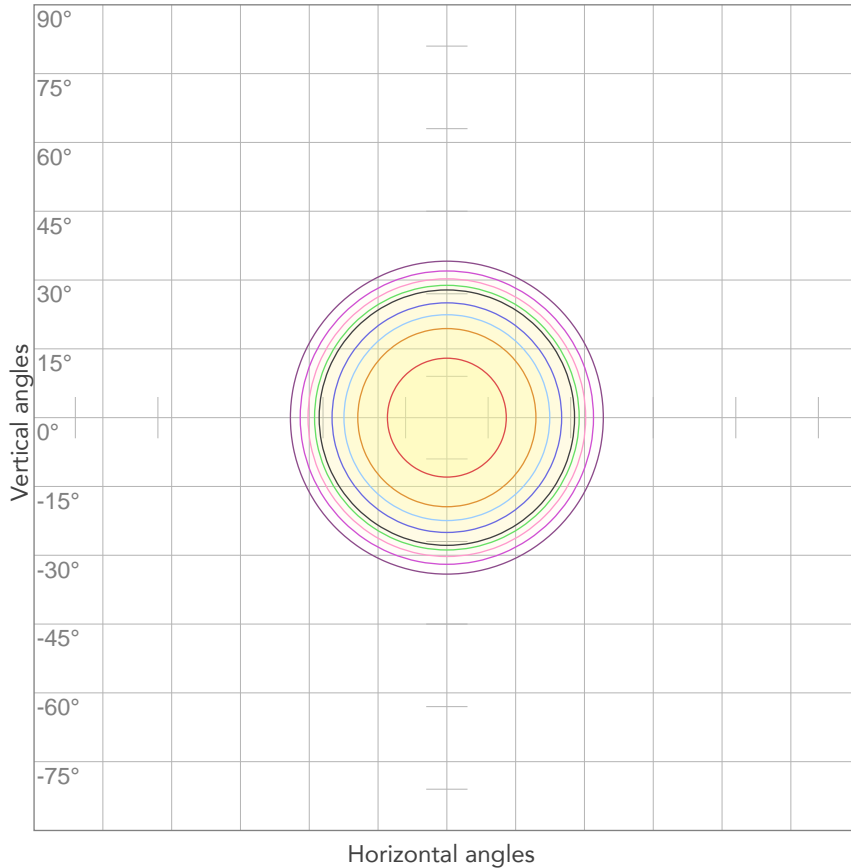


ELECTRICAL SPECIFICATIONS

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

| Power FC |
|----------|
| 0,88 |

ISO CANDELA DIAGRAM



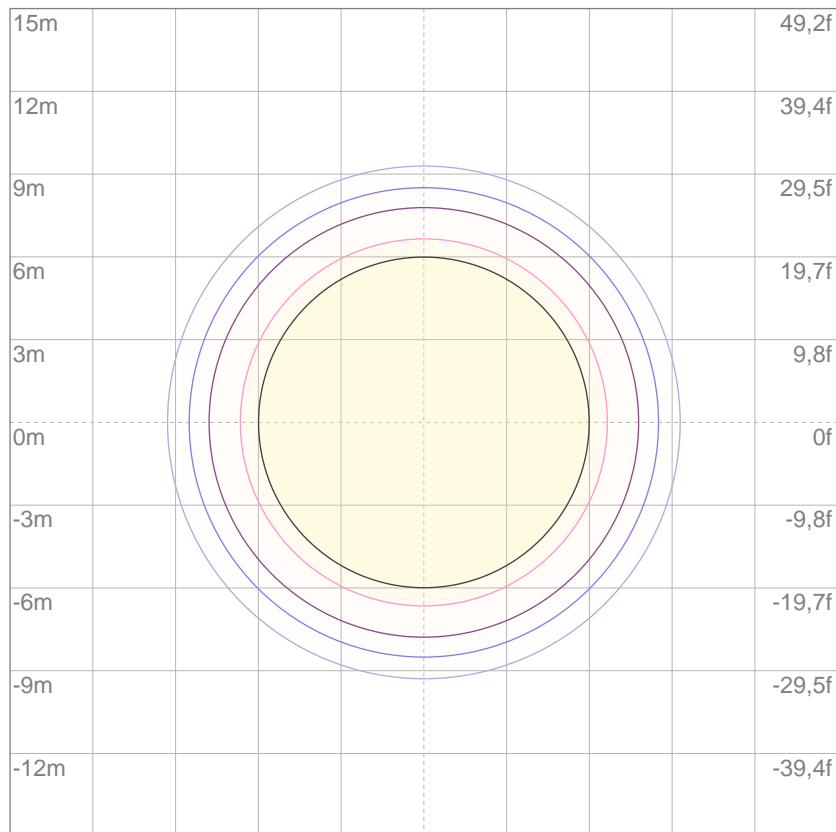
| | |
|-----|-------|
| 10% | 5 cd |
| 20% | 11 cd |
| 30% | 16 cd |
| 40% | 22 cd |
| 50% | 27 cd |
| 60% | 33 cd |
| 70% | 38 cd |
| 80% | 44 cd |

Conditions:

Number of c-planes: 2

Candela at center: 54 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

| | |
|-----|----------|
| 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.



Total lumen output:

34,1 lm

Peak candela output:

141 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

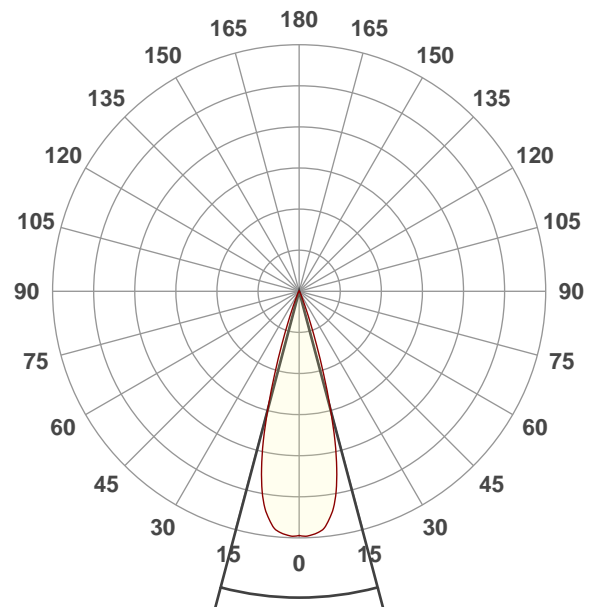
Blue

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:19:48

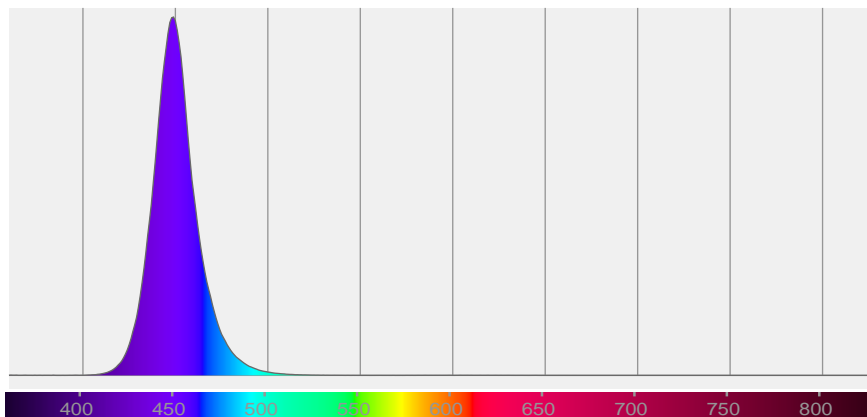


Beam angle 50%: 29,7°

Field angle 10%: 41,1°

Cut off angle 2.5%: 50,7°

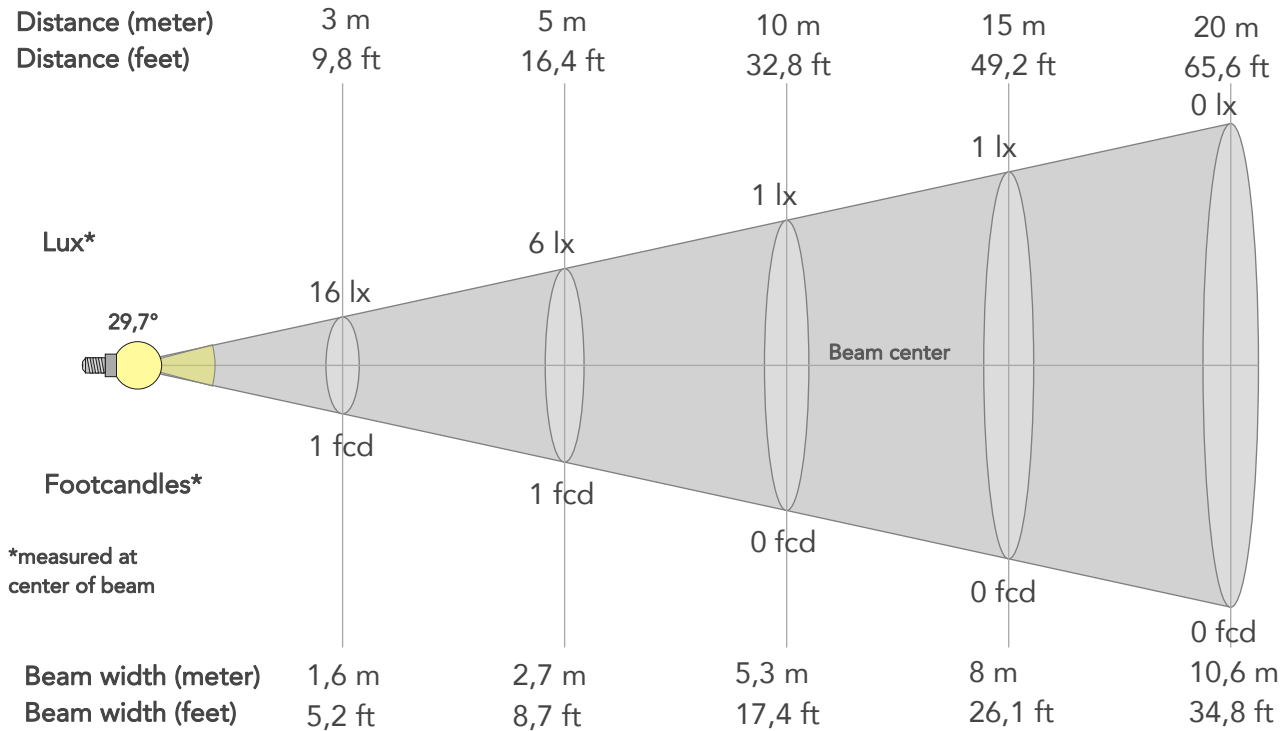
Spectra



BEAM DETAILS



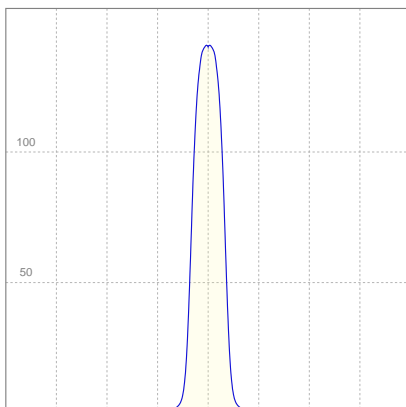
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 29,7° | 41,1° | 50,7° | 98,7% | 98,0% |



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

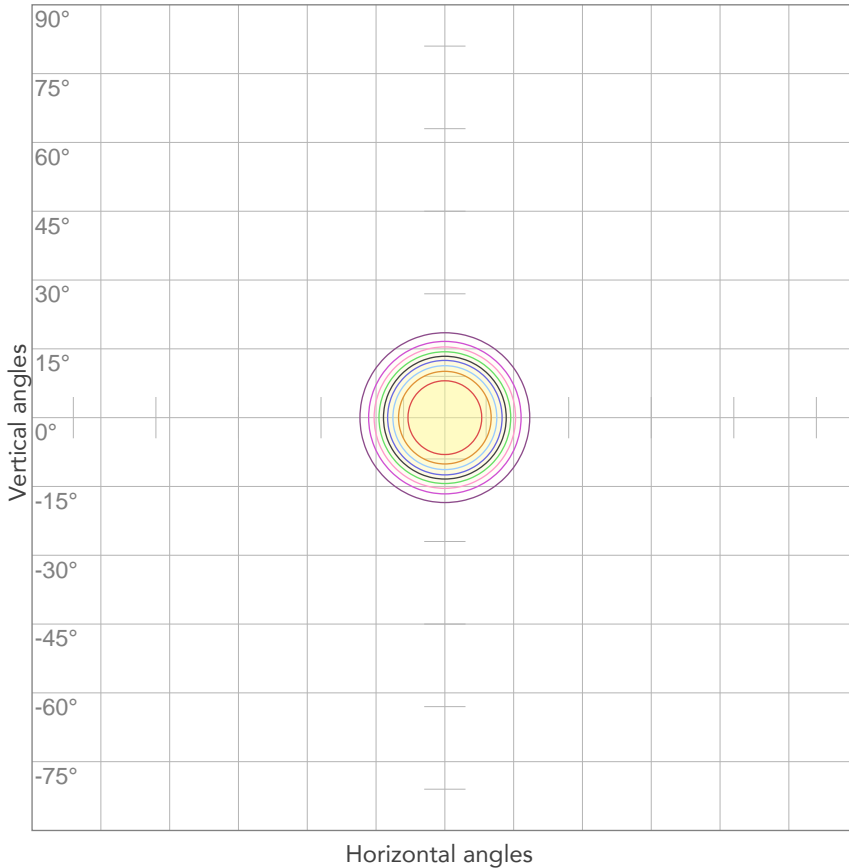


ELECTRICAL SPECIFICATIONS

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

| Power FC |
|----------|
| 0,88 |

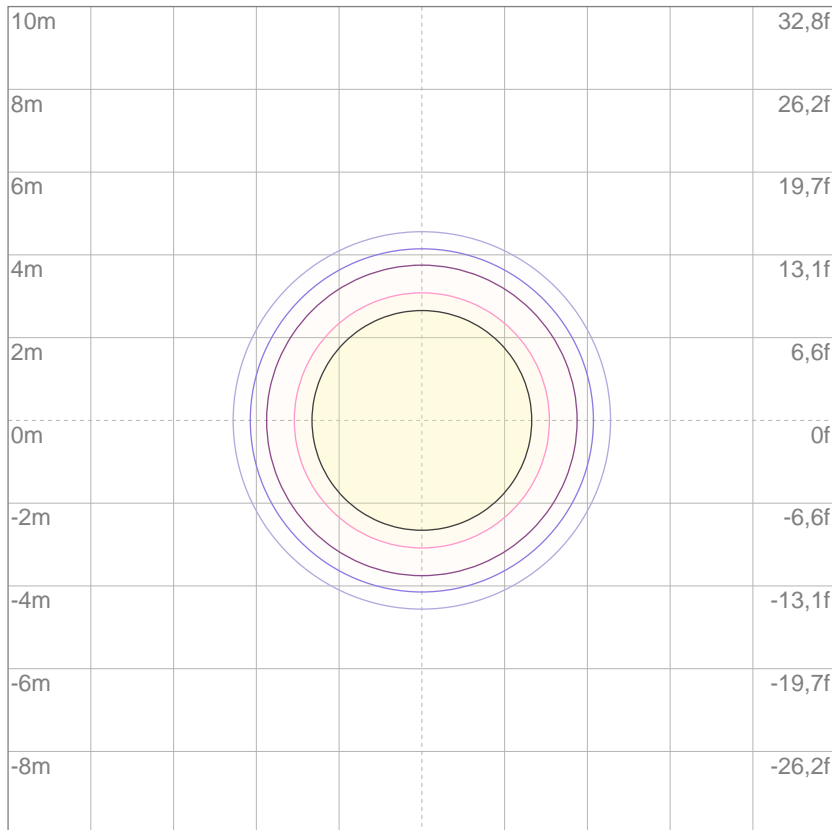
ISO CANDELA DIAGRAM



| | |
|-----|--------|
| 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



Mounting height: 10 meters (33 feet)

| | |
|-----|----------|
| 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.



Total lumen output:

279 lm

Peak candela output:

341 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

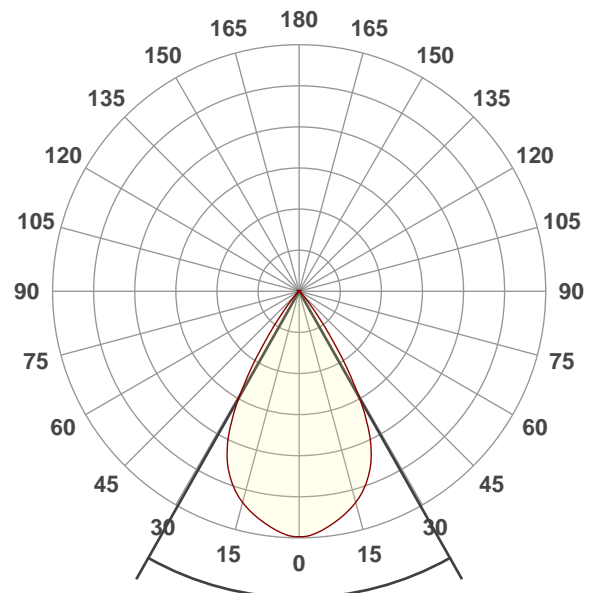
White

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:10:55

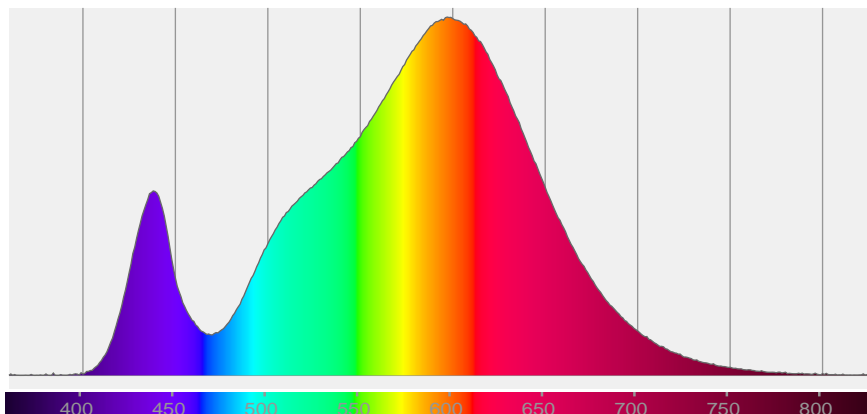


Beam angle 50%: 59°

Field angle 10%: 76,4°

Cut off angle 2.5%: 87,9°

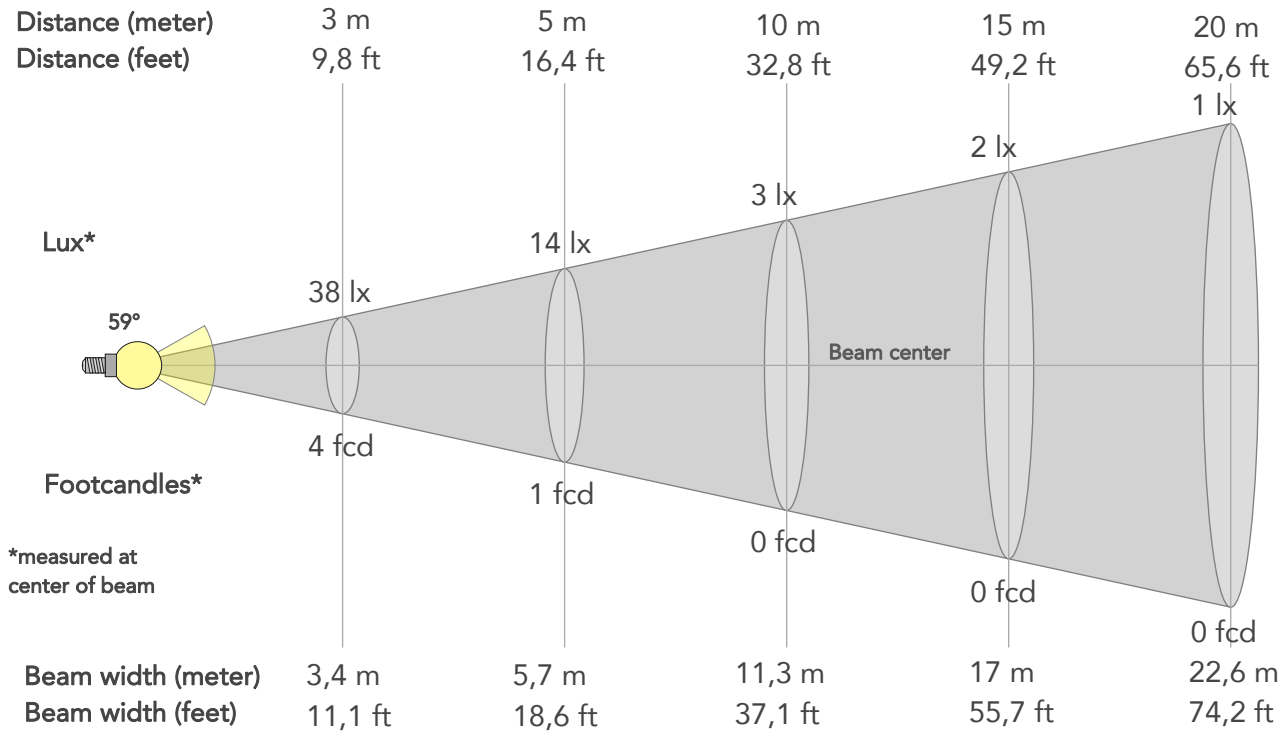
Spectra



BEAM DETAILS



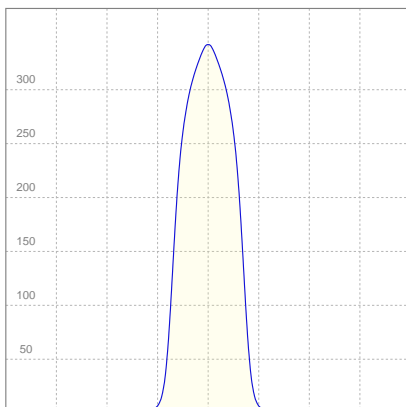
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 59° | 76,4° | 87,9° | 99,7% | 98,4% |



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

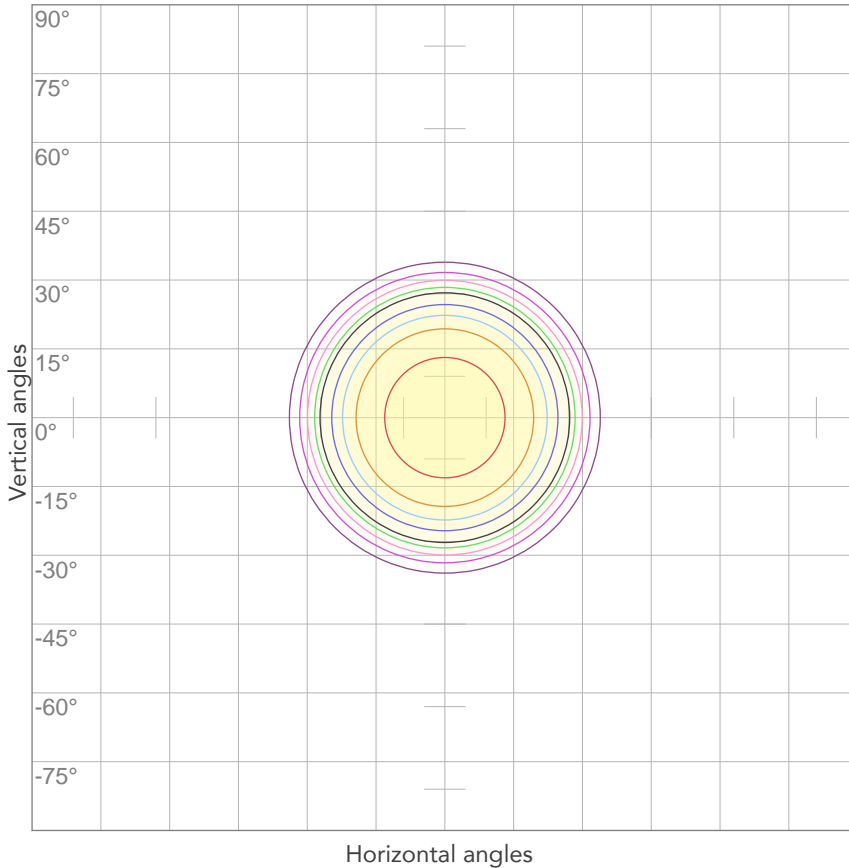


ELECTRICAL SPECIFICATIONS

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

| Power FC |
|----------|
| 0,89 |

ISO CANDELA DIAGRAM



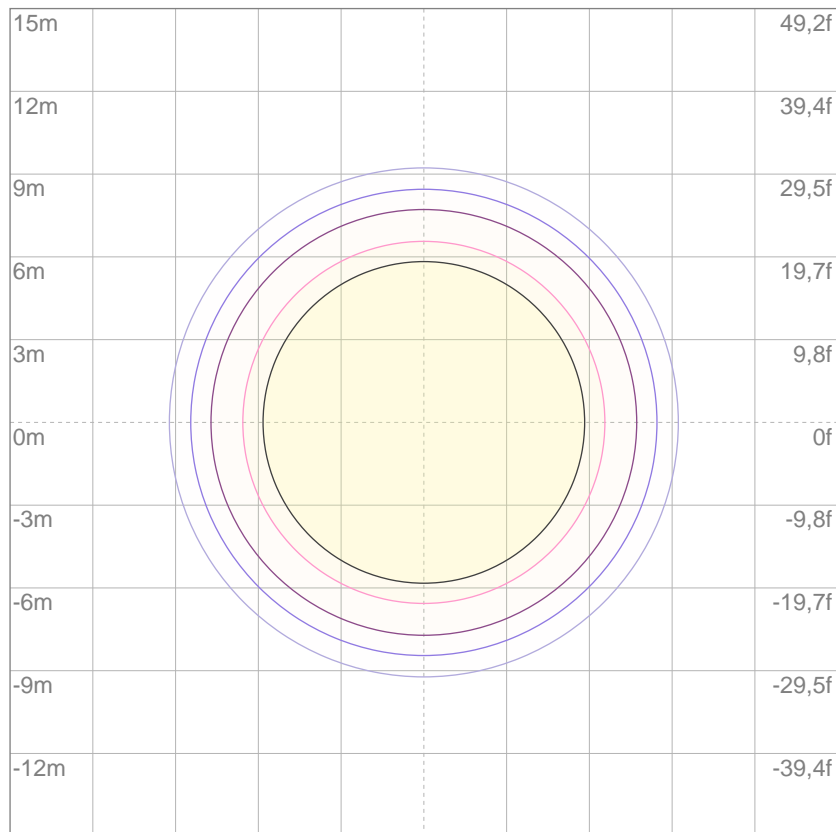
| | |
|-----|--------|
| 10% | 34 cd |
| 20% | 68 cd |
| 30% | 102 cd |
| 40% | 136 cd |
| 50% | 171 cd |
| 60% | 205 cd |
| 70% | 239 cd |
| 80% | 273 cd |

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.

Mounting height: 10 meters (33 feet)



Total lumen output:

213 lm

Peak candela output:

838 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

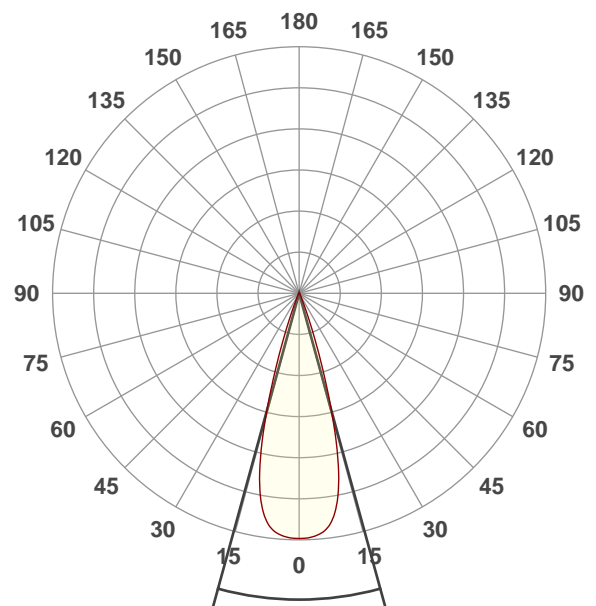
White

Operator:

Paolo Carvone

Date and time:

18/09/2020 15:22:39

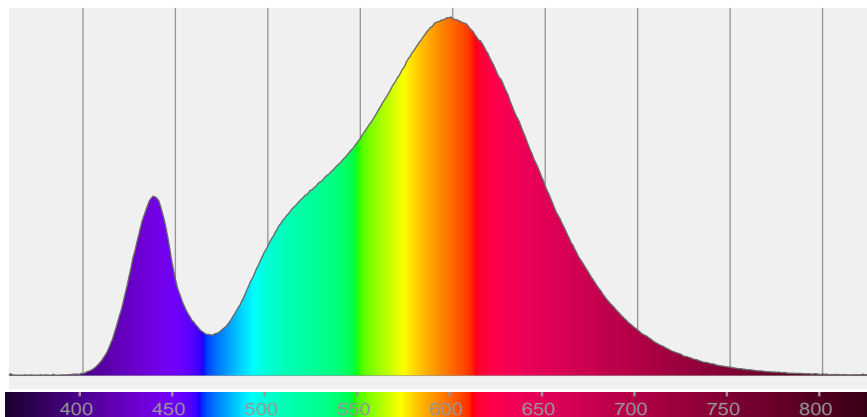


Beam angle 50%: 30,7°

Field angle 10%: 42°

Cut off angle 2.5%: 51,8°

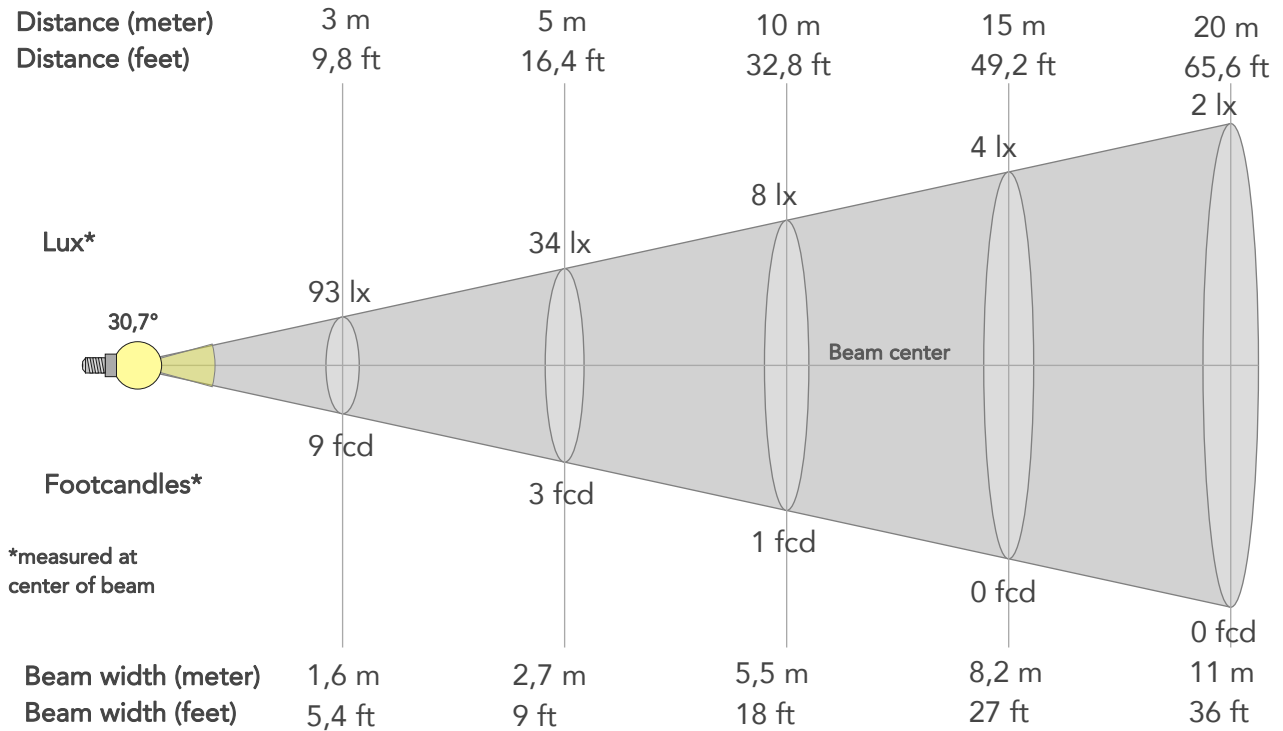
Spectra



BEAM DETAILS



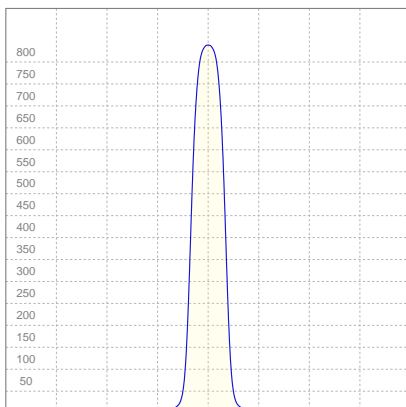
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 30,7° | 42° | 51,8° | 99,7% | 99,2% |



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

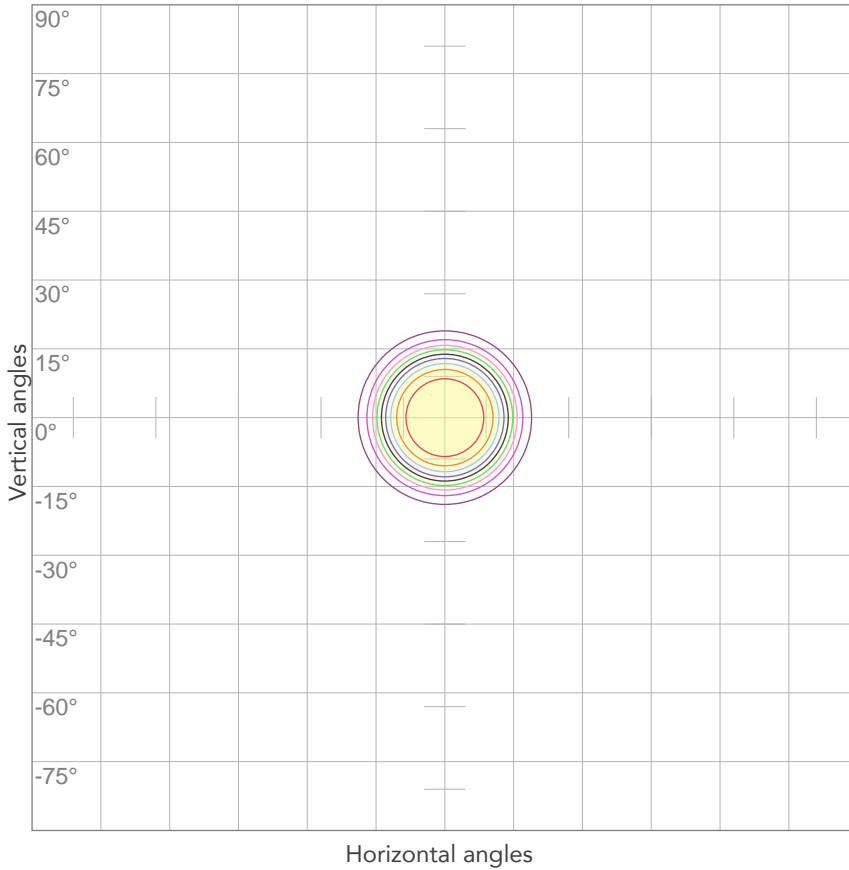


ELECTRICAL SPECIFICATIONS

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

| |
|----------|
| Power FC |
| 0,89 |

ISO CANDELA DIAGRAM



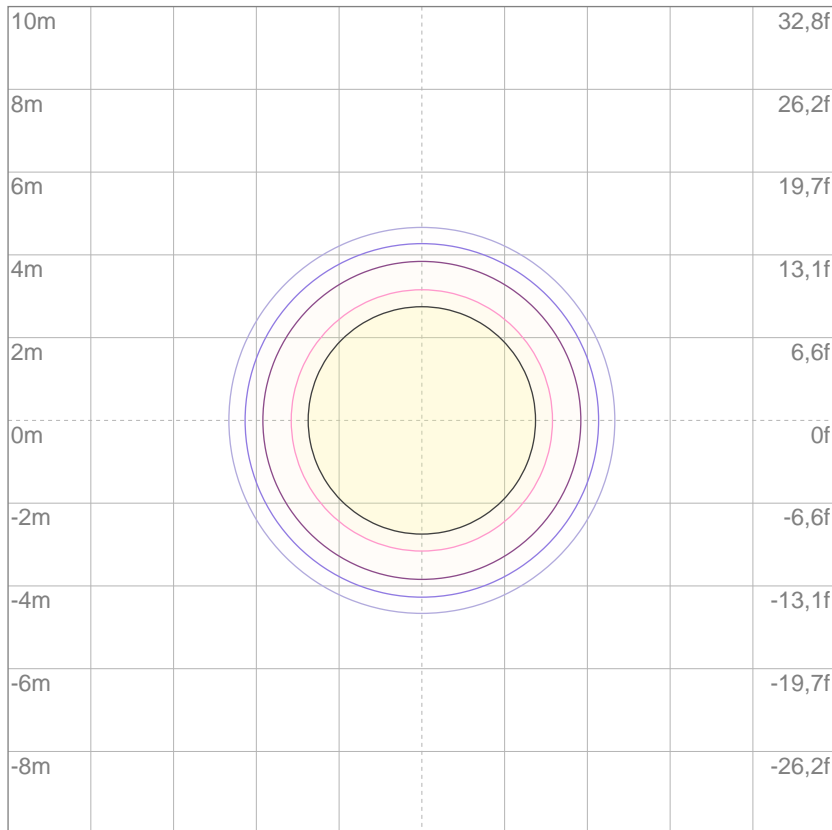
| | |
|-----|--------|
| 10% | 84 cd |
| 20% | 168 cd |
| 30% | 251 cd |
| 40% | 335 cd |
| 50% | 419 cd |
| 60% | 503 cd |
| 70% | 587 cd |
| 80% | 671 cd |

Conditions:

Number of c-planes: 2

Candela at center: 838 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 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:

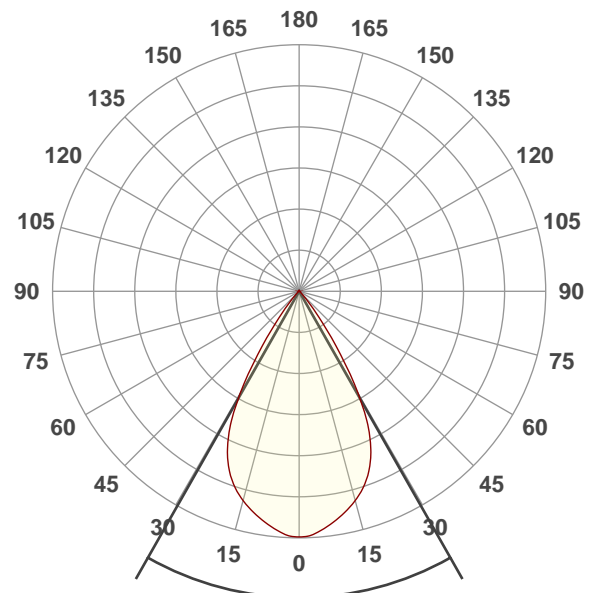
2800K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:49:55

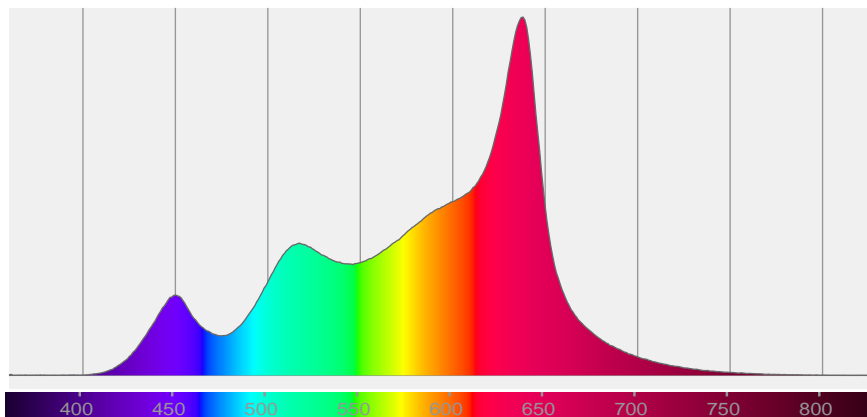


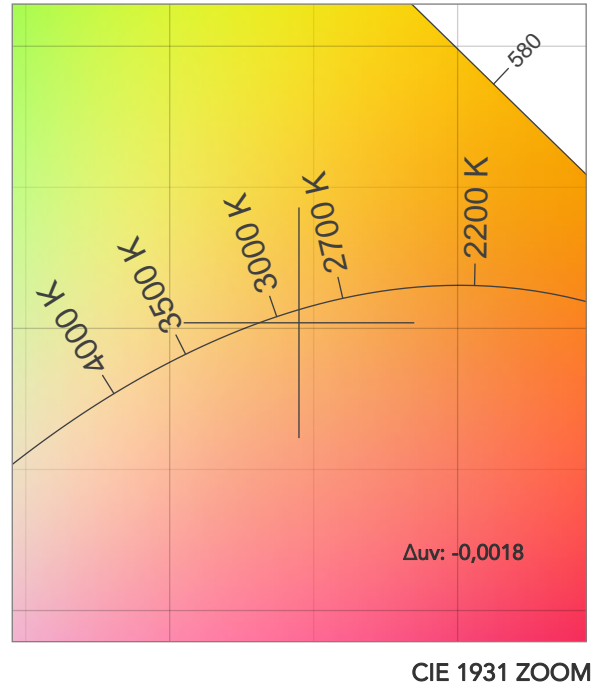
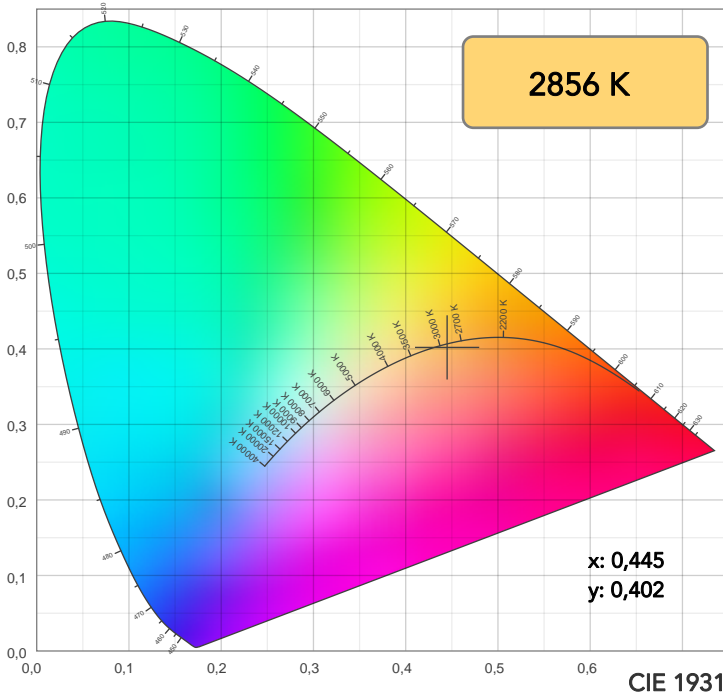
Beam angle 50%: 59,2°

Field angle 10%: 77,6°

Cut off angle 2.5%: 89,2°

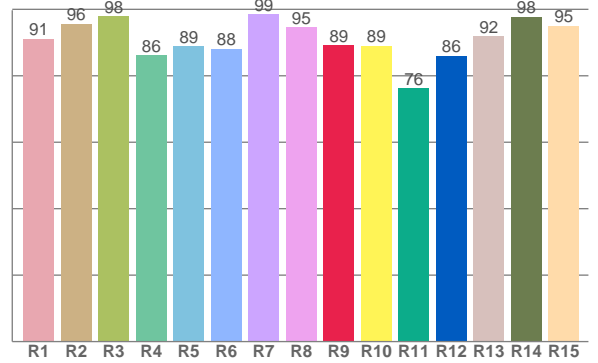
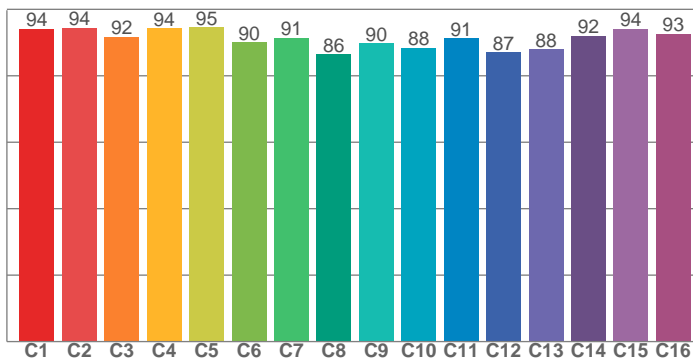
Spectra





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 |

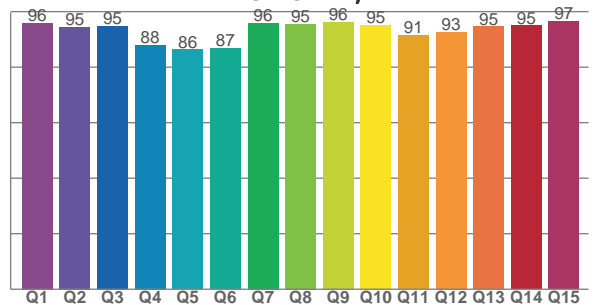
TM30 C values, 16 binned values out of total of 99 C values

| 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

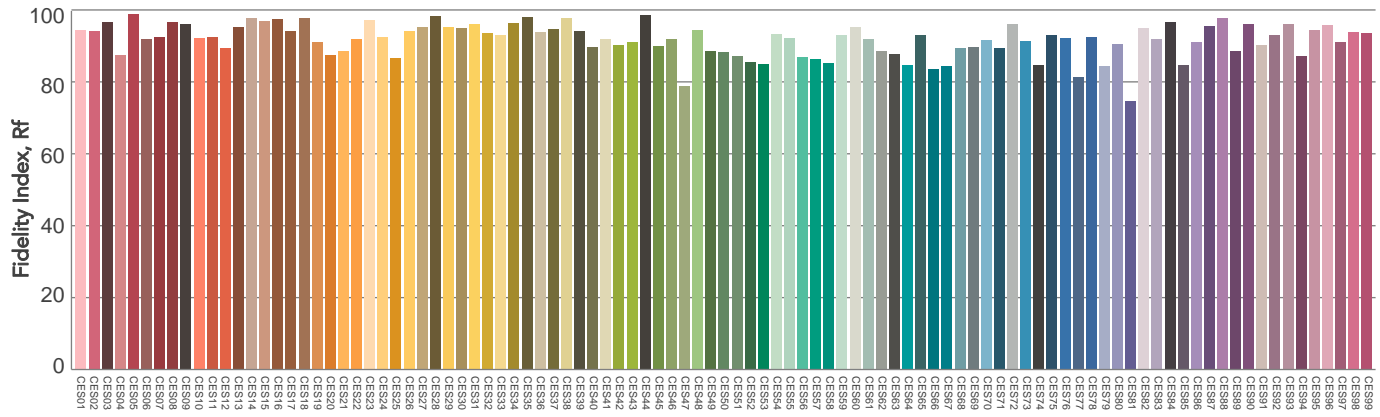
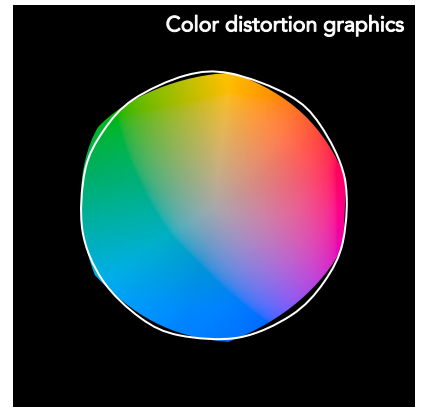
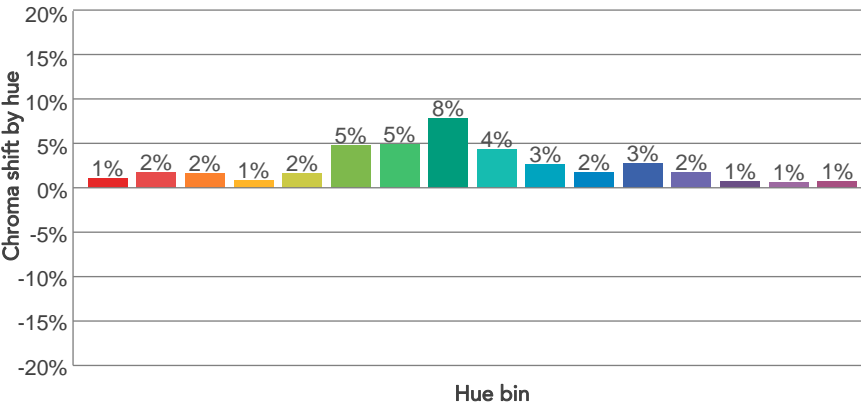
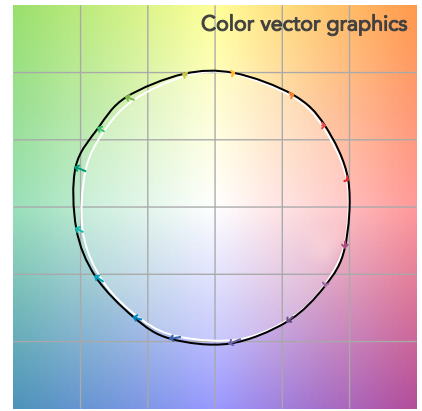
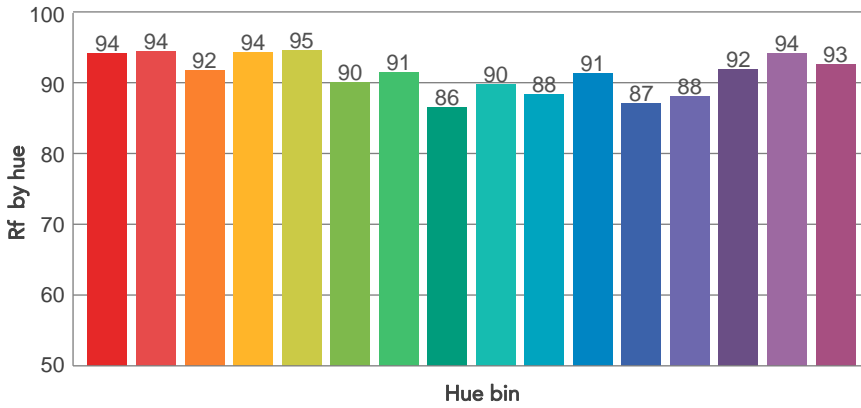
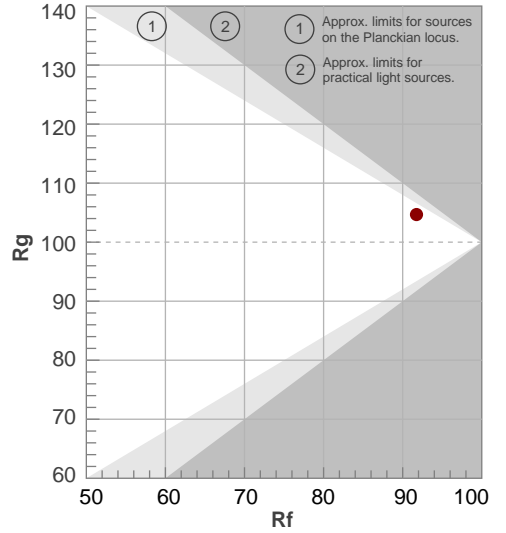
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| 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

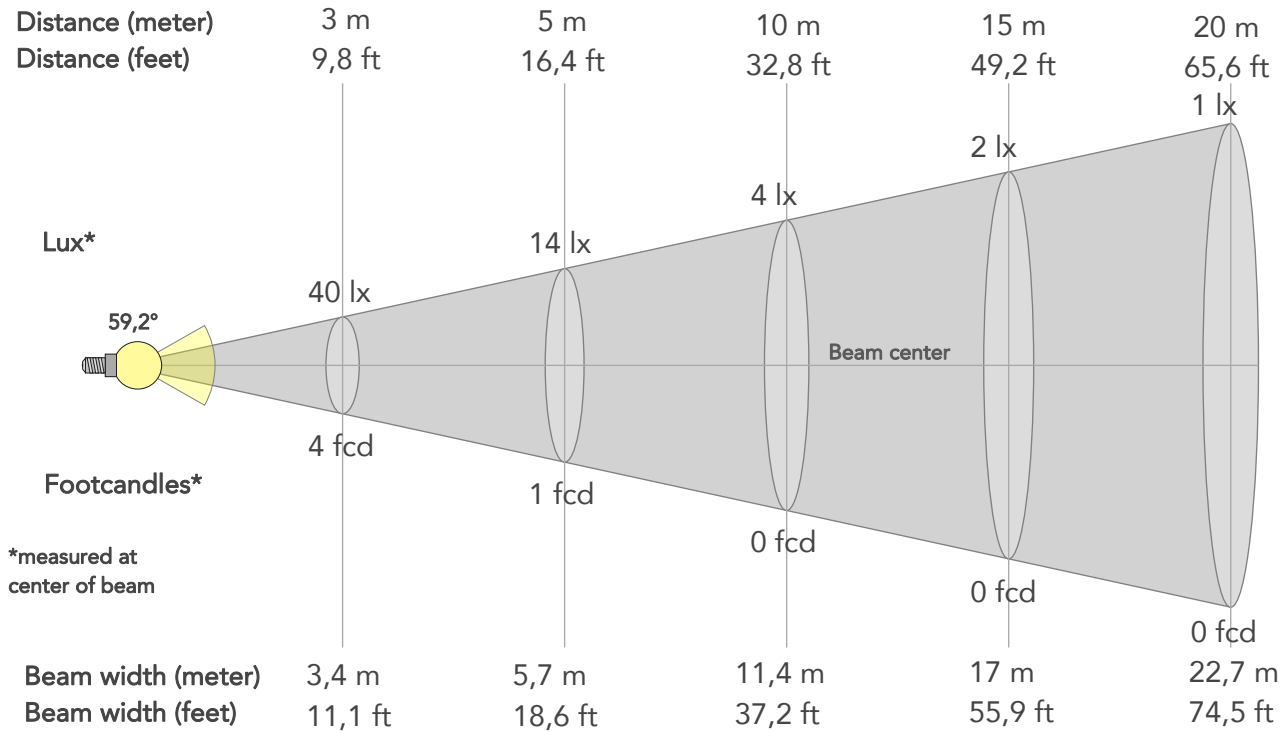
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 1% | -1% |
| 2 | 94 | 2% | -1% |
| 3 | 92 | 2% | -1% |
| 4 | 94 | 1% | -2% |
| 5 | 95 | 2% | 2% |
| 6 | 90 | 5% | 4% |
| 7 | 91 | 5% | 0% |
| 8 | 86 | 8% | -2% |
| 9 | 90 | 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% |



BEAM DETAILS



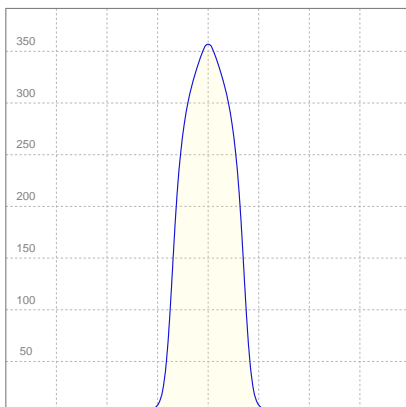
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 59,2° | 77,6° | 89,2° | 99,7% | 98,3% |



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 |

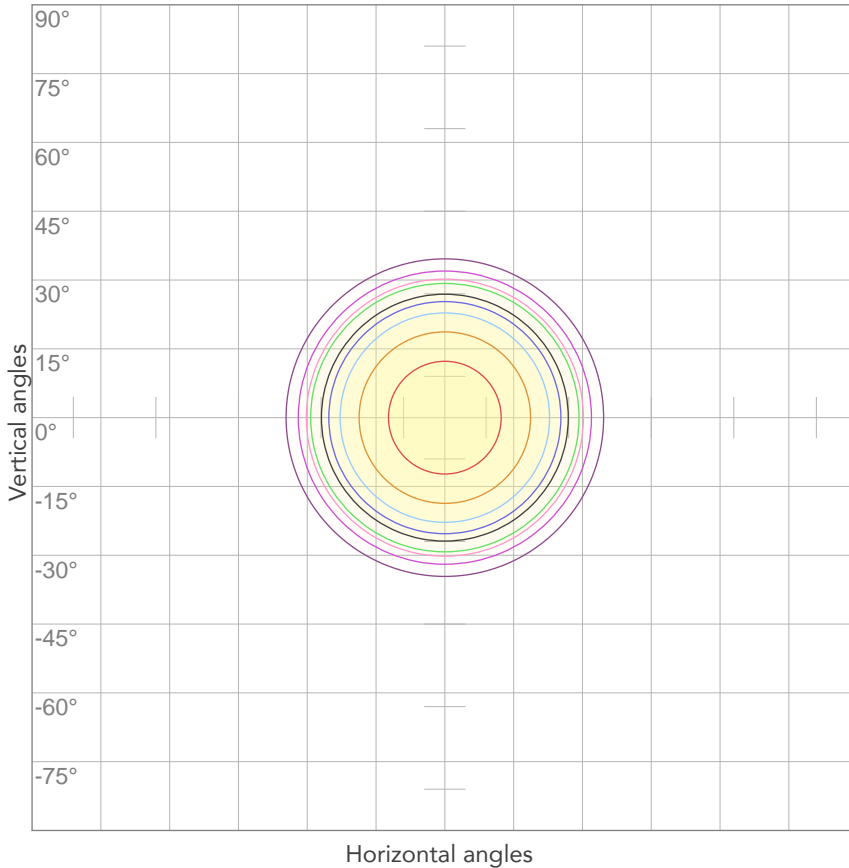
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



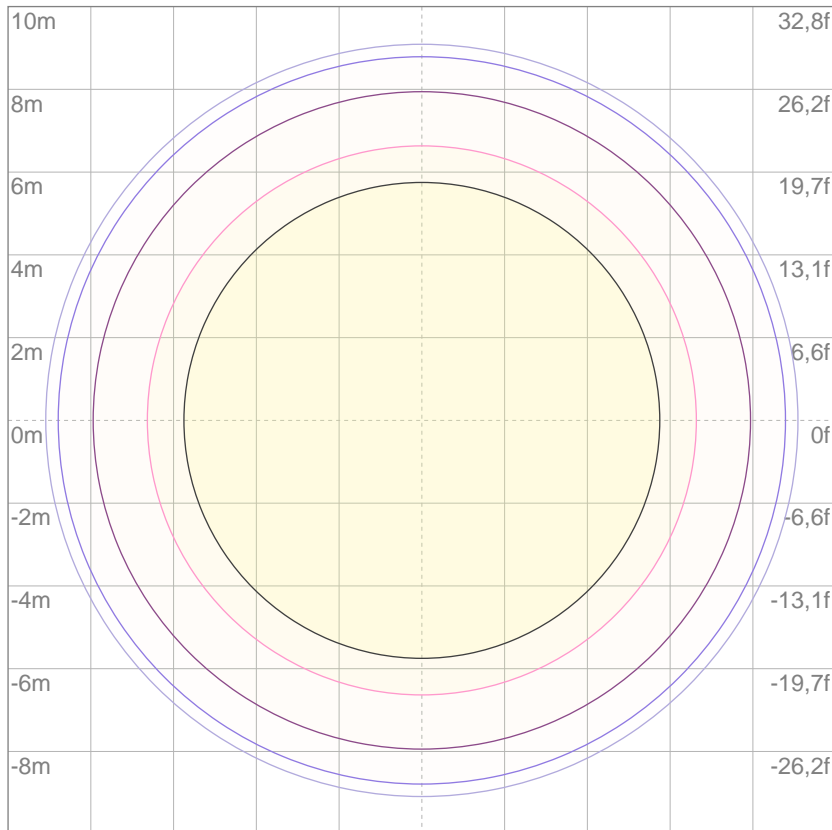
| | |
|-----|--------|
| 10% | 36 cd |
| 20% | 71 cd |
| 30% | 107 cd |
| 40% | 142 cd |
| 50% | 178 cd |
| 60% | 214 cd |
| 70% | 249 cd |
| 80% | 285 cd |

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

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

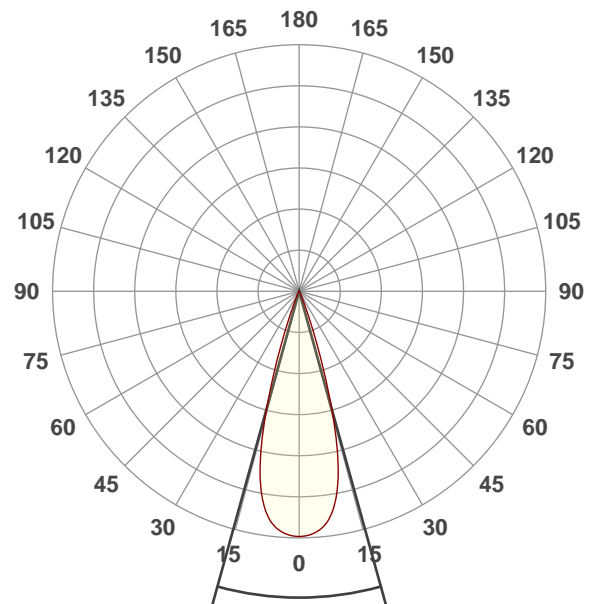
2800K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:38:35

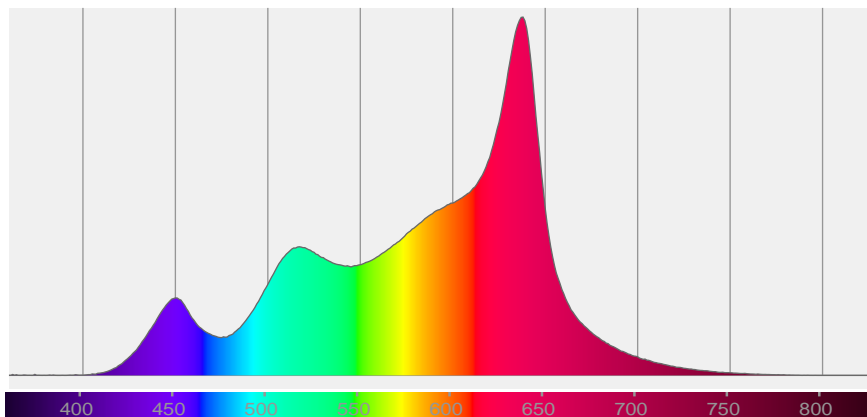


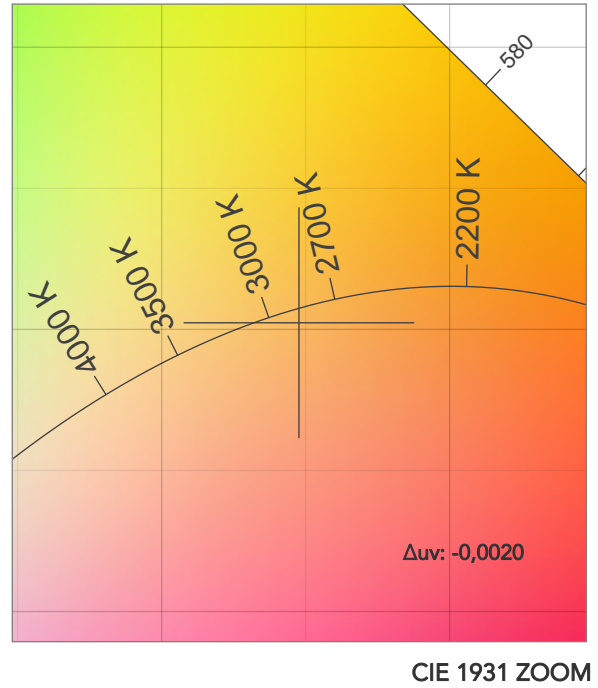
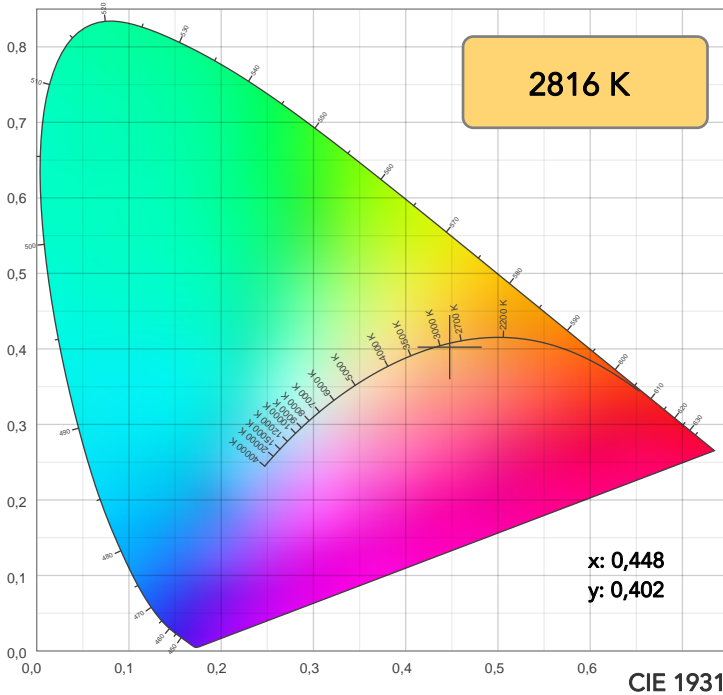
Beam angle 50%: 30,9°

Field angle 10%: 42,1°

Cut off angle 2.5%: 50,8°

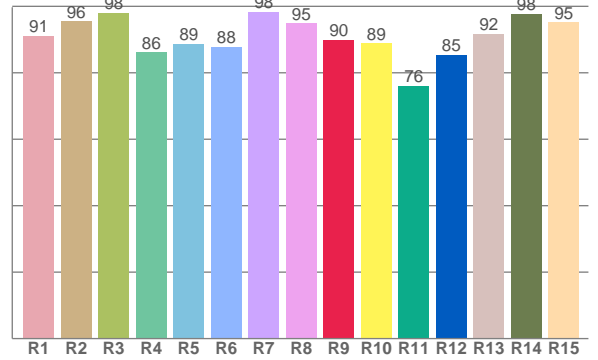
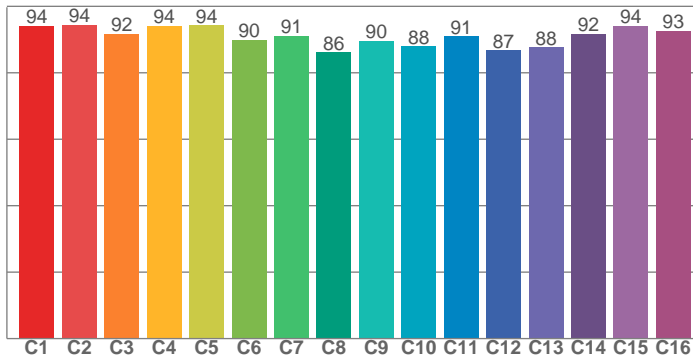
Spectra





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 |

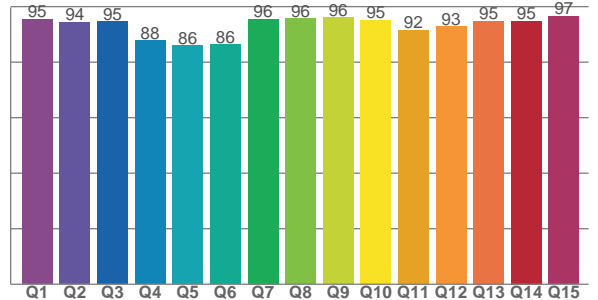
TM30 C values, 16 binned values out of total of 99 C values

| 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

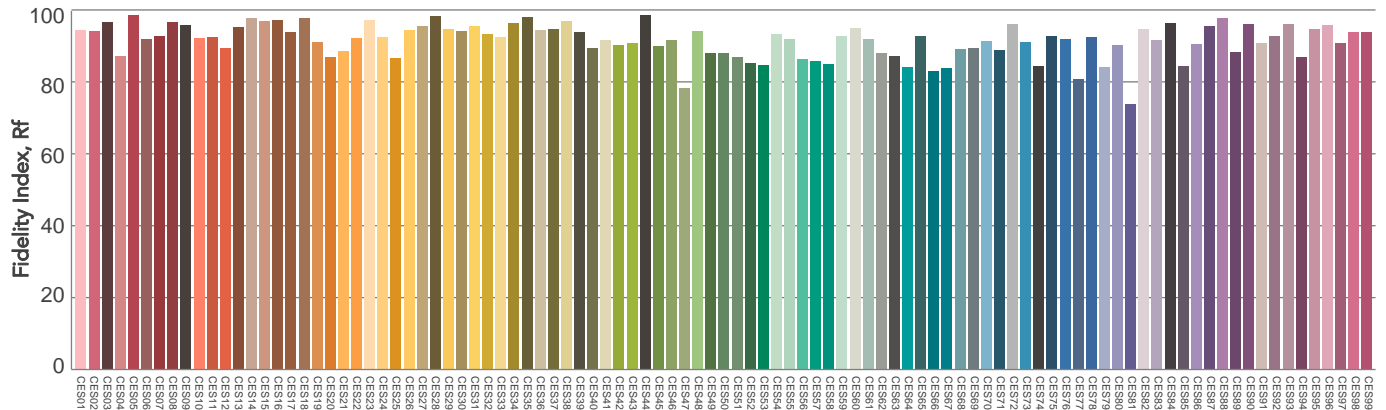
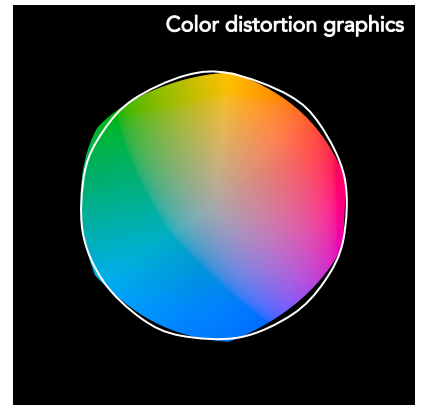
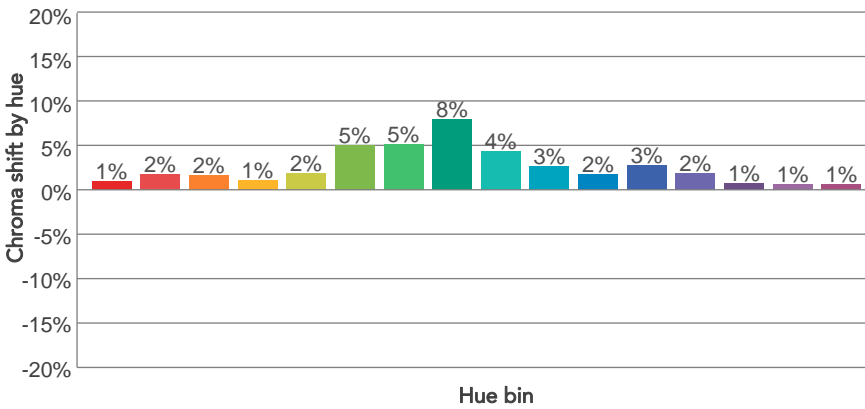
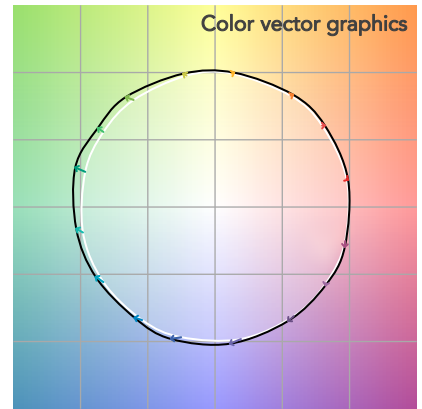
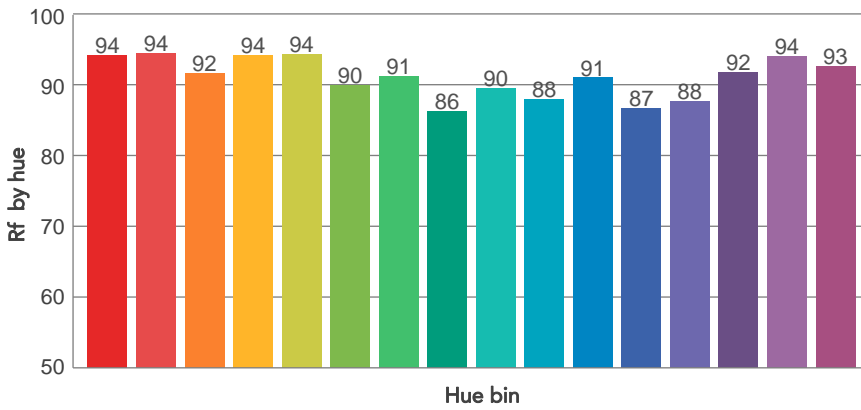
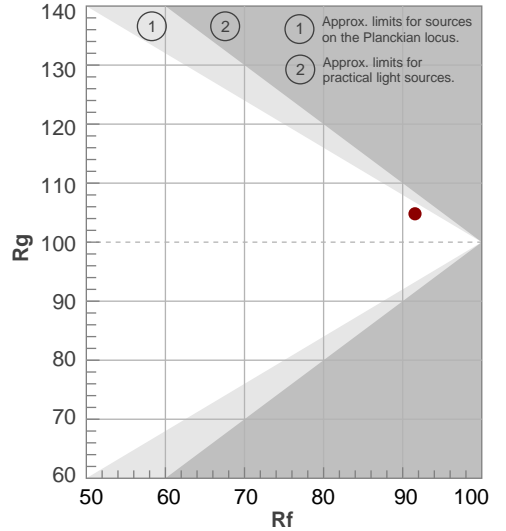
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| 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% |

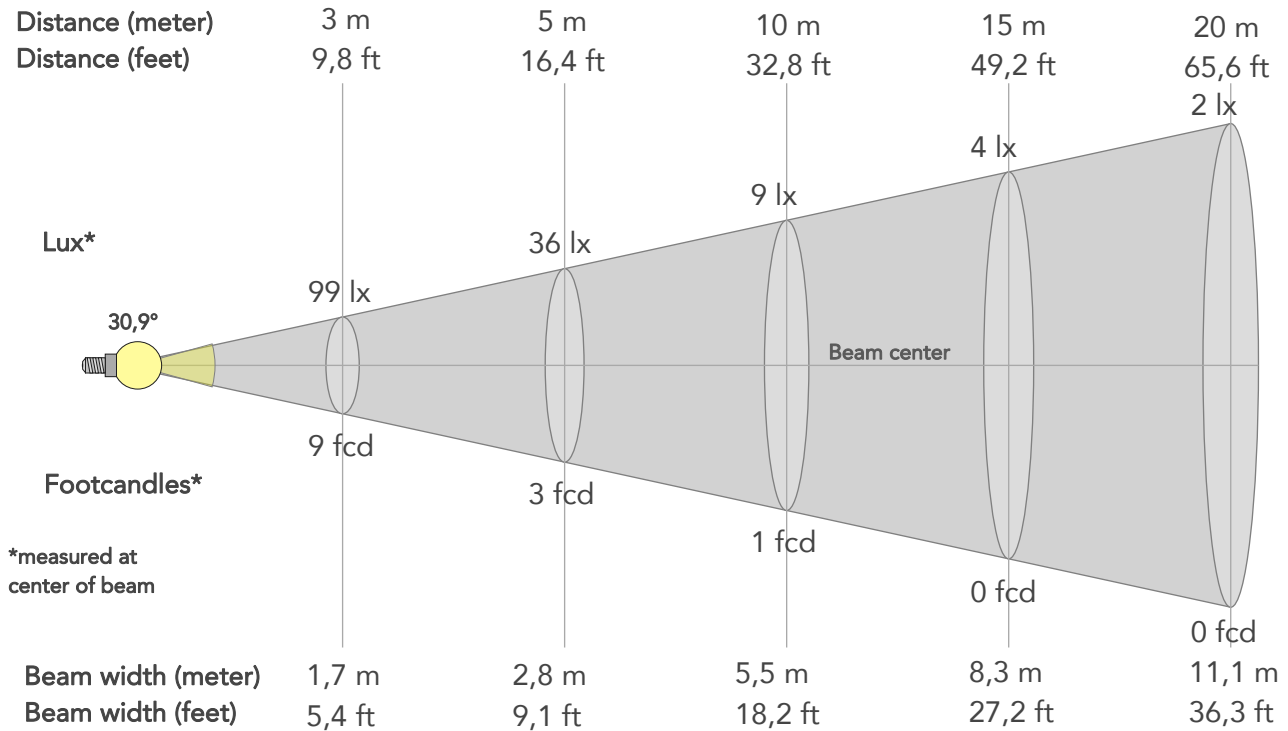


Color Evaluation Sample

BEAM DETAILS



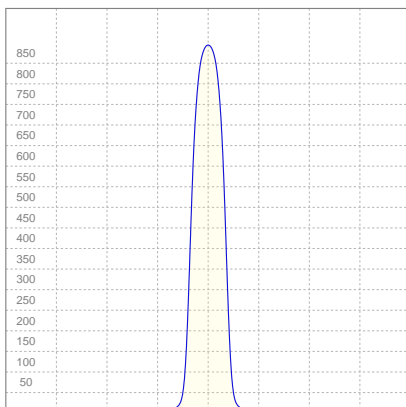
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 30,9° | 42,1° | 50,8° | 100,0% | 99,9% |



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 |

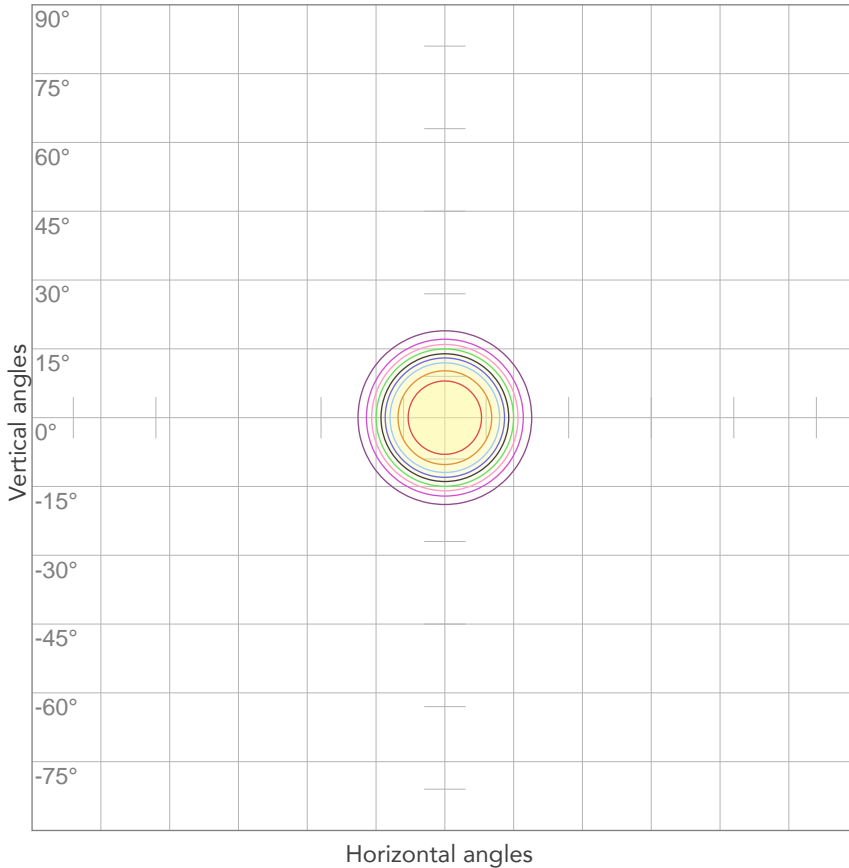
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM

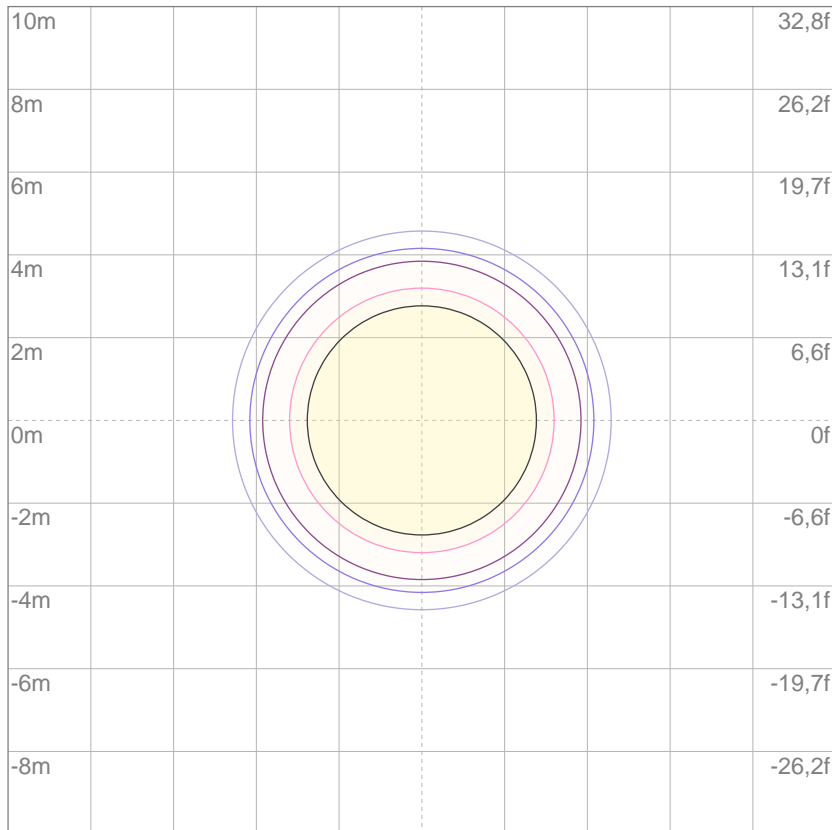


| | |
|-----|--------|
| 10% | 89 cd |
| 20% | 179 cd |
| 30% | 268 cd |
| 40% | 357 cd |
| 50% | 447 cd |
| 60% | 536 cd |
| 70% | 626 cd |
| 80% | 715 cd |

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

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

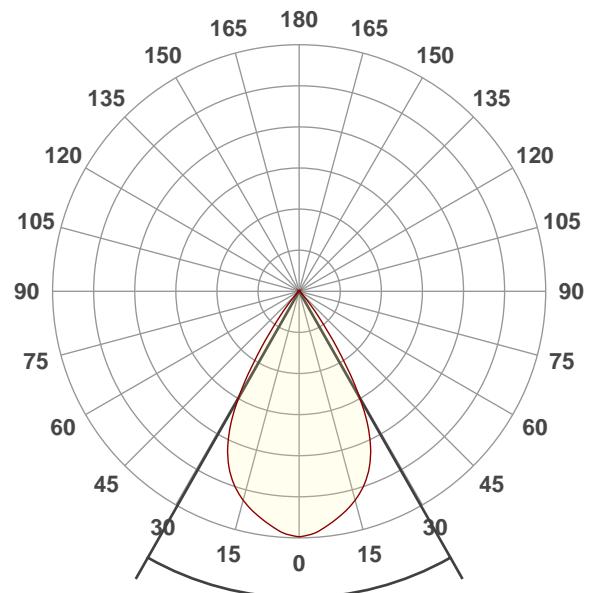
3200K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:51:27

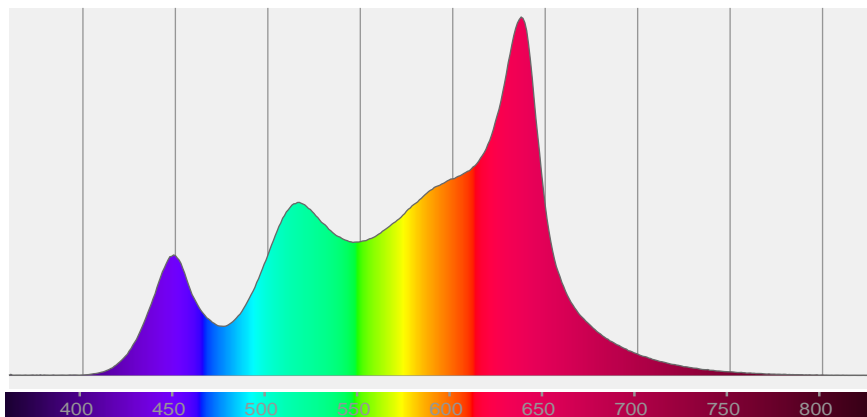


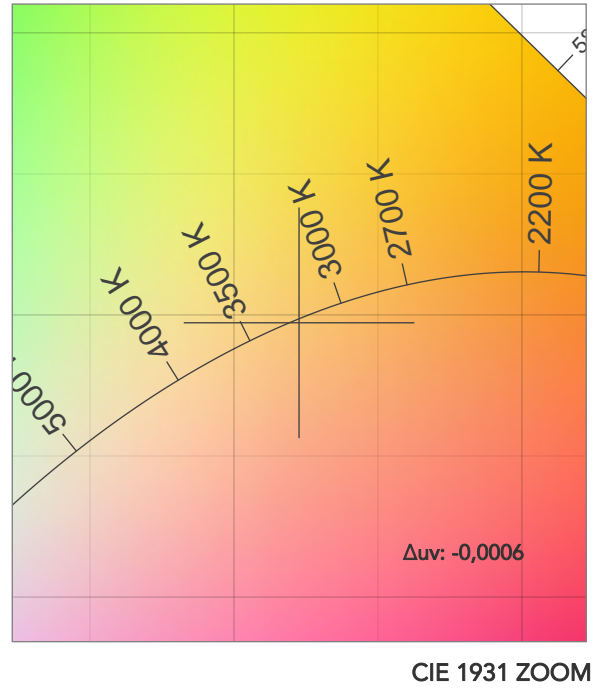
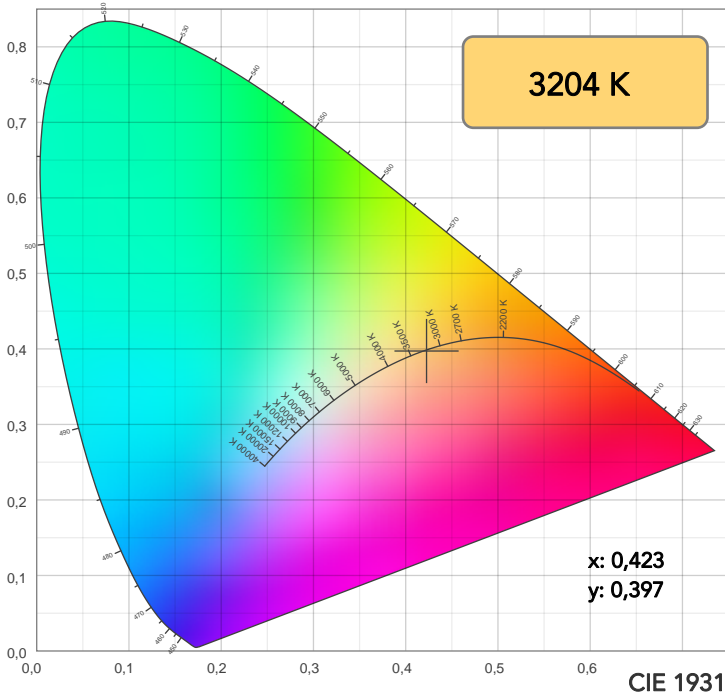
Beam angle 50%: 59,2°

Field angle 10%: 77,5°

Cut off angle 2.5%: 89,6°

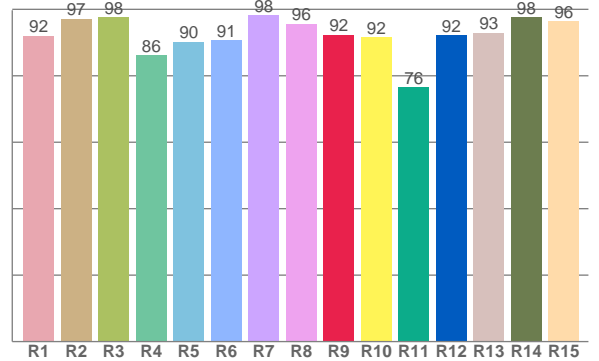
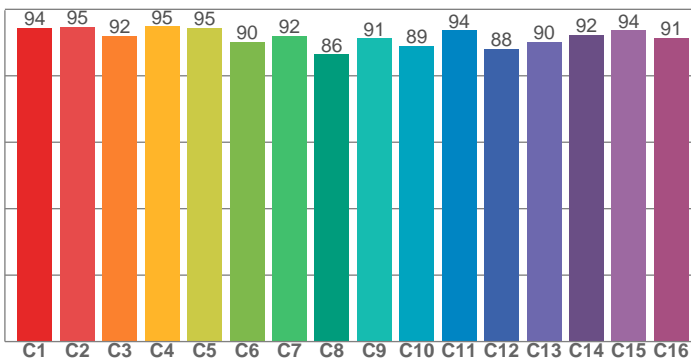
Spectra





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 |

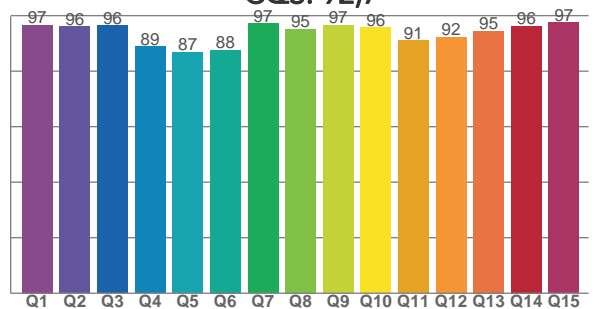
TM30 C values, 16 binned values out of total of 99 C values

| 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 |

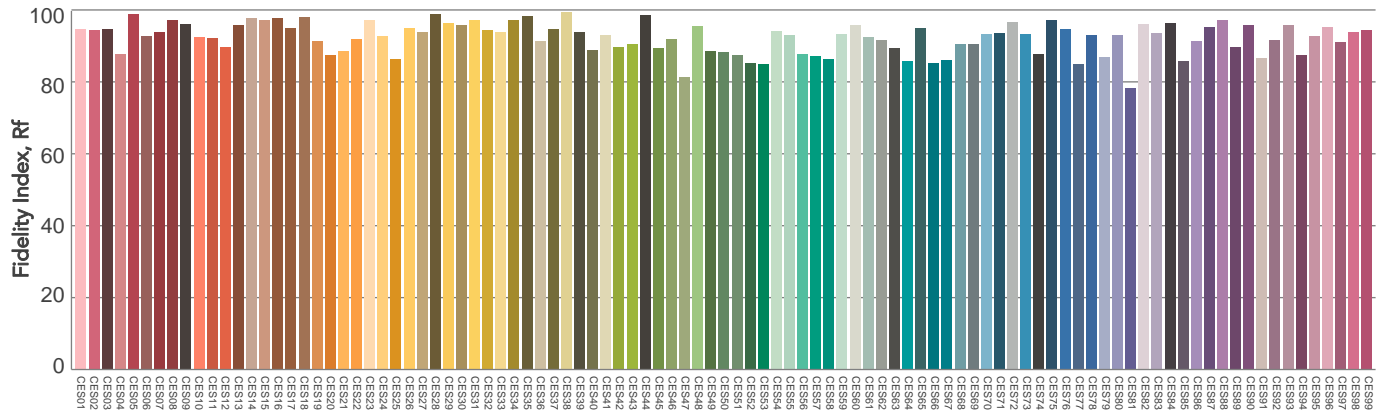
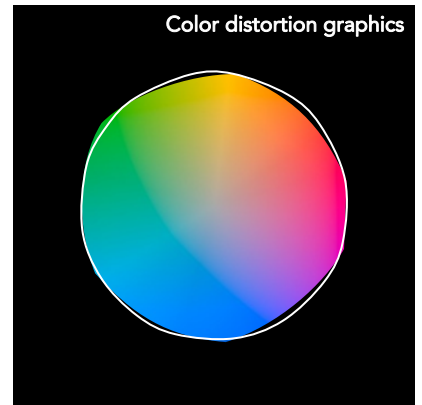
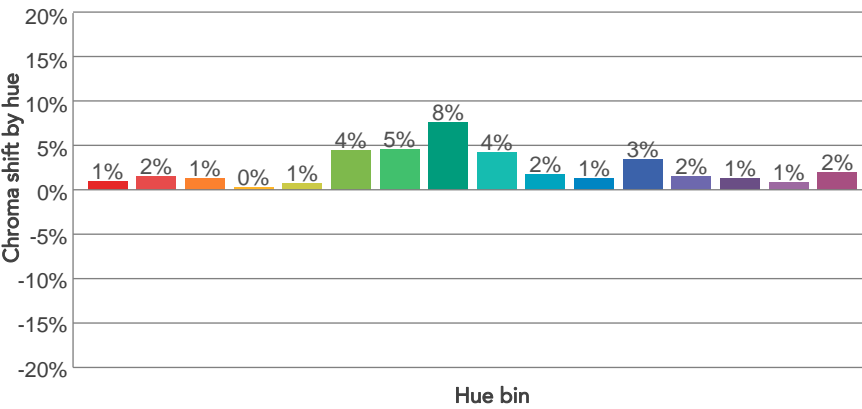
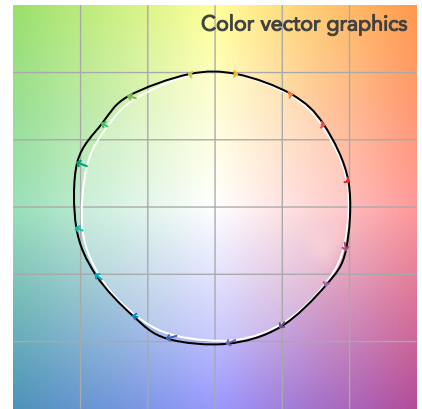
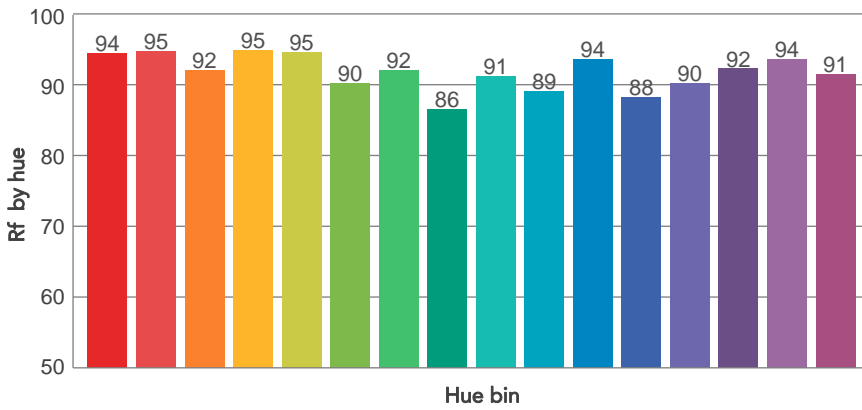
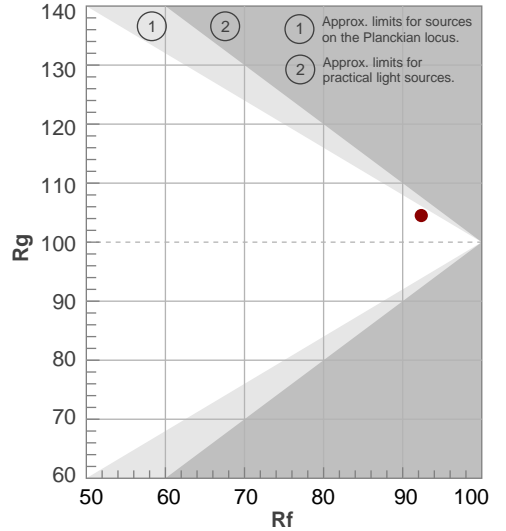
TM30 DETAILS



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% |

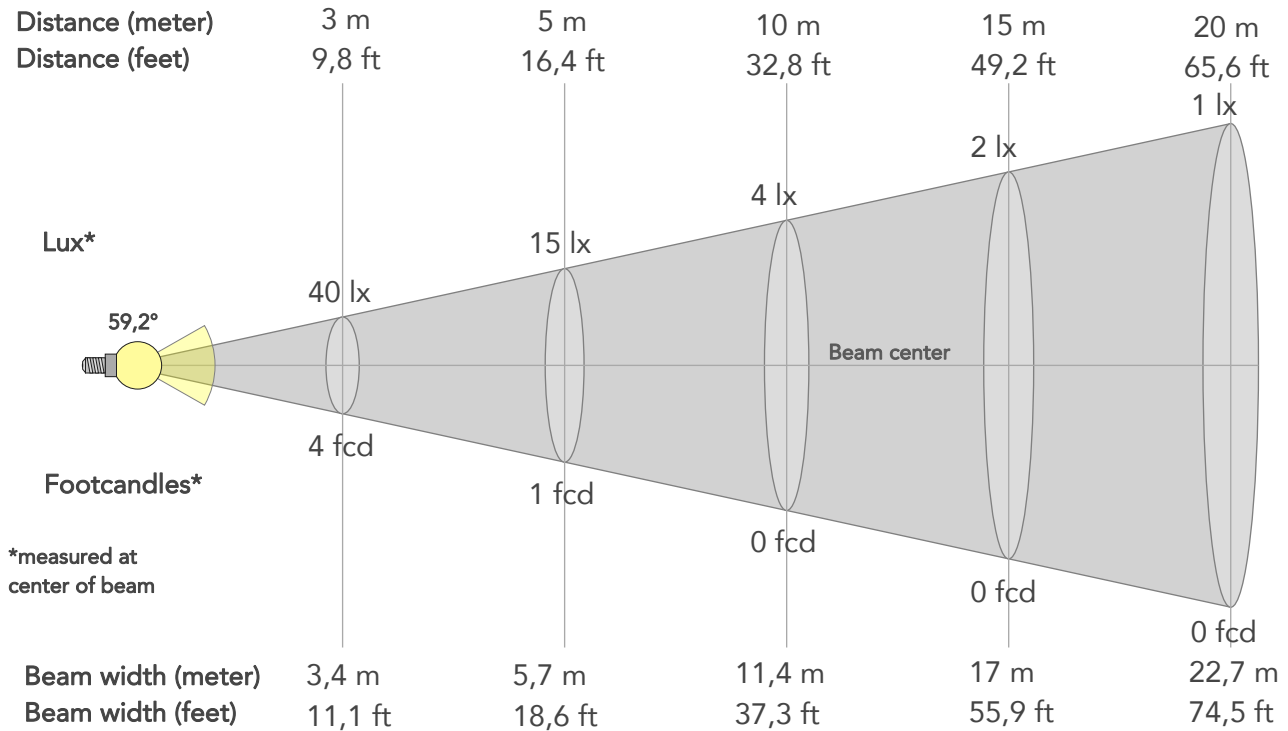


Color Evaluation Sample

BEAM DETAILS



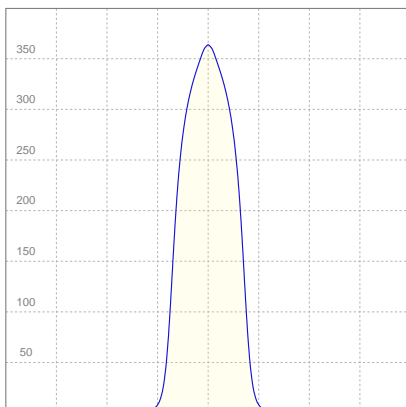
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 59,2° | 77,5° | 89,6° | 99,6% | 98,2% |



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 |

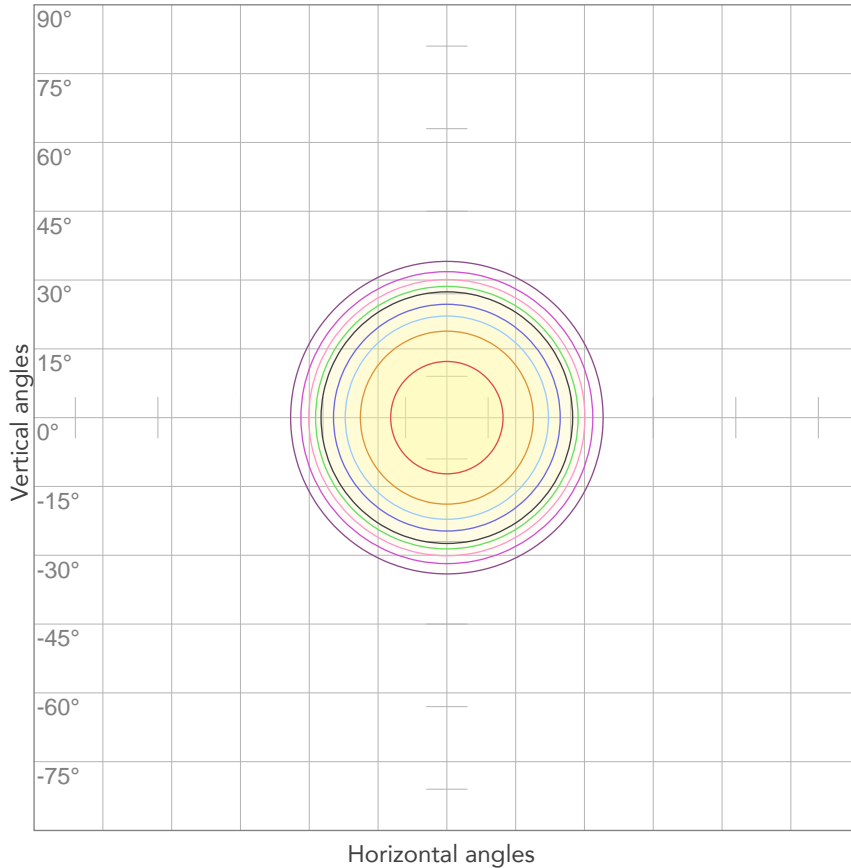
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



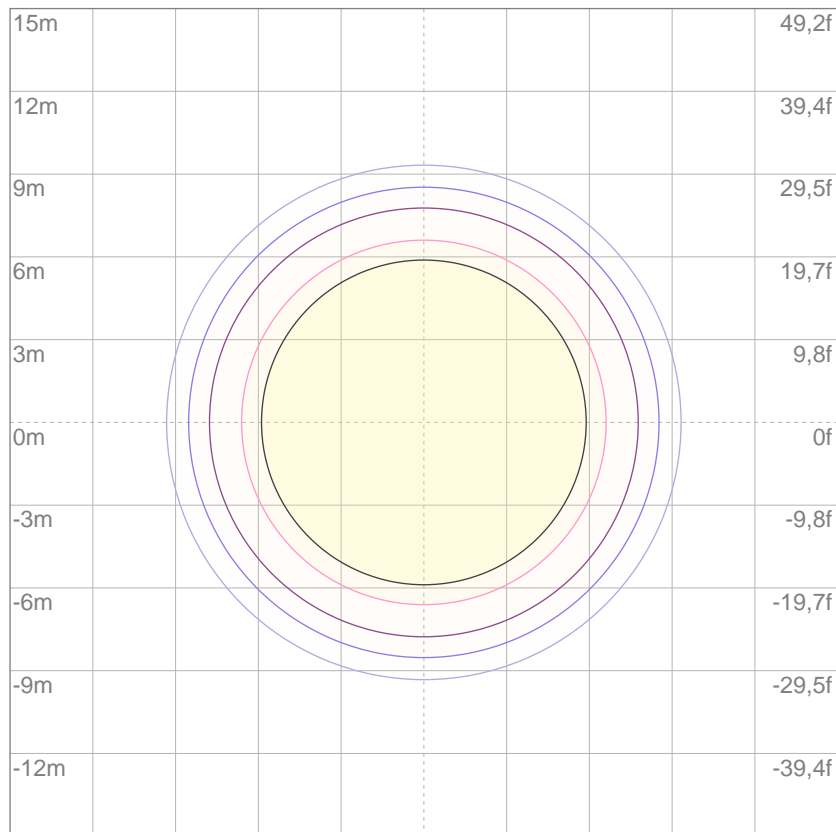
| | |
|-----|--------|
| 10% | 36 cd |
| 20% | 73 cd |
| 30% | 109 cd |
| 40% | 145 cd |
| 50% | 182 cd |
| 60% | 218 cd |
| 70% | 254 cd |
| 80% | 291 cd |

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

MEASURAMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

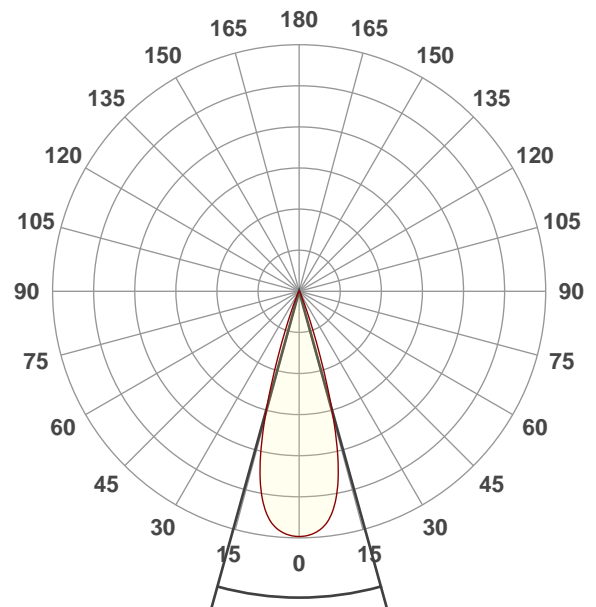
3200K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:40:45

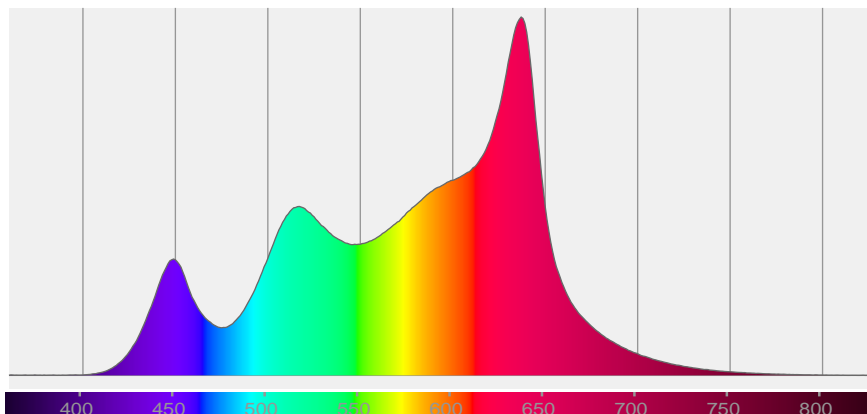


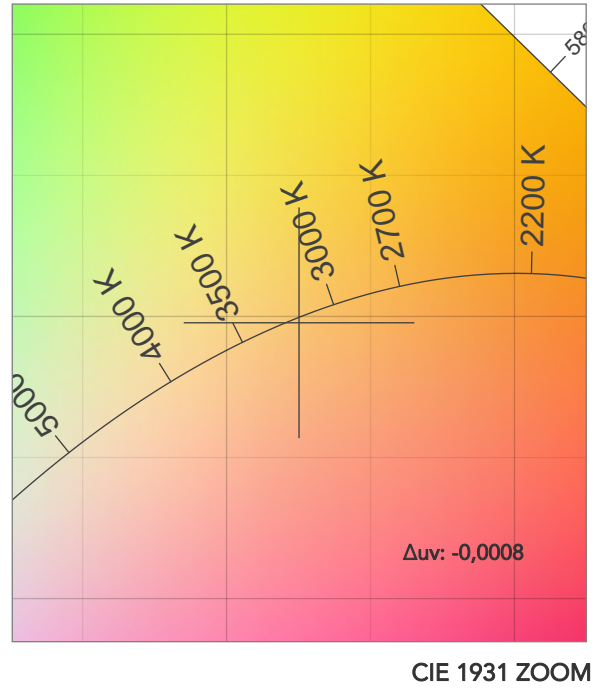
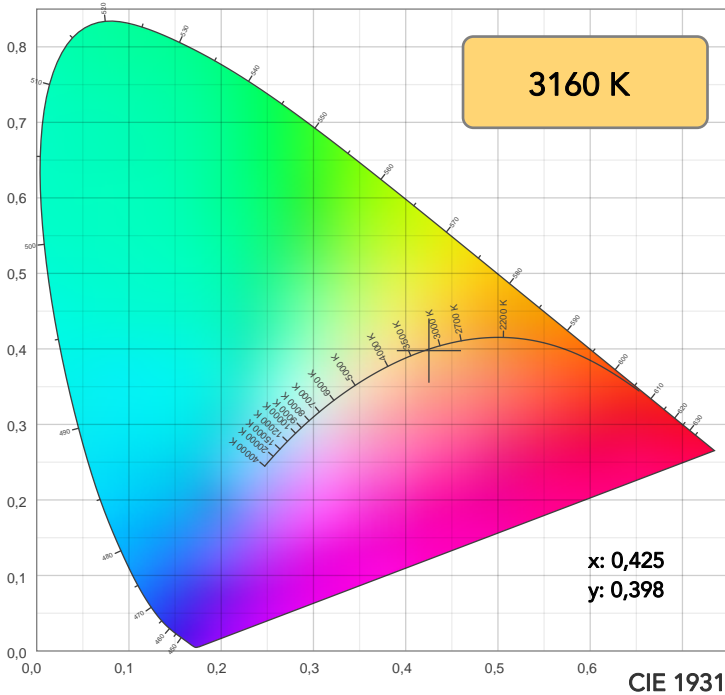
Beam angle 50%: 31°

Field angle 10%: 41,9°

Cut off angle 2.5%: 51,6°

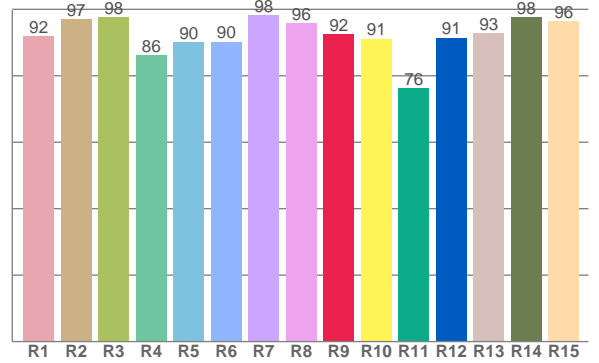
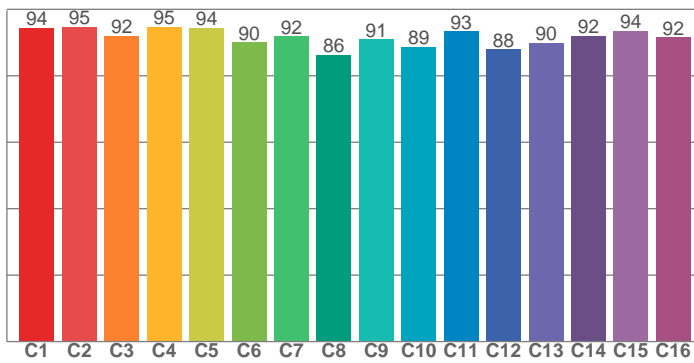
Spectra





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 |

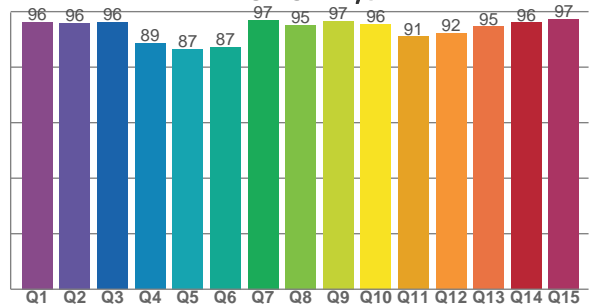
TM30 C values, 16 binned values out of total of 99 C values

| 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

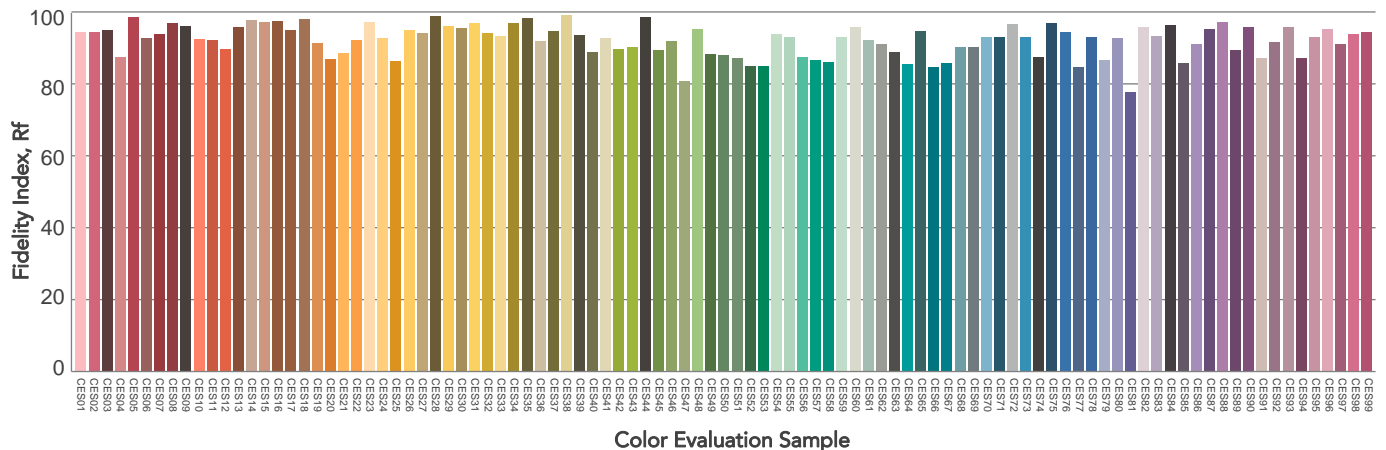
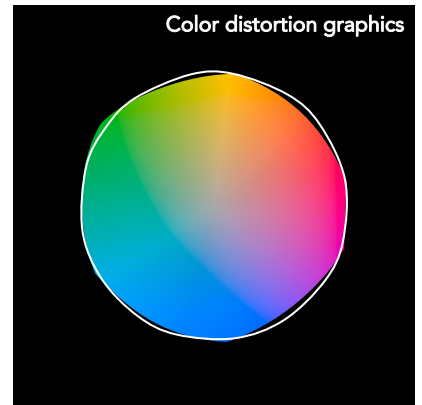
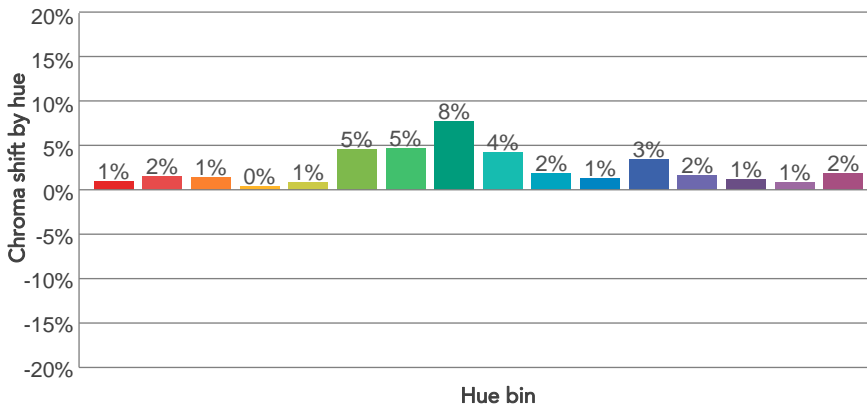
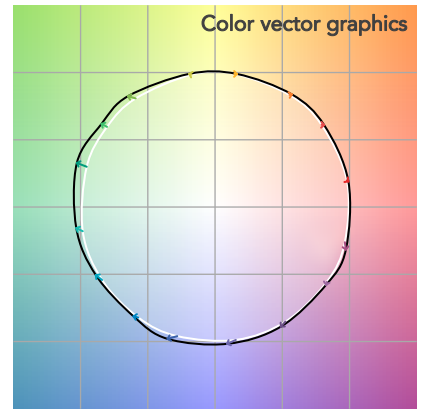
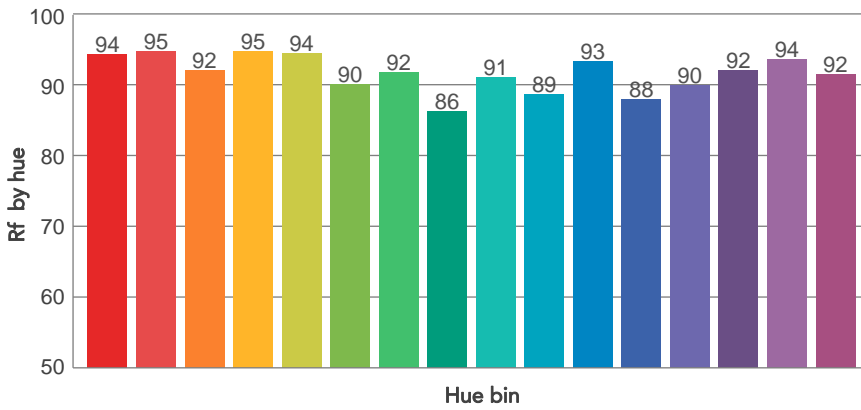
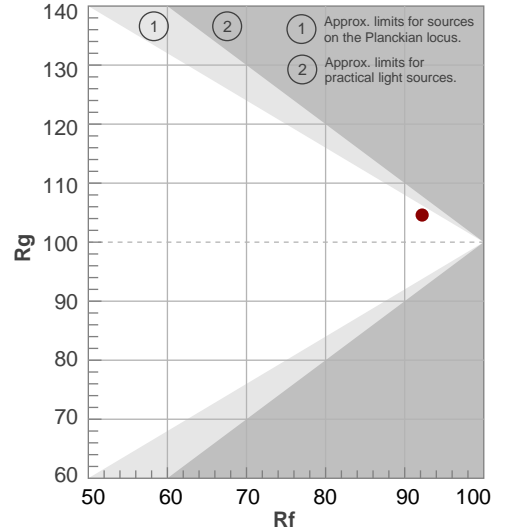
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| 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

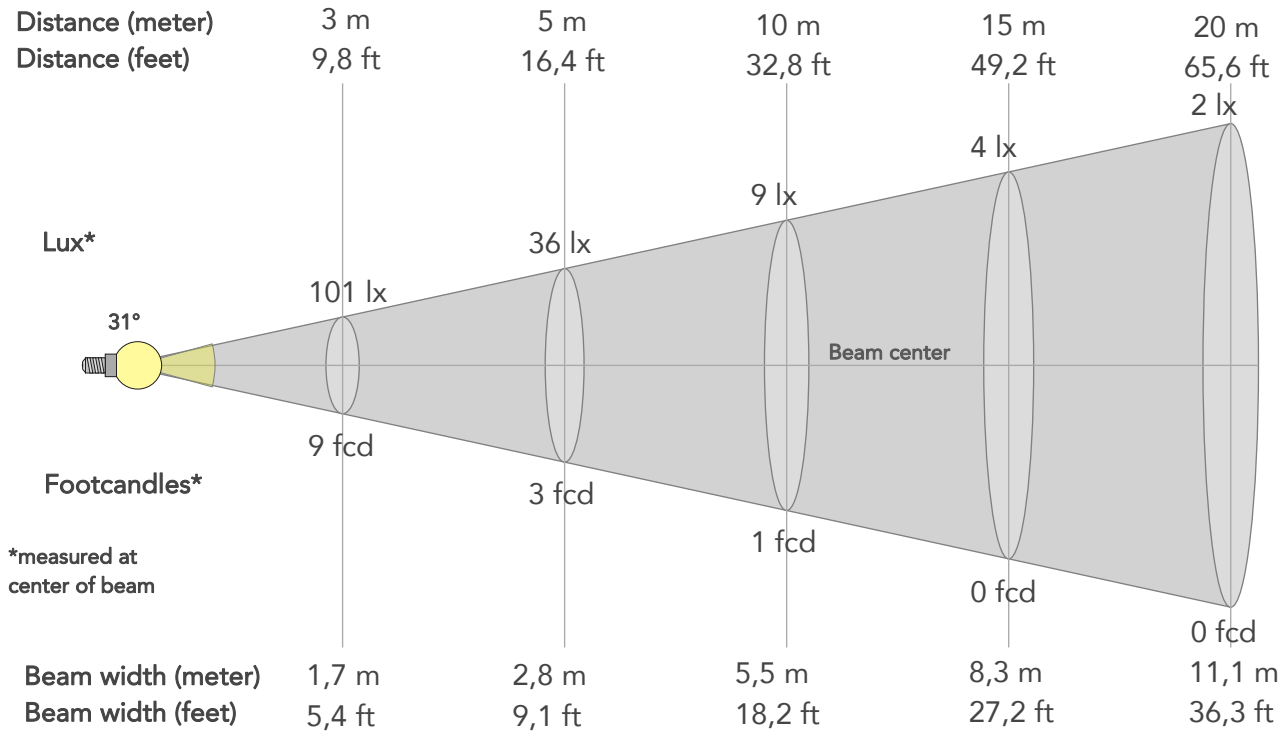
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 1% | -1% |
| 2 | 95 | 2% | -1% |
| 3 | 92 | 1% | -1% |
| 4 | 95 | 0% | -2% |
| 5 | 94 | 1% | 2% |
| 6 | 90 | 5% | 4% |
| 7 | 92 | 5% | 0% |
| 8 | 86 | 8% | -1% |
| 9 | 91 | 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



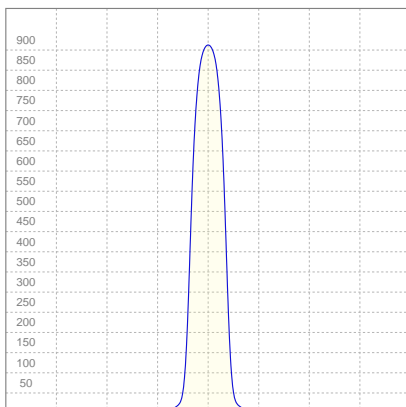
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 31° | 41,9° | 51,6° | 99,9% | 99,3% |



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 |

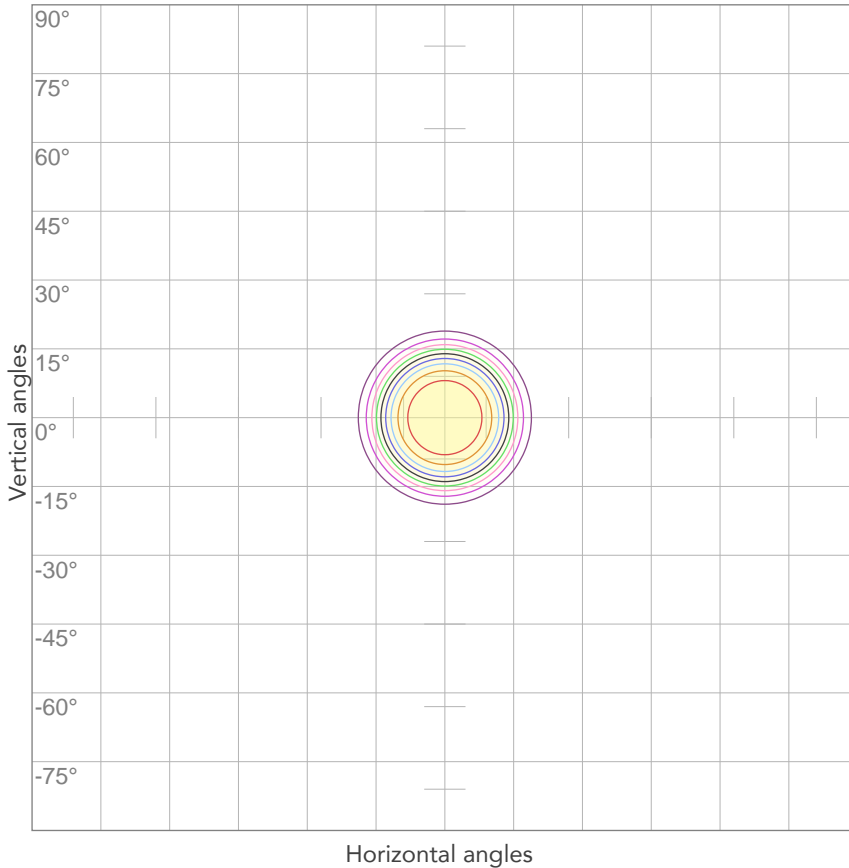
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM

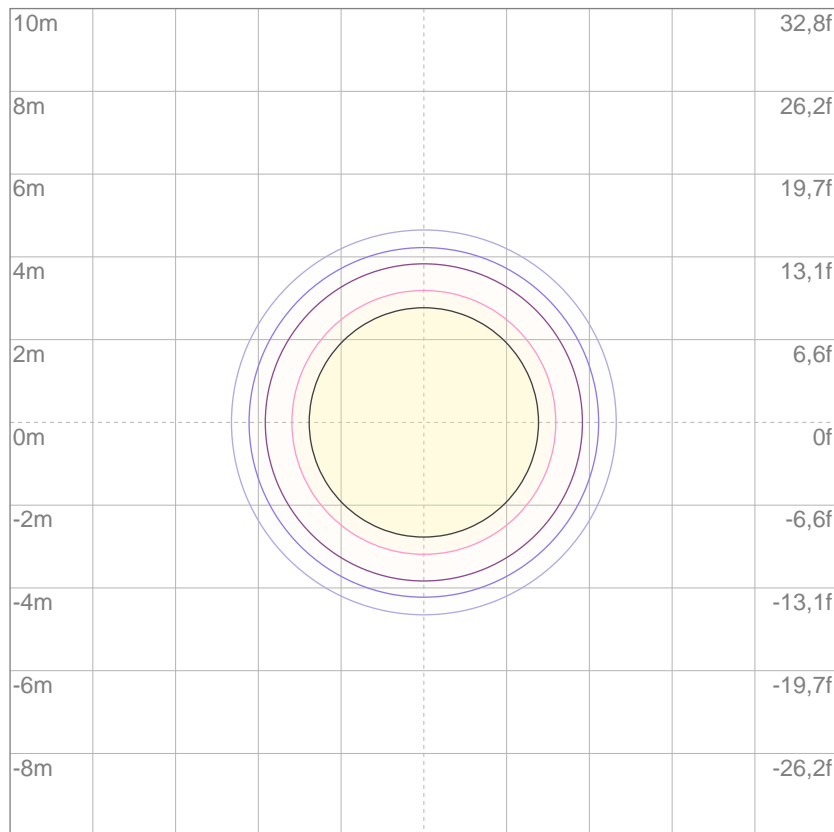


| | |
|-----|--------|
| 10% | 91 cd |
| 20% | 182 cd |
| 30% | 274 cd |
| 40% | 365 cd |
| 50% | 456 cd |
| 60% | 547 cd |
| 70% | 638 cd |
| 80% | 730 cd |

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:

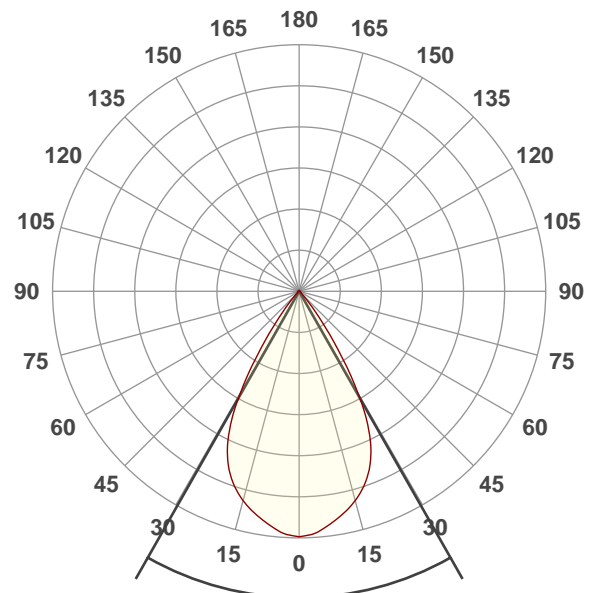
4000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:53:24

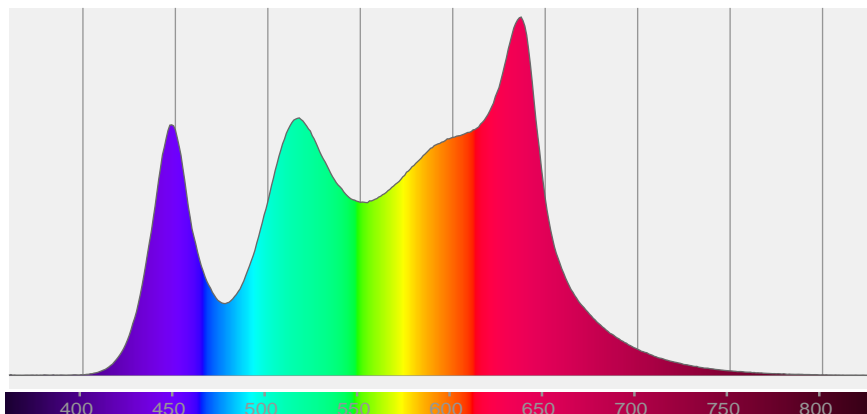


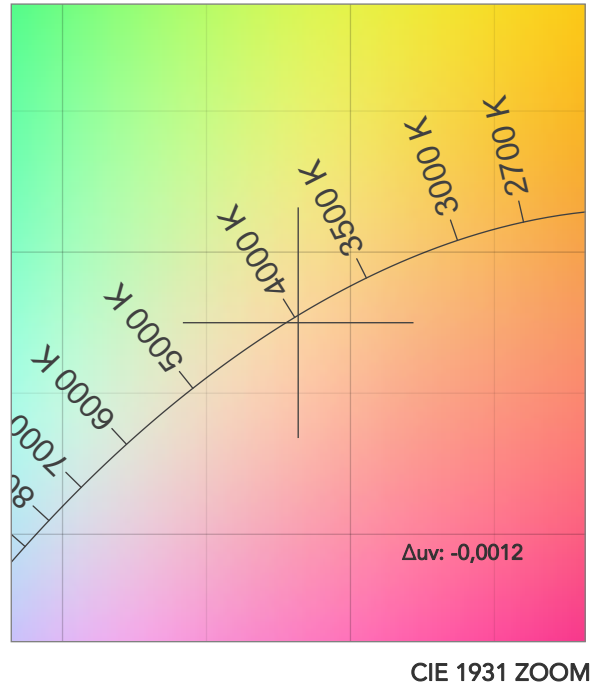
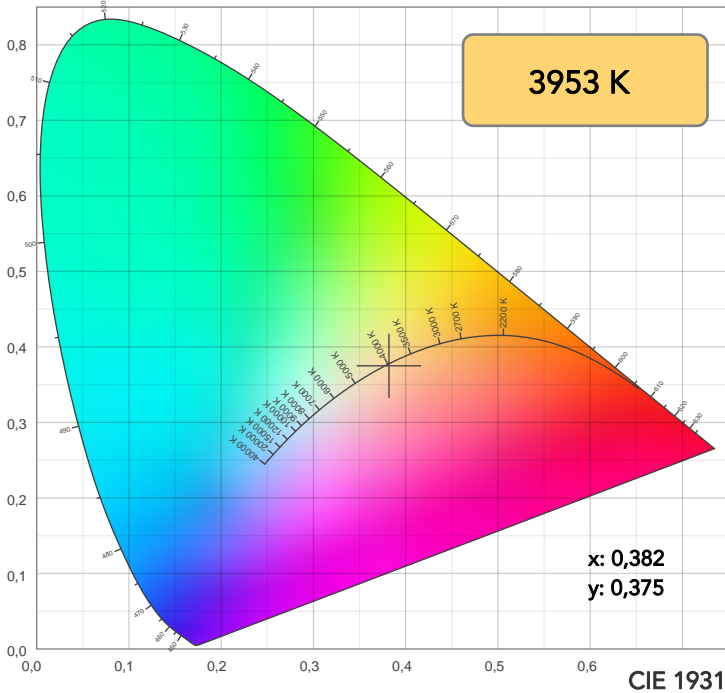
Beam angle 50%: 59,2°

Field angle 10%: 77,8°

Cut off angle 2.5%: 89,4°

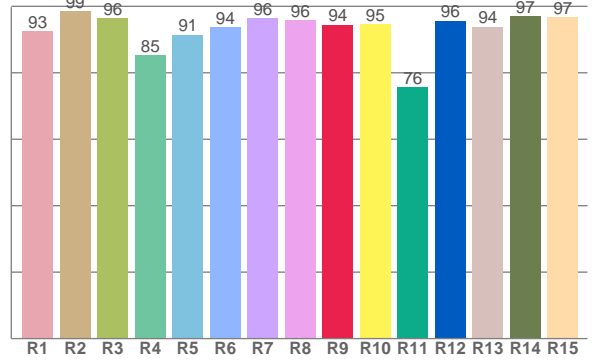
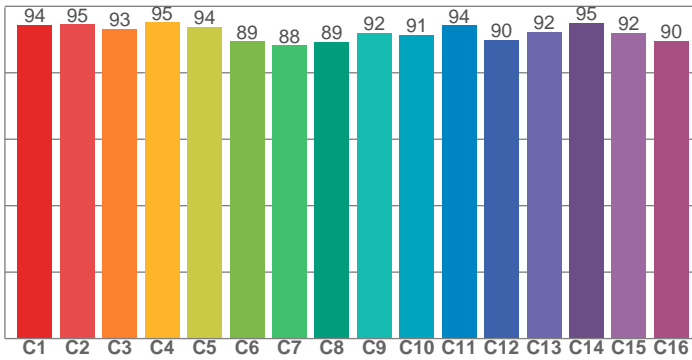
Spectra





TM30: 92,5

CRI: 93,8 (R1-R8)



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

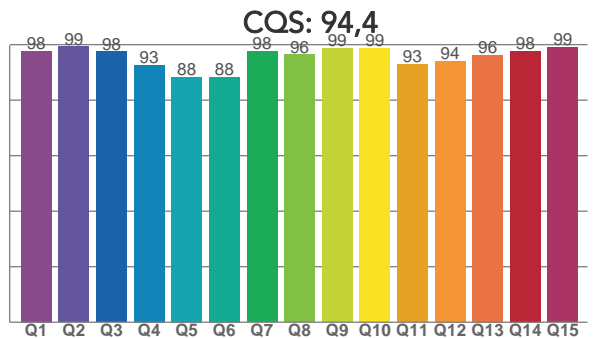
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 92,6 | 98,6 | 96,4 | 85,2 | 91,5 | 93,6 | 96,5 | 95,8 | 94,5 | 94,6 | 75,7 | 95,7 | 93,8 | 97,0 | 96,8 |

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 |



COLOR PARAMETERS

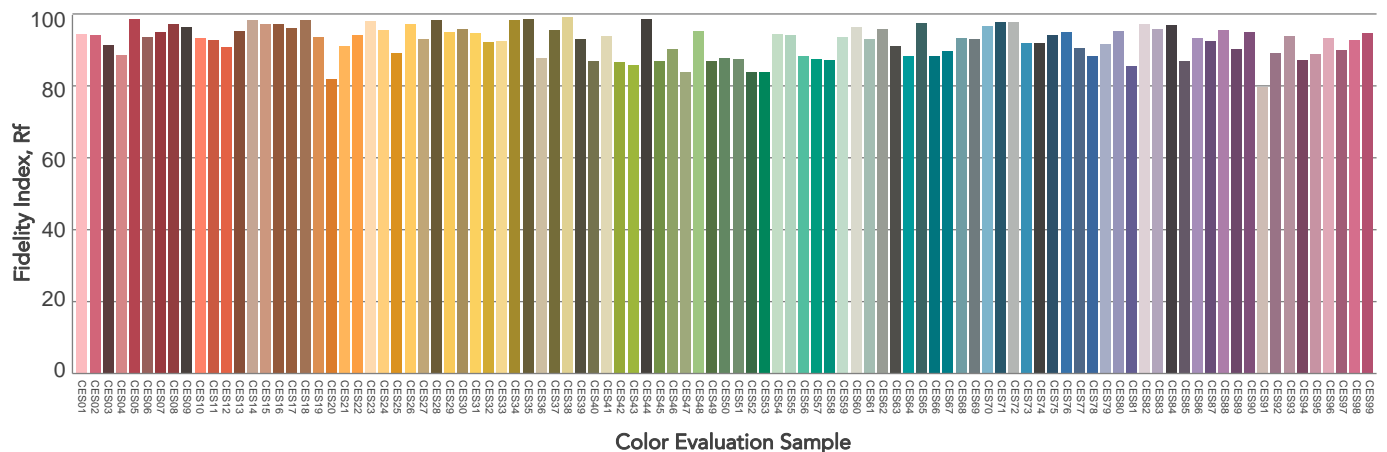
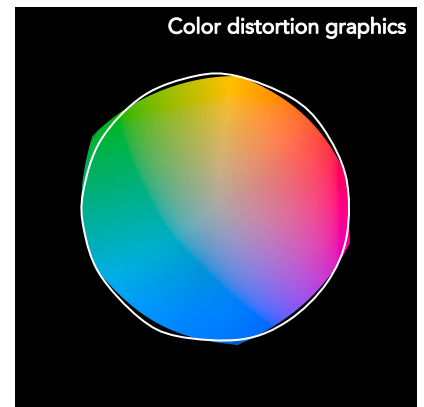
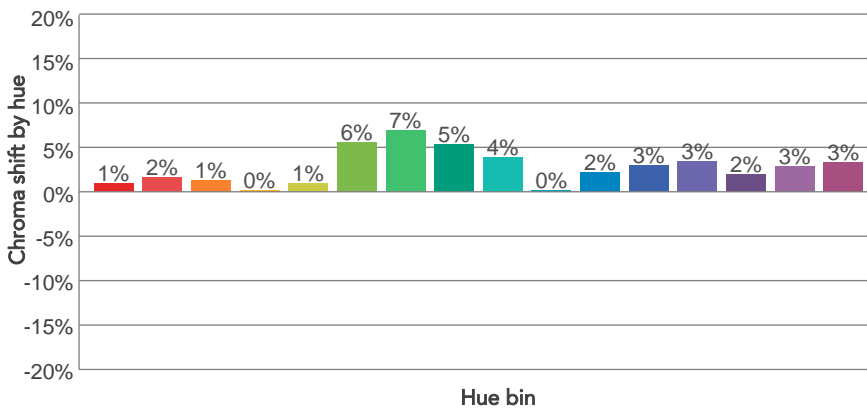
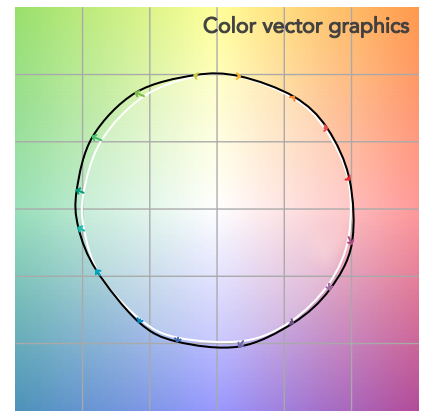
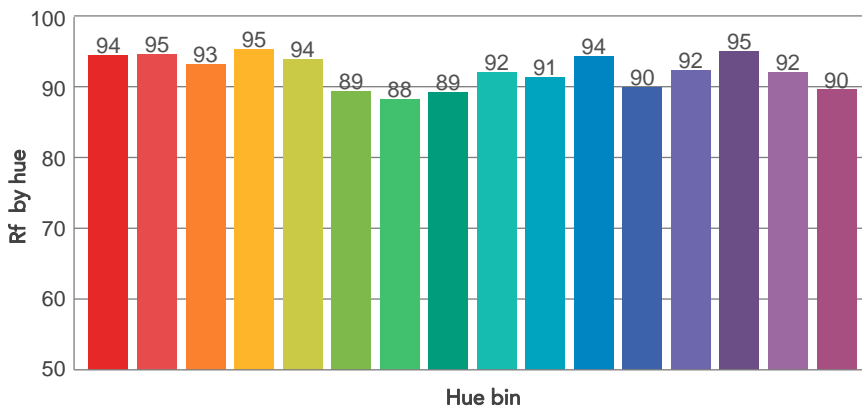
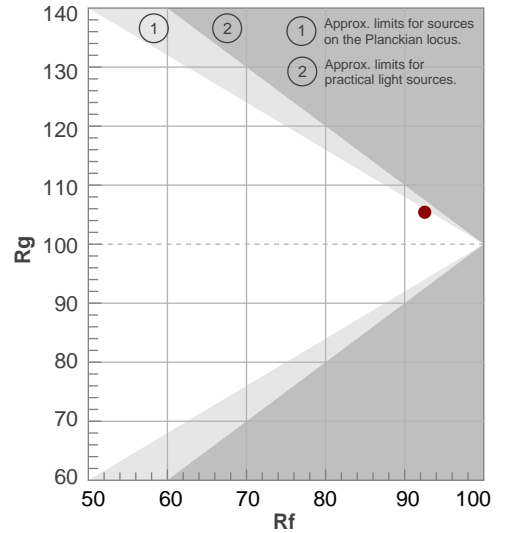
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| 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

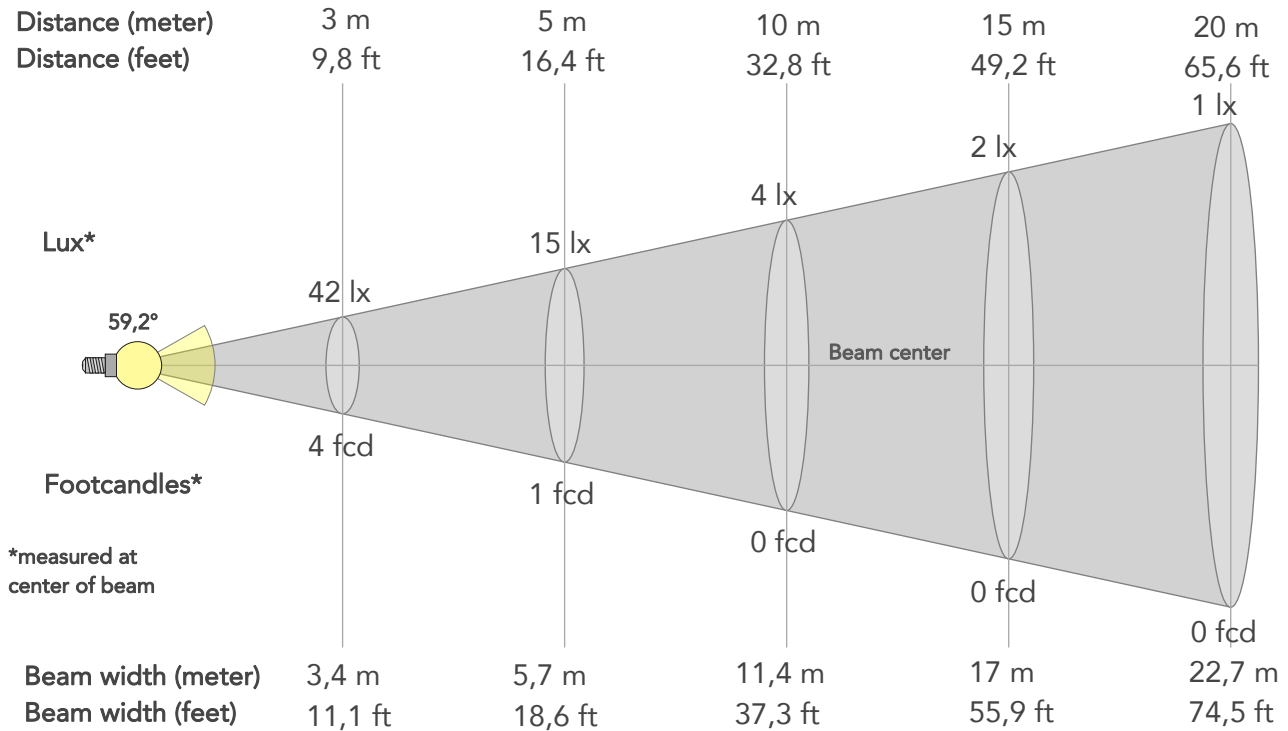
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 1% | -1% |
| 2 | 95 | 2% | -1% |
| 3 | 93 | 1% | 0% |
| 4 | 95 | 0% | -1% |
| 5 | 94 | 1% | 2% |
| 6 | 89 | 6% | 4% |
| 7 | 88 | 7% | 1% |
| 8 | 89 | 5% | -1% |
| 9 | 92 | 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



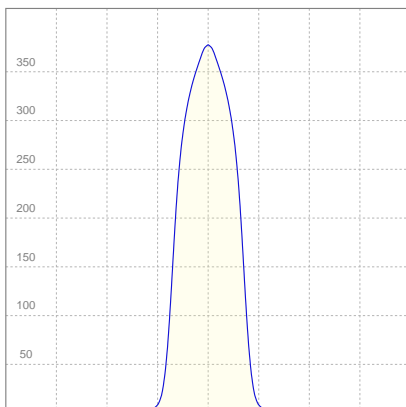
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 59,2° | 77,8° | 89,4° | 99,5% | 98,0% |



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 |

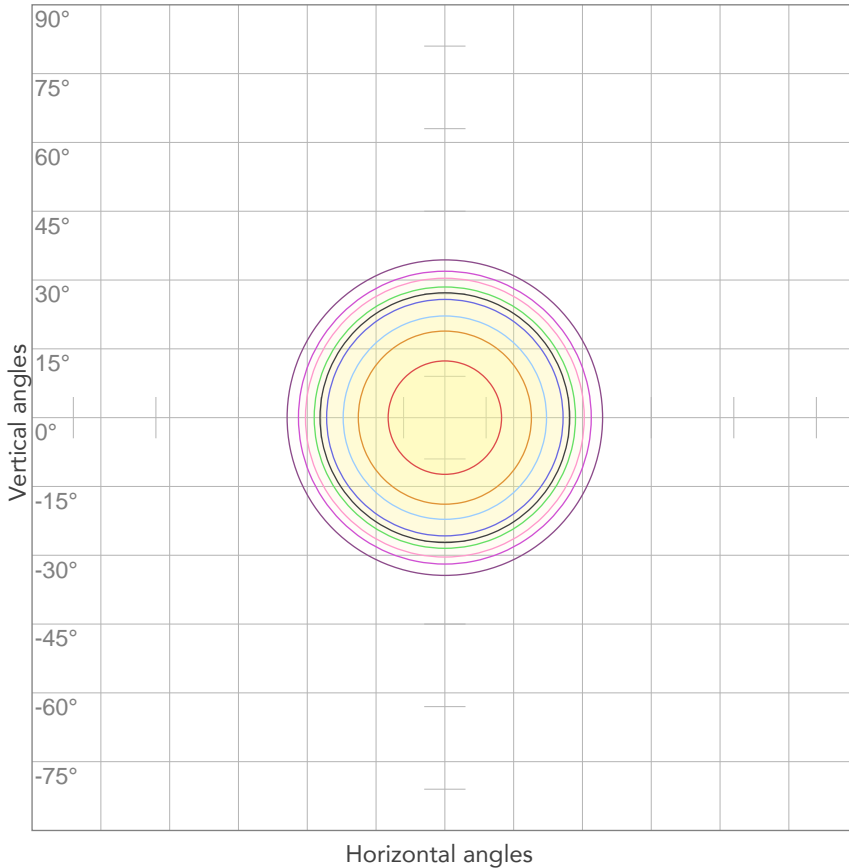
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM

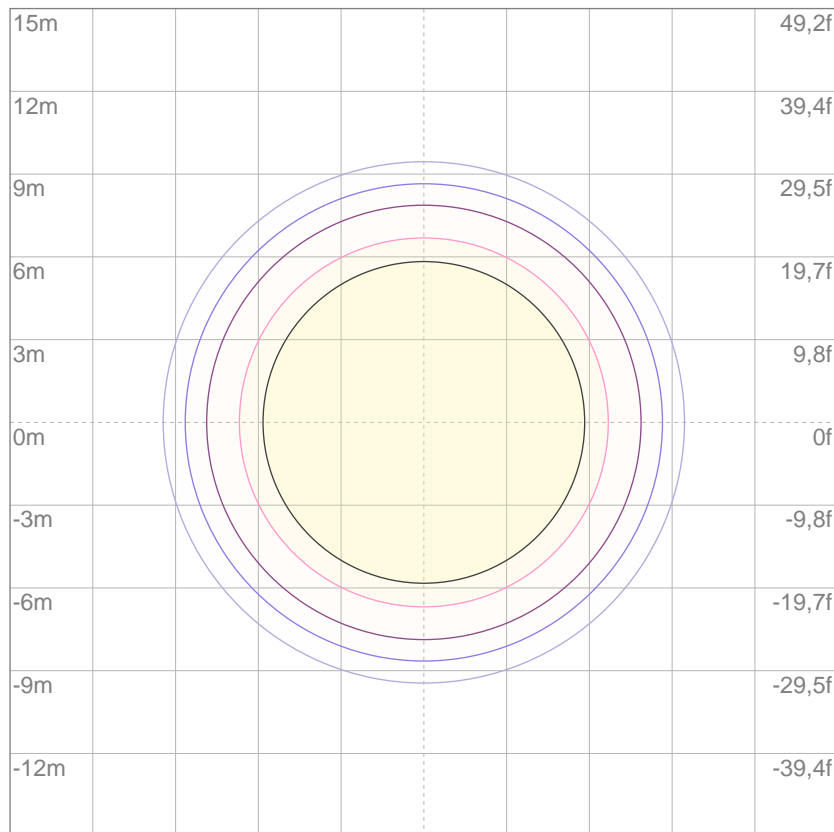


| | |
|-----|--------|
| 10% | 38 cd |
| 20% | 75 cd |
| 30% | 113 cd |
| 40% | 151 cd |
| 50% | 189 cd |
| 60% | 226 cd |
| 70% | 264 cd |
| 80% | 302 cd |

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:

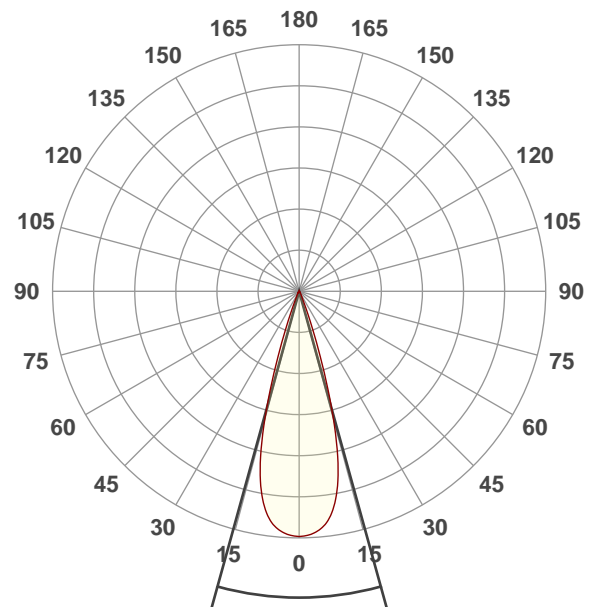
4000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:42:31

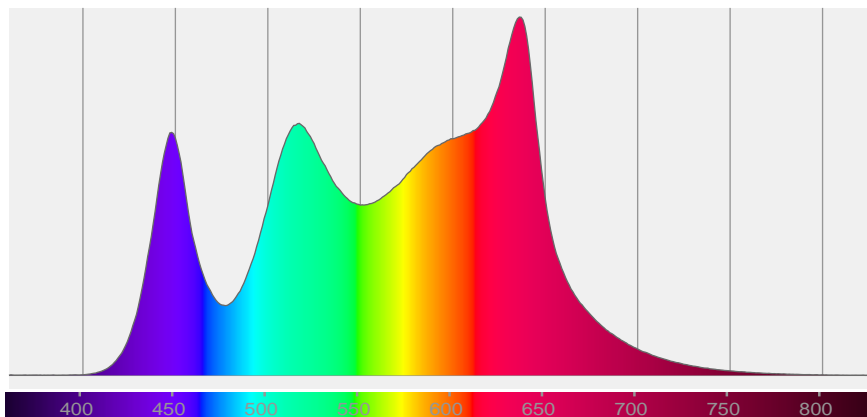


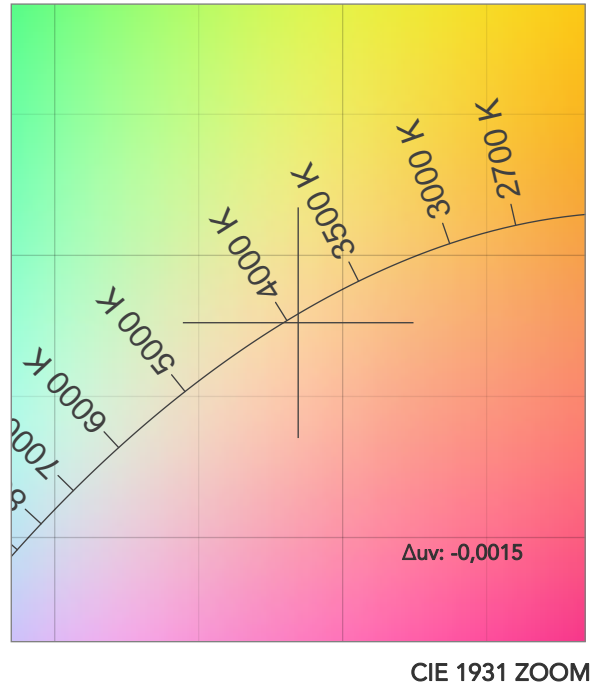
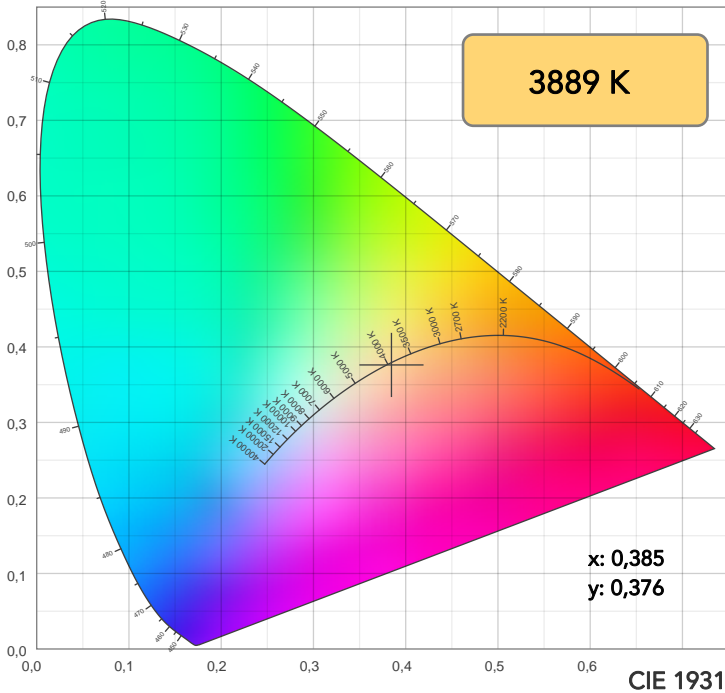
Beam angle 50%: 30,9°

Field angle 10%: 42,1°

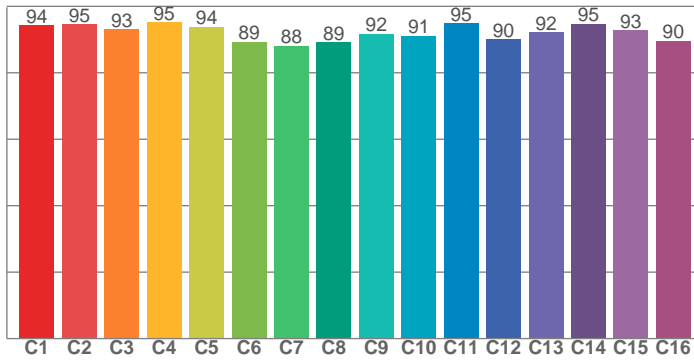
Cut off angle 2.5%: 51,9°

Spectra

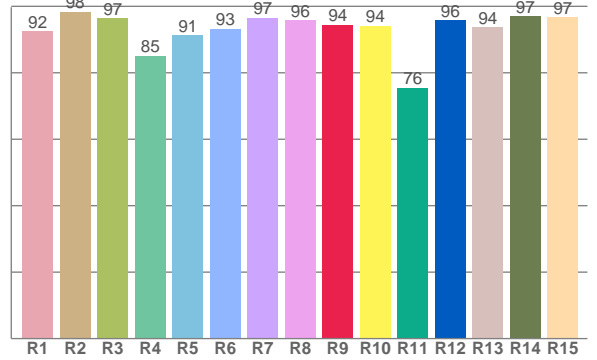




TM30: 92,5



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 |

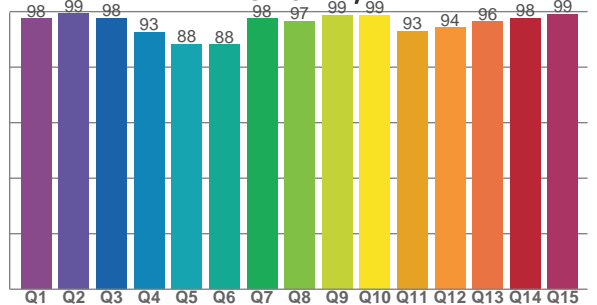
TM30 C values, 16 binned values out of total of 99 C values

| 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

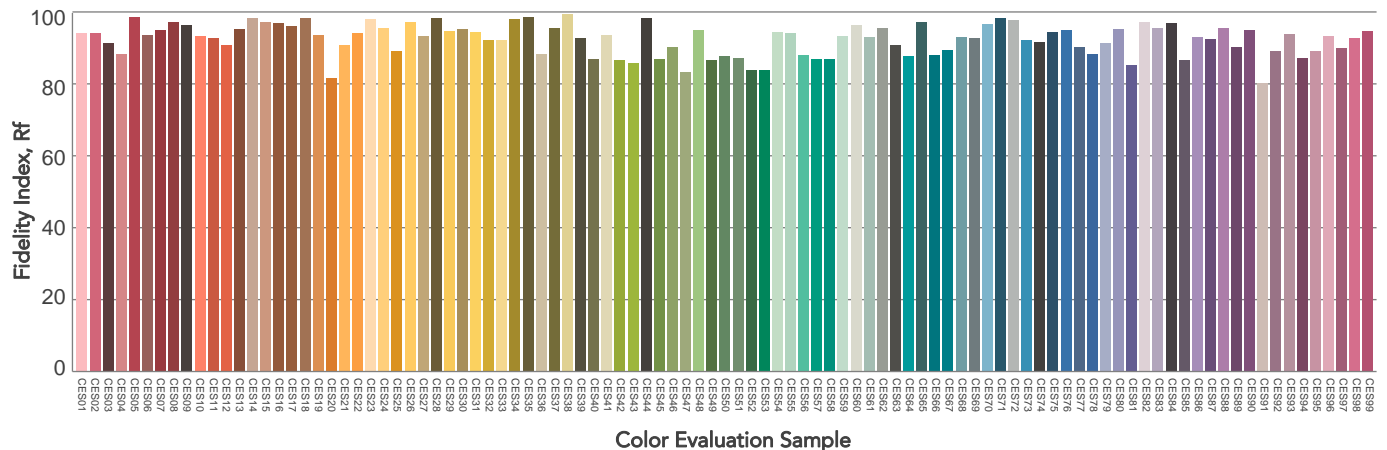
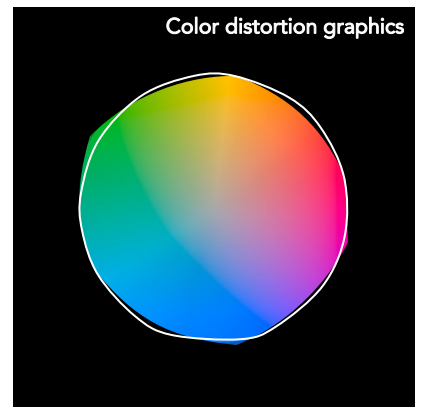
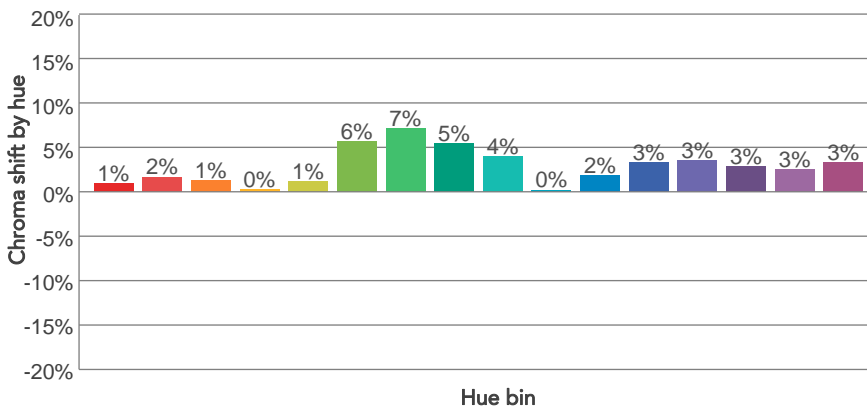
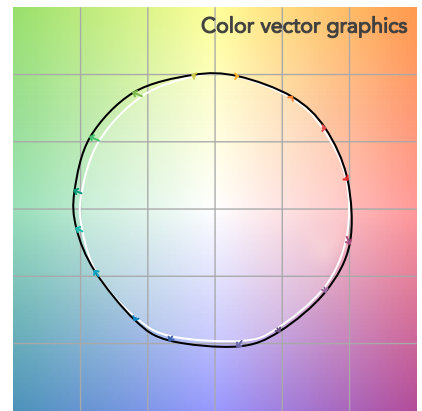
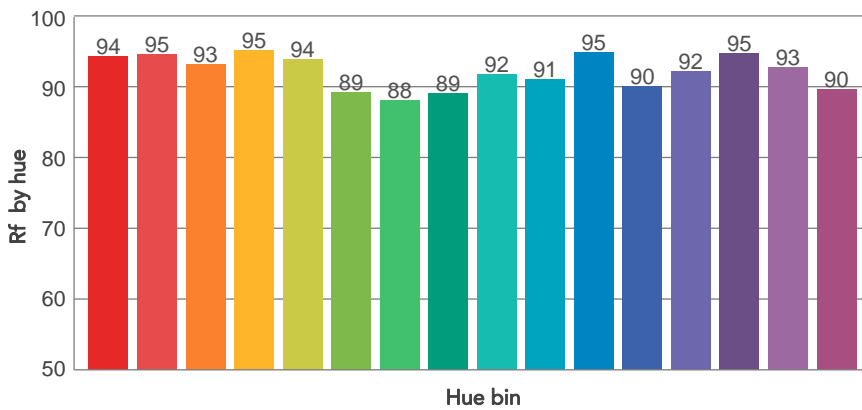
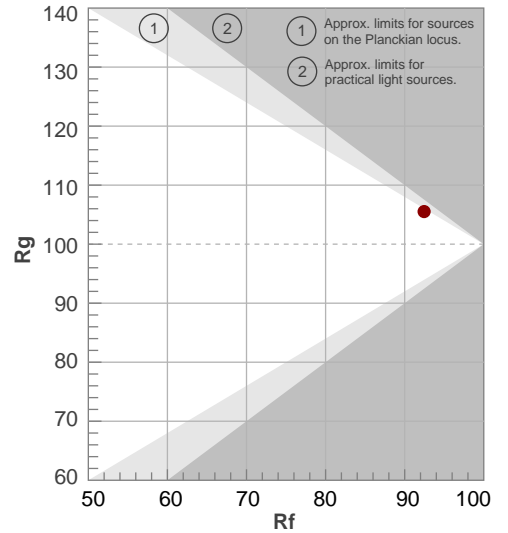
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| 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

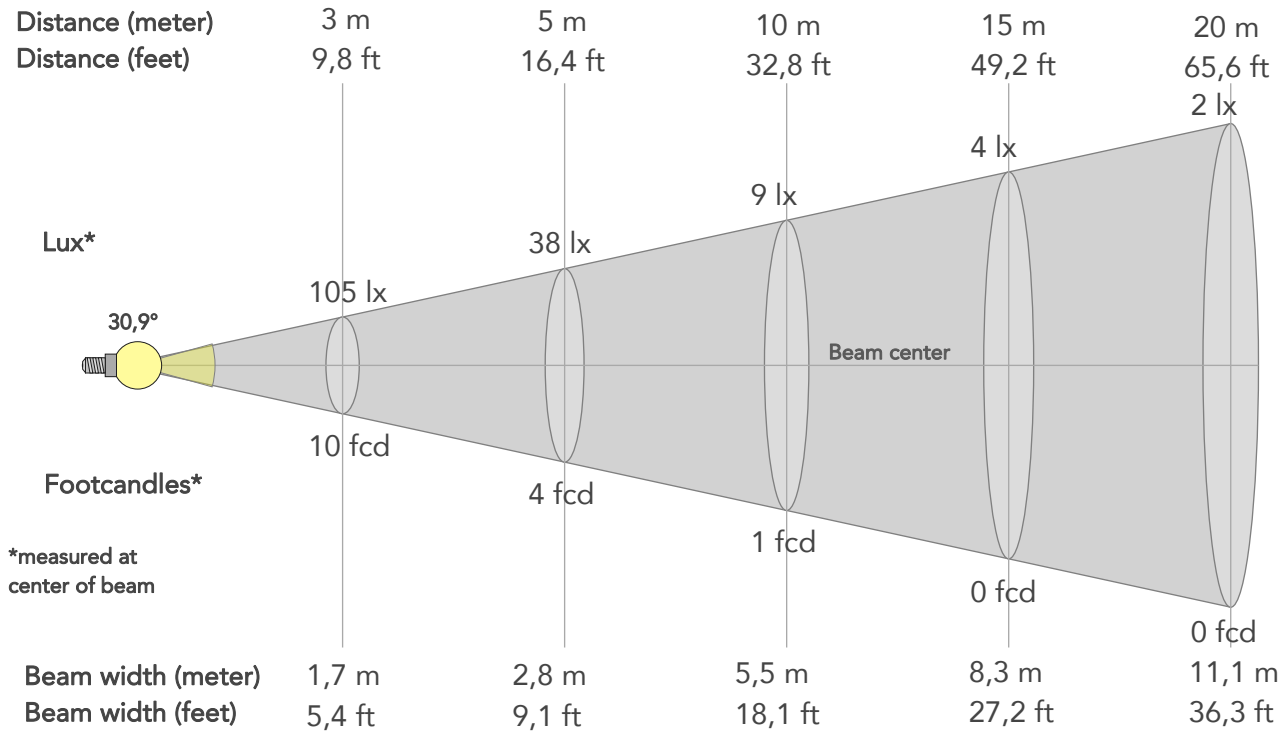
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 1% | -1% |
| 2 | 95 | 2% | -1% |
| 3 | 93 | 1% | 0% |
| 4 | 95 | 0% | -1% |
| 5 | 94 | 1% | 2% |
| 6 | 89 | 6% | 4% |
| 7 | 88 | 7% | 1% |
| 8 | 89 | 5% | -1% |
| 9 | 92 | 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% |



BEAM DETAILS



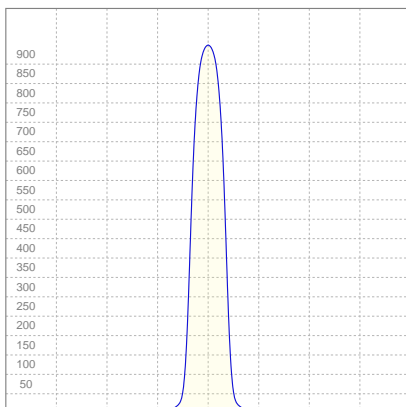
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 30,9° | 42,1° | 51,9° | 99,8% | 99,1% |



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 |

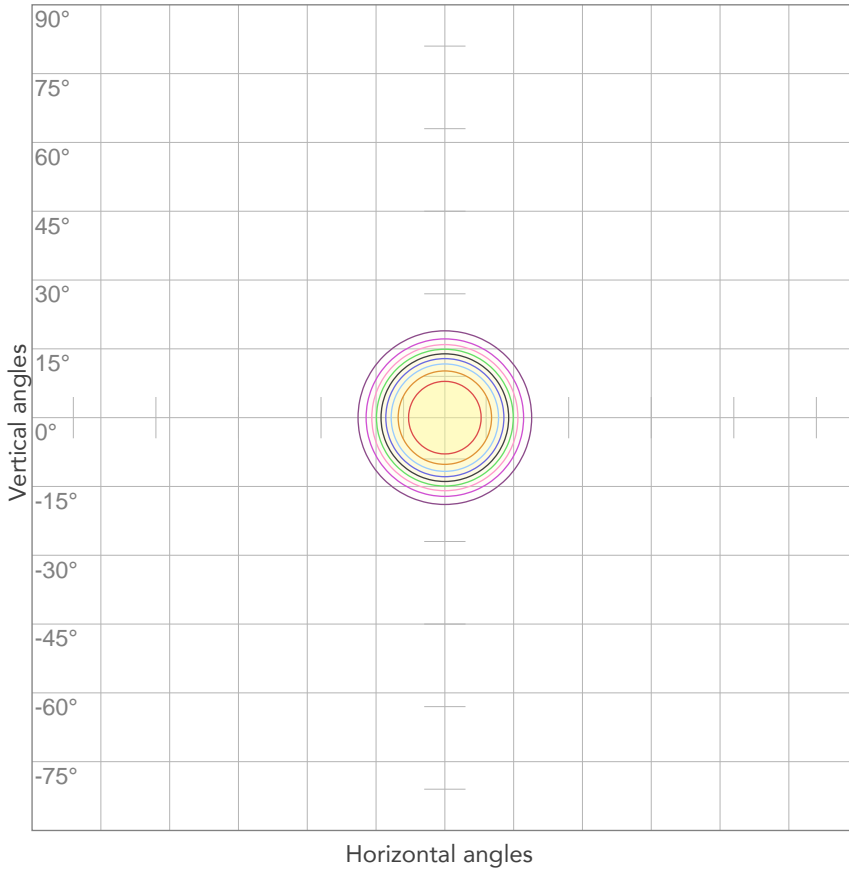
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM

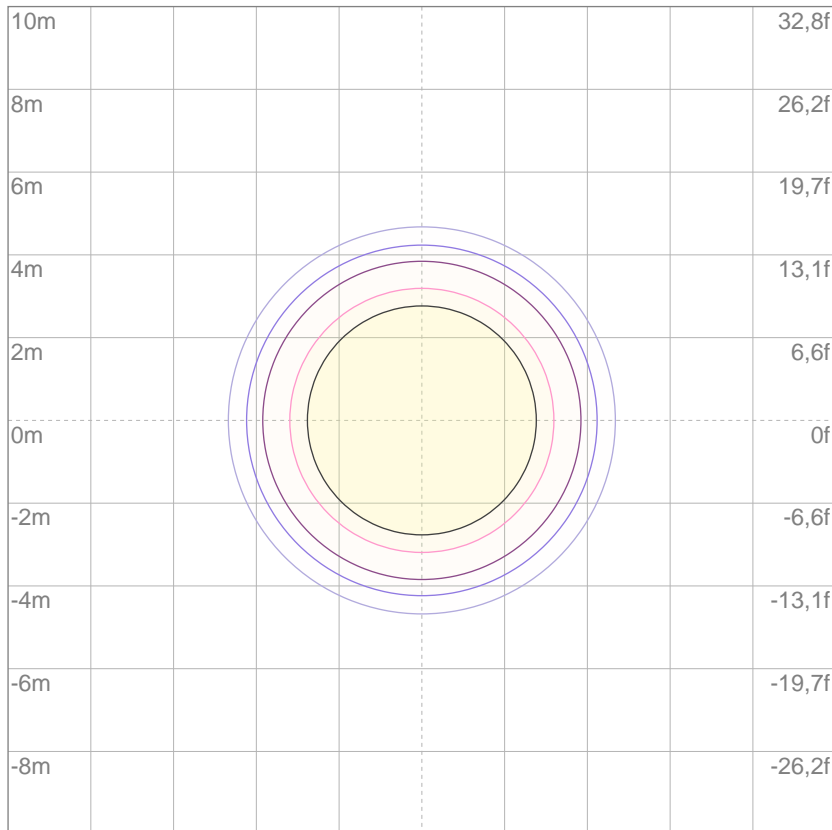


| | |
|-----|--------|
| 10% | 95 cd |
| 20% | 190 cd |
| 30% | 285 cd |
| 40% | 379 cd |
| 50% | 474 cd |
| 60% | 569 cd |
| 70% | 664 cd |
| 80% | 759 cd |

Conditions:

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

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

| | |
|-----|----------|
| 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.



Total lumen output:

340 lm

Peak candela output:

410 cd

Light quality:

CRI: 91,9

Color temperature:

5632 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

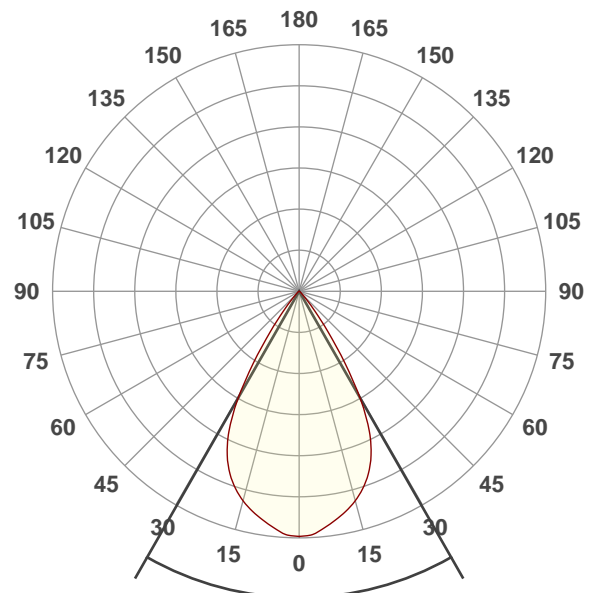
5600K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:55:18

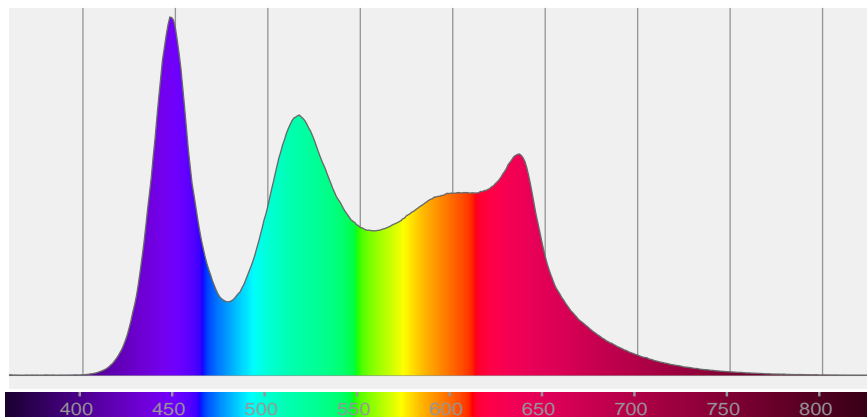


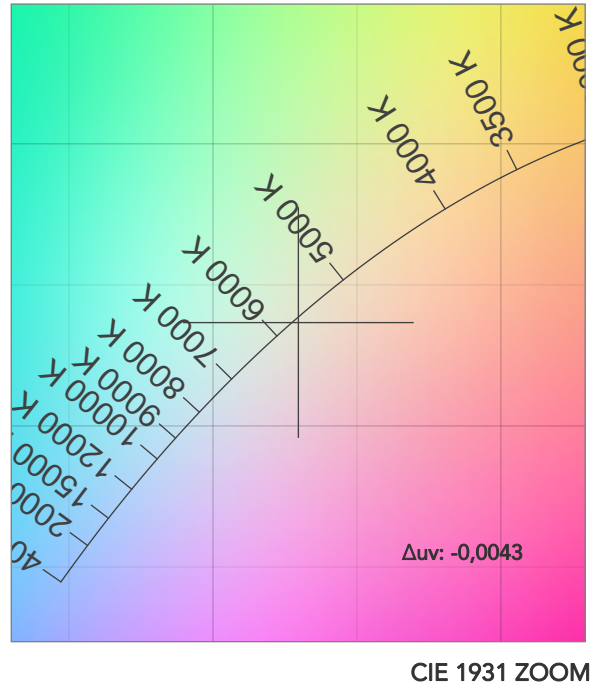
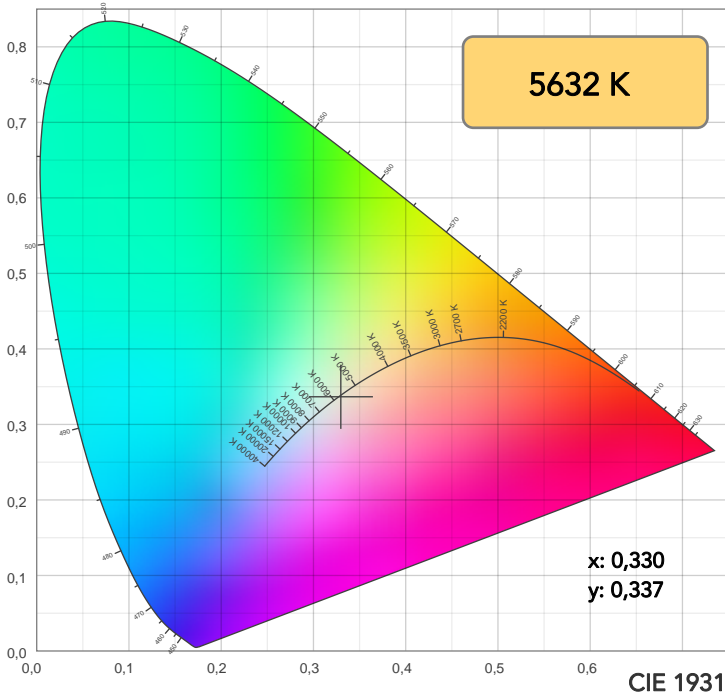
Beam angle 50%: 59,5°

Field angle 10%: 77,4°

Cut off angle 2.5%: 89,1°

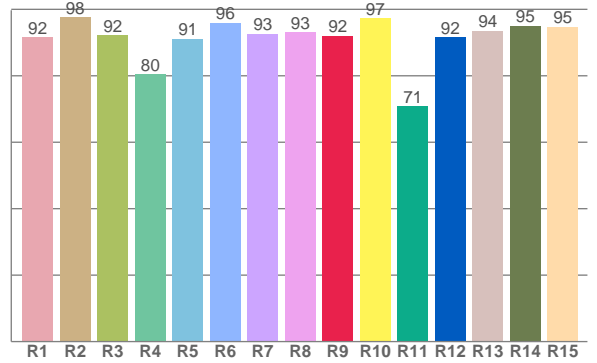
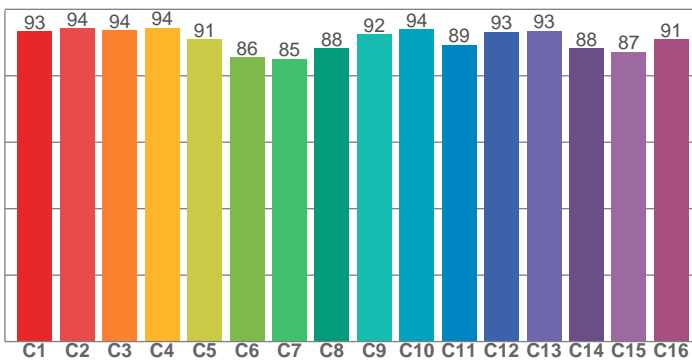
Spectra





TM30: 90,9

CRI: 91,9 (R1-R8)



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

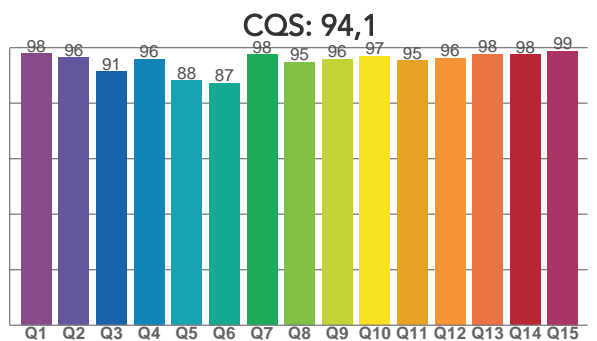
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,6 | 97,7 | 92,3 | 80,4 | 91,1 | 96,0 | 92,7 | 93,1 | 92,0 | 97,4 | 70,8 | 91,6 | 93,5 | 95,0 | 94,8 |

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 |



COLOR PARAMETERS

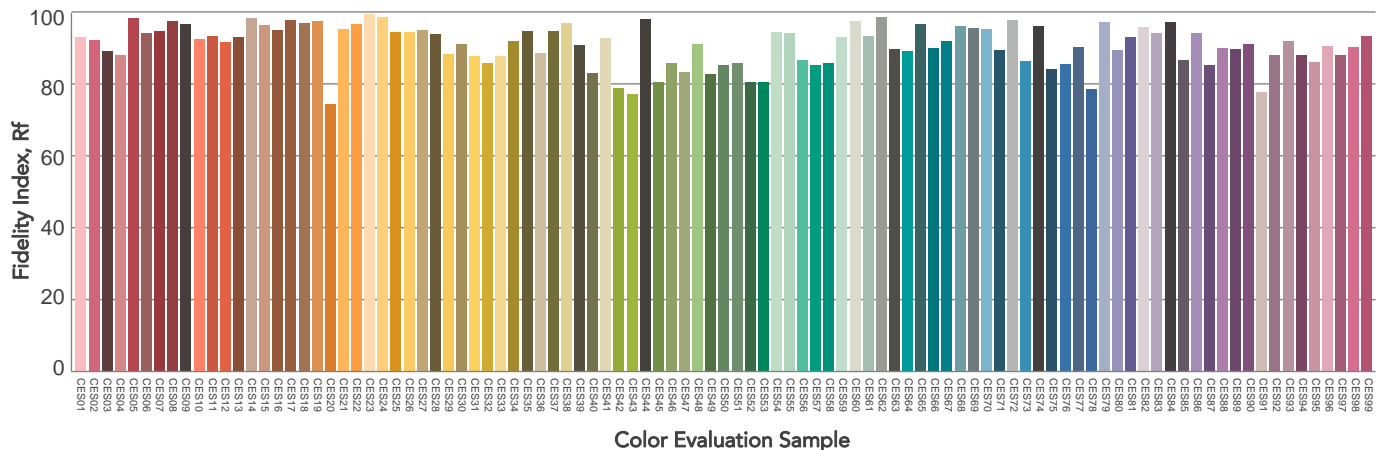
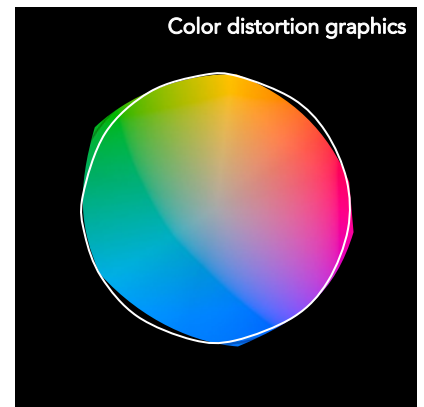
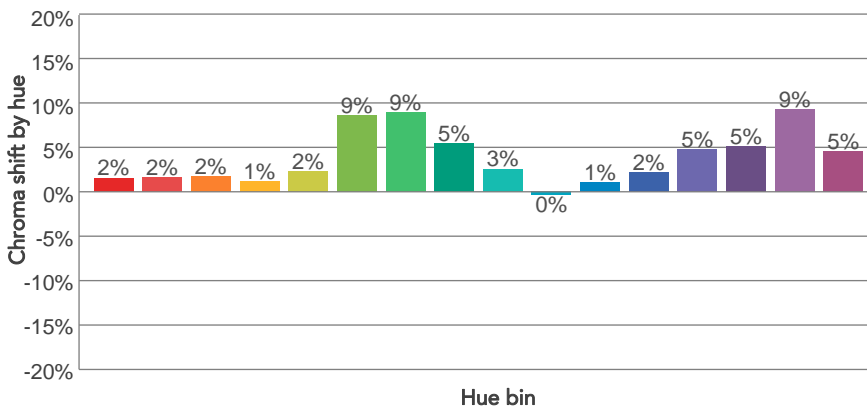
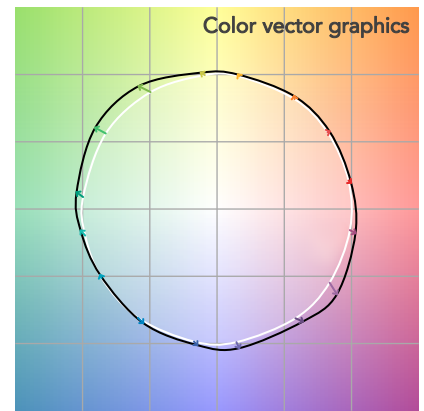
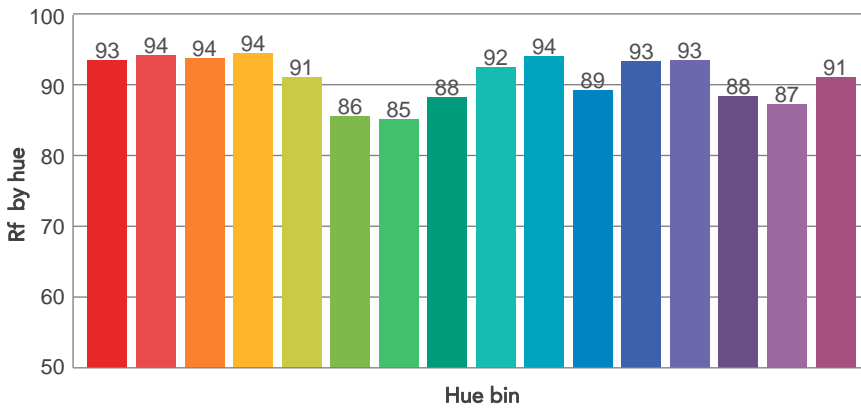
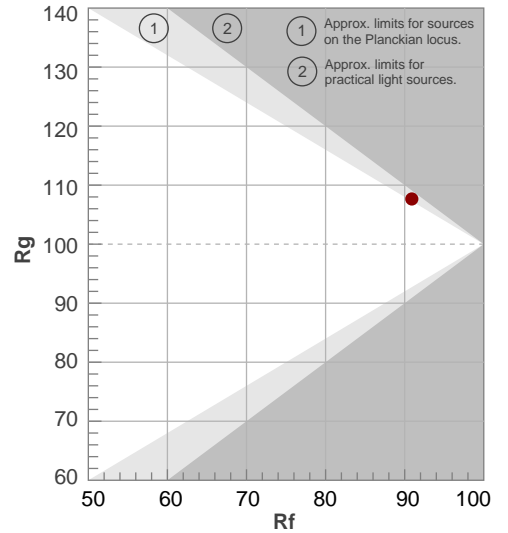
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| 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

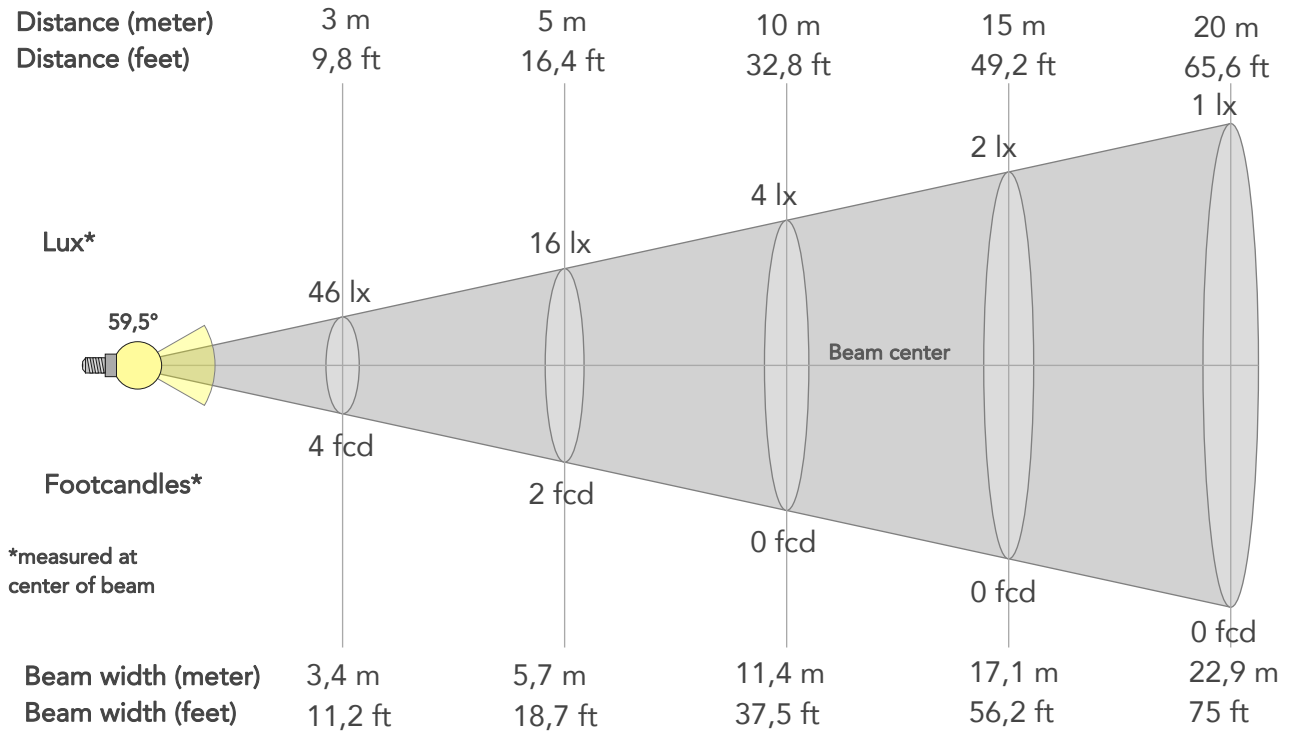
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 93 | 2% | -2% |
| 2 | 94 | 2% | 0% |
| 3 | 94 | 2% | 2% |
| 4 | 94 | 1% | 1% |
| 5 | 91 | 2% | 3% |
| 6 | 86 | 9% | 5% |
| 7 | 85 | 9% | 1% |
| 8 | 88 | 5% | -3% |
| 9 | 92 | 3% | -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



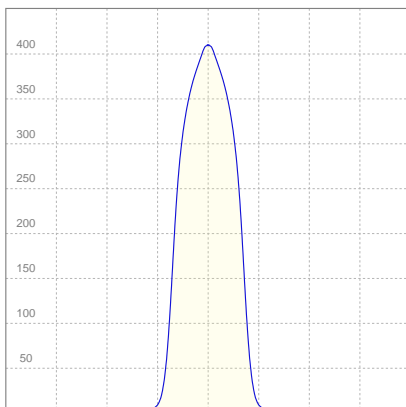
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 59,5° | 77,4° | 89,1° | 99,5% | 98,0% |



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 |

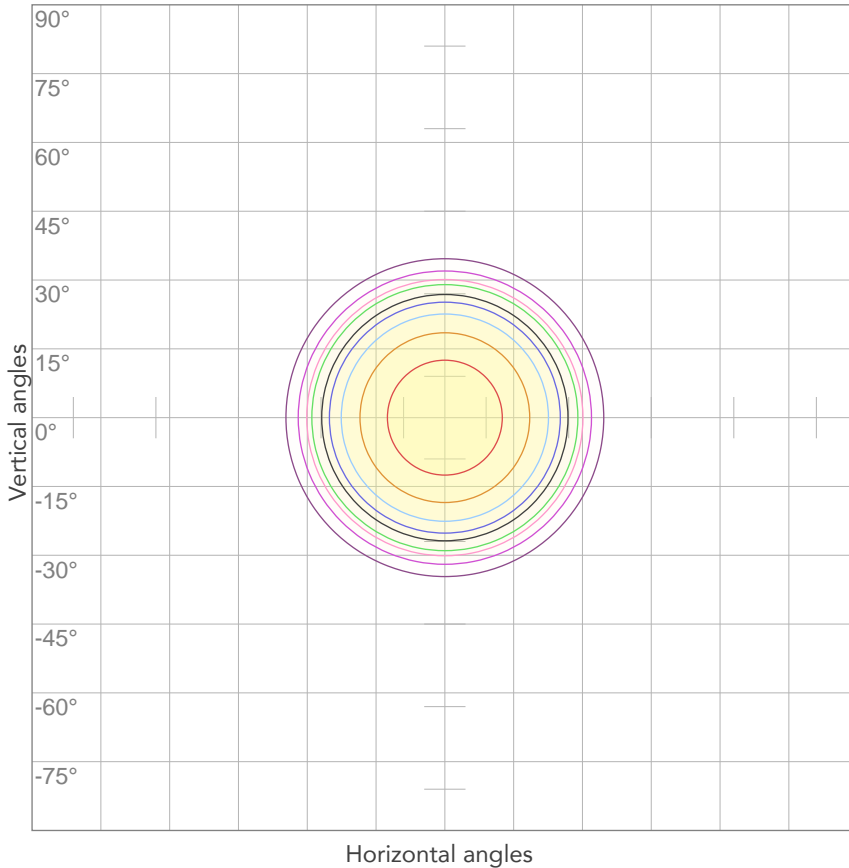
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



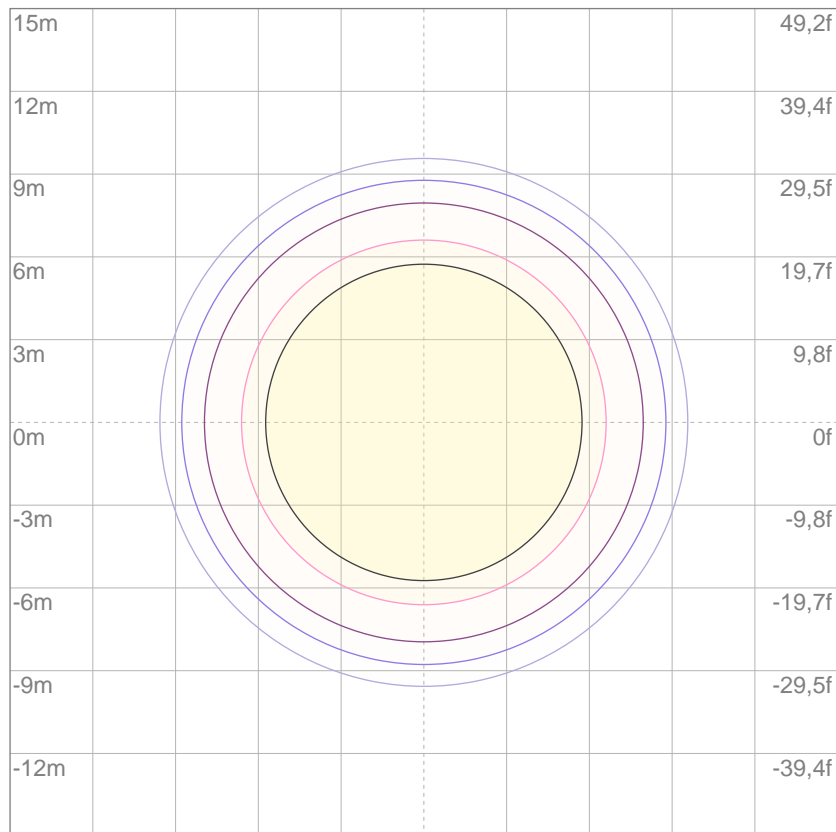
| | |
|-----|--------|
| 10% | 41 cd |
| 20% | 82 cd |
| 30% | 123 cd |
| 40% | 164 cd |
| 50% | 205 cd |
| 60% | 246 cd |
| 70% | 287 cd |
| 80% | 328 cd |

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

MEASUREMENT CONDITIONS:

Beam angle:

Wash25-50 Min Zoom

Target:

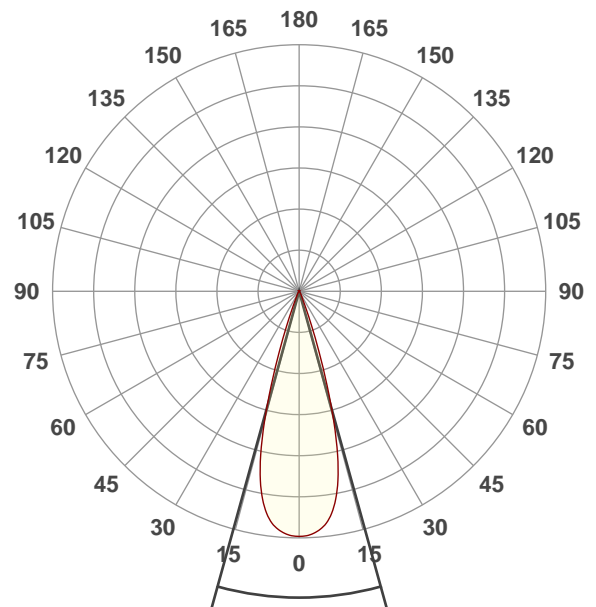
5600K

Operator:

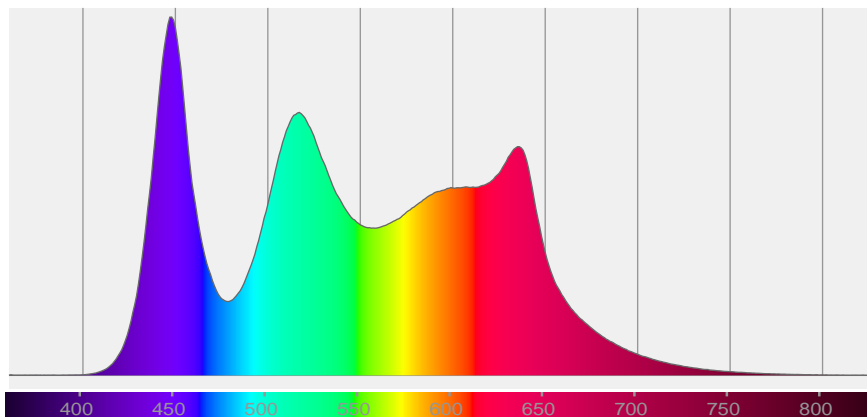
Paolo Carvone

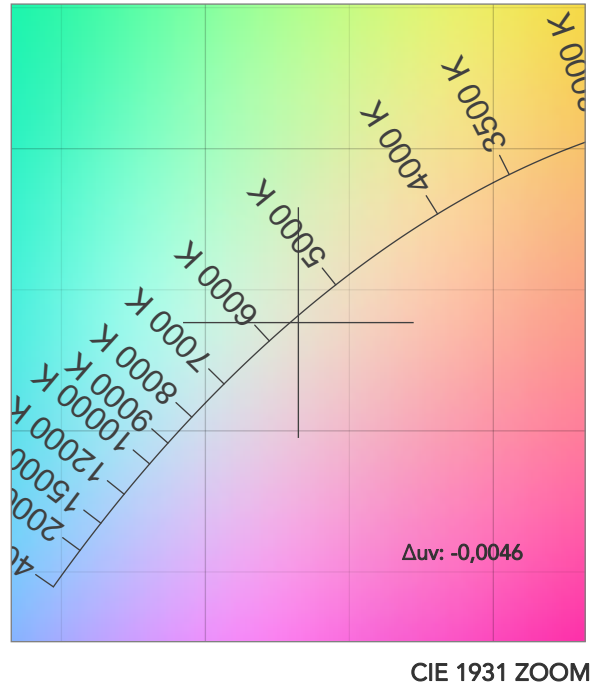
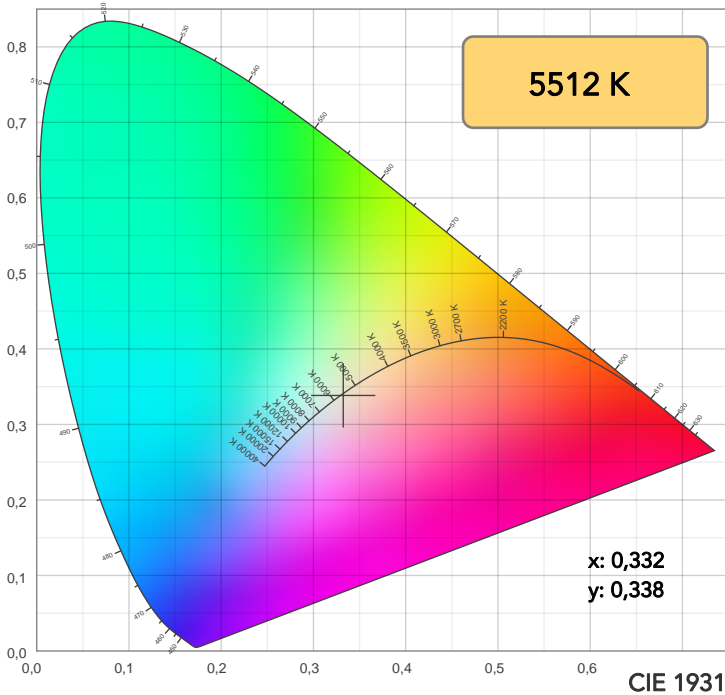
Date and time:

14/01/2021 12:44:22

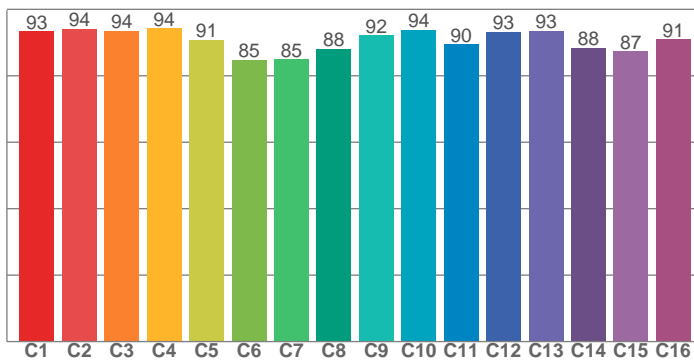


Spectra

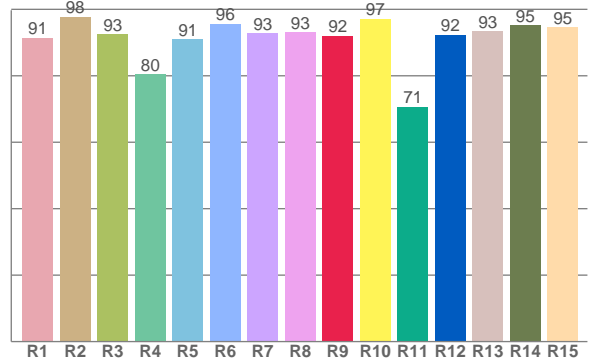




TM30: 90,9



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 |

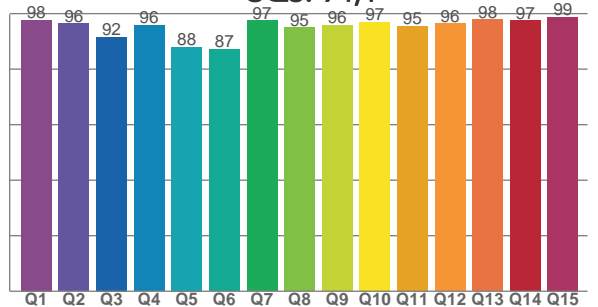
TM30 C values, 16 binned values out of total of 99 C values

| 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

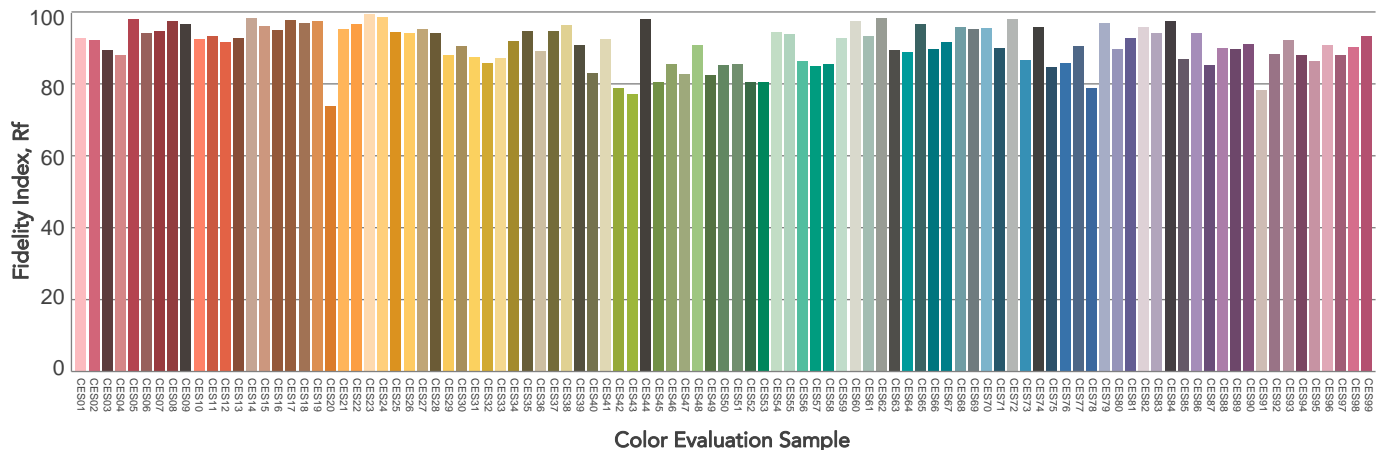
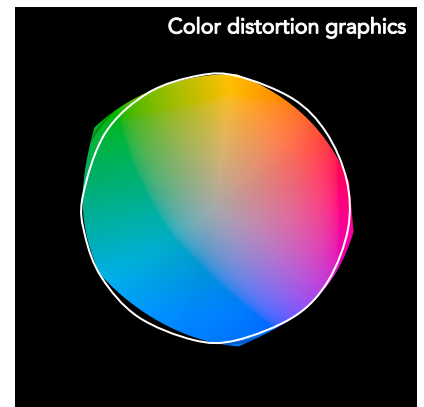
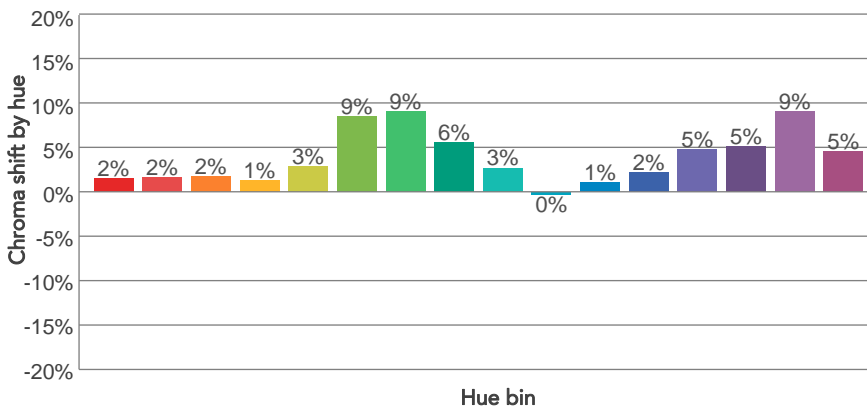
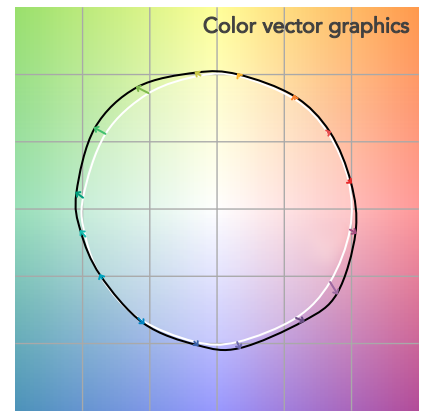
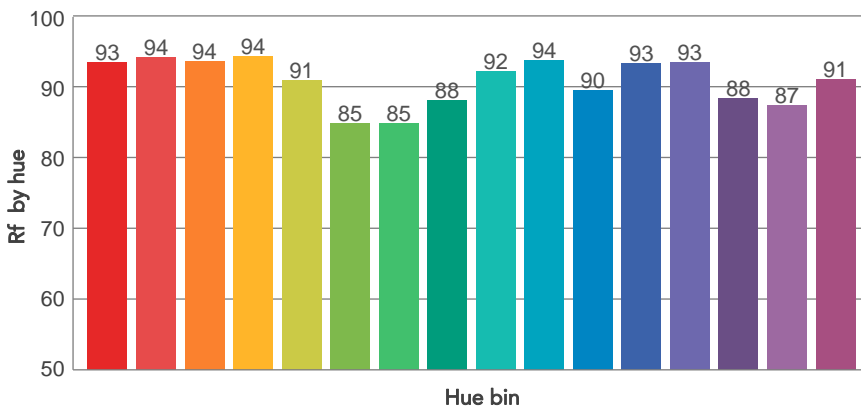
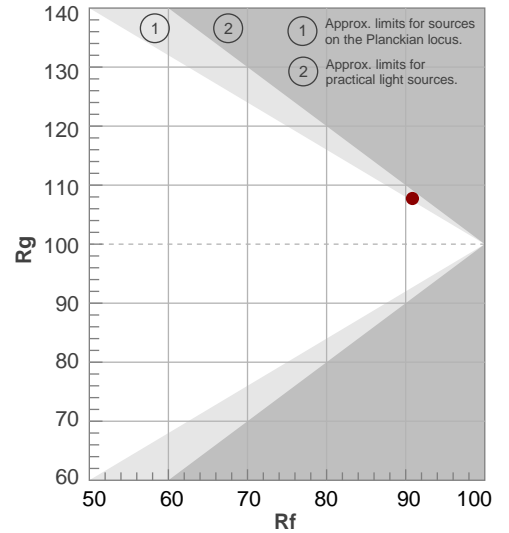
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| 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

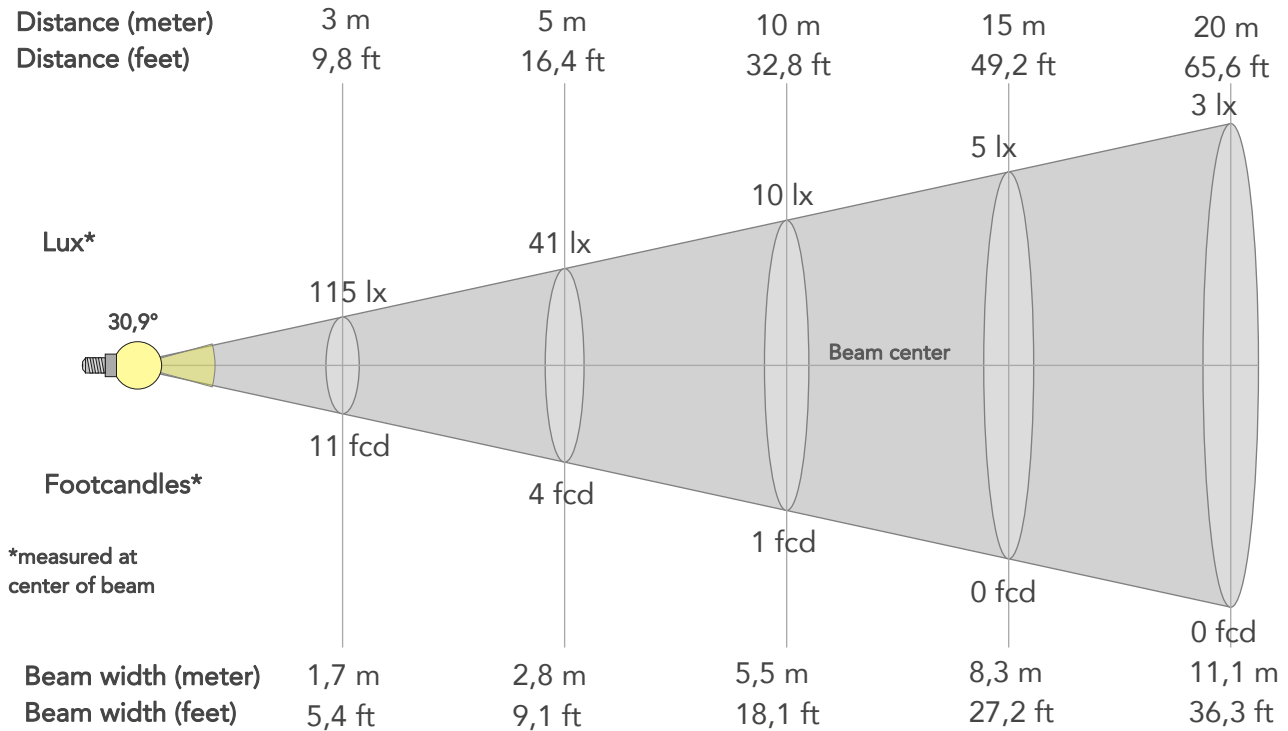
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 93 | 2% | -2% |
| 2 | 94 | 2% | 0% |
| 3 | 94 | 2% | 2% |
| 4 | 94 | 1% | 1% |
| 5 | 91 | 3% | 3% |
| 6 | 85 | 9% | 5% |
| 7 | 85 | 9% | 1% |
| 8 | 88 | 6% | -3% |
| 9 | 92 | 3% | -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



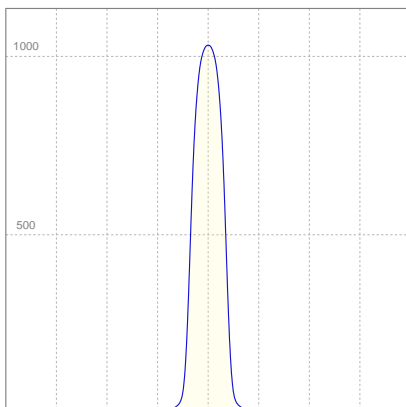
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 30,9° | 42,1° | 52,2° | 99,8% | 99,0% |



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 |

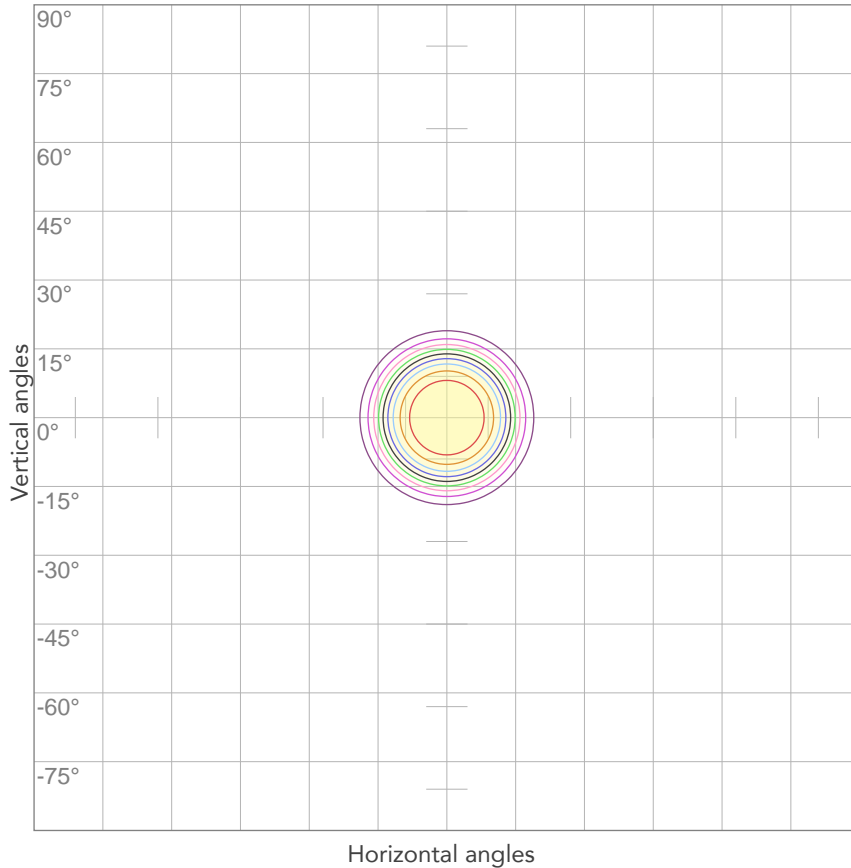
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

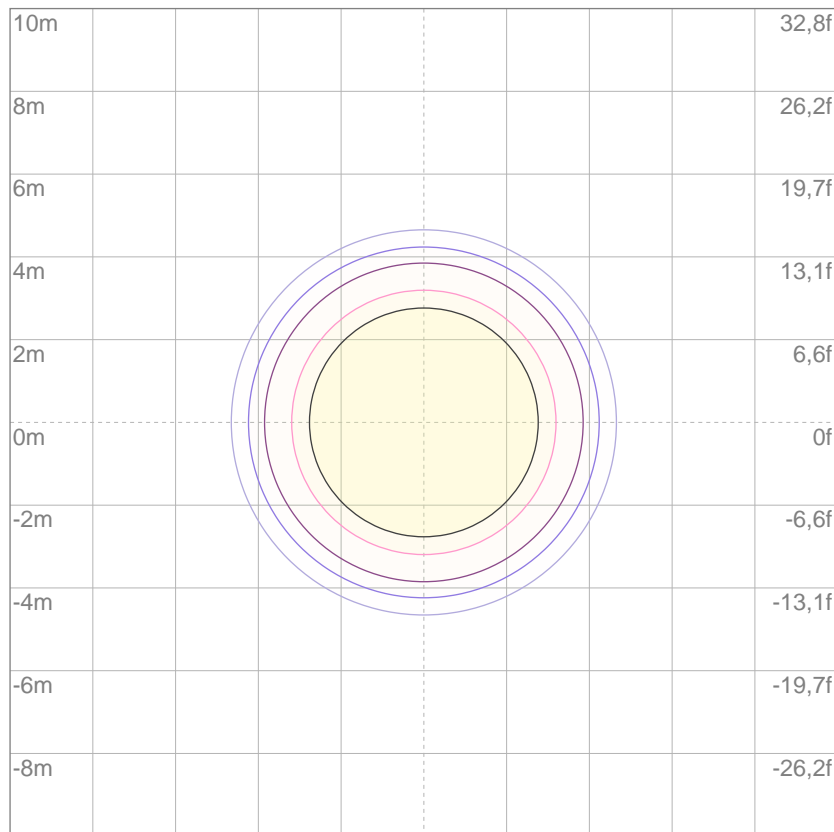
ISO CANDELA DIAGRAM



| | |
|-----|--------|
| 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

MEASURAMENT CONDITIONS:

Beam angle:

Wash25-50 Max Zoom

Target:

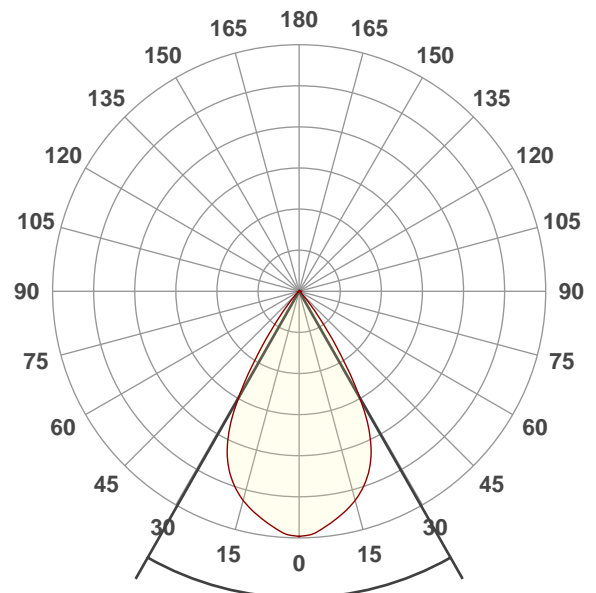
6000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:48:17

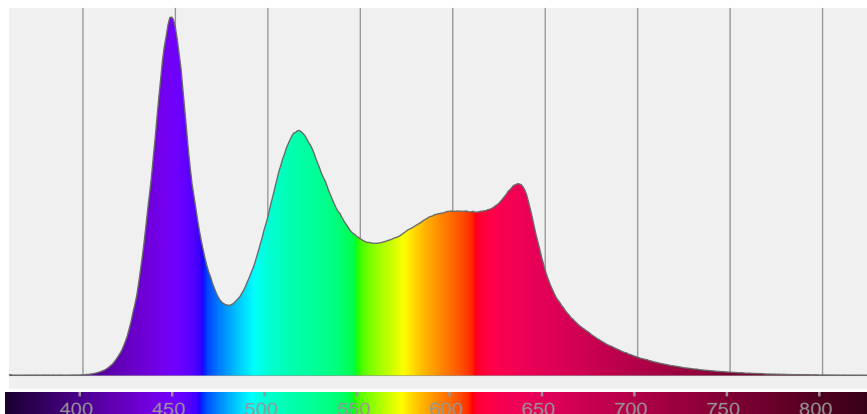


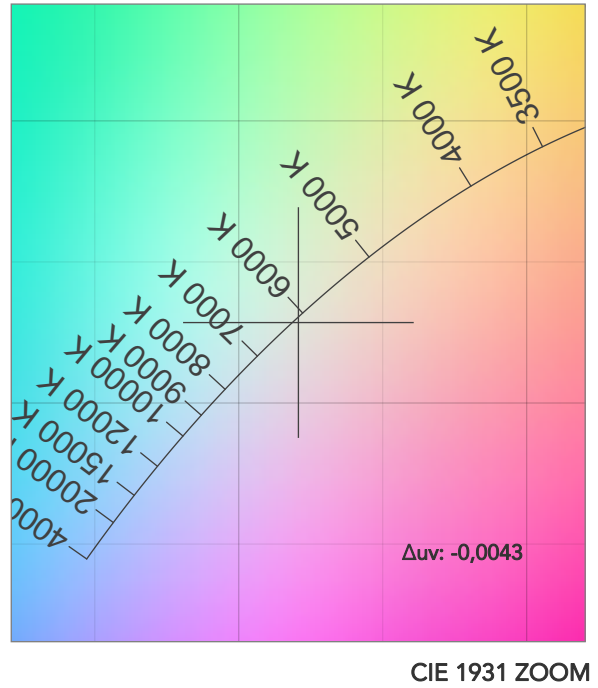
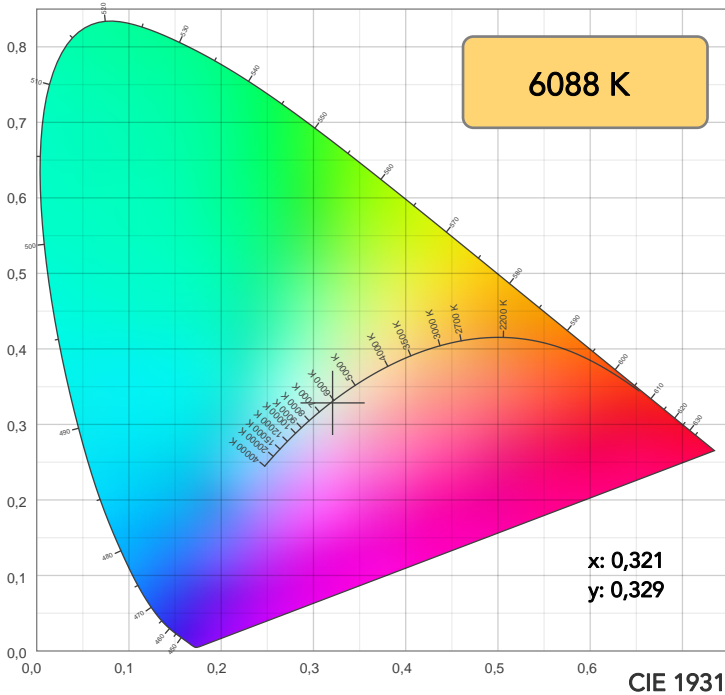
Beam angle 50%: 59,2°

Field angle 10%: 77,7°

Cut off angle 2.5%: 89,5°

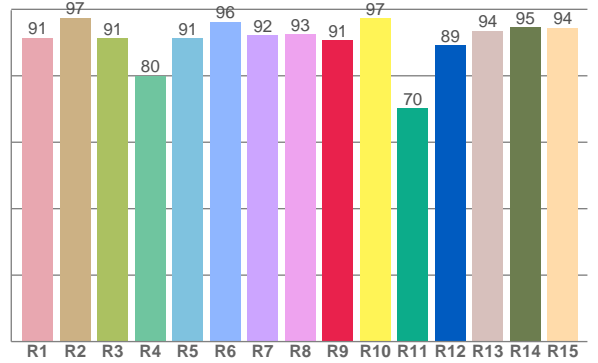
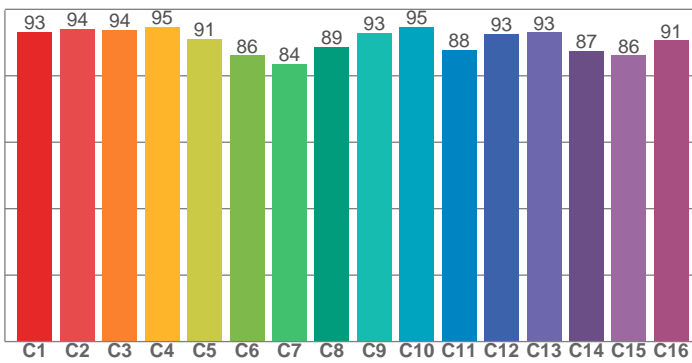
Spectra





TM30: 90,7

CRI: 91,6 (R1-R8)



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

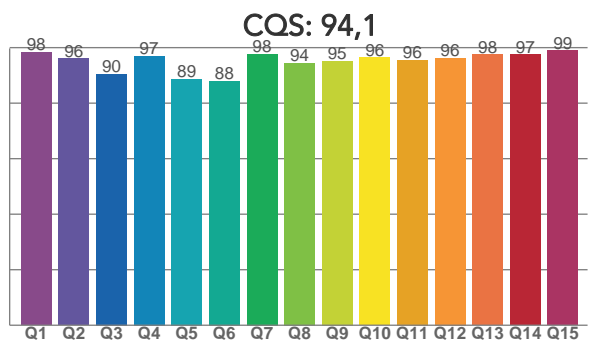
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,5 | 97,4 | 91,3 | 80,0 | 91,3 | 96,3 | 92,3 | 92,5 | 90,7 | 97,4 | 70,2 | 89,2 | 93,5 | 94,5 | 94,5 |

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 |



COLOR PARAMETERS

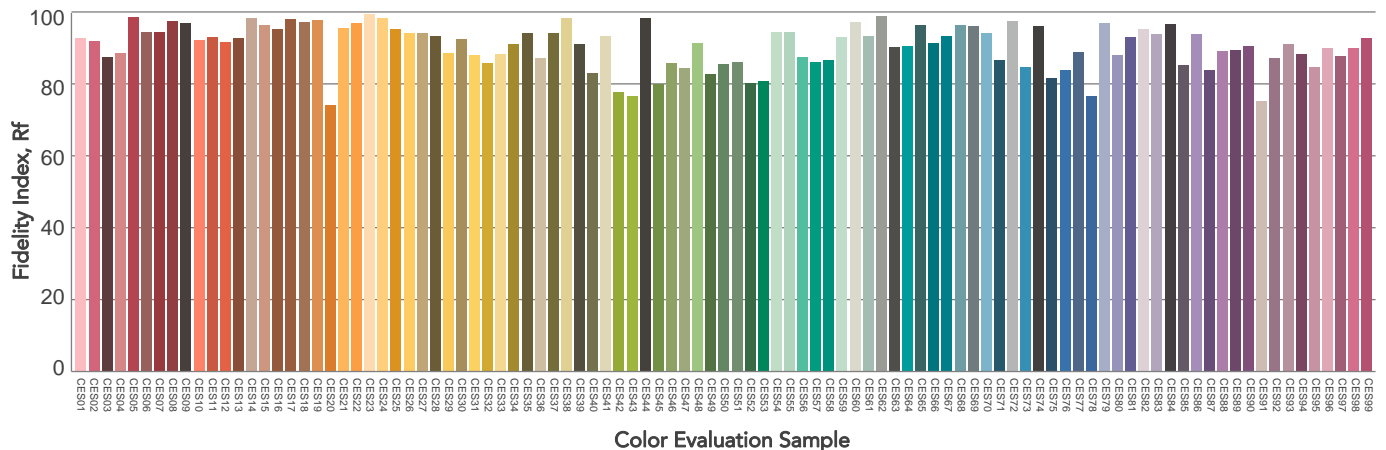
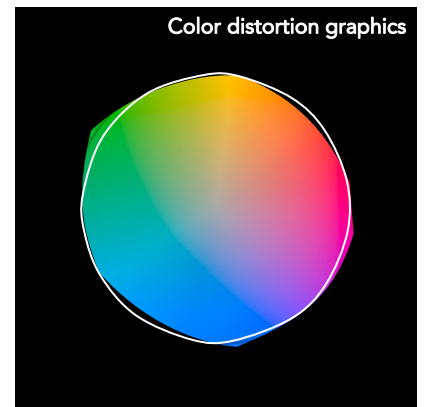
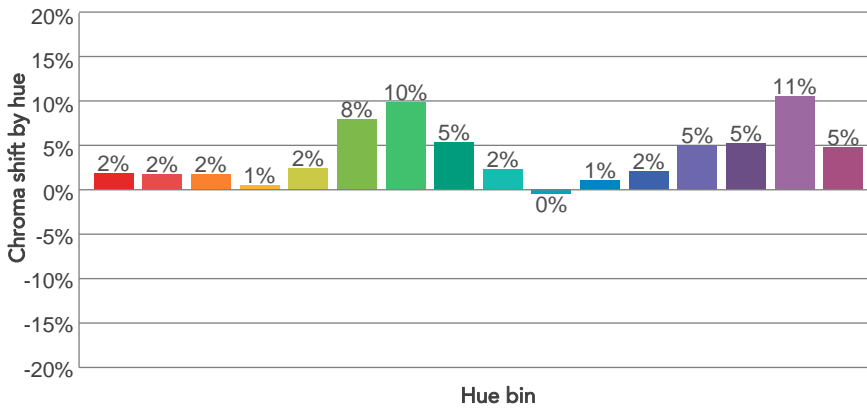
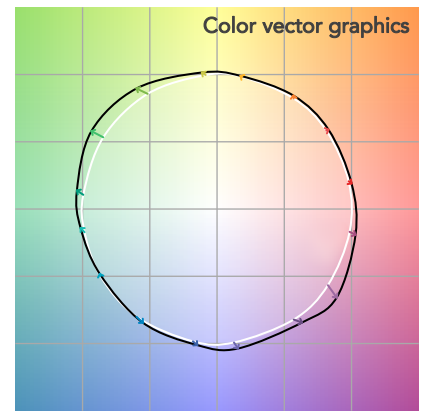
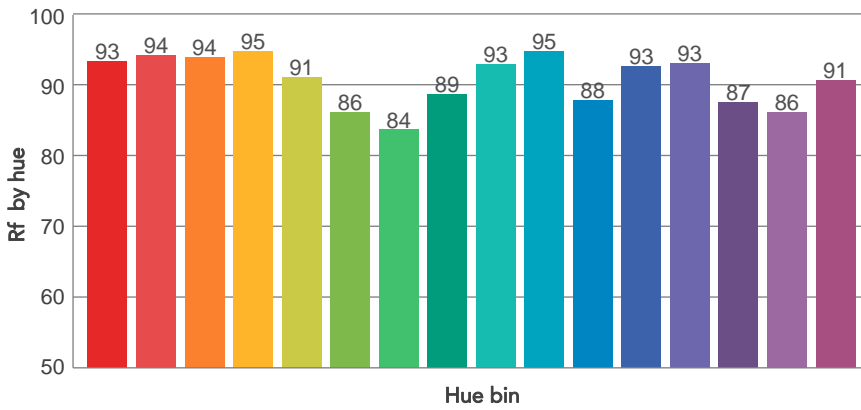
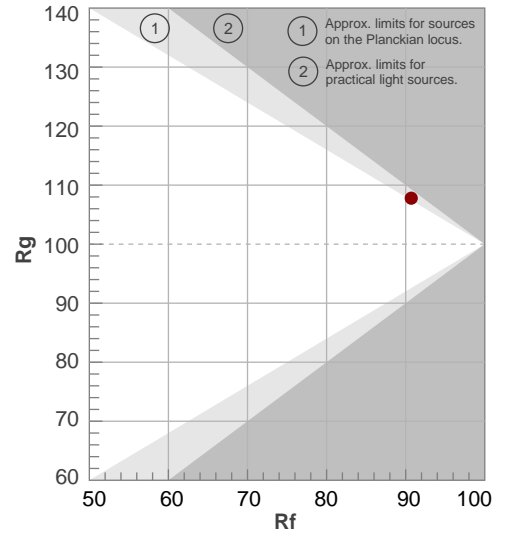
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| 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

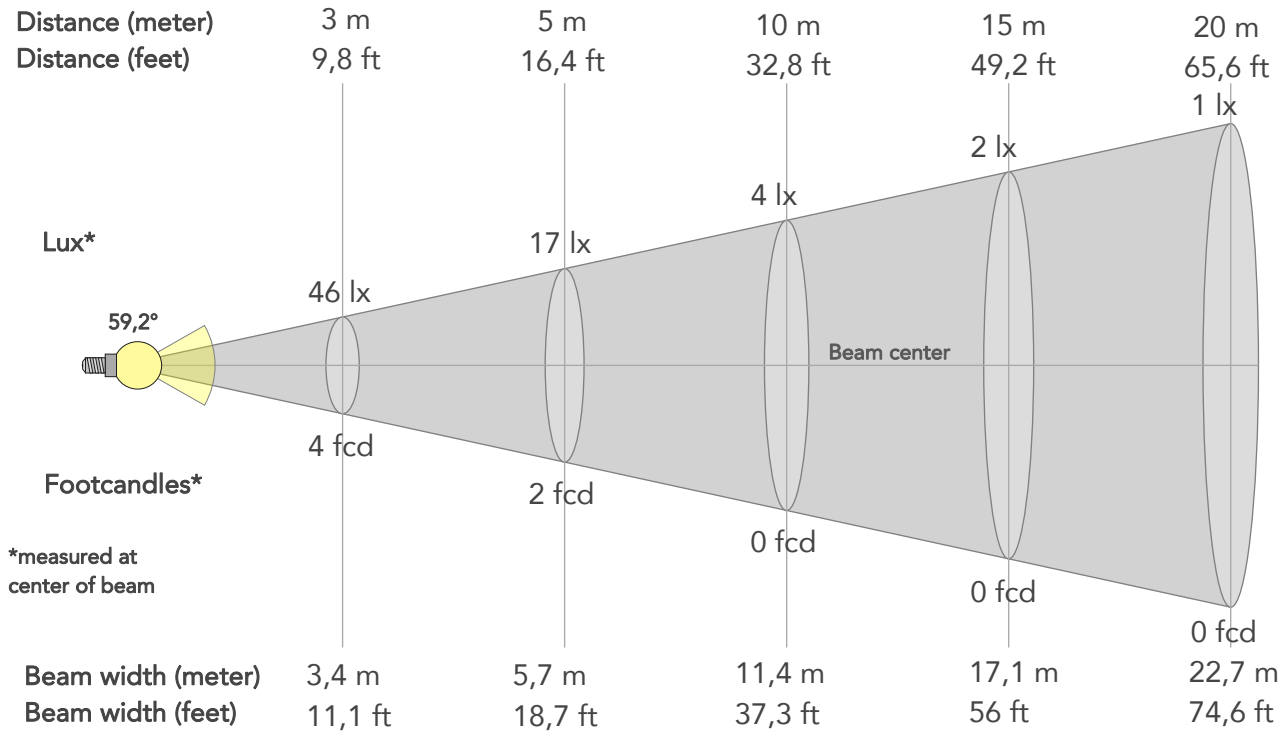
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 93 | 2% | -2% |
| 2 | 94 | 2% | 0% |
| 3 | 94 | 2% | 1% |
| 4 | 95 | 1% | 1% |
| 5 | 91 | 2% | 2% |
| 6 | 86 | 8% | 5% |
| 7 | 84 | 10% | 1% |
| 8 | 89 | 5% | -2% |
| 9 | 93 | 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



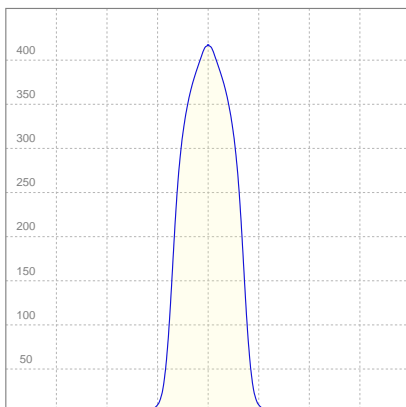
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 59,2° | 77,7° | 89,5° | 99,5% | 98,0% |



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 |

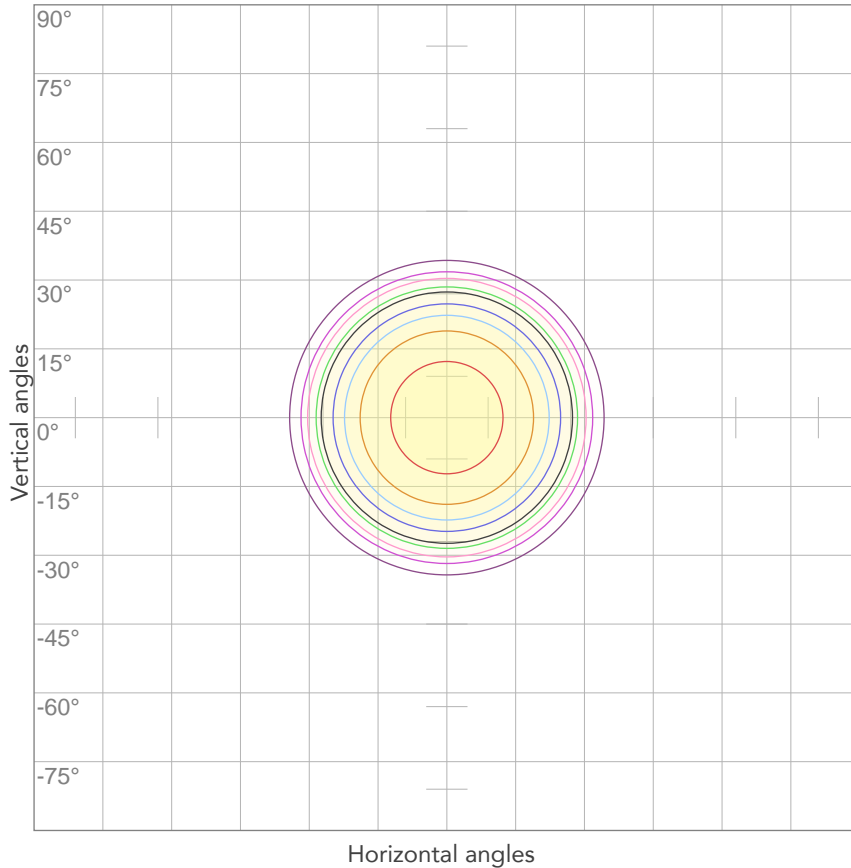
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM

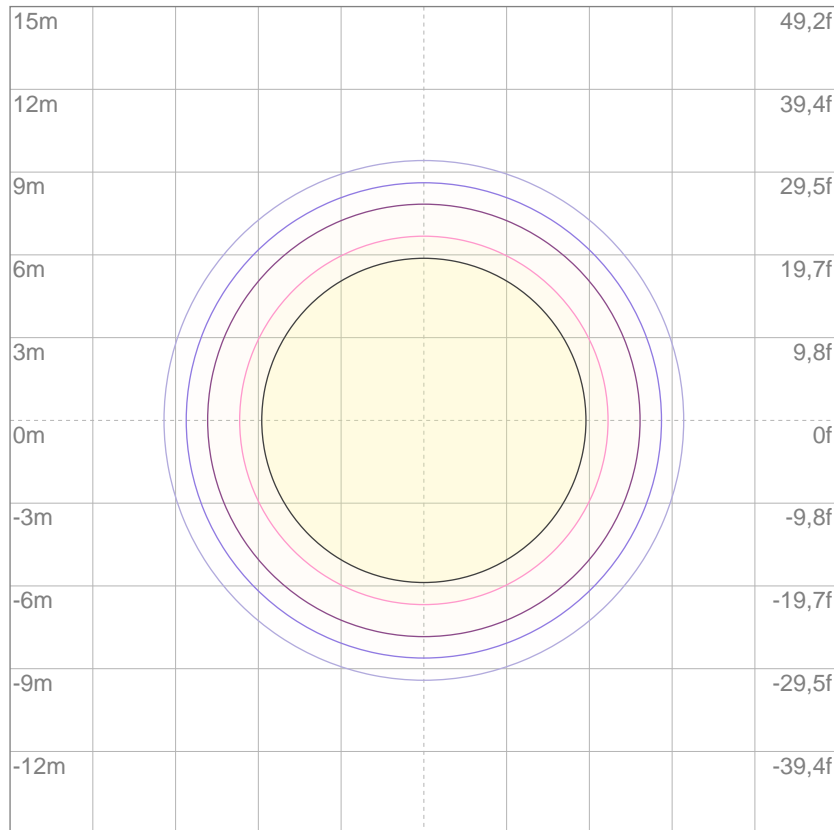


| | |
|-----|--------|
| 10% | 42 cd |
| 20% | 83 cd |
| 30% | 125 cd |
| 40% | 167 cd |
| 50% | 208 cd |
| 60% | 250 cd |
| 70% | 292 cd |
| 80% | 334 cd |

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

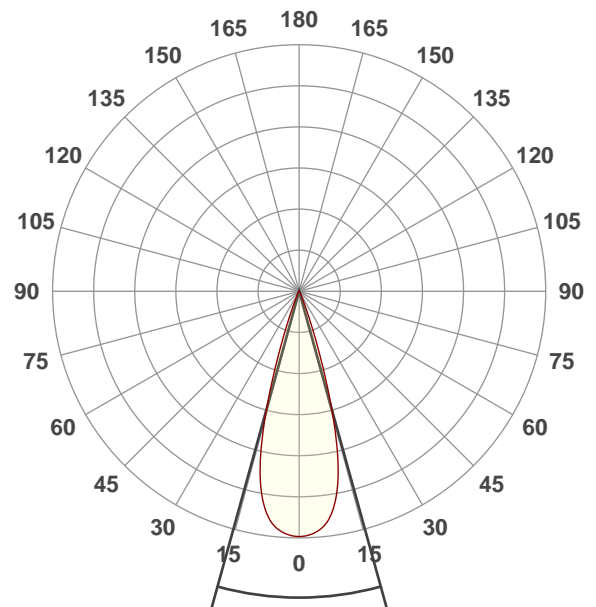
MEASURAMENT CONDITIONS:

Beam angle:
Wash25-50 Min Zoom

Target:
6000K

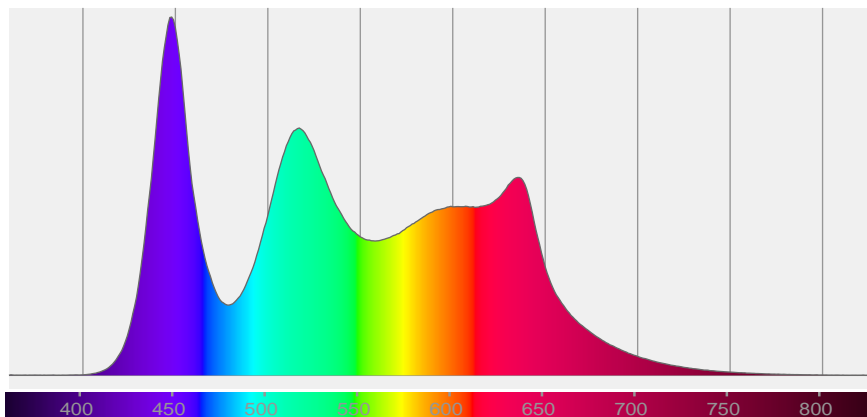
Operator:
Paolo Carvone

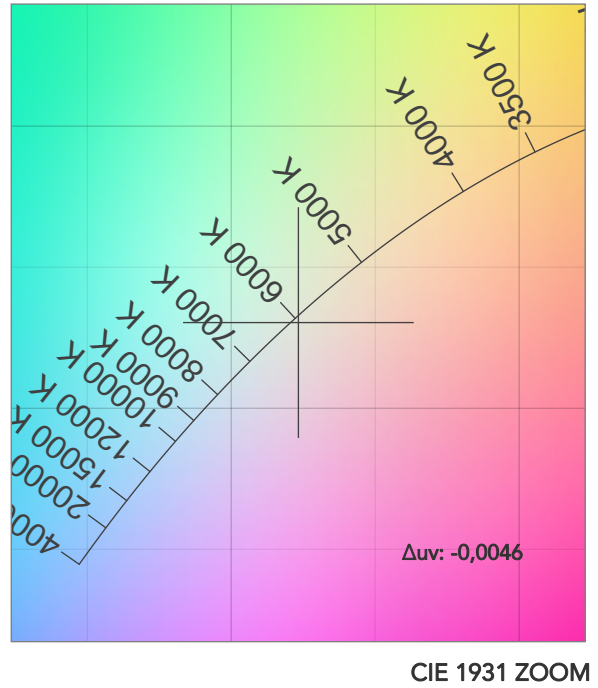
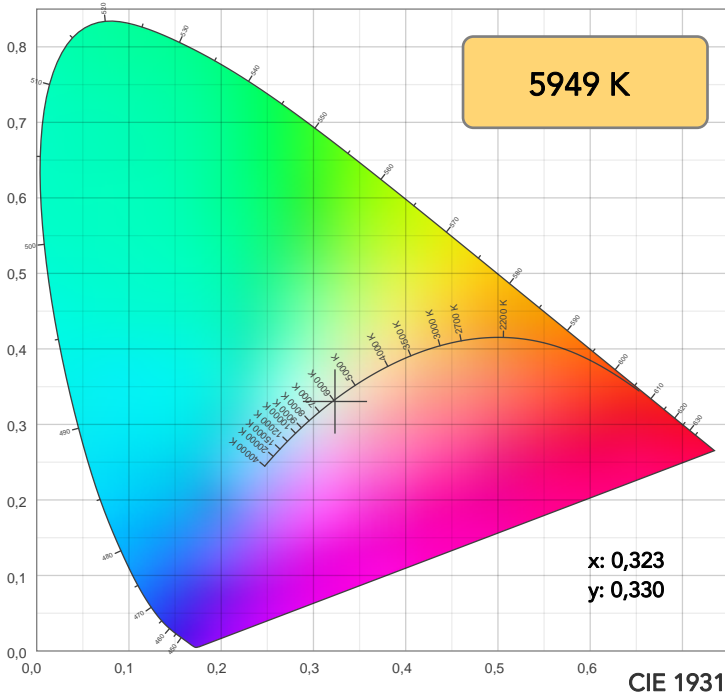
Date and time:
14/01/2021 12:46:35



Beam angle 50%: 30,9°
Field angle 10%: 42°
Cut off angle 2.5%: 51,9°

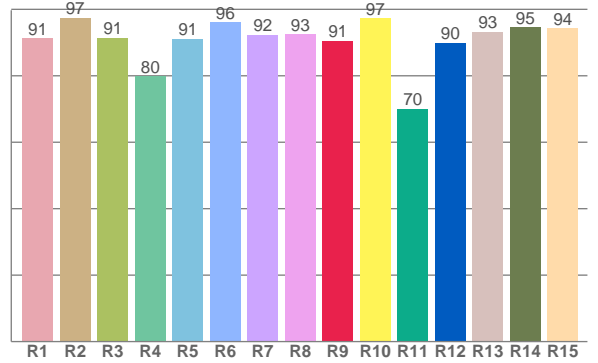
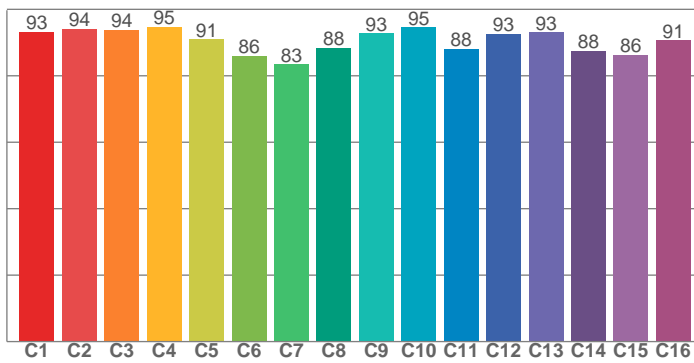
Spectra





TM30: 90,7

CRI: 91,5 (R1-R8)



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

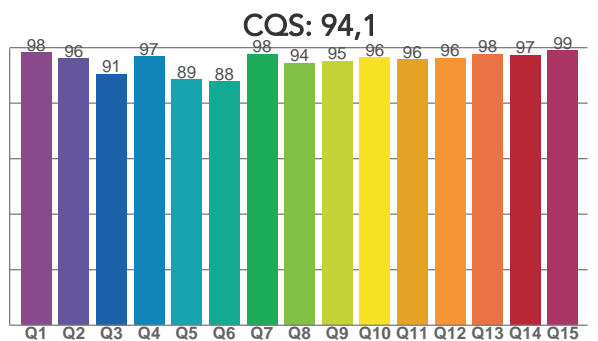
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,3 | 97,5 | 91,5 | 79,9 | 91,1 | 96,0 | 92,3 | 92,5 | 90,6 | 97,3 | 70,1 | 89,9 | 93,3 | 94,6 | 94,3 |

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

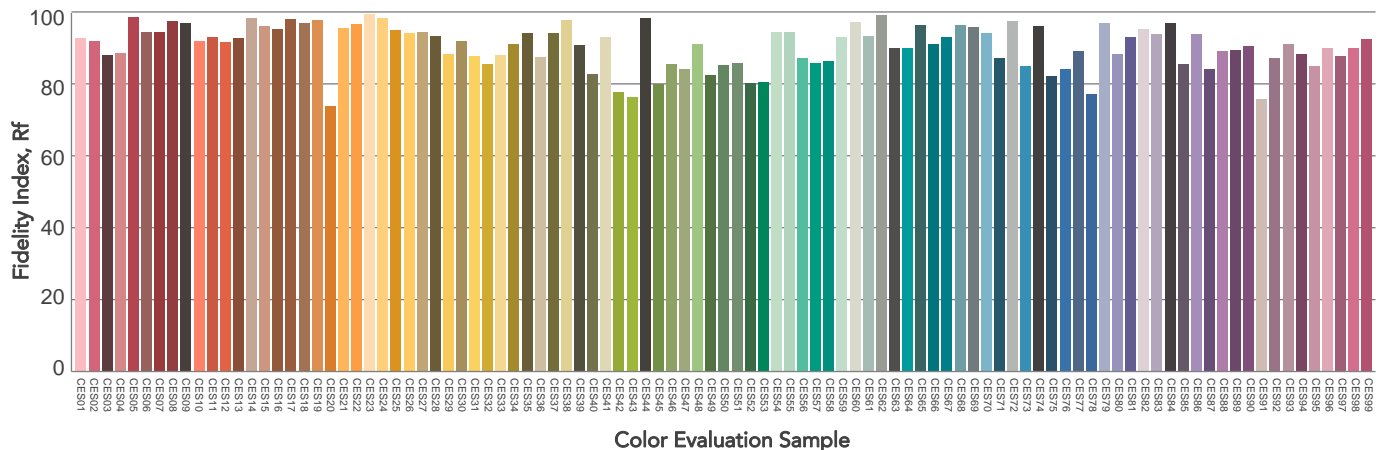
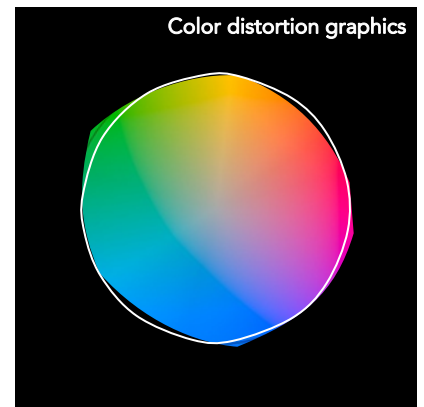
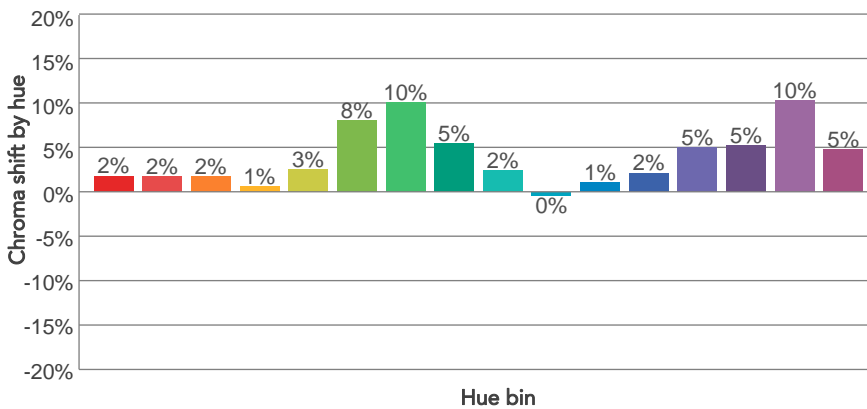
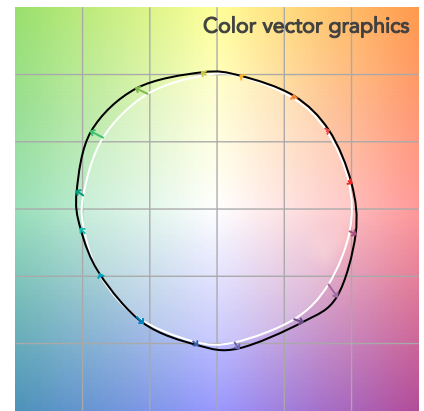
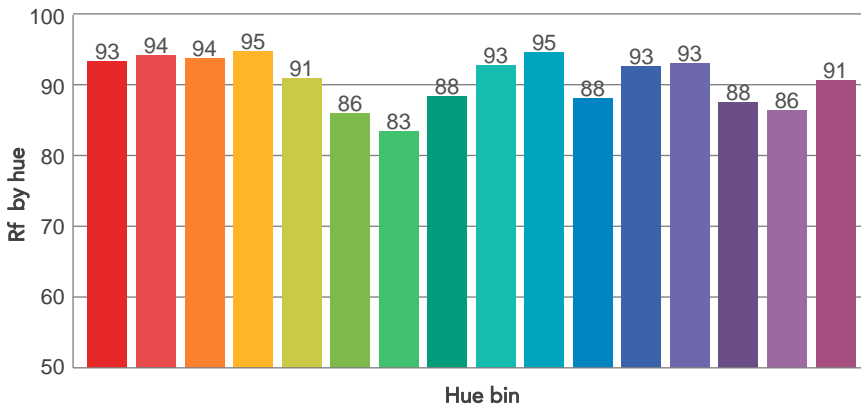
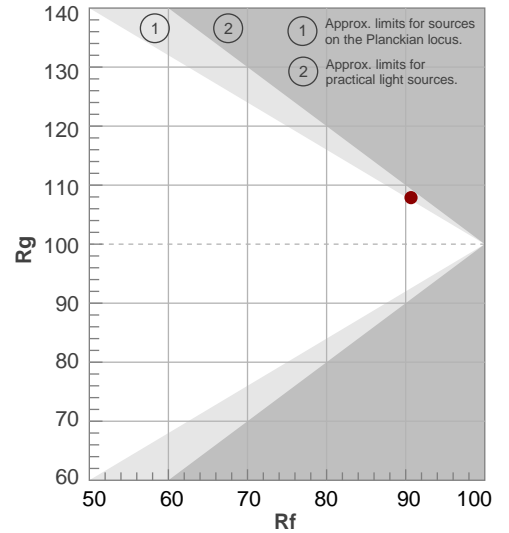
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| 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

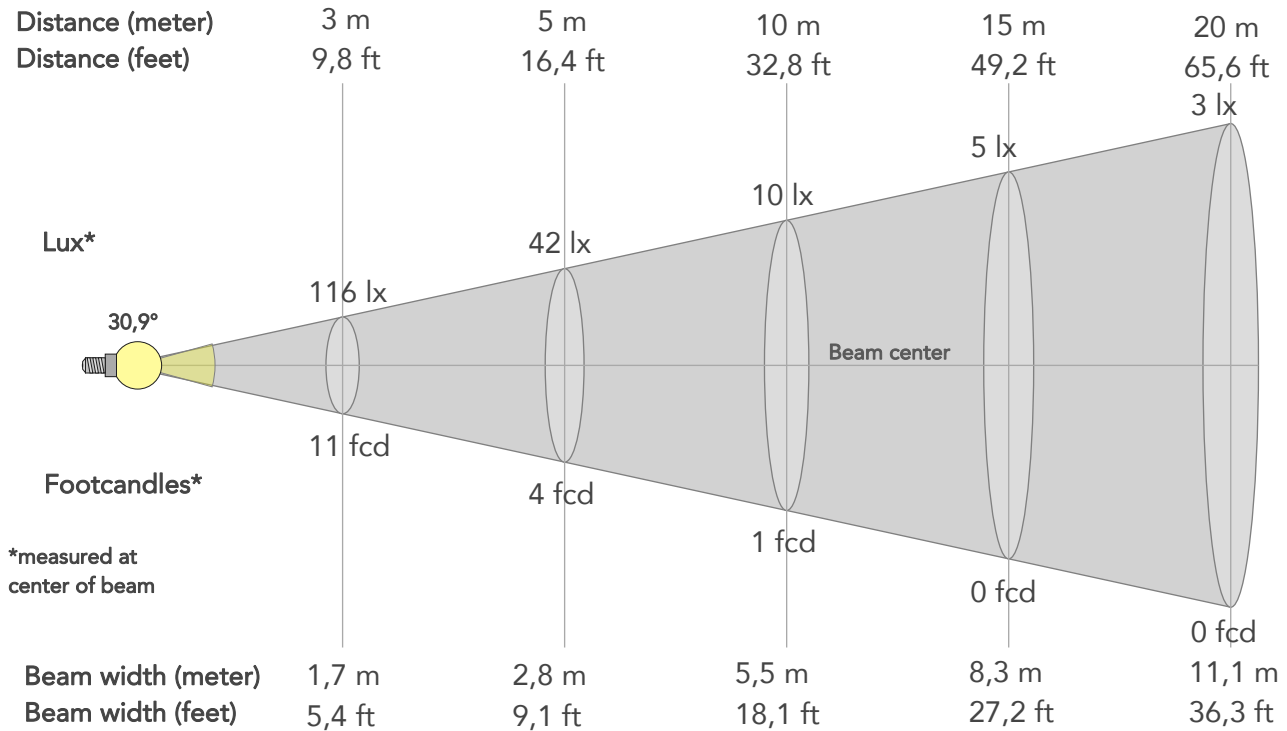
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 93 | 2% | -2% |
| 2 | 94 | 2% | 0% |
| 3 | 94 | 2% | 2% |
| 4 | 95 | 1% | 1% |
| 5 | 91 | 3% | 2% |
| 6 | 86 | 8% | 5% |
| 7 | 83 | 10% | 1% |
| 8 | 88 | 5% | -2% |
| 9 | 93 |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



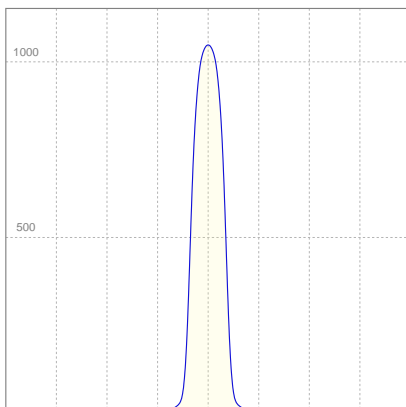
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 30,9° | 42° | 51,9° | 99,8% | 99,1% |



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 |

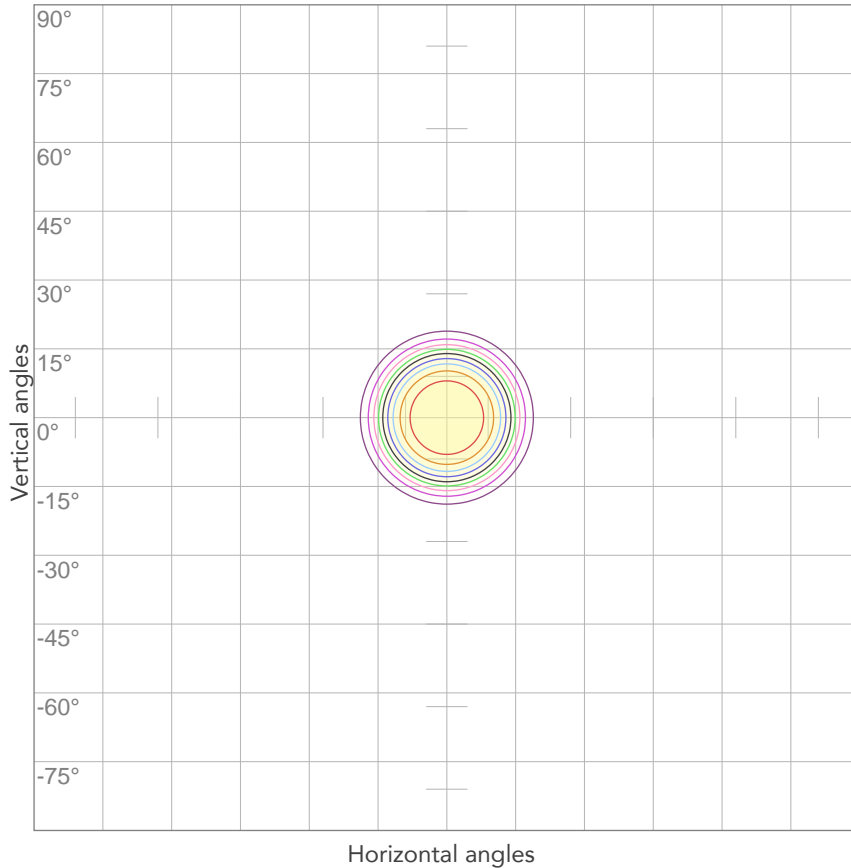
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



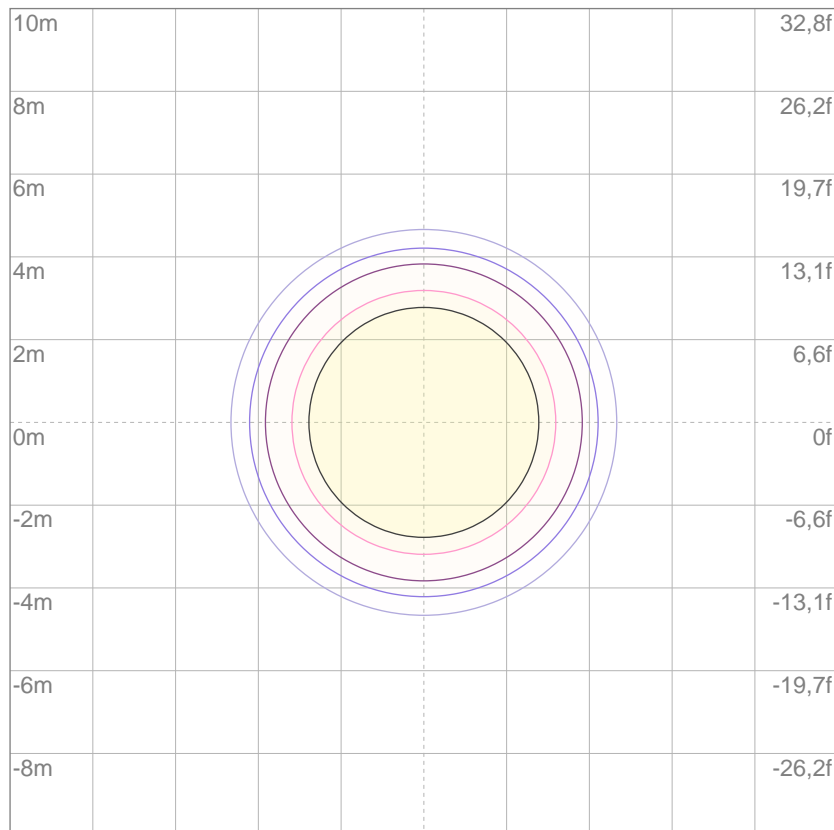
| | |
|-----|--------|
| 10% | 105 cd |
| 20% | 209 cd |
| 30% | 314 cd |
| 40% | 419 cd |
| 50% | 524 cd |
| 60% | 628 cd |
| 70% | 733 cd |
| 80% | 838 cd |

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.