

Photometric Test Report



ECLDISPLAYDATFC

ZOOMABLE WASH LENS 15-30°

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

DMX / Dali T8 / Knob-dimming

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TESTING PROCESS

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

Prolights measurement instrument

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

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

Prolights measurement software

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

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



Total lumen output:

322 lm

Peak candela output:

1363 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

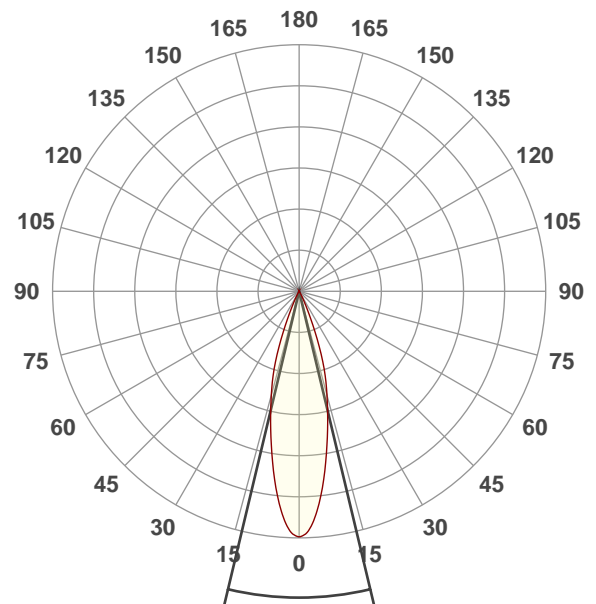
Full On

Operator:

Paolo Carvone

Date and time:

14/01/2021 11:52:44

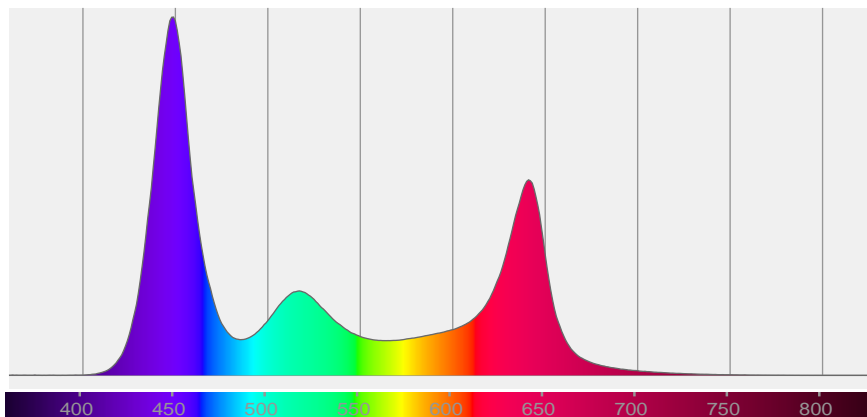


Beam angle 50%: 26,9°

Field angle 10%: 47,1°

Cut off angle 2.5%: 56,1°

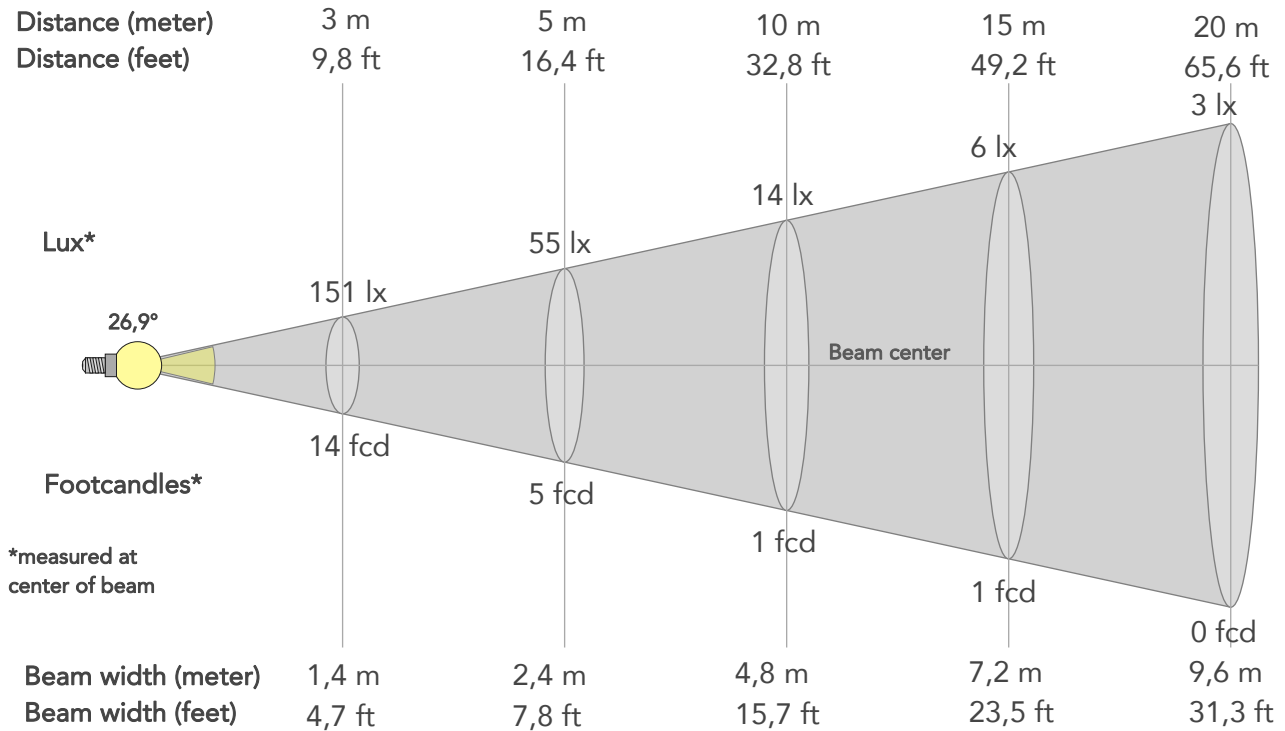
Spectra



BEAM DETAILS



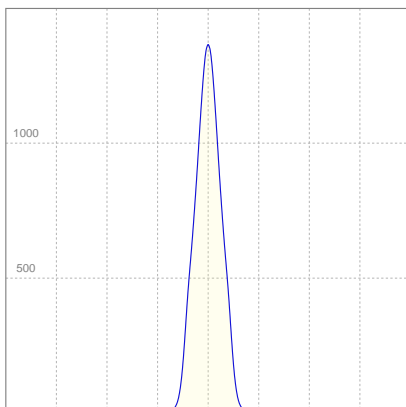
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 26,9° | 47,1° | 56,1° | 100,0% | 99,8% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1363lx | 341lx | 151lx | 85lx | 55lx | 24lx | 14lx | 6lx | 3lx | 2lx | 2lx | 1lx | 1lx |
| Footcand. | 127fcd | 32fcd | 14fcd | 8fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,5m | 1m | 1,4m | 1,9m | 2,4m | 3,6m | 4,8m | 7,2m | 9,6m | 11,9m | 14,3m | 19,1m | 23,9m |
| Beam wid. | 1,6ft | 3,2ft | 4,7ft | 6,3ft | 7,8ft | 11,7ft | 15,7ft | 23,5ft | 31,3ft | 39,2ft | 47ft | 62,6ft | 78,3ft |

LINEAR DISTRIBUTION DIAGRAM

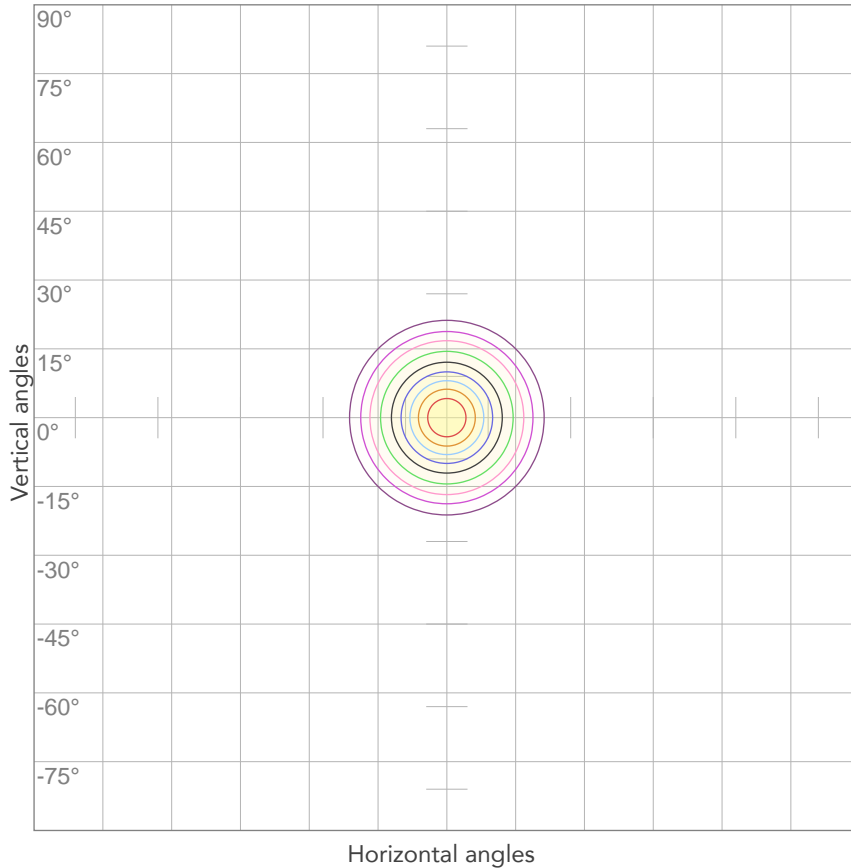


ELECTRICAL SPECIFICATIONS

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

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

ISO CANDELA DIAGRAM



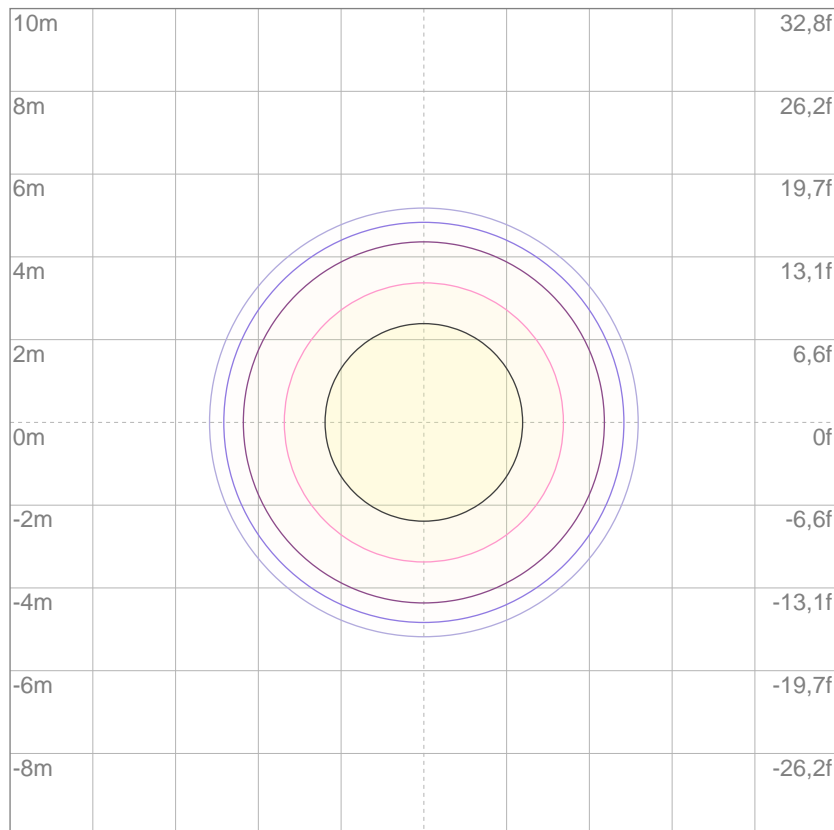
| | |
|-----|---------|
| 10% | 136 cd |
| 20% | 273 cd |
| 30% | 409 cd |
| 40% | 545 cd |
| 50% | 681 cd |
| 60% | 818 cd |
| 70% | 954 cd |
| 80% | 1090 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1363 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 13,6 lx

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



Total lumen output:

289 lm

Peak candela output:

2843 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

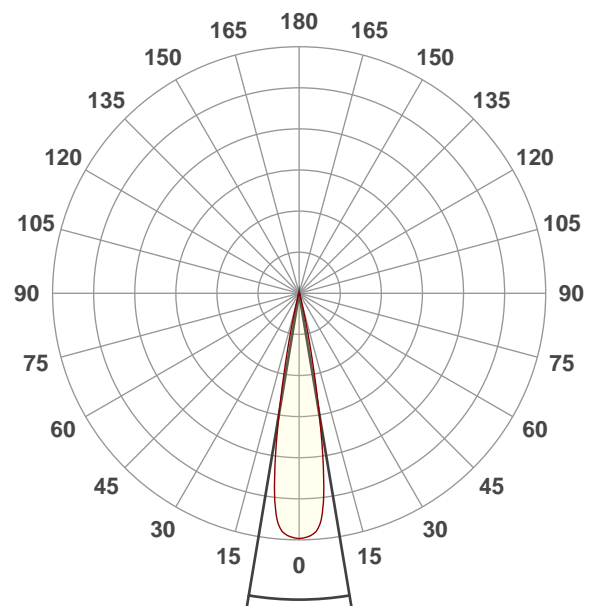
Full On

Operator:

Paolo Carvone

Date and time:

14/01/2021 11:50:04

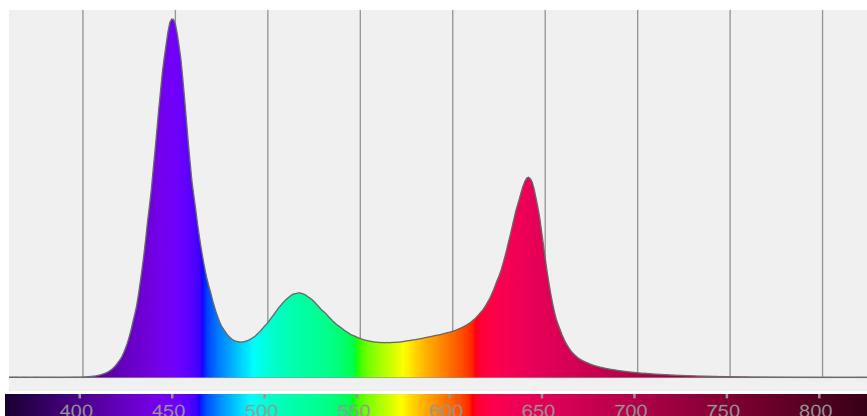


Beam angle 50%: 18,9°

Field angle 10%: 27°

Cut off angle 2.5%: 34,2°

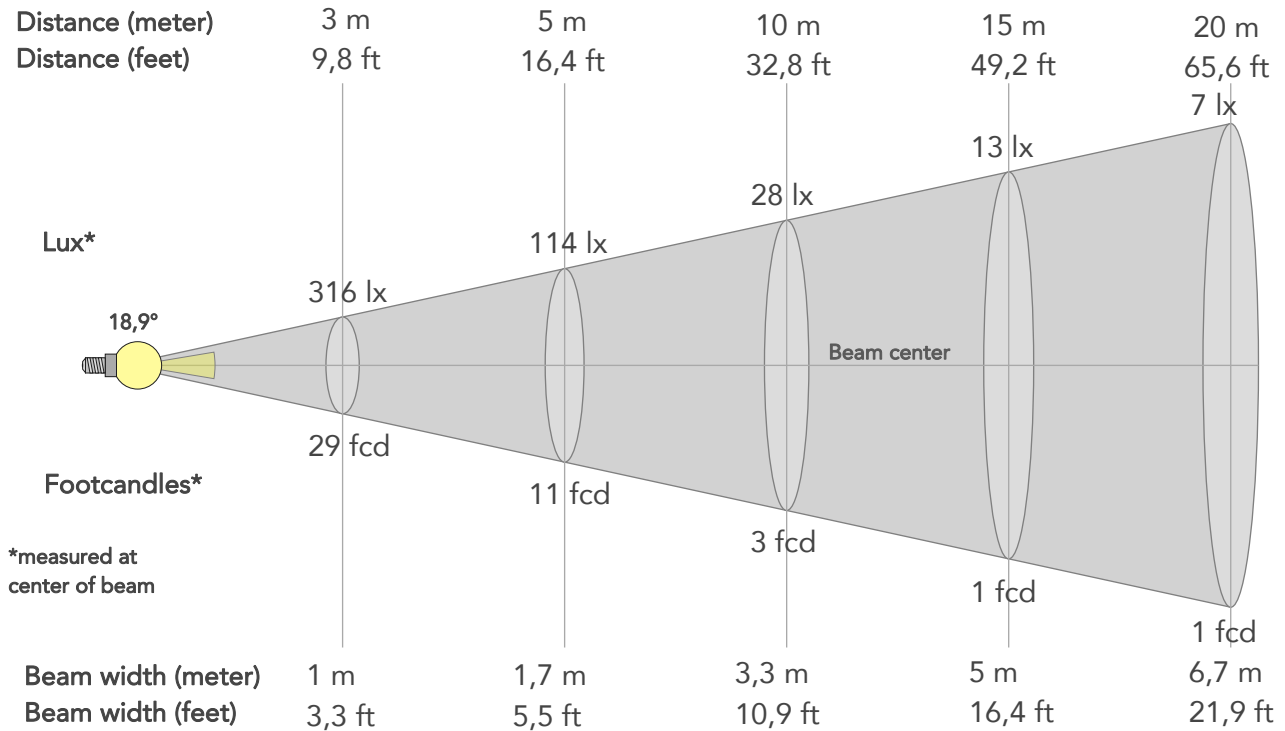
Spectra



BEAM DETAILS



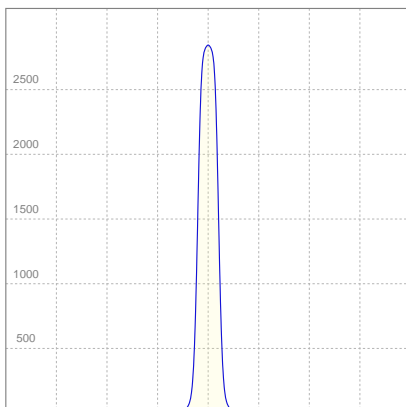
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 18,9° | 27° | 34,2° | 100,0% | 99,9% |



BEAM INTENSITIES AND WIDTHS

| | | | | | | | | | | | | | |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 2843lx | 711lx | 316lx | 178lx | 114lx | 51lx | 28lx | 13lx | 7lx | 5lx | 3lx | 2lx | 1lx |
| Footcand. | 264fcd | 66fcd | 29fcd | 17fcd | 11fcd | 5fcd | 3fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,3m | 0,7m | 1m | 1,3m | 1,7m | 2,5m | 3,3m | 5m | 6,7m | 8,3m | 10m | 13,3m | 16,7m |
| Beam wid. | 1,1ft | 2,2ft | 3,3ft | 4,4ft | 5,5ft | 8,2ft | 10,9ft | 16,4ft | 21,9ft | 27,4ft | 32,8ft | 43,8ft | 54,7ft |

LINEAR DISTRIBUTION DIAGRAM

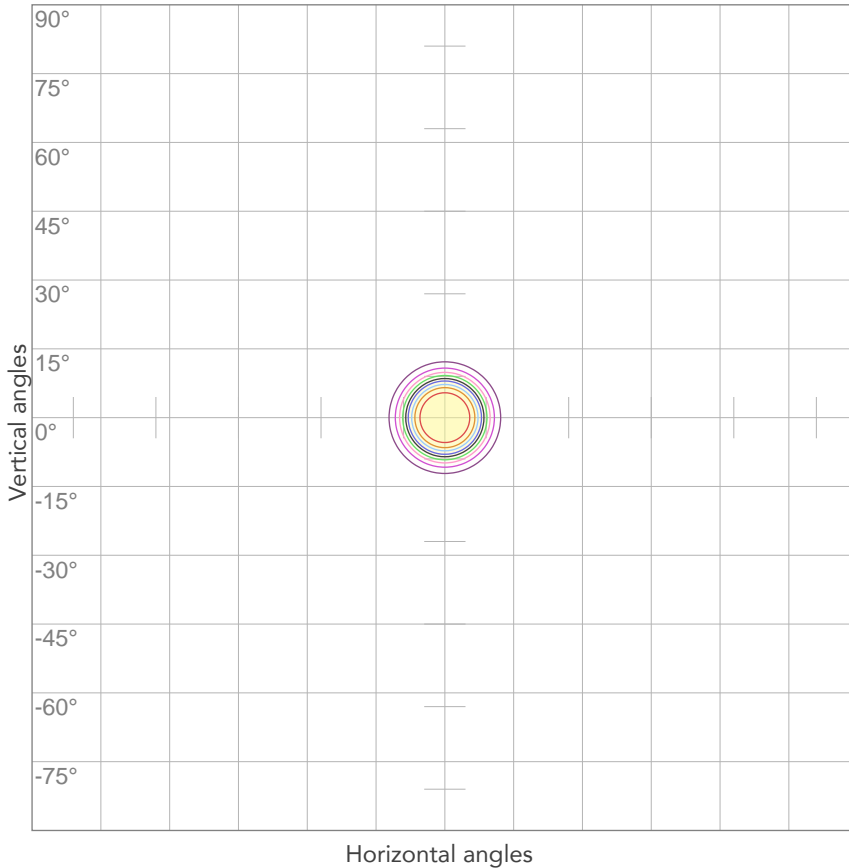


ELECTRICAL SPECIFICATIONS

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

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

ISO CANDELA DIAGRAM



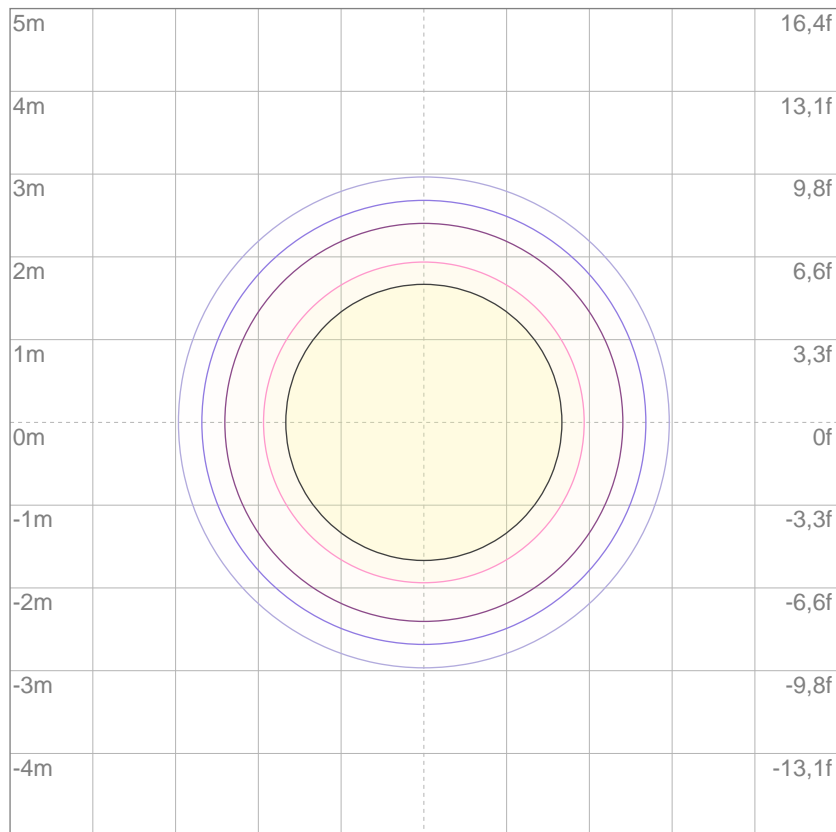
| | |
|-----|---------|
| 10% | 284 cd |
| 20% | 569 cd |
| 30% | 853 cd |
| 40% | 1137 cd |
| 50% | 1421 cd |
| 60% | 1706 cd |
| 70% | 1990 cd |
| 80% | 2274 cd |

Conditions:

Number of c-planes: 2

Candela at center: 2843 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 28,4 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

81,6 lm

Peak candela output:

354 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

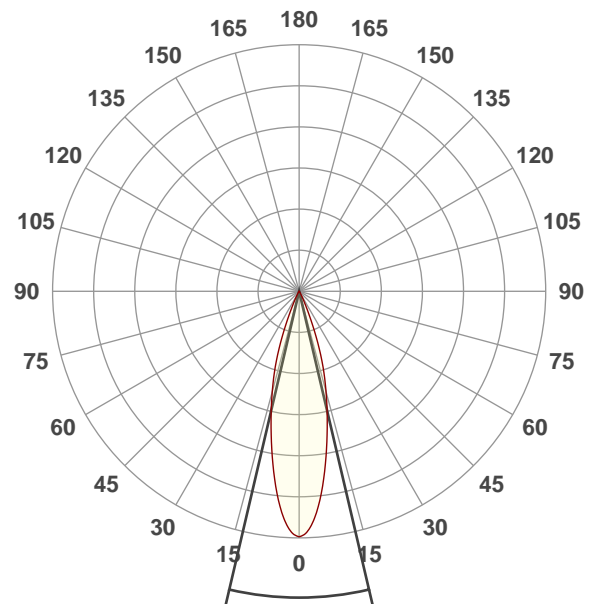
Red

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:33:12

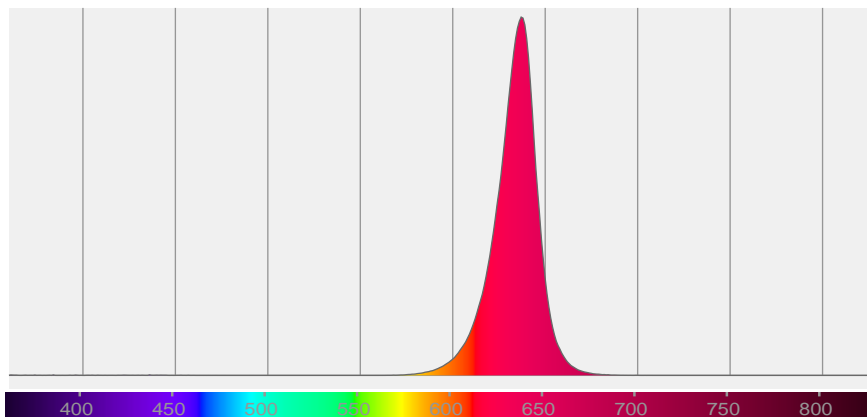


Beam angle 50%: 26,4°

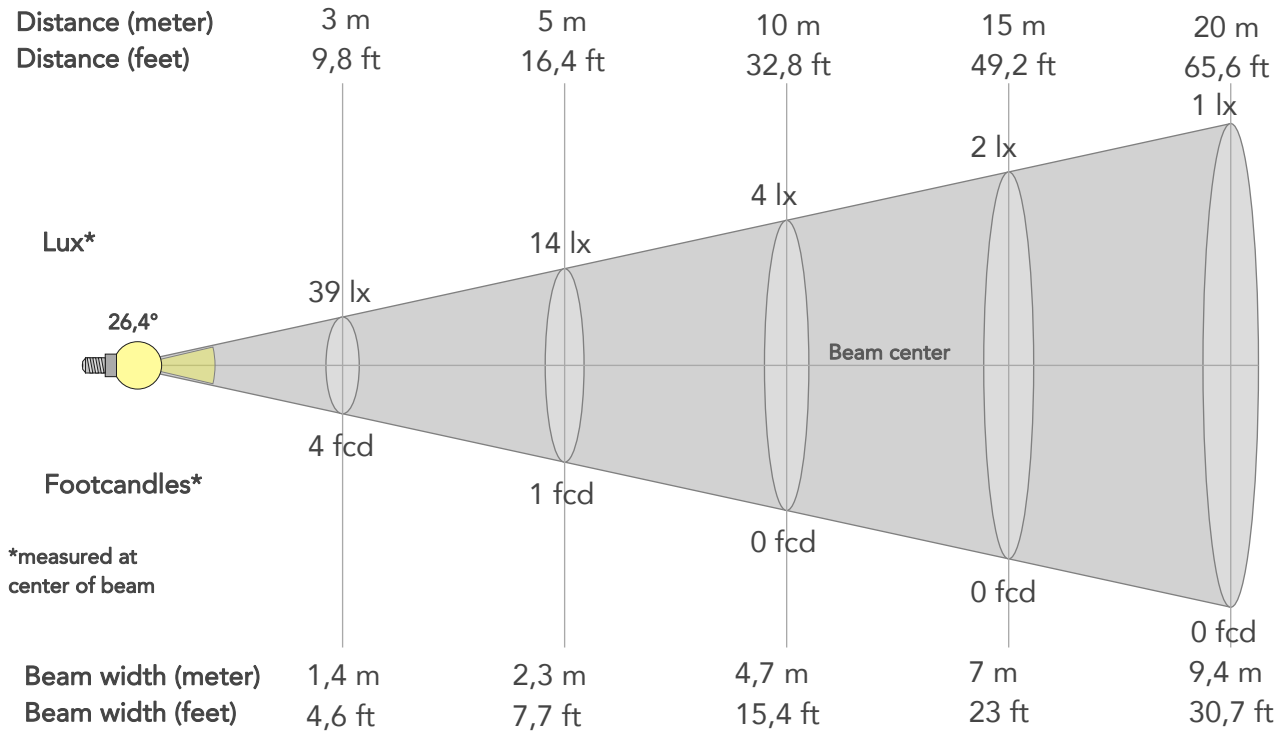
Field angle 10%: 46,3°

Cut off angle 2.5%: 55,7°

Spectra



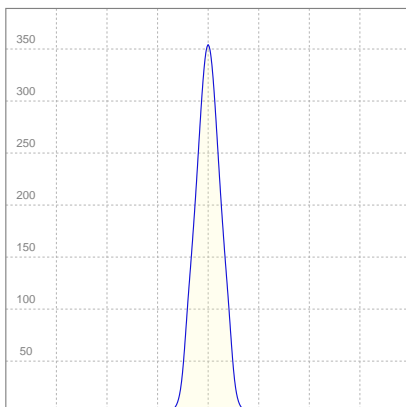
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 26,4° | 46,3° | 55,7° | 99,8% | 99,3% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 354lx | 88lx | 39lx | 22lx | 14lx | 6lx | 4lx | 2lx | 1lx | 1lx | 0lx | 0lx | 0lx |
| Footcand. | 33fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,5m | 0,9m | 1,4m | 1,9m | 2,3m | 3,5m | 4,7m | 7m | 9,4m | 11,7m | 14,1m | 18,7m | 23,4m |
| Beam wid. | 1,5ft | 3,1ft | 4,6ft | 6,1ft | 7,7ft | 11,5ft | 15,4ft | 23ft | 30,7ft | 38,4ft | 46,1ft | 61,5ft | 76,8ft |

LINEAR DISTRIBUTION DIAGRAM

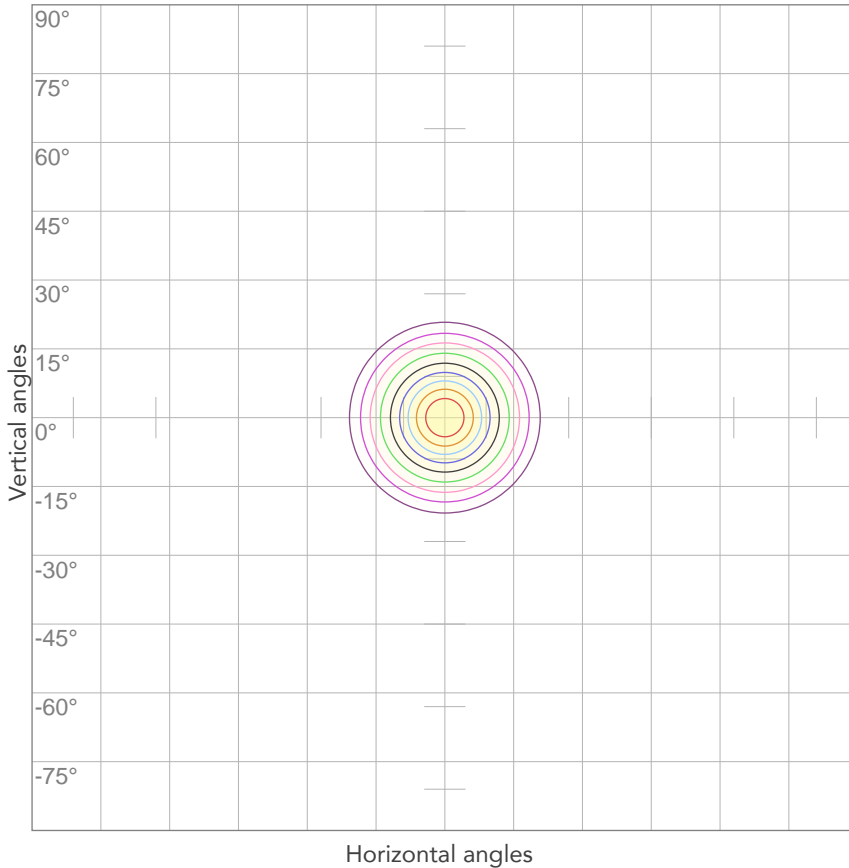


ELECTRICAL SPECIFICATIONS

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

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

ISO CANDELA DIAGRAM

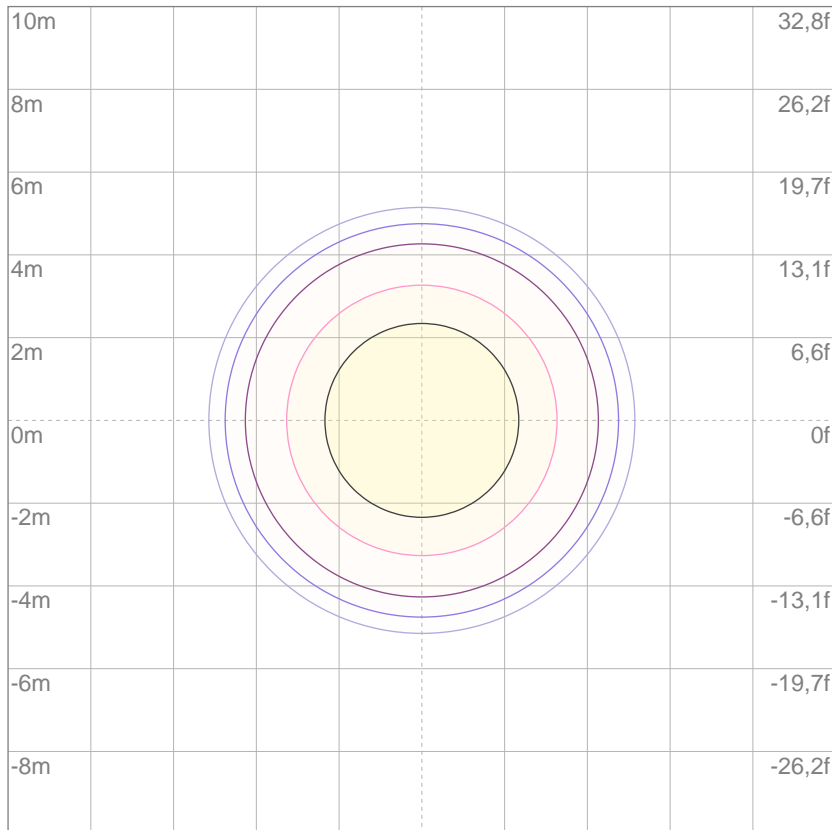


| | |
|-----|--------|
| 10% | 35 cd |
| 20% | 71 cd |
| 30% | 106 cd |
| 40% | 141 cd |
| 50% | 177 cd |
| 60% | 212 cd |
| 70% | 248 cd |
| 80% | 283 cd |

Conditions:

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

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

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

Conditions:

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

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



Total lumen output:

73,6 lm

Peak candela output:

722 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

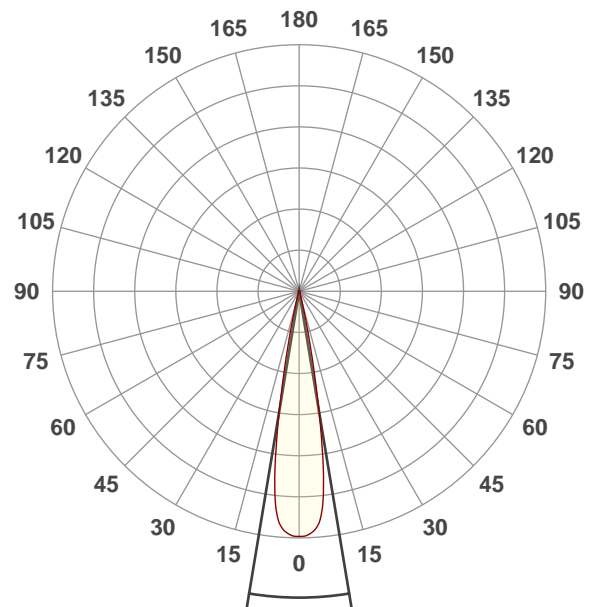
Red

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:46:59

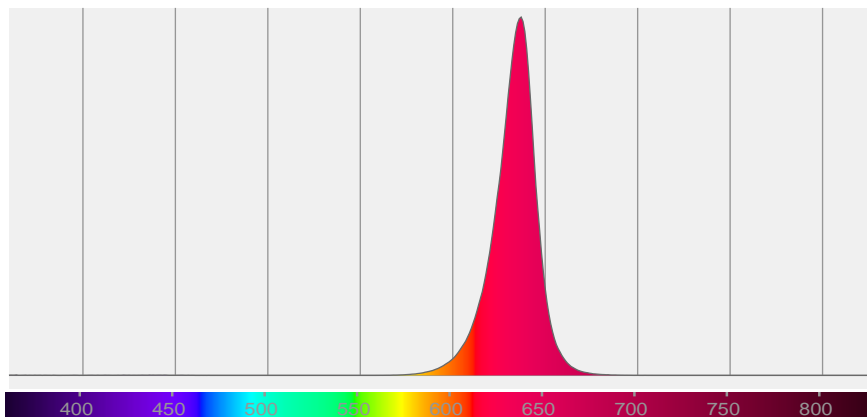


Beam angle 50%: 18,8°

Field angle 10%: 27°

Cut off angle 2.5%: 34,5°

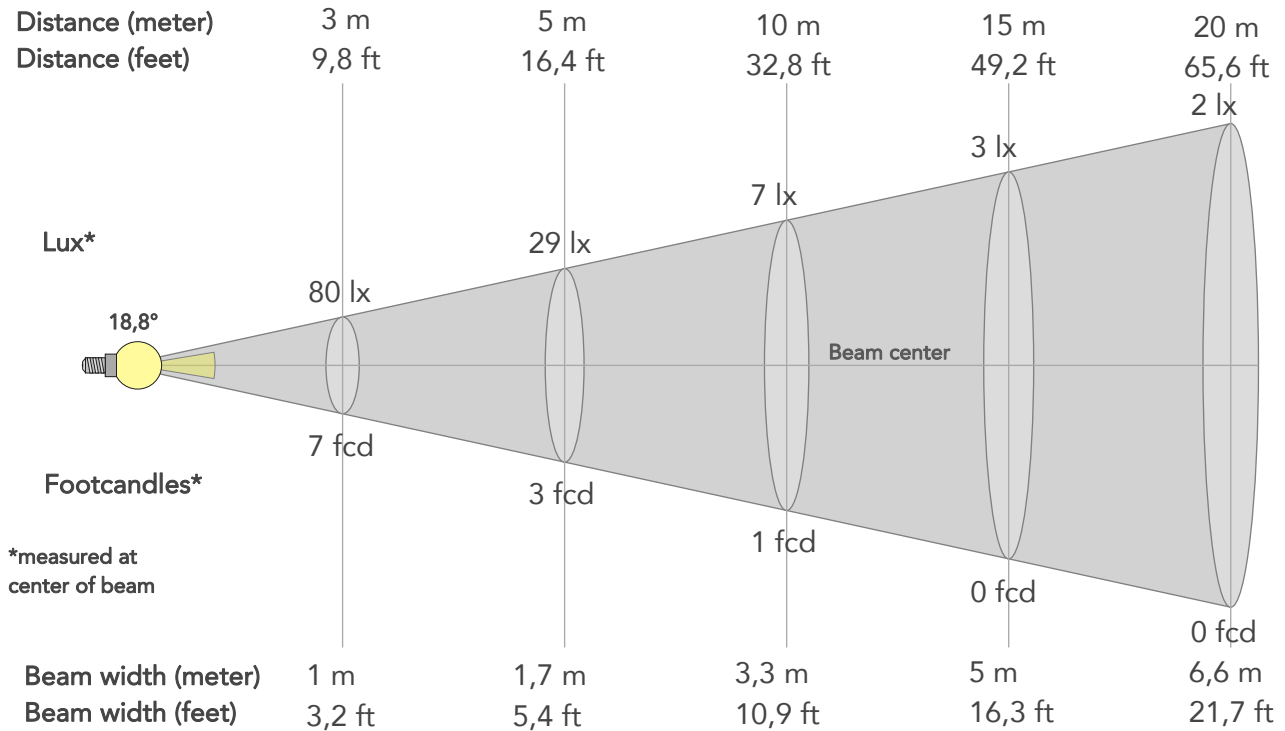
Spectra



BEAM DETAILS



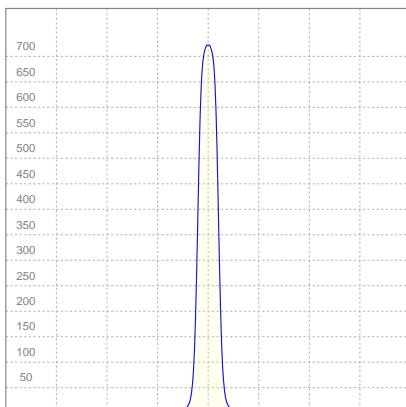
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 18,8° | 27° | 34,5° | 99,9% | 99,6% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 722lx | 180lx | 80lx | 45lx | 29lx | 13lx | 7lx | 3lx | 2lx | 1lx | 1lx | 0lx | 0lx |
| Footcand. | 67fcd | 17fcd | 7fcd | 4fcd | 3fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,3m | 0,7m | 1m | 1,3m | 1,7m | 2,5m | 3,3m | 5m | 6,6m | 8,3m | 9,9m | 13,2m | 16,6m |
| Beam wid. | 1,1ft | 2,2ft | 3,2ft | 4,3ft | 5,4ft | 8,1ft | 10,9ft | 16,3ft | 21,7ft | 27,1ft | 32,6ft | 43,4ft | 54,3ft |

LINEAR DISTRIBUTION DIAGRAM

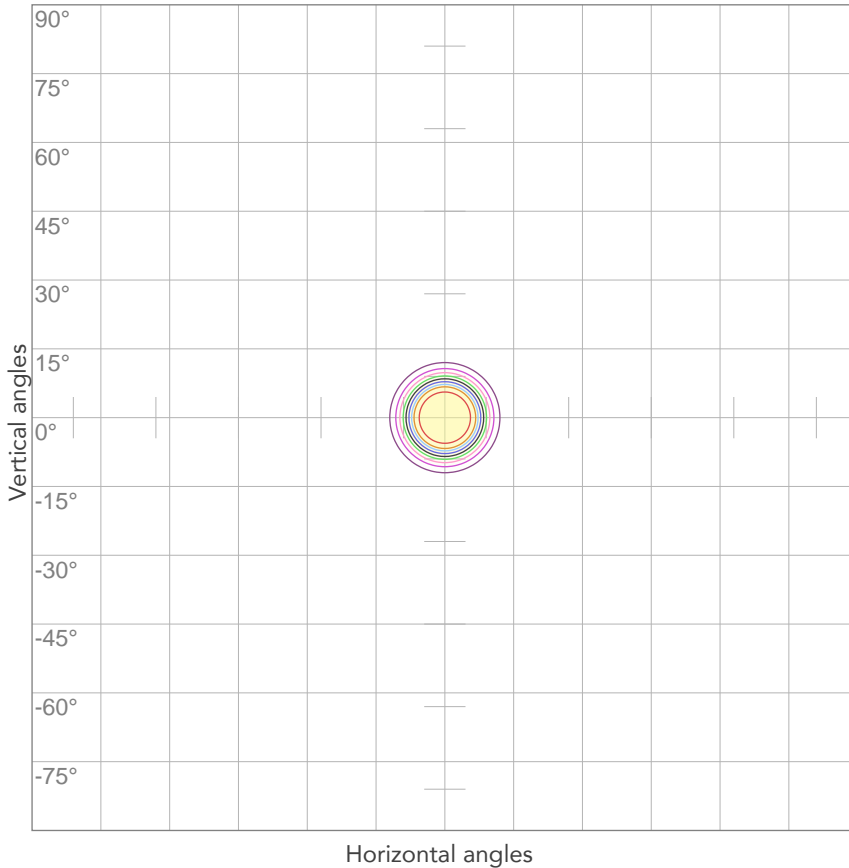


ELECTRICAL SPECIFICATIONS

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

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

ISO CANDELA DIAGRAM

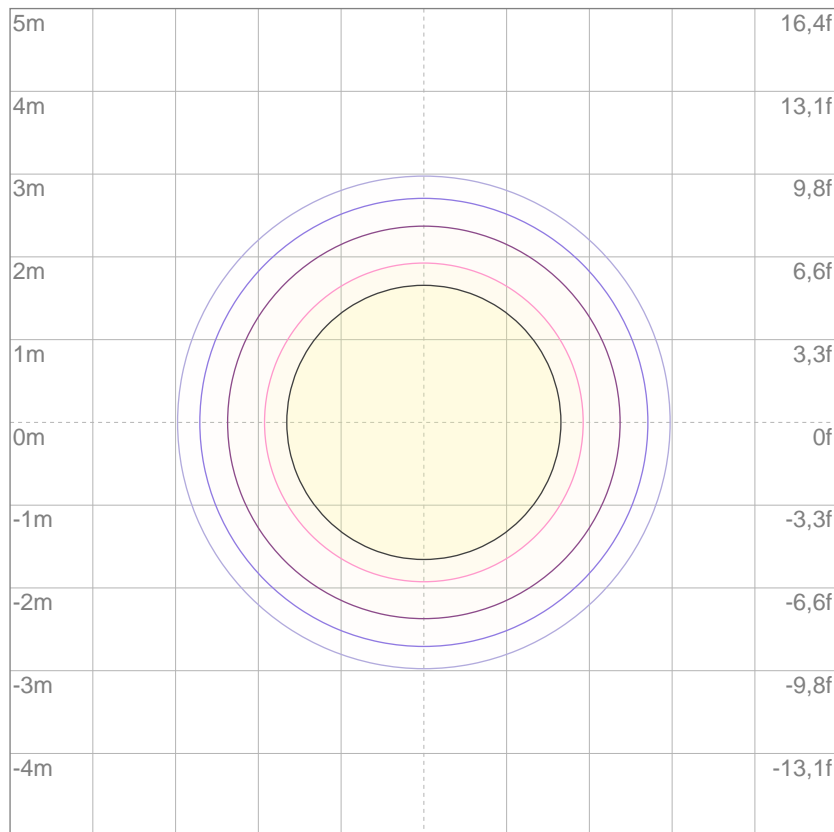


| | |
|-----|--------|
| 10% | 72 cd |
| 20% | 144 cd |
| 30% | 217 cd |
| 40% | 289 cd |
| 50% | 361 cd |
| 60% | 433 cd |
| 70% | 505 cd |
| 80% | 577 cd |

Conditions:

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

ISO LUX DIAGRAM



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

Conditions:

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

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

Mounting height: 10 meters (33 feet)



Total lumen output:

186 lm

Peak candela output:

781 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

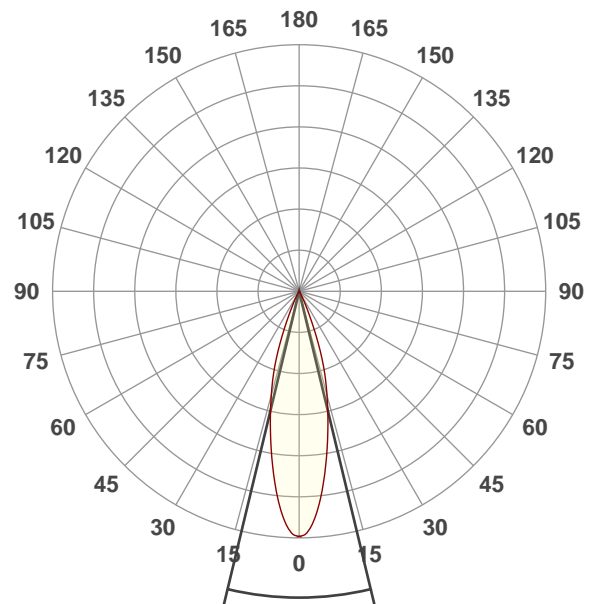
Green

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:35:32

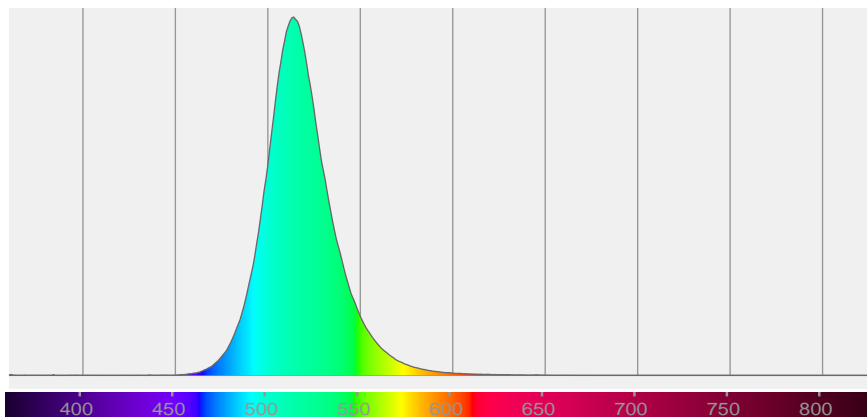


Beam angle 50%: 27°

Field angle 10%: 47°

Cut off angle 2.5%: 56,5°

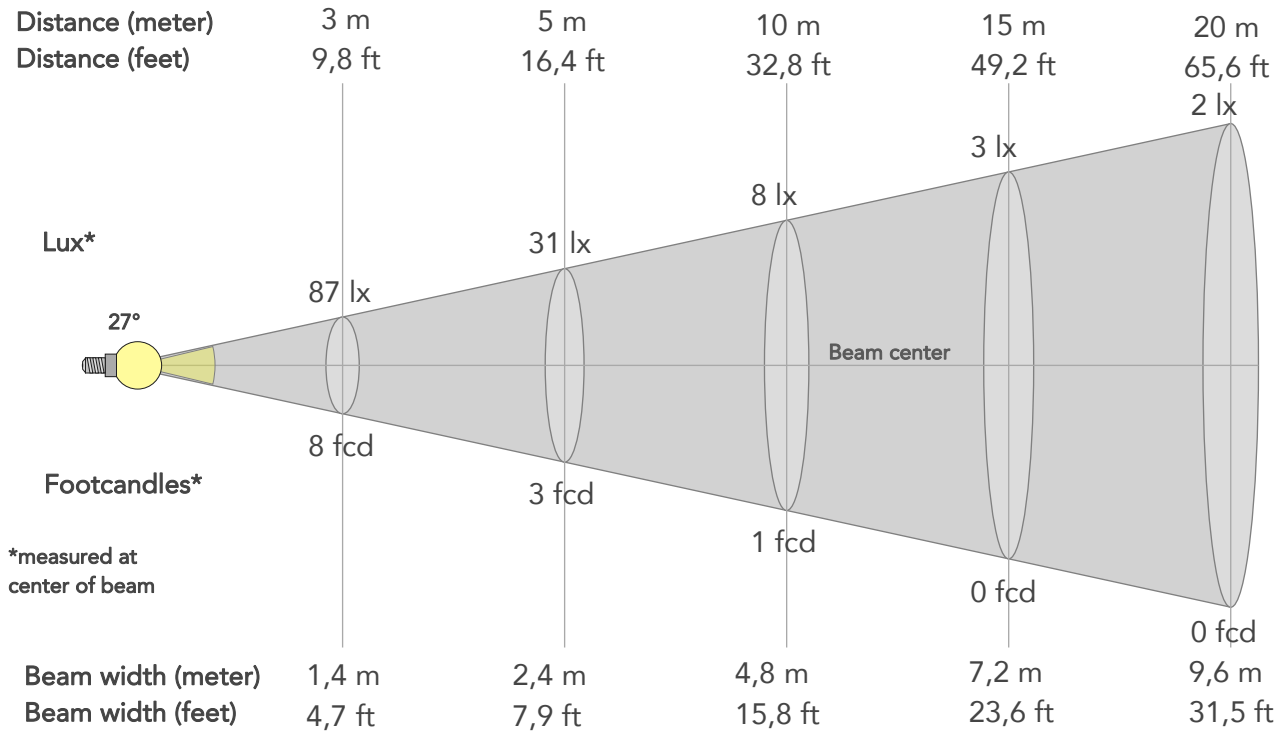
Spectra



BEAM DETAILS



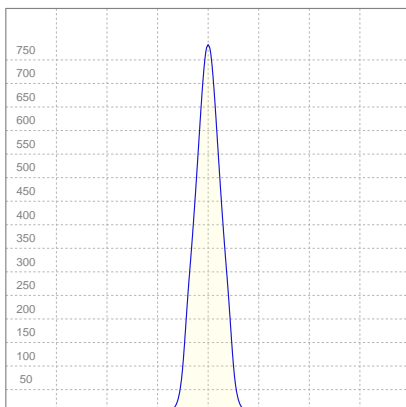
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 27° | 47° | 56,5° | 99,9% | 99,5% |



BEAM INTENSITIES AND WIDTHS

| | | | | | | | | | | | | | |
|-----------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 781lx | 195lx | 87lx | 49lx | 31lx | 14lx | 8lx | 3lx | 2lx | 1lx | 1lx | 0lx | 0lx |
| Footcand. | 73fcd | 18fcd | 8fcd | 5fcd | 3fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,5m | 1m | 1,4m | 1,9m | 2,4m | 3,6m | 4,8m | 7,2m | 9,6m | 12m | 14,4m | 19,2m | 24m |
| Beam wid. | 1,6ft | 3,2ft | 4,7ft | 6,3ft | 7,9ft | 11,8ft | 15,8ft | 23,6ft | 31,5ft | 39,4ft | 47,3ft | 63ft | 78,8ft |

LINEAR DISTRIBUTION DIAGRAM

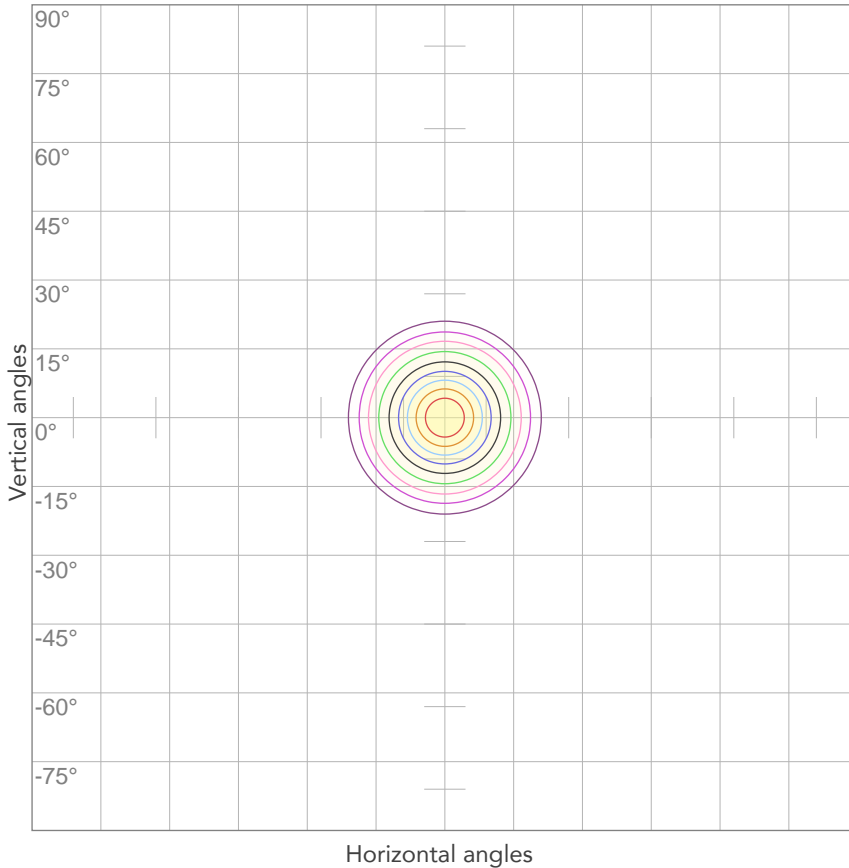


ELECTRICAL SPECIFICATIONS

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

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

ISO CANDELA DIAGRAM



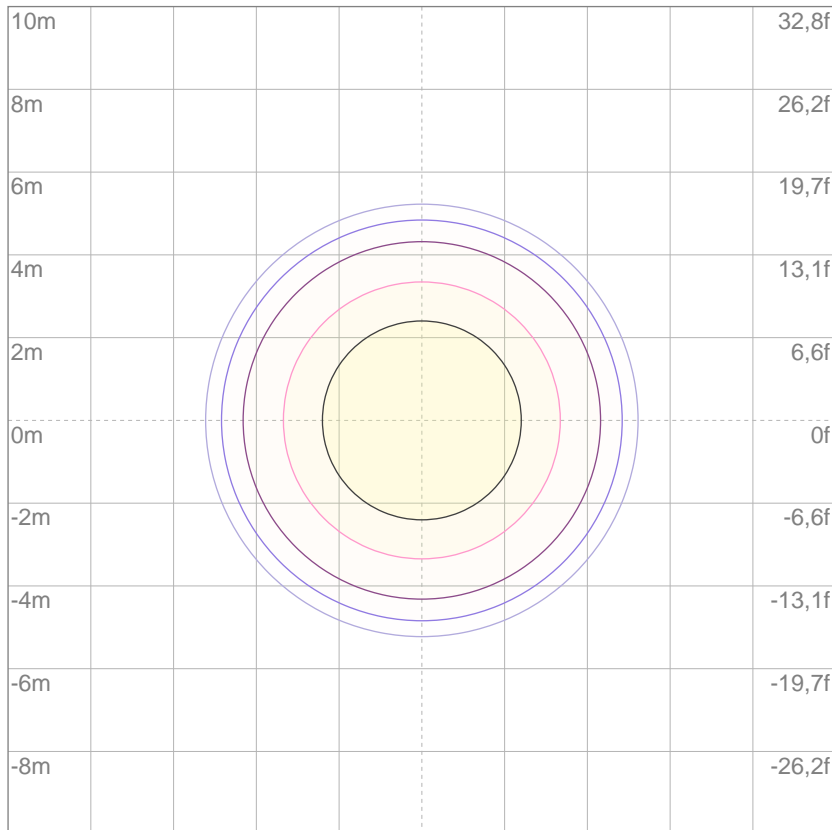
| | |
|-----|--------|
| 10% | 78 cd |
| 20% | 156 cd |
| 30% | 234 cd |
| 40% | 312 cd |
| 50% | 391 cd |
| 60% | 469 cd |
| 70% | 547 cd |
| 80% | 625 cd |

Conditions:

Number of c-planes: 2

Candela at center: 781 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 7,81 lx

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



Total lumen output:

166 lm

Peak candela output:

1617 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

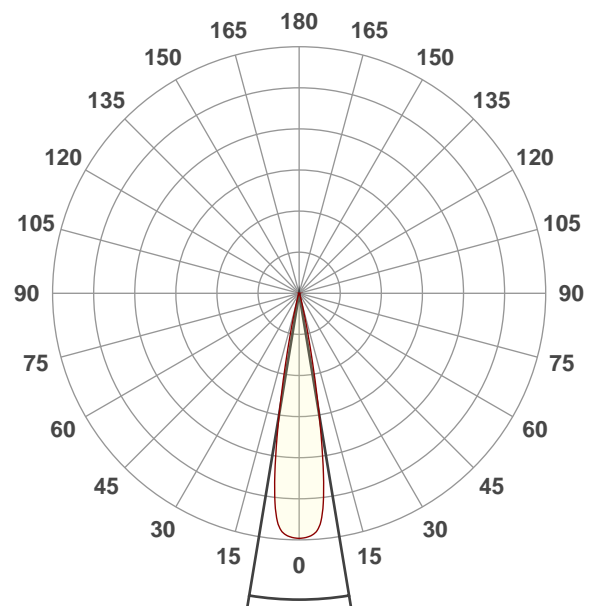
Green

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:48:27

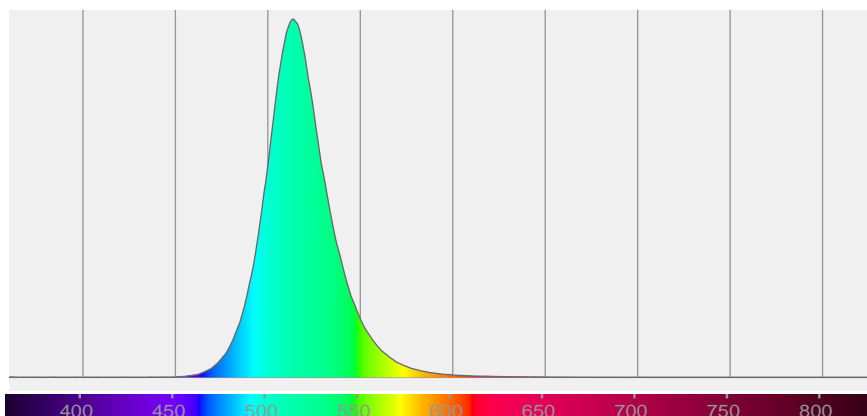


Beam angle 50%: 18,8°

Field angle 10%: 27°

Cut off angle 2.5%: 34,8°

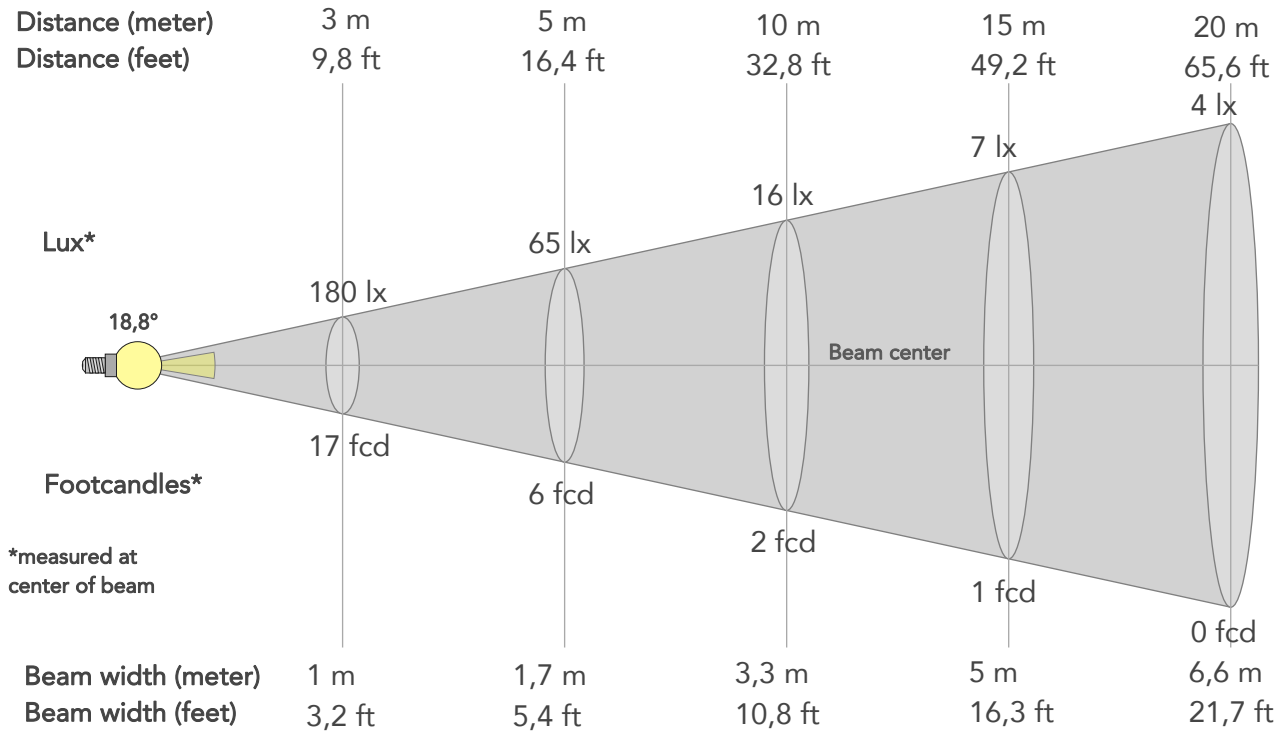
Spectra



BEAM DETAILS



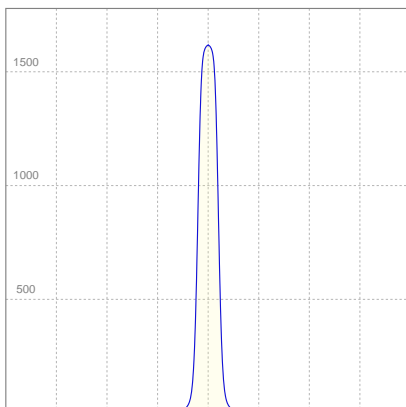
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 18,8° | 27° | 34,8° | 100,0% | 99,7% |



BEAM INTENSITIES AND WIDTHS

| | | | | | | | | | | | | | |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1617lx | 404lx | 180lx | 101lx | 65lx | 29lx | 16lx | 7lx | 4lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 150fcd | 38fcd | 17fcd | 9fcd | 6fcd | 3fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,3m | 0,7m | 1m | 1,3m | 1,7m | 2,5m | 3,3m | 5m | 6,6m | 8,3m | 9,9m | 13,2m | 16,5m |
| Beam wid. | 1,1ft | 2,2ft | 3,2ft | 4,3ft | 5,4ft | 8,1ft | 10,8ft | 16,3ft | 21,7ft | 27,1ft | 32,5ft | 43,4ft | 54,2ft |

LINEAR DISTRIBUTION DIAGRAM

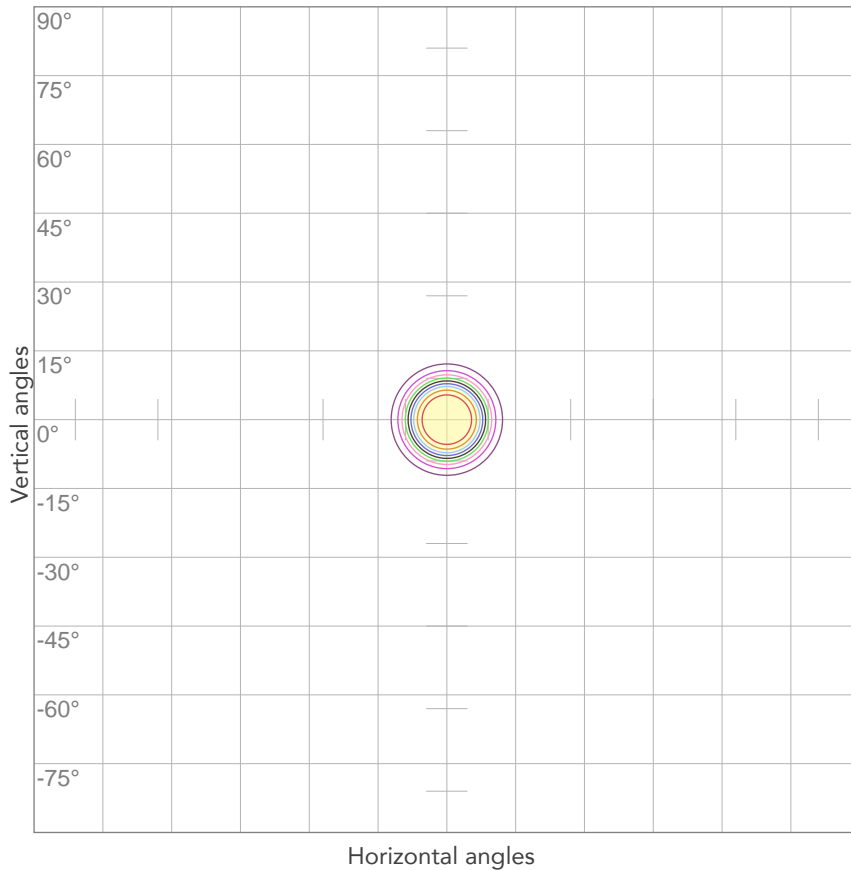


ELECTRICAL SPECIFICATIONS

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

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

ISO CANDELA DIAGRAM



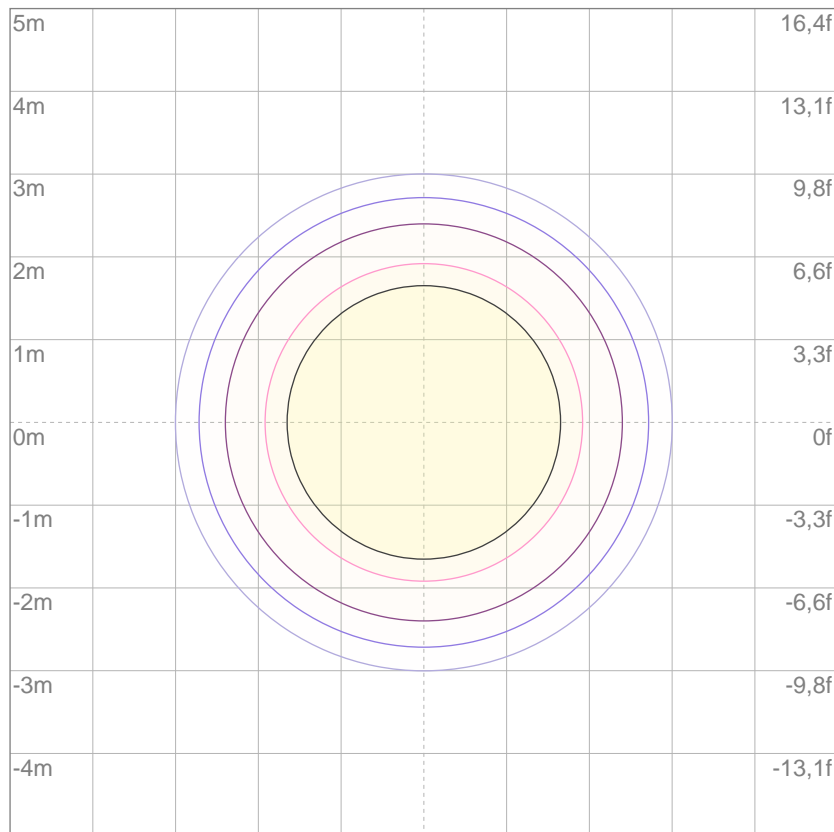
| | |
|-----|---------|
| 10% | 162 cd |
| 20% | 323 cd |
| 30% | 485 cd |
| 40% | 647 cd |
| 50% | 808 cd |
| 60% | 970 cd |
| 70% | 1132 cd |
| 80% | 1293 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1617 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 16,2 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

38,4 lm

Peak candela output:

158 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

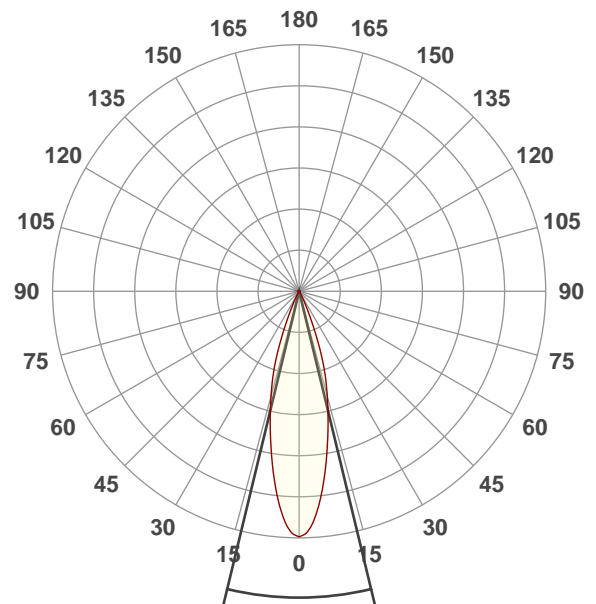
Blue

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:37:07

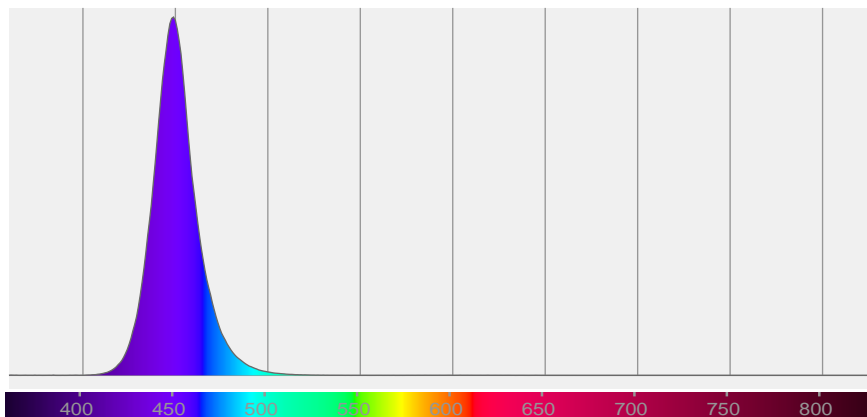


Beam angle 50%: 27,2°

Field angle 10%: 47,2°

Cut off angle 2.5%: 57°

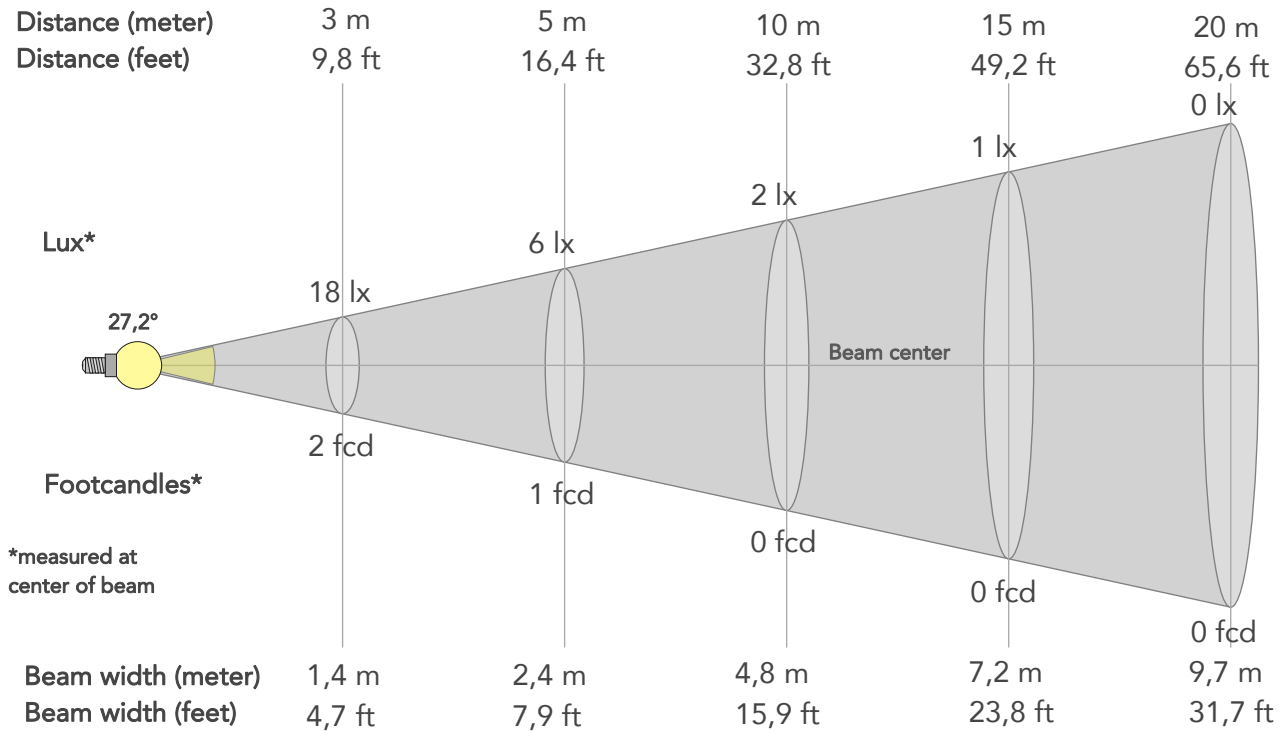
Spectra



BEAM DETAILS



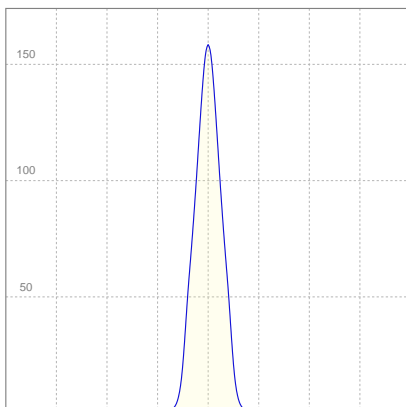
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 27,2° | 47,2° | 57° | 99,7% | 99,1% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 158lx | 40lx | 18lx | 10lx | 6lx | 3lx | 2lx | 1lx | 0lx | 0lx | 0lx | 0lx | 0lx |
| Footcand. | 15fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,5m | 1m | 1,4m | 1,9m | 2,4m | 3,6m | 4,8m | 7,2m | 9,7m | 12,1m | 14,5m | 19,3m | 24,2m |
| Beam wid. | 1,6ft | 3,2ft | 4,7ft | 6,3ft | 7,9ft | 11,9ft | 15,9ft | 23,8ft | 31,7ft | 39,6ft | 47,6ft | 63,4ft | 79,3ft |

LINEAR DISTRIBUTION DIAGRAM

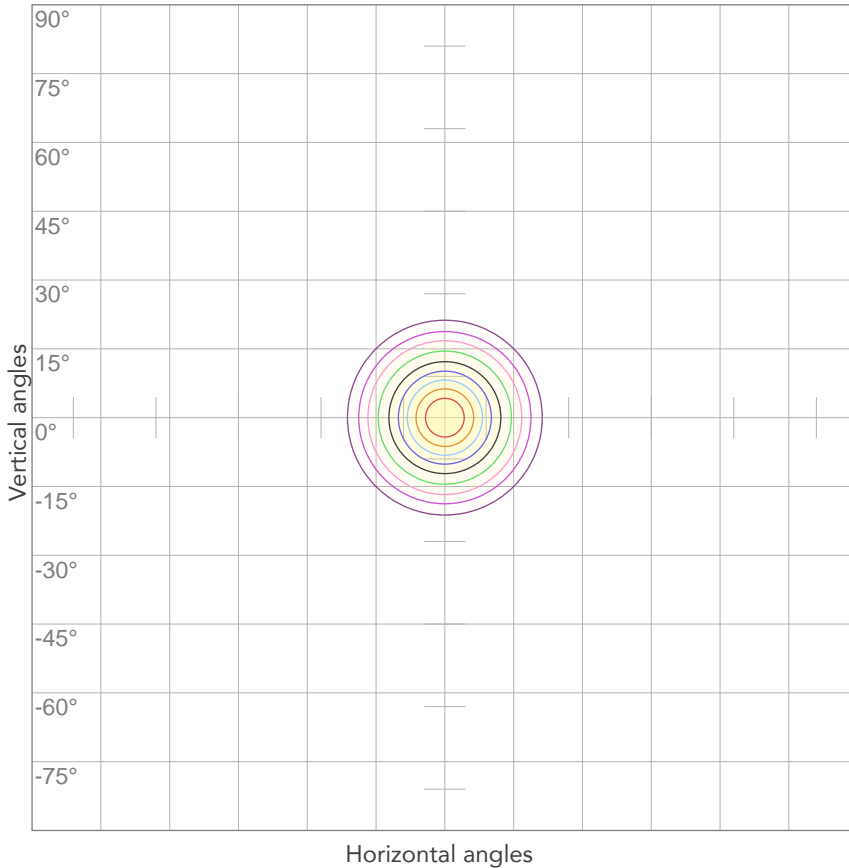


ELECTRICAL SPECIFICATIONS

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

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

ISO CANDELA DIAGRAM

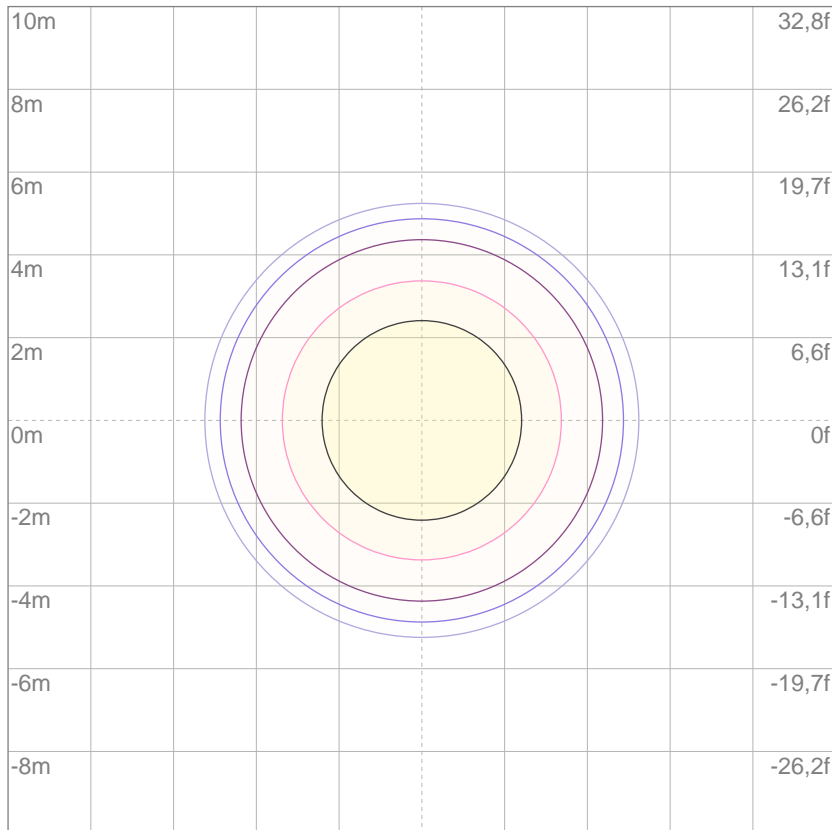


| | |
|-----|--------|
| 10% | 16 cd |
| 20% | 32 cd |
| 30% | 47 cd |
| 40% | 63 cd |
| 50% | 79 cd |
| 60% | 95 cd |
| 70% | 111 cd |
| 80% | 127 cd |

Conditions:

Number of c-planes: 2
Candela at center: 158 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

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

Conditions:

Number of c-planes: 2
Lux at center: 1,58 lx

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



Total lumen output:

34,0 lm

Peak candela output:

334 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

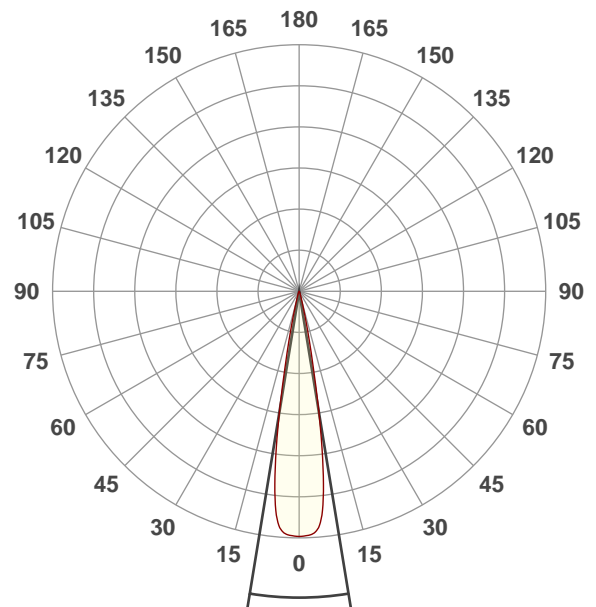
Blue

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:49:53

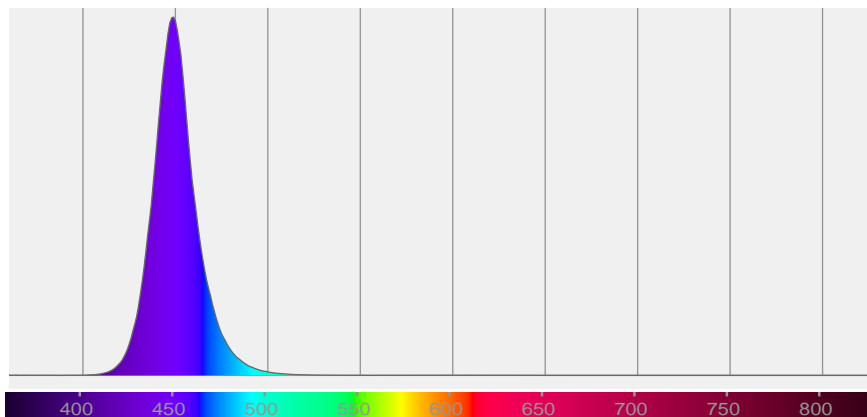


Beam angle 50%: 18,6°

Field angle 10%: 26,8°

Cut off angle 2.5%: 34,7°

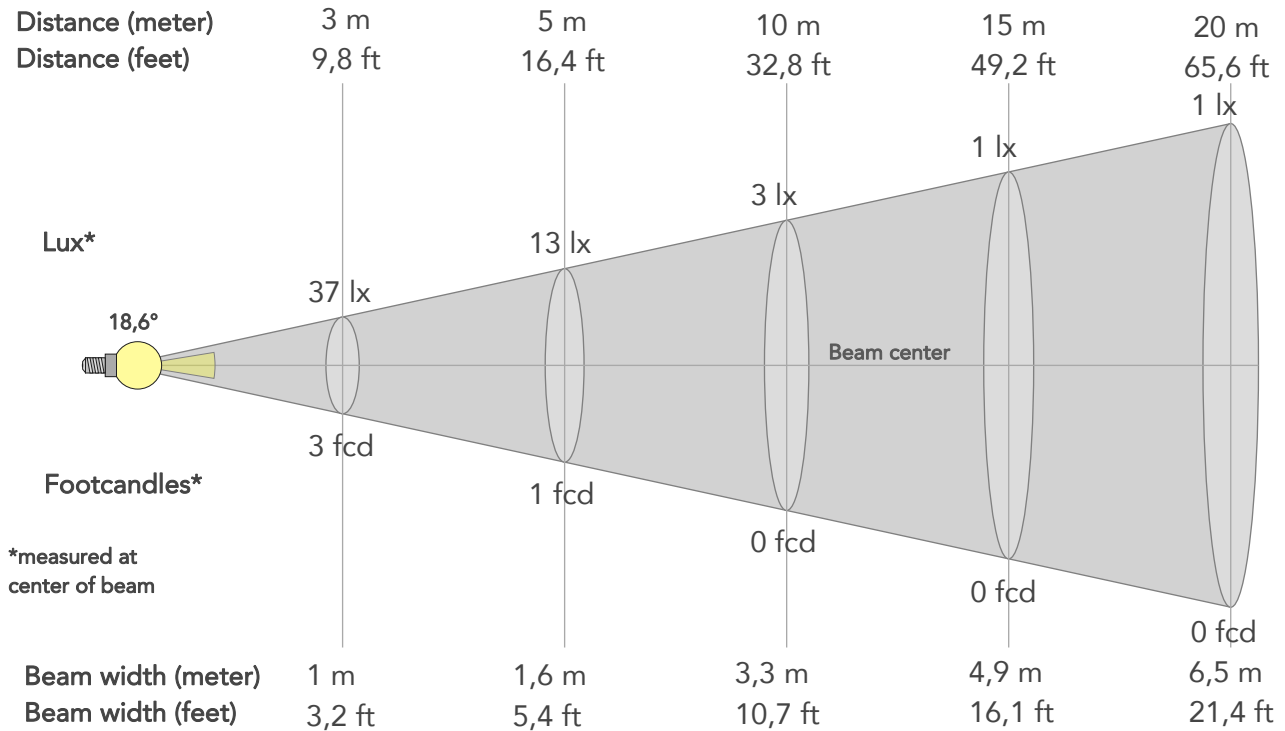
Spectra



BEAM DETAILS



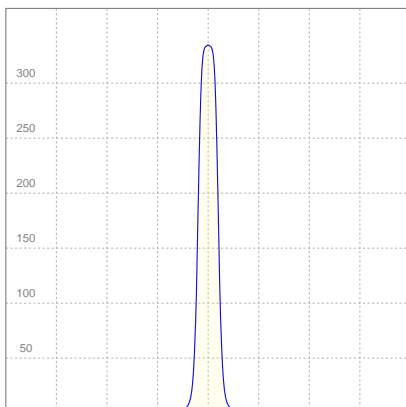
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 18,6° | 26,8° | 34,7° | 99,8% | 99,3% |



BEAM INTENSITIES AND WIDTHS

| | | | | | | | | | | | | | |
|-----------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 334lx | 84lx | 37lx | 21lx | 13lx | 6lx | 3lx | 1lx | 1lx | 1lx | 0lx | 0lx | 0lx |
| Footcand. | 31fcd | 8fcd | 3fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,3m | 0,7m | 1m | 1,3m | 1,6m | 2,4m | 3,3m | 4,9m | 6,5m | 8,2m | 9,8m | 13,1m | 16,3m |
| Beam wid. | 1,1ft | 2,2ft | 3,2ft | 4,3ft | 5,4ft | 8ft | 10,7ft | 16,1ft | 21,4ft | 26,8ft | 32,1ft | 42,9ft | 53,6ft |

LINEAR DISTRIBUTION DIAGRAM

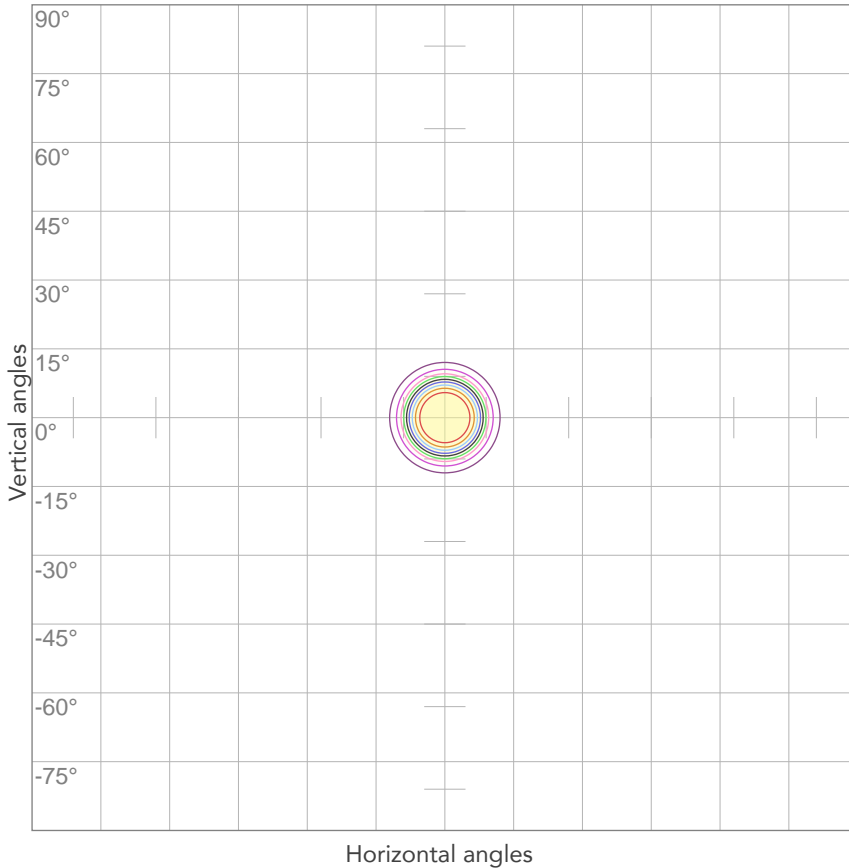


ELECTRICAL SPECIFICATIONS

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

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

ISO CANDELA DIAGRAM

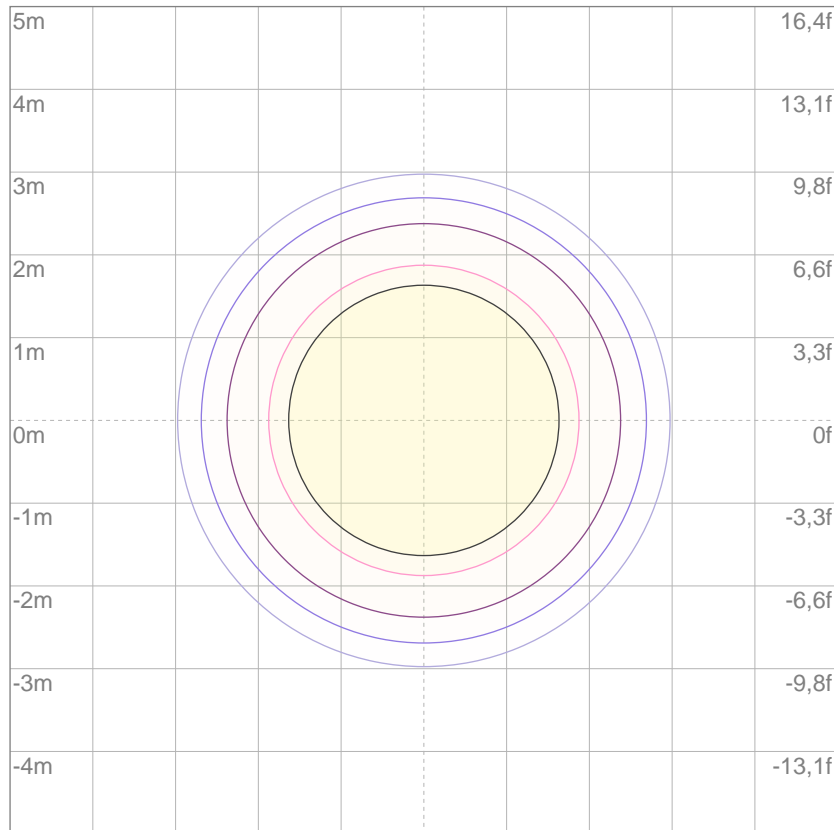


| | |
|-----|--------|
| 10% | 33 cd |
| 20% | 67 cd |
| 30% | 100 cd |
| 40% | 134 cd |
| 50% | 167 cd |
| 60% | 201 cd |
| 70% | 234 cd |
| 80% | 268 cd |

Conditions:

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

ISO LUX DIAGRAM



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

Conditions:

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

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

Mounting height: 10 meters (33 feet)



Total lumen output:

237 lm

Peak candela output:

1001 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

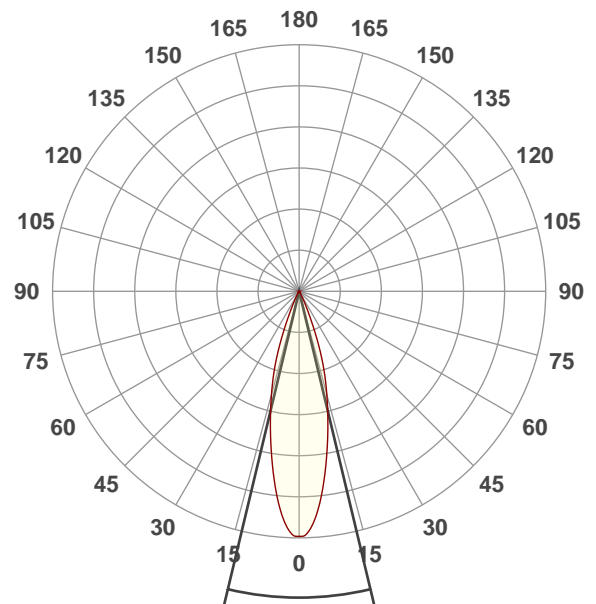
White

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:38:44

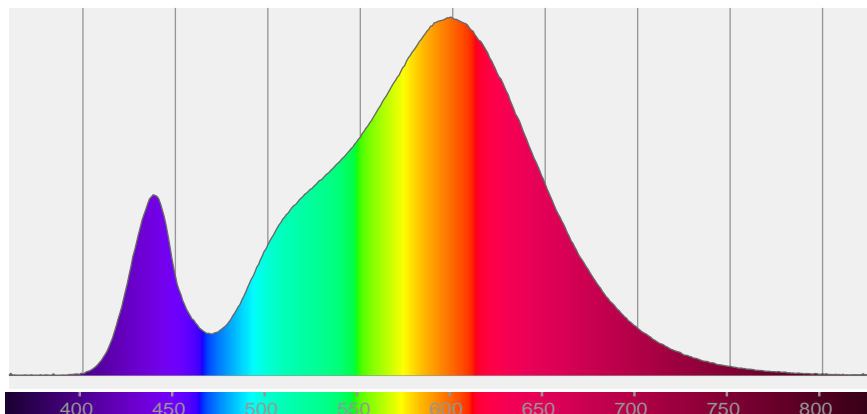


Beam angle 50%: 26,9°

Field angle 10%: 46,7°

Cut off angle 2.5%: 56,4°

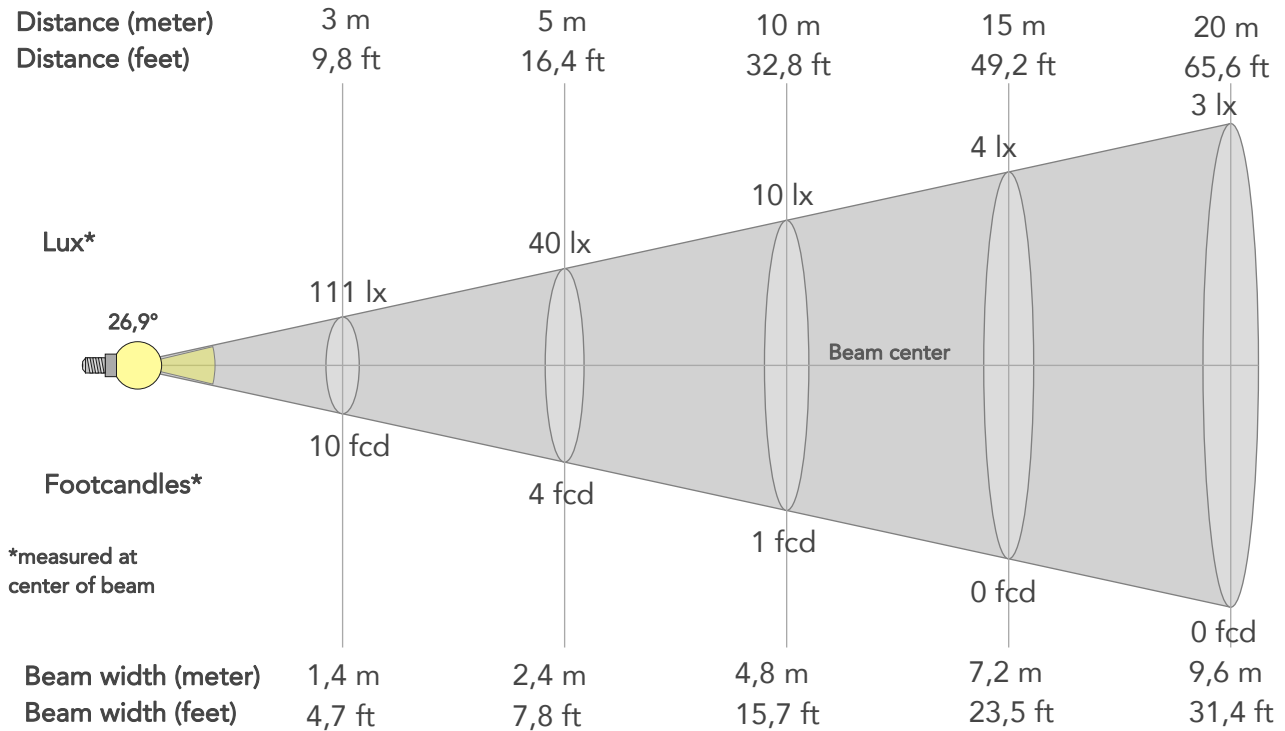
Spectra



BEAM DETAILS



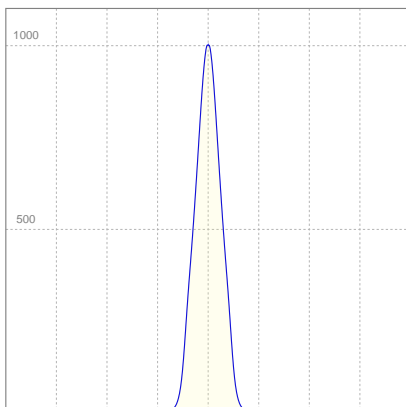
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 26,9° | 46,7° | 56,4° | 99,9% | 99,5% |



BEAM INTENSITIES AND WIDTHS

| | | | | | | | | | | | | | |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1001lx | 250lx | 111lx | 63lx | 40lx | 18lx | 10lx | 4lx | 3lx | 2lx | 1lx | 1lx | 0lx |
| Footcand. | 93fcd | 23fcd | 10fcd | 6fcd | 4fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,5m | 1m | 1,4m | 1,9m | 2,4m | 3,6m | 4,8m | 7,2m | 9,6m | 12m | 14,4m | 19,1m | 23,9m |
| Beam wid. | 1,6ft | 3,2ft | 4,7ft | 6,3ft | 7,8ft | 11,8ft | 15,7ft | 23,5ft | 31,4ft | 39,2ft | 47,1ft | 62,8ft | 78,5ft |

LINEAR DISTRIBUTION DIAGRAM

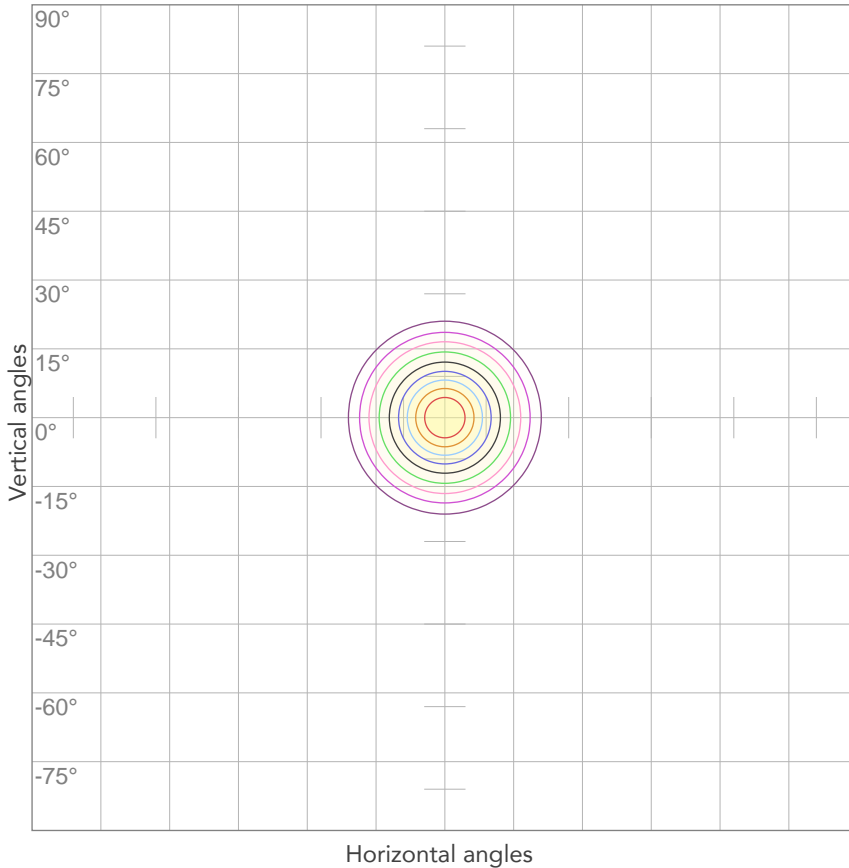


ELECTRICAL SPECIFICATIONS

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

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

ISO CANDELA DIAGRAM



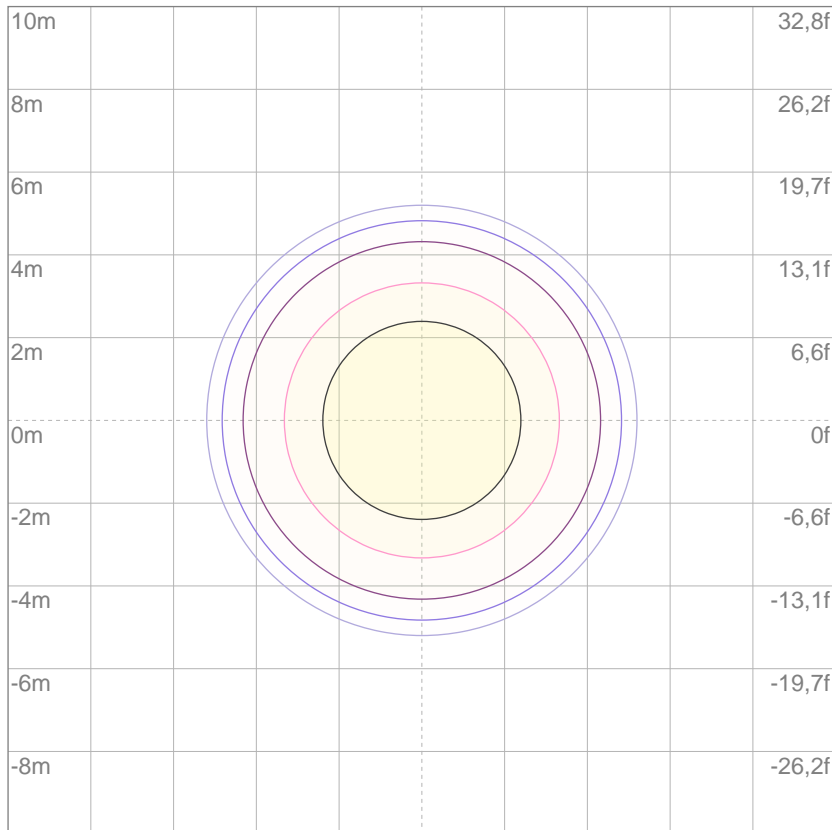
- 10% 100 cd
- 20% 200 cd
- 30% 300 cd
- 40% 400 cd
- 50% 501 cd
- 60% 601 cd
- 70% 701 cd
- 80% 801 cd

Conditions:

Number of c-planes: 2

Candela at center: 1001 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 10,0 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

213 lm

Peak candela output:

2057 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

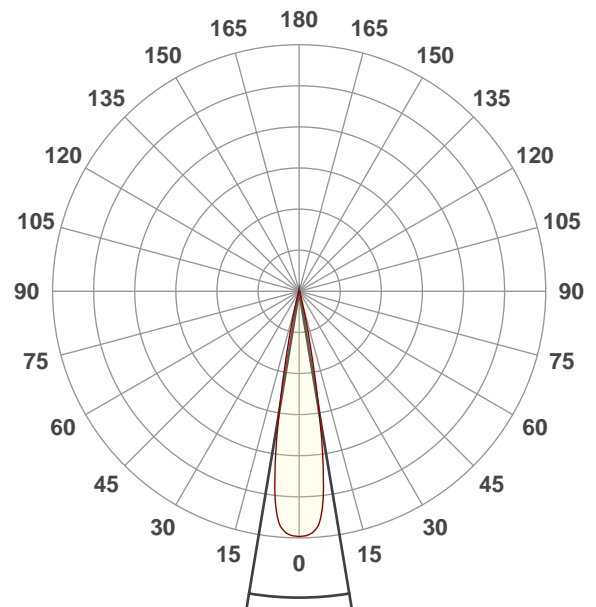
White

Operator:

Paolo Carvone

Date and time:

18/09/2020 14:51:41

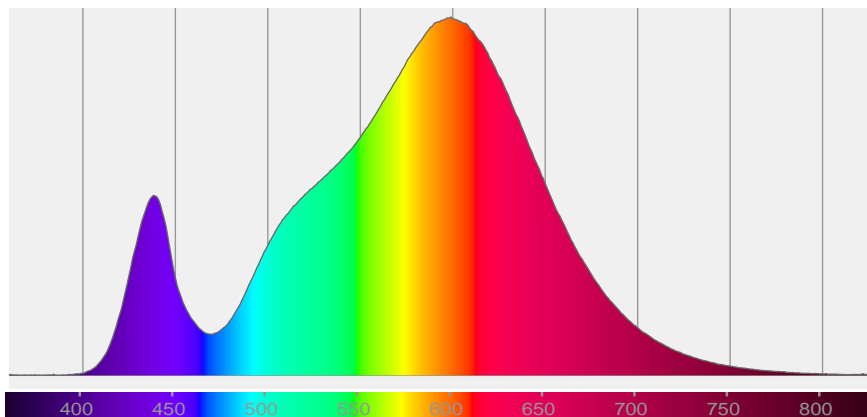


Beam angle 50%: 18,8°

Field angle 10%: 27,3°

Cut off angle 2.5%: 35,1°

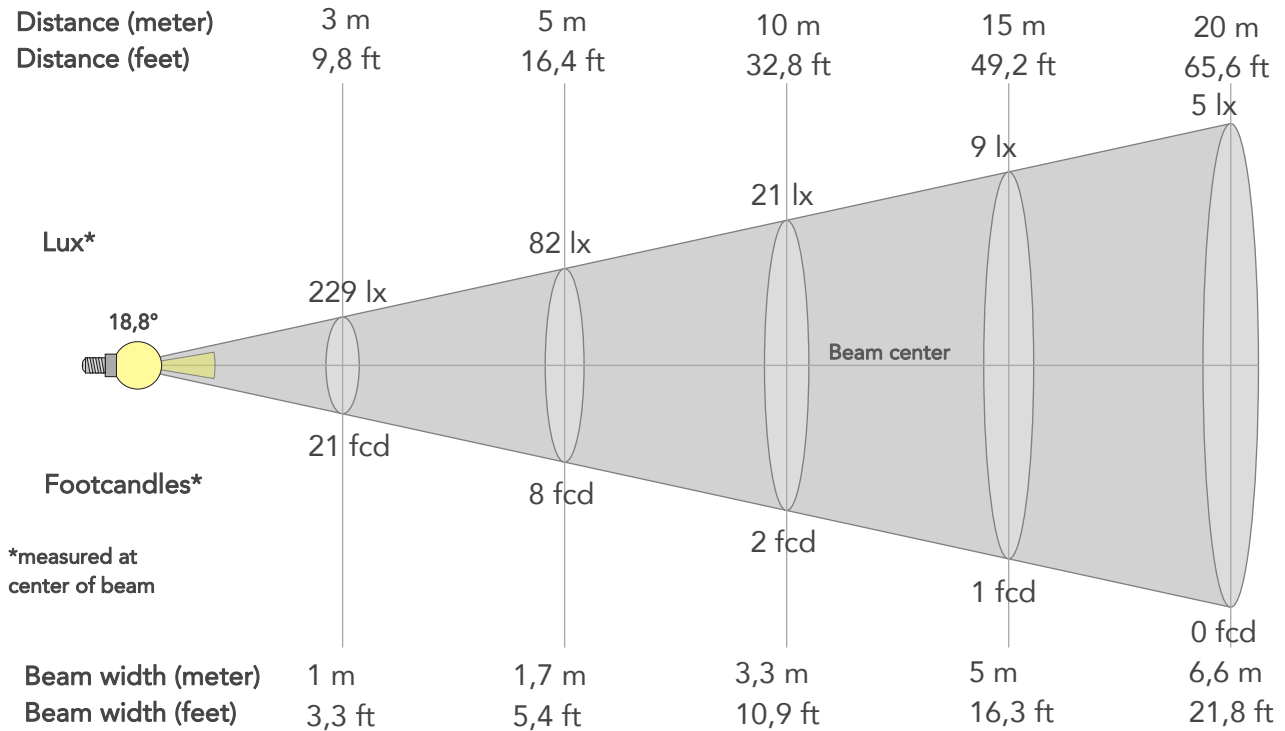
Spectra



BEAM DETAILS



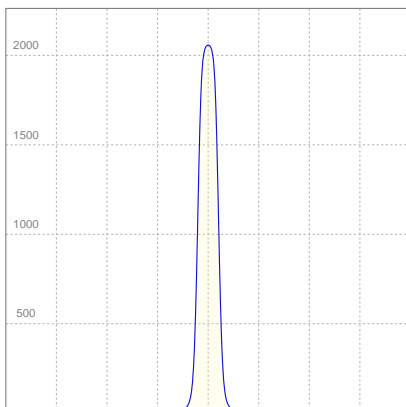
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 18,8° | 27,3° | 35,1° | 100,0% | 99,7% |



BEAM INTENSITIES AND WIDTHS

| | | | | | | | | | | | | | |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 2057lx | 514lx | 229lx | 129lx | 82lx | 37lx | 21lx | 9lx | 5lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 191fcd | 48fcd | 21fcd | 12fcd | 8fcd | 3fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,3m | 0,7m | 1m | 1,3m | 1,7m | 2,5m | 3,3m | 5m | 6,6m | 8,3m | 10m | 13,3m | 16,6m |
| Beam wid. | 1,1ft | 2,2ft | 3,3ft | 4,3ft | 5,4ft | 8,2ft | 10,9ft | 16,3ft | 21,8ft | 27,2ft | 32,6ft | 43,5ft | 54,4ft |

LINEAR DISTRIBUTION DIAGRAM

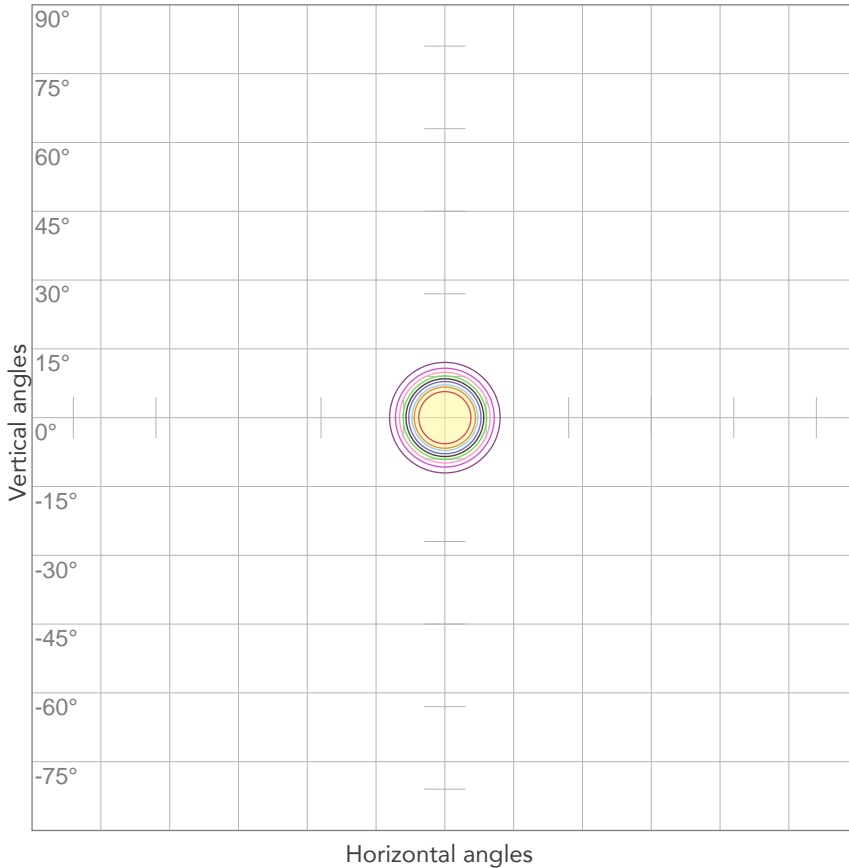


ELECTRICAL SPECIFICATIONS

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

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

ISO CANDELA DIAGRAM



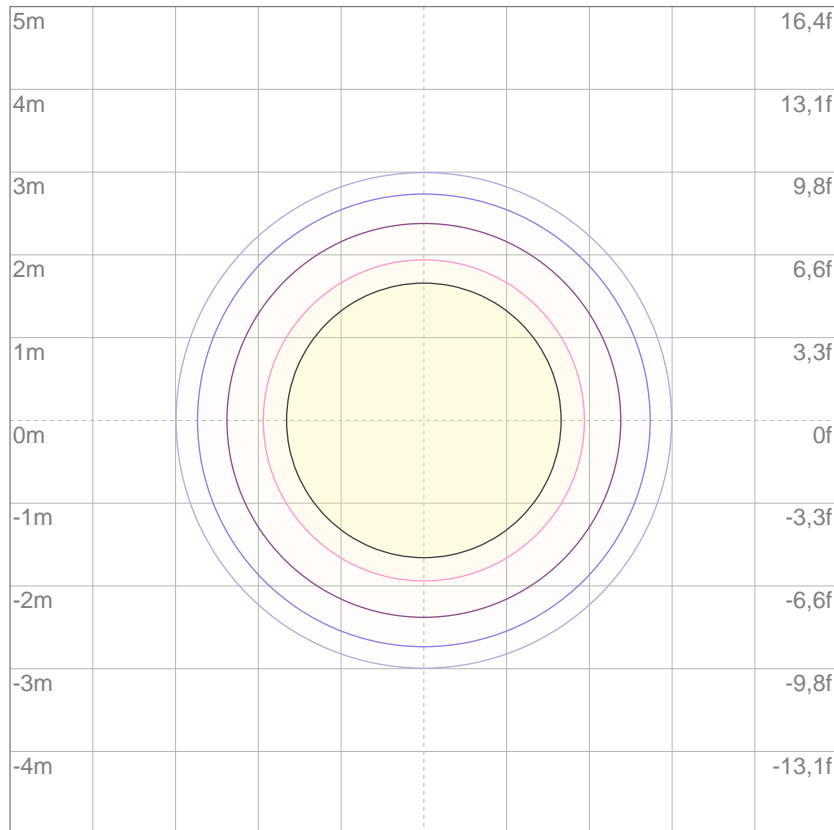
| | |
|-----|---------|
| 10% | 206 cd |
| 20% | 411 cd |
| 30% | 617 cd |
| 40% | 823 cd |
| 50% | 1028 cd |
| 60% | 1234 cd |
| 70% | 1440 cd |
| 80% | 1645 cd |

Conditions:

Number of c-planes: 2

Candela at center: 2057 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 20,6 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

260 lm

Peak candela output:

1101 cd

Light quality:

CRI: 92,5

Color temperature:

2830 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash 15-30 Max Zoom

Target:

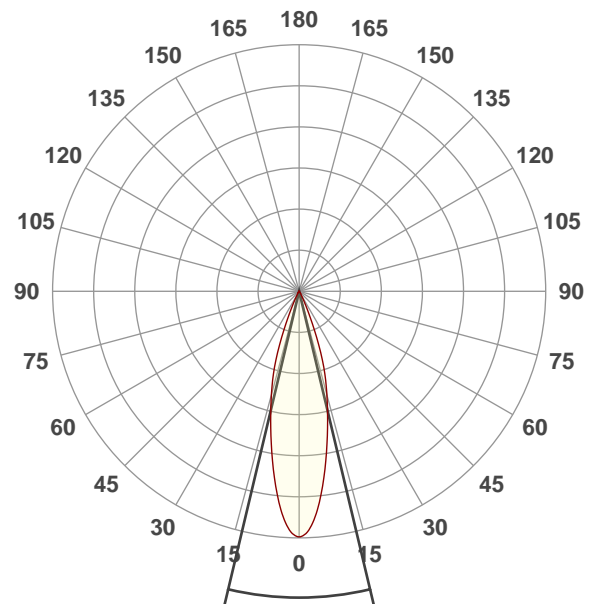
2800K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:08:12

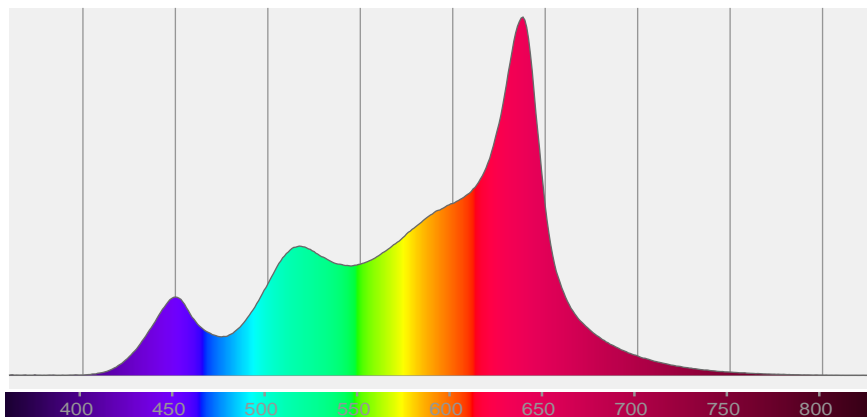


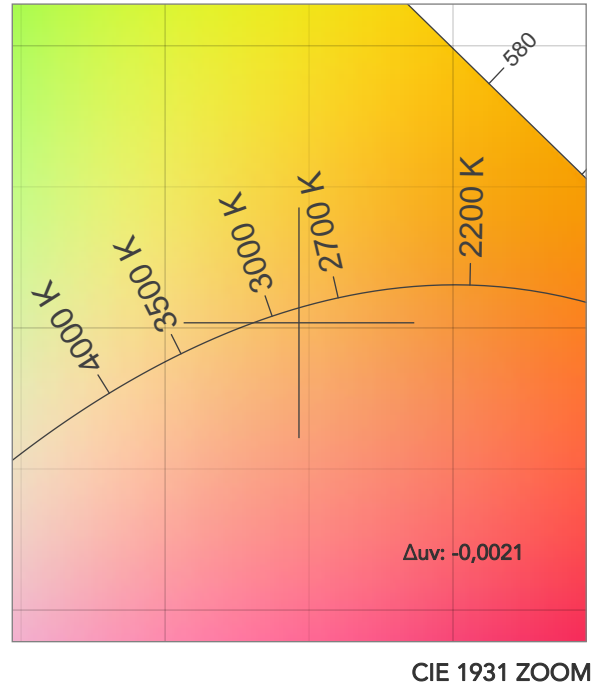
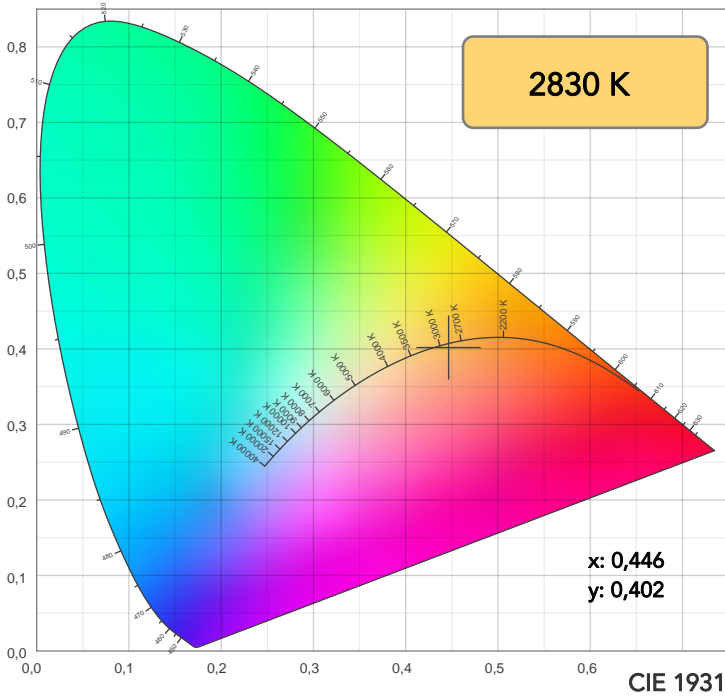
Beam angle 50%: 26,8°

Field angle 10%: 47,1°

Cut off angle 2.5%: 56,1°

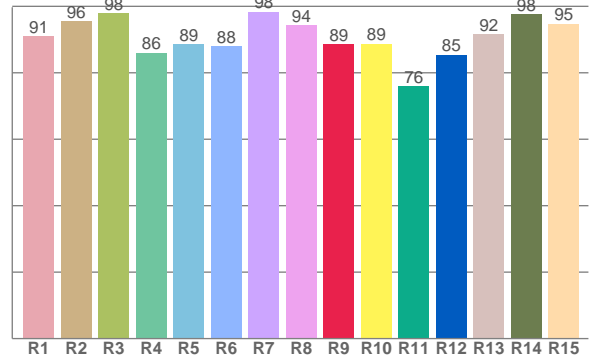
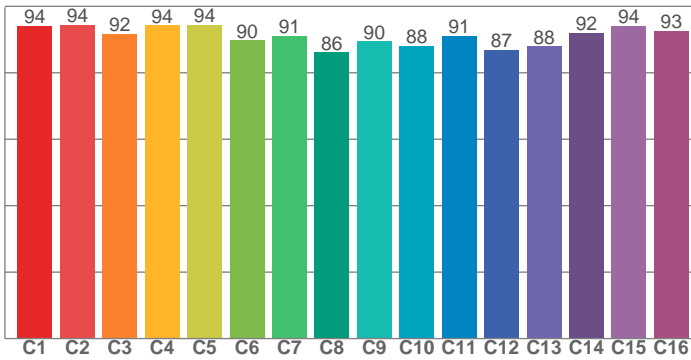
Spectra





TM30: 91,6

CRI: 92,5 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 90,9 | 95,5 | 98,0 | 86,0 | 88,6 | 87,9 | 98,4 | 94,4 | 88,6 | 88,7 | 75,9 | 85,4 | 91,6 | 97,7 | 94,8 |

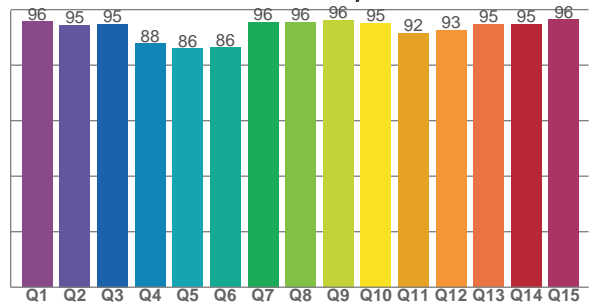
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 92,1



COLOR PARAMETERS

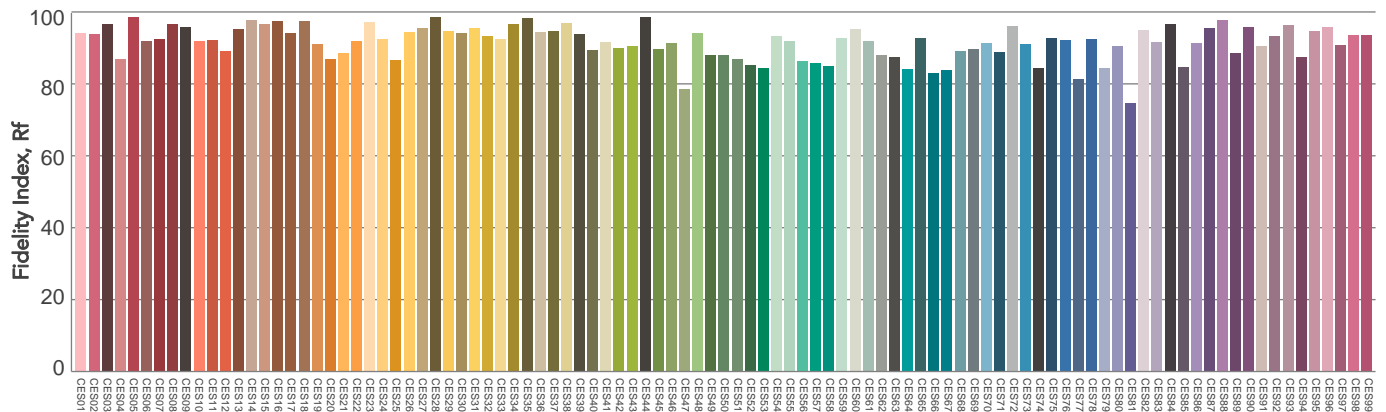
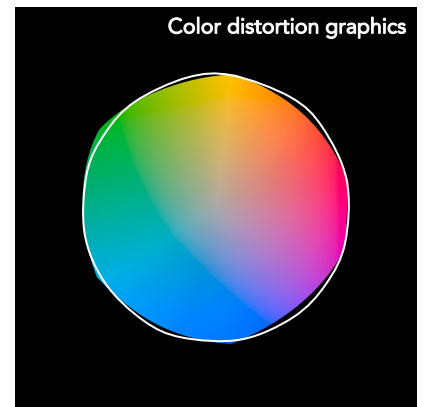
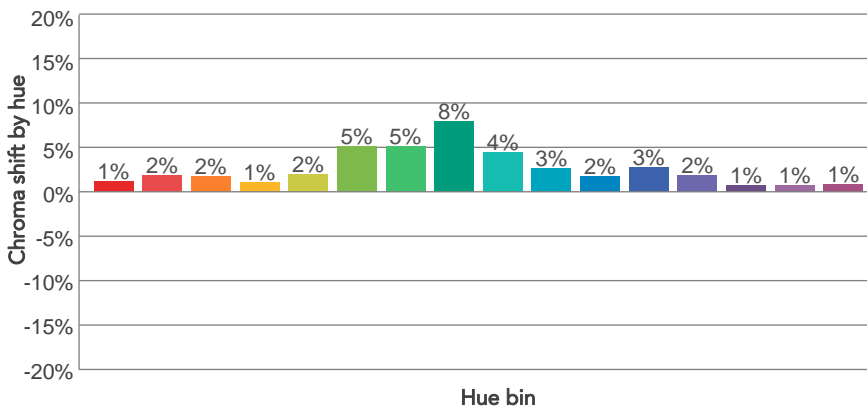
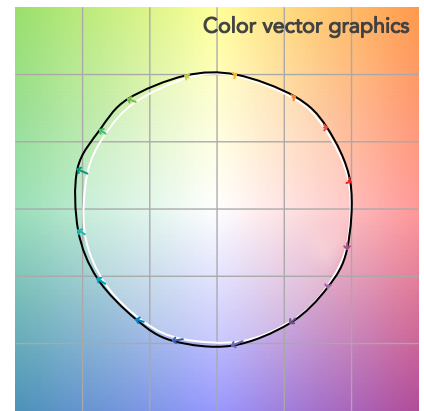
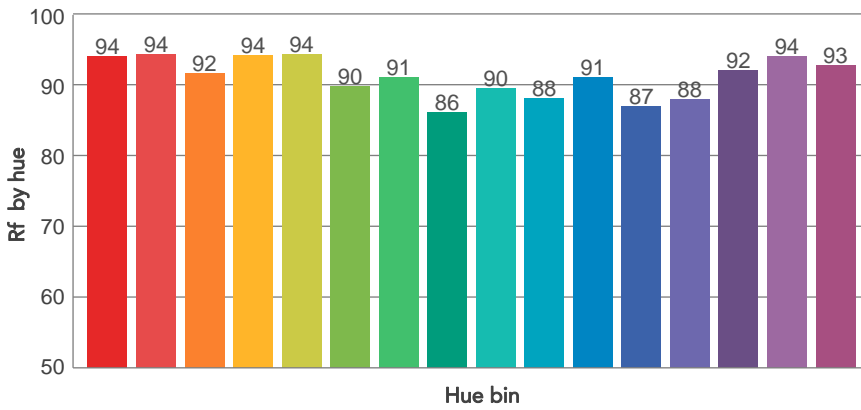
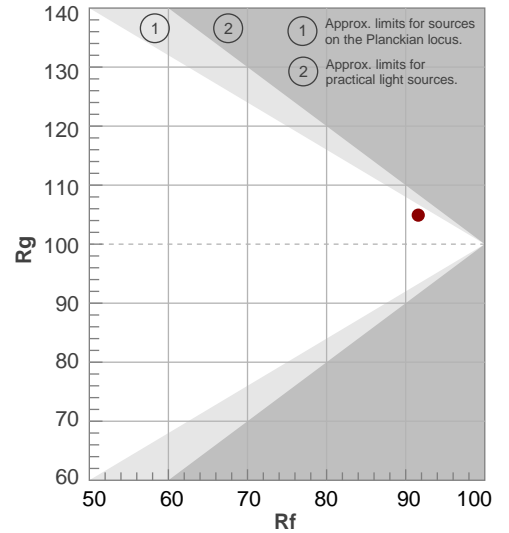
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|-----------------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

TM30 DETAILS

Rf 91,6
Fidelity index Rf

Rg 104,9
Gammut index

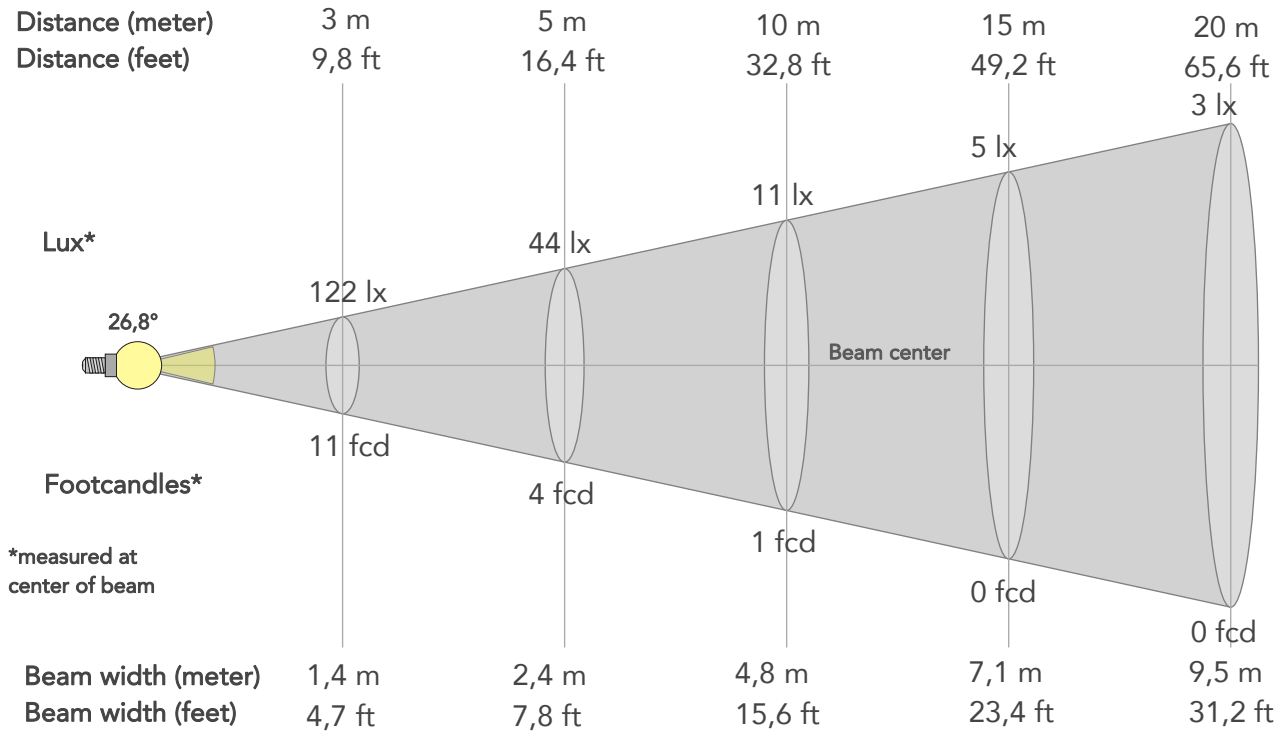
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 1% | -1% |
| 2 | 94 | 2% | -1% |
| 3 | 92 | 2% | -1% |
| 4 | 94 | 1% | -2% |
| 5 | 94 | 2% | 2% |
| 6 | 90 | 5% | 4% |
| 7 | 91 | 5% | 0% |
| 8 | 86 | 8% | -2% |
| 9 | 90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



BEAM DETAILS



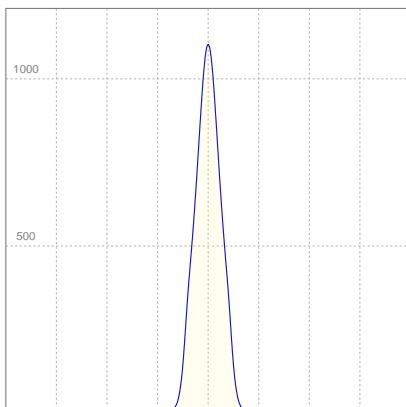
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 26,8° | 47,1° | 56,1° | 99,9% | 99,7% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|-------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1101lx | 275lx | 122lx | 69lx | 44lx | 20lx | 11lx | 5lx | 3lx | 2lx | 1lx | 1lx | 0lx |
| Footcand. | 102fcd | 26fcd | 11fcd | 6fcd | 4fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,5m | 1m | 1,4m | 1,9m | 2,4m | 3,6m | 4,8m | 7,1m | 9,5m | 11,9m | 14,3m | 19m | 23,8m |
| Beam wid. | 1,6ft | 3,1ft | 4,7ft | 6,2ft | 7,8ft | 11,7ft | 15,6ft | 23,4ft | 31,2ft | 39ft | 46,8ft | 62,5ft | 78,1ft |

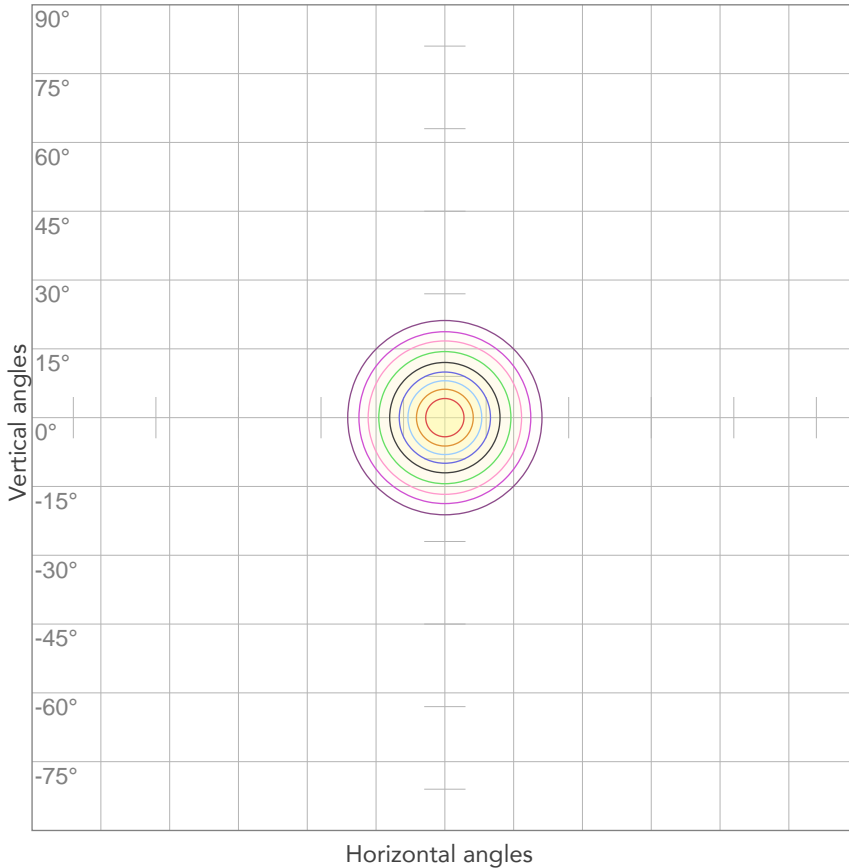
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



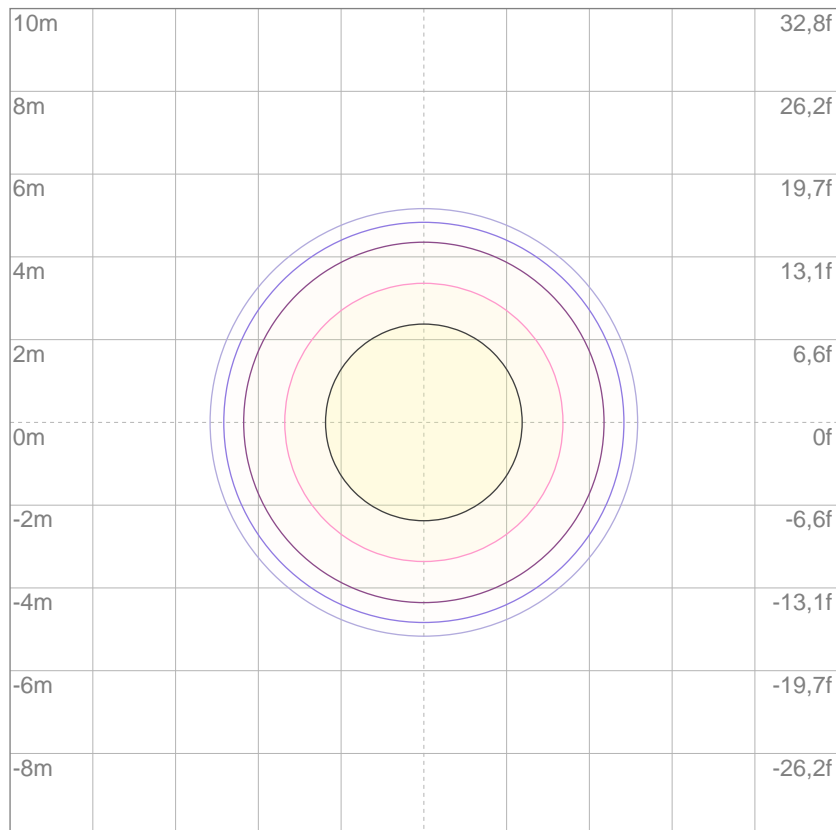
| | |
|-----|--------|
| 10% | 110 cd |
| 20% | 220 cd |
| 30% | 330 cd |
| 40% | 440 cd |
| 50% | 550 cd |
| 60% | 660 cd |
| 70% | 770 cd |
| 80% | 880 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1101 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 11,0 lx

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



Total lumen output:

233 lm

Peak candela output:

2260 cd

Light quality:

CRI: 92,4

Color temperature:

2820 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

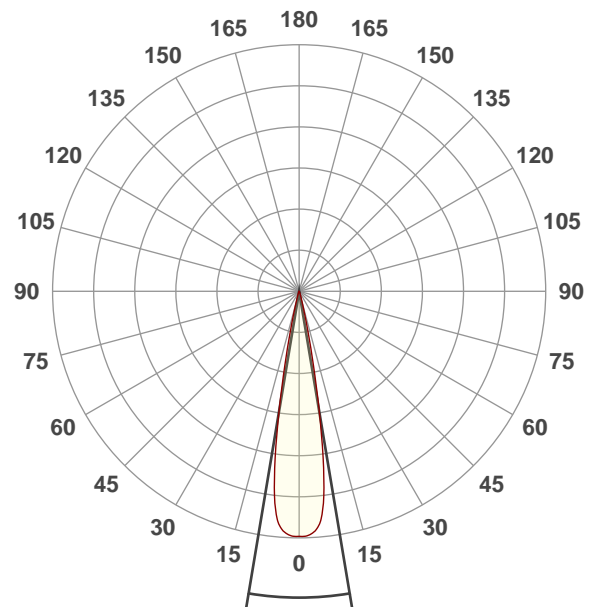
2800K

Operator:

Paolo Carvone

Date and time:

14/01/2021 11:56:20

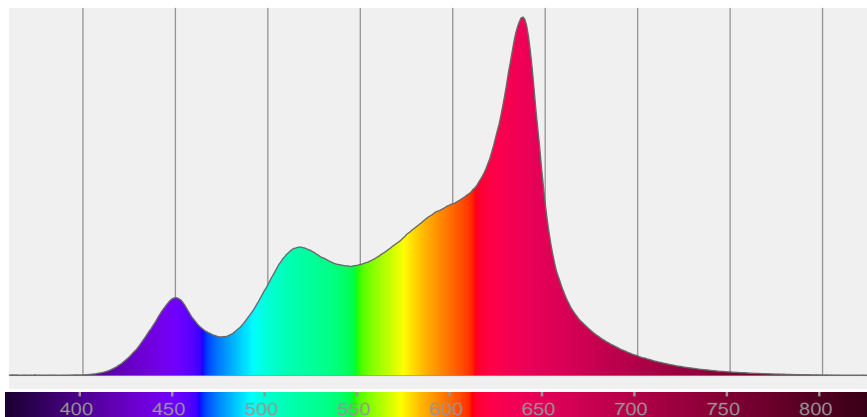


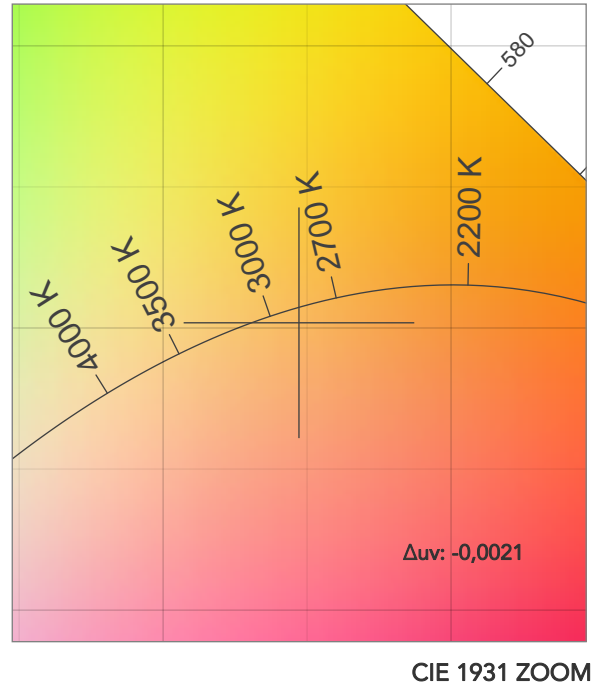
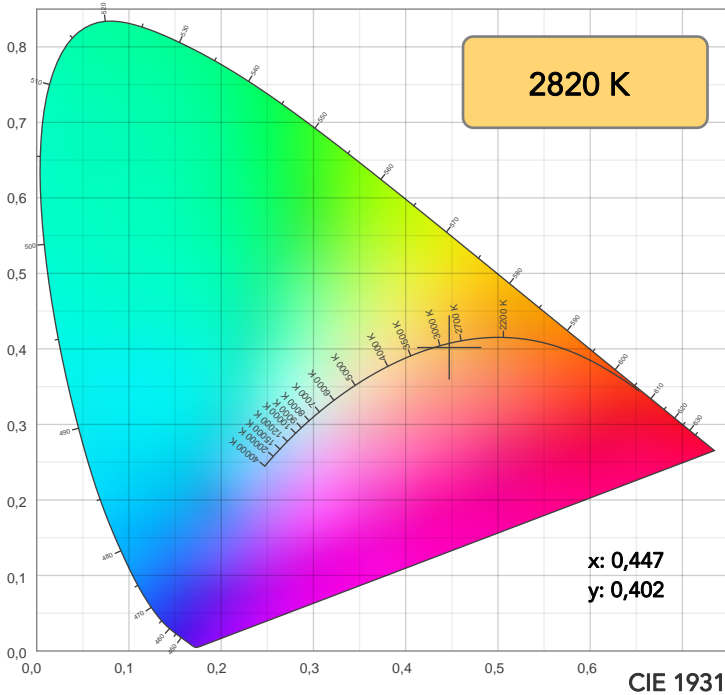
Beam angle 50%: 19°

Field angle 10%: 27,1°

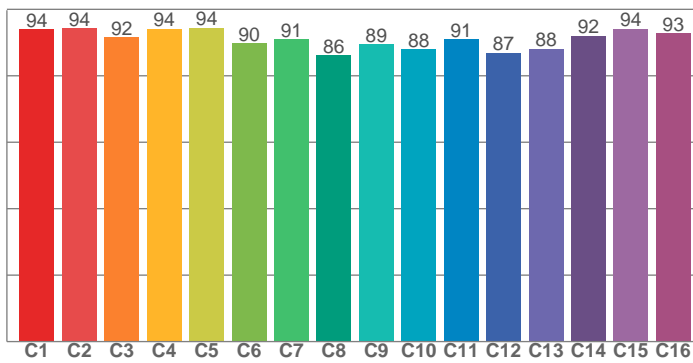
Cut off angle 2.5%: 34,5°

Spectra

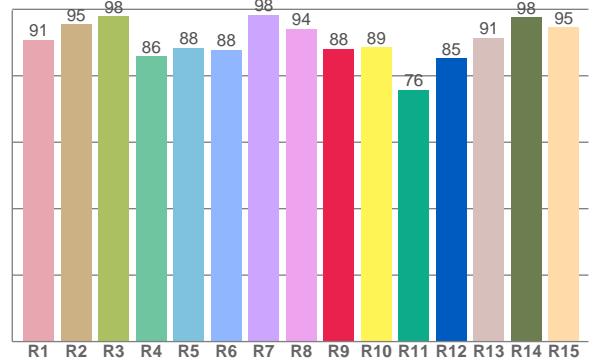




TM30: 91,6



CRI: 92,4 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 90,8 | 95,5 | 97,9 | 85,9 | 88,5 | 87,8 | 98,4 | 94,1 | 88,1 | 88,6 | 75,8 | 85,2 | 91,5 | 97,7 | 94,6 |

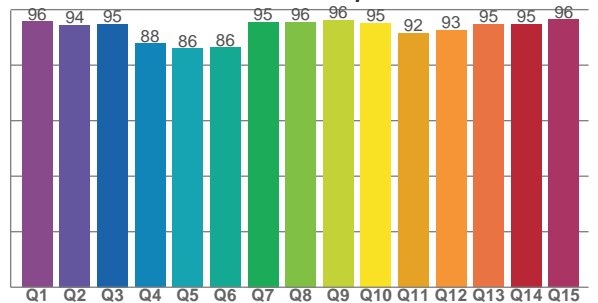
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 92,1



COLOR PARAMETERS

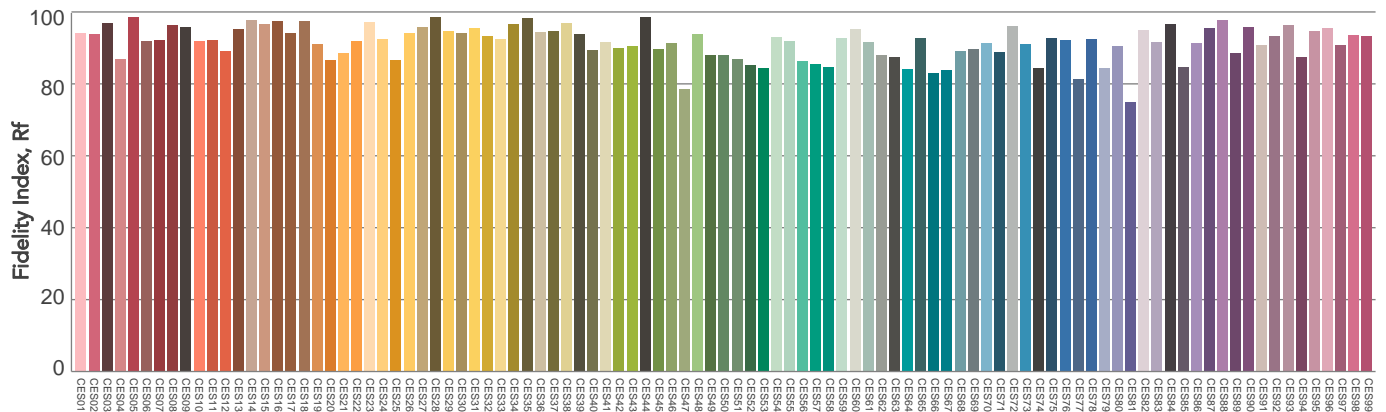
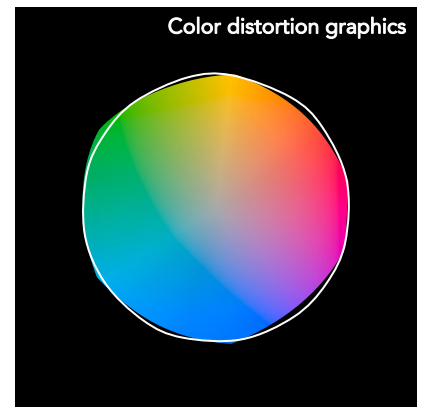
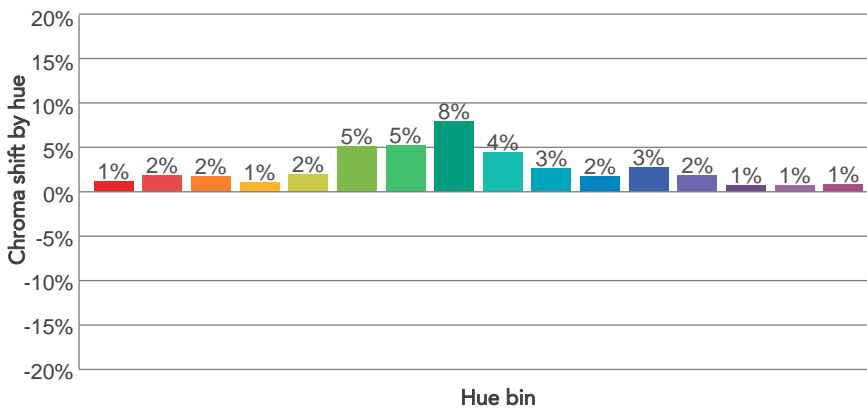
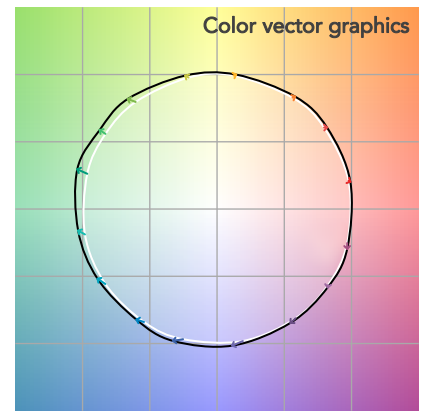
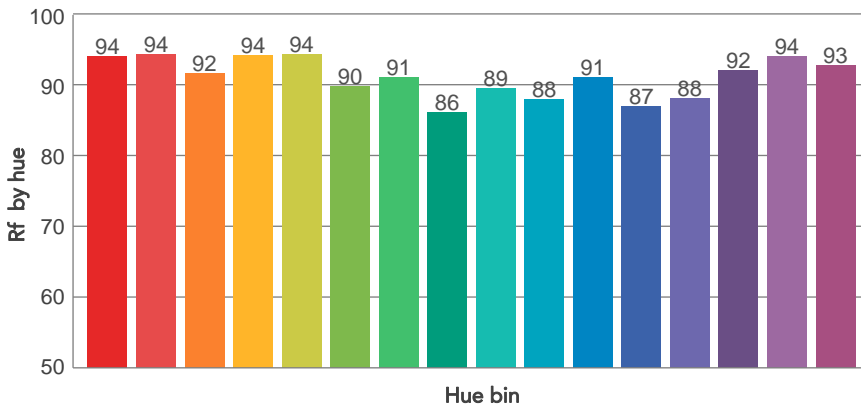
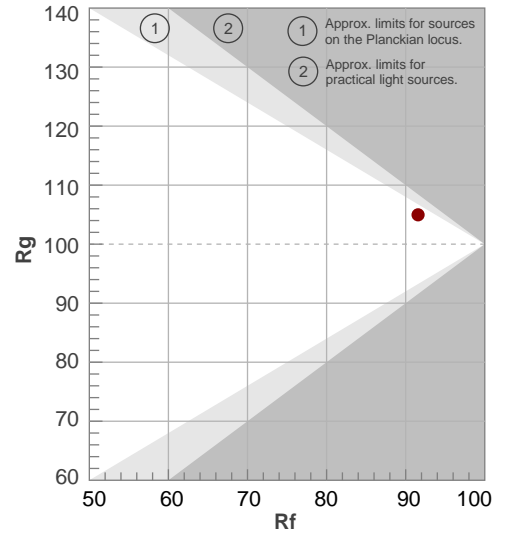
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|-----------------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

TM30 DETAILS

Rf 91,6
Fidelity index Rf

Rg 105,0
Gammut index

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

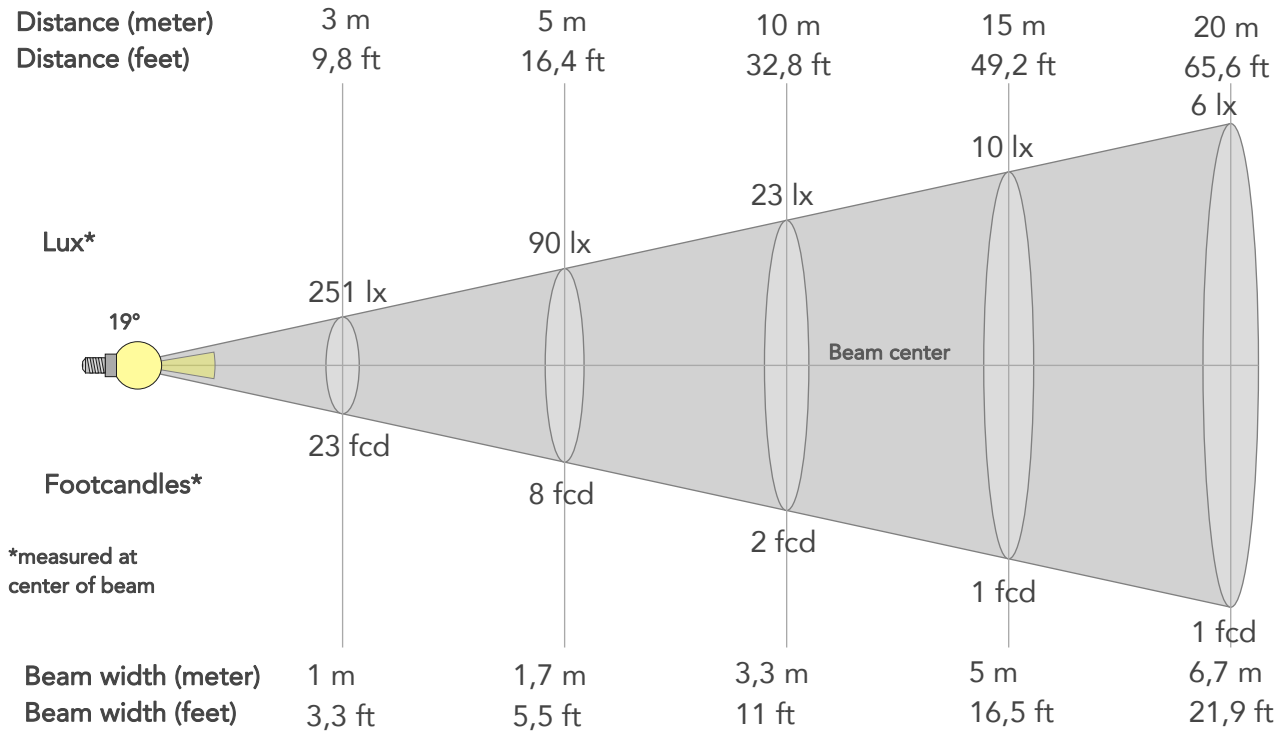


Color Evaluation Sample

BEAM DETAILS



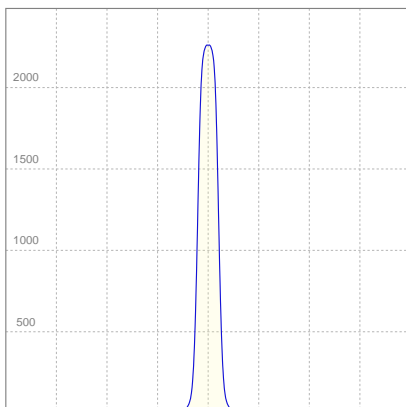
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 19° | 27,1° | 34,5° | 100,0% | 99,9% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 2260lx | 565lx | 251lx | 141lx | 90lx | 40lx | 23lx | 10lx | 6lx | 4lx | 3lx | 1lx | 1lx |
| Footcand. | 210fcd | 52fcd | 23fcd | 13fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,3m | 0,7m | 1m | 1,3m | 1,7m | 2,5m | 3,3m | 5m | 6,7m | 8,4m | 10m | 13,4m | 16,7m |
| Beam wid. | 1,1ft | 2,2ft | 3,3ft | 4,4ft | 5,5ft | 8,2ft | 11ft | 16,5ft | 21,9ft | 27,4ft | 32,9ft | 43,9ft | 54,9ft |

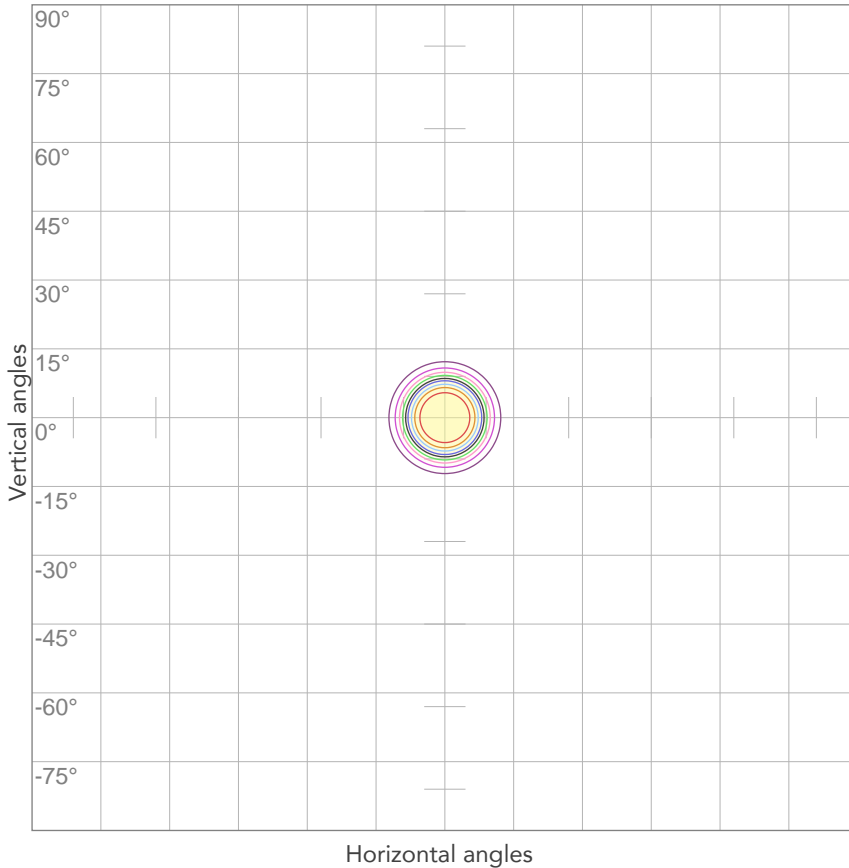
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



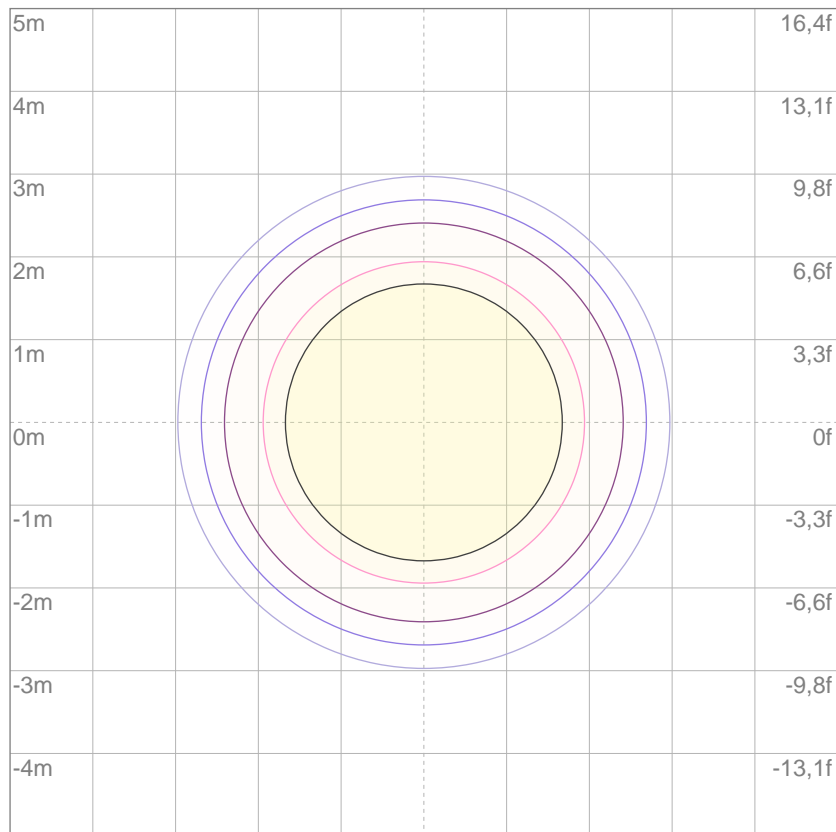
| | |
|-----|---------|
| 10% | 226 cd |
| 20% | 452 cd |
| 30% | 678 cd |
| 40% | 904 cd |
| 50% | 1130 cd |
| 60% | 1356 cd |
| 70% | 1582 cd |
| 80% | 1808 cd |

Conditions:

Number of c-planes: 2

Candela at center: 2260 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 22,6 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

265 lm

Peak candela output:

1119 cd

Light quality:

CRI: 93,3

Color temperature:

3171 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

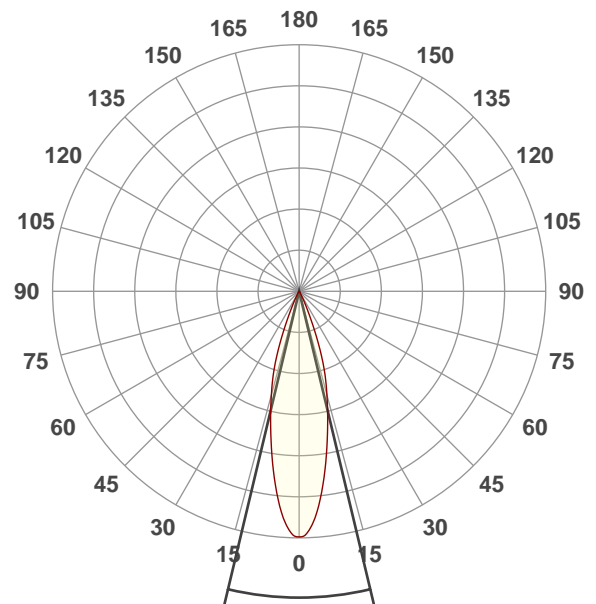
3200K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:12:31

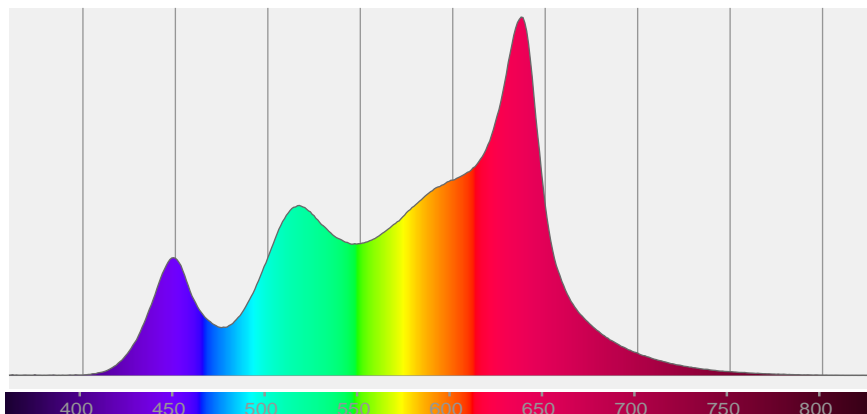


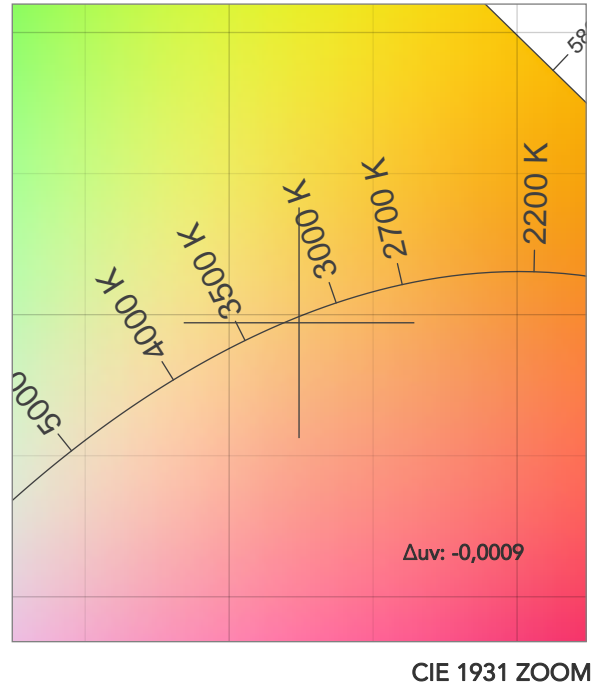
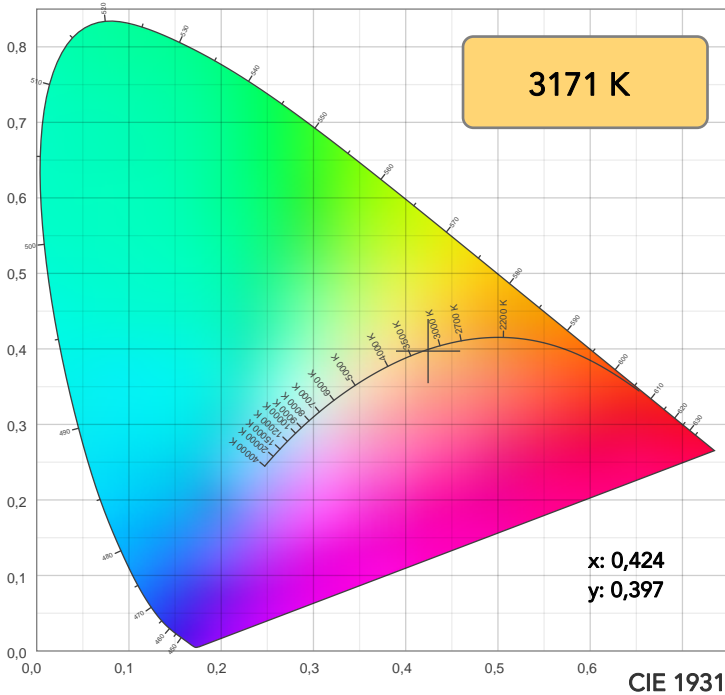
Beam angle 50%: 26,9°

Field angle 10%: 47°

Cut off angle 2.5%: 56,2°

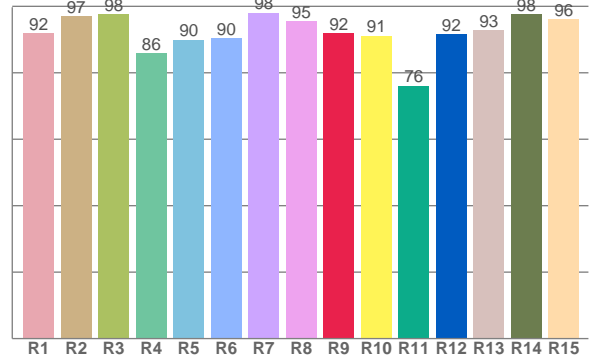
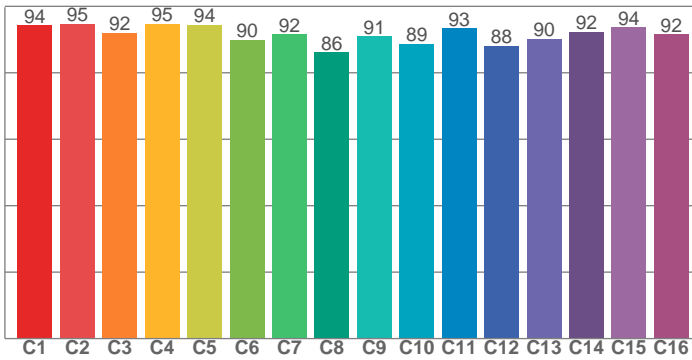
Spectra





TM30: 92,2

CRI: 93,3 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,8 | 97,0 | 97,6 | 86,0 | 90,0 | 90,3 | 98,1 | 95,4 | 91,9 | 91,2 | 76,1 | 91,6 | 92,7 | 97,6 | 96,2 |

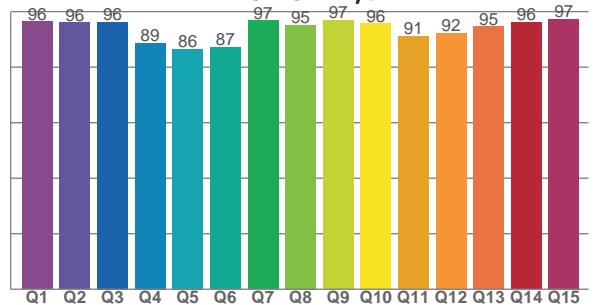
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 92,6



COLOR PARAMETERS

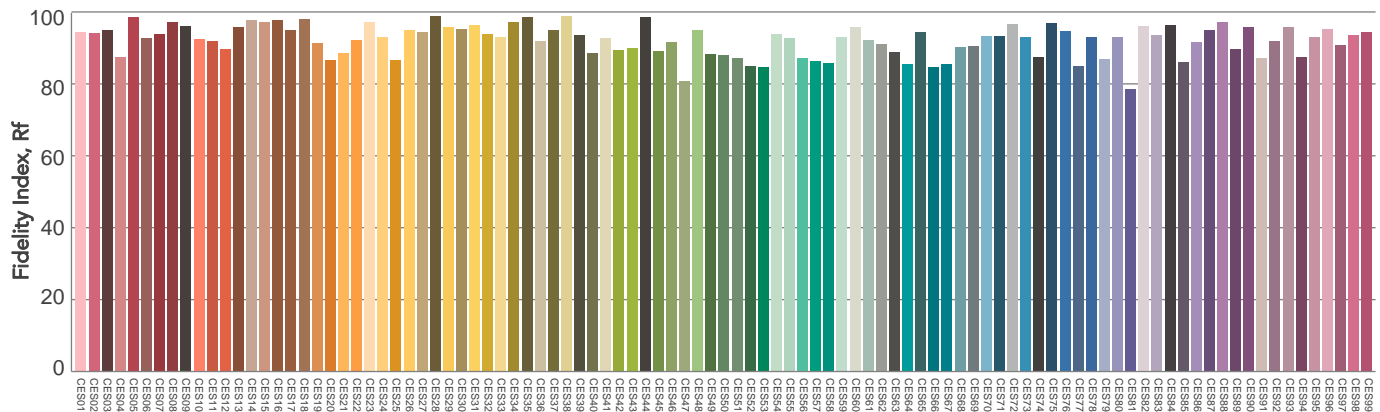
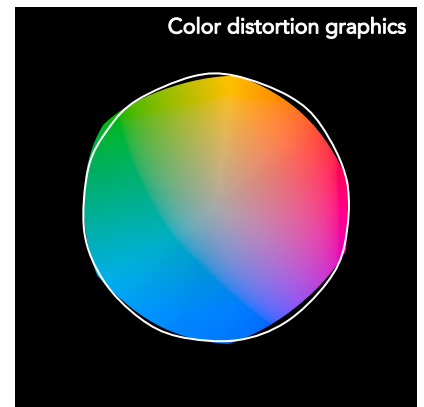
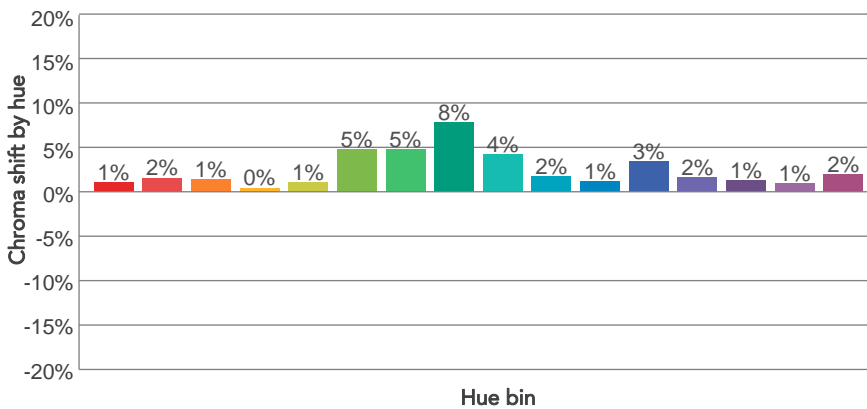
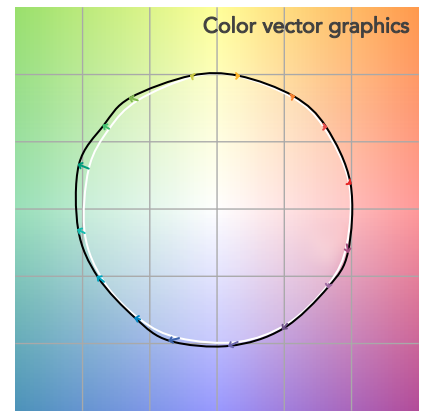
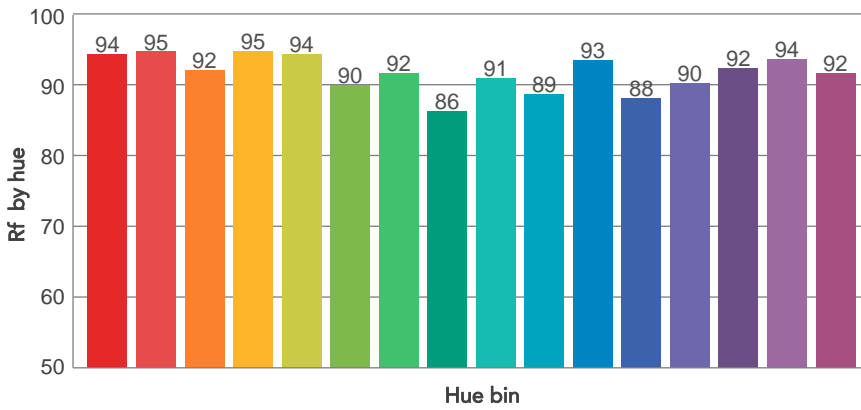
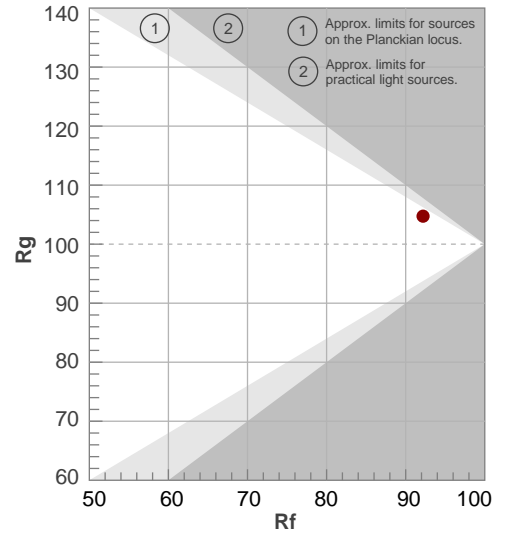
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|-----------------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

TM30 DETAILS

Rf 92,2
Fidelity index Rf

Rg 104,7
Gammut index

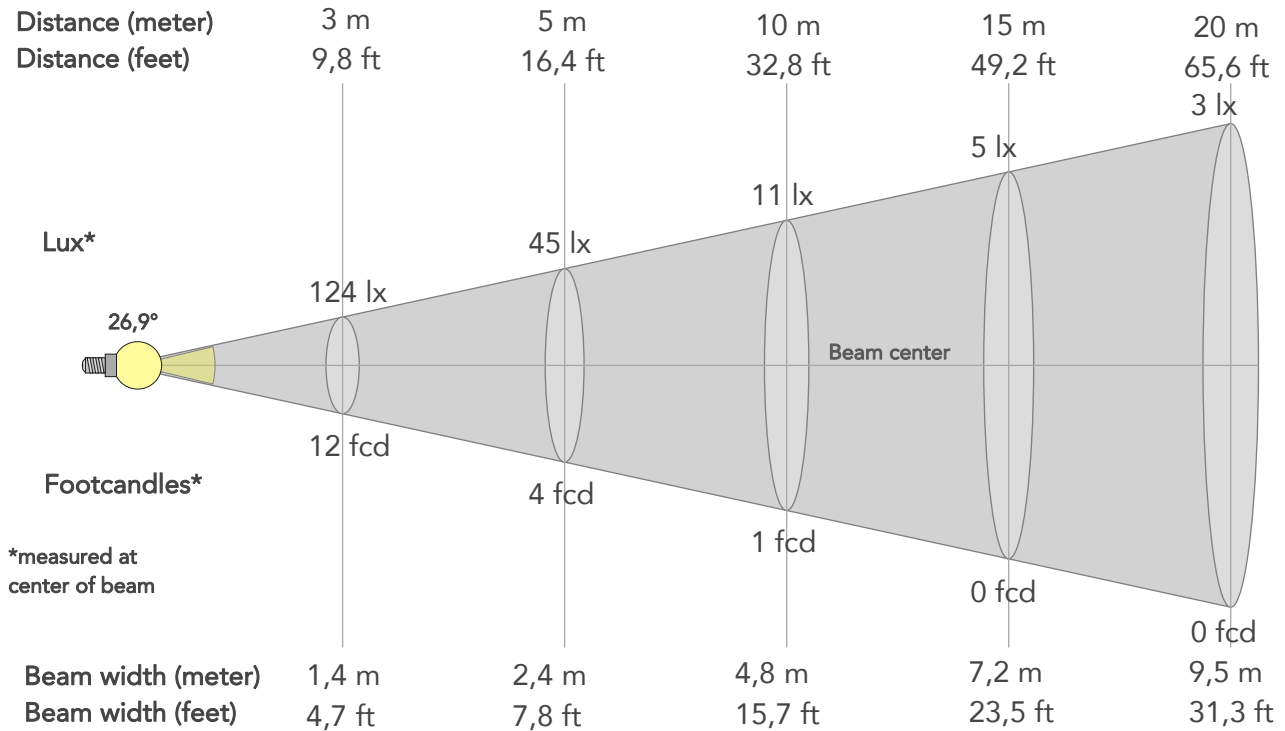
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 1% | -1% |
| 2 | 95 | 2% | -1% |
| 3 | 92 | 1% | -1% |
| 4 | 95 | 0% | -2% |
| 5 | 94 | 1% | 2% |
| 6 | 90 | 5% | 4% |
| 7 | 92 | 5% | 0% |
| 8 | 86 | 8% | -1% |
| 9 | 91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



BEAM DETAILS



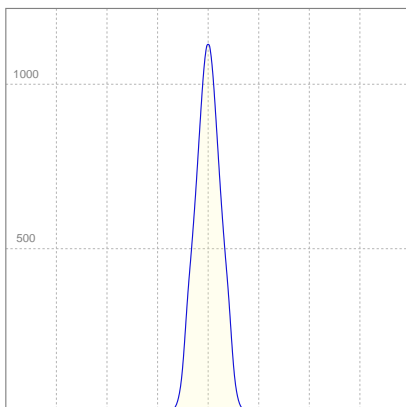
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 26,9° | 47° | 56,2° | 100,0% | 99,7% |



BEAM INTENSITIES AND WIDTHS

| | | | | | | | | | | | | | |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1119lx | 280lx | 124lx | 70lx | 45lx | 20lx | 11lx | 5lx | 3lx | 2lx | 1lx | 1lx | 0lx |
| Footcand. | 104fcd | 26fcd | 12fcd | 6fcd | 4fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,5m | 1m | 1,4m | 1,9m | 2,4m | 3,6m | 4,8m | 7,2m | 9,5m | 11,9m | 14,3m | 19,1m | 23,9m |
| Beam wid. | 1,6ft | 3,2ft | 4,7ft | 6,3ft | 7,8ft | 11,7ft | 15,7ft | 23,5ft | 31,3ft | 39,1ft | 47ft | 62,6ft | 78,3ft |

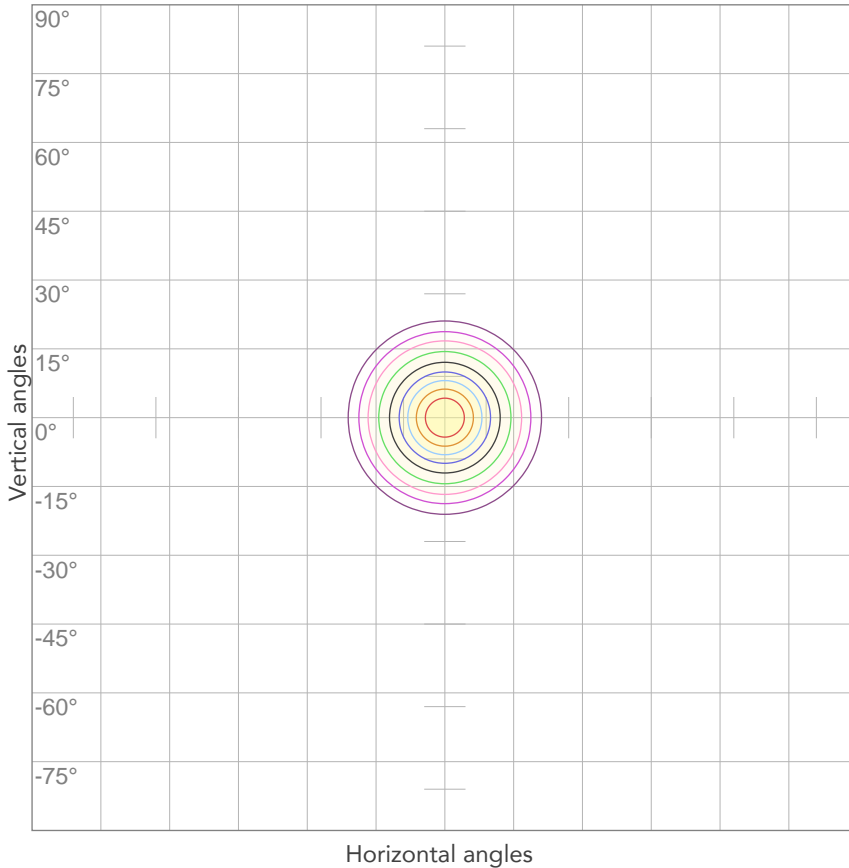
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



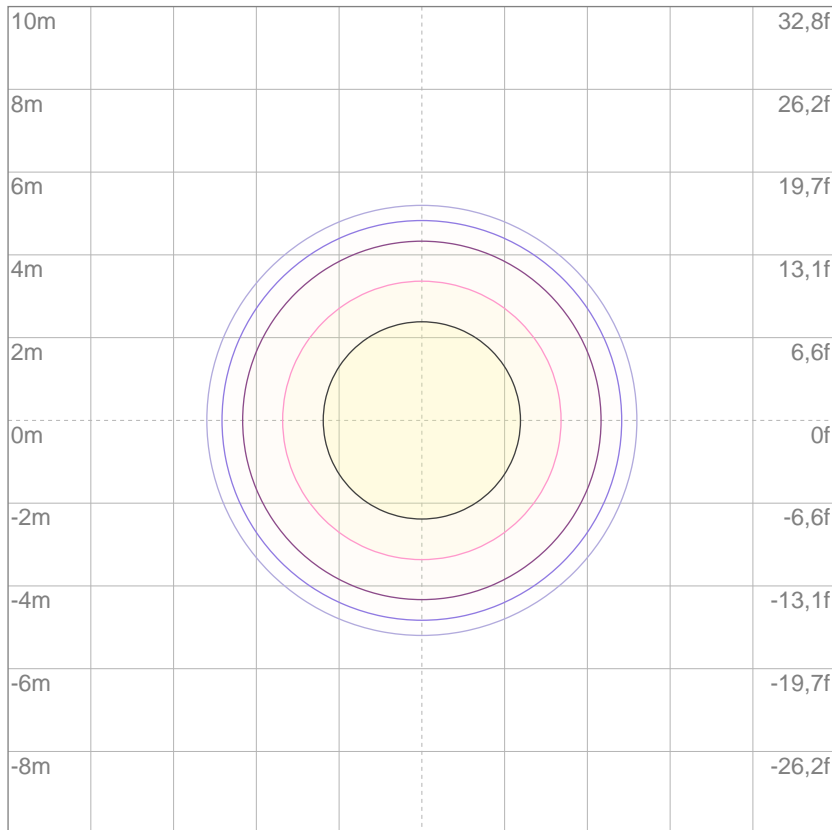
| | |
|-----|--------|
| 10% | 112 cd |
| 20% | 224 cd |
| 30% | 336 cd |
| 40% | 447 cd |
| 50% | 559 cd |
| 60% | 671 cd |
| 70% | 783 cd |
| 80% | 895 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1119 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 11,2 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

234 lm

Peak candela output:

2278 cd

Light quality:

CRI: 92,9

Color temperature:

2982 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

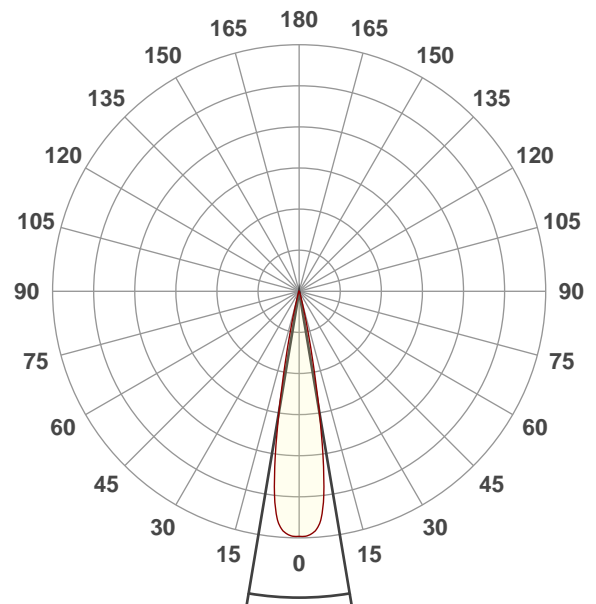
3200K

Operator:

Paolo Carvone

Date and time:

14/01/2021 11:58:07

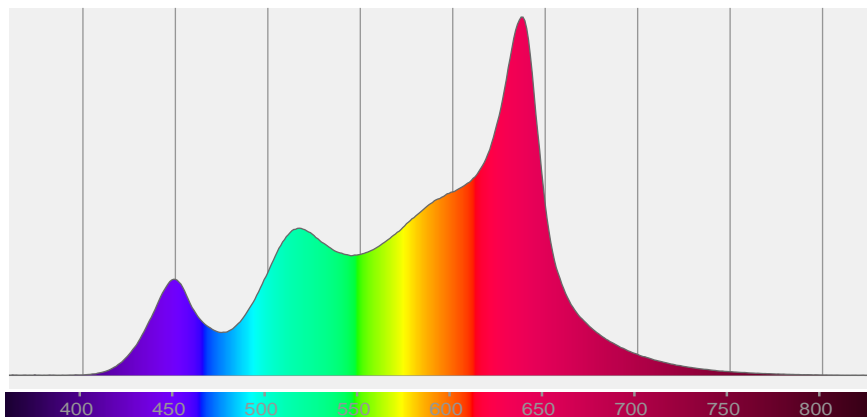


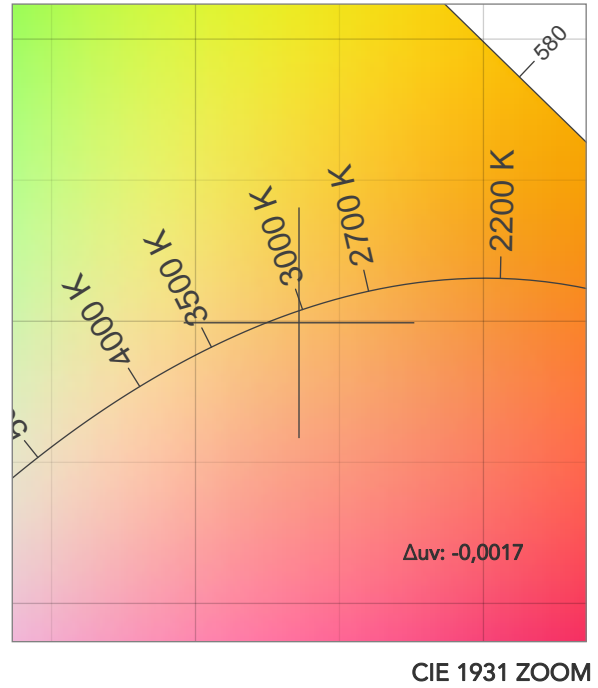
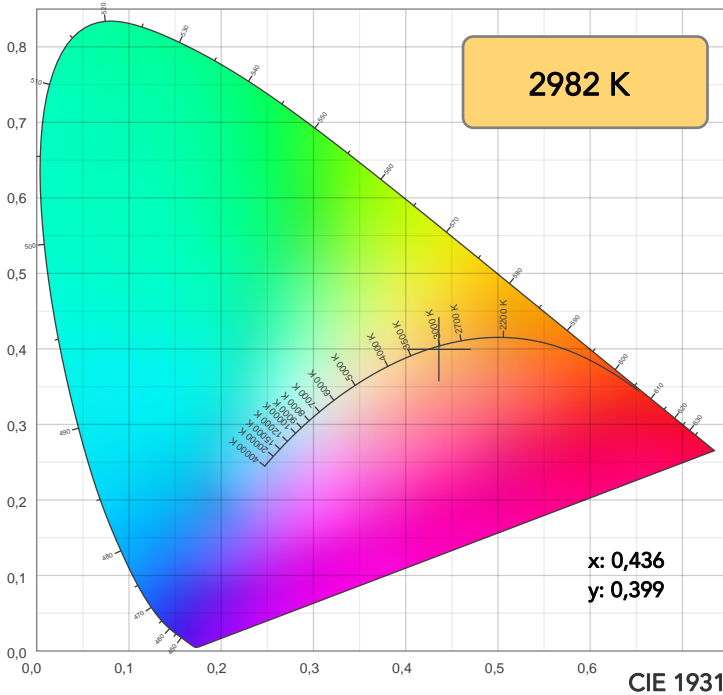
Beam angle 50%: 19°

Field angle 10%: 27,1°

Cut off angle 2.5%: 34,5°

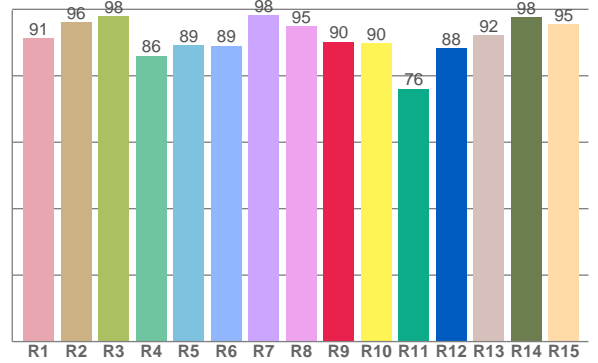
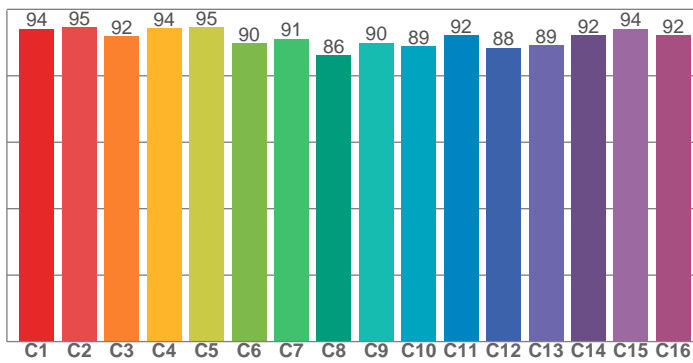
Spectra





TM30: 91,9

CRI: 92,9 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,4 | 96,2 | 97,9 | 86,1 | 89,3 | 89,1 | 98,2 | 95,0 | 90,3 | 89,9 | 76,1 | 88,4 | 92,1 | 97,7 | 95,5 |

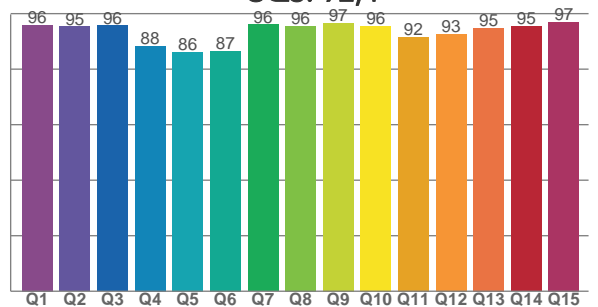
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 92,4



COLOR PARAMETERS

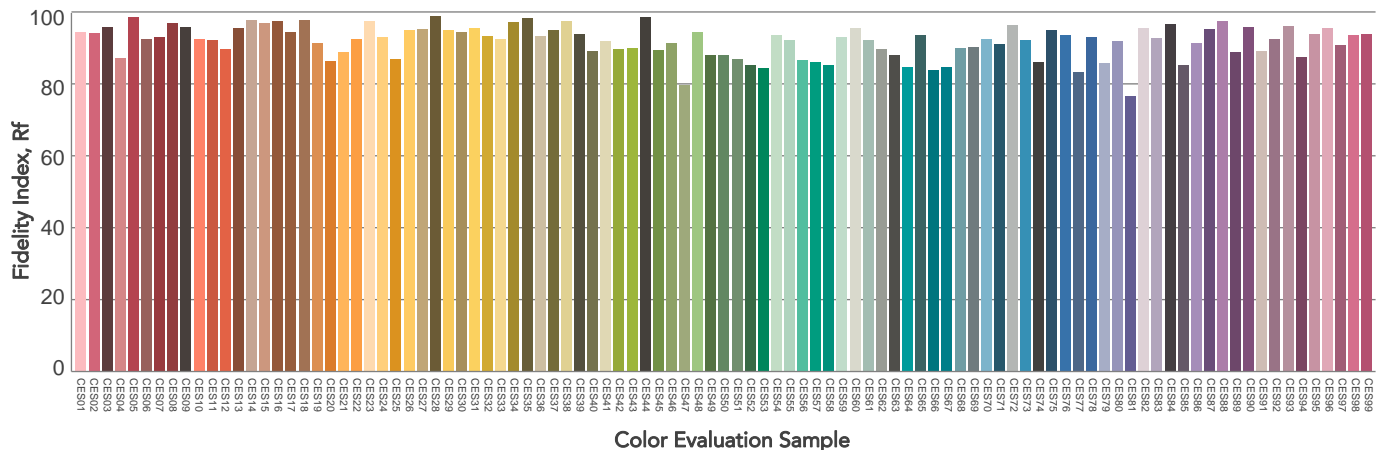
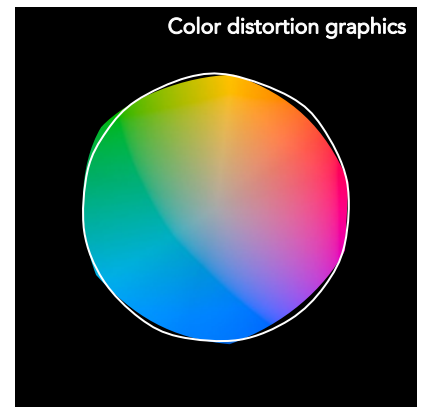
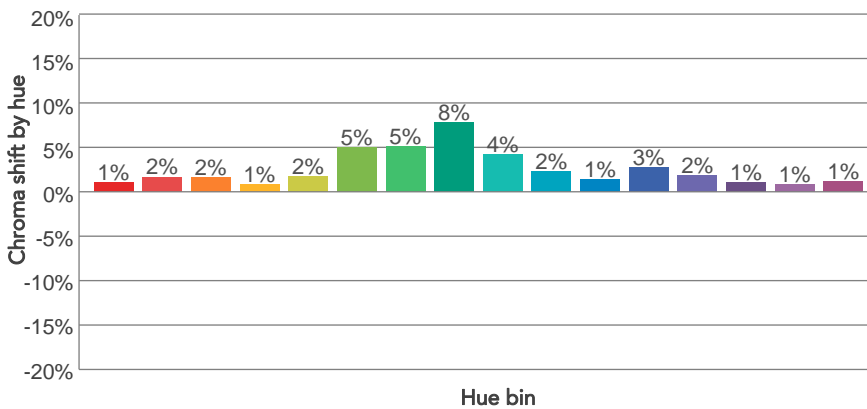
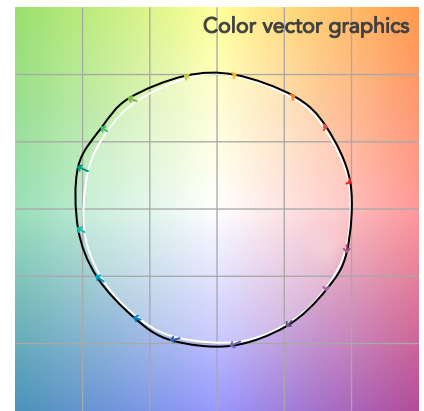
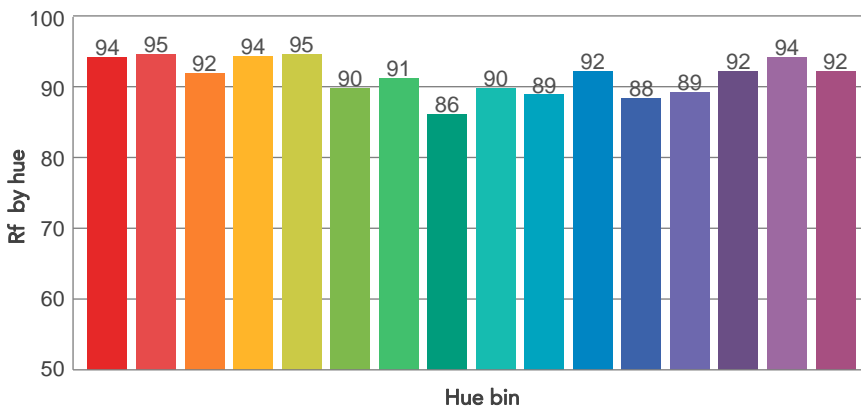
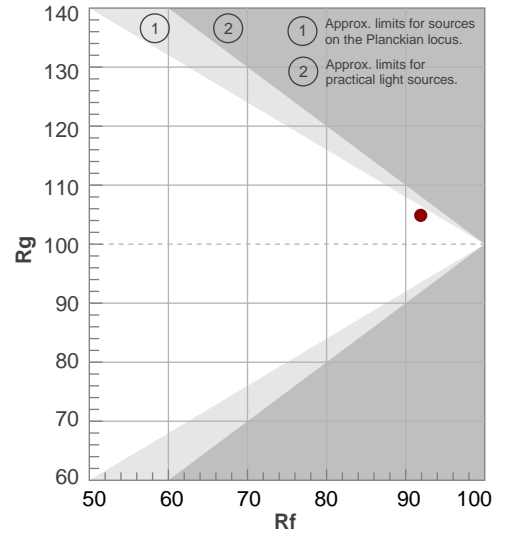
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|-----------------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

TM30 DETAILS

Rf 91,9
Fidelity index Rf

Rg 104,9
Gammut index

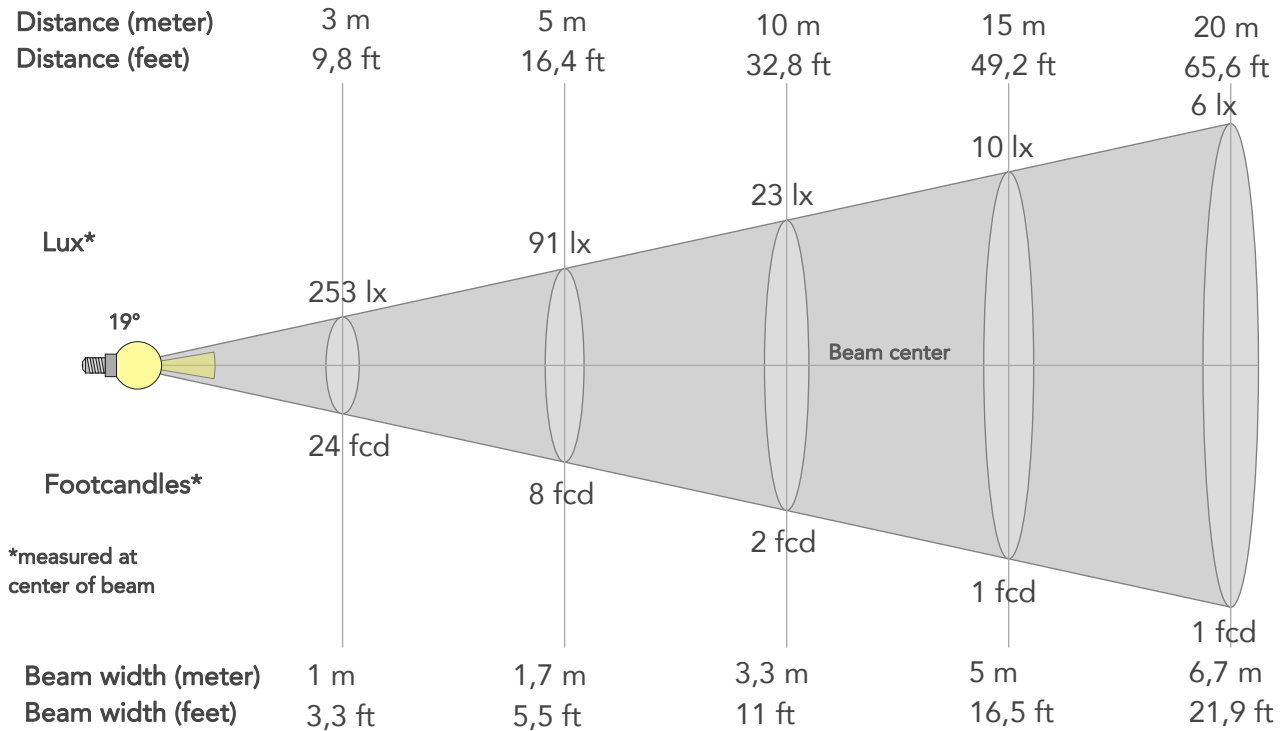
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 1% | -1% |
| 2 | 95 | 2% | -1% |
| 3 | 92 | 2% | -1% |
| 4 | 94 | 1% | -2% |
| 5 | 95 | 2% | 2% |
| 6 | 90 | 5% | 4% |
| 7 | 91 | 5% | 0% |
| 8 | 86 | 8% | -2% |
| 9 | 90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



BEAM DETAILS



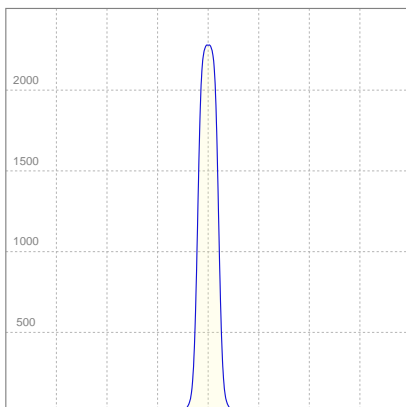
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 19° | 27,1° | 34,5° | 100,0% | 99,9% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 2278lx | 570lx | 253lx | 142lx | 91lx | 40lx | 23lx | 10lx | 6lx | 4lx | 3lx | 1lx | 1lx |
| Footcand. | 212fcd | 53fcd | 24fcd | 13fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,3m | 0,7m | 1m | 1,3m | 1,7m | 2,5m | 3,3m | 5m | 6,7m | 8,4m | 10m | 13,4m | 16,7m |
| Beam wid. | 1,1ft | 2,2ft | 3,3ft | 4,4ft | 5,5ft | 8,2ft | 11ft | 16,5ft | 21,9ft | 27,4ft | 32,9ft | 43,9ft | 54,9ft |

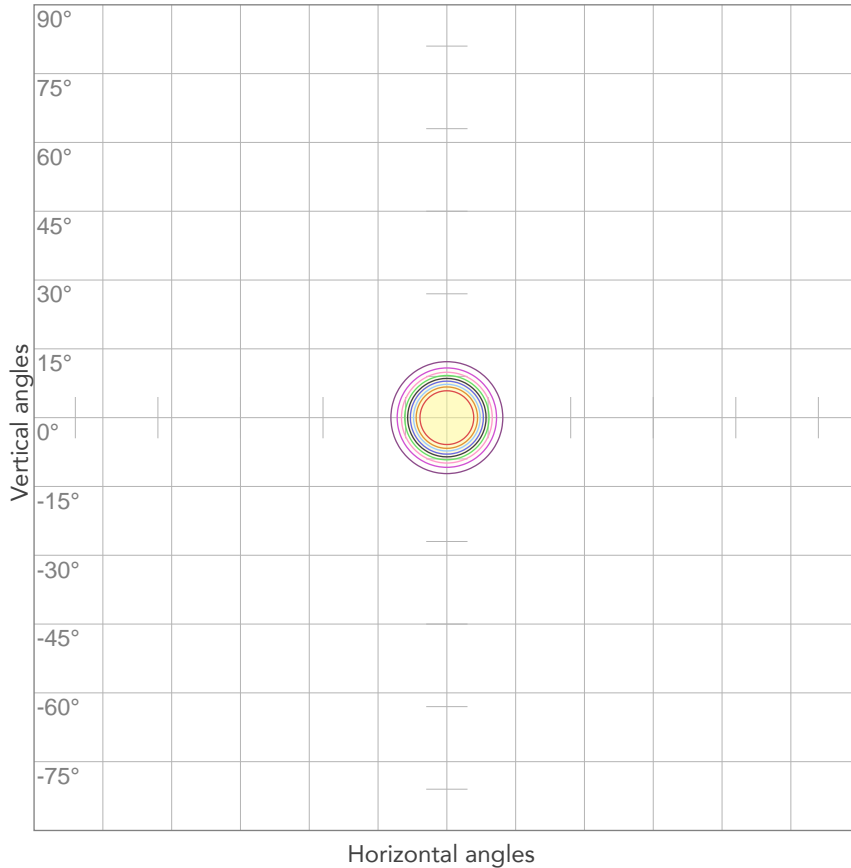
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



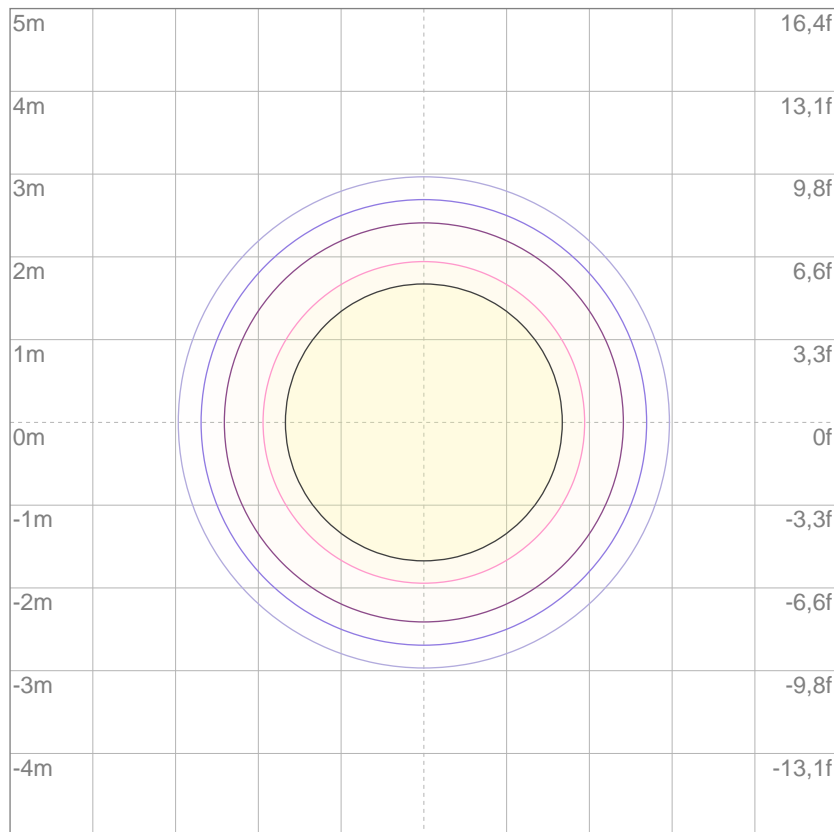
| | |
|-----|---------|
| 10% | 228 cd |
| 20% | 456 cd |
| 30% | 683 cd |
| 40% | 911 cd |
| 50% | 1139 cd |
| 60% | 1367 cd |
| 70% | 1595 cd |
| 80% | 1822 cd |

Conditions:

Number of c-planes: 2

Candela at center: 2278 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 22,8 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

277 lm

Peak candela output:

1156 cd

Light quality:

CRI: 93,5

Color temperature:

3910 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

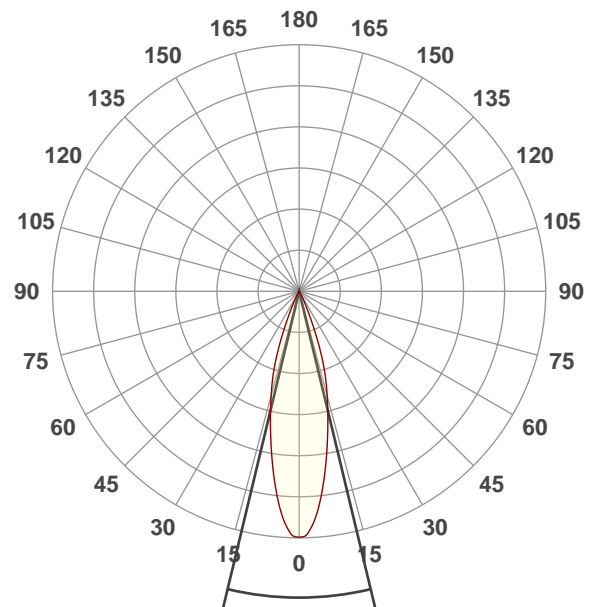
4000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:14:35

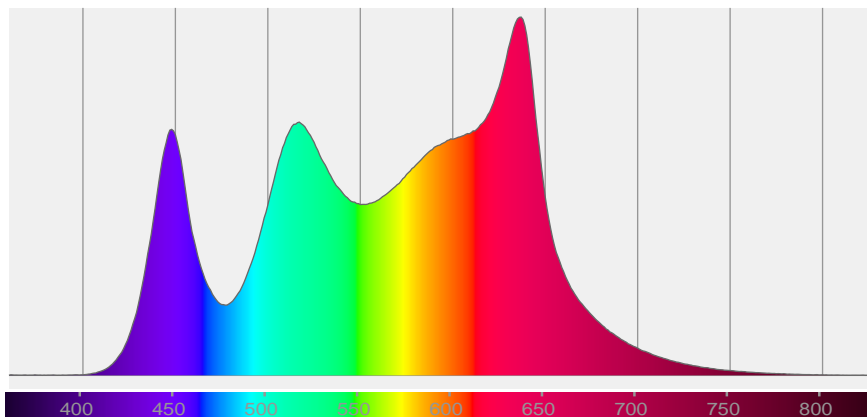


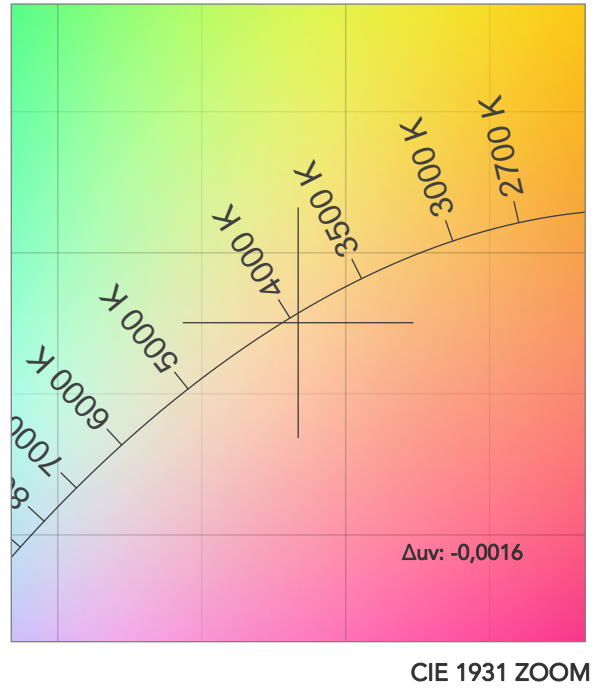
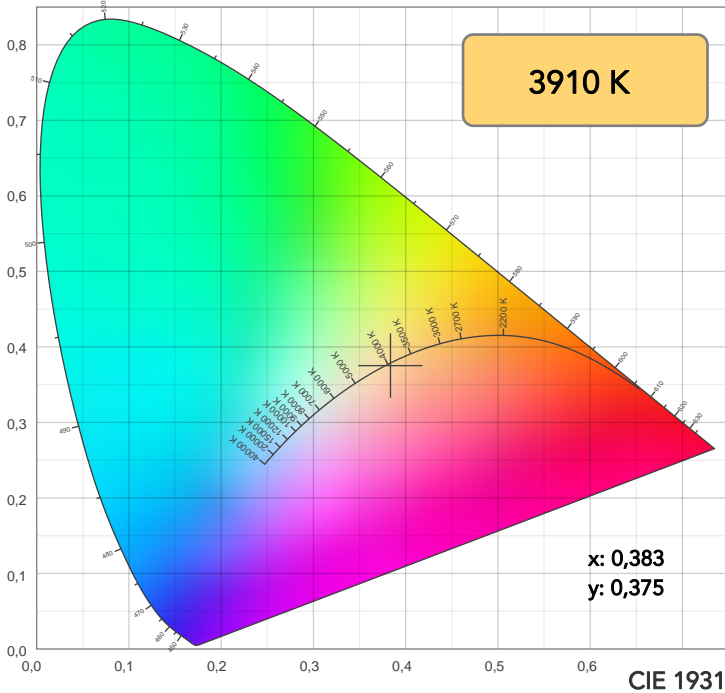
Beam angle 50%: 27°

Field angle 10%: 47°

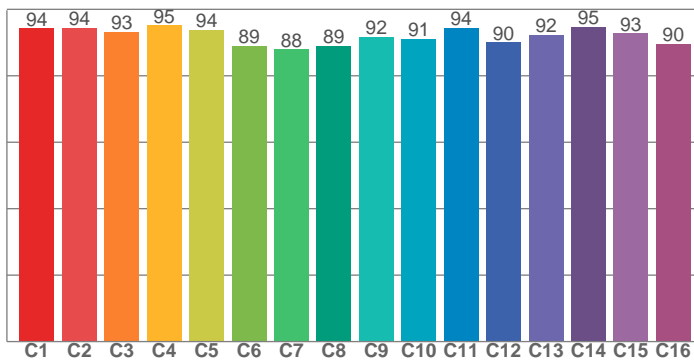
Cut off angle 2.5%: 56,3°

Spectra

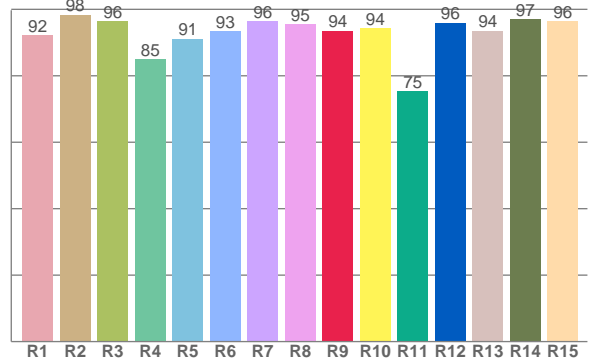




TM30: 92,4



CRI: 93,5 (R1-R8)



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

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

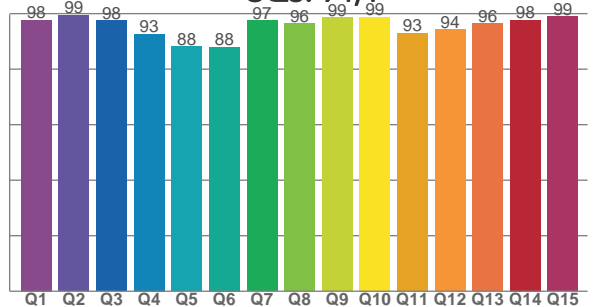
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,3 | 94,5 | 93,1 | 95,2 | 93,8 | 89,1 | 87,9 | 89,0 | 91,7 | 91,0 | 94,4 | 90,0 | 92,3 | 94,6 | 92,7 | 89,6 |

CQS Q values

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

CQS: 94,4



COLOR PARAMETERS

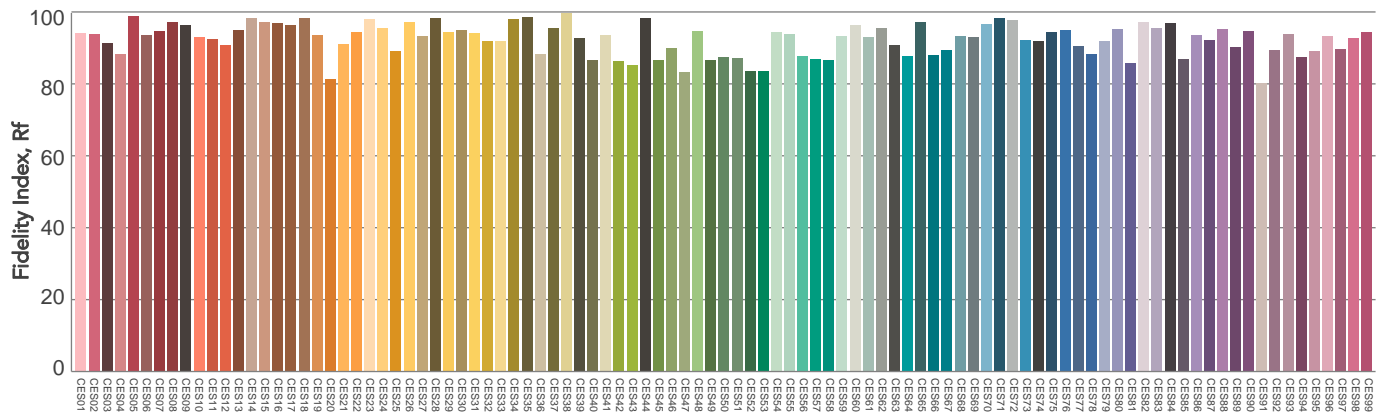
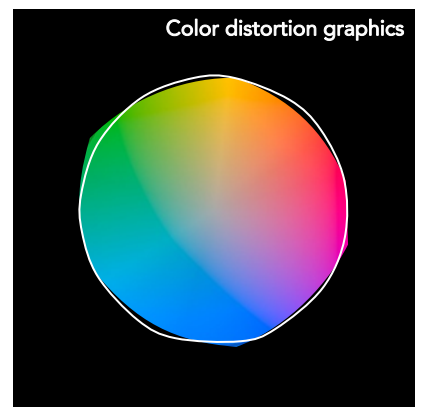
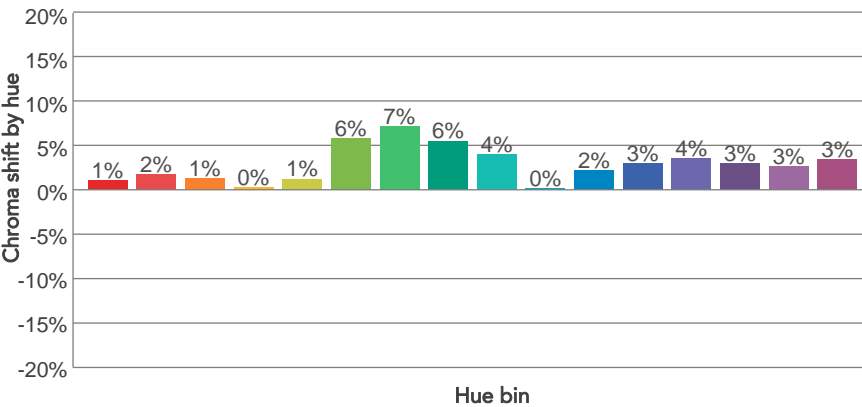
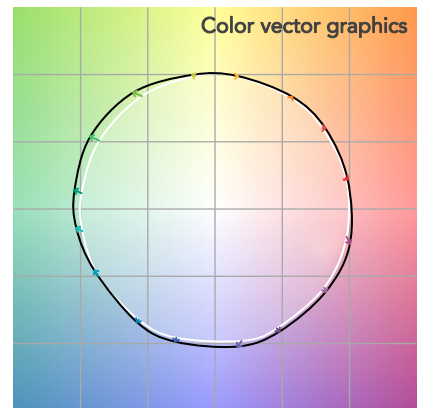
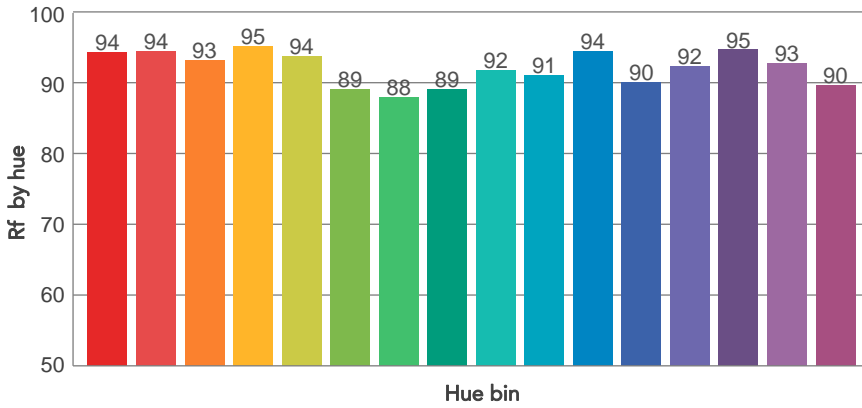
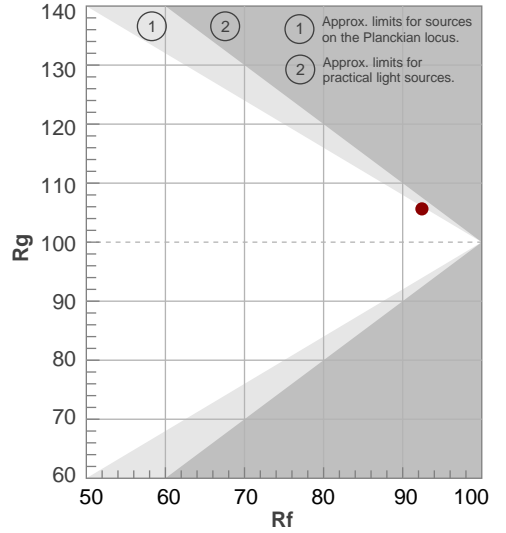
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|-----------------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

TM30 DETAILS

Rf 92,4
Fidelity index Rf

Rg 105,6
Gammut index

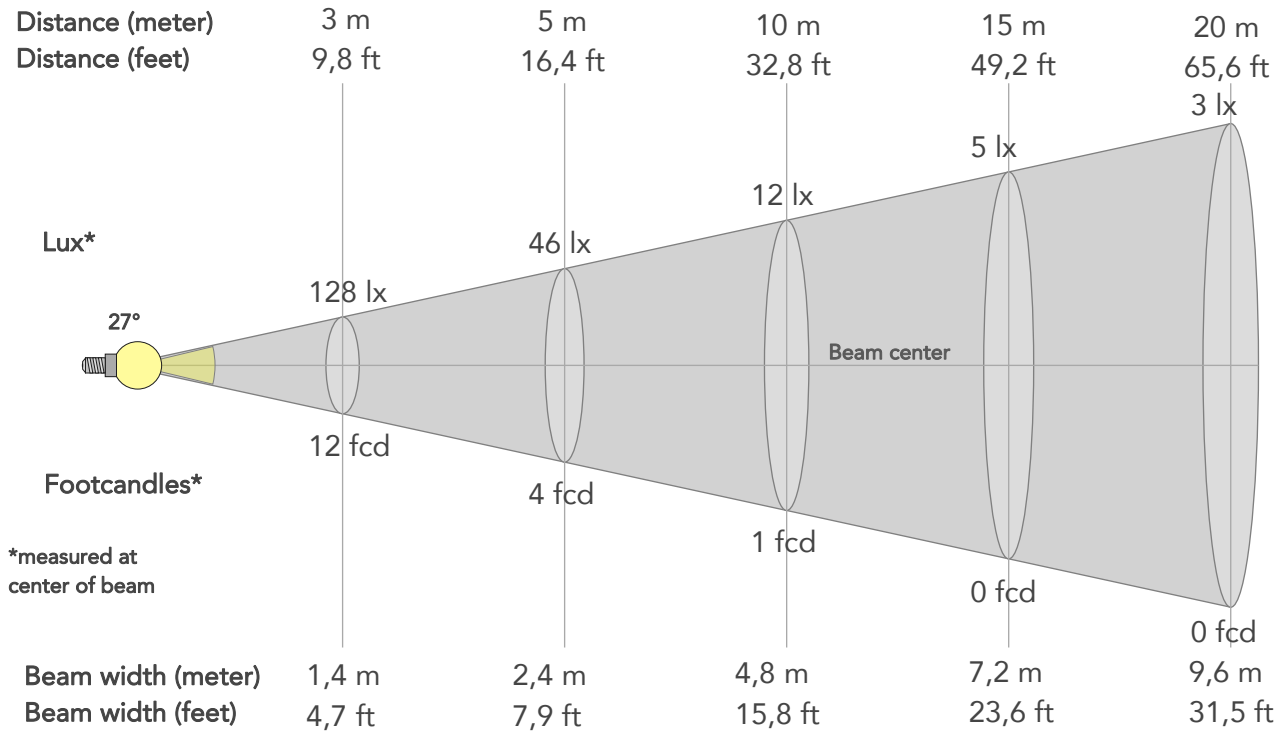
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 1% | -2% |
| 2 | 94 | 2% | -1% |
| 3 | 93 | 1% | 0% |
| 4 | 95 | 0% | -1% |
| 5 | 94 | 1% | 2% |
| 6 | 89 | 6% | 4% |
| 7 | 88 | 7% | 1% |
| 8 | 89 | 6% | -1% |
| 9 | 92 |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



BEAM DETAILS



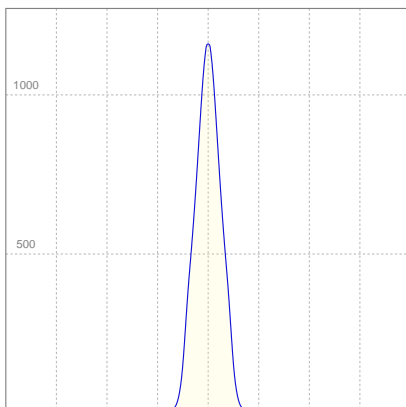
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 27° | 47° | 56,3° | 99,9% | 99,5% |



BEAM INTENSITIES AND WIDTHS

| | | | | | | | | | | | | | |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1156lx | 289lx | 128lx | 72lx | 46lx | 21lx | 12lx | 5lx | 3lx | 2lx | 1lx | 1lx | 0lx |
| Footcand. | 107fcd | 27fcd | 12fcd | 7fcd | 4fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,5m | 1m | 1,4m | 1,9m | 2,4m | 3,6m | 4,8m | 7,2m | 9,6m | 12m | 14,4m | 19,2m | 24m |
| Beam wid. | 1,6ft | 3,2ft | 4,7ft | 6,3ft | 7,9ft | 11,8ft | 15,8ft | 23,6ft | 31,5ft | 39,4ft | 47,3ft | 63ft | 78,8ft |

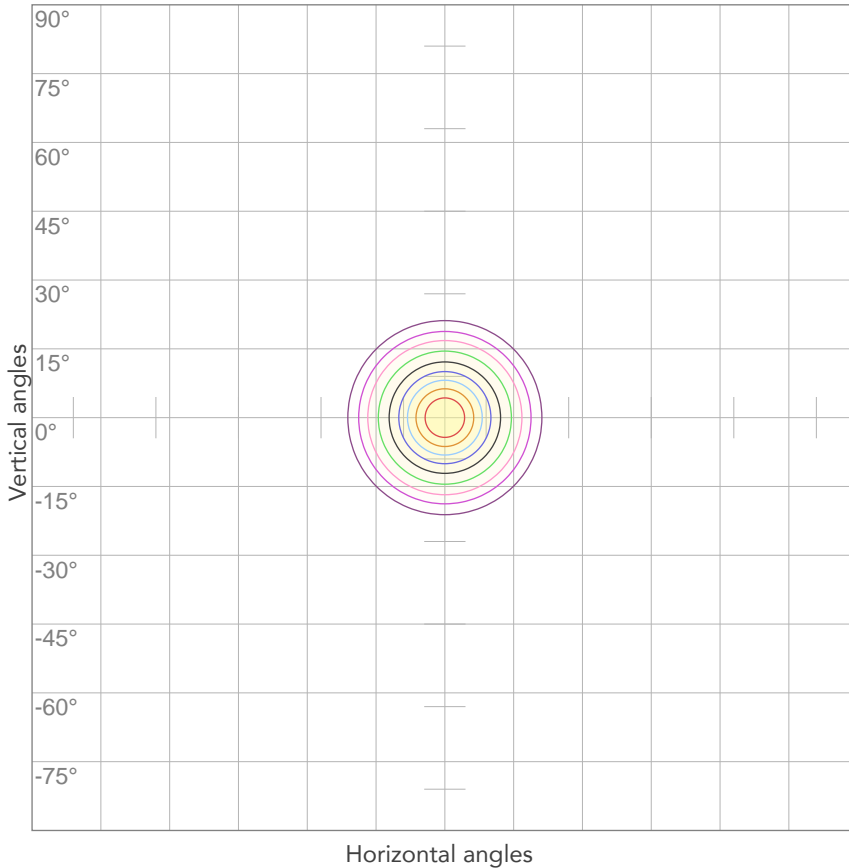
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



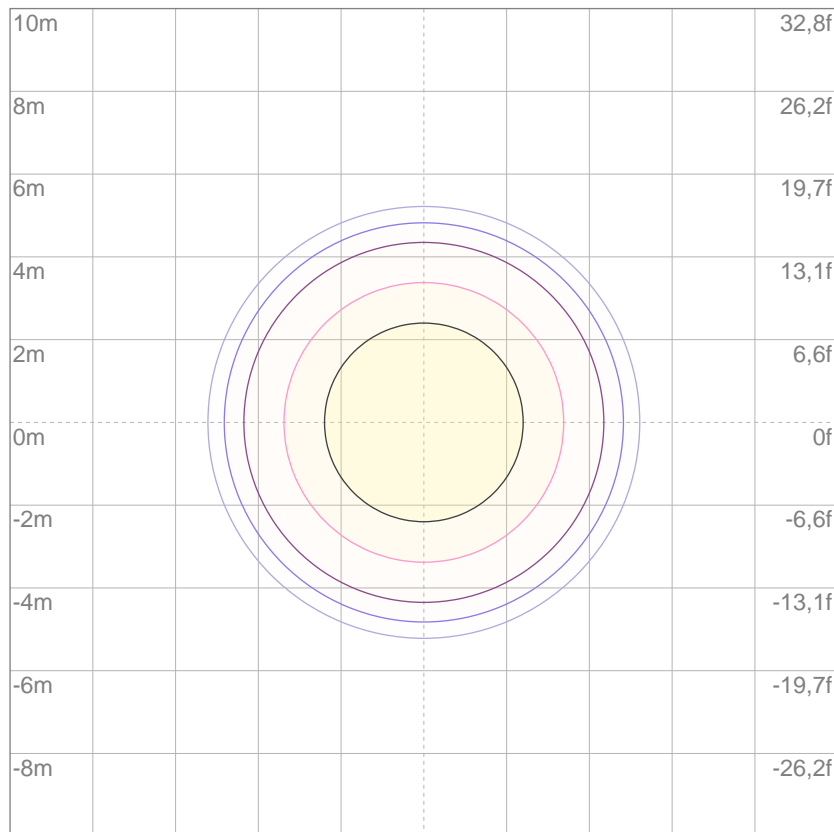
| | |
|-----|--------|
| 10% | 116 cd |
| 20% | 231 cd |
| 30% | 347 cd |
| 40% | 462 cd |
| 50% | 578 cd |
| 60% | 694 cd |
| 70% | 809 cd |
| 80% | 925 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1156 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 11,6 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

248 lm

Peak candela output:

2403 cd

Light quality:

CRI: 93,5

Color temperature:

3889 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

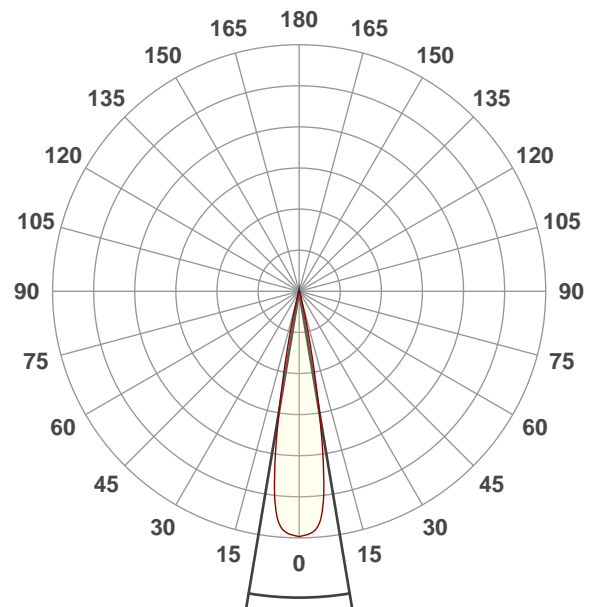
4000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:00:39

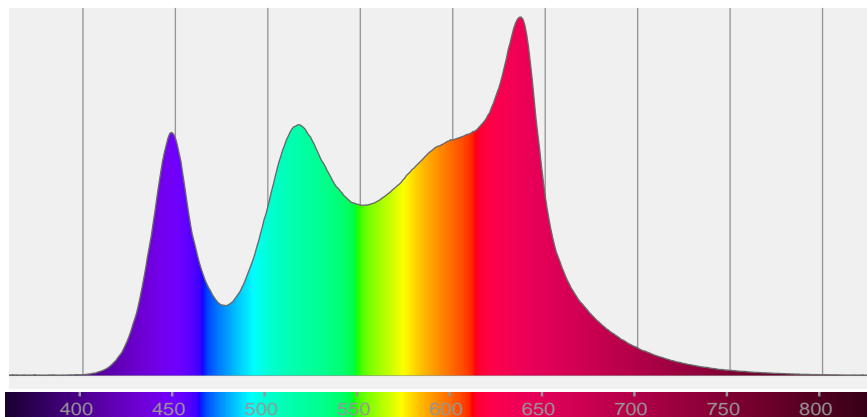


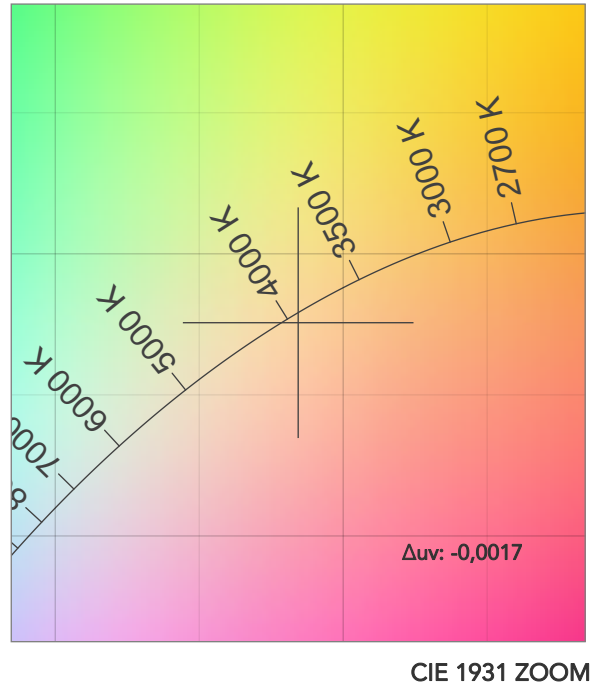
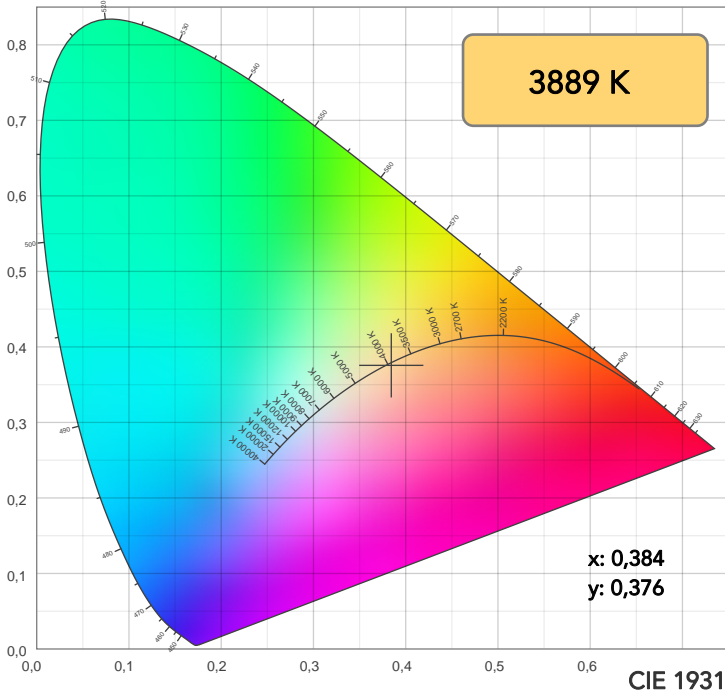
Beam angle 50%: 19°

Field angle 10%: 27,2°

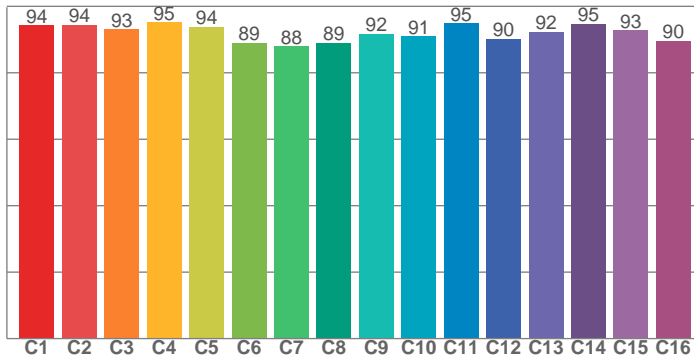
Cut off angle 2.5%: 34,6°

Spectra

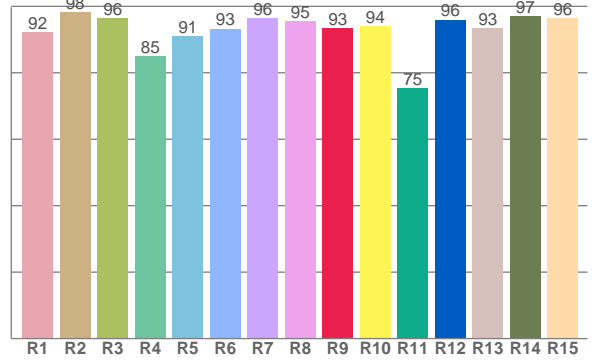




TM30: 92,4



CRI: 93,5 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 92,2 | 98,3 | 96,4 | 84,9 | 91,1 | 93,2 | 96,4 | 95,4 | 93,4 | 94,1 | 75,3 | 96,0 | 93,4 | 97,0 | 96,3 |

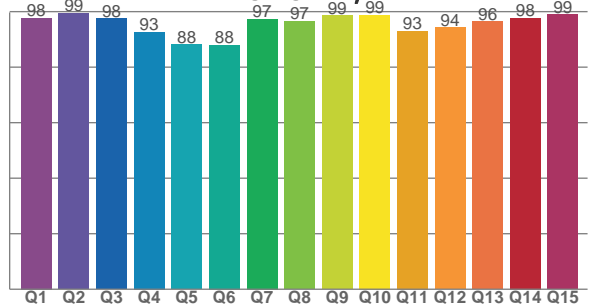
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 94,4



COLOR PARAMETERS

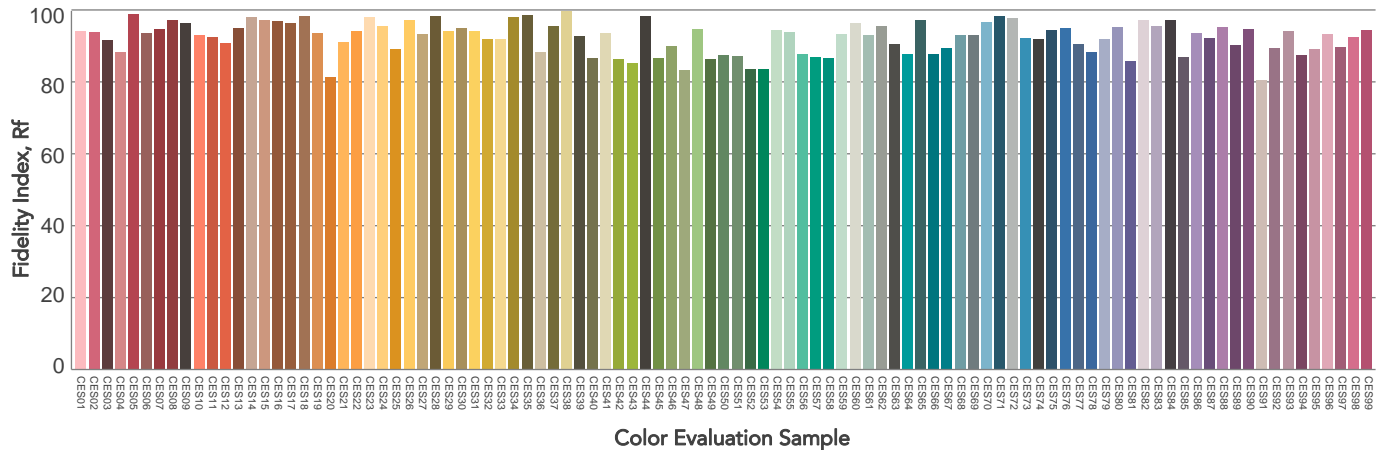
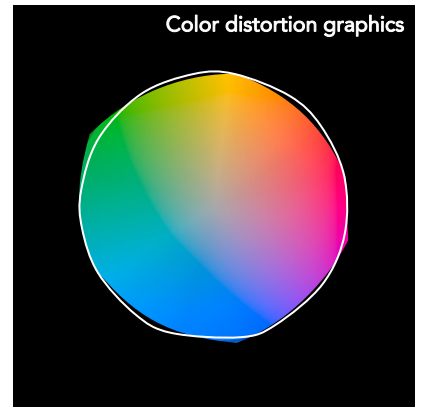
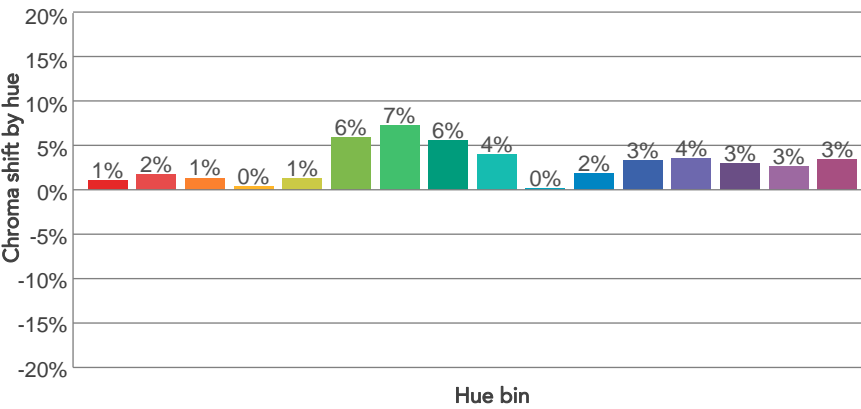
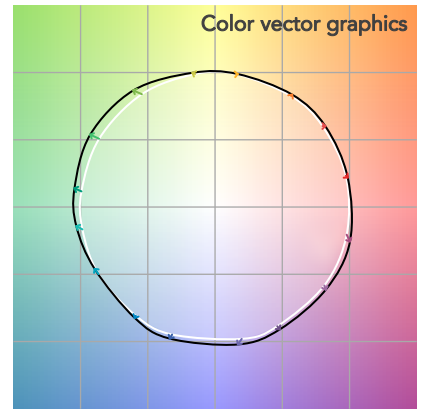
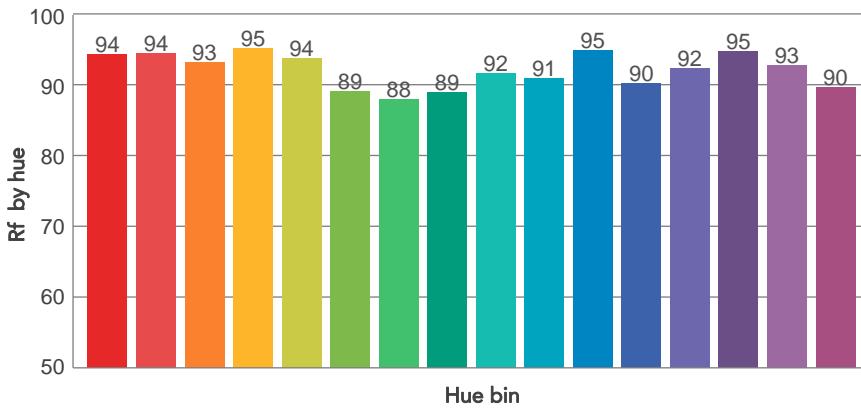
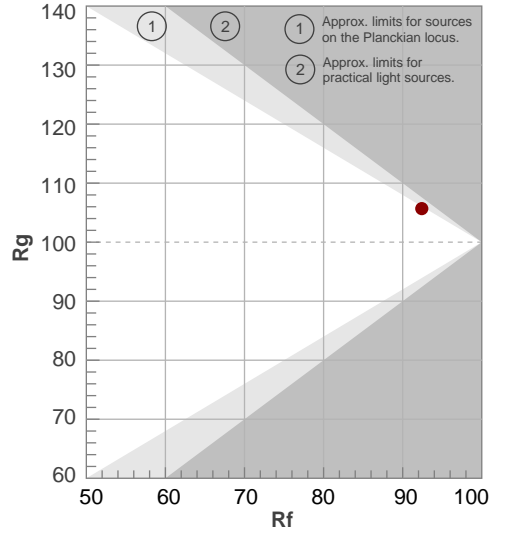
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 3889 K | 93,5 | 93,4 | 92,4 | 105,7 | 94,4 | 81 | 0,384 | 0,376 | -0,0017 |

TM30 DETAILS

Rf 92,4
Fidelity index Rf

Rg 105,7
Gammut index

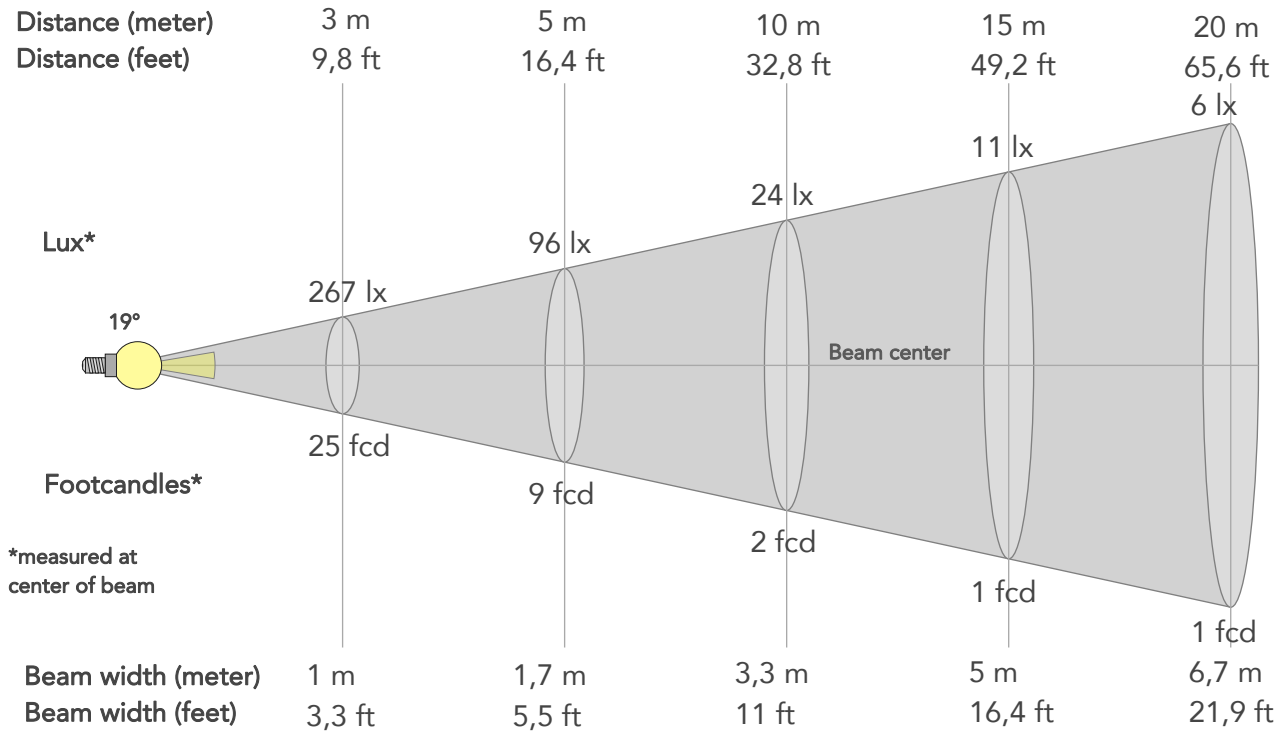
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 1% | -2% |
| 2 | 94 | 2% | -1% |
| 3 | 93 | 1% | 0% |
| 4 | 95 | 0% | -1% |
| 5 | 94 | 1% | 2% |
| 6 | 89 | 6% | 4% |
| 7 | 88 | 7% | 1% |
| 8 | 89 | 6% | -1% |
| 9 | 92 |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



BEAM DETAILS



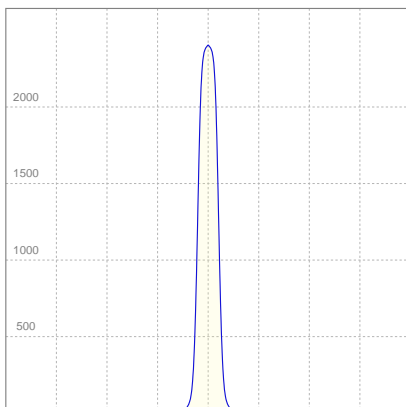
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 19° | 27,2° | 34,6° | 100,0% | 99,9% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 2403lx | 601lx | 267lx | 150lx | 96lx | 43lx | 24lx | 11lx | 6lx | 4lx | 3lx | 2lx | 1lx |
| Footcand. | 223fcd | 56fcd | 25fcd | 14fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,3m | 0,7m | 1m | 1,3m | 1,7m | 2,5m | 3,3m | 5m | 6,7m | 8,4m | 10m | 13,4m | 16,7m |
| Beam wid. | 1,1ft | 2,2ft | 3,3ft | 4,4ft | 5,5ft | 8,2ft | 11ft | 16,4ft | 21,9ft | 27,4ft | 32,9ft | 43,9ft | 54,8ft |

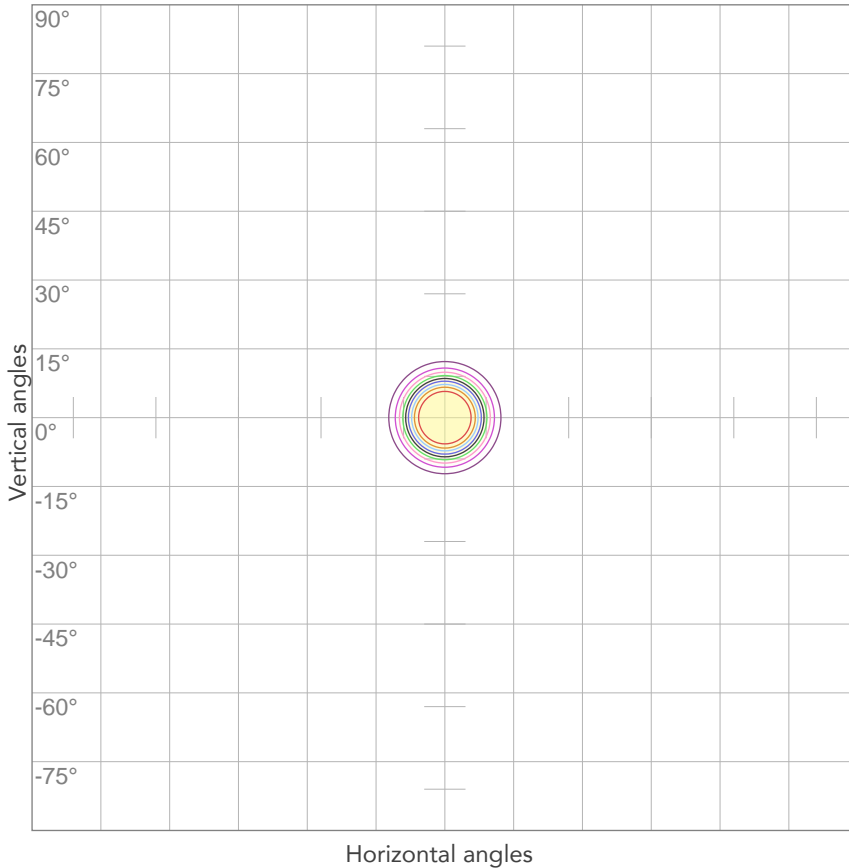
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



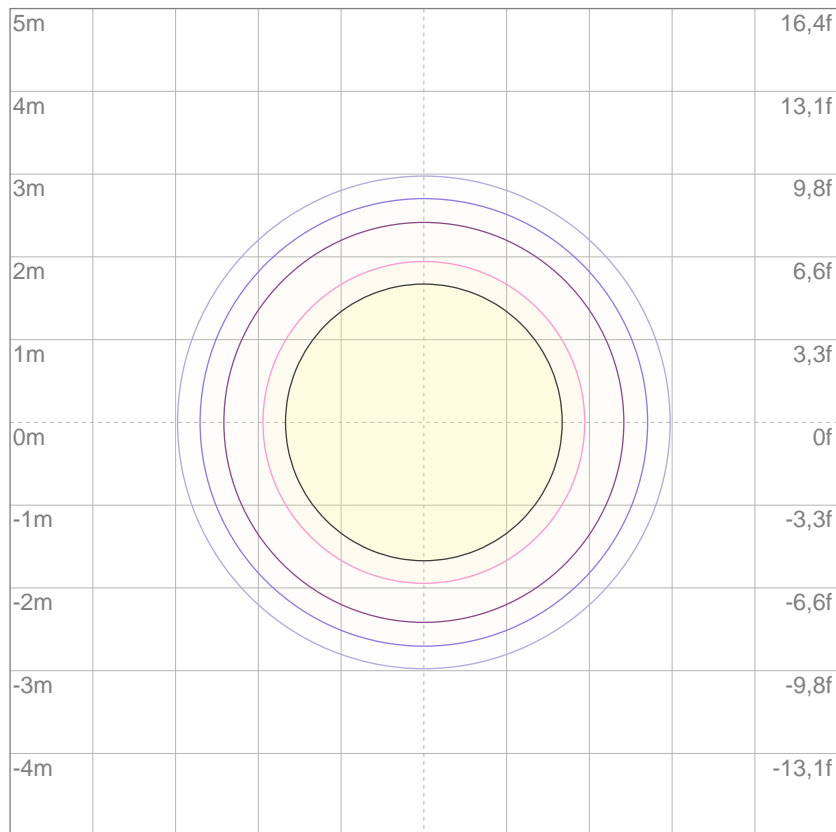
| | |
|-----|---------|
| 10% | 240 cd |
| 20% | 481 cd |
| 30% | 721 cd |
| 40% | 961 cd |
| 50% | 1202 cd |
| 60% | 1442 cd |
| 70% | 1682 cd |
| 80% | 1923 cd |

Conditions:

Number of c-planes: 2

Candela at center: 2403 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 24,0 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

302 lm

Peak candela output:

1264 cd

Light quality:

CRI: 91,6

Color temperature:

5561 K

PRODUCT NAME:

ECLDISPLAYFC

MEASUREMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

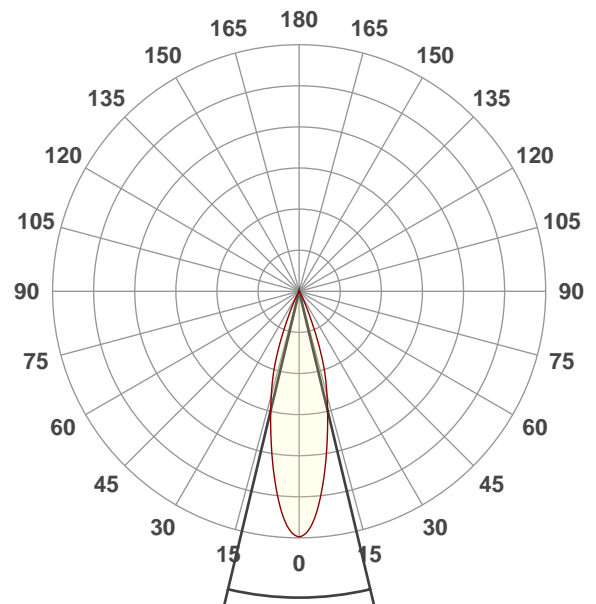
5600K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:16:39

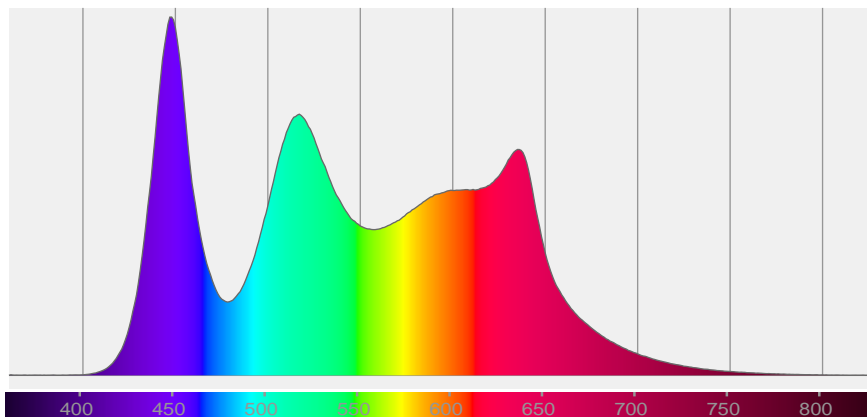


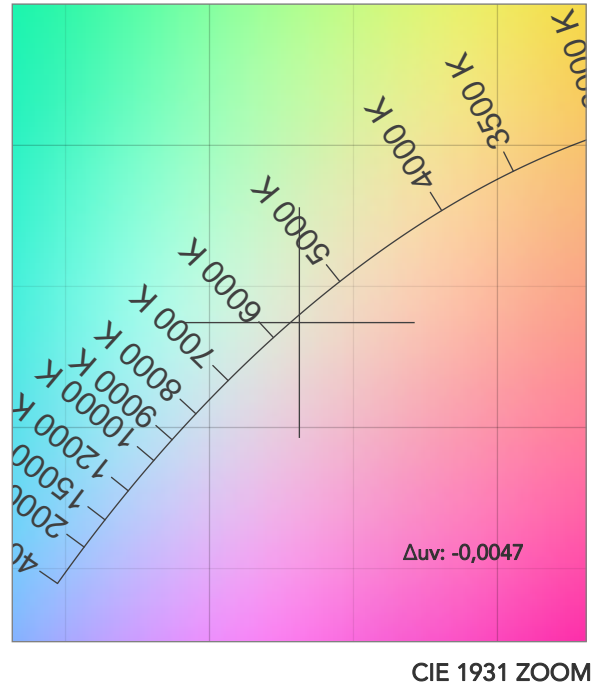
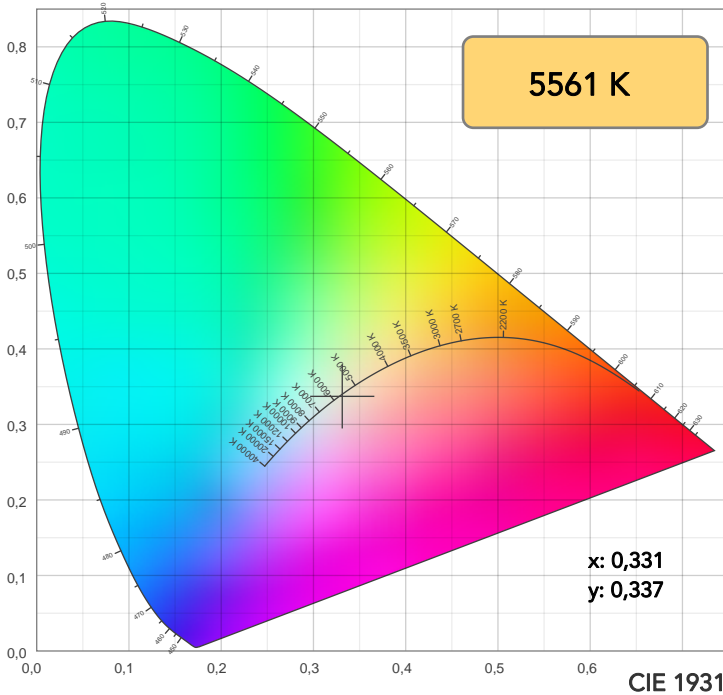
Beam angle 50%: 26,8°

Field angle 10%: 47,1°

Cut off angle 2.5%: 56,4°

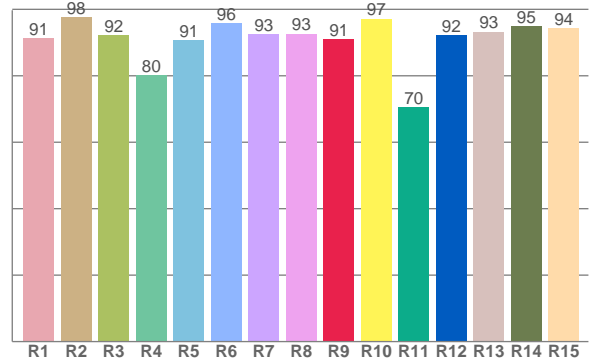
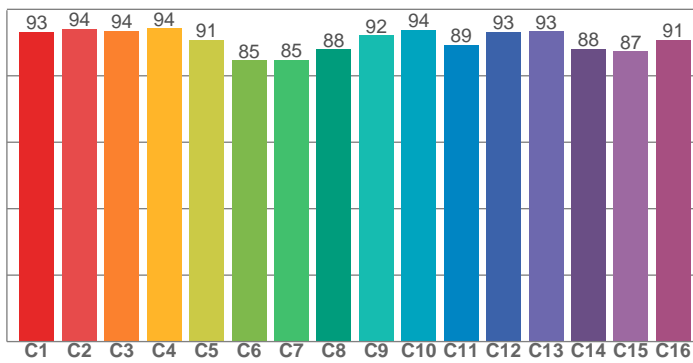
Spectra





TM30: 90,8

CRI: 91,6 (R1-R8)



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

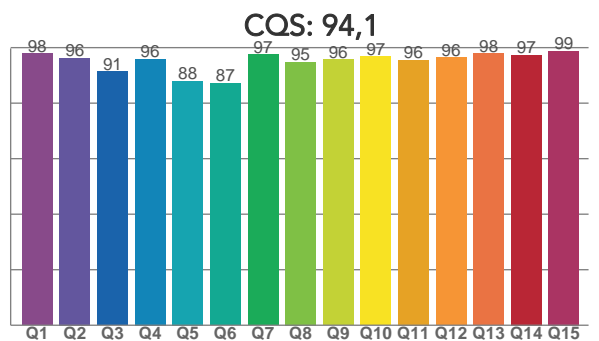
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,3 | 97,7 | 92,2 | 80,1 | 90,8 | 95,7 | 92,5 | 92,7 | 90,9 | 97,1 | 70,4 | 92,2 | 93,2 | 95,0 | 94,3 |

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

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

CQS Q values

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



COLOR PARAMETERS

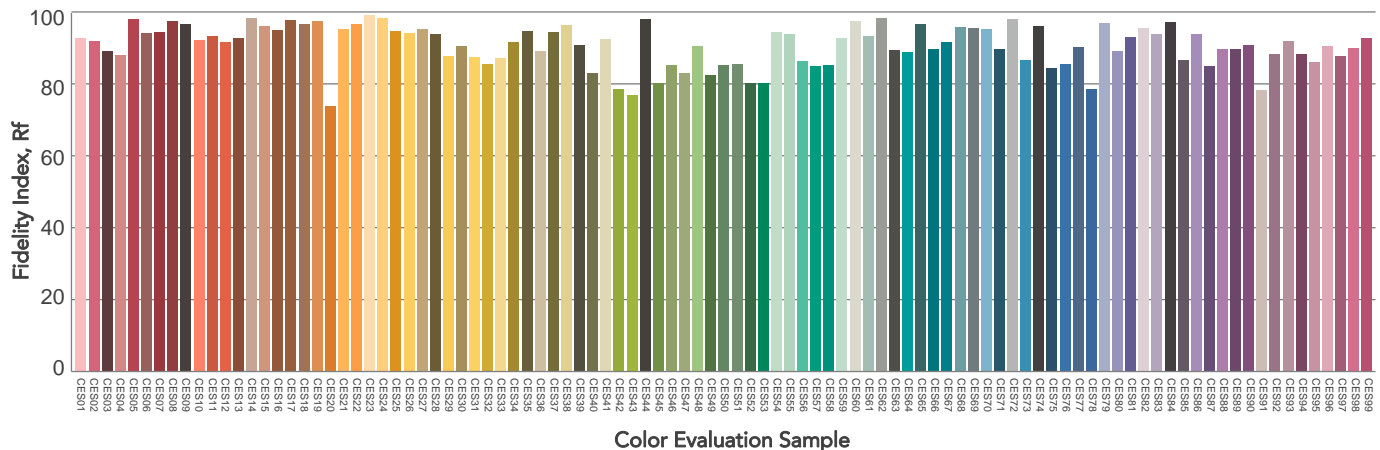
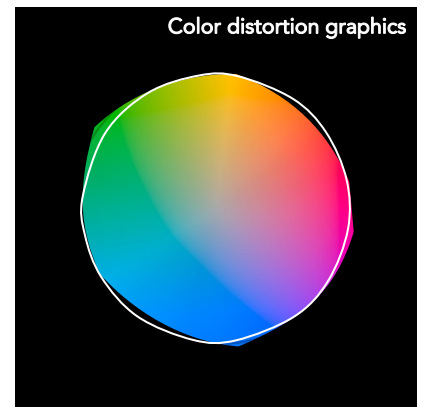
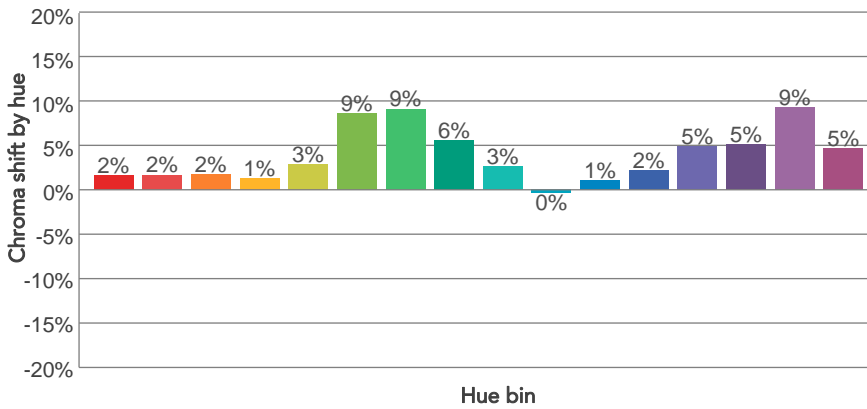
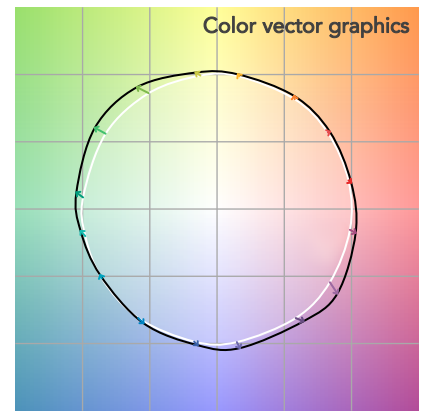
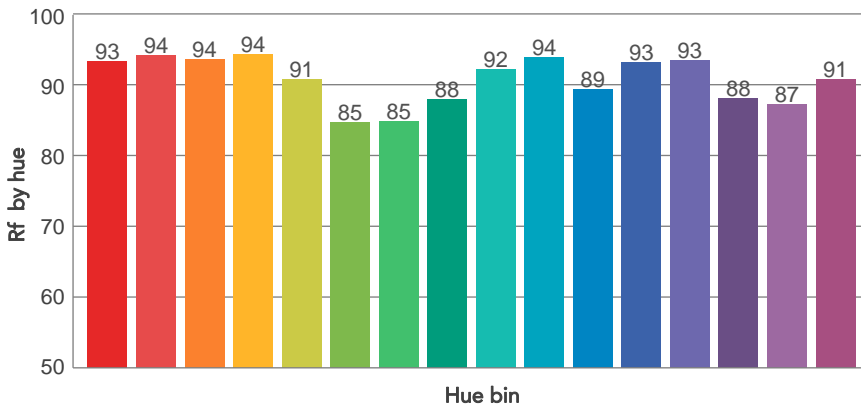
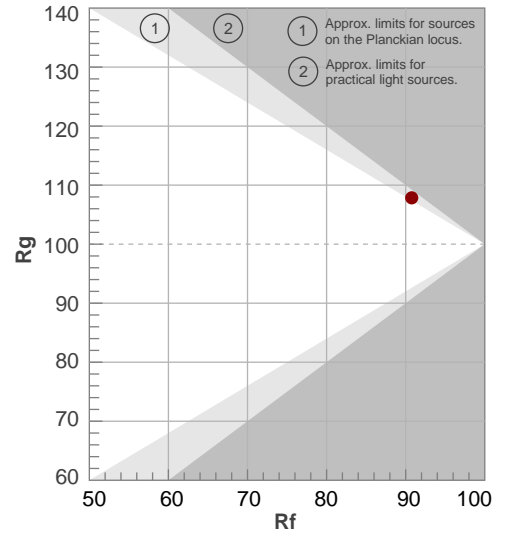
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 5561 K | 91,6 | 90,9 | 90,8 | 107,8 | 94,1 | 82 | 0,331 | 0,337 | -0,0047 |

TM30 DETAILS

Rf 90,8
Fidelity index Rf

Rg 107,8
Gammut index

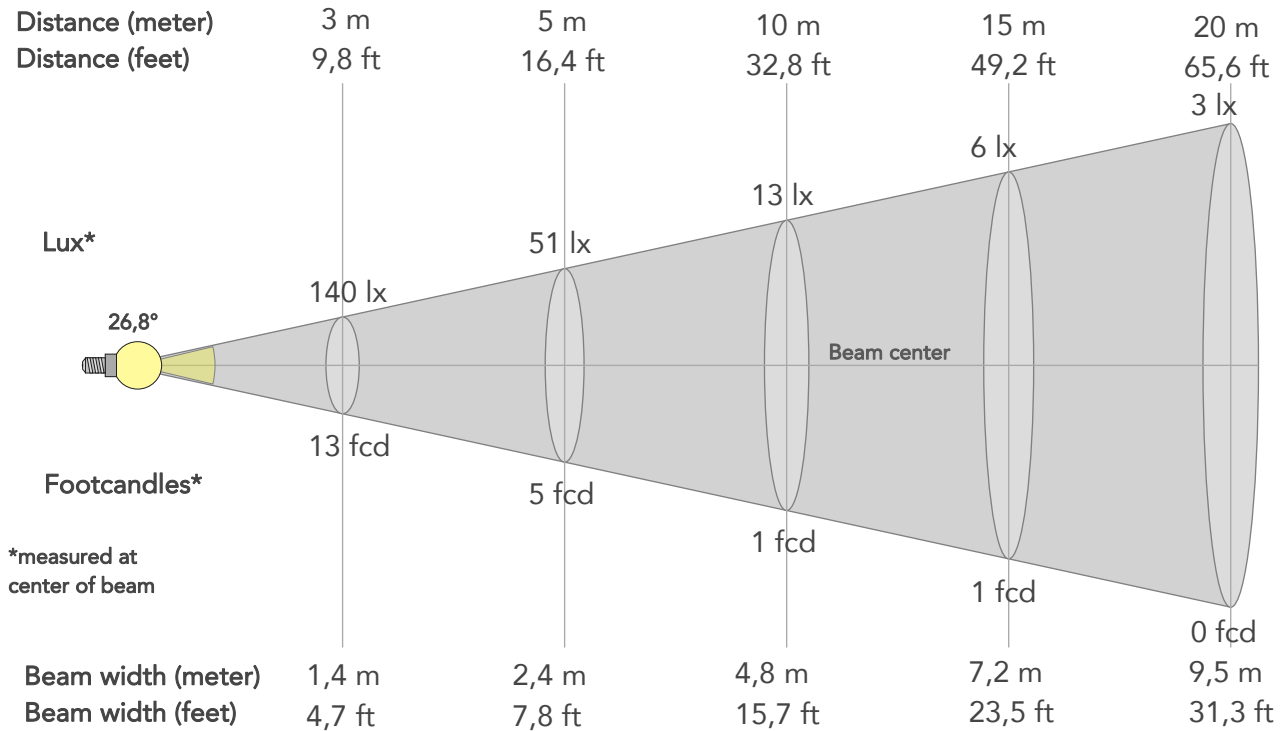
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 93 | 2% | -2% |
| 2 | 94 | 2% | 0% |
| 3 | 94 | 2% | 2% |
| 4 | 94 | 1% | 1% |
| 5 | 91 | 3% | 3% |
| 6 | 85 | 9% | 5% |
| 7 | 85 | 9% | 1% |
| 8 | 88 | 6% | -3% |
| 9 | 92 | 3%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



BEAM DETAILS



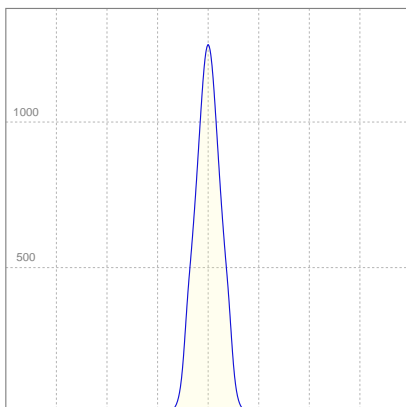
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 26,8° | 47,1° | 56,4° | 99,9% | 99,4% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1264lx | 316lx | 140lx | 79lx | 51lx | 22lx | 13lx | 6lx | 3lx | 2lx | 1lx | 1lx | 1lx |
| Footcand. | 117fcd | 29fcd | 13fcd | 7fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,5m | 1m | 1,4m | 1,9m | 2,4m | 3,6m | 4,8m | 7,2m | 9,5m | 11,9m | 14,3m | 19,1m | 23,9m |
| Beam wid. | 1,6ft | 3,1ft | 4,7ft | 6,3ft | 7,8ft | 11,7ft | 15,7ft | 23,5ft | 31,3ft | 39,1ft | 47ft | 62,6ft | 78,3ft |

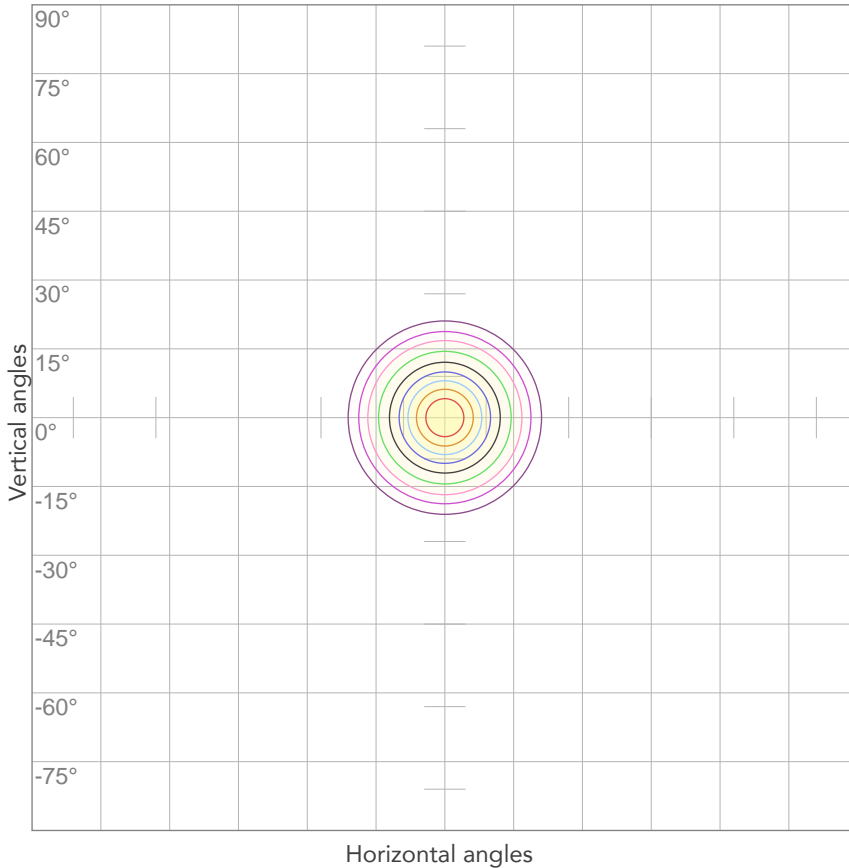
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



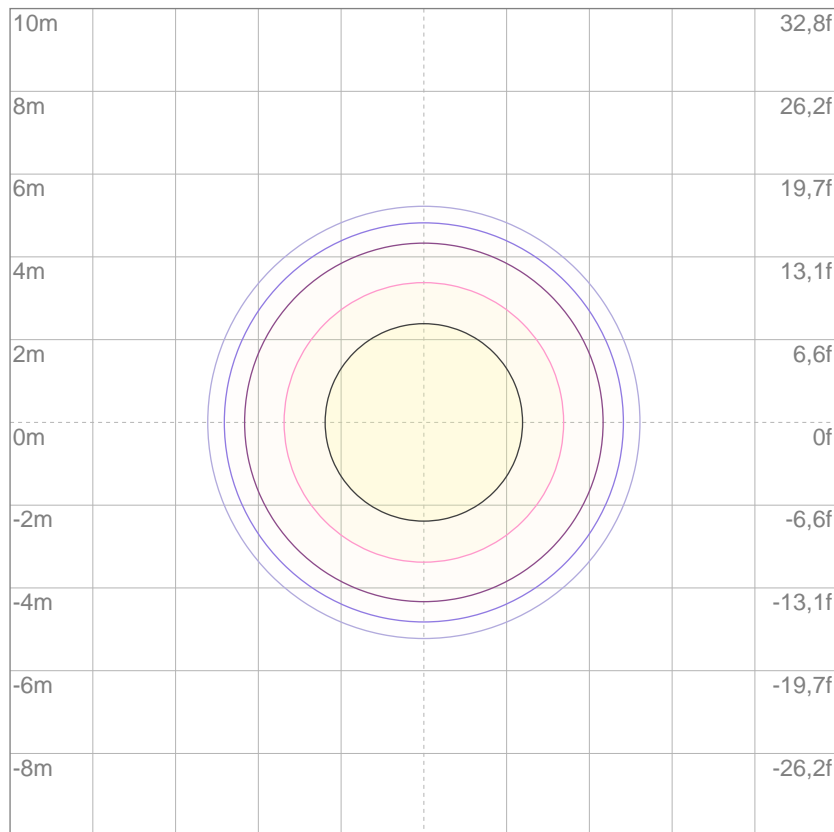
| | |
|-----|---------|
| 10% | 126 cd |
| 20% | 253 cd |
| 30% | 379 cd |
| 40% | 506 cd |
| 50% | 632 cd |
| 60% | 758 cd |
| 70% | 885 cd |
| 80% | 1011 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1264 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 12,6 lx

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



Total lumen output:

271 lm

Peak candela output:

2603 cd

Light quality:

CRI: 91,6

Color temperature:

5523 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

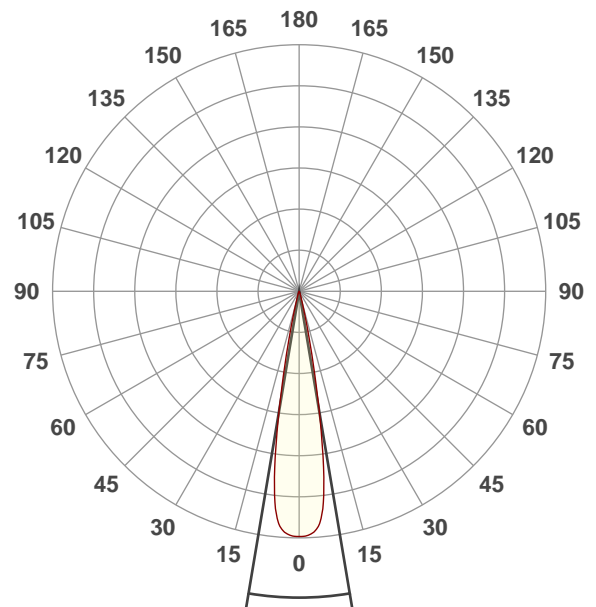
5600K

Operator:

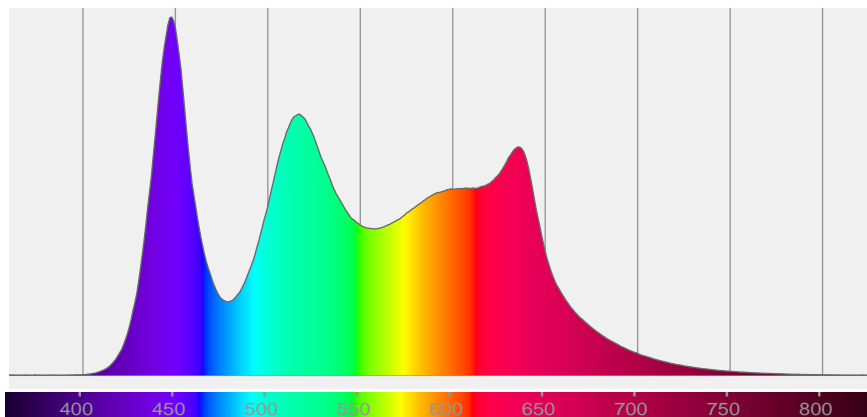
Paolo Carvone

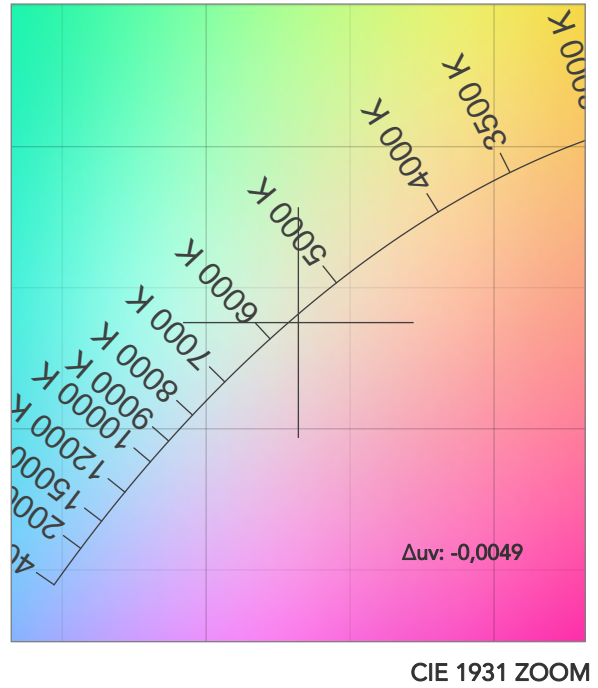
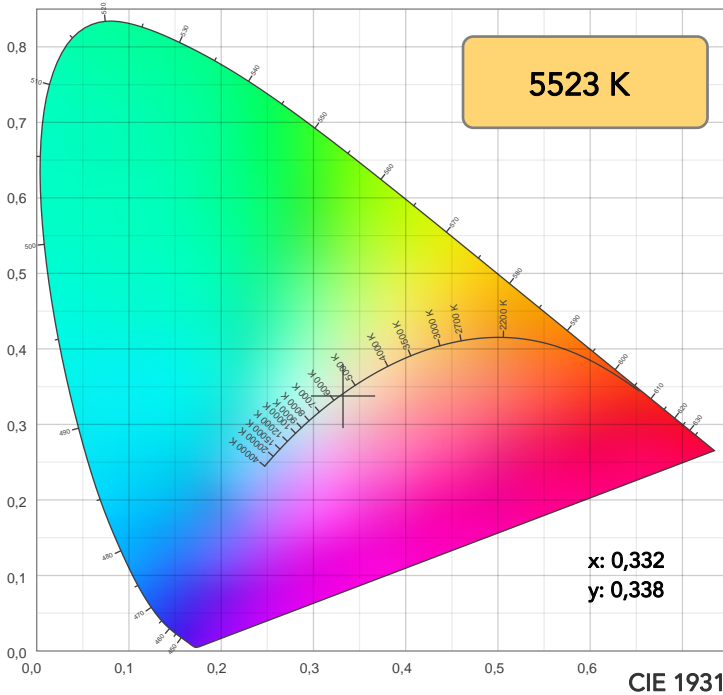
Date and time:

14/01/2021 12:02:40

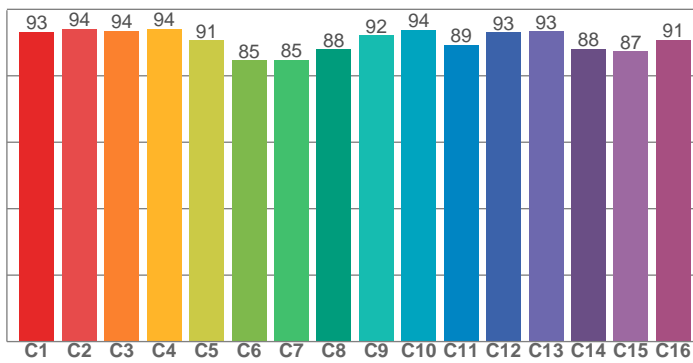


Spectra

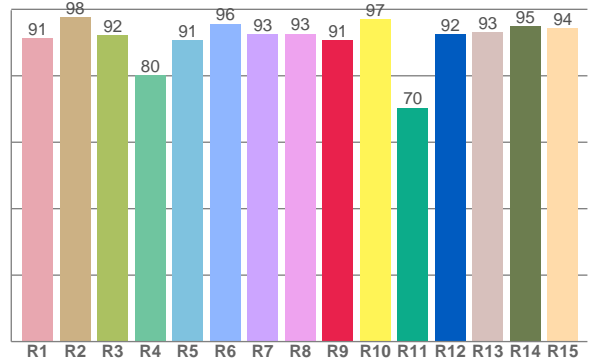




TM30: 90,7



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,2 | 97,7 | 92,2 | 80,1 | 90,7 | 95,7 | 92,5 | 92,6 | 90,7 | 97,1 | 70,4 | 92,4 | 93,1 | 95,0 | 94,2 |

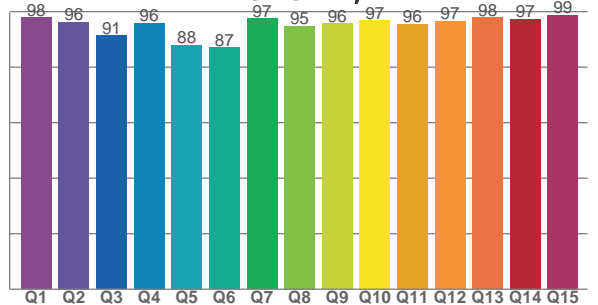
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

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 |
| 5523 K | 91,6 | 90,7 | 90,7 | 107,9 | 94,1 | 82 | 0,332 | 0,338 | -0,0049 |

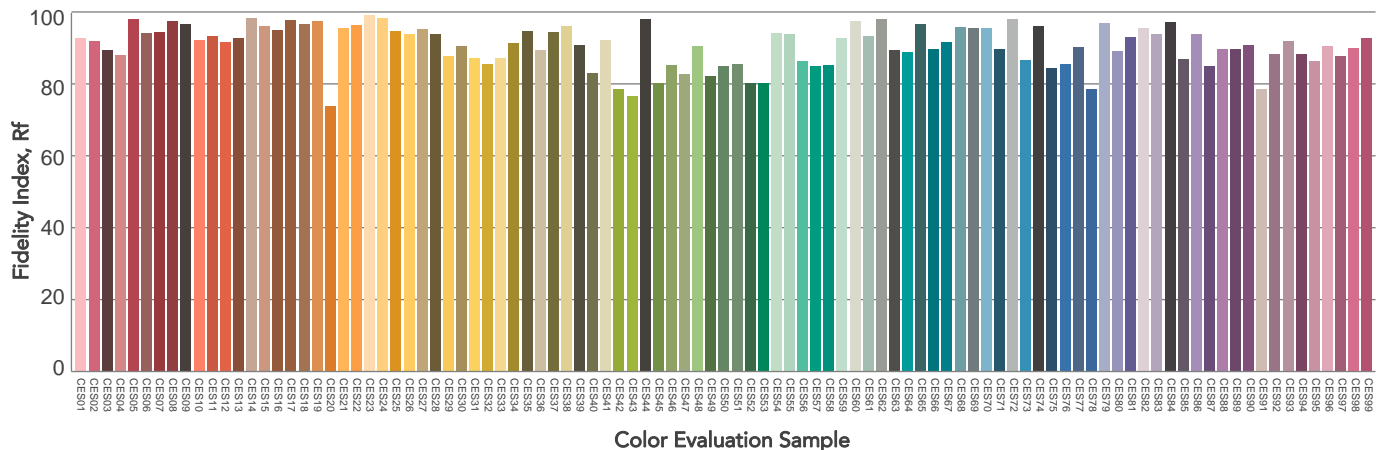
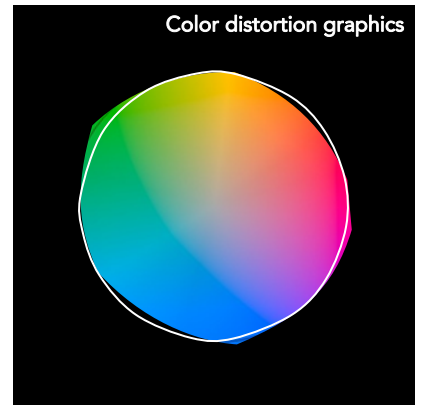
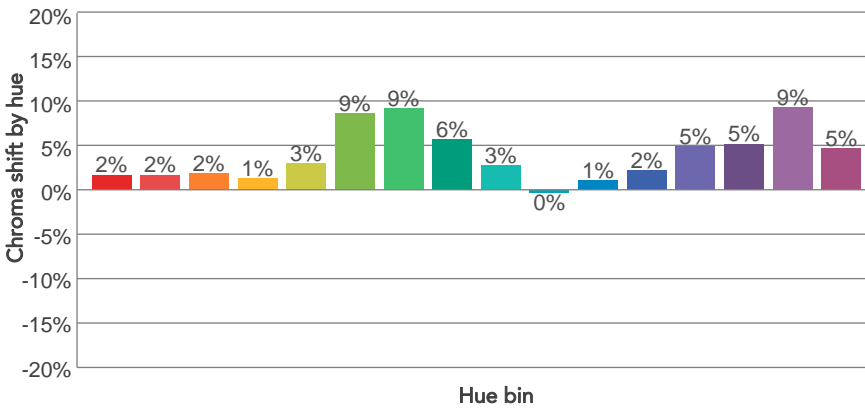
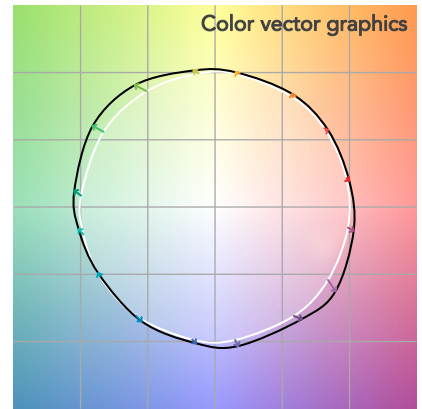
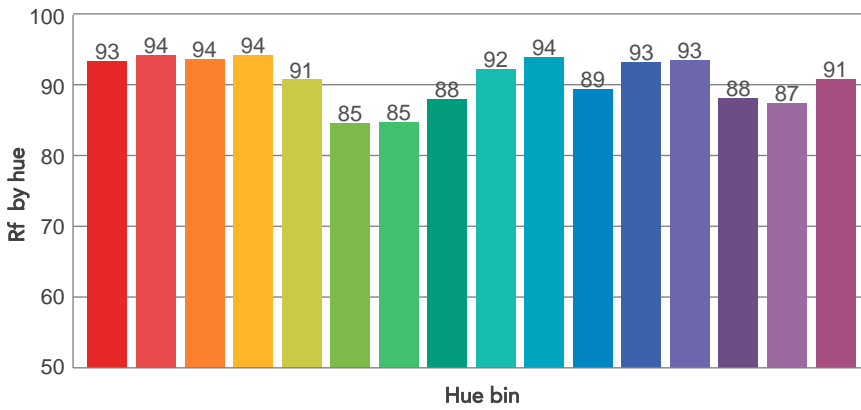
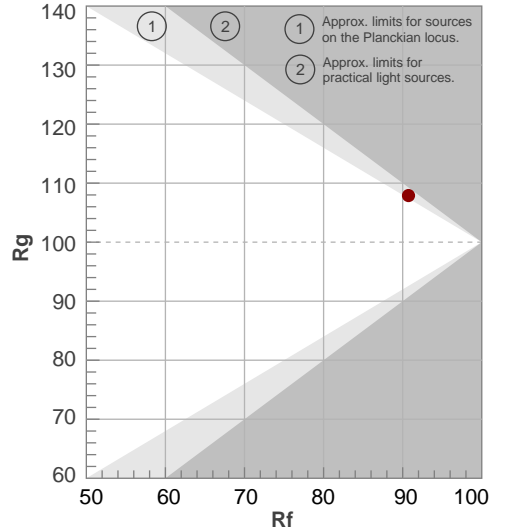
TM30 DETAILS



Rf 90,7
Fidelity index Rf

Rg 107,9
Gammut index

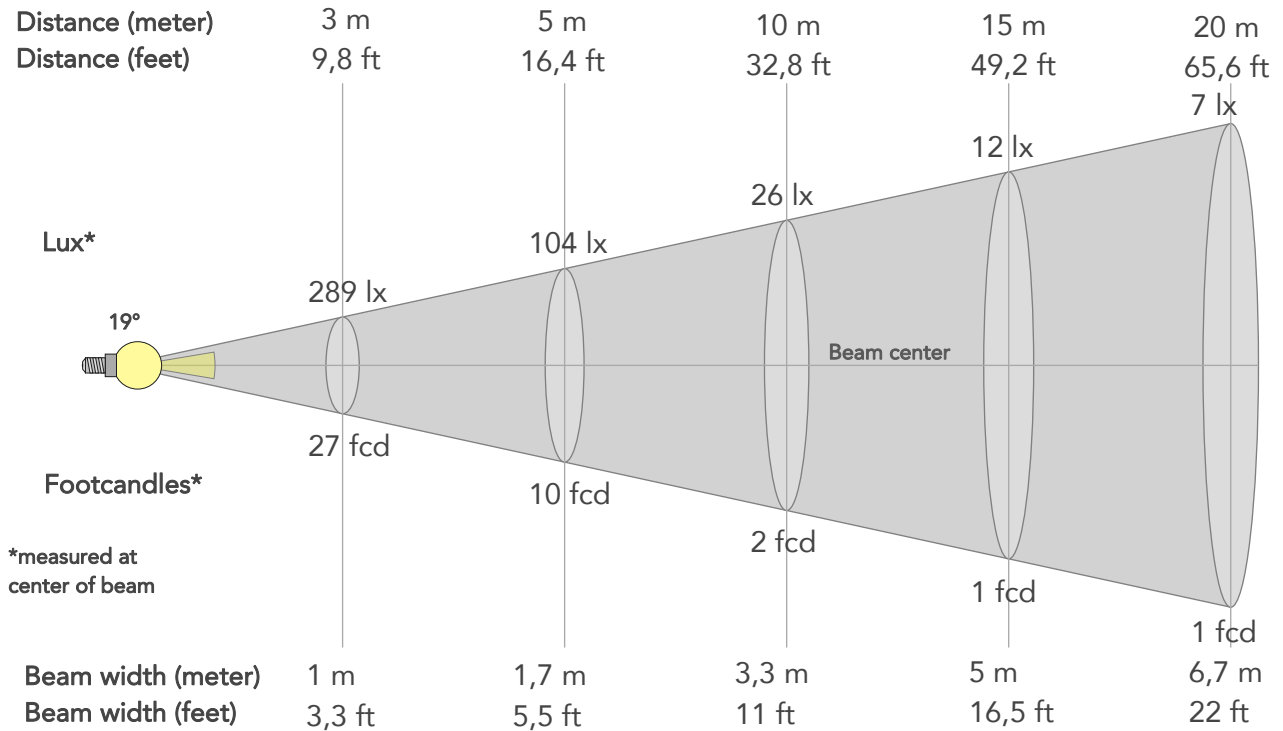
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 93 | 2% | -2% |
| 2 | 94 | 2% | 0% |
| 3 | 94 | 2% | 2% |
| 4 | 94 | 1% | 2% |
| 5 | 91 | 3% | 3% |
| 6 | 85 | 9% | 5% |
| 7 | 85 | 9% | 1% |
| 8 | 88 | 6% | -3% |
| 9 | 92 | 3%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



BEAM DETAILS



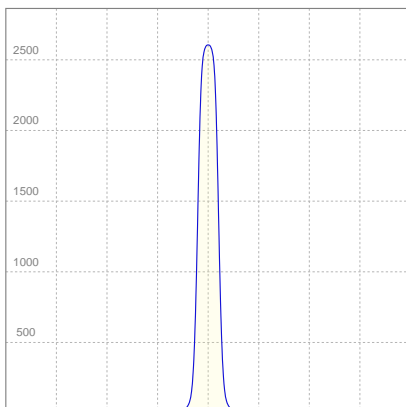
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 19° | 27,3° | 34,6° | 100,0% | 99,8% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 2603lx | 651lx | 289lx | 163lx | 104lx | 46lx | 26lx | 12lx | 7lx | 4lx | 3lx | 2lx | 1lx |
| Footcand. | 242fcd | 60fcd | 27fcd | 15fcd | 10fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,3m | 0,7m | 1m | 1,3m | 1,7m | 2,5m | 3,3m | 5m | 6,7m | 8,4m | 10m | 13,4m | 16,7m |
| Beam wid. | 1,1ft | 2,2ft | 3,3ft | 4,4ft | 5,5ft | 8,2ft | 11ft | 16,5ft | 22ft | 27,5ft | 33ft | 44ft | 54,9ft |

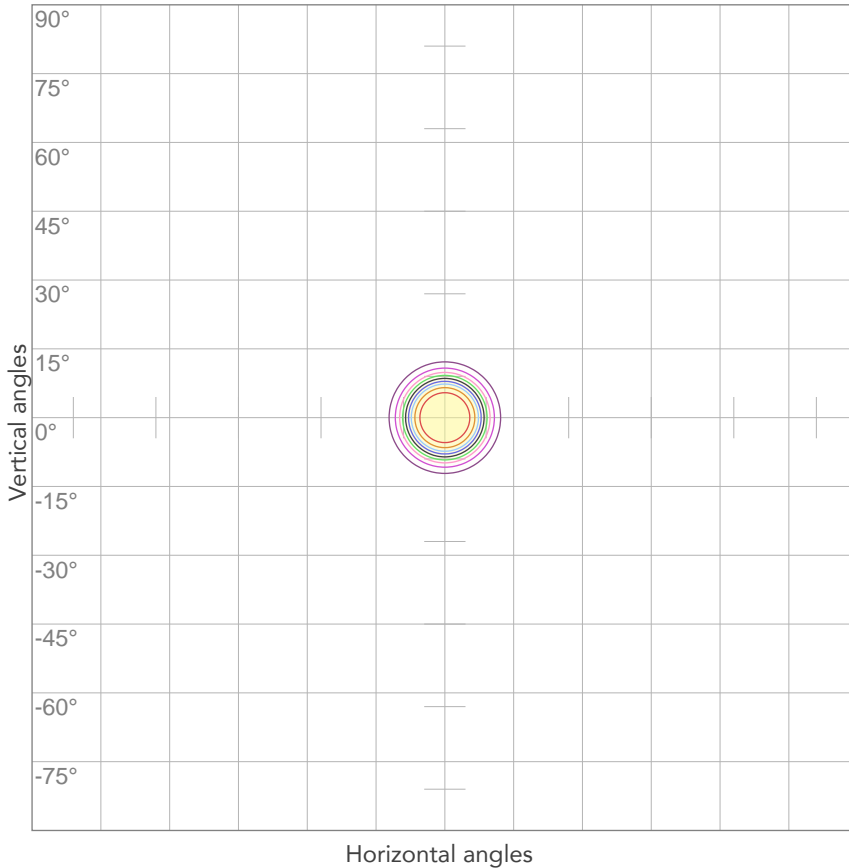
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



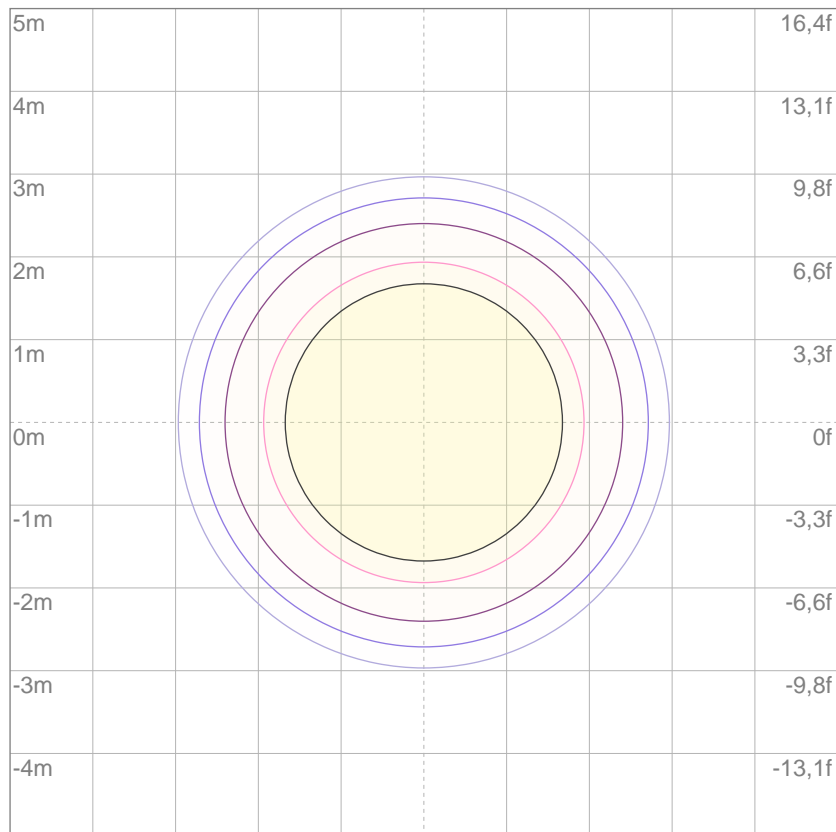
| | |
|-----|---------|
| 10% | 260 cd |
| 20% | 521 cd |
| 30% | 781 cd |
| 40% | 1041 cd |
| 50% | 1302 cd |
| 60% | 1562 cd |
| 70% | 1822 cd |
| 80% | 2082 cd |

Conditions:

Number of c-planes: 2

Candela at center: 2603 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 26,0 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

306 lm

Peak candela output:

1282 cd

Light quality:

CRI: 91,3

Color temperature:

6009 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Max Zoom

Target:

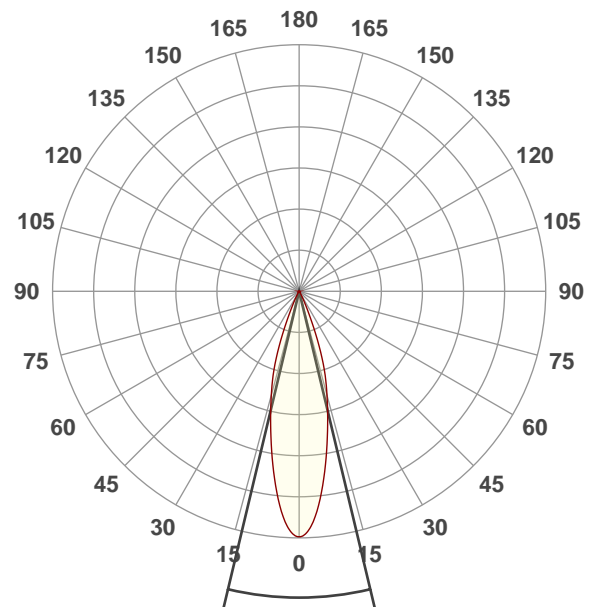
6000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:19:15

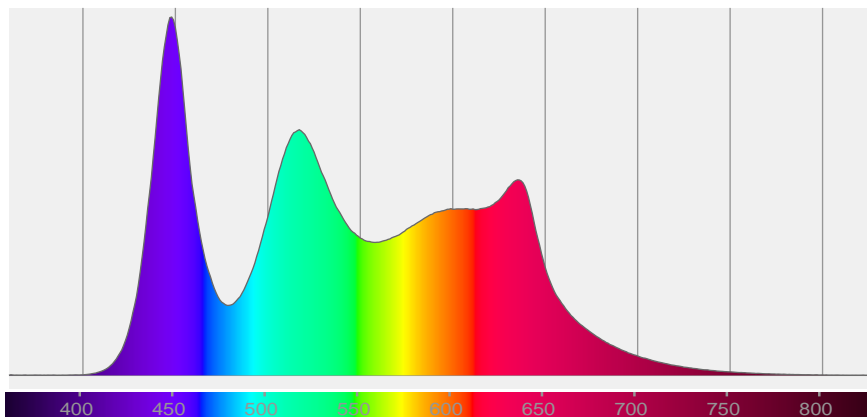


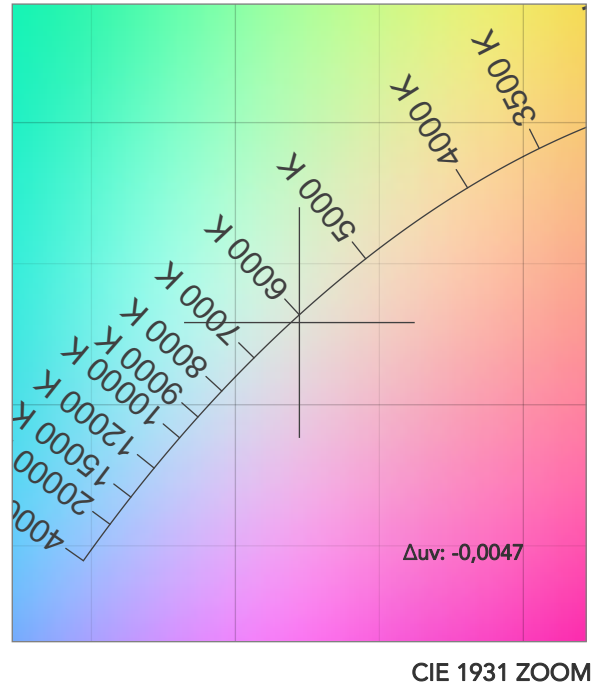
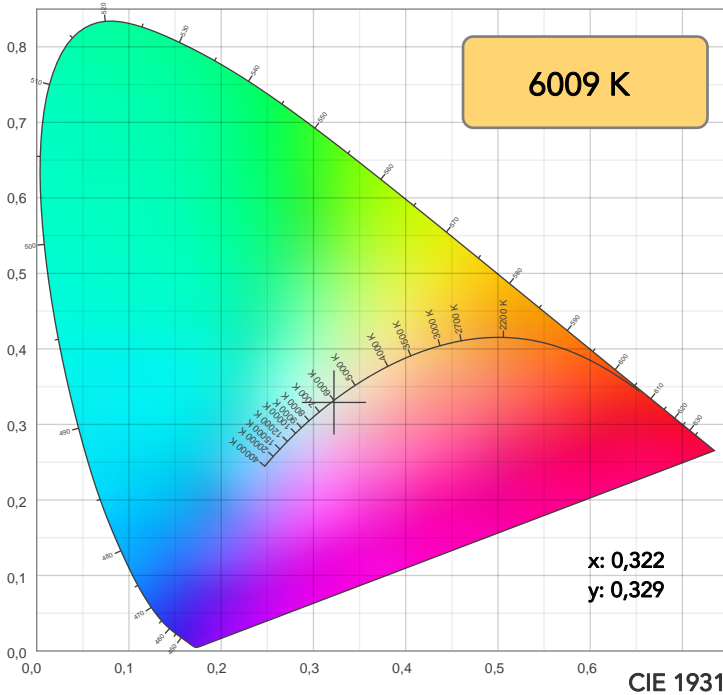
Beam angle 50%: 26,9°

Field angle 10%: 47°

Cut off angle 2.5%: 56,2°

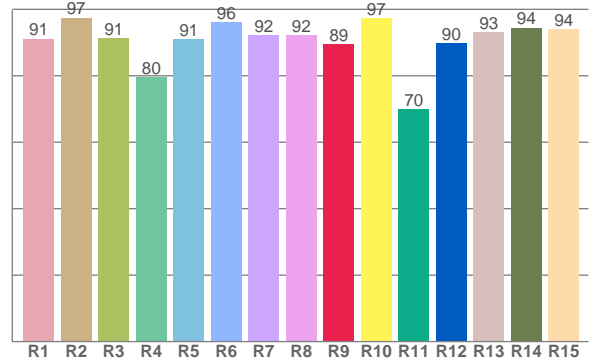
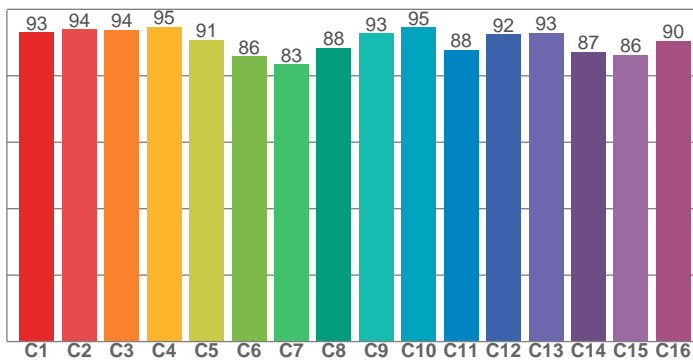
Spectra





TM30: 90,6

CRI: 91,3 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,1 | 97,4 | 91,2 | 79,6 | 91,0 | 96,1 | 92,1 | 92,1 | 89,5 | 97,3 | 69,9 | 89,8 | 93,2 | 94,4 | 94,0 |

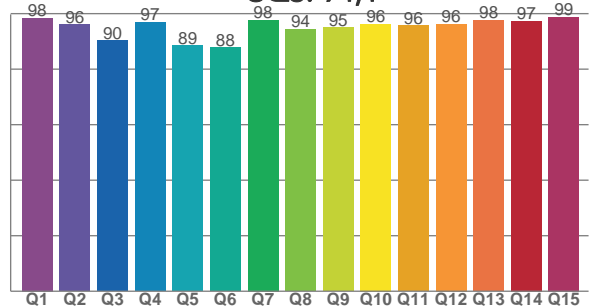
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 94,1



COLOR PARAMETERS

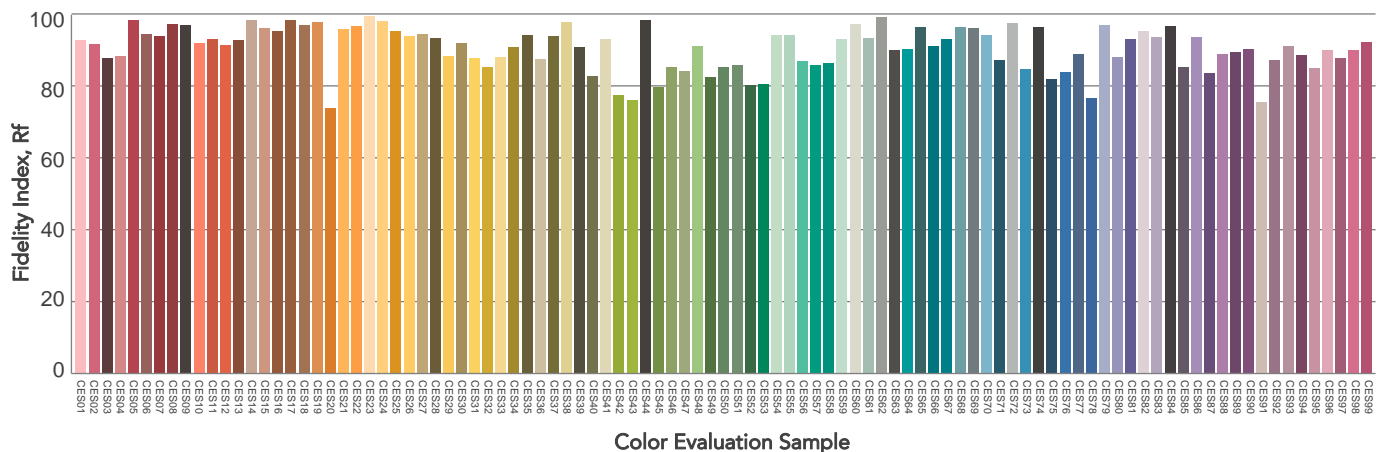
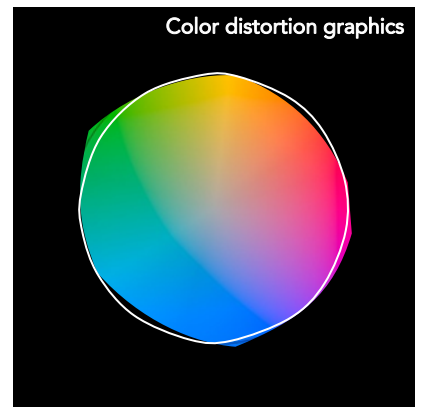
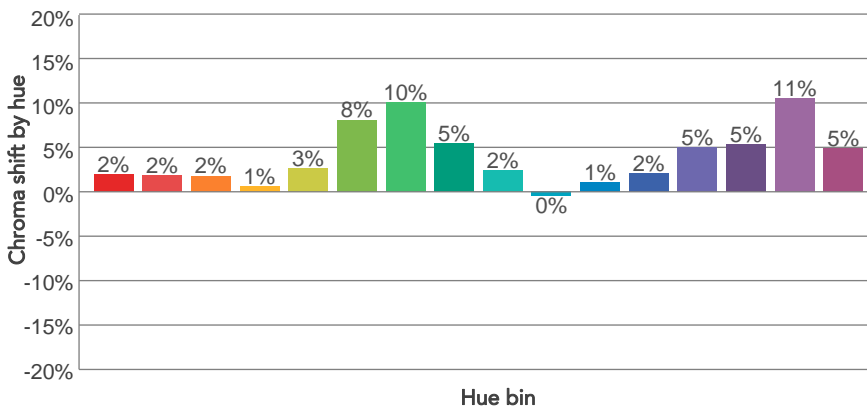
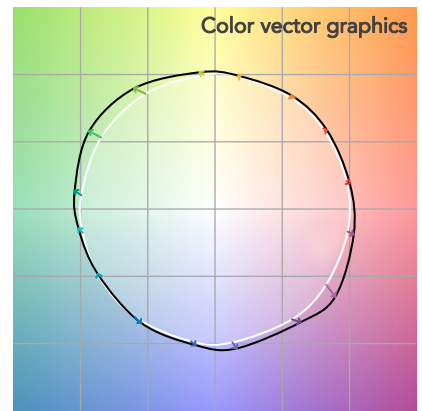
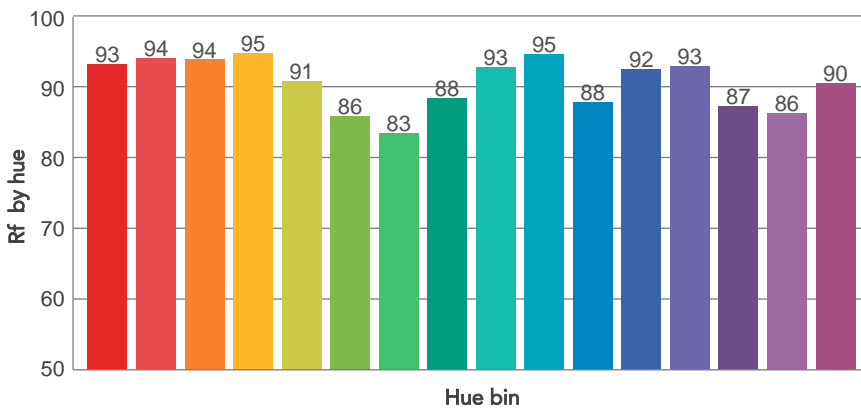
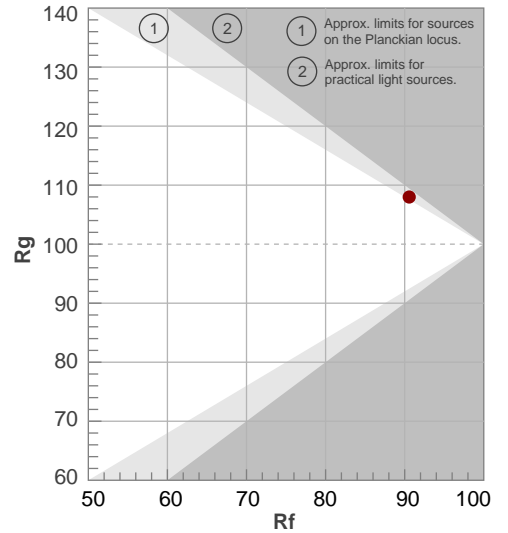
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|-----------------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

TM30 DETAILS

Rf 90,6
Fidelity index Rf

Rg 108,0
Gammut index

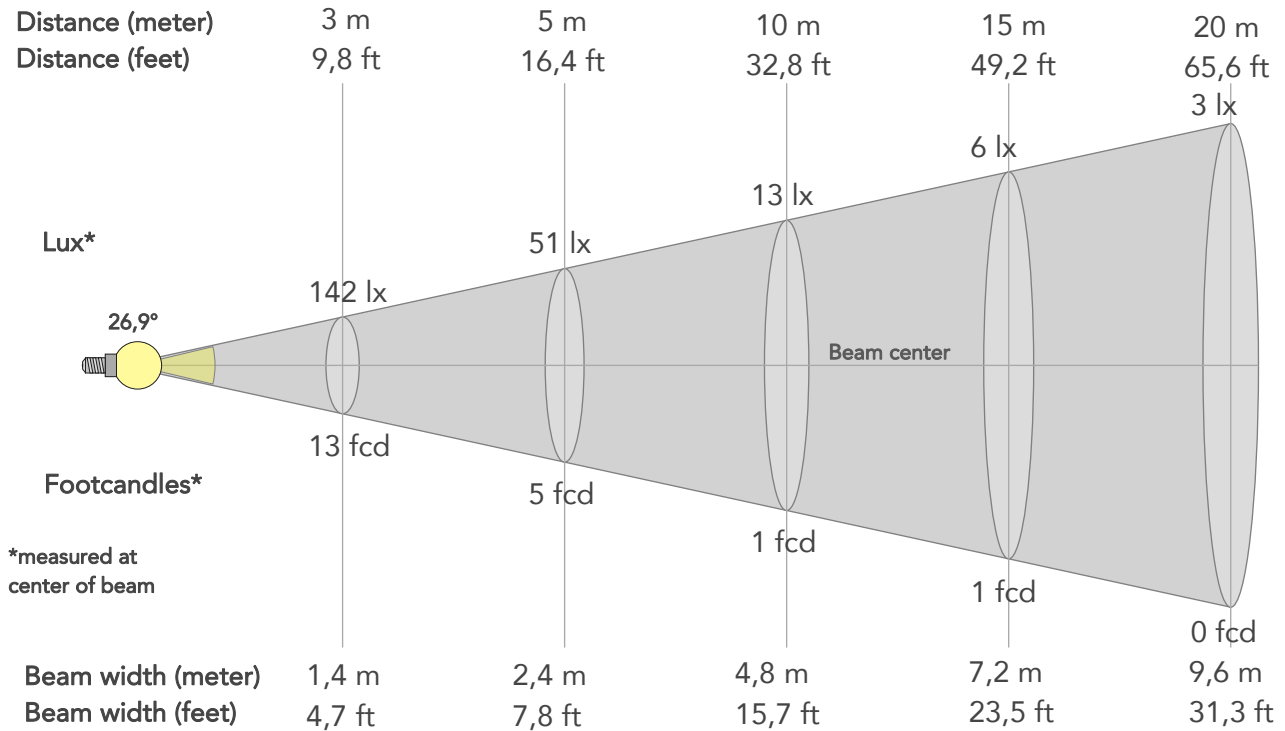
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 93 | 2% | -2% |
| 2 | 94 | 2% | 0% |
| 3 | 94 | 2% | 2% |
| 4 | 95 | 1% | 1% |
| 5 | 91 | 3% | 3% |
| 6 | 86 | 8% | 5% |
| 7 | 83 | 10% | 1% |
| 8 | 88 | 5% | -2% |
| 9 | 93 |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



BEAM DETAILS



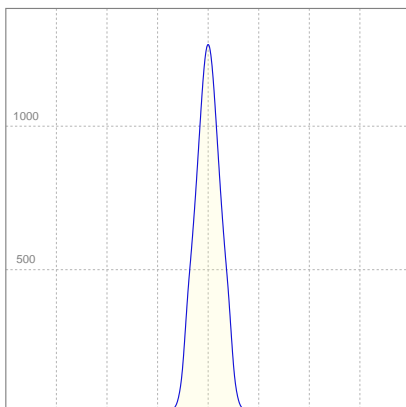
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 26,9° | 47° | 56,2° | 99,9% | 99,4% |



BEAM INTENSITIES AND WIDTHS

| | | | | | | | | | | | | | |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1282lx | 321lx | 142lx | 80lx | 51lx | 23lx | 13lx | 6lx | 3lx | 2lx | 1lx | 1lx | 1lx |
| Footcand. | 119fcd | 30fcd | 13fcd | 7fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,5m | 1m | 1,4m | 1,9m | 2,4m | 3,6m | 4,8m | 7,2m | 9,6m | 11,9m | 14,3m | 19,1m | 23,9m |
| Beam wid. | 1,6ft | 3,2ft | 4,7ft | 6,3ft | 7,8ft | 11,7ft | 15,7ft | 23,5ft | 31,3ft | 39,2ft | 47ft | 62,7ft | 78,3ft |

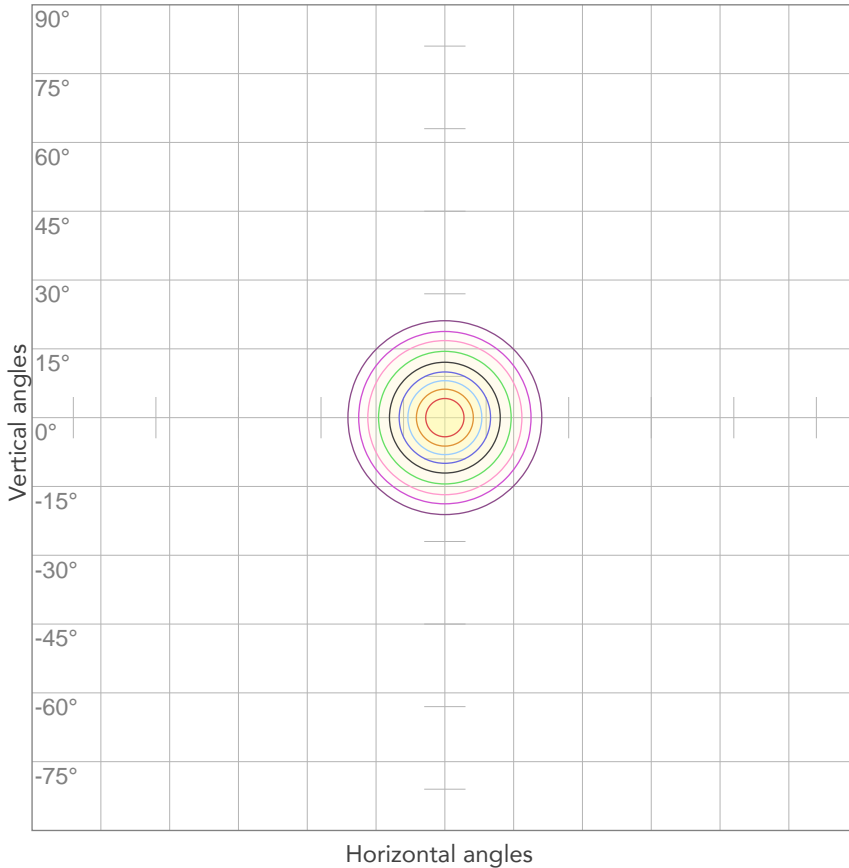
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



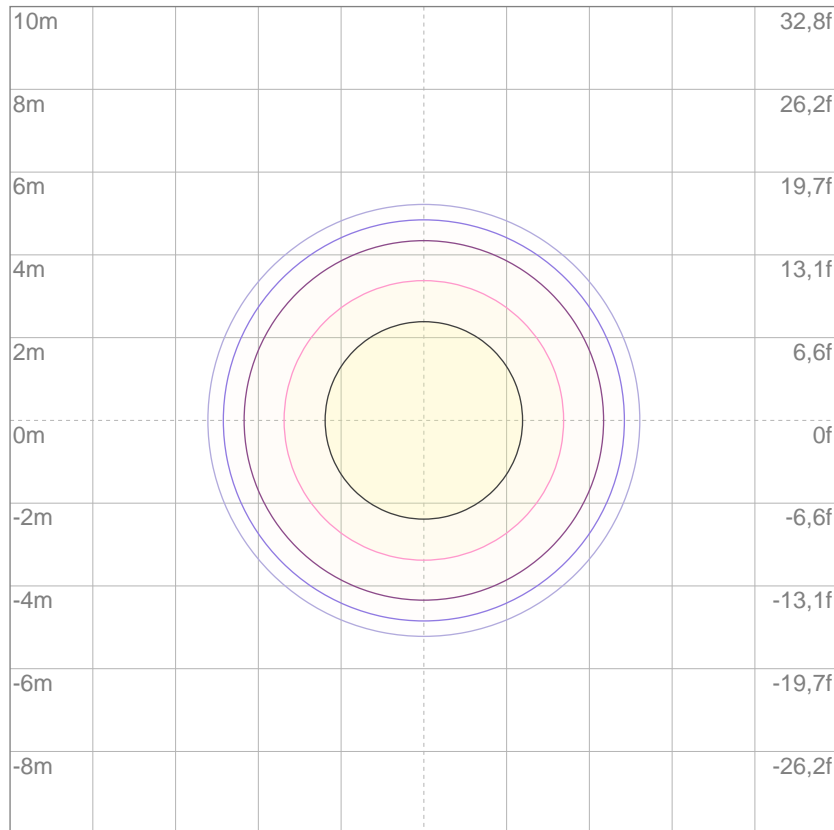
| | |
|-----|---------|
| 10% | 128 cd |
| 20% | 256 cd |
| 30% | 385 cd |
| 40% | 513 cd |
| 50% | 641 cd |
| 60% | 769 cd |
| 70% | 897 cd |
| 80% | 1026 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1282 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 12,8 lx

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



Total lumen output:

275 lm

Peak candela output:

2652 cd

Light quality:

CRI: 91,3

Color temperature:

5962 K

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Wash15-30 Min Zoom

Target:

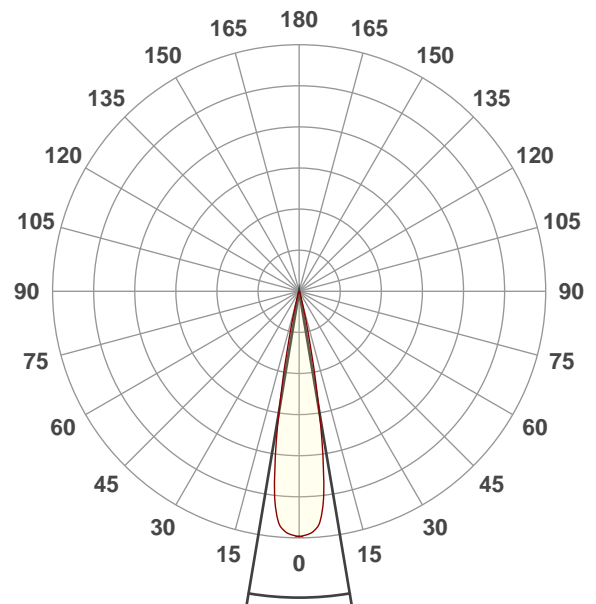
6000K

Operator:

Paolo Carvone

Date and time:

14/01/2021 12:04:14

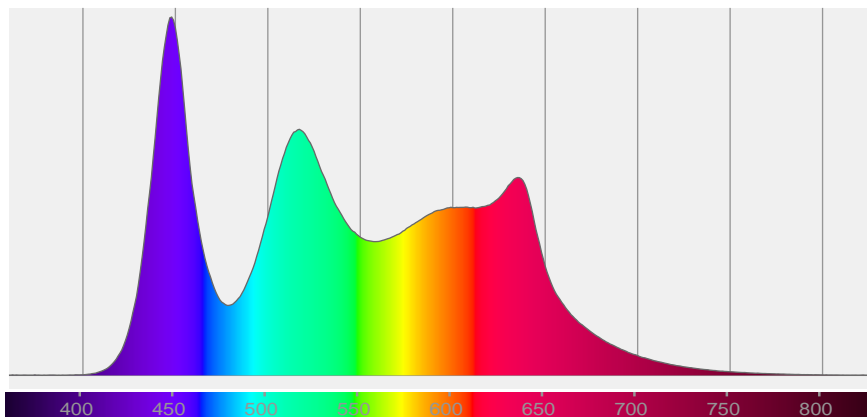


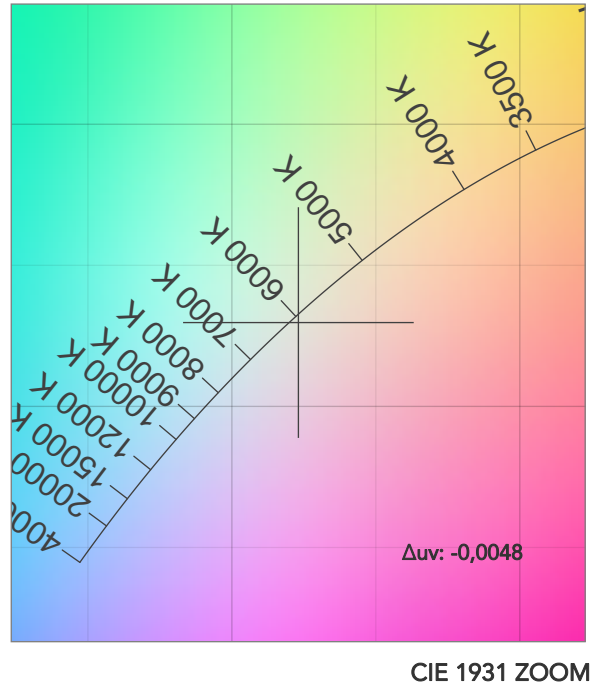
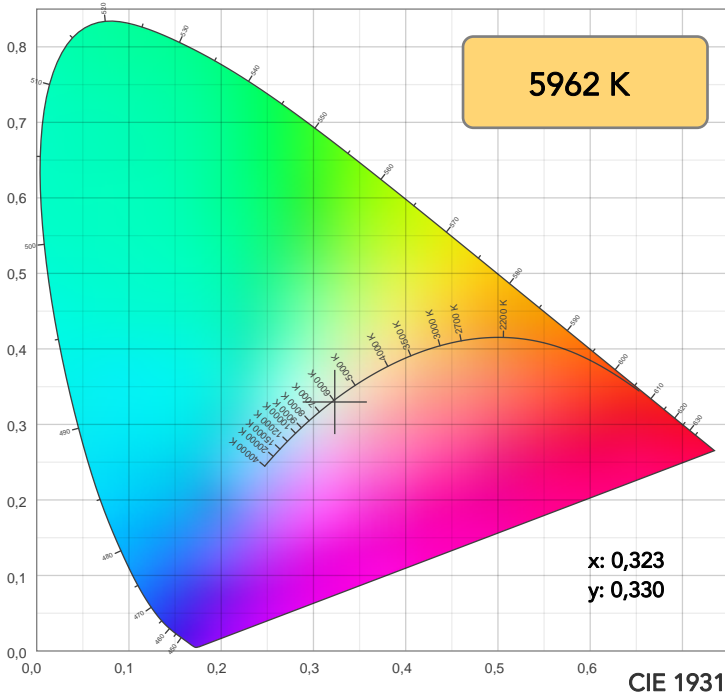
Beam angle 50%: 19°

Field angle 10%: 27,2°

Cut off angle 2.5%: 34,4°

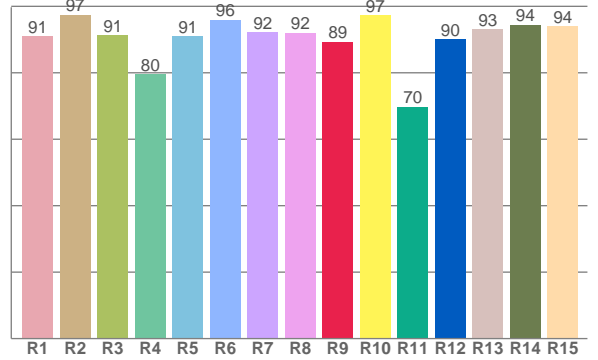
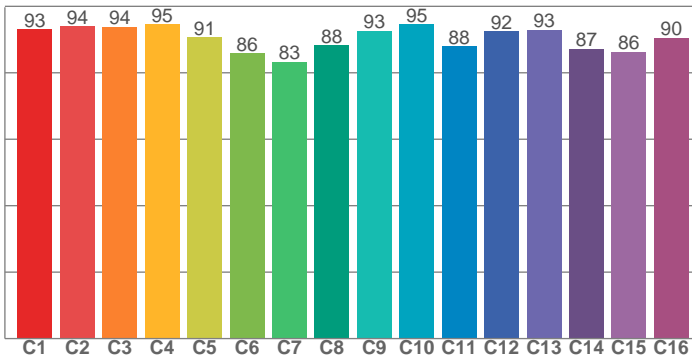
Spectra





TM30: 90,5

CRI: 91,3 (R1-R8)



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

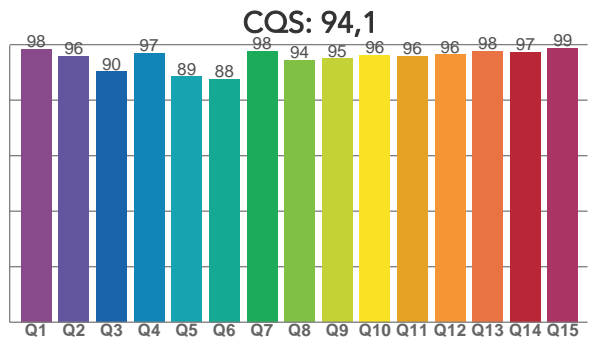
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,0 | 97,4 | 91,2 | 79,6 | 90,9 | 96,0 | 92,1 | 92,1 | 89,3 | 97,2 | 69,8 | 90,0 | 93,1 | 94,4 | 93,9 |

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

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

CQS Q values

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



COLOR PARAMETERS

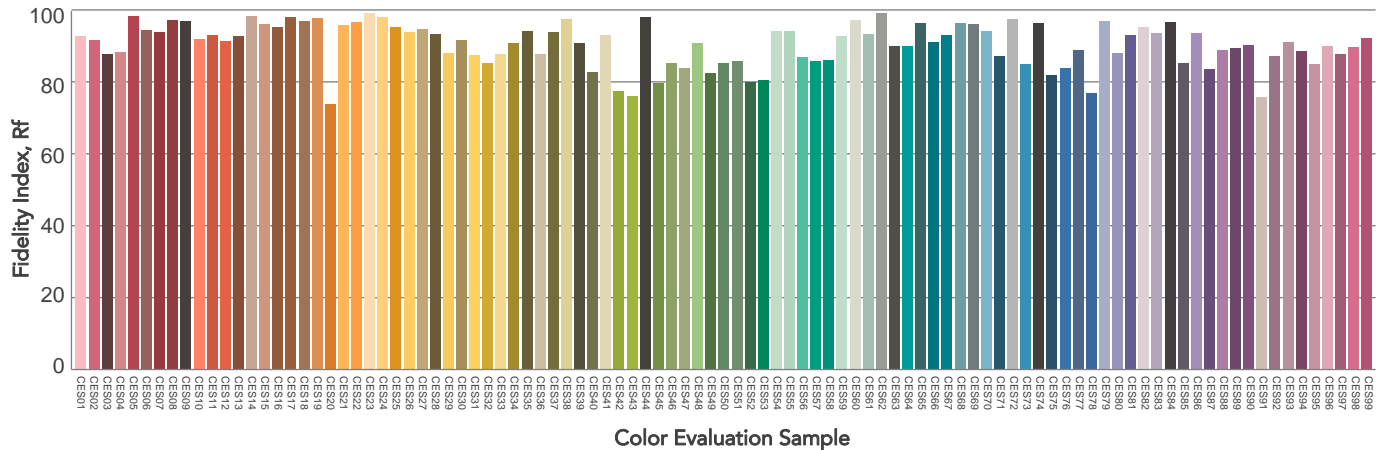
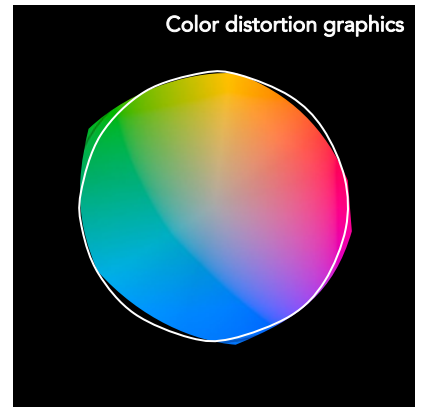
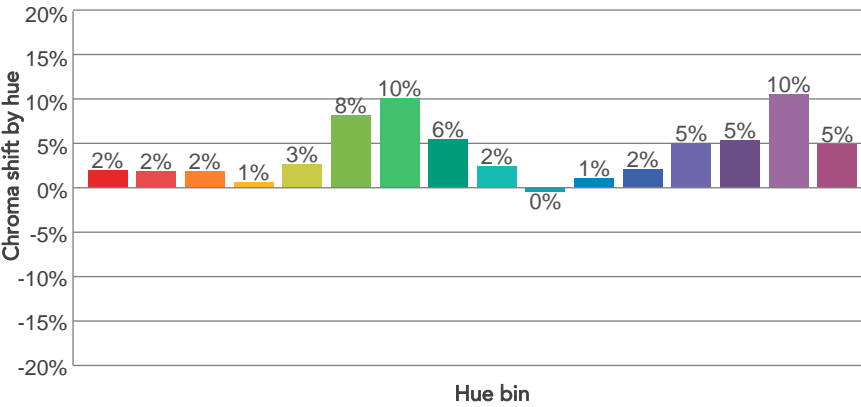
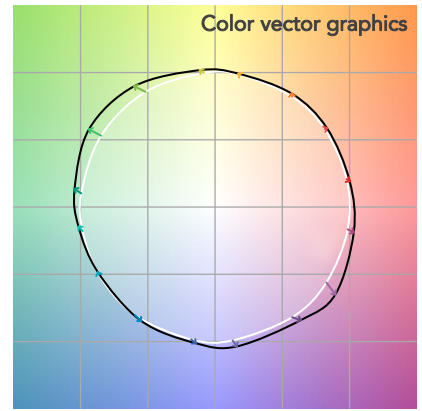
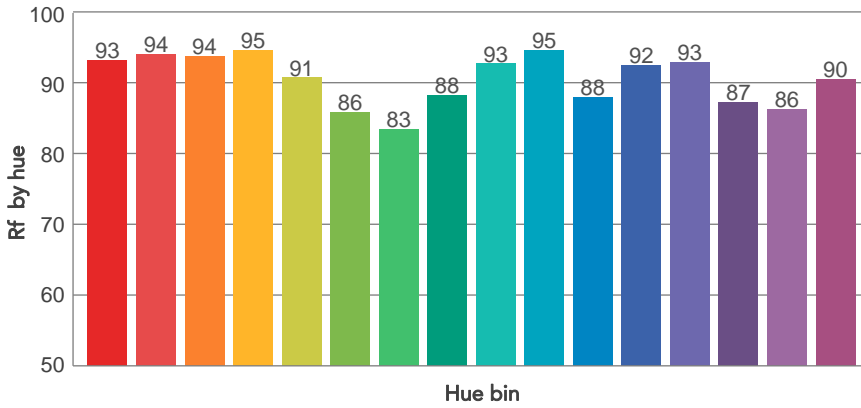
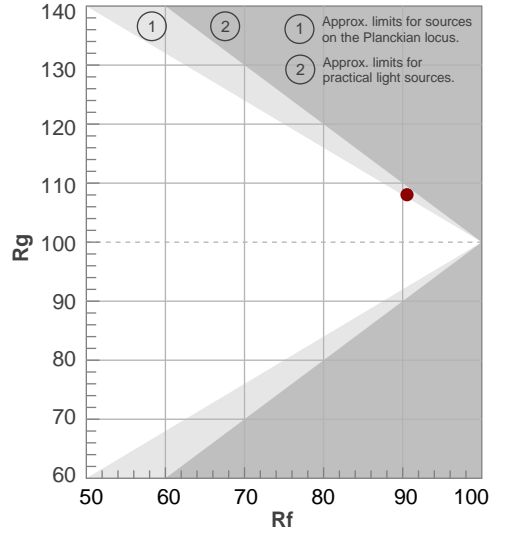
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|-----------------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

TM30 DETAILS

Rf 90,5
Fidelity index Rf

Rg 108,0
Gammut index

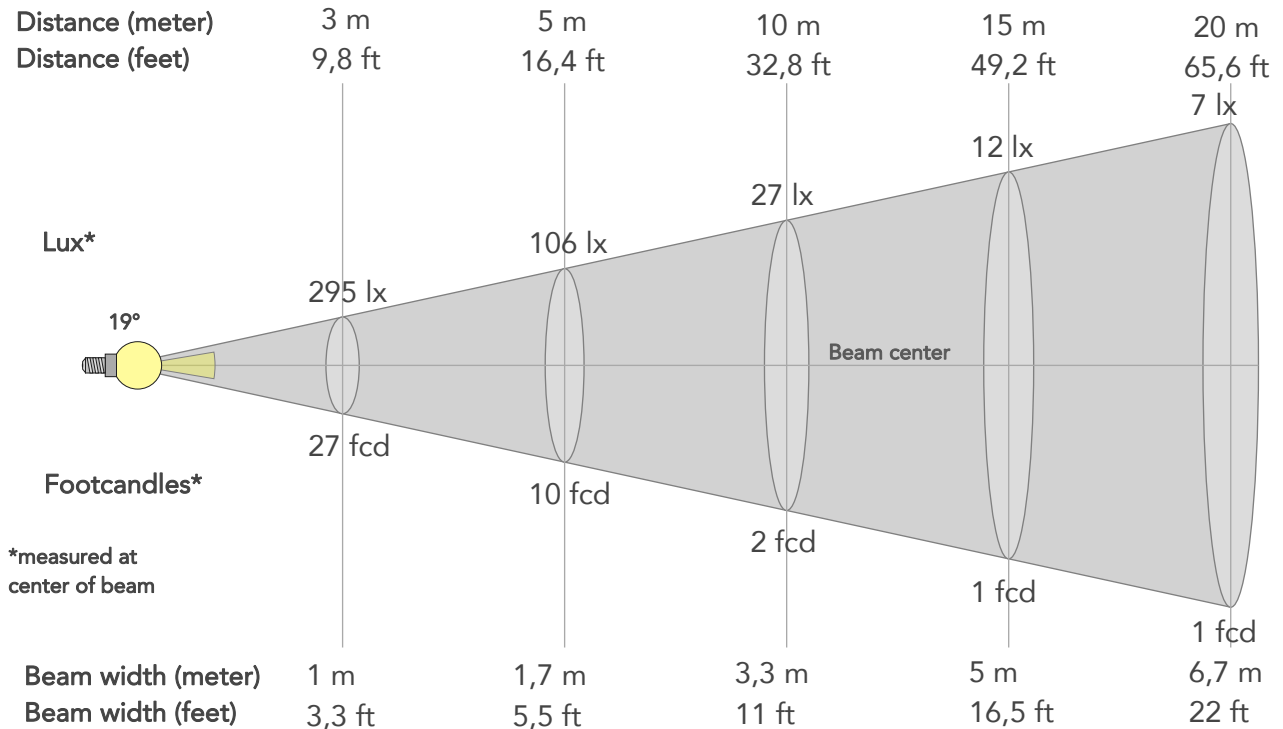
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 93 | 2% | -2% |
| 2 | 94 | 2% | 0% |
| 3 | 94 | 2% | 2% |
| 4 | 95 | 1% | 1% |
| 5 | 91 | 3% | 3% |
| 6 | 86 | 8% | 5% |
| 7 | 83 | 10% | 1% |
| 8 | 88 | 6% | -2% |
| 9 | 93 |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



BEAM DETAILS



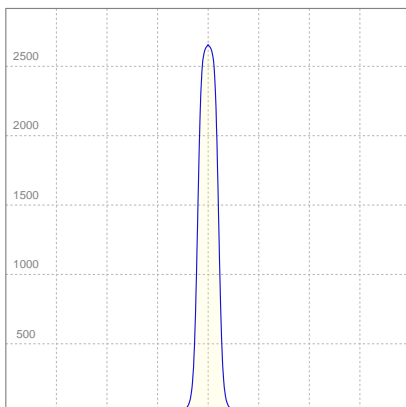
| | | | | |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
| 19° | 27,2° | 34,4° | 100,0% | 99,8% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 2652lx | 663lx | 295lx | 166lx | 106lx | 47lx | 27lx | 12lx | 7lx | 4lx | 3lx | 2lx | 1lx |
| Footcand. | 246fcd | 62fcd | 27fcd | 15fcd | 10fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,3m | 0,7m | 1m | 1,3m | 1,7m | 2,5m | 3,3m | 5m | 6,7m | 8,4m | 10m | 13,4m | 16,7m |
| Beam wid. | 1,1ft | 2,2ft | 3,3ft | 4,4ft | 5,5ft | 8,2ft | 11ft | 16,5ft | 22ft | 27,5ft | 33ft | 43,9ft | 54,9ft |

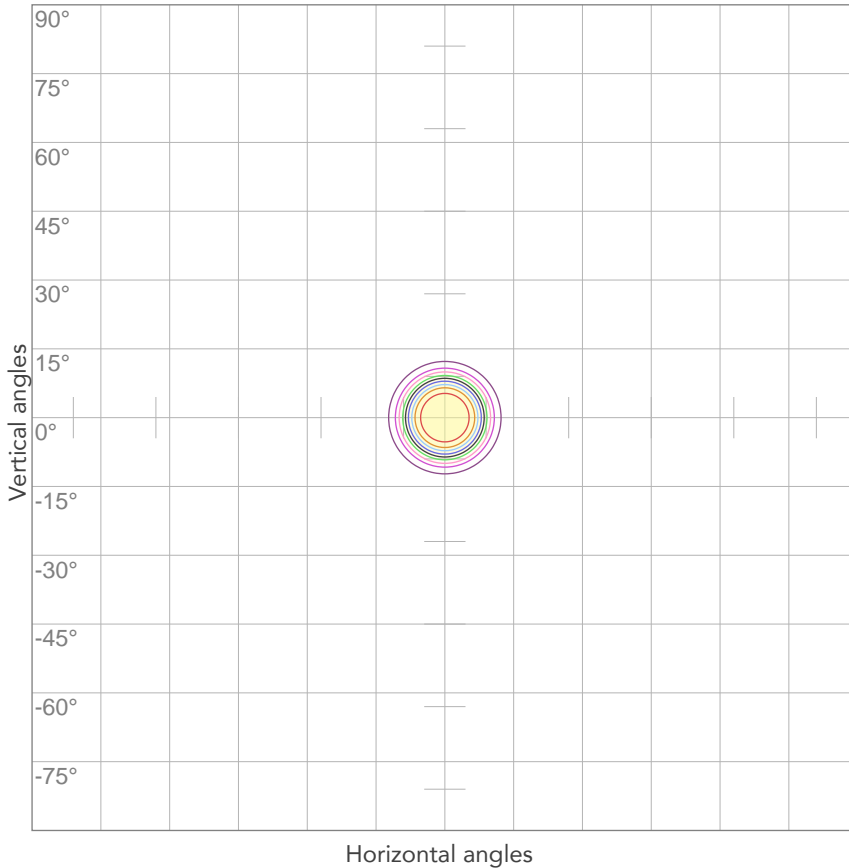
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

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

ISO CANDELA DIAGRAM



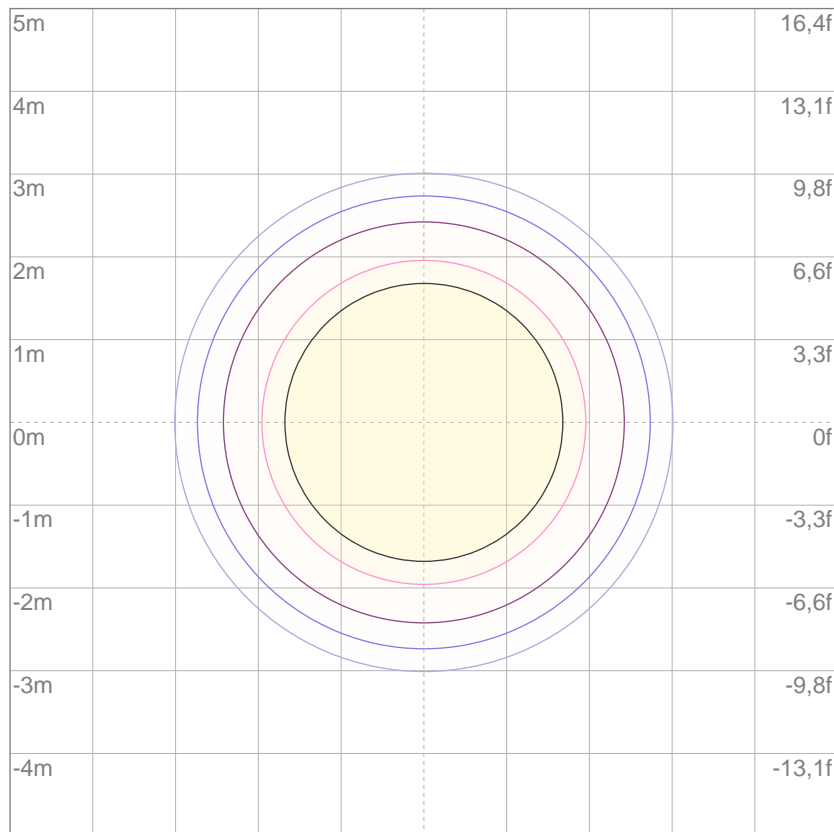
| | |
|-----|---------|
| 10% | 265 cd |
| 20% | 530 cd |
| 30% | 796 cd |
| 40% | 1061 cd |
| 50% | 1326 cd |
| 60% | 1591 cd |
| 70% | 1856 cd |
| 80% | 2122 cd |

Conditions:

Number of c-planes: 2

Candela at center: 2652 cd

ISO LUX DIAGRAM



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

Conditions:

Number of c-planes: 2

Lux at center: 26,5 lx

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

Mounting height: 10 meters (33 feet)