



Photometric Test Report



ECLFS PRL26

High power RGBL full spectrum ellipsoidal LED

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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:

6104 lm

Peak candela output:

42785 cd

PRODUCT NAME:

ECLFS

MEASURAMENT CONDITIONS:

Beam angle:

PRL26

Target:

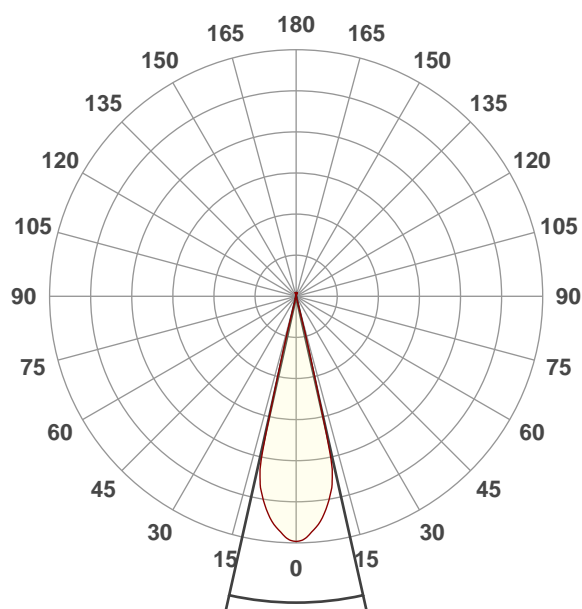
Full on

Operator:

Paolo Carvone

Date and time:

04/03/2020 09:17:22

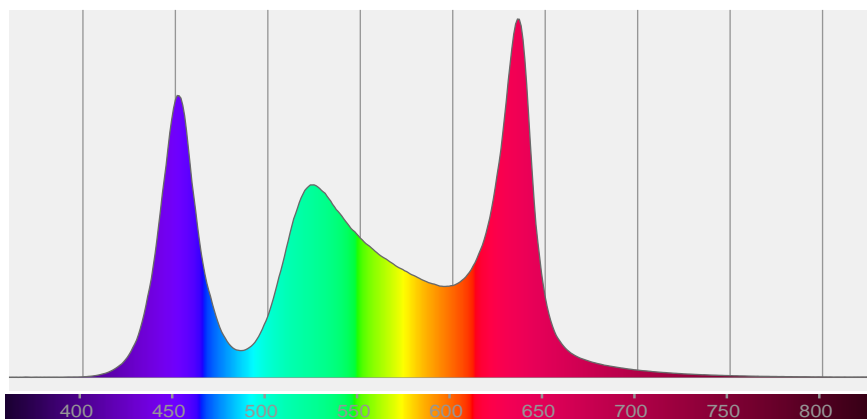


Beam angle 50%: 25,3°

Field angle 10%: 28,2°

Cut off angle 2.5%: 29°

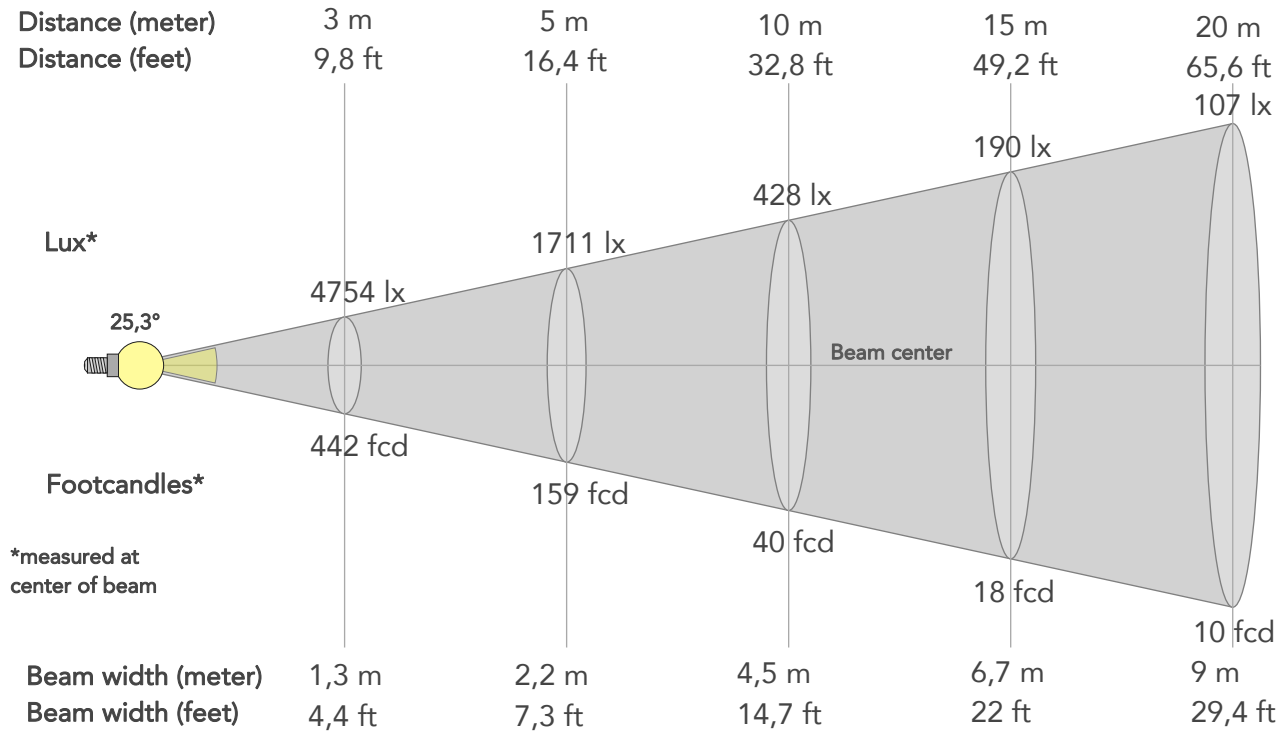
Spectra



BEAM DETAILS



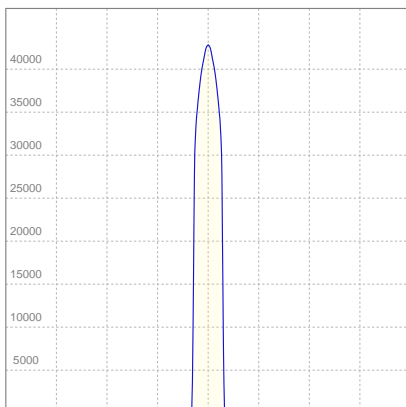
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 25,3° | 28,2° | 29° | 96,6% | 96,3% |



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 | 42785lx | 10696lx | 4754lx | 2674lx | 1711lx | 761lx | 428lx | 190lx | 107lx | 68lx | 48lx | 27lx | 17lx |
| Footcand. | 3975fcd | 994fcd | 442fcd | 248fcd | 159fcd | 71fcd | 40fcd | 18fcd | 10fcd | 6fcd | 4fcd | 2fcd | 2fcd |
| Beam wid. | 0,4m | 0,9m | 1,3m | 1,8m | 2,2m | 3,4m | 4,5m | 6,7m | 9m | 11,2m | 13,4m | 17,9m | 22,4m |
| Beam wid. | 1,5ft | 3ft | 4,4ft | 5,9ft | 7,3ft | 11ft | 14,7ft | 22ft | 29,4ft | 36,7ft | 44,1ft | 58,8ft | 73,5ft |

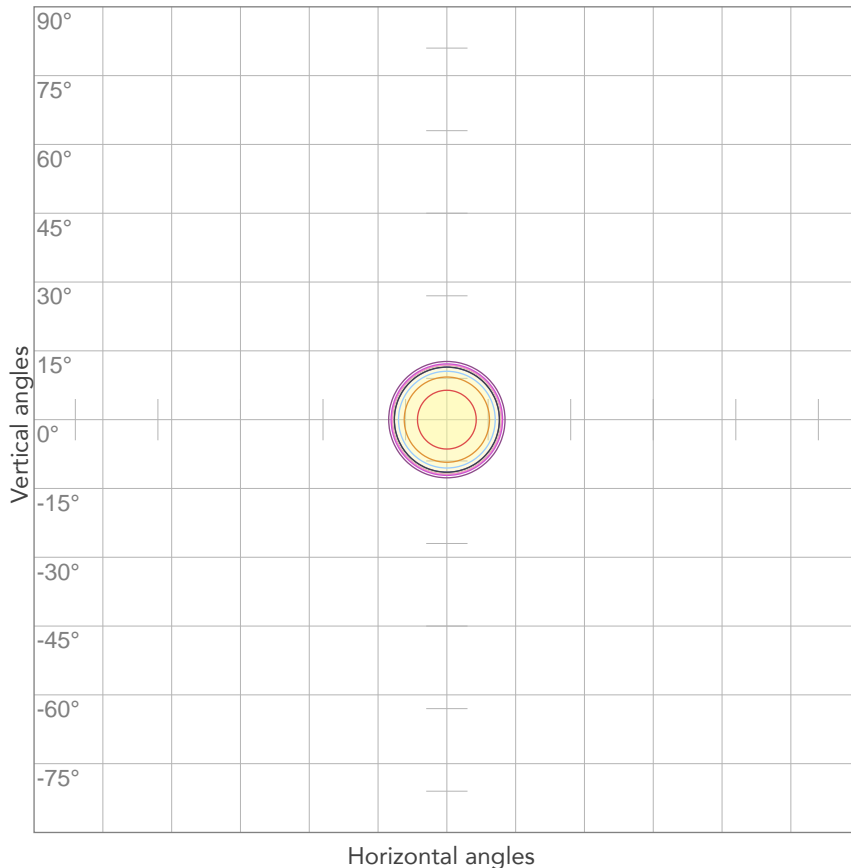
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 224V | 0,921A | 196,3W | 31lm/W |
| Power FC | | | |
| 0,96 | | | |

ISO CANDELA DIAGRAM



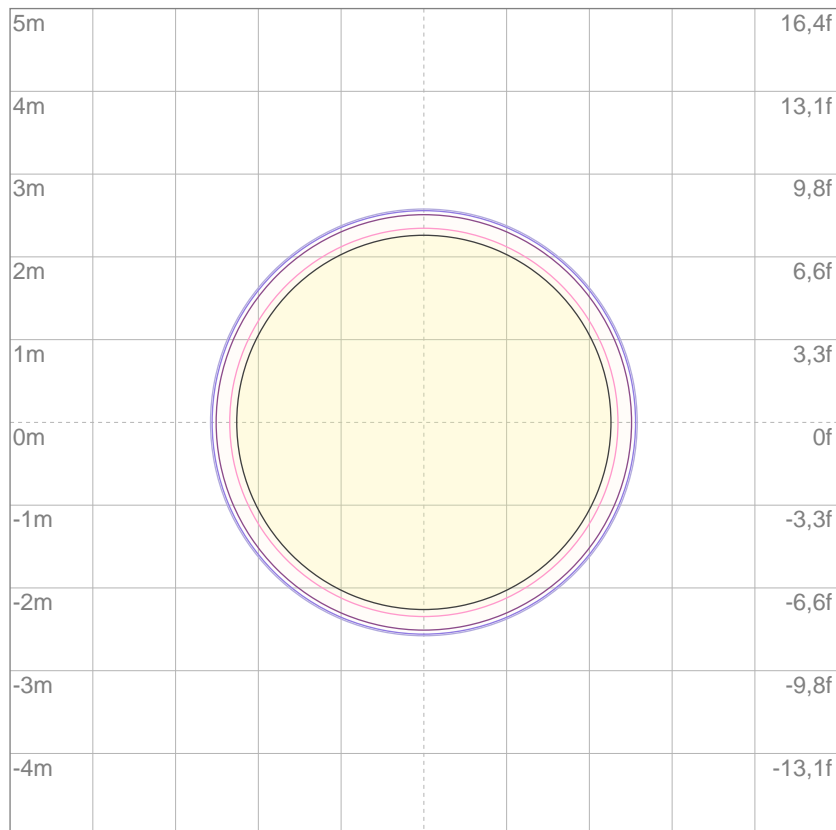
| | |
|-----|----------|
| 10% | 4278 cd |
| 20% | 8557 cd |
| 30% | 12835 cd |
| 40% | 17114 cd |
| 50% | 21392 cd |
| 60% | 25671 cd |
| 70% | 29949 cd |
| 80% | 34228 cd |

Conditions:

Number of c-planes: 2

Candela at center: 42785 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 12,8 lx |
| 5% | 21,4 lx |
| 10% | 42,8 lx |
| 30% | 128 lx |
| 50% | 214 lx |

Conditions:

Number of c-planes: 2

Lux at center: 428 lx

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



Total lumen output:

950 lm

Peak candela output:

6590 cd

PRODUCT NAME:

ECLFS

MEASURAMENT CONDITIONS:

Beam angle:

PRL26

Target:

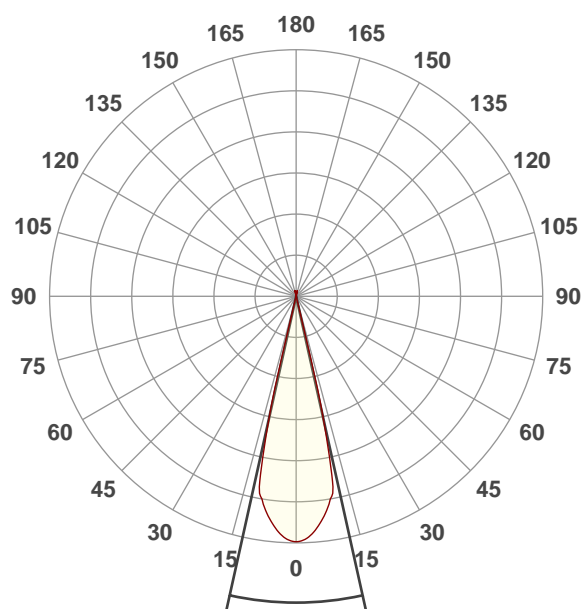
Red

Operator:

Paolo Carvone

Date and time:

04/03/2020 09:19:17

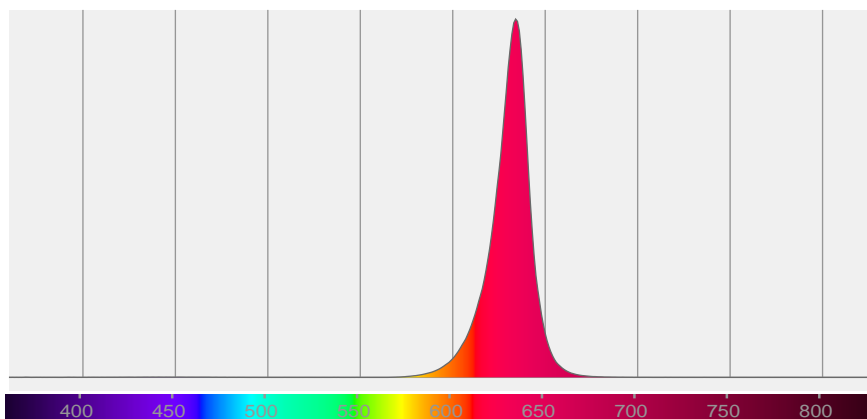


Beam angle 50%: 25,1°

Field angle 10%: 28,4°

Cut off angle 2.5%: 29°

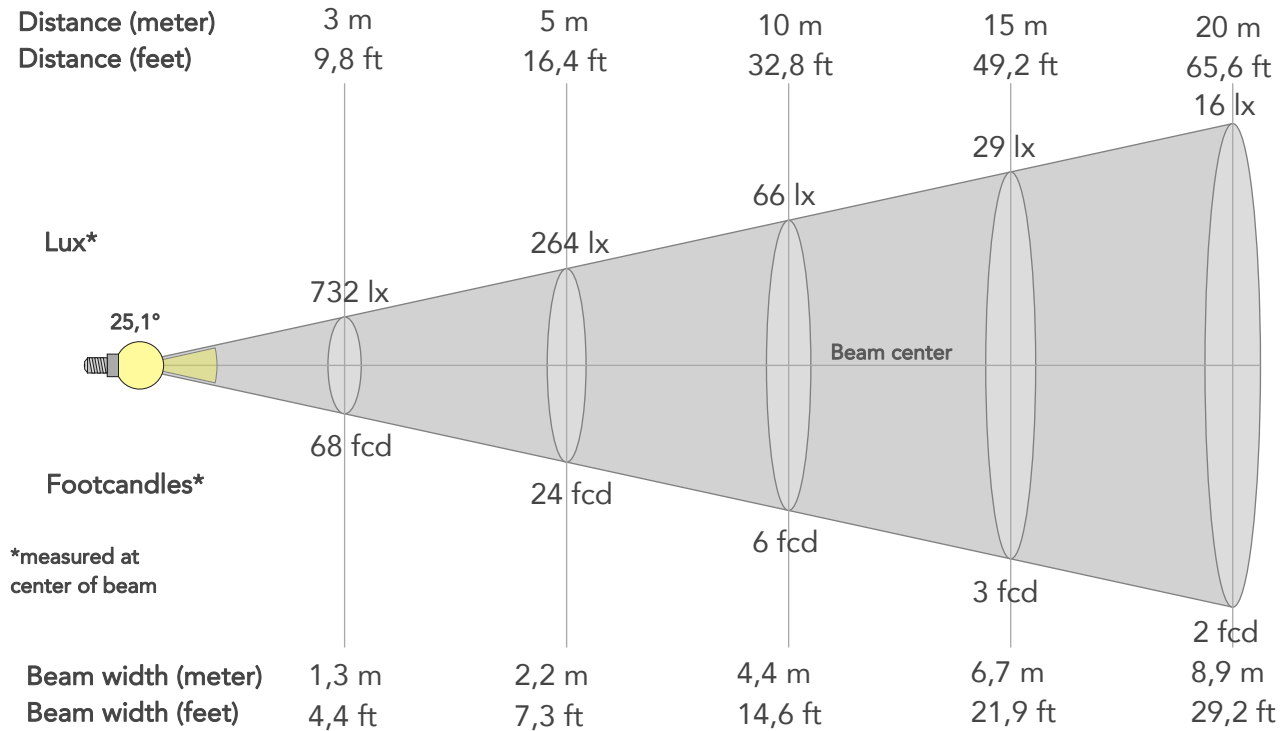
Spectra



BEAM DETAILS



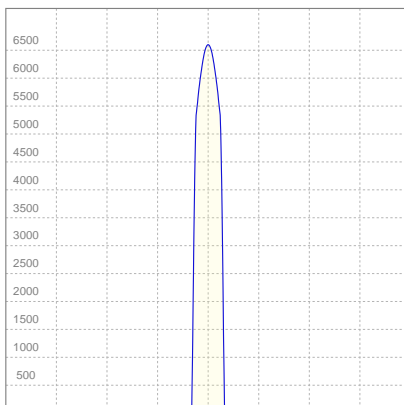
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 25,1° | 28,4° | 29° | 96,5% | 96,2% |



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 | 6590lx | 1647lx | 732lx | 412lx | 264lx | 117lx | 66lx | 29lx | 16lx | 11lx | 7lx | 4lx | 3lx |
| Footcand. | 612fcd | 153fcd | 68fcd | 38fcd | 24fcd | 11fcd | 6fcd | 3fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd |
| Beam wid. | 0,4m | 0,9m | 1,3m | 1,8m | 2,2m | 3,3m | 4,4m | 6,7m | 8,9m | 11,1m | 13,3m | 17,8m | 22,2m |
| Beam wid. | 1,5ft | 2,9ft | 4,4ft | 5,8ft | 7,3ft | 10,9ft | 14,6ft | 21,9ft | 29,2ft | 36,4ft | 43,7ft | 58,3ft | 72,9ft |

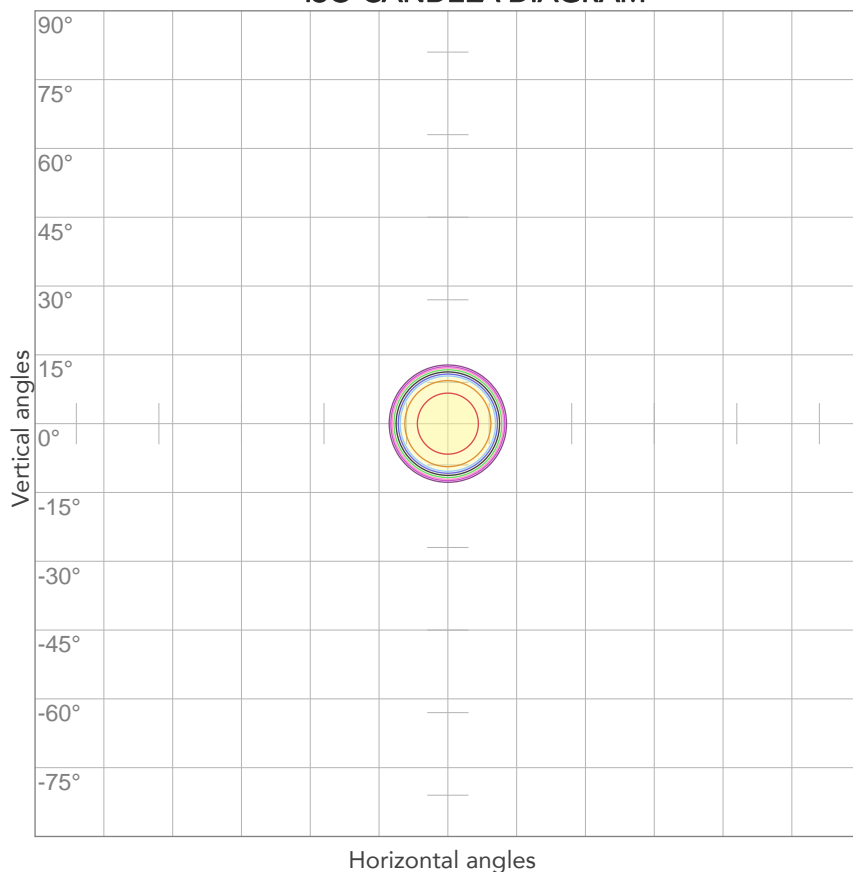
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 225V | 0,284A | 47,6W | 20lm/W |
| Power FC | | | |
| 0,96 | | | |

ISO CANDELA DIAGRAM



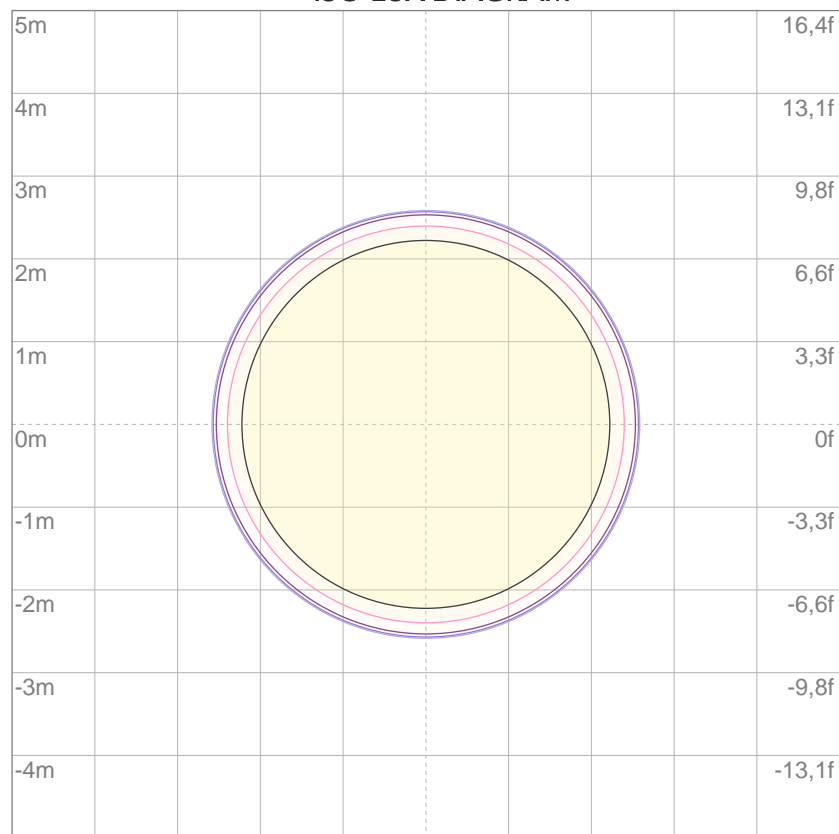
| | |
|-----|---------|
| 10% | 659 cd |
| 20% | 1318 cd |
| 30% | 1977 cd |
| 40% | 2636 cd |
| 50% | 3295 cd |
| 60% | 3954 cd |
| 70% | 4613 cd |
| 80% | 5272 cd |

Conditions:

Number of c-planes: 2

Candela at center: 6590 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,98 lx |
| 5% | 3,29 lx |
| 10% | 6,59 lx |
| 30% | 19,8 lx |
| 50% | 32,9 lx |

Conditions:

Number of c-planes: 2

Lux at center: 65,9 lx

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



Total lumen output:

1245 lm

Peak candela output:

9134 cd

PRODUCT NAME:

ECLFS

MEASURAMENT CONDITIONS:

Beam angle:

PRL26

Target:

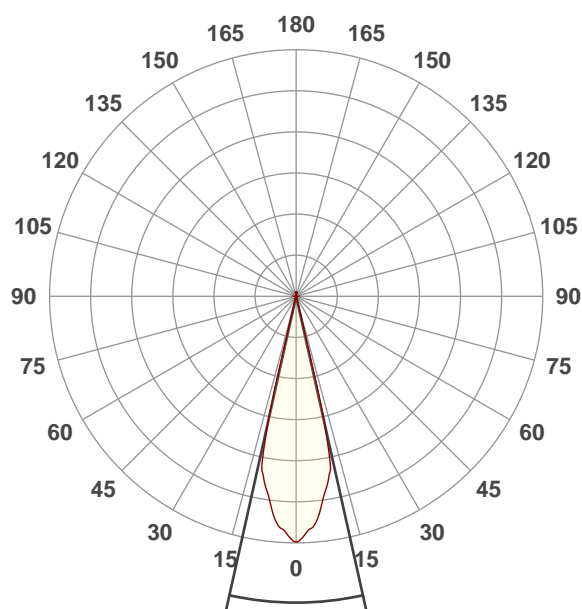
Green

Operator:

Paolo Carvone

Date and time:

04/03/2020 09:20:49

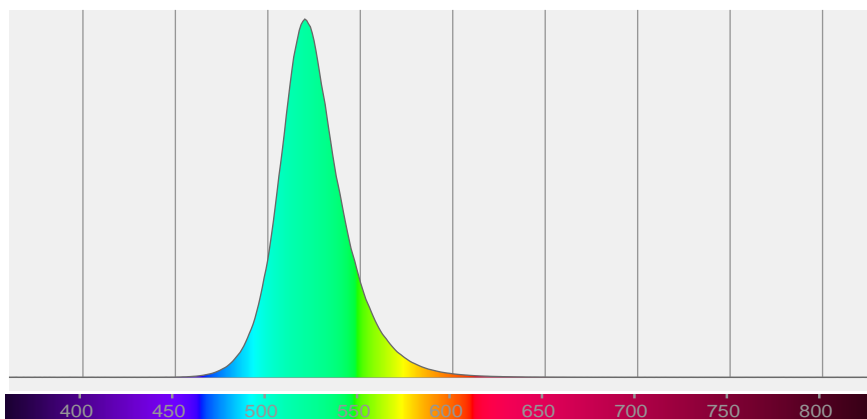


Beam angle 50%: 25,2°

Field angle 10%: 27,7°

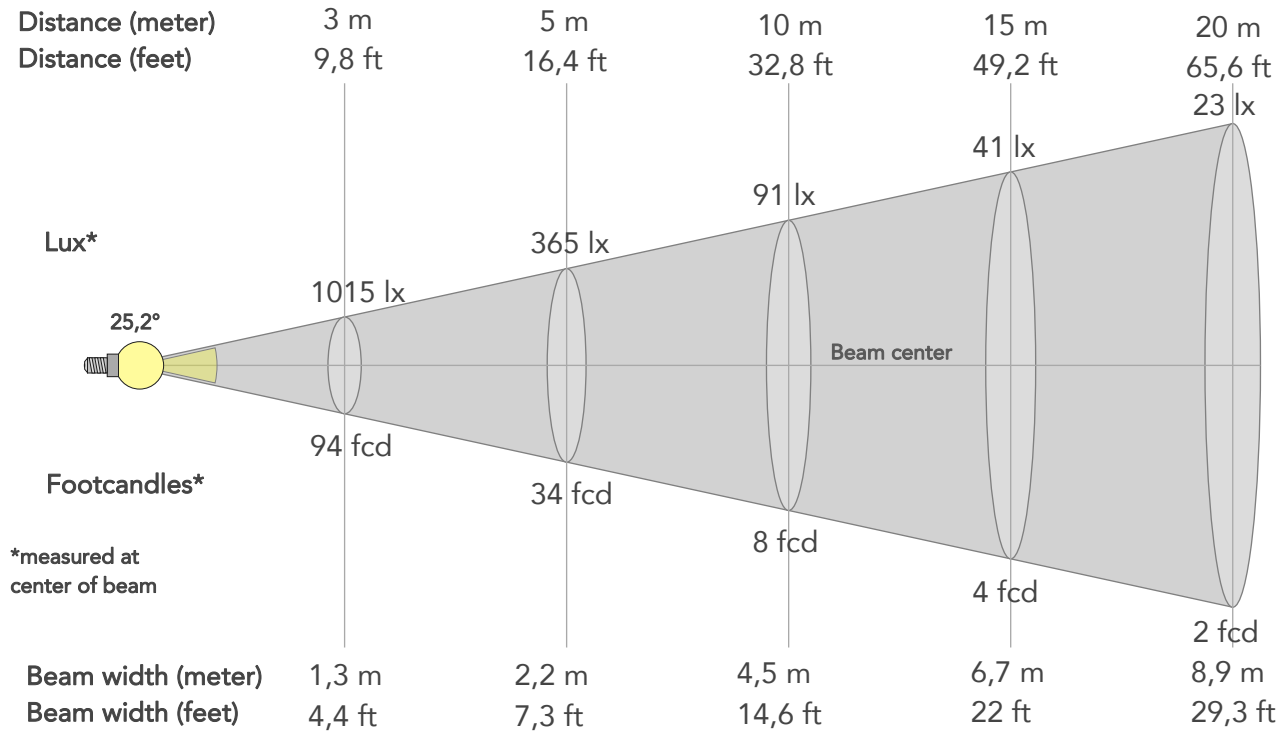
Cut off angle 2.5%: 28,5°

Spectra



BEAM DETAILS

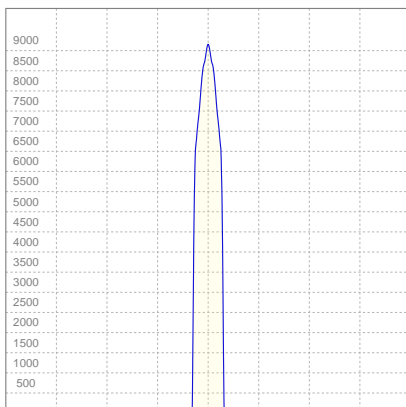
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 25,2° | 27,7° | 28,5° | 96,2% | 95,9% |



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 | 9134lx | 2283lx | 1015lx | 571lx | 365lx | 162lx | 91lx | 41lx | 23lx | 15lx | 10lx | 6lx | 4lx |
| Footcand. | 849fcd | 212fcd | 94fcd | 53fcd | 34fcd | 15fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,4m | 0,9m | 1,3m | 1,8m | 2,2m | 3,3m | 4,5m | 6,7m | 8,9m | 11,2m | 13,4m | 17,9m | 22,3m |
| Beam wid. | 1,5ft | 2,9ft | 4,4ft | 5,9ft | 7,3ft | 11ft | 14,6ft | 22ft | 29,3ft | 36,6ft | 43,9ft | 58,6ft | 73,2ft |

LINEAR DISTRIBUTION DIAGRAM

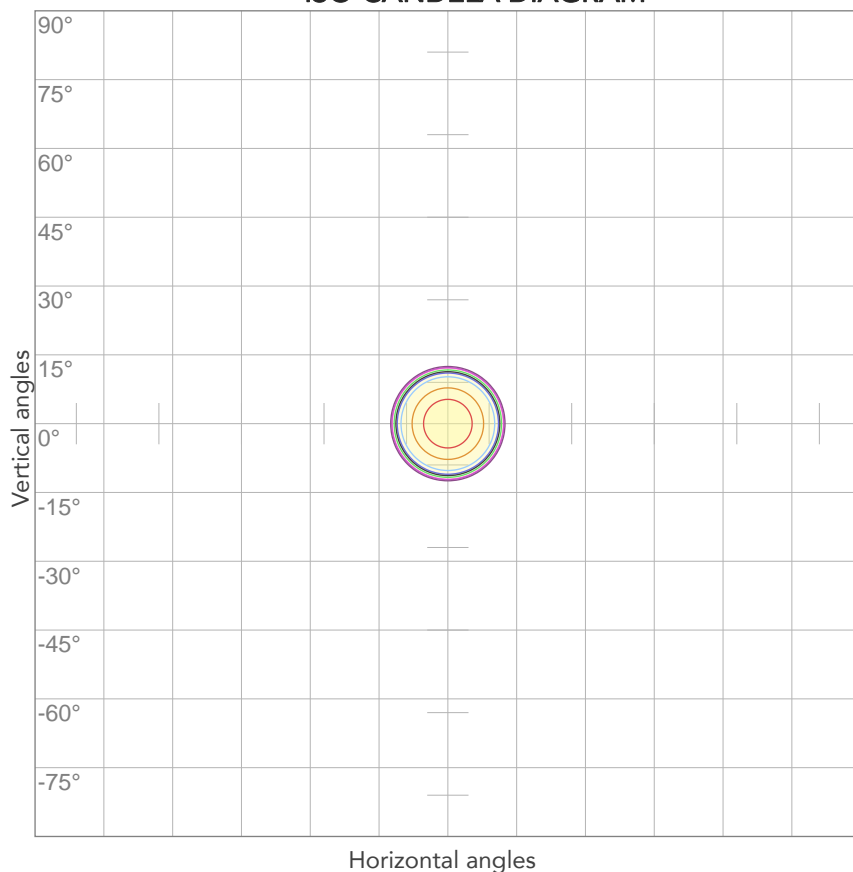


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 225V | 0,273A | 44,4W | 28lm/W |

| Power FC |
|----------|
| 0,96 |

ISO CANDELA DIAGRAM



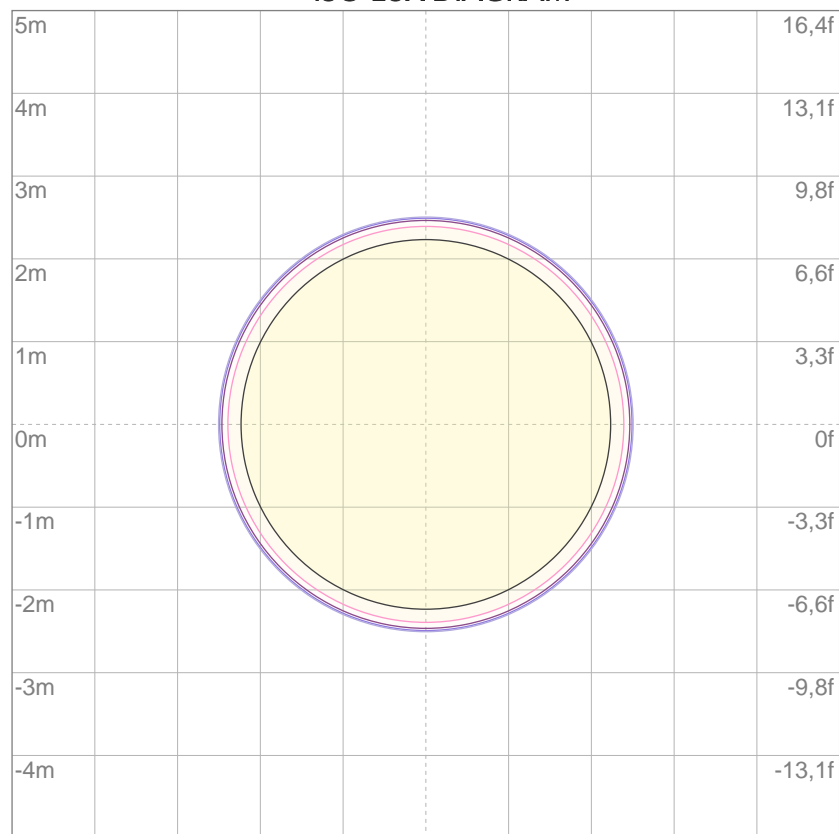
| | |
|-----|---------|
| 10% | 913 cd |
| 20% | 1827 cd |
| 30% | 2740 cd |
| 40% | 3654 cd |
| 50% | 4567 cd |
| 60% | 5480 cd |
| 70% | 6394 cd |
| 80% | 7307 cd |

Conditions:

Number of c-planes: 2

Candela at center: 9134 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 2,74 lx |
| 5% | 4,57 lx |
| 10% | 9,13 lx |
| 30% | 27,4 lx |
| 50% | 45,7 lx |

Conditions:

Number of c-planes: 2

Lux at center: 91,3 lx

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



Total lumen output:

201 lm

Peak candela output:

1456 cd

PRODUCT NAME:

ECLFS

MEASURAMENT CONDITIONS:

Beam angle:

PRL26

Target:

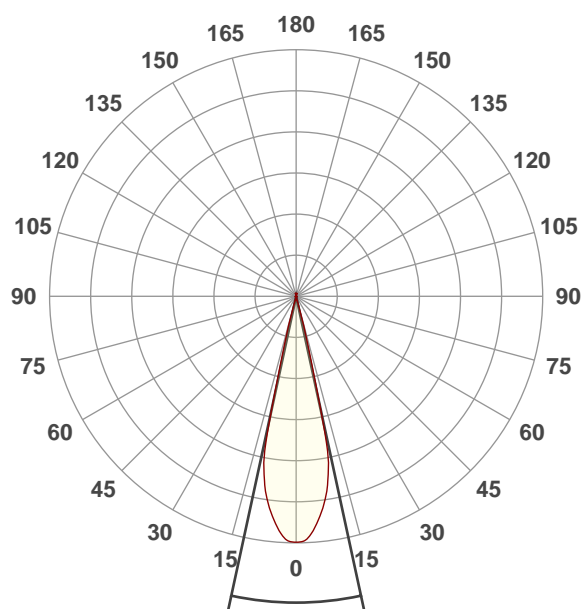
Blue

Operator:

Paolo Carvone

Date and time:

04/03/2020 09:22:17

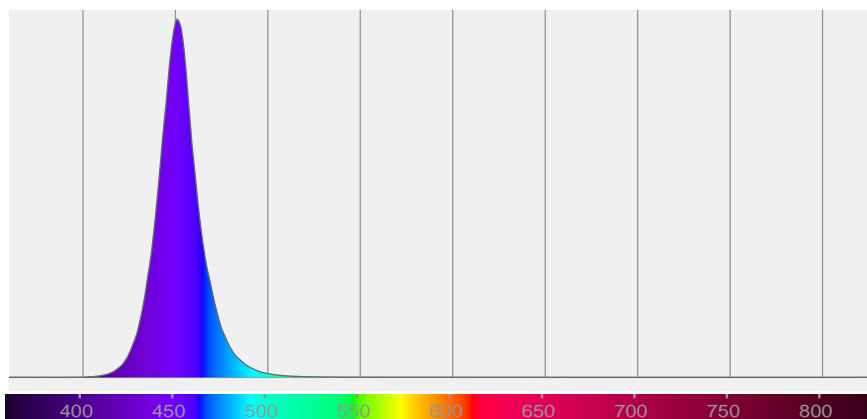


Beam angle 50%: 24,4°

Field angle 10%: 29,3°

Cut off angle 2.5%: 30,9°

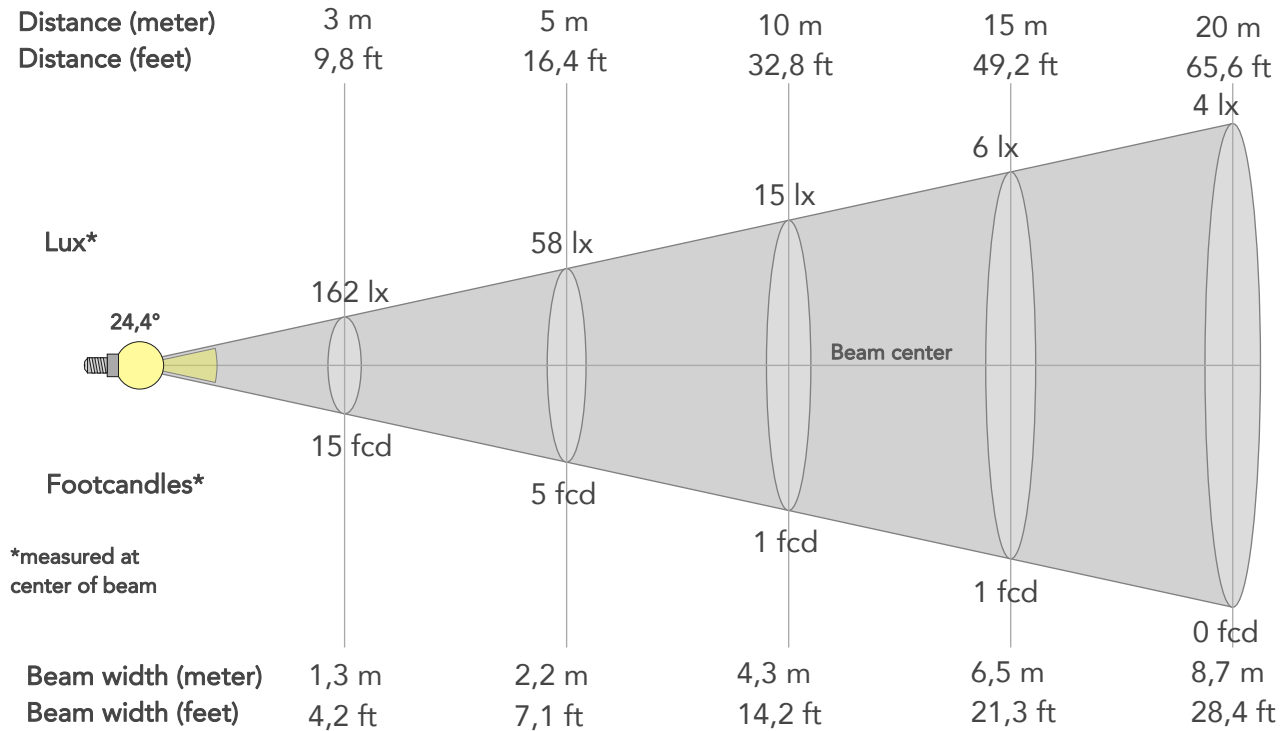
Spectra



BEAM DETAILS



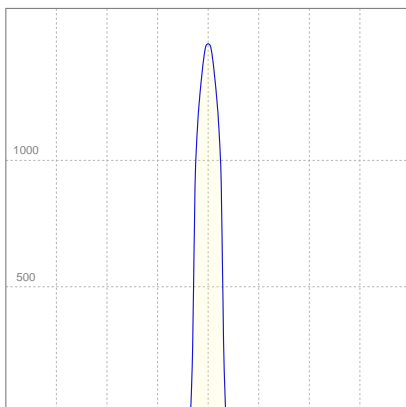
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 24,4° | 29,3° | 30,9° | 96,2% | 95,7% |



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 | 1456lx | 364lx | 162lx | 91lx | 58lx | 26lx | 15lx | 6lx | 4lx | 2lx | 2lx | 1lx | 1lx |
| Footcand. | 135fcd | 34fcd | 15fcd | 8fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,4m | 0,9m | 1,3m | 1,7m | 2,2m | 3,2m | 4,3m | 6,5m | 8,7m | 10,8m | 13m | 17,3m | 21,7m |
| Beam wid. | 1,4ft | 2,9ft | 4,2ft | 5,7ft | 7,1ft | 10,7ft | 14,2ft | 21,3ft | 28,4ft | 35,5ft | 42,6ft | 56,8ft | 71ft |

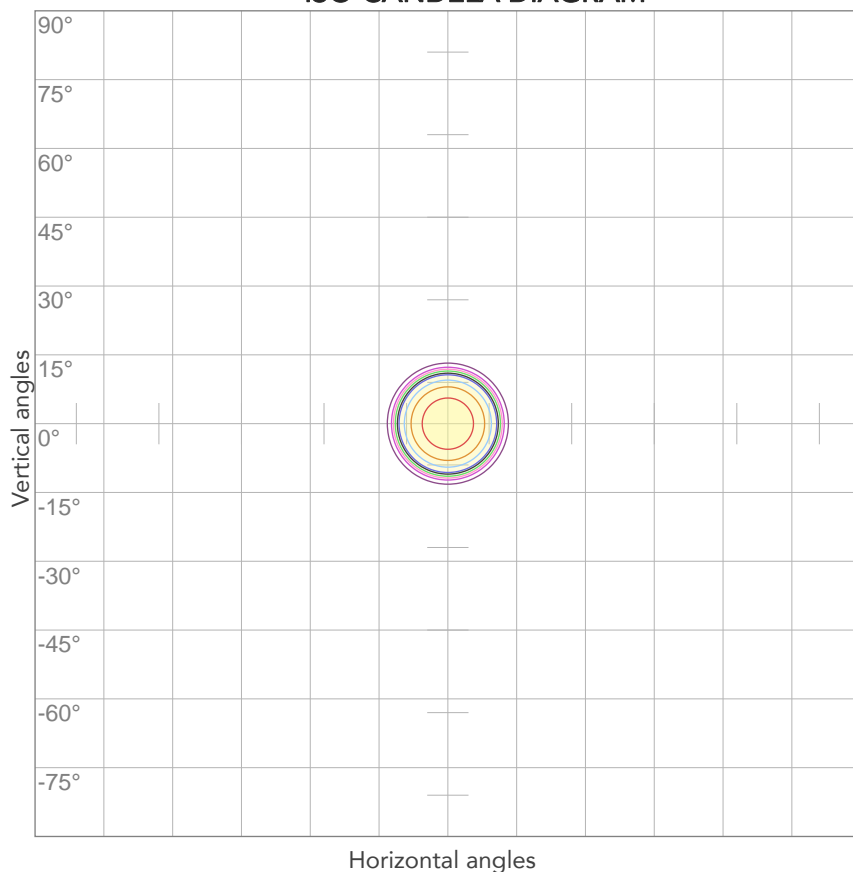
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 226V | 0,242A | 36,5W | 6lm/W |
| Power FC | | | |
| 0,96 | | | |

ISO CANDELA DIAGRAM



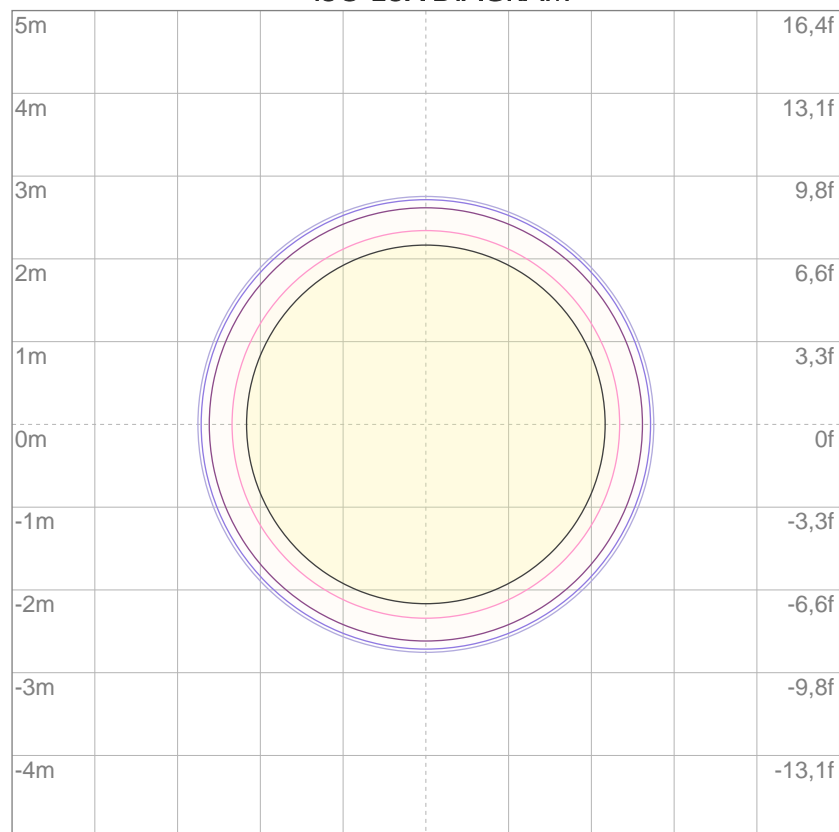
| | |
|-----|---------|
| 10% | 146 cd |
| 20% | 291 cd |
| 30% | 437 cd |
| 40% | 582 cd |
| 50% | 728 cd |
| 60% | 873 cd |
| 70% | 1019 cd |
| 80% | 1164 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1456 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,437 lx |
| 5% | 0,728 lx |
| 10% | 1,46 lx |
| 30% | 4,37 lx |
| 50% | 7,28 lx |

Conditions:

Number of c-planes: 2

Lux at center: 14,6 lx

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



Total lumen output:

3928 lm

Peak candela output:

26546 cd

PRODUCT NAME:

ECLFS

MEASURAMENT CONDITIONS:

Beam angle:

PRL26

Target:

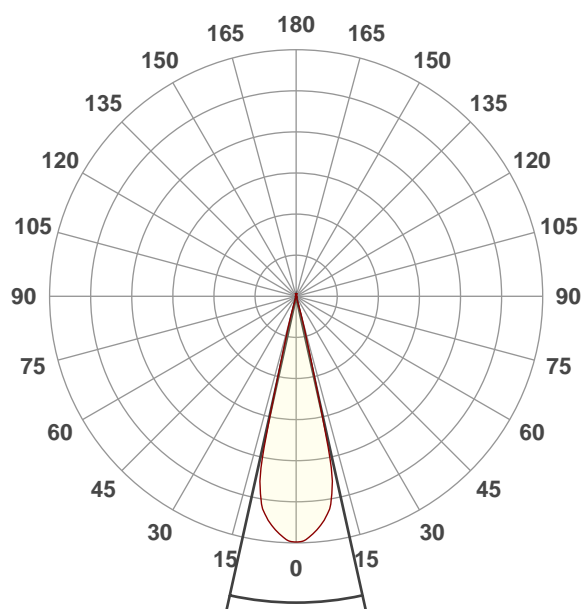
Lime

Operator:

Paolo Carvone

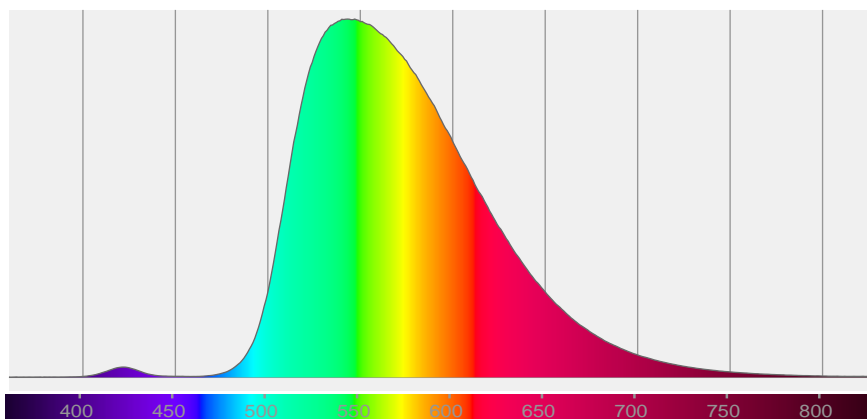
Date and time:

04/03/2020 09:23:55



Beam angle 50%: 25°
Field angle 10%: 29,5°
Cut off angle 2.5%: 31,3°

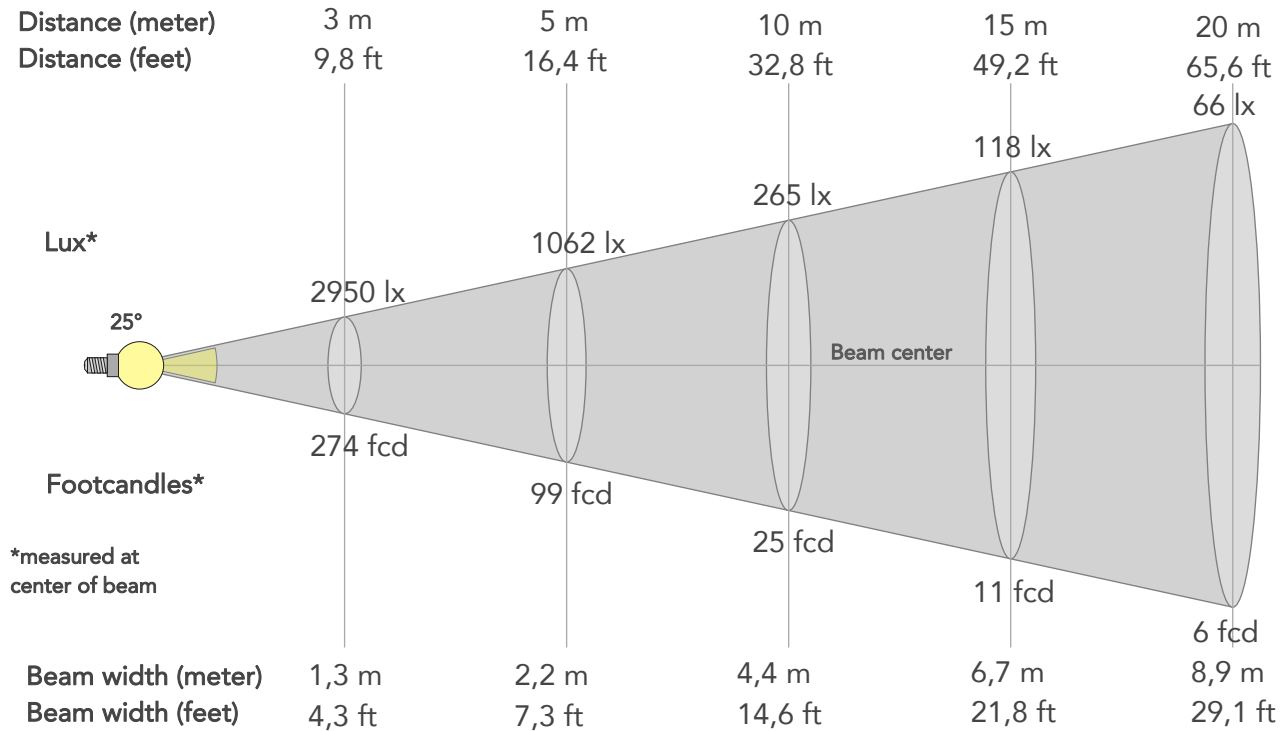
Spectra



BEAM DETAILS



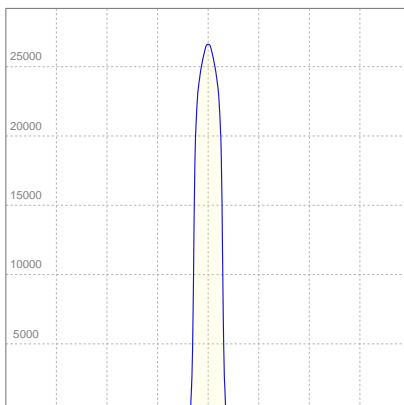
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 25° | 29,5° | 31,3° | 96,2% | 95,8% |



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 | 26546lx | 6636lx | 2950lx | 1659lx | 1062lx | 472lx | 265lx | 118lx | 66lx | 42lx | 29lx | 17lx | 11lx |
| Footcand. | 2466fcd | 617fcd | 274fcd | 154fcd | 99fcd | 44fcd | 25fcd | 11fcd | 6fcd | 4fcd | 3fcd | 2fcd | 1fcd |
| Beam wid. | 0,4m | 0,9m | 1,3m | 1,8m | 2,2m | 3,3m | 4,4m | 6,7m | 8,9m | 11,1m | 13,3m | 17,8m | 22,2m |
| Beam wid. | 1,5ft | 2,9ft | 4,3ft | 5,8ft | 7,3ft | 10,9ft | 14,6ft | 21,8ft | 29,1ft | 36,4ft | 43,7ft | 58,2ft | 72,8ft |

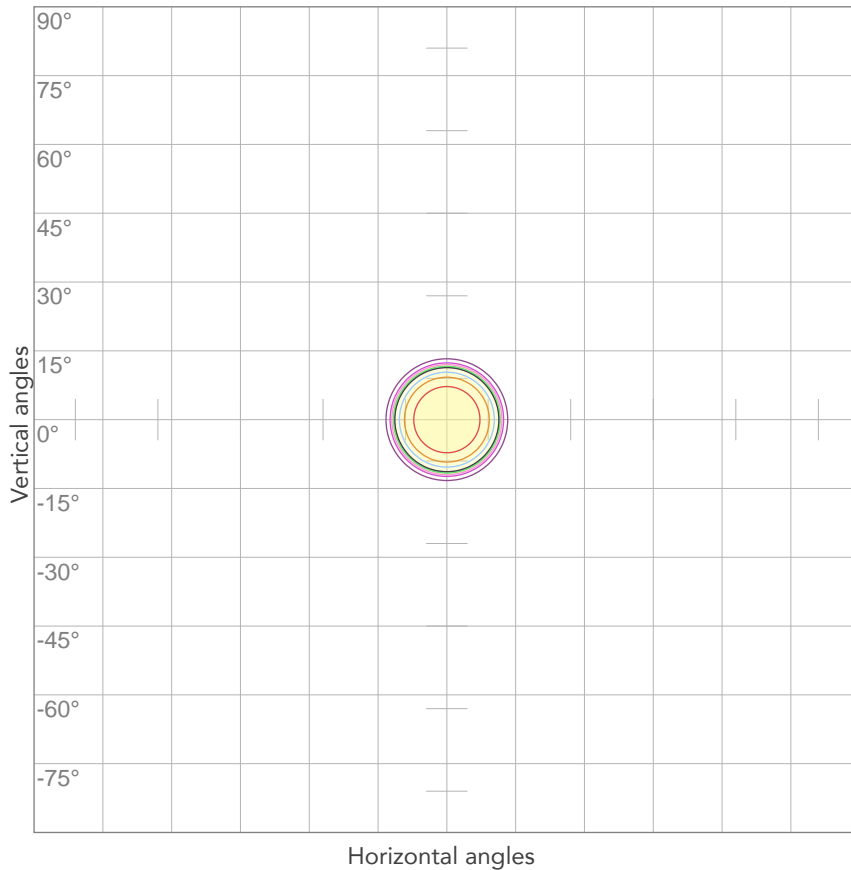
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 224V | 0,445A | 86,5W | 45lm/W |
| Power FC | | | |
| 0,96 | | | |

ISO CANDELA DIAGRAM



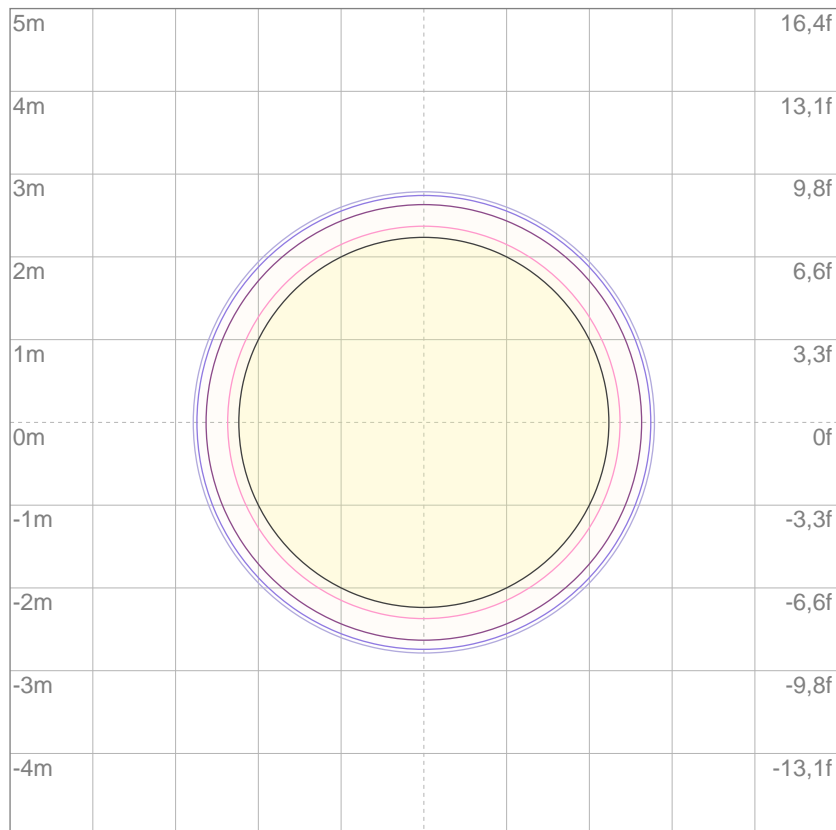
| | |
|-----|----------|
| 10% | 2655 cd |
| 20% | 5309 cd |
| 30% | 7964 cd |
| 40% | 10618 cd |
| 50% | 13273 cd |
| 60% | 15928 cd |
| 70% | 18582 cd |
| 80% | 21237 cd |

Conditions:

Number of c-planes: 2

Candela at center: 26546 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 7,96 lx |
| 5% | 13,3 lx |
| 10% | 26,5 lx |
| 30% | 79,6 lx |
| 50% | 133 lx |

Conditions:

Number of c-planes: 2

Lux at center: 265 lx

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



Total lumen output:

4161 lm

Peak candela output:

28828 cd

Light quality:

CRI: 84,6

Color temperature:

2821 K

PRODUCT NAME:

ECLFS

MEASURAMENT CONDITIONS:

Beam angle:

PRL26

Target:

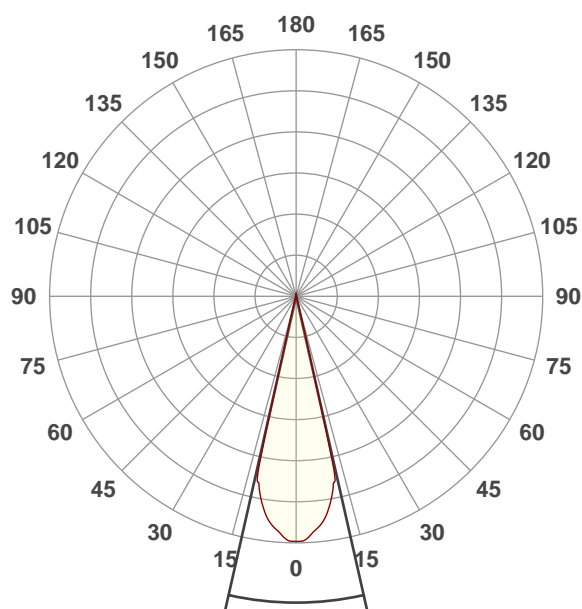
2800K

Operator:

Paolo Carvone

Date and time:

04/03/2020 09:41:11

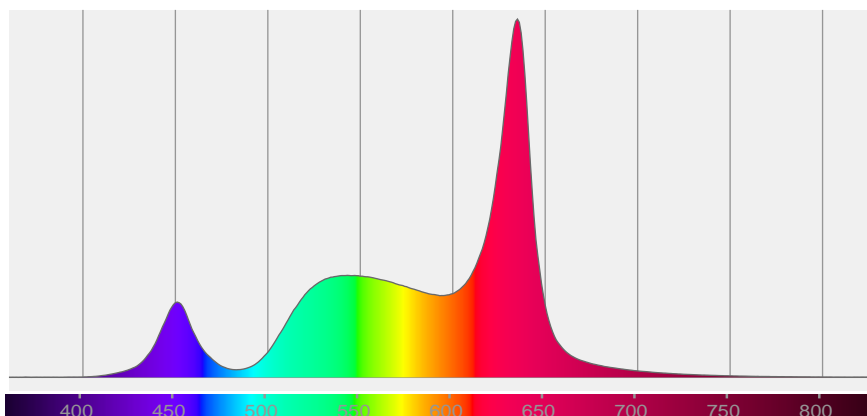


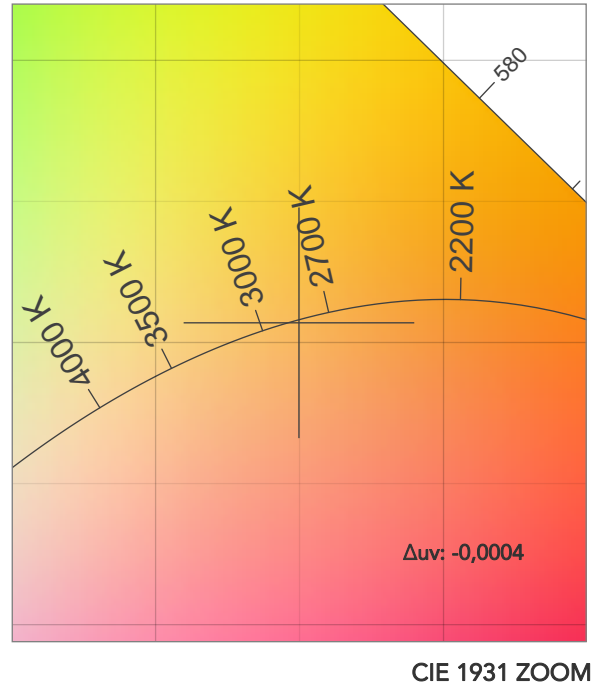
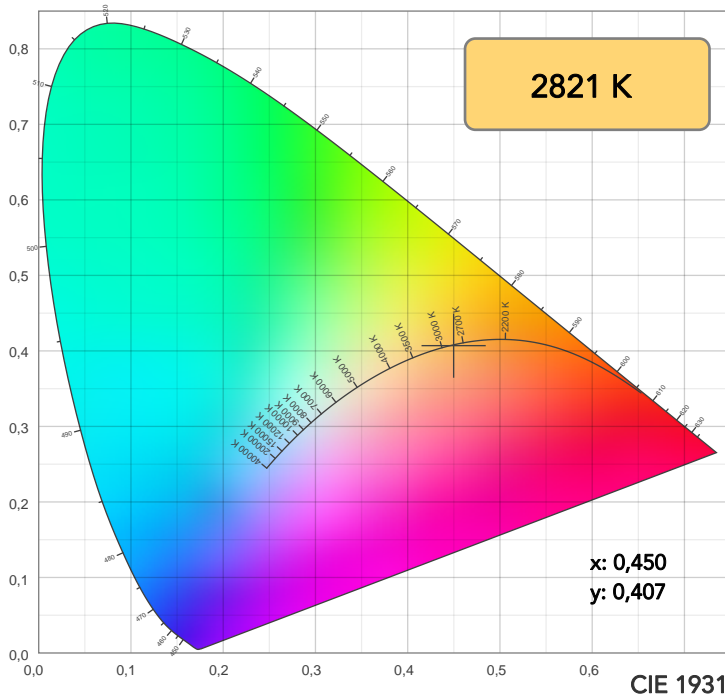
Beam angle 50%: 25,5°

Field angle 10%: 27,2°

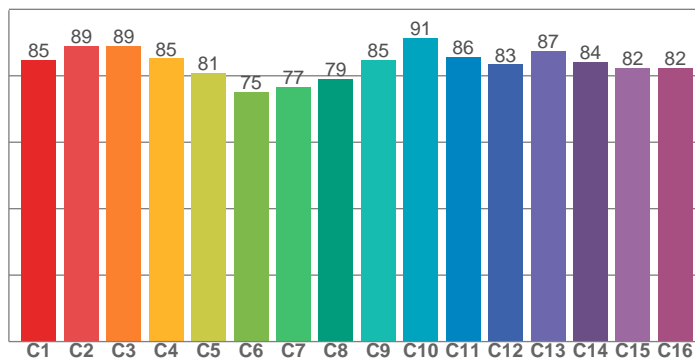
Cut off angle 2.5%: 28,9°

Spectra

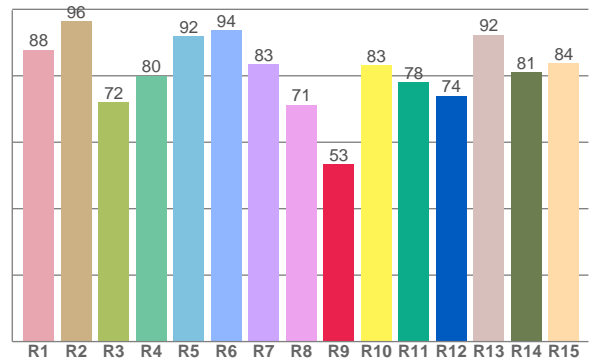




TM30: 84,4



CRI: 84,6 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 87,8 | 96,3 | 72,1 | 80,1 | 91,9 | 93,7 | 83,4 | 71,2 | 53,3 | 83,2 | 78,1 | 74,0 | 92,4 | 81,1 | 83,8 |

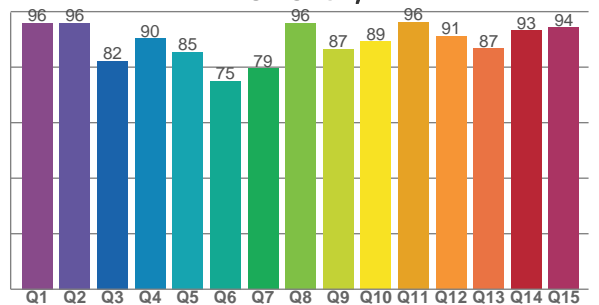
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 84,9 | 89,0 | 89,0 | 85,3 | 80,9 | 75,2 | 76,6 | 79,1 | 84,8 | 91,4 | 85,7 | 83,4 | 87,5 | 84,2 | 82,4 | 82,4 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,0 | 95,9 | 82,2 | 90,3 | 85,5 | 75,1 | 79,5 | 95,9 | 86,5 | 89,2 | 96,3 | 91,2 | 86,7 | 93,1 | 94,3 |

CQS: 87,1



COLOR PARAMETERS

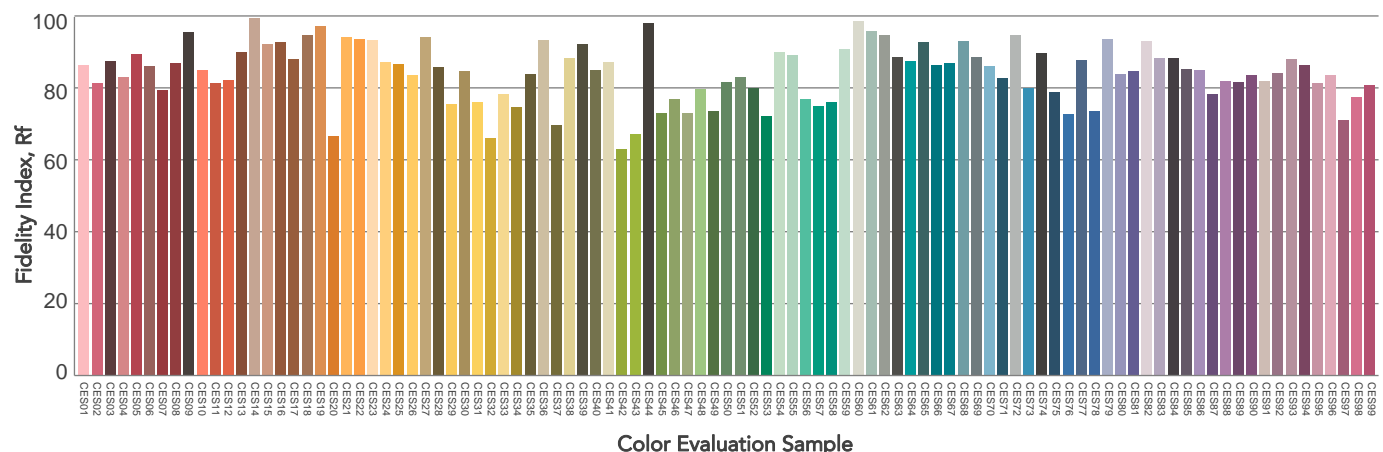
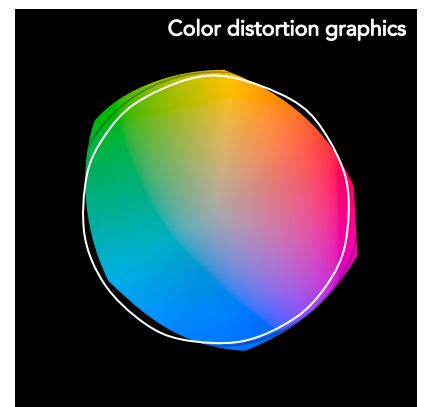
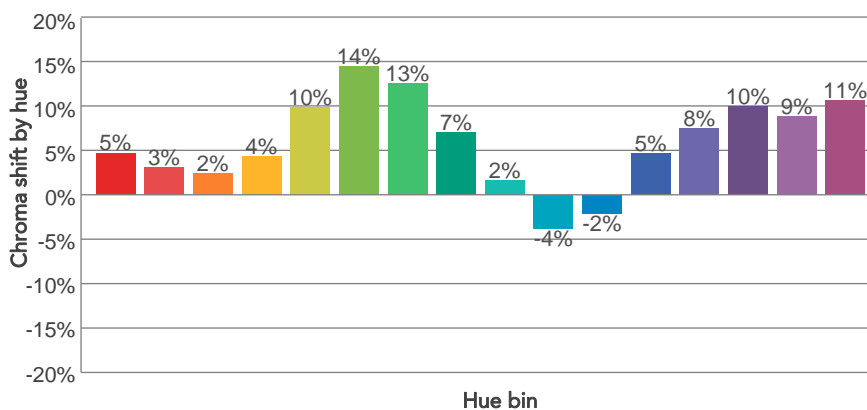
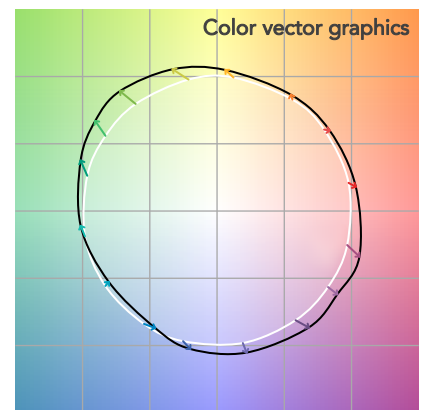
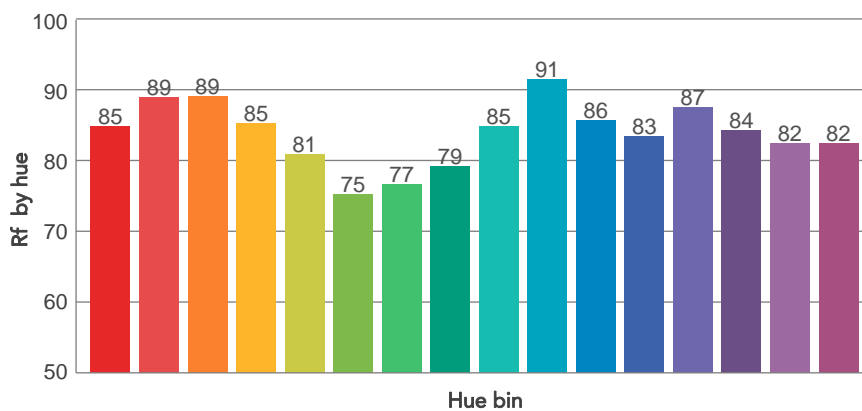
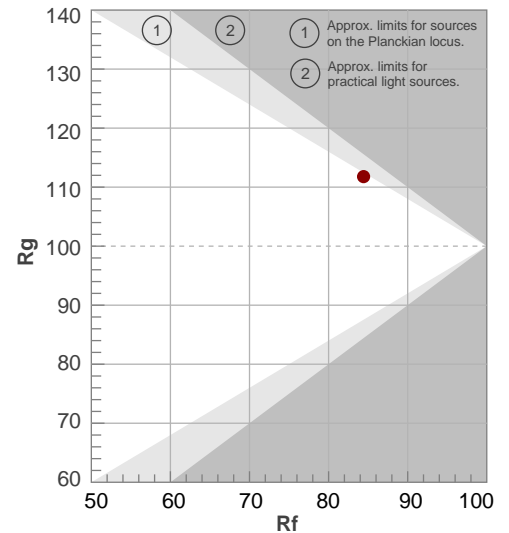
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2821 K | 84,6 | 53,3 | 84,4 | 111,8 | 87,1 | 71 | 0,450 | 0,407 | -0,0004 |

TM30 DETAILS

Rf 84,4
Fidelity index Rf

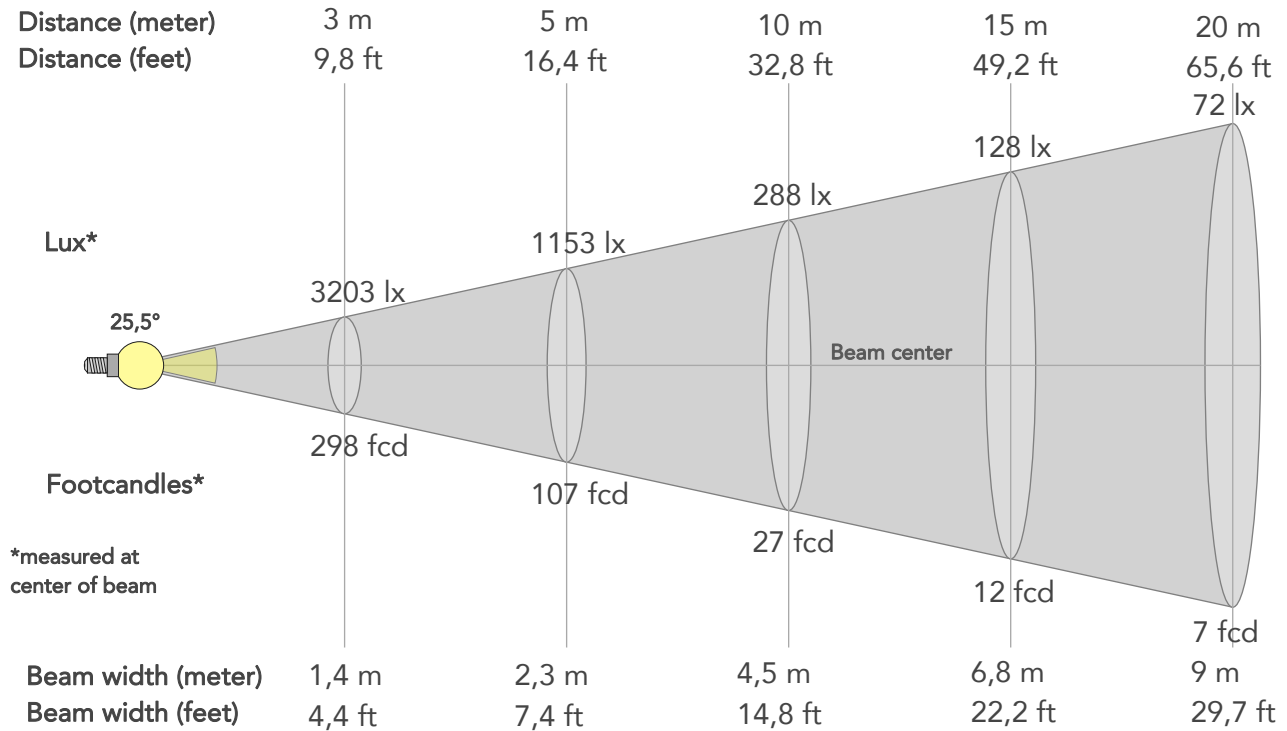
Rg 111,8
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 85 | 5% | -4% |
| 2 | 89 | 3% | -3% |
| 3 | 89 | 2% | 3% |
| 4 | 85 | 4% | 7% |
| 5 | 81 | 10% | 10% |
| 6 | 75 | 14% | 4% |
| 7 | 77 | 13% | -5% |
| 8 | 79 | 7% | -10% |
| 9 | 85 | 2% | -8% |
| 10 | 91 | -4% | -1% |
| 11 | 86 | -2% | 9% |
| 12 | 83 | 5% | 6% |
| 13 | 87 | 8% | 1% |
| 14 | 84 | 10% | 5% |
| 15 | 82 | 9% | -1% |
| 16 | 82 | 11% | -7% |



BEAM DETAILS

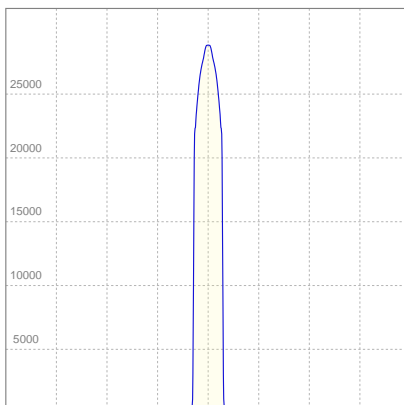
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 25,5° | 27,2° | 28,9° | 96,9% | 96,6% |



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 | 28828lx | 7207lx | 3203lx | 1802lx | 1153lx | 512lx | 288lx | 128lx | 72lx | 46lx | 32lx | 18lx | 12lx |
| Footcand. | 2678fcd | 670fcd | 298fcd | 167fcd | 107fcd | 48fcd | 27fcd | 12fcd | 7fcd | 4fcd | 3fcd | 2fcd | 1fcd |
| Beam wid. | 0,5m | 0,9m | 1,4m | 1,8m | 2,3m | 3,4m | 4,5m | 6,8m | 9m | 11,3m | 13,6m | 18,1m | 22,6m |
| Beam wid. | 1,5ft | 3ft | 4,4ft | 5,9ft | 7,4ft | 11,1ft | 14,8ft | 22,2ft | 29,7ft | 37,1ft | 44,5ft | 59,3ft | 74,2ft |

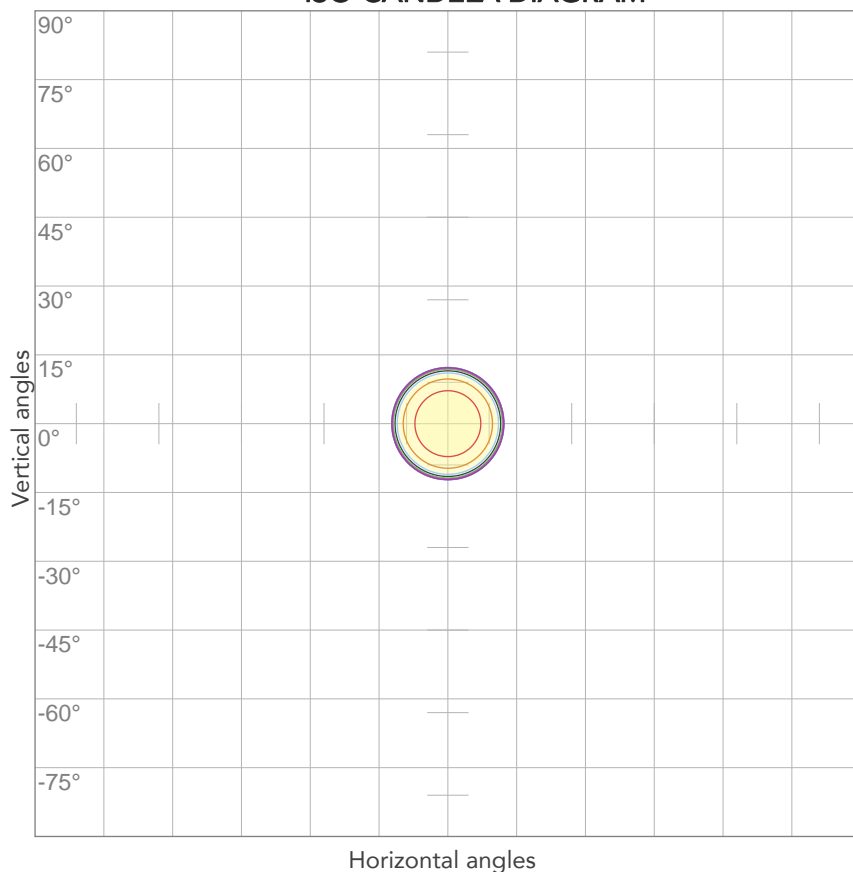
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 225V | 0,583A | 120,8W | 34lm/W |
| Power FC | | | |
| 0,96 | | | |

ISO CANDELA DIAGRAM



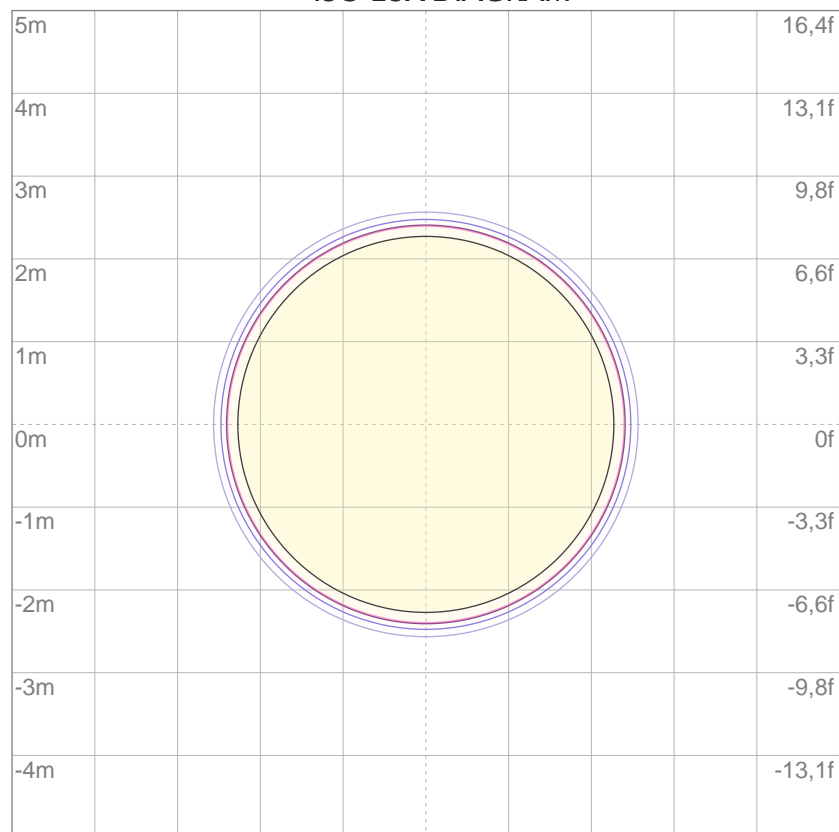
| | |
|-----|----------|
| 10% | 2883 cd |
| 20% | 5766 cd |
| 30% | 8648 cd |
| 40% | 11531 cd |
| 50% | 14414 cd |
| 60% | 17297 cd |
| 70% | 20180 cd |
| 80% | 23062 cd |

Conditions:

Number of c-planes: 2

Candela at center: 28828 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 8,65 lx |
| 5% | 14,4 lx |
| 10% | 28,8 lx |
| 30% | 86,5 lx |
| 50% | 144 lx |

Conditions:

Number of c-planes: 2

Lux at center: 288 lx

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



Total lumen output:

4477 lm

Peak candela output:

30865 cd

Light quality:

CRI: 86,4

Color temperature:

3295 K

PRODUCT NAME:

ECLFS

MEASURAMENT CONDITIONS:

Beam angle:

PRL26

Target:

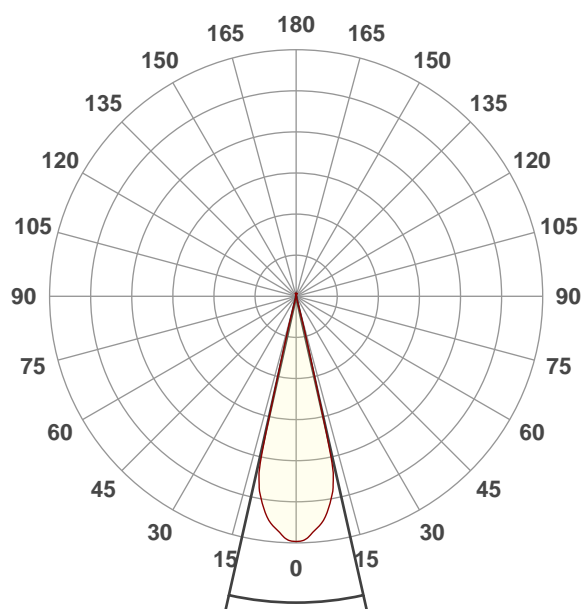
3200K

Operator:

Paolo Carvone

Date and time:

04/03/2020 09:37:54

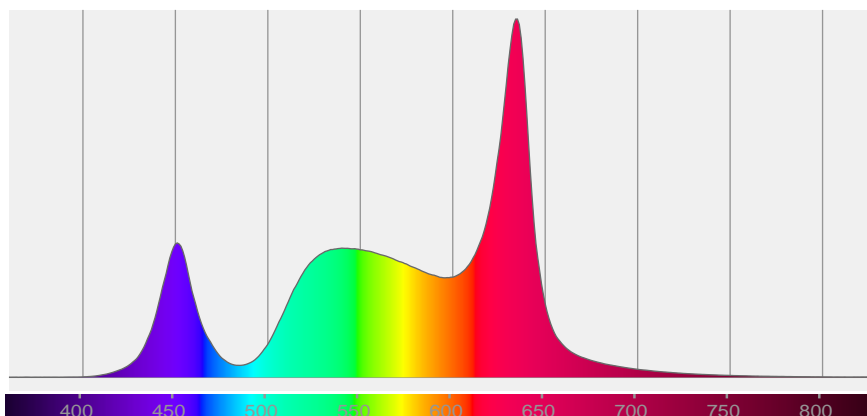


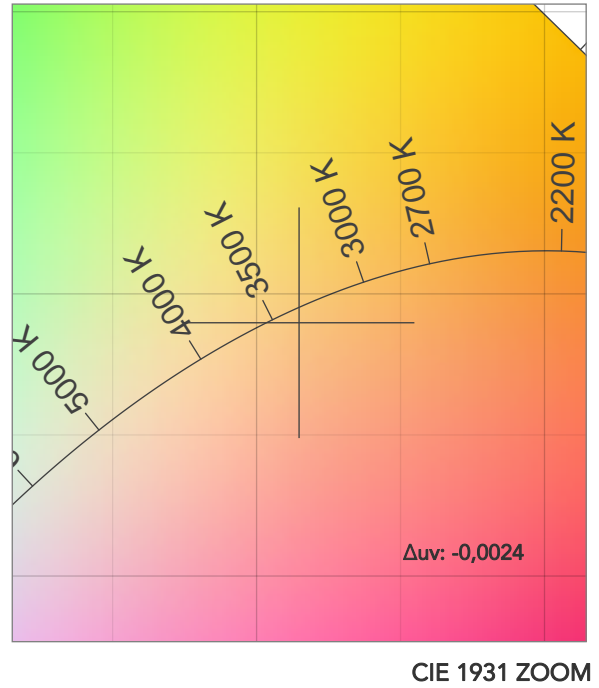
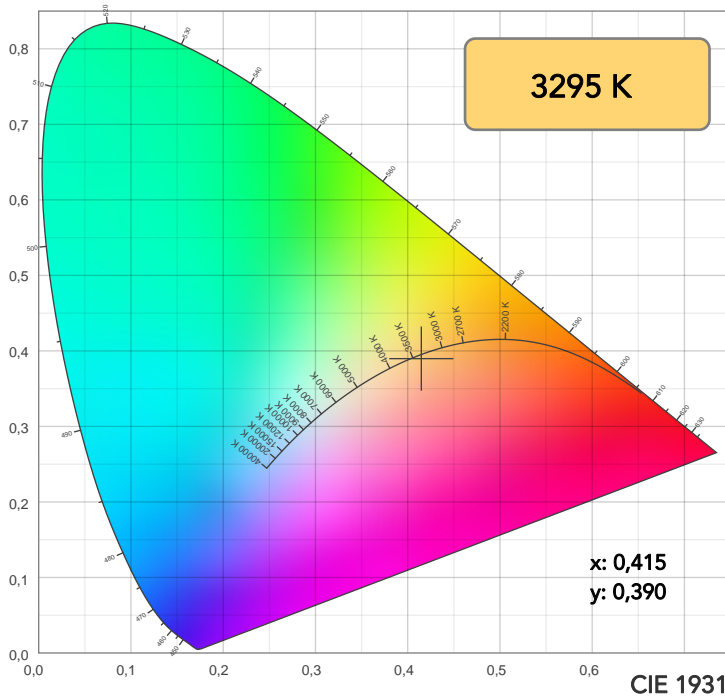
Beam angle 50%: 25,4°

Field angle 10%: 28,1°

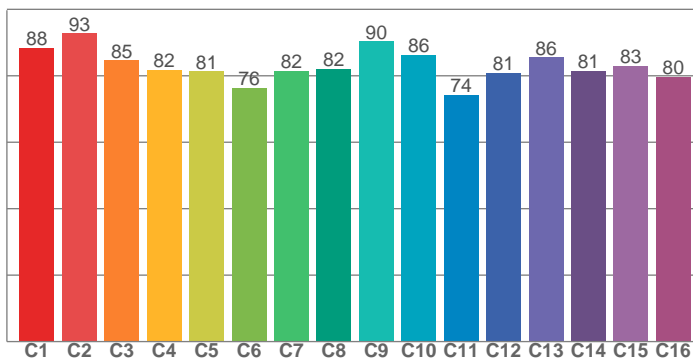
Cut off angle 2.5%: 29°

Spectra

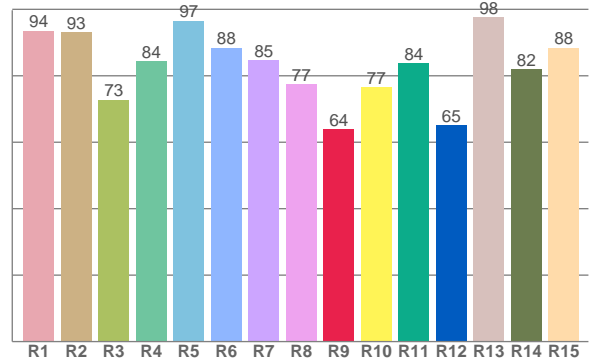




TM30: 83,5



CRI: 86,4 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,5 | 93,2 | 72,8 | 84,3 | 96,6 | 88,4 | 84,7 | 77,4 | 64,0 | 76,5 | 83,7 | 65,0 | 97,6 | 82,0 | 88,4 |

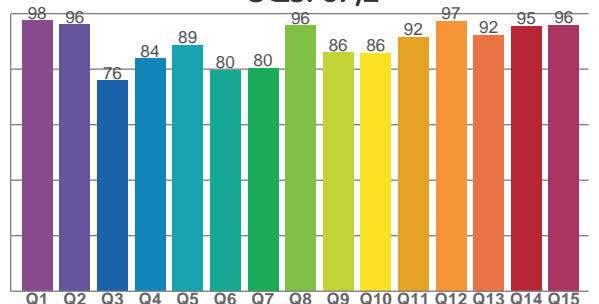
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 88,4 | 92,8 | 84,7 | 81,8 | 81,4 | 76,3 | 81,6 | 82,1 | 90,3 | 86,2 | 74,3 | 80,9 | 85,6 | 81,5 | 83,0 | 79,8 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,6 | 96,0 | 75,9 | 83,9 | 88,6 | 79,8 | 80,3 | 95,7 | 86,0 | 85,8 | 91,5 | 97,3 | 92,3 | 95,4 | 95,9 |

CQS: 87,2



COLOR PARAMETERS

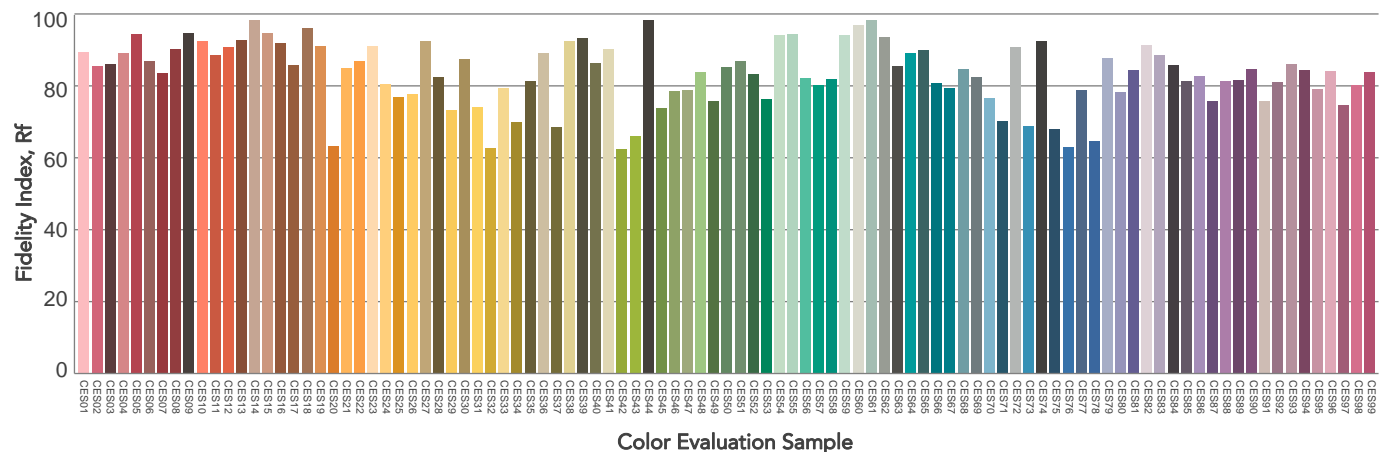
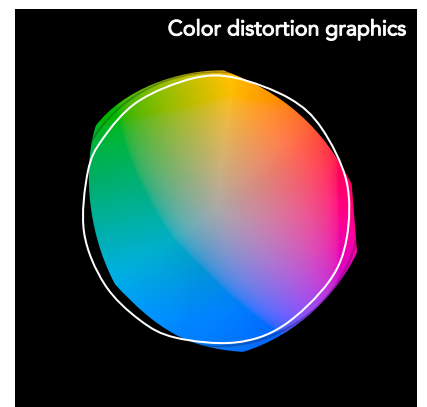
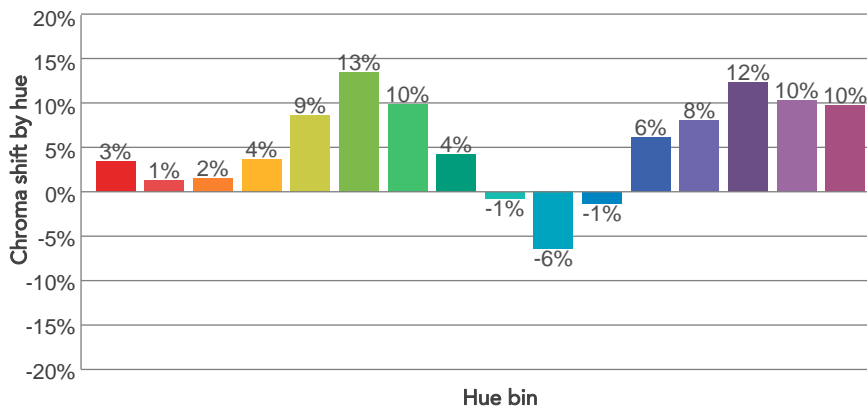
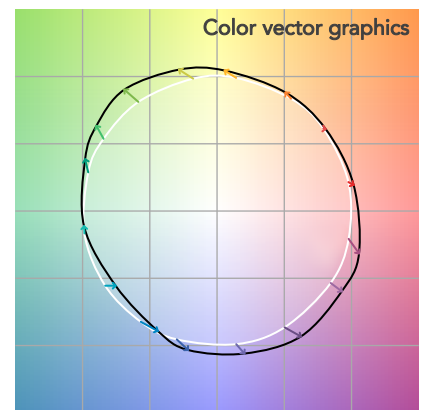
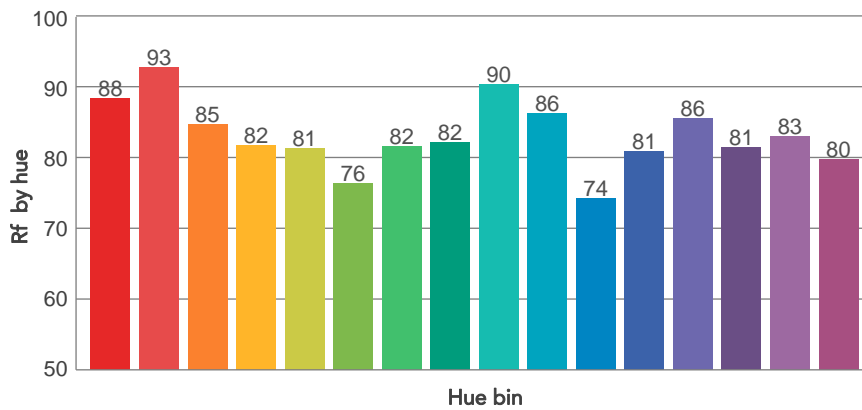
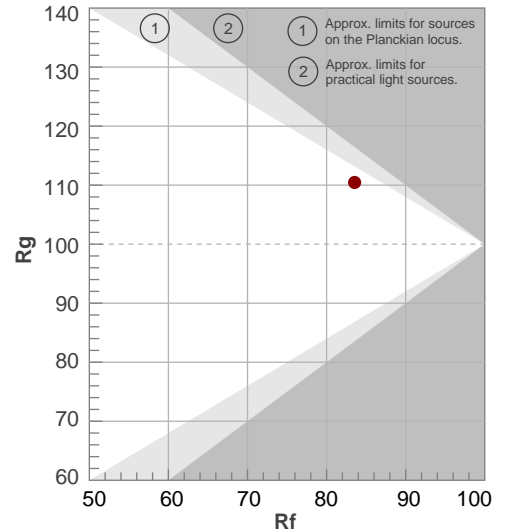
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 3295 K | 86,4 | 64,0 | 83,5 | 110,4 | 87,2 | 75 | 0,415 | 0,390 | -0,0024 |

TM30 DETAILS

Rf 83,5
Fidelity index Rf

Rg 110,4
Gammut index

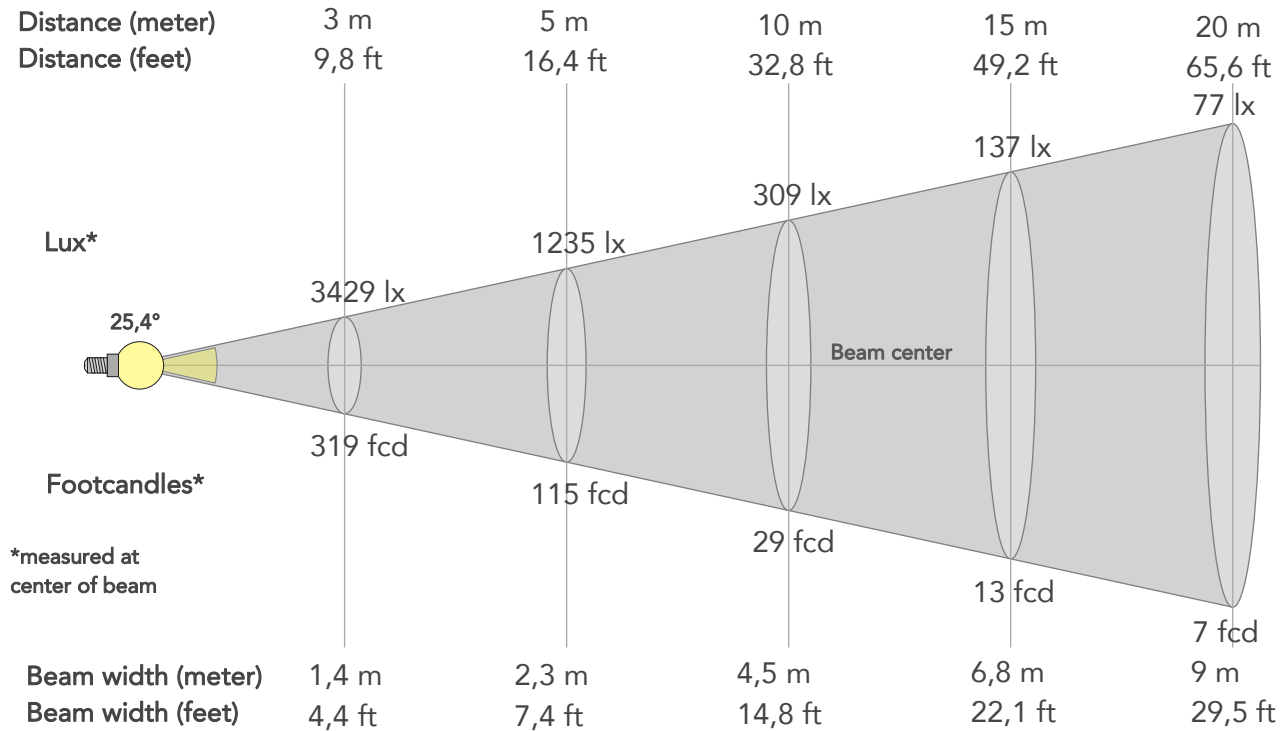
| | | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| Hue Bin | R _f | Chroma | Hue |
| 1 | 88 | 3% | -3% |
| 2 | 93 | 1% | -1% |
| 3 | 85 | 2% | 6% |
| 4 | 82 | 4% | 9% |
| 5 | 81 | 9% | 9% |
| 6 | 76 | 13% | 4% |
| 7 | 82 | 10% | -5% |
| 8 | 82 | 4% | -9% |
| 9 | 90 | -1% | -5% |
| 10 | 86 | -6% | 4% |
| 11 | 74 | -1% | 14% |
| 12 | 81 | 6% | 10% |
| 13 | 86 | 8% | 5% |
| 14 | 81 | 12% | 6% |
| 15 | 83 | 10% | -1% |
| 16 | 80 | 10% | -9% |



BEAM DETAILS



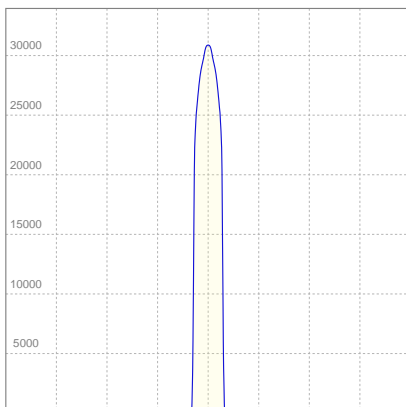
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 25,4° | 28,1° | 29° | 96,6% | 96,3% |



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 | 30865lx | 7716lx | 3429lx | 1929lx | 1235lx | 549lx | 309lx | 137lx | 77lx | 49lx | 34lx | 19lx | 12lx |
| Footcand. | 2867fcd | 717fcd | 319fcd | 179fcd | 115fcd | 51fcd | 29fcd | 13fcd | 7fcd | 5fcd | 3fcd | 2fcd | 1fcd |
| Beam wid. | 0,5m | 0,9m | 1,4m | 1,8m | 2,3m | 3,4m | 4,5m | 6,8m | 9m | 11,3m | 13,5m | 18m | 22,5m |
| Beam wid. | 1,5ft | 3ft | 4,4ft | 5,9ft | 7,4ft | 11,1ft | 14,8ft | 22,1ft | 29,5ft | 36,9ft | 44,3ft | 59ft | 73,8ft |

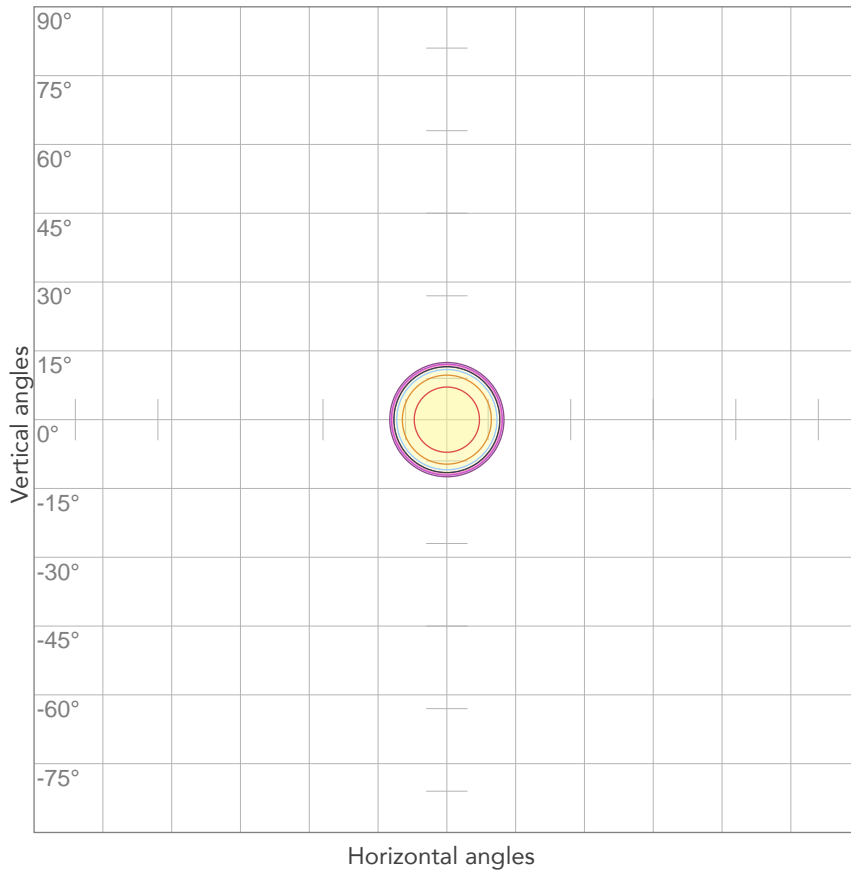
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 224V | 0,610A | 126,3W | 35lm/W |
| Power FC | | | |
| 0,96 | | | |

ISO CANDELA DIAGRAM



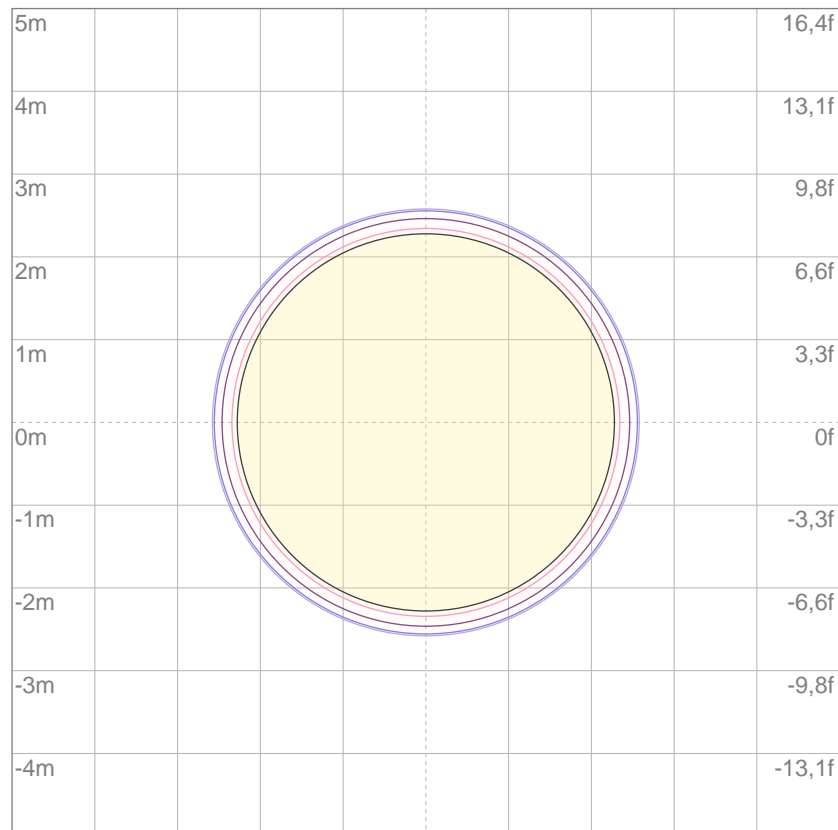
| | |
|-----|----------|
| 10% | 3087 cd |
| 20% | 6173 cd |
| 30% | 9260 cd |
| 40% | 12346 cd |
| 50% | 15433 cd |
| 60% | 18519 cd |
| 70% | 21606 cd |
| 80% | 24692 cd |

Conditions:

Number of c-planes: 2

Candela at center: 30865 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 9,26 lx |
| 5% | 15,4 lx |
| 10% | 30,9 lx |
| 30% | 92,6 lx |
| 50% | 154 lx |

Conditions:

Number of c-planes: 2

Lux at center: 309 lx

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



Total lumen output:

5090 lm

Peak candela output:

34885 cd

Light quality:

CRI: 85,7

Color temperature:

3994 K

PRODUCT NAME:

ECLFS

MEASURAMENT CONDITIONS:

Beam angle:

PRL26

Target:

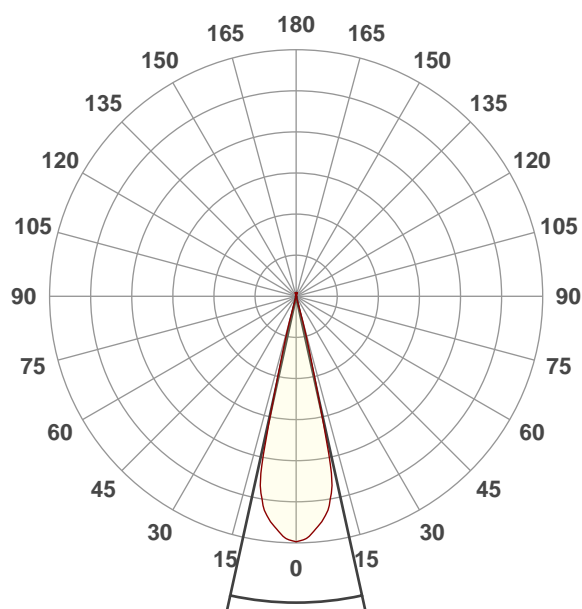
4000K

Operator:

Paolo Carvone

Date and time:

04/03/2020 09:43:28

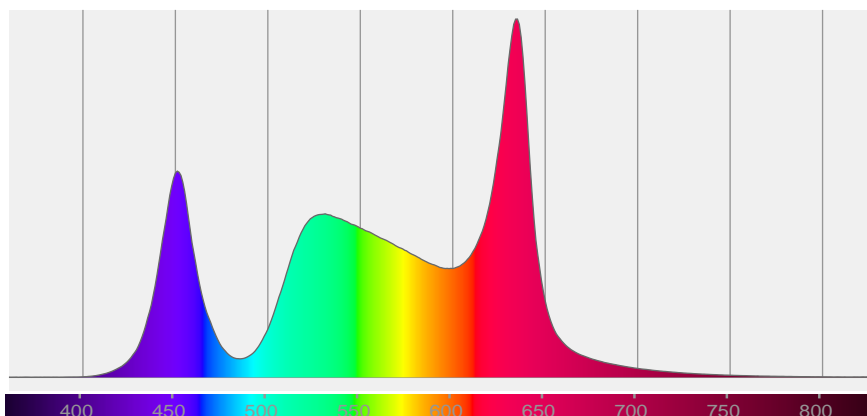


Beam angle 50%: 24,8°

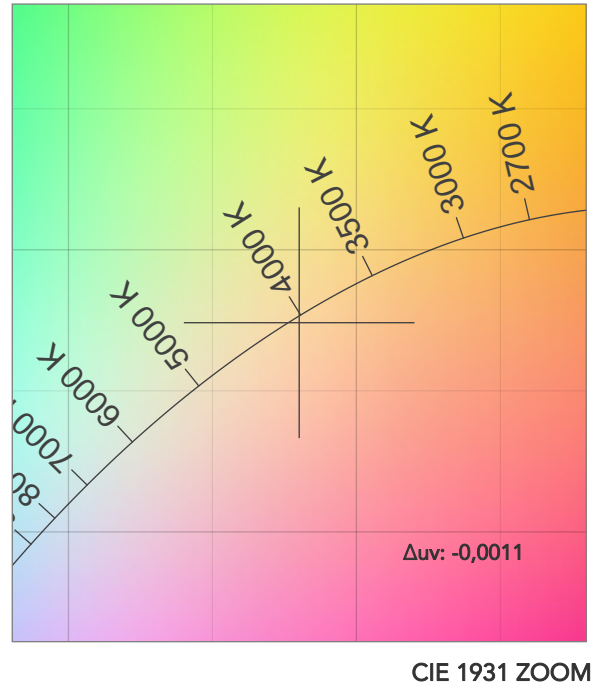
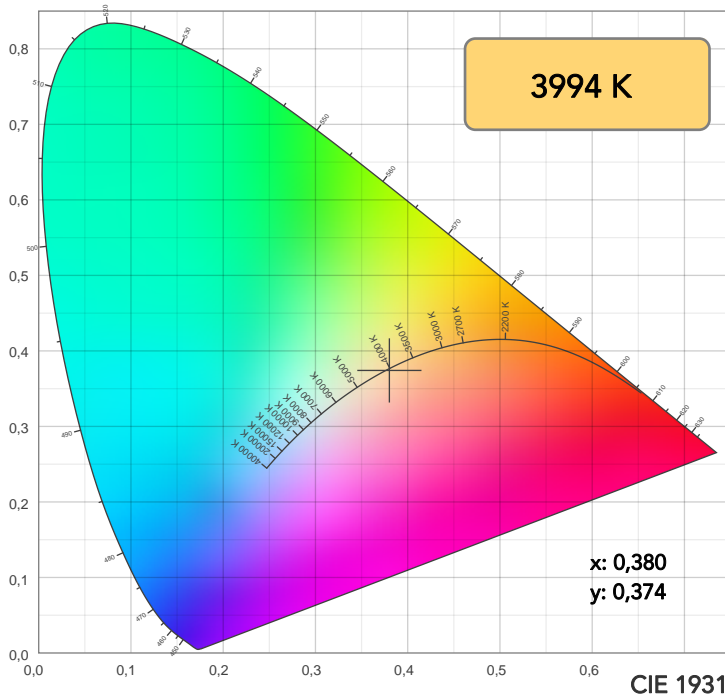
Field angle 10%: 29,9°

Cut off angle 2.5%: 31,4°

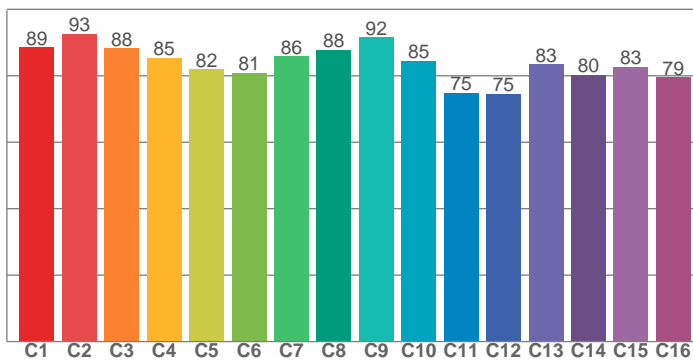
Spectra



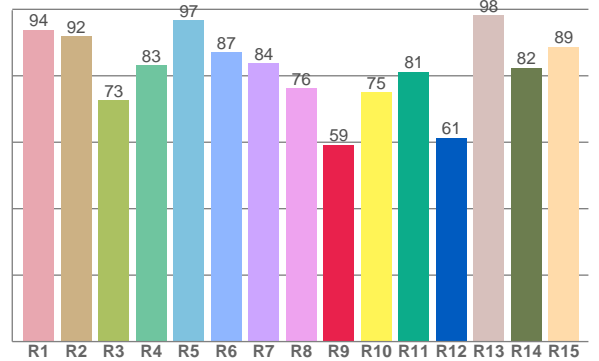
COLOR DETAILS



TM30: 84,2



CRI: 85,7 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,9 | 92,0 | 72,6 | 83,1 | 96,8 | 87,1 | 83,8 | 76,3 | 59,2 | 75,0 | 81,2 | 61,3 | 98,2 | 82,4 | 88,7 |

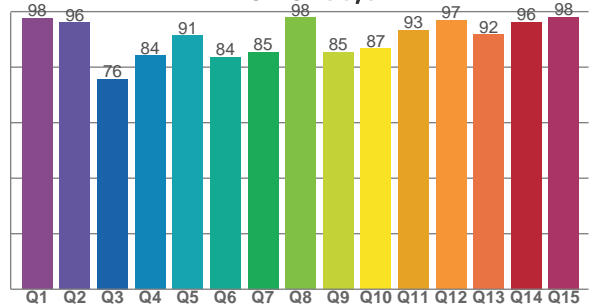
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 88,5 | 92,6 | 88,2 | 85,4 | 81,9 | 80,9 | 85,8 | 87,8 | 91,5 | 84,5 | 74,9 | 74,5 | 83,4 | 80,2 | 82,7 | 79,5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,6 | 96,0 | 75,8 | 84,2 | 91,3 | 83,7 | 85,4 | 97,8 | 85,5 | 86,6 | 93,4 | 96,9 | 91,8 | 96,3 | 98,0 |

CQS: 88,6



COLOR PARAMETERS

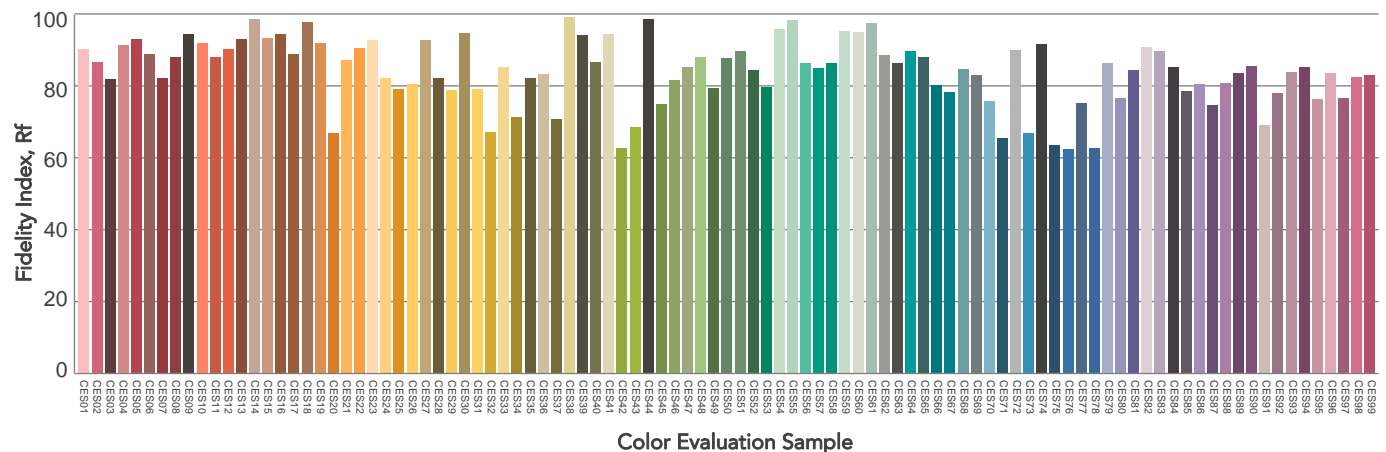
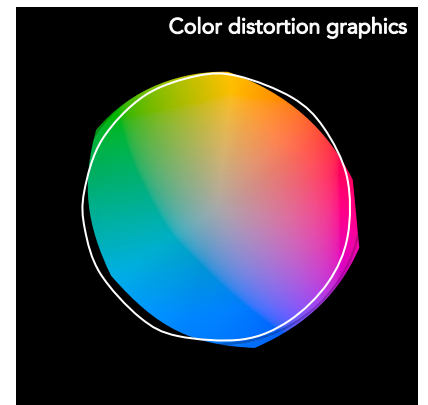
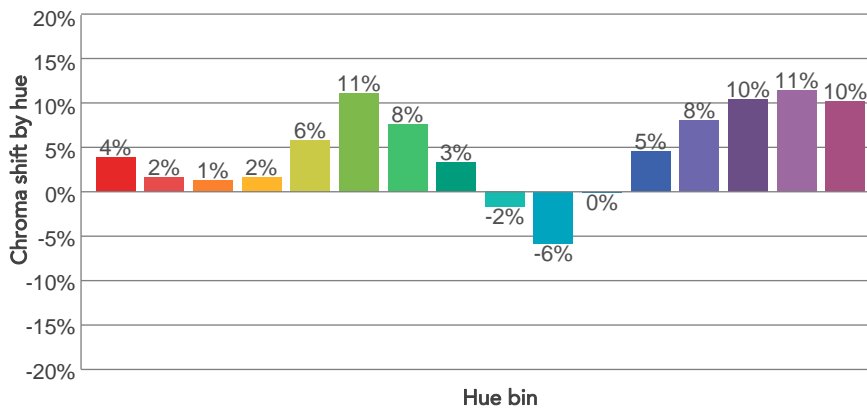
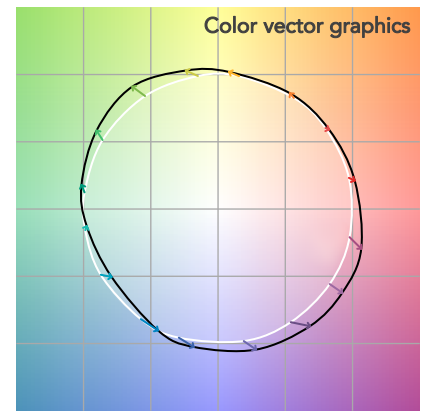
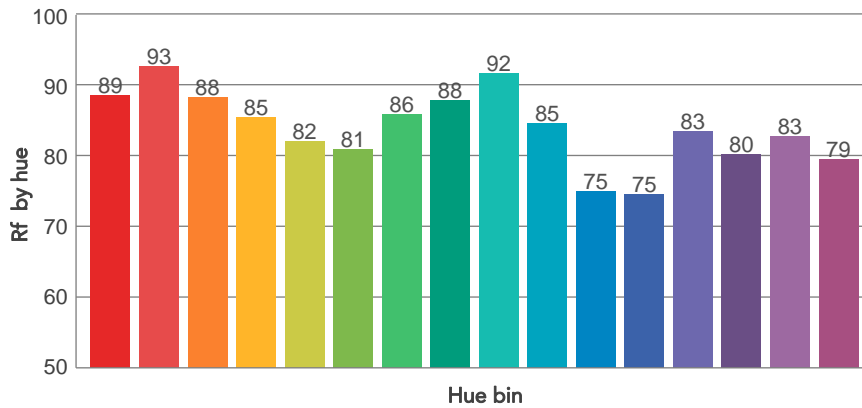
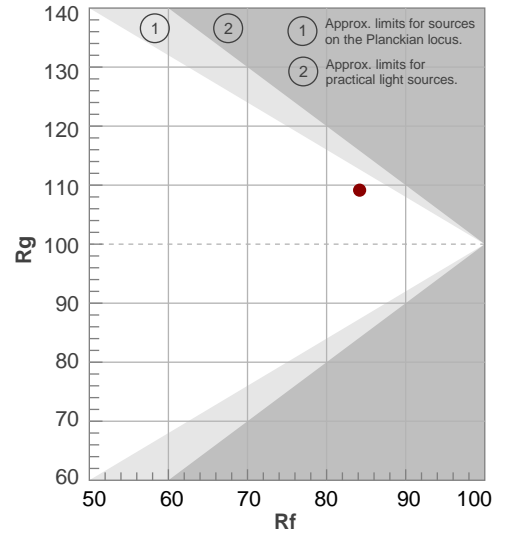
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 3994 K | 85,7 | 59,2 | 84,2 | 109,1 | 88,6 | 78 | 0,380 | 0,374 | -0,0011 |

TM30 DETAILS

Rf 84,2
Fidelity index Rf

Rg 109,1
Gammut index

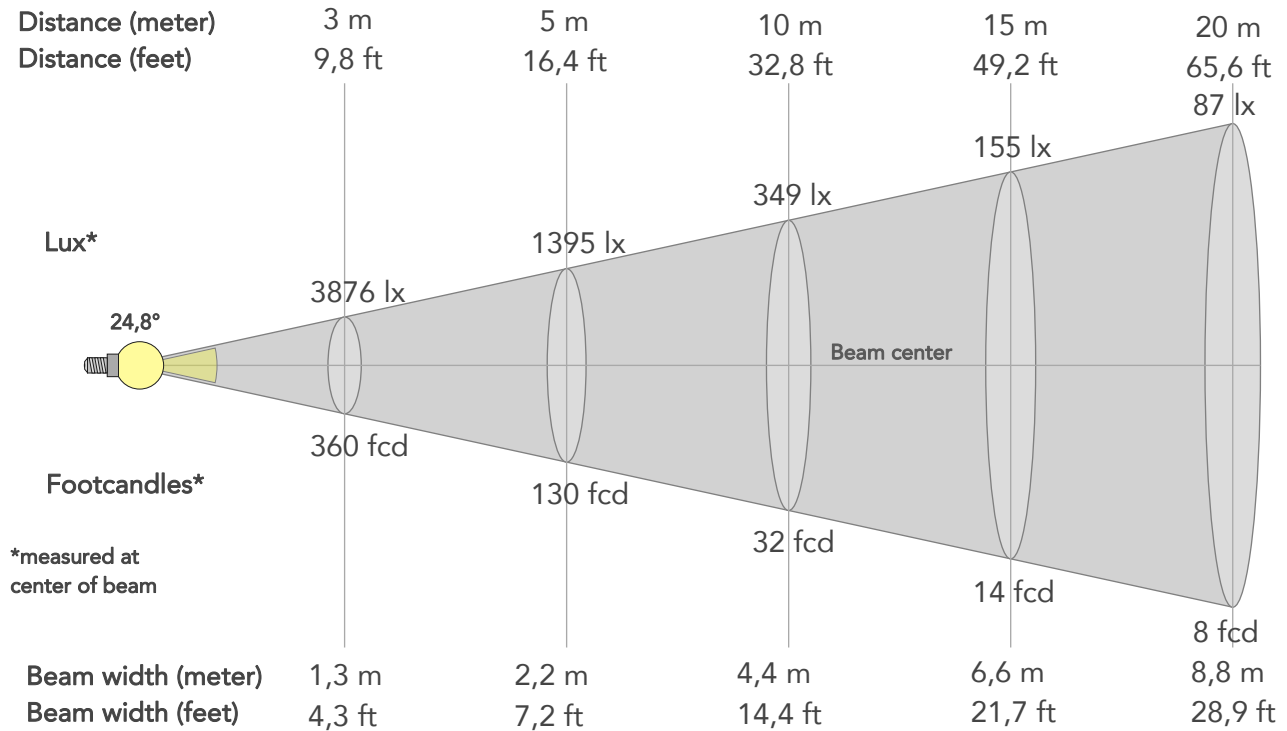
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 89 | 4% | -3% |
| 2 | 93 | 2% | -2% |
| 3 | 88 | 1% | 4% |
| 4 | 85 | 2% | 8% |
| 5 | 82 | 6% | 8% |
| 6 | 81 | 11% | 4% |
| 7 | 86 | 8% | -3% |
| 8 | 88 | 3% | -5% |
| 9 | 92 | -2% | -3% |
| 10 | 85 | -6% | 6% |
| 11 | 75 | 0% | 15% |
| 12 | 75 | 5% | 12% |
| 13 | 83 | 8% | 8% |
| 14 | 80 | 10% | 10% |
| 15 | 83 | 11% | 0% |
| 16 | 79 | 10% | -7% |



BEAM DETAILS



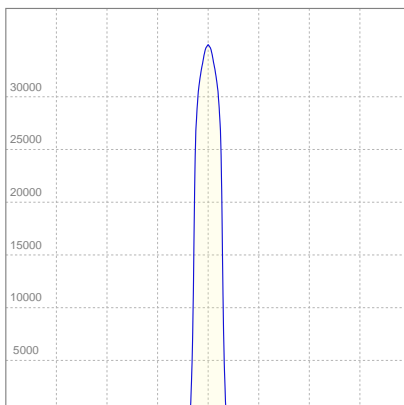
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 24,8° | 29,9° | 31,4° | 96,7% | 96,4% |



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 | 34885lx | 8721lx | 3876lx | 2180lx | 1395lx | 620lx | 349lx | 155lx | 87lx | 56lx | 39lx | 22lx | 14lx |
| Footcand. | 3241fcd | 810fcd | 360fcd | 203fcd | 130fcd | 58fcd | 32fcd | 14fcd | 8fcd | 5fcd | 4fcd | 2fcd | 1fcd |
| Beam wid. | 0,4m | 0,9m | 1,3m | 1,8m | 2,2m | 3,3m | 4,4m | 6,6m | 8,8m | 11m | 13,2m | 17,6m | 22m |
| Beam wid. | 1,5ft | 2,9ft | 4,3ft | 5,8ft | 7,2ft | 10,8ft | 14,4ft | 21,7ft | 28,9ft | 36,1ft | 43,3ft | 57,8ft | 72,2ft |

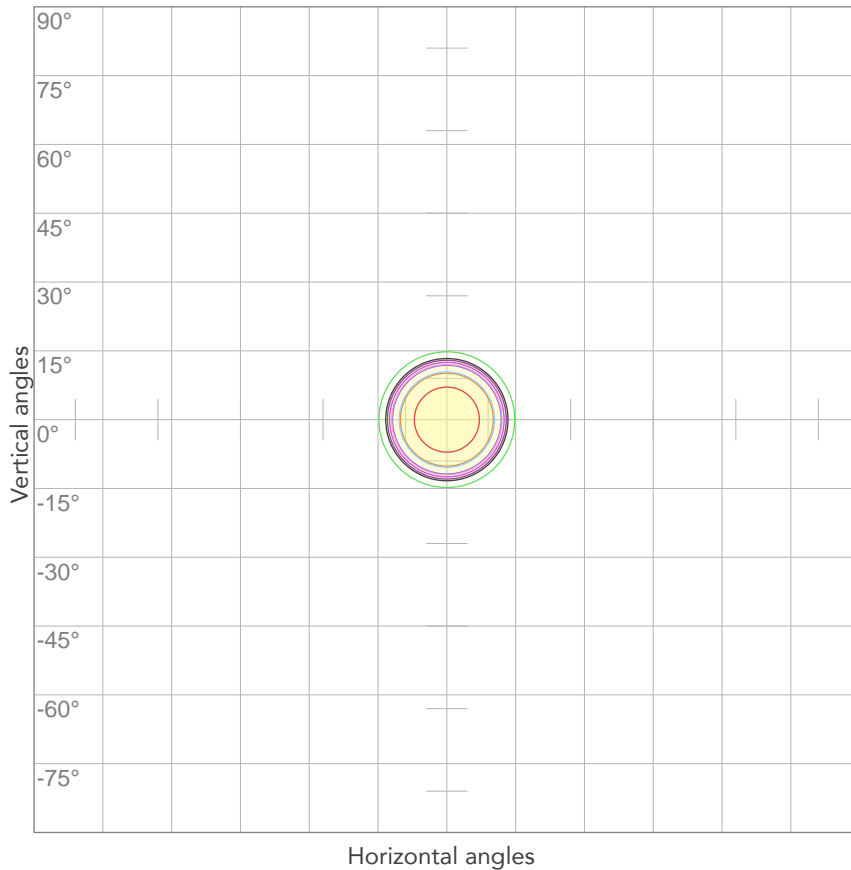
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 224V | 0,699A | 145,8W | 35lm/W |
| Power FC | | | |
| 0,96 | | | |

ISO CANDELA DIAGRAM



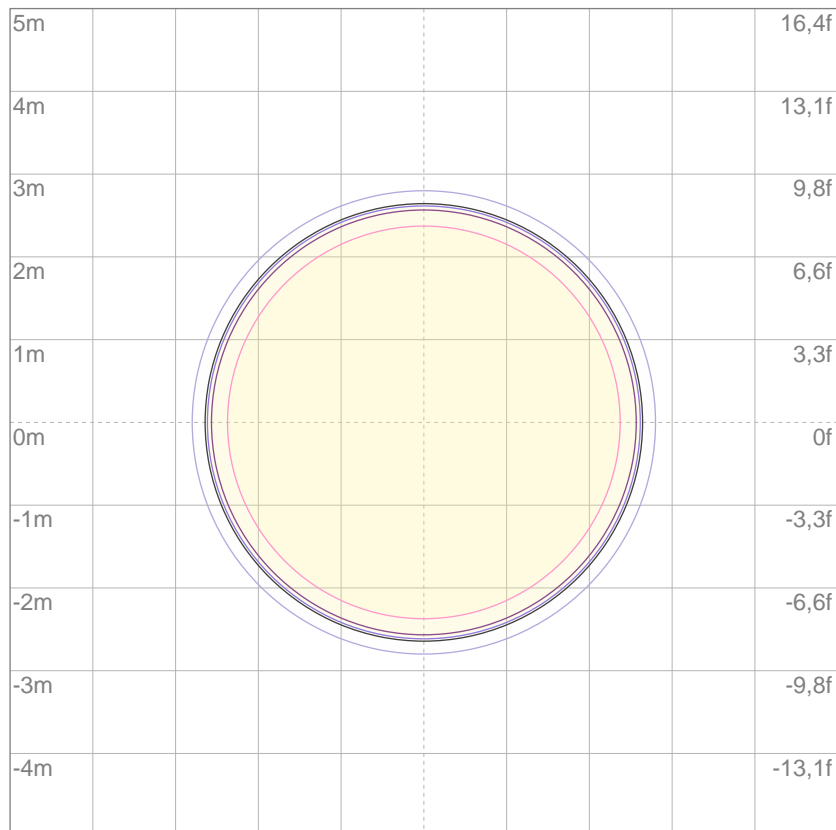
| | |
|-----|----------|
| 10% | 3488 cd |
| 20% | 6977 cd |
| 30% | 10465 cd |
| 40% | 13954 cd |
| 50% | 17442 cd |
| 60% | 20931 cd |
| 70% | 24419 cd |
| 80% | 27908 cd |

Conditions:

Number of c-planes: 2

Candela at center: 34885 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 10,5 lx |
| 5% | 17,4 lx |
| 10% | 34,9 lx |
| 30% | 105 lx |
| 50% | 174 lx |

Conditions:

Number of c-planes: 2

Lux at center: 349 lx

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



Total lumen output:

5351 lm

Peak candela output:

36771 cd

Light quality:

CRI: 85,1

Color temperature:

5527 K

PRODUCT NAME:

ECLFS

MEASURAMENT CONDITIONS:

Beam angle:

PRL26

Target:

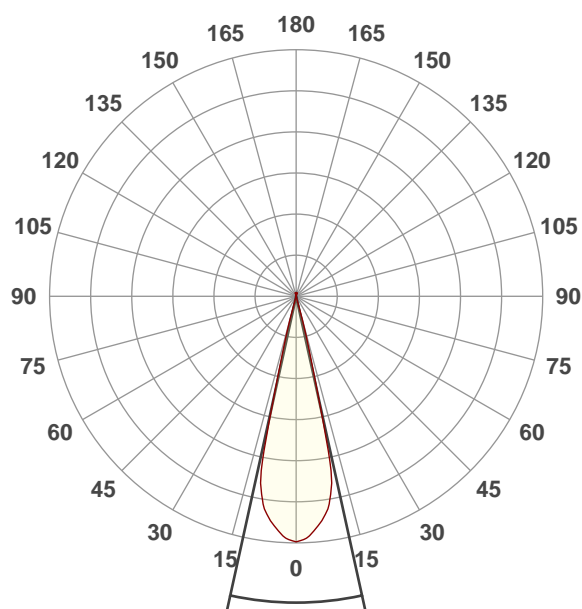
5600K

Operator:

Paolo Carvone

Date and time:

04/03/2020 09:45:17

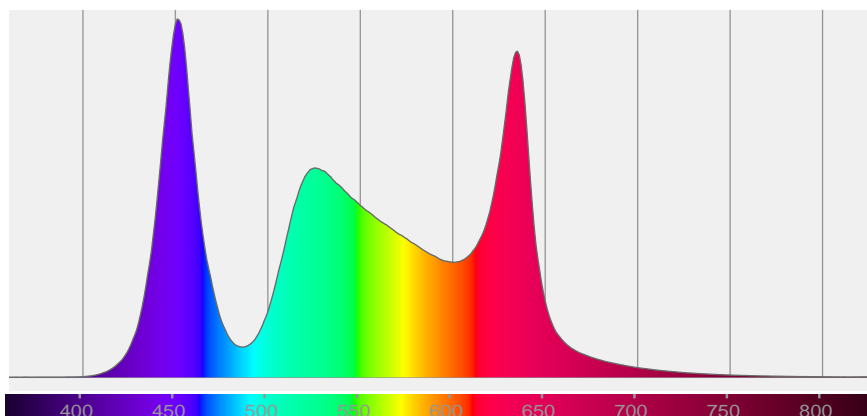


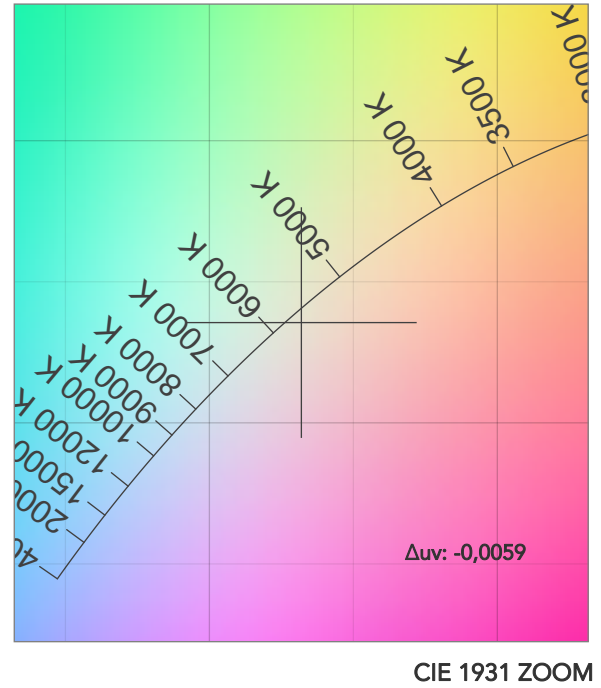
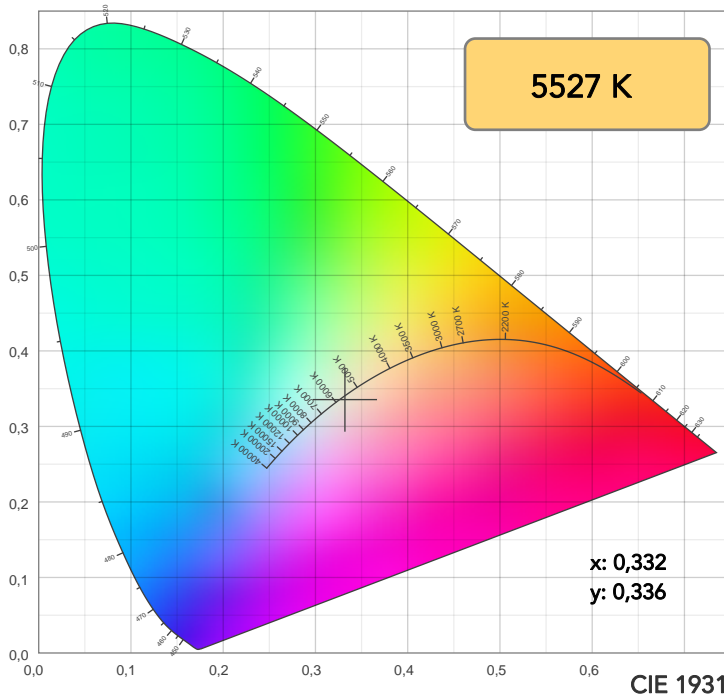
Beam angle 50%: 24,8°

Field angle 10%: 29,9°

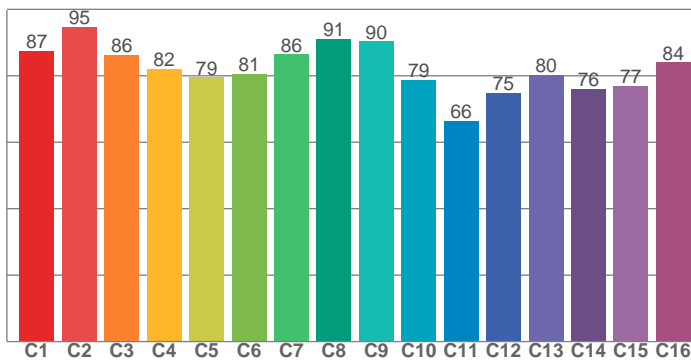
Cut off angle 2.5%: 31,5°

Spectra

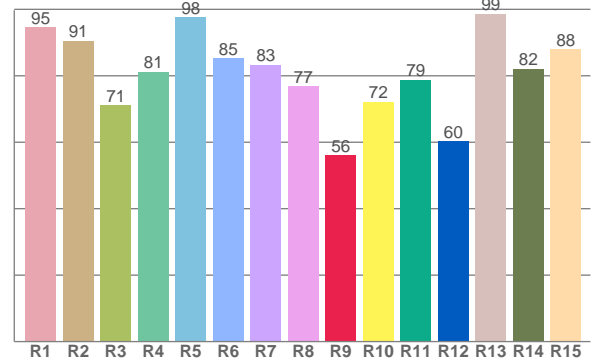




TM30: 82,2



CRI: 85,1 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,6 | 90,5 | 71,2 | 81,2 | 97,6 | 85,3 | 83,4 | 76,9 | 56,0 | 72,2 | 78,8 | 60,2 | 98,7 | 82,1 | 88,0 |

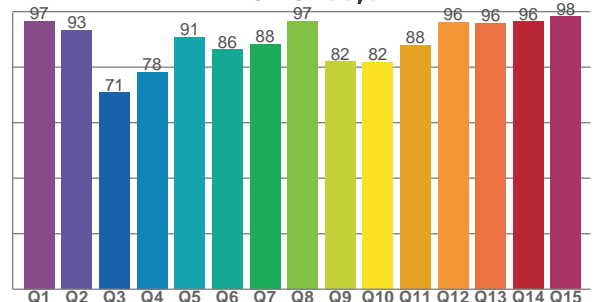
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 87,5 | 94,8 | 86,3 | 82,1 | 79,5 | 80,7 | 86,5 | 91,1 | 90,3 | 78,8 | 66,5 | 74,9 | 80,3 | 76,1 | 77,0 | 84,0 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,6 | 93,3 | 70,9 | 78,3 | 90,8 | 86,4 | 88,3 | 96,7 | 82,1 | 81,9 | 88,0 | 96,2 | 95,9 | 96,4 | 98,2 |

CQS: 86,8



COLOR PARAMETERS

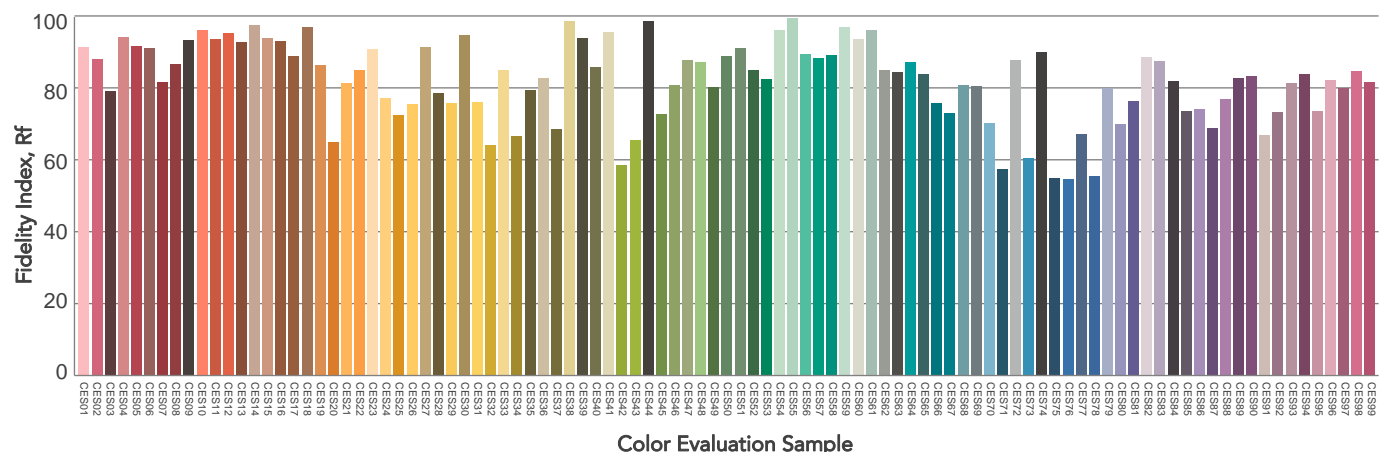
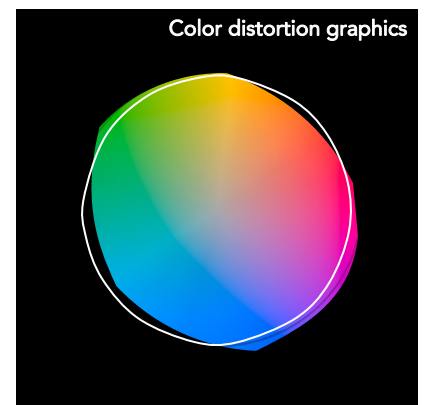
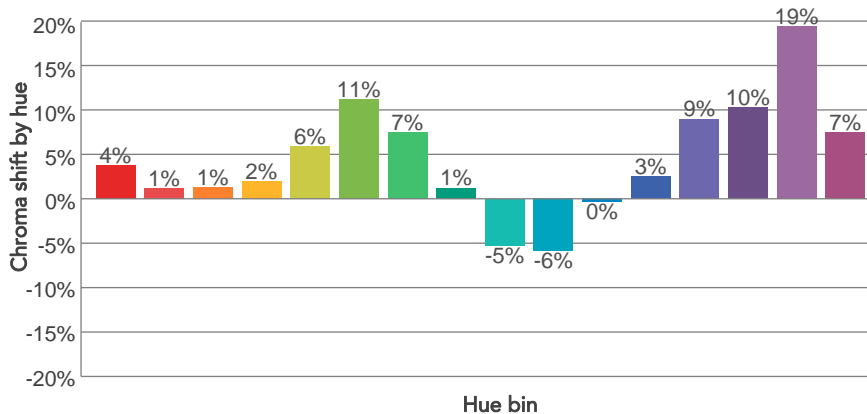
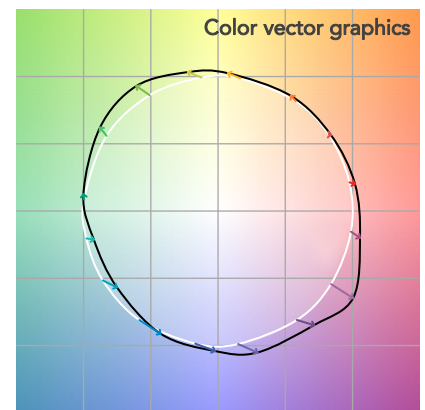
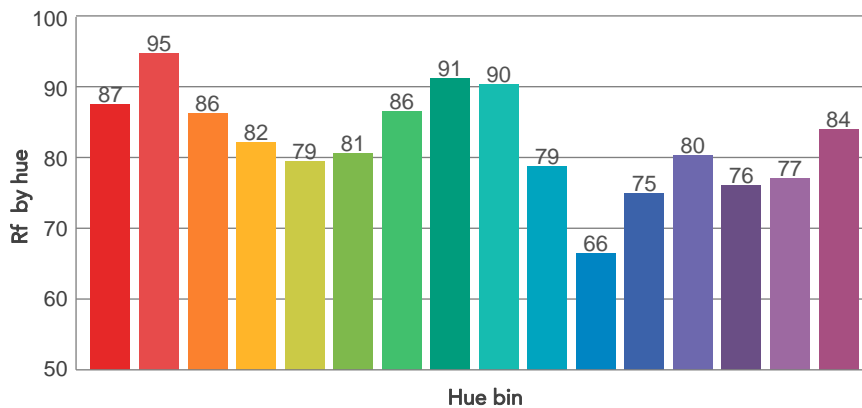
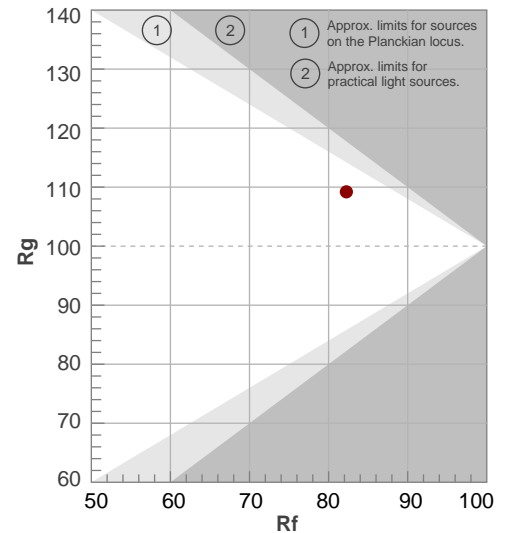
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 5527 K | 85,1 | 56,0 | 82,2 | 109,2 | 86,8 | 82 | 0,332 | 0,336 | -0,0059 |

TM30 DETAILS

Rf 82,2
Fidelity index Rf

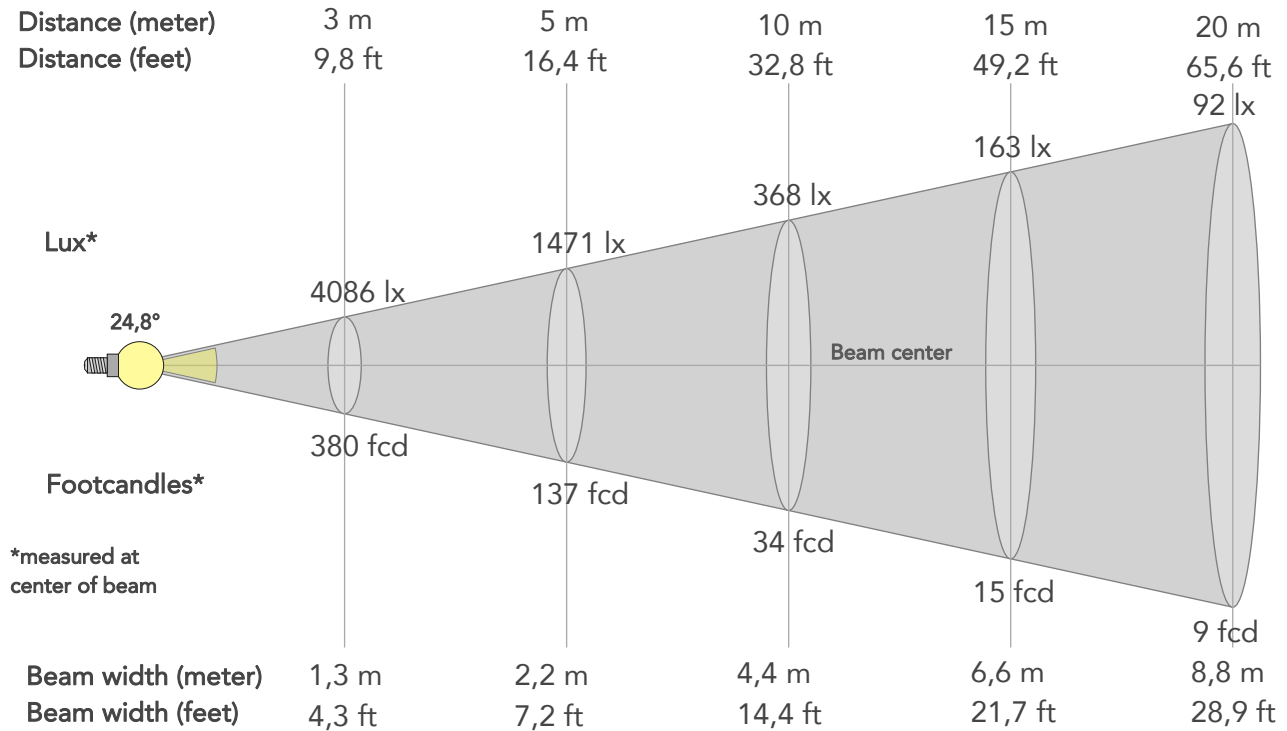
Rg 109,2
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 87 | 4% | -2% |
| 2 | 95 | 1% | -1% |
| 3 | 86 | 1% | 5% |
| 4 | 82 | 2% | 10% |
| 5 | 79 | 6% | 9% |
| 6 | 81 | 11% | 4% |
| 7 | 86 | 7% | -2% |
| 8 | 91 | 1% | -4% |
| 9 | 90 | -5% | 2% |
| 10 | 79 | -6% | 10% |
| 11 | 66 | 0% | 19% |
| 12 | 75 | 3% | 15% |
| 13 | 80 | 9% | 13% |
| 14 | 76 | 10% | 8% |
| 15 | 77 | 19% | 0% |
| 16 | 84 | 7% | -3% |



BEAM DETAILS

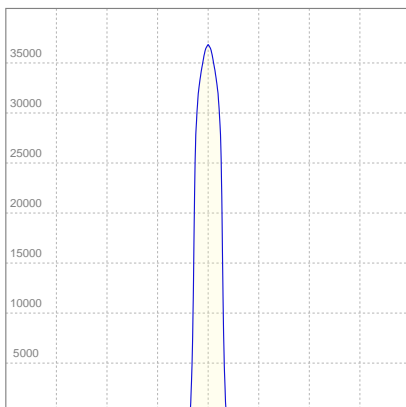
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 24,8° | 29,9° | 31,5° | 96,5% | 96,3% |



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 | 36771lx | 9193lx | 4086lx | 2298lx | 1471lx | 654lx | 368lx | 163lx | 92lx | 59lx | 41lx | 23lx | 15lx |
| Footcand. | 3416fcd | 854fcd | 380fcd | 214fcd | 137fcd | 61fcd | 34fcd | 15fcd | 9fcd | 5fcd | 4fcd | 2fcd | 1fcd |
| Beam wid. | 0,4m | 0,9m | 1,3m | 1,8m | 2,2m | 3,3m | 4,4m | 6,6m | 8,8m | 11m | 13,2m | 17,6m | 22m |
| Beam wid. | 1,5ft | 2,9ft | 4,3ft | 5,8ft | 7,2ft | 10,8ft | 14,4ft | 21,7ft | 28,9ft | 36,1ft | 43,3ft | 57,8ft | 72,2ft |

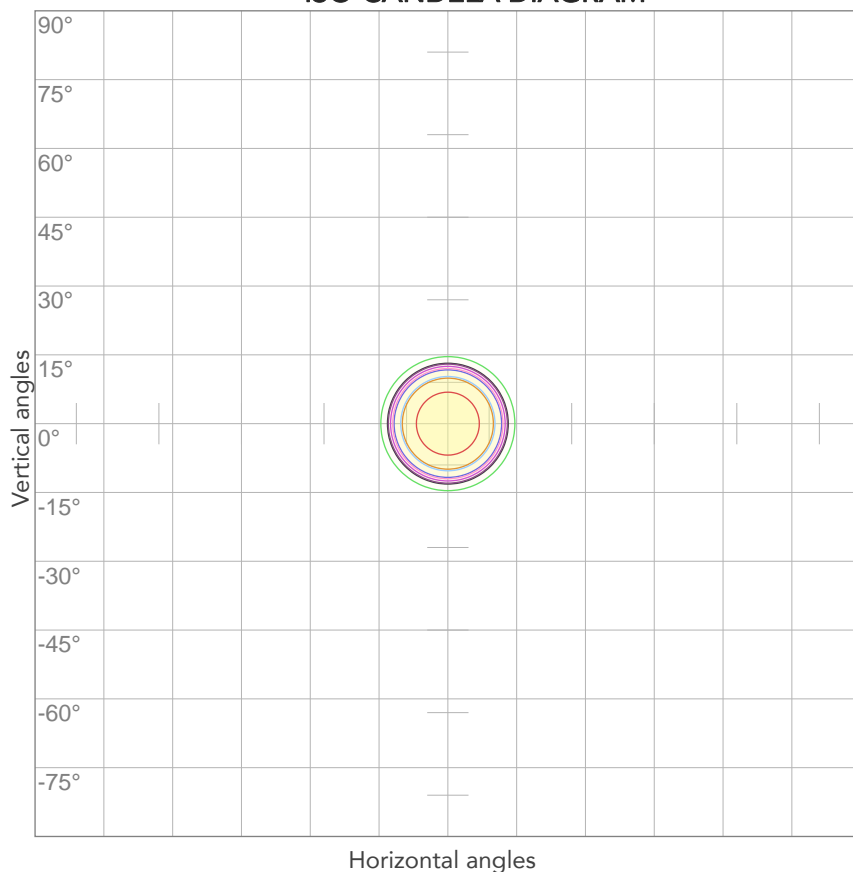
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 224V | 0,773A | 162,3W | 33lm/W |
| Power FC | | | |
| 0,96 | | | |

ISO CANDELA DIAGRAM



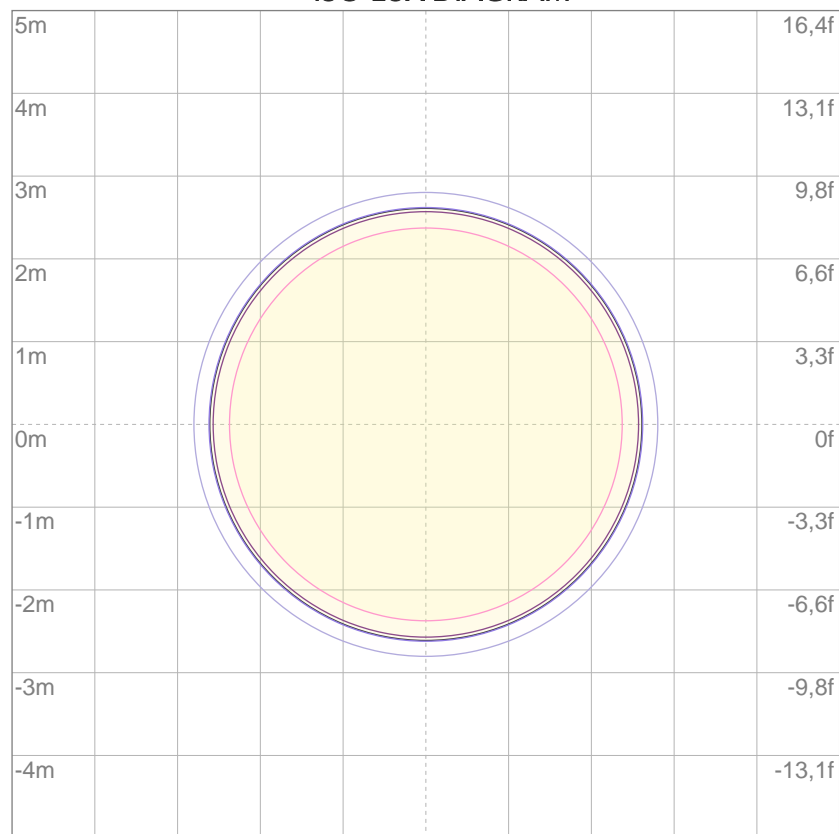
| | |
|-----|----------|
| 10% | 3677 cd |
| 20% | 7354 cd |
| 30% | 11031 cd |
| 40% | 14708 cd |
| 50% | 18385 cd |
| 60% | 22062 cd |
| 70% | 25740 cd |
| 80% | 29417 cd |

Conditions:

Number of c-planes: 2

Candela at center: 36771 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 11,0 lx |
| 5% | 18,4 lx |
| 10% | 36,8 lx |
| 30% | 110 lx |
| 50% | 184 lx |

Conditions:

Number of c-planes: 2

Lux at center: 368 lx

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



Total lumen output:

5452 lm

Peak candela output:

37457 cd

Light quality:

CRI: 85,1

Color temperature:

6132 K

PRODUCT NAME:

ECLFS

MEASURAMENT CONDITIONS:

Beam angle:

PRL26

Target:

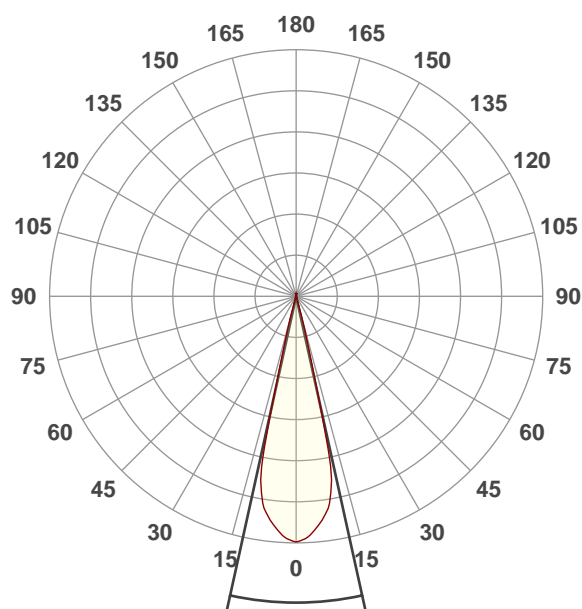
6000K

Operator:

Paolo Carvone

Date and time:

04/03/2020 09:52:46

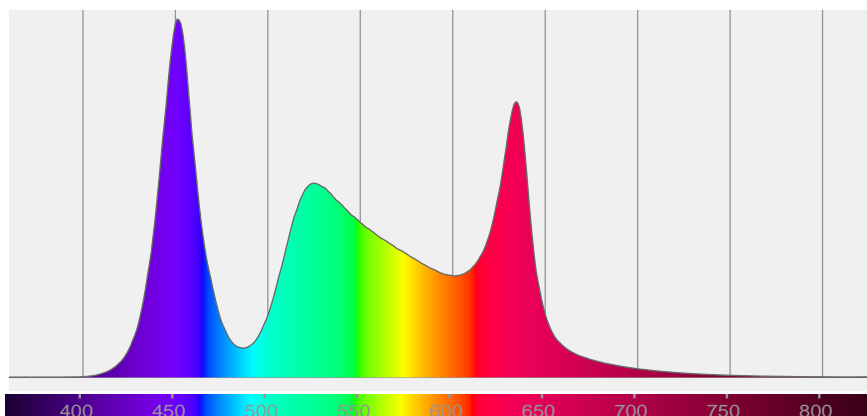


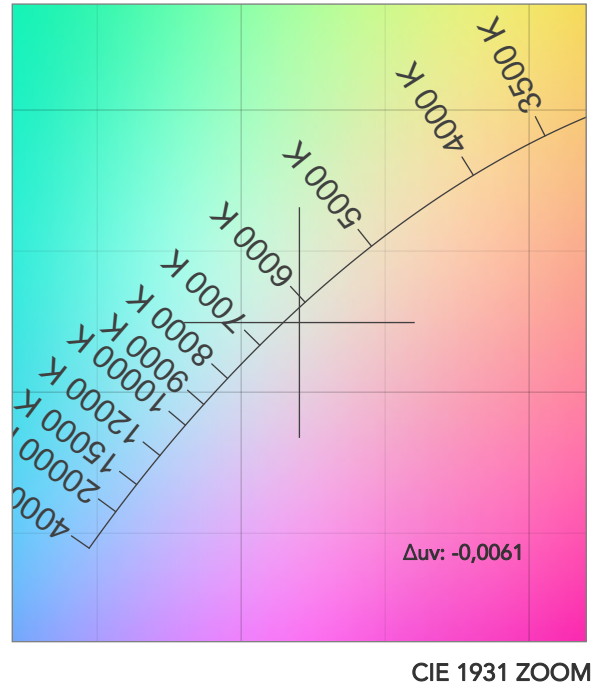
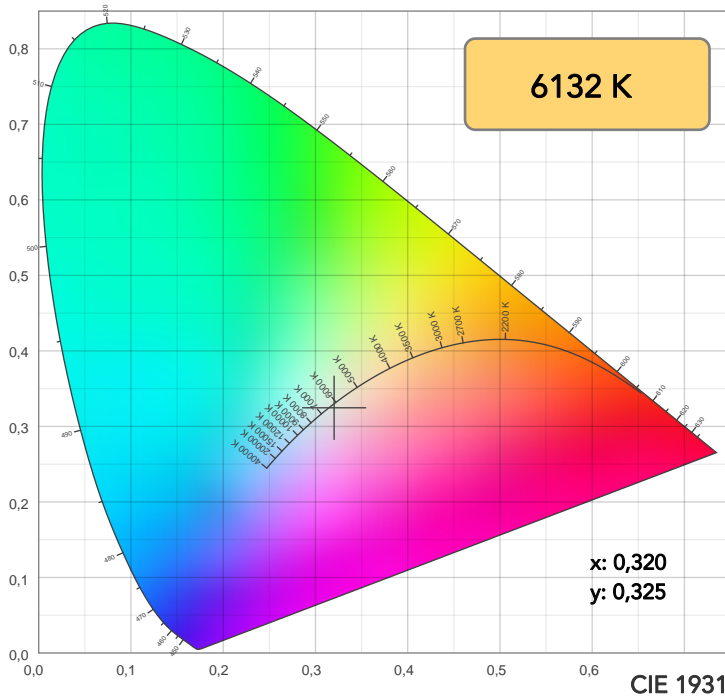
Beam angle 50%: 24,9°

Field angle 10%: 29,8°

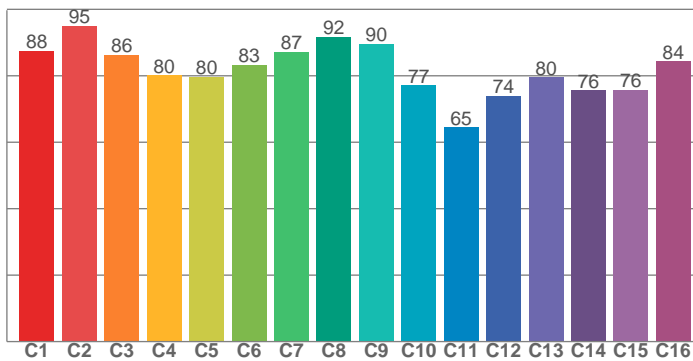
Cut off angle 2.5%: 31,6°

Spectra

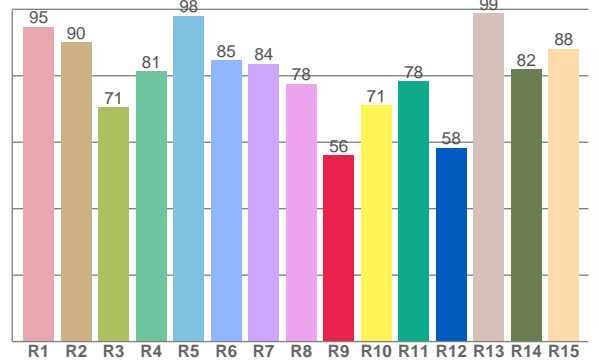




TM30: 81,9



CRI: 85,1 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,7 | 90,1 | 70,6 | 81,3 | 98,1 | 84,6 | 83,7 | 77,6 | 56,0 | 71,1 | 78,4 | 58,4 | 98,8 | 81,9 | 88,1 |

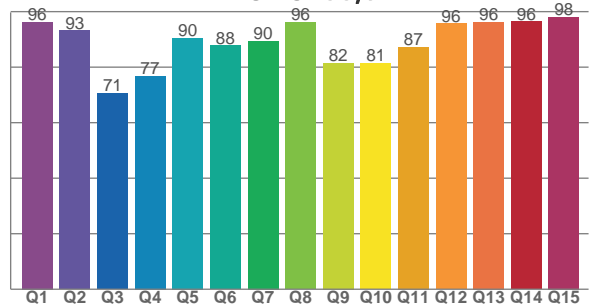
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 87,5 | 95,0 | 86,3 | 80,2 | 79,6 | 83,3 | 87,3 | 91,7 | 89,7 | 77,2 | 64,5 | 73,9 | 79,5 | 75,6 | 75,7 | 84,4 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,2 | 93,2 | 70,6 | 76,8 | 90,4 | 87,7 | 89,5 | 96,1 | 81,5 | 81,4 | 87,3 | 95,7 | 96,2 | 96,5 | 98,1 |

CQS: 86,5



COLOR PARAMETERS

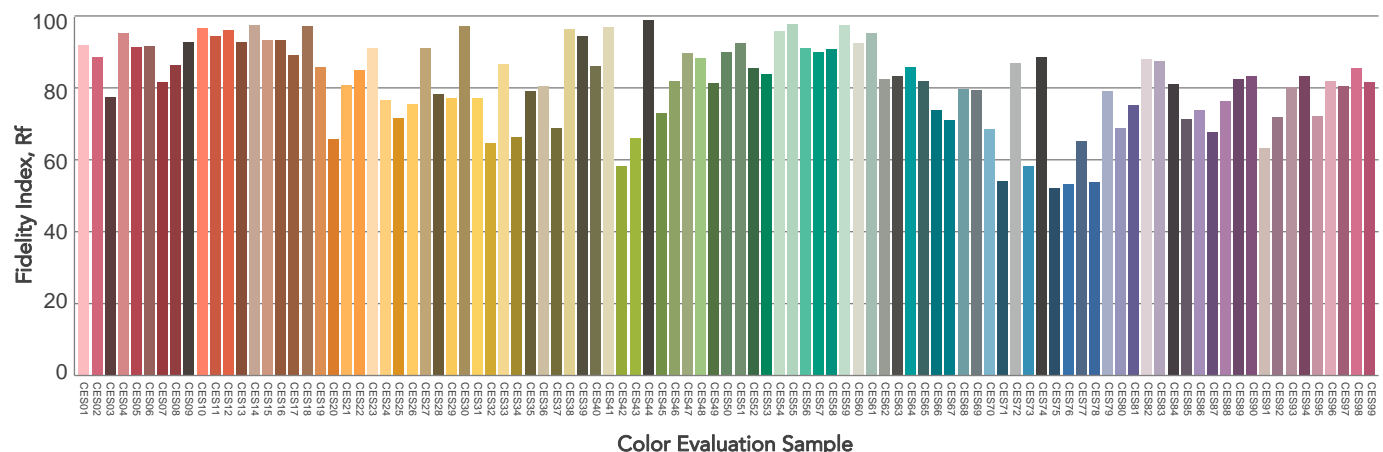
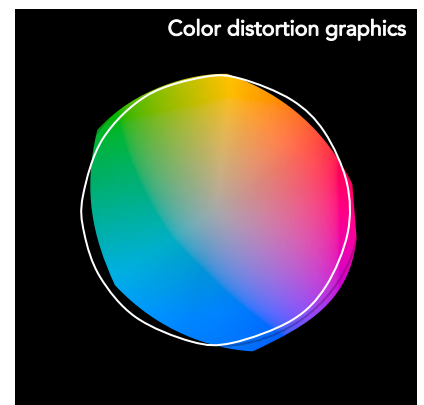
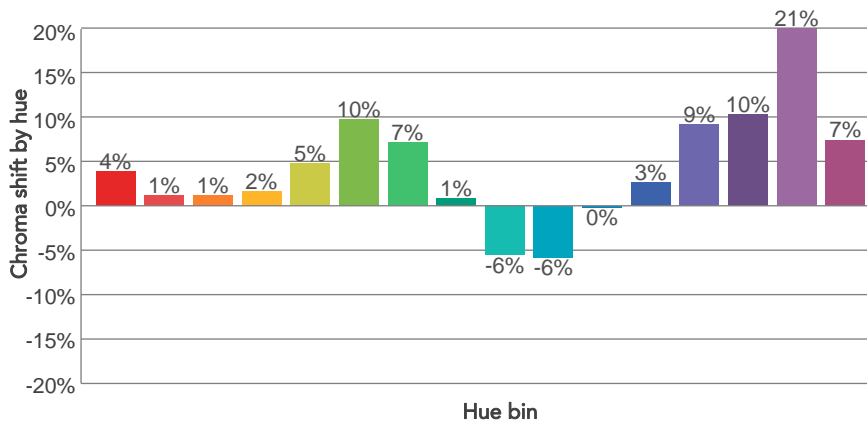
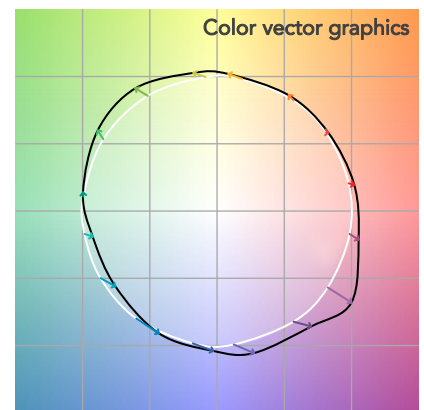
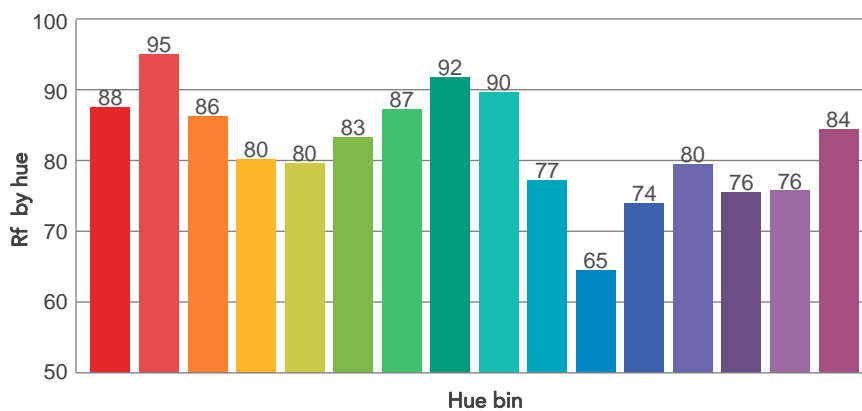
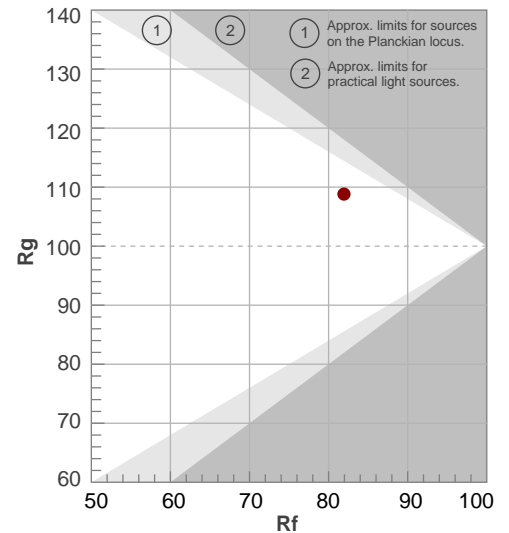
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 6132 K | 85,1 | 56,0 | 81,9 | 108,8 | 86,5 | 83 | 0,320 | 0,325 | -0,0061 |

TM30 DETAILS

Rf 81,9
Fidelity index Rf

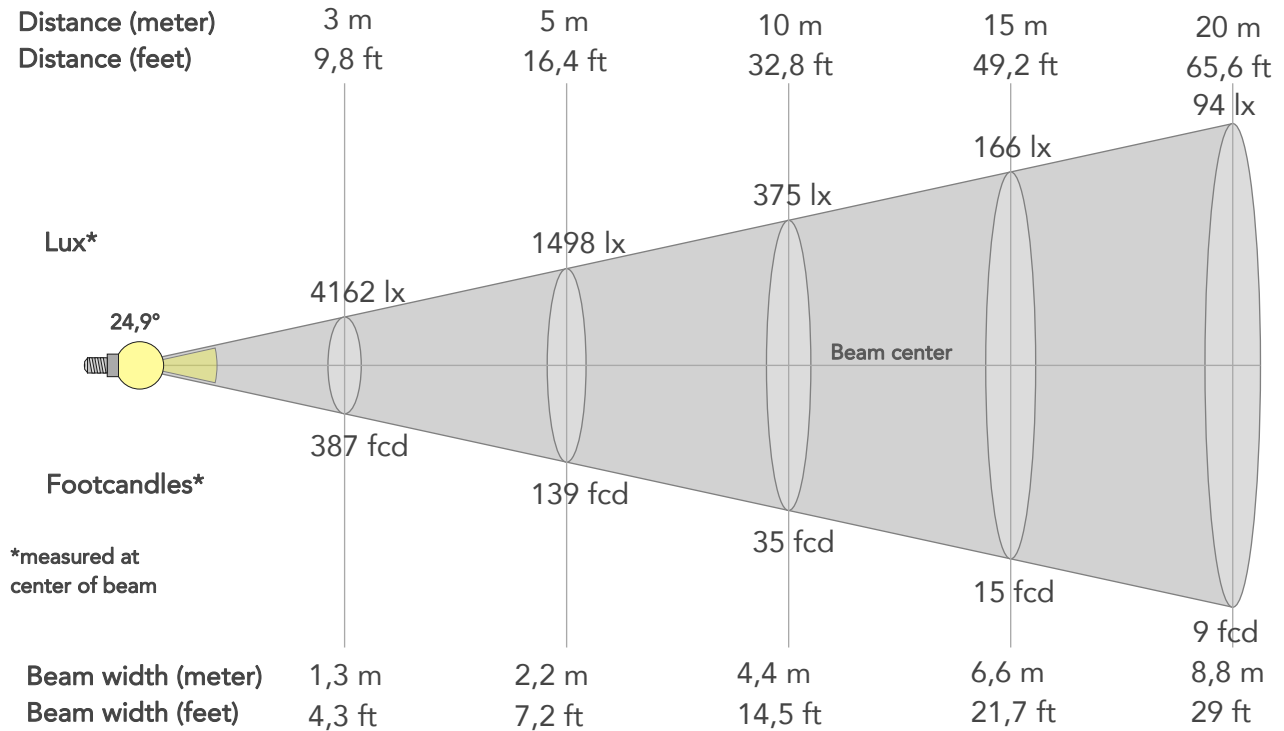
Rg 108,8
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 88 | 4% | -2% |
| 2 | 95 | 1% | -1% |
| 3 | 86 | 1% | 5% |
| 4 | 80 | 2% | 11% |
| 5 | 80 | 5% | 8% |
| 6 | 83 | 10% | 4% |
| 7 | 87 | 7% | -3% |
| 8 | 92 | 1% | -3% |
| 9 | 90 | -6% | 3% |
| 10 | 77 | -6% | 11% |
| 11 | 65 | 0% | 20% |
| 12 | 74 | 3% | 16% |
| 13 | 80 | 9% | 14% |
| 14 | 76 | 10% | 9% |
| 15 | 76 | 21% | 0% |
| 16 | 84 | 7% | -3% |



BEAM DETAILS

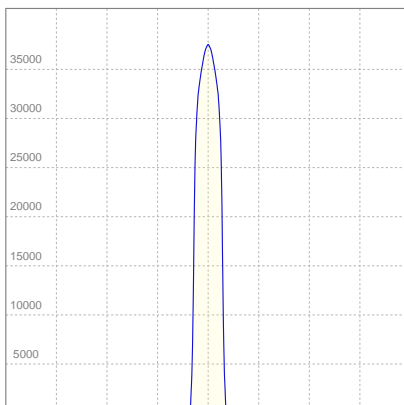
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 24,9° | 29,8° | 31,6° | 96,5% | 96,3% |



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 | 37457lx | 9364lx | 4162lx | 2341lx | 1498lx | 666lx | 375lx | 166lx | 94lx | 60lx | 42lx | 23lx | 15lx |
| Footcand. | 3480fcd | 870fcd | 387fcd | 217fcd | 139fcd | 62fcd | 35fcd | 15fcd | 9fcd | 6fcd | 4fcd | 2fcd | 1fcd |
| Beam wid. | 0,4m | 0,9m | 1,3m | 1,8m | 2,2m | 3,3m | 4,4m | 6,6m | 8,8m | 11m | 13,2m | 17,7m | 22,1m |
| Beam wid. | 1,5ft | 2,9ft | 4,3ft | 5,8ft | 7,2ft | 10,9ft | 14,5ft | 21,7ft | 29ft | 36,2ft | 43,4ft | 57,9ft | 72,4ft |

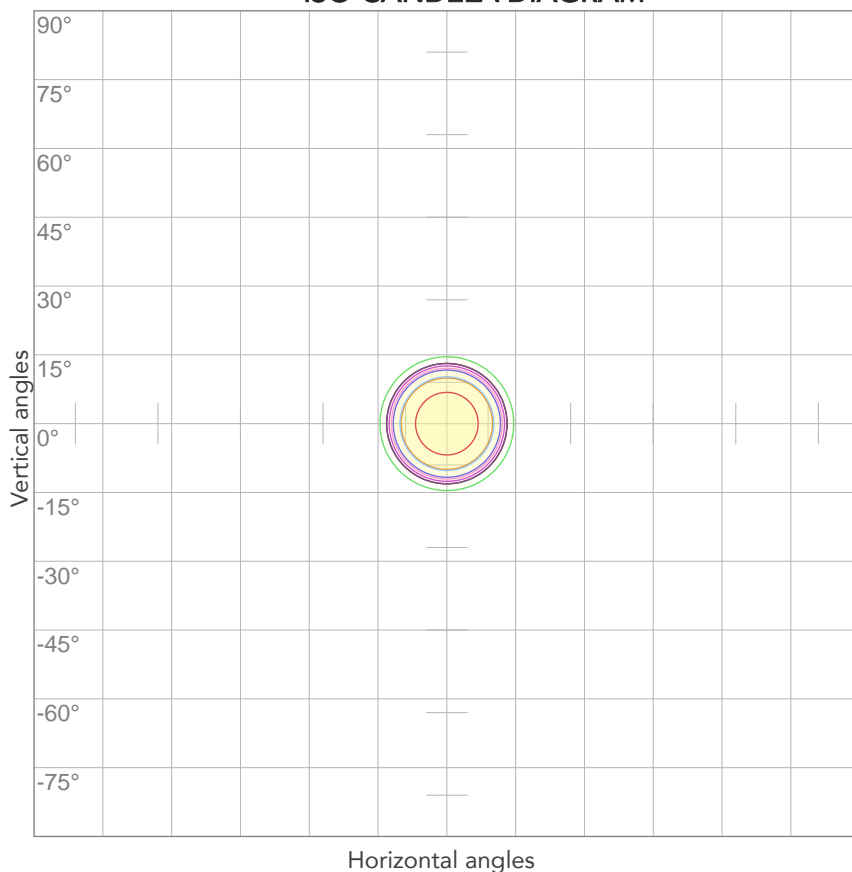
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---------------|---------------|-------------|------------|
| 224V | 0,790A | 166,2W | 33lm/W |
| Power FC | | | |
| 0,96 | | | |

ISO CANDELA DIAGRAM



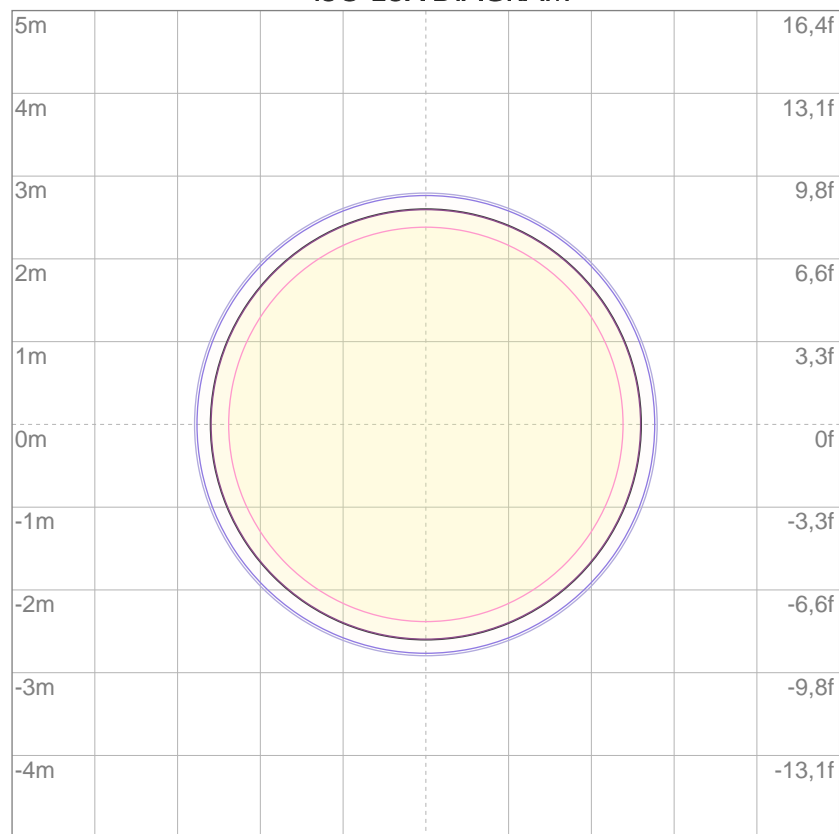
| | |
|-----|----------|
| 10% | 3746 cd |
| 20% | 7491 cd |
| 30% | 11237 cd |
| 40% | 14983 cd |
| 50% | 18729 cd |
| 60% | 22474 cd |
| 70% | 26220 cd |
| 80% | 29966 cd |

Conditions:

Number of c-planes: 2

Candela at center: 37457 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 11,2 lx |
| 5% | 18,7 lx |
| 10% | 37,5 lx |
| 30% | 112 lx |
| 50% | 187 lx |

Conditions:

Number of c-planes: 2

Lux at center: 375 lx

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