

Photometric Test Report



ECLPANELTWC

740W Tunable White and colourful LED soft
light and lighting effects
MD filter + 30° and 60° egg crate
(driven @ 430W)

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TESTING PROCESS

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

Prolights measurement instrument

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

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

Prolights measurement software

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

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



Total lumen output:

4363 lm

Peak candela output:

9349 cd

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 30° Egg Crate

Target:

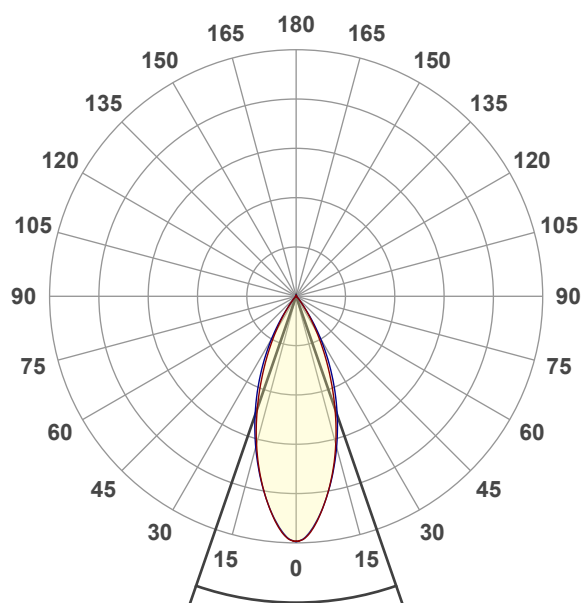
Full On

Operator:

Paolo Carvone

Date and time:

17/03/2023 12:56:48

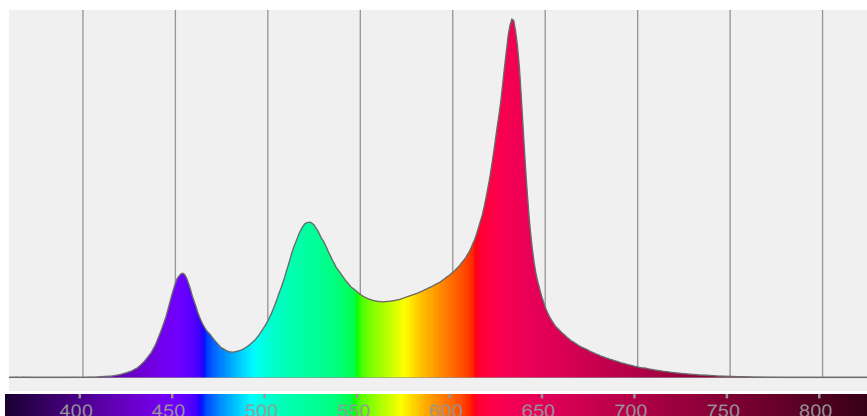


Beam angle 50%: 38,1°

Field angle 10%: 67,5°

Cut off angle 2.5%: 80,2°

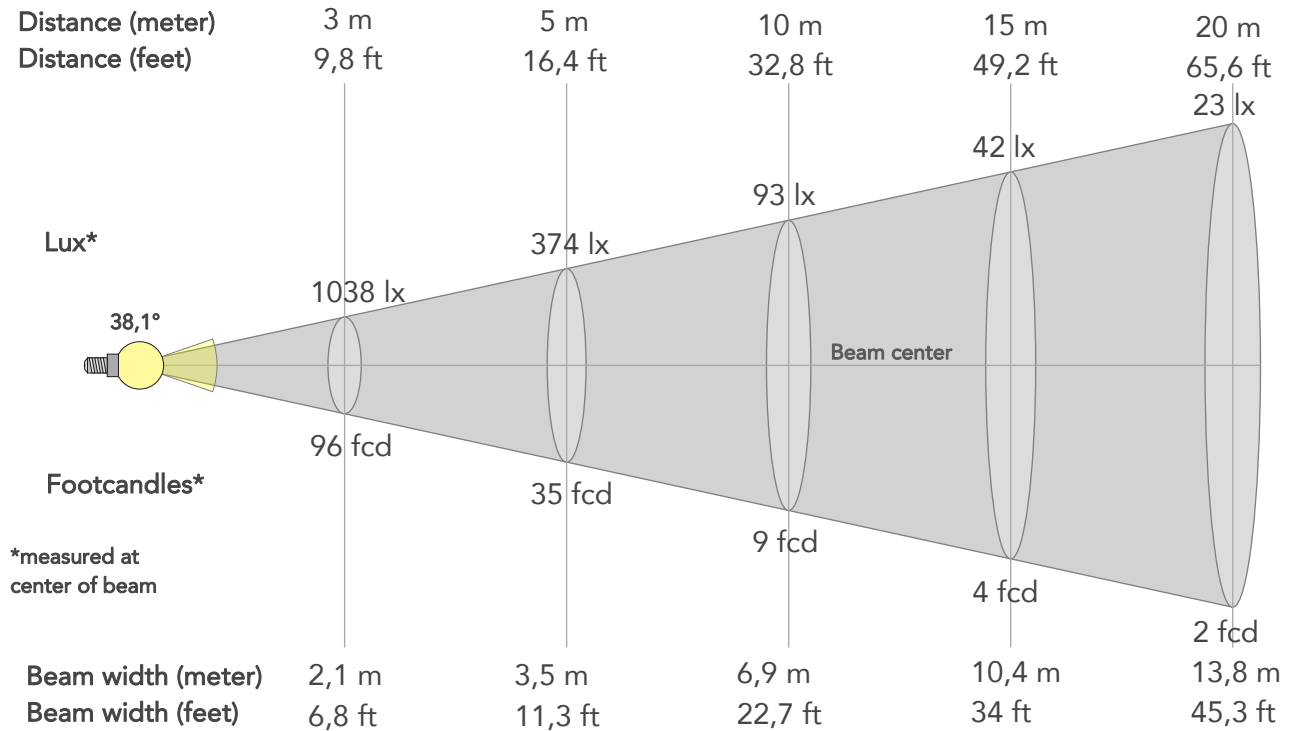
Spectra



BEAM DETAILS



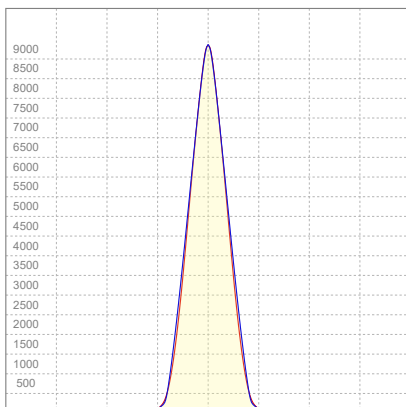
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 38,1° | 67,5° | 80,2° | 99,5% | 98,6% |



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 | 9345lx | 2336lx | 1038lx | 584lx | 374lx | 166lx | 93lx | 42lx | 23lx | 15lx | 10lx | 6lx | 4lx |
| Footcand. | 868fcd | 217fcd | 96fcd | 54fcd | 35fcd | 15fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,7m | 1,4m | 2,1m | 2,8m | 3,5m | 5,2m | 6,9m | 10,4m | 13,8m | 17,3m | 20,7m | 27,6m | 34,6m |
| Beam wid. | 2,3ft | 4,6ft | 6,8ft | 9,1ft | 11,3ft | 17ft | 22,7ft | 34ft | 45,3ft | 56,7ft | 68ft | 90,7ft | 113,4ft |

LINEAR DISTRIBUTION DIAGRAM

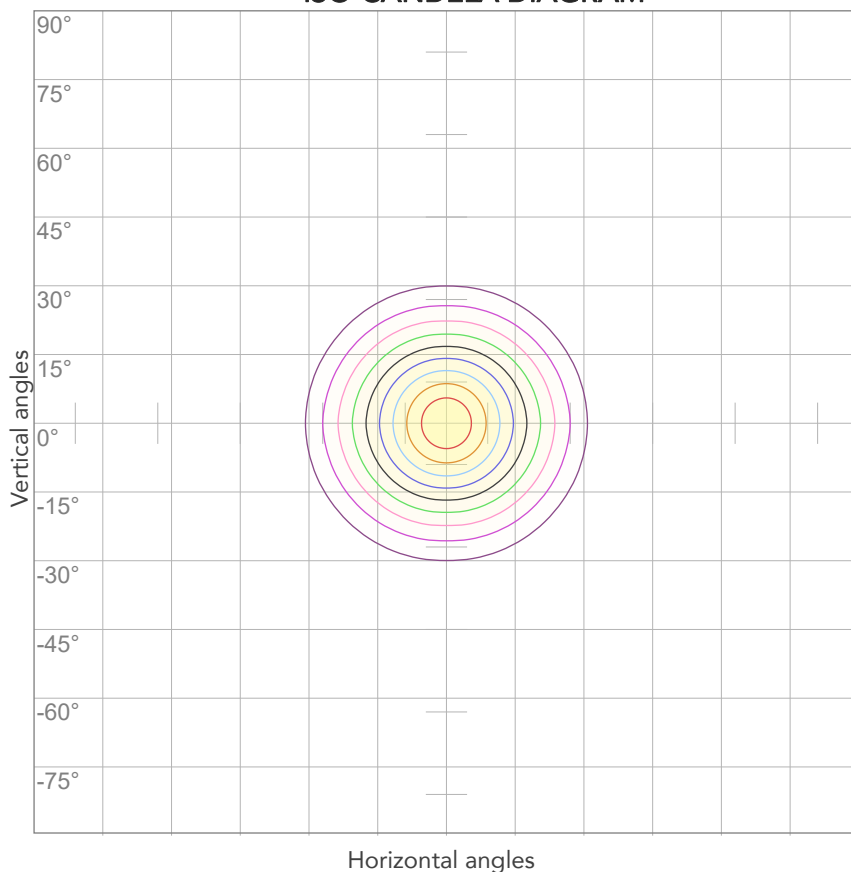


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 232V | 2,14A | 469,7W | 9lm/W |

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

ISO CANDELA DIAGRAM



| | |
|-----|---------|
| 10% | 935 cd |
| 20% | 1869 cd |
| 30% | 2804 cd |
| 40% | 3738 cd |
| 50% | 4673 cd |
| 60% | 5607 cd |
| 70% | 6542 cd |
| 80% | 7476 cd |

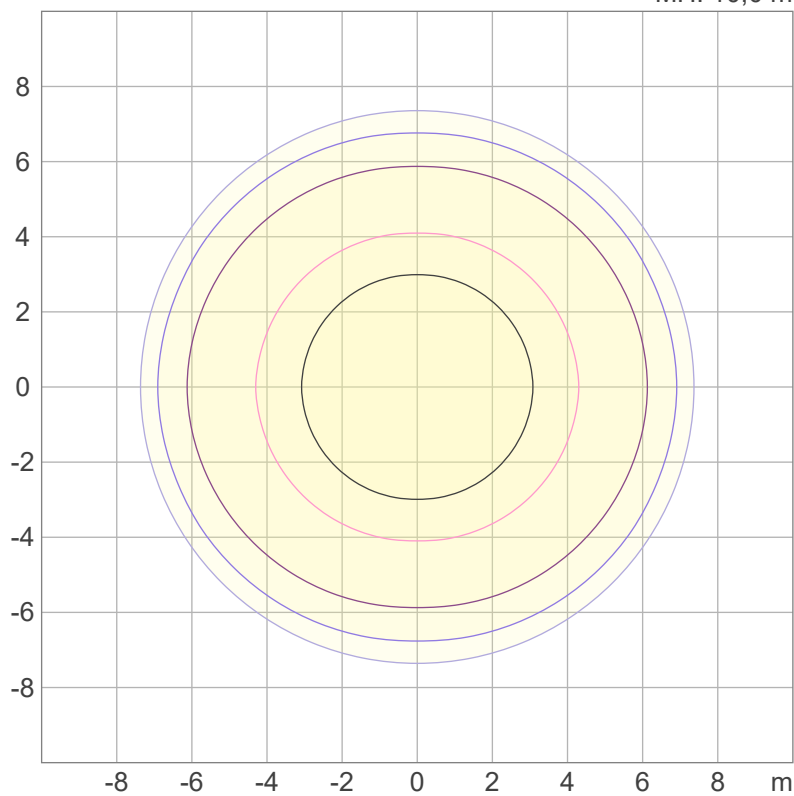
Conditions:

Number of c-planes: 4

Candela at center: 9345 cd

ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

| | |
|-----|---------|
| 3% | 2,80 lx |
| 5% | 4,67 lx |
| 10% | 9,35 lx |
| 30% | 28,0 lx |
| 50% | 46,7 lx |

Conditions:

Number of c-planes: 4

Lux at center: 93,5 lx

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

Total lumen output:

5949 lm

Peak candela output:

9864 cd



PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 60° Egg Crate

Target:

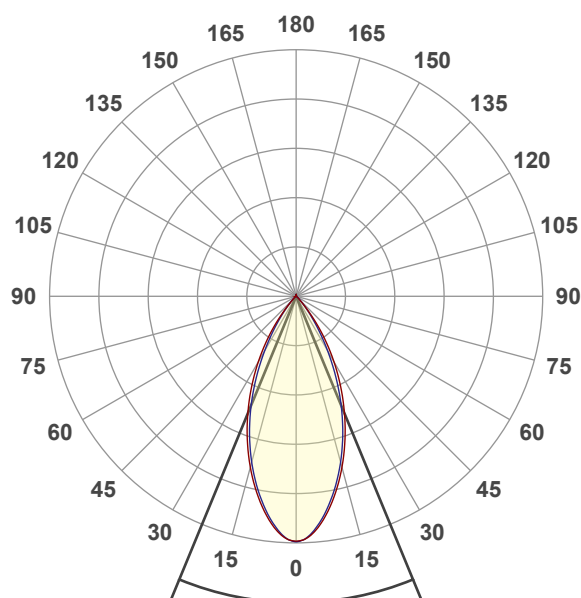
Full On -

Operator:

Paolo Carvone

Date and time:

17/03/2023 14:09:34

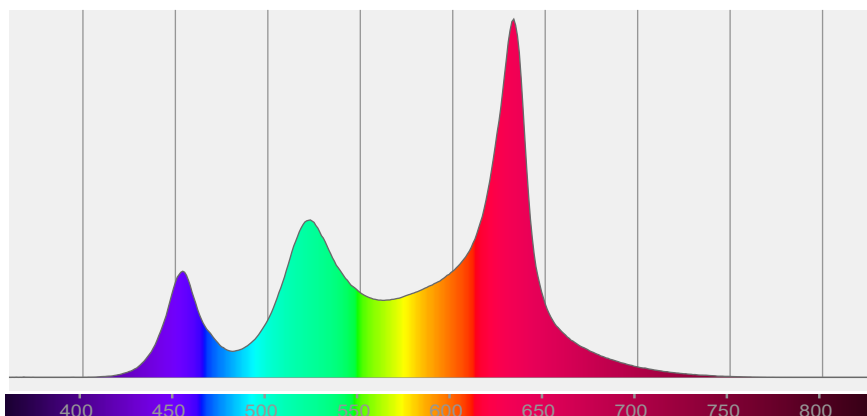


Beam angle 50%: 44,8°

Field angle 10%: 75,6°

Cut off angle 2.5%: 88,4°

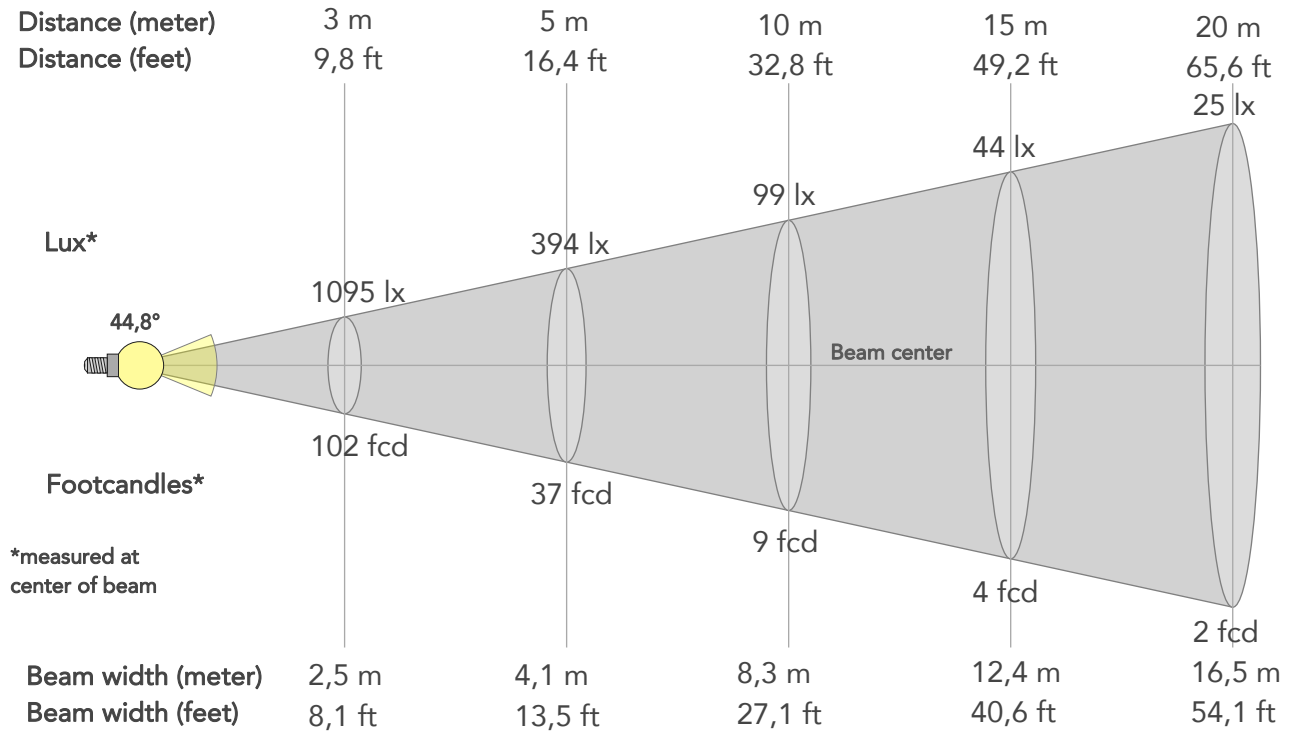
Spectra



BEAM DETAILS



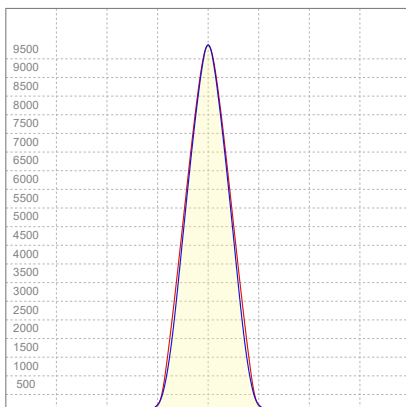
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 44,8° | 75,6° | 88,4° | 99,4% | 97,9% |



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 | 9858lx | 2465lx | 1095lx | 616lx | 394lx | 175lx | 99lx | 44lx | 25lx | 16lx | 11lx | 6lx | 4lx |
| Footcand. | 916fcd | 229fcd | 102fcd | 57fcd | 37fcd | 16fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,3m | 4,1m | 6,2m | 8,3m | 12,4m | 16,5m | 20,6m | 24,8m | 33m | 41,3m |
| Beam wid. | 2,7ft | 5,4ft | 8,1ft | 10,8ft | 13,5ft | 20,3ft | 27,1ft | 40,6ft | 54,1ft | 67,7ft | 81,2ft | 108,3ft | 135,4ft |

LINEAR DISTRIBUTION DIAGRAM

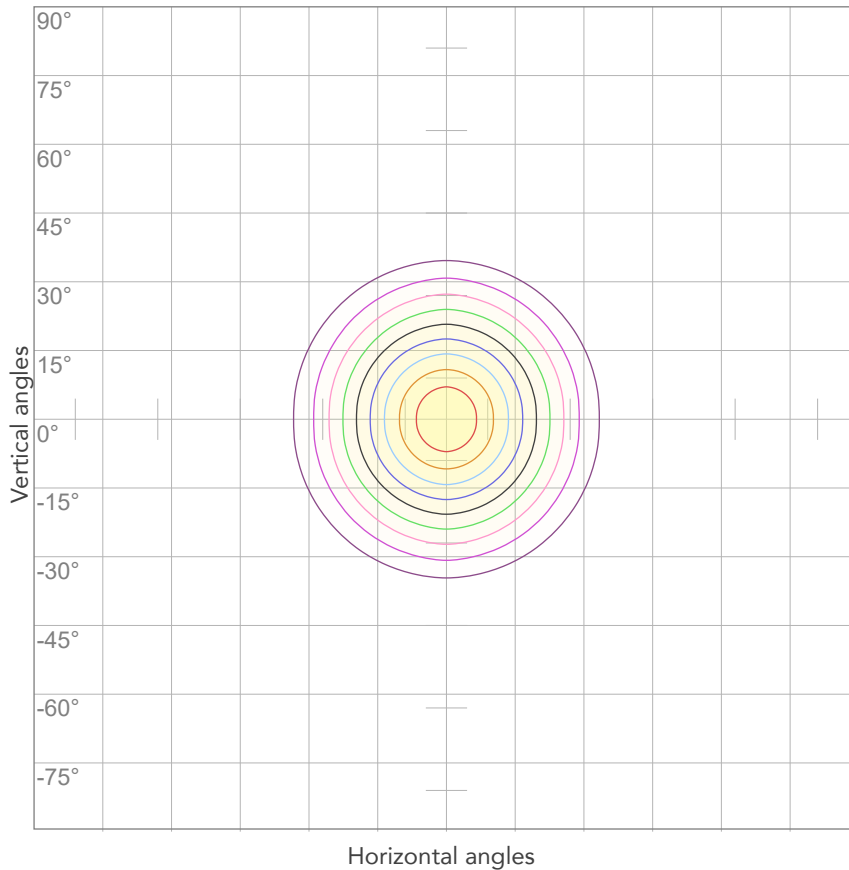


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 231V | 2,13A | 466,6W | 13lm/W |

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

ISO CANDELA DIAGRAM



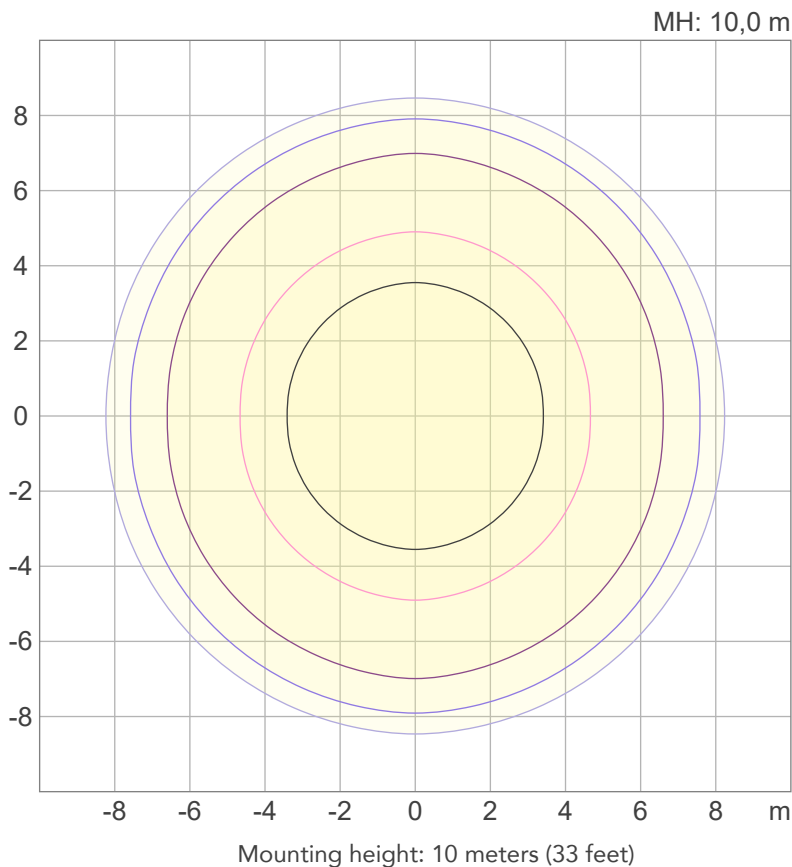
| | |
|-----|---------|
| 10% | 986 cd |
| 20% | 1972 cd |
| 30% | 2957 cd |
| 40% | 3943 cd |
| 50% | 4929 cd |
| 60% | 5915 cd |
| 70% | 6901 cd |
| 80% | 7887 cd |

Conditions:

Number of c-planes: 4

Candela at center: 9858 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 2,96 lx |
| 5% | 4,93 lx |
| 10% | 9,86 lx |
| 30% | 29,6 lx |
| 50% | 49,3 lx |

Conditions:

Number of c-planes: 4

Lux at center: 98,6 lx

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



Total lumen output:

1003 lm

Peak candela output:

2173 cd

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 30° Egg Crate

Target:

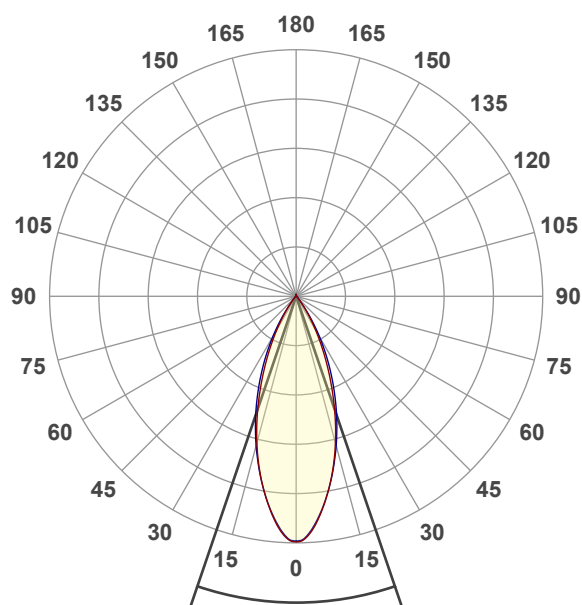
Red -

Operator:

Paolo Carvone

Date and time:

17/03/2023 12:59:56

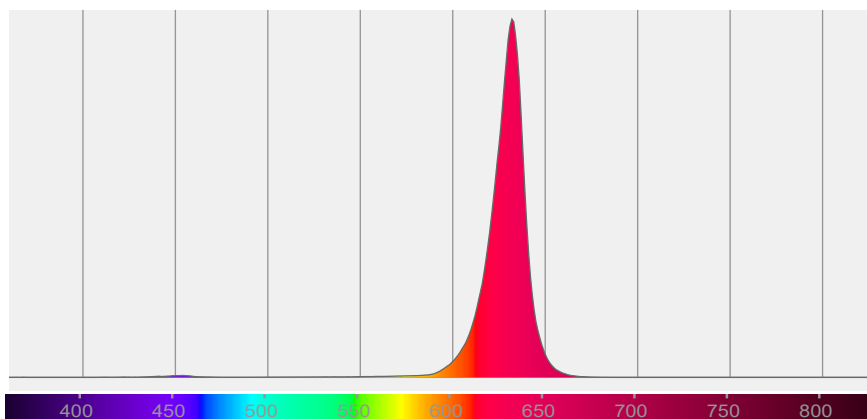


Beam angle 50%: 37,6°

Field angle 10%: 67°

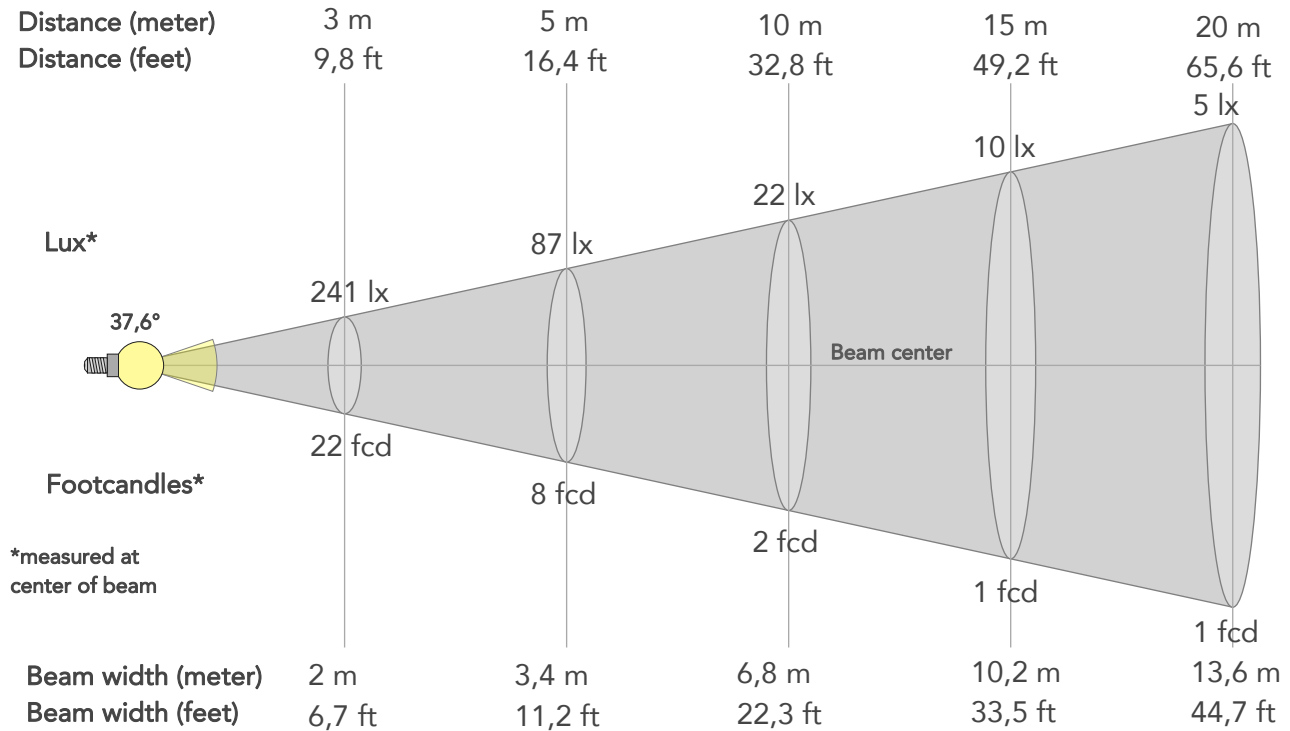
Cut off angle 2.5%: 79,9°

Spectra



BEAM DETAILS

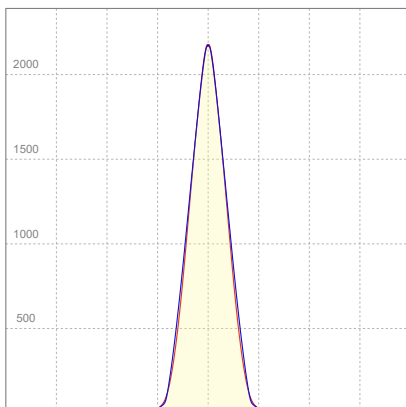
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 37,6° | 67° | 79,9° | 99,0% | 97,7% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 2172lx | 543lx | 241lx | 136lx | 87lx | 39lx | 22lx | 10lx | 5lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 202fcd | 50fcd | 22fcd | 13fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,7m | 1,4m | 2m | 2,7m | 3,4m | 5,1m | 6,8m | 10,2m | 13,6m | 17m | 20,4m | 27,2m | 34,1m |
| Beam wid. | 2,2ft | 4,5ft | 6,7ft | 8,9ft | 11,2ft | 16,8ft | 22,3ft | 33,5ft | 44,7ft | 55,9ft | 67ft | 89,4ft | 111,7ft |

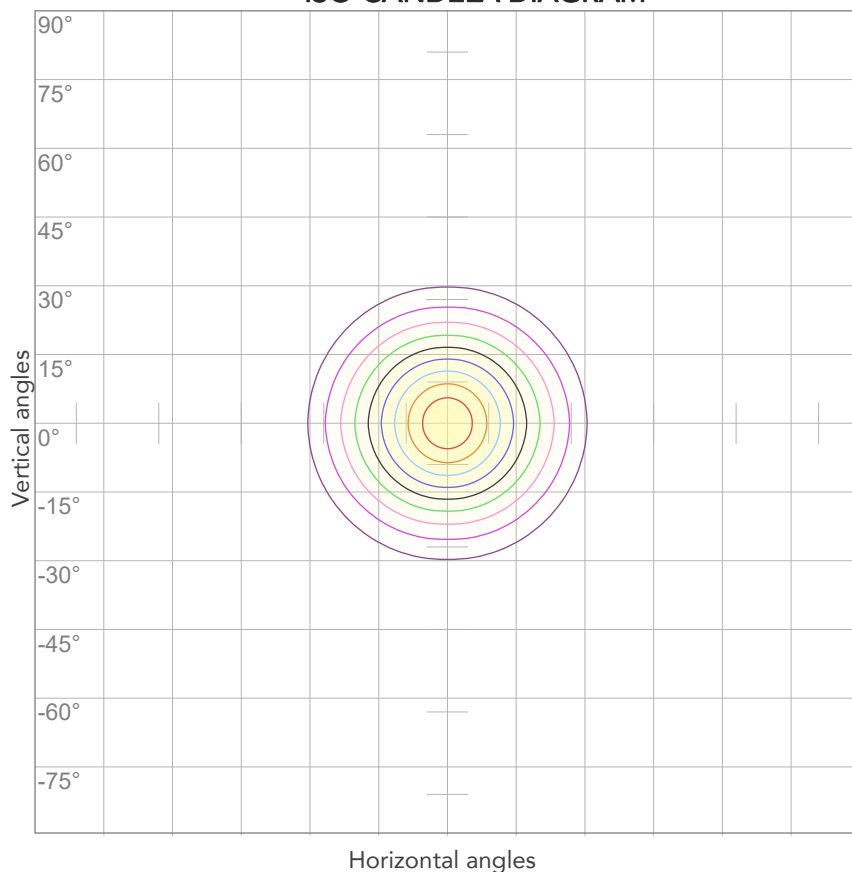
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 233V | 0,918A | 174,4W | 6lm/W |
| Power FC | | | |
| 0,81 | | | |

ISO CANDELA DIAGRAM



| | |
|-----|---------|
| 10% | 217 cd |
| 20% | 434 cd |
| 30% | 652 cd |
| 40% | 869 cd |
| 50% | 1086 cd |
| 60% | 1303 cd |
| 70% | 1520 cd |
| 80% | 1738 cd |

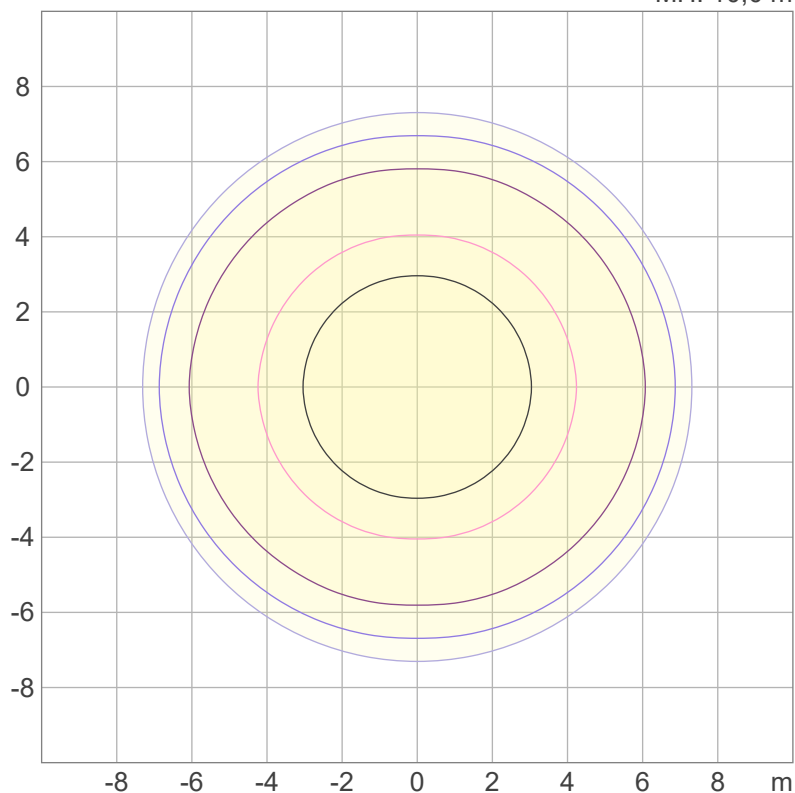
Conditions:

Number of c-planes: 4

Candela at center: 2172 cd

ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

| | |
|-----|----------|
| 3% | 0,652 lx |
| 5% | 1,09 lx |
| 10% | 2,17 lx |
| 30% | 6,52 lx |
| 50% | 10,9 lx |

Conditions:

Number of c-planes: 4

Lux at center: 21,7 lx

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



Total lumen output:

1407 lm

Peak candela output:

2344 cd

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 60° Egg Crate

Target:

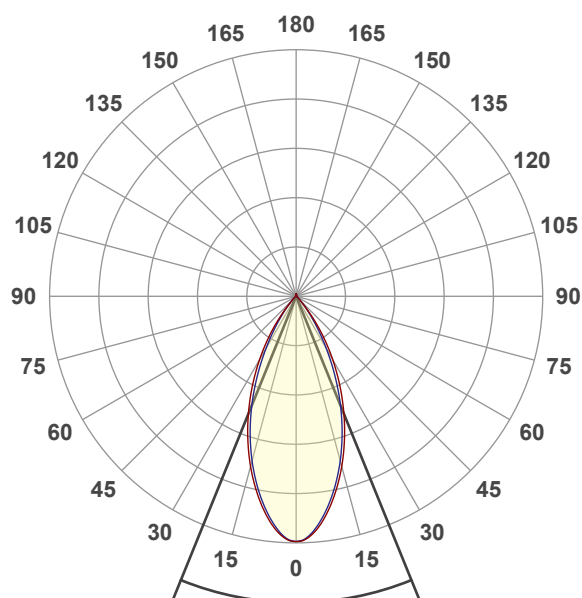
Red -

Operator:

Paolo Carvone

Date and time:

17/03/2023 14:28:24

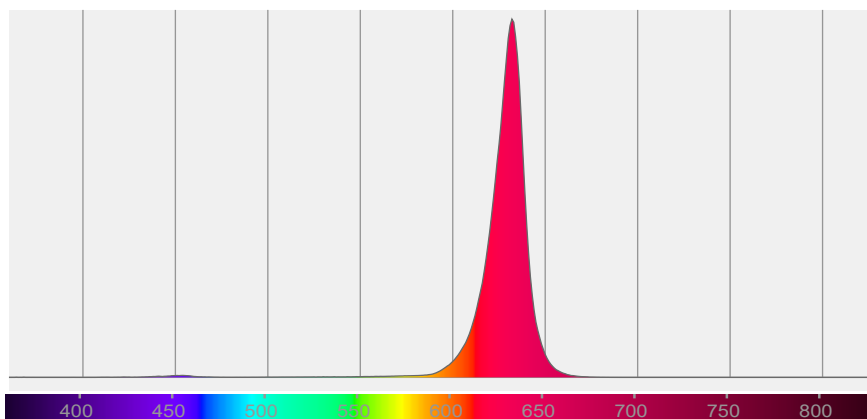


Beam angle 50%: 44,2°

Field angle 10%: 75,1°

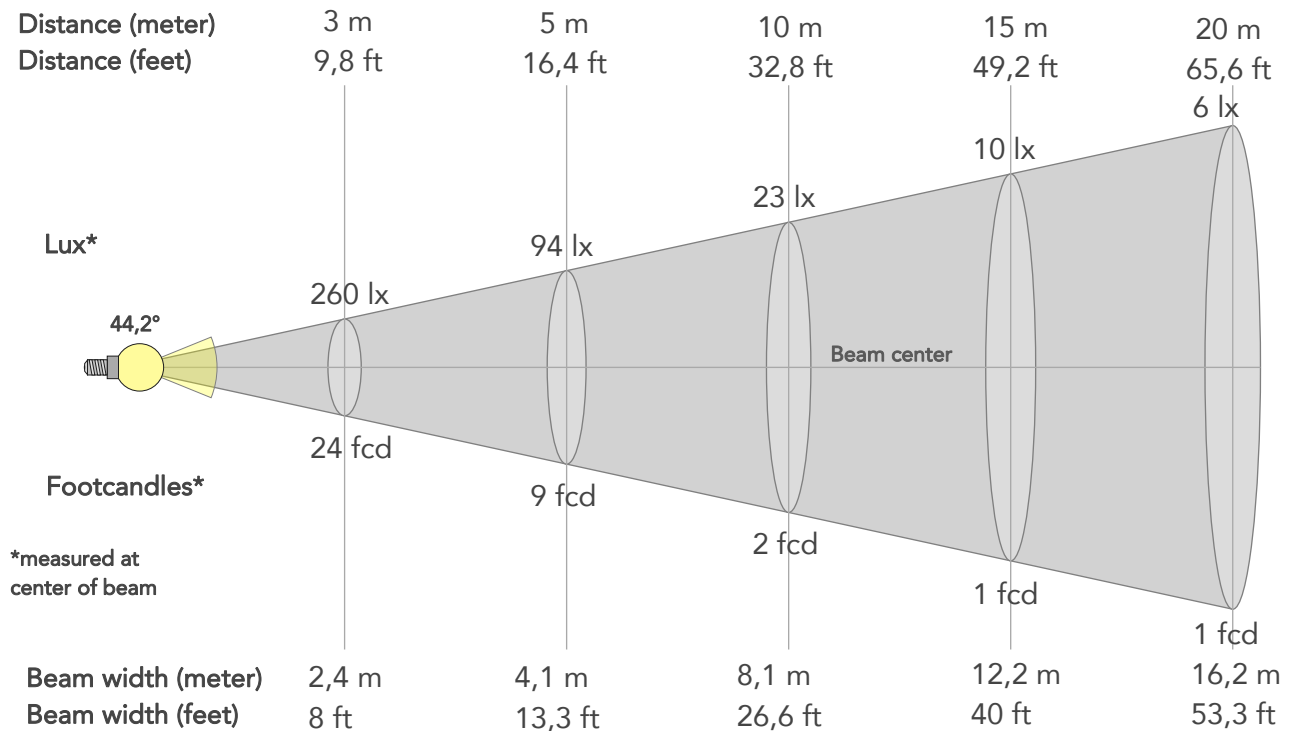
Cut off angle 2.5%: 88,7°

Spectra



BEAM DETAILS

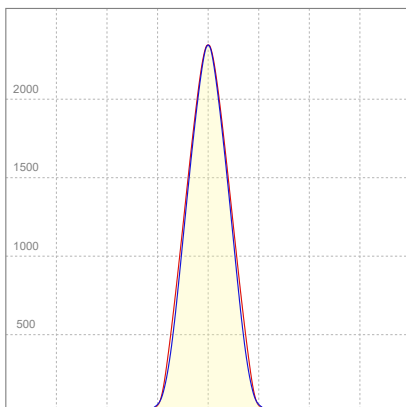
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 44,2° | 75,1° | 88,7° | 98,6% | 96,7% |



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 | 2343lx | 586lx | 260lx | 146lx | 94lx | 42lx | 23lx | 10lx | 6lx | 4lx | 3lx | 1lx | 1lx |
| Footcand. | 218fcd | 54fcd | 24fcd | 14fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,6m | 2,4m | 3,2m | 4,1m | 6,1m | 8,1m | 12,2m | 16,2m | 20,3m | 24,4m | 32,5m | 40,6m |
| Beam wid. | 2,7ft | 5,4ft | 8ft | 10,6ft | 13,3ft | 20ft | 26,6ft | 40ft | 53,3ft | 66,6ft | 79,9ft | 106,6ft | 133,2ft |

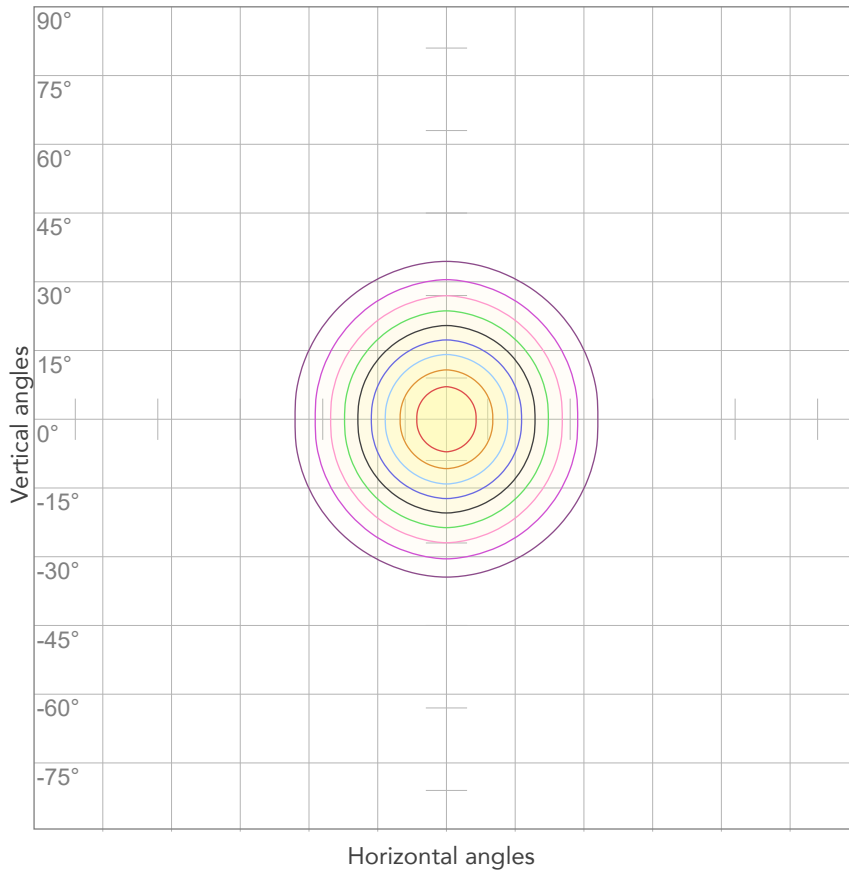
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|---------------|--------------|
| 232V | 0,917A | 174,3W | 8lm/W |
| Power FC | | | |
| 0,82 | | | |

ISO CANDELA DIAGRAM



| | |
|-----|---------|
| 10% | 234 cd |
| 20% | 469 cd |
| 30% | 703 cd |
| 40% | 937 cd |
| 50% | 1172 cd |
| 60% | 1406 cd |
| 70% | 1640 cd |
| 80% | 1875 cd |

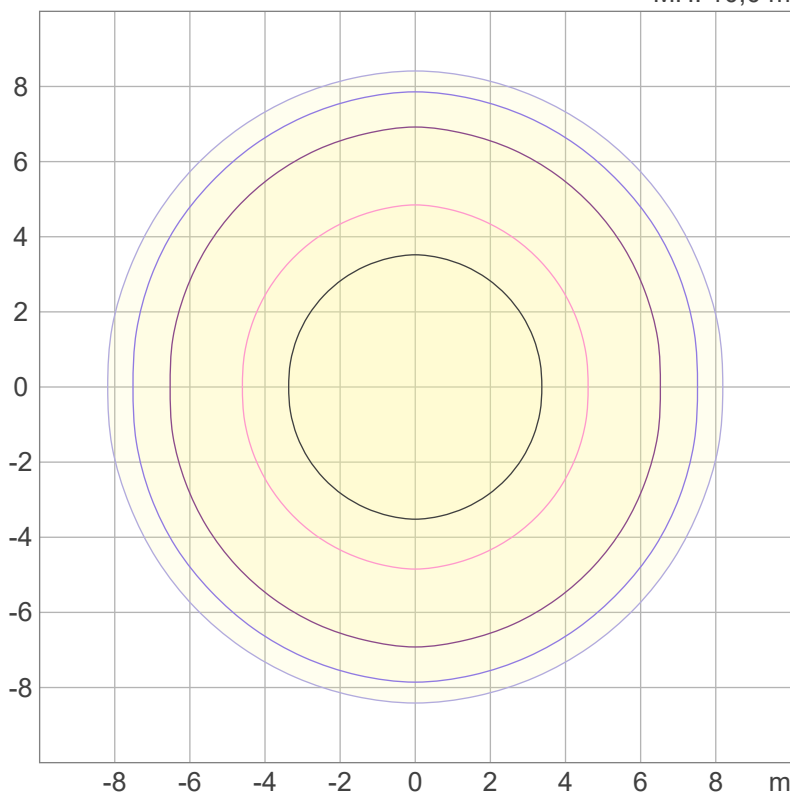
Conditions:

Number of c-planes: 4

Candela at center: 2343 cd

ISO LUX DIAGRAM

MH: 10,0 m



| | |
|-----|----------|
| 3% | 0,703 lx |
| 5% | 1,17 lx |
| 10% | 2,34 lx |
| 30% | 7,03 lx |
| 50% | 11,7 lx |

Conditions:

Number of c-planes: 4

Lux at center: 23,4 lx

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



Total lumen output:

1974 lm

Peak candela output:

3994 cd

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 30° Egg Crate

Target:

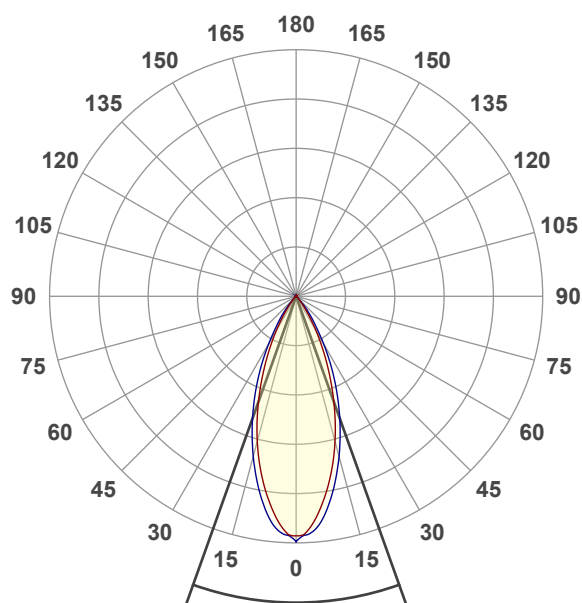
Green -

Operator:

Paolo Carvone

Date and time:

17/03/2023 13:03:48

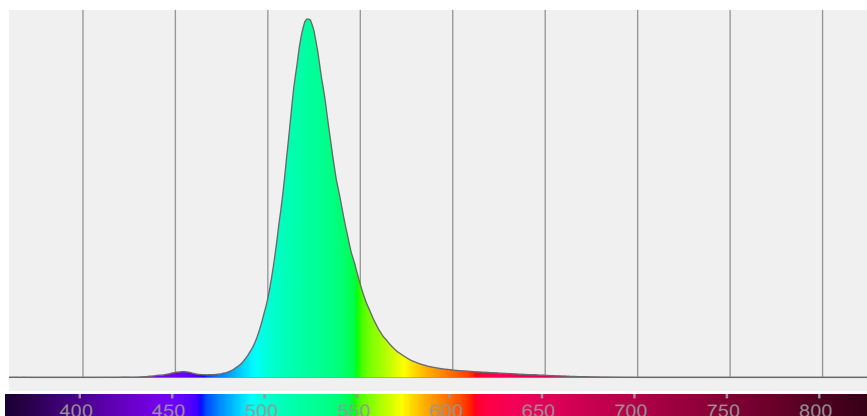


Beam angle 50%: 39,3°

Field angle 10%: 69,7°

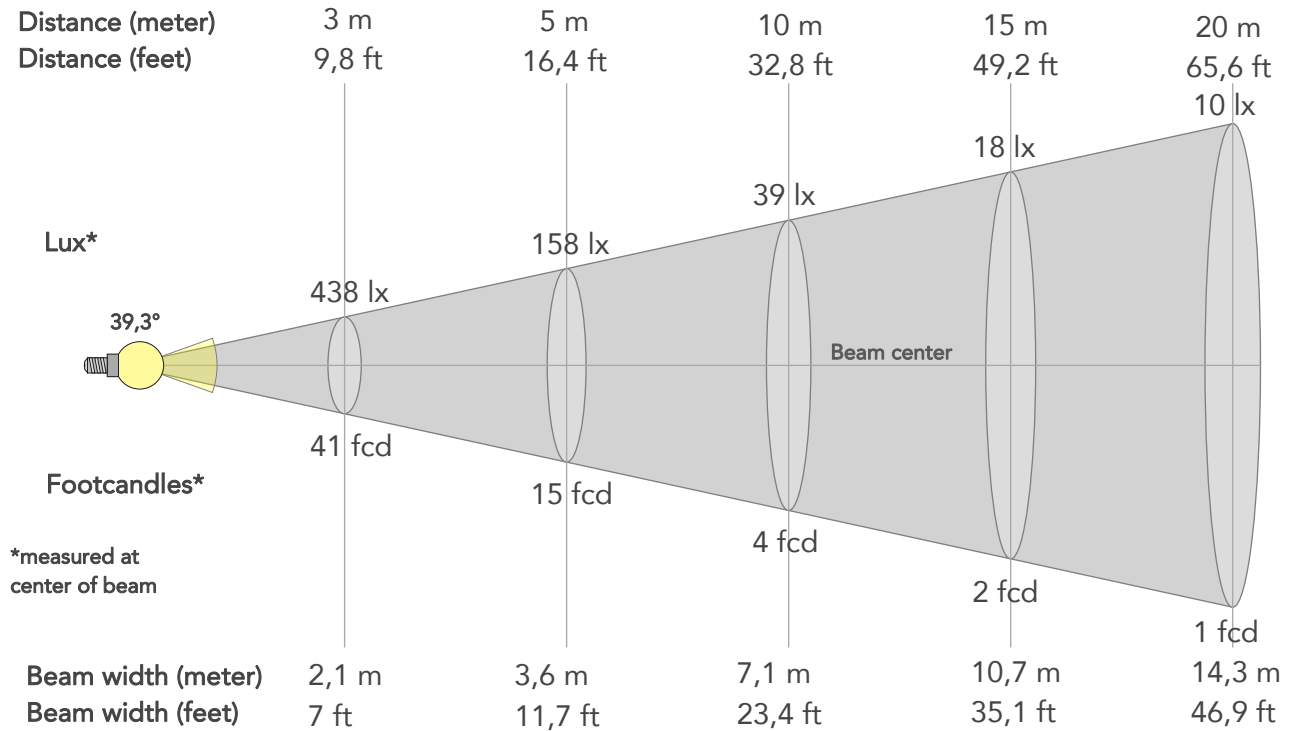
Cut off angle 2.5%: 83,8°

Spectra



BEAM DETAILS

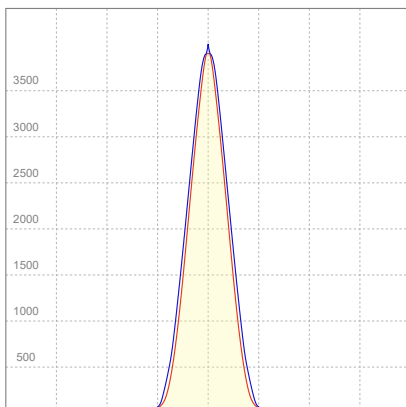
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 39,3° | 69,7° | 83,8° | 99,1% | 97,6% |



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 | 3945lx | 986lx | 438lx | 247lx | 158lx | 70lx | 39lx | 18lx | 10lx | 6lx | 4lx | 2lx | 2lx |
| Footcand. | 367fcd | 92fcd | 41fcd | 23fcd | 15fcd | 7fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,7m | 1,4m | 2,1m | 2,9m | 3,6m | 5,4m | 7,1m | 10,7m | 14,3m | 17,9m | 21,4m | 28,6m | 35,7m |
| Beam wid. | 2,4ft | 4,7ft | 7ft | 9,4ft | 11,7ft | 17,6ft | 23,4ft | 35,1ft | 46,9ft | 58,6ft | 70,3ft | 93,7ft | 117,1ft |

LINEAR DISTRIBUTION DIAGRAM

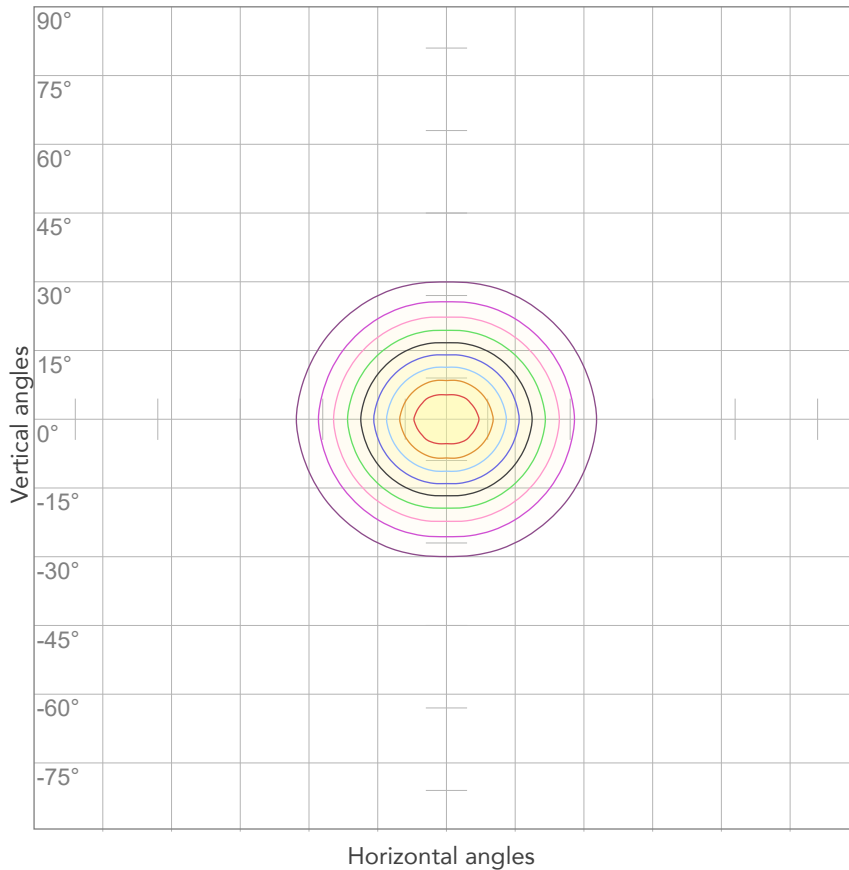


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 232V | 1,13A | 226,4W | 9lm/W |

| Power FC |
|----------|
| 0,86 |

ISO CANDELA DIAGRAM



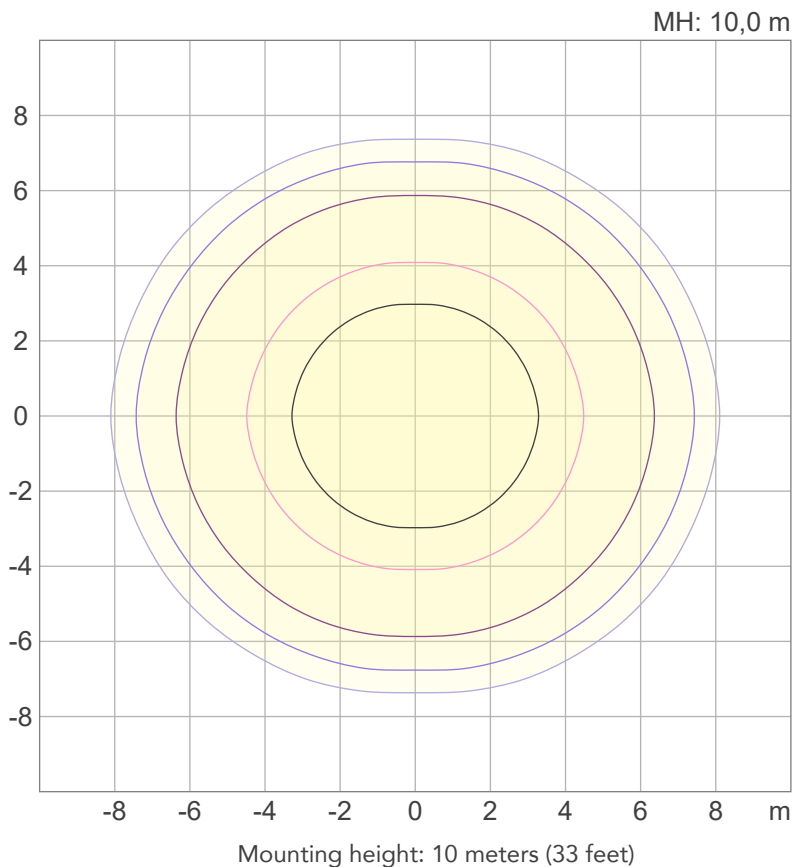
| | |
|-----|---------|
| 10% | 395 cd |
| 20% | 789 cd |
| 30% | 1184 cd |
| 40% | 1578 cd |
| 50% | 1973 cd |
| 60% | 2367 cd |
| 70% | 2762 cd |
| 80% | 3156 cd |

Conditions:

Number of c-planes: 4

Candela at center: 3945 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,18 lx |
| 5% | 1,97 lx |
| 10% | 3,95 lx |
| 30% | 11,8 lx |
| 50% | 19,7 lx |

Conditions:

Number of c-planes: 4

Lux at center: 39,5 lx

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



Total lumen output:

2813 lm

Peak candela output:

4574 cd

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 60° Egg Crate

Target:

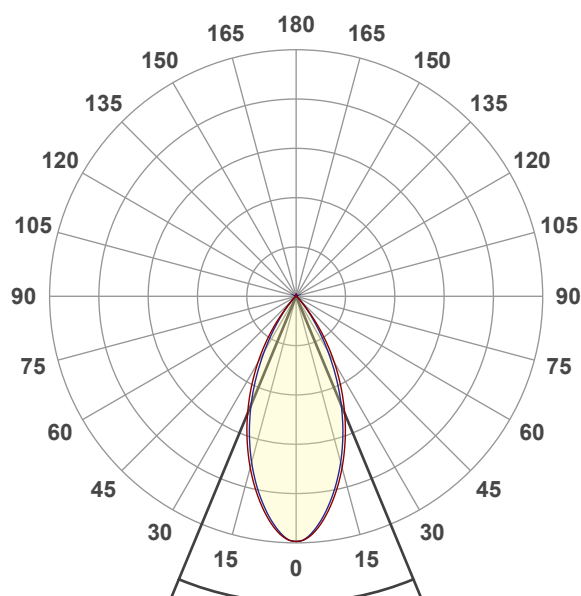
Green -

Operator:

Paolo Carvone

Date and time:

17/03/2023 14:36:04

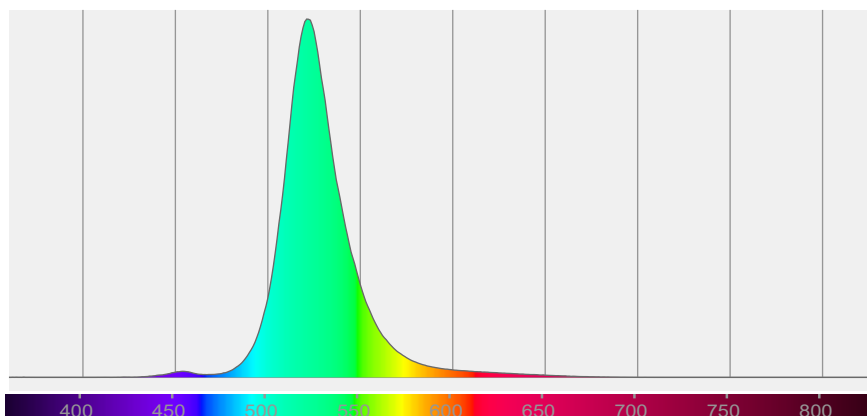


Beam angle 50%: 45°

Field angle 10%: 75,8°

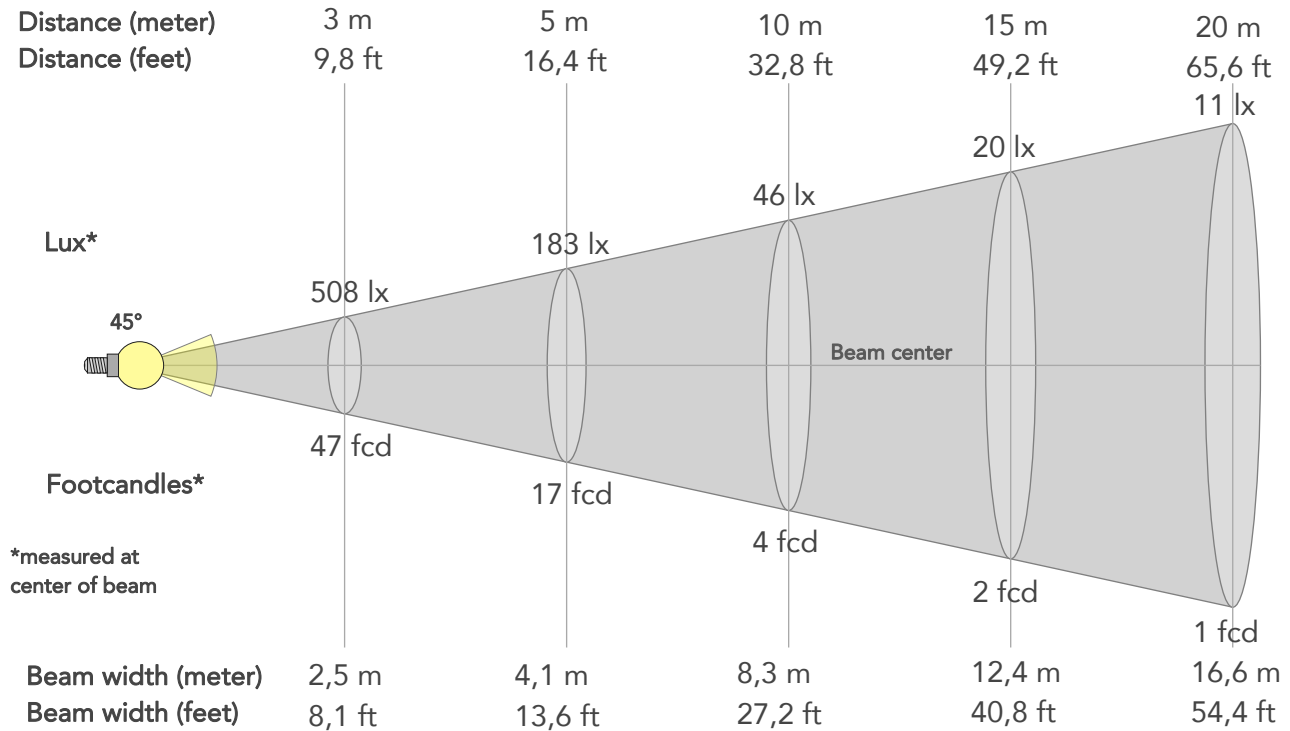
Cut off angle 2.5%: 89,8°

Spectra



BEAM DETAILS

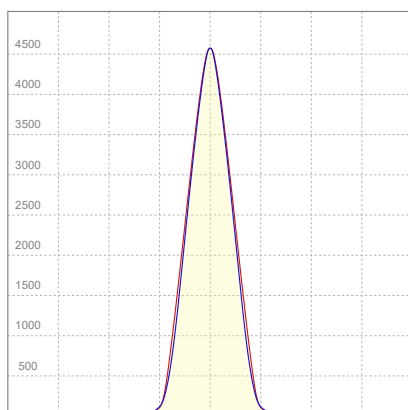
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45° | 75,8° | 89,8° | 98,8% | 96,7% |



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 | 4570lx | 1143lx | 508lx | 286lx | 183lx | 81lx | 46lx | 20lx | 11lx | 7lx | 5lx | 3lx | 2lx |
| Footcand. | 425fcd | 106fcd | 47fcd | 27fcd | 17fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,3m | 4,1m | 6,2m | 8,3m | 12,4m | 16,6m | 20,7m | 24,9m | 33,2m | 41,4m |
| Beam wid. | 2,7ft | 5,5ft | 8,1ft | 10,9ft | 13,6ft | 20,4ft | 27,2ft | 40,8ft | 54,4ft | 68ft | 81,6ft | 108,8ft | 135,9ft |

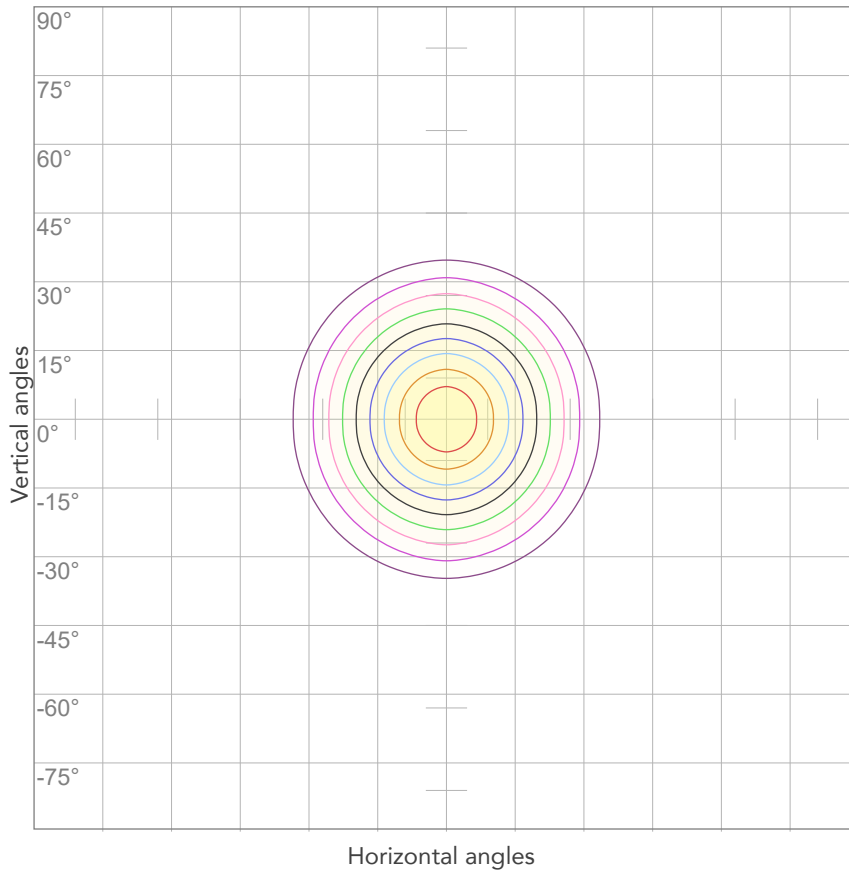
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 234V | 1,13A | 226,9W | 12lm/W |
| Power FC | | | |
| 0,86 | | | |

ISO CANDELA DIAGRAM



| | |
|-----|---------|
| 10% | 457 cd |
| 20% | 914 cd |
| 30% | 1371 cd |
| 40% | 1828 cd |
| 50% | 2285 cd |
| 60% | 2742 cd |
| 70% | 3199 cd |
| 80% | 3656 cd |

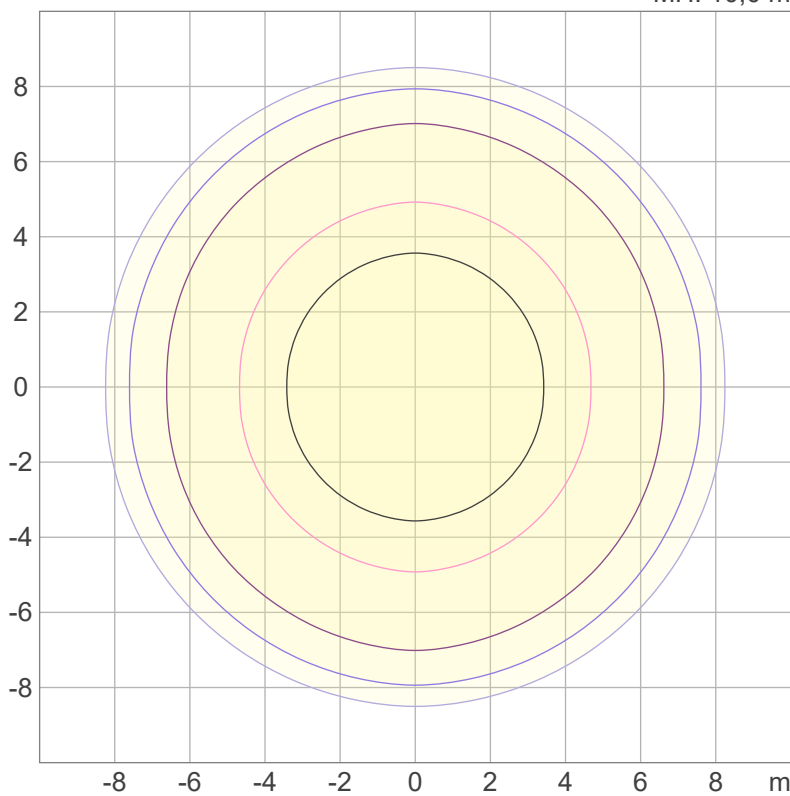
Conditions:

Number of c-planes: 4

Candela at center: 4570 cd

ISO LUX DIAGRAM

MH: 10,0 m



| | |
|-----|---------|
| 3% | 1,37 lx |
| 5% | 2,29 lx |
| 10% | 4,57 lx |
| 30% | 13,7 lx |
| 50% | 22,9 lx |

Conditions:

Number of c-planes: 4

Lux at center: 45,7 lx

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



Total lumen output:

240 lm

Peak candela output:

561 cd

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 30° Egg Crate

Target:

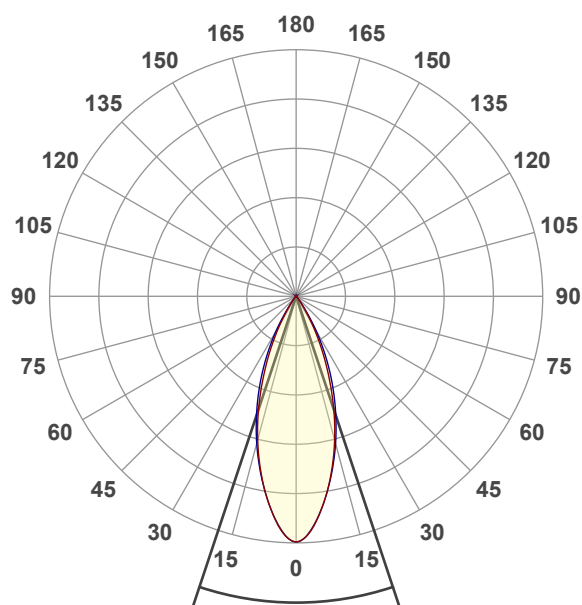
Blue -

Operator:

Paolo Carvone

Date and time:

17/03/2023 13:06:32

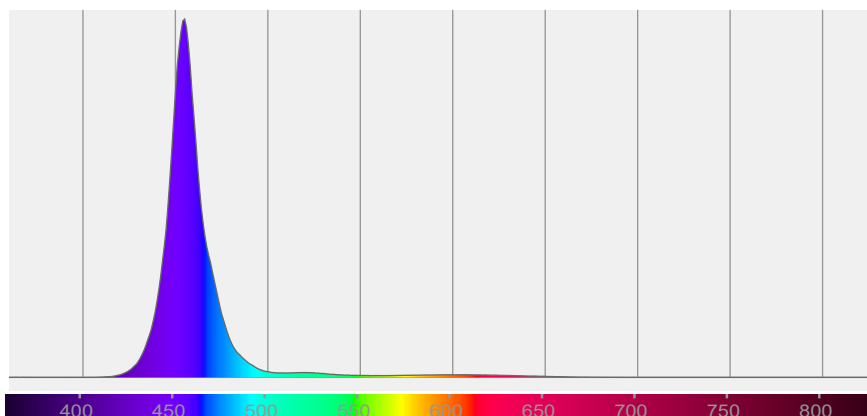


Beam angle 50%: 36,8°

Field angle 10%: 63,9°

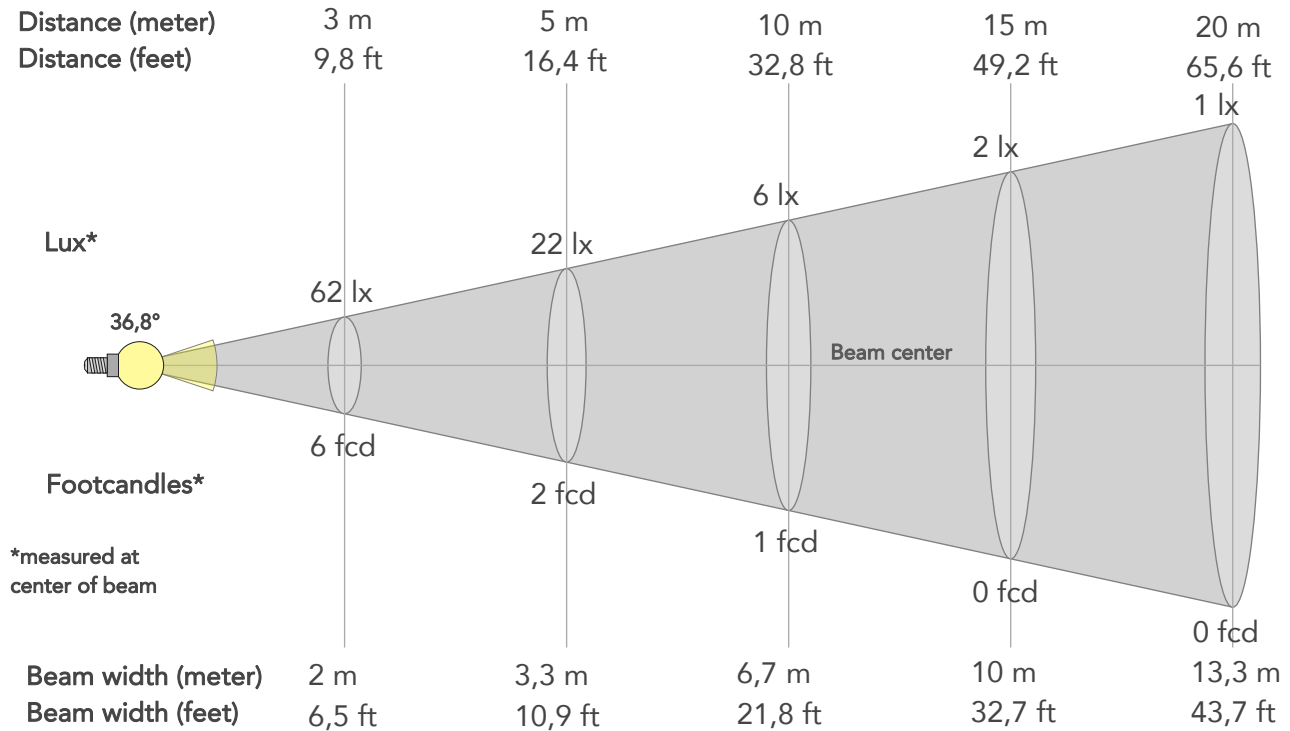
Cut off angle 2.5%: 75,6°

Spectra



BEAM DETAILS

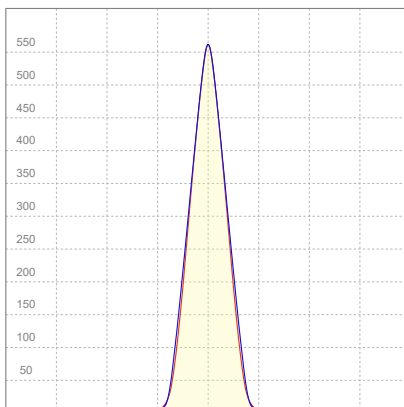
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 36,8° | 63,9° | 75,6° | 99,6% | 98,6% |



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 | 561lx | 140lx | 62lx | 35lx | 22lx | 10lx | 6lx | 2lx | 1lx | 1lx | 1lx | 0lx | 0lx |
| Footcand. | 52fcd | 13fcd | 6fcd | 3fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,7m | 1,3m | 2m | 2,7m | 3,3m | 5m | 6,7m | 10m | 13,3m | 16,6m | 20m | 26,6m | 33,3m |
| Beam wid. | 2,2ft | 4,4ft | 6,5ft | 8,7ft | 10,9ft | 16,4ft | 21,8ft | 32,7ft | 43,7ft | 54,6ft | 65,5ft | 87,3ft | 109,1ft |

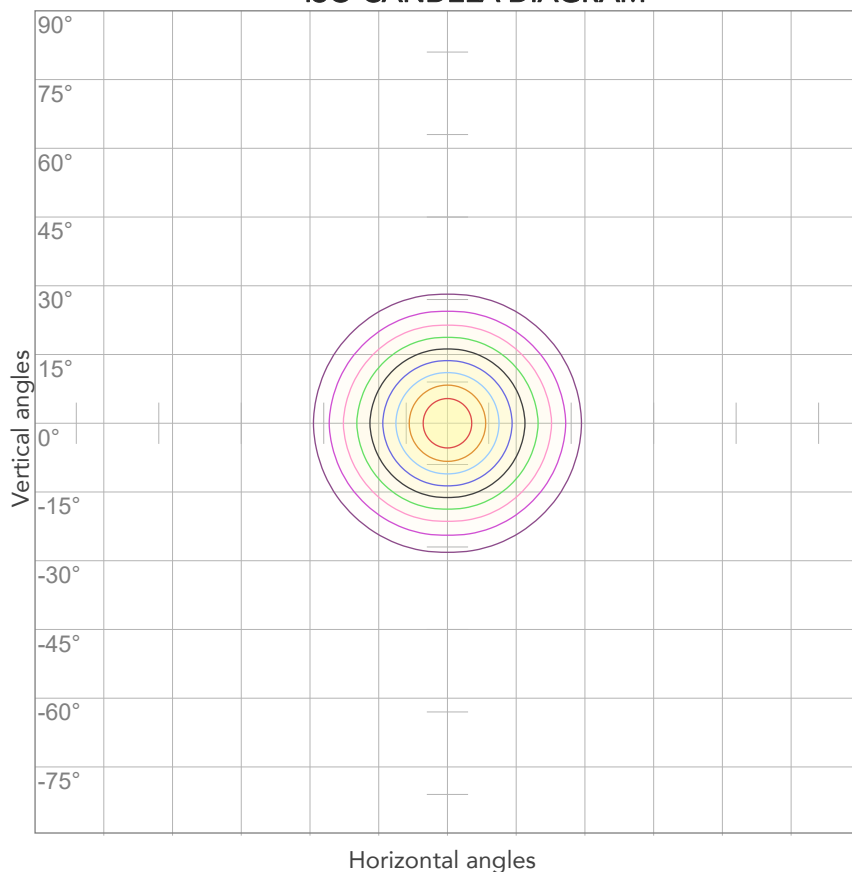
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 233V | 0,630A | 98,9W | 2lm/W |
| Power FC | | | |
| 0,67 | | | |

ISO CANDELA DIAGRAM



| | |
|-----|--------|
| 10% | 56 cd |
| 20% | 112 cd |
| 30% | 168 cd |
| 40% | 224 cd |
| 50% | 280 cd |
| 60% | 336 cd |
| 70% | 392 cd |
| 80% | 448 cd |

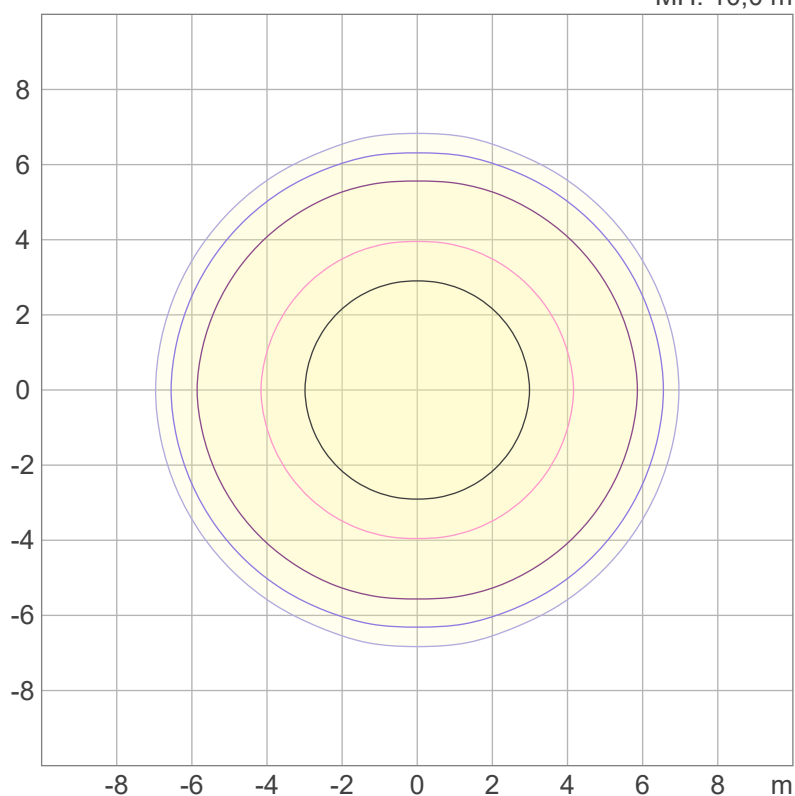
Conditions:

Number of c-planes: 4

Candela at center: 561 cd

ISO LUX DIAGRAM

MH: 10,0 m



| | |
|-----|----------|
| 3% | 0,168 lx |
| 5% | 0,280 lx |
| 10% | 0,561 lx |
| 30% | 1,68 lx |
| 50% | 2,80 lx |

Conditions:

Number of c-planes: 4

Lux at center: 5,61 lx

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



Total lumen output:

341 lm

Peak candela output:

605 cd

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 60° Egg Crate

Target:

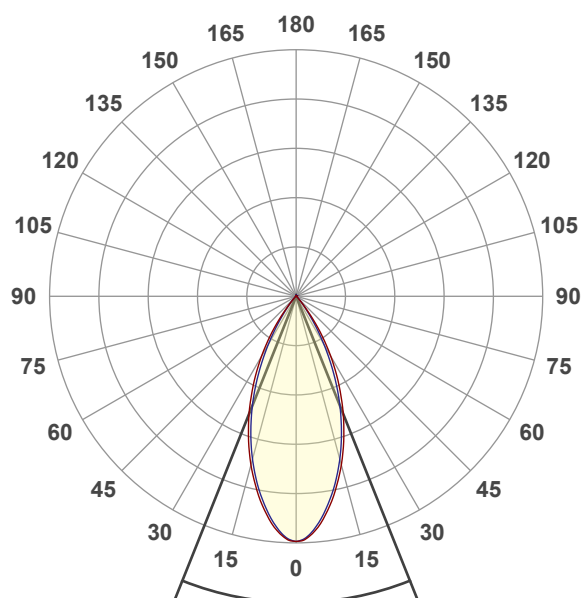
Blue -

Operator:

Paolo Carvone

Date and time:

17/03/2023 14:38:59

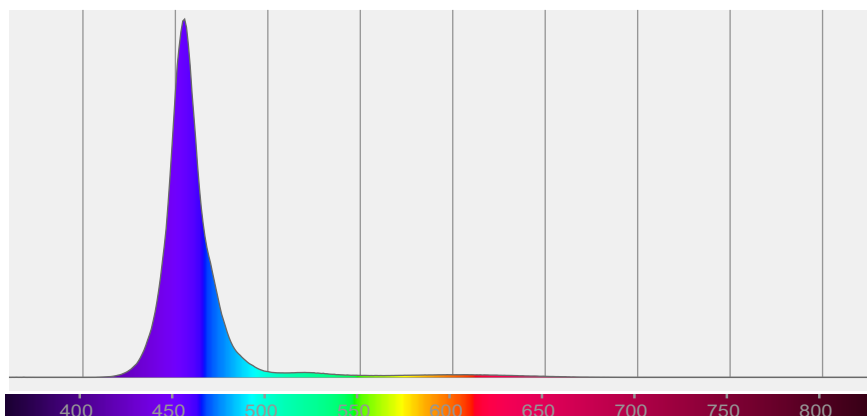


Beam angle 50%: 43,6°

Field angle 10%: 72,2°

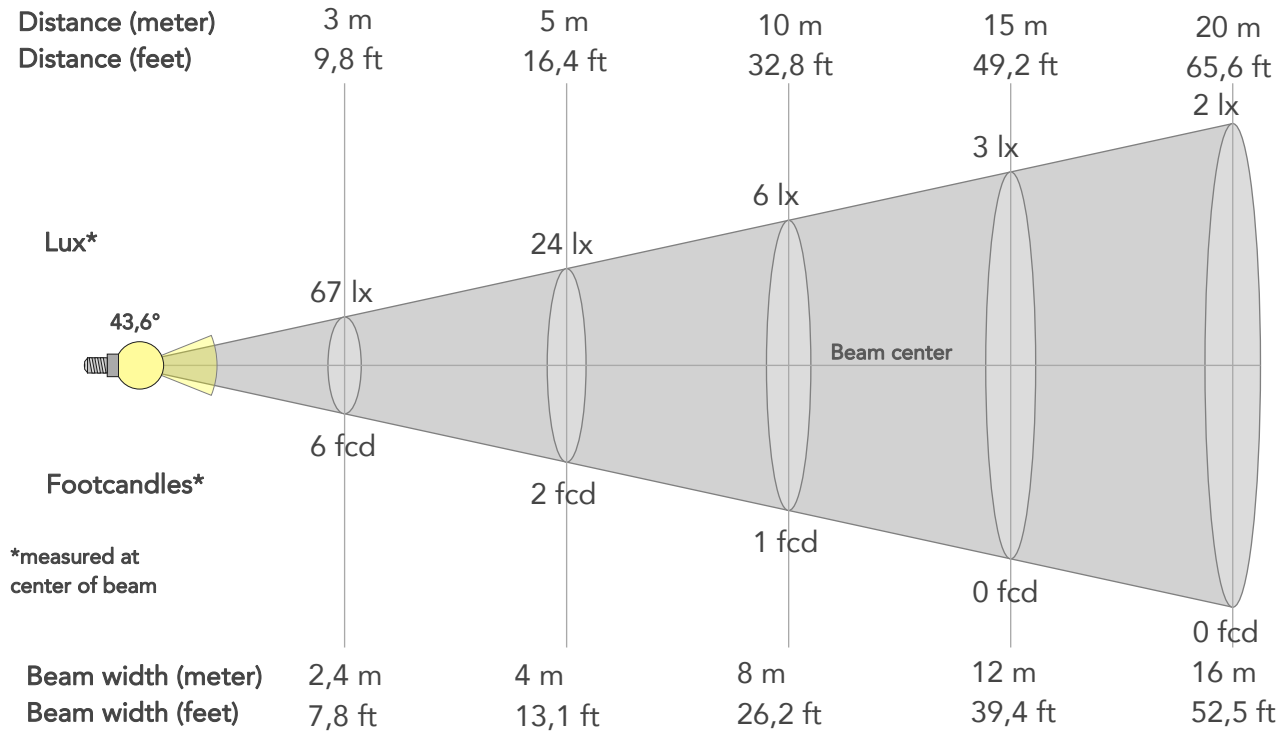
Cut off angle 2.5%: 84,4°

Spectra



BEAM DETAILS

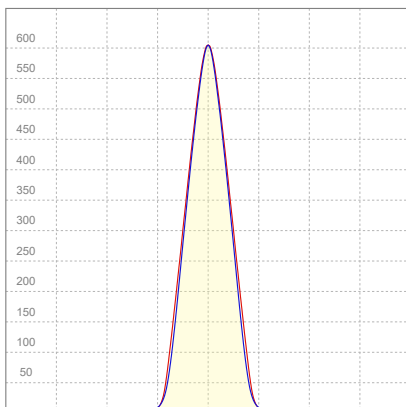
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 43,6° | 72,2° | 84,4° | 99,3% | 97,9% |



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 | 604lx | 151lx | 67lx | 38lx | 24lx | 11lx | 6lx | 3lx | 2lx | 1lx | 1lx | 0lx | 0lx |
| Footcand. | 56fcd | 14fcd | 6fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,6m | 2,4m | 3,2m | 4m | 6m | 8m | 12m | 16m | 20m | 24m | 32m | 40m |
| Beam wid. | 2,6ft | 5,3ft | 7,8ft | 10,5ft | 13,1ft | 19,7ft | 26,2ft | 39,4ft | 52,5ft | 65,6ft | 78,7ft | 105ft | 131,2ft |

LINEAR DISTRIBUTION DIAGRAM

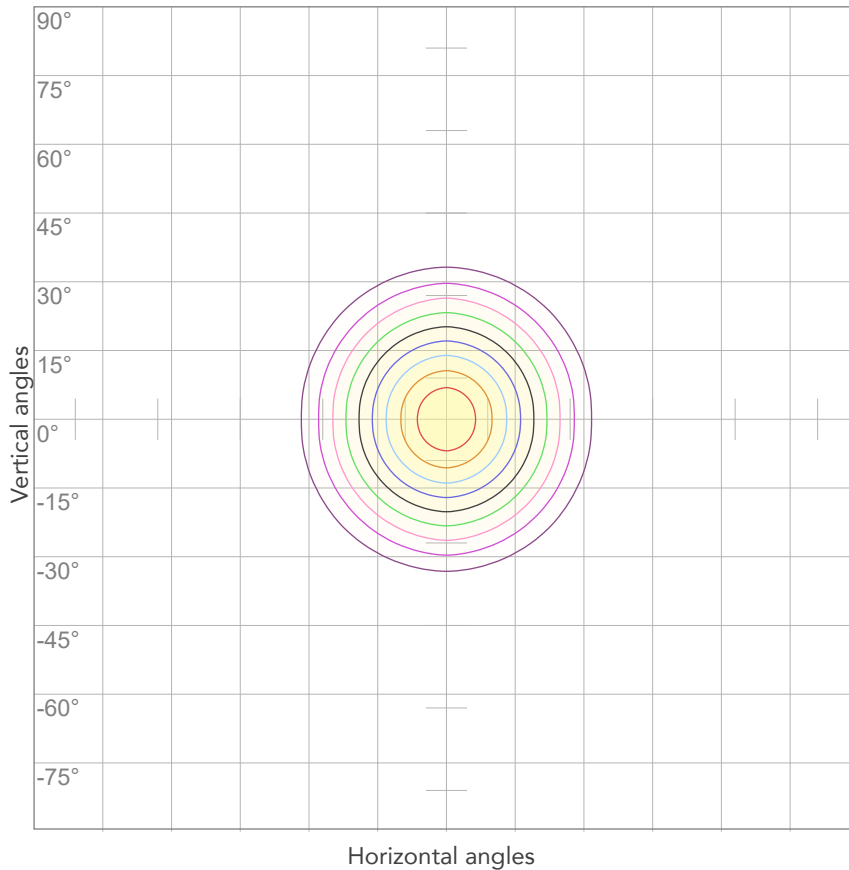


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|--------------|--------------|
| 234V | 0,628A | 98,9W | 3lm/W |

| Power FC |
|-------------|
| 0,67 |

ISO CANDELA DIAGRAM



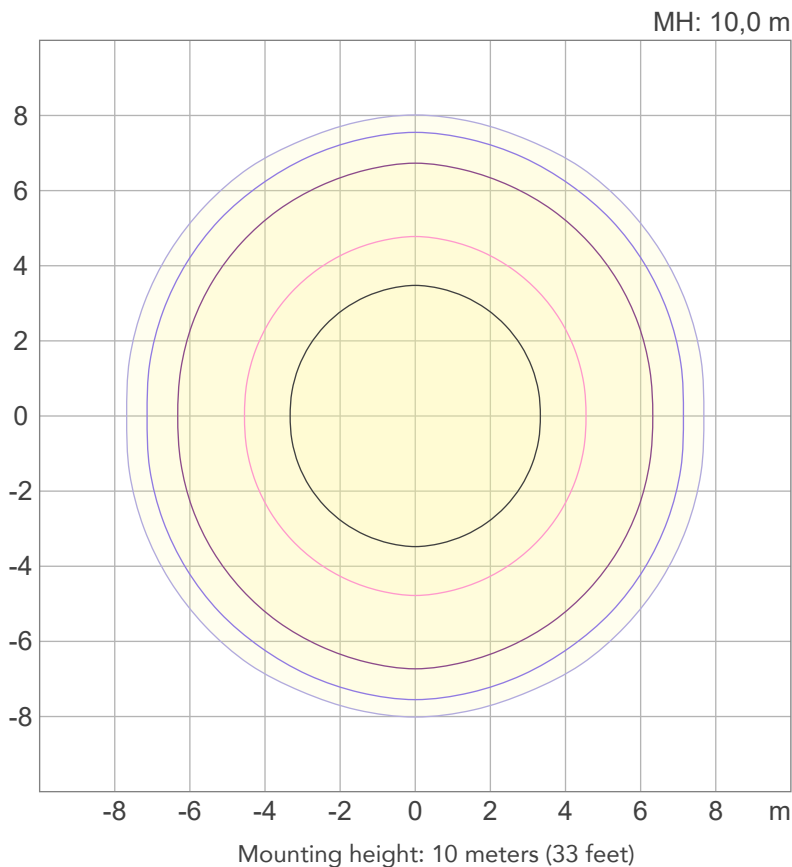
| | |
|-----|--------|
| 10% | 60 cd |
| 20% | 121 cd |
| 30% | 181 cd |
| 40% | 242 cd |
| 50% | 302 cd |
| 60% | 363 cd |
| 70% | 423 cd |
| 80% | 483 cd |

Conditions:

Number of c-planes: 4

Candela at center: 604 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,181 lx |
| 5% | 0,302 lx |
| 10% | 0,604 lx |
| 30% | 1,81 lx |
| 50% | 3,02 lx |

Conditions:

Number of c-planes: 4

Lux at center: 6,04 lx

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



Total lumen output:

4403 lm

Peak candela output:

9509 cd

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 30° Egg Crate

Target:

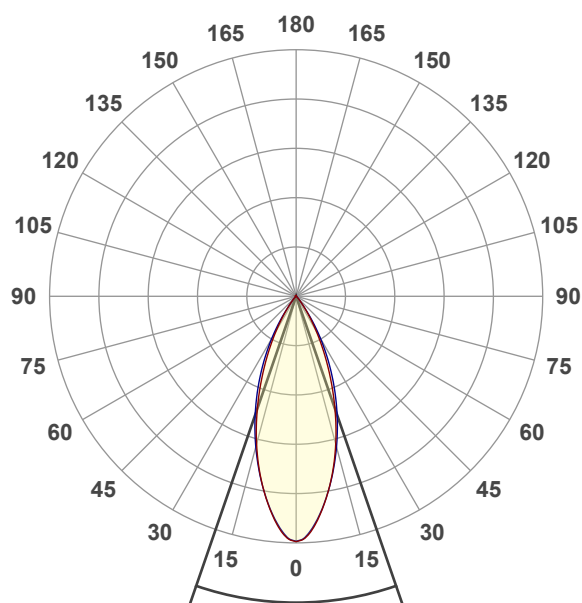
White -

Operator:

Paolo Carvone

Date and time:

17/03/2023 13:09:15

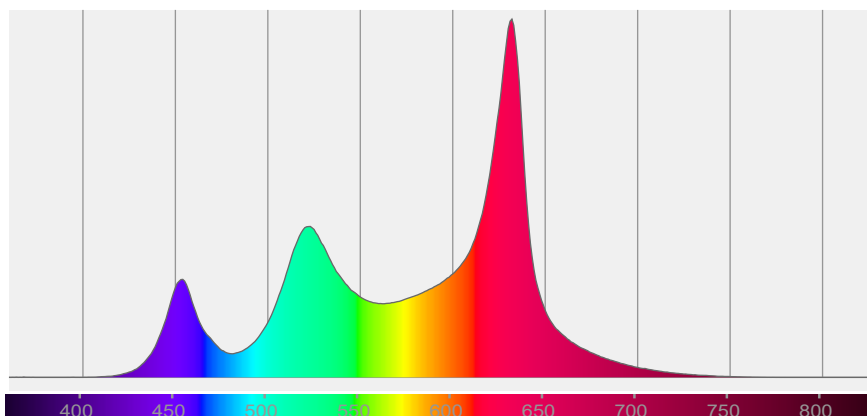


Beam angle 50%: 38,1°

Field angle 10%: 67,4°

Cut off angle 2.5%: 79,7°

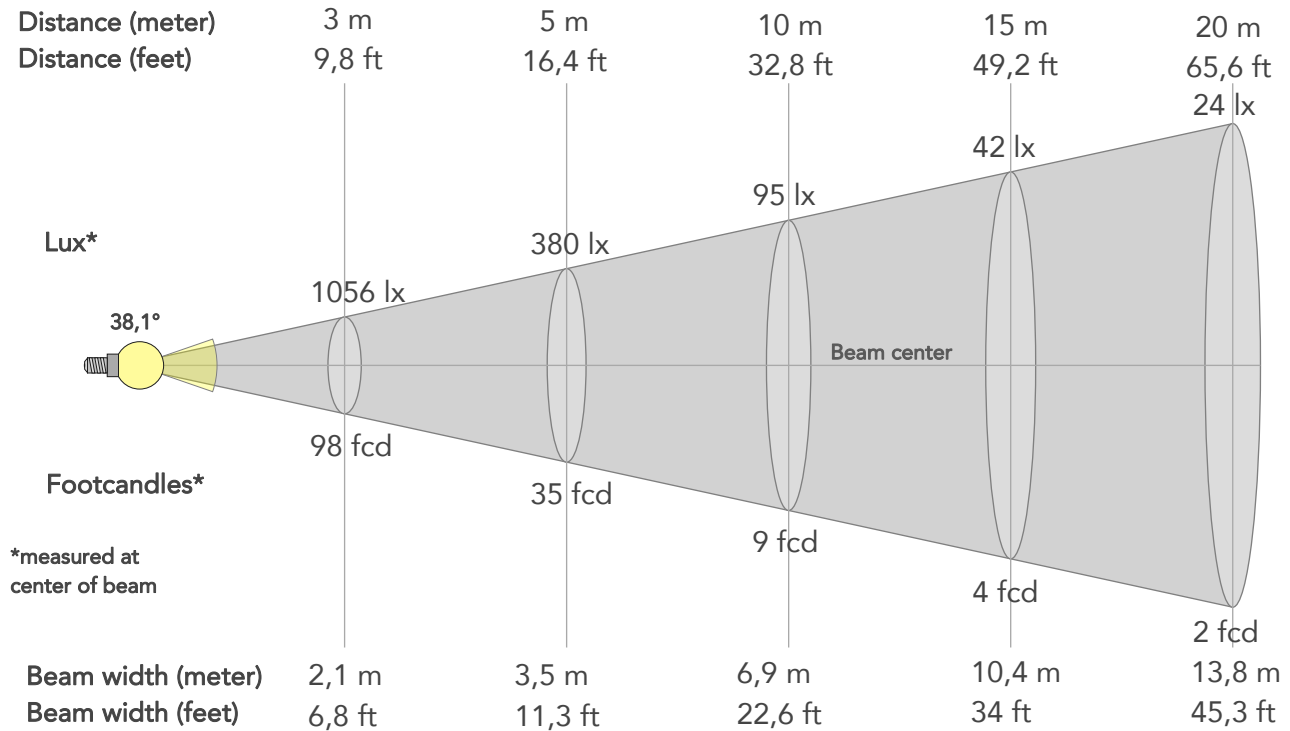
Spectra



BEAM DETAILS



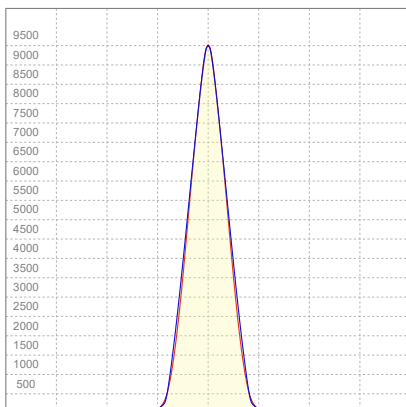
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 38,1° | 67,4° | 79,7° | 99,7% | 98,9% |



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 | 9502lx | 2376lx | 1056lx | 594lx | 380lx | 169lx | 95lx | 42lx | 24lx | 15lx | 11lx | 6lx | 4lx |
| Footcand. | 883fcd | 221fcd | 98fcd | 55fcd | 35fcd | 16fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,7m | 1,4m | 2,1m | 2,8m | 3,5m | 5,2m | 6,9m | 10,4m | 13,8m | 17,3m | 20,7m | 27,6m | 34,5m |
| Beam wid. | 2,3ft | 4,6ft | 6,8ft | 9ft | 11,3ft | 17ft | 22,6ft | 34ft | 45,3ft | 56,6ft | 67,9ft | 90,6ft | 113,2ft |

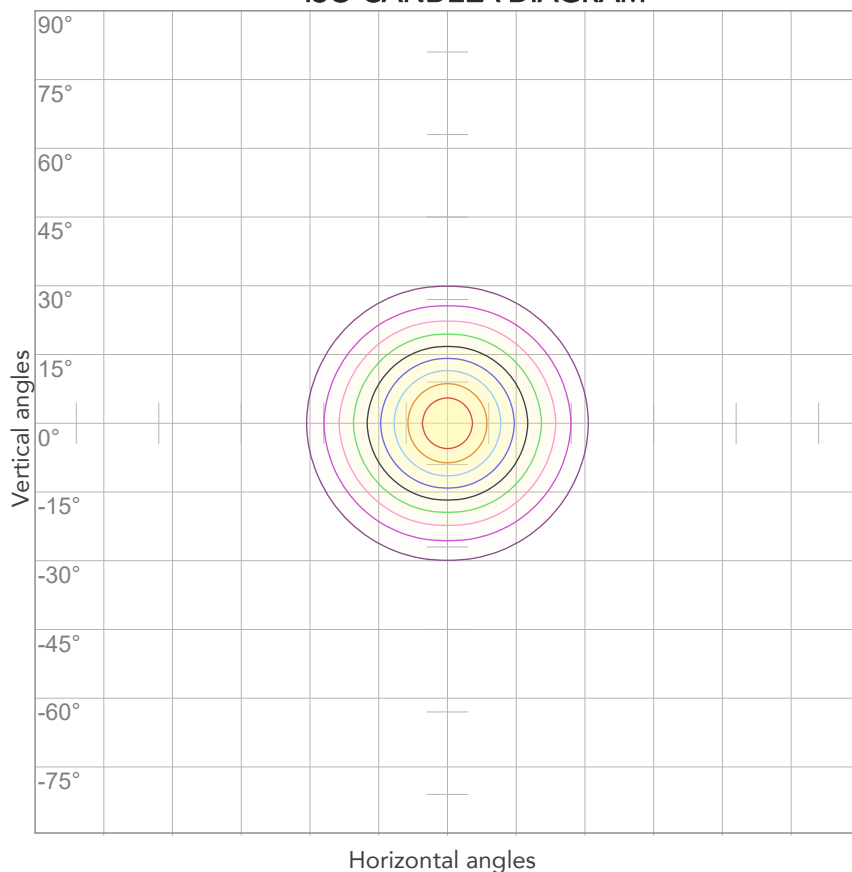
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 231V | 2,17A | 473,1W | 9lm/W |
| Power FC | | | |
| 0,95 | | | |

ISO CANDELA DIAGRAM



| | |
|-----|---------|
| 10% | 950 cd |
| 20% | 1900 cd |
| 30% | 2851 cd |
| 40% | 3801 cd |
| 50% | 4751 cd |
| 60% | 5701 cd |
| 70% | 6651 cd |
| 80% | 7602 cd |

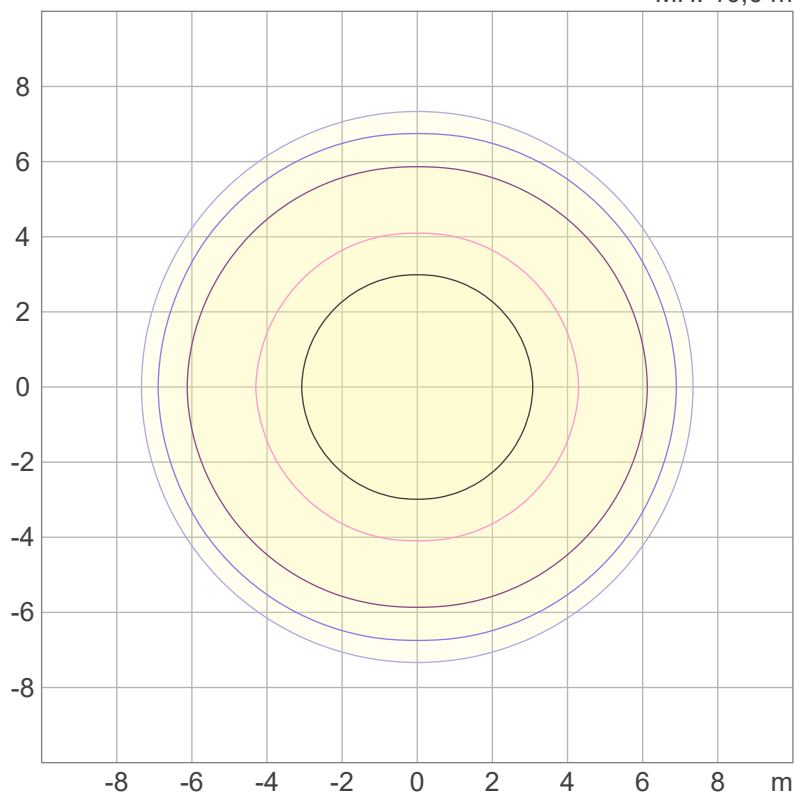
Conditions:

Number of c-planes: 4

Candela at center: 9502 cd

ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

| | |
|-----|---------|
| 3% | 2,85 lx |
| 5% | 4,75 lx |
| 10% | 9,50 lx |
| 30% | 28,5 lx |
| 50% | 47,5 lx |

Conditions:

Number of c-planes: 4

Lux at center: 95,0 lx

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



Total lumen output:

6174 lm

Peak candela output:

10235 cd

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 60° Egg Crate

Target:

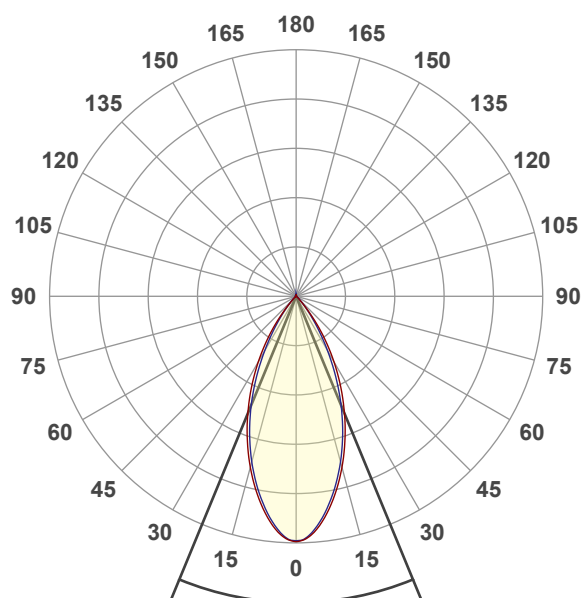
White -

Operator:

Paolo Carvone

Date and time:

17/03/2023 14:42:29

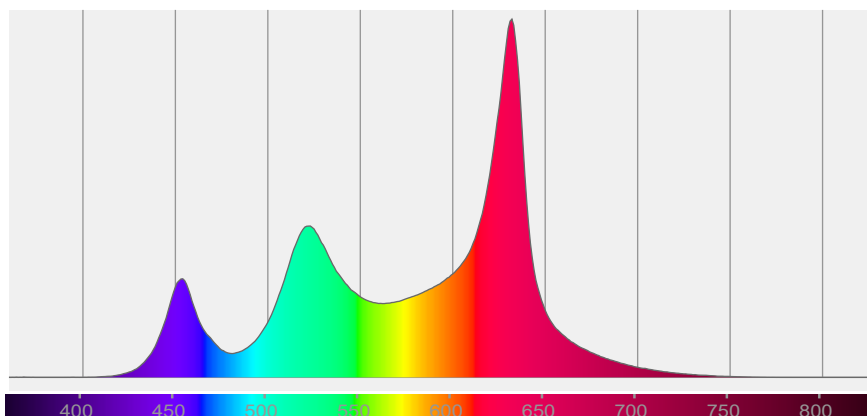


Beam angle 50%: 44,8°

Field angle 10%: 75,6°

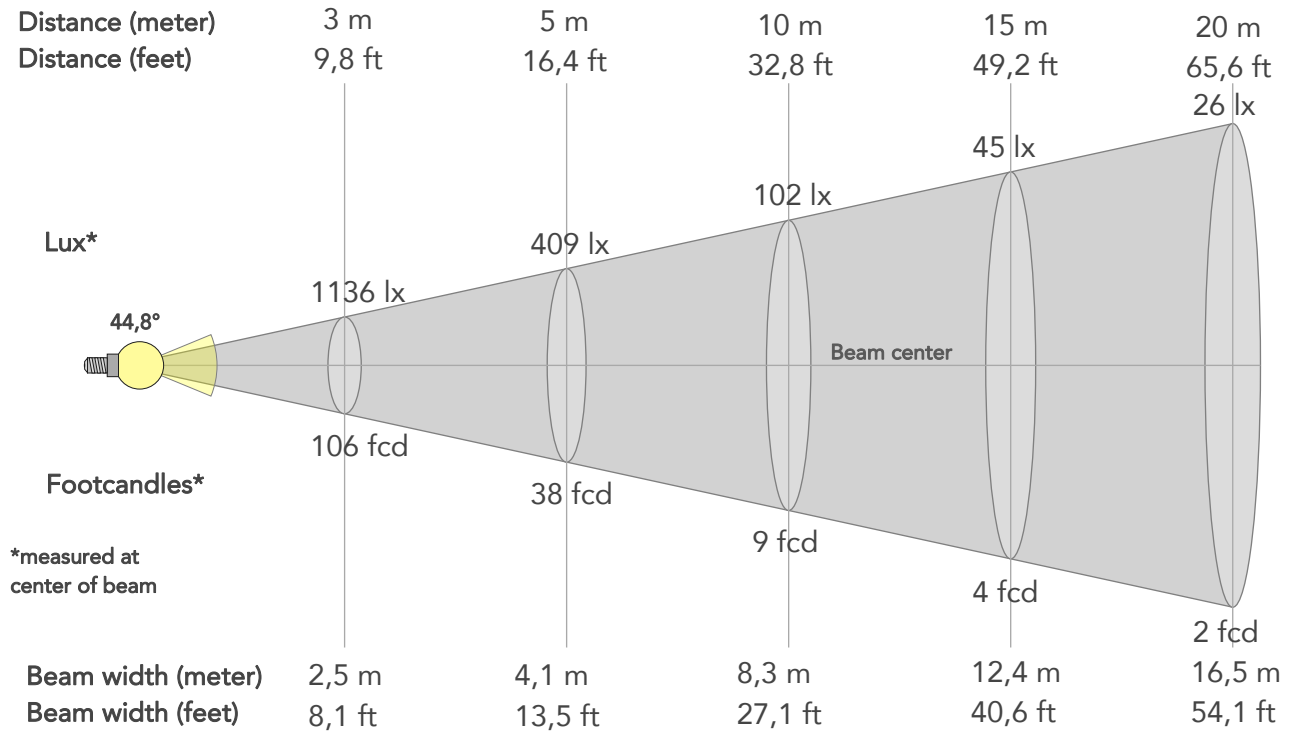
Cut off angle 2.5%: 88,5°

Spectra



BEAM DETAILS

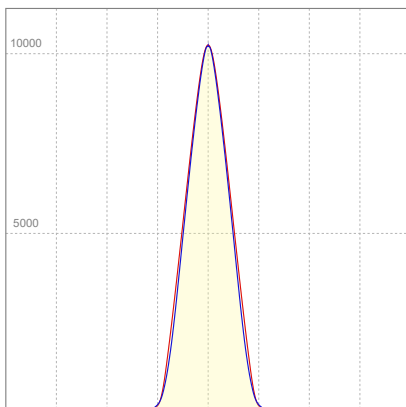
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 44,8° | 75,6° | 88,5° | 99,4% | 97,8% |



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 | 10222lx | 2555lx | 1136lx | 639lx | 409lx | 182lx | 102lx | 45lx | 26lx | 16lx | 11lx | 6lx | 4lx |
| Footcand. | 950fcd | 237fcd | 106fcd | 59fcd | 38fcd | 17fcd | 9fcd | 4fcd | 2fcd | 2fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,3m | 4,1m | 6,2m | 8,3m | 12,4m | 16,5m | 20,6m | 24,8m | 33m | 41,3m |
| Beam wid. | 2,7ft | 5,4ft | 8,1ft | 10,8ft | 13,5ft | 20,3ft | 27,1ft | 40,6ft | 54,1ft | 67,7ft | 81,2ft | 108,2ft | 135,3ft |

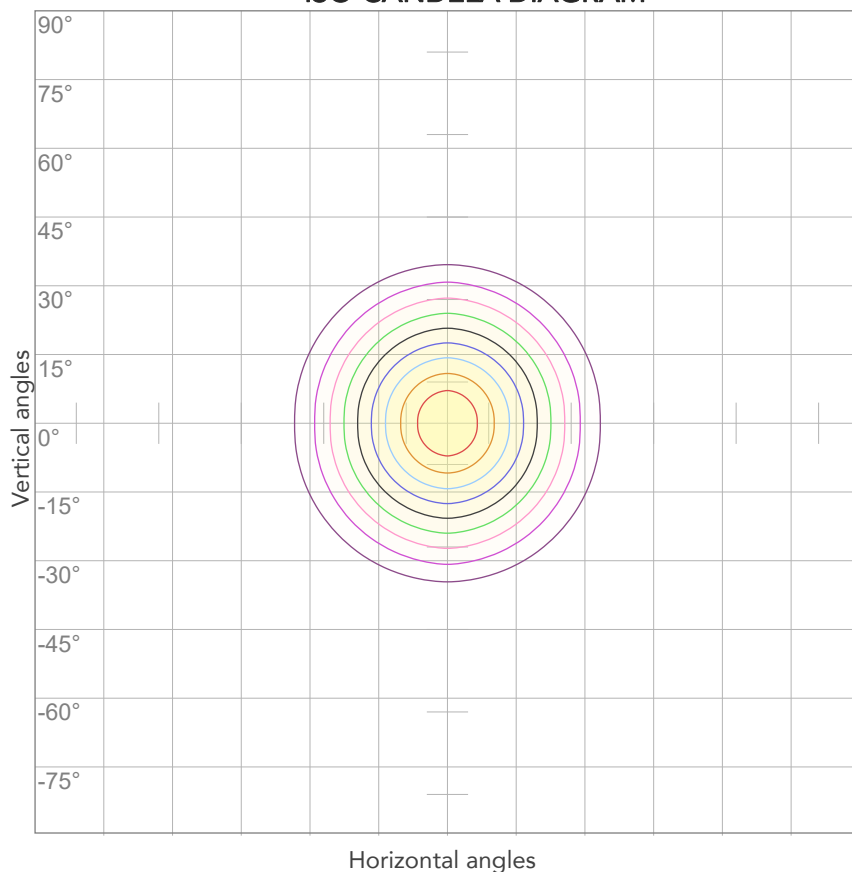
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 218V | 2,28A | 474,3W | 13lm/W |
| Power FC | | | |
| 0,95 | | | |

ISO CANDELA DIAGRAM



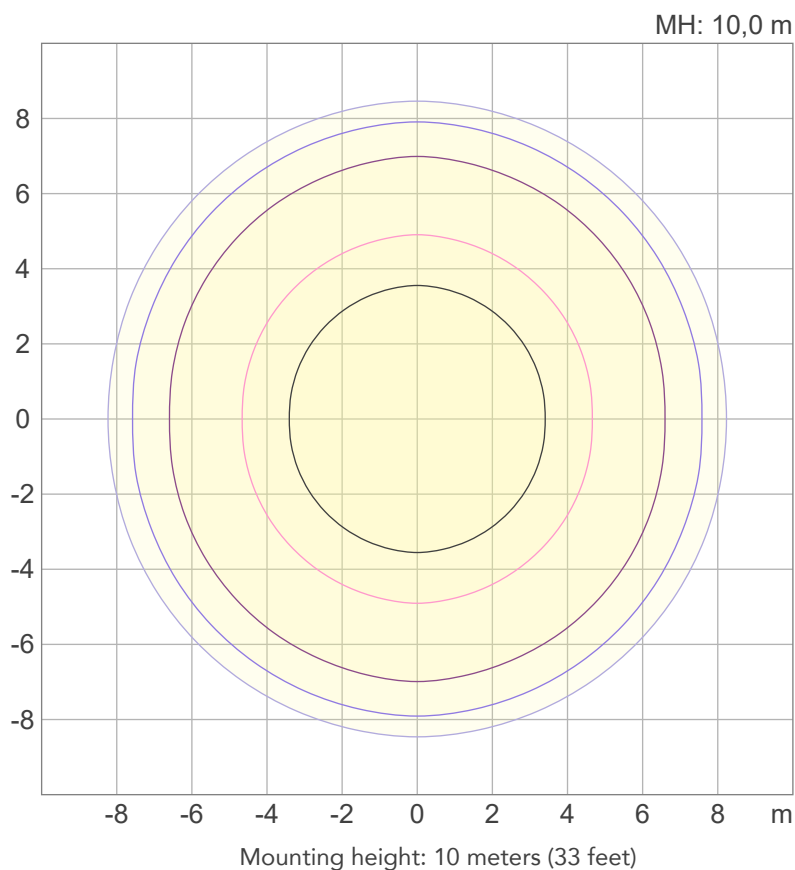
| | |
|-----|---------|
| 10% | 1022 cd |
| 20% | 2044 cd |
| 30% | 3067 cd |
| 40% | 4089 cd |
| 50% | 5111 cd |
| 60% | 6133 cd |
| 70% | 7155 cd |
| 80% | 8177 cd |

Conditions:

Number of c-planes: 4

Candela at center: 10222 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 3,07 lx |
| 5% | 5,11 lx |
| 10% | 10,2 lx |
| 30% | 30,7 lx |
| 50% | 51,1 lx |

Conditions:

Number of c-planes: 4

Lux at center: 102 lx

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



Total lumen output:

4793 lm

Peak candela output:

10250 cd

Light quality:

CRI: 89,1

Color temperature:

2701 K

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 30° Egg Crate

Target:

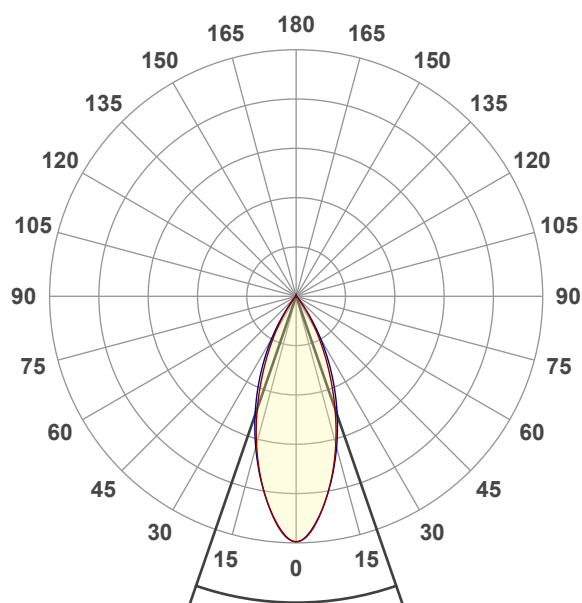
2800K -

Operator:

Paolo Carvone

Date and time:

17/03/2023 13:12:18

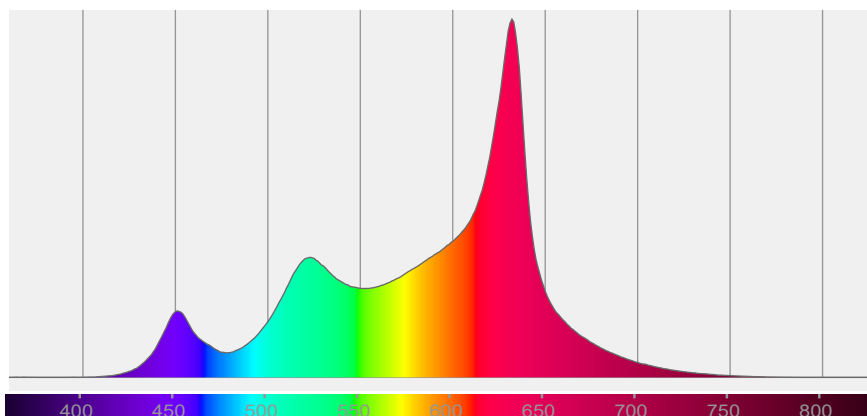


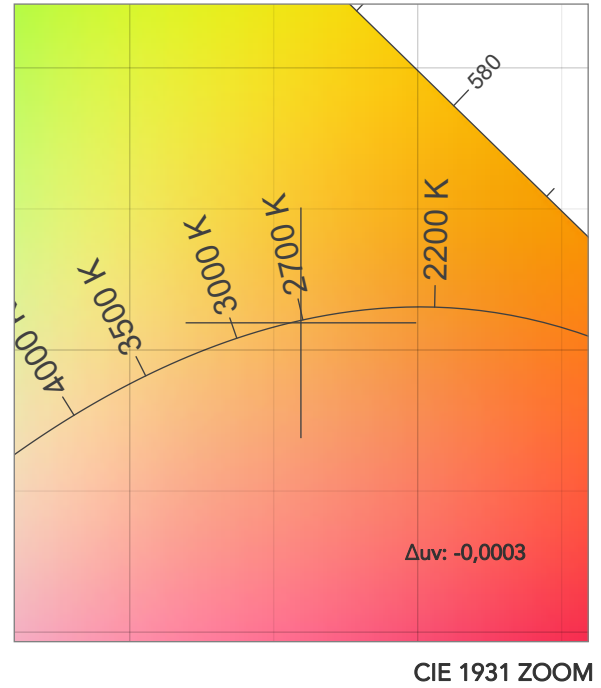
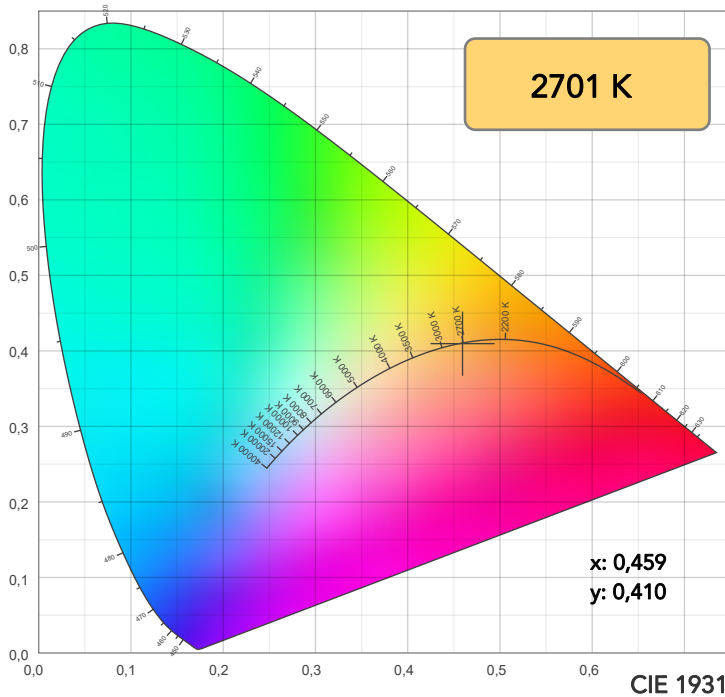
Beam angle 50%: 38,1°

Field angle 10%: 67,5°

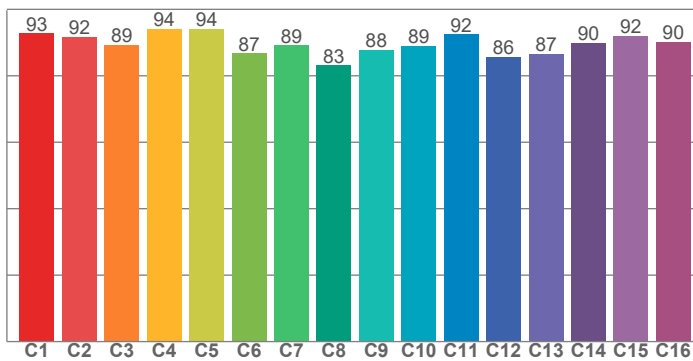
Cut off angle 2.5%: 80,4°

Spectra

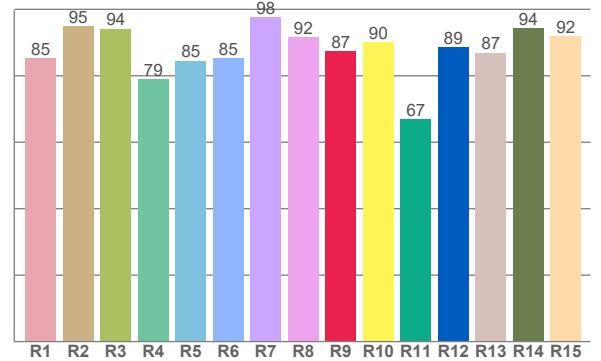




TM30: 90,4



CRI: 89,1 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85,3 | 94,9 | 94,2 | 79,0 | 84,6 | 85,2 | 97,7 | 91,6 | 87,4 | 90,0 | 66,9 | 88,6 | 86,9 | 94,3 | 91,9 |

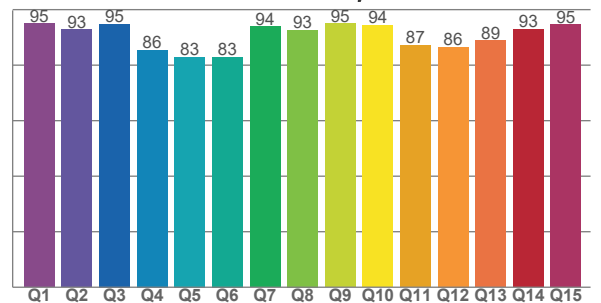
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 92,8 | 91,7 | 89,3 | 94,1 | 94,0 | 86,8 | 89,1 | 83,1 | 87,8 | 88,9 | 92,5 | 85,8 | 86,6 | 89,9 | 92,0 | 90,1 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,0 | 92,8 | 94,8 | 85,5 | 82,9 | 82,9 | 93,9 | 92,7 | 95,0 | 94,4 | 87,2 | 86,5 | 88,8 | 92,9 | 94,6 |

CQS: 89,4



COLOR PARAMETERS

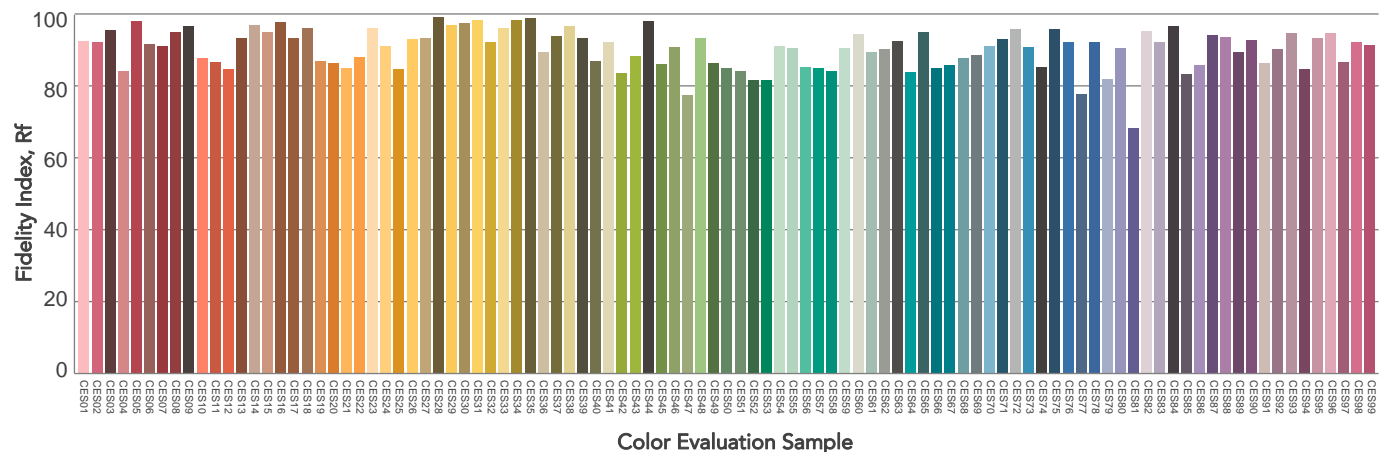
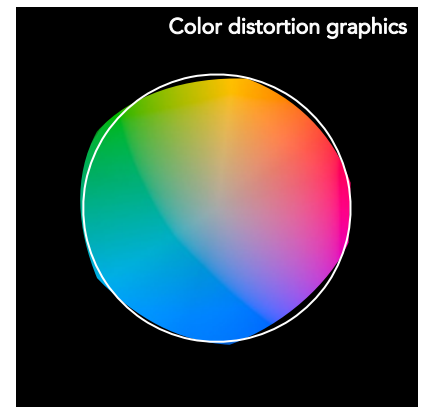
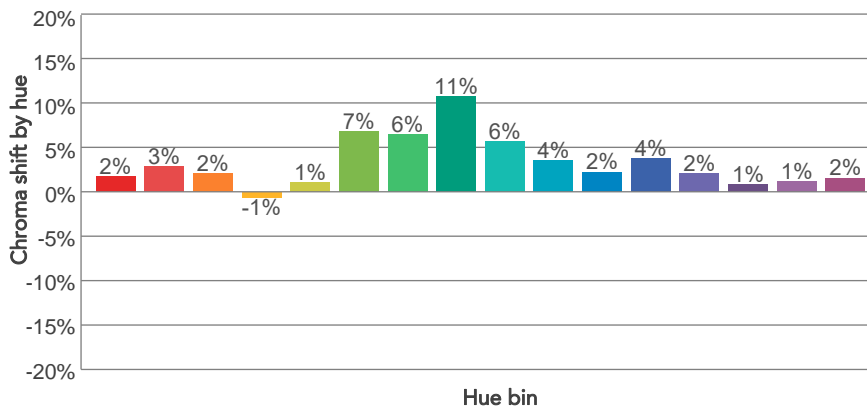
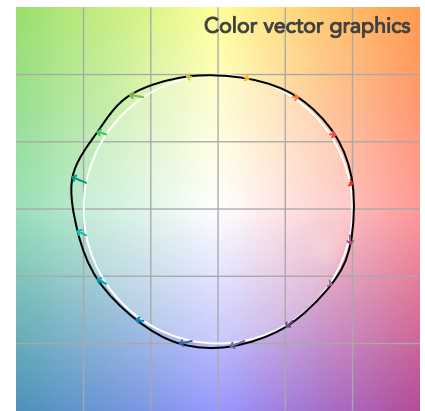
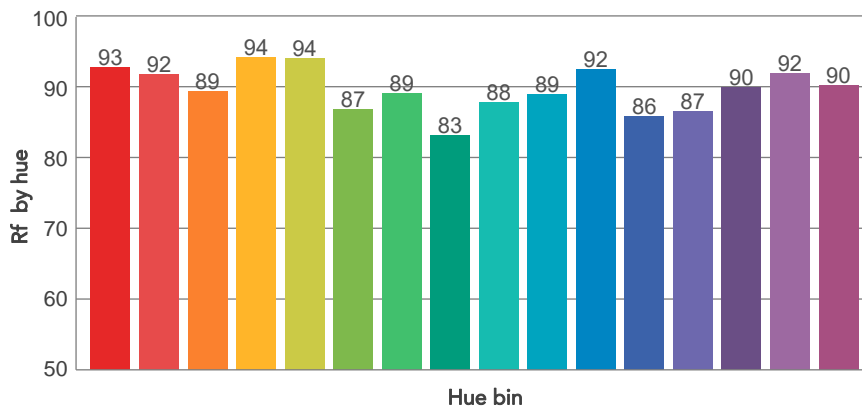
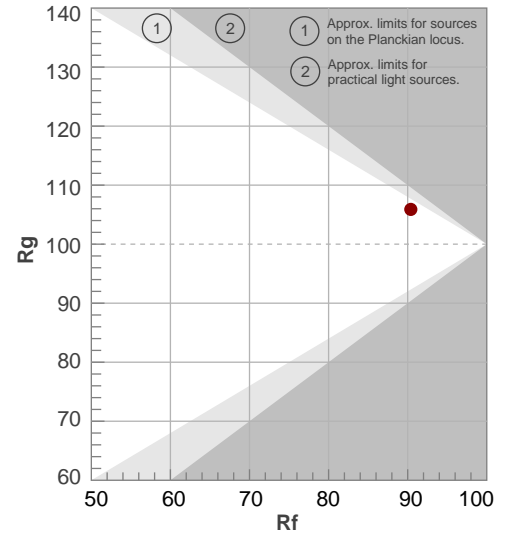
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2701 K | 89,1 | 87,4 | 90,4 | 105,9 | 89,4 | 76 | 0,459 | 0,410 | -0,0003 |

TM30 DETAILS

Rf 90,4
Fidelity index Rf

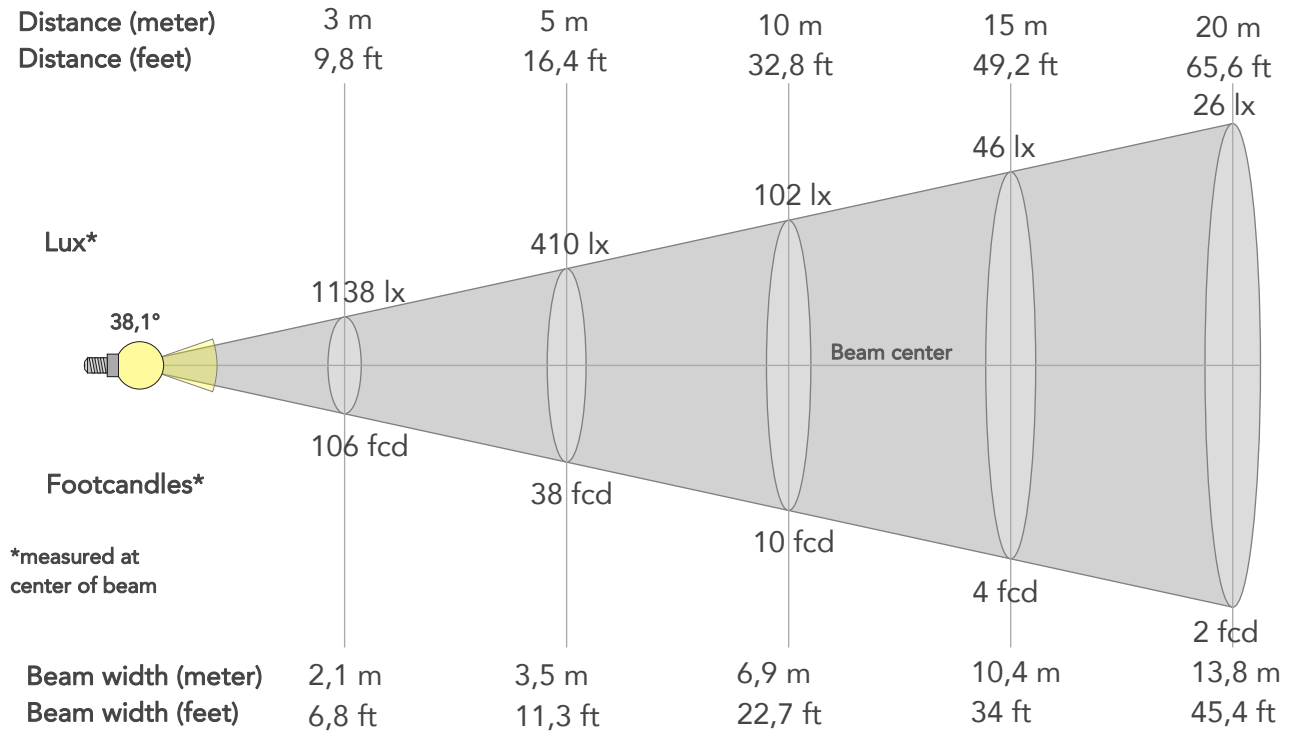
Rg 105,9
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 93 | 2% | -1% |
| 2 | 92 | 3% | -3% |
| 3 | 89 | 2% | -3% |
| 4 | 94 | -1% | -3% |
| 5 | 94 | 1% | 4% |
| 6 | 87 | 7% | 7% |
| 7 | 89 | 6% | 2% |
| 8 | 83 | 11% | -2% |
| 9 | 88 | 6% | -4% |
| 10 | 89 | 4% | -6% |
| 11 | 92 | 2% | -5% |
| 12 | 86 | 4% | -8% |
| 13 | 87 | 2% | -11% |
| 14 | 90 | 1% | -6% |
| 15 | 92 | 1% | 0% |
| 16 | 90 | 2% | -6% |



BEAM DETAILS

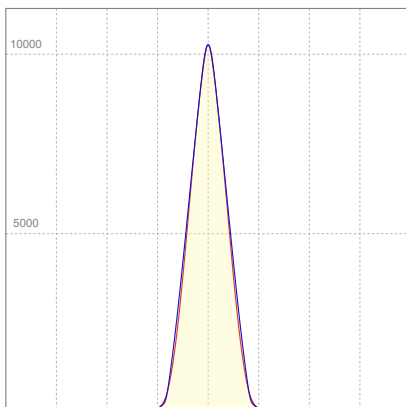
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 38,1° | 67,5° | 80,4° | 99,5% | 98,4% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 10244lx | 2561lx | 1138lx | 640lx | 410lx | 182lx | 102lx | 46lx | 26lx | 16lx | 11lx | 6lx | 4lx |
| Footcand. | 952fcd | 238fcd | 106fcd | 59fcd | 38fcd | 17fcd | 10fcd | 4fcd | 2fcd | 2fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,7m | 1,4m | 2,1m | 2,8m | 3,5m | 5,2m | 6,9m | 10,4m | 13,8m | 17,3m | 20,7m | 27,7m | 34,6m |
| Beam wid. | 2,3ft | 4,6ft | 6,8ft | 9,1ft | 11,3ft | 17ft | 22,7ft | 34ft | 45,4ft | 56,7ft | 68ft | 90,7ft | 113,4ft |

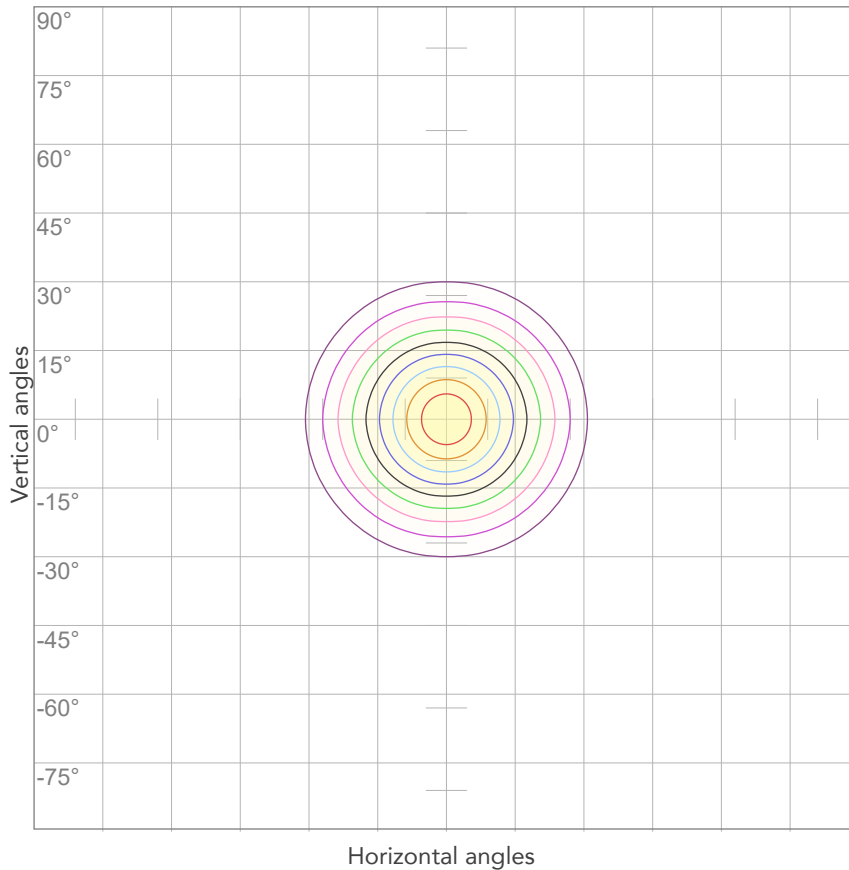
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 231V | 2,18A | 475,9W | 10lm/W |

ISO CANDELA DIAGRAM



| | |
|-----|---------|
| 10% | 1024 cd |
| 20% | 2049 cd |
| 30% | 3073 cd |
| 40% | 4098 cd |
| 50% | 5122 cd |
| 60% | 6147 cd |
| 70% | 7171 cd |
| 80% | 8195 cd |

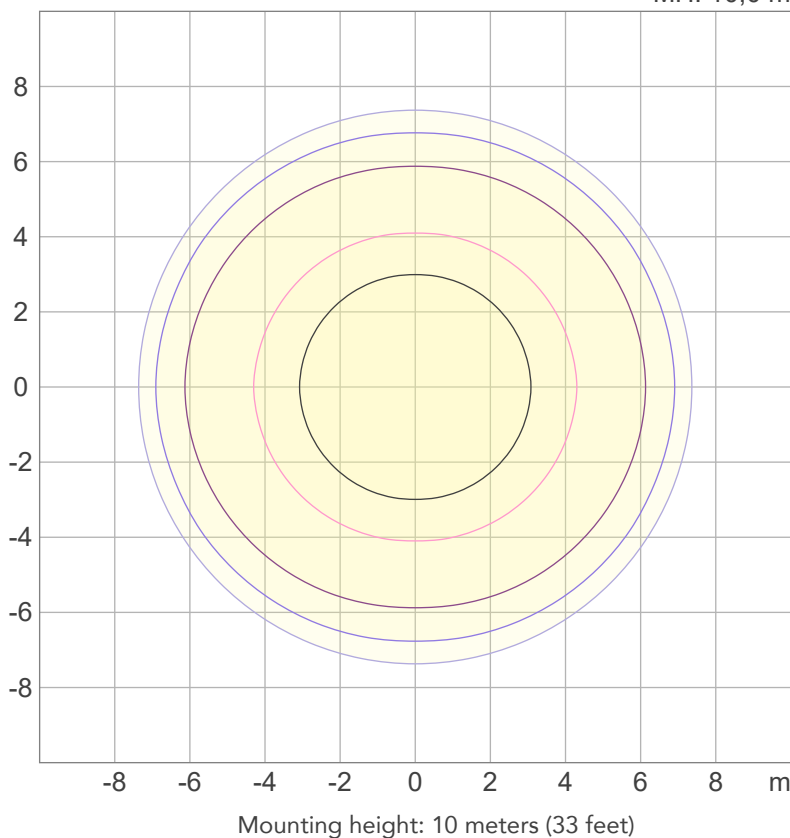
Conditions:

Number of c-planes: 4

Candela at center: 10244 cd

ISO LUX DIAGRAM

MH: 10,0 m



| | |
|-----|---------|
| 3% | 3,07 lx |
| 5% | 5,12 lx |
| 10% | 10,2 lx |
| 30% | 30,7 lx |
| 50% | 51,2 lx |

Conditions:

Number of c-planes: 4

Lux at center: 102 lx

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



Total lumen output:

6617 lm

Peak candela output:

10941 cd

Light quality:

CRI: 89,1

Color temperature:

2707 K

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 60° Egg Crate

Target:

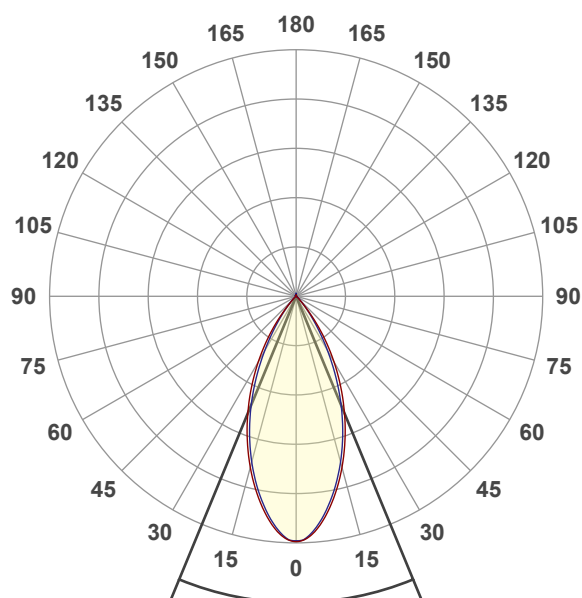
2800K -

Operator:

Paolo Carvone

Date and time:

17/03/2023 14:04:52

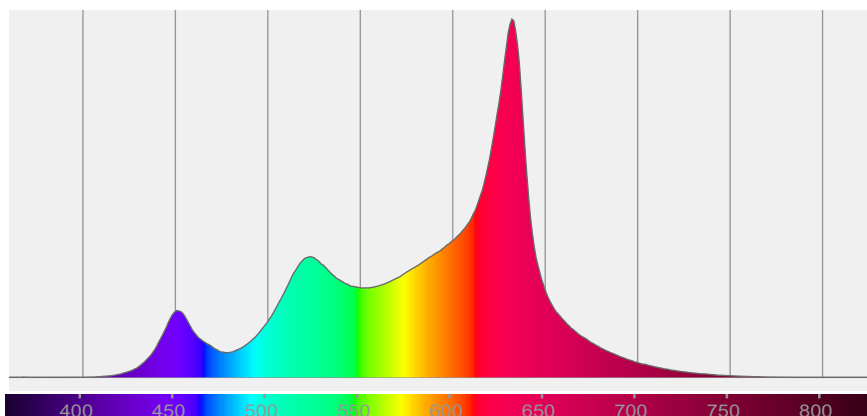


Beam angle 50%: 44,9°

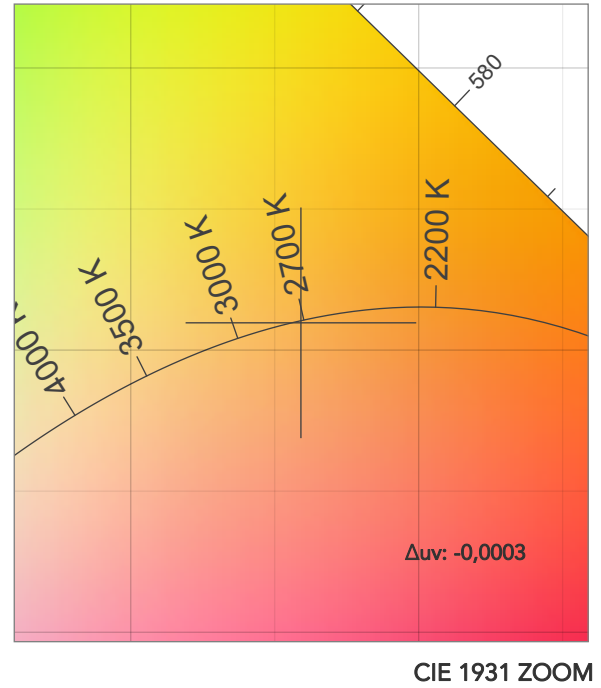
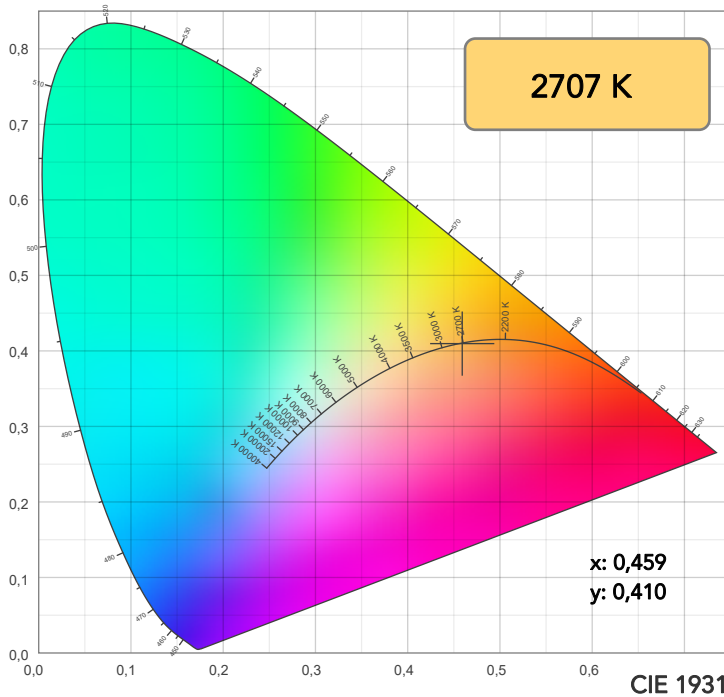
Field angle 10%: 75,6°

Cut off angle 2.5%: 88,6°

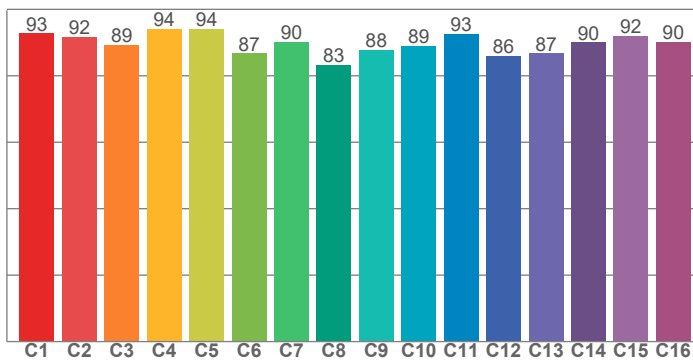
Spectra



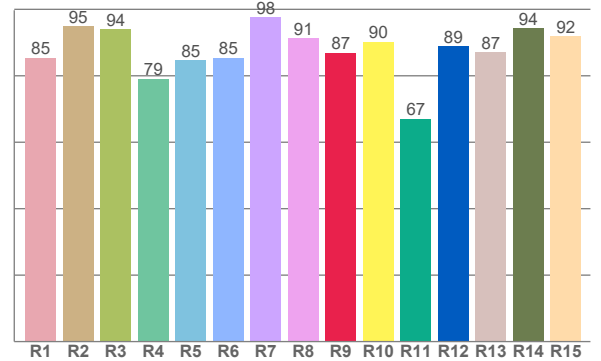
COLOR DETAILS



TM30: 90,5



CRI: 89,1 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85,4 | 95,0 | 94,0 | 79,1 | 84,7 | 85,4 | 97,5 | 91,3 | 87,0 | 90,2 | 67,1 | 88,8 | 87,0 | 94,2 | 91,9 |

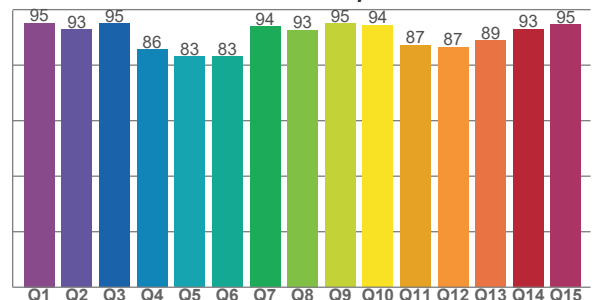
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 92,8 | 91,7 | 89,3 | 94,2 | 94,1 | 86,7 | 90,2 | 83,2 | 87,9 | 89,0 | 92,6 | 85,9 | 86,7 | 90,1 | 92,0 | 90,2 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,1 | 92,9 | 95,0 | 85,7 | 83,0 | 83,0 | 93,9 | 92,7 | 94,9 | 94,4 | 87,2 | 86,5 | 88,8 | 93,0 | 94,6 |

CQS: 89,5



COLOR PARAMETERS

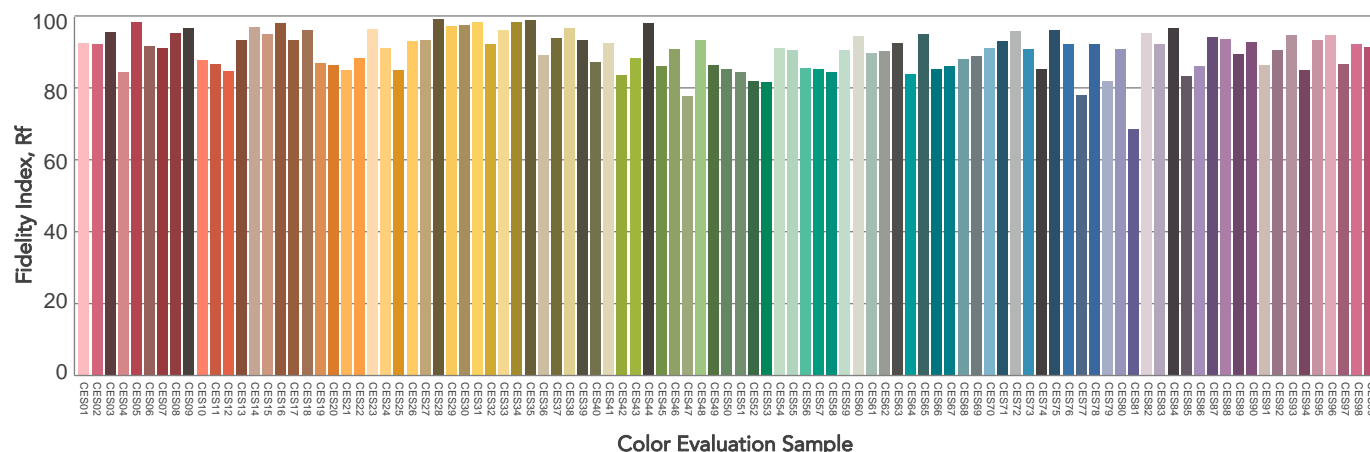
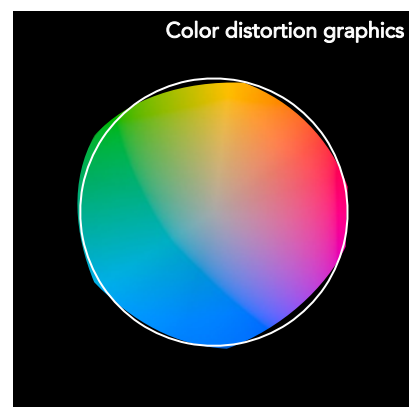
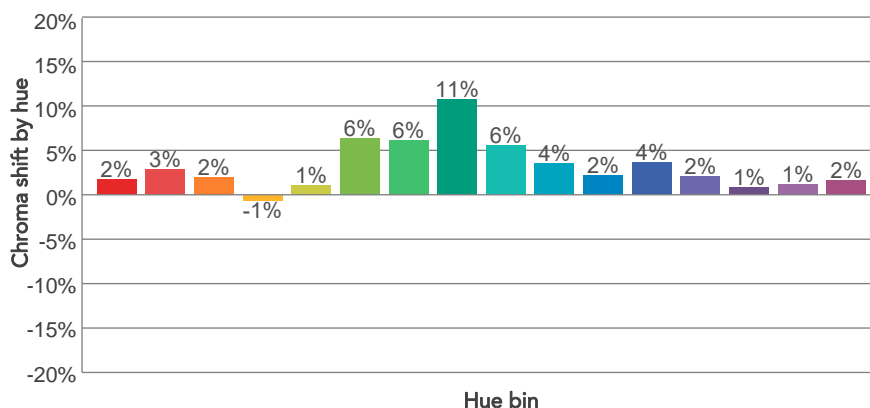
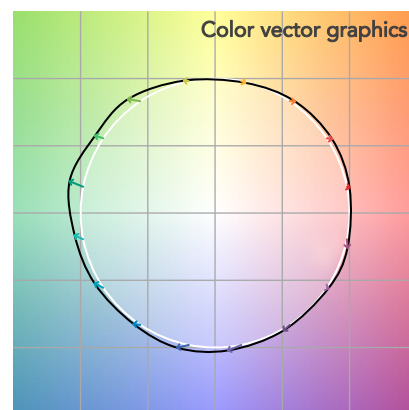
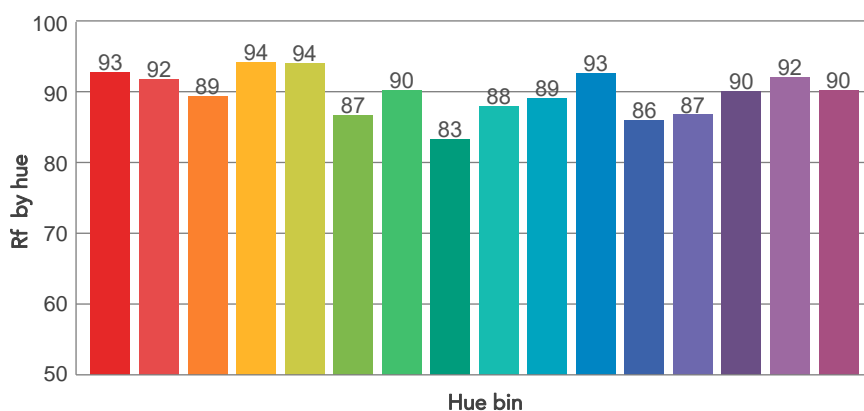
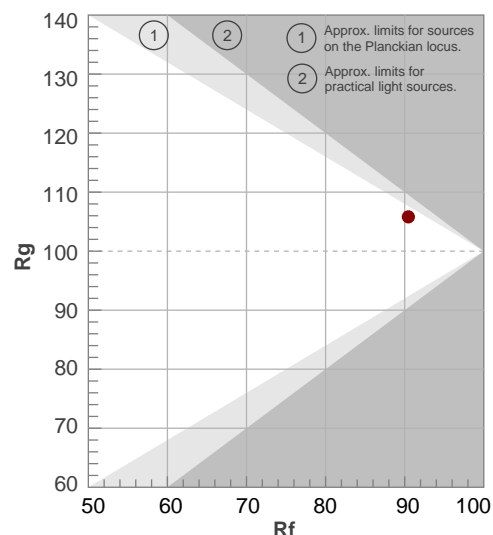
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2707 K | 89,1 | 87,0 | 90,5 | 105,8 | 89,5 | 76 | 0,459 | 0,410 | -0,0003 |

TM30 DETAILS

Rf 90,5
Fidelity index Rf

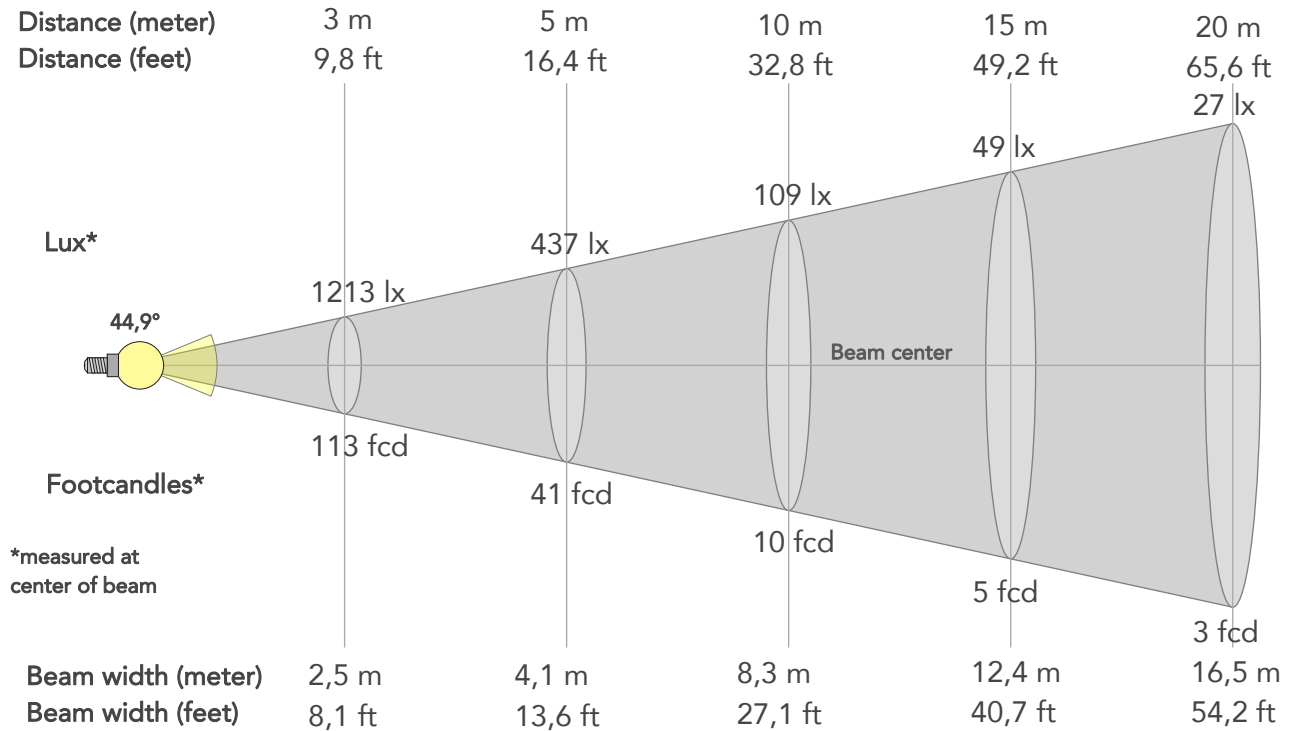
Rg 105,8
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 93 | 2% | -1% |
| 2 | 92 | 3% | -3% |
| 3 | 89 | 2% | -3% |
| 4 | 94 | -1% | -3% |
| 5 | 94 | 1% | 4% |
| 6 | 87 | 6% | 7% |
| 7 | 90 | 6% | 2% |
| 8 | 83 | 11% | -2% |
| 9 | 88 | 6% | -4% |
| 10 | 89 | 4% | -6% |
| 11 | 93 | 2% | -5% |
| 12 | 86 | 4% | -8% |
| 13 | 87 | 2% | -10% |
| 14 | 90 | 1% | -6% |
| 15 | 92 | 1% | 0% |
| 16 | 90 | 2% | -6% |



BEAM DETAILS

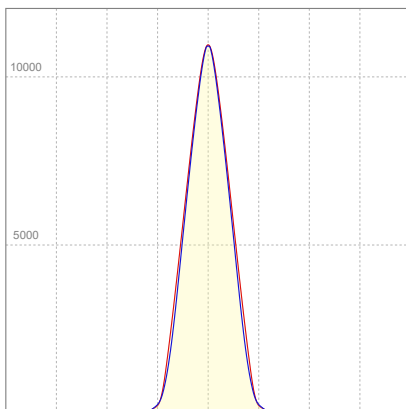
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 44,9° | 75,6° | 88,6° | 99,3% | 97,7% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 10920lx | 2730lx | 1213lx | 682lx | 437lx | 194lx | 109lx | 49lx | 27lx | 17lx | 12lx | 7lx | 4lx |
| Footcand. | 1014fcd | 254fcd | 113fcd | 63fcd | 41fcd | 18fcd | 10fcd | 5fcd | 3fcd | 2fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,3m | 4,1m | 6,2m | 8,3m | 12,4m | 16,5m | 20,7m | 24,8m | 33,1m | 41,3m |
| Beam wid. | 2,7ft | 5,5ft | 8,1ft | 10,8ft | 13,6ft | 20,3ft | 27,1ft | 40,7ft | 54,2ft | 67,8ft | 81,3ft | 108,4ft | 135,5ft |

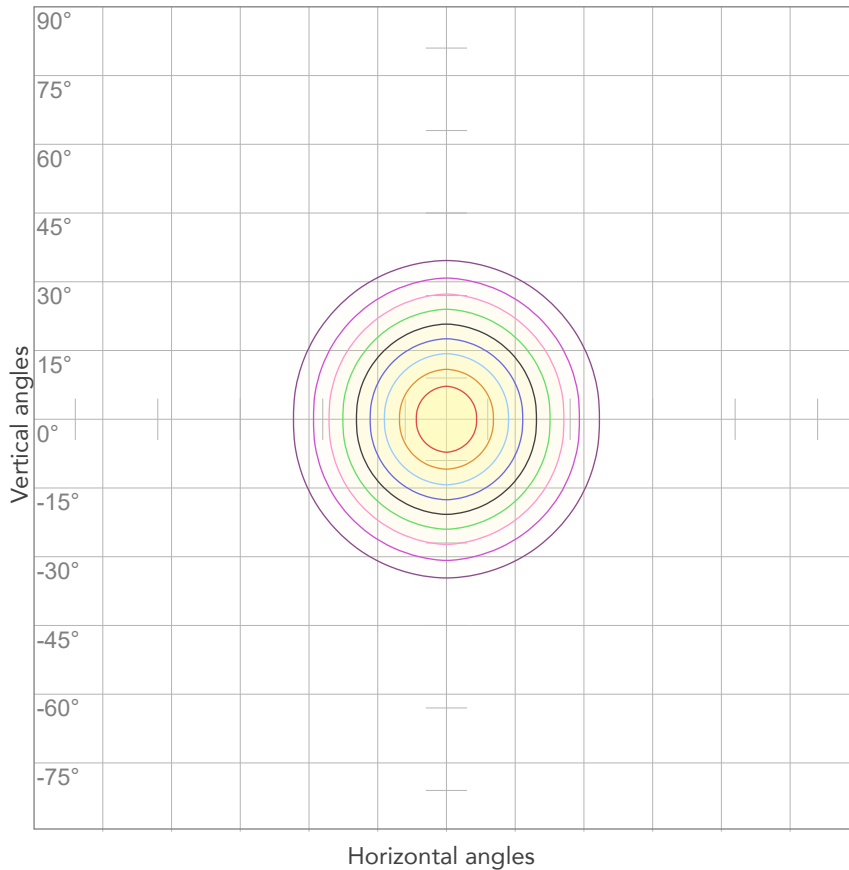
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 231V | 2,17A | 474,8W | 14lm/W |

ISO CANDELA DIAGRAM



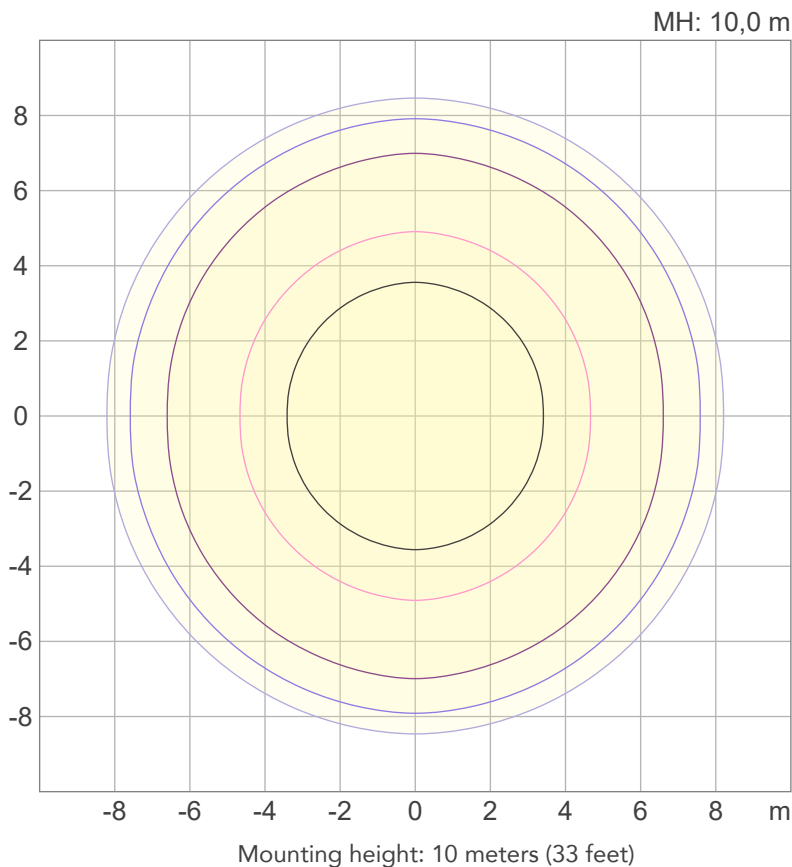
| | |
|-----|---------|
| 10% | 1092 cd |
| 20% | 2184 cd |
| 30% | 3276 cd |
| 40% | 4368 cd |
| 50% | 5460 cd |
| 60% | 6552 cd |
| 70% | 7644 cd |
| 80% | 8736 cd |

Conditions:

Number of c-planes: 4

Candela at center: 10920 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 3,28 lx |
| 5% | 5,46 lx |
| 10% | 10,9 lx |
| 30% | 32,8 lx |
| 50% | 54,6 lx |

Conditions:

Number of c-planes: 4

Lux at center: 109 lx

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



Total lumen output:

4832 lm

Peak candela output:

10267 cd

Light quality:

CRI: 92,0

Color temperature:

3122 K

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 30° Egg Crate

Target:

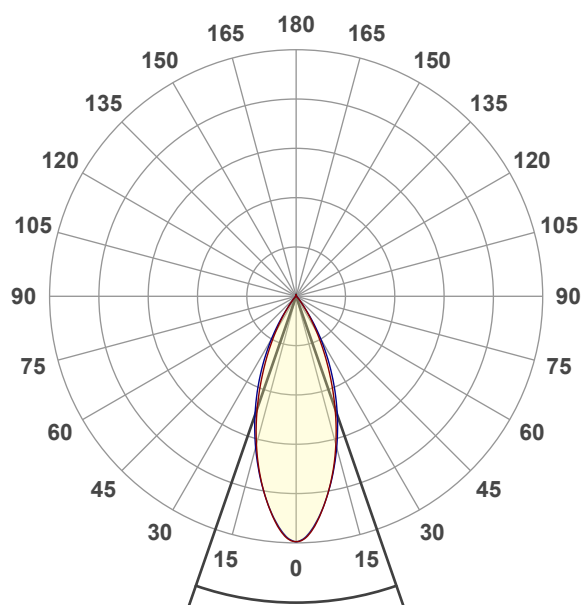
3200K -

Operator:

Paolo Carvone

Date and time:

17/03/2023 13:15:11

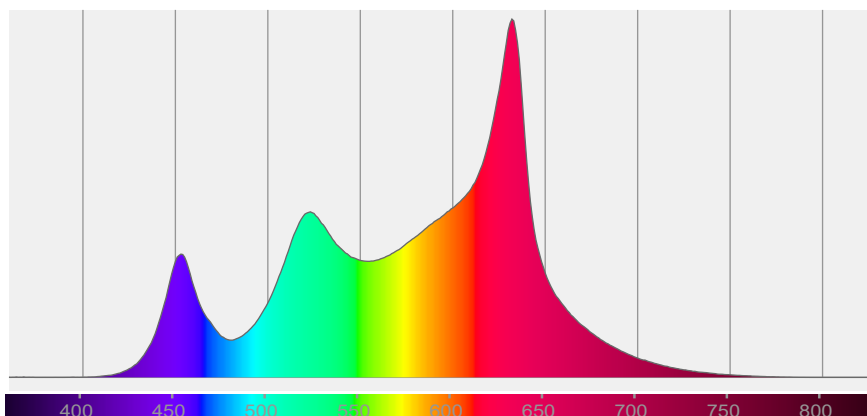


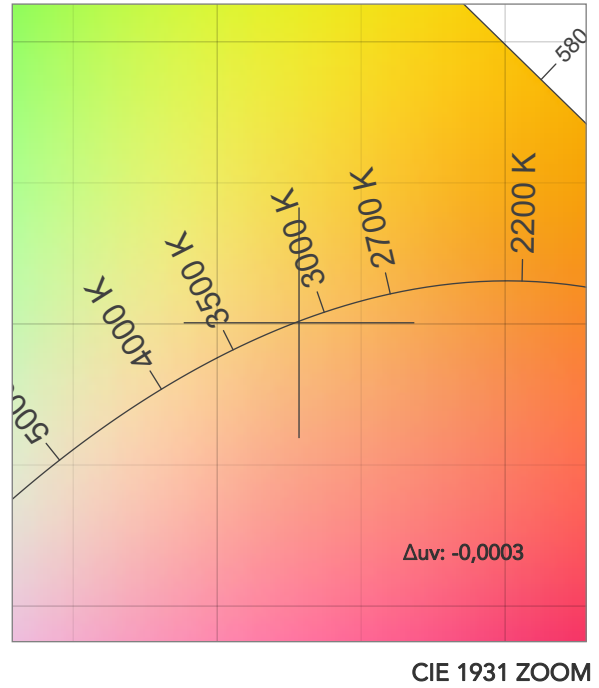
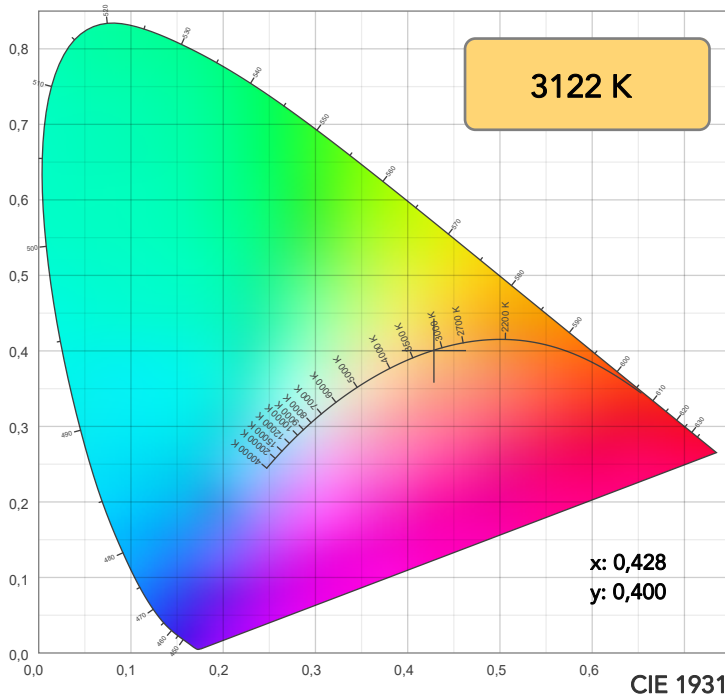
Beam angle 50%: 38,2°

Field angle 10%: 67,7°

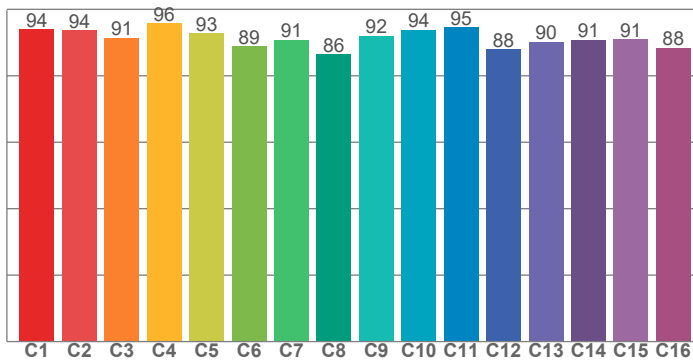
Cut off angle 2.5%: 81°

Spectra

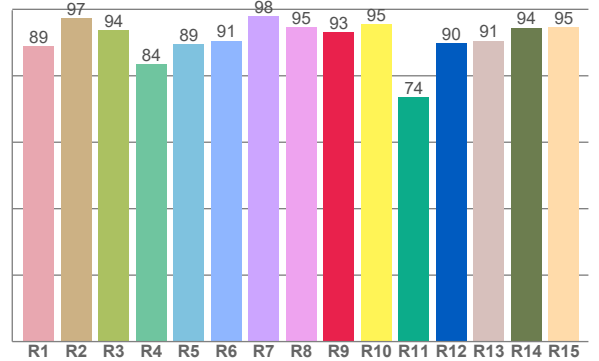




TM30: 92,1



CRI: 92,0 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 89,0 | 97,4 | 93,7 | 83,6 | 89,4 | 90,6 | 97,9 | 94,7 | 93,1 | 95,4 | 73,5 | 89,7 | 90,5 | 94,4 | 94,6 |

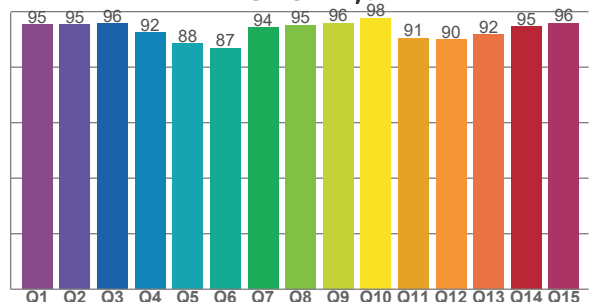
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,9 | 93,6 | 91,4 | 95,8 | 92,8 | 88,9 | 90,8 | 86,4 | 92,1 | 93,8 | 94,6 | 87,9 | 90,1 | 90,7 | 91,0 | 88,5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,3 | 95,3 | 95,7 | 92,5 | 88,5 | 86,9 | 94,3 | 95,2 | 96,0 | 97,6 | 90,5 | 89,9 | 91,7 | 94,6 | 96,0 |

CQS: 92,5



COLOR PARAMETERS

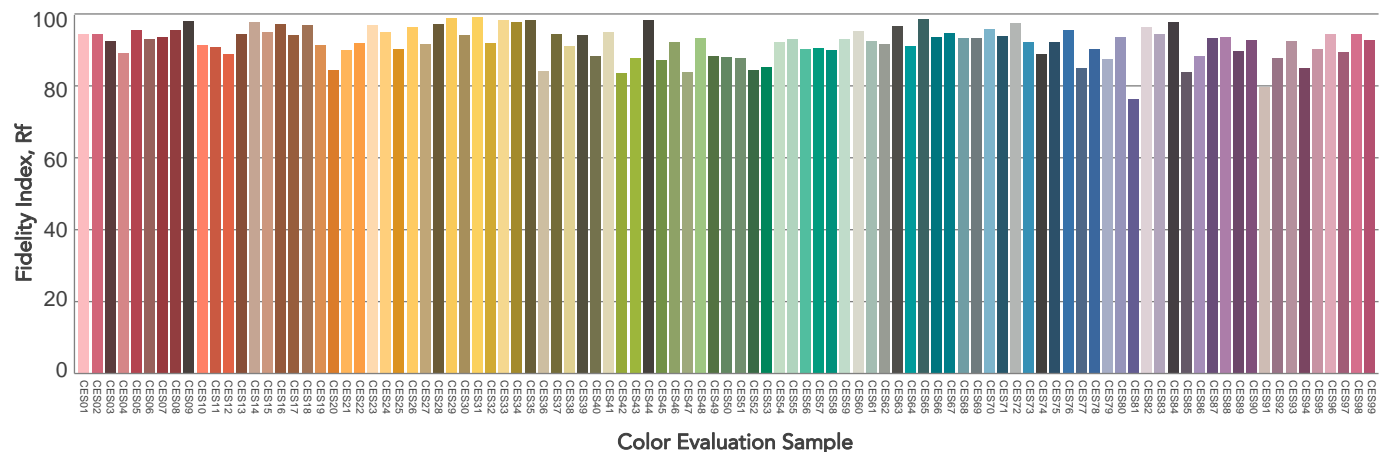
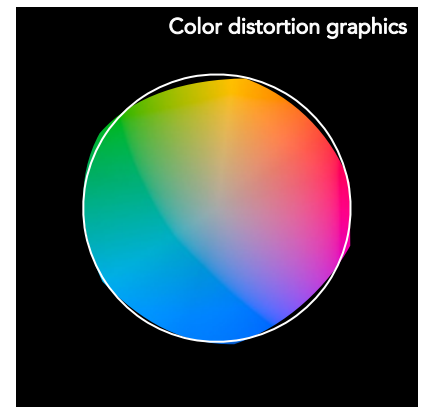
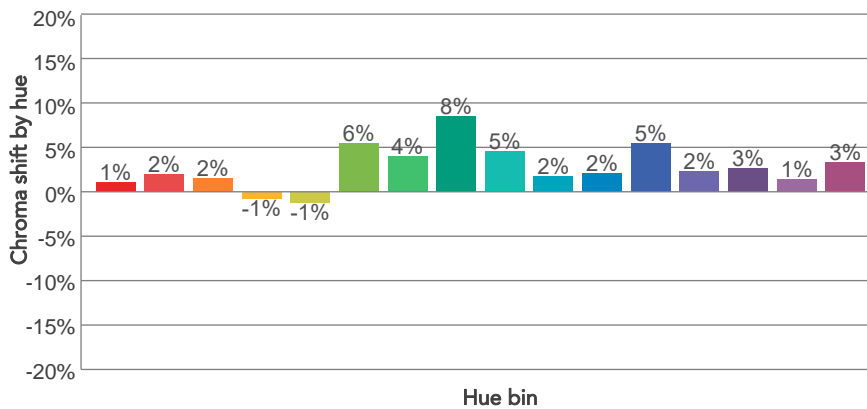
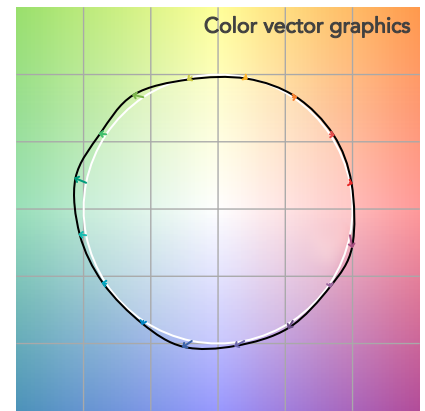
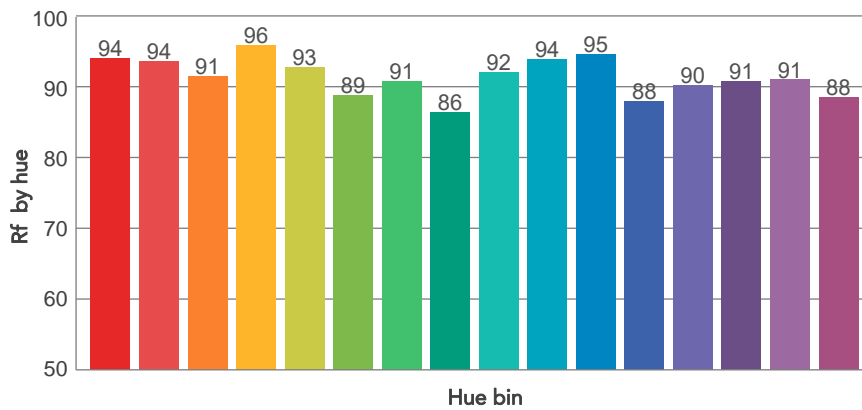
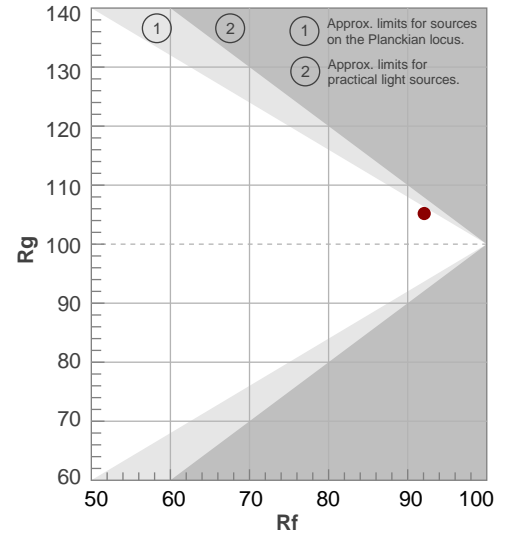
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 3122 K | 92,0 | 93,1 | 92,1 | 105,2 | 92,5 | 83 | 0,428 | 0,400 | -0,0003 |

TM30 DETAILS

Rf 92,1
Fidelity index Rf

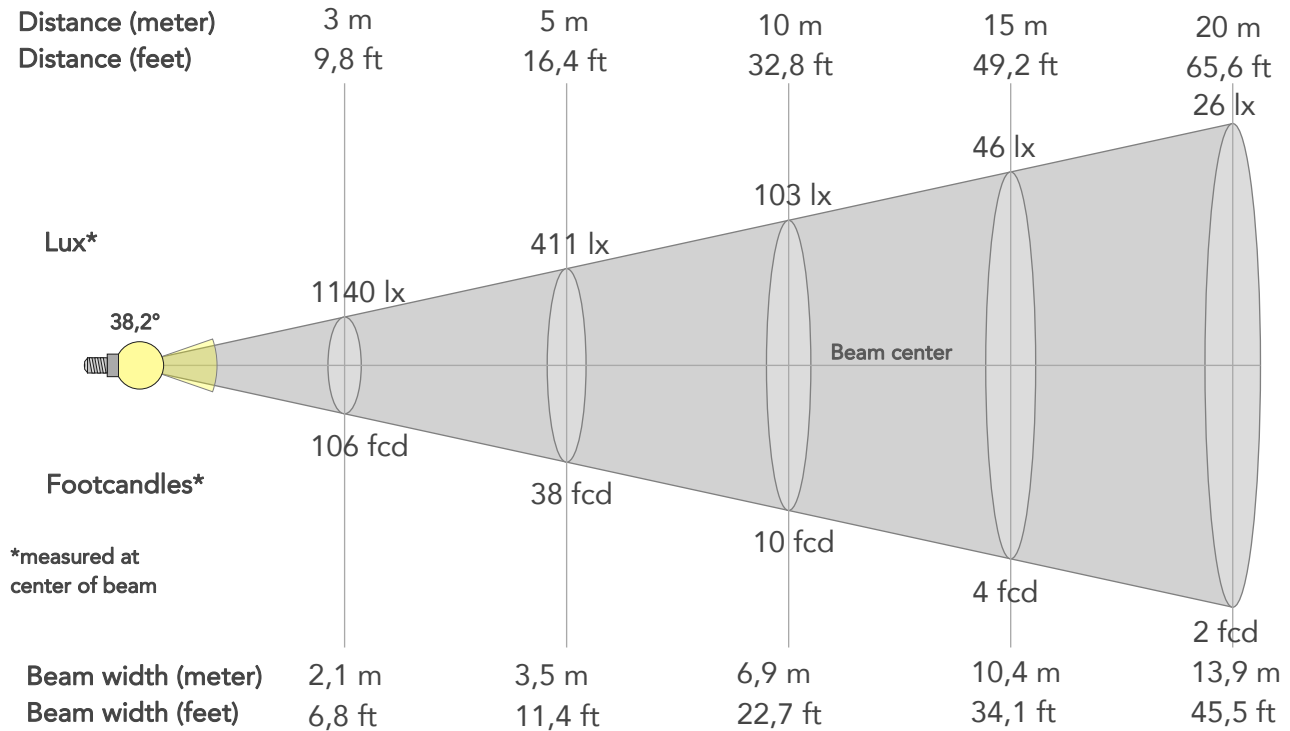
Rg 105,2
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 1% | -1% |
| 2 | 94 | 2% | -2% |
| 3 | 91 | 2% | -2% |
| 4 | 96 | -1% | -2% |
| 5 | 93 | -1% | 3% |
| 6 | 89 | 6% | 5% |
| 7 | 91 | 4% | 2% |
| 8 | 86 | 8% | -2% |
| 9 | 92 | 5% | -2% |
| 10 | 94 | 2% | -2% |
| 11 | 95 | 2% | 1% |
| 12 | 88 | 5% | -5% |
| 13 | 90 | 2% | -7% |
| 14 | 91 | 3% | -5% |
| 15 | 91 | 1% | -1% |
| 16 | 88 | 3% | -8% |



BEAM DETAILS

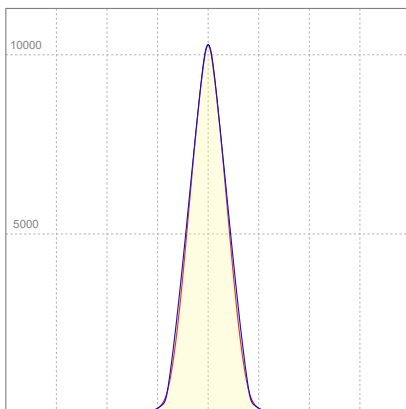
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 38,2° | 67,7° | 81° | 99,4% | 98,3% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 10264lx | 2566lx | 1140lx | 641lx | 411lx | 182lx | 103lx | 46lx | 26lx | 16lx | 11lx | 6lx | 4lx |
| Footcand. | 954fcd | 238fcd | 106fcd | 60fcd | 38fcd | 17fcd | 10fcd | 4fcd | 2fcd | 2fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,7m | 1,4m | 2,1m | 2,8m | 3,5m | 5,2m | 6,9m | 10,4m | 13,9m | 17,3m | 20,8m | 27,7m | 34,6m |
| Beam wid. | 2,3ft | 4,6ft | 6,8ft | 9,1ft | 11,4ft | 17ft | 22,7ft | 34,1ft | 45,5ft | 56,8ft | 68,2ft | 90,9ft | 113,6ft |

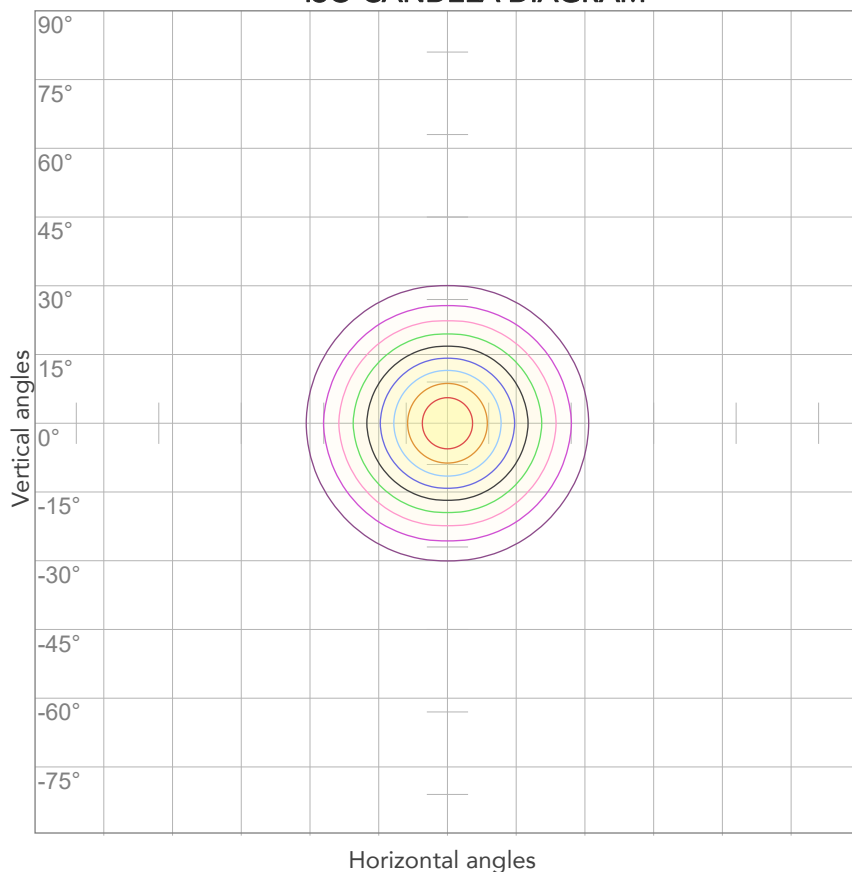
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 231V | 2,17A | 475,9W | 10lm/W |

ISO CANDELA DIAGRAM



| | |
|-----|---------|
| 10% | 1026 cd |
| 20% | 2053 cd |
| 30% | 3079 cd |
| 40% | 4105 cd |
| 50% | 5132 cd |
| 60% | 6158 cd |
| 70% | 7184 cd |
| 80% | 8211 cd |

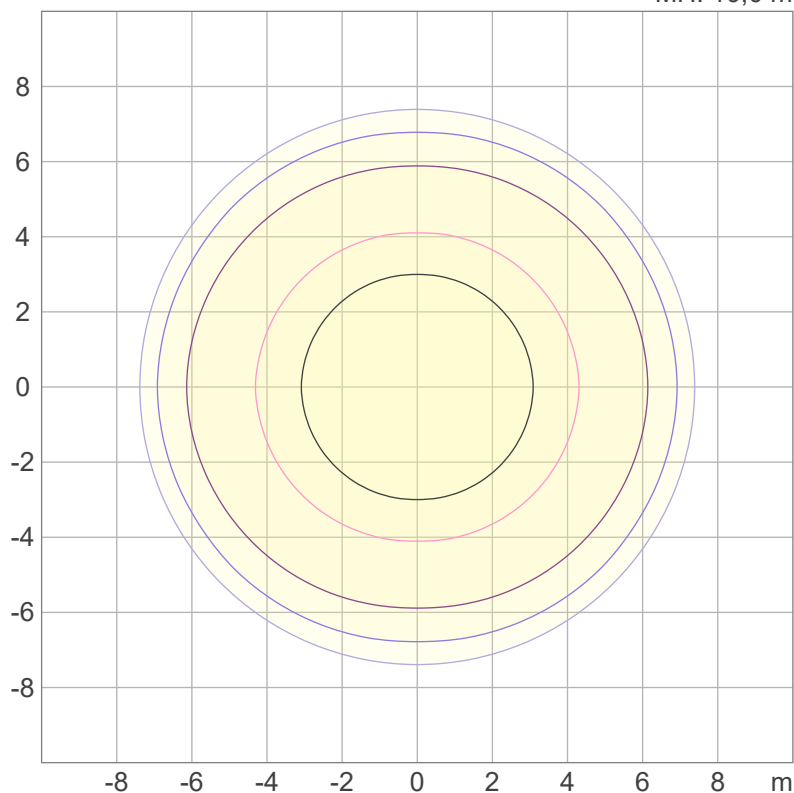
Conditions:

Number of c-planes: 4

Candela at center: 10264 cd

ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

| | |
|-----|---------|
| 3% | 3,08 lx |
| 5% | 5,13 lx |
| 10% | 10,3 lx |
| 30% | 30,8 lx |
| 50% | 51,3 lx |

Conditions:

Number of c-planes: 4

Lux at center: 103 lx

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



Total lumen output:

6814 lm

Peak candela output:

11192 cd

Light quality:

CRI: 91,9

Color temperature:

3110 K

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 60° Egg Crate

Target:

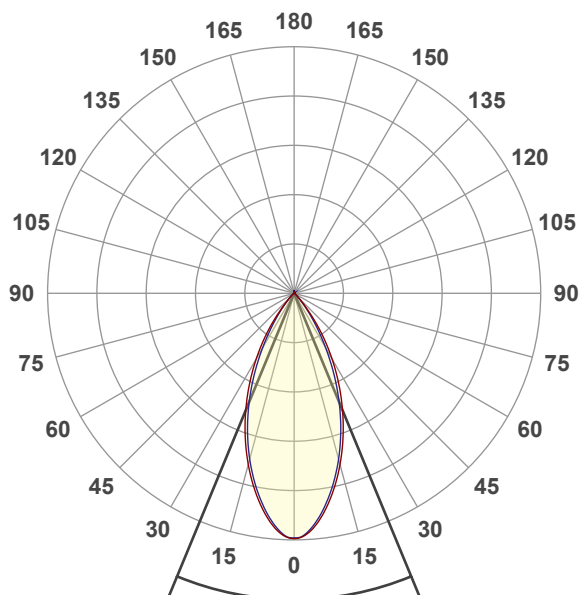
3200K -

Operator:

Paolo Carvone

Date and time:

17/03/2023 14:01:48

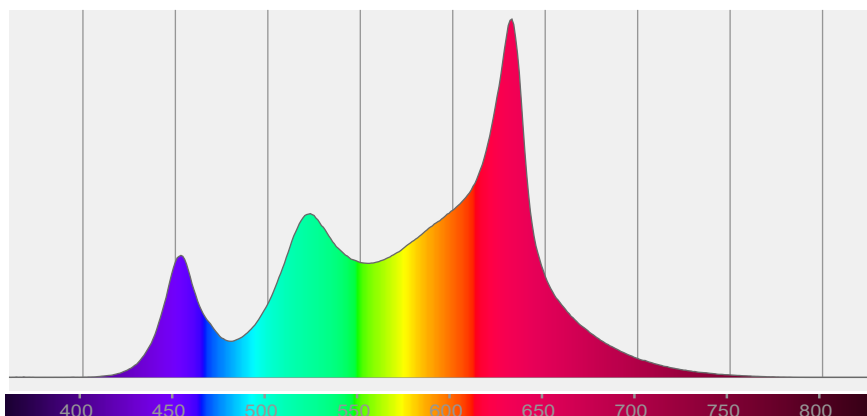


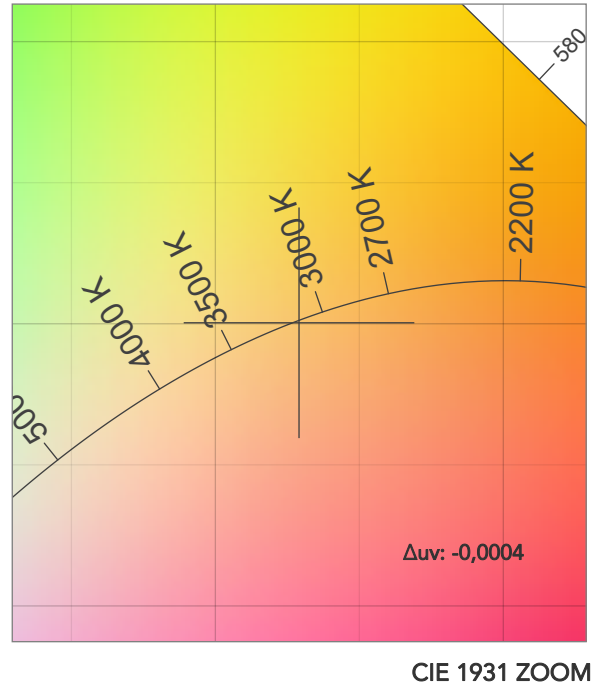
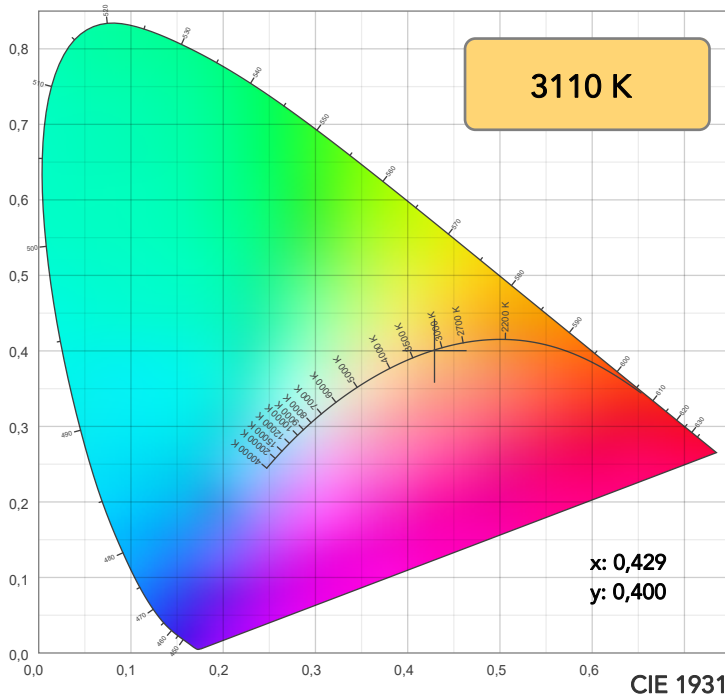
Beam angle 50%: 44,9°

Field angle 10%: 75,7°

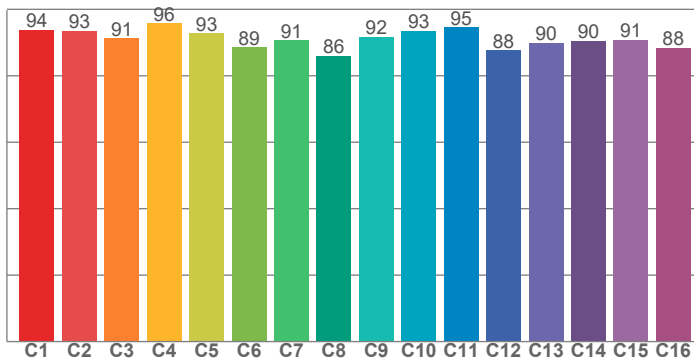
Cut off angle 2.5%: 89,2°

Spectra

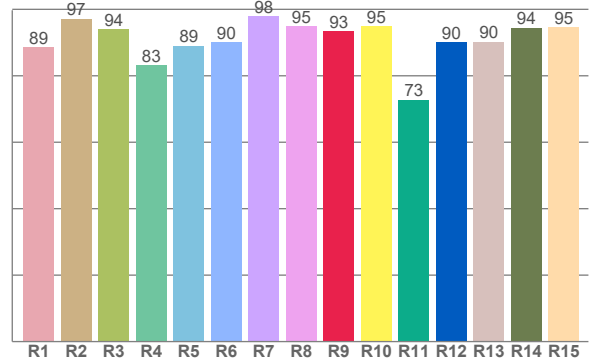




TM30: 91,9



CRI: 91,9 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 88,7 | 97,2 | 93,9 | 83,1 | 89,0 | 90,1 | 98,0 | 94,9 | 93,4 | 94,9 | 72,8 | 90,1 | 90,2 | 94,5 | 94,5 |

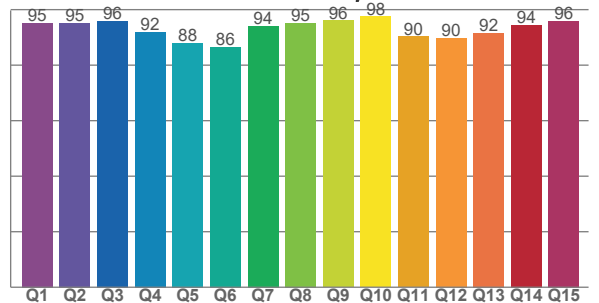
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,8 | 93,5 | 91,2 | 95,7 | 92,8 | 88,6 | 90,7 | 86,0 | 91,8 | 93,5 | 94,6 | 87,6 | 89,8 | 90,5 | 90,9 | 88,4 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,2 | 95,2 | 95,9 | 92,0 | 88,0 | 86,5 | 94,2 | 95,2 | 96,0 | 97,5 | 90,3 | 89,7 | 91,6 | 94,5 | 96,0 |

CQS: 92,3



COLOR PARAMETERS

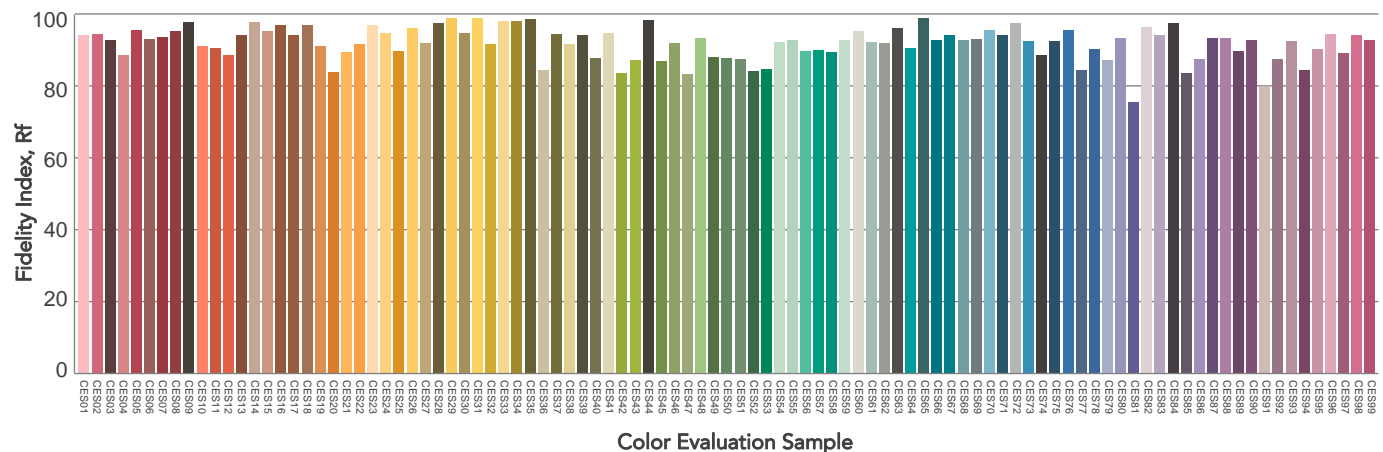
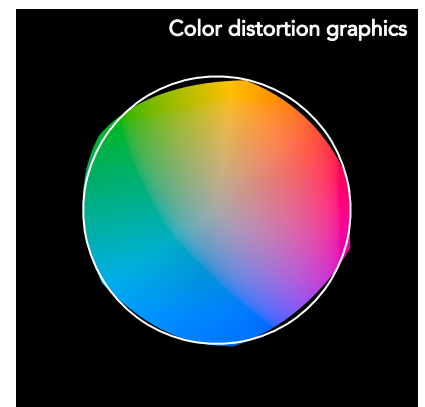
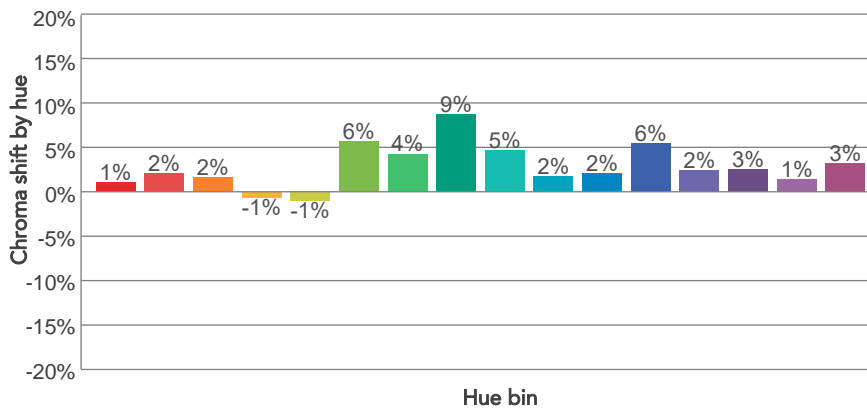
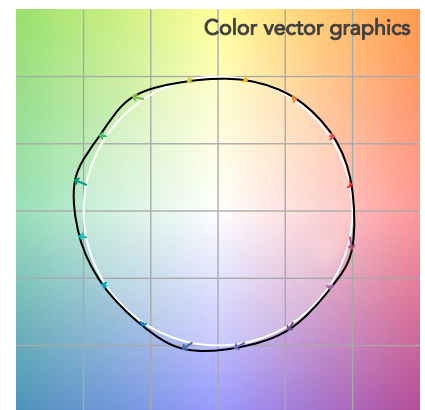
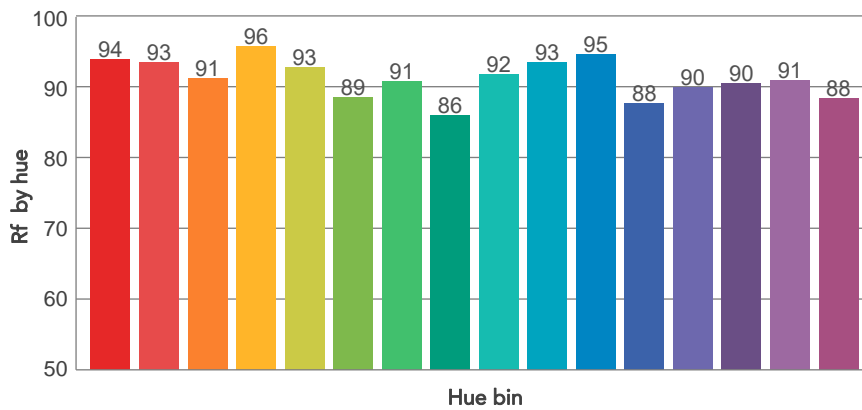
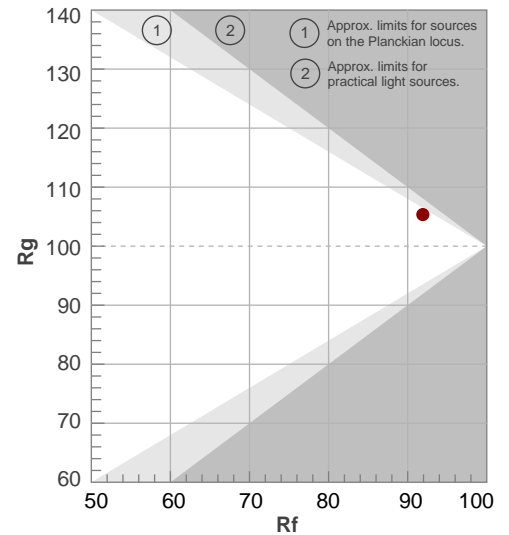
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 3110 K | 91,9 | 93,4 | 91,9 | 105,3 | 92,3 | 82 | 0,429 | 0,400 | -0,0004 |

TM30 DETAILS

Rf 91,9
Fidelity index Rf

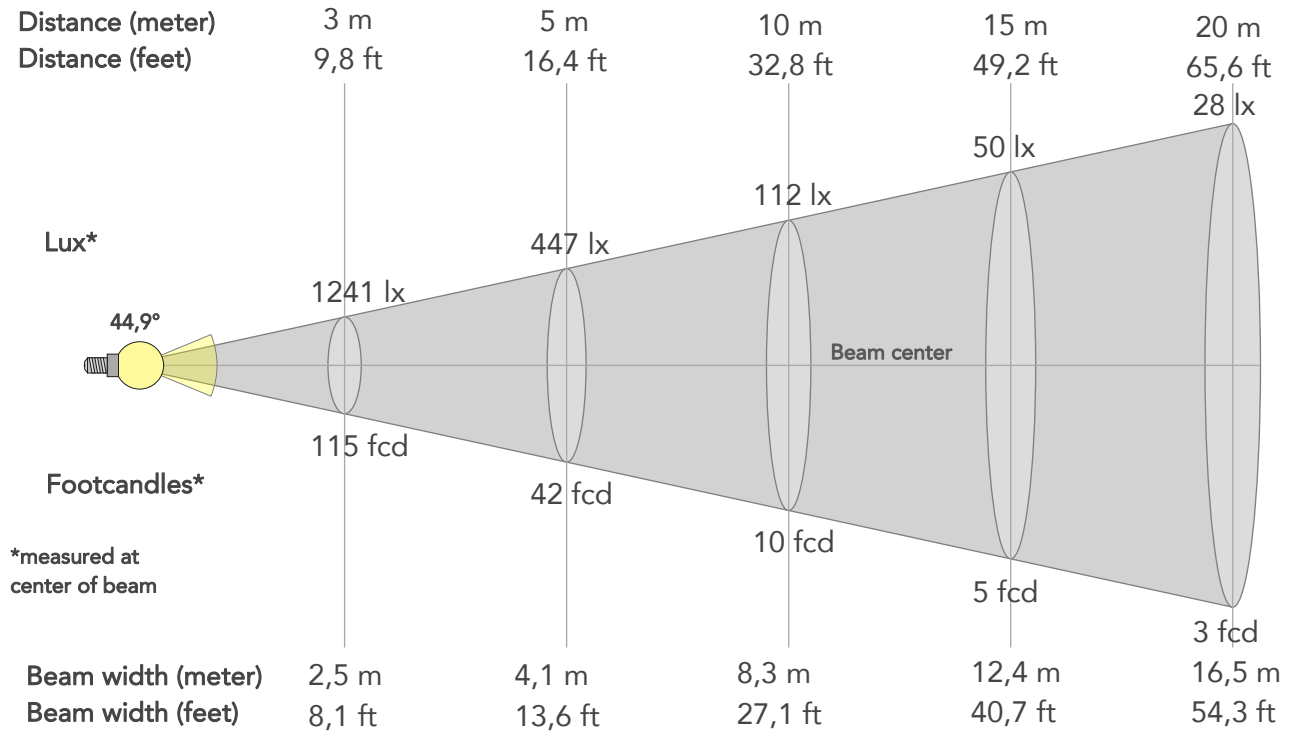
Rg 105,3
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 1% | -1% |
| 2 | 93 | 2% | -2% |
| 3 | 91 | 2% | -2% |
| 4 | 96 | -1% | -2% |
| 5 | 93 | -1% | 3% |
| 6 | 89 | 6% | 5% |
| 7 | 91 | 4% | 2% |
| 8 | 86 | 9% | -2% |
| 9 | 92 | 5% | -2% |
| 10 | 93 | 2% | -2% |
| 11 | 95 | 2% | 0% |
| 12 | 88 | 6% | -6% |
| 13 | 90 | 2% | -7% |
| 14 | 90 | 3% | -6% |
| 15 | 91 | 1% | -2% |
| 16 | 88 | 3% | -8% |



BEAM DETAILS

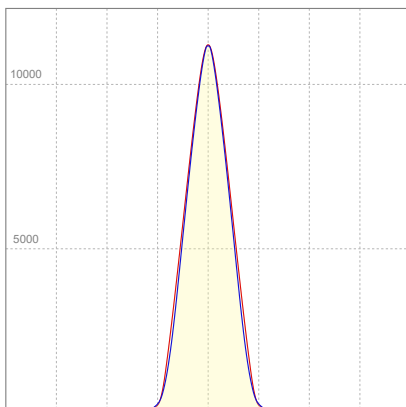
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 44,9° | 75,7° | 89,2° | 99,2% | 97,3% |



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 | 11173lx | 2793lx | 1241lx | 698lx | 447lx | 199lx | 112lx | 50lx | 28lx | 18lx | 12lx | 7lx | 4lx |
| Footcand. | 1038fcd | 259fcd | 115fcd | 65fcd | 42fcd | 18fcd | 10fcd | 5fcd | 3fcd | 2fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,3m | 4,1m | 6,2m | 8,3m | 12,4m | 16,5m | 20,7m | 24,8m | 33,1m | 41,4m |
| Beam wid. | 2,7ft | 5,5ft | 8,1ft | 10,8ft | 13,6ft | 20,3ft | 27,1ft | 40,7ft | 54,3ft | 67,8ft | 81,4ft | 108,5ft | 135,6ft |

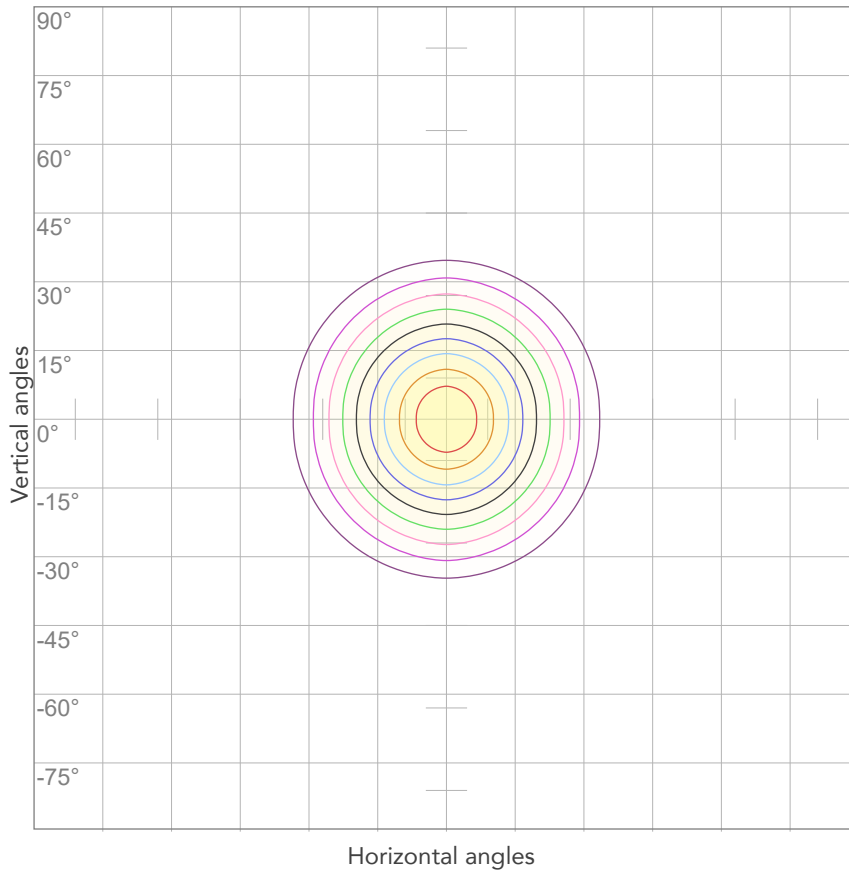
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 231V | 2,19A | 479,2W | 14lm/W |

ISO CANDELA DIAGRAM



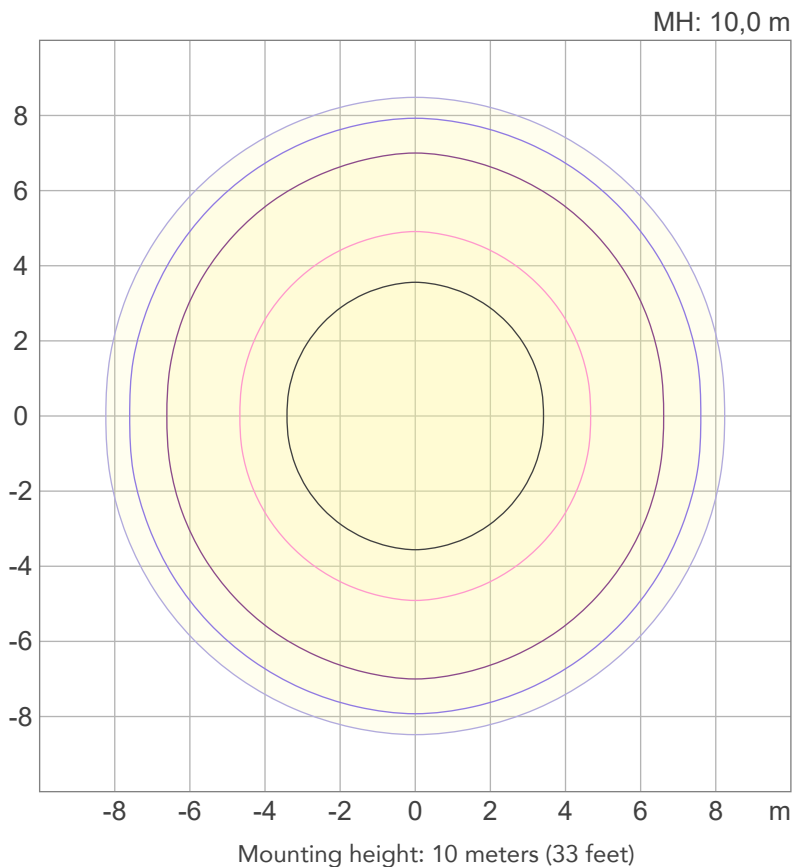
| | |
|-----|---------|
| 10% | 1117 cd |
| 20% | 2235 cd |
| 30% | 3352 cd |
| 40% | 4469 cd |
| 50% | 5586 cd |
| 60% | 6704 cd |
| 70% | 7821 cd |
| 80% | 8938 cd |

Conditions:

Number of c-planes: 4

Candela at center: 11173 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 3,35 lx |
| 5% | 5,59 lx |
| 10% | 11,2 lx |
| 30% | 33,5 lx |
| 50% | 55,9 lx |

Conditions:

Number of c-planes: 4

Lux at center: 112 lx

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



Total lumen output:

4736 lm

Peak candela output:

9986 cd

Light quality:

CRI: 93,4

Color temperature:

3951 K

PRODUCT NAME:

ECLPANEL TWC

MEASURAMENT CONDITIONS:

Beam angle:

MD Filter + 30° Egg Crate

Target:

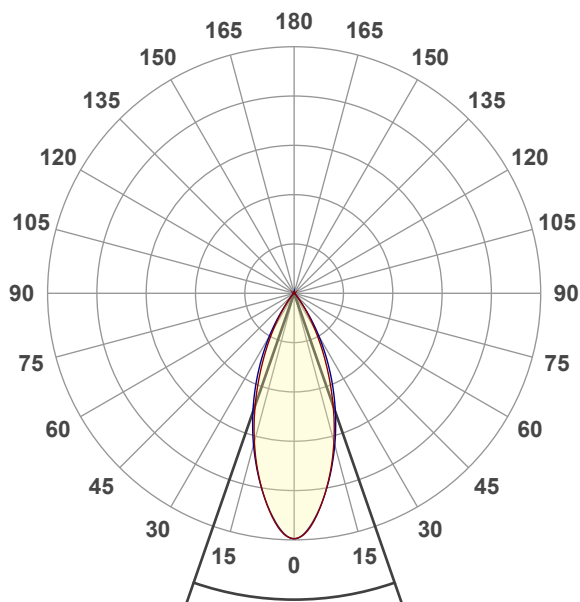
4000K -

Operator:

Paolo Carvone

Date and time:

17/03/2023 13:18:02

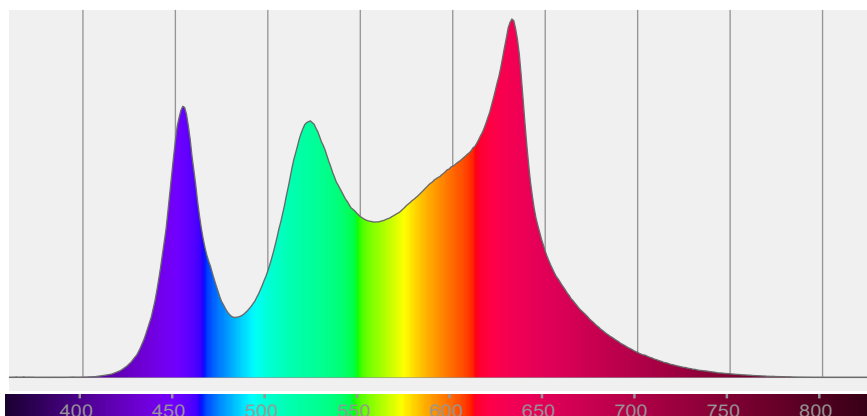


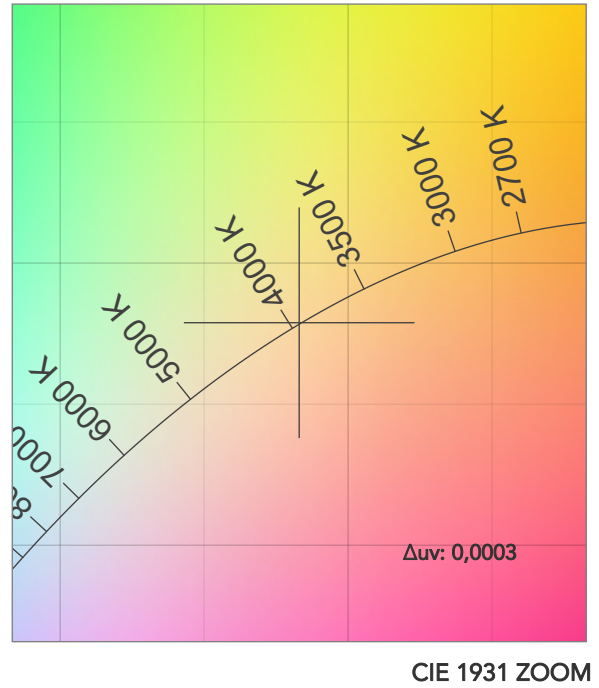
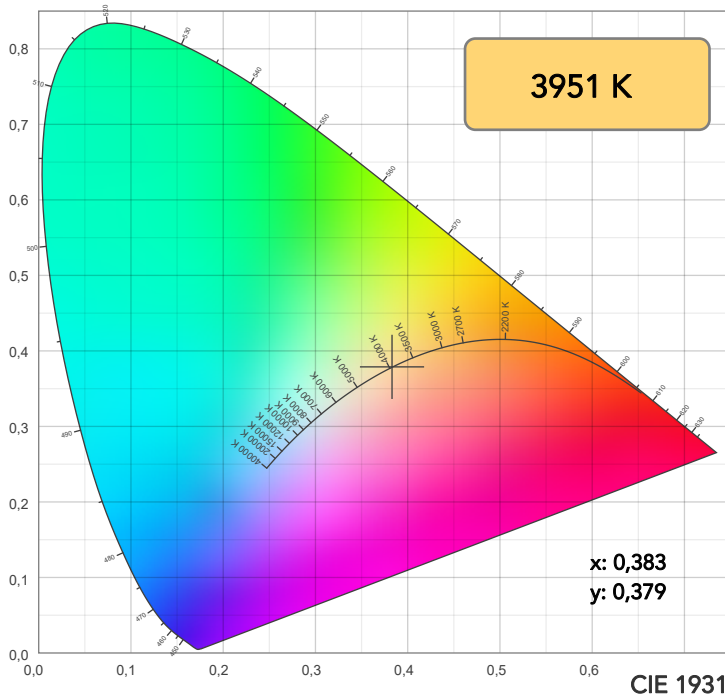
Beam angle 50%: 38,3°

Field angle 10%: 67,7°

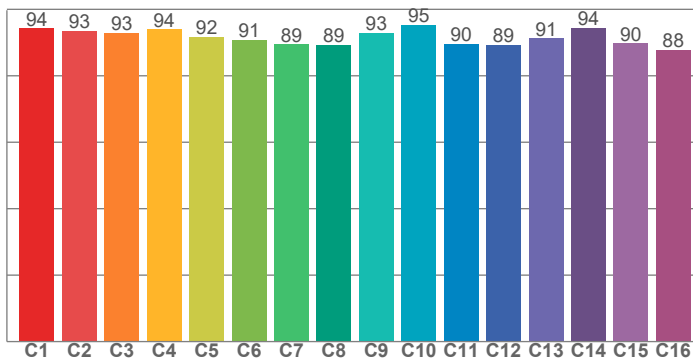
Cut off angle 2.5%: 81,5°

Spectra

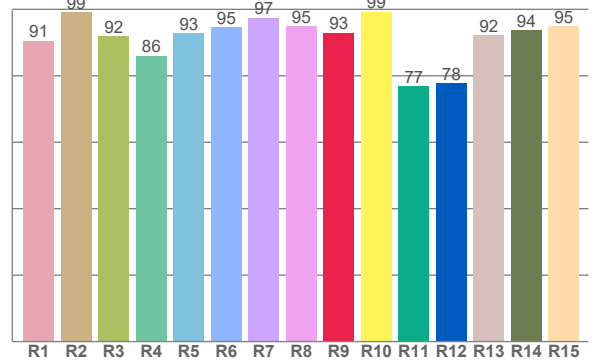




TM30: 91,8



CRI: 93,4 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 90,6 | 99,2 | 91,9 | 86,0 | 92,8 | 94,7 | 97,5 | 94,9 | 93,0 | 99,3 | 76,8 | 77,7 | 92,3 | 93,7 | 95,0 |

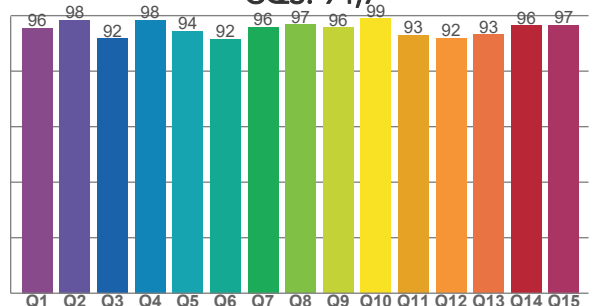
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,6 | 98,4 | 91,7 | 98,4 | 94,4 | 91,6 | 95,9 | 96,7 | 95,7 | 98,9 | 93,0 | 91,9 | 93,2 | 96,4 | 96,7 |

CQS: 94,7

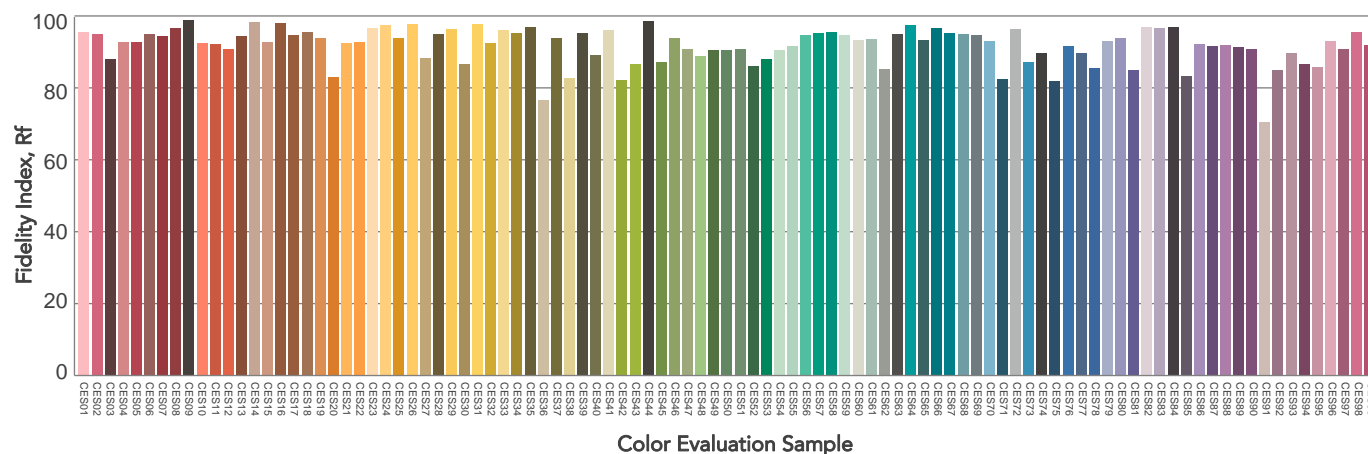
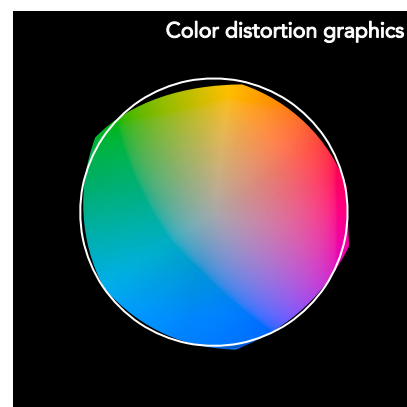
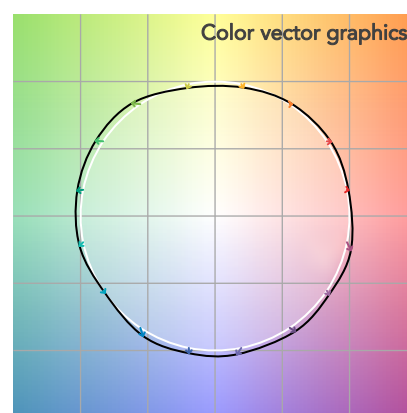
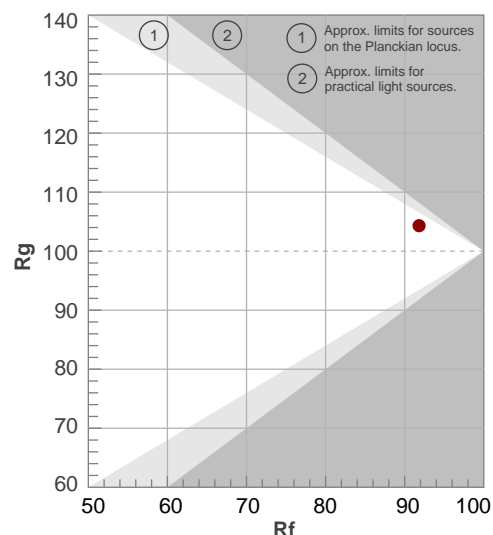


COLOR PARAMETERS

| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 3951 K | 93,4 | 93,0 | 91,8 | 104,3 | 94,7 | 87 | 0,383 | 0,379 | 0,0003 |

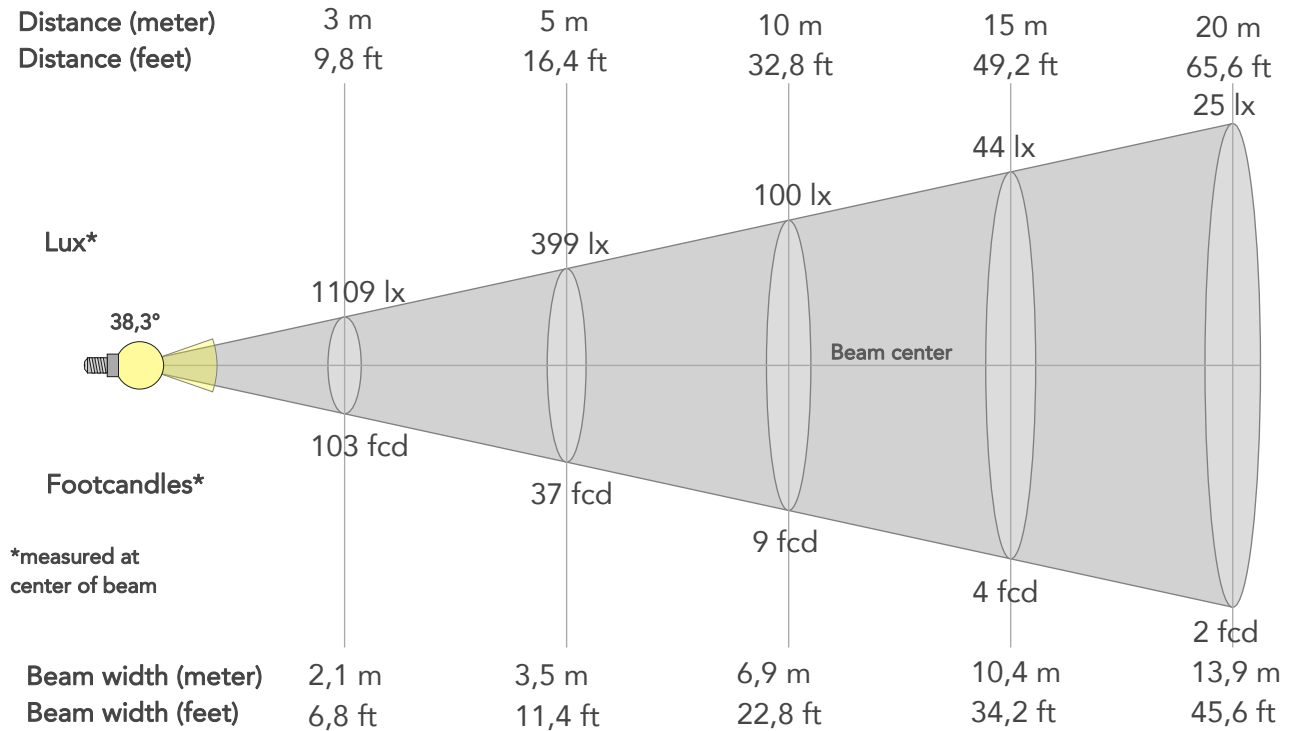
Gammut index

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



BEAM DETAILS

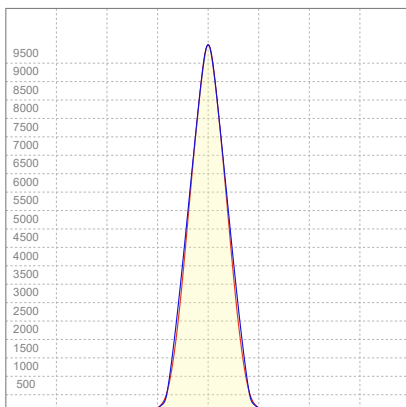
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 38,3° | 67,7° | 81,5° | 99,3% | 98,0% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|---------|---------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 9982lx | 2496lx | 1109lx | 624lx | 399lx | 177lx | 100lx | 44lx | 25lx | 16lx | 11lx | 6lx | 4lx |
| Footcand. | 927fcd | 232fcd | 103fcd | 58fcd | 37fcd | 16fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,7m | 1,4m | 2,1m | 2,8m | 3,5m | 5,2m | 6,9m | 10,4m | 13,9m | 17,4m | 20,8m | 27,8m | 34,7m |
| Beam wid. | 2,3ft | 4,6ft | 6,8ft | 9,1ft | 11,4ft | 17,1ft | 22,8ft | 34,2ft | 45,6ft | 57ft | 68,4ft | 91,1ft | 113,9ft |

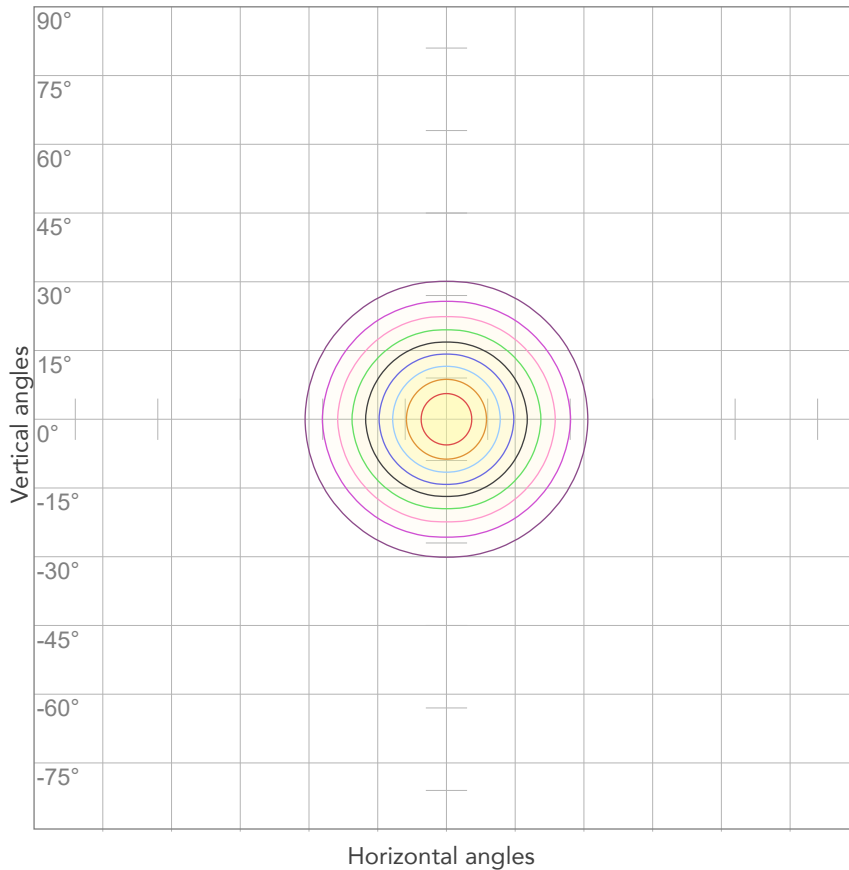
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 232V | 2,16A | 474W | 10lm/W |

ISO CANDELA DIAGRAM



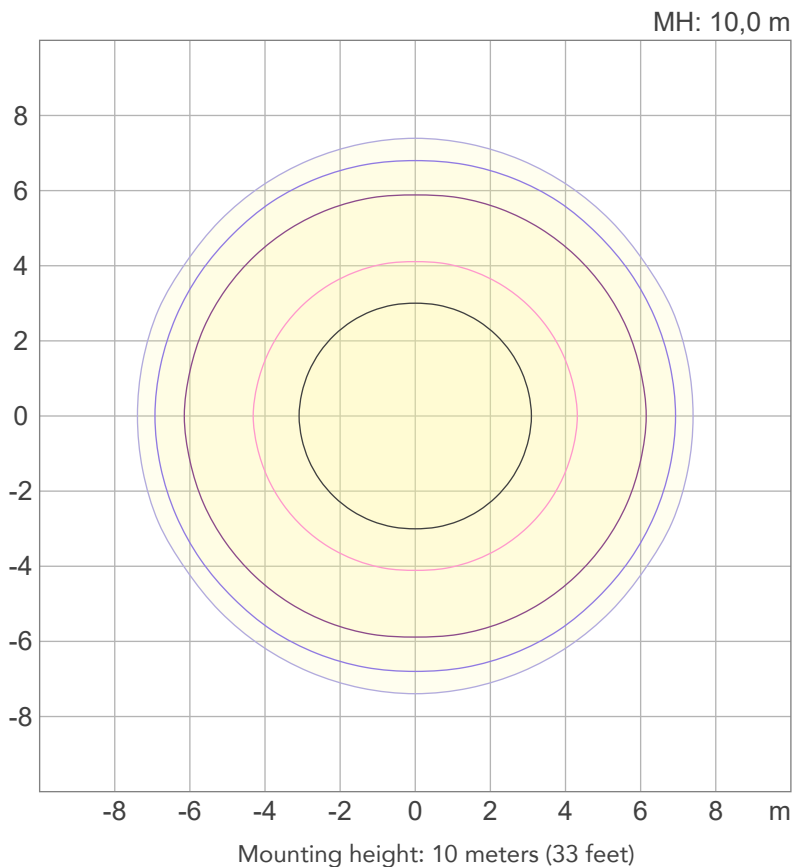
| | |
|-----|---------|
| 10% | 998 cd |
| 20% | 1996 cd |
| 30% | 2995 cd |
| 40% | 3993 cd |
| 50% | 4991 cd |
| 60% | 5989 cd |
| 70% | 6988 cd |
| 80% | 7986 cd |

Conditions:

Number of c-planes: 4

Candela at center: 9982 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 2,99 lx |
| 5% | 4,99 lx |
| 10% | 9,98 lx |
| 30% | 29,9 lx |
| 50% | 49,9 lx |

Conditions:

Number of c-planes: 4

Lux at center: 99,8 lx

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



Total lumen output:

6857 lm

Peak candela output:

11157 cd

Light quality:

CRI: 92,8

Color temperature:

3909 K

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 60° Egg Crate

Target:

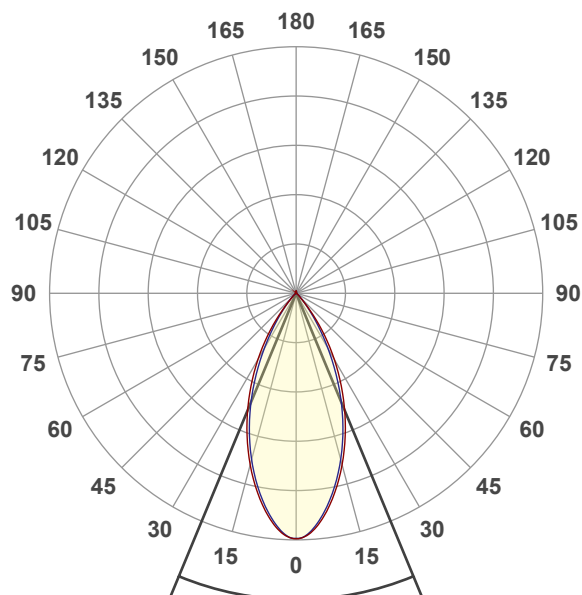
4000K -

Operator:

Paolo Carvone

Date and time:

17/03/2023 13:57:42

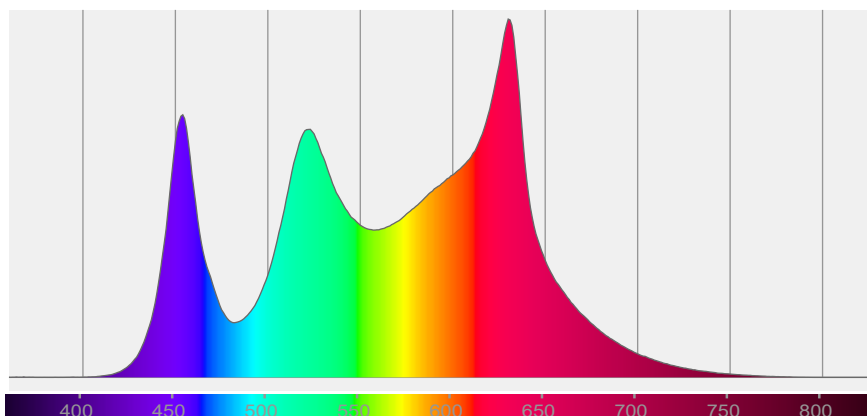


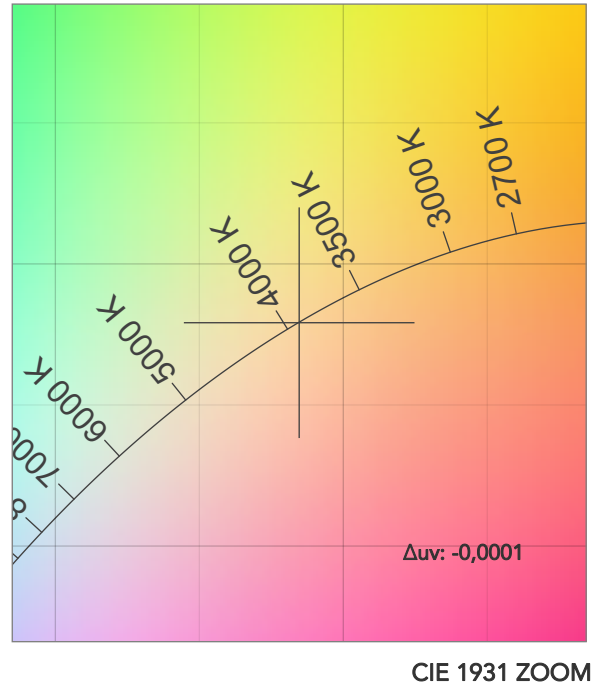
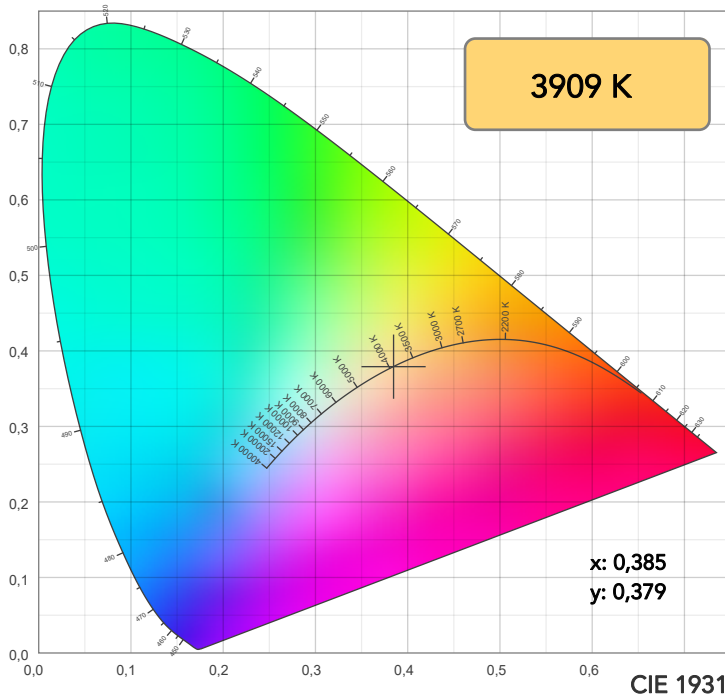
Beam angle 50%: 45°

Field angle 10%: 75,9°

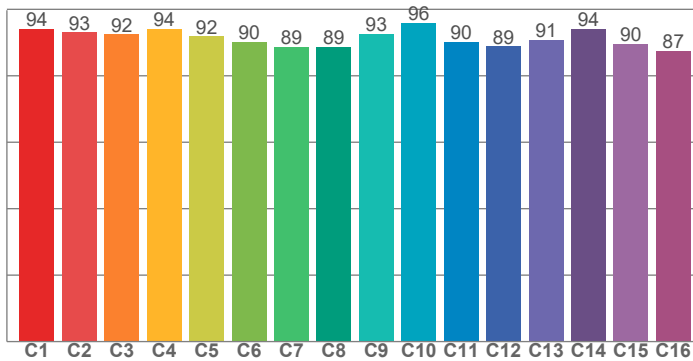
Cut off angle 2.5%: 90°

Spectra

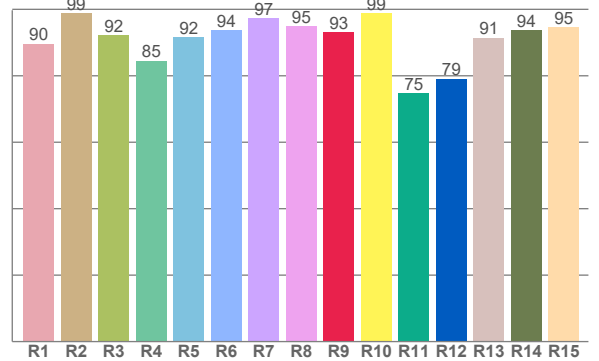




TM30: 91,6



CRI: 92,8 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 89,6 | 98,8 | 92,2 | 84,5 | 91,7 | 93,8 | 97,3 | 94,8 | 93,0 | 98,7 | 74,7 | 79,1 | 91,5 | 93,8 | 94,5 |

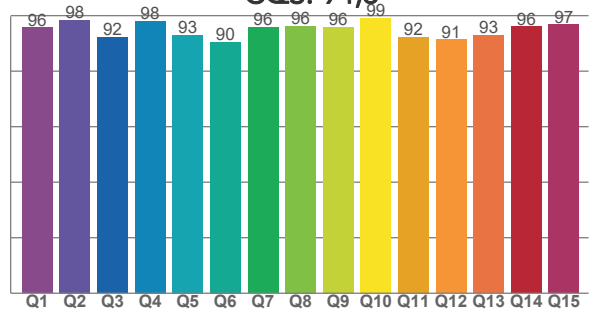
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,0 | 93,0 | 92,4 | 94,1 | 91,9 | 90,2 | 88,6 | 88,6 | 92,5 | 96,0 | 90,1 | 88,9 | 90,8 | 94,2 | 89,6 | 87,5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,8 | 98,3 | 92,2 | 98,1 | 93,0 | 90,5 | 95,8 | 96,3 | 95,9 | 99,2 | 92,3 | 91,3 | 92,9 | 96,0 | 96,7 |

CQS: 94,3



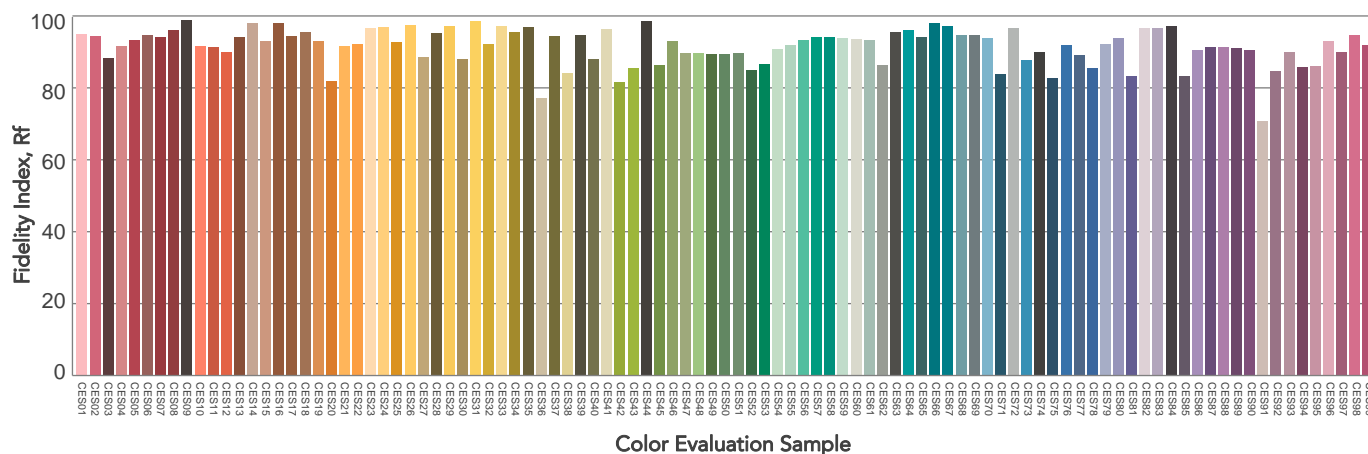
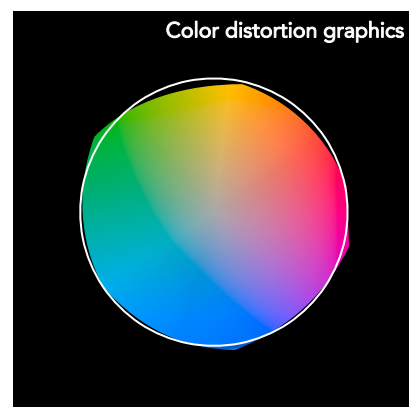
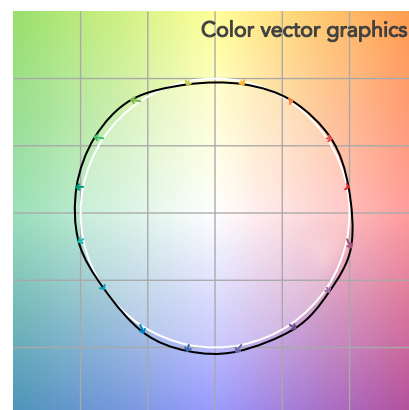
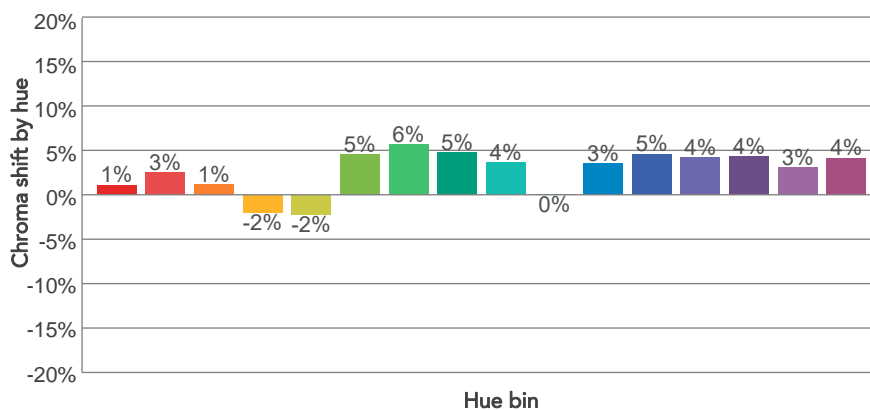
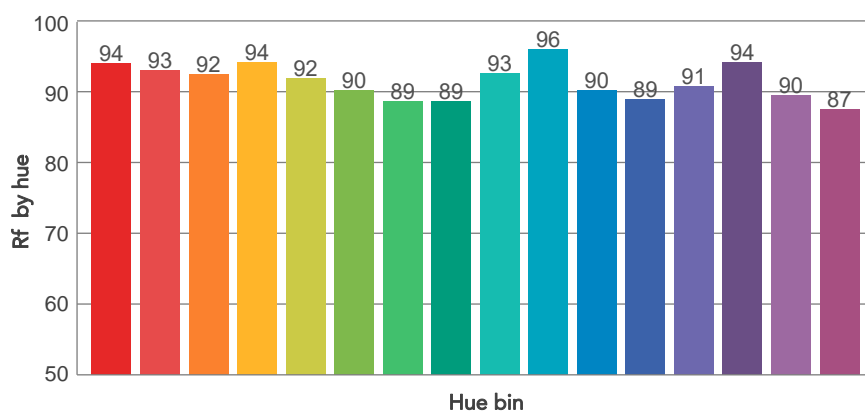
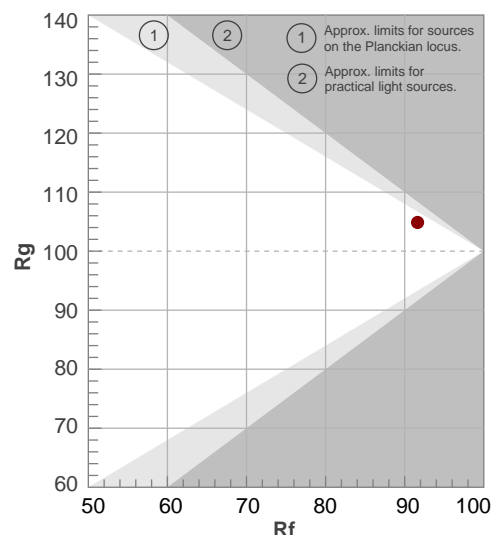
COLOR PARAMETERS

| 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 |
| 3909 K | 92,8 | 93,0 | 91,6 | 104,9 | 94,3 | 85 | 0,385 | 0,379 | -0,0001 |

Fidelity index R_f

Gammut index

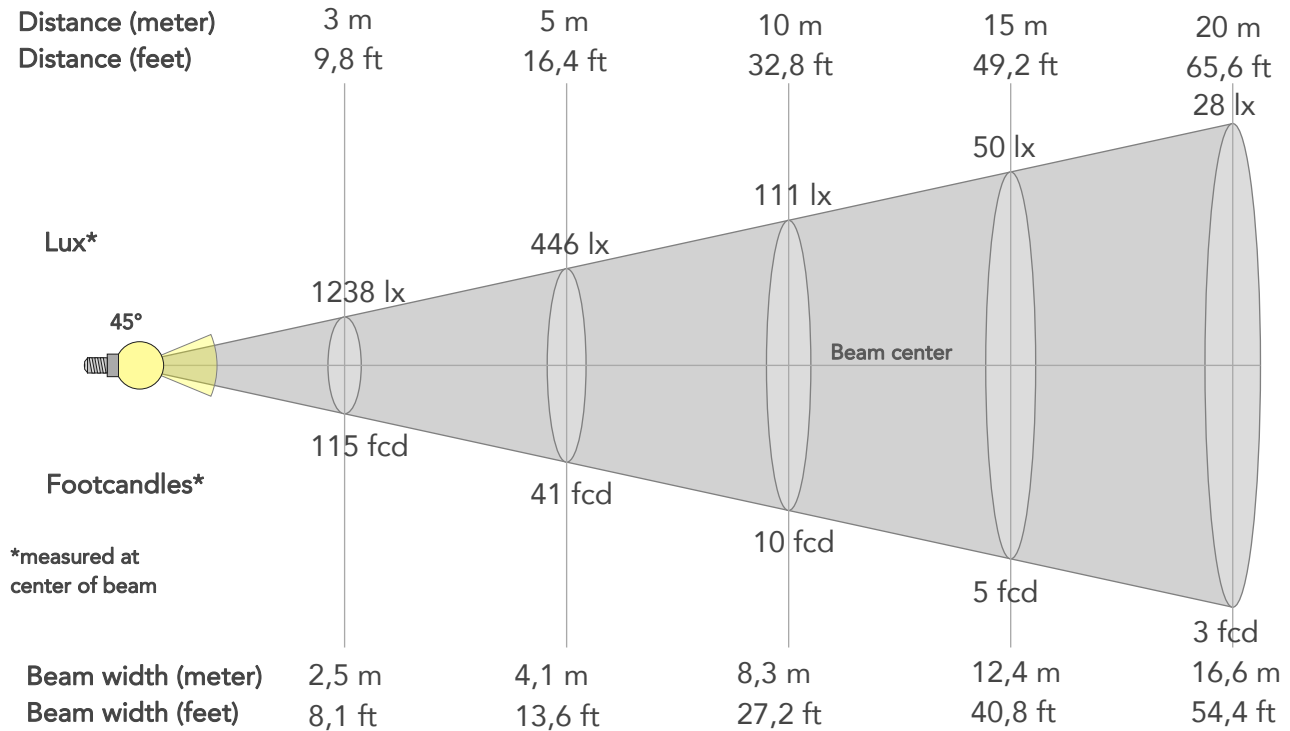
| | | Graphic shifts (%) | |
|---------|-------|--------------------|-----|
| Hue Bin | R_i | Chroma | Hue |
| 1 | 94 | 1% | -1% |
| 2 | 93 | 3% | -2% |
| 3 | 92 | 1% | -1% |
| 4 | 94 | -2% | -2% |
| 5 | 92 | -2% | 2% |
| 6 | 90 | 5% | 5% |
| 7 | 89 | 6% | 3% |
| 8 | 89 | 5% | 1% |
| 9 | 93 | 4% | 1% |
| 10 | 96 | 0% | 1% |
| 11 | 90 | 3% | 5% |
| 12 | 89 | 5% | 0% |
| 13 | 91 | 4% | -5% |
| 14 | 94 | 4% | 2% |
| 15 | 90 | 3% | -2% |
| 16 | 87 | 4% | -5% |



BEAM DETAILS



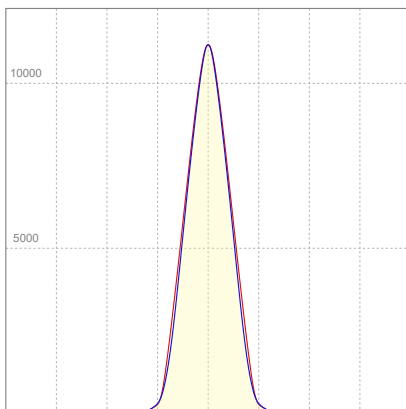
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45° | 75,9° | 90° | 99,0% | 96,9% |



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 | 11145lx | 2786lx | 1238lx | 697lx | 446lx | 198lx | 111lx | 50lx | 28lx | 18lx | 12lx | 7lx | 4lx |
| Footcand. | 1035fcd | 259fcd | 115fcd | 65fcd | 41fcd | 18fcd | 10fcd | 5fcd | 3fcd | 2fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,3m | 4,1m | 6,2m | 8,3m | 12,4m | 16,6m | 20,7m | 24,9m | 33,2m | 41,4m |
| Beam wid. | 2,7ft | 5,5ft | 8,1ft | 10,9ft | 13,6ft | 20,4ft | 27,2ft | 40,8ft | 54,4ft | 68ft | 81,6ft | 108,8ft | 135,9ft |

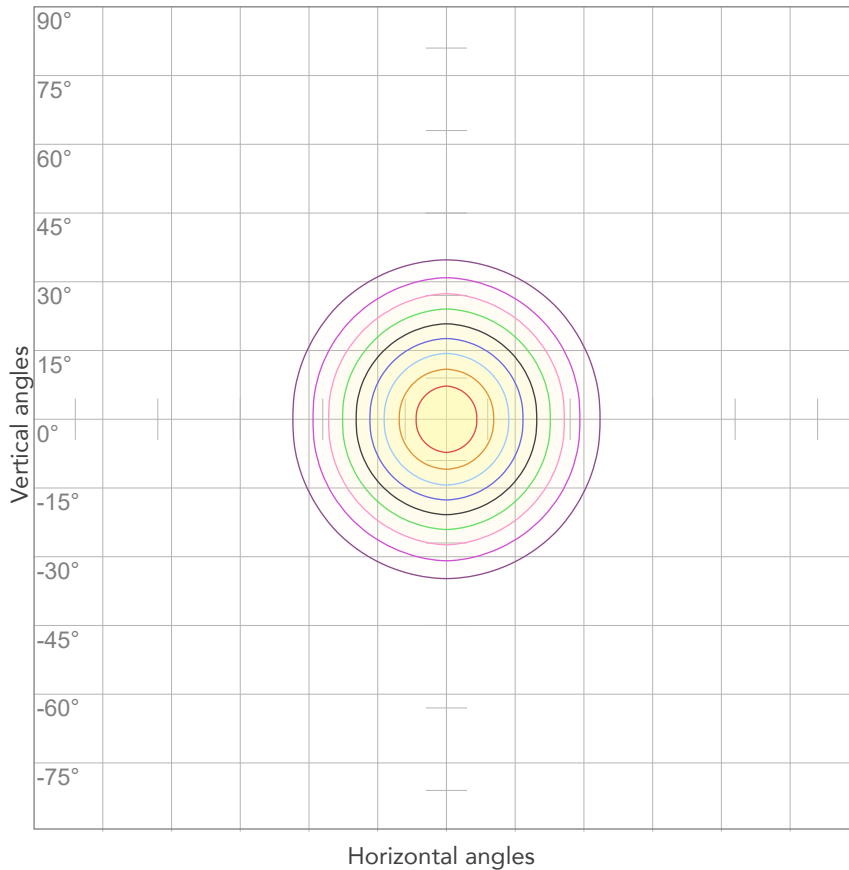
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 232V | 2,21A | 484,9W | 14lm/W |

ISO CANDELA DIAGRAM



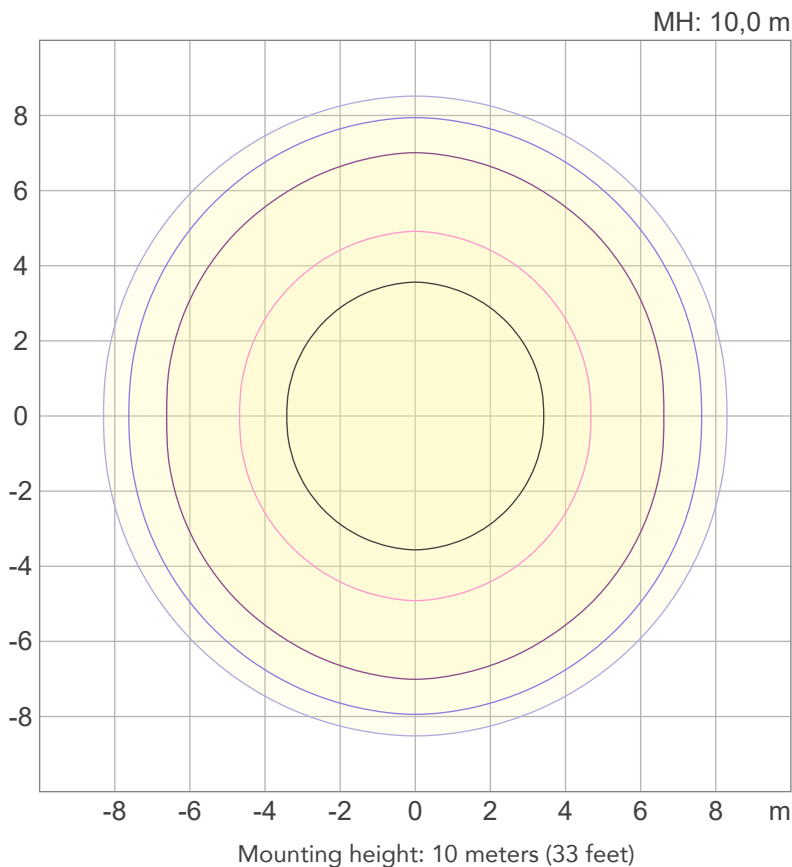
| | |
|-----|---------|
| 10% | 1115 cd |
| 20% | 2229 cd |
| 30% | 3344 cd |
| 40% | 4458 cd |
| 50% | 5573 cd |
| 60% | 6687 cd |
| 70% | 7802 cd |
| 80% | 8916 cd |

Conditions:

Number of c-planes: 4

Candela at center: 11145 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 3,34 lx |
| 5% | 5,57 lx |
| 10% | 11,1 lx |
| 30% | 33,4 lx |
| 50% | 55,7 lx |

Conditions:

Number of c-planes: 4

Lux at center: 111 lx

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



Total lumen output:

4525 lm

Peak candela output:

9481 cd

Light quality:

CRI: 94,0

Color temperature:

5585 K

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 30° Egg Crate

Target:

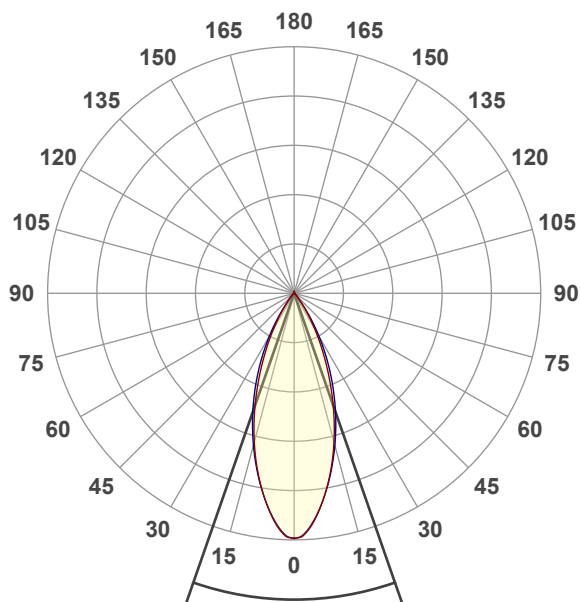
5600K -

Operator:

Paolo Carvone

Date and time:

17/03/2023 13:21:08

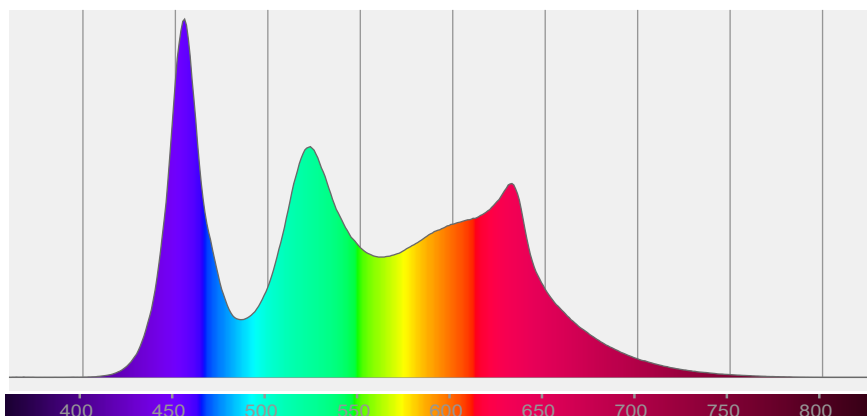


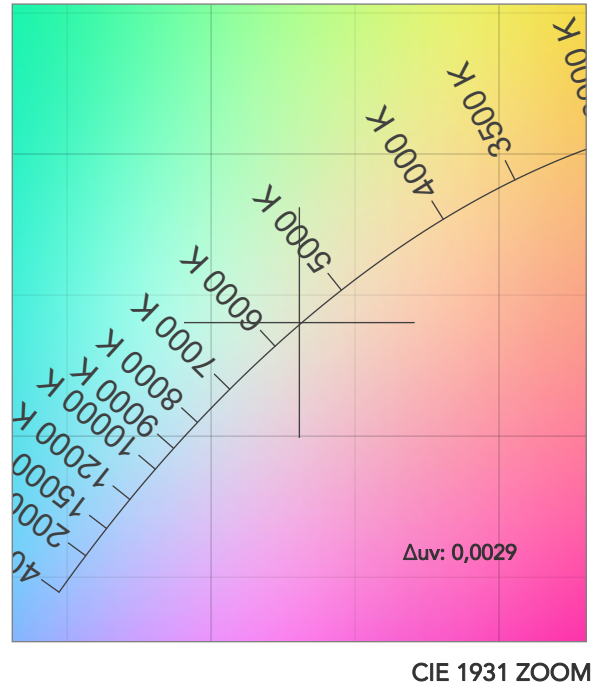
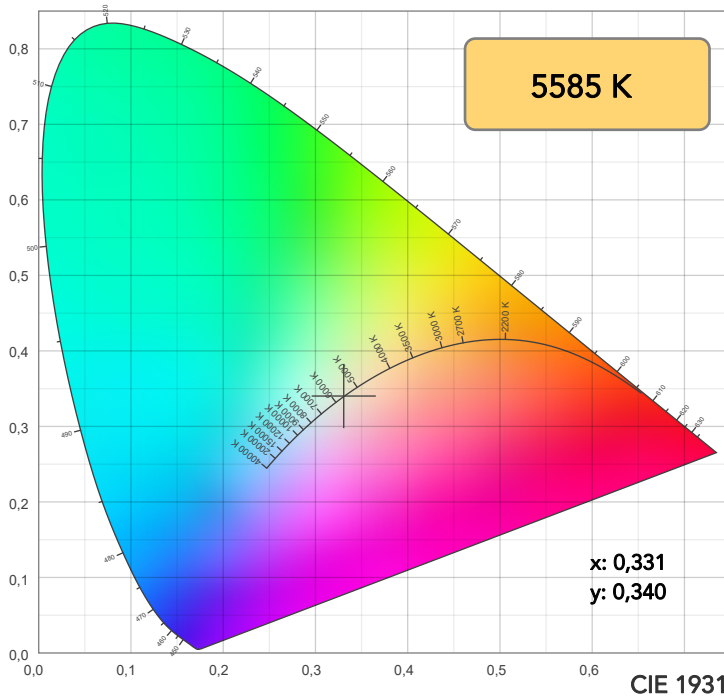
Beam angle 50%: 38,4°

Field angle 10%: 67,9°

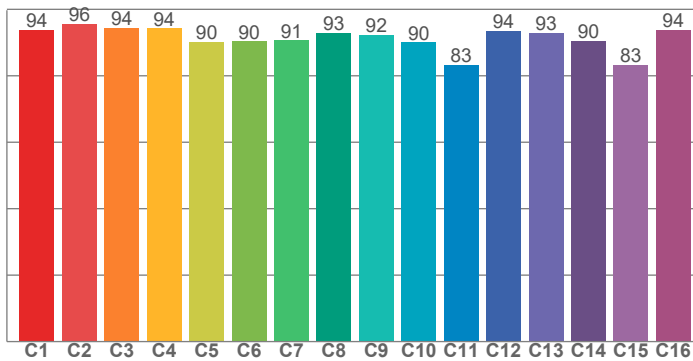
Cut off angle 2.5%: 82°

Spectra

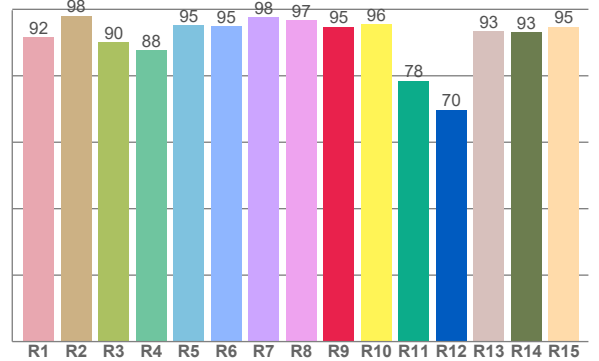




TM30: 91,2



CRI: 94,0 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,7 | 98,0 | 90,1 | 87,7 | 95,1 | 94,9 | 97,6 | 96,8 | 94,8 | 95,5 | 78,5 | 69,8 | 93,3 | 93,0 | 94,8 |

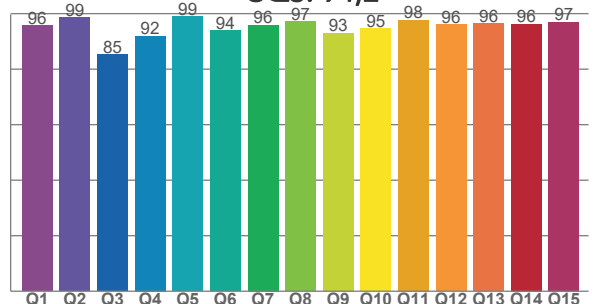
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,9 | 95,6 | 94,4 | 94,3 | 90,2 | 90,3 | 90,6 | 93,0 | 92,3 | 90,0 | 83,2 | 93,6 | 93,0 | 90,4 | 83,3 | 93,8 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,7 | 98,6 | 85,3 | 91,9 | 99,0 | 93,8 | 95,9 | 97,1 | 93,1 | 94,7 | 97,7 | 96,1 | 96,4 | 96,2 | 97,0 |

CQS: 94,2



COLOR PARAMETERS

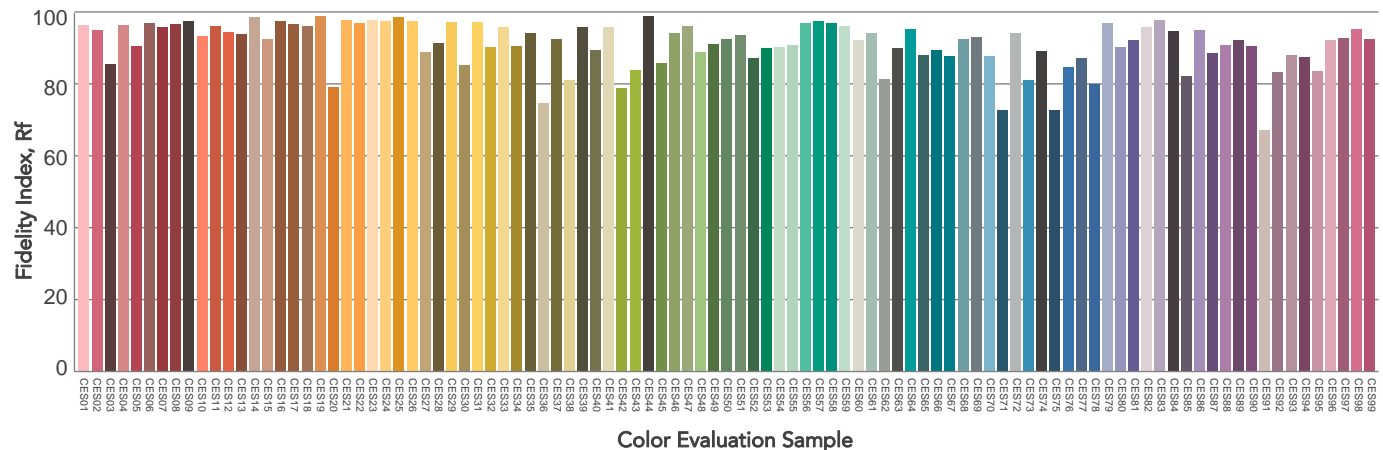
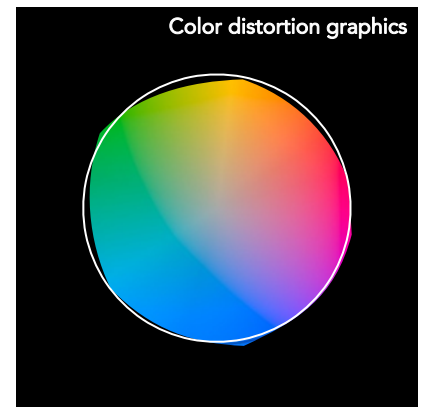
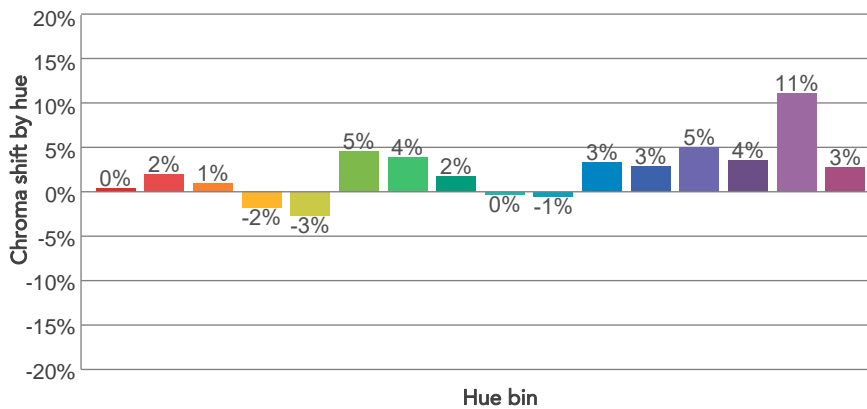
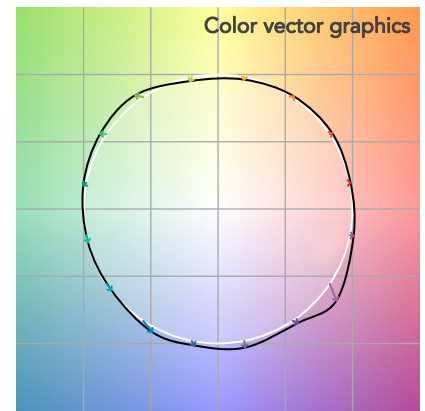
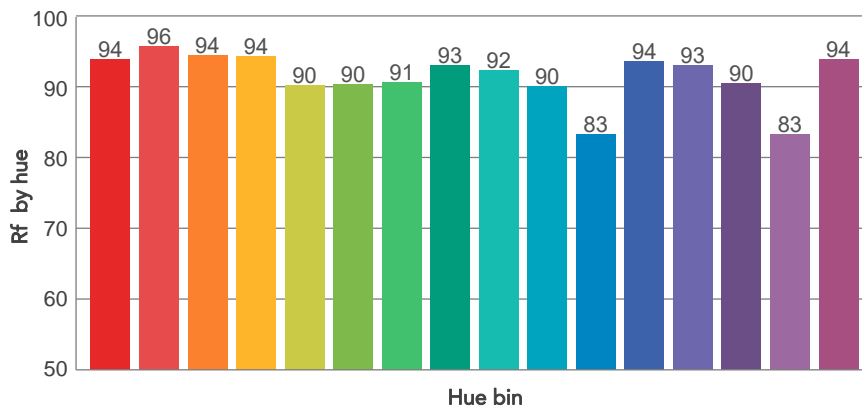
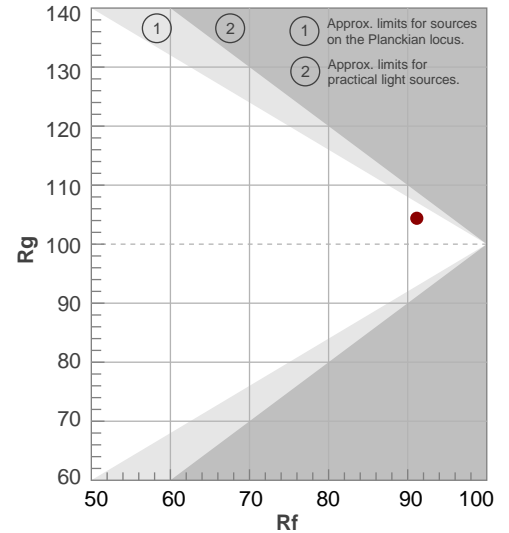
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 5585 K | 94,0 | 94,8 | 91,2 | 104,4 | 94,2 | 92 | 0,331 | 0,340 | 0,0029 |

TM30 DETAILS

Rf 91,2
Fidelity index Rf

Rg 104,4
Gammut index

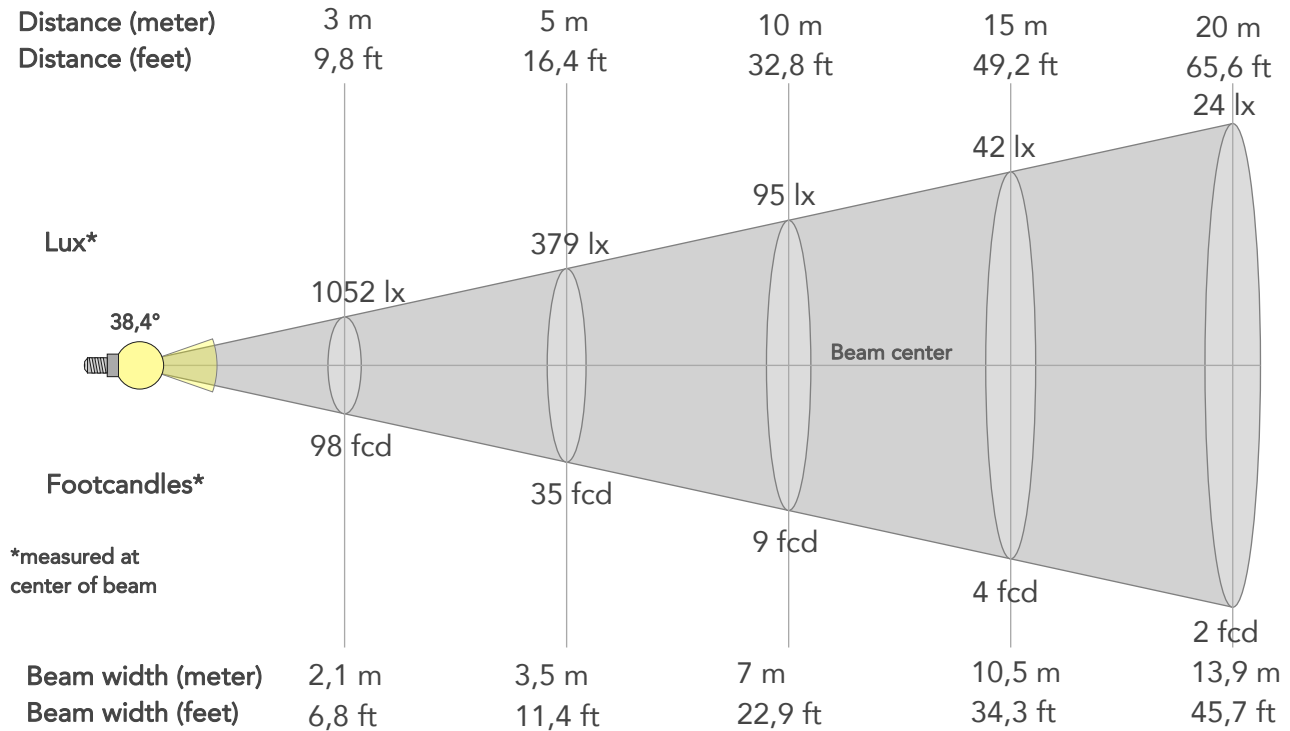
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 0% | 0% |
| 2 | 96 | 2% | 0% |
| 3 | 94 | 1% | 0% |
| 4 | 94 | -2% | 0% |
| 5 | 90 | -3% | 2% |
| 6 | 90 | 5% | 4% |
| 7 | 91 | 4% | 2% |
| 8 | 93 | 2% | 2% |
| 9 | 92 | 0% | 5% |
| 10 | 90 | -1% | 6% |
| 11 | 83 | 3% | 10% |
| 12 | 94 | 3% | 3% |
| 13 | 93 | 5% | 0% |
| 14 | 90 | 4% | 3% |
| 15 | 83 | 11% | -8% |
| 16 | 94 | 3% | 0% |



BEAM DETAILS



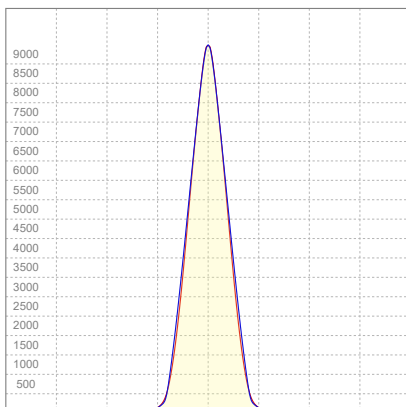
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 38,4° | 67,9° | 82° | 99,2% | 97,7% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 9465lx | 2366lx | 1052lx | 592lx | 379lx | 168lx | 95lx | 42lx | 24lx | 15lx | 11lx | 6lx | 4lx |
| Footcand. | 879fcd | 220fcd | 98fcd | 55fcd | 35fcd | 16fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,7m | 1,4m | 2,1m | 2,8m | 3,5m | 5,2m | 7m | 10,5m | 13,9m | 17,4m | 20,9m | 27,9m | 34,8m |
| Beam wid. | 2,3ft | 4,6ft | 6,8ft | 9,1ft | 11,4ft | 17,1ft | 22,9ft | 34,3ft | 45,7ft | 57,2ft | 68,6ft | 91,4ft | 114,3ft |

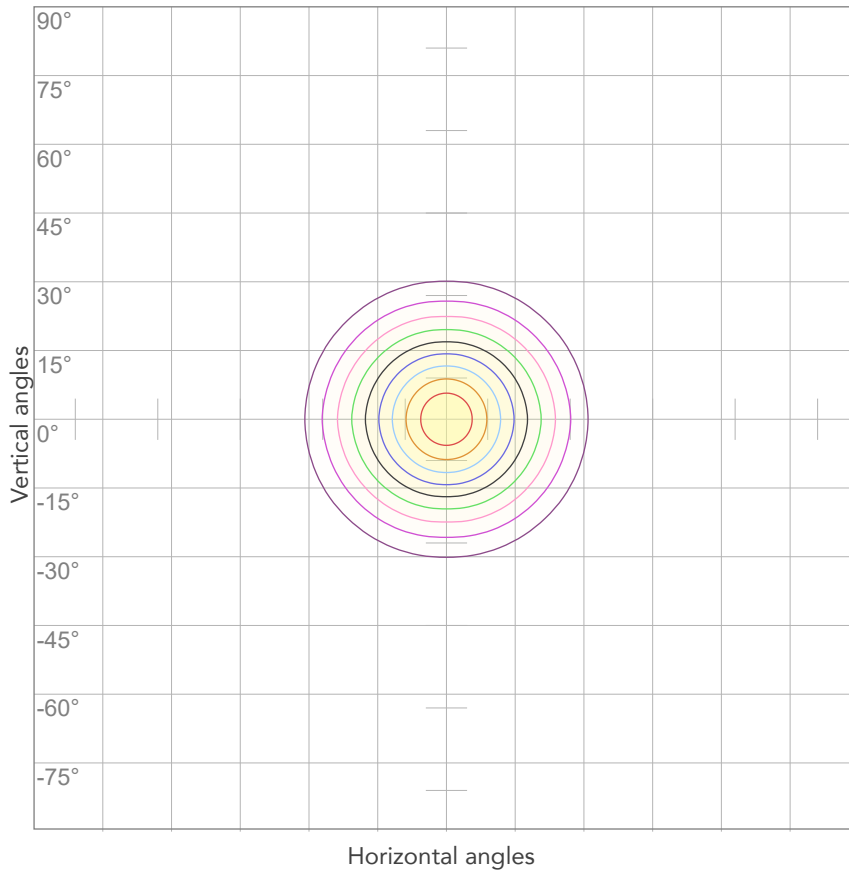
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 232V | 2,15A | 471,7W | 10lm/W |

ISO CANDELA DIAGRAM



| | |
|-----|---------|
| 10% | 947 cd |
| 20% | 1893 cd |
| 30% | 2840 cd |
| 40% | 3786 cd |
| 50% | 4733 cd |
| 60% | 5679 cd |
| 70% | 6626 cd |
| 80% | 7572 cd |

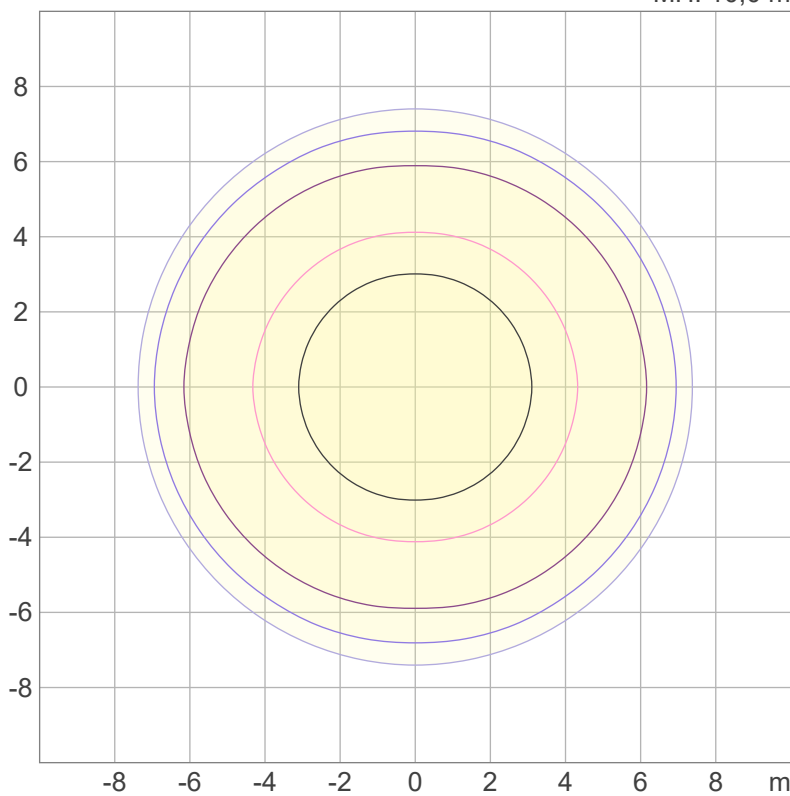
Conditions:

Number of c-planes: 4

Candela at center: 9465 cd

ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

| | |
|-----|---------|
| 3% | 2,84 lx |
| 5% | 4,73 lx |
| 10% | 9,47 lx |
| 30% | 28,4 lx |
| 50% | 47,3 lx |

Conditions:

Number of c-planes: 4

Lux at center: 94,7 lx

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



Total lumen output:

6275 lm

Peak candela output:

10130 cd

Light quality:

CRI: 94,1

Color temperature:

5608 K

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 60° Egg Crate

Target:

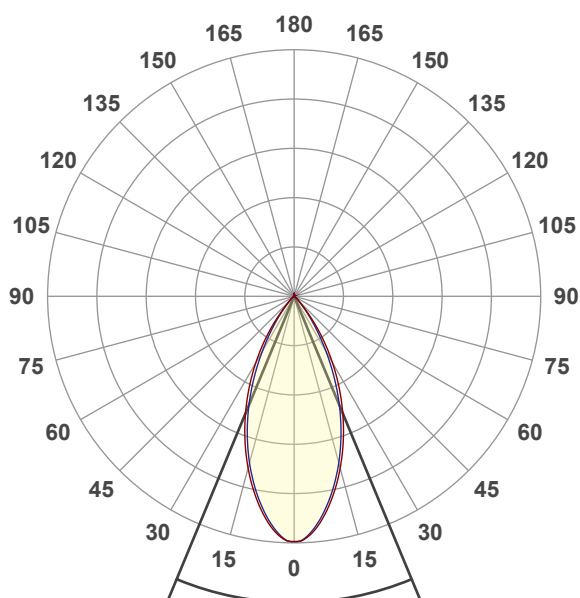
5600K -

Operator:

Paolo Carvone

Date and time:

17/03/2023 13:32:06

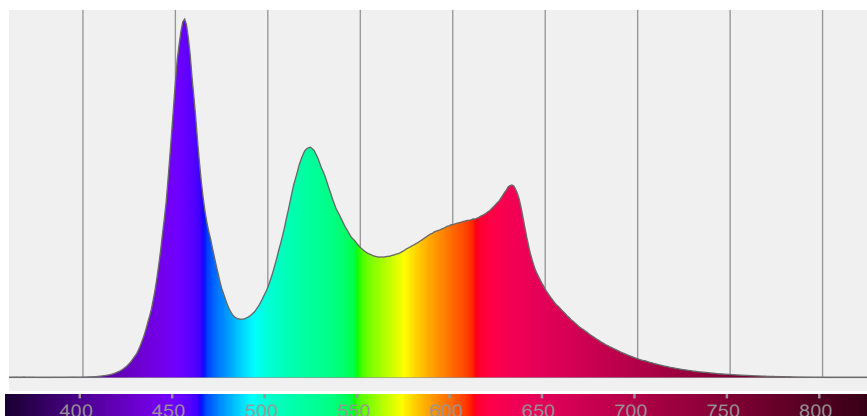


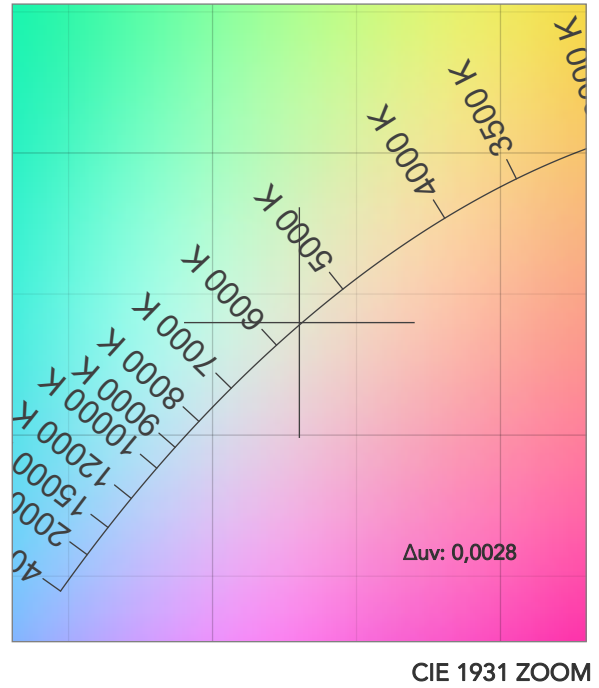
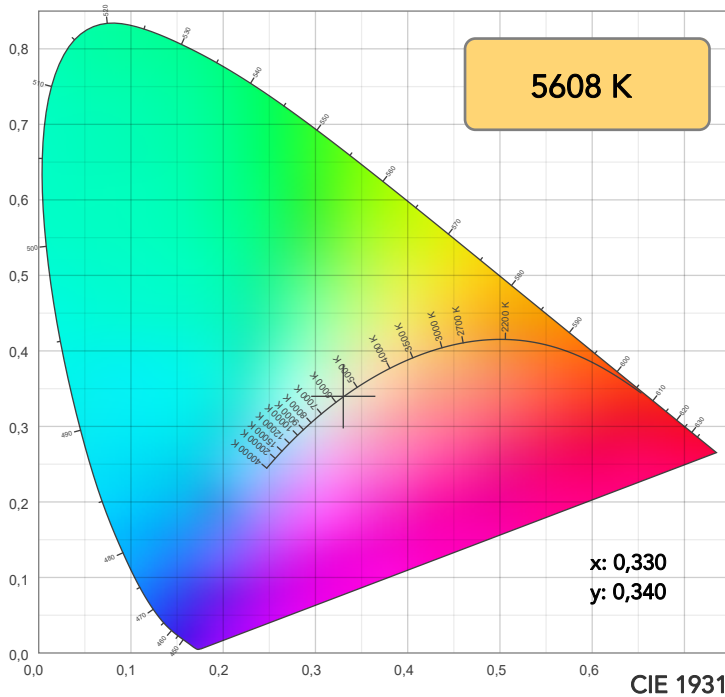
Beam angle 50%: 45,1°

Field angle 10%: 76°

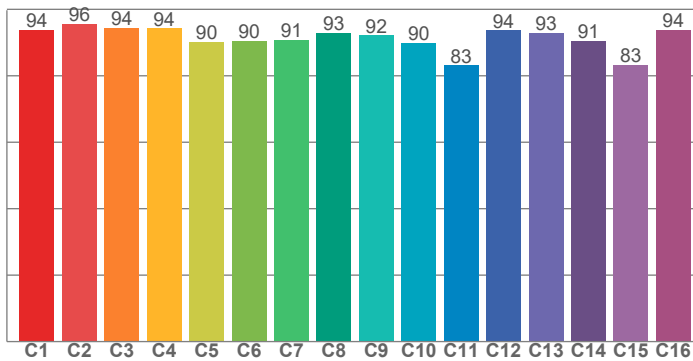
Cut off angle 2.5%: 90,5°

Spectra

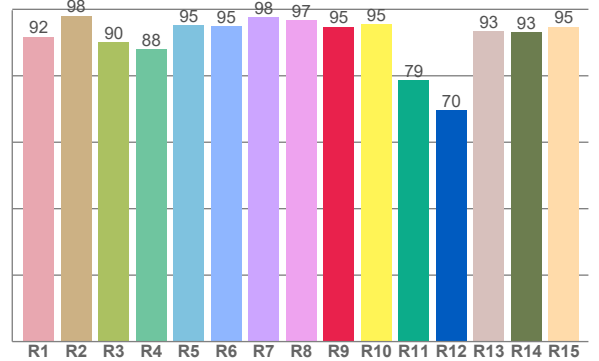




TM30: 91,1



CRI: 94,1 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,8 | 98,1 | 90,1 | 87,9 | 95,2 | 94,9 | 97,7 | 96,8 | 94,7 | 95,5 | 78,7 | 69,6 | 93,4 | 93,0 | 94,8 |

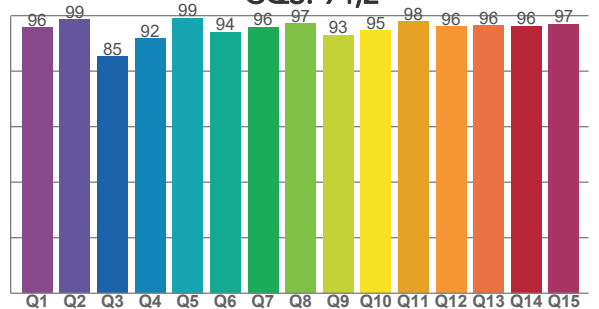
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,9 | 95,7 | 94,5 | 94,2 | 90,2 | 90,4 | 90,7 | 93,0 | 92,2 | 89,9 | 83,2 | 93,6 | 93,0 | 90,5 | 83,3 | 93,9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,7 | 98,7 | 85,2 | 91,7 | 99,1 | 94,0 | 95,9 | 97,1 | 93,1 | 94,6 | 97,8 | 96,1 | 96,4 | 96,3 | 97,0 |

CQS: 94,2



COLOR PARAMETERS

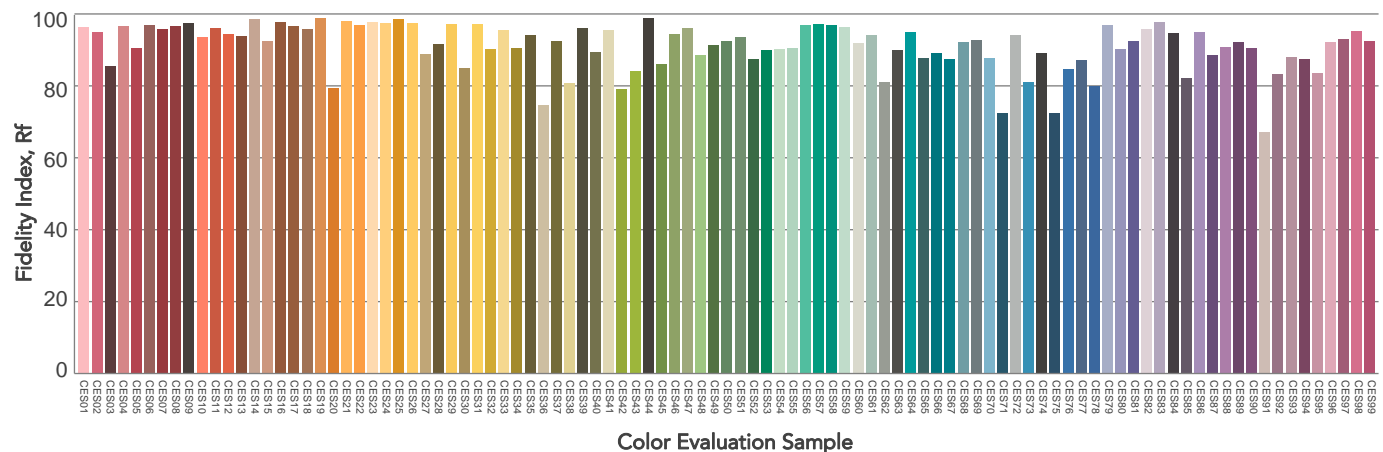
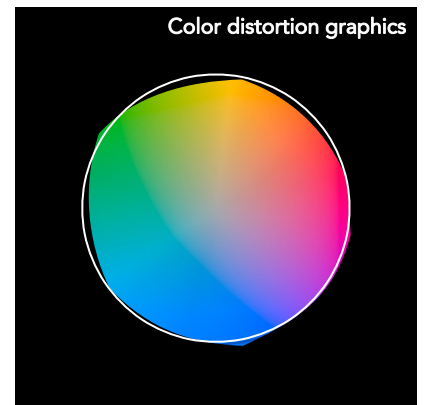
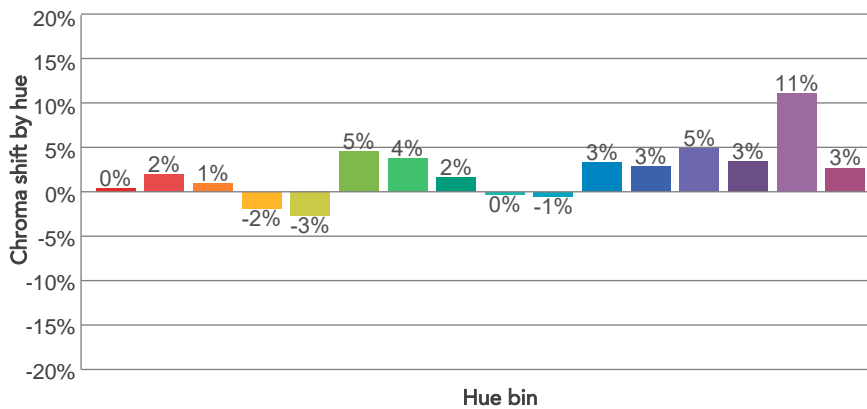
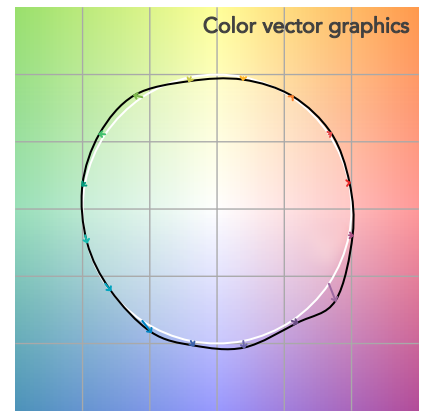
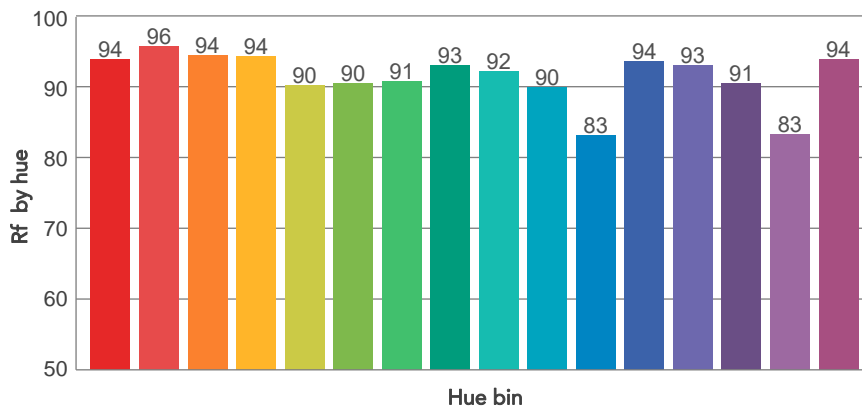
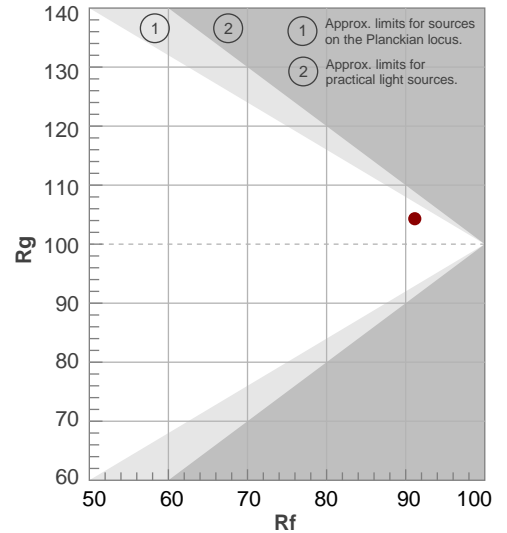
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 5608 K | 94,1 | 94,7 | 91,1 | 104,3 | 94,2 | 92 | 0,330 | 0,340 | 0,0028 |

TM30 DETAILS

Rf 91,1
Fidelity index Rf

Rg 104,3
Gammut index

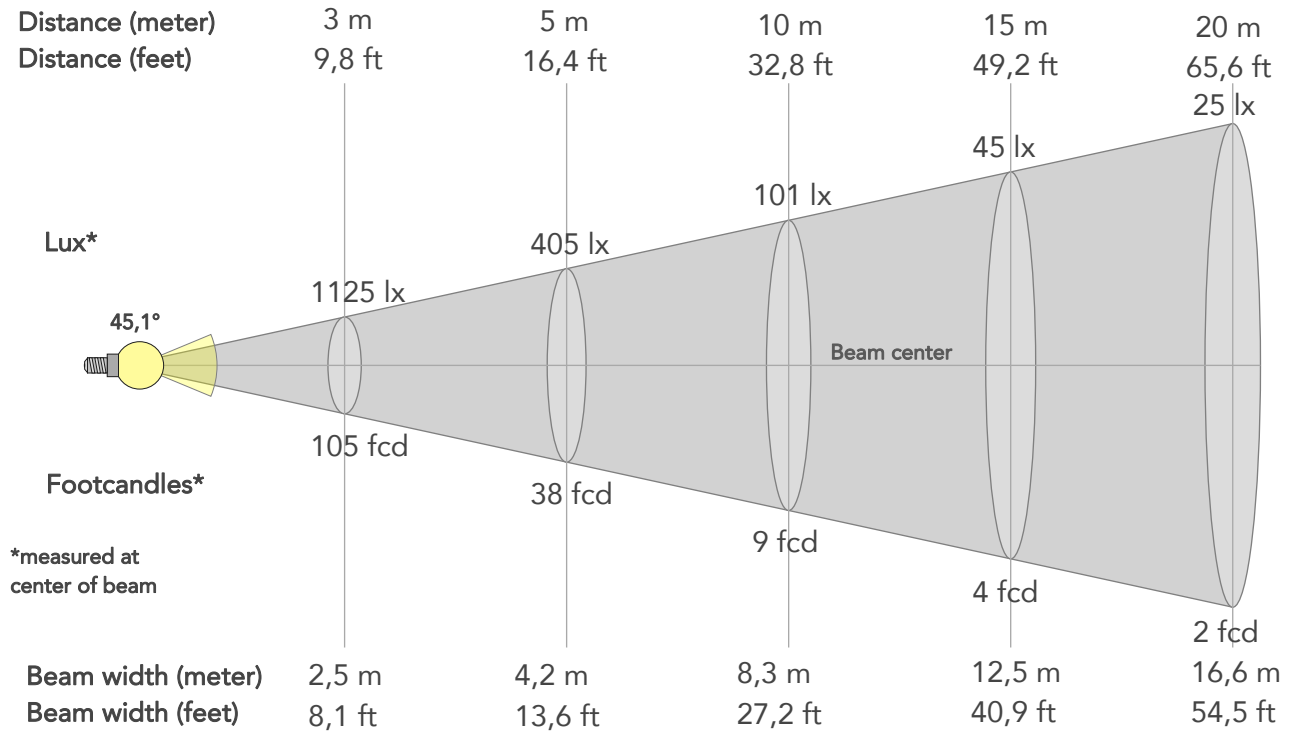
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 0% | 0% |
| 2 | 96 | 2% | 0% |
| 3 | 94 | 1% | 0% |
| 4 | 94 | -2% | 0% |
| 5 | 90 | -3% | 2% |
| 6 | 90 | 5% | 4% |
| 7 | 91 | 4% | 2% |
| 8 | 93 | 2% | 2% |
| 9 | 92 | 0% | 5% |
| 10 | 90 | -1% | 6% |
| 11 | 83 | 3% | 10% |
| 12 | 94 | 3% | 3% |
| 13 | 93 | 5% | 0% |
| 14 | 91 | 3% | 3% |
| 15 | 83 | 11% | -8% |
| 16 | 94 | 3% | 0% |



BEAM DETAILS



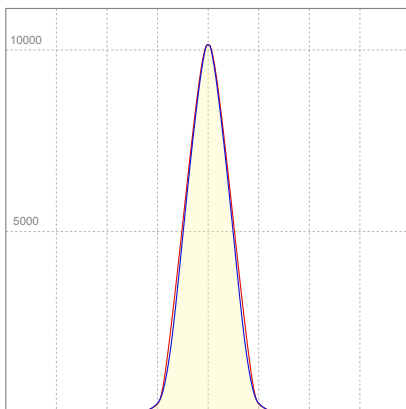
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45,1° | 76° | 90,5° | 98,7% | 96,5% |



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 | 10126lx | 2532lx | 1125lx | 633lx | 405lx | 180lx | 101lx | 45lx | 25lx | 16lx | 11lx | 6lx | 4lx |
| Footcand. | 941fcd | 235fcd | 105fcd | 59fcd | 38fcd | 17fcd | 9fcd | 4fcd | 2fcd | 2fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,3m | 4,2m | 6,2m | 8,3m | 12,5m | 16,6m | 20,8m | 24,9m | 33,2m | 41,5m |
| Beam wid. | 2,7ft | 5,5ft | 8,1ft | 10,9ft | 13,6ft | 20,4ft | 27,2ft | 40,9ft | 54,5ft | 68,1ft | 81,7ft | 109ft | 136,2ft |

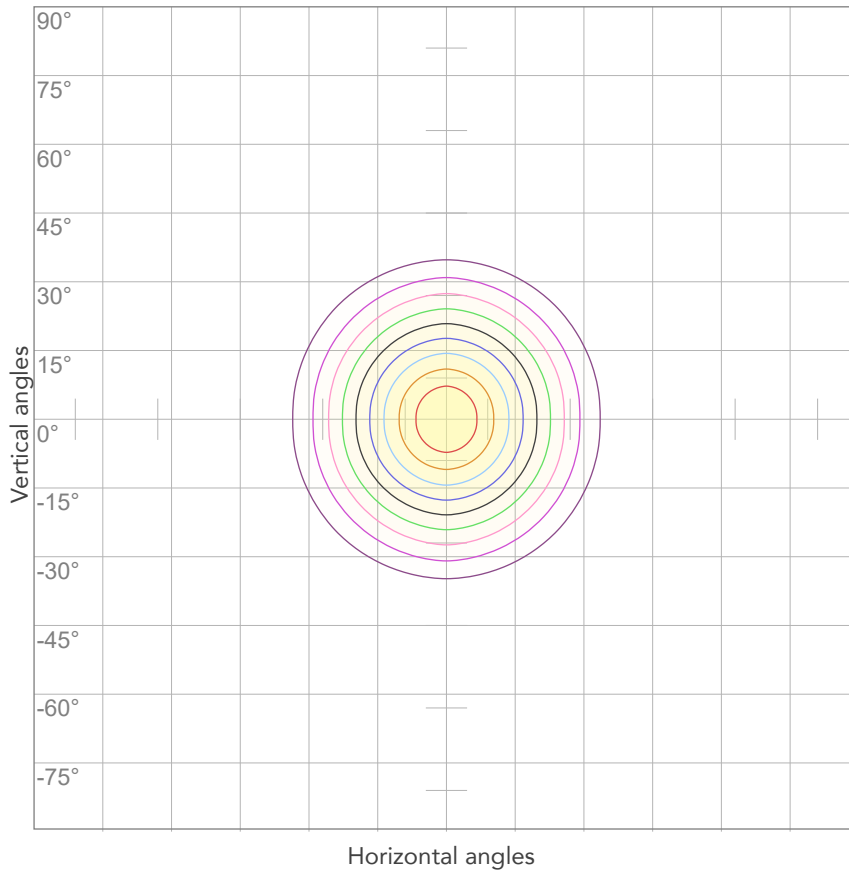
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 232V | 2,14A | 470,3W | 13lm/W |

ISO CANDELA DIAGRAM



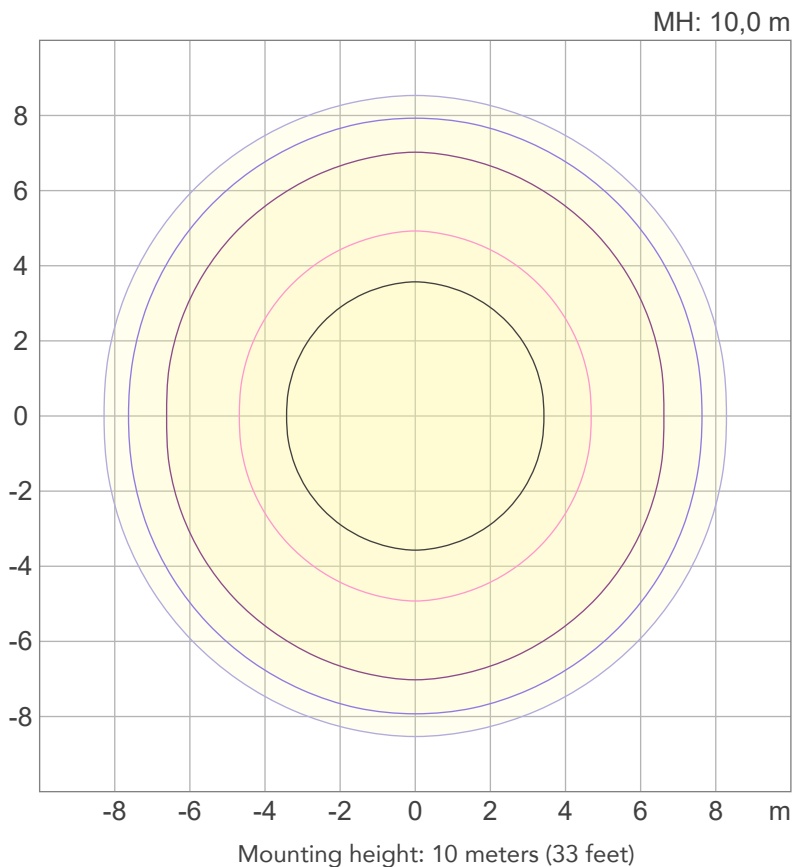
| | |
|-----|---------|
| 10% | 1013 cd |
| 20% | 2025 cd |
| 30% | 3038 cd |
| 40% | 4051 cd |
| 50% | 5063 cd |
| 60% | 6076 cd |
| 70% | 7089 cd |
| 80% | 8101 cd |

Conditions:

Number of c-planes: 4

Candela at center: 10126 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 3,04 lx |
| 5% | 5,06 lx |
| 10% | 10,1 lx |
| 30% | 30,4 lx |
| 50% | 50,6 lx |

Conditions:

Number of c-planes: 4

Lux at center: 101 lx

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



Total lumen output:

4482 lm

Peak candela output:

9376 cd

Light quality:

CRI: 94,2

Color temperature:

5972 K

PRODUCT NAME:

ECLPANEL TWC

MEASUREMENT CONDITIONS:

Beam angle:

MD Filter + 30° Egg Crate

Target:

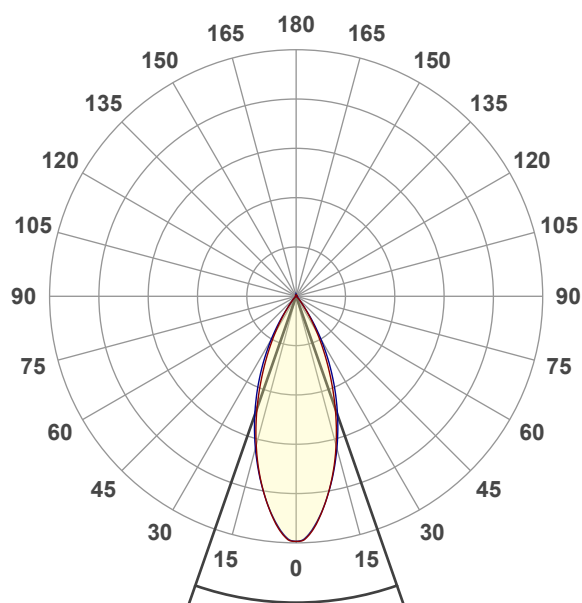
6000K -

Operator:

Paolo Carvone

Date and time:

17/03/2023 13:24:16

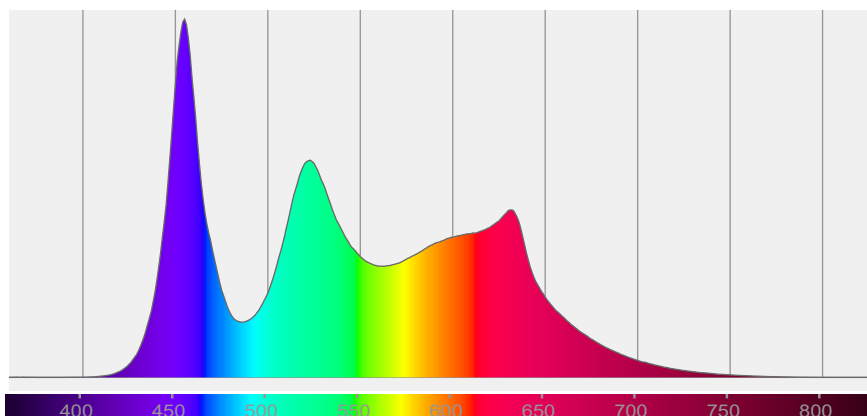


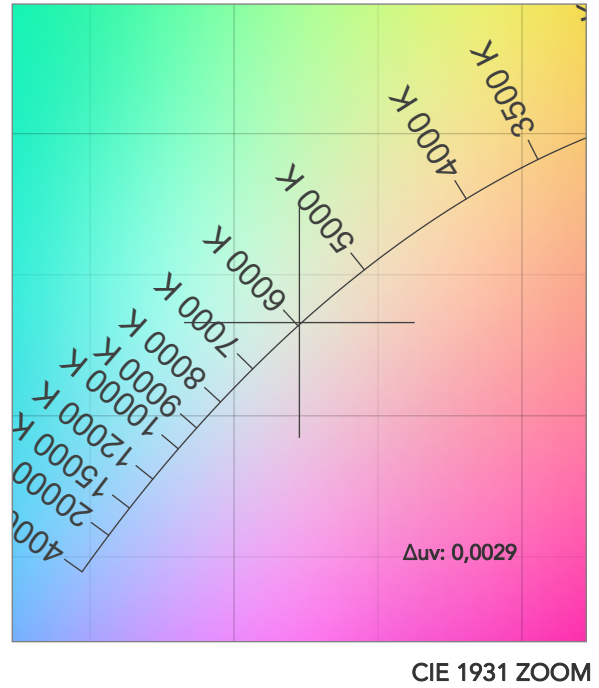
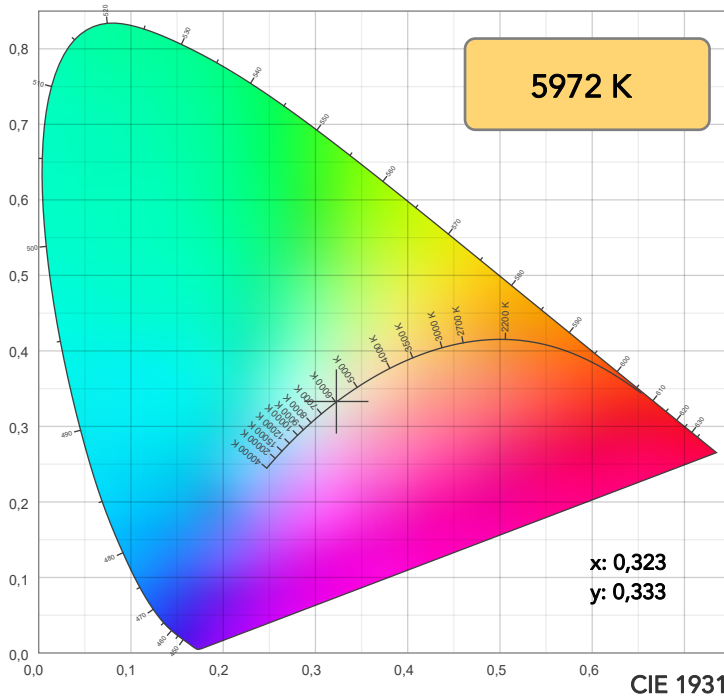
Beam angle 50%: 38,4°

Field angle 10%: 67,9°

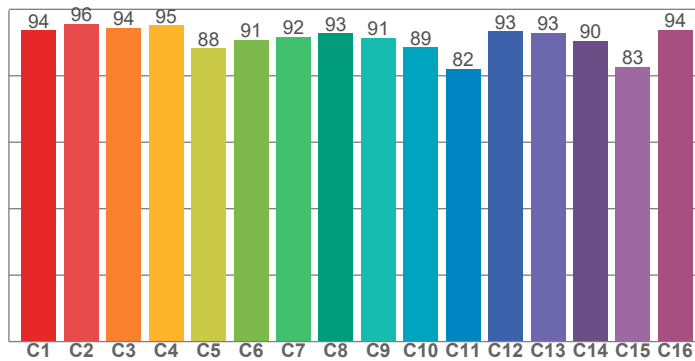
Cut off angle 2.5%: 81,9°

Spectra

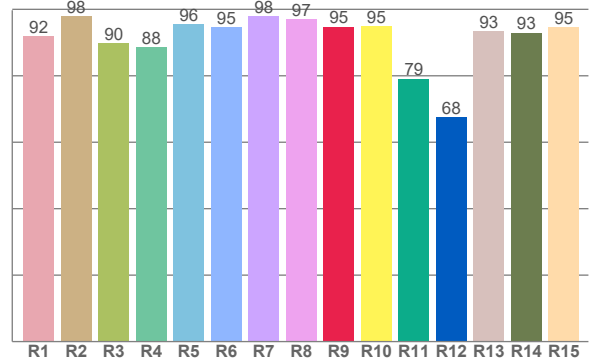




TM30: 90,8



CRI: 94,2 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,9 | 97,9 | 89,8 | 88,5 | 95,5 | 94,6 | 98,0 | 97,0 | 94,8 | 94,9 | 79,1 | 67,6 | 93,5 | 92,9 | 94,6 |

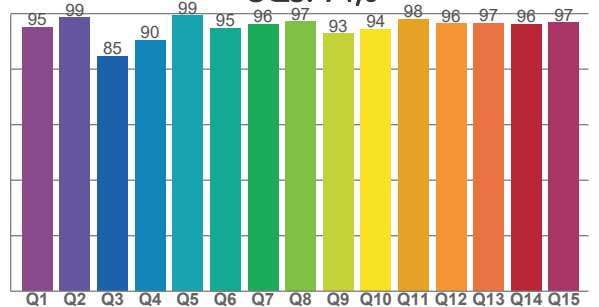
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,7 | 95,6 | 94,4 | 95,2 | 88,3 | 90,8 | 91,8 | 92,7 | 91,4 | 88,6 | 82,1 | 93,4 | 92,9 | 90,4 | 82,6 | 93,9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,1 | 98,6 | 84,6 | 90,4 | 99,3 | 94,8 | 96,1 | 97,1 | 92,8 | 94,3 | 98,1 | 96,4 | 96,5 | 96,2 | 96,7 |

CQS: 94,0



COLOR PARAMETERS

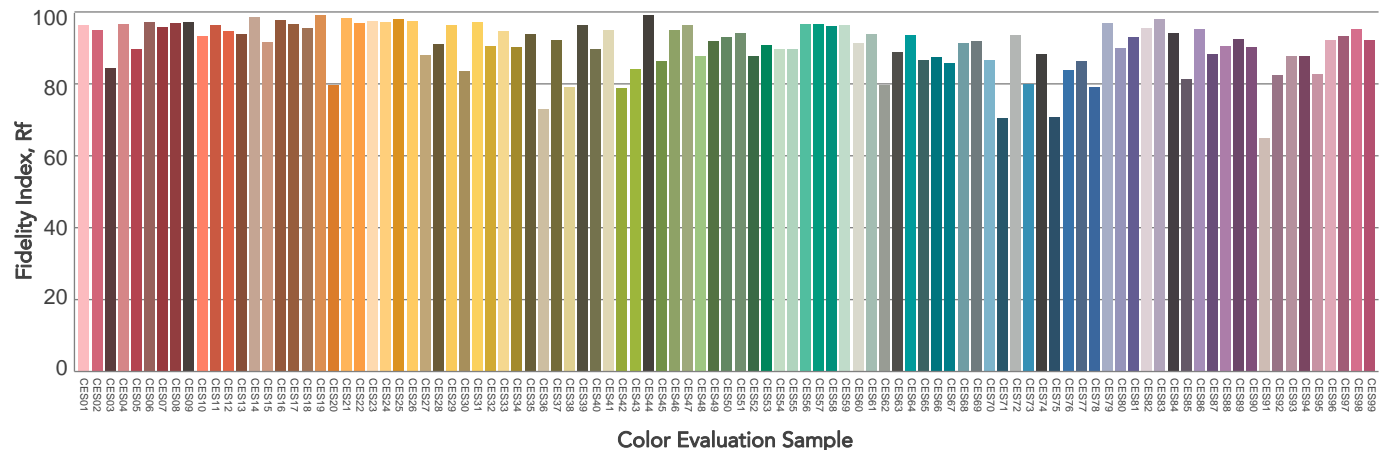
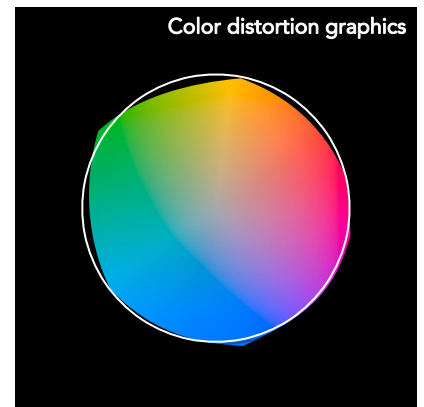
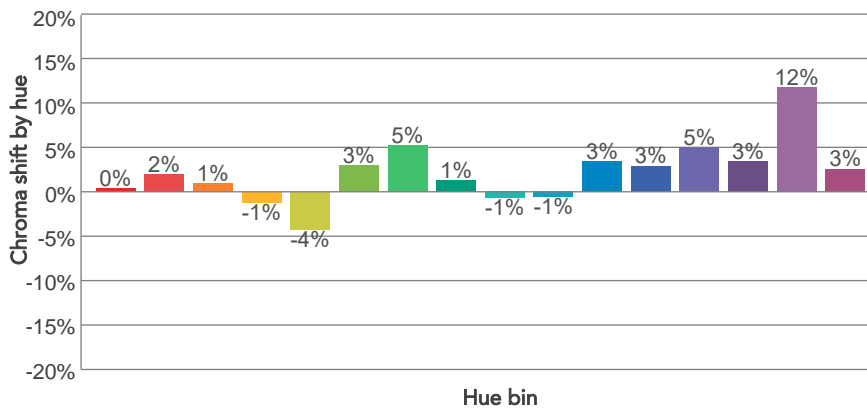
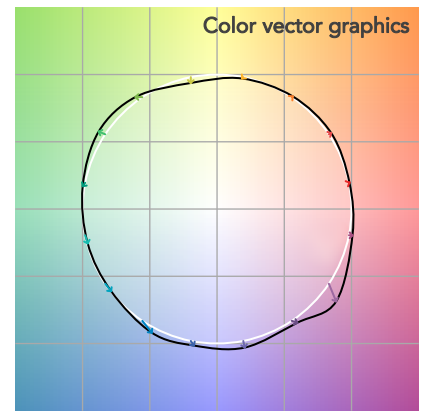
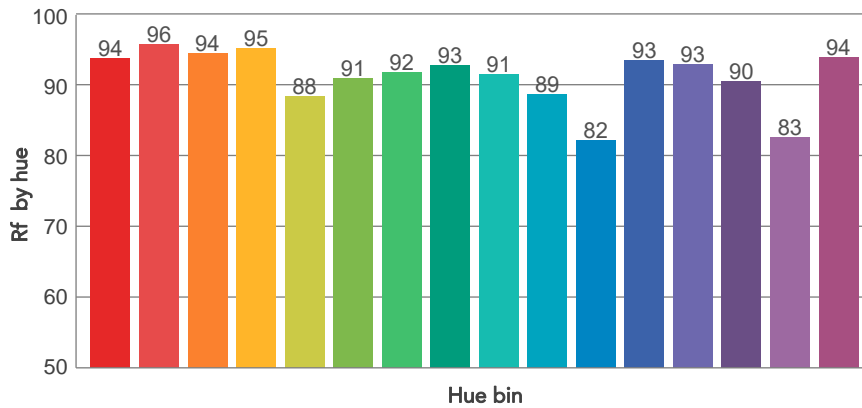
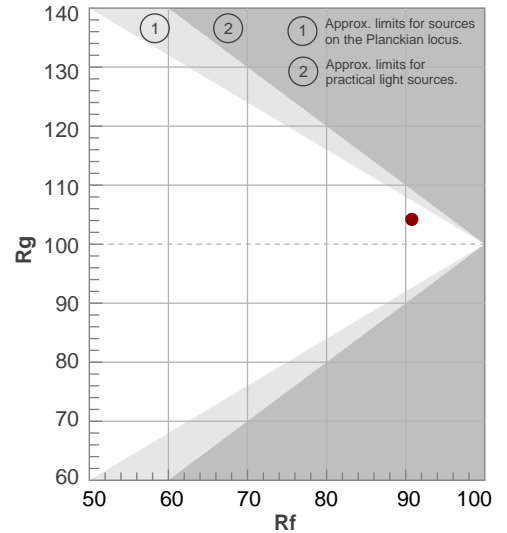
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 5972 K | 94,2 | 94,8 | 90,8 | 104,2 | 94,0 | 92 | 0,323 | 0,333 | 0,0029 |

TM30 DETAILS

Rf 90,8
Fidelity index Rf

Rg 104,2
Gammut index

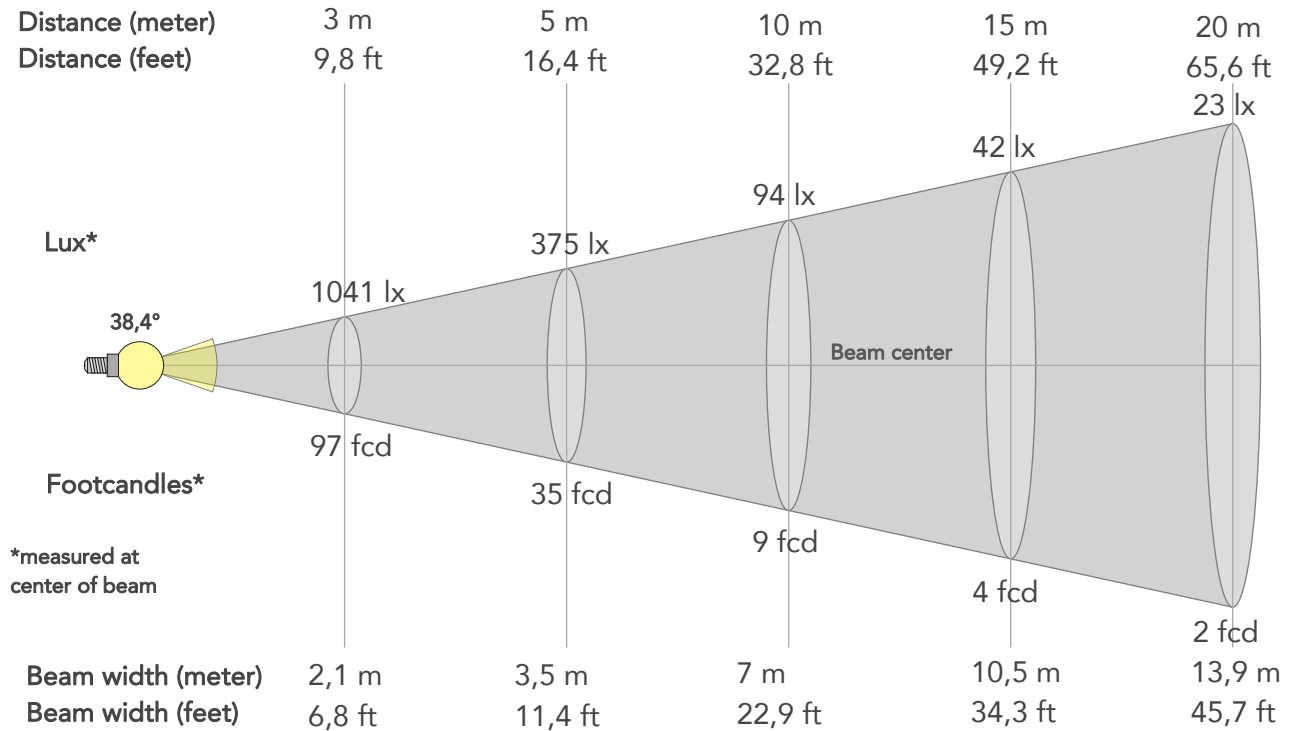
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 0% | 0% |
| 2 | 96 | 2% | 0% |
| 3 | 94 | 1% | 0% |
| 4 | 95 | -1% | 1% |
| 5 | 88 | -4% | 1% |
| 6 | 91 | 3% | 4% |
| 7 | 92 | 5% | 1% |
| 8 | 93 | 1% | 3% |
| 9 | 91 | -1% | 6% |
| 10 | 89 | -1% | 7% |
| 11 | 82 | 3% | 11% |
| 12 | 93 | 3% | 3% |
| 13 | 93 | 5% | 0% |
| 14 | 90 | 3% | 3% |
| 15 | 83 | 12% | -8% |
| 16 | 94 | 3% | 0% |



BEAM DETAILS



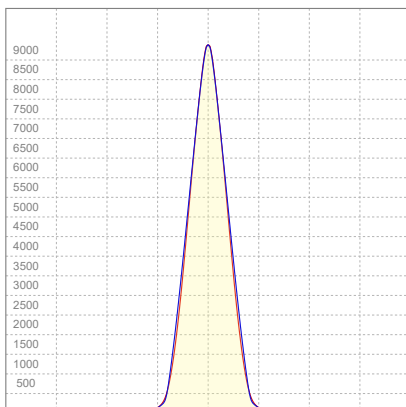
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 38,4° | 67,9° | 81,9° | 99,1% | 97,7% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 9369lx | 2342lx | 1041lx | 586lx | 375lx | 167lx | 94lx | 42lx | 23lx | 15lx | 10lx | 6lx | 4lx |
| Footcand. | 870fcd | 218fcd | 97fcd | 54fcd | 35fcd | 15fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,7m | 1,4m | 2,1m | 2,8m | 3,5m | 5,2m | 7m | 10,5m | 13,9m | 17,4m | 20,9m | 27,9m | 34,9m |
| Beam wid. | 2,3ft | 4,6ft | 6,8ft | 9,1ft | 11,4ft | 17,2ft | 22,9ft | 34,3ft | 45,7ft | 57,2ft | 68,6ft | 91,5ft | 114,4ft |

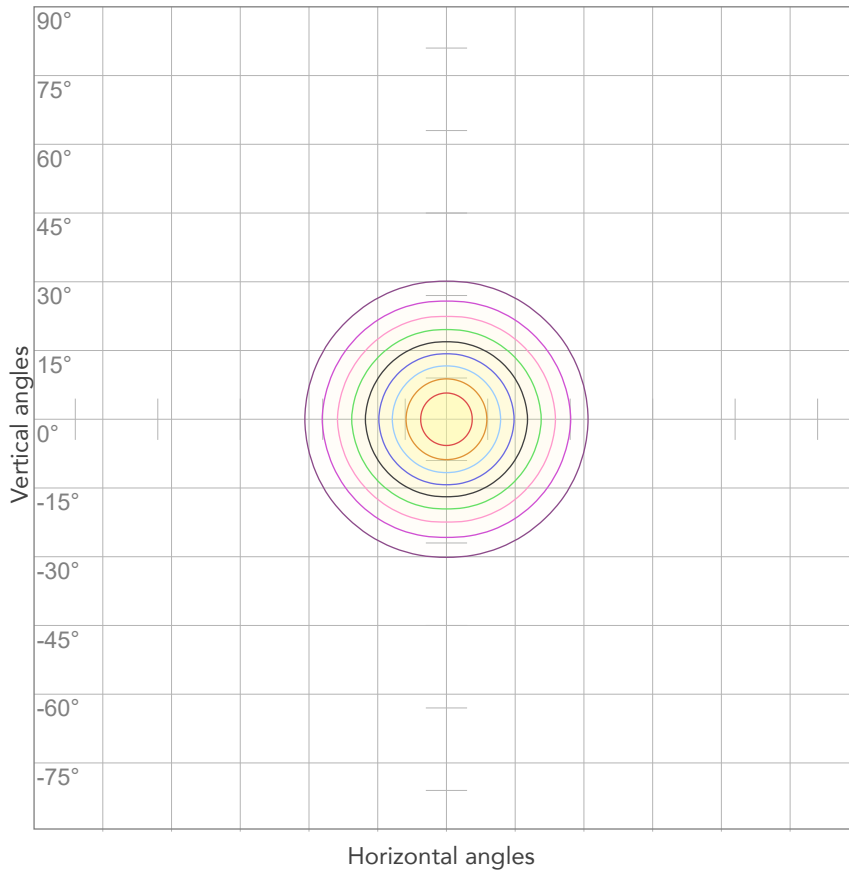
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 232V | 2,15A | 471,1W | 10lm/W |

ISO CANDELA DIAGRAM



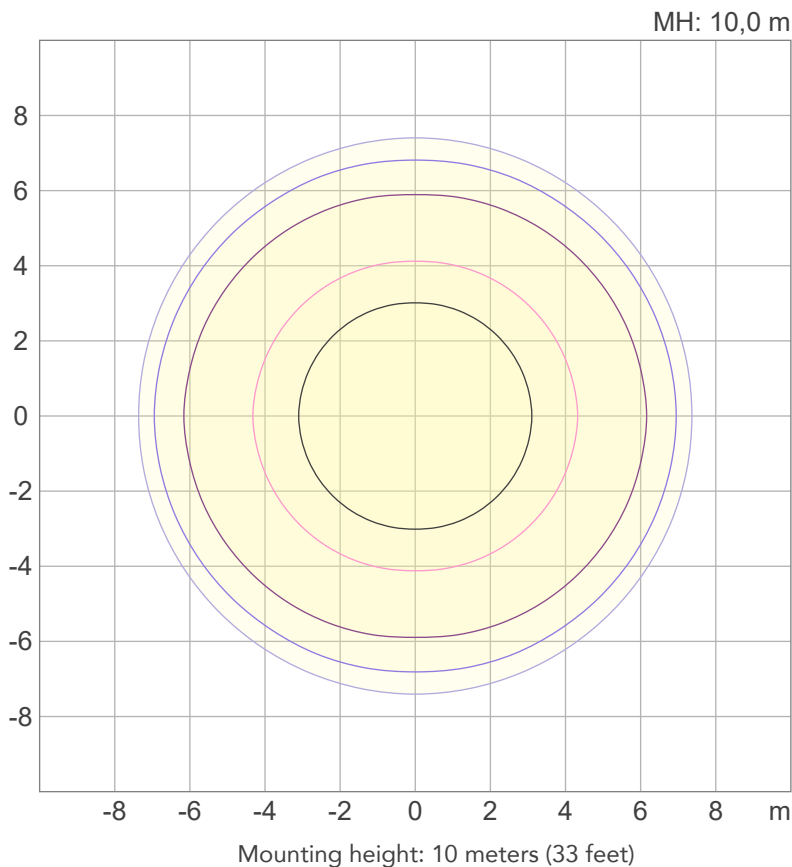
| | |
|-----|---------|
| 10% | 937 cd |
| 20% | 1874 cd |
| 30% | 2811 cd |
| 40% | 3747 cd |
| 50% | 4684 cd |
| 60% | 5621 cd |
| 70% | 6558 cd |
| 80% | 7495 cd |

Conditions:

Number of c-planes: 4

Candela at center: 9369 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 2,81 lx |
| 5% | 4,68 lx |
| 10% | 9,37 lx |
| 30% | 28,1 lx |
| 50% | 46,8 lx |

Conditions:

Number of c-planes: 4

Lux at center: 93,7 lx

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



Total lumen output:

6160 lm

Peak candela output:

9596 cd

Light quality:

CRI: 94,2

Color temperature:

5987 K

PRODUCT NAME:

ECLPANEL TWC

MEASURAMENT CONDITIONS:

Beam angle:

MD Filter + 60° Egg Crate

Target:

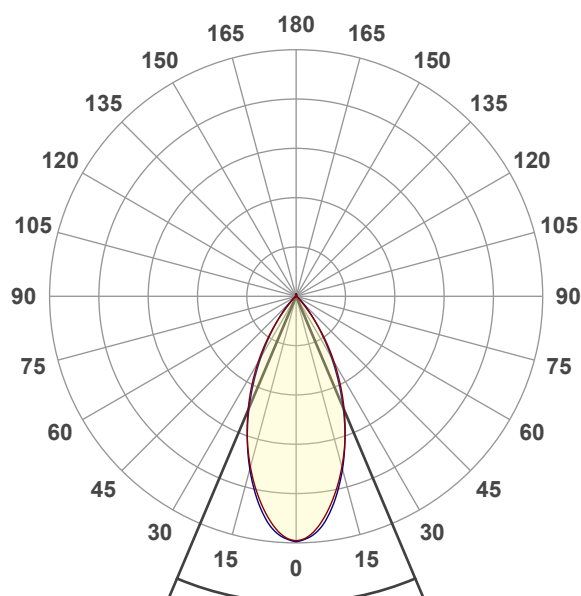
6000K -

Operator:

Paolo Carvone

Date and time:

17/03/2023 13:28:47

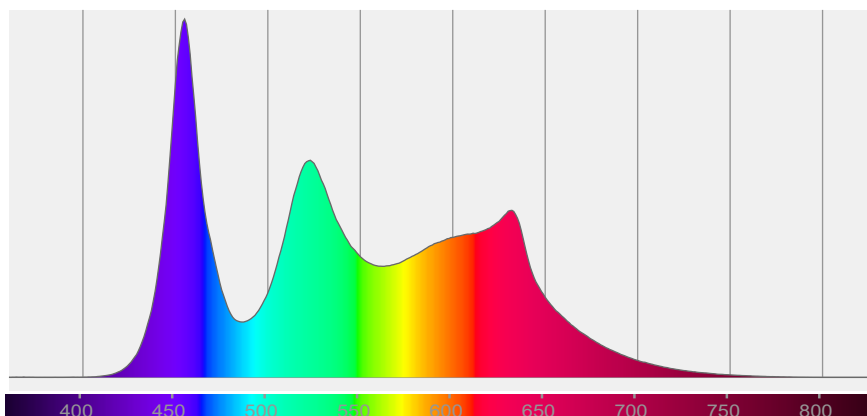


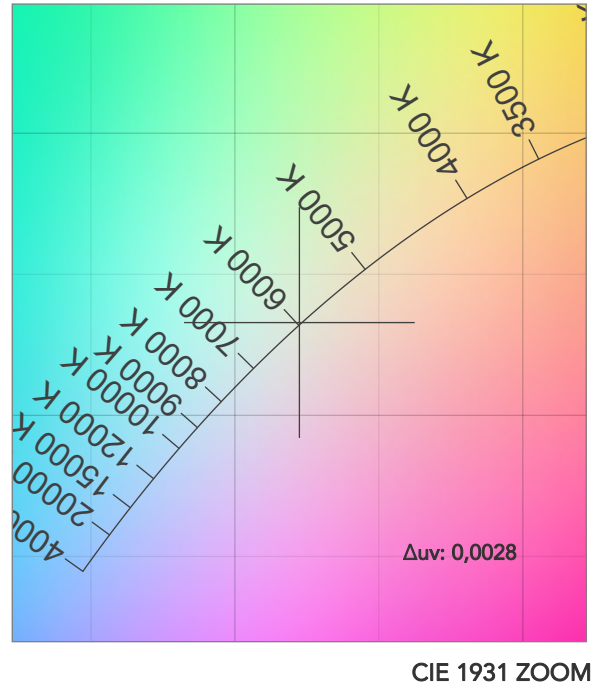
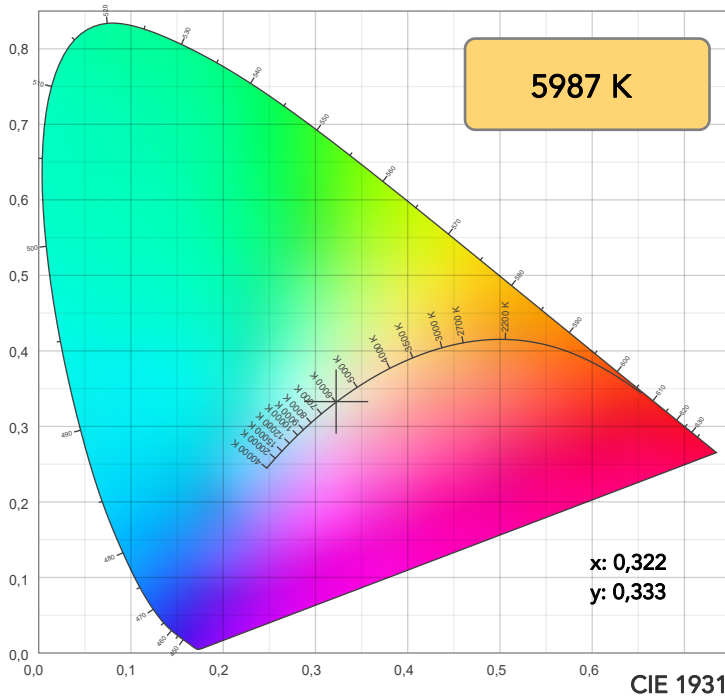
Beam angle 50%: 45,8°

Field angle 10%: 77,8°

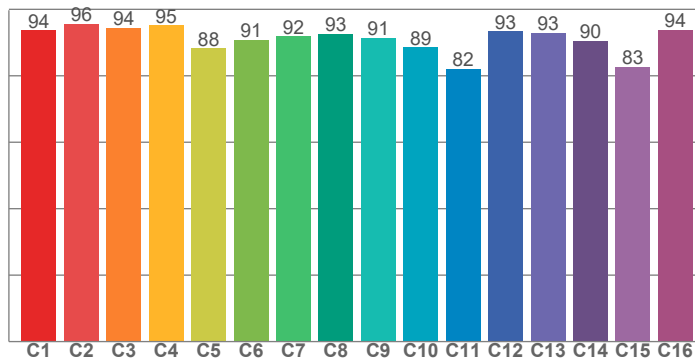
Cut off angle 2.5%: 92,4°

Spectra

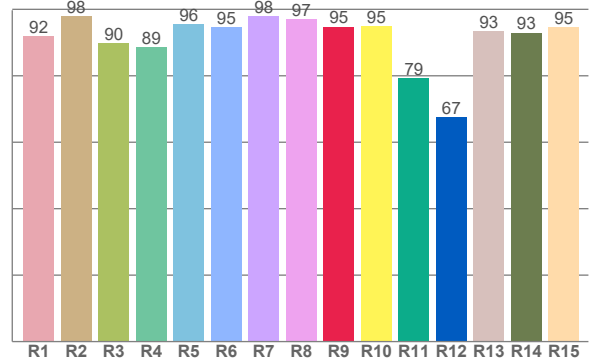




TM30: 90,8



CRI: 94,2 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91,9 | 97,9 | 89,8 | 88,6 | 95,6 | 94,6 | 98,0 | 97,0 | 94,8 | 94,9 | 79,2 | 67,5 | 93,5 | 92,9 | 94,6 |

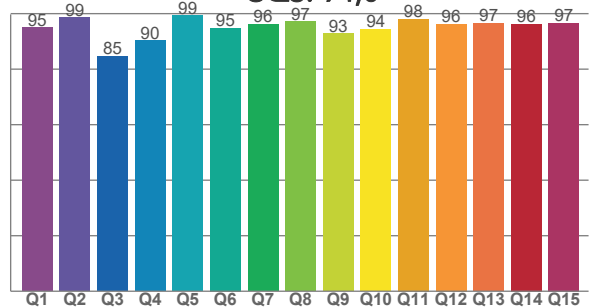
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,7 | 95,7 | 94,4 | 95,1 | 88,3 | 90,9 | 91,8 | 92,7 | 91,4 | 88,5 | 82,1 | 93,4 | 92,9 | 90,5 | 82,6 | 93,9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,0 | 98,6 | 84,6 | 90,4 | 99,3 | 94,8 | 96,1 | 97,1 | 92,8 | 94,3 | 98,1 | 96,3 | 96,5 | 96,2 | 96,7 |

CQS: 94,0

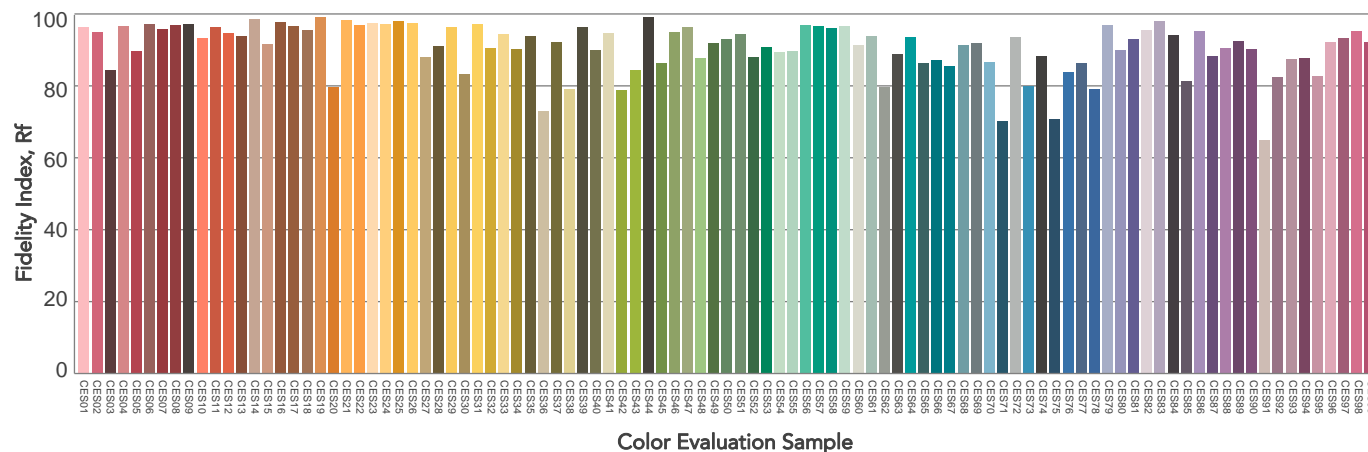
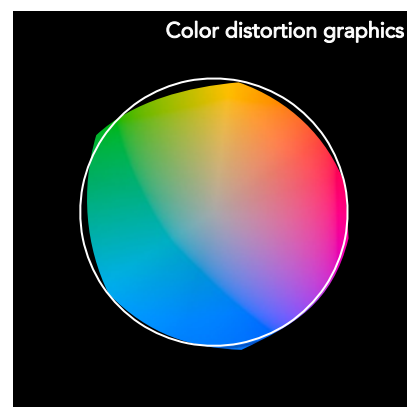
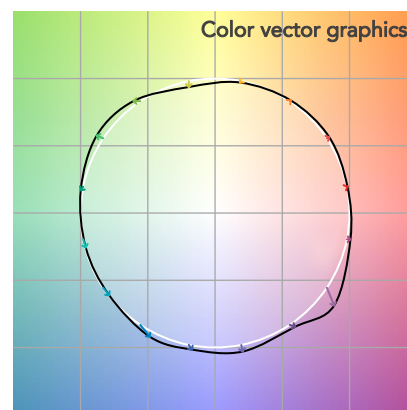
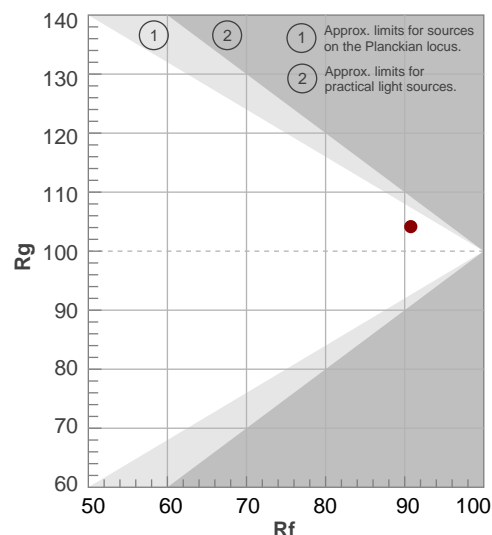


COLOR PARAMETERS

| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 5987 K | 94,2 | 94,8 | 90,8 | 104,2 | 94,0 | 92 | 0,322 | 0,333 | 0,0028 |

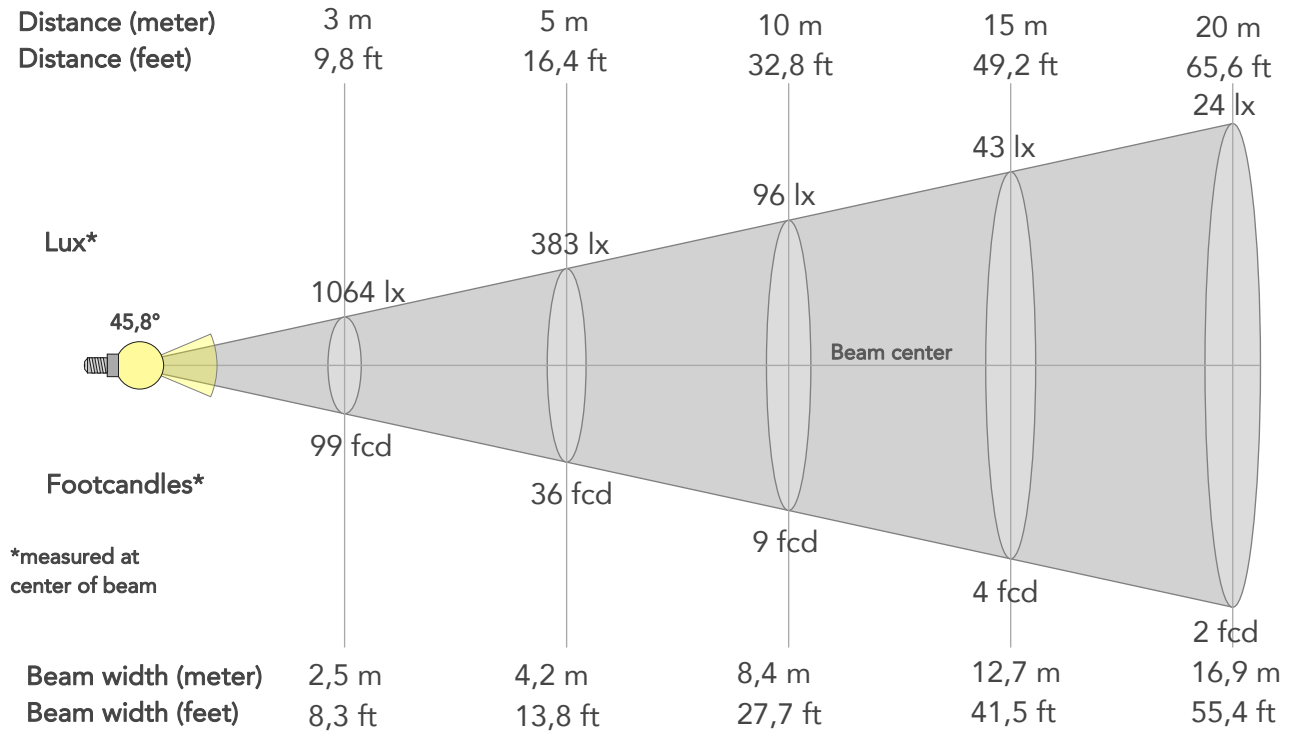
Gammut index

| | | Graphic shifts (%) | |
|---------|-------|--------------------|-----|
| Hue Bin | R_f | Chroma | Hue |
| 1 | 94 | 0% | 0% |
| 2 | 96 | 2% | 0% |
| 3 | 94 | 1% | 0% |
| 4 | 95 | -1% | 1% |
| 5 | 88 | -4% | 1% |
| 6 | 91 | 3% | 4% |
| 7 | 92 | 5% | 1% |
| 8 | 93 | 1% | 3% |
| 9 | 91 | -1% | 6% |
| 10 | 89 | -1% | 7% |
| 11 | 82 | 3% | 11% |
| 12 | 93 | 3% | 3% |
| 13 | 93 | 5% | 0% |
| 14 | 90 | 3% | 3% |
| 15 | 83 | 12% | -8% |
| 16 | 94 | 3% | 0% |



BEAM DETAILS

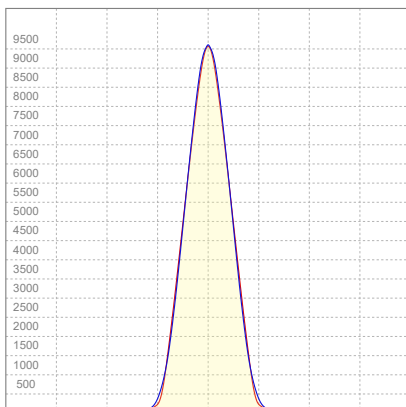
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45,8° | 77,8° | 92,4° | 98,7% | 96,2% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 9578lx | 2394lx | 1064lx | 599lx | 383lx | 170lx | 96lx | 43lx | 24lx | 15lx | 11lx | 6lx | 4lx |
| Footcand. | 890fcd | 222fcd | 99fcd | 56fcd | 36fcd | 16fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,4m | 4,2m | 6,3m | 8,4m | 12,7m | 16,9m | 21,1m | 25,3m | 33,8m | 42,2m |
| Beam wid. | 2,8ft | 5,6ft | 8,3ft | 11,1ft | 13,8ft | 20,8ft | 27,7ft | 41,5ft | 55,4ft | 69,2ft | 83,1ft | 110,8ft | 138,5ft |

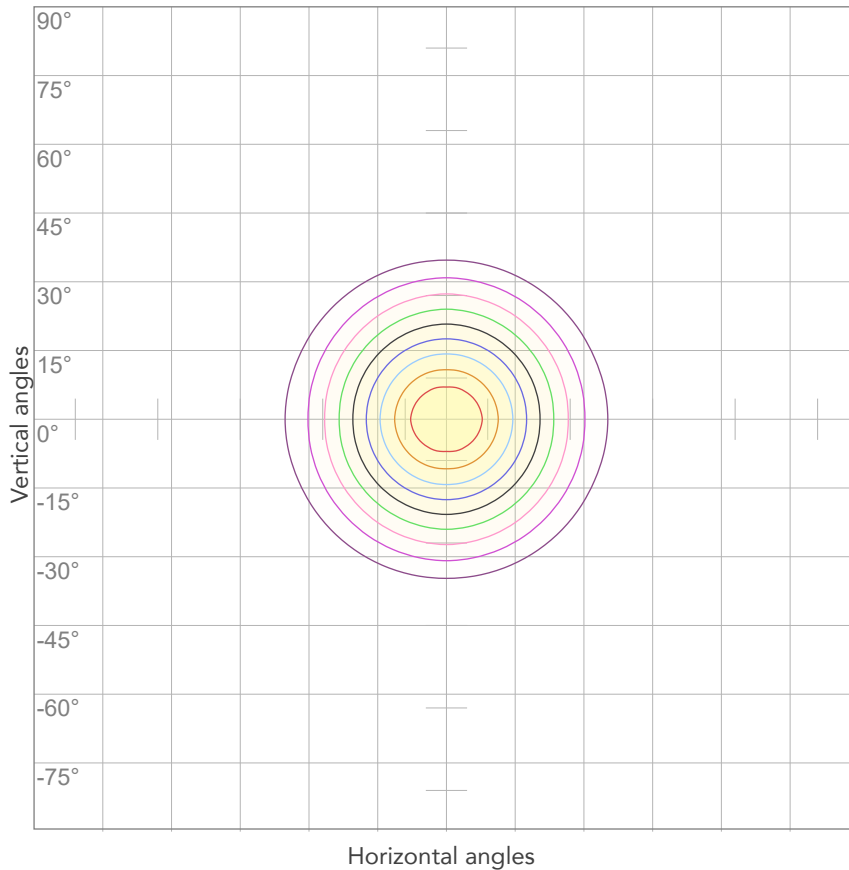
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 232V | 2,14A | 470,6W | 13lm/W |

ISO CANDELA DIAGRAM



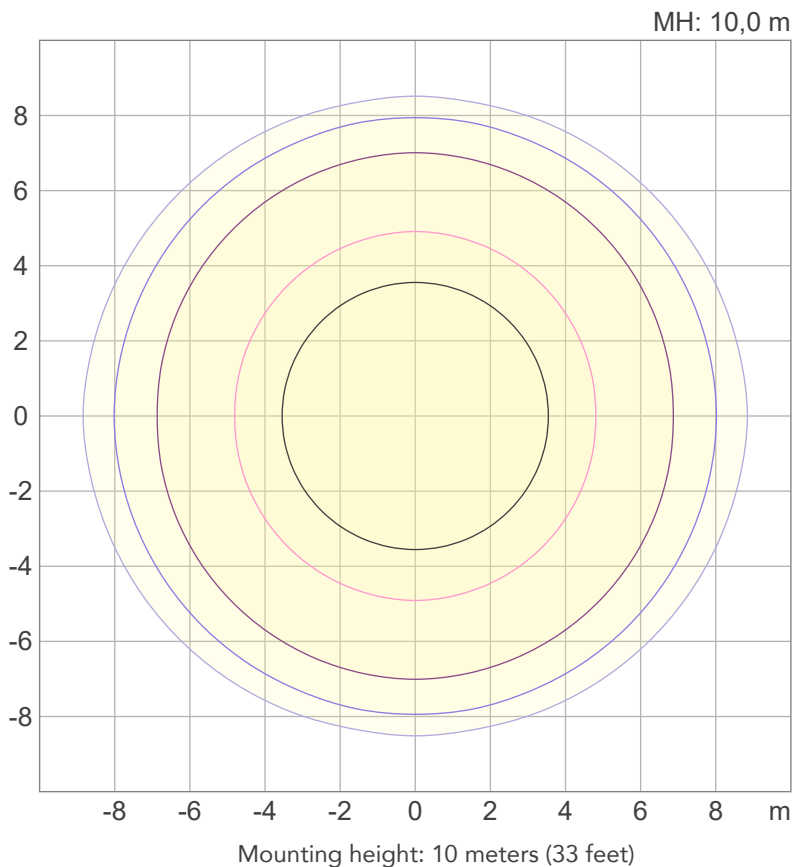
| | |
|-----|---------|
| 10% | 958 cd |
| 20% | 1916 cd |
| 30% | 2873 cd |
| 40% | 3831 cd |
| 50% | 4789 cd |
| 60% | 5747 cd |
| 70% | 6705 cd |
| 80% | 7662 cd |

Conditions:

Number of c-planes: 4

Candela at center: 9578 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 2,87 lx |
| 5% | 4,79 lx |
| 10% | 9,58 lx |
| 30% | 28,7 lx |
| 50% | 47,9 lx |

Conditions:

Number of c-planes: 4

Lux at center: 95,8 lx

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